

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION

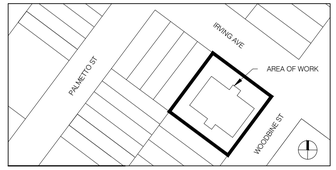
DIVISION OF PUBLIC BUILDINGS

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE
BROOKLYN, NY 11237

ISSUED FOR BID
March 17, 2026

FMS ID Number	LBP21WIBR
Project Title	Washington Irving Branch Library Renovation
Project Location	360 Irving Avenue
Borough	Brooklyn
Sponsor Agency	Brooklyn Public Library (BPL)



Deputy Commissioner of Public Buildings:

Signature Date

Program Director:

Signature Date

ARCHITECT:

NANDINEE PHOOKAN ARCHITECTS PC

45 MAIN STREET, SUITE #620, BROOKLYN,
NY 11201

MEP ENGINEER:

DEWBERRY ENGINEERS INC

5 PENN PLAZA, SUITE 900
NEW YORK, NY 10001-1810

BUILDING ENVELOPE RESTORATION

THE FALCON GROUP

350 SEVENTH AVENUE, SUITE 301,
NEW YORK, NY 10001

CIVIL ENGINEER

DEROSIER ENGINEERING

35 GATES AVENUE, WARREN,
NJ 07059

STRUCTURAL ENGINEERS

LERA CONSULTING STRUCTURAL ENGINEERS

40 WALL STREET, 23RD FLOOR, NEW YORK,
NY,10005

LANDSCAPE ARCHITECT

NV5 NEW YORK

32 OLD SLIP, 4TH FLOOR,
NEW YORK, NY,10005

ACOUSTICS / SECURITY / TELECOM

SHEN MILSOM & WILKE LLC

275 MADISON AVENUE, 14TH FLOOR,
NEW YORK, NY,10005

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G-003.00	EXISTING SITE PLAN & PHOTOS
EN-100.00	ENERGY ANALYSIS
X-001.00	SURVEY

CIVIL

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C-802.00	SCARA PLAN DETAILED SIDEWALK GRADING IRVING AVENUE
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FA-002.00	FIRE ALARM RISER DIAGRAM AND OPERATIONS MATRIX
FA-100.00	FIRE ALARM BASEMENT PLAN
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TY-101.00	SECURITY OVERALL PLAN - BASEMENT
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TY-202.00	SECURITY OVERALL RCP - FIRST FLOOR
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TY-400.00	SECURITY RISERS
TY-401.00	SECURITY DETAILS
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TT-001.00	TELECOM SYMBOLS
TT-101.00	TELECOM OVERALL PLAN - BASEMENT
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TT-201.00	TELECOM OVERALL RCP - BASEMENT
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TT-600.00	TELECOM DETAILS - OUTLETS 1
TT-601.00	TELECOM DETAILS - OUTLETS 2
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TT-603.00	TELECOM DETAILS
TT-604.00	TELECOM DETAILS

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H-004.00	ASBESTOS ABATEMENT MEZZANINE FLOOR PLAN
H-005.00	ASBESTOS ABATEMENT ROOF/SITE PLAN

TOTAL NO. OF SHEETS: 144

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

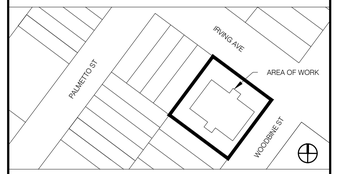
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
DRAWING LIST

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 029818 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	T-002.00
CAD FILE No:	02 OF 30

GENERAL NOTES

1. ALL WORK AND MATERIALS FURNISHED SHALL COMPLY WITH THE CITY OF NEW YORK BUILDING CODE, THE CITY OF NEW YORK FIRE CODE, THE STATE OF NEW YORK REGULATIONS, THE REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, NATIONAL FIRE PROTECTIVE ASSOCIATION REQUIREMENTS AND THE FEDERAL, STATE AND MUNICIPAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

2. THE BUILDING PERMIT SHALL BE SECURED AND POSTED BY THE GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, AND HE SHALL OBTAIN ALL OTHER PERMITS AND APPROVALS AS REQUIRED BY LAW FOR THE COMPLETION OF THE WORK.

3. THE SUBMISSION OF A PROPOSAL BY THE GENERAL CONTRACTOR WILL BE CONSTRUED AS EVIDENCE THAT A CAREFUL AND THOROUGH EXAMINATION OF THE PREMISES HAS BEEN MADE AND LATER CLAIMS FOR LABOR, MATERIALS OR EQUIPMENT REQUIRED OR FOR DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED, IT SHALL ALSO CONSTITUTE A REPRESENTATION THAT THE CONTRACTOR HAS CHECKED AND VERIFIED ALL QUANTITIES, WORK AND MATERIALS INVOLVED AND THAT HE/SHE SHALL TAKE RESPONSIBILITY FOR ANY DEFICIENCIES THEREIN.

4. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, EACH TRADE SHALL VERIFY ALL MEASUREMENTS AT THE BUILDING AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME, NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS: ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION AND CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

5. ALL OF THE ARCHITECTS DRAWINGS AND CONSTRUCTION NOTES ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY EITHER WILL BE BINDING AS IS CALLED FOR BY ALL: ANY WORK SHOWN OR REFERRED TO ON ANY ONE DRAWING SHALL BE PROVIDED AS THOUGH SHOWN ON ALL DRAWINGS, WHENEVER AN ITEM IS SPECIFIED AND / OR SHOWN ON THE DRAWINGS BY DETAIL OR REFERENCE IT SHALL BE CONSIDERED TYPICAL FOR OTHER ITEMS WHICH ARE OBVIOUSLY INTENDED TO BE THE SAME EVEN THOUGH NOT SO DESIGNATED OR SPECIFICALLY NAMED BUT DO SERVE THE SAME FUNCTION.

6. THE WORK TO BE PERFORMED CONSISTS OF FURNISHING ALL LABOR EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, FEES, MATERIALS, AND SERVICES IN ACCORDANCE WITH THESE NOTES AND DRAWINGS AND PERFORMING ALL OPERATIONS NECESSARY TO CONSTRUCT AND INSTALL COMPLETE AND IN SATISFACTORY CONDITION THE VARIOUS MATERIALS AND EQUIPMENT AT THE LOCATIONS SHOWN, AND IN CONFORMITY WITH THE DIMENSIONS, DESIGN AND DETAILS SHOWN. IT IS INTENDED THAT THE DRAWINGS INCLUDE EVERYTHING REQUISITE AND NECESSARY TO FINISH THE ENTIRE WORK PROPERLY, NOTWITHSTANDING THE FACT THAT EVERY ITEM NECESSARILY INVOLVED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. ANY ITEM WHICH MAY BE REASONABLY CONSTRUED AS INCIDENTAL TO THE PROPER AND SATISFACTORY COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THESE NOTES AND DRAWINGS IS HEREBY INCLUDED.

7. THE CONTRACTOR SHALL ABIDE BY AND COMPLY WITH TRUE INTENT AND MEANING OF THE DRAWINGS AND NOTES TAKEN AS A WHOLE AND SHALL NOT AVAIL HIMSELF/ HERSELF OF ANY OBVIOUS ERRORS OR OMISSIONS, SHOULD ANY EXIST. SHOULD ANY ERROR OR DISCREPANCY APPEAR OR ANY DOUBT ARISE AS TO THE TRUE MEANING OF THE DRAWINGS OR NOTES, THE CONTRACTOR SHALL BRING SUCH ITEMS TO THE ATTENTION OF THE ARCHITECT BEFORE SUBMISSION OF PROPOSAL FOR EXPLANATION OR CORRECTION OF SAME, AFTER THE SUBMISSION OF PROPOSAL, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL SUCH ITEMS.

8. THE STANDARD SPECIFICATIONS OF THE MANUFACTURES APPROVED FOR USE IN THE PROJECT ARE HEREBY MADE A PART OF THESE NOTES WITH THE SAME FORCE AND EFFECT AS THOUGH HEREIN WRITTEN OUT IN FULL, EXCEPT THAT WHEREVER THE DRAWINGS REQUIRE HEAVIER MEMBERS, BETTER QUALITY MATERIALS OR ARE OTHERWISE MORE STRINGENT, THERE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

9. THE GENERAL CONTRACTOR SHALL COORDINATE AND SUPERVISE THE WORK OF ALL CONTRACTORS AND SUB-CONTRACTORS. HE/ SHE SHALL BE RESPONSIBLE FOR GIVING ALL TRADES SUCH INFORMATION, PLANS OR DETAILS AS MAY BE REQUIRED FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK. ALL MATERIALS SHALL BE ORDERED SUFFICIENTLY AHEAD OF TIME SO THAT WORK CAN PROCEED IN SCHEDULE. NO SUBSTITUTIONS WILL BE ACCEPTED BECAUSE OF FAILURE TO DO SO.

10. THE CONTRACTOR SHALL SUBMIT ALL FABRICATION SHOP DRAWINGS, SAMPLES, AND FIXTURE CUTS FOR THE OWNER OR ARCHITECT'S REVIEW AS REQUIRED AND/OR INDICATED ON THE DRAWINGS. THE ARCHITECT'S OR OWNER'S REVIEW DOES NOT RELIEVE THE CONTRACTORS FROM RESPONSIBILITY TO COORDINATE ALL TRADES AND TO CHECK QUANTITIES AND DIMENSIONS AGAINST CONDITIONS IN THE FIELD. CONTRACTORS AND ENGINEERS SHALL ASSUME RESPONSIBILITY FOR ALL ERRORS ON THEIR DRAWINGS.

11. ALL MATERIALS REQUIRED FOR THE PERFORMANCE OF THIS CONTRACT SHALL BE NEW AND OF THE BEST QUALITY OF KINDS SPECIFIED, ALL SUBJECT TO THE APPROVAL OF THE ARCHITECT. MATERIALS SHALL BE USED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

12. FOR THE EXECUTION OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT AND FOR THE MANUFACTURE OR TRANSPORTATION OF ANY OF THE MATERIALS OR APPLIANCES TO BE USED OR INSTALLED, THE CONTRACTOR SHALL EMPLOY ONLY SUCH LABOR THROUGHOUT AS WILL NOT INTERFERE WITH THE SPEEDY AND UNINTERRUPTED COMPLETION OF THE PROJECT. ALL WORK SHALL BE DONE BY MECHANICS SKILLED IN THEIR TRADE AND SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST TRADE PRACTICES.

13. ANY MATERIALS DELIVERED, OR WORK PERFORMED, CONTRARY TO THE DRAWINGS AND SPECIFICATIONS AND APPROVED SHOP DRAWINGS SHALL BE REMOVED BY THE CONTRACTOR AT HIS OWN EXPENSE AND THE SAME SHALL BE REPLACED WITH OTHER MATERIALS OR WORK SATISFACTORY TO THE ARCHITECT. THE CONTRACTOR SHALL ALSO ASSUME THE COST OF REPLACING THE WORK WHICH MAY BE DISTURBED.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY AND ACCURATELY LAYING OUT THE WORK FOR THE LINES AND MEASUREMENTS HEREIN, HE SHALL ESTABLISH NECESSARY REFERENCE LINES AND PERMANENT BENCH MARKS FROM WHICH BUILDING LINES AND ELEVATIONS SHALL BE TAKEN, HEIGHTS OF ALL WORK CALLED FOR (A.F.S.) INCLUDING BUT NOT LIMITED TO SOFFITS, CEILINGS, DOORS AND FRAMES SHALL BE TRUE AND LEVEL WITHIN A MAXIMUM TOLERANCE OF 1/8" TH INCH OVERALL.

15. THE PREMISES AND THE JOB SITE SHALL BE MAINTAINED IN REASONABLY NEAT AND ORDERLY CONDITION AND KEPT FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH DURING THE ENTIRE CONSTRUCTION PERIOD. REMOVE CRATES, CARTONS AND OTHER FLAMMABLE WASTE MATERIALS OR TRASH FROM THE WORK AREA AT THE END OF EACH WORKING DAY..

16. CARE SHALL TAKE BY WORKERS NOT TO MARK, SOIL OR OTHERWISE DEFACE FINISHED SURFACES, IN THE EVENT THAT FINISHED SURFACES BECOME DEFACED, CLEAN AND RESTORE SUCH SURFACES TO THEIR ORIGINAL CONDITION.

17. CLEAN UP IMMEDIATELY UPON COMPLETION OF EACH TRADE'S WORK.

18. CLEAN AREAS OF THE BUILDING IN WHICH PAINTING AND FINISHING WORK IS TO BE PERFORMED JUST PRIOR TO THE START OF THE WORK AND MAINTAIN THESE AREAS IN SATISFACTORY CONDITION FOR PAINTING AND FINISHING.

19. DO ALL OTHER CLEANING AS REQUIRED TO TURN THE PREMISES OVER TO THE OWNER IN A SPOTLESS AND ORDERLY CONDITION.

20. THE GENERAL CONTRACTOR SHALL KEEP THE ARCHITECT INFORMED OF THE PROGRESS OF HIS WORK. NO WORK SHALL BE CLOSED OR COVERED UNTIL IT HAS BEEN DULY INSPECTED AND APPROVED. SHOULD UNINSPECTED WORK BE COVERED, THE CONTRACTOR SHALL AT HIS OWN EXPENSE, UNCOVER ALL SUCH WORK SO THAT IT CAN BE PROPERLY INSPECTED AND AFTER SUCH INSPECTION HE SHALL PROPERLY REPAIR AND REPLACE ALL WORK INTERFERED WITH.

21. ALL WORK SHALL BE SUBJECT TO FINAL INSPECTION BY ARCHITECT AND ACCEPTANCE BY THE COMMISSIONER.

22. ALL SUCH MATERIALS OR PROCEDURES DESIGNATED FOR "CONTROLLED INSPECTIONS", SHALL BE INSPECTED BY THE ARCHITECT OR ENGINEER RETAINED BY THE OWNER. THIS ARCHITECT SHALL FILE COPIES OF ALL REQUIRED INSPECTIONS TOGETHER WITH HIS SIGNED STATEMENT THAT THE WORK COMPLIES AS REQUIRED.

BUILDING CODE NOTES

1. ALL REFERENCES TO THE "BUILDING CODE" OR "THE CODE" SHALL REFER TO THE PRIOR TO THE 1968 BUILDING CODE UNLESS OTHERWISE STATED.

2. CONTRACTORS SHALL COMPLY WITH ALL REQUIREMENTS OF NEW YORK CITY BUILDING CODES, STATE LABOR LAW, AND ALL REGULATIONS OF NEW YORK CITY AND STATE. ALL PERMITS SHALL BE PROPERLY DISPLAYED.

3. MEANS OF EGRESS SHALL BE KEPT UNOBSTRUCTED AT ALL TIMES.

4. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING CODE. ALL ASSEMBLIES AND EQUIPMENT TO BE AS ACCEPTED BY THE N.Y.C. BOARD OF STANDARD AND APPEALS. MECHANICAL EQUIPMENT TO BE MEA APPROVED.

5. DOORS AND ASSEMBLIES SHALL HAVE FIRE-RESISTIVE RATINGS AS REQUIRED BY CODE. ALL FIRE RATED DOORS SHALL BEAR A LABEL INDICATING SAME TYPE AS APPROVED BY BOARD OF STANDARD AND APPEALS OR M.E.A.

6. EXIT LIGHTS AND SIGNALS SHALL BE PROVIDED AT ALL REQUIRED EXITS TO COMPLY WITH THE NYC BUILDING CODE.

7. ALL FINISHES SHALL COMPLY WITH THE NYC BUILDING CODE.

8. KEY PLAN SHOWN ARE TO BE USED FOR GENERAL PROPERTY FAMILIARIZATION ONLY.

9. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/ HERSELF WITH REQUIREMENTS OF SAFETY MEASURES AND STANDARDS AND SHALL BE HELD RESPONSIBLE FOR SAFE MAINTENANCE UNTIL COMPLETION AND FINAL ACCEPTANCE OF WORK.

10. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, BARRICADES, AND TEMPORARY PARTITIONS TO ACCOMPLISH ALL WORK IN AN APPROVED MANNER.

11. AT LEAST 24 HOURS WRITTEN NOTICE SHALL BE GIVEN BEFORE COMMENCEMENT OF WORK PER SECTION.

12. ALL FIRE STOPPING AT PENETRATIONS IN FIRE RATED FLOOR AND WALL SEPARATIONS SHALL BE 2HR RATED.

13. ALL WOOD SHALL BE FIRE TREATED.

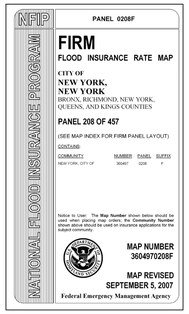
14. ALL HARDWARE SHALL CONFORM WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN & ICC A117.1-09 ACCESSIBILITY REQUIREMENTS.

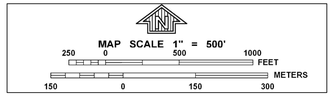
15. ALL WORK AND MATERIALS FURNISHED SHALL COMPLY WITH THE CITY OF NEW YORK BUILDING CODE, THE CITY OF NEW YORK FIRE CODE, THE STATE OF NEW YORK REGULATIONS, THE REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, NATIONAL FIRE PROTECTIVE ASSOCIATION REQUIREMENTS AND THE FEDERAL, STATE AND MUNICIPAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

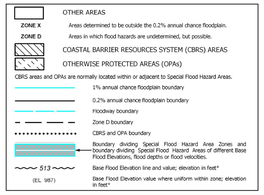
16. THE BUILDING PERMIT SHALL BE SECURED AND POSTED BY THE GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, AND HE SHALL OBTAIN ALL OTHER PERMITS AND APPROVALS AS REQUIRED BY LAW FOR THE COMPLETION OF THE WORK.

FEMA





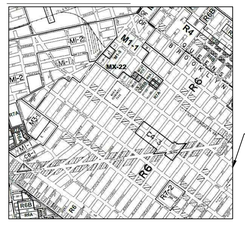




THE SITE IS NOT IN A FLOOD ZONE. IT IS LOCATED IN ZONE X "AREA DETERMINED TO BE OUTSIDE FHT 0.2% ANNUAL CHANCE FLOOD PLAIN"

ZONING / BUILDING INFORMATION

ZONING MAP



SITE
360 IRVING AVENUE, BROOKLYN
NEW YORK 11237

NO CHANGE IN USE, OCCUPANCY OR EGRESS

ZONING / BUILDING SUMMARY

- BLOCK # 3362
- LOT # 32
- MAP # 13B
- ZONING DISTRICT : R-6
- LOT AREA : 10,000 SF
- LOT DIMENSIONS : 100 FT x 100 FT
- NO. OF FLOORS : 1+BASEMENT
- ZONING USE GROUP : 3 COMMUNITY FACILITIES
- OCCUPANCY CLASS:PUBLIC BUILDING [1938 BUILDING CODE]
  GROUP B-BUILDING [2022 BUILDING CODE]

ZONING ANALYSIS

PERMITTED OBSTRUCTIONS IN REQUIRED YARDS OR REAR YARD EQUIVALENTS *SECTION: 24-33 (a) (3)* COMPLIANT: Y
ENERGY INFRASTRUCTURE EQUIPMENT AND ACCESSORY, MECHANICAL EQUIPMENT ,SUBJECT TO THE REQUIREMENTS SET FORTH IN SECTION 23-442 (SEE BELOW)

ADDITIONAL PERMITTED OBSTRUCTIONS *SECTION: 23-442 (a) (7)* COMPLIANT: Y
ENERGY INFRASTRUCTURE EQUIPMENT AND ACCESSORY MECHANICAL EQUIPMENT, PROVIDED THAT:
(i)ALL INFRASTRUCTURE SHALL BE SUBJECT TO THE APPLICABLE PROVISIONS OF SECTION 26-60 (SEE BELOW)
(ii)(a) THE SIZE OF ALL THE EQUIPMENT, INCLUDING ANY SCREENING OR PORTIONS OF ANY BUILDING OR OTHER STRUCTURE ENCLOSING SUCH EQUIPMENT, SHALL NOT EXCEED AN AREA EQUIVALENT TO 25 PERCENT OF A REQUIRED YARD, OR REAR YARD EQUIVALENT, AND IN ADDITION, IN FRONT YARDS, IS LIMITED TO AN AREA NOT EXCEEDING 25 SQ FT.
AREA OF REAR YARD: 1879.5 SF
AREA OF MECHANICAL EQUIPMENT AND SCREENS: 181 SF [71SF + 110 SF]= 9.6%
(ii)(c) IN R6 THROUGH R10 DISTRICTS, A HEIGHT OF 15 FEET ABOVE THE ADJOINING GRADE;
HEIGHT OF SCREEN : 8'-0"

SPECIAL AT-GRADE SCREENING AND ENCLOSURE PROVISIONS *SECTION: 26-61 (d) (2)* COMPLIANT: Y
(d)(2)A STRIP AT LEAST FOUR FEET WIDE AND DENSELY PLANTED WITH VEGETATION THAT, AT THE TIME OF PLANTING ARE AT LEAST HALF AS TALL IN HEIGHT AS THE SCREEN REQUIRED BY PARAGRAPH (1), AND ARE OF A TYPE WHICH MAY BE EXPECTED TO FORM A YEAR-ROUND DENSE SCREEN AT LEAST SIX FEET HIGH WITHIN THREE YEARS.
MECHANICAL EQUIPMENT IS LOCATED MORE THAN 15 FEET FROM THE ZONING LOT LINE. HOWEVER, PLANTINGS COMPLYING WITH 26-61 (d)(2) ARE PROPOSED.

DOB APPROVAL STAMP

SCOPE OF WORK

THE WASHINGTON IRVING BRANCH LIBRARY, BUILT IN 1923, IS A ONE STORY BRICK BUILDING WITH MEZZANINE AND A BASEMENT, LOCATED AT 360 IRVING AVENUE, BROOKLYN, NY.

THE SCOPE OF WORK INCLUDES REPLACEMENT OF THE ENTRY STAIR WITH NEW GUARDRAILS AND HANDRAILS, NEW WROUGHT IRON FENCE AT THE FRONT OF THE BUILDING ,PARTIAL INTERIOR RENOVATION FOR NYC CODE AND ADA COMPLIANCE ON THE FIRST FLOOR AND BASEMENT.

RELATED DOB APPLICATIONS:

ARCHITECTURAL	[B01153436-I1]
FACADE	[B01099738-I1]
MECHANICAL	[B01108228-I1]
PLUMBING	[B01108230-I1]
STRUCTURAL	[B01153436-I1]
CIVIL	[B01235555-I1]

SPECIAL & PROGRESS INSPECTIONS :

SPECIAL INSPECTIONS:
FIRE - RESISTANT PENETRATIONS AND JOINTS BC 1704.27

PROGRESS INSPECTIONS:
FIRE - RESISTANT RATED CONSTRUCTION BC110.3.4

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

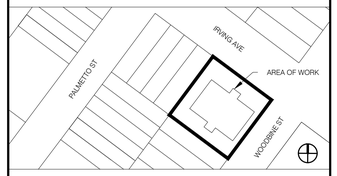
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

NYC DDC Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
GENERAL NOTES, PLOT PLAN AND FEMA MAPS

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 025726 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	G-001.00
CAD FILE No:	

SYMBOL LEGEND

- WINDOW TYPE. SEE WINDOW SCHEDULE.
- DOOR TYPE. SEE DOOR AND HDWR. SCHEDULE.
- KEY NOTE SYMBOL. SEE DEMOLITION NOTES.
- APPLIANCE SYMBOL. SEE APPLIANCE SCHEDULE.
- PARTITION CONSTRUCTION TYPE. SEE FINISH SCHEDULE
- WALL FIXTURE TYPE
- GRID REFERENCE
- SECTION NUMBER/SHEET NUMBER
- INTERIOR ELEVATION NUMBER/ SHEET NUMBER
- DETAIL NUMBER/SHEET NUMBER
- ALL INTERIOR ELEVATIONS DETAIL NUMBERS/ SHEET NUMBER
- DENOTES NORTH TO PART OF, OR THE WHOLE DRAWING.
- DENOTES SCALE TO PART OF, OR THE WHOLE DRAWING.
- ROOM NAME & NUMBER
- ELEVATION DATUM LINE
- DENOTES PLATE
- CENTER LINE
- DIMENSION TO FACE OF FINISH
- DIMENSION TO CENTER LINE
- ALIGN
- CUT LINE
- EXISTING
- DENOTES REVISIONS TO PART OF, OR THE WHOLE DRAWING.
- DENOTES WORKING POINT OR START POINT
- DENOTES PROPERTY LINE
- DENOTES SETBACK OR BOUNDARY LINES
- DENOTES CENTER LINE, EXT. ELEV. LINES
- DENOTES HIDDEN, FUTURE OR EXST. CONST. TO BE REMOVED
- DEDICATED OUTLET (COORD. W/ APPLIANCE SCHEDULE)
- DUPLEX OUTLET
- DUPLEX FLOOR OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- ELECTRICAL SWITCH
- ELECTRICAL SWITCH W/ OCCUPANCY SENSOR
- WALL MOUNTED DIMMER SWITCH

FINISH LEGEND

- FINISH TYPE. SEE FINISH SCHEDULE.
  - F: FLOOR
  - W: WALL
  - C: CEILING
- CPT VCT — DENOTES CHANGE IN FLOOR FINISH MATERIAL
- STARTING POINT
- REDUCER STRIP
- INDICATES EXTENT OF FINISHES

SECURITY LEGEND

- CR — CARD READER
- DR — WALL MOUNTED DOOR RELEASE REQUEST TO EXIT BUTTON
- DR — DESK MOUNTED DOOR RELEASE REQUEST TO EXIT BUTTON
- PB — DESK MOUNTED PANIC BUTTON
- PB — WALL MOUNTED PANIC BUTTON
- KP — KEY PAD CONTROLLED ACCESS
- EL — ELECTRIC LOCK
- DC — DOOR CONTACT
- TH — TRANSFER HINGE
- FS — FAIL SAFE LOCK TIED TO FIRE ALARM
- ML — MAGNETIC LOCK
- RX — REQUEST TO EXIT
- S — ELECTROMAGNETIC LOCK BY-PASS KEY SWITCH

FIRE ALARM LEGEND

- MANUAL PULL STATION
- RECESSED STROBE LIGHT
- FW — FIRE WARDEN STATION
- F — WALL MOUNTED FIRE ALARM SPEAKER
- F — RECESSED COMBINATION SPEAKER/STROBE DEVICE
- RECESSED CEILING MOUNTED FIRE ALARM SPEAKER

REFLECTED CEILING PLAN LEGEND

- ACOUSTICAL CEILING TILE
- GYPSUM BOARD CEILING OR SOFFIT
- ACCESS DOOR
- CONCEALED SPRINKLER HEAD
- RECESSED RETURN AIR GRILLE
- RECESSED SUPPLY AIR DIFFUSER
- CLG HT XXX — DENOTES FINISH CEILING HEIGHT
- TV — WALL MOUNTED TELEVISION, PROVIDE BLOCKING AS REQUIRED
- LD — NEW SLOT LINEAR DIFFUSER (SEE MECHANICAL DRAWINGS FOR SUPPLY/RETURN AIR DESIGNATION)
- WS — WINDOW SHADE (MANUAL OR MOTORIZED)
- EXIT SIGN - CEILING MOUNTED (DIRECTIONAL)
- EXIT SIGN - WALL MOUNTED
- SP — CEILING GRID START POINT
- DENOTES CHANGE IN CEILING HEIGHT
- CEILING MOUNTED SECURITY CAMERA
- MS — RECESSED PROJECTION SCREEN
- S — RECESSED SPEAKER
- SD — SMOKE DETECTOR
- SD/CO — COMBO SMOKE & CARBON MONOXIDE DETECTOR
- HEAT SENSOR

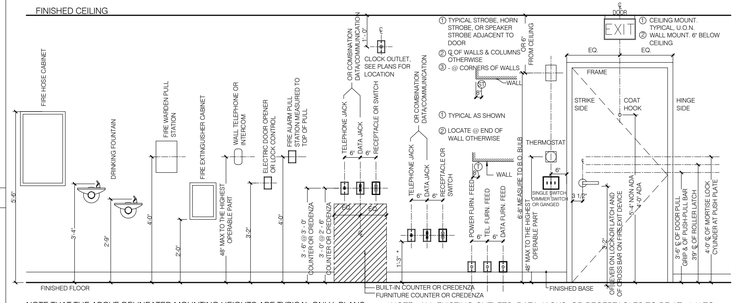
MATERIAL SYMBOLS LEGEND

- G.W.B.
- INSULATION, BATT
- GLASS
- CONCRETE
- PLASTIC
- NEW CONSTRUCTION
- PLYWOOD
- STONE
- INSULATION, RIGID
- WOOD
- STEEL
- WOOD, BLOCKING
- MARBLE OR GRANITE
- ACOUSTICAL TILE
- CERAMIC TILE
- RESILIENT TILE
- PLASTIC LAMINATE

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	HVAC	HEATING, VENTILATION & AC
ADJ.	ADJACENT	IN.	INCH
AFF	ABOVE FINISHED FLOOR	INST.	INSTALLED
ALUM.	ALUMINUM	J-BOX	JUNCTION BOX
APPROX.	APPROXIMATE, APPROXIMATELY	JC	JANITORS CLOSET
B.	BALCONY	JT(S).	JOINT(S)
BD.	BOARD	K	KITCHEN
BDR.	BEDROOM	KD	KNOCK DOWN
BLDG.	BUILDING	LAM.	LAMINATE
BLKG	BLOCKING	LIN.	LINEN CLOSET
BM.	BEAM	LVL.	LEVEL
B.O.	BOTTOM OF	LOC(S).	LOCATIONS
BOT.	BOTTOM	LT.	LIGHT
BR	BROOM CLOSET	MANUF.	MANUFACTURER
C.J.	CONTROL JOINT	MAX.	MAXIMUM
CL.	CLOSET	MDF	MEDIUM DENSITY FIBERBOARD
C.L.	CENTERLINE	MEP	MECHANICAL/ELECTRICAL/PLUMBING
CPT	CARPET	MIN.	MINIMUM
CAB(S).	CABINET (S), CABINETRY	MISC.	MISCELLANEOUS
CLG.	CEILING	M.O.	MASONRY OPENING
CLO.	CLOSET	M.R.	MOISTURE RESISTANT
CLR.	CLEAR	MTD.	MOUNTED
CFL	COMPACT FLOURESCENT LIGHT	MT.	METAL
CMU	CONCRETE MASONRY UNIT	N/A	NOT APPLICABLE
COL.	COLUMN	N.I.C.	NOT IN CONTRACT
CONC.	CONCRETE	NO.	NUMBER
CONST.	CONSTRUCTION	NTS	NOT TO SCALE
CONT.	CONTINUOUS	O.C.	ON CENTER
CTRL.	CONTROL	O.D.	OVERFLOW DRAIN
CT	CERAMIC TILE	OPNG.	OPENING
DEPT.	DEPARTMENT	OPP.	OPPOSITE
DTL	DETAIL	PART.	PARTITION
DF.	DRINKING FOUNTAIN	P.LAM.	PLASTIC LAMINATE
DIA.	DIAMETER	PLYWD.	PLYWOOD
DIFF(S)	DIFFUSER(S)	PT.	POINT
DIM(S).	DIMENSION(S)	PTD.	PAINTED
DIST.	DISTANCE	RAD.	RADIUS
DN	DOWN	RB	RUBBER BASE
D.O.	DOOR OPENING	R.D.	ROOF DRAIN
DR.	DOOR	REF.	REFERENCE
DSP	DRY STAND PIPE	REINF.	REINFORCED, REINFORCING
DWG(S).	DRAWINGS	RELOC.	RELOCATED
ELEC.	ELECTRICAL	REQD	REQUIRED
ENCL	ENCLOSURE	REV.	REVISED, REVISION
EQ.	EQUAL	RM.	ROOM
ELEV.	ELEVATION	R.O.	ROUGH OPENING
E.P.	ELECTRICAL PANEL	RP	RECESSED PANEL
EMERG.	EMERGENCY	SCHED.	SCHEDULE
EXP.JT.	EXPANSION JOINT	SECT.	SECTION
EXST.	EXISTING	SF.	SQUARE FOOT
EXT.	EXTERIOR	SHT.	SHEET
F.F.	FINISH FLOOR	SIM.	SIMILAR
FEC	FIRE EXTINGUISHER CABINET	SP.	SCRIBED PANEL
FIN.	FINISH, FINISHED	SQ.	SQUARE
FIXT.	FIXTURE	S.S.	SERVICE SINK
FLR.	FLOOR	SS	STAINLESS STEEL
F.O.	FACE OF	STL.	STEEL
F.T.	FIRE TREATED	STOR	STORAGE
FT.	FOOT, FEET	STRUCT.	STRUCTURE, STRUCTURAL
FURN.	FURNISHED	SUSP.	SUSPENDED
GA.	GAUGE	STD.	STANDARD
GALV.	GALVANIZED	SV	SHEET VINYL
GC	GENERAL CONTRACTOR	TBD	TO BE DETERMINED
GL.	GLASS	TEL.	TELEPHONE
GWB	GYPSUM WALL BOARD	THK	THICK
HDWR	HARDWARE	T.O.	TOP OF
H./J/S	HEAD/JAMB/SILL	TYP.	TYPICAL
HM	HOLLOW METAL	UON	UNLESS OTHERWISE NOTED
HO	HOLD OPEN DEVICE	V.B.	VINYL BASE
HORIZ.	HORIZONTAL	VCT	VINYL COMPOSITION TILES
HT.	HEIGHT	V.I.F.	VERIFY IN FIELD
HWT	HOT WATER TANK	W/O	WITHOUT
HR.	HOUR	WC	WATER CLOSET
H.R.	HANG ROD	WD.	WOOD
HSS	HOLLOW STRUCTURAL SECTION		

DIAGRAM OF TYPICAL DEVICE LOCATION AND MOUNTING HEIGHTS: [NOT TO SCALE]



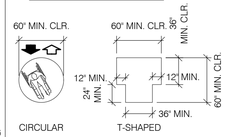
NOTE THAT THE ABOVE DELINEATED MOUNTING HEIGHTS ARE TYPICAL ONLY. PLANS, ELEVATIONS AND DETAILS MAY SHOW VARIATIONS FOR SPECIFIC CONDITIONS.

*NOTE: ALL EXISTING OUTLETS, DATA JACKS, OR RECEPTACLES TO BE AT 1'-3" TO BOTTOM OF OUTLET

ACCESSIBILITY NOTES [PER ANSI A117.1-2009]

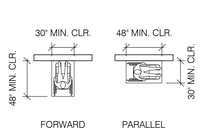
BUILDING BLOCKS

SIZE OF TURNING SPACE



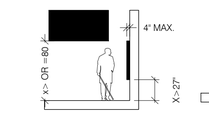
CIRCULAR T-SHAPED

POSITION OF CLEAR FLOOR SPACE

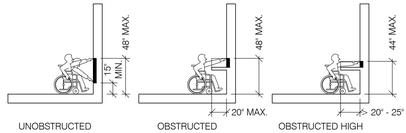


FORWARD PARALLEL

LIMITS OF PROTRUDING OBJECTS



REACH RANGES



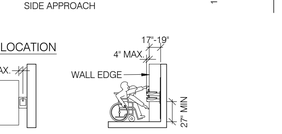
UNOBSTRUCTED FORWARD REACH — OBSTRUCTED FORWARD REACH — OBSTRUCTED HIGH FORWARD REACH

SIZE OF CLEAR FLOOR SPACE



FORWARD APPROACH

MANEUVERING CLEARANCE IN AN ALCOVE



FORWARD APPROACH — FORWARD APPROACH

TOE AND KNEE CLEARANCE

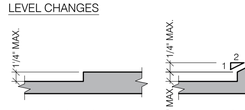


*NOTE: REFER TO THE TOE AND KNEE CLEARANCE REQUIREMENTS FOR RESTROOMS AND DRINKING FOUNTAIN

UNOBSTRUCTED SIDE REACH — (A) OBSTRUCTED HIGH SIDE REACH — (B) OBSTRUCTED HIGH SIDE REACH

ACCESSIBLE ROUTES

CLEAR WIDTH OF AN ACCESSIBLE ROUTE



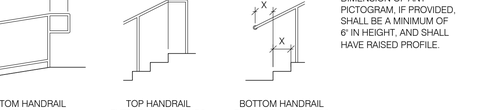
HINGED DOOR

CLEAR WIDTH AT TURN



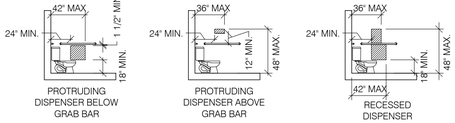
180° TURN — 180° TURN (EXCEPTION)

CLEAR WIDTH OF DOORWAYS



HINGED DOOR — SLIDING DOOR — FOLDING DOOR — DOORWAY W/O DOOR

MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS



FRONT APPROACH, PULL SIDE — FRONT APPROACH, PUSH SIDE — HINGE APPROACH, PULL SIDE — HINGE APPROACH, PULL SIDE — HINGE APPROACH, PUSH SIDE — LATCH APPROACH, PULL SIDE — LATCH APPROACH, PUSH SIDE

MANEUVERING CLEARANCES AT SLIDING & FOLDING DOORS

FRONT APPROACH — POCKET OR HINGE APPROACH — STOP OR LATCH APPROACH

MANEUVERING CLEARANCES AT RECESSED DOORS

PULL SIDE — PUSH SIDE — PUSH SIDE, DOOR PROVIDED W/ BOTH CLOSER & LATCH

MANEUVERING CLEARANCES AT DOORWAYS W/O DOORS

FRONT APPROACH — SIDE APPROACH

HANDRAIL CLERANCE

RESTROOM SIGNAGE

SIGNAGE WITH RAISED LETTERS AND GRADE 2 BRAILLE AT LATCH SIDE OF DOOR, CENTERLINE AT 60" ABOVE FINISH FLOOR

AT LEAST ONE SIGN SHALL INCLUDE THE SYMBOL OF ACCESSIBILITY

NOTE: SIGNAGE SHALL COMPLY WITH ALL REQUIREMENTS AS PER LOCAL CODES.

PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF ANY PICTOGRAM, IF PROVIDED, SHALL BE A MINIMUM OF 6" IN HEIGHT, AND SHALL HAVE RAISED PROFILE.

DRINKING FOUNTAIN SPOUT LOCATION

FORWARD APPROACH — PARALLEL APPROACH — SIDE ELEVATION

HANDRAIL EXTENSION

TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS — TOP HANDRAIL EXTENSION AT STAIRS — BOTTOM HANDRAIL EXTENSION AT STAIRS

LEVEL CHANGES

VERTICAL CHANGE IN LEVEL — BEVELED CHANGE IN LEVEL

WATER CLOSET LOCATION

ACCESSIBLE WATER CLOSETS — AMBULATORY ACCESSIBLE WATER CLOSETS

WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS

WALL-HUNG WATER CLOSET - ADULT

WATER CLOSET GRAB BAR

SIDE WALL GRAB BAR — REAR WALL GRAB BAR

DISPENSER OUTLET LOCATION

PROTRUDING DISPENSER BELOW GRAB BAR — PROTRUDING DISPENSER ABOVE GRAB BAR — RECESSED DISPENSER

HANDRAIL HEIGHT

STAIRS — RAMPS — WALKING SURFACES

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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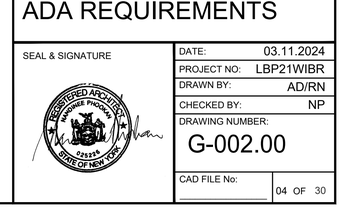
CIVIL ENGINEERS :
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KEY PLAN:



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1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

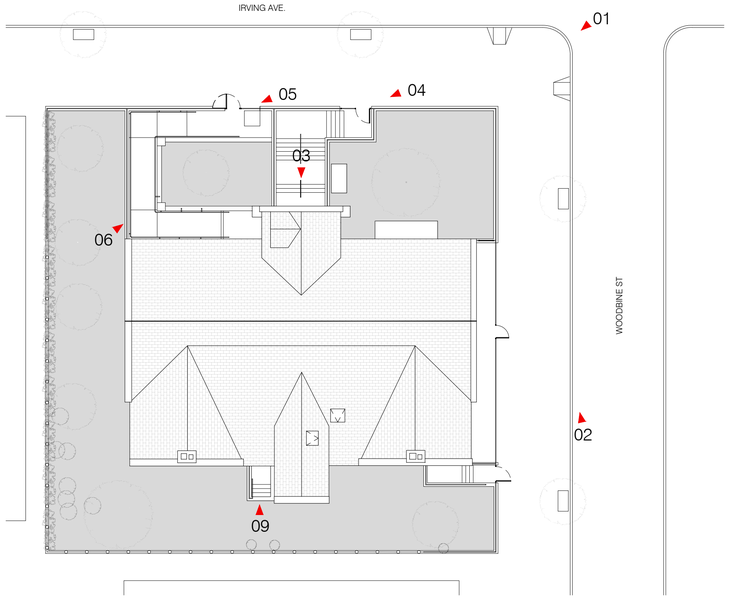
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
LEGENDS, ABBREVIATIONS AND ADA REQUIREMENTS

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 025324 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	G-002.00
CAD FILE No:	
	04 OF 30



01 EXISTING SITE PLAN
SCALE: 1/16"=1'-0"

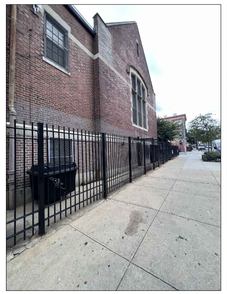


BIRDS EYE VIEW OF EXISTING SITE

EXTERIOR PHOTOGRAPHS



01



02



03



04

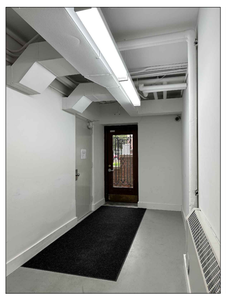


05

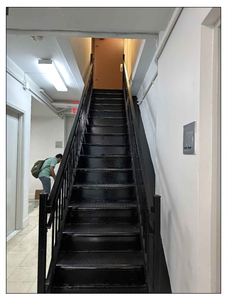


06

INTERIOR PHOTOGRAPHS



07 VIEW OF BASEMENT ENTRY



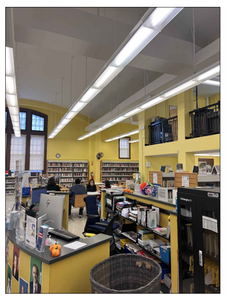
08 STAIR A TO FIRST FLOOR



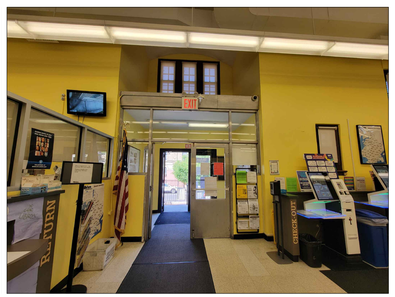
09 EXTERIOR VIEW OF STAIR D



10 CHILDRENS READING ROOM ON FIRST FLOOR



11 RECEPTION VIEW W/MEZZANINE



12 FIRST FLOOR ENTRY VIEW

02 EXISTING SITE PHOTOS
SCALE: -

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
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EXTERIOR RESTORATION :
THE FALCON GROUP
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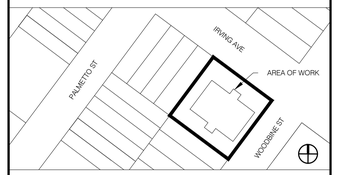
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STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
EXISTING SITE PLAN AND PHOTOS

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 026478 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP

DRAWING NUMBER:
G-003.00

CAD FILE No: 06

	INSPECTION/TEST	REFERENCE STANDARD (SEE NYCECC CHAPTER 4) OR OTHER CRITERIA)	NYCECC OR ASHRAE CITATION	MIN. PERIODIC INSPECTION FREQUENCY	INSPECTION DESCRIPTION
IIA	**ENVELOPE INSPECTION**				
IIA2	INSULATION PLACEMENT AND R-VALUES.	R.53 ATTIC AND OTHER (402.13)	C303.1, C303.2, C402.1, C402.2, C402.6, C406; ASHRAE 90.1 - 5.5, 5.6, 5.8, 5.9, 11 OR APPENDIX G, APPENDIX I	AS REQUIRED TO VERIFY CONTINUOUS ENCLOSURE WHILE WALLS, CEILINGS AND FLOORS ARE OPEN.	
IIA3	FENESTRATION AND DOOR U-FACTOR AND PRODUCT RATINGS.	N/A	C303.1, C303.1.3; C402.1.4, C402.4, C406; ASHRAE 90.1 - 5.4.2, 5.5, 5.6, 5.8.2, 5.9. 11 OR APPENDIX G, APPENDIX I	AS REQUIRED DURING INSTALLATION. AT A MINIMUM, PERFORM WHEN 20% OF DOORS, WINDOWS/CURTAIN WALLS ARE INSTALLED.	N/A
IIA5	FENESTRATION AREAS.	N/A	C402.4; ASHRAE 90.1 - 5.4, 5.5.4, 5.6, 5.9, 11 OR APPENDIX G	PRIOR TO FINAL INSPECTION.	N/A
IIA6	AIR BARRIER-VISUAL INSPECTION.	N/A	C402.4; ASHRAE 90.1 - 5.4, 5.5.4, 5.6, 5.9, 11 OR APPENDIX G	PRIOR TO FINAL INSPECTION.	N/A

2020 NYC ENERGY CONSERVATION CODE NOTES:

THE SUBJECT BUILDING IS A COMMERCIAL BUILDING AS DEFINED IN SECTION ECC C202.

CLIMATE ZONE 4A SHALL BE USED IN DETERMINING THE APPLICABLE REQUIREMENTS FROM CHAPTER C4, PER TO C301.1

PROJECT SCOPE:

1. BRICK FIELD REPLACEMENT
2. BRICK CORNER RECONSTRUCTION
3. BRICK CRACK RESTORE
3. STONE PATCH RESTORE
8. STONE CRACK RESTORE
9. BRICK POINTING
10. STONE POINTING
11. MASONRY AND STONE REFURBISHMENT
12. STONE CHIMNEY CAP REPLACEMENT
13. ROOF AND FLASHING REPLACEMENT
14. GUTTER, LEADERBOX, AND LEADER REPLACEMENT
15. SNOWPAD REPLACEMENT
16. CONCRETE CURB AND FENCE REPLACEMENT
17. SIDEWALK FLAG REPLACEMENT
18. FOUNDATION WALL WATERPROOFING (AND EXCAVATION)
19. FIXED LOUVER REPLACEMENT

CODE COMPLIANCE

THE PROJECT SHALL COMPLY WITH THE ADMINISTRATIVE REQUIREMENTS OF CHAPTER 1 OF NYC ECC ADMINISTRATION, AND WITH 1 RCNY 5000-01 "CONSTRUCTION DOCUMENT APPROVAL REQUIREMENTS FOR COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE," AND OTHER APPLICABLE RULES AND REGULATIONS.

THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER C4 COMMERCIAL ENERGY EFFICIENCY, SECTION ECC C401 GENERAL REQUIREMENTS AND APPLICABLE PORTIONS OF SECTION ECC C402 BUILDING ENVELOPE REQUIREMENTS AS MODIFIED BY APPLICABLE PORTIONS OF CHAPTER C5 EXISTING BUILDINGS.

ECC 101.5.2.1 PROFESSIONAL STATEMENT: "TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE."

ECC 101.5.2.2 ENERGY ANALYSIS. THE PROJECT IS A "BUILDING ALTERATION PROJECT." THE ENERGY ANALYSIS SHALL DEMONSTRATE HOW THE PROJECT DESIGN COMPLIES WITH THE ECC. FOR THIS PROJECT THE ANALYSIS SHALL COMPARE THE PROPOSED DESIGN TO PRESCRIPTIVE REQUIREMENTS OF THE NY ECC.

ECC 101.5.3.3 SUPPORTING DOCUMENTATION. THE CONSTRUCTION DOCUMENTS SHALL DEMONSTRATE CONFORMANCE WITH THE ENERY ANALYSIS FOR EVERY ELEMENT CONTAINED IN THE ENERGY ANALYSIS AND SHALL COMPLY WITH THE APPLICABLE REQUIEMENTS OF SECTION ECC 103 CONSTRUCTION DOCUMENTS.

ECC 103.4 CHANGES DURING CONSTRUCTION. CHANGES MADE DURING CONSTRUCTION THAT ARE NOT IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE RE-SUBMITTED TO THE DOB AS AN AMENDED SET OF CONSTRUCTION DOCUMENTS.

DOB APPROVAL STAMP

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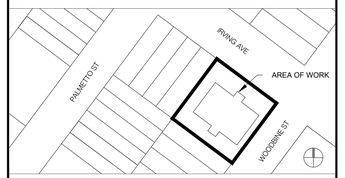
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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

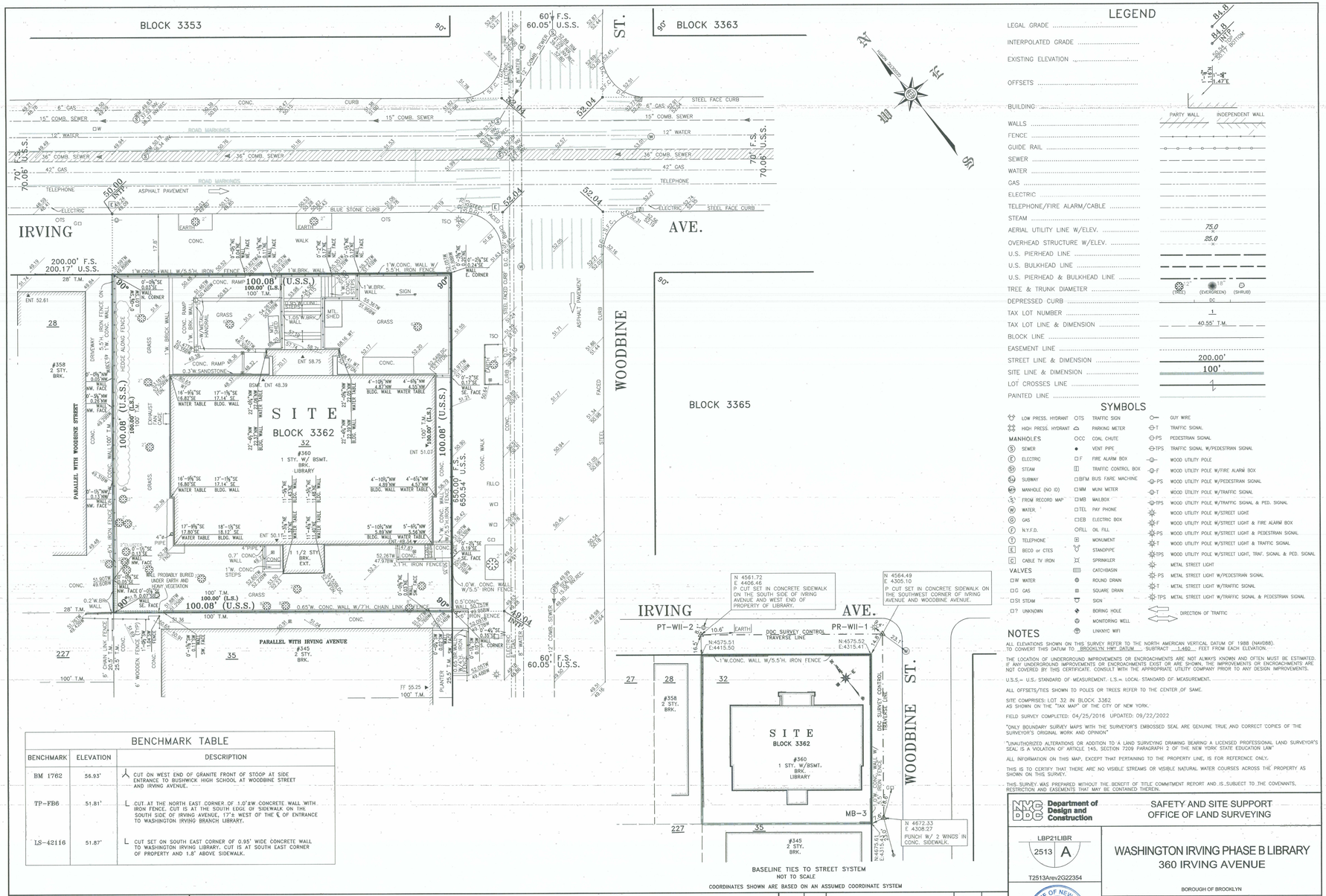
ENERGY ANALYSIS

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	EN-100.00
CAD FILE No: 2	OF 30

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BENCHMARK TABLE

BENCHMARK	ELEVATION	DESCRIPTION
BM 1762	56.93'	CUT ON WEST END OF GRANITE FRONT OF STOOP AT SIDE ENTRANCE TO BUSHWICK HIGH SCHOOL AT WOODBINE STREET AND IRVING AVENUE.
TP-FB6	51.81'	CUT AT THE NORTH EAST CORNER OF 1.0'±W.CONCRETE WALL WITH IRON FENCE, CUT IS AT THE SOUTH EDGE OF SIDEWALK ON THE SOUTH SIDE OF IRVING AVENUE, 17'± WEST OF THE ℄ OF ENTRANCE TO WASHINGTON IRVING BRANCH LIBRARY.
LS-42116	51.87'	CUT SET ON SOUTH EAST CORNER OF 0.95' WIDE CONCRETE WALL TO WASHINGTON IRVING LIBRARY. CUT IS AT SOUTH EAST CORNER OF PROPERTY AND 1.8' ABOVE SIDEWALK.

LEGEND

LEGAL GRADE
INTERPOLATED GRADE
EXISTING ELEVATION
OFFSETS
BUILDING
WALLS
FENCE
GUIDE RAIL
SEWER
WATER
GAS
ELECTRIC
TELEPHONE/FIRE ALARM/CABLE
STEAM
AERIAL UTILITY LINE W/ELEV.
OVERHEAD STRUCTURE W/ELEV.
U.S. PIERHEAD LINE
U.S. BULKHEAD LINE
U.S. PIERHEAD & BULKHEAD LINE
TREE & TRUNK DIAMETER
DEPRESSED CURB
TAX LOT NUMBER
TAX LOT LINE & DIMENSION
BLOCK LINE
EASEMENT LINE
STREET LINE & DIMENSION
SITE LINE & DIMENSION
LOT CROSSES LINE
PAINTED LINE

PARTY WALL | INDEPENDENT WALL
75.0
25.0
(TREE) (EVERGREEN) (SHRUB)
1
40.55' T.M.
200.00'
100'

SYMBOLS

LOW PRESS. HYDRANT
HIGH PRESS. HYDRANT
MANHOLES
SEWER
ELECTRIC
STEAM
SUBWAY
MANHOLE (NO ID)
FROM RECORD MAP
WATER
GAS
N.Y.F.D.
TELEPHONE
BECO or CTES
CABLE TV IRON
VALVES
WATER
GAS
STEAM
UNKNOWN
TRAFFIC SIGN
PARKING METER
COAL CHUTE
VENT PIPE
FIRE ALARM BOX
TRAFFIC CONTROL BOX
BFM BUS FARE MACHINE
MUNI METER
MAILBOX
PAY PHONE
ELECTRIC BOX
OIL FILL
MONUMENT
STANDPIPE
SPRINKLER
CATCHBASIN
ROUND DRAIN
SQUARE DRAIN
SIGN
BORING HOLE
MONITORING WELL
LINKNYC WIFI
GUY WIRE
TRAFFIC SIGNAL
PEDESTRIAN SIGNAL
TRAFFIC SIGNAL W/PEDESTRIAN SIGNAL
WOOD UTILITY POLE
WOOD UTILITY POLE W/FIRE ALARM BOX
WOOD UTILITY POLE W/PEDESTRIAN SIGNAL
WOOD UTILITY POLE W/TRAFFIC SIGNAL
WOOD UTILITY POLE W/TRAFFIC SIGNAL & PED. SIGNAL
WOOD UTILITY POLE W/STREET LIGHT
WOOD UTILITY POLE W/STREET LIGHT & FIRE ALARM BOX
WOOD UTILITY POLE W/STREET LIGHT & PEDESTRIAN SIGNAL
WOOD UTILITY POLE W/STREET LIGHT & TRAFFIC SIGNAL
WOOD UTILITY POLE W/STREET LIGHT, TRAF. SIGNAL & PED. SIGNAL
METAL STREET LIGHT
METAL STREET LIGHT W/PEDESTRIAN SIGNAL
METAL STREET LIGHT W/TRAFFIC SIGNAL
METAL STREET LIGHT W/TRAFFIC SIGNAL & PEDESTRIAN SIGNAL
DIRECTION OF TRAFFIC

NOTES

ALL ELEVATIONS SHOWN ON THIS SURVEY REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT THIS DATUM TO BROOKLYN HWY DATUM, SUBTRACT 1.460 FEET FROM EACH ELEVATION.

THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS ARE NOT ALWAYS KNOWN AND OFTEN MUST BE ESTIMATED. IF ANY UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS EXIST OR ARE SHOWN, THE IMPROVEMENTS OR ENCROACHMENTS ARE NOT COVERED BY THIS CERTIFICATE. CONSULT WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO ANY DESIGN IMPROVEMENTS.

U.S.S.= U.S. STANDARD OF MEASUREMENT. L.S.= LOCAL STANDARD OF MEASUREMENT.

ALL OFFSETS/TIES SHOWN TO POLES OR TREES REFER TO THE CENTER OF SAME.

SITE COMPRISES: LOT 32 IN BLOCK 3362
AS SHOWN ON THE "TAX MAP" OF THE CITY OF NEW YORK.

FIELD SURVEY COMPLETED: 04/25/2016 UPDATED: 09/22/2022

"ONLY BOUNDARY SURVEY MAPS WITH THE SURVEYOR'S EMBOSSED SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE SURVEYOR'S ORIGINAL WORK AND OPINION"

"UNAUTHORIZED ALTERATIONS OR ADDITION TO A LAND SURVEYING DRAWING BEARING A LICENSED PROFESSIONAL LAND SURVEYOR'S SEAL IS A VIOLATION OF ARTICLE 145, SECTION 7209 PARAGRAPH 2 OF THE NEW YORK STATE EDUCATION LAW"

ALL INFORMATION ON THIS MAP, EXCEPT THAT PERTAINING TO THE PROPERTY LINE, IS FOR REFERENCE ONLY.

THIS IS TO CERTIFY THAT THERE ARE NO VISIBLE STREAMS OR VISIBLE NATURAL WATER COURSES ACROSS THE PROPERTY AS SHOWN ON THIS SURVEY.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF TITLE COMMITMENT REPORT AND IS SUBJECT TO THE COVENANTS, RESTRICTION AND EASEMENTS THAT MAY BE CONTAINED THEREIN.

PARTY CHIEF L. SANTANA, I. BLAKE
COMPUTATION V. PRZADKA CHECKED A. VOLOVICH
DRAFTED G. MAGIDENKO CHECKED C. WILLIAMS
FIELD EDITED

KURT KRAEMER, L.S.
DIRECTOR
OFFICE OF LAND SURVEYING

ALLA AYZENSHTAT, ASP
ASSOCIATE COMMISSIONER
SAFETY AND SITE SUPPORT

NO.	DATE	DESCRIPTIONS	BY	APPR'D
2	10/22/22	UPDATED TOPO	D.R.	K.K.
1	6/16/16	UPDATED TOPO & CONVERTED DATUM TO NAVD88	G.M.	C.W.

REVISIONS

Department of Design and Construction
SAFETY AND SITE SUPPORT
OFFICE OF LAND SURVEYING

LBP21LIBR
2513 A
T2513Arev2G22354

WASHINGTON IRVING PHASE B LIBRARY
360 IRVING AVENUE
BOROUGH OF BROOKLYN

TOPOGRAPHICAL & PROPERTY LINE MAP

DATE 05/28/1996
20' 0' 20' 40'
SHEET 1 OF 1

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

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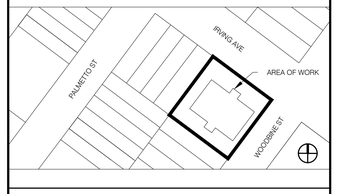
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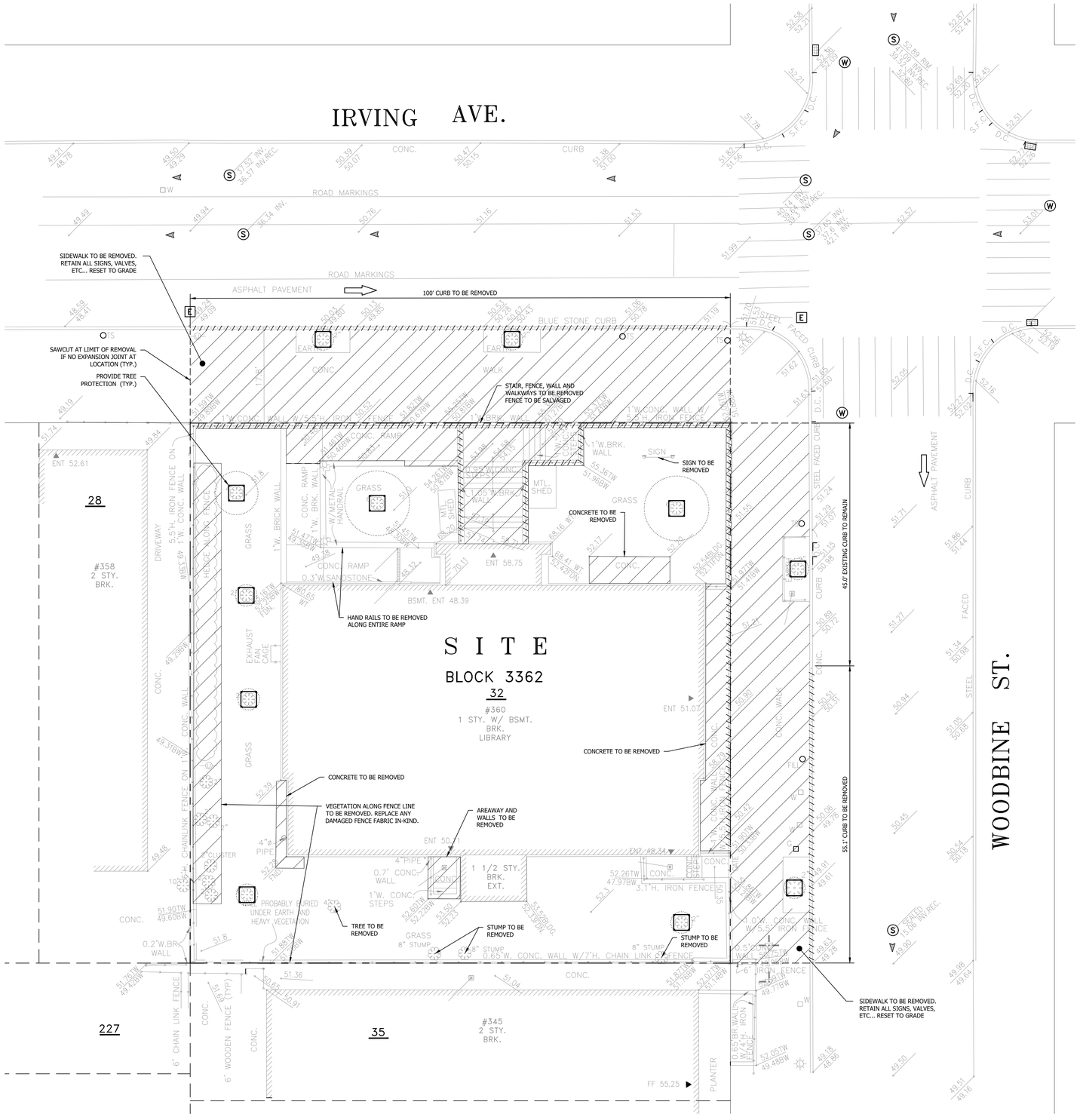
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
SURVEY

DOB APPROVAL STAMP

SEAL & SIGNATURE

DATE: 03.11.2024
PROJECT NO: LBP21WIBR
DRAWN BY: AD/RN
CHECKED BY: NP
DRAWING NUMBER: X-100.00
CAD FILE No:



1 SITE DEMOLITION PLAN
SCALE: 1" = 10'

LEGEND

- LIMIT OF DISTURBANCE
- LIMIT OF DISTURBANCE
- LINEAR ITEM TO BE REMOVED
- AREA TO BE REMOVED
- TREE PROTECTION & CRITICAL ROOT ZONE

TREE PROTECTION NOTES

1. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF THE EXISTING TREES. BULK MATERIAL, EQUIPMENT, SCAFFOLD FOOTINGS, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE, OR WITHIN THREE (3) FT. OF THE TRUNK (WHICHEVER IS GREATER). THIS IS DONE TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION. THIS APPLIES TO ALL CRZS WITHIN OR OUTSIDE THE PROJECT LIMIT LINE. EVERY INCH OF DBH (DIAMETER BREAST HEIGHT) OF THE TREE REPRESENTS ONE REQUIRED RADIAL FOOT OF TREE PROTECTION. DBH AT THE TIME OF THE SURVEY IS NOTED. ACTUAL DBH MAY BE LARGER AND SHALL BE VERIFIED BY THE CONTRACTOR AT THE START OF CONSTRUCTION.
2. IF ANY MACHINERY IS OPERATING WITHIN THE CRZ THE AFFECTED AREA SHALL BE COVERED WITH MULCH TO A DEPTH OF AT LEAST TWELVE (12)-INCHES AND COVERED WITH PLYWOOD OR METAL PLATES TO DISTRIBUTE WEIGHT IN ORDER TO PROTECT ROOTS FROM DAMAGE CAUSED BY HEAVY EQUIPMENT. SUCH COVERING SHALL BE MAINTAINED DURING THE COURSE OF CONSUCTION AND REMOVED BY HAND OR AS SPECIFIED BY THE CONTRACTED CERTIFIED ARBORIST WITH ASSOCIATED PHOTOS REPORTED ACCORDINGLY. HEAT SOURCES, FLAMES, IGNITION SOURCES, AND SMOKING ARE PROHIBITED WITHIN THE CRZ AND WITHIN THE ABOVE MENTIONED MULCHED AREA.
3. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL PERFORM REMEDIAL WORK TO DAMAGED TREES AT THE CONTRACTOR'S EXPENSE.
4. CONSTRUCTION ACCESS ROUTE IS TO BE DIAGRAMMED AND ROUTED TO MINIMALLY IMPACT ANY EXISTING TREES. FINAL ROUTE SHALL BE ESTABLISHED ON SITE AND APPROVED BY THE COMMISSIONER.
5. ROOTS OVER ONE (1)-INCH IN DIAMETER SHALL NOT BE CUT WITHOUT THE WRITTEN PERMISSION OF THE COMMISSIONER.
6. TO BEST PROTECT TREE ROOTS THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING CONCRETE OR ASPHALT WITHIN THE CRZ OF EXISTING TREES. PAVEMENT SHOULD BE LIFTED RATHER THAN DRAGGED. ANY EXCAVATION WITHIN THE CRZ, OR ELSEWHERE ON SITE, AS INDICATED ON TREE PROTECTION PLAN, SHALL BE DONE BY HAND OR PNEUMATIC EXCAVATION AND IN THE PRESENCE OF A CONTRACTED CERTIFIED ARBORIST WITH ASSOCIATED PHOTOS AND REPORT TO BE FILED WITH COMMISSIONER.
7. THE EXCAVATION AREA WITHIN THE CRZ SHALL BE BACKFILLED IMMEDIATELY AND/OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF TWO (2) TIMES A DAY, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, FOR A MAXIMUM OF FORTY-EIGHT (48) HOURS, UNTIL BACKFILL IS COMPLETE AS DIRECTED BY THE COMMISSIONER. IF DIRECTED, SOAKER HOSES SHALL BE INSTALLED TO FACILITATE PROPERLY MOIST CONDITIONS. NO POOLING OF WATER OR CONTINUOUS RUNNING WATER SHALL OCCUR WITHIN THE DRIP LINE OF EXISTING TREES OR WITHIN THE TREE PROTECTION ZONES OTHER THAN THAT DURING THE IRRIGATION PROCESS.
8. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN FORTY-EIGHT (48)-HOURS, THE EXPOSED AREA SHALL BE COVERED WITH AT LEAST SIX (6)-INCHES OF MULCH AND MAINTAINED MOIST DURING THE COURSE OF CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED. PHOTOS TO BE TAKEN PERIODICALLY AND REPORTED TO THE COMMISSIONER.
9. NO RUNOFF OR SPILLAGE OF NOXIOUS MATERIALS WHILE MIXING, PLACING, OR STORING CONSTRUCTION MATERIAL SHALL OCCUR WITHIN THE TREE PIT OR CRZ. NO PONDING, ERODING, OR EXCESSIVE WETTING CAUSED BY DEWATERING OPERATIONS SHALL OCCUR WITHIN TREE PIT OR CRITICAL ROOT ZONE.
10. ALL EXISTING TREES BEING PROTECTED ON PROPOSED JOBSITE ARE TO BE WATERED 20 GALLONS ONCE WEEKLY BETWEEN MARCH 1 AND OCTOBER 30 ACCORDINGLY TO BEST PRESERVE EXISTING TREES DURING DEMOLITION AND CONSTRUCTION PROCESSES. WATERING SHALL BE DONE IN A MANNER THAT THERE SHOULD NOT BE STANDING WATER AROUND THE TREE.
11. UNLESS OTHERWISE NOTED IT IS BEST TO KEEP EXISTING CONCRETE WITHIN TREE PROTECTION ZONE AS LONG AS POSSIBLE UNTIL REMOVAL AND REINSTALLATION. CONCRETE SHOULD BE LEFT INTACT THROUGHOUT THE DEMOLITION AND CONSTRUCTION PROCESS TO PREVENT FURTHER SOIL COMPACTION ON EXISTING TREE ROOTS. OTHER WORK MAY BE SPECIFIED BY COMMISSIONER TO BE DONE WITHIN A PRESCRIBED TIMEFRAME.
12. PREPARATORY PRUNING WORK SHALL BE PERFORMED ONLY WHEN DIRECTED BY THE COMMISSIONER. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS AND BY A QUALIFIED, LICENSED & INSURED ARBORIST OR TREE SERVICE COMPANY.

GRAPHIC SCALES

1" = 20' (20' 10' 0' 20')

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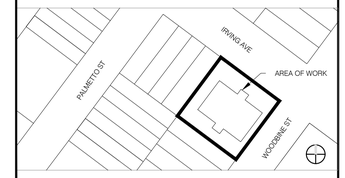
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

NYC DDC **Department of Design and Construction**

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

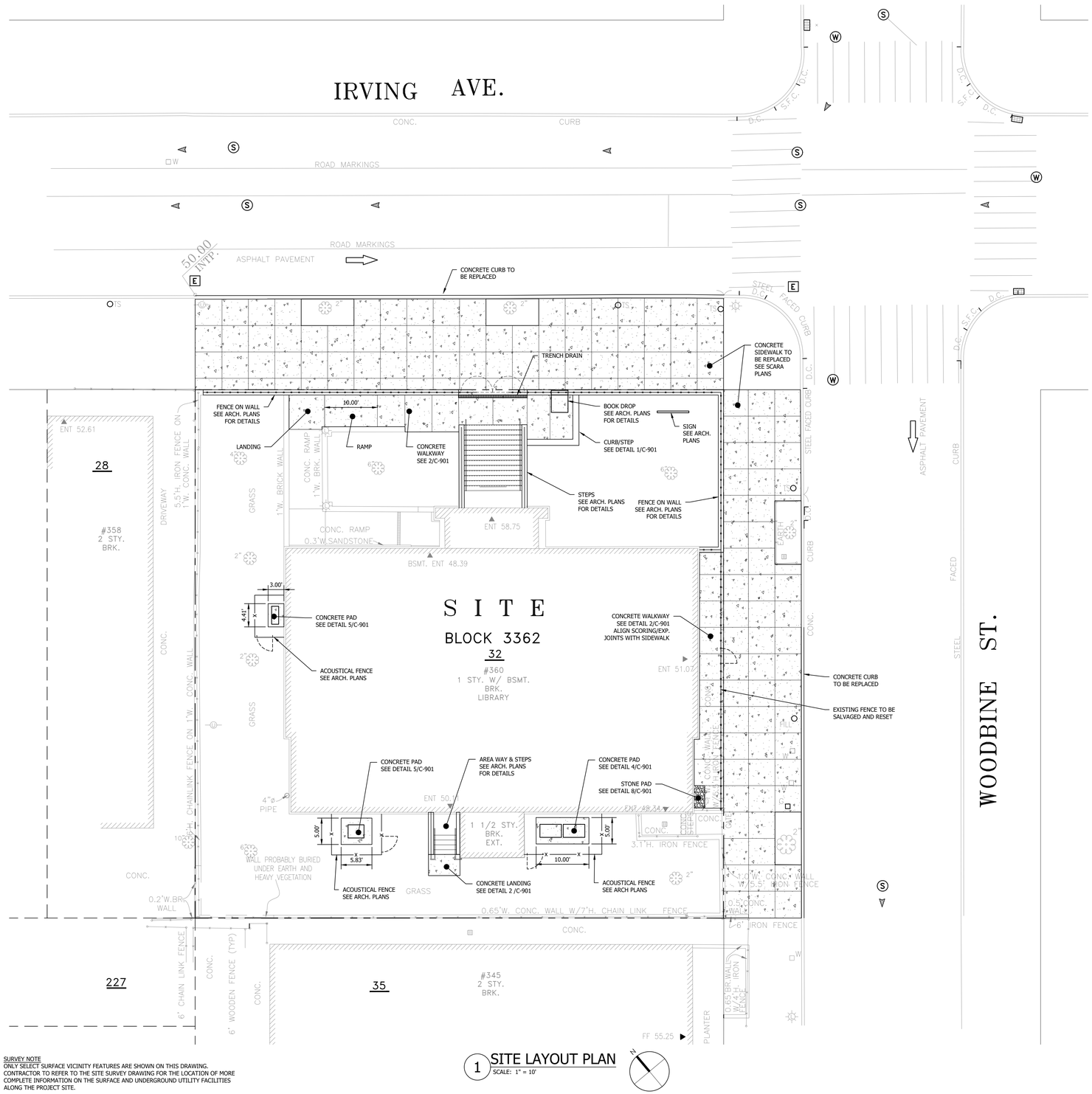
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
SITE DEMOLITION PLAN

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	**C-101.00**
CAD FILE No:	OF



1 SITE LAYOUT PLAN
SCALE: 1" = 10'

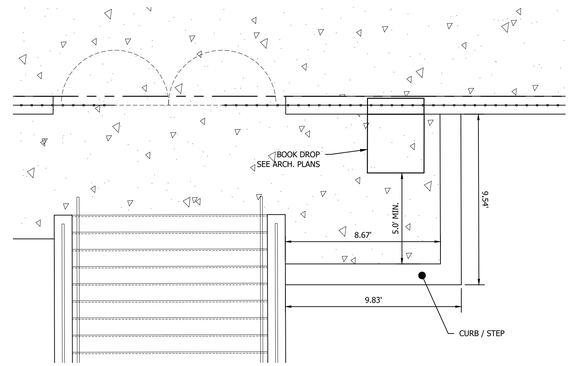
SURVEY NOTE
ONLY SELECT SURFACE VICINITY FEATURES ARE SHOWN ON THIS DRAWING. CONTRACTOR TO REFER TO THE SITE SURVEY DRAWING FOR THE LOCATION OF MORE COMPLETE INFORMATION ON THE SURFACE AND UNDERGROUND UTILITY FACILITIES ALONG THE PROJECT SITE.

PROPOSED LEGEND

- PROPERY LINE
- NEW CONCRETE WALKWAY / SIDEWALK
- EXISTING TREE AND ROOT PROTECTION ZONE
- LIGHT POLE
- UTILITY POLE

NOTES:

1. SEE SHEET A-402 FOR DIMENSIONAL LAYOUT OF ACOUSTICAL FENCE AND EQUIPMENT.
2. SEE ARCH. PLANS FOR HAND RAILS.



2 PARTIAL LAYOUT PLAN - BOOK DROP OFF
SCALE: 1/4" = 1' - 0"

GRAPHIC SCALES

1" = 10' (10' 0' 10' 20')

¼" = 1'-0" (4' 2' 1' 0' 4' 8')

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
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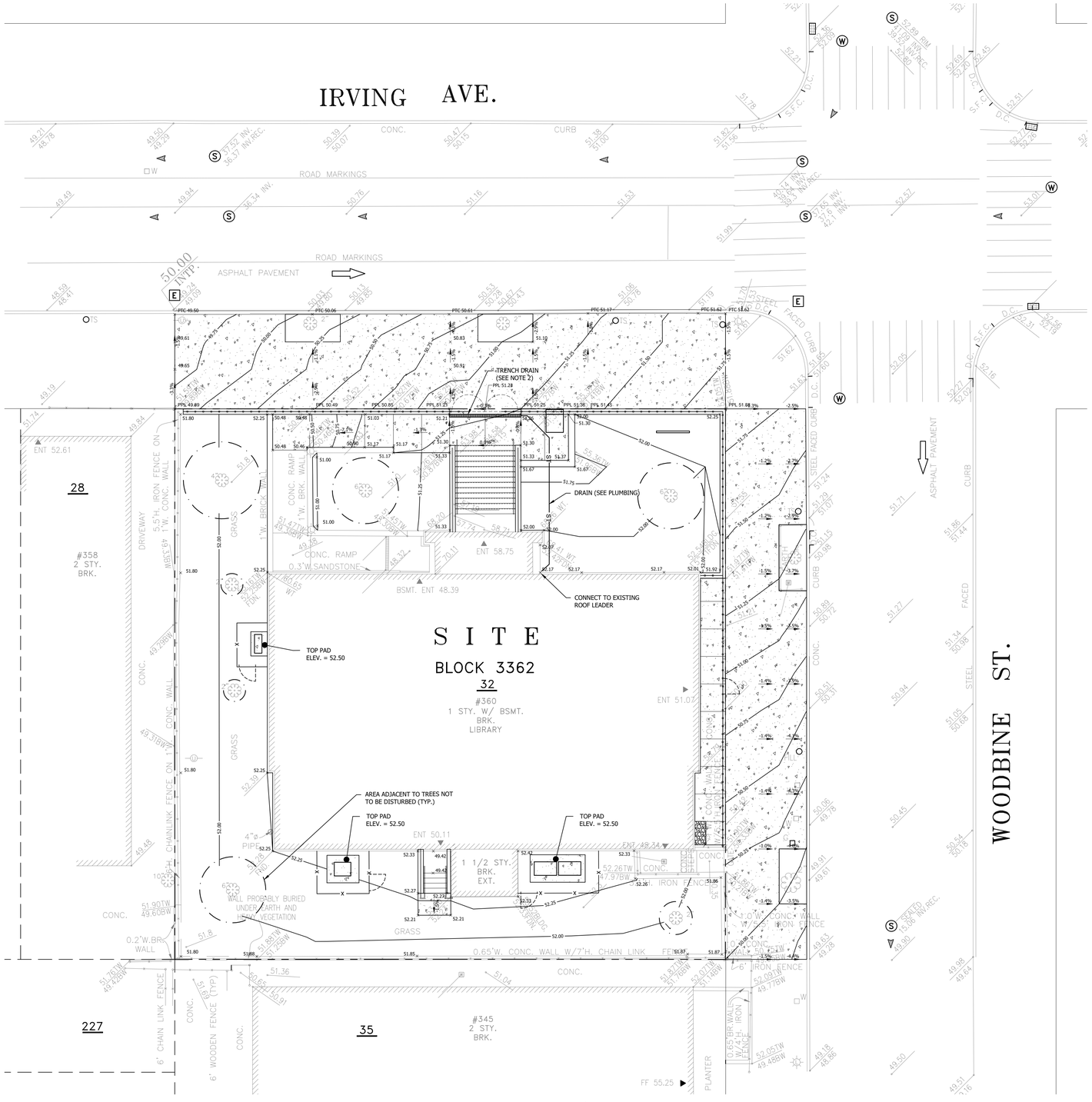
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
SITE LAYOUT PLAN

SEAL & SIGNATURE

STATE OF NEW YORK · JEFFREY ALAN DEROSIER · 083791 · LICENSED PROFESSIONAL ENGINEER

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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CAD FILE No:	
	OF



1 SITE GRADING PLAN
SCALE: 1" = 10'

GRAPHIC SCALES
1" = 10'
10' 0' 10' 20'

LEGEND

LINE / SYMBOL / HATCH	DESCRIPTION
64 / 100.0	CONTOUR
	SPOT SHOT
X.XX%	CROSS SLOPE & DIRECTION

ABBREVIATIONS

BW	=	BOTTOM OF WALL
ELEV.	=	ELEVATION
GH	=	GRADE HIGH
GL	=	GRADE LOW
GR.	=	GRATE
INV.	=	INVERT
PBC	=	PROPOSED BOTTOM OF CURB
PPL	=	PROPOSED PROPERTY LINE
PTC	=	PROPOSED TOP OF CURB
TW	=	TOP OF WALL

NOTES:

1. GRADING SHALL NOT OCCUR WITHIN THE CRITICAL ROOT ZONE OF THE TREES WITHOUT PERMISSION FROM THE COMMISSIONER. SEE TREE PROTECTION NOTES ON C-101.
2. TRENCH DRAIN SHALL BE SET AT WALKWAY GRADES INDICATED. CONTRACTOR SHALL PROVIDE A SHOP DRAWING WITH PROPOSED INVERTS TO THE ENGINEER OF RECORD.

DOB APPROVAL STAMP

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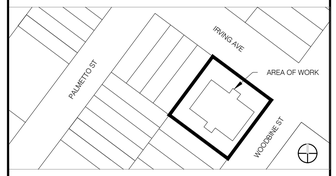
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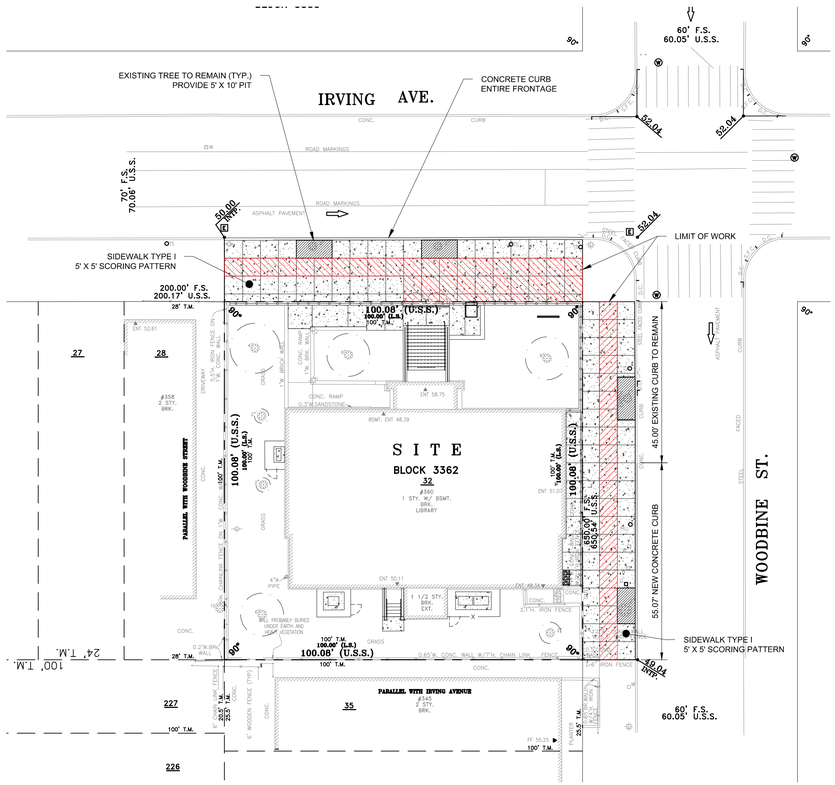
FOR THE:
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DRAWING TITLE:
SITE GRADING PLAN

SEAL & SIGNATURE

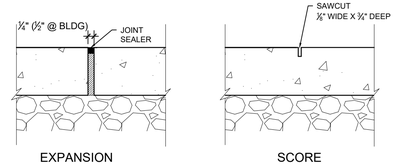
STATE OF NEW YORK · JEFFREY ALAN DEROSIER · 083791 · LICENSED PROFESSIONAL ENGINEER

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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	OF

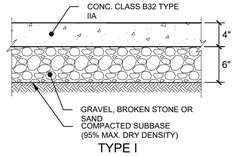


SURVEY NOTE
ONLY SELECT SURFACE VICINITY FEATURES ARE SHOWN ON THIS DRAWING. CONTRACTOR TO REFER TO THE SITE SURVEY DRAWING FOR THE LOCATION OF MORE COMPLETE INFORMATION ON THE SURFACE AND UNDERGROUND UTILITY FACILITIES ALONG THE PROJECT SITE.

1 PLOT PLAN
SCALE: 1" = 20'



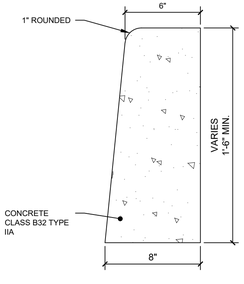
5 SIDEWALK JOINT DETAILS
NOT TO SCALE



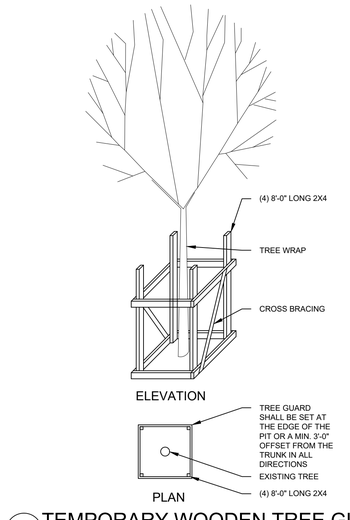
NOTES:
1. ALL MATERIALS AND CONSTRUCTION METHODS USED ARE TO CONFORM TO SECTION #4.13 OF THE NYCDOT STANDARD HIGHWAY SPECIFICATIONS.
2. EXPANSION JOINTS ARE TO BE PROVIDED EVERY AT THE CURB, PROPERTY LINES, CURB CUT LIMITS AND AT A MAXIMUM SPACING OF 20 FEET. CONTRACTOR TO DETERMINE FINAL LOCATION IN ACCORDANCE WITH THESE SPECIFICATIONS IN THE FIELD.

SPECIFICATIONS:
1. SIDEWALK SHALL BE TINTED WITH SAW CUT SCORE JOINTS.
2. CONTRACTOR SHALL PROVIDE CORES FOR FRONTAGES > 100 FT. (1 PER 500 S.F. OF AREA). FOR FRONTAGES < 100 FT. DELIVERY TICKETS MAY BE PROVIDED IN LIEU OF CORES.

2 CONCRETE SIDEWALK DETAILS
1" = 1' - 0"



3 CONCRETE CURB DETAIL (H-104
2" = 1' - 0"



4 TEMPORARY WOODEN TREE GUAR
SCALE: 1/4" = 1'-0"

PROPOSED LEGEND - SCARA PLANS

- PROPERY LINE
- ACCESSIBLE ROUTE (MAX 2.0% CONSTRUCTED SLOPE)
- NEW CONCRETE WALKWAY / SIDEWALK
- EXISTING TREE AND ROOT PROTECTION ZONE
- W — WATER SERVICE
- G — GAS SERVICE
- ELECTRIC SERVICE
- C — BUILDING SEWER - COMBINED
- SERVICE VALVE
- TRAFFIC SIGN
- HYDRANT
- LIGHT POLE / UTILITY POLE
- UTILITY POLE
- BUILDING ENTRANCE

LIST OF STANDARDS

DOT STANDARDS

H-1010	STEEL FACED CONCRETE CURB
H-1011 R09/06	SIDEWALK PEDESTRIAN RAMPS
H-1015-R79	DROP CURB
H-1035	CONCRETE CURB DETAIL
H-1045 TYPE I	4" THICK CONCRETE SIDEWALK
H-1045 TYPE II	7" THICK CONCRETE SIDEWALK
H-1046 TYPE I	STREET TREE PLANTING DETAIL
H-1046 A	PROTECTIVE TREE BARRIER

DEP STANDARDS

45161-A-A	STANDARD STEEL HYDRANT FENDER

NOTE:
CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND USING THE LATEST DOT & DEP CONSTRUCTION DETAILS & SPECIFICATIONS.

SCOPE OF WORK

REPLACE EXISTING CURB AND SIDEWALK. REGRADE SIDEWALK TO PROVIDE ACCESSIBLE ROUTE TO ALTERED SITE ENTRANCE.

CONTRACTOR GENERAL CONDITIONS:

1. THE WORK SHOWN ON THESE DRAWINGS IS SPECIALIZED WORK WHICH SHOULD ONLY BE DONE BY AN EXPERIENCED SIDEWALK CONTRACTOR WHO IS FAMILIAR WITH THE REQUIREMENTS OF THE NYCDOT AND NYCDOB. FAILURE TO HIRE AN EXPERIENCED SIDEWALK CONTRACTOR MAY RESULT IN PROBLEMS DURING SIGNOFF OF THE WORK.
2. THE ORIGINAL TOPOGRAPHIC SURVEY WHICH WAS USED TO DEVELOP THIS BUILDER'S PAVEMENT PLAN UTILIZED BENCHMARKS AND KNOWN POINTS AVAILABLE TO THE ORIGINAL SURVEYOR. THE GRADES AND TOPOGRAPHICAL INFORMATION SHOWN HEREON WERE DEVELOPED USING THIS ORIGINAL SURVEY INFORMATION. NOTE THAT MANY TIMES THE CONSTRUCTION STAKEOUT IS PERFORMED BY A DIFFERENT SURVEYOR THAN THE ORIGINAL SURVEYOR.

   PRIOR TO ESTABLISHING FINISHED FLOOR ELEVATIONS OF THE BUILDING, THE CONTRACTOR SHALL VERIFY THAT THE GRADES SHOWN ON THIS BPP MATCH THE ELEVATIONS THAT THE CONSTRUCTION SURVEYOR IS USING. DURING THIS PROCESS CHECK THAT THE PERIMETER GRADES, WHICH ARE TO REMAIN, MATCH THE SAME PERIMETER GRADES SHOWN ON THIS BPP. REPORT ANY DISCREPANCIES TO THE BUILDING ARCHITECT AND/OR BPP ENGINEER.
3. DOOR ELEVATIONS ON THIS PLAN WERE COORDINATED WITH THE ARCHITECT. PRIOR TO CONSTRUCTION, VERIFY THAT THE AS-BUILT DOOR ELEVATIONS MATCH THE ELEVATIONS SHOWN ON THIS BPP. REPORT ANY DISCREPANCIES TO THE BUILDING ARCHITECT AND/OR BPP ENGINEER.
5. ONLY SELECT SURFACE VICINITY FEATURES ARE SHOWN ON THIS DRAWING. CONTRACTOR TO REFER TO THE SITE SURVEY DRAWING FOR THE LOCATION OF MORE COMPLETE INFORMATION ON THE SURFACE AND UNDERGROUND UTILITY FACILITIES ALONG THE PROJECT SITE.
6. UTILITIES AND PIPING SHOWN ON THIS PLAN IS FOR INFORMATION ONLY. DO NOT RELY UPON THIS PLAN FOR ACCURATE LOCATIONS OF UTILITIES. CONFIRM UTILITY LOCATIONS AND WORK WITH TEST PITS AND CURRENT SURVEY INFORMATION.
7. EXISTING TREES WITHIN THE PROJECT FRONTAGE AND WITHIN 50' ALONG EACH CROSS STREET SHALL BE PROTECTED IN ACCORDANCE WITH THE NYC PARKS STANDARDS. A TREE WORK PERMIT IS REQUIRED TO BE OBTAINED FROM PARKS DEPARTMENT FOR ANY EXISTING WORK.
   DOOR SHALL NOT PROJECT BEYOND THE PROPERTY LINE MORE THAN 18".
   SEE ARCHITECTURAL PLANS.

TRIPPING HAZARDS
THERE SHALL BE NO TRIPPING HAZARD, NO CHANGE IN ELEVATION GREATER THAN ¼" .

EXPANSION JOINTS:
EXPANSION JOINTS ARE TO BE PROVIDED AT THE CURB, PROPERTY LINES, CURB CUT LIMITS AND AT A MAXIMUM SPACING OF 20 FEET. ADDITIONAL EXPANSION JOINTS SHALL BE PROVIDED AROUND STREET FURNITURE INCLUDING HYDRANTS, UTILITY POLES, LIGHT POLES.

JOINTS SHALL BE ½" IN WIDTH AND SHALL EXTEND CONTINUOUSLY FROM THE BACK OF THE CURB TO THE BUILDING LINE. JOINTS SHALL BE FILLED WITH PREFORMED JOINT FILLER TO WITHIN 1" OF THE SIDEWALK SURFACE. THE TOP 1" SHALL BE SEALED WITH POURED JOINT FILLER.

SIDEWALK SCORING:
FLAGS SHALL BE 5'x5' WHERE FEASIBLE. THE FOLLOWING METHODS OF SCORING SHALL BE EMPLOYED UNLESS OTHERWISE APPROVED BY THE COMMISSIONER: THE FRONTAGE OF EACH BUILDING SHALL BE DIVIDED BY 5. IF IT IS EXACTLY DIVISIBLE, ALL FLAGS SHALL BE 5' WIDE. IF NOT, THE FLAGS SHALL BE PLUS OR MINUS IN AM AMOUNT WHICH WILL MAKE THEM AS NEAR TO 5' AS POSSIBLE. CROSS FLAG SCORING SHALL BE AT 90 DEGREES TO THE BUILDING LINE AND CURB AND THE PROPERTY LINE SHALL BE PARALLEL WITH THE PROPERTY LINE AND CURB AND BE UNIFORMLY 5' APART COMMENCING AT THE CUR, WITH THE ODD FLAG WIDTH, IF ANY, NEAREST THE PROPERTY LINE.

ASPHALT PAVING:
THIS DRAWING IDENTIFIES THE LIMITS OF PAVEMENT RESPONSIBILITY FOR AN UNDAMAGED ROADBED AS ½ MAPPED WIDTH OF THE STREET + 5 FEET (20 FEET MINIMUM) FROM THE PROPOSED CURB LINE. AT THE END OF THE PROJECT IF THE ROADBED IS NOT DAMAGED THAT NO ADDITIONAL REPAIR/RE-TOPPING NEEDS TO BE DONE. FINAL DETERMINATION WILL BE MADE BY THE DOB/DOT INSPECTOR.

ADA COMPLIANCE

1. THE PUBLIC SIDEWALK AROUND THE PROPERTY FRONTAGE HAS BEEN DESIGNED TO BE ACCESSIBLE WITH A MAXIMUM 2.0% (CONSTRUCTED) CROSS SLOPE WITHIN THE RED HATCHED AREAS. CONTRACTOR MUST COMPLY.
2. DOORWAYS ARE REQUIRED TO HAVE A 5' LANDING, THE WIDTH OF THE DOOR THAT HAS A MAXIMUM LONGITUDINAL AND CROSS SLOPE OF 1.9%.
3. DETAILED GRADING OF CORNER QUADRANTS, WHERE APPLICABLE, IS PROVIDED.

GRAPHIC SCALES

1" = 20' — 20' 10' 0' 20' 40'

Borough: BROOKLYN	Sheet 1 of 3
DOB Reference No.:	DOT Reference No.:

NEW YORK CITY
DEPARTMENT OF TRANSPORTATION
PLAN TYPE E
PROJECT DATA

BLOCK:	3363	LOTS:	32
ZONING:	R6	ZONING MAP.:	13b
ADDRESS:	360 IRVING AVENUE		
OWNER:	BROOKLYN PUBLIC LIBRARY		
NAME:			
ADDRESS:			
PHONE:			

PLOT PLAN

WAIVERS

DOT REQUIREMENT WAIVED	As Per:	Date:
1)		
2)		
3)		

DOT STANDARD NOTES

GENERAL REQUIREMENTS:
1. ALL DESIGNS, MATERIALS, CONSTRUCTION METHODS AND WORKMANSHIP SHALL COMPLY WITH THE FOLLOWING PUBLICATIONS OF THE BUREAU OF HIGHWAYS: STANDARD SPECIFICATIONS, STANDARD DETAILS OF CONSTRUCTION; RULES OF THE BUREAU OF HIGHWAY OPERATIONS; GUIDELINES FOR THE DESIGN OF INFRASTRUCTURE COMPONENTS.
2. ALL NON STANDARD MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE SPECIFICALLY APPROVED IN WRITING BY THE DOT.
3. ANY WORK NOT COMPLYING WITH THE REQUIREMENTS OF THE DOT SHALL BE REMOVED AND REPLACED.
4. THIS PLAN SHALL BE VALID FOR THE ISSUANCE OF CONSTRUCTION PERMITS FOR THE PERIOD OF ONE (1) YEAR FROM THE DATE OF APPROVAL OR SELF CERTIFICATION, AS APPLICABLE.
5. ALL SIDEWALK AND STREET AREAS CONSTRUCTED UNDER THIS PLAN SHALL REMAIN OPEN TO THE PUBLIC AT ALL TIMES.

ISSUANCE OF PERMITS
6. NO SIDEWALK, CURB OR ROADWAY WORK SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH HIGHWAY SUPERINTENDENT. APPLICATIONS SHALL BE MADE THREE (3) DAYS BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL HAVE ALL REQUIRED INSURANCE COVERAGE ON FILE.
7. NO WORK ON DRAINAGE STRUCTURES SHALL BE DONE WITHOUT A PERMIT FROM THE BOROUGH OFFICE OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
8. ANY VAULT WORK AT THE SITE SHALL BE DONE AS PER THE APPLICABLE RULES OF THE DOT AND DEPARTMENT OF BUILDINGS.

CONSTRUCTION ACTIVITY
9. A CONSTRUCTION PLAN SHOWING MAINTENANCE AND PROTECTION OF TRAFFIC, INCLUDING PLACEMENT OF SIDEWALK BRIDGES, BARRIERS AND SIGNAGE, SHALL BE SUBMITTED TO THE BOROUGH HIGHWAY OFFICE BEFORE CONSTRUCTION BEGINS.
10. NO SIDEWALK SHALL BE CLOSED WITHOUT A PERMIT. PEDESTRIAN AND TRAFFIC SAFETY SHALL BE PROTECTED AT ALL TIMES. ROADWAY CLOSINGS SHALL BE AS DIRECTED.
11. THE SITE SHALL BE MAINTAINED IN A CLEAN AND SAFE CONDITION.

FINAL-SIGN OFF
12. PERMITS SHALL BE PRESENTED FROM ALL PUBLIC AGENCIES AND UTILITIES HAVING OWNERSHIP OF STRUCTURES RELOCATED OR REMOVED DURING CONSTRUCTION.
13. ALL PAVEMENT MARKINGS INCLUDING THERMOPLASTIC LANE DIVIDERS REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND TO THE BUREAU OF TRAFFIC STANDARDS.
14. ALL EXISTING CATCH BASINS ON SITE SHALL BE CLEANED AND MADE OPERABLE.
15. ALL DAMAGE CAUSED BY CONSTRUCTION ON THIS PROJECT OUTSIDE THE PROJECT LIMITS SHALL BE REPAIRED AS DIRECTED.
16. THE ROADWAY SHALL BE PAVED TO REQUIREMENTS OF DOT AND AS DIRECTED.
17. PEDESTRIAN RAMPS SHALL OBTAIN A 412 INSPECTION FROM DOT HQA.

LIST OF ESTIMATED QUANTITIES
SEE INDIVIDUAL SHEETS

STREET TREE SUMMARY

STREET FRONTAGE	200 L.F.
ALLOWABLE DEDUCTION	0.0 L.F.
APPLICABLE FRONTAGE	200 L.F.
TOTAL REQUIRED	8 TREES
REMOVED	0 TREE
PRESERVED (ON-SITE)	4 TREE
PLANTED (ON-SITE)	0 TREE
PLANTED (OFF-SITE)	0 TREE
PAYMENT TO TREE FUND (ON-SITE)	0 TREES
PAYMENT TO TREE FUND (OFF-SITE)	0 TREES
TOTAL PROVIDED	4 TREES

NOTES
1. ALL ELEVATIONS SHOW ON ON THIS PLAN ARE IN THE N.A.V.D. 1988 DATUM.
2. THIS PLAN DOES NOT INCLUDE APPROVALS FOR ANY PLUMBING WORK.
3. REPLACE / RESET CURB AS REQUIRED.
4. EXTENT OF PAVEMENT RESPONSIBILITY IS ½ MAPPED ROADWAY + 5 FEET. PAVEMENT SHALL BE REPAIRED / REPLACED AS REQUIRED TO MEET DOT REQUIREMENTS.
5. WHEN WORKING AROUND TREE PITS, CONTRACTOR SHALL CONTACT THE CITY OF NEW YORK PARKS AND RECREATION DEPARTMENT. CALL 311 TO REQUEST A ROOT SLICING APPOINTMENT. TREE ROOTS SHALL NOT BE REMOVED.
6. ALL NEW TREES SHALL COMPLY WITH THE DEPARTMENT OF PARKS AND RECREATION STANDARDS.
7. PROJECT SITE IS >200 FEET FROM ANY MTA FACILITY. MTA APPROVAL NOT REQUIRED.
8. PROJECT SITE IS NOT LOCATED IN A LANDMARK DISTRICT. LANDMARKS APPROVAL NOT REQUIRED.

DOB APPROVAL STAMP

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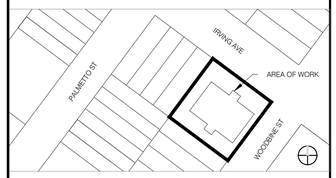
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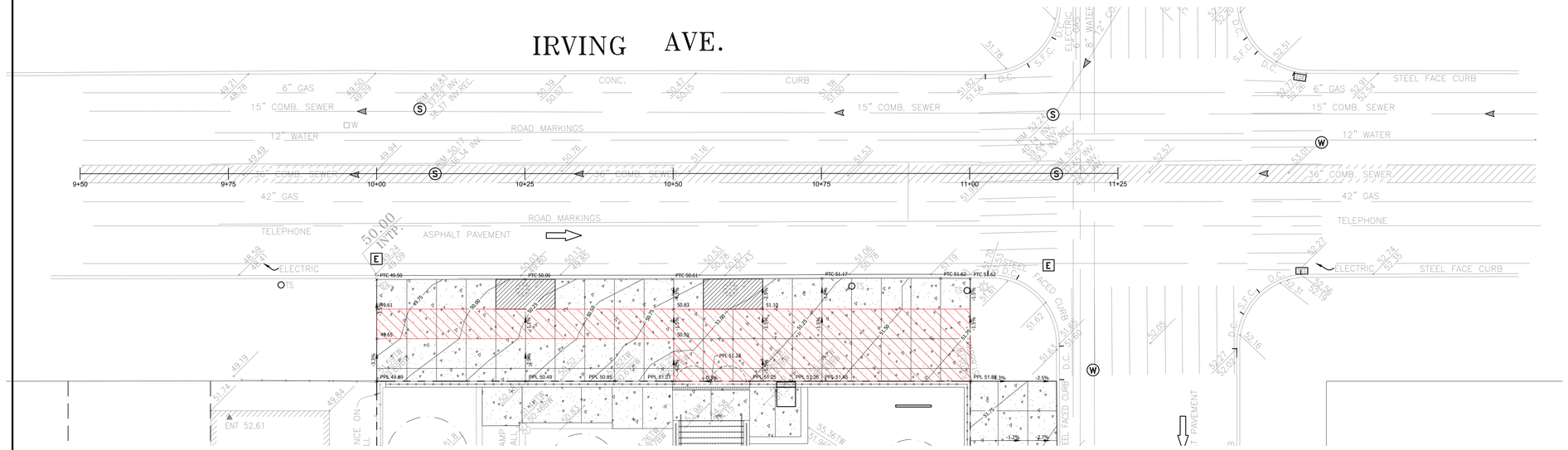
DRAWING TITLE:
SCARA PLAN
PLOT PLAN, NOTES & DETAILS

SEAL & SIGNATURE

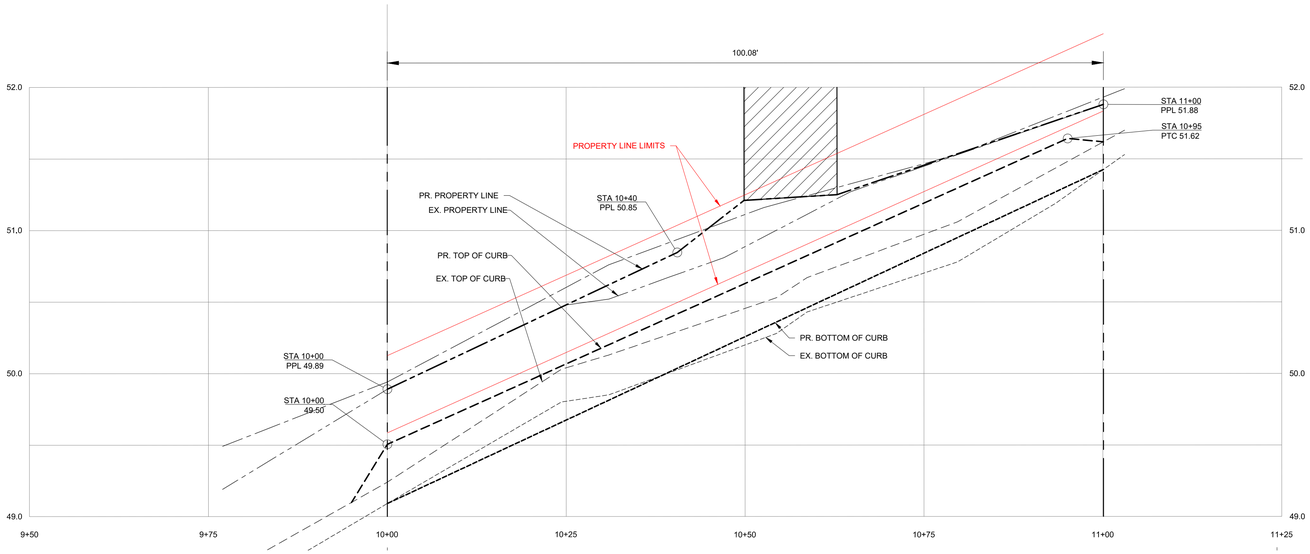
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JEFFREY ALAN DEROSIER
083791
LICENSED PROFESSIONAL ENGINEER

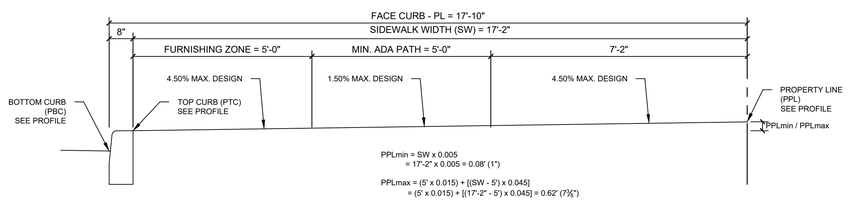
DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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DRAWING NUMBER:	C-801.00
CAD FILE No:	OF

Borough: BROOKLYN	Sheet 2 of
DOB Reference No.:	DOT Reference No.:



1 DETAILED GRADING PLAN - IRVINGTON AVENUE
SCALE: 1"=10'





2 MAX. AVERAGE SIDEWALK SCLOPE CALCULATION - IRVINGTON AVENUE
NOT TO SCALE

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
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Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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Brooklyn Public Library (BPL)

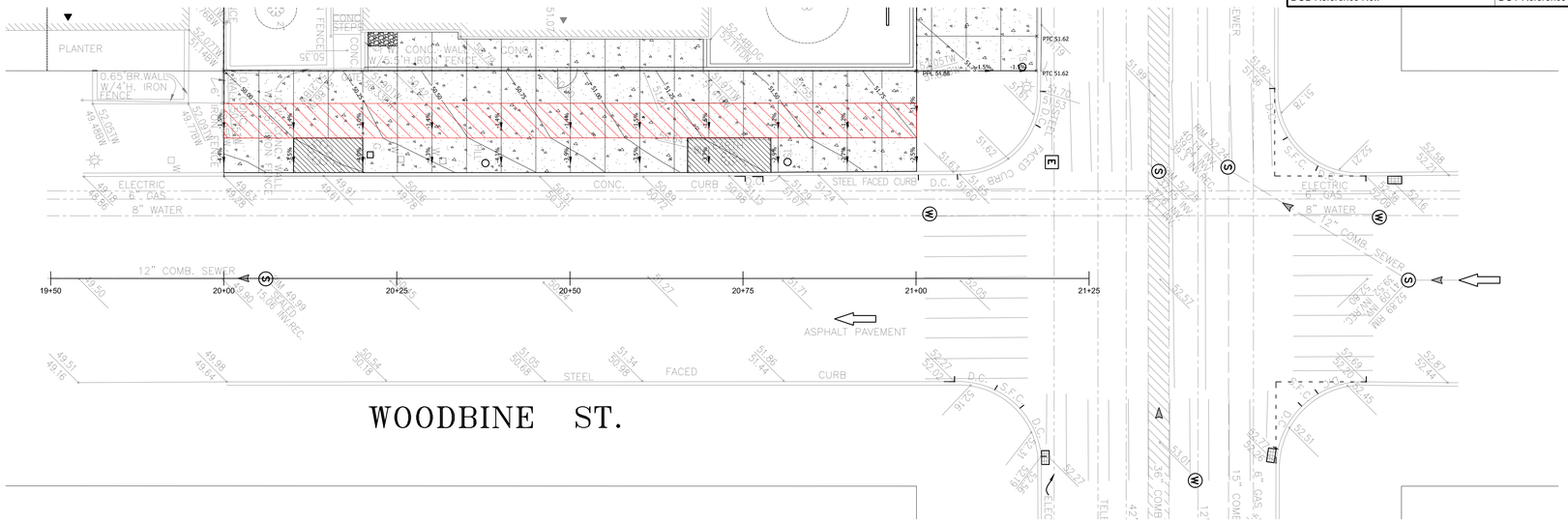
DRAWING TITLE:
SCARA PLAN
DETAILED SIDEWALK GRADING
IRVING AVENUE

SEAL & SIGNATURE



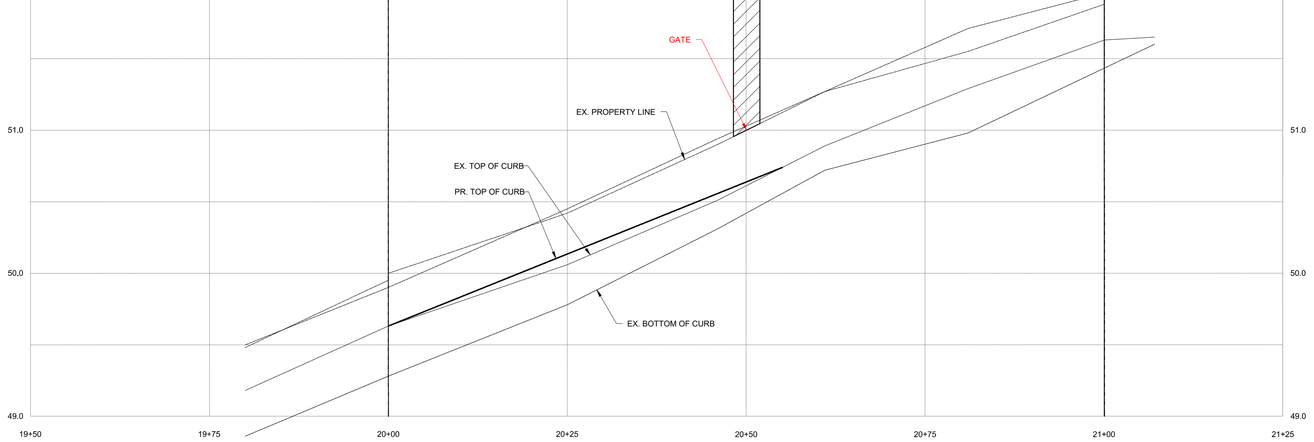
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DOB Reference No.:	DOT Reference No.:



1 DETAILED GRADING PLAN - WOODBINE STREET

SCALE: 1"=10'



STATION	19+80	20+00	20+25	20+50	20+75	21+00	21+25	STATION
LEGAL GRADE	49,04							LEGAL GRADE
PROPERTY LINE - EXISTING	49,48	50,00	50,42	51,00	51,47	51,88	7.71	PROPERTY LINE - EXISTING
PROPERTY LINE - PROPOSED	49,48	50,00	50,42	51,00	51,47	51,88	7,73	PROPERTY LINE - PROPOSED
TOP CURB - EXISTING	49,18	49,63	50,06	50,61	51,17	51,63	7,44	TOP CURB - EXISTING
TOP CURB - PROPOSED	49,18	49,63	50,13	50,64	51,17	51,63	7,47	TOP CURB - PROPOSED
BOTTOM CURB - EXISTING	48,86	49,28	49,78	50,42	50,90	51,43	7,04	BOTTOM CURB - EXISTING
BOTTOM CURB - PROPOSED	48,86	49,28	49,78	50,42	50,90	51,43	7,04	BOTTOM CURB - PROPOSED
CENTERLINE ROADWAY	49,50	49,90	50,45	51,03	51,58	51,96	7,63	CENTERLINE ROADWAY
SIDEWALK WIDTH	15.25 FT.	15.25 FT.	15.25 FT.	15.25 FT.	15.25 FT.	15.25 FT.	15.25 FT.	SIDEWALK WIDTH
AVG. CROSS SLOPE - SIDEWALK - EX.	1.97 %	2,43 %	2,36 %	2,56 %	1.97 %	1.64 %	1.77 %	AVG. CROSS SLOPE - SIDEWALK - EX.
AVG. CROSS SLOPE - SIDEWALK - PR.	1.97 %	2,43 %	1.90 %	2,36 %	1.97 %	1.64 %	1.70 %	AVG. CROSS SLOPE - SIDEWALK - PR.
CURB REVEAL - EXISTING	3,8 IN.	4.2 IN.	3,4 IN.	2.3 IN.	3,2 IN.	2.4 IN.	4,8 IN.	CURB REVEAL - EXISTING
CURB REVEAL - PROPOSED	3,8 IN.	4.2 IN.	4.2 IN.	2,6 IN.	3,2 IN.	2.4 IN.	5,2 IN.	CURB REVEAL - PROPOSED
ROADWAY WIDTH	14.75 FT.	14.75 FT.	14.75 FT.	14.75 FT.	14.75 FT.	14.75 FT.	14.75 FT.	ROADWAY WIDTH
CROSS SLOPE - ROADWAY - EX.	4,34 %	4.20 %	4.54 %	4.14 %	4.61 %	3.59 %	4.00 %	CROSS SLOPE - ROADWAY - EX.
CROSS SLOPE - ROADWAY - PR.	4,34 %	4.20 %	4.54 %	4.14 %	4.61 %	3.59 %	4.00 %	CROSS SLOPE - ROADWAY - PR.

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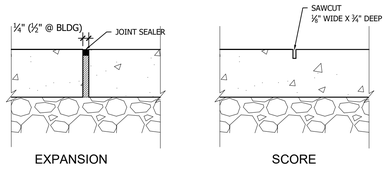
FOR THE:
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DRAWING TITLE:
SCARA PLAN
DETAILED SIDEWALK GRADING
WOODBINE STREET

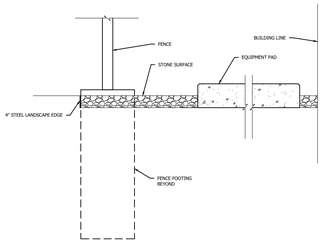
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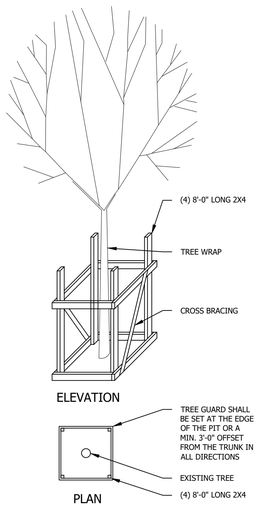
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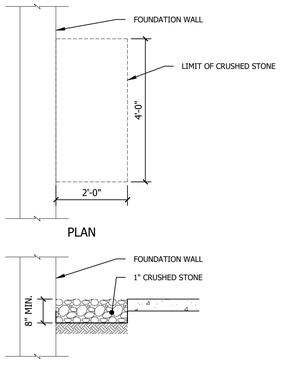
10 CONC. WALKWAY JOINT DETAILS
NOT TO SCALE



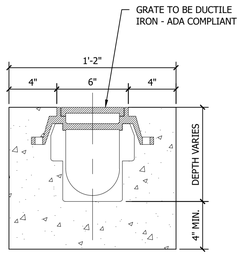
7 TYPICAL SECTION AT ACOUSTICAL FENCE
1/2" = 1' - 0"



9 TEMPORARY WOODEN TREE GUARD
SCALE: 1/4" = 1'-0"



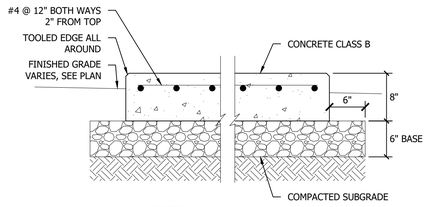
8 STONE BACKFLOW DISCHARGE PAD
1/2" = 1' - 0"



NOTES:

1. TRENCH DRAIN SYSTEM TO BE 6 INCH WIDE DEAD LEVEL - D SYSTEM AS MANUFACTURED BY WATTS, OR APPROVED EQUAL.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTING AND ACCESSORIES REQUIRED TO PROVIDE A TRENCH AT THE LOCATION AND CONFIGURATION INDICATED ON THE PLANS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING.
4. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURES RECOMMENDATION.

6 TRENCH DRAIN DETAIL
1" = 2'-0"



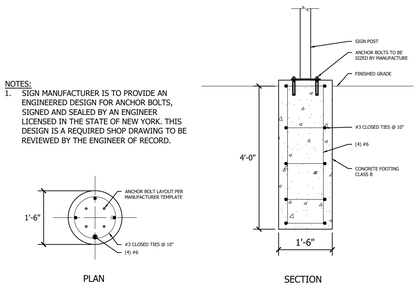
NOTES:

1. SEE PLAN FOR DIMENSIONS

5 EQUIPMENT PAD DETAIL
1" = 1' - 0"

NOTES:

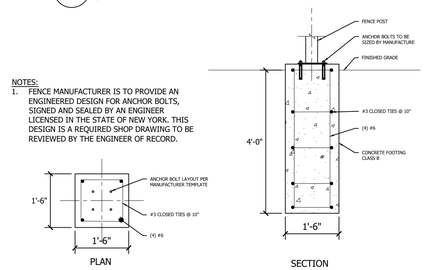
1. SIGN MANUFACTURER IS TO PROVIDE AN ENGINEERED DESIGN FOR ANCHOR BOLTS, SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF NEW YORK. THIS DESIGN IS A REQUIRED SHOP DRAWING TO BE REVIEWED BY THE ENGINEER OF RECORD.



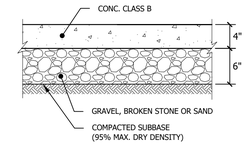
4 SIGN POST FOOTING DETAIL
1/2" = 1' - 0"

NOTES:

1. FENCE MANUFACTURER IS TO PROVIDE AN ENGINEERED DESIGN FOR ANCHOR BOLTS, SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF NEW YORK. THIS DESIGN IS A REQUIRED SHOP DRAWING TO BE REVIEWED BY THE ENGINEER OF RECORD.



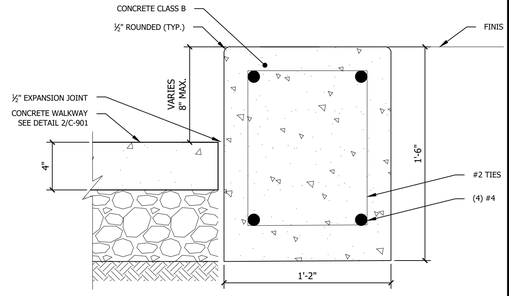
3 ACOUSTICAL FENCE FOOTING DETAIL
1/2" = 1' - 0"



NOTES:

1. EXPANSION JOINTS ARE TO BE PROVIDED AT A MAXIMUM SPACING OF 20 FEET AND ABUTTING CURBS, STRUCTURES AND AT THE PROPERTY LINE. CONTRACTOR TO DETERMINE FINAL LOCATION IN ACCORDANCE WITH THESE SPECIFICATIONS IN THE FIELD.
2. SCORING SHALL BE AS INDICATED ON THE DRAWINGS (CIVIL OR ARCH.) AND SHALL BE SAWCUT.

2 CONCRETE WALKWAY DETAIL
1" = 1' - 0"



1 CONCRETE CURB / STEP DETAIL
2" = 1' - 0"

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WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

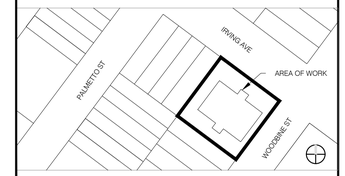
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



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Department of Design and Construction

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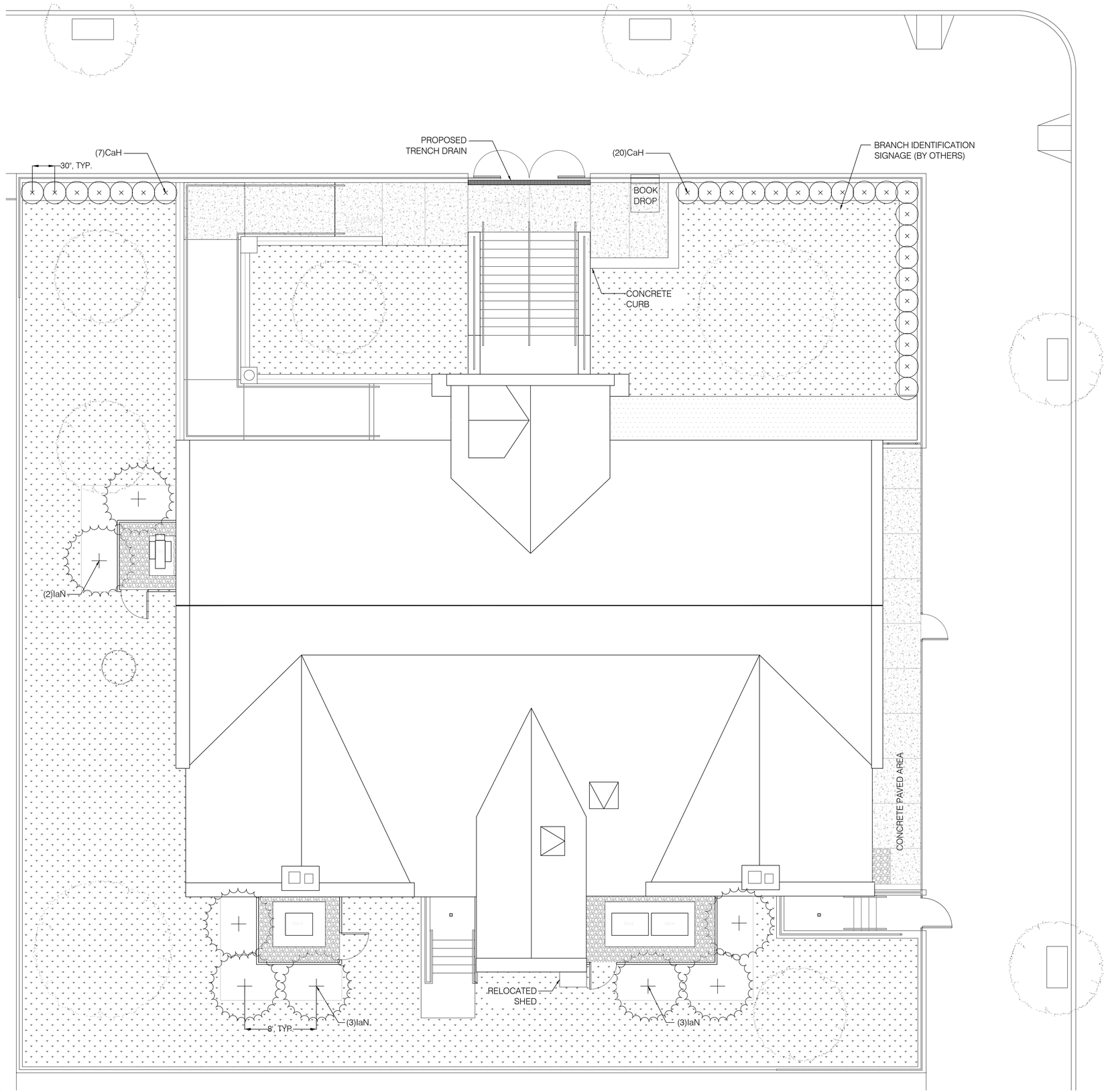
FOR THE:
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CONSTRUCTION DETAILS

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LEGEND:

PROPOSED EVERGREEN SHRUB (2 / L-2)

PROPOSED FLOWERING SHRUB (2 / L-2)

EXISTING TREE TO REMAIN

NOTE: ALL EXISTING STREET TREES ON SITE ARE TO BE PROTECTED WITH A WOOD TREE GUARD THROUGHOUT THE DURATION OF THE PROJECT. SEE LANDSCAPE DETAIL 4 FOR TREE GUARD CONSTRUCTION DETAIL.

EXISTING TURF

PROPOSED TURF

0 1' 5' 10'
Scale: 3/16" = 1'-0"

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360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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MANAGING AGENCY
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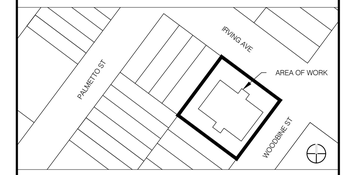
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FOR THE:
Brooklyn Public Library (BPL)

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PLANTING PLAN

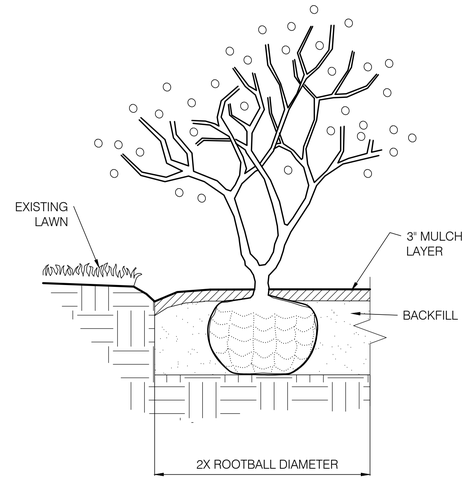
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REGISTERED LANDSCAPE ARCHITECT DAVID WILLET MCCONNELL 002386 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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CHECKED BY:	TM
DRAWING NUMBER:	L-1
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PLANT SCHEDULE						
SYM	#	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
CaH	27	Clethra alnifolia 'Hummingbird'	Dwarf Sweet Pepperbush	#5 Cont.	30" O.C.	heavy/full specimen
IaN	8	Ilex attenuata 'Nasa'	Nasa Holly	#3 Cont.	8' O.C.	2'-3' tall, heavy/ full specimen

1 PLANT SCHEDULE



SECTION

NOTES:
1. REMOVE TOP TWO THIRDS OF WIRE BASKET AND WRAP;
2. BACKFILL MATERIAL FOR TREE AND SHRUB PLANTING SHALL BE EXISTING SOIL UNLESS OTHERWISE DIRECTED;
3. PERENNIAL AND GROUNDCOVER PLANTING BEDS SHALL CONSIST OF A MINIMUM OF 9" OF NEW PLANTING SOIL.

2 SHRUB PLANTING

SCALE: 1" = 1'-0"

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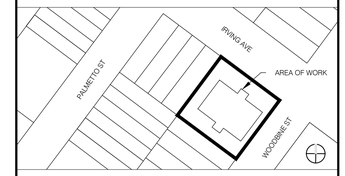
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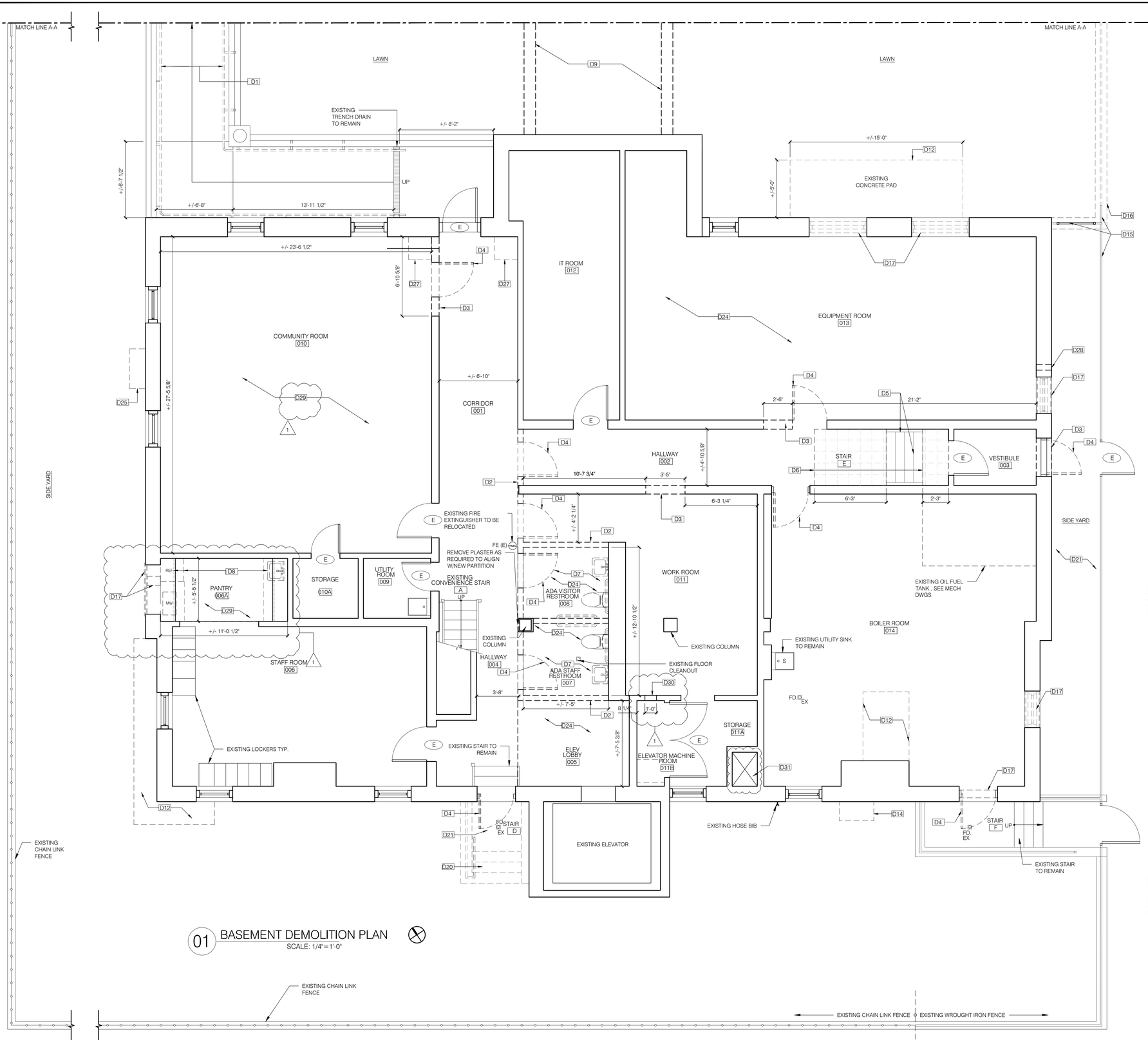
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DRAWING NUMBER:	L-2
CAD FILE No:	



01 BASEMENT DEMOLITION PLAN
SCALE: 1/4"=1'-0"

DEMOLITION LEGEND

- EXISTING PARTITION TO REMAIN, (FIELD VERIFY EXACT LOCATION)
- WALLS TO BE DEMOLISHED
- EXISTING DOOR AND FRAME TO BE REMOVED

DEMOLITION GENERAL NOTES

1. SALVAGE ALL AIR CONDITIONING UNITS AND OTHER EQUIPMENT, COORDINATE STORAGE W/ OWNER.
2. REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES.
3. ALL EXISTING CEILING-MOUNTED PIPING TO REMAIN U.O.N., COORDINATE WITH MEP DWGS.
4. PATCH AND REPAIR EXISTING CONCRETE SLAB AS REQUIRED TO RECEIVE NEW TOPPING.
5. COORDINATE ADDITIONAL REMOVAL OR REPLACEMENT OF EXISTING SLAB WITH NEW RPZ ASSEMBLY AND PIPING.
6. REMOVE ALL EXISTING ROOM SIGNS ADJACENT TO ALL EXISTING DOORS IN SCOPE AND TURN OVER TO OWNER FOR STORAGE.
7. EXISTING CLEANOUT TO BE REMOVED AND REINSTALLED

DEMOLITION KEY NOTES

D1 EXISTING HANDRAILS AND ASSOCIATED HARDWARE TO BE REMOVED

D2 REMOVE EXISTING WALLS FROM FLOOR TO UNDERSIDE OF SLAB ABOVE

D3 COORDINATE EXTENT OF REMOVAL OF WALL WITH STRUCTURAL/ EXTERIOR RESTORATION DRAWINGS TO ALLOW FOR NEW LINTEL/BEAM AT NEW OPENING.

D4 REMOVE EXISTING DOOR AND FRAME

D5 EXISTING CONCRETE STAIR TO REMAIN. STAIR FINISH, WALL BASE, WOODEN HANDRAILS & HARDWARE TO BE REMOVED

D6 EXTENT OF EXISTING FLOOR FINISH TO BE REMOVED

D7 REMOVE EXISTING PLUMBING FIXTURES AND ACCESSORIES, WALL AND FLOOR FINISHES

D8 REMOVE EXISTING COUNTERTOP, CABINETS, ACCESSORIES, SINK, KITCHEN APPLIANCES.

D9 EXISTING EXTERIOR STAIR AND MASONRY SIDEWALLS WITH LIMESTONE COPING TO BE DEMOLISHED. REMOVE ALL EXISTING HANDRAILS AND IRON FENCE ON THE SIDEWALLS. REFER TO STRUCTURAL DWGS FOR REMOVAL OF ASSOCIATED STAIR FOUNDATION AND FOOTINGS

D10 REMOVE ENTRY DOOR, HARDWARE AND FRAME. EXISTING BRONZE CLADDING TO BE REPLACED

D11 REMOVE EXISTING STOREFRONT TO BE REPLACED WITH NEW

D12 REMOVE EXISTING CONCRETE PAD

D13 REMOVE EXTENT OF EXISTING MASONRY WALL AND LIMESTONE COPING

D14 EXISTING STORAGE SHEDS TO BE RELOCATED

D15 FENCE AND GATE TO BE TEMPORARILY REMOVED AND REINSTALLED, SEE EXTERIOR RESTORATION DRAWINGS

D16 FOR REMOVAL AND REPLACEMENT OF EXISTING CURB AND FENCE, SEE EXTERIOR RESTORATION DRAWINGS

D17 EXISTING EXTERIOR METAL MESH COVER AND METAL SCREEN TO BE REMOVED. GC TO VERIFY EXISTING WALL ASSEMBLY PRIOR TO DEMOLITION OF WALL IN PREPARATION FOR INSTALLATION OF NEW LOUVER IN ACCORDANCE WITH MECHANICAL SCOPE OF WORK.

D18 EXTENT OF EXISTING RAMP AND LANDING TO BE DEMOLISHED AND REBUILT, REFER TO CIVIL DWGS.

D19 EXISTING BOOK DROP TO BE REMOVED AND STORED FOR RELOCATION .

D20 REMOVE EXISTING EXTERIOR STAIR, LANDING, CURB, AND RAILING. REFER TO STRUCTURAL DWGS.

D21 REMOVE EXISTING CONCRETE PAVING FOR FOUNDATION WATERPROOFING, SEE EXTERIOR RESTORATION DRAWINGS

D22 REFER TO STRUCTURAL DWGS FOR LOCATION OF FLOOR OPENINGS FOR PROPOSED DUCT RISERS

D23 EXISTING HIGH AND LOW BOOKSHELVES TO BE REMOVED PRIOR TO DEMOLITION OF FLOOR PENETRATIONS, PROTECTED AND STORED AND REINSTALLED AFTER INSTALLATION OF MECHANICAL DUCTS, COORDINATE W/ OWNER

D24 EXISTING LIGHT FIXTURES AND ACCESSORIES TO BE REMOVED; PATCH AND RESTORE EXISTING CEILING PLASTER AS REQUIRED.

D25 REMOVE EXISTING FAN AND CAGE

D26 REMOVE EXISTING CONCRETE PAVING FOR FOUNDATION WATERPROOFING, SEE EXTERIOR RESTORATION DRAWINGS

D27 SLAB DEMOLITION FOR INSTALLATION OF HSS POSTS / ANCHOR AT FOUNDATION

D28 COORDINATE OPENINGS WITH MECHANICAL REQUIREMENTS AND DRAWINGS

D29 EXISTING LIGHT FIXTURES AND ACCESSORIES TO BE REMOVED. PREPARE CEILING FOR NEW CEILING FINISH.

D30 PROVIDE 12"X6" OPENING FOR MECHANICAL VENT 6'AFF

D31 CONTRACTOR MUST VERIFY THE PRESENCE OF EXISTING BOOK LIFT IN FIELD AND REMOVE IF FOUND.

DOB APPROVAL STAMP

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ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
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EXTERIOR RESTORATION :
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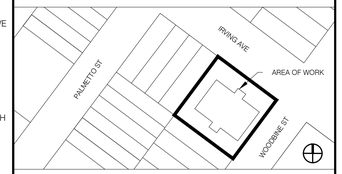
CIVIL ENGINEERS :
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35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
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LANDSCAPE ARCHITECT:
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KEY PLAN:



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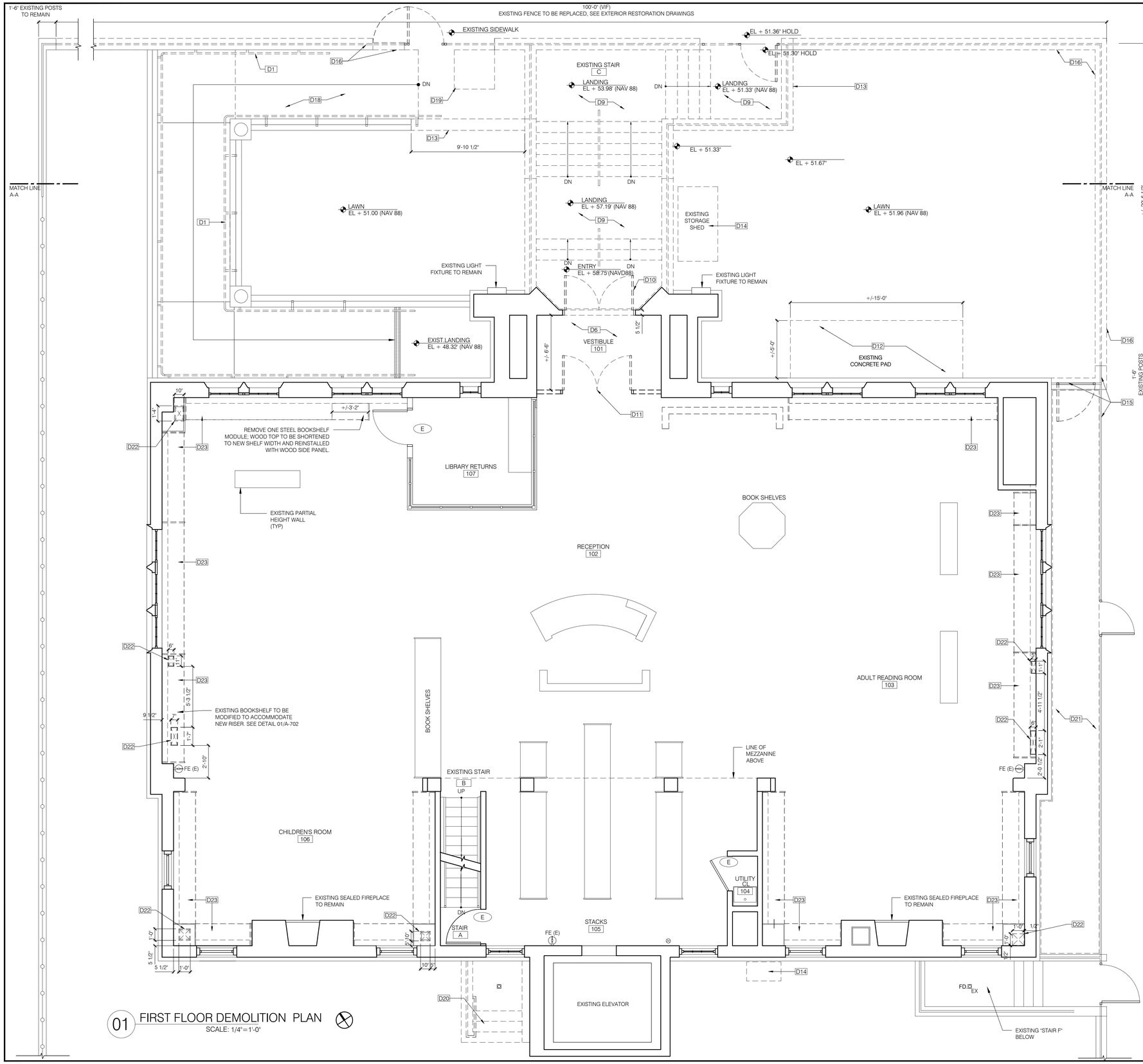
DRAWING TITLE:
DEMOLITION PLAN : BASEMENT

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 029228 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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01 OF 30



01 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/4"=1'-0"

DEMOLITION LEGEND

- EXISTING PARTITION TO REMAIN, (FIELD VERIFY EXACT LOCATION)
- WALLS TO BE DEMOLISHED
- EXISTING DOOR AND FRAME TO BE REMOVED

DEMOLITION GENERAL NOTES

1. SALVAGE ALL AIR CONDITIONING UNITS AND OTHER EQUIPMENT, COORDINATE STORAGE W/ OWNER.
2. REMOVE AND REPLACE ALL EXISTING LIGHT FIXTURES.
3. ALL EXISTING CEILING-MOUNTED PIPING TO REMAIN U.O.N., COORDINATE WITH MEP DWGS.
4. PATCH AND REPAIR EXISTING CONCRETE SLAB AS REQUIRED TO RECEIVE NEW TOPPING.
5. COORDINATE ADDITIONAL REMOVAL OR REPLACEMENT OF EXISTING SLAB WITH NEW RPZ ASSEMBLY AND PIPING.
6. REMOVE ALL EXISTING ROOM SIGNS ADJACENT TO ALL EXISTING DOORS IN SCOPE AND TURN OVER TO OWNER FOR STORAGE.
7. EXISTING CLEANOUT TO BE REMOVED AND REINSTALLED

DEMOLITION KEY NOTES

- D1 EXISTING HANDRAILS AND ASSOCIATED HARDWARE TO BE REMOVED
- D2 REMOVE EXISTING WALLS FROM FLOOR TO UNDERSIDE OF SLAB ABOVE
- D3 COORDINATE EXTENT OF REMOVAL OF WALL WITH STRUCTURAL/ EXTERIOR RESTORATION DRAWINGS TO ALLOW FOR NEW LINTEL/BEAM AT NEW OPENING.
- D4 REMOVE EXISTING DOOR AND FRAME
- D5 EXISTING CONCRETE STAIR TO REMAIN. STAIR FINISH, WALL BASE, WOODEN HANDRAILS & HARDWARE TO BE REMOVED
- D6 EXTENT OF EXISTING FLOOR FINISH TO BE REMOVED
- D7 REMOVE EXISTING PLUMBING FIXTURES AND ACCESSORIES, WALL AND FLOOR FINISHES
- D8 REMOVE EXISTING COUNTERTOP, CABINETS, ACCESSORIES, SINK, KITCHEN APPLIANCES.
- D9 EXISTING EXTERIOR STAIR AND MASONRY SIDEWALLS WITH LIMESTONE COPING TO BE DEMOLISHED. REMOVE ALL EXISTING HANDRAILS AND IRON FENCE ON THE SIDEWALLS. REFER TO STRUCTURAL DWGS FOR REMOVAL OF ASSOCIATED STAIR FOUNDATION AND FOOTINGS
- D10 REMOVE ENTRY DOOR, HARDWARE AND FRAME. EXISTING BRONZE CLADDING TO BE REPLACED
- D11 REMOVE EXISTING STOREFRONT TO BE REPLACED WITH NEW
- D12 REMOVE EXISTING CONCRETE PAD
- D13 REMOVE EXTENT OF EXISTING MASONRY WALL AND LIMESTONE COPING
- D14 EXISTING STORAGE SHEDS TO BE RELOCATED
- D15 FENCE AND GATE TO BE TEMPORARILY REMOVED AND REINSTALLED, SEE EXTERIOR RESTORATION DRAWINGS
- D16 FOR REMOVAL AND REPLACEMENT OF EXISTING CURB AND FENCE, SEE EXTERIOR RESTORATION DRAWINGS
- D17 EXISTING EXTERIOR METAL MESH COVER AND METAL SCREEN TO BE REMOVED. GC TO VERIFY EXISTING WALL ASSEMBLY PRIOR TO DEMOLITION OF WALL IN PREPARATION FOR INSTALLATION OF NEW LOUVER IN ACCORDANCE WITH MECHANICAL SCOPE OF WORK. △
- D18 EXTENT OF EXISTING RAMP AND LANDING TO BE DEMOLISHED AND REBUILT, REFER TO CIVIL DWGS. △
- D19 EXISTING BOOK DROP TO BE REMOVED AND STORED FOR RELOCATION .
- D20 REMOVE EXISTING EXTERIOR STAIR, LANDING, CURB, AND RAILING. REFER TO STRUCTURAL DWGS.
- D21 REMOVE EXISTING CONCRETE PAVING FOR FOUNDATION WATERPROOFING, SEE EXTERIOR RESTORATION DRAWINGS
- D22 REFER TO STRUCTURAL DWGS FOR LOCATION OF FLOOR OPENINGS FOR PROPOSED DUCT RISERS
- D23 EXISTING HIGH AND LOW BOOKSHELVES TO BE REMOVED PRIOR TO DEMOLITION OF FLOOR PENETRATIONS, PROTECTED AND STORED AND REINSTALLED AFTER INSTALLATION OF MECHANICAL DUCTS, COORDINATE W/ OWNER
- D24 EXISTING LIGHT FIXTURES AND ACCESSORIES TO BE REMOVED; PATCH AND RESTORE EXISTING CEILING PLASTER AS REQUIRED.
- D25 REMOVE EXISTING FAN AND CAGE
- D26 REMOVE EXISTING CONCRETE PAVING FOR FOUNDATION WATERPROOFING, SEE EXTERIOR RESTORATION DRAWINGS
- D27 SLAB DEMOLITION FOR INSTALLATION OF HSS POSTS / ANCHOR AT FOUNDATION
- D28 COORDINATE OPENINGS WITH MECHANICAL REQUIREMENTS AND DRAWINGS △
- D29 EXISTING LIGHT FIXTURES AND ACCESSORIES TO BE REMOVED. PREPARE CEILING FOR NEW CEILING FINISH.
- D30 PROVIDE 12"X6" OPENING FOR MECHANICAL VENT 6'AFF
- D31 CONTRACTOR MUST VERIFY THE PRESENCE OF EXISTING BOOK LIFT IN FIELD AND REMOVE IF FOUND.

DOB APPROVAL STAMP

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STRUCTURAL ENGINEERS :
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ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

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KEY PLAN:



NUMBER	DESCRIPTION	DATE
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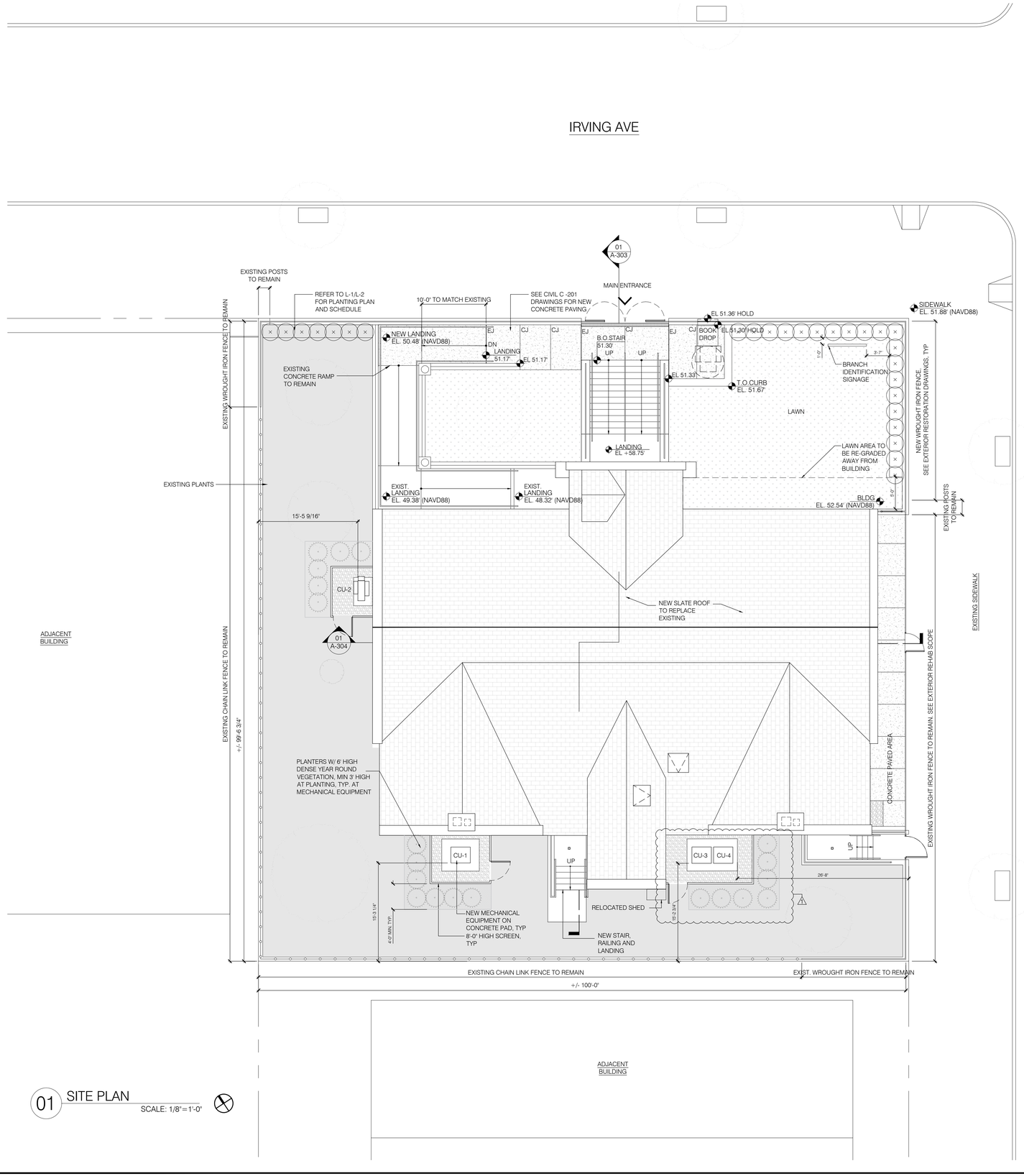
DRAWING TITLE:
DEMOLITION PLAN : FIRST FLOOR

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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CHECKED BY:	NP
DRAWING NUMBER:	DM-102.00
CAD FILE No:	

02 OF 30



01 SITE PLAN
SCALE: 1/8"=1'-0"

SITE PLAN LEGEND

- MAIN BUILDING ENTRANCE
- CJ CONTROL JOINT
- EJ EXPANSION JOINT
- EXISTING PROPERTY LINE

GENERAL NOTES

1. REFER TO EXTERIOR RESTORATION DRAWINGS FOR FENCE / EXTERIOR ENVELOPE REPAIRS AND ROOF REPLACEMENT
2. REFER TO CIVIL DRAWINGS FOR SITE WORK AND REGRADING
3. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT

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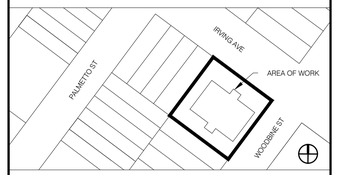
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35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
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40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
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KEY PLAN:



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1	Addendum 1	08-05-2026

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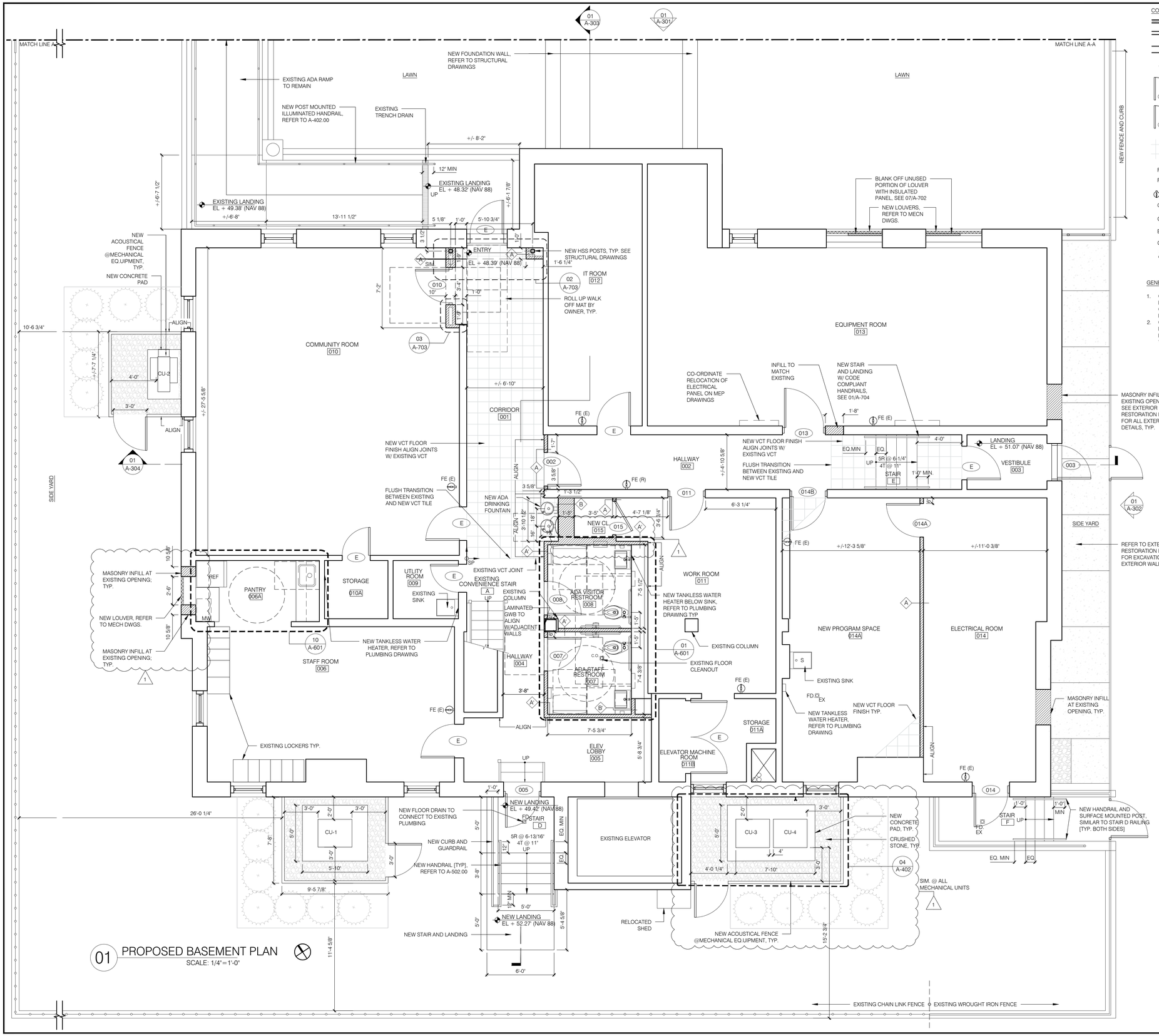
DRAWING TITLE:
PROPOSED SITE PLAN

DOB APPROVAL STAMP

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REGISTERED ARCHITECT NANDINEE PHOOKAN P.A. 025228 STATE OF NEW YORK

DATE:	03.11.2024
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01 PROPOSED BASEMENT PLAN
SCALE: 1/4"=1'-0"

CONSTRUCTION LEGEND

- NEW FULL HEIGHT WALL/ PARTITION
- EXISTING WALL/ PARTITION TO REMAIN
- NEW MASONRY WALL
- PARTITION TYPE
- EXISTING DOOR TO REMAIN
- NEW DOOR
- NEW VCT TILE
- FD. NEW FLOOR DRAIN
- FD. EX EXISTING FLOOR DRAIN
- FE (E) FIRE EXTINGUISHER (WALL-MOUNTED)
- C.O. EXISTING FLOOR CLEANOUT
- CJ CONTROL JOINT
- EJ EXPANSION JOINT
- CU NEW CONDENSING UNIT
- SP STARTING POINT

GENERAL NOTES

1. CONTRACTOR TO RE-INSTALL INTERIOR SIGNS PER ADA COMPLIANT HEIGHTS AFTER COMPLETION OF WORK - REFER TO G-002.00 FOR MOUNTING HEIGHTS.
2. CONTRACTOR TO COORDINATE PARTIAL WALL REMOVAL AND OPENINGS ACROSS TRADES FOR ALL NEW DUCTWORK. SEAL AND FIRESTOP WHERE REQUIRED.

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ARCHITECT:
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MEP ENGINEER:
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5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
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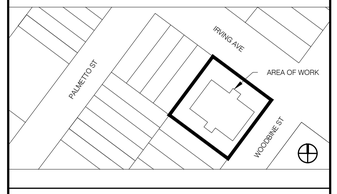
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PROPOSED PLAN : BASEMENT

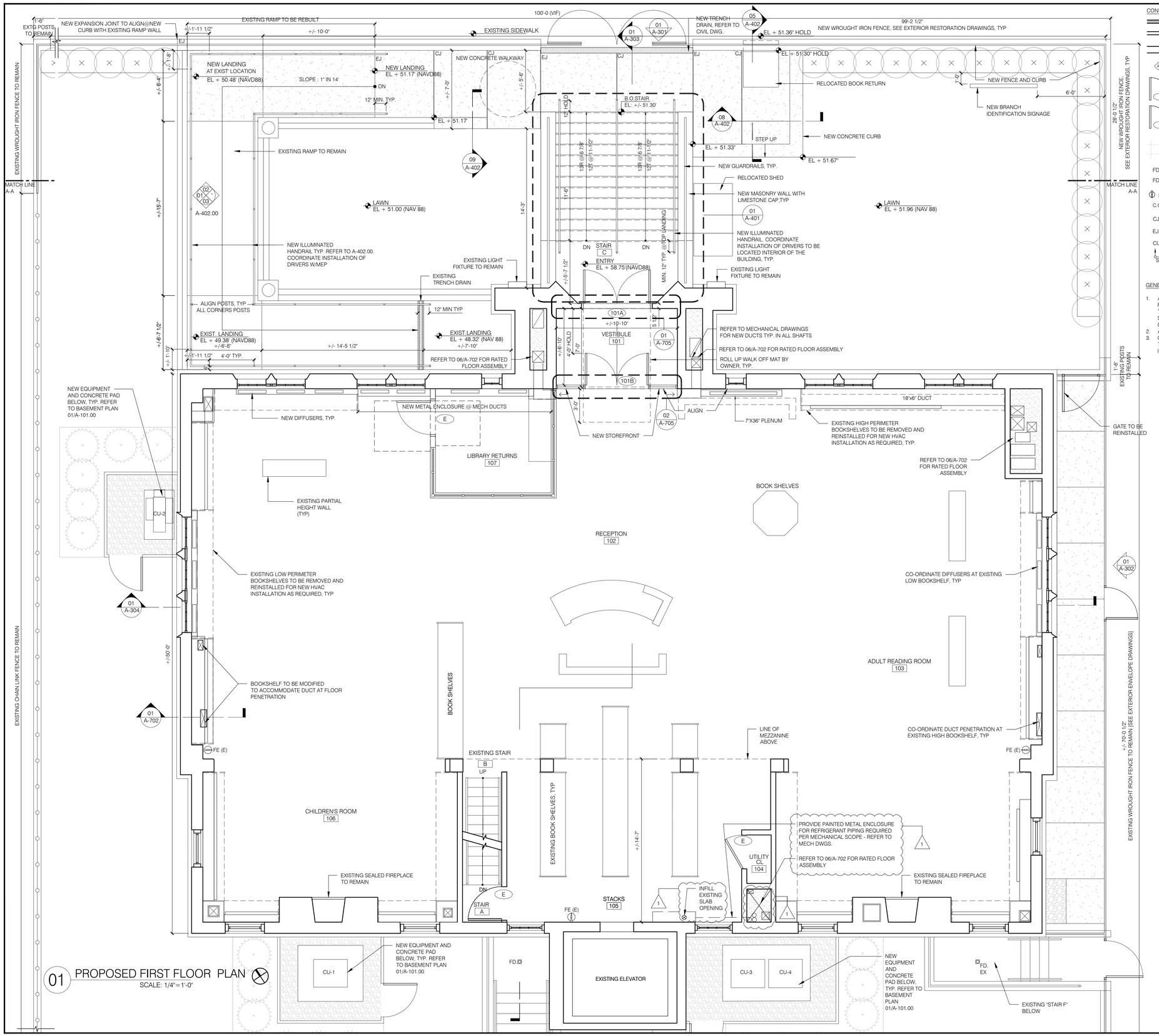
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REGISTERED ARCHITECT NANDINEE PHOOKAN 025226 STATE OF NEW YORK

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DRAWING NUMBER:	A-101.00
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04 OF 30



01 PROPOSED FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"

CONSTRUCTION LEGEND

- NEW FULL HEIGHT WALL/ PARTITION
- EXISTING WALL/ PARTITION TO REMAIN
- NEW MASONRY WALL
- PARTITION TYPE
- EXISTING DOOR TO REMAIN
- NEW DOOR
- NEW VCT TILE
- FD. NEW FLOOR DRAIN
- FD. EX EXISTING FLOOR DRAIN
- FE (E) FIRE EXTINGUISHER (WALL-MOUNTED)
- C.O. EXISTING FLOOR CLEANOUT
- CJ CONTROL JOINT
- EJ EXPANSION JOINT
- CU NEW CONDENSING UNIT
- SP STARTING POINT

GENERAL NOTES

1. ALL EXISTING BOOK SHELVES TO BE MOVED FOR REMOVAL OF EXISTING PERIMETER FIN TUBES IN PREPARATION FOR NEW MEP SYSTEMS [TYPICAL ALONG ENTIRE PERIMETER OF FIRST FLOOR [REFER TO MEP DRAWINGS]
2. ALLOW FOR CORE DRILLING OF NEW PIPING
3. GC TO COORDINATE PARTIAL WALL REMOVAL TO ALLOW FOR NEW DUCT PENETRATIONS INCLUDING FIRE STOPPING AS REQUIRED.

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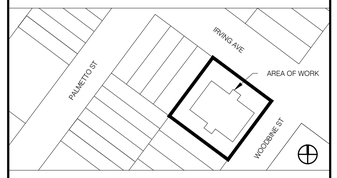
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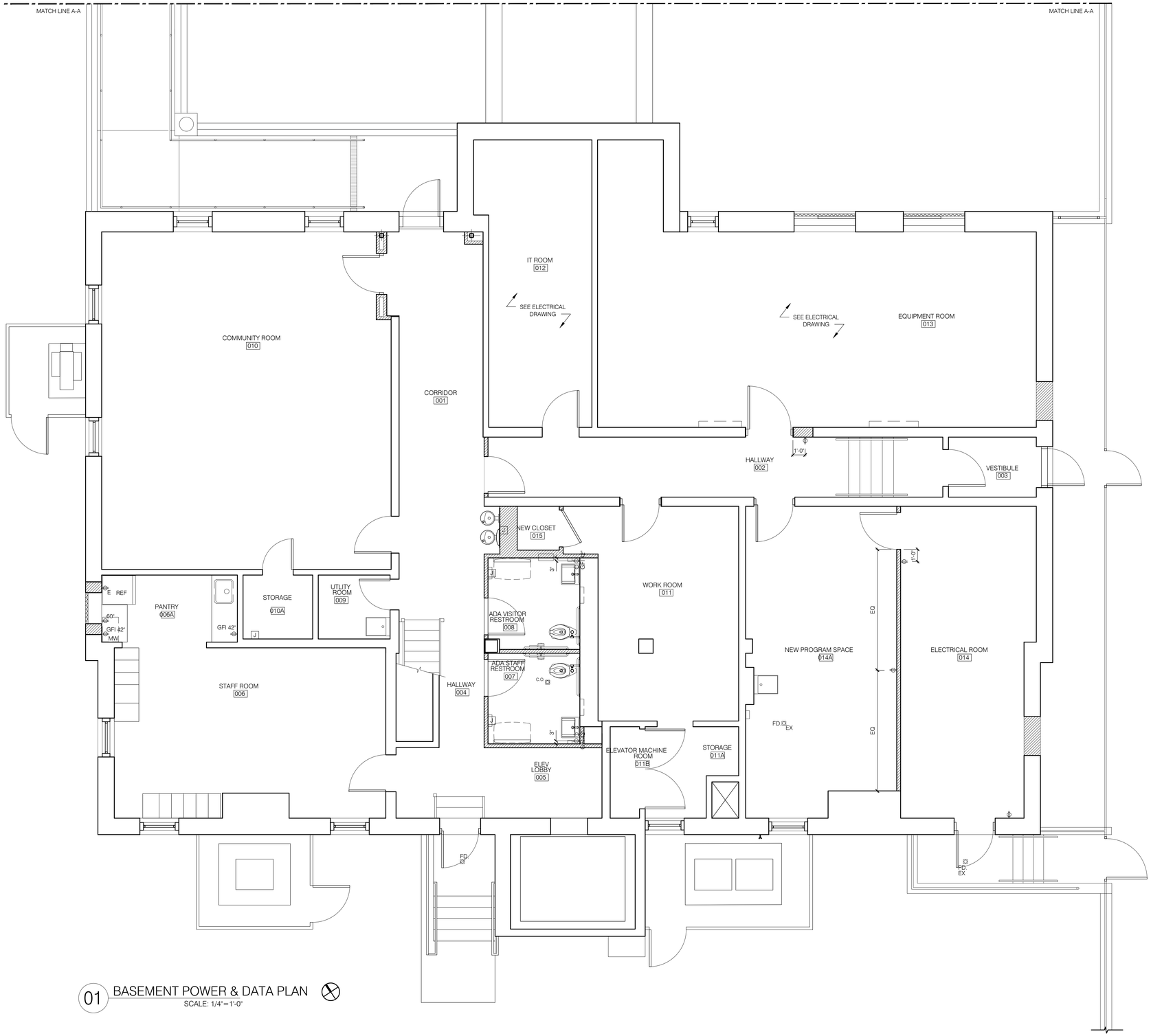
DRAWING TITLE:
PROPOSED PLAN : FIRST FLOOR

DOB APPROVAL STAMP

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 023235 STATE OF NEW YORK

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PROJECT NO:	LBP21WIBR
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CHECKED BY:	NP
DRAWING NUMBER:	A-102.00
CAD FILE No:	



01 BASEMENT POWER & DATA PLAN

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

ELECTRICAL SYMBOLS

- NEW DEDICATED OUTLET
- E EXISTING DUPLEX OUTLET
- DUPLEX OUTLET
- GFI GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- J PROVIDE AND INSTALL WALL MOUNTED JUNCTION BOX

POWER & DATA GENERAL NOTES:

1. G.C. TO ENSURE ALL EXISTING ELECTRICAL OUTLETS, NOT SHOWN ON DRAWING, TO REMAIN AS IS.
2. REFER TO G-002.00 FOR ALL OUTLETS LOCATION U.O.N.
3. CONTRACTOR TO PROVIDE GFI OUTLETS @ ALL WET AREAS.
4. SEE DIAGRAM OF TYPICAL DEVICE LOCATION AND MOUNTING HEIGHTS ON SHEET G-002.
5. COORDINATE ALL DEVICE LOCATIONS (INCLUDING FIRE ALARM DEVICES) PRIOR TO INSTALLATION.
6. ALL DIMENSIONS TO BE CENTERLINE OF DEVICES U.O.N.
7. G.C. TO INSTALL AND PROVIDE FIRE RETARDANT PLYWOOD BLOCKING AT ALL WALL MOUNTED EQUIPMENT AND ELECTRICAL PANELS AS PER ELECTRICAL DRAWINGS.
8. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION INCLUDED AS PART OF THIS CONTRACT.
9. CONTRACTOR TO PROVIDE POWER TO ALL DEVICES INCLUDING SENSORS.
10. PROVIDE JUNCTION BOX TO CONNECT NEW DRINKING FOUNTAIN & ELECTRICAL WATER HEATERS

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360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

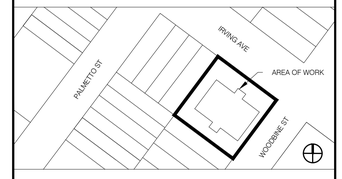
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

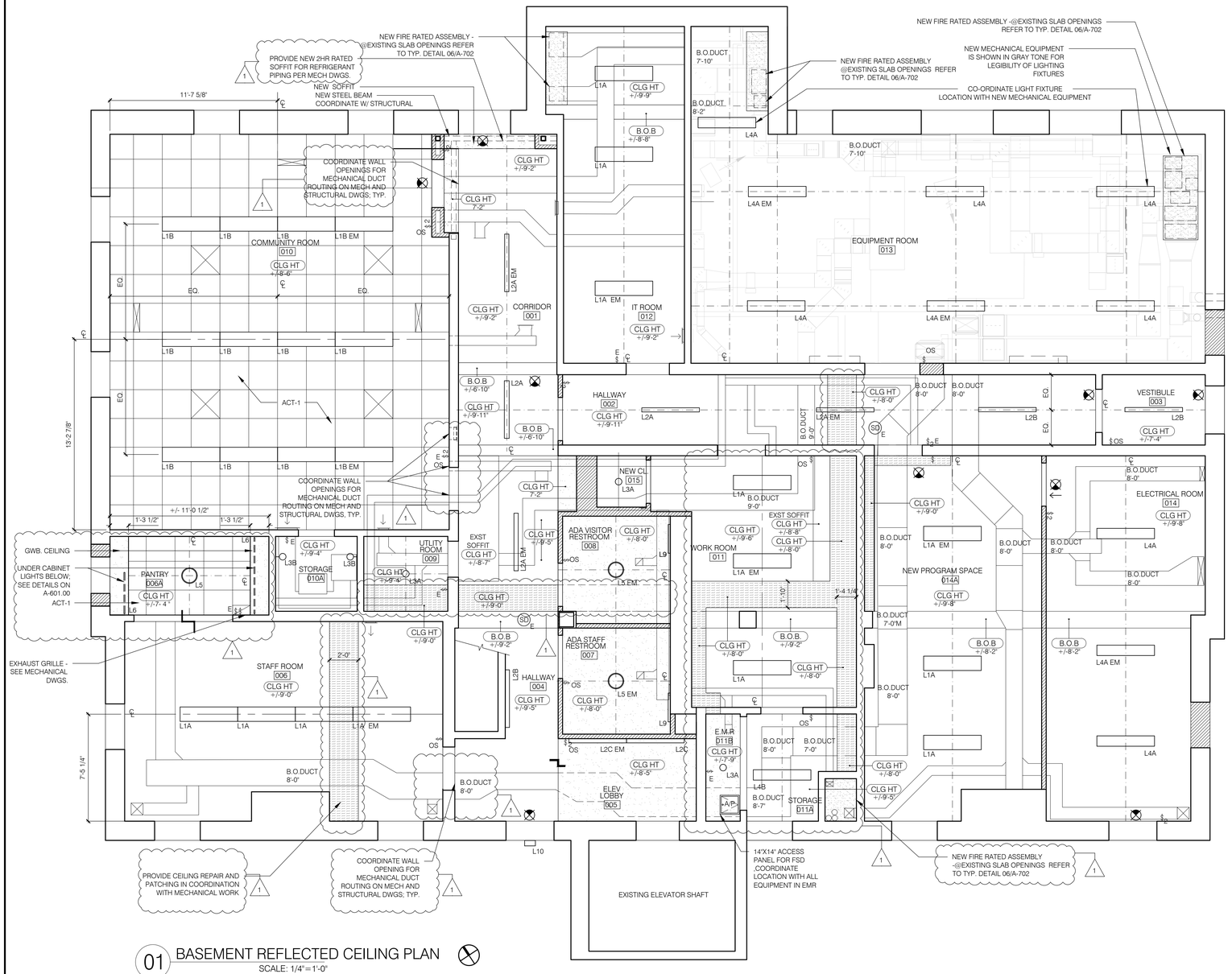
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
POWER & DATA PLAN : BASEMENT

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 031378 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-111.00
CAD FILE No:	



01 BASEMENT REFLECTED CEILING PLAN

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

RCP GENERAL NOTES

1. PATCH AND REPAIR ALL SLAB, WALL, AND COLUMN PENETRATIONS DAMAGED DURING CONSTRUCTION WHERE RATINGS ARE COMPROMISED, PROVIDE AN APPROVED FIRESTOPPING SYSTEM AND CLOSE AFTER IT HAS BEEN INSPECTED
2. FOR EQUIPMENT REQUIREMENTS, REFER TO MECHANICAL DRAWINGS.
3. ALL EXPOSED CEILINGS AND COLUMNS TO BE PAINTED - SEE SPECIFICATIONS AND FINISH SCHEDULE.
4. CLEAN EXISTING WALLS AND CEILINGS. ANY DEBRIS AND OIL STAINS MUST BE REMOVED IN PREPARATION OF NEW FINISHES.
5. CAULK AND SEAL ALL THRU-WALL PENETRATIONS (TYP. BOTH SIDES).
6. CONTRACTOR TO PARTIALLY REMOVED WALL/FLOOR TO BE COORDINATED WITH REMOVAL AND INSTALLATION OF NEW DUCT WORK.
7. PAINT ALL EXPOSED NEW DUCTS TO MATCH CEILING COLOR [WHITE]
8. SEAL ALL DUCTS PRIOR TO APPLYING NEW PAINT.
9. CONTRACTOR TO UTILIZE STEM MOUNTED FIXTURES WHERE SURFACE / CEILING MOUNTED FIXTURES HAVE BEEN SPECIFIED BUT CANNOT BE INSTALLED.
10. FOR LOCATION OF OCCUPANCY SENSORS, REFER TO ELECTRICAL DRAWINGS

RCP LEGEND

- NEW FULL HEIGHT WALL/ PARTITION
- EXISTING WALL/ PARTITION TO REMAIN
- CLG HT X'-X" — CEILING HEIGHT
- NEW EXIT SIGN
- (SD)E — EXISTING CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED SUPPLY DIFFUSER
- CEILING MOUNTED RETURN DIFFUSER
- FE (E) — FIRE EXTINGUISHER (WALL-MOUNTED)
- NEW GWB CEILING
- NEW ACT TILE
- AP — NEW ACCESS PANEL
- NEW 2HR RATED ENCLOSURE
- $E — EXISTING ELECTRICAL SWITCH
- $ — NEW ELECTRICAL SWITCH
- $2 — TWO-WAY ELECTRICAL SWITCH
- $OS — ELECTRICAL SWITCH WITH OCCUPANCY SENSOR

LIGHTING FIXTURE SCHEDULE

[REFER TO DETAILED LIGHTING SCHEDULE ON ELECTRICAL DRAWINGS]

FIXTURE	SYMBOL	MOUNTING HEIGHT	DESCRIPTION
L1A	L1A / EM	STEM MOUNTED - MOUNTING HTG TO BE COORDINATED WITH DUCTS AND REVIEWED WITH ARCHITECT PRIOR TO INSTALLATION	1'-0" X 4'-0" SURFACE CEILING MOUNTED LED LIGHT FIXTURE BY LITHONIA LIGHTING
L1B	L1B / EM	CEILING MOUNTED, REFER TO CLG HT	1'-0" X 4'-0" RECESSED CEILING MOUNTED LED LIGHT FIXTURE BY LITHONIA LIGHTING
L2A	L2A / EM	9'-0" FROM FINISHED FLOOR	0'-3 1/2" X 4'-0" SLOT 4 PENDANT LED DOWNLIGHT BY MARK ARCHITECTURAL LIGHTING
L2B	L2B	CEILING MOUNTED TYP.; 9'-0" AFF @HALLWAY 004	0'-3 1/2" X 4'-0" SLOT 4 SURFACE CEILING MOUNTED LED DOWNLIGHT BY MARK ARCHITECTURAL LIGHTING
L2C	L2C / EM	WALL MOUNTED 8'-0" AFF	0'-3 1/2" X 4'-0" SLOT 4 SURFACE WALL MOUNTED LED DOWNLIGHT BY MARK ARCHITECTURAL LIGHTING
L3A	L3A	CEILING MOUNTED; VIF	LED VAPOR TIGHT CEILING MOUNTED BY LITHONIA LIGHTING
L3B	L3B	WALL MOUNTED 8'-6" AFF	LED VAPOR TIGHT WALL MOUNTED BY LITHONIA LIGHTING
L4A	L4A / EM	STEM MOUNTED IN LOCATIONS WHERE SURFACE MOUNT IS NOT POSSIBLE. GC TO VERIFY AND COORDINATE IN FIELD	CEILING MOUNTED SQUARE-BASKET LED WRAPAROUND BY LITHONIA LIGHTING

FIXTURE	SYMBOL	MOUNTING HEIGHT	DESCRIPTION
L4B	L4B	8'-3" AFF; GC TO VIF AND COORDINATE W/MECH DUCTS	PENDANT CEILING MOUNTED SQUARE-BASKET LED WRAPAROUND
L5	L5	CEILING MOUNTED, REFER TO CLG HT	SLIMFORM LED SURFACE MOUNT DOWNLIGHT BY JUNO
L6	L6	UNDERCABINET, REFER TO A-601.00	SWITCHABLE WHITE LED UNDERCABINET BY JUNO
L7A	L7A	MATCH HEIGHTS WITH EXISTING LIGHT FIXTURE, REFER TO A-303.00	BRUNO LED SOFTSHINE BY PEERLESS LIGHTING
L7B	L7B / EM	MATCH HEIGHTS WITH EXISTING LIGHT FIXTURE, REFER TO A-303.00	BRUNO LED SOFTSHINE BY PEERLESS LIGHTING
L7C	L7C / EM	MATCH HEIGHTS WITH EXISTING LIGHT FIXTURE, REFER TO A-303.00	BRUNO LED SOFTSHINE BY PEERLESS LIGHTING
L8	L8	INTEGRATED WITH HANDRAILS	EXTERIOR POLE MOUNTED LED HANDRAIL FIXTURE BY COLE LIGHTING
L9	L9	BOTTOM OF REFLECTIVE SURFACE TO BE 40" AFF MAX.	RECTANGULAR CUSTOMIZED LED ILLUMINATED MIRROR BY REFLECTIVE LIGHTING
L10	L10	8'-0" FROM FINISHED FLOOR	EXTERIOR LED WALL PACK BY MORRIS OR SIMILAR TO EXISTING
EXIT		REFER TO G-002.000	EXITRONIC NEW YORK CITY APPROVED TRULY UNIVERSAL LED EDGE-LIT EXIT SIGN

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

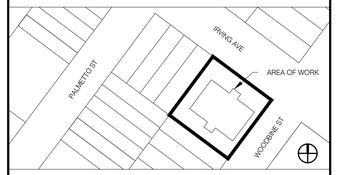
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

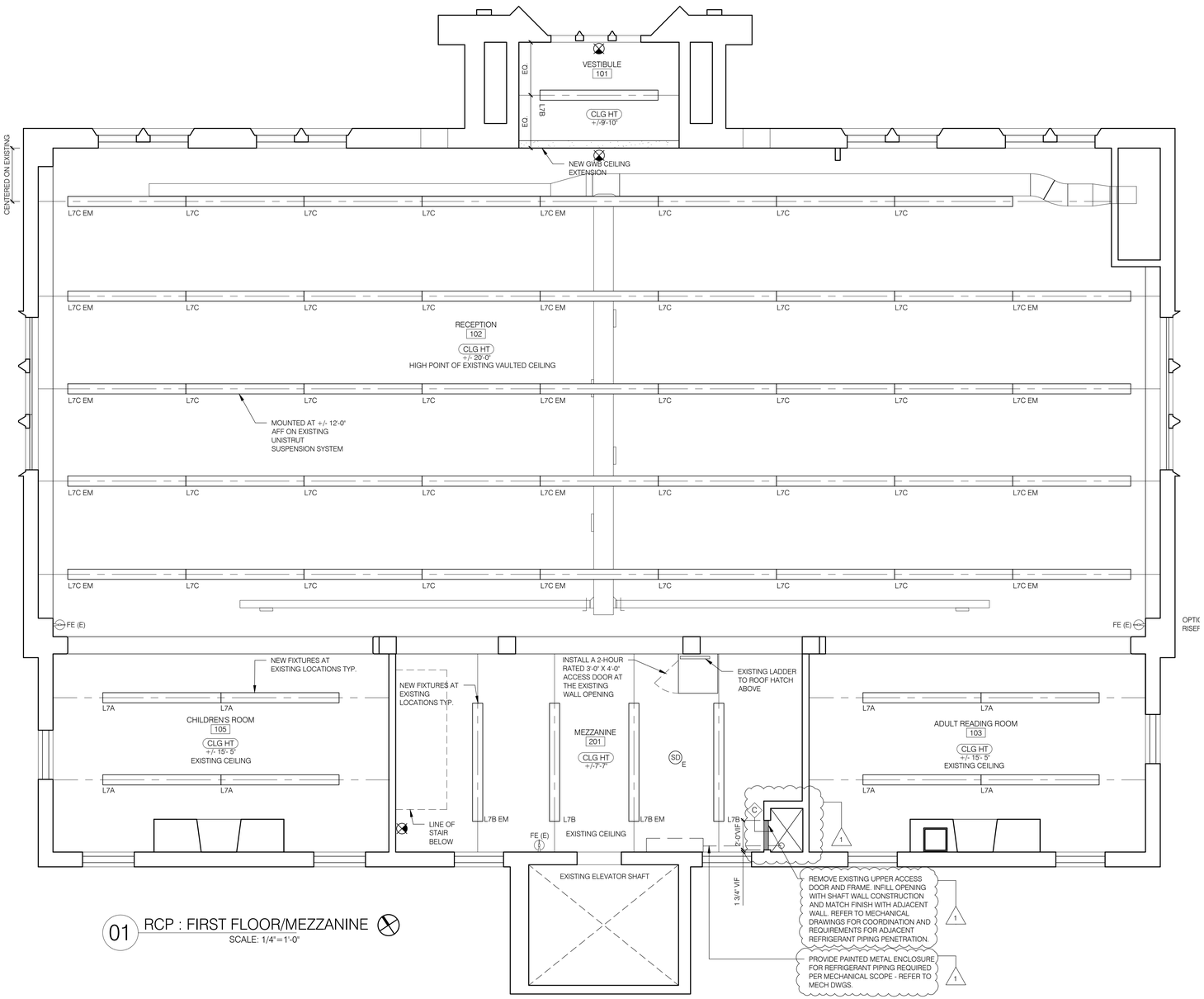
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
REFLECTED CEILING PLAN : BASEMENT

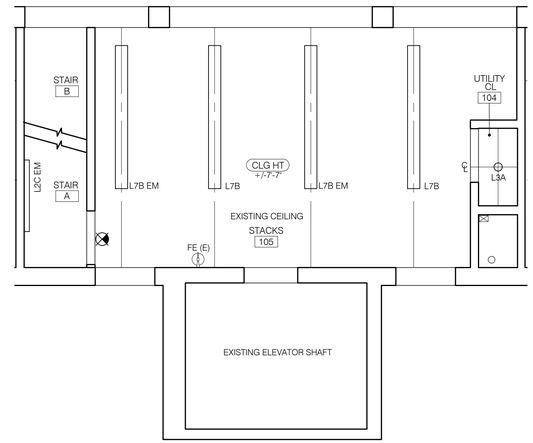
SEAL & SIGNATURE

NANDINEE PHOOKAN REGISTERED ARCHITECT 023226 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-201.00
CAD FILE No:	07 OF 30



01 RCP : FIRST FLOOR/MEZZANINE
SCALE: 1/4"=1'-0"



02 RCP : STACKS BELOW MEZZANINE
SCALE: 1/4"=1'-0"

RCP GENERAL NOTES

1. PATCH AND REPAIR ALL SLAB, WALL, AND COLUMN PENETRATIONS DAMAGED DURING CONSTRUCTION WHERE RATINGS ARE COMPROMISED, PROVIDE AN APPROVED FIRESTOPPING SYSTEM AND CLOSE AFTER IT HAS BEEN INSPECTED
2. FOR EQUIPMENT REQUIREMENTS, REFER TO MECHANICAL DRAWINGS.
3. ALL EXPOSED CEILINGS AND COLUMNS TO BE PAINTED - SEE SPECIFICATIONS AND FINISH SCHEDULE.
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8. SEAL ALL DUCTS PRIOR TO APPLYING NEW PAINT.
9. CONTRACTOR TO UTILIZE STEM MOUNTED FIXTURES WHERE SURFACE / CEILING MOUNTED FIXTURES HAVE BEEN SPECIFIED BUT CANNOT BE INSTALLED.

RCP LEGEND

- NEW FULL HEIGHT WALL/ PARTITION
- EXISTING WALL/ PARTITION TO REMAIN
- CLG HT X'-X" — CEILING HEIGHT
- NEW EXIT SIGN
- SD E — EXISTING CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED SUPPLY DIFFUSER
- CEILING MOUNTED RETURN DIFFUSER
- FE (E) — FIRE EXTINGUISHER (WALL-MOUNTED)
- NEW GWB CEILING
- NEW ACT TILE
- NEW ACCESS PANEL
- NEW 2HR RATED ENCLOSURE
- $_E — EXISTING ELECTRICAL SWITCH
- $ — NEW ELECTRICAL SWITCH
- $_2 — TWO-WAY ELECTRICAL SWITCH
- $_OS — ELECTRICAL SWITCH WITH OCCUPANCY SENSOR

LIGHTING FIXTURE SCHEDULE

[REFER TO DETAILED LIGHTING SCHEDULE ON ELECTRICAL DRAWINGS]

FIXTURE	SYMBOL	MOUNTING HEIGHT	DESCRIPTION
L1A	L1A / EM	STEM MOUNTED - MOUNTING HTG TO BE COORDINATED WITH DUCTS AND REVIEWED WITH ARCHITECT PRIOR TO INSTALLATION	1'-0" X 4'-0" SURFACE CEILING MOUNTED LED LIGHT FIXTURE BY LITHONIA LIGHTING
L1B	L1B / EM	CEILING MOUNTED, REFER TO CLG HT	1'-0" X 4'-0" RECESSED CEILING MOUNTED LED LIGHT FIXTURE BY LITHONIA LIGHTING
L2A	L2A / EM	9'-0" FROM FINISHED FLOOR	0'-3 1/2" X 4'-0" SLOT 4 PENDANT LED DOWNLIGHT BY MARK ARCHITECTURAL LIGHTING
L2B	L2B	CEILING MOUNTED TYP.; 9'-0" AFF @HALLWAY 004	0'-3 1/2" X 4'-0" SLOT 4 SURFACE CEILING MOUNTED LED DOWNLIGHT BY MARK ARCHITECTURAL LIGHTING
L2C	L2C / EM	WALL MOUNTED 8'-0" AFF	0'-3 1/2" X 4'-0" SLOT 4 SURFACE WALL MOUNTED LED DOWNLIGHT BY MARK ARCHITECTURAL LIGHTING
L3A	L3A	CEILING MOUNTED; VIF	LED VAPOR TIGHT CEILING MOUNTED BY LITHONIA LIGHTING
L3B	L3B	WALL MOUNTED 8'-6" AFF	LED VAPOR TIGHT WALL MOUNTED BY LITHONIA LIGHTING
L4A	L4A / EM	STEM MOUNTED IN LOCATIONS WHERE SURFACE MOUNT IS NOT POSSIBLE. GC TO VERIFY AND COORDINATE IN FIELD	CEILING MOUNTED SQUARE-BASKET LED WRAPAROUND BY LITHONIA LIGHTING

FIXTURE	SYMBOL	MOUNTING HEIGHT	DESCRIPTION
L4B	L4B	8'-3" AFF; GC TO VIF AND COORDINATE W/MECH DUCTS	PENDANT CEILING MOUNTED SQUARE-BASKET LED WRAPAROUND
L5	L5	CEILING MOUNTED, REFER TO CLG HT	SLIMFORM LED SURFACE MOUNT DOWNLIGHT BY JUNO
L6	L6	UNDERCABINET, REFER TO A-601.00	SWITCHABLE WHITE LED UNDERCABINET BY JUNO
L7A	L7A	MATCH HEIGHTS WITH EXISTING LIGHT FIXTURE, REFER TO A-303.00	BRUNO LED SOFTSHINE BY PEERLESS LIGHTING
L7B	L7B / EM	MATCH HEIGHTS WITH EXISTING LIGHT FIXTURE, REFER TO A-303.00	BRUNO LED SOFTSHINE BY PEERLESS LIGHTING
L7C	L7C / EM	MATCH HEIGHTS WITH EXISTING LIGHT FIXTURE, REFER TO A-303.00	BRUNO LED SOFTSHINE BY PEERLESS LIGHTING
L8	L8	INTEGRATED WITH HANDRAILS	EXTERIOR POLE MOUNTED LED HANDRAIL FIXTURE BY COLE LIGHTING
L9	L9	BOTTOM OF REFLECTIVE SURFACE TO BE 40" AFF MAX.	RECTANGULAR CUSTOMIZED LED ILLUMINATED MIRROR BY REFLECTIVE LIGHTING
L10	L10	8'-0" FROM FINISHED FLOOR	EXTERIOR LED WALL PACK BY MORRIS OR SIMILAR TO EXISTING
EXIT		REFER TO G-002.000	EXITRONIC NEW YORK CITY APPROVED TRULY UNIVERSAL LED EDGE-LIT EXIT SIGN

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

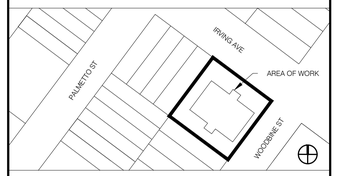
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
REFLECTED CEILING PLAN : FIRST FLOOR & MEZZANINE

DOB APPROVAL STAMP

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 035226 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-202.00
CAD FILE No:	

GENERAL NOTES

1. REFER TO EXTERIOR RESTORATION DRAWINGS FOR FENCE / EXTERIOR ENVELOPE REPAIRS AND ROOF REPLACEMENT
2. REFER TO CIVIL DRAWINGS FOR SITE WORK AND REGRADING
3. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT



01 PROPOSED NORTH ELEVATION W/ NEW STAIR AND FENCE
SCALE: 1/4"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

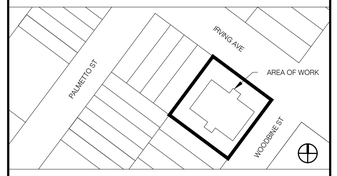
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

NYC DDC Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
BUILDING ELEVATION : NORTH

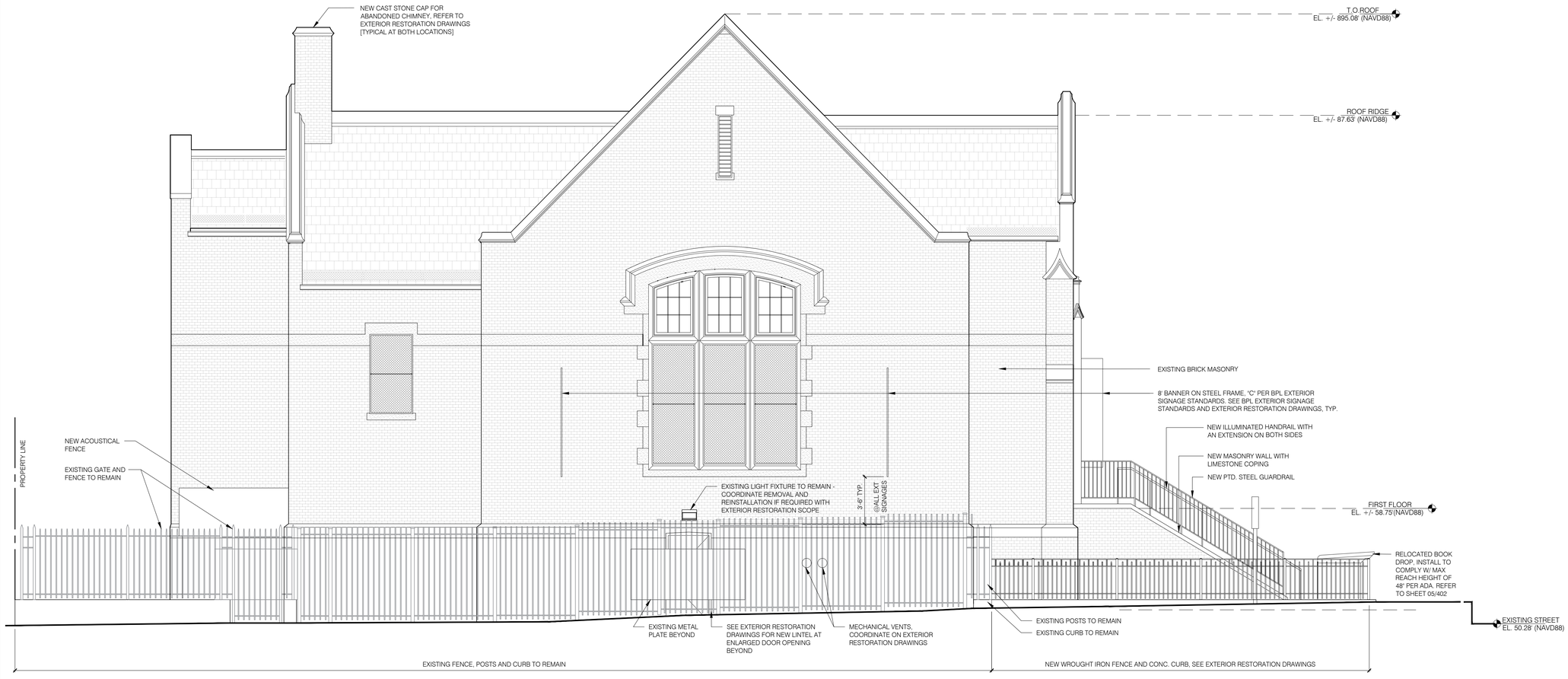
SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 028478 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-301.00
CAD FILE No:	

GENERAL NOTES

1. REFER TO EXTERIOR RESTORATION DRAWINGS FOR FENCE / EXTERIOR ENVELOPE REPAIRS AND ROOF REPLACEMENT
2. REFER TO CIVIL DRAWINGS FOR SITE WORK AND REGRADING
3. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT



01 PROPOSED EAST ELEVATION
SCALE: 1/4"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
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EXTERIOR RESTORATION :
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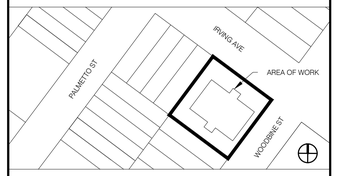
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ACOUSTICS/SECURITY/TELECOM:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
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Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

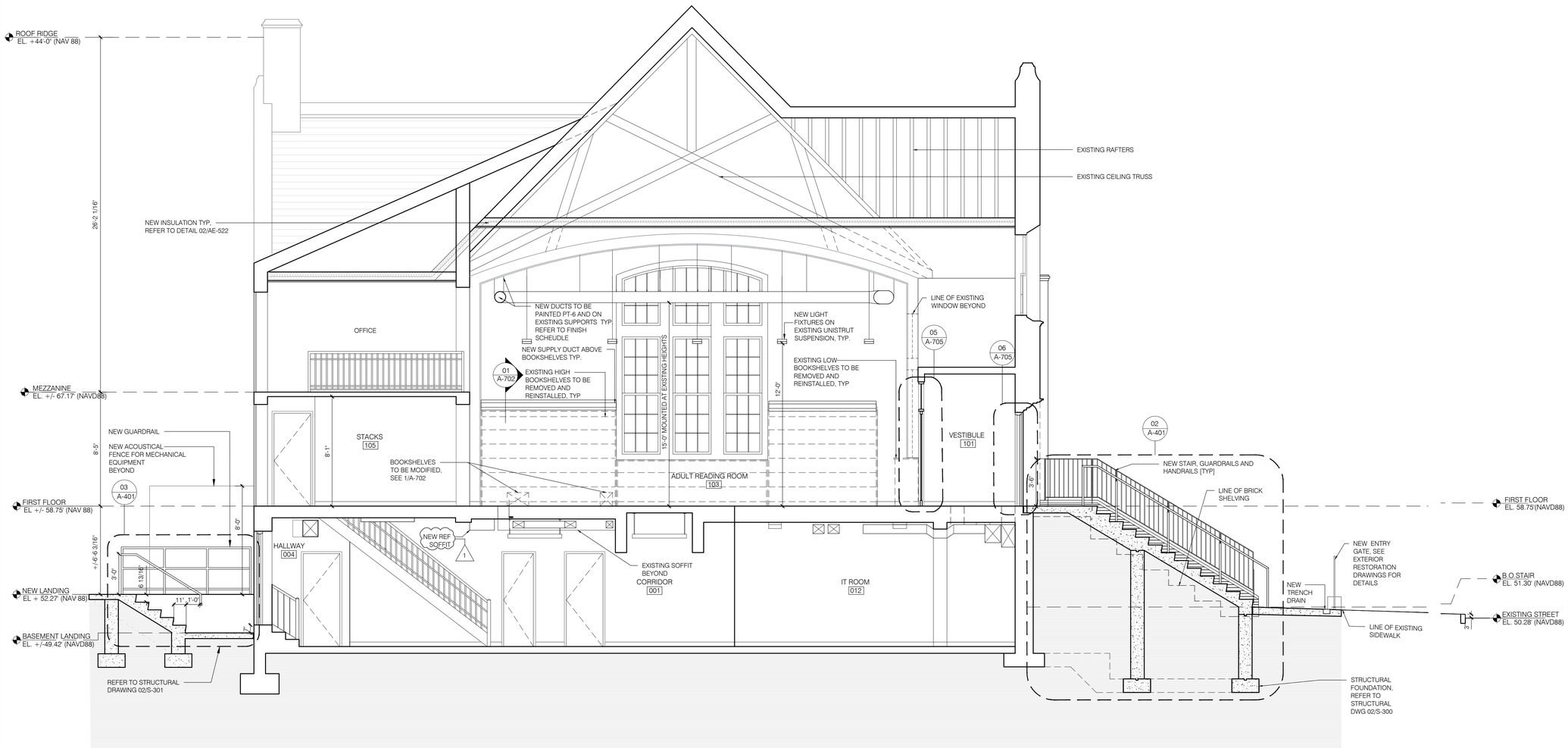
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
BUILDING ELEVATION : EAST

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 026324 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-302.00
CAD FILE No:	



01 BUILDING SECTION
SCALE: 1/4" = 1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

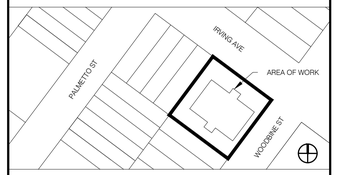
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

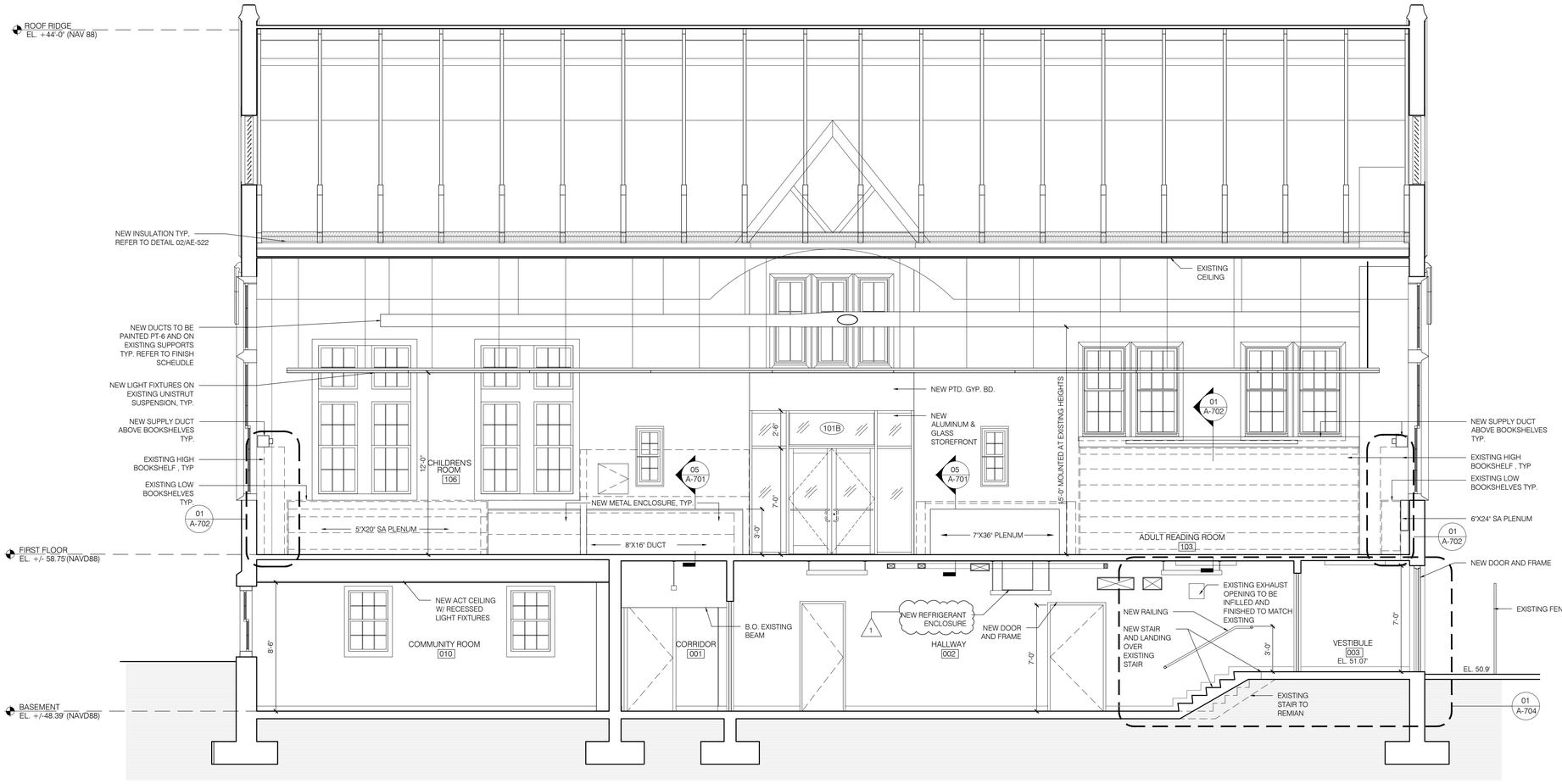
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
BUILDING SECTION

SEAL & SIGNATURE

REGISTERED ARCHITECT
NANDINEE PHOOKAN
025225
STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-303.00
CAD FILE No:	



01 BUILDING SECTION
SCALE: 1/4"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

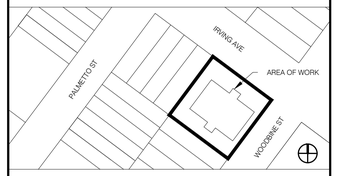
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
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Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

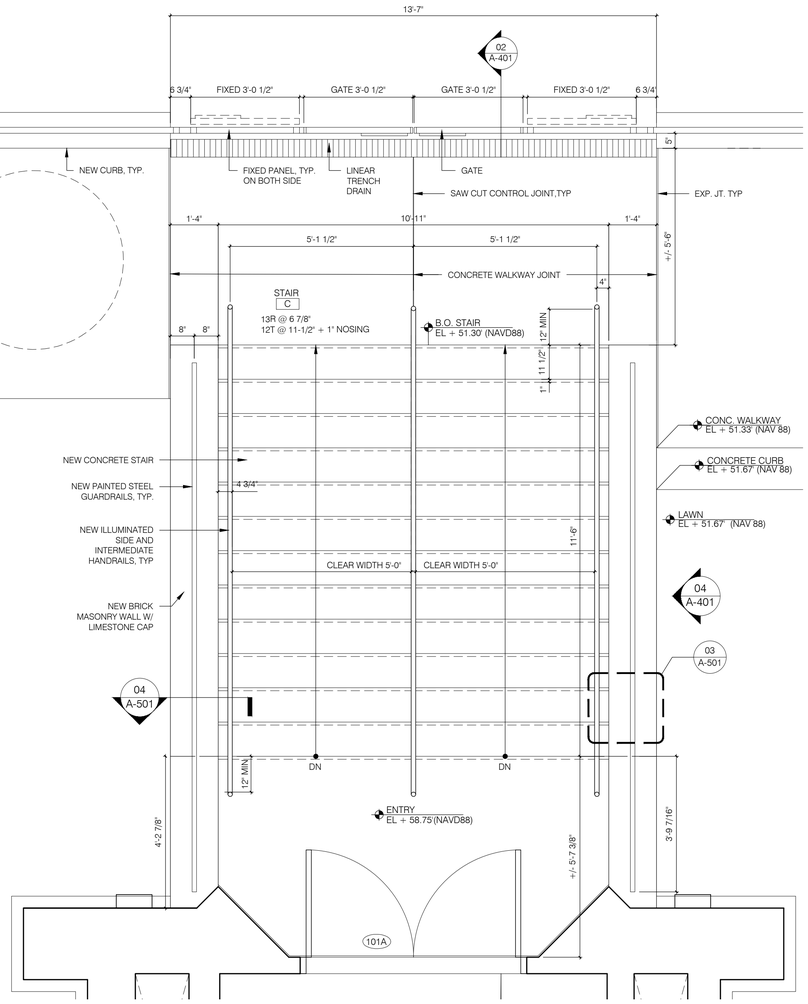
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
BUILDING SECTION

SEAL & SIGNATURE

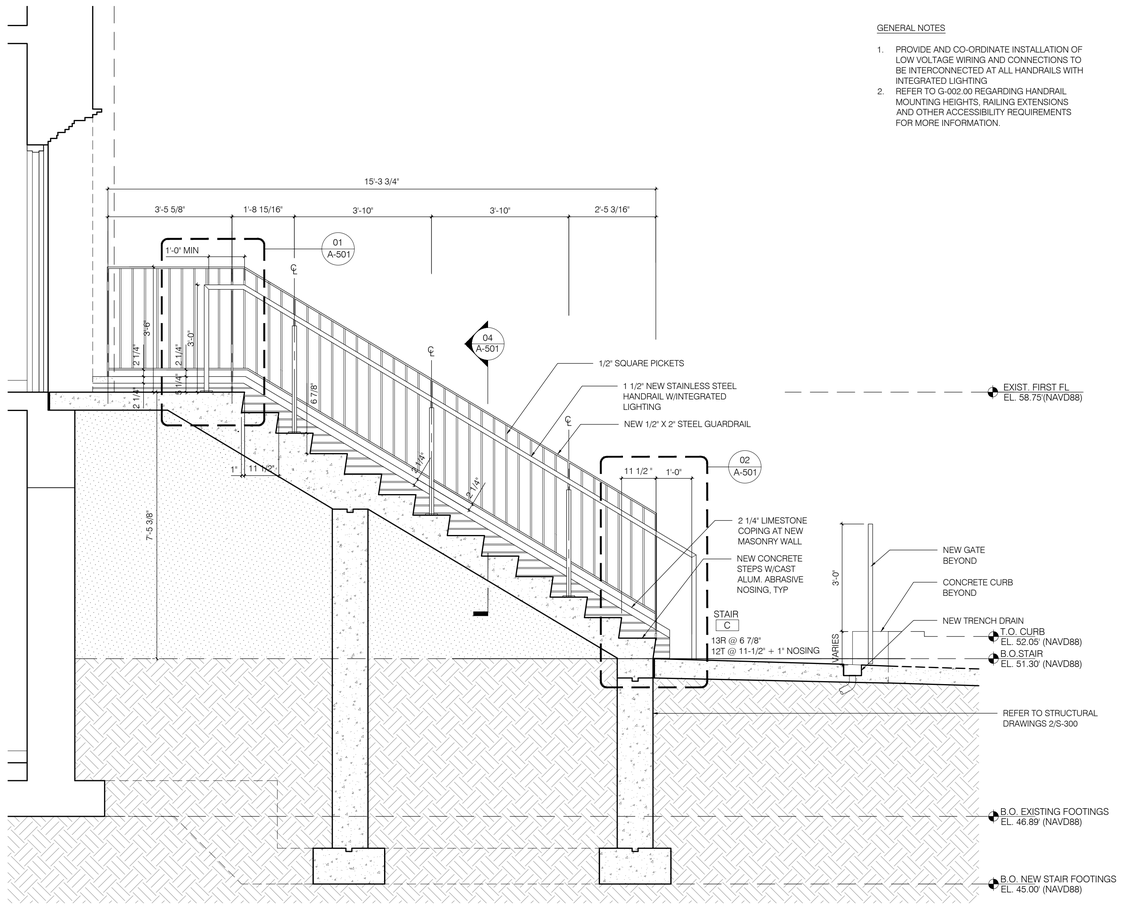
REGISTERED ARCHITECT NANDINEE PHOOKAN 035228 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-304.00
CAD FILE No:	



01 DETAIL PLAN AT MAIN STAIR C

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

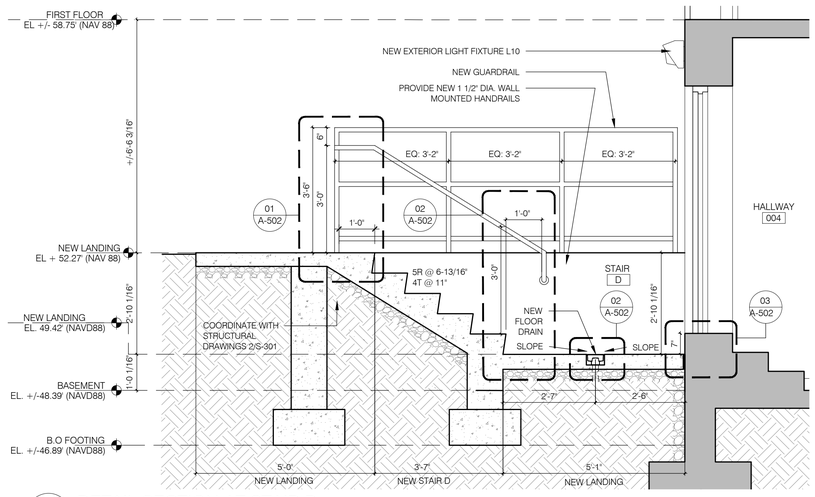


GENERAL NOTES

1. PROVIDE AND CO-ORDINATE INSTALLATION OF LOW VOLTAGE WIRING AND CONNECTIONS TO BE INTERCONNECTED AT ALL HANDRAILS WITH INTEGRATED LIGHTING
2. REFER TO G-002.00 REGARDING HANDRAIL MOUNTING HEIGHTS, RAILING EXTENSIONS AND OTHER ACCESSIBILITY REQUIREMENTS FOR MORE INFORMATION.

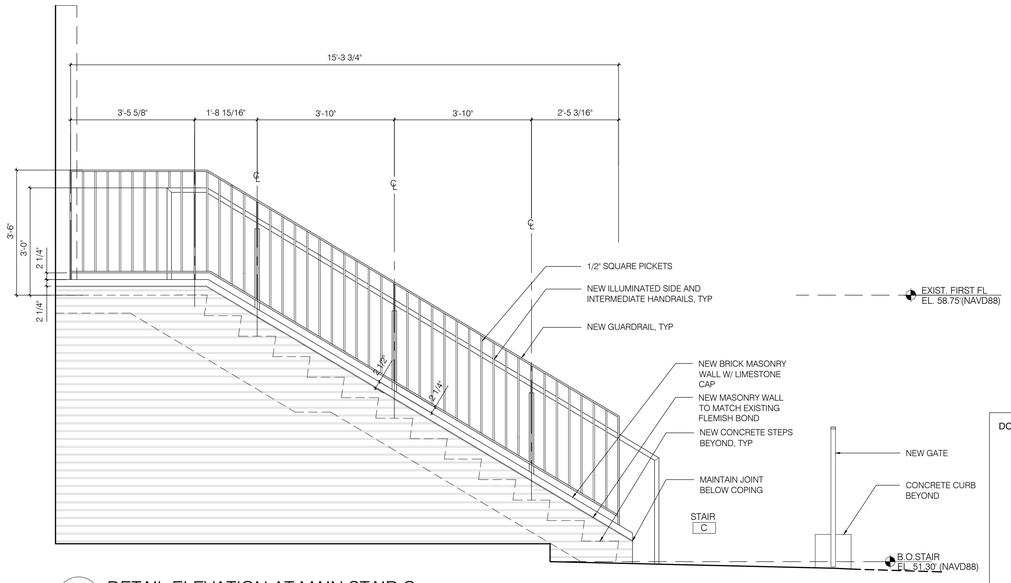
02 DETAIL SECTION AT MAIN STAIR C

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



03 DETAIL SECTION AT MAIN STAIR D

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



04 DETAIL ELEVATION AT MAIN STAIR C

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

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

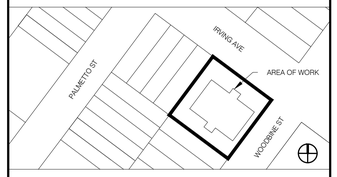
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

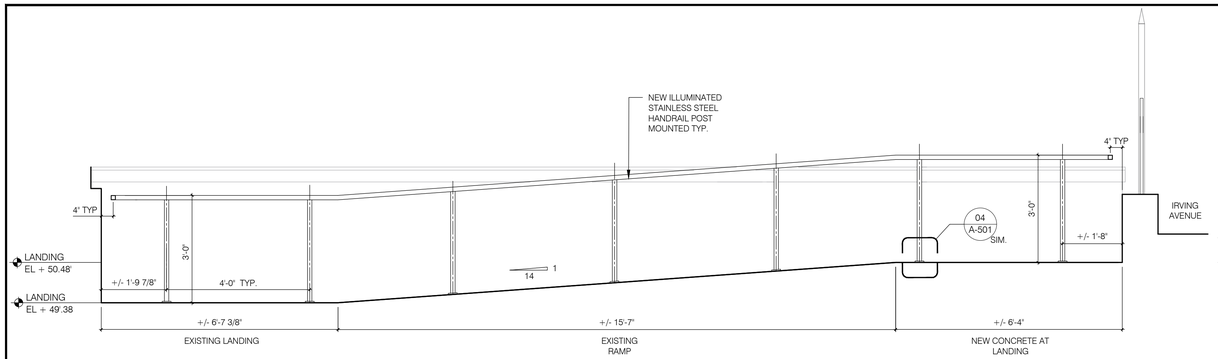
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ENLARGED PLANS AND ELEVATIONS : EXTERIOR STAIRS C & D

SEAL & SIGNATURE

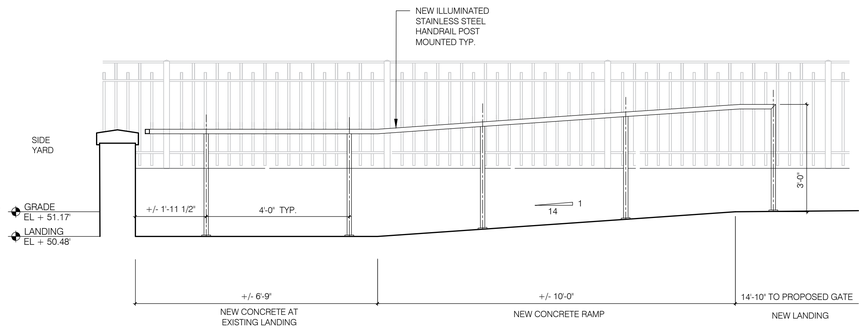
REGISTERED ARCHITECT NANDINEE PHOOKAN 029595 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-401.00
CAD FILE No:	

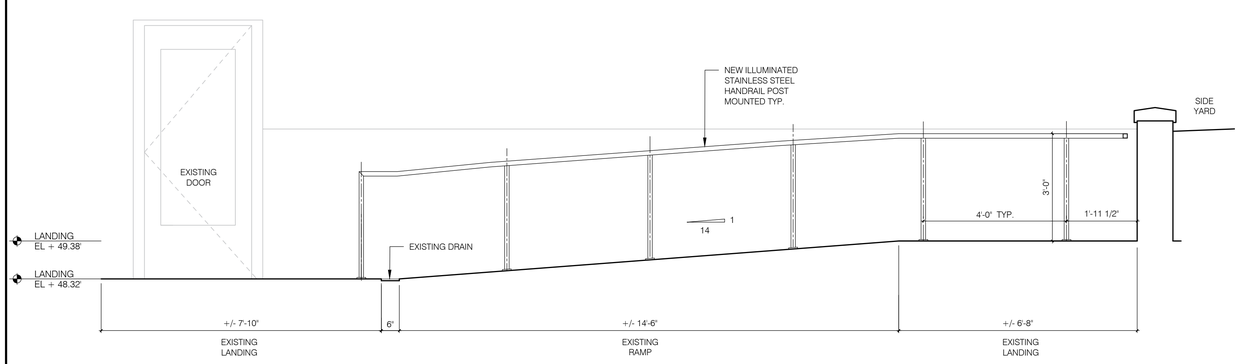
1□ OF 30



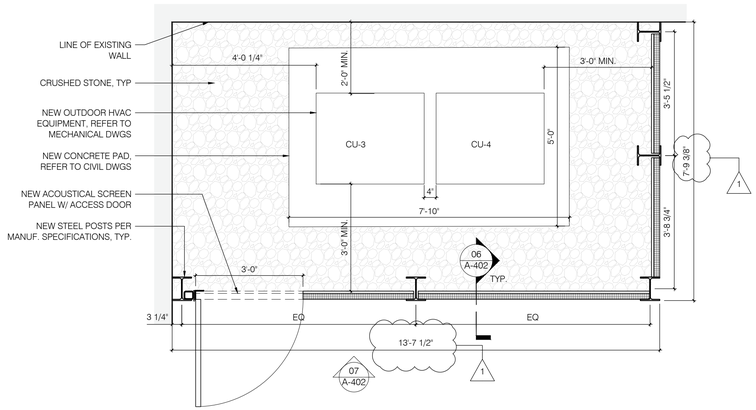
01 HANDRAIL ELEVATION AT RAMP
SCALE: 1/2"=1'-0"



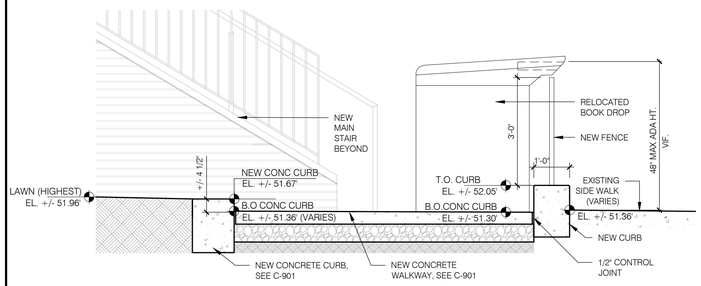
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SCALE: 1/2"=1'-0"



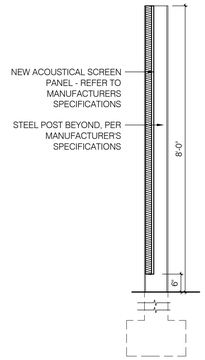
03 HANDRAIL ELEVATION AT RAMP
SCALE: 1/2"=1'-0"

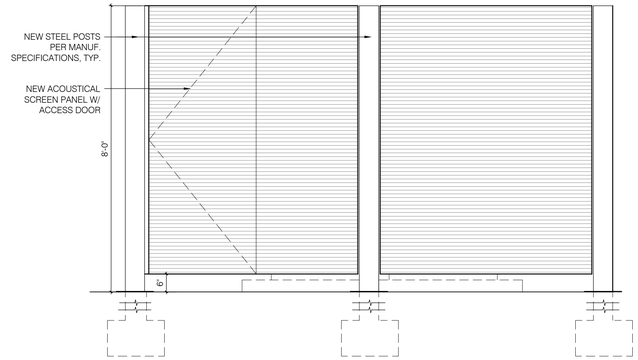


04 ACOUSTICAL FENCE PLAN DETAIL 1
SCALE: 3/4"=1'-0"

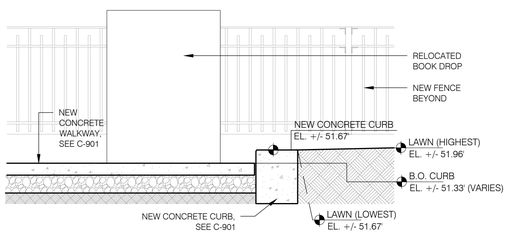


05 BOOK DROP SECTION AT CURB
SCALE: 1/2"=1'-0"

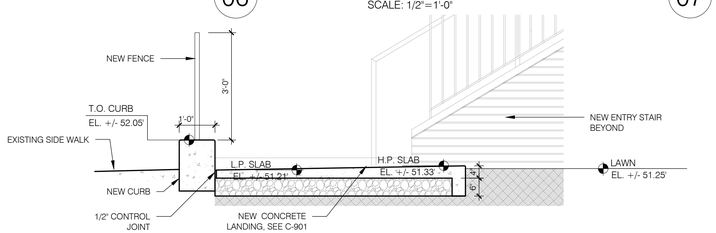




07 FENCE ELEVATION WITH ACCESS GATE
SCALE: 1/2"=1'-0"



08 BOOK DROP ELEVATION AT CURB
SCALE: 1/2"=1'-0"



06 SECTION DETAIL
SCALE: 1/2"=1'-0"

09 SECTION THROUGH CONCRETE WALKWAY AND LAWN
SCALE: 1/2"=1'-0"

GENERAL NOTES

1. PROVIDE AND CO-ORDINATE INSTALLATION OF LOW VOLTAGE WIRING AND CONNECTIONS TO BE INTERCONNECTED AT ALL HANDRAILS WITH INTEGRATED LIGHTING
2. REFER TO G-002.00 REGARDING HANDRAIL MOUNTING HEIGHTS, RAILING EXTENSIONS AND OTHER ACCESSIBILITY REQUIREMENTS FOR MORE INFORMATION.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

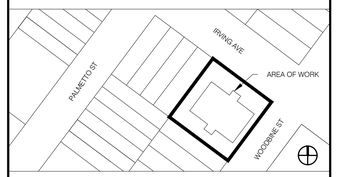
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

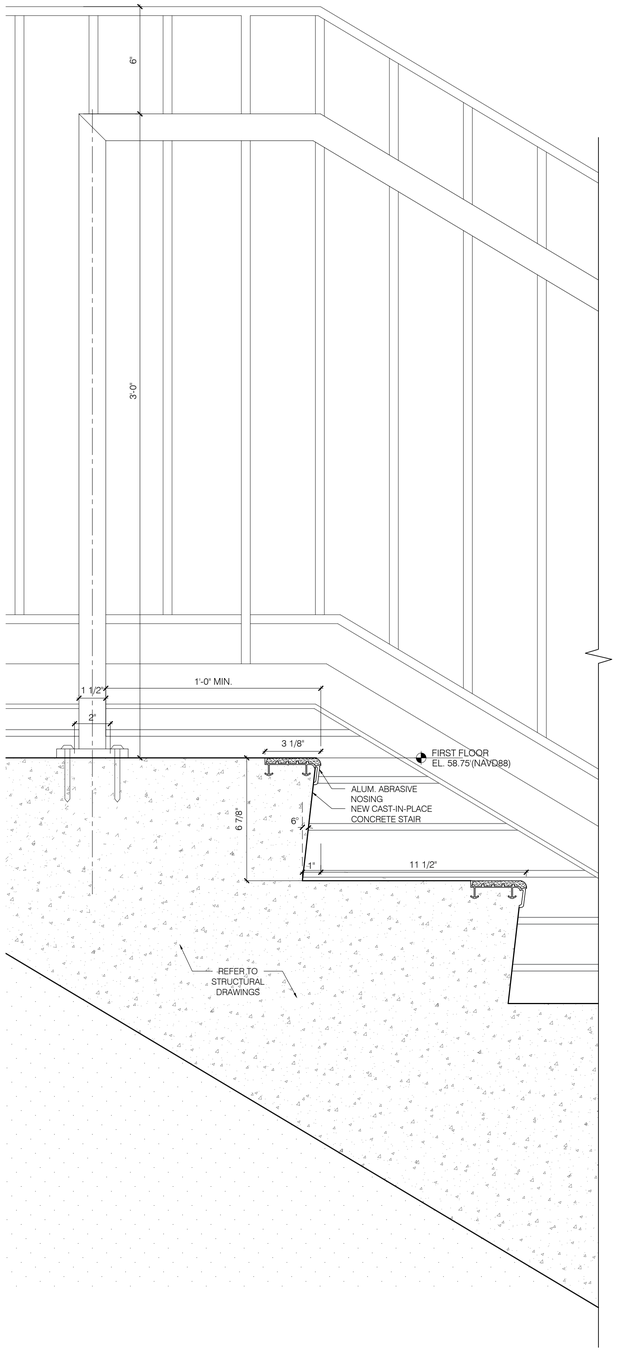
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
ENLARGED PLANS AND ELEVATIONS :RAMP & ACOUSTICAL SCREEN

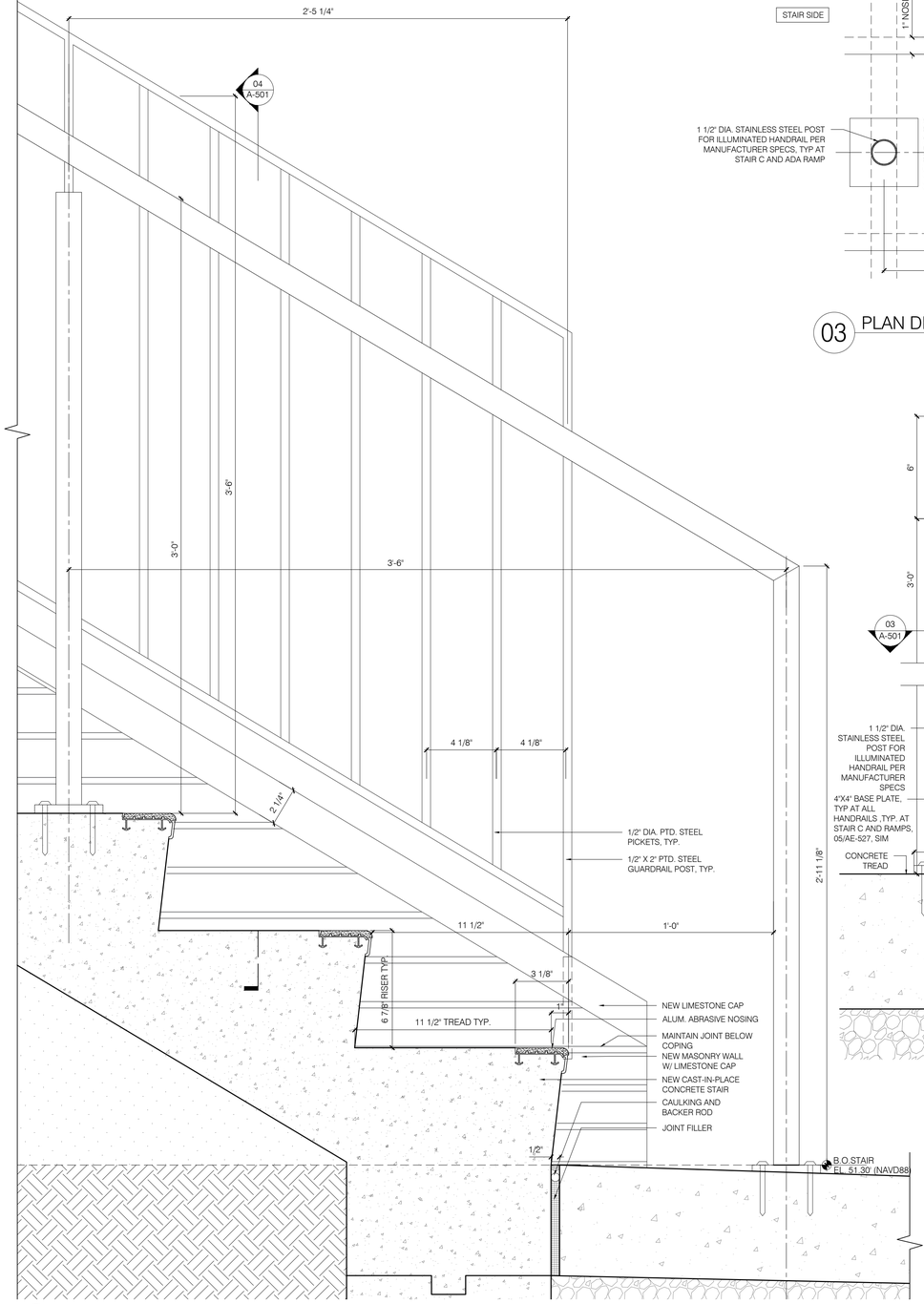
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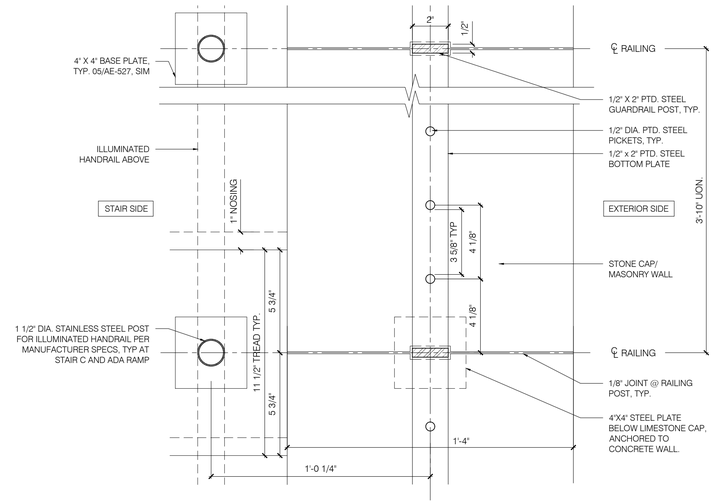
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PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-402.00
CAD FILE No:	



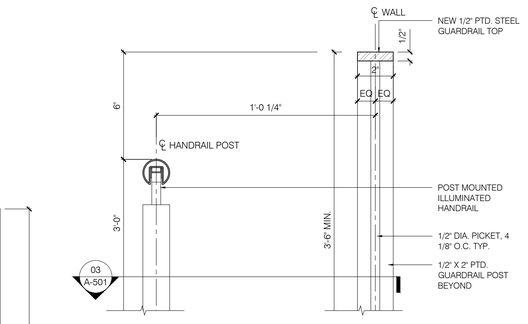
01 SECTION DETAIL AT TOP OF STAIR C
SCALE: 3"=1'-0"

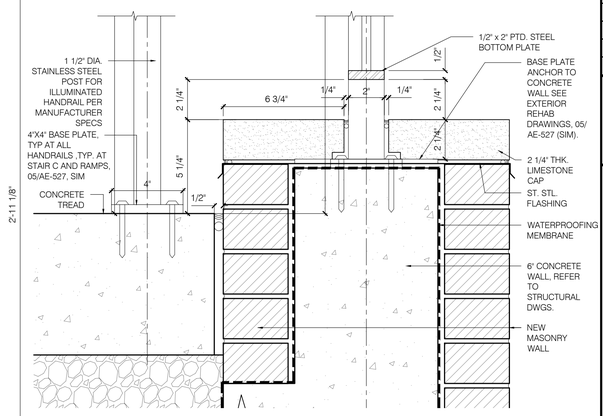


02 SECTION DETAIL AT BOTTOM OF STAIR C
SCALE: 3"=1'-0"



03 PLAN DETAIL AT GUARDRAIL OF STAIR C
SCALE: 3"=1'-0"





04 STAIR C GUARDRAIL SECTION DETAIL
SCALE: 3"=1'-0"

GENERAL NOTES

1. REFER TO G-002.00 REGARDING HANDRAIL MOUNTING HEIGHTS, RAILING EXTENSIONS AND OTHER ACCESSIBILITY REQUIREMENTS FOR MORE INFORMATION.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

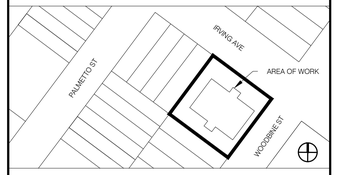
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

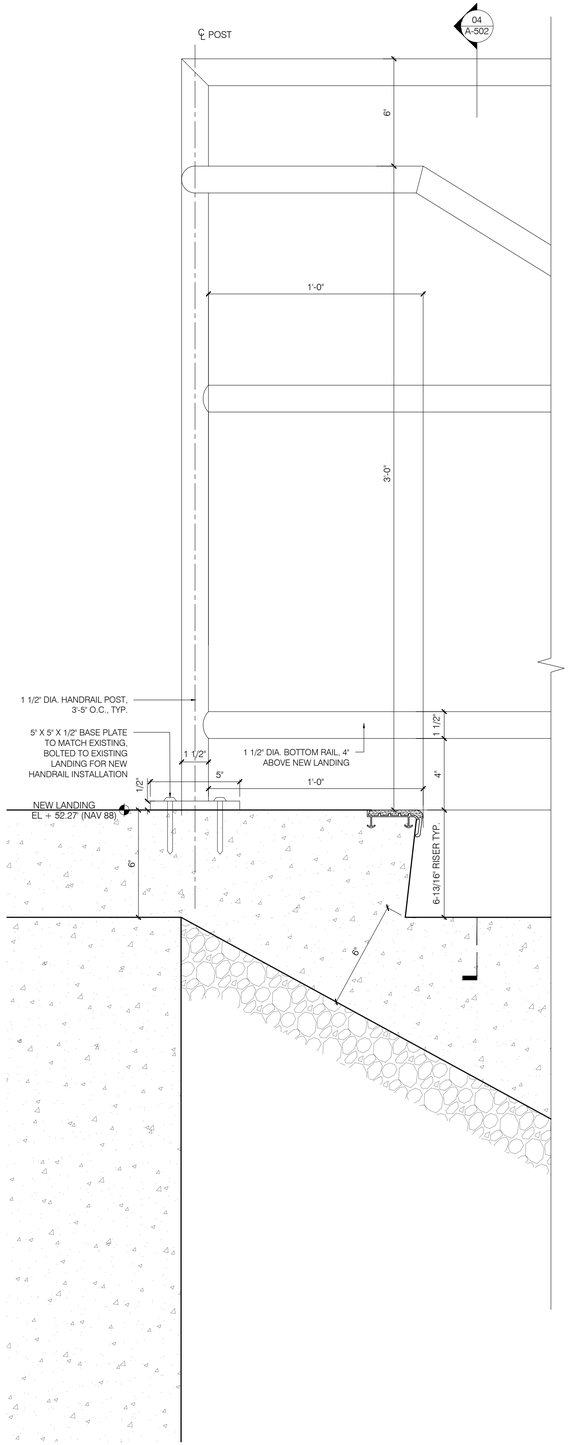
FOR THE:
Brooklyn Public Library (BPL)

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EXTERIOR DETAILS: STAIR C

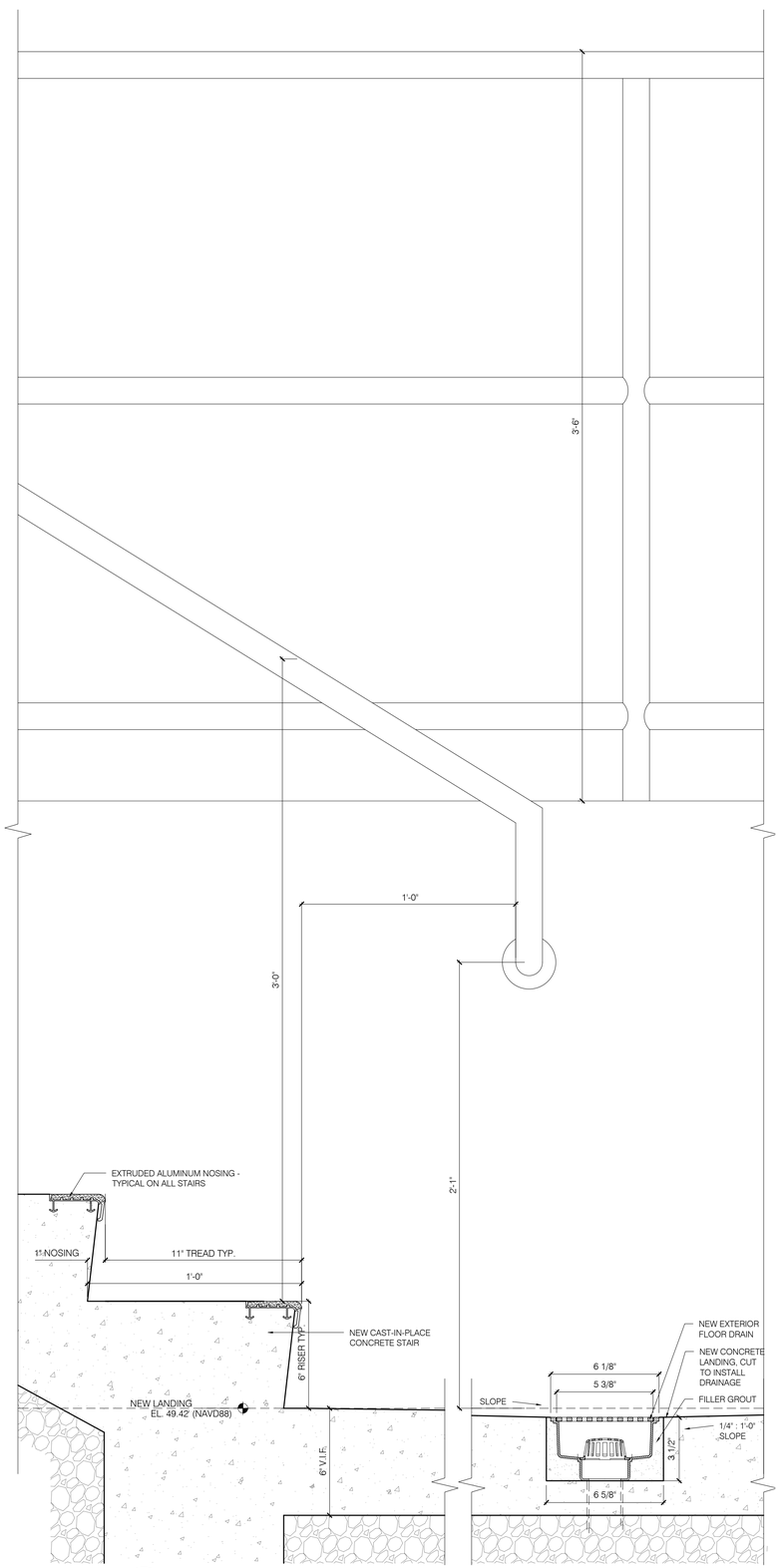
SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 025324 STATE OF NEW YORK

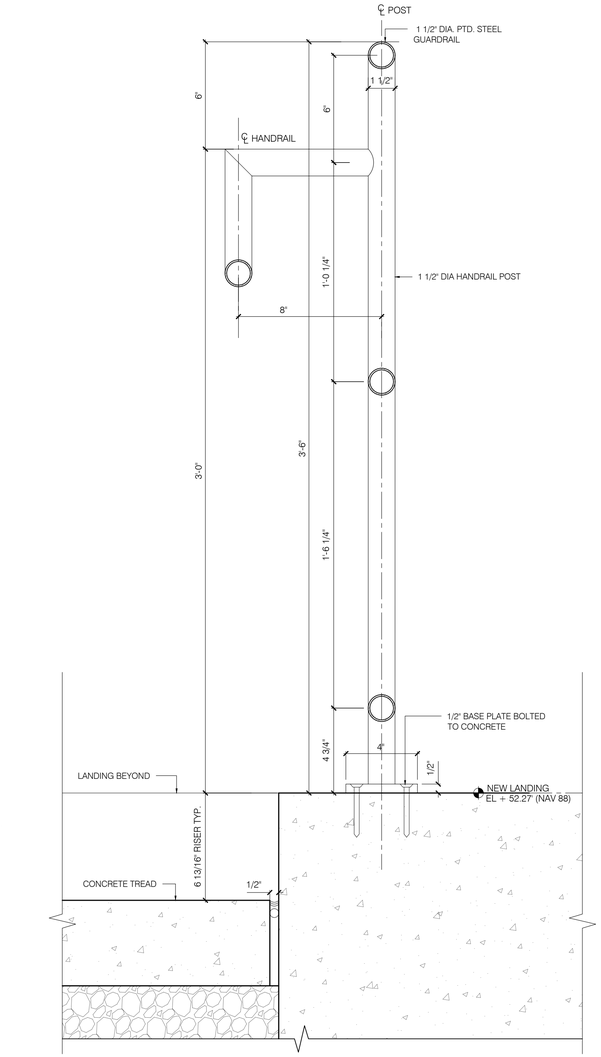
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PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-501.00
CAD FILE No:	
	21 OF 30



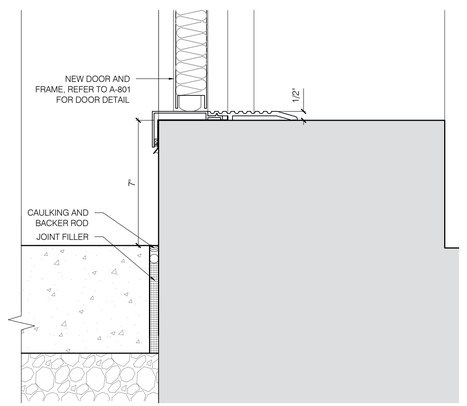
01 SECTION DETAIL AT TOP OF STAIR D
SCALE: 3"=1'-0"



02 SECTION DETAIL AT BOTTOM OF STAIR D
SCALE: 3"=1'-0"



04 TYPICAL DETAIL FOR GUARDRAIL : STAIR D
SCALE: 3"=1'-0"



03 SECTION DETAIL AT BOTTOM OF STAIR D
SCALE: 3"=1'-0"

GENERAL NOTES

1. REFER TO G-002.00 REGARDING HANDRAIL MOUNTING HEIGHTS, RAILING EXTENSIONS AND OTHER ACCESSIBILITY REQUIREMENTS FOR MORE INFORMATION.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
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ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

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EXTERIOR RESTORATION :
THE FALCON GROUP
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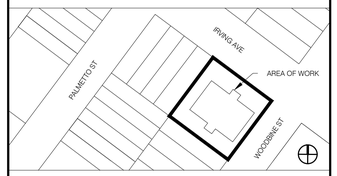
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
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ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

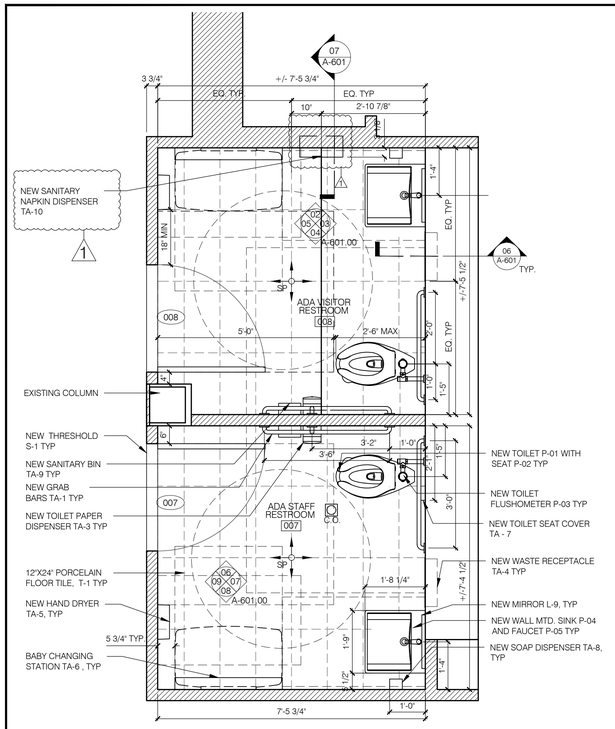
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
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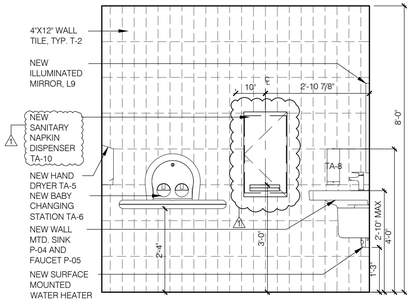
SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 026924 STATE OF NEW YORK

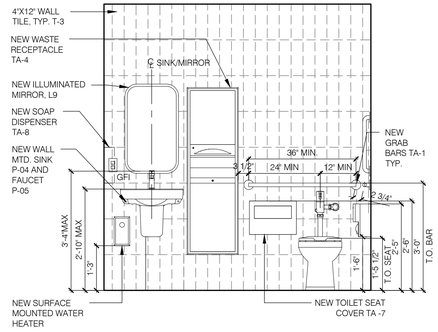
DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-502.00
CAD FILE No:	



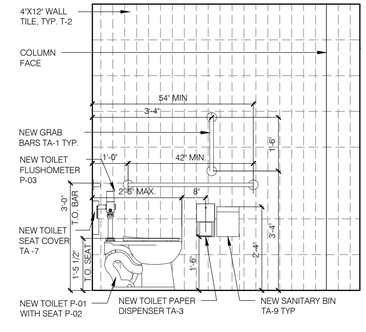
01 RESTROOM PLAN
SCALE: 1/2"=1'-0"



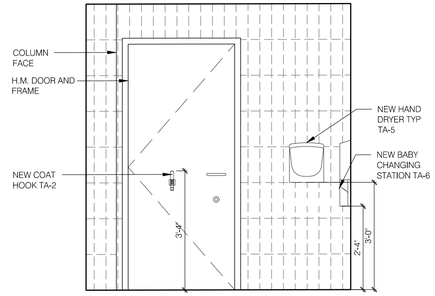
02 VISITOR RESTROOM ELEVATION
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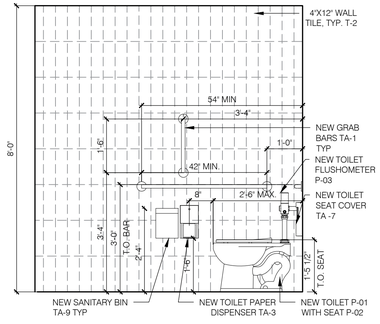
03 VISITOR RESTROOM ELEVATION
SCALE: 1/2"=1'-0"



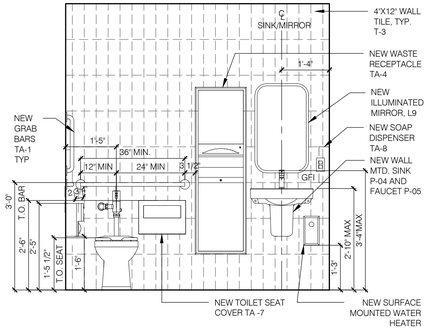
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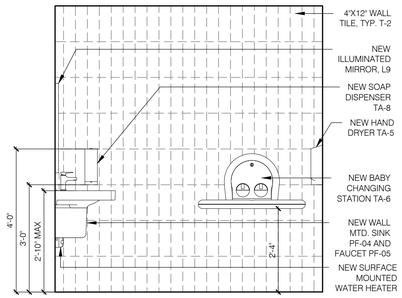
05 VISITOR RESTROOM ELEVATION
SCALE: 1/2"=1'-0"



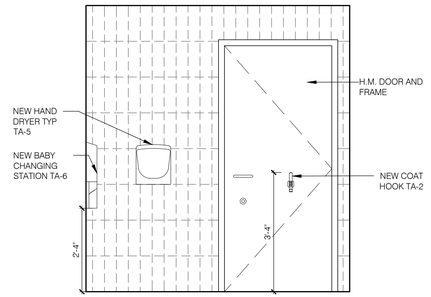
06 STAFF RESTROOM ELEVATION
SCALE: 1/2"=1'-0"



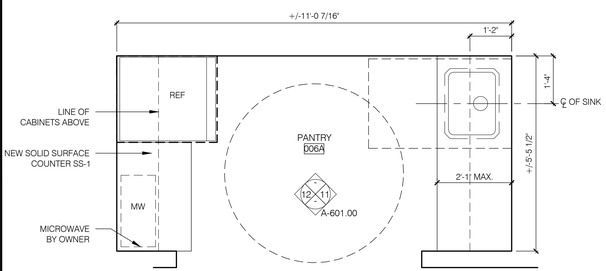
07 STAFF RESTROOM ELEVATION
SCALE: 1/2"=1'-0"



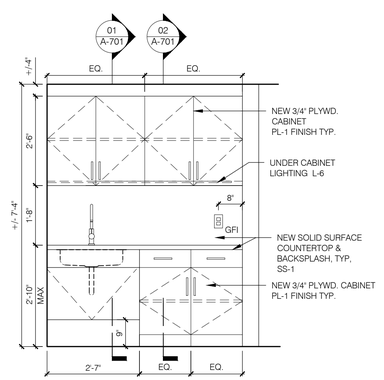
08 STAFF RESTROOM ELEVATION
SCALE: 1/2"=1'-0"



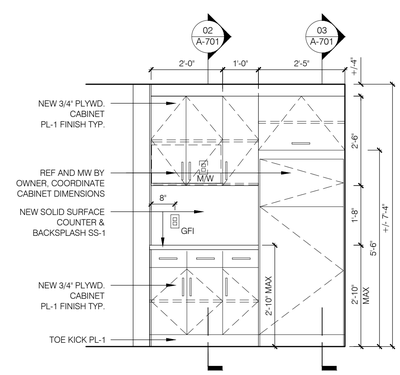
09 STAFF RESTROOM ELEVATION
SCALE: 1/2"=1'-0"



10 PANTRY PLAN
SCALE: 1/2"=1'-0"



11 PANTRY ELEVATION
SCALE: 1/2"=1'-0"



12 PANTRY ELEVATION
SCALE: 1/2"=1'-0"

BATHROOM GENERAL NOTES

1. SEE SPECS AND PRODUCT CUTS FOR ALL TOILET ACCESSORIES
2. REFER TO FINISH SCHEDULE FOR ALL INTERIOR FINISHES
3. SEE G-002 FOR MORE INFORMATION REGARDING ACCESSIBILITY INCLUDING MOUNTING HEIGHTS
4. ALL MOUNTING HEIGHTS TO COMPLY WITH ADAAG 2010

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

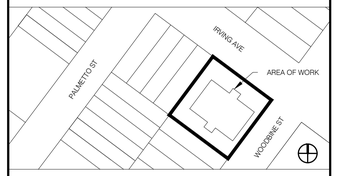
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

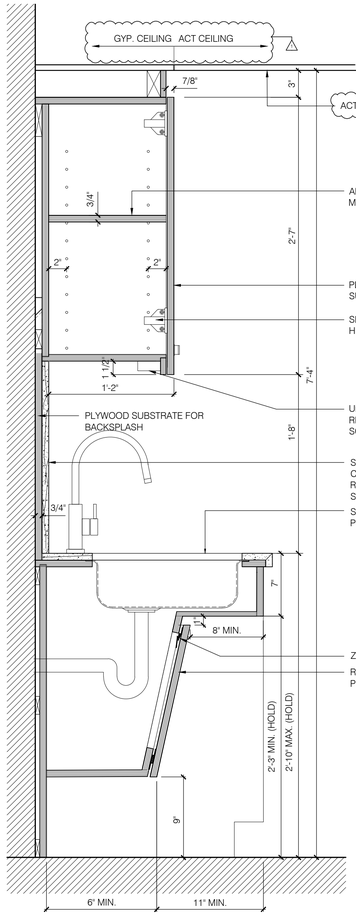
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
ENLARGED PLANS / ELEVATIONS : RESTROOM / PANTRY

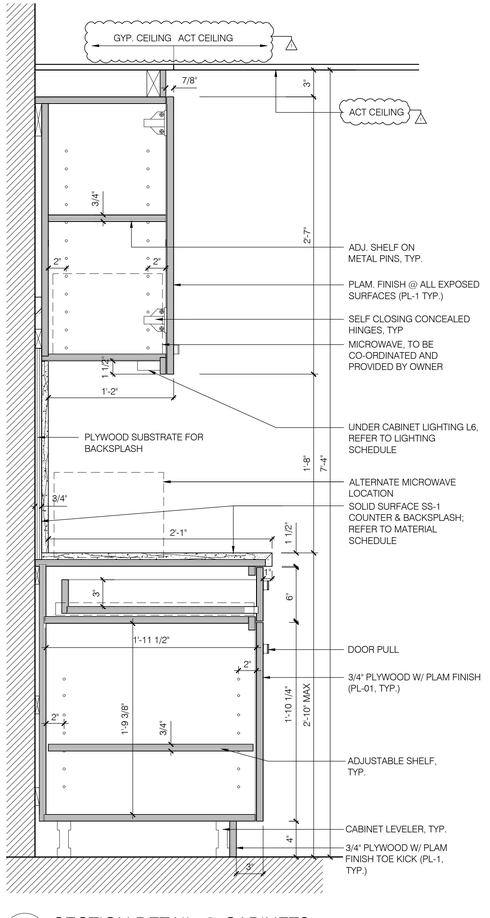
SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 025228 STATE OF NEW YORK

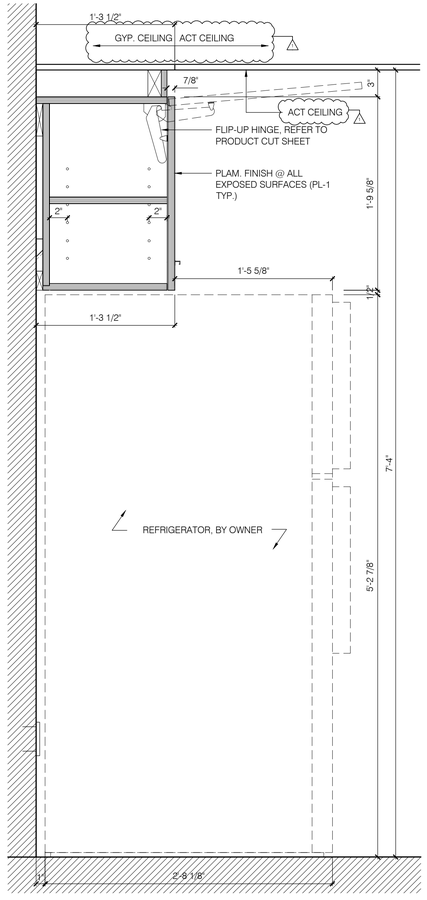
DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-601.00
CAD FILE No:	



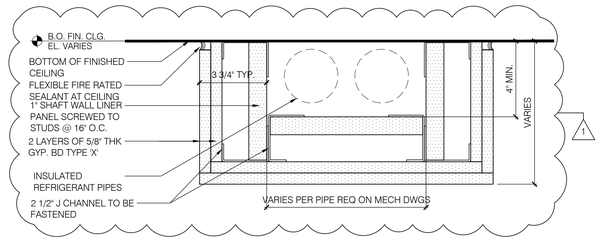
01 SECTION DETAIL @ SINK
SCALE: 1-1/2"=1'-0"



02 SECTION DETAIL @ CABINETS
SCALE: 1-1/2"=1'-0"



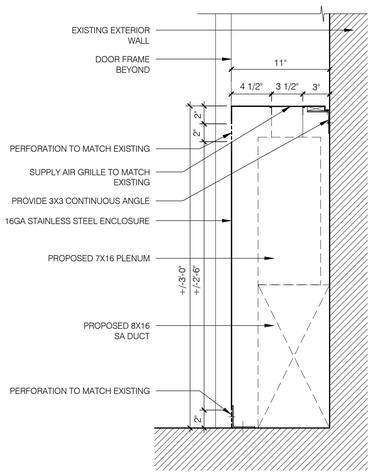
03 SECTION DETAIL @ REFRIGERATOR
SCALE: 1-1/2"=1'-0"



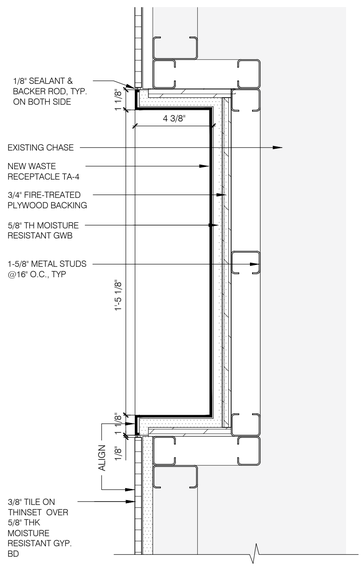
NOTES:
1. CONTRACTOR MUST VERIFY EACH CONDITION IN FIELD AND DETERMINE THE ENCLOSURE SIZING.
2. CONTRACTOR TO PAINT THE EXPOSED GYP AND MATCH IT TO ADJACENT CEILING FINISH COLOR.
3. MAINTAIN 7'-6" HEADROOM CLEARANCE MIN. U.O.N.

04 2HR RATED ENCLOSURE FOR REFRIGERANT PIPING
SCALE: 3"=1'-0"

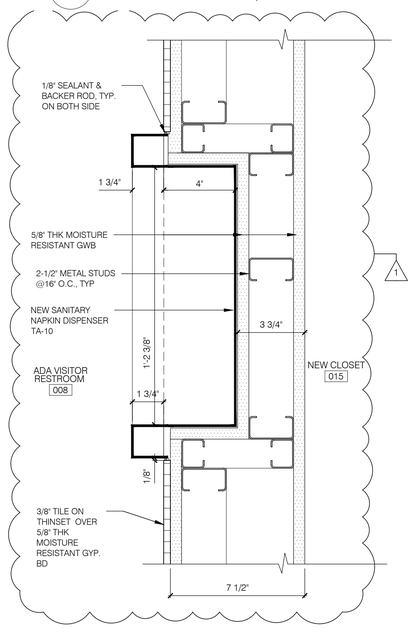
NOTE: GC TO COORDINATE CABINET SIZES AND CLEARANCES W/ REFRIGERATOR AND MICROWAVE BY OWNER.



05 METAL ENCLOSURE DETAIL
SCALE: 1-1/2"=1'-0"



06 PLAN DETAIL:RECESSED TOILET ACCESSORY
SCALE: 3"=1'-0"



07 PLAN DETAIL:SEMI-RECESSED TOILET ACCESSORY
SCALE: 3"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



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1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

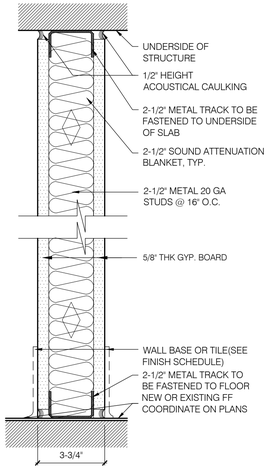
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
DETAILS: PANTRY MILLWORK & MISCELLANEOUS

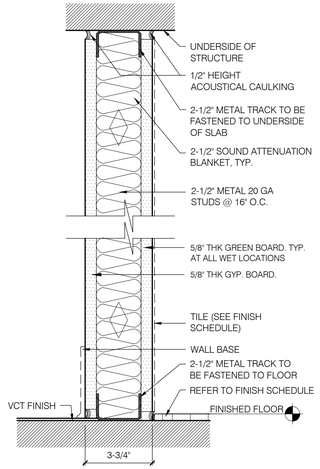
SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 025226 STATE OF NEW YORK

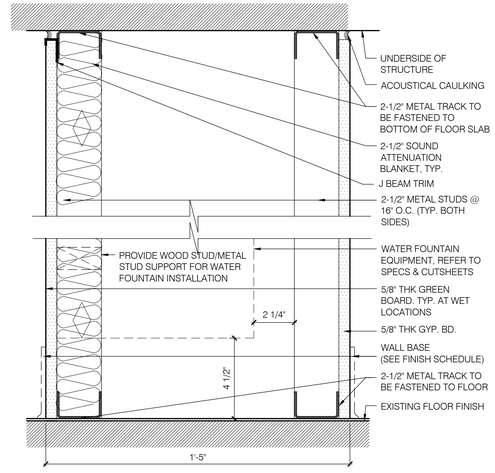
DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
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DRAWING NUMBER:	A-701.00
CAD FILE No:	



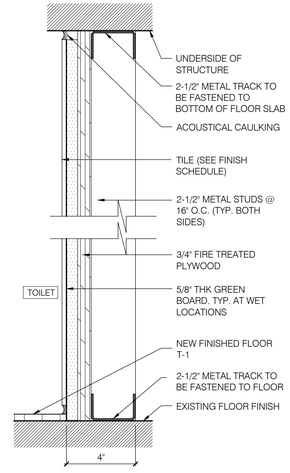
A 1 HR FULL HEIGHT PARTITION
SCALE: 3"=1'-0"



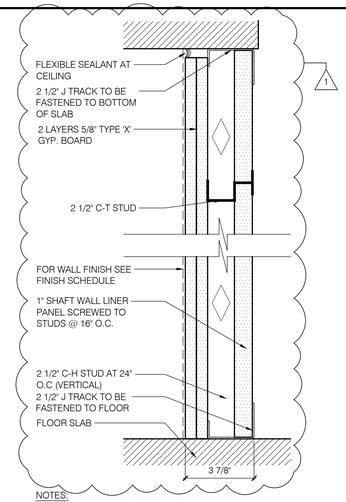
A' 1 HR FULL HEIGHT PARTITION
SCALE: 3"=1'-0"



B FULL HEIGHT PARTITION
SCALE: 3"=1'-0"

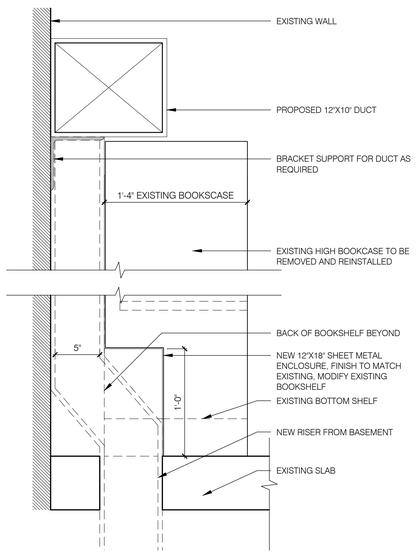


NOTES:
1. SEE PLANS FOR FINISHES / GWB TYPE.
2. PROVIDE BRACING AS REQ'D @ 24" O.C.

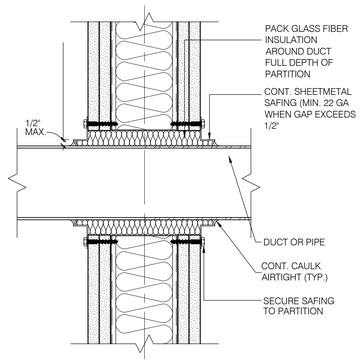


NOTES:
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2. 2 HR. WALL ASSEMBLY PER UL NO. U415 PARTITION

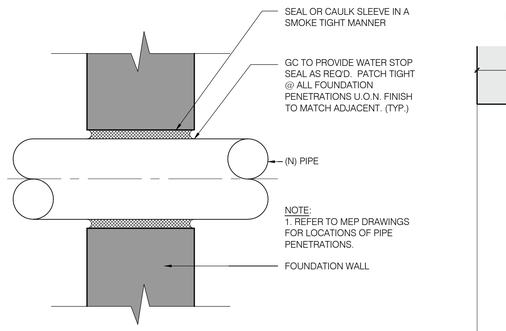
C 2HR SHAFT WALL
SCALE: 3"=1'-0"



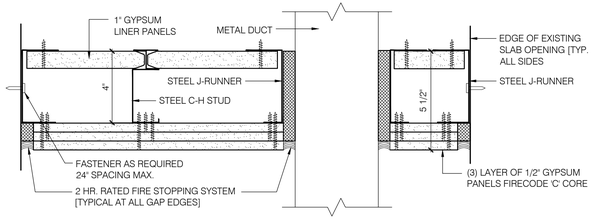
01 DUCT ENCLOSURE / SUPPORT AT BOOKSHELVES
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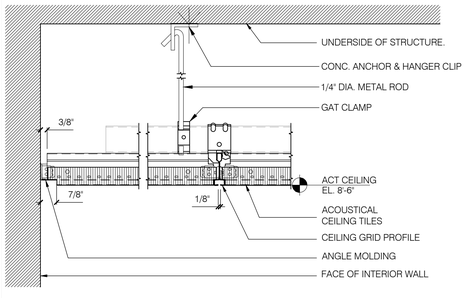
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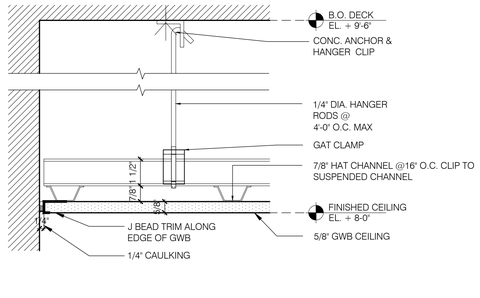
03 TYP. PIPE PENETRATION DETAIL
SCALE: 3"=1'-0"



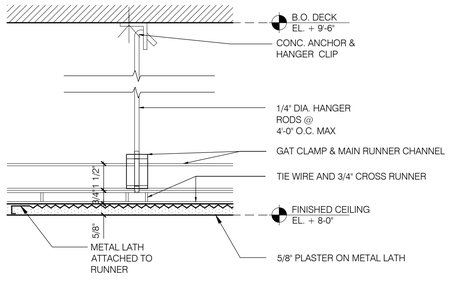
06 TYP. 2 HR FLOOR SLAB OPENING ASSEMBLY
SCALE: 3"=1'-0"



04 TYP. ACT CEILING DETAILS @ WALL
SCALE: 3"=1'-0"

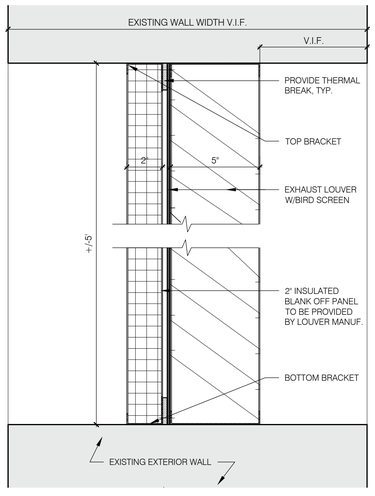


05 TYP. GWB CEILING DETAILS @ WALL
SCALE: 3"=1'-0"

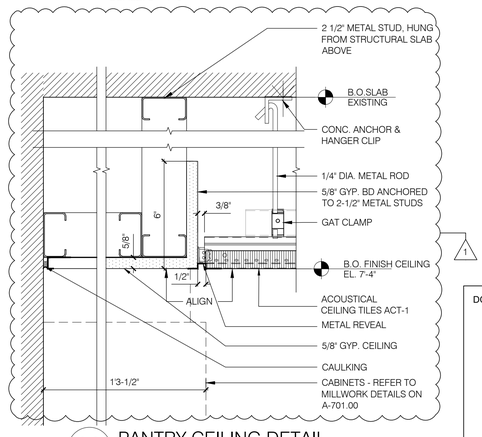


08 TYP. PLASTER CEILING DETAILS
SCALE: 3"=1'-0"

B' FULL HEIGHT PARTITION
SCALE: 3"=1'-0"



07 SECTION DETAIL: BLANK OFF PANEL @EXT. LOUVER
SCALE: 3"=1'-0"



09 PANTRY CEILING DETAIL
SCALE: 3"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

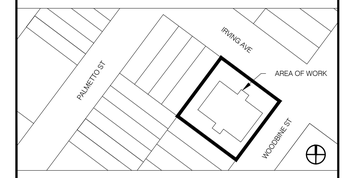
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



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	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

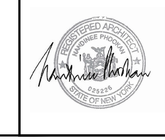
CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

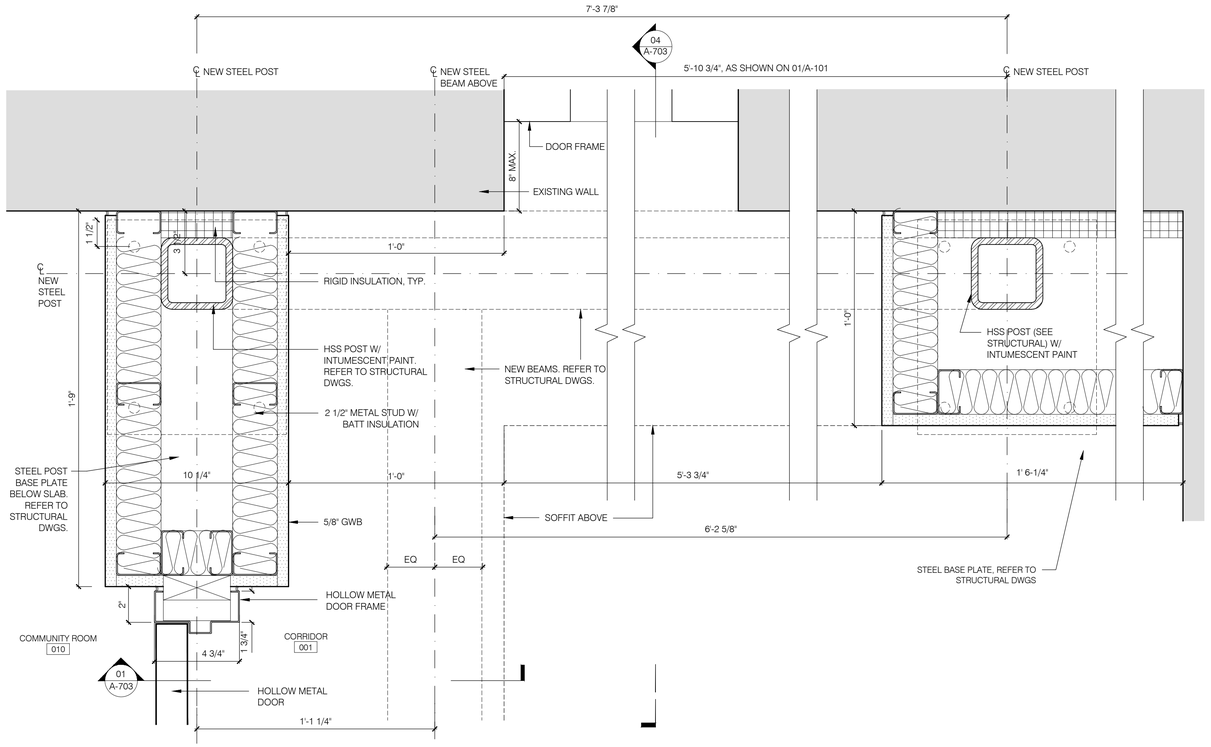
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
PARTITION TYPES, TYPICAL AND CEILING DETAILS

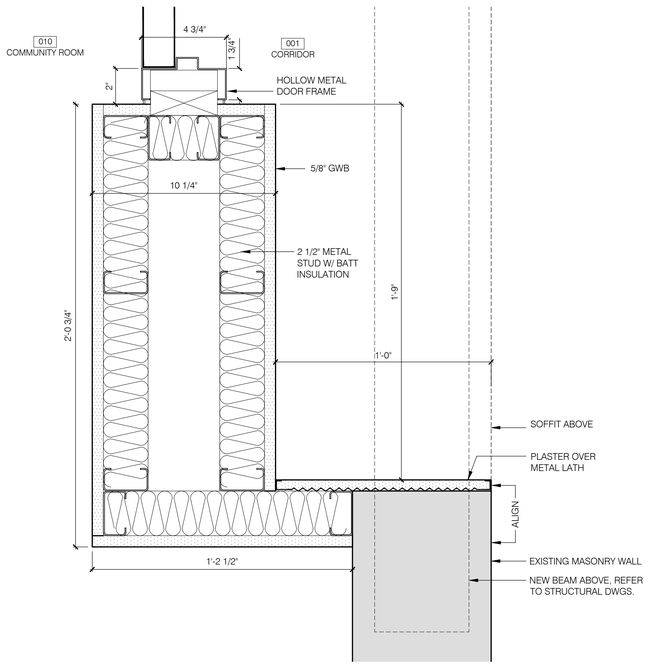
SEAL & SIGNATURE



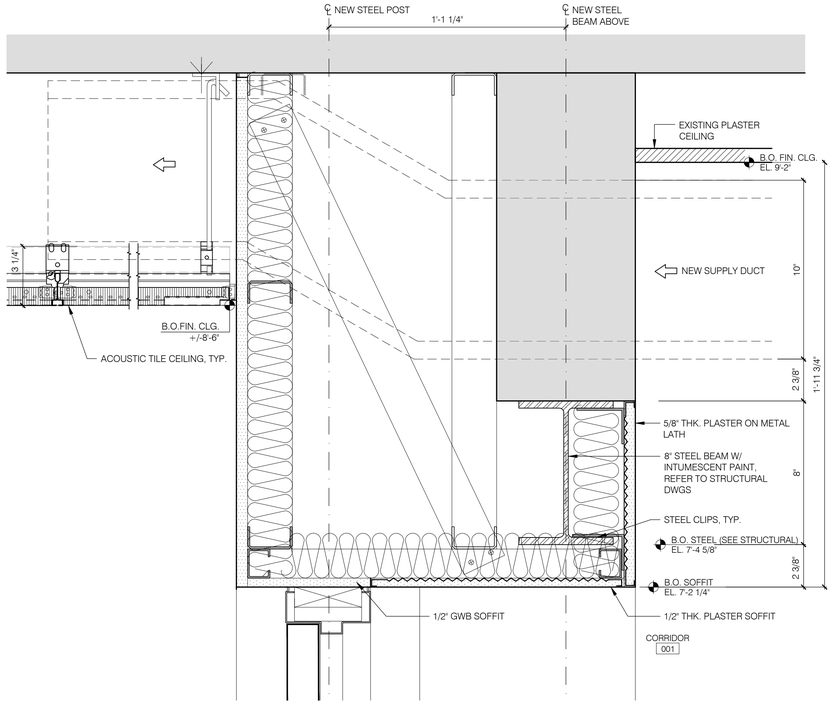
DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-702.00
CAD FILE No:	



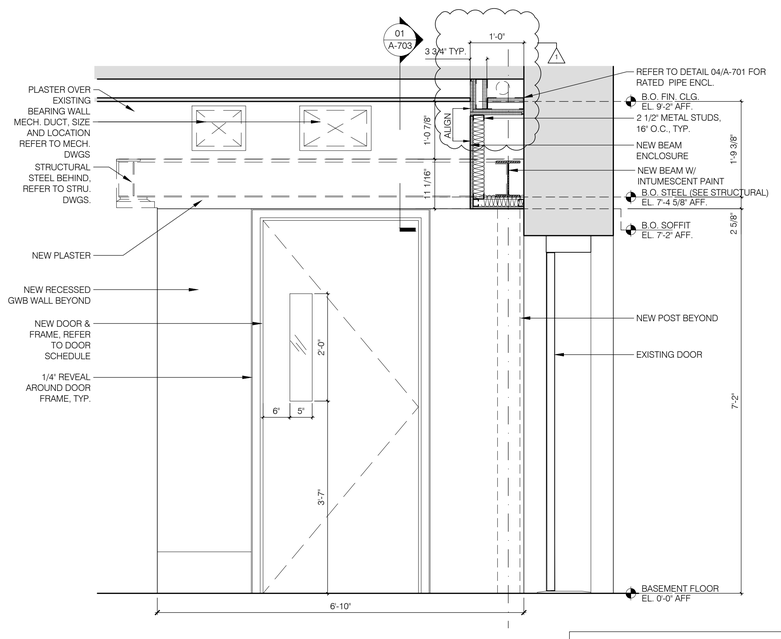
02 COMMUNITY ROOM PLAN DETAIL @ POST ENCLOSURE
SCALE: 3"=1'-0"



03 COMMUNITY ROOM PLAN DETAIL @ EXISTING WALL
SCALE: 3"=1'-0"



01 COMMUNITY ROOM SECTION DETAIL @ SOFFIT
SCALE: 3"=1'-0"



04 COMMUNITY ROOM DOOR AND SOFFIT DETAIL
SCALE: 3/4"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

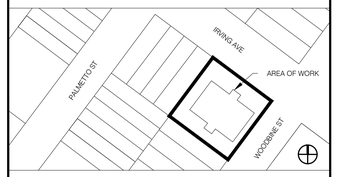
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

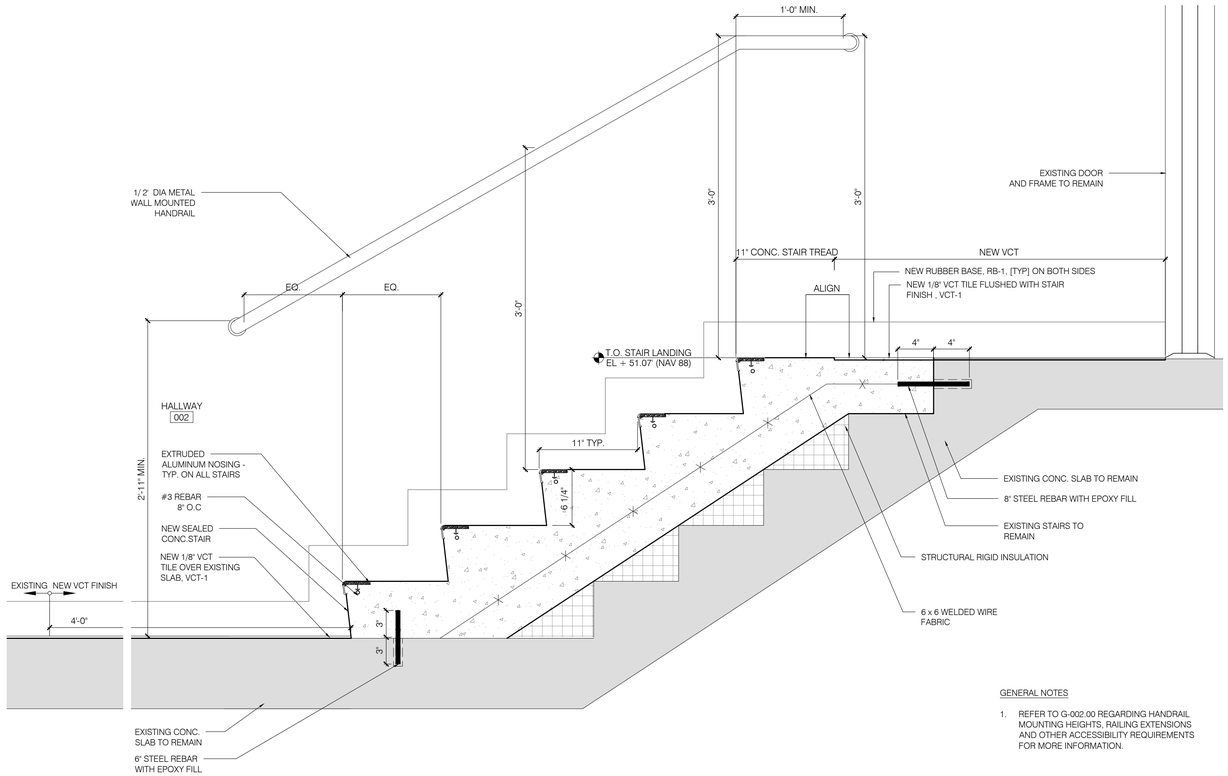
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
DETAILS: COMMUNITY ROOM POST ENCLOSURE @BASEMENT

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 035226 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-703.00
CAD FILE No:	



GENERAL NOTES

1. REFER TO G-002.00 REGARDING HANDRAIL MOUNTING HEIGHTS, RAILING EXTENSIONS AND OTHER ACCESSIBILITY REQUIREMENTS FOR MORE INFORMATION.

01 SECTION DETAIL OF STAIR E
SCALE: 1 1/2"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

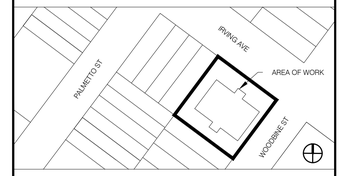
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

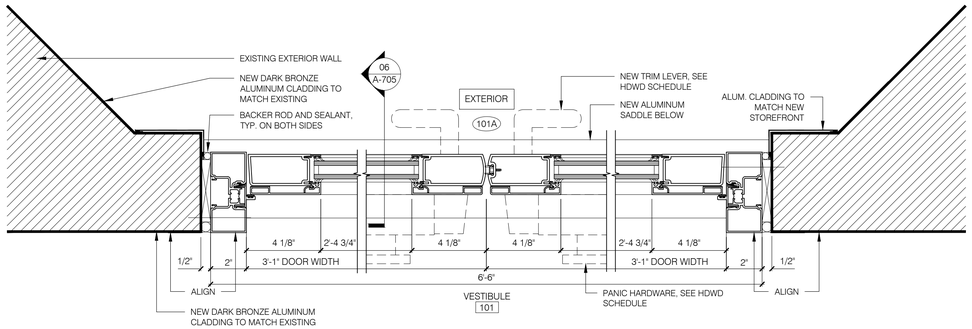
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
DETAILS: STAIR E @BASEMENT

SEAL & SIGNATURE

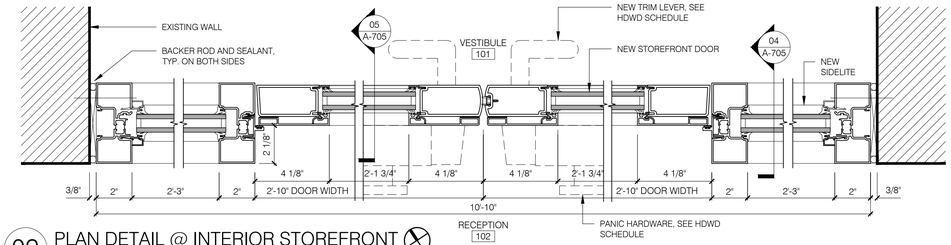
REGISTERED ARCHITECT NANDINEE PHOOKAN 023974 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-704.00
CAD FILE No:	



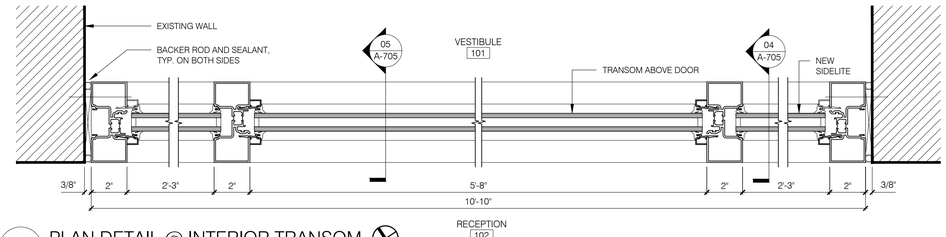
01 PLAN DETAIL @ EXTERIOR STOREFRONT

SCALE: 3"=1'-0"



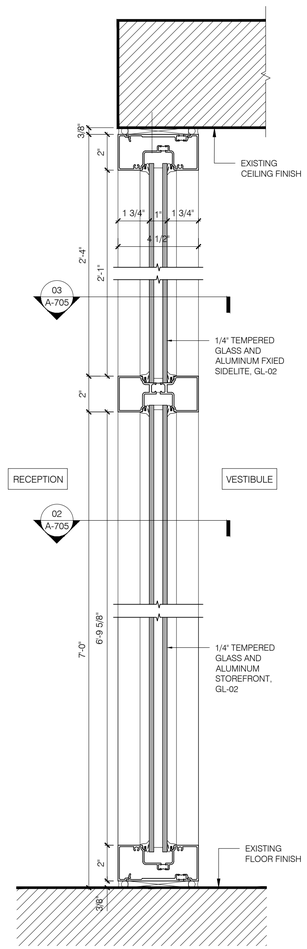
02 PLAN DETAIL @ INTERIOR STOREFRONT

SCALE: 3"=1'-0"



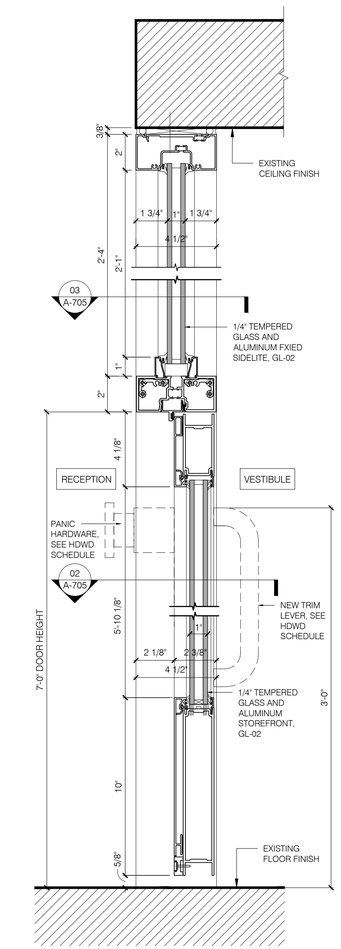
03 PLAN DETAIL @ INTERIOR TRANSOM

SCALE: 3"=1'-0"



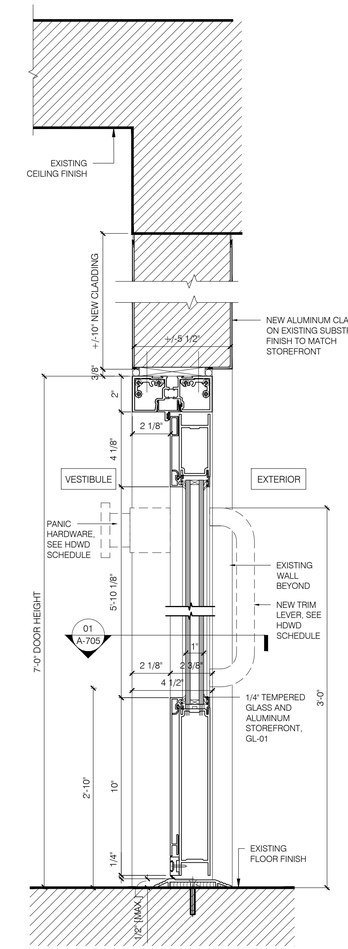
04 INT. SIDELITE SECTION

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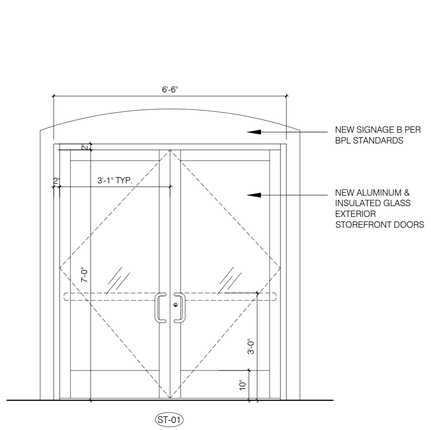
05 INT. STOREFRONT SECTION

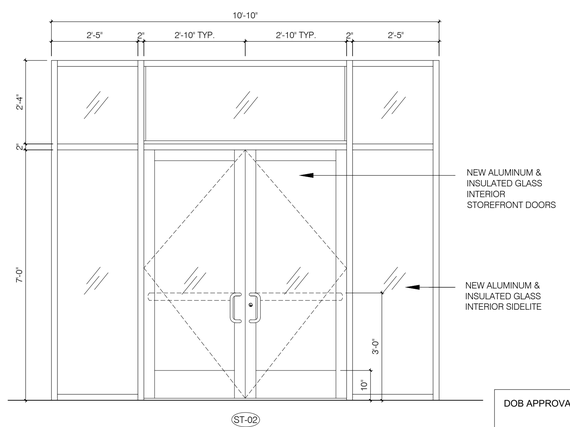
SCALE: 3"=1'-0"



06 EXT. STOREFRONT SECTION

SCALE: 3"=1'-0"





07 STOREFRONT DOOR TYPES

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

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
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10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

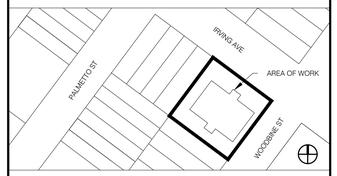
CIVIL ENGINEERS :
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35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
STOREFRONT DOOR DETAILS

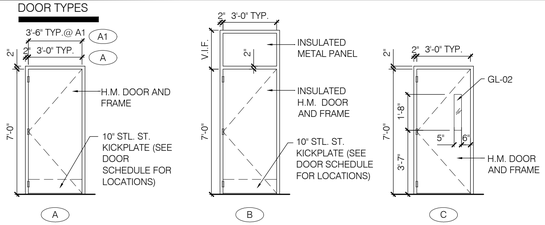
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REGISTERED ARCHITECT NANDINEE PHOOKAN 028424 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-705.00
CAD FILE No:	

DOOR TYPES



DOOR SCHEDULE

NO.	LOCATION	FIN. OPENING W. H. TH.	DOOR TYPE	HDWR.	DOOR MATL	FRAME MATL	H/J/S TYPE	FINISH	REMARKS
002	HALLWAY	3'-0" X 7'-0" X 1 3/4"	C	01	HM	HM	D3	PT-4	
003	VESTIBULE	3'-0" X 7'-0" X 1 3/4"	A	01.1	HM	HM	D2	PT-5	INSULATED EXTERIOR DOOR
005	STAIR D EXIT	3'-0" X 7'-0" X 1 3/4"	A	01.1	HM	HM	D5	PT-5	INSULATED EXTERIOR DOOR
007	ADA STAFF RESTROOM	3'-0" X 7'-0" X 1 3/4"	A	04	HM	HM	D1	PT-4	NO CLOSER
008	ADA VISITOR RESTROOM	3'-0" X 7'-0" X 1 3/4"	A	04	HM	HM	D1	PT-4	NO CLOSER
010	COMMUNITY ROOM	3'-0" X 7'-0" X 1 3/4"	C	07.1	HM + GL-02	HM	SEE A-703	PT-4	
011	WORK ROOM	3'-0" X 7'-0" X 1 3/4"	A	CR02	HM	HM	D4	PT-4	PROVIDE ACCESS CONTROL, PER TY DRAWING
013	EQUIPMENT ROOM	3'-6" X 7'-0" X 1 3/4"	A1	CR02	HM	HM	D4	PT-4	PROVIDE ACCESS CONTROL, PER TY DRAWING
014	STAIR F EXIT	3'-0" X 7'-0" X 1 3/4"	B	01.1	HM	HM	D5 SIM	PT-5	INSULATED EXTERIOR DOOR
014A	ELECTRICAL ROOM	3'-0" X 7'-0" X 1 3/4"	A	02	HM	HM	D3	PT-4	
014B	NEW PROGRAM SPACE	3'-0" X 7'-0" X 1 3/4"	A	07	HM	HM	D4	PT-4	
015	NEW CLOSET	3'-0" X 7'-0" X 1 3/4"	A	02	HM	HM	D3	PT-4	
101A	MAIN ENTRANCE	2 (3'-0" X 7'-0" X 1 3/4")	ST-01	01A.1	ALUM/ GL-01	ALUM	-	DARK BRONZE	ANODIZED ALUM. FINISH AT STOREFRONT
101B	VESTIBULE	2 (2'-10" X 7'-0" X 1 3/4")	ST-02	01A	ALUM/ GL-02	ALUM	-	DARK BRONZE	ANODIZED ALUM. FINISH AT STOREFRONT

REFER TO HARDWARE SCHEDULE ON A 802.-00

MATERIAL SCHEDULE (BASIS OF DESIGN)

FLOOR TILE		REMARKS
T-1	OUTLANDER BY DALTILE, 12"X24"X5/16", COLOR : MOONLIGHT OU56, FINISH: MATTE	PORCELAIN FLOOR TILE @ RESTROOMS
CERAMIC WALL TILE		
T-2	4"X12"x5/16" WALL TILE, COLORSTORY BY AMERICAN OLEAN FROM DALTILE, COLOR: MATTE DESIGNER WHITE 0061	CERAMIC WALL TILE @ RESTROOMS
T-3	4"X12"X5/16" WALL TILE, COLORSTORY BY AMERICAN OLEAN FROM DALTILE, COLOR: MATTE BALANCE 0034	CERAMIC WALL TILE @ RESTROOMS
STONE		
S-1	CARRARA MARBLE FINISH : HONED	RESTROOM THRESHOLDS
PAINTS		
PT-1	BENJAMIN MOORE, AURA F524 EGGSHELL; COLOR OC-25 CLOUD COVER	BASEMENT INTERIOR WALLS
PT-2	BENJAMIN MOORE, AURA F524 EGGSHELL; COLOR OC-25 CLOUD COVER	FIRST FLOOR INTERIOR WALLS
PT-3	BENJAMIN MOORE, AURA INTERIOR F522 MATTE; COLOR WHITE OC-151	CEILINGS
PT-4	BENJAMIN MOORE, AURA INTERIOR F528 SEMI-GLOSS; COLOR 2137-50 SEA HAZE	DOORS
PT-5	BENJAMIN MOORE, AURA EXTERIOR F528 SEMI-GLOSS; COLOR 2137-50 SEA HAZE	DOORS
PT-6	BENJAMIN MOORE, PRE-CATALYZED WATERBORNE EPOXY V341, COLOR: WHITE, FINISH: SEMI GLOSS	EXPOSED DUCTS
SOLID SURFACE		
SS-1	CORIAN, COLOR : GLACIER WHITE	PANTRY COUNTERTOP & BACKSPLASH
LAMINATES		
PL-1	WILSONART, COLOR : DESIGNER WHITE D354-60; FINISH: MATTE	PANTRY CABINET
RUBBER BASE		
RB-1	ROPPE RUBBER BASE 4"H; COLOR : 197 ICEBERG ALTERNATE OPTION : 638 CADET	
VCT		
VCT-1	12"X12" TARKETT VCT; COLOR: SANDSTONE 556	
ACOUSTICAL TILE		
ACT-1	24"X 24" ARMSTRONG ULTIMA LAY-IN	

INTERIOR FINISH SCHEDULE

RM NO.	ROOM NAME	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	FLOOR	BASE	CEILING
001	CORRIDOR	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	PT-3
002	HALLWAY	PT-1	PT-1	PT-1	PT-1	EXISTING/VCT-1	RB-1	PT-3
003	VESTIBULE	PT-1	PT-1	PT-1	PT-1	EXISTING	RB-1	PT-3
004	HALLWAY		PT-1		PT-1	VCT-1	RB-1	PT-3
005	ELEVATOR LOBBY	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	PT-3
006	STAFF ROOM	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	EXISTING, PT-3
006A	PANTRY	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	GWB PTD, PT-3
007	STAFF RESTROOM	T-2	T-3	T-2	T-2	T-1	-	GWB PTD, PT-3
008	VISITOR RESTROOM	T-2	T-3	T-2	T-2	T-1	-	GWB PTD, PT-3
009	UTILITY ROOM	PT-1	PT-1	PT-1	PT-1	EXISTING	-	EXISTING
010	COMMUNITY ROOM	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	ACT-1
010A	STORAGE	PT-1	PT-1	PT-1	PT-1	EXISTING	-	PT-3
011	WORK ROOM	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	PT-3
011A	STORAGE	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	PT-3
011B	ELEVATOR MACH. RM	PT-1	PT-1	PT-1	PT-1	EXISTING	-	PT-3
012	IT ROOM	PT-1	PT-1	PT-1	PT-1	EXISTING	-	PT-3
013	EQUIPMENT ROOM	PT-1	PT-1	PT-1	PT-1	EXISTING	EXISTING	PT-3
014	ELECTRICAL ROOM	PT-1	PT-1	PT-1	GWB. PT-1	EXISTING	RB-1 (WEST)	PT-3
014A	NEW PROGRAM SPACE	PT-1	GWB. PT-1	PT-1	PT-1	VCT-1	RB-1	PT-3
015	NEW CLOSET	PT-1	PT-1	PT-1	PT-1	VCT-1	RB-1	PT-3
101	VESTIBULE	PT-2	PT-2	PT-2	PT-2	VCT-1	EXISTING	PT-3
102	RECEPTION	PT-2	PT-2	PT-2	PT-2	EXISTING	EXISTING	PT-3
103	ADULT READING ROOM	PT-2	PT-2	PT-2	PT-2	EXISTING	EXISTING	PT-3
104	UTILITY CLOSET	PT-2	PT-2	PT-2	PT-2	EXISTING	EXISTING	PT-3
105	STACKS	PT-2	PT-2	PT-2	PT-2	EXISTING	EXISTING	PT-3
106	CHILDREN'S ROOM	PT-2	PT-2	PT-2	PT-2	EXISTING	EXISTING	PT-3
107	LIBRARY RETURNS	PT-2	PT-2	PT-2	PT-2	EXISTING	EXISTING	NO CEILING
201	OFFICE (MEZZANINE)	PT-2	PT-2	PT-2	PT-2	EXISTING	EXISTING	PT-3

PLUMBING FIXTURES AND ACCESSORIES - BASIS OF DESIGN

ROOM	LOCATION /DESCRIPTION	TYPE	MANUFACTURER (BOD)	MODEL / SERIES (BOD)	REMARK
ADA STAFF RESTROOM 007	FLOOR MOUNTED TOILET	P-01	KOHLER	HIGHCLIFF ULTRA K-96057-B	
	TOILET SEAT	P-02	KOHLER	STRONGHOLD OPEN FRONT K-4731-C	
	TOILET FLUSHOMETER	P-03	KOHLER	MACH TRIPOINT K-10TH00N10	
	SINK	P-04	AMERICAN STANDARD	DECORUM 9134001EC	
	SINK FAUCET	P-05	KOHLER	TAUT K-46028-4	
ADA VISITOR RESTROOM 008	FLOOR MOUNTED TOILET	P-01	KOHLER	HIGHCLIFF ULTRA K-96057-B	
	TOILET SEAT	P-02	KOHLER	STRONGHOLD OPEN FRONT K-4731-C	
	TOILET FLUSHOMETER	P-03	KOHLER	MACH TRIPOINT K-10TH00N10	
	SINK	P-04	AMERICAN STANDARD	DECORUM 9134001EC	
	SINK FAUCET	P-05	KOHLER	TAUT K-46028-4	
PANTRY 006A	SINK	P-07	ELKAY	LUSTERSTONE ELUHAD211555	
	FAUCET	P-08	ELKAY	ALLURE LK7921SSS	
CORRIDOR 001	DRINKING FOUNTAIN	P-06	ELKAY	EZH20 LZWS-LRPBM28K	
009, 014A, 104	SERVICE SINK FAUCET	P-10	ELKAY	LK940BP03T4H (SEE PLUMBING DWGS)	

ACCESSORY SCHEDULE (BASIS OF DESIGN)

ROOM NO.	LOCATION /DESCRIPTION	TYPE	MANUFACTURER (BOD)	MODEL/SERIES (BOD)	REMARKS
VISITOR AND STAFF RESTROOM	GRAB BARS	TA-1	BOBRICK	B-5806	SATIN FINISH
	HAND AND COAT HOOK	TA-2	BOBRICK	B-6827	SATIN FINISH
	TOILET TISSUE DISPENSER	TA-3	BOBRICK	B-4288	SATIN FINISH
	WASTE RECEPTACLE AND DISPENSER	TA-4	BOBRICK	B-3940	SATIN FINISH
	HAND DRYER	TA-5	BRADLEY	2923-287401	SATIN FINISH
	BABY CHANGING STATION	TA-6	KOALA KARE	KB300-00	BEIGE
	TOILET SEAT COVER DISPENSER	TA-7	BOBRICK	B-4221	SATIN FINISH
	SOAP DISPENSER	TA-8	ELVARI	6B1-1193	SATIN FINISH
	SANITARY NAPKIN DISPOSAL	TA-9	BOBRICK	B-270	SATIN FINISH
1	SANITARY NAPKIN DISPENSER	TA-10	BOBRICK	B-47064C	SATIN FINISH
	ILLUMINATED MIRROR	L9	ELVARI LED MIRROR BY BRADLEY	7B1-0018300	18"W X30"H

GENERAL DOOR NOTES

1. ALL EXISTING DOORS SHOWN TO REMAIN SHALL BE PROVIDED WITH A NEW ADA LEVERS & CYLINDERS, UNLESS OTHERWISE NOTED.
2. REFER TO HARDWARE SCHEDULE ON A-802.00
3. COORDINATE JAMB DIMENSIONS & THICKNESS W/ WALL TYPE.
4. PROVIDE SMOKE GASKETING AND CLOSER AT ALL FIRE RATED DOORS.
5. ALL RATED DOORS TO BE FACTORY PREPARED WITH APPLICABLE HARDWARE OPENINGS PRIOR TO DELIVERY ON SITE.
6. UL LISTED LABEL ON DOORS TO REMAIN LEGIBLE AND UNPAINTED.
7. ALL HOLLOW METAL FRAMES TO BE FACTORY WELDED.
8. SELF-CLOSING AND SELF-LOCKING DOORS TO BE PROVIDED AS REQUIRED BY CODE.
9. NEW HOLLOW METAL DOORS AND FRAMES SHALL BE CONSTRUCTED OF COLD ROLLED STEEL WITH PRIMER COAT.

GENERAL FINISH NOTES

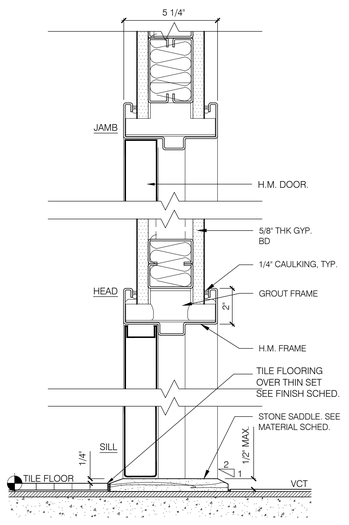
1. ALL EXPOSED WALLS TO REMAIN SHALL BE SCRAPED AND CLEANED TO RECEIVED PAINT FINISH

GLAZING SCHEDULE

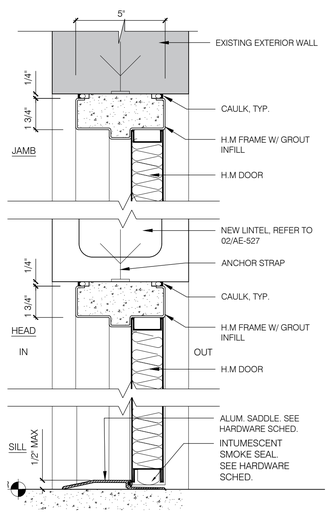
GLAZING	
GL-01	1" CLEAR TEMPERED GLASS INSULATED PANELS SHALL BE (2) TWO 1/4" TEMPERED GLASS PANES W/ 1/2" AIR SPACE & "LOW E" TRANSMISSION FILM BETWEEN. SUBMIT SAMPLE TO COMMISSIONER FOR REVIEW AND APPROVAL.
GL-02	1/4" CLEAR TEMPERED GLASS SUBMIT SAMPLE TO COMMISSIONER FOR REVIEW AND APPROVAL.

GLAZING GENERAL NOTES

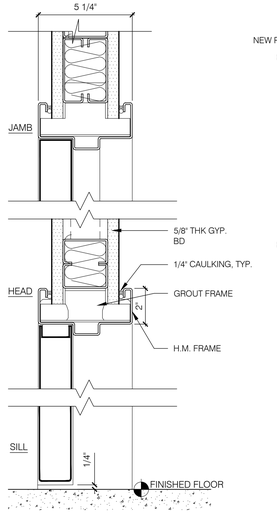
1. SEE STOREFRONT ELEVATIONS & DETAILS
2. PROVIDE STOREFRONT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
3. CONTRACTOR SHALL VERIFY EXISTING SILL CONDITIONS, REPAIR AND REFURBISH AS REQUIRED TO PROVIDE A SOUND, PLUMB AND LEVEL SURFACE.
4. GLAZING TAPE SHALL BE A MINIMUM OF 1/8" THICK, TREMCO POLYSHIM ii OR PECORA DYNASEAL OR APPROVED EQUAL.
5. CAP BEAD SHALL BE A MINIMUM 1/8" THICK, TREMCO PROGLAZE, PECORA 864 OR APPROVED EQUAL. SPACER SHALL BE COMPATIBLE WITH THE CAP.



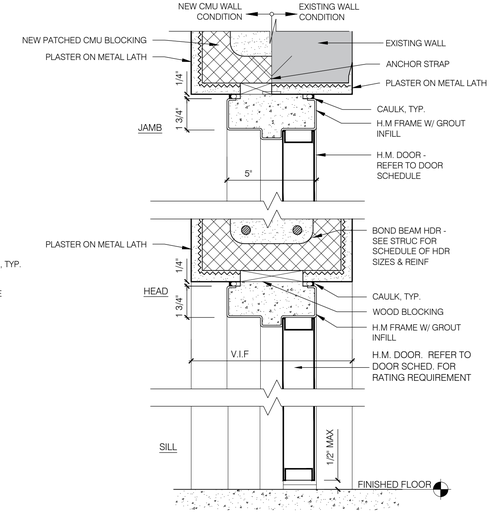
D1 HEAD/JAMB/SILL
SCALE: 3"=1'-0"



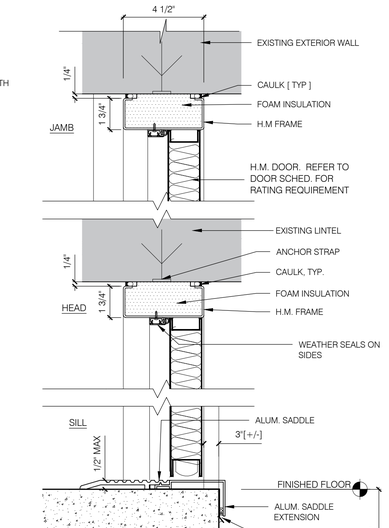
D2 HEAD/JAMB/SILL
SCALE: 3"=1'-0"



D3 HEAD/JAMB/SILL
SCALE: 3"=1'-0"



D4 HEAD/JAMB/SILL
SCALE: 3"=1'-0"



D5 HEAD/JAMB/SILL
SCALE: 3"=1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
SCHEDULES & DOOR DETAILS

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 029239 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-801.00
CAD FILE No:	

HARDWARE SCHEDULE (BASIS OF DESIGN)

QTY (EA)	DESCRIPTION	CATALOG (BOD)	MANUFACTURER (BOD)	FINISH	COMMENTS
HW SET #01- EGRESS, PASSAGE, NON-RATED					
3 EA	HINGE	5BB1HW 4.5X4.5	IVES	652	
1 EA	PANIC HARDWARE	98-L-BE-02	VON DUPRIN	626	
1 EA	SURFACE CLOSER	4050A RW/PA	LCN	689	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	
1 EA	WALL STOP	WS406/407CVX	IVES	630	
3 EA	SILENCER	SR64	IVES	GRY	OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED
SET #01.1 - EGRESS, LOCKED, ALARMED, EXTERIOR					
3 EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVES	630	
1 EA	POWER TRANSFER	EPT10 CON	VON DUPRIN	689	
1 EA	ELEC PANIC HARDWARE	RX-98-NL-OP-110MD-ALK-CON 9-VOLT BATTERY WITH HARDWIRED OPTION	VON DUPRIN	626	
1 EA	TRIM	392-7	VON DUPRIN	626	
1 EA	SFIC MORTISE CYLINDER	80-132 X K510-730		626	
1 EA	SFIC RIM CYLINDER	80-159		626	
2 EA	SFIC CORE			626	PERMANENT CORE PROVIDED BY OWNER
1 EA	SURFACE CLOSER	4050A SCUSH	LCN	689	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	
1 EA	GASKETING	429AA-S	IVES	AA	
1 EA	DOOR SWEEP	8197AA	ZERO	AA	
1 EA	THRESHOLD	566A	ZERO	A	
1 EA	WIRE HARNESS	CON-LENGTH TO SUIT	SCHLAGE		
1 EA	WIRE HARNESS	CON-6W	SCHLAGE		
1 EA	NOTE	DOOR CONTACT(S) - WORK OF DIVISION 28			
1 EA	NOTE	POWER SUPPLY - WORK OF DIVISION 28			
SET #01A - EGRESS, PUSH/PULL, A/G					
2 EA	CONTINUOUS HINGE	112XY	IVES	313AN	
2 EA	DUMMY PUSH BAR	350	VON DUPRIN	313	
2 EA	TRIM	392-6	VON DUPRIN	626	
2 EA	SURFACE CLOSER	4050A SCUSH	LCN	695	
2 EA	PA MOUNTING PLATE	4050A-18PA SRT	LCN	695	AS REQUIRED
1 EA	THRESHOLD	566A	ZERO	A	
1 EA	AUTOMATIC FLUSH BOLT	FB52	IVES	US10	
1 EA	NOTE				SEALS BY DOOR MANUFACTURER - SECTION 08 41 13
SET #01A.1 - EGRESS, LOCKABLE (DOGGING), A/G					
2 EA	CONTINUOUS HINGE	112XY	IVES	313AN	
2 EA	PANIC HARDWARE	3547A-NL-OP-388	VON DUPRIN	313	
2 EA	TRIM	392-6	VON DUPRIN	626	
2 EA	SFIC RIM CYLINDER	80-159	SCHLAGE	613	
2 EA	SFIC CORE	PERMANENT CORE PROVIDED BY OWNER	BES	613	
2 EA	SURFACE CLOSER	4050A SCUSH	LCN	695	
2 EA	PA MOUNTING PLATE	4050A-18PA SRT	LCN	695	AS REQUIRED
1 EA	AUTOMATIC FLUSH BOLT	FB52	IVES	US10	
1 EA	NOTE	SEALS BY DOOR MANUFACTURER - SECTION 08 41 13	ZERO	A	
SET #02 - STOREROOM					
3 EA	HINGE	5BB1HW 4.5 X 4.5 NRP	IVES	652	
1 EA	STOREROOM MORTISE LOCK	45H-7-D-12-H	BEST	626	
1 EA	SFIC CORE	PERMANENT CORE PROVIDED BY OWNER	BEST	626	
1 EA	SURFACE CLOSER	4050A EDA	LCN	689	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	
1 EA	WALL STOP	WS406/407CVX	IVES	630	
1 EA	GASKETING	488SBK PSA	ZERO	BK	PROVIDE AT SMOKE AND/OR FIRE RATED DOORS
1 EA	THRESHOLD	545A	A	ZERO	
3 EA	SILENCER	SR64	IVES	GRAY	OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED
SET #04 - PRIVACY					
3 EA	HINGE	5BB1HW 4.5 X 4.5	IVES	652	
1 EA	PRIVACY MORTISE LOCK	45H-0-L-12-H-VIN	BEST	626	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	
1 EA	MOP PLATE	8400 10" B-CS	IVES	630	
1 EA	WALL STOP	WS406/407CVX	IVES	630	
1 EA	GASKETING	488SBK PSA	ZERO	BLACK	PROVIDE AT SMOKE AND/OR FIRE RATED DOORS
1 EA	COAT AND HAT HOOK	B-6827	BOBRICK	SATIN FINISH	
3 EA	SILENCER	SR64	IVES	GRAY	
1 EA	THRESHOLD				PER SILL DETAIL
SET #07 - LOCKABLE					
3 EA	HINGE	5BB1HW 4.5 X 4.5	IVES	652	
1 EA	CLASSROOM MORTISE LOCK	45H-7-R-12-H	BEST	626	
1 EA	SFIC CORE		BEST	626	PERMANENT CORE BY OWNER
1 EA	SURFACE CLOSER	4050A RW/PA	LCN	689	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	
1 EA	WALL STOP	WS406/407CVX	IVES	630	
1 EA	GASKETING	488SBK PSA	ZERO	BK	PROVIDE AT SMOKE AND/OR FIRE RATED DOORS
1 EA	THRESHOLD	545A	ZERO	A	
3 EA	SILENCER	SR64	IVES	GRAY	OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED
SET #07.1 - LOCKABLE					
3 EA	HINGE	5BB1HW 4.5 X 4.5	IVES	652	
1 EA	CLASSROOM MORTISE LOCK	45H-7-R-12-H	BEST	626	
1 EA	SFIC CORE	PERMANENT CORE PROVIDED BY OWNER	IVES	652	
1 EA	OH STOP	100S	GLY	630	
1 EA	SURFACE CLOSER	4050A RW/PA	LCN	689	
1 EA	MOUNTING PLATE	4050A-18 ST-5203	LCN	689	
1 EA	SURFACE CLOSER	4050A RW/PA	LCN	689	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	
1 EA	GASKETING	488SBK PSA	ZERO	BK	PROVIDE AT SMOKE AND/OR FIRE RATED DOORS
1 EA	THRESHOLD	545A	ZERO	A	
1 EA	SILENCER	SR 64	IVES	GRAY	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	

QTY (EA)	DESCRIPTION	CATALOG (BOD)	MANUFACTURER (BOD)	FINISH	COMMENTS
SET #CR02 - CARD READER, FAIL SECURE					
3 EA	HINGE	5BB1HW 4.5 X 4.5	IVES	652	
1 EA	POWER TRANSFER	EPT10 CON	VON DUPRIN	689	
1 EA	ELECTRIFIED MORTISE LOCK	45HW-7-DEU-12-H-RQE	BEST	626	
1 EA	SFIC CORE	PERMANENT CORE PROVIDED BY OWNER	BEST	626	
1 EA	OH STOP	100S	GLY	630	
1 EA	SURFACE CLOSER	4050A RW/PA	LCN	689	
1 EA	MOUNTING PLATE	4050A-18 ST-5203	LCN	689	
1 EA	KICK PLATE	8400 10" B-CS	IVES	630	
1 EA	GASKETING	488SBK PSA	ZERO	BK	PROVIDE AT SMOKE AND/OR FIRE RATED DOORS
1 EA	THRESHOLD	545A	ZERO	A	
3 EA	SILENCER	SR64	IVES	GRAY	OMIT WHERE SMOKE/FIRE SEALS ARE PROVIDED
1 EA	WIRE HARNESS	CON-LENGTH TO SUIT	SCHLAGE		
1 EA	WIRE HARNESS	CON-6W	SCHLAGE		
1 EA	NOTE	CARD READER(S) - WORK OF DIVISION 28			
1 EA	NOTE	DOOR CONTACT(S) - WORK OF DIVISION 28			
1 EA	NOTE	POWER SUPPLY - WORK OF DIVISION 28			

NOTE :

SET 01.01- IMMEDIATE EGRESS ALWAYS ALLOWED. ENTRY BY KEY. USE OF TOUCH BAR WILL ACTIVATE ALARM. DEVICE CAN BE ARMED, RESET OR DISARMED REMOTELY OR BY KEY CYLINDER IN PANIC DEVICE.

SET CR02 - IMMEDIATE EGRESS ALWAYS ALLOWED. ACCESS BY KEY OR BY CARD READER. CARD READER WILL UNLOCK LOCKSET AND ALLOW ACCESS. REQUEST TO EXIT AND DOOR POSITION SWITCH CONNECTED TO BUILDING'S SECURITY SYSTEM.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

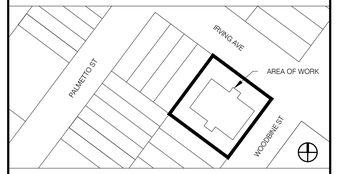
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
DOOR HARDWARE SCHEDULE

SEAL & SIGNATURE

REGISTERED ARCHITECT NANDINEE PHOOKAN 026125 STATE OF NEW YORK

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	AD/RN
CHECKED BY:	NP
DRAWING NUMBER:	A-802.00
CAD FILE No:	30 OF 30

360 IRVING AVENUE
BROOKLYN, NY,11237
BUILDING ENVELOPE RESTORATION

PROCEDURES:

1. THE CONTRACTOR WILL TAKE FIELD MEASUREMENTS. CHECK AND VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON THE JOB.
2. THE CONTRACTOR WILL NOTIFY THE PROFESSIONAL OF RECORD OF ANY DISCREPANCY IN THE PLANS OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK RELATED TO, OR AFFECTED BY THE DISCREPANCY. THE PROFESSIONAL OF RECORD CAN BE CONTACTED AT 646-292-3515.
3. THE CONTRACTOR WILL GIVE AT LEAST 48 HOURS NOTICE OF THE NEED FOR CLARIFICATION OR ADDITIONAL INFORMATION FROM THE PROFESSIONAL OF RECORD.
4. THE PROFESSIONAL OF RECORD WILL NOT HAVE CONTROL OVER OR CHARGE OF, AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, SAFETY PRECAUTIONS, AND SAFETY PROGRAMS IN CONNECTION WITH THE WORK. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
5. THE PROFESSIONAL OF RECORD WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR ABILITY TO CARRY OUT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE PROFESSIONAL OF RECORD WILL NOT HAVE CONTROL OVER OR CHARGE OF ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR AGENTS OR EMPLOYEES OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.
6. THE OWNER AND CONTRACTOR WILL HOLD THE PROFESSIONAL OF RECORD AND THE PROFESSIONAL OF RECORD'S EMPLOYEES HARMLESS FROM ANY DISPUTES OR DAMAGES ARISING FROM NONCOMPLIANCE TO THESE CONTRACTS, DRAWINGS OR CODES, INCLUDING BUT NOT LIMITED TO ANY PAYMENTS OR LEGAL FEES.
7. DO NOT SCALE DRAWINGS, CONTACT PROFESSIONAL OF RECORD FOR CLARIFICATIONS IF REQUIRED.
8. PERMITS IN CONJUNCTION WITH ERECTION OF SCAFFOLDING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION CODE COMPLIANCE:

1. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE NYC 2022 BUILDING CODE, ORDINANCES OF THE CITY OF NEW YORK AND ALL APPLICABLE FEDERAL, STATE, COUNTY, AND/OR LOCAL REGULATIONS.

PROTECTION NOTES:

1. VEHICULAR AND PEDESTRIAN EGRESS AROUND THE WORK AREA MUST BE MAINTAINED AT ALL TIMES. PROTECTIONS AND BARRIERS WILL BE INSTALLED TO PROTECT PEDESTRIANS AND VEHICLES AND PROHIBIT ACCESS BY UNAUTHORIZED PERSONS WITHIN THE WORK AREA FOR THE COURSE OF THIS WORK.
2. PROTECTIONS MUST BE INSTALLED AS NECESSARY TO PROTECT EXISTING BUILDINGS AND SITE CONSTRUCTION DURING THE COURSE OF THIS WORK INCLUDING BUT NOT LIMITED TO WALL GLAZING, STAIRS, WALKWAYS, RAILINGS, AND GATES.
3. BUILDING MATERIALS AND AREAS OF THE SITE NOT DESCRIBED AS RECEIVING WORK IN THESE DRAWINGS WILL REMAIN. CONTRACTOR WILL BE RESPONSIBLE AND TAKE REASONABLE CARE TO AVOID DAMAGE TO ALL ITEMS NOT SCHEDULED TO RECEIVE WORK IN THESE DRAWINGS. REPAIR AND RESTORE TO EXISTING CONSTRUCTION AND FINISHES AND THE OWNER'S PERSONAL PROPERTY CAUSED BY CARELESS WORK PRACTICES WILL BE PAID FOR BY THE CONTRACTOR.
4. CONTRACTOR WILL PROVIDE PROPER DUST AND NOISE MITIGATION PLANS AS REQUIRED BY THE CITY OF NEW YORK TO BE KEPT ON SITE AND MADE AVAILABLE FOR INSPECTION UPON THE REQUEST OF AN AUTHORIZED CITY REPRESENTATIVE.
5. CONTRACTOR TO PROTECT SUBJECT BUILDING AND NEIGHBORING BUILDING'S ROOF, AND MAINTAIN PROTECTIONS THROUGHOUT PROJECT.

EXISTING CONDITIONS:

1. THE EXISTING STRUCTURE INDICATED ON PLANS IS ASSUMED. THE CONTRACTOR WILL EXPOSE THE EXISTING STRUCTURE AS REQUIRED TO CONFIRM TRUE CONDITIONS BEFORE PROCEEDING WITH ANY REPAIR AND RESTORE. NOTIFY AND CONSULT WITH PROFESSIONAL OF RECORD IF STRUCTURE VARIES FROM ASSUMED CONDITIONS.
2. THE FALCON GROUP MAKES NO REPRESENTATION RELATIVE TO THE STABILITY OF THE EXISTING WALLS, FLOORS AND ROOFS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE AND PROVIDE ANY NECESSARY TEMPORARY SHORING SO AS TO MAINTAIN THE STABILITY OF THE EXISTING WALLS, FLOORS AND ROOFS DURING CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO CONTINUOUSLY MONITOR THE EXISTING WALLS, FLOORS AND ROOF DURING CONSTRUCTION FOR ANY MOVEMENT.

GENERAL NOTES:

1. ALL FINISHES, AND COLOR SELECTIONS WILL BE CONFIRMED WITH THE OWNER/MANAGER, IN WRITING BEFORE PURCHASING SUCH ITEMS WHICH MAY BE SELECTED BASED UPON DESIGN PREFERENCES.
2. IF ANY UTILITIES OR SERVICES (GAS, ELECTRIC, TELEPHONE, WATER SEWER, ETC.) MUST BE DISTURBED OR RELOCATED DUE TO CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE AUTHORITY AS REQUIRED AND ARRANGE FOR THE REQUIRED PERMITS. CONTRACTOR WILL PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO DISCONNECTION OF EXISTING UTILITIES.
3. WORK WILL TAKE PLACE BETWEEN THE HOURS OF 8:00AM AND 5:00PM MONDAY THRU FRIDAY OR AS APPROVED BY OWNER AND NYC DOB. CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH AFTER HOURS OR WEEKEND WORK PERMITS.
4. THE FALCON GROUP IS NOT RESPONSIBLE FOR INSPECTION OR IMPLEMENTATION OF JOB SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REQUIREMENTS INCLUDE STRICT ADHERENCE TO OSHA REQUIREMENTS.

EXECUTION:

1. ALL MATERIALS WILL BE INSTALLED IN ACCORDANCE WITH THESE DRAWINGS AND MANUFACTURER PUBLISHED SPECIFICATIONS. WHERE DISCREPANCY EXISTS, CONTRACTOR WILL NOTIFY PROFESSIONAL OF RECORD FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
2. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS.
3. ALL WORK WILL BE PERFORMED WITH EXPERIENCED LABOR AND QUALITY WORKMANSHIP.

MATERIALS:

1. SUBSTITUTION OF MATERIALS WILL ONLY BE MADE BY WRITTEN CHANGE ORDER AUTHORIZED BY THE OWNER AND PROFESSIONAL OF RECORD.
2. CONTRACTOR WILL PROVIDE PRODUCT DATA AND PHYSICAL SAMPLES OF ALL MATERIALS THAT WILL BE USED.

MASONRY:

1. FACE BRICK WILL CONFORM TO ASTM C216FBS GRADE SW FACE BRICK AND WILL HAVE SIZE, COLOR AND TEXTURE APPROVED BY OWNER AND PROFESSIONAL OF RECORD WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. EXISTING BRICK AT NORTH AND EAST ELEVATIONS IS OVERSIZED; MATCH VIA CUSTOM BRICK AS REQUIRED.
2. BUILDING BRICK WILL CONFORM TO ASTM C62 GRADE SW BRICK AND WILL MATCH EXISTING SIZE WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
3. MORTAR FOR BRICK WILL BE TYPE N WITH MINIMUM COMPRESSIVE STRENGTH OF 750 PSI AND WILL CONFORM TO ASTM. MORTAR COLOR WILL BE APPROVED BY OWNER AND PROFESSIONAL OF RECORD.
4. MIXING WATER WILL BE POTABLE, REFURBISH AND FREE OF OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIALS OR OTHER SUBSTANCES DELETERIOUS TO METAL TIES AND REINFORCEMENT.
5. ARCHITECTURAL CAST STONE WILL HAVE MINIMUM 6000 PSI: COMPRESSIVE STRUCTURAL COMPRESSIVE STRENGTH, 6% AIR ENTRAINMENT AND PROVIDED BY A PCI APPROVED FABRICATOR VESTACAST OR PROFESSIONAL OF RECORD APPROVED ALTERNATIVE. CONTRACTOR WILL SUBMIT MIX DESIGN FOR PROFESSIONAL OF RECORD APPROVAL.

GENERAL REMOVALS NOTES:

1. THE DEMOLITION AND REMOVAL OF ANY EXISTING CONSTRUCTION ON SITE AS REQUIRED FOR THIS PROJECT WILL BE PART OF THIS CONTRACT. CONTRACTOR WILL ADHERE TO ALL CONSTRUCTION INDUSTRY STANDARD PRACTICE TECHNIQUES FOR STRUCTURAL DEMOLITION AS REQUIRED UNDER THIS CONTRACT. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY SHORING OR BRACING AS REQUIRED TO SUPPORT THE REMAINING STRUCTURE WHEN ANY LOAD BEARING STRUCTURE IS REMOVED.
2. PROTECT ALL UTILITY LINES FROM DAMAGE DURING DEMOLITION.
3. PROTECT THE EXTERIOR WALLS AND FENESTRATION DURING WORK. DUST, DEBRIS, AND WEATHER WILL BE SEALED OUT OF THE BUILDING INTERIOR DURING THIS WORK.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ADHERING TO AND ENFORCING ALL DEMOLITION SAFETY RULES AND REGULATIONS AS MAY BE REQUIRED BY LOCAL, STATE, OR OSHA REGULATIONS.
5. THE CONTRACTOR WILL CONSULT WITH THE PROFESSIONAL OF RECORD IF ANY QUESTIONABLE CONDITIONS ARE ENCOUNTERED DURING THE DEMOLITION PHASE. THE CONTRACTOR WILL NOT PROCEED WITH ANY WORK UNTIL ANY UNSTABLE CONDITIONS ARE RESOLVED. CONTRACTOR WILL DETERMINE THE SEQUENCING OF DEMOLITION WORK.
6. THE PROFESSIONAL OF RECORD WILL NOT BE RESPONSIBLE FOR THE MAINTENANCE, OR POSSIBLE REMOVAL OF THE FOLLOWING ITEMS FROM THE PROJECT SITE WHICH MAY BE DISCOVERED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION: ASBESTOS, LEAD, PCB OR ANY OTHER MATERIAL CLASSIFIED AS HAZARDOUS.
7. UPON DISCOVERY, THE CONTRACTOR WILL NOT DISTURB OR DAMAGE ANY OF THE ABOVE MENTIONED ITEMS, BUT WILL NOTIFY THE OWNER IMMEDIATELY OF THE SITUATION. FURTHERMORE THE CONTRACTOR WILL PROCEED WITH ARRANGING FOR ALL INSPECTIONS AND FOR HIRING APPROPRIATE LICENSED PROFESSIONALS AS REQUIRED TO RECTIFY THE DISCOVERED PROBLEM. THE CONTRACTOR WILL OBTAIN APPROVAL FROM THE OWNER FOR ALL EXTRA COSTS BEFORE PROCEEDING WITH THE WORK, AND WILL OBTAIN APPROVALS FROM ALL REGULATORY AGENCIES.
8. CONSTRUCT AND MAINTAIN TEMPORARY ENCLOSURES AT ALL FENESTRATION WITHIN WORK AREA TO PREVENT PASSAGE OF DUST TO BUILDING INTERIOR.
9. USE POWER TOOLS WITH VACUUMS OR OTHER APPROVED DUST MITIGATION ACCESSORIES TO LIMIT AIR BORNE DUST. PERFORM ALL WORK TO CONFORM WITH OSHA AND DOB EXPOSURE LIMITS FOR SILICA DUST.

GENERAL SAFETY NOTES:

1. CONTRACTOR'S SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR INSPECTION OF OPERATIONS TO ENSURE COMPLIANCE WITH THE 2022 NYC BUILDING CODE, INCLUDING BUT NOT LIMITED TO INSPECTION OF EQUIPMENT OR DEVICES WHERE THERE USE REPRESENTS A POSSIBLE RISK TO PUBLIC SAFETY.
2. CONTRACTOR WILL PROMPTLY NOTIFY THE NEW YORK CITY BUILDING DEPARTMENT AND THE PROFESSIONAL OF RECORD OF ANY AND ALL ACCIDENTS AT WORK SITE.
3. CONTRACTOR WILL BE RESPONSIBLE FOR CONSTRUCTING AND ERECTING A SIGN AT THE WORK SITE WITH THE FOLLOWING INFORMATION:
   a. NAME, ADDRESS, AND TELEPHONE NUMBER OF THE OWNER OF THE PROPERTY
   b. NAME, ADDRESS, AND TELEPHONE NUMBER OF THE GENERAL CONTRACTOR
   c. PHONE NUMBER FOR REPORTING COMPLAINTS
   SIGNS WILL BE CONSTRUCTED ON 3/4" PLYWOOD OR SHEET METAL. LETTERS WILL BE BLACK ON WHITE BACKGROUND. LETTERS WILL BE MINIMUM 3" IN HEIGHT. COPY OF ALL PERMITS WILL BE POSTED ON SIGN.
1. CONTRACTOR WILL LOCATE EQUIPMENT AND MACHINES BEHIND GUARDS OR SHIELDS TO PREVENT CONTACT BY PUBLIC.
2. PROVIDE CHAMFERED BLOCKS WHERE HOSE LINES, WIRES, ROPES, CONDUITS, OR OTHER TRIPPING MATERIALS EXTEND ACROSS SIDEWALK OR PUBLIC WAY.
3. CONTRACTOR SHED WILL BE CONSTRUCTED OF METAL OR OTHER NON-COMBUSTIBLE MATERIAL.
4. UTILITY COMPANY OR CITY AGENCY WITH ANY EXISTING UTILITIES AND SERVICE LINES TO BE REMOVED, RELOCATED, OR HAVE ITS SERVICE INTERRUPTED WILL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE. APPROPRIATE MEASURES MUST BE TAKEN TO SAFEGUARD THE PUBLIC AND PROPERTY BEFORE SUCH UTILITIES ARE DISTURBED.
5. ALL AREAS USED BY THE PUBLIC WILL BE MAINTAINED FREE FROM ICE, SNOW, GREASE, DEBRIS, EQUIPMENT, TOOLS, OR OTHER ITEMS THAT MAY CONSTITUTE A SLIPPING, TRIPPING, OR OTHER HAZARD.
6. REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES, AND SANITARY SAFEGUARDS WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
7. DRAINAGE PATHS WILL NOT BE OBSTRUCTED BY DEBRIS OR OTHER MATERIALS AND WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
8. ADJOINING PUBLIC AND PRIVATE PROPERTY WILL BE PROTECTED FROM DAMAGE, WATER RUN-OFF, AND EROSION DURING CONSTRUCTION.
9. CONTRACTOR WILL PROVIDE SAFETY ZONE IN ACCORDANCE W/ NYC BC 3306.2.1 & ALL OTHER APPLICABLE REGULATIONS.

TENANT PROTECTION PLAN NOTES:

1. THE SUBJECT BUILDING CURRENTLY HAS NO ACTIVE TENANTS AND THEREFORE IS EXEMPT FROM ACQUIRING A TENANT PROTECTION PLAN.

FLOOD ZONE NOTES

1. THE BUILDING ADDRESS IS NOT LOCATED WITHIN A FEMA SPECIAL FLOOD HAZARD ZONE AND THE PROJECT IS EXEMPT FROM SUBSTANTIAL IMPROVEMENT.

PROGRESS INSPECTIONS:

1. FINAL INSPECTION PROFESSIONAL OF RECORD TO PERFORM FINAL INSPECTION IN ACCORDANCE WITH DIRECTIVE 14 OF 1975 AND I RCNY 101-10.

SPECIAL INSPECTIONS:

- MASONRY (BC 1704.4 2022)
- POST-INSTALLED ANCHORS (BC 1705.37 2022)

SIDEWALK SHED:

1. PEDESTRIANS WILL BE PROTECTED DURING CONSTRUCTION, ALTERATION, REMODELING, OR DEMOLITION ACTIVITIES AS REQUIRED BY SECTION BC 3307 (PROTECTION OF PEDESTRIANS) AND SECTION BC 3301.10 (OBSCURED LAWFUL SIGNS), AND BY THE RULES OF THE DEPARTMENT OF TRANSPORTATION. SIGNS WILL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC AS REQUIRED.
2. SIDEWALK SHEDS WILL BE ERECTED WHEN AND WHERE REQUIRED BY SECTION BC 3307.6 (SIDEWALK SHEDS).
3. CONTRACTOR WILL BE RESPONSIBLE FOR ERECTING AND MAINTAINING THE SIDEWALK SHED AND/OR OTHER REQUIRED MEANS OF OVERHEAD PROTECTION IN ACCORDANCE WITH BUILDING CODE AND NYC REGULATIONS.
4. ALL REQUIRED SIDEWALK SHEDS ARE TO BE FILED UNDER A SEPARATE APPLICATION (PRIOR TO PERMIT IF CONTRACTOR ELECTS TO REPLACE EXISTING)
5. THE SIDEWALK SHED INSTALLER WILL OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED BY GOVERNING AGENCIES PRIOR TO ERECTING SIDEWALK SHED.
6. A SIDEWALK SHED WILL BE ERECTED AT AREAS REQUIRED, PRIOR TO START OF CONSTRUCTION. SIDEWALK SHEDS WILL REMAIN IN PLACE UNTIL COMPLETION OF THE WORK AND SIGN OFF OF OUTSTANDING FISP CONDITIONS BY THE DOB.
7. THE DESIGN AND CONSTRUCTION OF REQUIRED SIDEWALK SHEDS WILL COMPLY WITH THE REQUIREMENTS OF SECTION BC 3307.6.4 (DESIGN AND CONSTRUCTION OF SIDEWALK SHEDS).
8. SIDEWALK SHED PERMIT HOLDER WILL POST A SIGN THAT WILL COMPLY WITH SECTION BC 3301.9.2 (SIDEWALK SHED PARAPET PANEL) WHICH WILL INCLUDE THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PERMIT HOLDER, THE PERMIT NUMBER AND THE EXPIRATION DATE OF THE PERMIT.
9. THE USE AND MAINTENANCE OF SIDEWALK SHEDS WILL COMPLY WITH THE REQUIREMENTS OF SECTION BC 3307.6.5 (INSTALLATION, ADJUSTMENT, MAINTENANCE, REPAIR AND RESTORE, USE, INSPECTION, AND REMOVAL OF SIDEWALK SHEDS): MATERIAL AND DEBRIS WILL NOT BE STORED ON SIDEWALK SHEDS UNLESS THE SHED HAS BEEN SO DESIGNED IN ACCORDANCE WITH RULES PROMULGATED BY THE COMMISSIONER PER SECTION 3307.6.5.4 (STORAGE AND PLACEMENT OF ITEMS) AND 3307.6.4.2.2 (STORAGE). THE UNDERSIDE OF SIDEWALK SHEDS WILL BE LIGHTED AT ALL TIMES EITHER BY NATURAL OR ARTIFICIAL LIGHT CONFORMING TO THE REQUIREMENTS OF SECTION BC 3307.6.4.8 (LIGHTING).

SCAFFOLDING:

1. IN ACCORDANCE WITH NYC B.C. 28-104.2.6 OF TITLE 28 SCAFFOLD WILL BE FILED UNDER A SEPARATE APPLICATION BY THE CONTRACTOR'S LICENSED PROFESSIONAL.

ADDITIONAL ALLOWANCES

1. THE FOLLOWING REPAIR AND RESTORE ARE TO BE INCLUDED IN THE BID AND ARE IN ADDITION TO ALL REPAIR AND RESTORE SPECIFICALLY INDICATED THROUGHOUT THE DOCUMENTS. ANY QUANTITY USED, GREATER OR LOWER, WILL BE AN EXTRA OR CREDIT RESPECTIVELY TO THE OWNER BASED ON BIDDERS SUBMITTED UNIT PRICE. UPON MOBILIZATION AND UP-CLOSE ACCESS, CONTACT DESIGN PROFESSIONAL OF RECORD FOR REVIEW AND APPROVAL OF ALLOWANCE QUANTITIES.

OWNER / APPLICANT	BROOKLYN PUBLIC LIBRARY
360 IRVING AVE, BROOKLYN NEW YORK, 11237	
LOT: 32	
BLOCK: 3362	
BIN: 3076852	
ZONING MAP: 13B	
ZONING DISTRICT: R6	
SPECIAL DISTRICT: N/A	
OCCUPANCY CLASS: B	
CONSTRUCTION CLASS: 1	
BUILDING HEIGHT: ~65'	
SITE SAFETY PLAN NOT REQUIRED	
SITE SAFETY MANAGER NOT REQUIRED	
SPECIAL FLOOD HAZARD AREA (SFHA)- NO	
L - LANDMARK: NO	

SCOPE OF WORK:

1. BRICK FIELD REPLACEMENT
2. BRICK CORNER RECONSTRUCTION
3. BRICK CRACK RESTORE
3. STONE PATCH RESTORE
8. STONE CRACK RESTORE
9. BRICK POINTING
10. STONE POINTING
11. MASONRY AND STONE REFURBISHMENT
12. STONE CHIMNEY CAP REPLACEMENT
13. ROOF AND FLASHING REPLACEMENT
14. GUTTER, LEADERBOX, AND LEADER REPLACEMENT
15. SNOWPAD REPLACEMENT
16. CONCRETE CURB AND FENCE REPLACEMENT
17. CONCRETE CURB REPLACEMENT AND FENCE REFURBISHMENT
18. SIDEWALK FLAG REPLACEMENT
19. FOUNDATION WALL WATERPROOFING (AND EXCAVATION)
20. FIELD LOUVER REPLACEMENT
21. DOOR LINTEL REPLACEMENT



N

SITE LOCATION MAP
SCALE: N.T.S.

PROJECT LOCATION:
360 IRVING AVENUE
BROOKLYN, NY, 11237

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

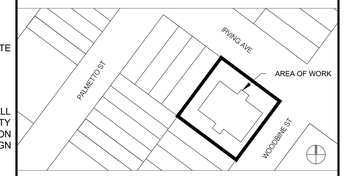
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

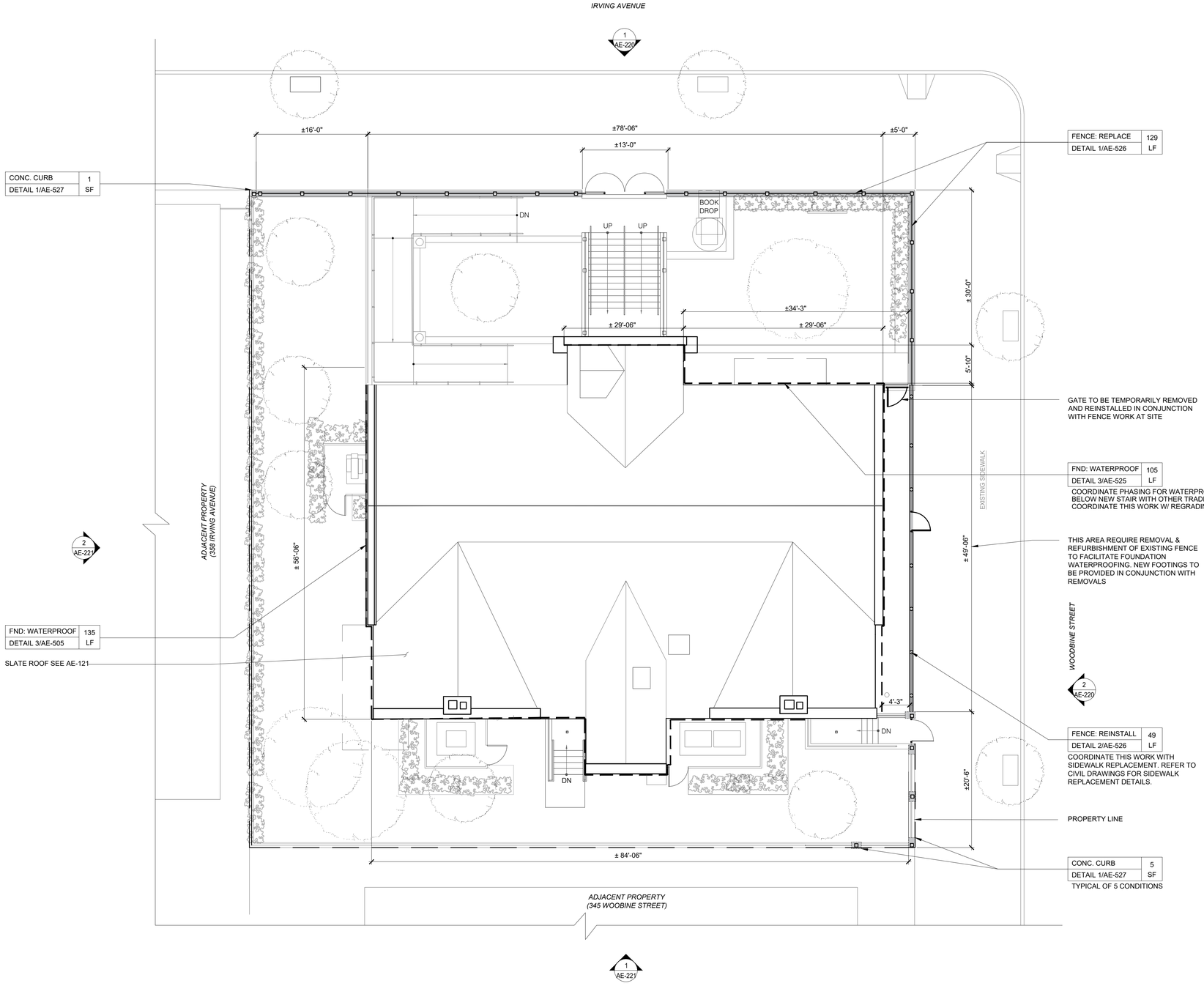
DRAWING TITLE:
EXTERIOR RESTORATION NOTES

SEAL & SIGNATURE



DATE: 03.11.2024
PROJECT NO: LBP21WIBR
DRAWN BY:
CHECKED BY:
DRAWING NUMBER: AE-021.00
CAD FILE No: 1
OF 30

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1 AE-120 SITE AND FOUNDATION REPAIR AND RESTORE
Scale: 1/8" = 1'-0"

SCOPE OF WORK SYMBOL LEGEND				
SITE & FOUNDATION REPAIRS & RESTORE TYPE & SYMBOL		NUM. OF CONDITIONS	TOTAL	UNITS
CONCRETE: CURB REPAIRS & RESTORE		6	6	SF
FENCE: REPLACEMENT		-	129	LF
FENCE: REINSTALLATION		-	49	LF
FOUNDATION: WATERPROOFING		-	239	LF

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	TREE
	SIDEWALK CURB RAMP
	NEW GATE
	PROPERTY LINE
	BOOK DEPOSIT

NOTES:

1. PLANS ARE SCHEMATIC IN NATURE, CONTRACTOR TO VERIFY ALL CONDITIONS IN FIELD.
2. REFER TO CURB/SITE DETAILS AE506 FOR FENCE ELEVATIONS AT WOODBINE & IRVING.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

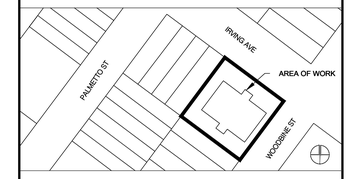
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

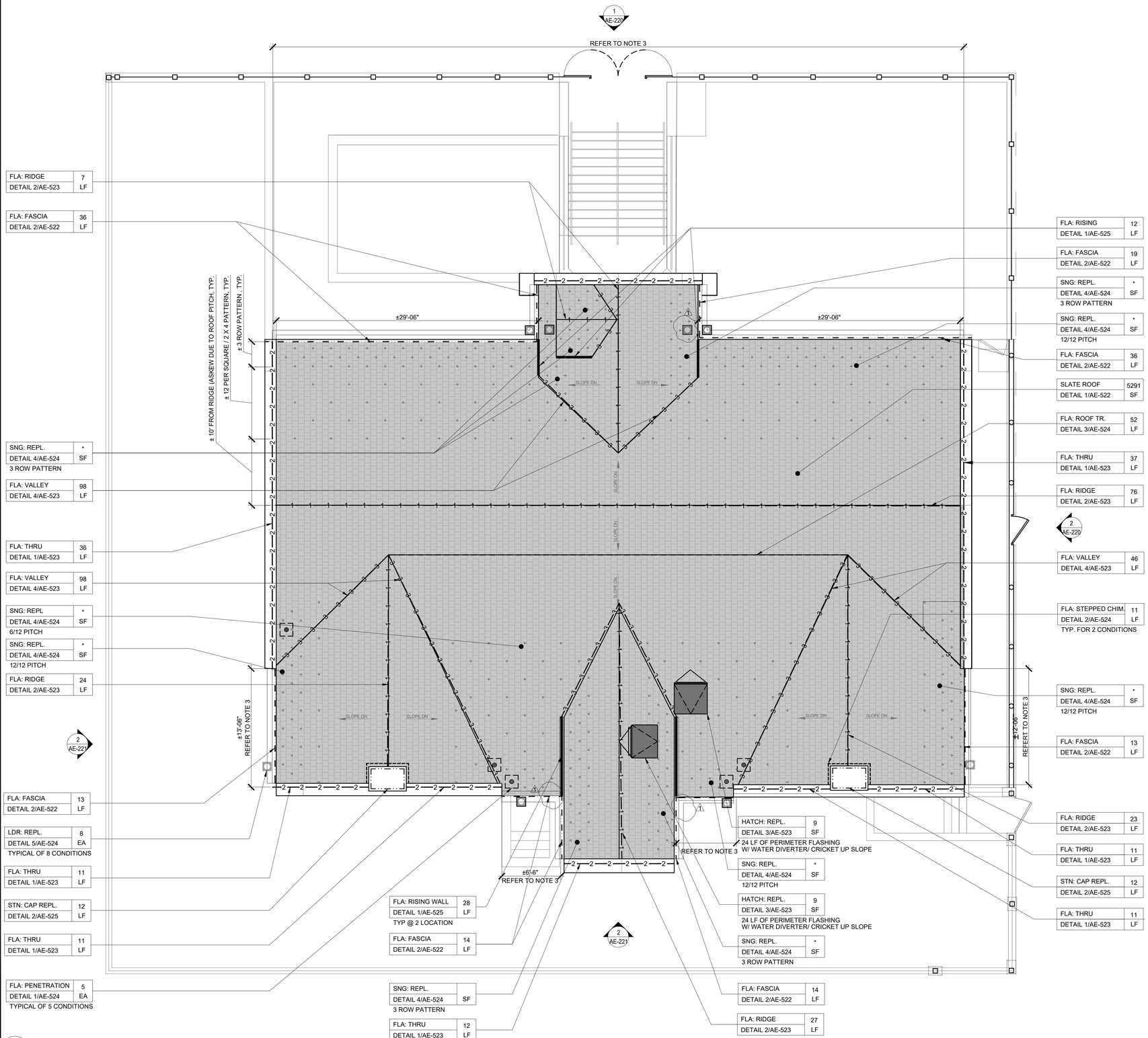
DRAWING TITLE:
EXT. RESTORATION SITE NOTES

SEAL & SIGNATURE



DATE: 03.11.2024
PROJECT NO: LBP21WIBR
DRAWN BY:
CHECKED BY:
DRAWING NUMBER:
AE-120.00
CAD FILE No: 3
OF 30

Y:\2023\23-044901_Building Envelope_Documents\02_Design Phase\00_MPP\CADD\A-120 SITE PLAN.dwg



1 AE-121 ROOF PLAN
Scale: 3/16" = 1'-0"

SCOPE OF WORK SYMBOL LEGEND				
ROOF RESTORE TYPE & SYMBOL		NUM. OF CONDITIONS	TOTAL	UNITS
SLATE: ROOF REPLACEMENT		-	5291	SF
SNOWGUARD: REPLACEMENT		-	4728 *	SF
FLASHING: RIDGE	1	-	171	LF
FLASHING: THRU-WALL	2	-	158	LF
FLASHING: VALLEY	3	-	237	LF
FLASHING: PENETRATION		-	5	LF
FLASHING: FASCIA		-	126	LF
FLASHING: STEPPED REPLACEMENT AT CHIMNEY		2	22	LF
LEADER: COPPER LEADER HEAD REPLACEMENT		-	8	EA
STONE: CHIMNEY CAP REPLACEMENT		1	28	LF
FLASHING: RISING WALL		-	28	LF
FLASHING: ROOF TRANSITION		-	53	LF
ROOF: HATCH REPLACEMENT		2	18	SF

* PROVIDED FOR CUMULATIVE QUANTITY ON ROOF FOR SNOWGUARD: REPLACEMENT

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
SLOPE DN	EX. ROOF PITCH
	ROOF HATCH REPLACE
	EX. CHIMNEY
	VENT STACK

ABBREVIATION LEGEND	
FLA: RIDGE :	FLASHING: RIDGE
FLA: FASCIA :	FLASHING: FASCIA
SNG: REPL. :	SNOWGUARD: REPLACEMENT
FLA: VALLEY :	FLASHING: VALLEY
LDR: REPL. :	LEADER: COPPER LEADERHEAD REPLACEMENT
STN: CAP REPL :	STONE CHIMNEY CAP REPLACEMENT
FLA: PENETRATION :	FLASHING: PENETRATION
FLA: RISING WALL :	FLASHING: RISING WALL
HATCH: REPL. :	ROOF HATCH: REPLACEMENT
FLA: THRU :	FLASHING: THRU WALL
FLA: STEPPED CHIM. :	FLASHING: REPLACEMENT AT STEPPED CHINEY
FLA: ROOF TRANISTION :	FLASHING: ROOF TRANSITION
SLATE: ROOF :	SLATE: ROOF REPLACEMENT

NOTES:

1. PLANS ARE SCHEMATIC IN NATURE, CONTRACTOR TO VERIFY ALL CONDITIONS IN FIELD.
2. SLOPE OF ROOF IS 1:1, VERIFY IN FIELD
3. REMOVE SHEATHING @ EAVE ±6'-0 LOCATIONS AT WASHINGTON IRVING ELEVATION, ±2 LOCATIONS AT REAR, ±1 LOCATION EACH AT REAR PITCHED ROOF, EAST & WEST ELEVATION (± 4' - 0" IN WIDTH & 6' -0" UP SLOPE FROM EAVE) TO FACILITATE ACCESS PRIOR TO INSULATION PLACEMENT. CONTRACTOR SHOULD NOT WALK DIRECTLY ON PLASTER AND LATH CEILING WHILE INSTALLING INSULATION - PROVIDE TEMPORARAY WALKING SURFACE AT FRAMING MEMBERS AS NEEDED, REMOVING AFTER COMPLETION OF WORK. TEMPORARILY SHORE ALL WALKING AREAS FROM BELOW DURING EXTENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FROM GRAPHICAL REPRESENTATION.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

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ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

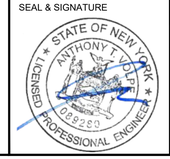
CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

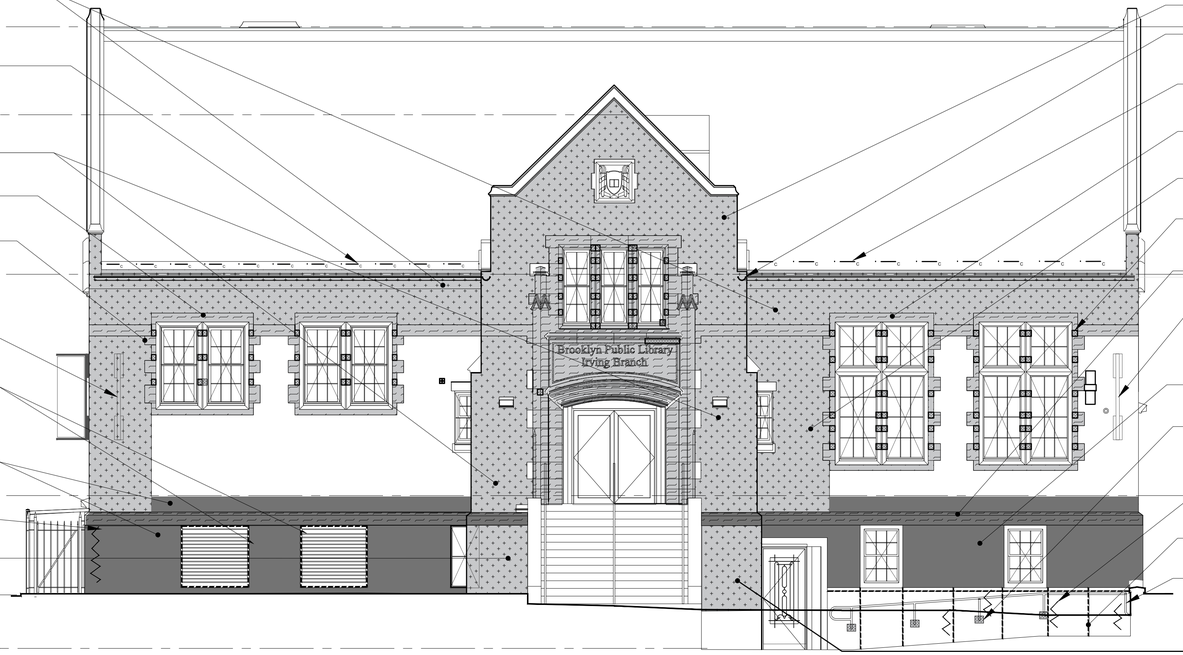
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
EXT. RESTORATION: ROOF

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	AE-121.00
CAD FILE No:	4
	OF 30



BRK: POINTING 216 / DETAIL 2/AE-520 SF

ROOF RIDGE

METAL: REMOVALS 28 / NOTE/DET 8/AE-520 LF

ROOF DORMER RIDGE

BRK: POINTING 109 / DETAIL 2/AE-520 SF

LSTN: POINTING 98 / NOTE/DET 7/AE-520 SF

BRK: POINTING 59 / DETAIL 2/AE-520 SF

EAVE/ GUTTER

SIGN INSTALL 1 / DETAIL 4/AE-525 EA

TO BE COORDINATED WITH BPL. REFER TO THIS DETAIL AND BPL EXTERIOR SIGNAGE STANDARDS FOR ANCHORAGE

SEALANT INSTALL 38 / DETAIL 1/AE-521 LF

REMOVE AND REPLACE LOUVERS. REFER TO MECHANICAL DRAWINGS TO COORDINATE WORK (TO BE FILED UNDER SEPARATE APPLICATION)

BRK: REFURBISH 124 / NOTE/DET 4/AE-521 SF

FIRST FLOOR

BRK: STITCH 5 / DETAIL 3/AE-520 SF

BRK: POINTING 25 / DETAIL 2/AE-520 SF

SIDEWALK

BASEMENT

BRK: POINTING 195 / DETAIL 2/AE-520 SF

FOR GUTTER REPLACEMENT, REFER TO FLASHING: FASCIA DETAIL

METAL: REMOVALS 28 / NOTE/DET 8/AE-520 LF

LSTN: POINTING 99 / NOTE/DET 7/AE-520 SF

BRK: POINTING 58 / DETAIL 2/AE-520 SF

LSTN: SPALL RE 1 / DETAIL 5/AE-520 SF

TYP. OF 106 CONDITIONS

LSTN: REFURBISH 63 / NOTE/DET 3/AE-521 SF

SIGN INSTALL 1 / DETAIL 4/AE-525 EA

TO BE COORDINATED WITH BPL. REFER TO THIS DETAIL AND BPL EXTERIOR SIGNAGE STANDARDS FOR ANCHORAGE

BRK: REFURBISH 110 / NOTE/DET 2/AE-521 SF

LSTN: SPALL RE 2 / DETAIL 5/AE-520 SF

TYP AT PREVIOUS RAILING ANCHORAGE POINTS

LSTN: CRACK 12 / DETAIL 6/AE-520 LF

TYP AT 4 LOCATIONS

SEALANT INSTALL 45 / DETAIL 1/AE-521 LF

TYP

EXISTING RAILING TO BE REMOVED AND REINSTALLED & COORDINATE REPAIR AND RESTORE WORK.

BRK: POINTING 28 / DETAIL 2/AE-520 SF

1 AE-220 NORTH ELEVATION

3/16" = 1'-0"

SCOPE OF WORK SYMBOL LEGEND				
FACADE RESTORE TYPE & SYMBOL		NUM. OF CONDITIONS	TOTAL	UNITS
BRICK: STITCH RESTORE		2	10	LF
BRICK: POINTING		9	1684	SF
LIMESTONE: POINTING		3	243	SF
LIMESTONE: SPALL RESTORE		157	161	SF
LIMESTONE: REFURBISH		2	123	SF
BRICK: CORNER RECONSTRUCTION		1	26	LF
BRICK: REFURBISH		3	530	SF
BRICK: INFILL		2	32	SF
BRICK: FIELD		1	5	SF
PENETRATION: CORE	PC	2	2	EA
SEALANT: INSTALLATION		9	83	LF
DOWNSPOUTS: COPPER DOWNSPOUTS REPLACEMENT		3	17	LF
METAL: EAVE PROTECTION RESTORATION		5	82	LF
LOUVER REPLACEMENT	LVR. REPL.	1	1	EA
LIMESTONE: CRACK		4	12	LF
SIGN: INSTALLATION		4	4	EA
STONE: LINTEL REPLACE		1	5.5	LF

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING ANTENNA TO REAMIN
	EXISTING CAMERA TO REMAIN
	EXISTING ALARM TO REMAIN
	EXISTING WINDOW GUARDS TO BE REMOVED AND DISCARDED. REFER TO LIMESTONE: REPAIR AND RESTORE CALLOUTS FOR SUBSEQUENT PATCHING.

NOTES:
1. FOR PENETRATION CORES AT EXISTING WALL, COORDINATE LOCATIONS WITH MECHANICAL DRAWINGS (RAILING WORK BY ARCHITECT).

ABBREVIATION LEGEND	
BRK: POINTING :	BRICK: POINTING
BRK: REFURBISH :	BRICK: REFURBISH
BRK: FIELD	BRICK: FIELD
BRK: STITCH	BRICK: STITCH RESTORE
BRK: INFILL :	BRICK: INFILL
BRK: CORNER :	BRICK: CORNER RECONSTRUCTION
LSTN: POINTING :	LIMESTONE: POINTING
LSTN: SPALL RE :	LIMESTONE: SPALL RESTORE
LSTN: REFURBISH :	LIMESTONE: REFURBISH
LSTN : CRACK :	LIMESTONE: CRACK
SEALANT REPLACE :	SEALANT: INSTALLATION
LVR: REPL. :	LOUVER: REPLACEMENT
DOWNSPOUT: REPL. :	DOWNSPOUT: COPPER DOWNSPOUT: REPLACEMENT
METAL: REMOVALS :	METAL: EAVE PROTECTION REMOVAL
PEN: CORE	PENETRATION: CORE
STONE: LINTEL RE. :	STONE: LINTEL REPLACEMENT
SIGN: INSTALL. :	SIGN: INSTALLATION

METAL REMOVAL & LIMESTONE REFURBISH NOTES:

1. REMOVE AND DISCARD METAL IN ITS ENTIRETY INCLUDING ALL ANCHOR. MATCH EXISTING ANCHOR HOLES AND STRUCTURAL REPAIR MORTAR. COLOR TO MATCH EXISTING BRICK TO REMAIN.
2. REFURBISH ALL LIMESTONE WITH PROSOCO SURE KLEAN 942 LIMESTONE & MARBLE CLEANER.
3. CONTRACTOR TO PROVIDE 3' X 4' MOCK UP IN A DISCRETE LOCATION FOR REVIEW.

MASONRY REFURBISH NOTES:

1. MASONRY SURFACES SHALL EVENLY REFURBISH OF INDICATED SOILING WITH NO EVIDENCE OF STREAKING OR BLEACHING OR UNNATURAL COLOR VARIATIONS.
2. COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS FOR APPLICATION INDICATED.
3. PROTECT GENERAL PUBLIC AND SURROUNDING AND ADJACENT SURFACES, STRUCTURES, PROPERTY, AUTOMOBILES, VEGETATION, AND ANY OTHER OBJECT THAT WOULD BE ADVERSELY AFFECTED FROM CONTACT WITH CHEMICAL REFURBISH AGENTS, RINSE WATER, OR WIND-CARRIED-CHEMICAL CLEANERS AND WATER.
4. VENTILATE IF NECESSARY TO PREVENT FUE BUILD UP. PROTECT ALL WINDOWS, AIR INTAKES AND EXTERIOR CONDITION VENTS FROM FUME PENETRATION DURING AND FOLLOWING APPLICATIONS AS NEEDED.
5. REPEAT REFURBISH PROCEDURERS IN AREAS NOT REFURBISH SATISFACTORILY OR WHERE UNIFORM APPEARANCE HAS NOT BEEN ACHIEVED AS DIRECT

BY ARCHITECT.

6. ALKALINE MASONRY CLEANER: HS (TWO STEP) *PROSOCO SYSTEM* BY PROSOCO INC. *CLEANER* -SURE REFURBISH 766 LIMESTONE AND MASONRY PREWASH NEUTRALIZER - SURE REFURBISH 766 LIMESTONE MASONRY AFTERWASH
7. CHEMICAL PAINT REMOVER: ALKALINE PAINT REMOVER (TWO STEP) BY PROSOCO INC. *REMOVER* - SURE KLEAN HEAVY DUTY PAINT STRIPPER *NEUTRALIZER* - SURE KLEAN LIMESTONE & MASONRY AFTERWASH.

DOB APPROVAL STAMP

ROOF RIDGE

METAL: REMOVALS 7 / NOTE/DET 8/AE-520 LF

ROOF DORMER RIDGE

ROOF DORMER RIDGE

FOR GUTTER REPLACEMENT, REFER TO FLASHING: FASCIA DETAIL

EAVE/ GUTTER

BRK: POINTING 45 / DETAIL 2/AE-520 SF

EAVE/ GUTTER

DOWNSPOUT REPL. 7 / DETAIL 5/AE-524 LF

1 LEADERBOX TOTAL

LSTN: POINTING 46 / NOTE/DET 7/AE-520 SF

BRK: CORNER 26 / DETAIL 4/AE-520 LF

BRK: REFURBISH 296 / NOTE/DET 4/AE-521 SF

FIRST FLOOR

BRK: STITCH 5 / DETAIL 3/AE-520 LF

TYP. OF 2 LOCATIONS

STONE LINTEL RE. 5.5 / DETAIL 2/AE-527 LF

BRK: POINTING 57 / DETAIL 2/AE-520 SF

REMOVE PARGE @BASE AND RE-POINT IN ENTIRETY

ELEVATOR SHAFT (BEYOND)

DASHED LINE INDICATES NEW SCREEN & PADS. REFER TO CIVIL DWGS FOR DETAILS.

2 AE-220 EAST ELEVATION

BRK: POINTING 892 / DETAIL 2/AE-520 SF

LVR: REPL. 1 / DETAIL 2/AE-521 EA

METAL: REMOVALS 19 / NOTE/DET 8/AE-520 LF

LSTN: SPALL RE 48 / DETAIL 5/AE-520 SF

TYP. OF 48 LOCATIONS

FOR GUTTER REPLACEMENT, REFER TO FLASHING: FASCIA DETAIL

DOWNSPOUT REPL. 10 / DETAIL 5/AE-524 LF

TYP @ 2 LOCATIONS 2 LEADERBOXES TOTAL

SIGN INSTALL 2 / DETAIL 4/AE-525 EA

TO BE COORDINATED WITH BPL. REFER TO THIS DETAIL AND BPL EXTERIOR SIGNAGE STANDARDS FOR ANCHORAGE

BRK: INFILL 32 / DETAIL 5/AE-521 SF

EXISTING LOUVER TO BE REMOVED AND DISCARDED. REFER TO MECHANICAL DRAWINGS TO COORDINATE. INFILL OF MASNORY OPENING

LSTN: REFURBISH 60 / NOTE/DET 3/AE-521 SF

NEW CONCRETE STAIR, GUARDRAIL, HANDRAIL AND MASONRY. REFER TO ARCHITECTURAL DWGS FOR DETAILS

BRK: FIELD 5 / DETAIL 1/AE-520 SF

SIDE WALK

PEN: CORE 2 / DETAIL 6/AE-521 EA

8" CORE, TYP. FOR TWO (2) THIS ELEVATION

3/16" = 1'-0"

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

EXT. RESTORATION: N & E FACADES

SEAL & SIGNATURE

STATE OF NEW YORK · ANTHONY T. VOLPE · 095253 · LICENSED PROFESSIONAL ENGINEER

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	AE-220.00
CAD FILE No:	5
	OF 30



1 AE-221 SOUTH ELEVATION



2 AE-221 WEST ELEVATION

SCOPE OF WORK SYMBOL LEGEND

FACADE RESTORE TYPE & SYMBOL	NUM. OF CONDITIONS	TOTAL	UNITS
BRICK: POINTING	8	267	SF
LIMESTONE: POINTING	2	142	SF
LIMESTONE: SPALL RESTORE	48	48	SF
LIMESTONE: REFURBISH	2	140	SF
BRICK: CORNER RECONSTRUCTION	2	23	LF
BRICK: REFURBISH	5	541	SF
BRICK: INFILL	2	13	SF
BRICK: FIELD	2	32	SF
PENETRATION: CORE	PC	4	EA
SEALANT: INSTALLATION	11	68	LF
DOWNSPOUTS: COPPER DOWNSPOUTS REPLACEMENT	7	37	LF
METAL: EAVE PROTECTION RESTORATION	5	42	LF
LOUVER REPLACEMENT	1	1	EA

LEGEND

SYMBOL	DESCRIPTION
	EXISTING WINDOW GUARDS TO BE REMOVED AND DISCARDED. REFER TO LIMESTONE: REPAIR AND RESTORE CALLOUTS FOR SUBSEQUENT PATCHING.

NOTES:

1. EXISTING DOOR AND EXISTING WINDOWS ON ALL ELEVATIONS TO REMAIN.
2. FOR PENETRATION CORES AT EXISTING WALL, COORDINATE LOCATIONS WITH MECHANICAL DRAWINGS (TO BE FILED UNDER A SEPARATE APPLICATION).

ABBREVIATION LEGEND

BRK: POINTING :	BRICK: POINTING
BRK: REFURBISH :	BRICK: REFURBISH
BRK: FIELD :	BRICK: FIELD
BRK: INFILL :	BRICK: INFILL
BRK: CORNER :	BRICK: CORNER RECONSTRUCTION
LSTN: POINTING :	LIMESTONE: POINTING
LSTN: SPALL RE :	LIMESTONE: SPALL RESTORE
LSTN: REFURBISH :	LIMESTONE: REFURBISH
SEALANT REPLACE :	SEALANT: INSTALLATION
LVR: REPL. :	LOUVER: REPLACEMENT
DOWNSPOUT: REPL. :	DOWNSPOUT: COPPER DOWNSPOUT: REPLACEMENT
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PEN: CORE	PENETRATION: CORE

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   PROSOCO SYSTEM BY PROSOCO INC.
   CLEANER -SURE REFURBISH 766 LIMESTONE AND MASONRY PREWASH
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DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

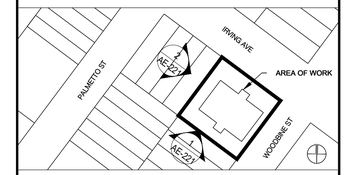
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

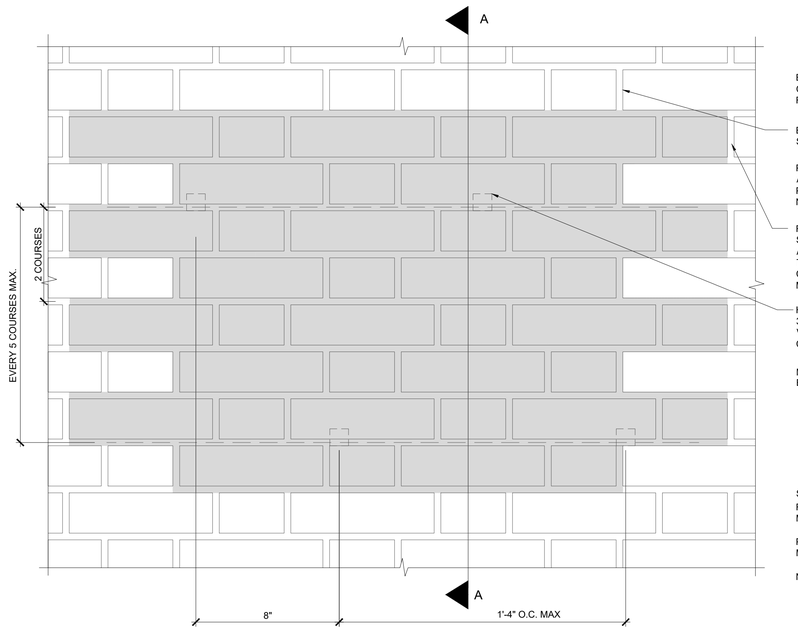
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
EXT. RESTORATION: S & W FACADES

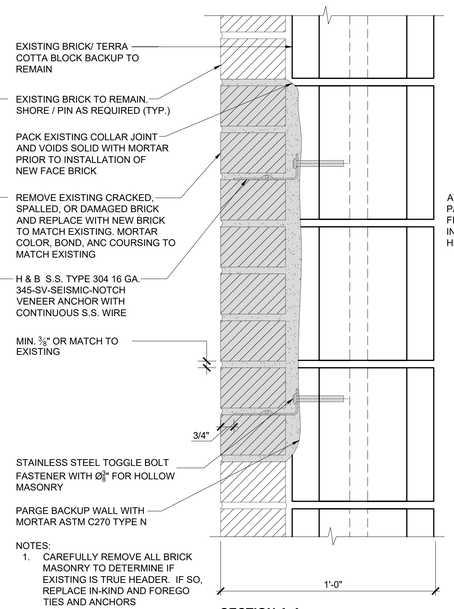
SEAL & SIGNATURE

STATE OF NEW YORK * ANTHONY T VOLPE * 069263 * LICENSED PROFESSIONAL ENGINEER

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	AE-221.00
CAD FILE No: 6	OF 30

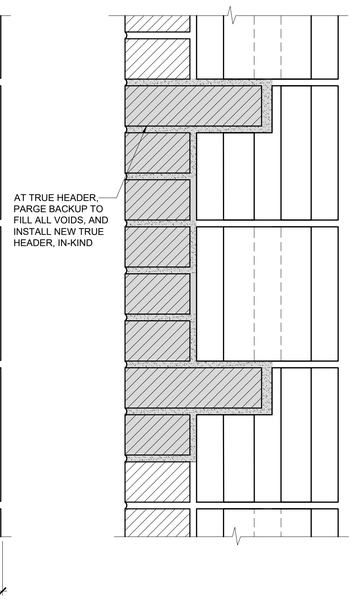


ELEVATION



NOTES:
1. CAREFULLY REMOVE ALL BRICK MASONRY TO DETERMINE IF EXISTING IS TRUE HEADER. IF SO, REPLACE IN-KIND AND FOREGO TIES AND ANCHORS
2. EXISTING BOND PATTERN IS FLEMISH, CONTRACTOR TO REPLACE IN KIND

SECTION A-A

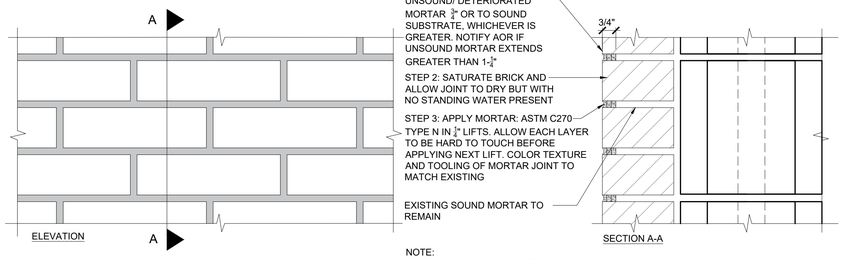


AT TRUE HEADER

1 AE-520 BRICK: FIELD REPLACEMENT

Scale: 3" = 1'-0"

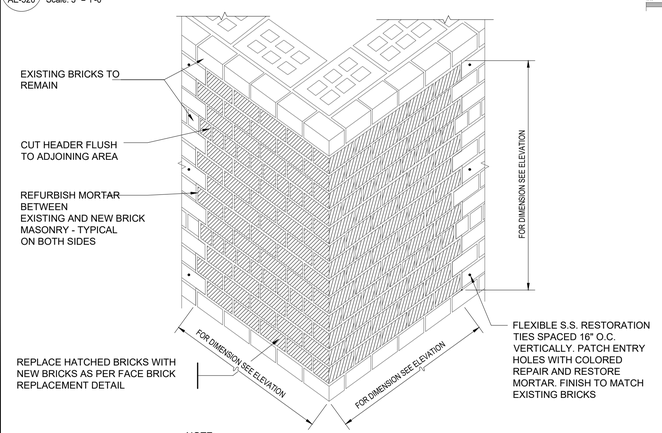
NOTE:
WHERE POINTING IS CALLED OUT @ WINDOWS, DOORS, & ANY OTHER OPENINGS AS WELL AS CHANGES IN PLANE, THE WORK IS TO EXTEND @ ALL RETURNS, RECESSES, ETC.



NOTE:
1. EXISTING BOND PATTERN IS FLEMISH CONTRACTOR TO REPOINT IN KIND

2 AE-520 BRICK: POINTING

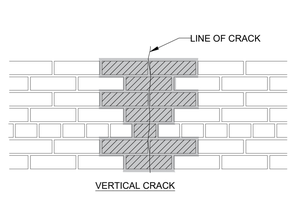
Scale: 3" = 1'-0"



NOTE:
1. ALL HEAD, BED AND COLLAR JOINTS TO BE FILLED SOLID WITH MORTAR.
2. EXISTING BOND PATTERN IS FLEMISH, CONTRACTOR TO REPLACE IN KIND.

3 AE-520 BRICK: STITCH REPAIR AND RESTORE

Scale: 1" = 1'-0"



NOTE:
AT HORIZONTAL CRACK, THE REPLACEMENT OF BRICKS WILL BE PERFORMED IN SECTIONS OF 3'-0" EACH UNLESS AN ENGINEERED SHORING SCHEME IS UTILIZED AND REVIEWED BY THE ENGINEER OF RECORD.

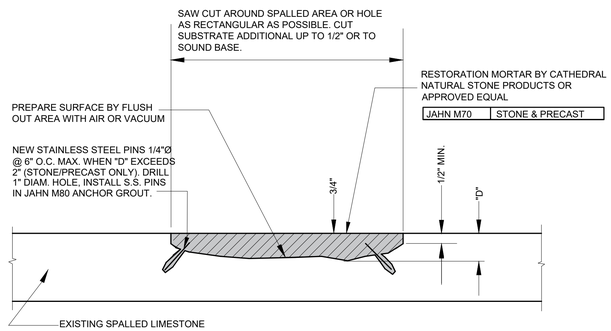
NOTES:
1. REPLACE HATCHED BRICKS WITH NEW BRICKS.
2. DO NOT REPLACE HEADER BRICKS IF NOT CRACKED.
3. REFURBISH MORTAR OFF EXISTING BRICKS PRIOR TO INSTALLATION OF NEW BRICKS.
4. ALL HEAD, BED AND COLLAR JOINTS TO BE FILLED SOLID WITH MORTAR.
5. EXISTING BOND PATTERN IS FLEMISH, CONTRACTOR TO REPLACE INKIND.

4 AE-520 BRICK: CORNER RECONSTRUCTION

Scale: 1" = 1'-0"

5 AE-520 LIMESTONE: SPALL REPAIR AND RESTORE METHOD FOR LIMESTONE DETAIL

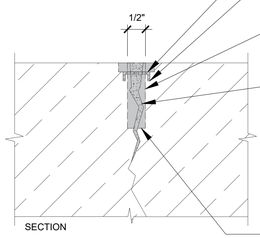
Scale: 1" = 1'-0"



NOTES:
1) REPAIR AND RESTORE TO MATCH EXISTING STONE IN COLOR, SHAPE AND TEXTURE.
2) APPLY THE MASONRY REPAIR AND RESTORE MORTAR USING A TROWEL TO A MAXIMUM THICKNESS OF 3".
3) BUILD UP PATCHING MATERIAL SLIGHTLY ABOVE ADJACENT MASONRY SURFACE BEFORE STRIKING FLUSH.
4) FOLLOW REPAIR AND RESTORE MORTAR MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

6 AE-520 LIMESTONE: CRACK REPAIR AND RESTORE DETAIL

Scale: 6" = 1'-0"



NOTE 1:
FOR LIMESTONE USE: JAHN M70
FOR CONCRETE & PRECAST USE: JAHN M90

NOTE 2:
FOR CONCRETE & HARD STONE USE: JAHN M31 FOR BRICK & SOFT STONE USE: JAHN M32

METAL REMOVAL NOTES:

1. REMOVE AND DISCARD METAL IN ITS ENTIRETY INCLUDING ALL ANCHOR. MATCH EXISTING ANCHOR HOLES AND STRUCTURAL REPAIR AND RESTORE MORTAR. COLOR TO MATCH EXISTING BRICK TO REMAIN.

8 AE-520 METAL: REMOVAL

Scale: NTS

NOTES:

1. REFER TO BRICK POINTING DETAIL 2/ A500 THIS SHEET FOR TYPICAL REPAIR AND RESTORE PROCEDURES, WITH VARIATIONS NOTED BELOW:
   A. SATURATE STONE, ALLOWING SEVERAL HOURS OF DRYING TIME FOR UNITS TO DRY AT SURFACE OF STONE AND JOINT.

7 AE-520 LIMESTONE: POINTING

Scale: NTS

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
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MANAGING AGENCY
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LANDSCAPE ARCHITECT:
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KEY PLAN:



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1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

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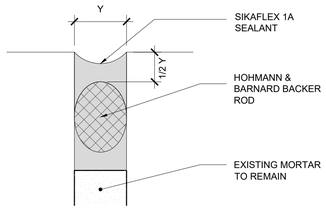
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MASONRY RESTORATION DETAILS - 1

SEAL & SIGNATURE

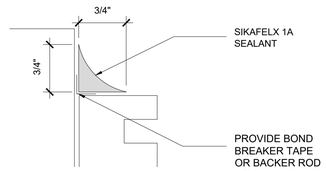


DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	AE-520.00
CAD FILE No:	7
	OF 30

Y:\2023\23-044900\1_Building Envelope_Documents\02_Design Phase\00_WIP\CAD\DA-520 - MASONRY DETAILS.dwg



EXPANSION JOINT



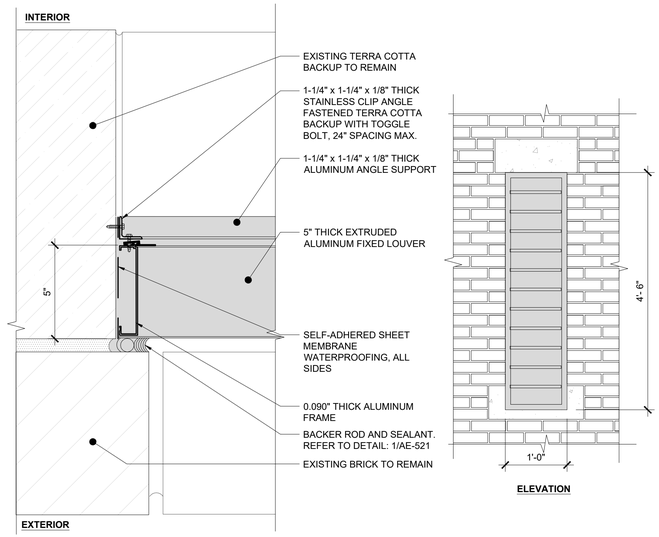
COVE JOINT

NOTES:

1. EXPANSION JOINT NOT TO EXCEED 1".
2. PRIME SURFACES AS REQUIRED BY MANUFACTURER. REMOVE EXCESS PRIMER.
3. ALL SURFACES TO BE REFURBISH IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS PRIOR TO INSTALLATION OF SEALANT AND BACKER ROD.

1 AE-521 SEALANT: REPLACEMENT

Scale: 3" = 1'-0"



PLAN SECTION @ JAMB

ELEVATION

NOTES:

1. PROVIDE TUBE WEEPS AT BOTTOM OF INSTALL TO ALLOW FOR DRAINAGE
2. EXISTING BOND PATTERN IS FLEMISH CONTRACTOR TO REPLACE IN KIND

2 AE-521 LOUVER: REPLACEMENT

Scale: N.T.S

LIMESTONE REFURBISH NOTES:

1. REFURBISH ALL LIMESTONE WITH PROSOCO SURE KLEAN 942 LIMESTONE & MARBLE REFURBISH..
2. CONTRACTOR TO PROVIDE 3' X 4' MOCK UP IN A DISCRETE LOCATION FOR REVIEW.

3 AE-521 LIMESTONE: REFURBISH

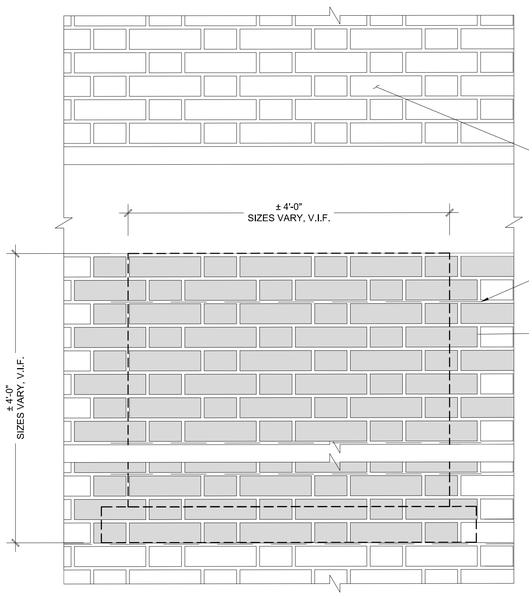
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MASONRY REFURBISH NOTES:

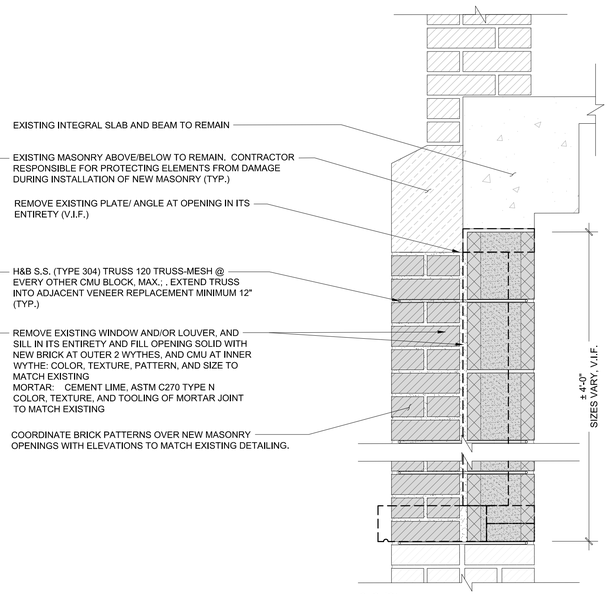
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2. COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS FOR APPLICATION INDICATED.
3. PROTECT GENERAL PUBLIC AND SURROUNDING AND ADJACENT SURFACES, STRUCTURES, PROPERTY, AUTOMOBILES, VEGETATION, AND ANY OTHER OBJECT THAT WOULD BE ADVERSELY AFFECTED FROM CONTACT WITH CHEMICAL REFURBISH AGENTS, RINSE WATER, OR WIND-CARRIED-CHEMICAL CLEANERS AND WATER.
4. VENTILATE IF NECESSARY TO PREVENT FU,E BUILD UP. PROTECT ALL WINDOWS, AIR INTAKES AND EXTERIOR CONDITION VENTS FROM FUME PENETRATION DURING AND FOLLOWING APPLICATIONS AS NEEDED.
5. REPEAT REFURBISH PROCEDURERS IN AREAS NOT REFURBISH SATISFACTORILY OR WHERE UNIFORM APPEARANCE HAS NOT BEEN ACHIEVED AS DIRECT BY ARCHITECT.
6. ALKALINE MASONRY REFURBISH: HS (TWO STEP)
   PROSOCO SYSTEM BY PROSOCO INC.
   REFURBISH -SURE REFURBISH 766 LIMESTONE AND MASONRY PREWASH
   NEUTRALIZER - SURE REFURBISH 766 LIMESTONE MASONRY AFTERWASH
7. CHEMICAL PAINT REMOVER
   ALKALINE PAINT REMOVER (TWO STEP) BY PROSOCO INC.
   REMOVER - SURE KLEAN HEAVY DUTY PAINT STRIPPER
   NEUTRALIZER - SURE KLEAN LIMESTONE & MASONRY AFTERWASH

4 AE-521 MASONRY: REFURBISH

Scale: 3" = 1'-0"



ELEVATION



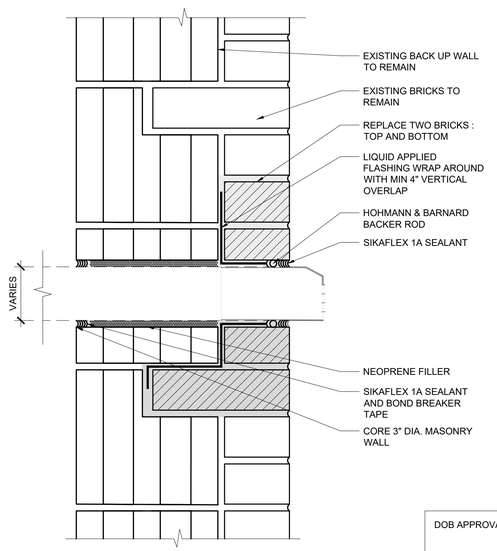
SECTION

NOTE:

1. INTERIOR FINISH NOT SHOWN FOR CLARITY. COORDINATE REPLACEMENT OF INTERIOR FINISHES WITH ARCHITECTURAL SET.
2. EXISTING BOND PATTERN IS FLEMISH CONTRACTOR TO REPLACE IN KIND.

5 AE-521 BRICK: INFILL

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



NOTES:

1. PROVIDE FULL DEPTH CORE AT WALL AS SHOWN ON ELEVATIONS
2. COORDINATE SIZE & LOCATION WITH MECHANICAL (UNDER SEPARATE FILING)
3. EXISTING BOND PATTERN IS FLEMISH CONTRACTOR TO REPLACE IN KIND

6 AE-521 PENETRATION: CORE

Scale: 3" = 1'-0"

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ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

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STRUCTURAL ENGINEERS :
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ACOUSTICS/SECURITY/TELECOM:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

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KEY PLAN:



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FOR THE:
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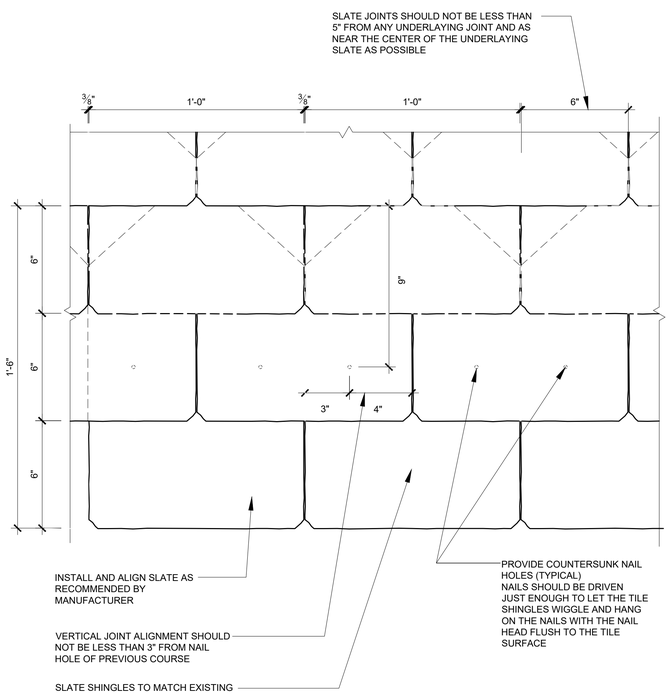
MASONRY RESTORATION DETAILS - 2

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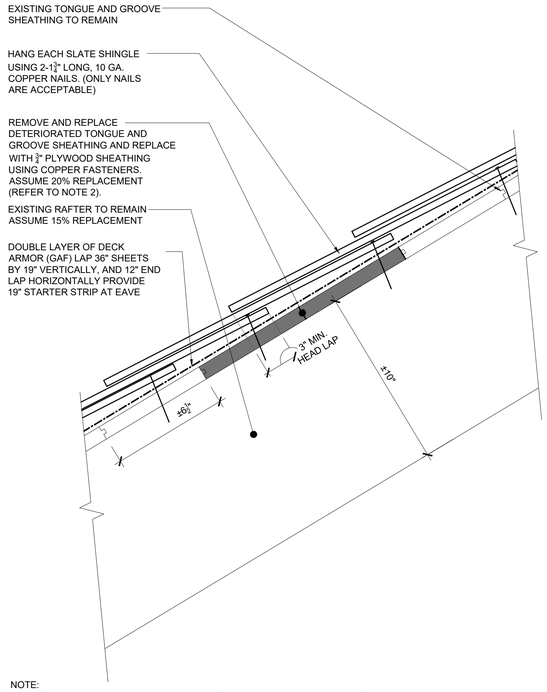


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DRAWING NUMBER:	AE-521.00
CAD FILE No: 8	OF 30

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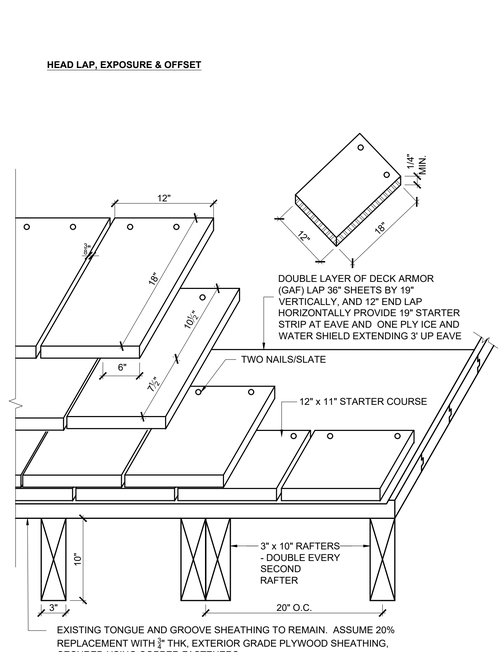


HEAD LAP, EXPOSURE & OFFSET



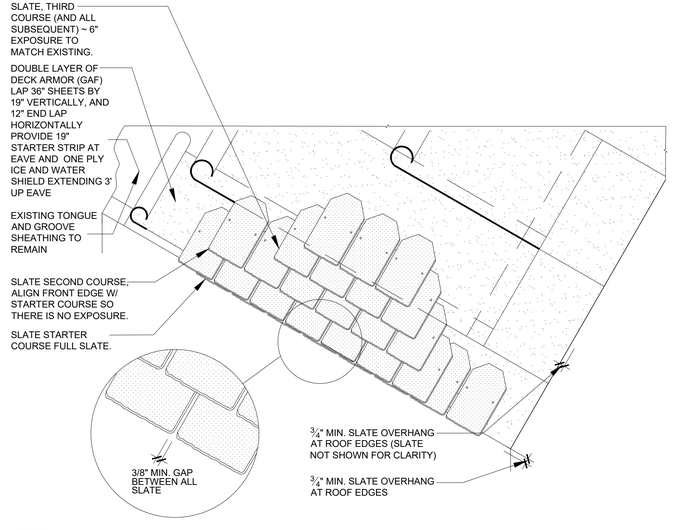
NOTE:
1. ATTIC INSULATION (NOT SHOWN THIS DETAIL) TO BE INSTALLED BETWEEN & ABOVE ALL CEILING JOISTS, R-53 MINIMUM
2. ASSUMED REPLACEMENT QUANTITY TO BE USED FOR REMOVAL TO INSTALL INSULATION. REFER TO AE-121 NOTES 3 FOR MORE INFORMATION.

SHINGLE FIELD DETAIL



NOTES:
1. CANT STRIP AND FLASHING IS NOT SHOWN HERE FOR CLARITY.
2. FOLLOW THE SAME LAYOUT OF THE SLATE AS SHOWN, DO NOT ALTER WITHOUT WRITTEN PERMISSION OF THE AOR.
3. PROVIDE 3" HEAD LAP FOR SLATES.
4. HANG SLATES USING COPPER NAILS ONLY.

HEAD LAP, EXPOSURE & OFFSET DIAGRAM



NOTES:
1. A 3/8" MIN. GAP IS NEEDED BETWEEN SLATE TO SLATE AS WELL SLATE TO WALLS AND SLATE TO PENETRATION.
2. PROVIDE 3/4" OVERHANG FOR SLATES AT ALL ROOF EDGES AS SHOWN.

SLATE ROOF: STARTER COURSE DIAGRAM

NOTE:

1. PROVIDE ONE PLY ICE AND WATER SHIELD (MIN. 3' @ LOW POINT, HIGH POINT, VALLEY RIDGE, RISING WALL AND AT PERIMETER OF ALL THROUGH ROOF PENETRATION) AND DOUBLE LAYER OF DECK ARMOR (GAF) AS UNDERLAYMENT.
2. INSULATION SHOWN IN DETAIL 2/AE-521 (MIN R-53) TO BE PROVIDED @EXTENT OF CEILING JOIST SYSTEM ±3920 SF

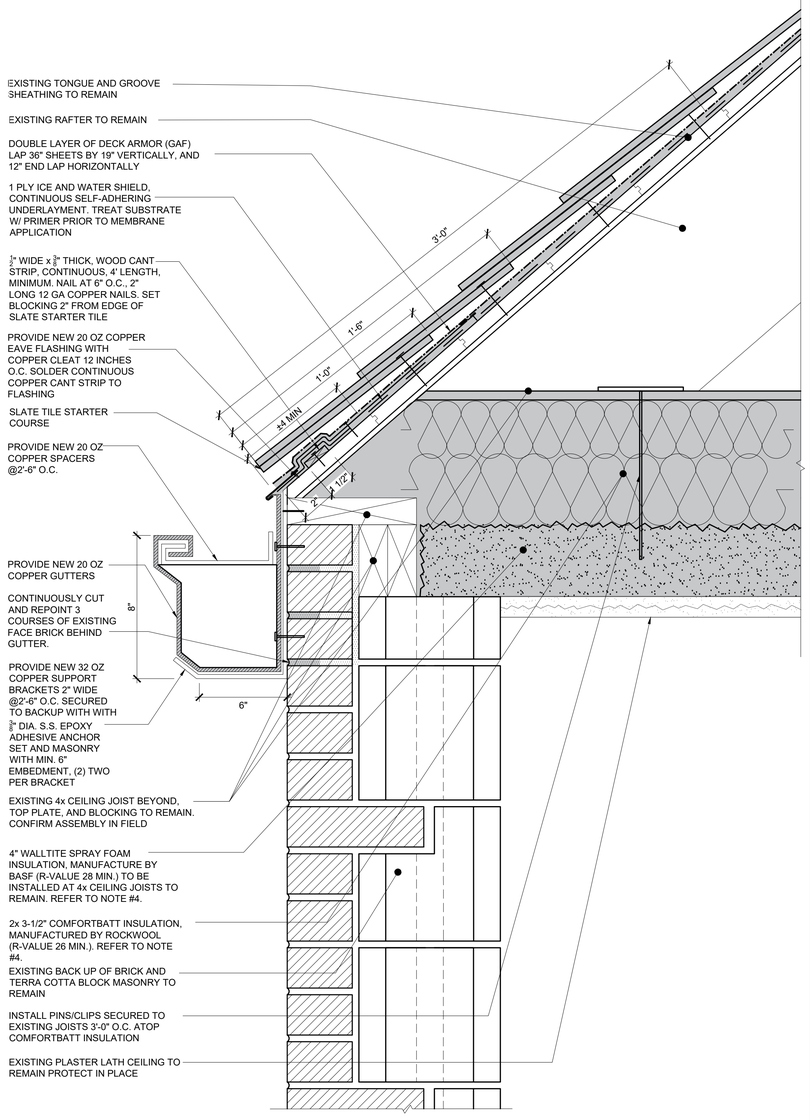
1 AE-522 SLATE: ROOF REPLACEMENT
Scale: 3" = 1'-0"



PHOTO 01 - ATTIC SPACE ABOVE CEILING, BELOW PITCHED ROOF.



PHOTO 02 - ATTIC SPACE ABOVE CEILING, BELOW PITCHED ROOF.



NOTE:

1. REMOVE AND DISCARD EXISTING GUTTER AND ALL ACCESORIES IN ITS ENTIRETY.
2. GC TO PROVIDE SHOP DRAWINGS FOR GUTTER FABRICATION.
3. GUTTERS TO BE SLOPED TO DOWNSPOUT.
4. REFER TO NOTE DETAIL 1/AE-522 THIS SHEET FOR EXTENT OF INSULATION INSTALLATION.

2 AE-522 FLASHING: FASCIA
Scale: 3" = 1'-0"

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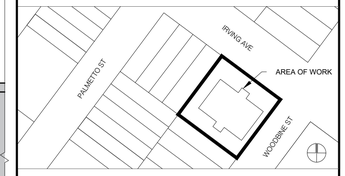
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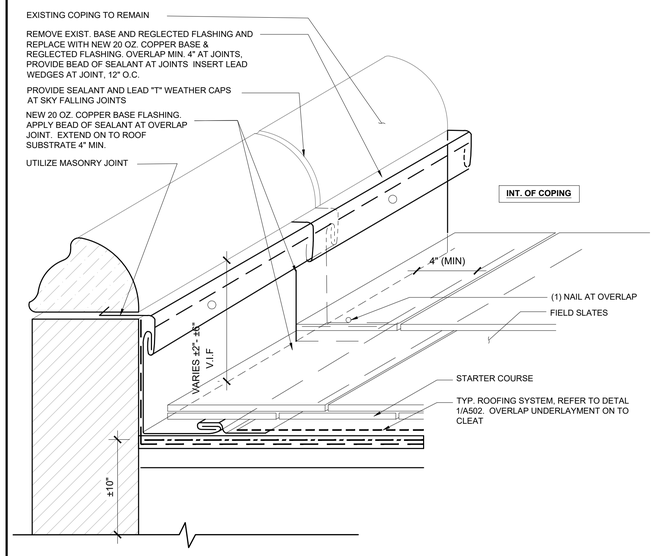
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ROOF & FLASHING DETAILS

SEAL & SIGNATURE



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DRAWING NUMBER:	AE-522.00
CAD FILE No:	9
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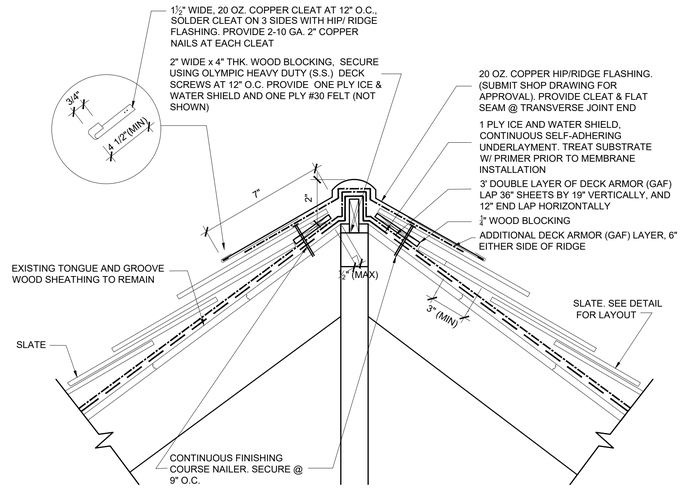


NOTE:

1. PROVIDE HEMMED FINISHED EDGE AT ALL METAL/COPPER TERMINATIONS

1 AE-523 FLASHING: THRU-WALL

Scale: NTS

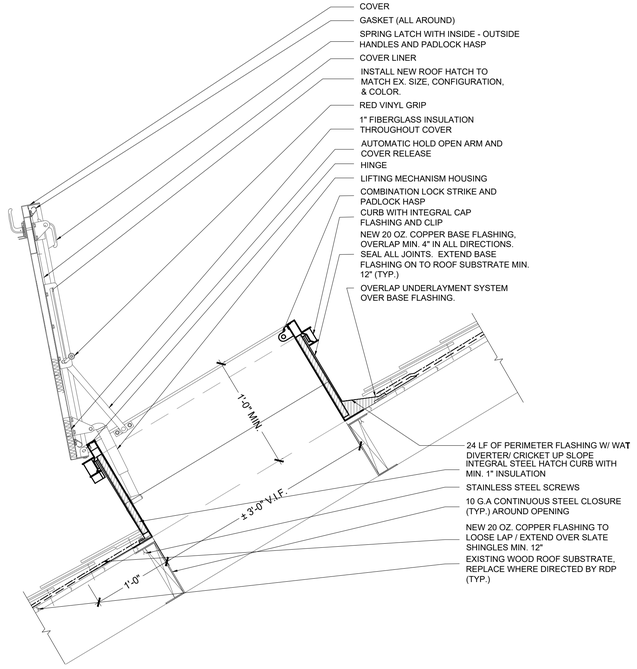


NOTES:

1. CONTRACTOR TO VERIFY ALL CONDITIONS IN FIELD.
2. SLOPE OF ROOF IS 1:1, VERIFY IN FIELD
3. REMOVE SHEATING @ EAVE ±6'-0 LOCATIONS AT WASHINGTON IRVING ELEVATION, ±2 LOCATIONS AT REAR ± 1 LOCATION EACH AT REAR PITCHED ROOF, EAST & WEST ELEVATION - (± 4' - 0" IN WIDTH & 6' -0" UP SLOPE FROM EAVE) TO FACILITATE ACCESS PRIOR TO INSTALLATION PLACEMENT. CONTRACTOR SHOULD NOT WALK DIRECTLY ON PLASTER AND LATH CEILING WHILE INSTALLING INSULATION - PROVIDE TEMPORARAY WALKING SURFACE AT FRAMING MEMBERS AS NEEDED, REMOVING AFTER COMPLETION OF WORK. TEMPORARILY SHORE ALL WALKING AREAS FROM BELOW DURING EXTENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FROM GRAPHICAL REPRESENTATION.

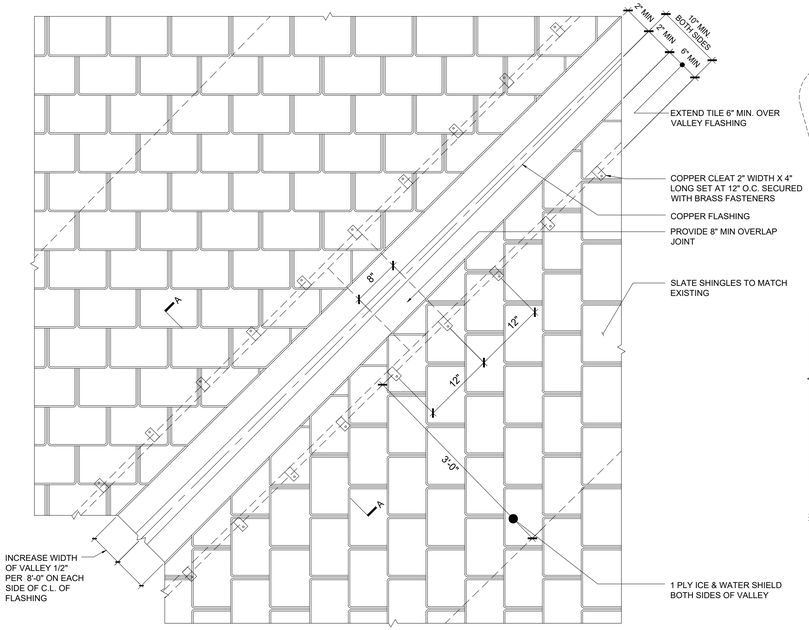
2 AE-523 FLASHING: RIDGE

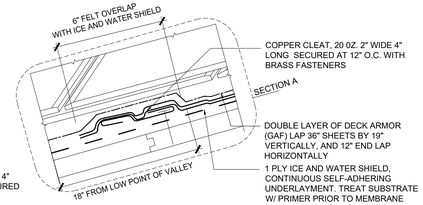
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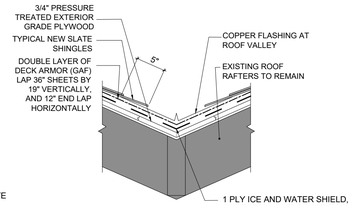


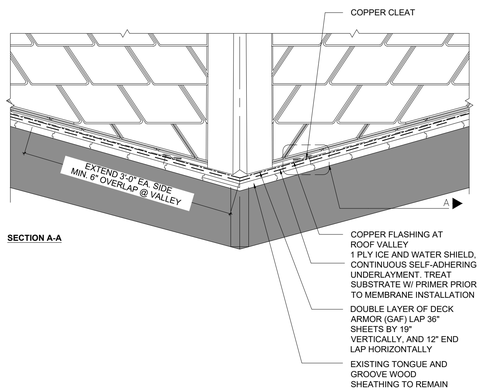
3 AE-523 ROOF: HATCH REPLACEMENT

Scale: 3" = 1'-0"









SECTION A-A

4 AE-523 FLASHING: VALLEY

Scale: 1" = 1'-0"



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MANAGING AGENCY
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ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

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Department of Design and Construction

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WASHINGTON IRVING BRANCH LIBRARY RENOVATION
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FOR THE:
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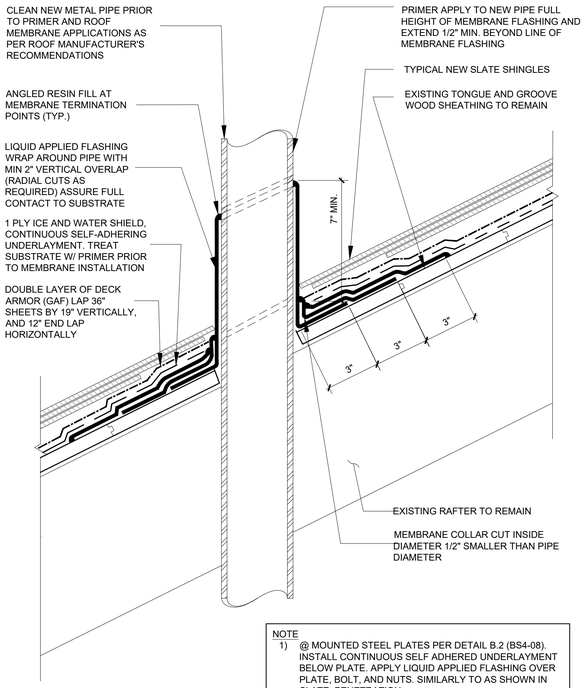
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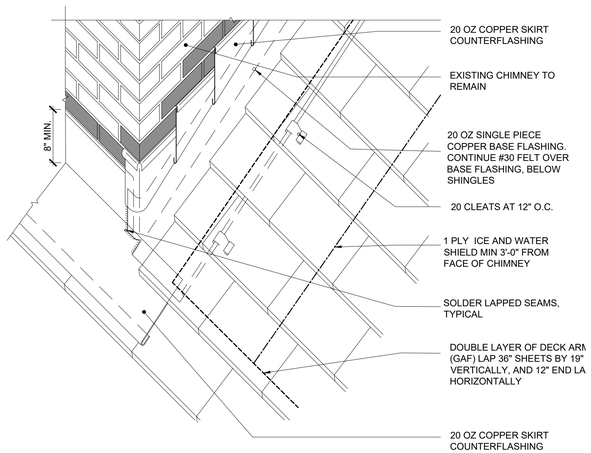
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NOTE
1) @ MOUNTED STEEL PLATES PER DETAIL B.2 (BS4-08). INSTALL CONTINUOUS SELF ADHERED UNDERLAYMENT BELOW PLATE. APPLY LIQUID APPLIED FLASHING OVER PLATE, BOLT, AND NUTS. SIMILARLY TO AS SHOWN IN SLATE: PENETRATION

1 FLASHING: PENETRATION
AE-524 Scale: 3" = 1'-0"

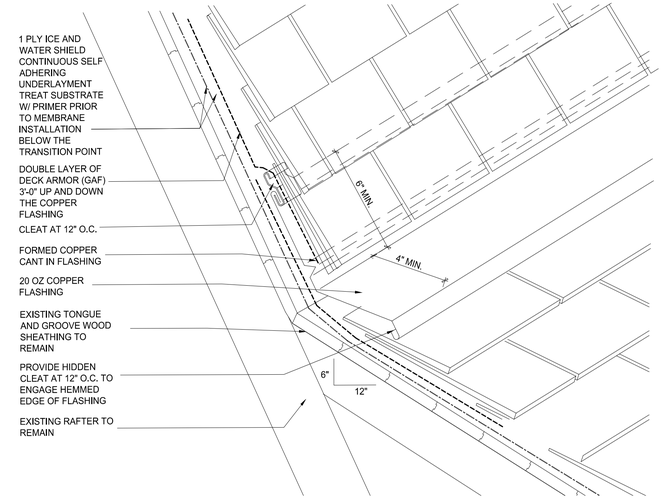
in. 1 2 4 6 9 3" = 1'-0"



NOTE:
1. PROVIDE ICE AND WATER SHIELD BELOW METAL FLASHING, TURN UP FACE OF CHIMNEY MINIMUM OF 6". PROVIDE 2ND PLY ICE AND WATER SHIELD AT "VALLEY CONDITION. 3' OFFSET FROM OF CHIMNEY ALONG STEPPED AREA.
2. AT COUNTER FLASHING, REMOVE ONE (1) COURSE OF MASONRY ABOVE TO ALL ON FOR INSTALLATION OF FLASHING. REPLACE BRICK MORTAR IN KIND.

2 FLASHING: REPLACEMENT AT STEPPED CHIMNEY
AE-524 Scale: 1-1/2"" = 1'-0"

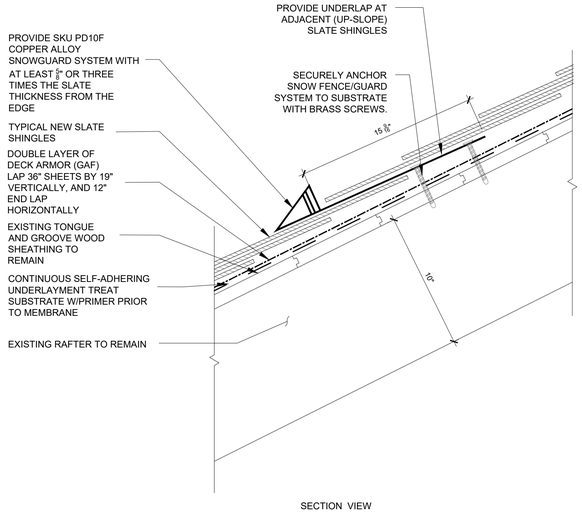
in. 1/4 1/2 1 1 1/2 1-1/2" = 1'-0"



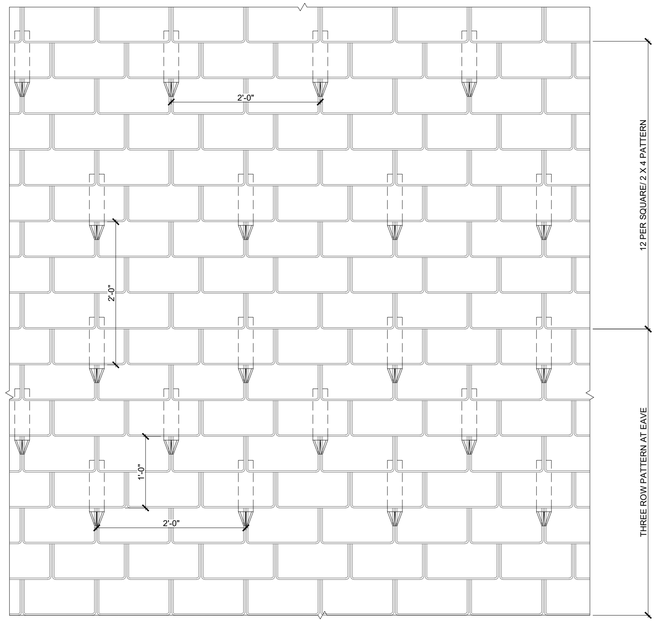
3 FLASHING: ROOF TRANSITION
AE-524 Scale: 1-1/2"" = 1'-0"

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

NOTE:
1. CONTRACTOR TO SCAN SLAB WITH GPR AND MARK OUT ALL REBAR IN ANCHORAGE VICINITY. ANCHORS TO BE INSTALLED MIN. 2" CLEAR OF REBAR.
2. REFER TO ALPINE SNOWGUARDS CU SUBMITTAL DOCUMENT SET SHEET. INSTALLATION OF BE COMPLETE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS AND INSTALLATION INSTRUCTION.



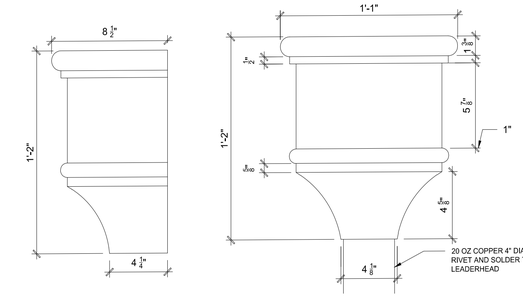
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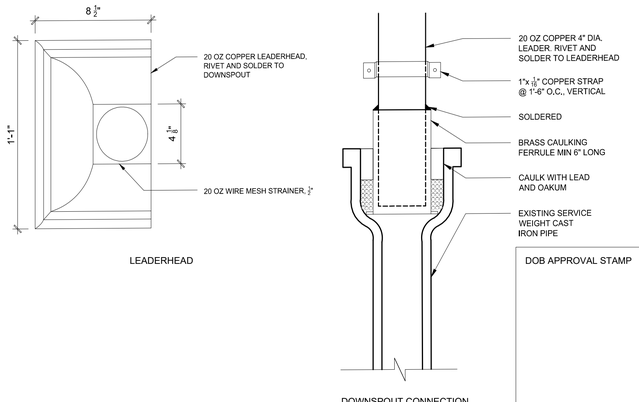


PLAN VIEW

4 SNOWGUARD: REPLACEMENT
AE-524 Scale: 1" = 1'-0"

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





LEADERHEAD

DOWNSPOUT CONNECTION

5 LEADER: COPPER LEADERHEAD REPLACEMENT
AE-524 Scale: 1" = 1'-0"

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

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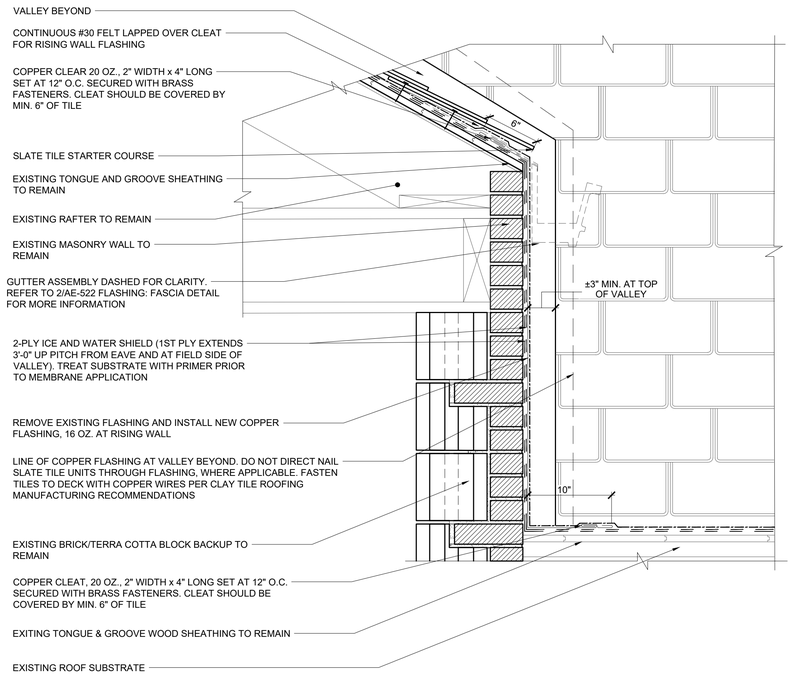
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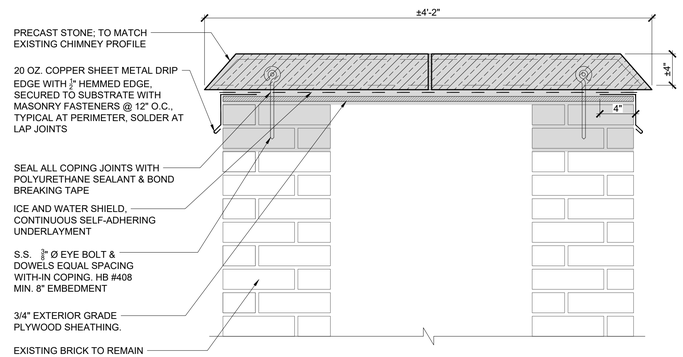
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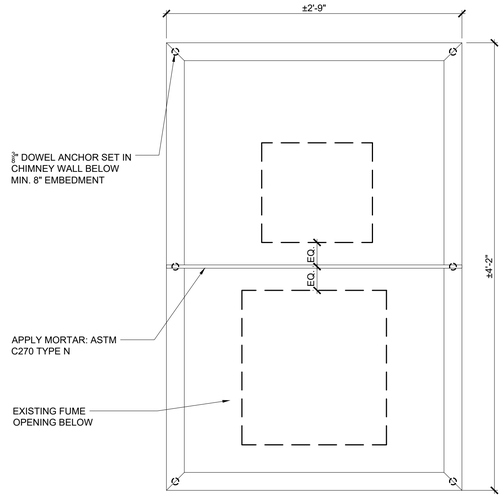
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DRAWING NUMBER:	AE-524.00
CAD FILE No:	10
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SECTION



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10 GRAND army PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

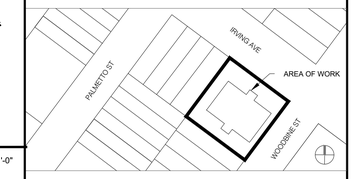
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

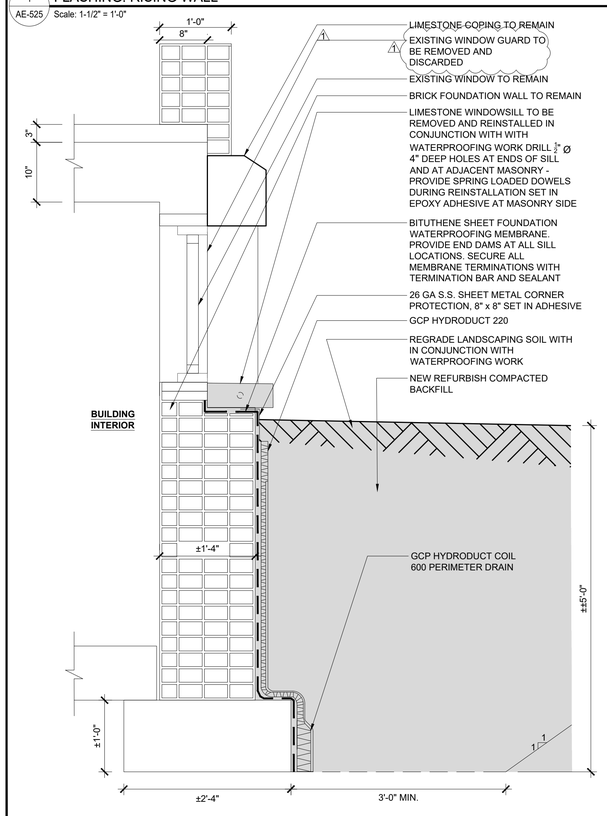
KEY PLAN:



NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

1 FLASHING: RISING WALL

AE-525 Scale: 1-1/2" = 1'-0"

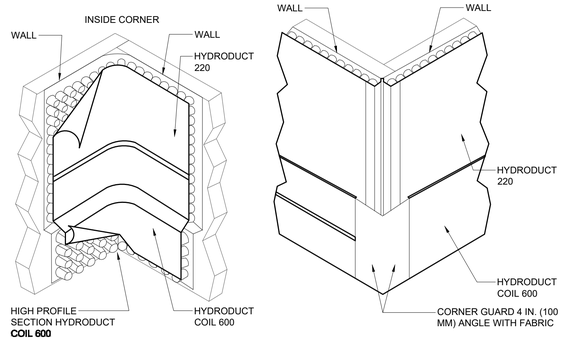


TYP. SECTION @ FOUNDATION WALL

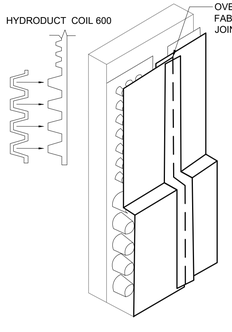
2 STONE; CHIMNEY CAP REPLACEMENT

AE-525 Scale: 1-1/2" = 1'-0"

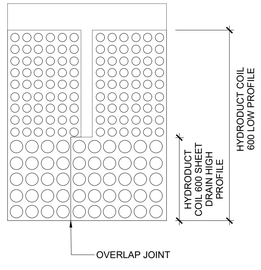
1-1/2" = 1'-0"

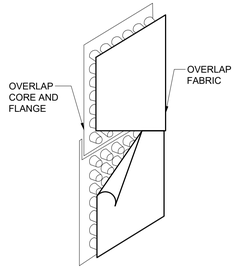


CORNER OVERLAP DIAGRAM



HORIZONTAL OVERLAP DIAGRAM





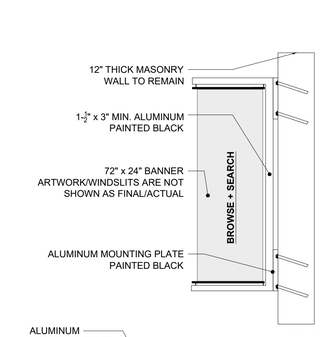
VERTICAL OVERLAP DIAGRAM

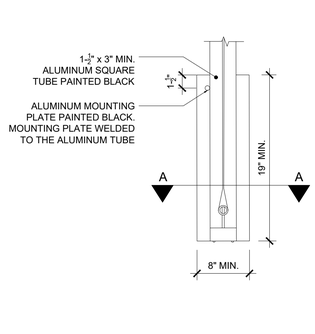
NOTES:
1. FOUNDATION WATERPROOFING INCLUDES FLASHING AT WINDOWSILLS/LOUVERS & DOOR SADDLES AS FOLLOWS:
   1.1. WINDOWSILLS/LOUVERS 11 EA @3 LF - 33 LF TOTAL
   1.2. DOOR SADDLES 2 EA @3LF - 6 LF TOTAL
2. AT MASONRY RISING WALL (NOT SILL LOCATIONS) REPAIR AREAS:
   2.1. REMOVE & REPLACE MASONRY MINIMUM OF FOUR (4) COURSES ABOVE ADJACANT GRADE TO ALLOW FLASHING MEMBRANE INSTALLATION. REFER TO DETAIL 01/AE-520 FOR BRICK INSTALLATION

3 FOUNDATION: WATERPROOFING

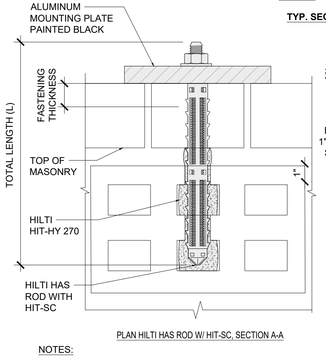
AE-525 Scale: 1" = 1'-0"

1" = 1'-0"

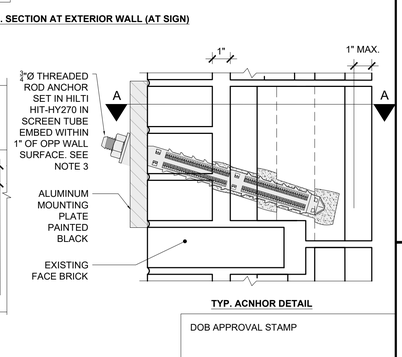




TYP. SECTION AT EXTERIOR WALL (AT SIGN)



PLAN HILTI HAS ROD W/ HIT-SC, SECTION A-A



TYP. ACNHOR DETAIL

NOTES:
1. SIGN INCLUDING BANNER, ALUMINUM TUBE FRAME, MOUNTING PLATES, AND ALL OTHER SIGN COMPONENTS TO BE DESIGNED BY THE FABRICATORS LICENSED ENGINEER IN THE STATE OF NEW YORK, COORDINATE WITH SIGNAGE CONSULTANTS/DESIGNER. PROVIDE SHOP DRAWING & CALCULATIONS SHOWING CONFORMANCE TO NYC BC LOADING REQUIREMENTS.
2. THIS DETAIL WAS SOURCED FROM A BPL/DDC DOCUMENT FOR REFERENCE.
3. A MINIMUM OF FOUR (4) ANCHORS WILL BE TESTED IN THE FIELD AND TESTING OF ANCHORS WILL BE WITNESSED BY A QUALIFIED SPECIAL INSPECTION AGENCY.

4 SIGN: INSTALLATION

AE-525 Scale: NTS

DOB APPROVAL STAMP

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

FLASHING AND SITE DETAILS

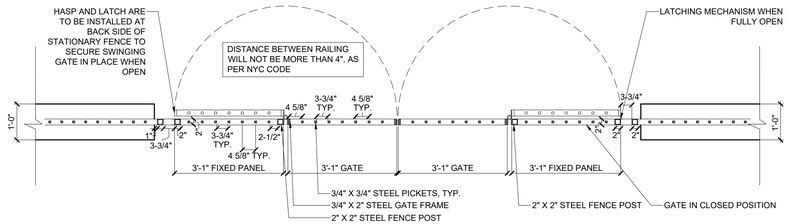
SEAL & SIGNATURE

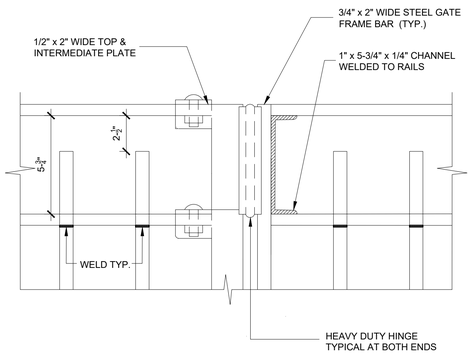


DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	AE-525.00
CAD FILE No:	12
	OF 30

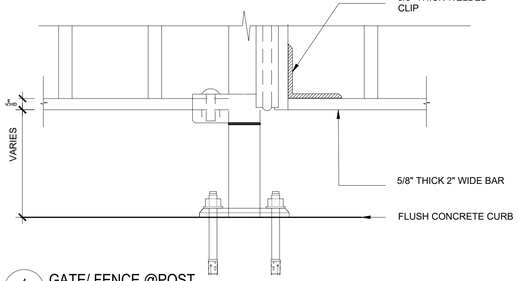
NOTES:
1. REMOVE EXISTING 6'-0" FENCING AND INFILL AS INDICATED ON THE SITE PLAN, AND TEMPORARILY STORE DURING FOUNDATION WATERPROOFING WORK.
2. REMOVE AND DISCARD EXISTING FENCE FOOTING. PROVIDE NEW FOOTING UPON COMPLETION OF WATERPROOFING WORK. REFER TO DETAIL 1/ AE-526 FOR INFORMATION RELATED TO CURB RECONSTRUCTION.
3. REFURBISH EXISTING INFILL PANELS FOR REINSTALLATION. SCRAPE, PREPARE, AND COAT PRIOR TO REINSTALLATION.
4. PROVIDE NEW 4" X 4" HOLLOW POSTS WTH ATTACHED BASE PLATES MATCHING EXISTING IN SIZE, SHAPE, PROFILE, MATERIAL
5. REINSTALL FENCE, AT SAME LOCATION; PROVIDE NEW ATTACHMENT HARDWARE THROUGHOUT.
6. COORDINATE FINISH PAVING INSTALLATION - REFER TO CIVIL DRAWINGS (FILED UNDER SEPARATE APPLICATION).
7. REINSTALL OUTRIGGERS NEW POST/ FACADE UPON COMPLETION OF FENCING INSTALLATION. USE STAINLESS STEELS ANCHORS ENGAGED 3" INTO BACKUP MASONRY.

2 AE-506 FENCE: REINSTALLATION
Scale: 1" = 1'-0"

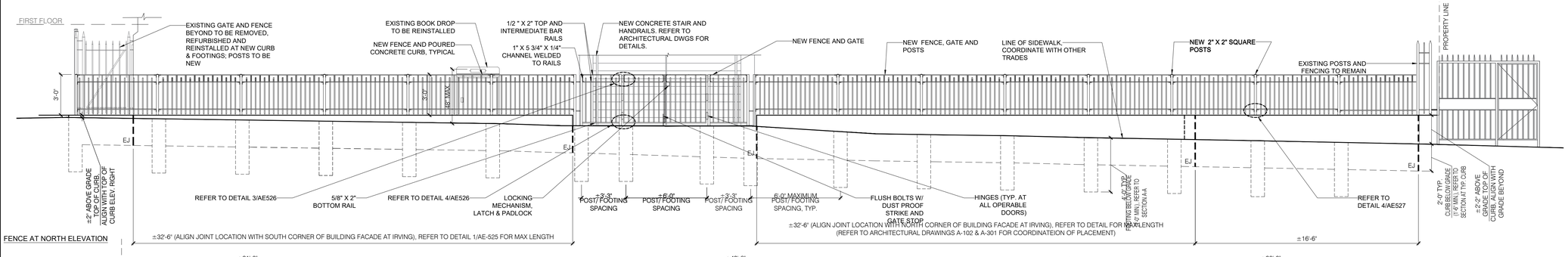




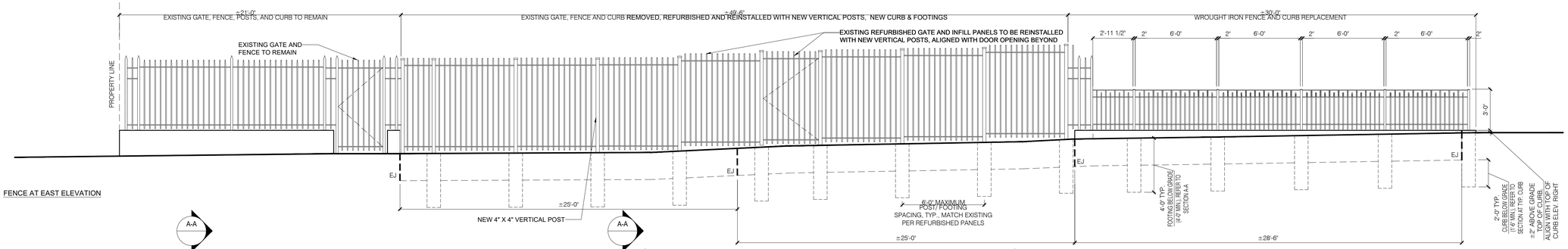
3 AE-526 GATE/ FENCE @POST
Scale: 3" = 1'-0"



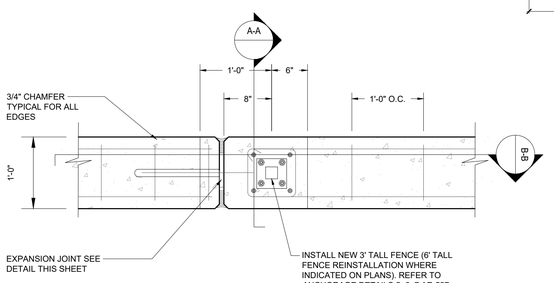
4 AE-526 GATE/ FENCE @POST
Scale: 3" = 1'-0"



FENCE AT NORTH ELEVATION



FENCE AT EAST ELEVATION

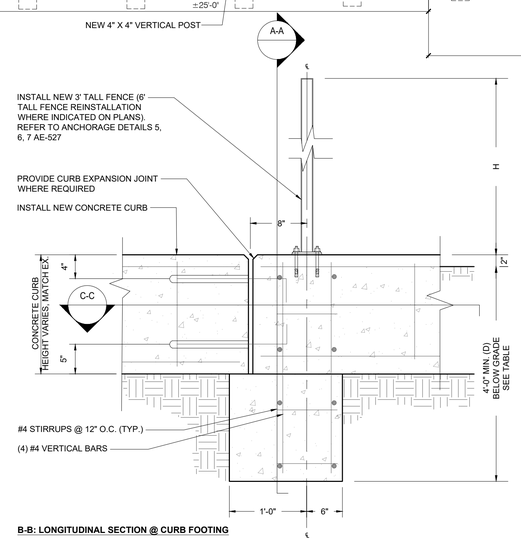


C-C: PLAN SECTION @ CURB

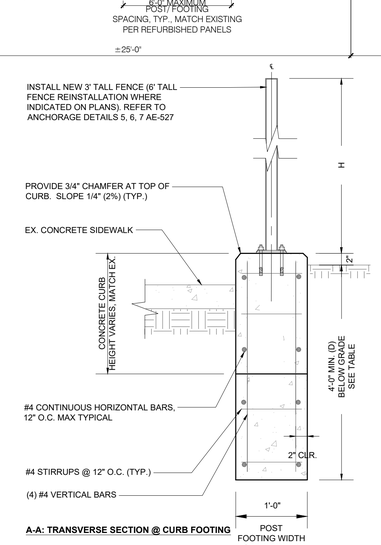
FENCE POST DESIGN TABLE		
POST HEIGHT (H)	POST FOOTING DEPTH (D)	POST FOOTING / CURB WIDTH
3'-0"	4'-0"	1'-0"
6'-0"	4'-0"	1'-0"


STIRRUP DIAGRAM

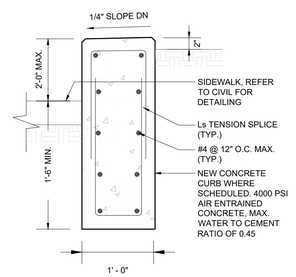
NOTES:
1. WHERE THERE IS NO EXPANSION JOINT, 12" FOOTING TO BE CENTERED ON POST.
2. SOIL BEARING CAPACITY TO BE A MINIMUM OF 150 PSF.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF NEW YORK FOR CONCRETE PLACEMENT AND CONCRETE REINFORCEMENT LAYOUT, INCLUDING LOCATION OF ALL EXPANSION JOINTS.
4. ALL CAST-IN-PLACE CONCRETE CURBS ARE TO BE OF 4000 PSI.
5. REFER TO CIVIL DRAWINGS FOR SIDEWALK AND GRADING SCOPE OF WORK - COORDINATE CURBS.
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF NEW YORK FOR NEW FENCE INSTALLATION AND MODIFIED/ REFURBISHED FENCE REINSTALLATION, AND ANCHORAGE CONFORMING TO LOADING REQUIREMENTS OF THE BUILDING CODE.
7. FINISH OF ALL METAL FENCING TO BE POWDER COATED TO MINIMUM AAMA 2604 FINISH, COLOR TO BE SELECTED BY OWNER.



B-B: LONGITUDINAL SECTION @ CURB FOOTING



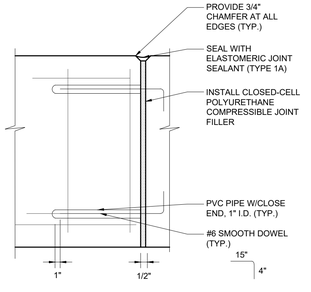
A-A: TRANSVERSE SECTION @ CURB FOOTING



SECTION @ TYP. CURB

NOTE:
1. EXPANSION JOINTS AT CURBS TO BE PLACED EVERY 40' MAX. OR AS INDICATED ON DRAWINGS.
2. CURB HEIGHTS VARY DUE TO ELEVATION CHANGE, CONTRACTOR TO MATCH EXISTING CURB HEIGHTS.

TYPICAL CURB REPLACEMENT



SECTION @ TYP. CURB EXPANSION JOINT

DOB APPROVAL STAMP

1 AE-526 FENCE: REPLACE
Scale: 1" = 1'-0"

Y:\2023\23-044901_Building Envelope_Documents\02_Design Phase\DI_WIP\CAD\04-526 - SITE DETAILS.dwg

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

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THE FALCON GROUP
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40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

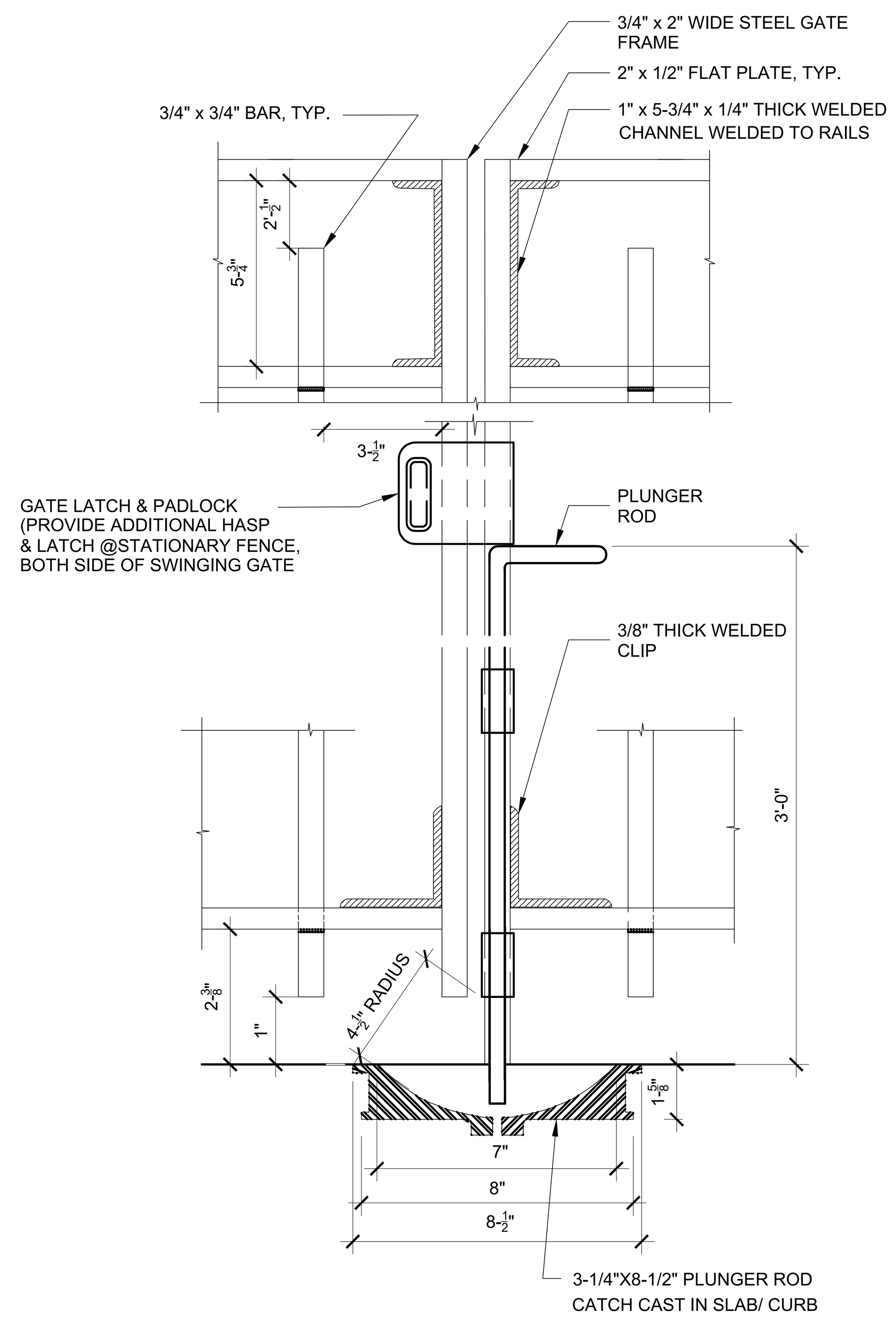
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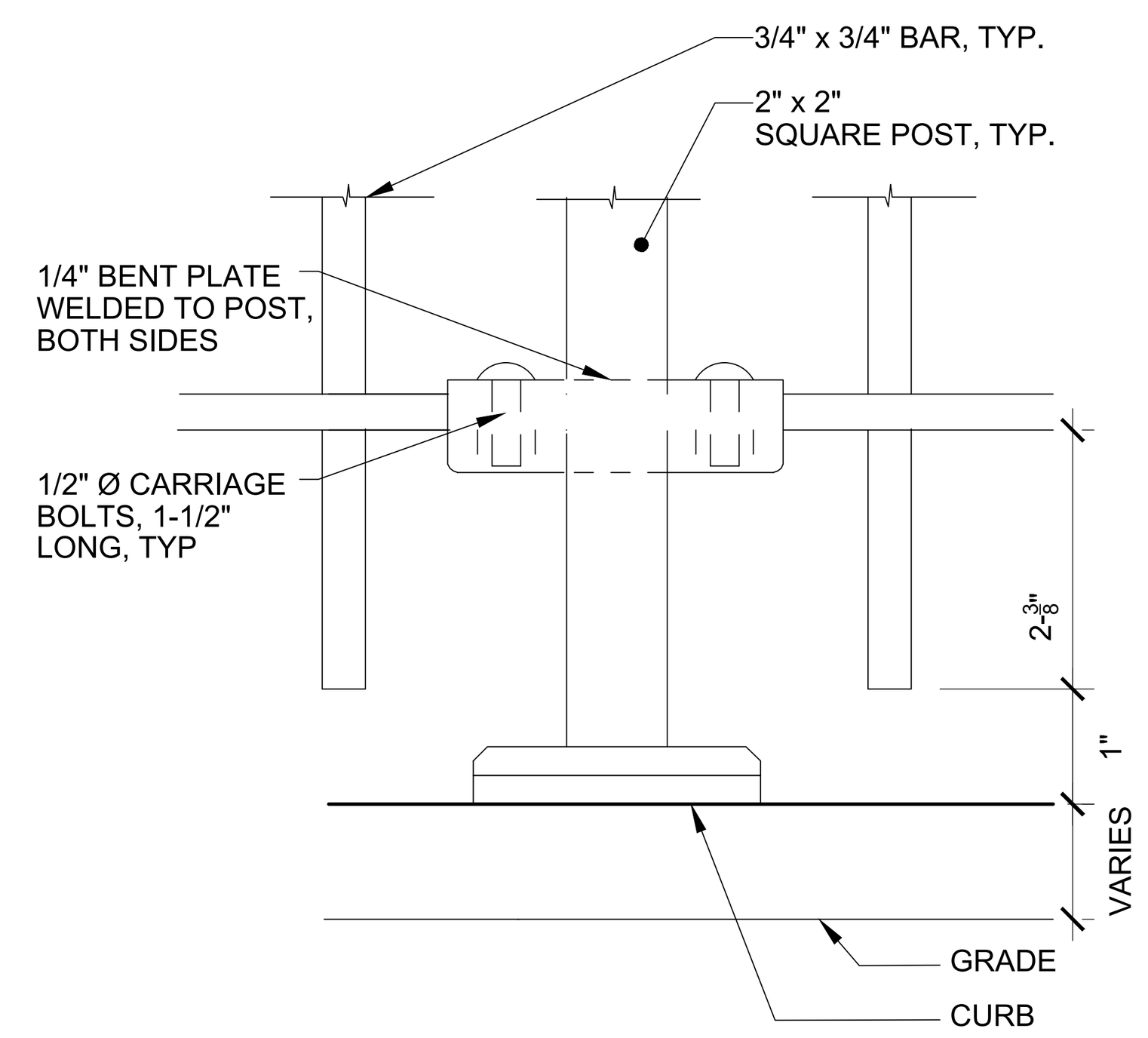
SITE DETAILS

SEAL & SIGNATURE



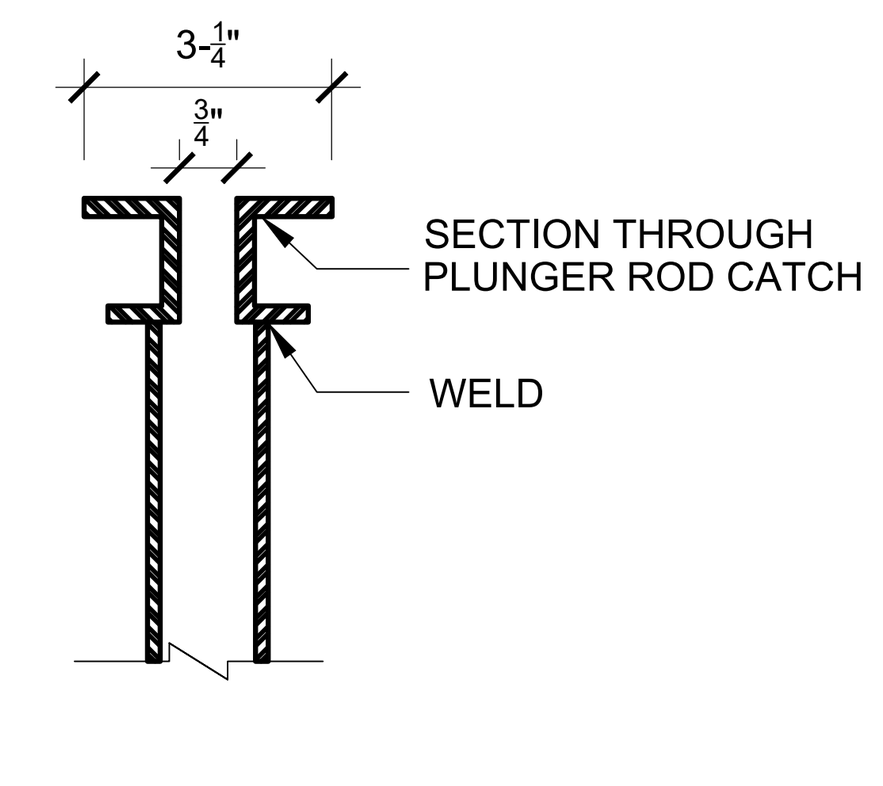
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PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	AE-526.00
CAD FILE No: 13	OF 30



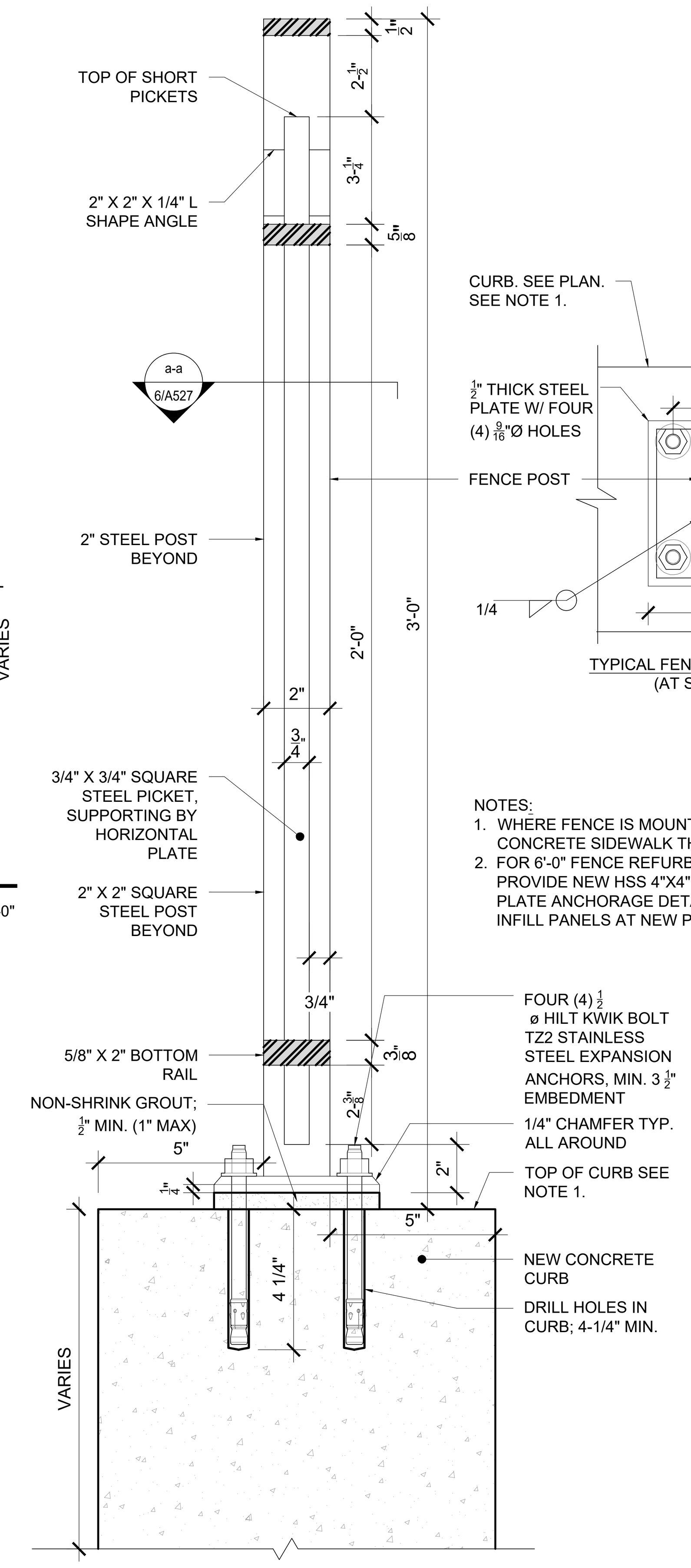


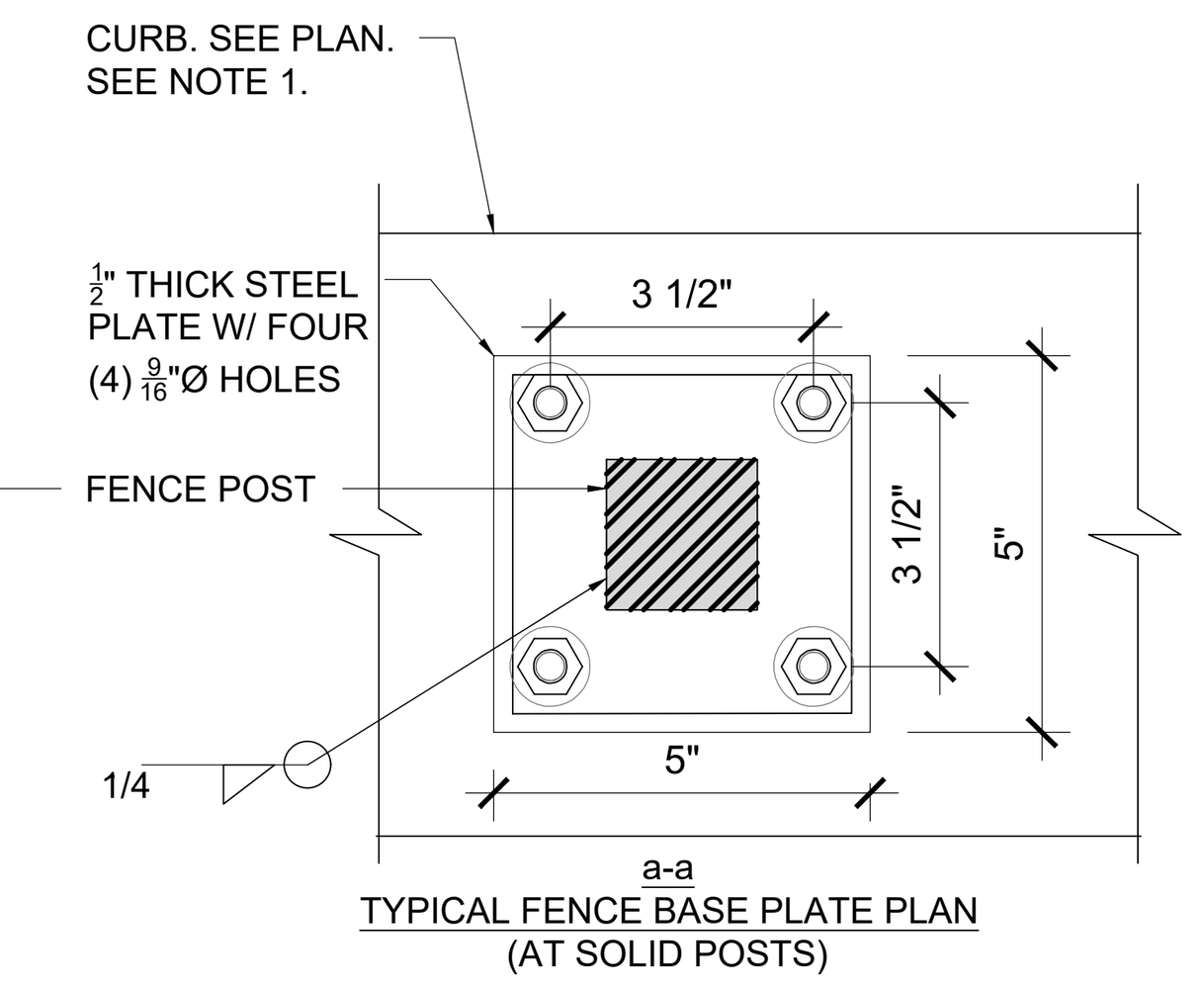
NOTES:
1. $\frac{1}{4}$" BENT PLATE & BOLTED CONNECTION TYPICAL @ TOP & BOTTOM

4 AE-527 IRON PICKET FENCE DETAIL
Scale: 3" = 1'-0"



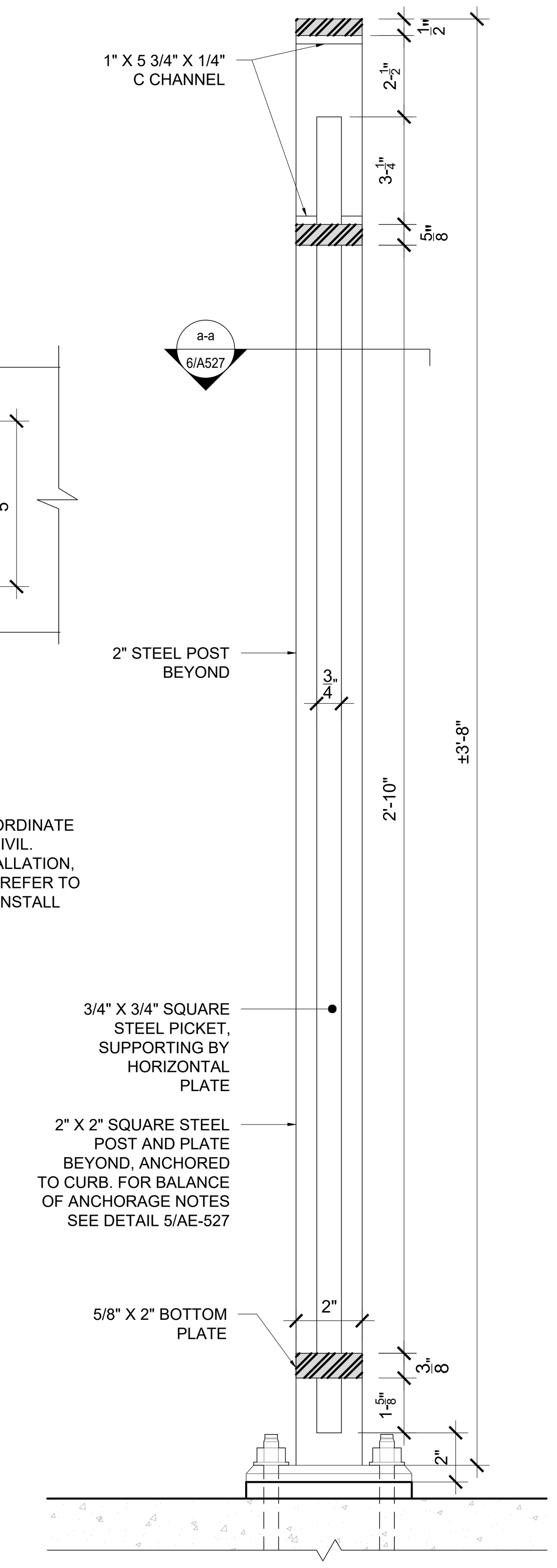
3 AE-527 PICKET FENCE CATCH (DETAIL AND SECTION)
Scale: 3" = 1'-0"



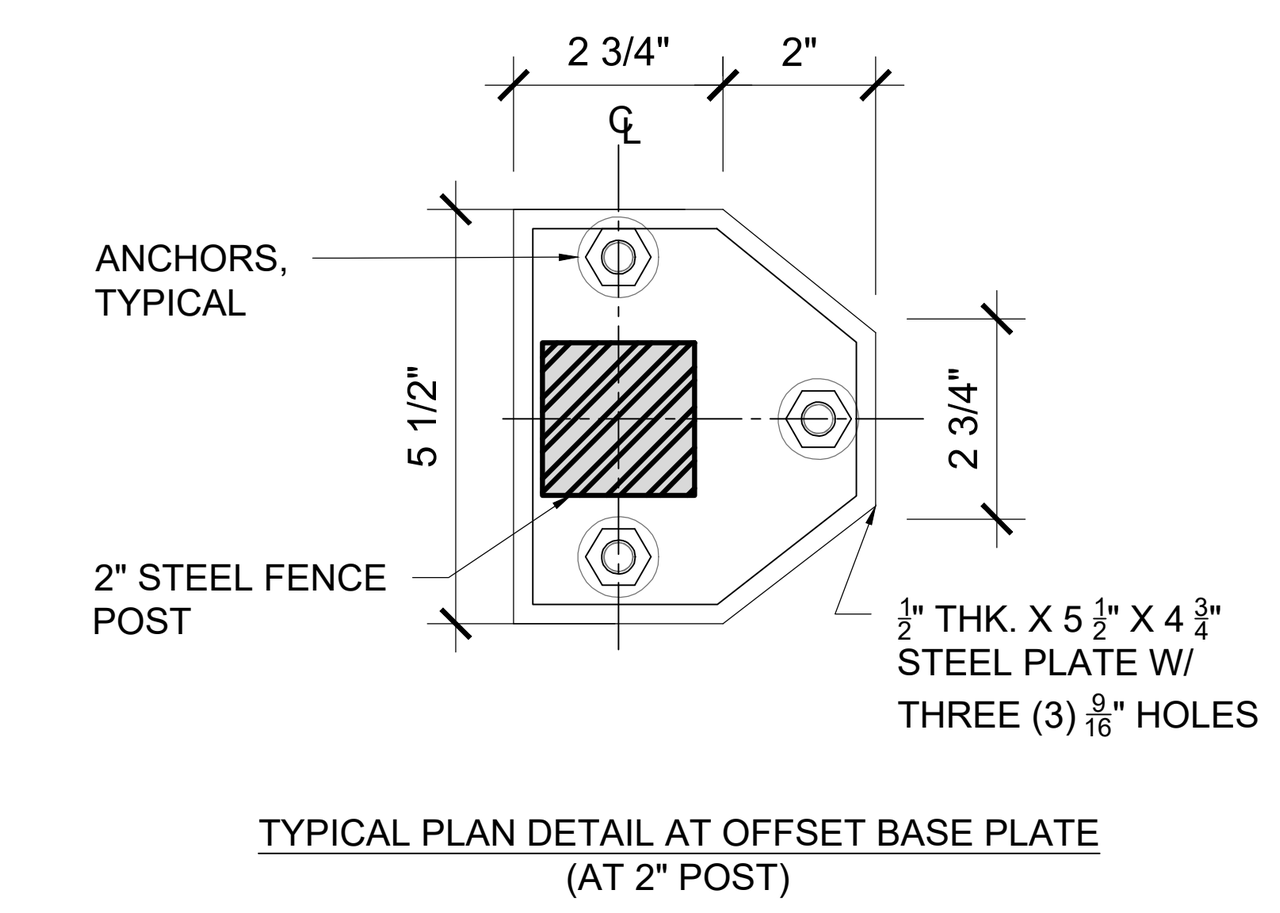


NOTES:
1. WHERE FENCE IS MOUNTED TO SIDEWALK, COORDINATE CONCRETE SIDEWALK THICKNESS. REFER TO CIVIL.
2. FOR 6'-0" FENCE REFURBISHMENT AND REINSTALLATION, PROVIDE NEW HSS 4"X4" POST, 6'-0" IN HEIGHT. REFER TO PLATE ANCHORAGE DETAILS 7/ AE-527, AND REINSTALL INFILL PANELS AT NEW POSTS.

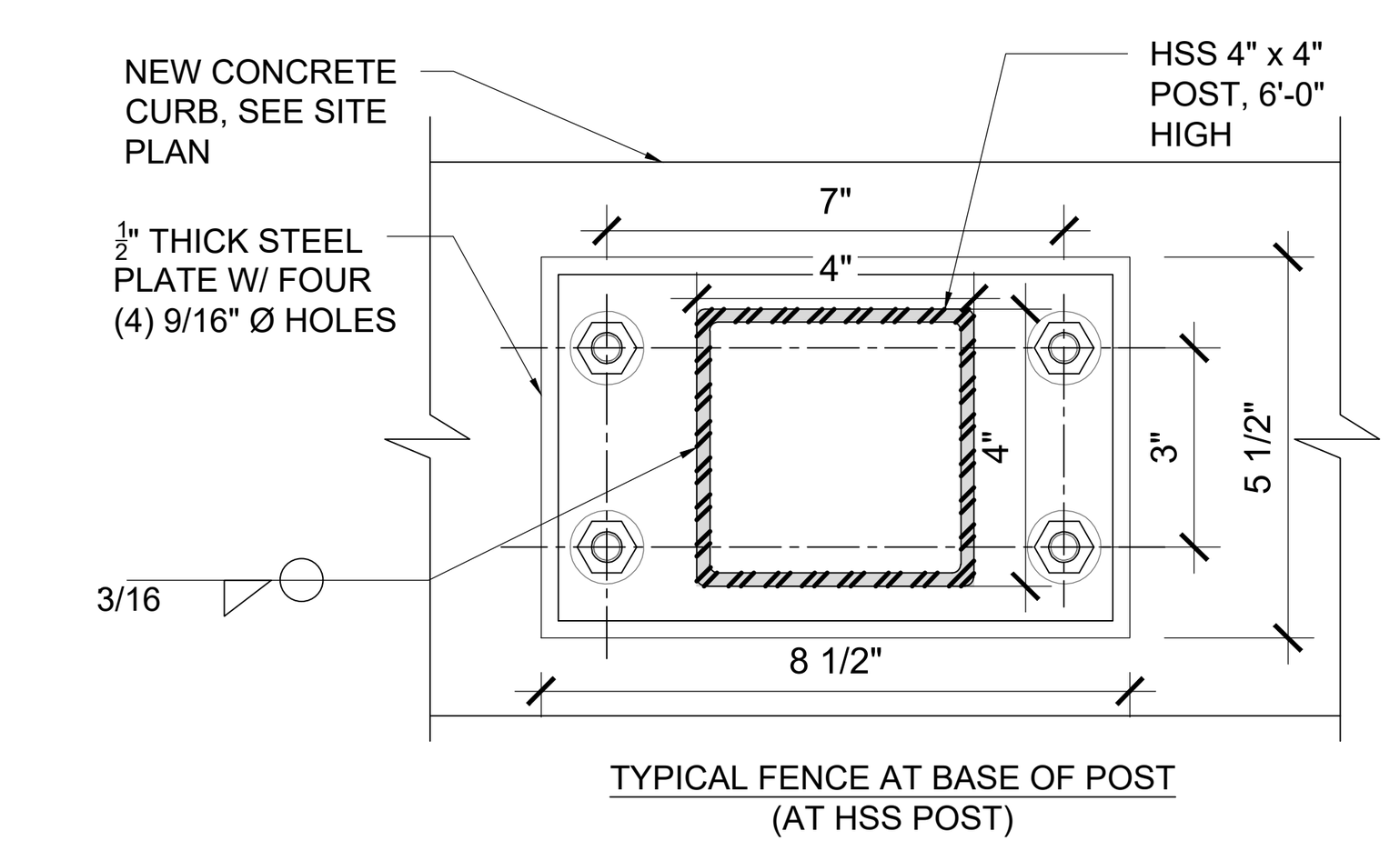
5 AE-527 SECTION @ TYPICAL FENCE
Scale: 3" = 1'-0"



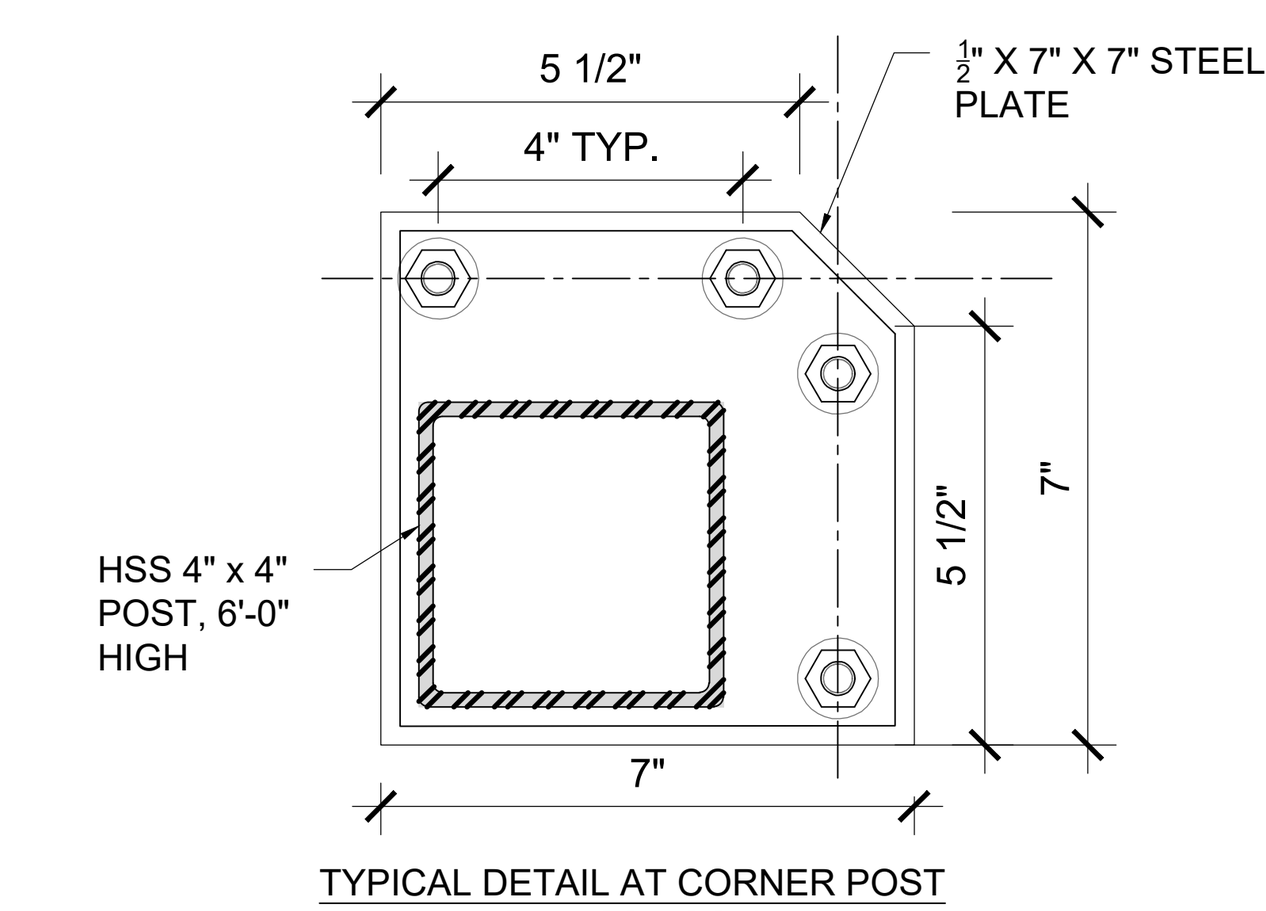
6 AE-527 SECTION THRU FIXED PANEL AT GATE
Scale: 3" = 1'-0"



NOTE:
FOR BALANCE OF ANCHORAGE NOTES, SEE DETAIL 5/AE-527.

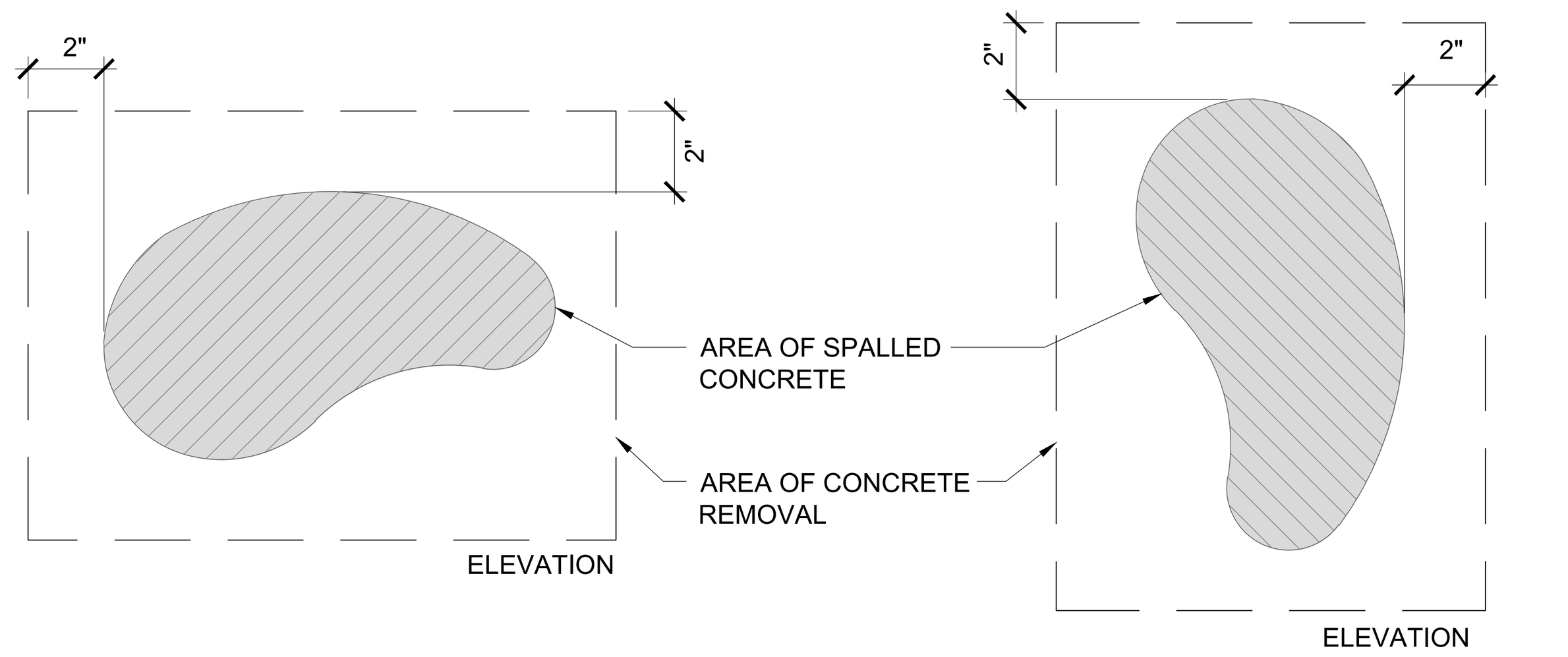


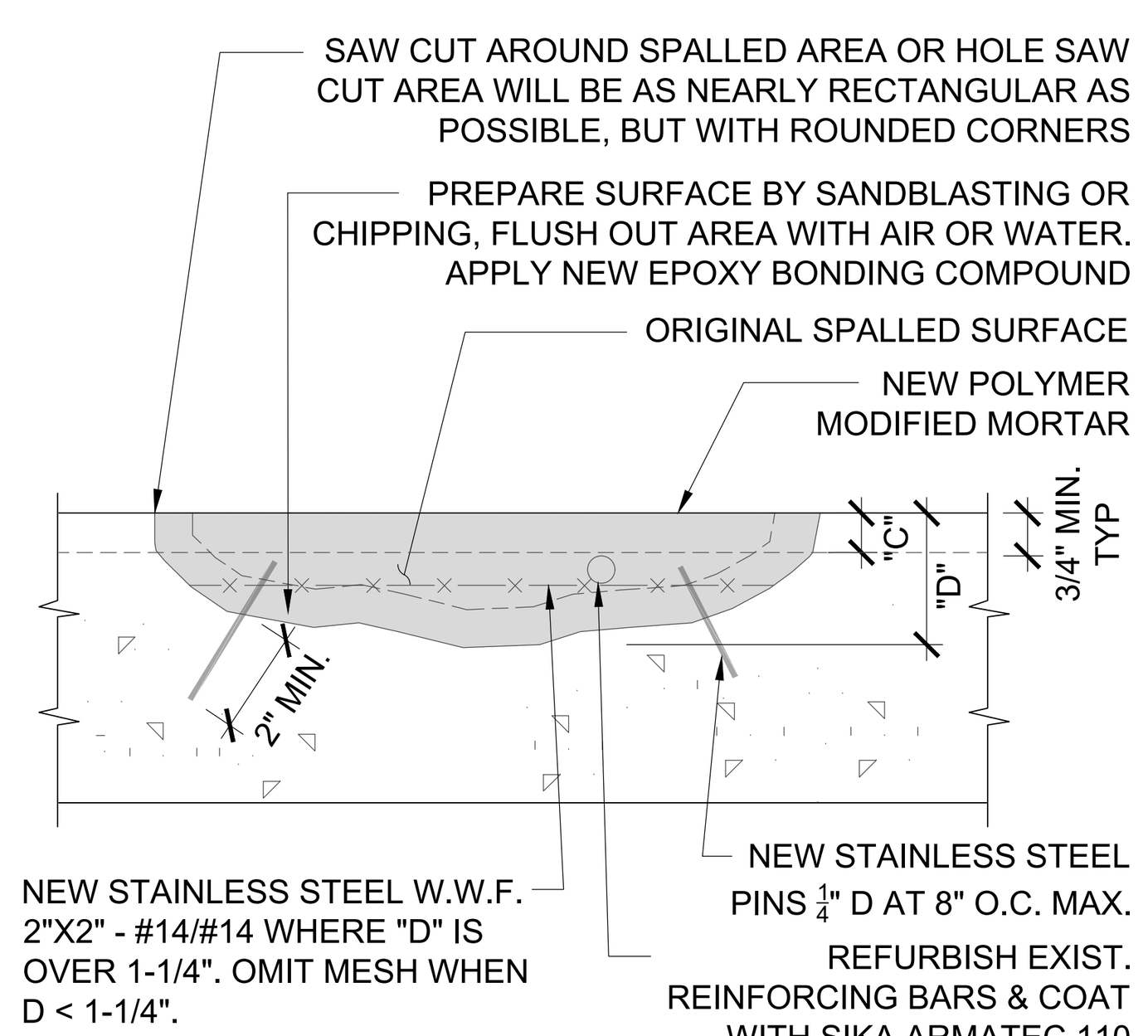
NOTE:
FOR BALANCE OF ANCHORAGE NOTES, SEE DETAIL 5/AE-527.



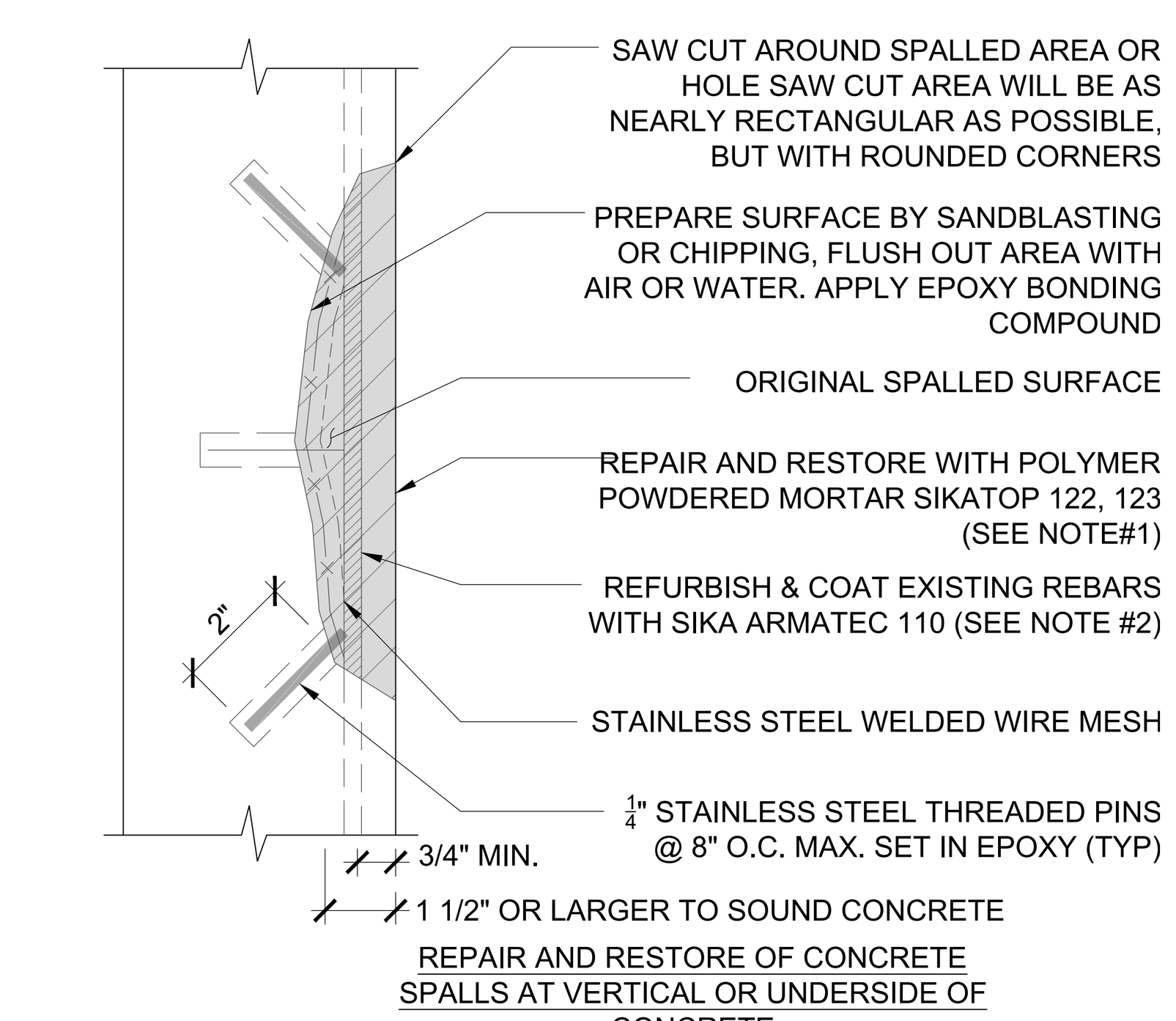
NOTE:
FOR BALANCE OF ANCHORAGE NOTES, SEE DETAIL 5/AE-527.

7 AE-527 PLAN DETAILS @ FENCE POSTS
Scale: 3" = 1'-0"





TYPICAL REPAIR AND RESTORE OF SPALLS AT TOP OF CONCRETE

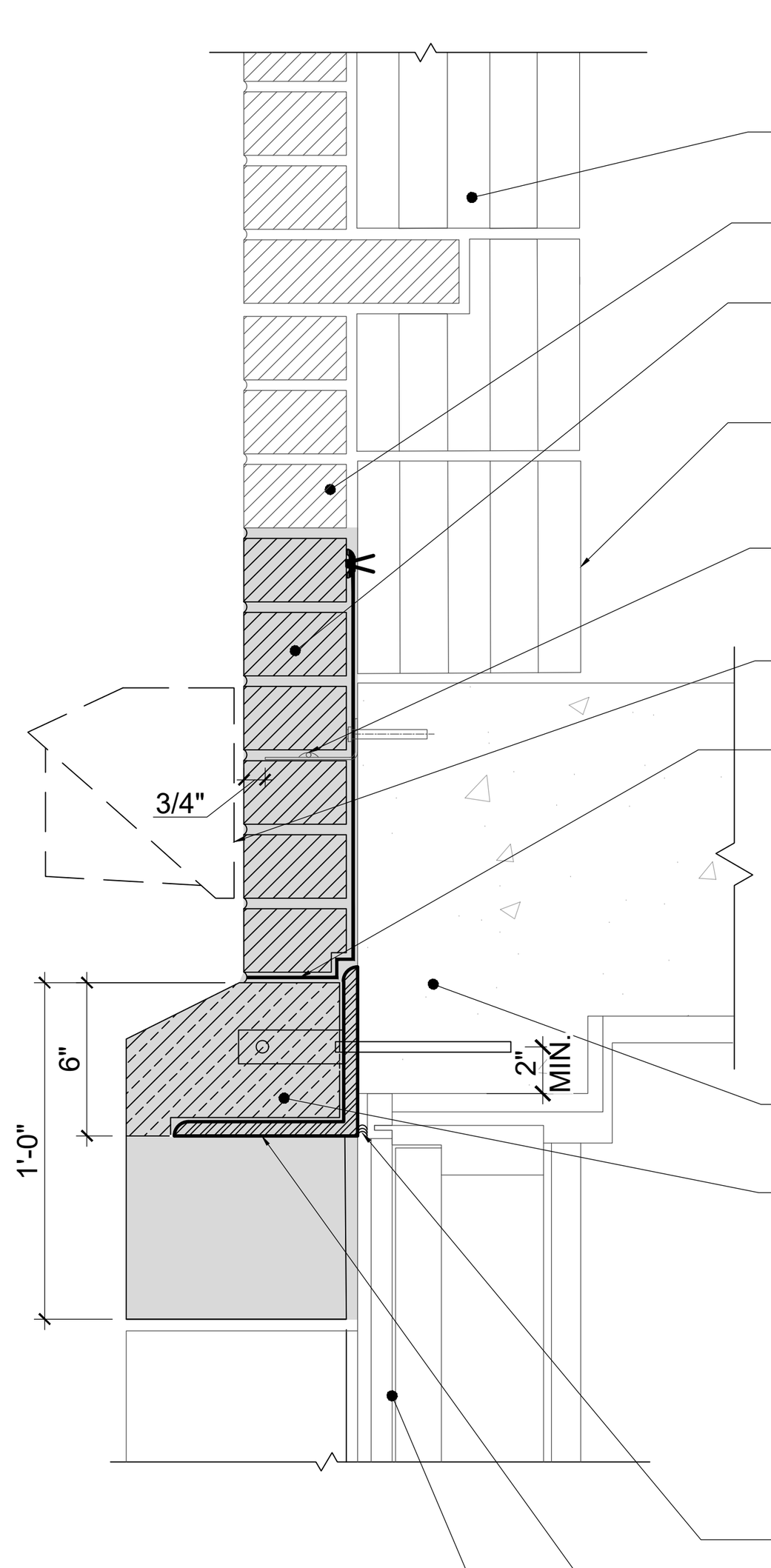


REPAIR AND RESTORE OF CONCRETE SPALLS AT VERTICAL OR UNDERSIDE OF CONCRETE

NOTES:
1. USE SIKATOP 123 FOR OVERHEAD & VERTICAL SURFACES. USE SIKATOP 122 FOR HORIZONTAL SURFACES AT TOP OF SLAB.
2. REMOVE & REPLACE DETERIORATED REBARS WITH NEW EPOXY COATED REINFORCEMENT BARS SAME SIZE AS EXISTING, LAP NEW BARS WITH EXISTING GOOD BARS 8" MIN. AND TIE WITH S.S. TIE WIRE.

REPAIR AND RESTORE PROCEDURE:
1. REPAIR AND RESTORE TO MATCH EXISTING CONCRETE IN COLOR AND TEXTURE.
2. MINIMUM COVER OVER REINFORCEMENT WILL BE C=1" AT ALL SURFACES.
3. PATCHING MATERIAL TO BE SIKATOP 111 PLUS WITH 3/8" PEA GRAVEL
4. AFTER REPAIR AND RESTORE, SEAL CONCRETE SURFACE WITH SIKAGUARD 670W COATING TO MATCH ADJACENT AREAS IN COLOR.
5. FOLLOW MANUFACTURER'S RECOMMENDATIONS

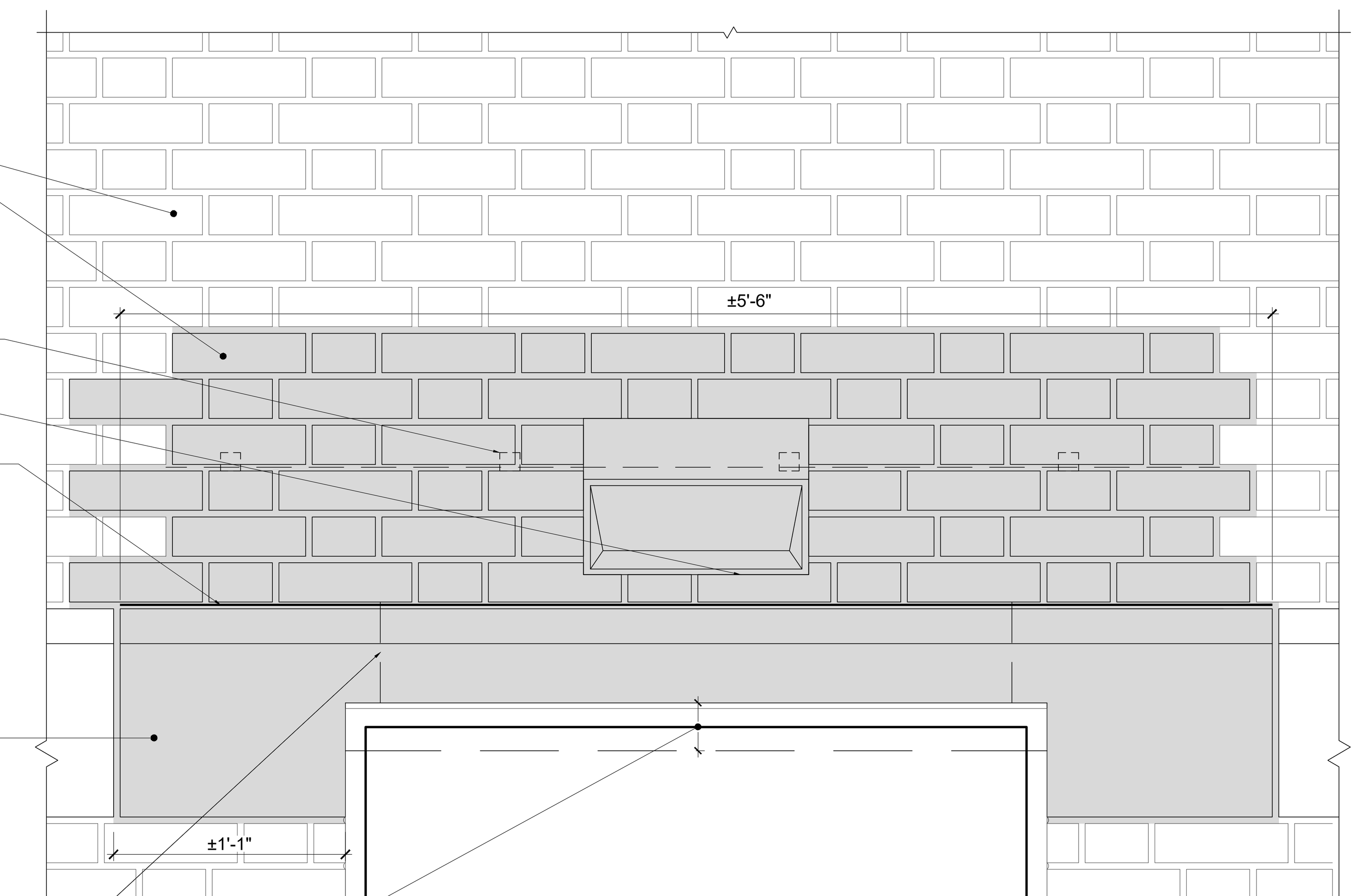
1 AE-527 CONCRETE PATCH @ VERTICAL or HORIZONTAL OF CONCRETE
Scale: 3" = 1'-0"



SECTION

EXITING BACK UP TERRA-COTTA TO REMAIN
EXITING BRICK MASONRY TO REMAIN
REMOVE AND CAREFULLY REINSTALL BRICKS AFTER APPLYING COMPOSITE FLASHING
CAREFULLY REMOVE AND REINSTALL TERRA COTTA BLOCK AFTER APPLYING COMPOSITE FLASHING
H&B S.S. TYPE 304 16 GA. 345-SV-SEISMIC-NOTCH VENEER ANCHOR WITH CONTINUOUS S.S. WIRE
EXITING LIGHT FIXTURE TO BE REMOVED AND REINSTALLED
COMPOSITE FLEXIBLE FLASHING YORK 304 S.S. LAP VERTICAL SEAMS MIN 3". SPOT ADHERE TO VERTICAL SUBSTRATE AT 8" O.C. VERTICALLY AND HORIZONTALLY, SET IN FULL BED AT HORIZONTAL SUBSTRATES, SEAL ALL PENETRATIONS AND SEAL ALL SEAMS WITH APPROVED SEALANT BY YORK. PROVIDE ADDITIONAL STRIP AT HANGERS WITH MIN. 3" OVERLAP AT SEAMS. SECURE AT TOP WITH TERMINATION BAR AND SEALANT
EXISTING FLOOR SLAB & BEAM TO REMAIN
LIMESTONE WATER TABLE STONE TO BE REMOVED AND REPLACED IN KIND, ±5'-6" LENGTH, OFFSET AT DOOR OPENING, AND NOTCHED AT BOTTOM FOR INSTALLATION OF ANGLE. SECURE STONE TO BACK-UP WITH 3/8" THICK S.S. 441 STONE ANCHOR AT ONE TRANSVERSE JOINT AND 3/8" THICK S.S. CONCEALED C3 ANCHOR AT THE OTHER. SECURE ANCHOR TO BACK UP WITH 3/8" THICK THREADED RODS SET IN EPOXY MIN. 6" EMBEDMENT
INSTALL SIKAFLEX 1A SEALANT
INSTALL NEW GALVANIZED STEEL SHELF ANGLE 6'x6"x3/8" THICK, COATED WITH EPOXY SYSTEM, CUT 2" FROM OPENING BOTH SIDES. SECURED TO THE EXISTING BACK-UP WITH 3/8" DIAM. THREADED ROD, SET INTO CONCRETE SUBSTRATE WITH EPOXY ADHESIVE SYSTEM, MIN 6" EMBEDMENT
REFER TO ARCHITECTURAL DRAWINGS FOR DOOR SCOPE OF WORK (FILED UNDER SEPARATE APPLICATION). HEIGHT OF EXISTING DOOR TO BE ADJUSTED, ±2"

NOTES:
1. CONTRACTOR TO NOTIFY AOR UPON REMOVAL OF STONE TO CONFIRM BACK UP CONFIGURATION.
2. EXISTING BOND PATTERN IS FLEMISH CONTRACTOR TO REPLACE IN KIND



ELEVATION

2 AE-527 STONE: LINTEL REPLACE
Scale: 1-1/2" = 1'-0"

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

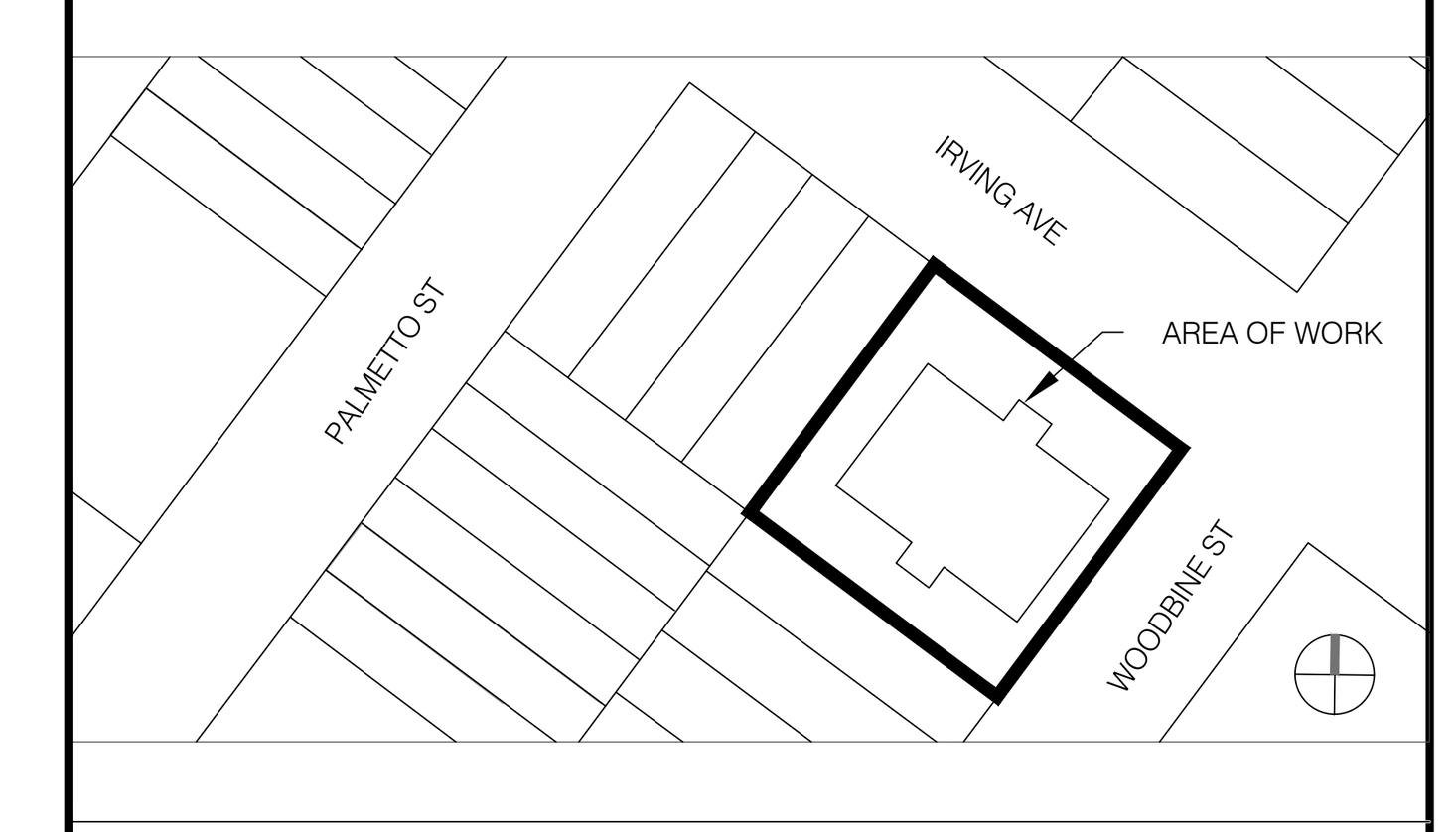
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DEROSIER ENGINEERING
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STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
DETAILS -1

SEAL & SIGNATURE

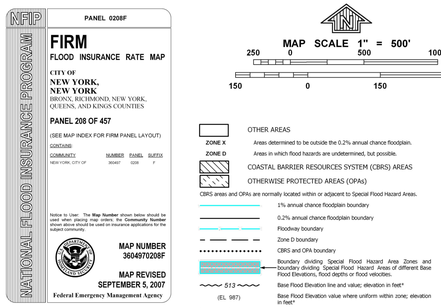


DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	
CHECKED BY:	
DRAWING NUMBER:	AE-527.00
CAD FILE No: 14	OF 30

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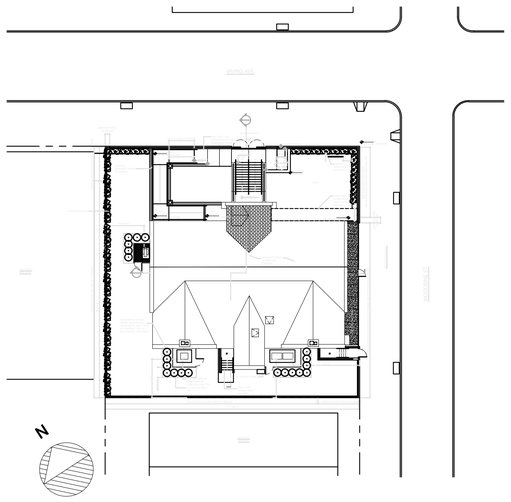
FEMA





THE SITE IS NOT IN A FLOOD ZONE. IT IS LOCATED IN ZONE X "AREA DETERMINED TO BE OUTSIDE FHT 0.2% ANNUAL CHANCE FLOOD PLAIN"

PLOT PLAN



RELATED JOB APPLICATIONS

ARCHITECTURAL	#B01099584
MECHANICAL	#B01108228-I1
PLUMBING	#B01108230-I1
FACADE	#B01099738-I1

BUILDING CODE REFERENCES

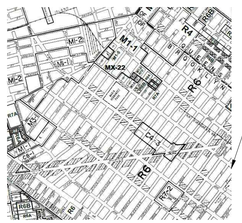
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SPECIAL INSPECTIONS

1. SPECIAL INSPECTION MUST BE PERFORMED PER CHAPTER 17 OF THE 2022 BUILDING CODE OF THE CITY OF NEW YORK FOR ALL REQUIRED STRUCTURAL ITEMS INCLUDING:

SPECIAL INSPECTION ITEMS	CODE/SECTION
STRUCTURAL STEEL – WELDING	BC 1705.2.1
STRUCTURAL STEEL – DETAILS	BC 1705.2.2
STRUCTURAL STEEL – HIGH STRENGTH BOLTING	BC 1705.2.3
CONCRETE – CAST IN PLACE	BC 1705.3
CONCRETE – DESIGN MIX	BC 1905.3; BC 1913.5
CONCRETE – SAMPLING AND TESTING	BC 1709.6; BC 1913.10
MASONRY	BC 1705.4
SUB-SURFACE CONDITIONS – FILL PLACEMENT, IN-PLACE DENSITY, AND SUBGRADE INSPECTION	BC 1705.6
STRUCTURAL STABILITY – EXISTING BUILDINGS	BC 1705.25
POST-INSTALLED ANCHORS	BC 1705.37

ZONING AND BUILDING INFORMATION



SITE
360 IRVING AVENUE, BROOKLYN
NEW YORK 11237

NO CHANGE IN USE, OCCUPANCY OR EGRESS

ZONING / BUILDING SUMMARY

- BLOCK # 3362
- LOT # 32
- MAP # 13B
- ZONING DISTRICT : R-6
- LOT AREA : 10,000 SF
- LOT DIMENSIONS : 100 FT x 100 FT
- NO. OF FLOORS : 1+BASEMENT
- ZONING USE GROUP : 3 COMMUNITY FACILITIES
- OCCUPANCY CLASS:PUBLIC BUILDING [1938 BUILDING CODE]
  GROUP B-BUILDING [2022

DRAWING LIST - STRUCTURAL

SHEET NUMBER	SHEET NAME
S-000.00	PROJECT INFORMATION
S-001.00	STANDARD ABBREVIATIONS
S-002.00	GENERAL STRUCTURAL NOTES
S-003.00	STRUCTURAL DESIGN CRITERIA
DMS-101.00	BASEMENT DEMOLITION PLAN
DMS-102.00	FIRST FLOOR DEMOLITION PLAN
S-101.00	BASEMENT PLAN
S-102.00	FIRST FLOOR FRAMING PLAN
S-300.00	STAIR C ENLARGED PLANS & DETAILS
S-301.00	STAIR D ENLARGED PLANS & DETAILS
S-400.00	TYPICAL DETAILS
S-500.00	SECTIONS & DETAILS
S-501.00	SECTIONS & DETAILS

PROJECT INFORMATION

THE WASHINGTON IRVING BRANCH LIBRARY, ORIGINAL BUILT IN 1923, IS LOCATED AT 360 IRVING AVENUE. THE ONE-STORY BRICK MASONRY BUILDING INCLUDES A READING ROOM ON THE ELEVATED FIRST FLOOR, ADMINISTRATIVE OFFICE ON A MEZZANINE LEVEL, AND A BASEMENT LEVEL WITH MEP ROOMS, STAFF LOUNGE, MEETING/WORK ROOMS, AND RESTROOMS. ALTERATIONS IN 2002 INCLUDED AN BUILDING ADDITION TO HOUSE AN ELEVATOR AND MACHINE ROOM AND ADDITION OF AN ACCESSIBLE RAMP AND BASEMENT ENTRANCE. PROPOSED RENOVATIONS FOR THIS PROJECT INCLUDE HVAC, FIRE ALARM, AND PLUMBING SYSTEM UPGRADES, INTERIOR ARCHITECTURAL MODIFICATIONS, EXTERIOR REHABILITATION OF THE FACADE AND ROOF, AND STRUCTURAL ALTERATIONS TO SUPPORT THE RENOVATIONS.

STRUCTURAL SCOPE OF WORK SUMMARY

THE EXISTING BUILDING STRUCTURE IS COMPRISED OF CONCRETE FOOTINGS, EXTERIOR AND INTERIOR BRICK BEARING WALLS AND ISOLATED INTERIOR CONCRETE COLUMNS, REINFORCED CONCRETE CONSTRUCTION AT THE FIRST FLOOR AND MEZZANINE LEVELS, AND TIMBER ROOF TRUSSES WITH A WOOD PLANK ROOF. EXTERIOR CONCRETE STAIRS, WALLS, AND FOOTINGS EXIST ON THE NORTH AND SOUTH SIDES OF THE BUILDING. THESE STRUCTURAL DRAWINGS DESCRIBE SELECTIVE DEMOLITION AND ALTERATIONS TO REPLACE THE EXISTING EXTERIOR CONCRETE ENTRANCE STAIRS, TO PROVIDE NEW AND SHIFTED INTERIOR DOOR OPENINGS ON THE BASEMENT LEVEL, AND TO PROVIDE NEW PENETRATIONS THROUGH THE FIRST FLOOR CONCRETE STRUCTURE FOR ROUTING OF NEW MECHANICAL DUCTWORK.

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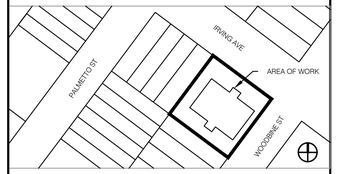
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KEY PLAN:



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NYC DDC Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
PROJECT INFORMATION

SEAL & SIGNATURE:



DATE:	03.17.2026
PROJECT NO:	P1864
DRAWN BY:	LERA
CHECKED BY:	LERA
DRAWING NUMBER:	S-000.00
CADO FILE No:	

STANDARD ABBREVIATIONS

THE LIST OF ABBREVIATIONS GIVEN BELOW IS NOT COMPREHENSIVE; THESE ABBREVIATIONS MAY OR MAY NOT BE INCORPORATED INTO THE CONTRACT DOCUMENTS AND ABBREVIATIONS NOT LISTED MAY BE USED. PERIODS MAY OR MAY NOT BE SHOWN AFTER THE ABBREVIATION.

ABBREVIATIONS ARE GIVEN USUALLY FOR THE SINGULAR CASE – FOR THE PLURAL CASE, THE SAME ABBREVIATION WITHOUT ADDING THE 'S' MAY BE USED. WHILE UPPER CASE LETTERS ARE SHOWN, EITHER UPPER CASE OR LOWER CASE LETTERS MAY BE USED IN SPECIFICATIONS.

THE FOLLOWING IS LISTED ALPHABETICALLY BY ABBREVIATION.

ABBREVIATION	COMPLETE WORD
A	BEAM AXIAL REACTION OR FORCE
ACI	AMERICAN CONCRETE INSTITUTE
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASD	ALLOWABLE STRESS DESIGN
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BS	BOTH SIDES
BSMT	BASEMENT
C	CHANNEL
CIP	CAST–IN–PLACE (CONCRETE)
CL	CENTER LINE
CLR	CLEAR, CLEARANCE
CM	CONSTRUCTION MANAGER
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONSTR	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CORP	CORPORATION
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CTR	CENTER
CU	CUBIC
CU FT, also FT^3	CUBIC FOOT
CU IN, also IN^3	CUBIC INCH
CU YD, also YD^3	CUBIC YARD
D	DEEP, DEPTH
D, also DL	DEAD LOAD
D_B	NOMINAL DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHOR
DEFL	DEFLECT (ION)
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
E	EAST
E–W	EAST–WEST
EA	EACH
EC	EARTHQUAKE COLUMN
EF	EACH FACE
EL	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FF	FAR FACE
FIG	FIGURE
FIN FL	FINISH FLOOR
FIN GR	FINISH GRADE
FL	FLOOR, FLOOR LINE
FLR	FLOOR, FLOORING
FND	FOUNDATION
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
FY	YIELD STRESS (STEEL)
GEN	GENERAL
GR	GRADE, GRADING
HOR, also HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
IF	INSIDE FACE
IN	INCH
INCL	INCLUDE(D), INCLUDING
INT	INTERIOR
JT	JOINT
K	KIP
K–FT	KIP–FEET
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	LENGTH
L, also LL	LIVE LOAD
LIN	LINEAR
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
M	MOMENT
MATL	MATERIAL
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH	MECHANIC, MECHANICAL
MEMB	MEMBER
MEZZ	MEZZANINE
MFR	MANUFACTURE, MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
N–S	NORTH–SOUTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOT REDUCIBLE (LIVE LOAD)
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT (CONCRETE)
OC	ON CENTER(S)
OF	OUTSIDE FACE
OPG	OPENING
OPP	OPPOSITE
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PRELIM	PRELIMINARY
PROV	PROVIDE, PROVISION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
R	BEAM VERTICAL REACTION OR FORCE
RD	ROUND
REBAR	REINFORCING BAR
REF	REFERENCE
REINF	REINFORCE(D), REINFORCING, REINFORCEMENT
REQD	REQUIRED
REV	REVISE(D), REVISION
S	SOUTH
SDL	SUPERIMPOSED DEAD LOAD
SECT	SECTION
SIM	SIMILAR
SOG	SLAB ON GROUND
SPEC	SPECIFICATION(S)
SQ	SQUARE
SQ FT, also FT^2	SQUARE FOOT
SQ IN, also IN^2	SQUARE INCH
SSL	SHORT–SLOTTED (BOLT HOLE)
STAG	STAGGER(ED)
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRY, SYMMETRICAL
T	TEE SECTION
TEMP	TEMPORARY
THK	THICK, THICKNESS
THRU	THROUGH
TOC	TOP OF CONCRETE
TOL	TOLERANCE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TSF	TONS PER SQUARE FOOT
TYP	TYPICAL
ULT	ULTIMATE
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W	WIDE FLANGE
W	WIDTH
W/	WITH
W/O	WITHOUT
WASH	WASHER
WT	WEIGHT
YD	YARD

SYMBOLS USED AS ABBREVIATIONS

&	AND
@	AT
@ X	AT X (LENGTH UNIT) ON CENTER
[	CHANNEL
][	2 CHANNELS
#	NUMBER
ø	ROUND OR DIAMETER
◫	SQUARE

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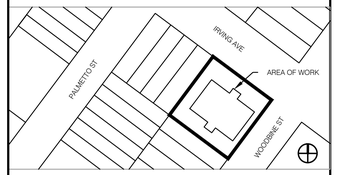
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CADO FILE No:	2 OF 13

GENERAL STRUCTURAL NOTES

1. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF THE 2022 BUILDING CODE OF THE CITY OF NEW YORK, WITH ALL APPLICABLE ADDENDA AND SUPPLEMENTS, HEREINAFTER REFERRED TO AS BUILDING CODE, AND TO THE REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION, WITH THE EXCEPTION THAT, WHERE PERMITTED UNDER SECTION 28-101.4.3 OF THE 2022 BUILDING CODE, WORK ON PRIOR CODE BUILDINGS MAY BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND STANDARDS SET FORTH N THE 1968 BUILDING CODE.

2. CONTRACTOR MUST KEEP AT LEAST ONE FULL COPY OF THE FOLLOWING DOCUMENTS IN THE FIELD OFFICE AT ALL TIMES:

   A. *BUILDING CODE.*

   B. *FIELD REFERENCE MANUAL: STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-10, WITH SELECTED ACI AND ASTM REFERENCES,* ACI FIELD REFERENCE MANUAL, SP-15 (10).

   C. *AISC MANUAL OF STEEL CONSTRUCTION – LOAD & RESISTANCE FACTOR DESIGN,* AISC 360-05

3. CONTRACT DOCUMENTS

   A. CONTRACT DOCUMENTS ARE INTENDED TO INDICATE INFORMATION SUFFICIENT TO CONVEY THE DESIGN INTENT. THESE DOCUMENTS REPRESENT THE STRUCTURE IN ITS COMPLETED STATE, AND DO NOT INDICATE THE MEANS-AND-METHODS OF CONSTRUCTION, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND NOTIFY THE ENGINEER OF INCONSISTENCIES IN THESE DOCUMENTS PRIOR TO COMMENCEMENT OF THE WORK.

   B. THE SPECIFICATION SECTIONS 03300, 05100, AND ALL OTHER SECTIONS OF THE SPECIFICATIONS ARE BINDING ON CONTRACTOR AS THOUGH COPIED, WORD-FOR-WORD, DIRECTLY INTO THE DRAWINGS.

   C. "TYPICAL DETAILS" ARE APPLICABLE THROUGHT THE ENTIRE SCOPE OF WORK, ALTHOUGH THEY ARE NOT SPECIFICALLY REFERENCED. CONTRACTOR IS RESPONSIBLE TO REVIEW THESE DETAILS TO UNDERSTAND THE INTENT AND EXTENT OF THEIR APPLICATION. CONTRACTOR MUST NOTIFY THE ENGINEER IF CONDITIONS EXIST THAT ARE NOT SPECIFICALLY DETAILED, SCHEDULED OR COVERED BY TYPICAL DETAILS.

4. STRUCTURAL DESIGN CRITERIA IS FOR GENERAL INFORMATION ONLY AND IS PROVIDED FOR OWNER'S USE.

5. REFERENCE DOCUMENTS

   A. HISTORICAL DRAWING SCANS OF ORIGINAL STRUCTURAL DRAWINGS OF BROOKLYN PUBLIC LIBRARY IRVING BRANCH. EDW. L. TILLON ARCHITECT.

   B. GEOTECHNICAL DATA REPORT, JUNE 02, 2025, NV5-MRCE ENGINEERS JV

6. GENERAL REQUIREMENTS

   A. IT IS INTENDED THAT ALL MEMBERS BE FABRICATED AND ERECTED FREE OF SHOP AND FIELD SPLICES WHICH ARE NOT SPECIFICALLY SHOWN IN THE CONTRACT DRAWINGS. IF FIELD CONDITIONS NECESSITATE FIELD SPLICING OF MEMBERS, SUBMIT SPLICE LOCATIONS FOR STRUCTURAL ENGINEER'S ACCEPTANCE. WHERE FIELD SPLICING IS ACCEPTED, SPLICES MUST BE SHOWN IN THE SHOP DRAWINGS OR IN FIELD WORK DRAWINGS.

   B. CONTRACTOR IS TO BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS AND QUANTITIES AND FOR THE FITTING TO OTHER WORK; FOR WORK TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION PERTAINING TO THE FABRICATION PROCEDURE OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; AND FOR THE COORDINATION OF THE WORK OF THIS SECTION WITH THE WORK OF ALL OTHER TRADES. THE ARCHITECT'S AND STRUCTURAL ENGINEER'S REVIEW OF CONTRACTOR'S SUBMISSIONS DOES NOT RELIEVE CONTRACTOR FROM THESE RESPONSIBILITIES.

   C. FIELD MEASUREMENTS: OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK. SUBMIT, PRIOR TO INSTALLATION, ALL MEASUREMENTS INDICATING DISCREPANCIES FROM THE DRAWINGS. DESCRIBE IN WRITING AND, WHERE APPLICABLE, BY SKETCHES THE PROPOSED METHODS FOR CORRECTING DISCREPANCIES.

   D. LAY OUT EACH PART OF THE WORK IN STRICT ACCORDANCE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ALL OTHER DRAWINGS AND BE RESPONSIBLE FOR CORRECT LOCATION OF SAME.

   E. HOLES MUST NOT BE CUT OR DRILLED INTO EXISTING OR NEW STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

7. CONSTRUCTION SEQUENCE: DESCRIPTIONS OF LIMITATIONS ON CONSTRUCTION SEQUENCE ARE INTENDED TO ASSIST CONTRACTOR IN COORDINATING THE WORK OF THE PROJECT. DESCRIPTIONS DO NOT DESCRIBE FULLY THE LIMITATIONS GIVEN, DO NOT DESCRIBE ALL LIMITATIONS, NOR DO THEY PRECLUDE CONSTRUCTION SEQUENCES NOT CONTEMPLATED HEREIN. WHETHER OR NOT CONTRACTOR FOLLOWS THE LIMITATIONS ON CONSTRUCTION SEQUENCE DESCRIBED HEREIN AND UNTIL SUCH TIME AS THE STRUCTURAL WORK IS COMPLETED, CONTRACTOR REMAINS FULLY RESPONSIBLE FOR BOTH THE STABILITY AND THE SAFETY OF THE WORK; ADHERENCE TO THE LIMITATIONS DESCRIBED HEREIN DOES NOT RELIEVE CONTRACTOR FROM THAT RESPONSIBILITY.

8. EXISTING STRUCTURES

   A. DIMENSIONS AND DETAILS SHOWN IN STRUCTURAL DRAWINGS ARE TAKEN FROM THE ORIGINAL DESIGN DOCUMENTS AND MAY NOT ACCURATELY REPRESENT CURRENT EXISTING CONDITIONS. THE CONTRACTOR MUST VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY INSPECTION AND MEASUREMENT AT THE SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.

   B. FIREPROOFING: SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

9. SHORING AND DEMOLITION

   A. PROVIDE AND PLACE BRACING AND SHORING AS NEEDED. SUPPORT STRUCTURE TO REMAIN AS NECESSARY TO PREVENT DAMAGE OR UNACCEPTABLE DEFLECTION. KEEP ALL BRACING AND SHORING IN PLACE DURING NEW STRUCTURAL STEEL AND CONCRETE CONSTRUCTION AND UNTIL NEW CONCRETE ACHIEVES 80 PERCENT OF DESIGN STRENGTH.

      WHERE EXISTING STRUCTURE NEED BE WELDED TO, SHORE STRUCTURE PRIOR TO WELDING FOR THE FULL LOAD PRESENT AT THE TIME OF WELDING.

   BRACING AND SHORING, INCLUDING FOUNDATIONS AND CONNECTIONS TO EXISTING STRUCTURE WITH STIFFENER PLATES AS MAY BE REQUIRED, MUST BE DESIGNED BY CONTRACTOR'S PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK. PROCEDURES, DRAWINGS AND CALCULATIONS MUST BE SIGNED AND SEALED BY CONTRACTOR'S ENGINEER AND SUBMITTED FOR REVIEW AND APPROVAL.

   B. REMOVE ALL DEMOLISHED MATERIAL PROMPTLY FROM THE SITE.

   C. ERECT AND MAINTAIN DUSTPROOF BARRIERS TO PREVENT SPREAD OF DUST OR FUMES. PROVIDE MEANS FOR EFFECTIVE DUST CONTROL. REMOVE BARRIERS UPON COMPLETION.

   D. SAWCUT AND REMOVE CONCRETE TO TRUE SMOOTH LINES TO THE EXTENT SHOWN IN THE DRAWINGS AFTER INSTALLATION OF ALL ADDED BEAMS AND REINFORCEMENTS, WITHOUT DAMAGE TO EXISTING REINFORCING STEEL DESIGNATED TO REMAIN. JOINTS BETWEEN EXISTING CONCRETE AND NEW CONCRETE SLAB CONSTRUCTION MUST BE LEFT CLEAN, ROUGH, AND ESSENTIALLY VERTICAL.

   E. CAST NEW CONCRETE AS REQUIRED TO REPAIR CONCRETE SLABS, BEAM AND COLUMN ENCASEMENTS, AND THE LIKE THAT WERE DAMAGED OR REMOVED IN THE EXECUTION OF THIS CONTRACT TO THE SATISFACTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.

   F. ALL STEEL BEAM CUTS MUST BE NEAT, SMOOTH, AND TRUE TO LINE. REPAIR EXCESS GAS BURNING SERRATIONS AND GOUGES BY NECESSARY WELDING AND GRINDING.

   G. EXISTING MECHANICAL/ELECTRICAL WORK MAY NEED TO BE TEMPORARILY REMOVED TO ACCOMMODATE THE REINFORCEMENT OF THE EXISTING STRUCTURE. SEE MECHANICAL/ELECTRICAL DRAWINGS FOR REQUIREMENTS RELATED TO DOCUMENTING, REMOVING, STORING, REINSTALLING AND TESTING SUCH WORK.

10. CONTRACTOR'S ENGINEER

   A. CONTRACTOR MUST RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO OVERSEE CONTRACTOR'S DEMOLITION AND CONSTRUCTION SEQUENCE.

   B. CONTRACTOR'S PROFESSIONAL ENGINEER MUST DESIGN ALL TEMPORARY BRACING, SHORING AND THE LIKE. CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY CONTRACTOR'S PROFESSIONAL ENGINEER FOR TEMPORARY WORK.

   C. CONTRACTOR'S PROFESSIONAL ENGINEER MUST PROVIDE CONSTRUCTION PHASE OVERSIGHT OF THEIR WORK INCLUDING CONTROLLED INSPECTIONS THAT MAY BE REQUIRED.

REINFORCED CONCRETE

1. CONCRETE STRENGTHS AND UNIT WEIGHTS ARE LISTED BELOW. ALL CONCRETE MIXES MUST CONFORM TO THE PROVISIONS FOR CONCRETE QUALITY CONTAINED IN CHAPTERS 4 AND 5 OF ACI 318, EXCEPT THAT THE PROVISIONS OF THE SPECIFICATIONS MUST PREVAIL WHERE MORE STRINGENT.

F'C (PSI)*	COARSE AGGREGATE	LOCATIONS
5000	NORMAL WEIGHT	FOOTINGS, WALLS, STAIRS AND SLABS

* F'C MUST BE THE COMPRESSIVE STRENGTH AT 28 DAYS FOR TYPE I CEMENT AND AT 7 DAYS FOR TYPE III (HIGH EARLY STRENGTH) CEMENT.

2. GROUT UNDER BASE PLATES AND BEDDING PLATES TO BE BE NON-SHRINKING TYPE.

3. ALL REINFORCING STEEL TO BE BE DEFORMED BARS CONFORMING TO ASTM A615 (GRADE 60) UNLESS OTHERWISE NOTED.

4. DEFORMED STEEL REINFORCING BAR SIZES, NOMINAL BAR DIAMETERS AND NOMINAL CROSS SECTIONAL AREAS TO BE IN ACCORDANCE WITH ACI 318.

5. DETAILING OF REINFORCING STEEL TO CONFORM TO *ACI DETAILING MANUAL*, BY THE AMERICAN CONCRETE INSTITUTE (ACI PUB. SP-66).

6. MINIMUM CONCRETE COVER TO BE PROVIDED FOR REINFORCEMENT (SUBJECT TO TOLERANCES PERMITTED BY CODE) IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE INDICATED.

7. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE STRUCTURAL DRAWINGS OR AS ACCEPTED.

8. UNLESS INDICATED SPECIFICALLY TO THE CONTRARY, ALL REINFORCEMENT TO BE SPLICED WITH TENSION LAP SPLICES DEVELOPING THE FULL TENSILE CAPACITY OF THE REINFORCEMENT.

9. ALL BEAM AND SLAB CONSTRUCTION, INCLUDING UPSET BEAMS, TO BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS OTHERWISE SHOWN IN THE STRUCTURAL DRAWINGS.

10. LOCATION OF ALL CONSTRUCTION JOINTS MUST MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND ACI 318. DRAWINGS SHOWING LOCATION AND DETAILS OF THE PROPOSED CONSTRUCTION JOINTS MUST BE SUBMITTED AND ACCEPTED PRIOR TO SUBMITTING REINFORCING STEEL SHOP DRAWINGS.

11. PROPOSED OPENINGS OR RECESSES IN THE STRUCTURE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS, EITHER DIRECTLY OR BY TYPICAL DETAIL, MUST BE SUBMITTED FOR REVIEW.

12. COMPRESSION DEVELOPMENT LENGTHS (FOR GRADE 60 REBAR).

COMPRESSION DEVELOPMENT LENGTHS, LDC (INCHES)	
BAR SIZE	F'C (PSI)
	5000 OR HIGHER
# 3	8
# 4	9
# 5	11
# 6	14
# 7	16

   A. TABULATED VALUES ARE FOR NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE, WITH OR WITHOUT EPOXY COATING.

13. TENSION DEVELOPMENT LENGTHS AND SPLICE LENGTHS:

   REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPLICE LENGTHS SHOWN IN THE DRAWINGS. FOR CONVENIENT REFERENCE, TABLES OF DEVELOPMENT LENGTHS IN TENSION, LD, ARE GIVEN HERE.

   THE TABLES FOR LD ARE DIVIDED INTO CATEGORIES. CATEGORIES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER AND THE CENTER- TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:

STRUCTURAL ELEMENT	CONCRETE COVER	CATEGORY, ACCORDING TO CENTER-TO-CENTER BAR SPACING		
		$\leq 2D_B$	$\geq 2D_B$ $< 3D_B$	$\geq 3D_B$
BEAMS, COLUMNS	$< D_B$	2	2	2
	$\geq D_B$	2	1	1
ALL OTHERS	$< D_B$	2	2	2
	$\geq D_B$	2	2	1

   WHERE D_B = NOMINAL DIAMETER OF A BAR.

   THE FOLLOWING NOTES APPLY TO ALL THE TABULATED VALUES OF TENSION DEVELOPMENT AND TENSION LAP SPLICES:

   A. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE TO BE CAST IN THE MEMBER BELOW THE BARS. WALL HORIZONTAL BARS MUST BE CONSIDERED TOP BARS.

   B. THE LENGTHS OF TENSION LAP SPLICES MUST BE 1.3 x LD.

TENSION DEVELOPMENT LENGTHS, LD (INCHES) NORMAL WEIGHT CONCRETE				
BAR SIZE	F'C = 5000 PSI			
	TOP BARS CATEGORY		OTHER BARS CATEGORY	
	1	2	1	2
# 3	21	25	15	19
# 4	23	33	17	25
# 5	29	41	21	32
# 6	34	50	25	38
# 7	48	72	37	56

STRUCTURAL STEEL

1. UNLESS OTHERWISE NOTED, USE THE FOLLOWING:

SHAPE	ASTM STANDARD	MINIMUM FY (KSI)
WIDE-FLANGES, TEES	A 572, GRADE 50 A 992, GRADE 50	50
CHANNELS	A 572, GRADE 50	50
RECTANGULAR AND SQUARE HSS	A 500, GRADE C	50
ANGLES	A 572	50
CONNECTION PLATE	A 572	50

   WHERE NOTED OTHERWISE, PROVIDE THE INDICATED MINIMUM YIELD STRESS (FOR EXAMPLE, "FY 50" MEANS A MINIMUM YIELD STRESS OF 50 KSI).

2. ELECTRODES, FLUX AND SHIELDING GAS MUST PROVIDE PHYSICAL PROPERTIES AFTER WELDING EQUIVALENT TO OR BETTER THAN E7018 LOW HYDROGEN ELECTRODES.

3. ERECTION AIDS AND DEVICES ARE NOT SHOWN HEREIN. THE DETAILING OF THESE DEVICES IS THE RESPONSIBILITY OF CONTRACTOR.

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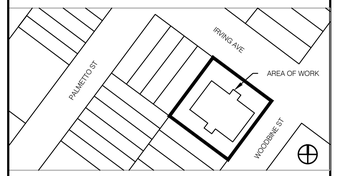
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Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
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FOR THE:
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GENERAL STRUCTURAL NOTES

SEAL & SIGNATURE:



DATE:	03.17.2026
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DRAWING NUMBER:	S-002.00
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STRUCTURAL DESIGN CRITERIA

THIS STRUCTURAL DESIGN CRITERIA OF THE PROJECT IS FOR GENERAL INFORMATION ONLY AND DOES NOT MODIFY, ALTER OR OVERRULE THE SPECIFICATIONS OR THE DRAWINGS.

A. LOCATION

THIS PROJECT IS LOCATED AT 360 IRVING AVENUE, BROOKLYN, NY, USA

B. CODES

THE STRUCTURAL DESIGN, REPRESENTED BY THE CONTENTS OF THE CONTRACT DOCUMENTS, IS IN GENERAL ACCORD WITH THE MINIMUM REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS. IN SOME INSTANCES, LERA HAS CONCLUDED THAT MORE STRINGENT REQUIREMENTS ARE APPROPRIATE FOR THE STRUCTURAL DESIGN OF THE PROJECT; IN THOSE INSTANCES, THE MORE STRINGENT STRUCTURAL REQUIREMENTS HAVE BEEN APPLIED.

1. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF THE 2022 BUILDING CODE OF THE CITY OF NEW YORK, WITH ALL APPLICABLE ADDENDA AND SUPPLEMENTS, HEREINAFTER REFERRED TO AS BUILDING CODE, AND TO THE REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION. WITH THE EXCEPTION THAT, WHERE PERMITTED UNDER SECTION 28-101.4.3 OF THE 2022 BUILDING CODE, WORK ON PRIOR CODE BUILDINGS MAY BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND STANDARDS SET FORTH IN THE 1968 BUILDING CODE.

2. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, BY AMERICAN SOCIETY OF CIVIL ENGINEERS.

3. AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, BY AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

4. ANSI/AWS D1.1-15, STRUCTURAL WELDING CODE - STEEL, BY AMERICAN WELDING SOCIETY.

5. ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, BY AMERICAN CONCRETE INSTITUTE.

6. ACI 530-13, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AS MODIFIED (FOR DESIGN OF STRUCTURAL MASONRY ONLY).

C. REFERENCE DOCUMENTS

1. SEE THE GENERAL STRUCTURAL NOTES FOR A LIST OF REFERENCE DOCUMENTS.

D. GRAVITY LOADS

THE LOADS THAT FOLLOW DO NOT INCLUDE THE WEIGHT OF STRUCTURAL STEEL MEMBERS. FURTHER, EXCEPT AS NOTED, LOADING INFORMATION FOR THE ELEVATORS AND MECHANICAL EQUIPMENT (I.E., BOILERS, CHILLERS, COOLING TOWERS, EMERGENCY GENERATORS AND THE LIKE) HAVE NOT BEEN INCLUDED IN THESE CRITERIA. NORMAL WEIGHT CONCRETE IS TAKEN AT A UNIT WEIGHT OF 150 PCF. LIGHTWEIGHT CONCRETE IS TAKEN AT A UNIT WEIGHT OF 117 PCF. LIVE LOADS ARE REDUCIBLE EXCEPT WHERE NOTED NR (NOT REDUCIBLE). THE FOLLOWING ARE DEAD, SUPERIMPOSED DEAD AND LIVE LOADS TAKEN FOR EACH OCCUPANCY CATEGORY:

1. FIRST FLOOR LIBRARY — PSF

CONSTRUCTION DEAD LOAD	
- FLORETYLE CONCRETE JOIST AND SLAB	65 (MAX)
- SOLID CONCRETE SLAB	115 (MAX)
SUPERIMPOSED DEAD LOAD	
- CEILING	5
- MECHANICAL/ ELECTRICAL	5
- FLOOR FINISHES	5
TOTAL SUPERIMPOSED DEAD LOAD	15
LIVE LOAD	100

E. SEISMIC LOADS (PER 1968 BUILDING CODE RS 9-6)

PER RS 9-6, THE EARTHQUAKE CODE DOES NOT AFFECT AN ALTERATION WHERE THERE IS NO ENLARGEMENT OF THE EXISTING STRUCTURE. THEREFORE, THE STRUCTURAL WORK DESCRIBED IN THESE DRAWINGS, FOR THE FACADE REPLACEMENT, IS NOT REQUIRED TO COMPLY WITH THE EARTHQUAKE CODE.

F. WIND LOADS (PER 1968 BUILDING CODE RS 9-5)

WIND LOADS PER RS 9- 5 ARE NOT APPLICABLE TO THE PROPOSED ALTERATIONS.

G. DEFLECTIONS

1. UNLESS OTHERWISE NOTED, LIVE LOAD DEFLECTIONS OF BEAMS ARE LIMITED TO SPAN/500 OR 3/4 INCH, WHICHEVER IS SMALLER.

2. BEAMS AND LINTELS SUPPORTING MASONRY (INCLUDING MASONRY PARTITIONS): DEFLECTION DUE TO DEAD PLUS LIVE LOAD IS LIMITED TO SPAN/600 OR 0.3", WHICHEVER IS SMALLER (PER ACI 530, MASONRY STRUCTURES BUILDING CODE).

H. LOAD COMBINATIONS

1. DEFINITIONS:

D = DEAD LOAD
L = LIVE LOAD

2. SERVICE LOADS AND FORCES

1. D
2. D + L

3. FACTORED LOADS AND FORCES

1. 1.4 D
2. 1.2 D + 1.6 L

J. SOIL BEARING PRESSURE

1. THE AVAILABLE STRUCTURAL DRAWINGS NOTE THAT "FOOTINGS FIGURED ON EARTH TO SUSTAIN 6000 PSF", WHICH IS UNDERSTOOD TO BE THE ALLOWABLE BEARING PRESSURE USED IN THE ORIGINAL BUILDING DESIGN.

2. PER "GEOTECHNICAL DATA REPORT" PREPARED BY NV5-MRCE ENGINEERS JV, DATED JUNE 2, 2025, BORINGS ACCOMPLISHED ADJACENT TO EXTERIOR STAIR STRUCTURES TO BE REPLACED HAVE DETERMINED THE FOLLOWING:

A. RESULTS OF BORINGS B-1 AND B-1A AT STAIR C: SOILS ABOVE EL. 45.00' ARE CLASS 7 AND INCLUDE "ROOTS", WHICH PER BUILDING CODE 1806.2.1 ARE UNDERSTOOD TO BE "NOMINALLY UNSATISFACTORY BEARING MATERIAL". SOILS AT AND BELOW EL. 45.00' ARE CLASS 3B, WHICH PER BUILDING CODE TABLE 1806.1 HAS AN ALLOWABLE BEARING CAPACITY OF 3 TSF (6,000 PSF).

B. RESULTS OF BORINGS B-2 AT STAIR D: SOILS ABOVE EL. 48.00' ARE CLASS 7 AND INCLUDE "ROOTS", WHICH PER BUILDING CODE 1806.2.1 ARE UNDERSTOOD TO BE "NOMINALLY UNSATISFACTORY BEARING MATERIAL". SOILS AT AND BELOW EL. 48.00' ARE CLASS 3A, WHICH PER BUILDING CODE TABLE 1806.1 HAS AN ALLOWABLE BEARING CAPACITY OF 6 TSF (12,000 PSF).

3. BOTTOM OF FOOTINGS FOR REPLACEMENT STAIR STRUCTURES IN THESE DRAWINGS ARE SHOWN TO BEAR ON CLASS 3B SOILS OR BETTER, WITH MINIMUM BEARING CAPACITY OF 6,000 PSF.

4. DURING CONSTRUCTION, GEOTECHNICAL ENGINEER TO INSPECT THE PREPARED SUBGRADE SURFACES TO VERIFY THE FOUNDATIONS ARE BEARING ON THE SOIL CONDITIONS REQUIRED IN NOTE 3 ABOVE AND ACCOMPLISH TESTING TO VERIFY THE BEARING CAPACITY.

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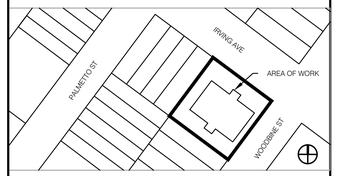
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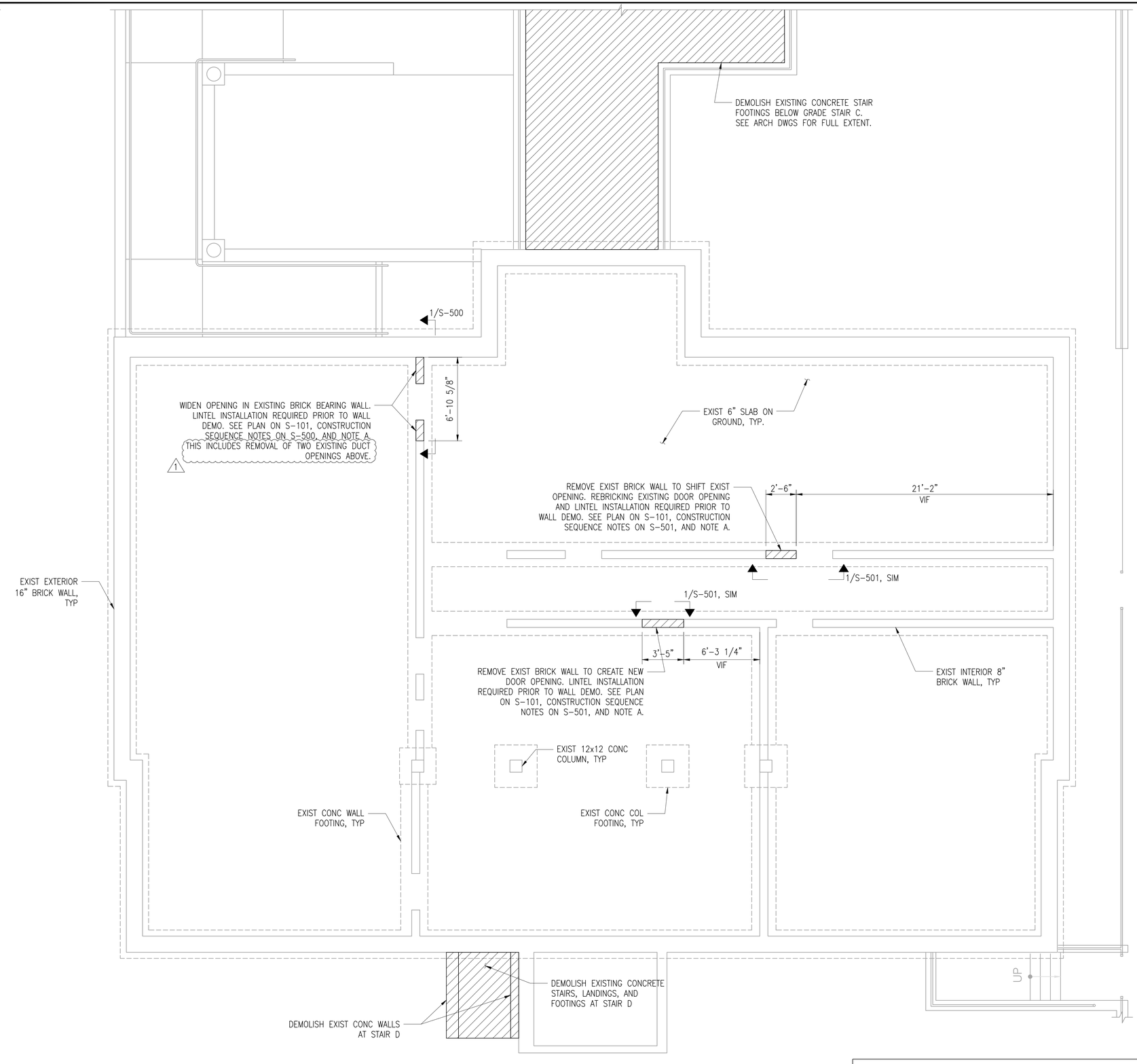
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1 **DEMO BASEMENT PLAN**
SCALE: 1/4" = 1'-0"

NOTES:

1. REFER TO:
   S-00X SERIES DRAWINGS FOR GENERAL NOTES, DESIGN CRITERIA AND ABBREVIATIONS
   DMS-10X SERIES DRAWINGS FOR DEMOLITION PLANS
   S-1XX SERIES DRAWINGS FOR PLANS
   S-3XX SERIES DRAWINGS FOR PART PLANS AND SECTIONS
   S-4XX SERIES DRAWINGS FOR TYPICAL DETAILS
   S-5XX SERIES DRAWINGS FOR SECTIONS AND DETAILS
2. TOP OF BASEMENT LEVEL CONCRETE SLAB IS AT REFERENCE ELEVATION +48.39'. SEE ARCHITECTURAL PLANS FOR VARIATIONS IN FLOOR ELEVATION.
3. LOCATION AND EXTENT OF EXISTING STRUCTURE INCLUDING FOUNDATIONS, WALLS, SLABS, COLUMNS, AND BEAMS, AND STRUCTURAL GRIDS, ARE BASED ON LIMITED INFORMATION FROM EXISTING DRAWINGS AND SITE OBSERVATIONS, WHICH MAY NOT ACCOUNT FOR ALL FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL CONDITIONS IN THE FIELD DURING CONSTRUCTION.
4. EXISTING CONSTRUCTION AND ARCHITECTURAL BACKGROUND INFORMATION IS SHOWN FADED AND IS PROVIDED FOR REFERENCE ONLY. SEE ORIGINAL ARCHITECTURAL DRAWINGS, EXISTING STRUCTURAL DRAWINGS, AND THE LIKE FOR EXISTING CONSTRUCTION INFORMATION AND VERIFY ALL PERTINENT CONDITIONS IN THE FIELD. SEE ARCHITECTURAL DRAWINGS AND SPECS FOR ARCHITECTURAL INFORMATION.
5. FOR FLOOR OPENINGS, SAWCUT 1/2" DEEP AT PERIMETER OF SLAB AREA TO BE REMOVED AND CHIP AND REMOVE CONCRETE WITHIN SAWCUT PERIMETER. DO NOT DAMAGE OR REMOVE EXISTING REINFORCING BARS EXCEPT WITHIN THE FINAL DIMENSION OF AN OPENING OR REMOVAL AREA, OR AS NOTED IN REFERENCE DETAILS.
6. PROVIDE BRACING OF ADJACENT SLABS AND WALLS AS REQUIRED WHERE REMOVAL WILL TEMPORARILY REMOVE SUPPORT OR CHANGE LOAD PATH FOR EXISTING BUILDING GRAVITY LOAD AND LATERAL EARTH PRESSURES. BRACING AND SHORING TO BE DESIGNED BY CONTRACTOR'S PE, LICENSED IN THE STATE OF NY.
7. SEE ARCHITECTURAL DRAWINGS FOR SLAB OPENINGS, WALL OPENINGS, DIMENSIONS, AND THE LIKE. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
8. LOCATE OPENINGS THROUGH EXISTING FLOOR AND WALLS TO CLEAR EXISTING STRUCTURAL FRAMING. COORDINATE FINAL OPENINGS WITH ARCHITECT, AND MECHANICAL ENGINEER. SUBMIT ALL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS FOR REVIEW AND ACCEPTANCE BY STRUCTURAL ENGINEER.
9. ▨ INDICATES PORTIONS OF EXISTING STRUCTURE TO BE REMOVED

REFERENCE NOTES:

A. WORK REQUIRES STRUCTURAL STABILITY SPECIAL INSPECTION.

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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



REVISIONS:

NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum #1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

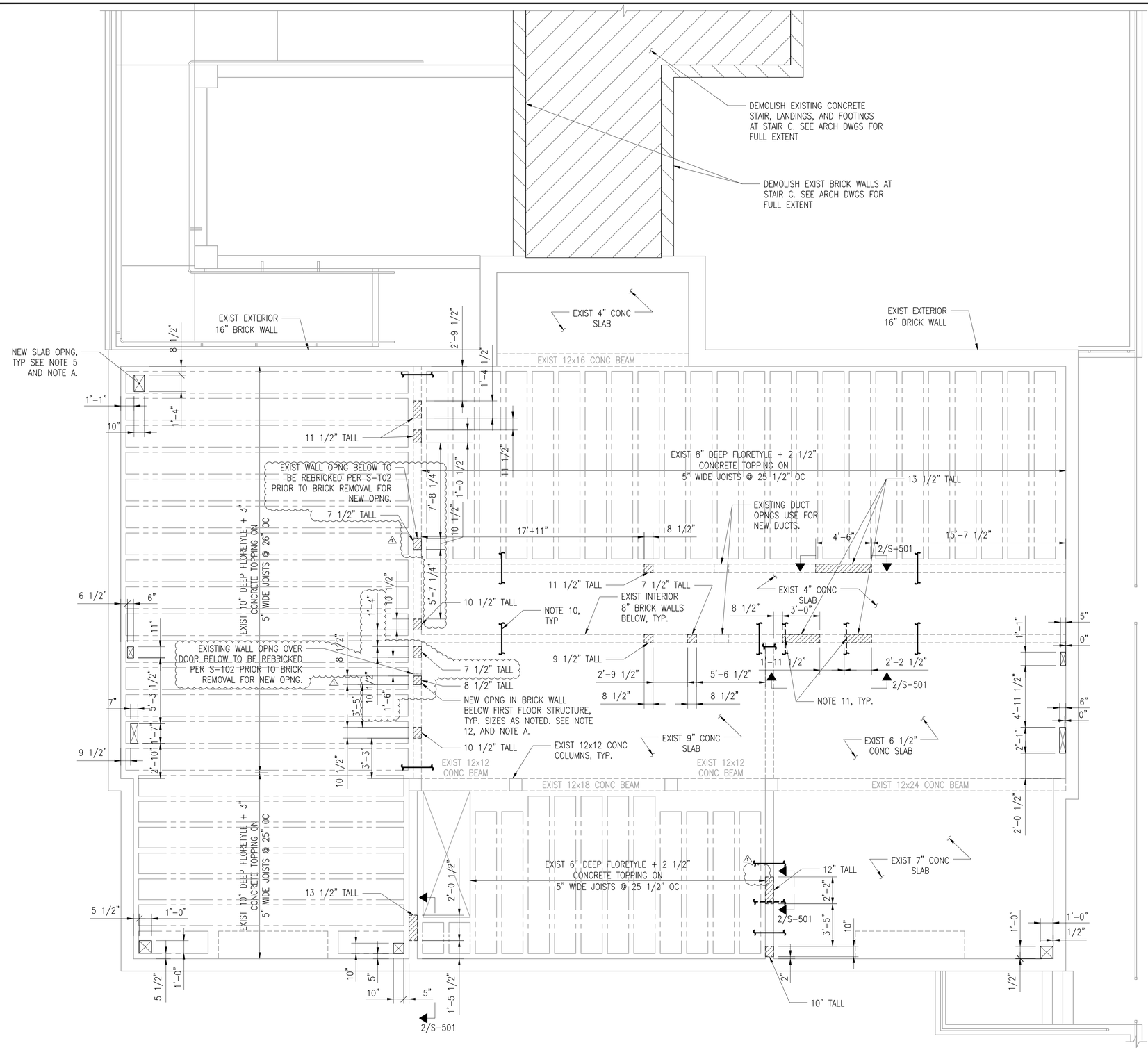
PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
BASEMENT DEMOLITION PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · BENJAMIN M. CORNELIUS · 076812 · LICENSED PROFESSIONAL ENGINEER

DATE:	07.17.2026
PROJECT NO:	P1864
DRAWN BY:	LERA
CHECKED BY:	LERA
DRAWING NUMBER:	DMS-101.00
CADO FILE No:	5 OF 13



1 DEMO FIRST FLOOR PLAN

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

NOTES:

1. REFER TO:
   S-00X SERIES DRAWINGS FOR GENERAL NOTES, DESIGN CRITERIA AND ABBREVIATIONS
   DMS-10X SERIES DRAWINGS FOR DEMOLITION PLANS
   S-1XX SERIES DRAWINGS FOR PLANS
   S-3XX SERIES DRAWINGS FOR PART PLANS AND SECTIONS
   S-4XX SERIES DRAWINGS FOR TYPICAL DETAILS
   S-5XX SERIES DRAWINGS FOR SECTIONS AND DETAILS
2. TOP OF FIRST FLOOR CONCRETE SLAB IS AT REFERENCE ELEVATION +58.75'. SEE ARCHITECTURAL PLANS FOR VARIATIONS IN FLOOR ELEVATION.
3. LOCATION AND EXTENT OF EXISTING STRUCTURE INCLUDING FOUNDATIONS, WALLS, SLABS, COLUMNS, AND BEAMS, AND STRUCTURAL GRIDS, ARE BASED ON LIMITED INFORMATION FROM EXISTING DRAWINGS AND SITE OBSERVATIONS, WHICH MAY NOT ACCOUNT FOR ALL FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL CONDITIONS IN THE FIELD DURING CONSTRUCTION.
4. EXISTING CONSTRUCTION AND ARCHITECTURAL BACKGROUND INFORMATION IS SHOWN FADED AND IS PROVIDED FOR REFERENCE ONLY. SEE ORIGINAL ARCHITECTURAL DRAWINGS, EXISTING STRUCTURAL DRAWINGS, AND THE LIKE FOR EXISTING CONSTRUCTION INFORMATION AND VERIFY ALL PERTINENT CONDITIONS IN THE FIELD. SEE ARCHITECTURAL DRAWINGS AND SPECS FOR ARCHITECTURAL INFORMATION.
5. FOR FLOOR OPENINGS, SAWCUT 1/2" DEEP AT PERIMETER OF SLAB AREA TO BE REMOVED AND CHIP AND REMOVE CONCRETE WITHIN SAWCUT PERIMETER. DO NOT DAMAGE OR REMOVE EXISTING REINFORCING BARS EXCEPT WITHIN THE FINAL DIMENSION OF AN OPENING OR REMOVAL AREA, OR AS NOTED IN REFERENCE DETAILS.
6. PROVIDE BRACING OF ADJACENT SLABS AND WALLS AS REQUIRED WHERE REMOVAL WILL TEMPORARILY REMOVE SUPPORT OR CHANGE LOAD PATH FOR EXISTING BUILDING GRAVITY LOAD AND LATERAL EARTH PRESSURES. BRACING AND SHORING TO BE DESIGNED BY CONTRACTOR'S PE, LICENSED IN THE STATE OF NY.
7. SEE ARCHITECTURAL DRAWINGS FOR SLAB OPENINGS, WALL OPENINGS, DIMENSIONS, AND THE LIKE. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
8. LOCATE OPENINGS THROUGH EXISTING FLOOR AND WALLS TO CLEAR EXISTING STRUCTURAL FRAMING. COORDINATE FINAL OPENINGS WITH ARCHITECT, AND MECHANICAL ENGINEER. SUBMIT ALL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS FOR REVIEW AND ACCEPTANCE BY STRUCTURAL ENGINEER.
9. ▨ INDICATES PORTIONS OF EXISTING STRUCTURE TO BE REMOVED
10. ——— INDICATES APPROXIMATE LOCATION OF SINGLE OR GROUP OF 1.5" Ø CORED OPENINGS FOR PLUMBING LINES. SEE MEP DRAWINGS FOR MORE INFORMATION. GROUPS OF CORES MUST BE WITHIN A SINGLE 8" LENGTH OF THE WALL, MUST BE MORE THAN 12" AWAY FROM ADJACENT WALL OPENINGS, AND MUST BE ABOVE BOTTOM OF ADJACENT WALL OPENINGS.
11. ——— INDICATES APPROXIMATE LOCATION OF SINGLE OR GROUP OF PLUMBING LINES TO ROUTE THROUGH NEW DUCT OPENING. SEE MEP DRAWINGS FOR MORE INFORMATION.
12. NEW OPENINGS IN BASEMENT BRICK BEARING WALLS FOR ROUTING OF DUCTWORK AND PLUMBING TO OCCUR BELOW FIRST FLOOR STRUCTURE AND ABOVE DOOR OPENINGS ON BASEMENT LEVEL BELOW. WALL OPENING DIMENSIONS ARE SHOWN IN PLAN. WHERE REQUIRED PER S-102, INSTALL LINTELS PER 2/S-501, PRIOR TO WALL DEMOLITION. AS SHOWN IN PLAN, OPENINGS WITHOUT LINTELS MUST BE LOCATED BETWEEN CONCRETE JOISTS OF FIRST FLOOR STRUCTURE ABOVE SO AS NOT TO AFFECT BEARING CONDITIONS OF THE JOISTS.

REFERENCE NOTES:

A. WORK REQUIRES STRUCTURAL STABILITY SPECIAL INSPECTION.

DOB APPROVAL STAMP

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EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

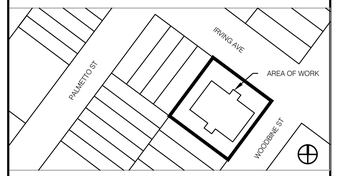
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LANDSCAPE ARCHITECT:
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KEY PLAN:



REVISIONS:

NUMBER	DESCRIPTION	DATE
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1	Addendum #1	07-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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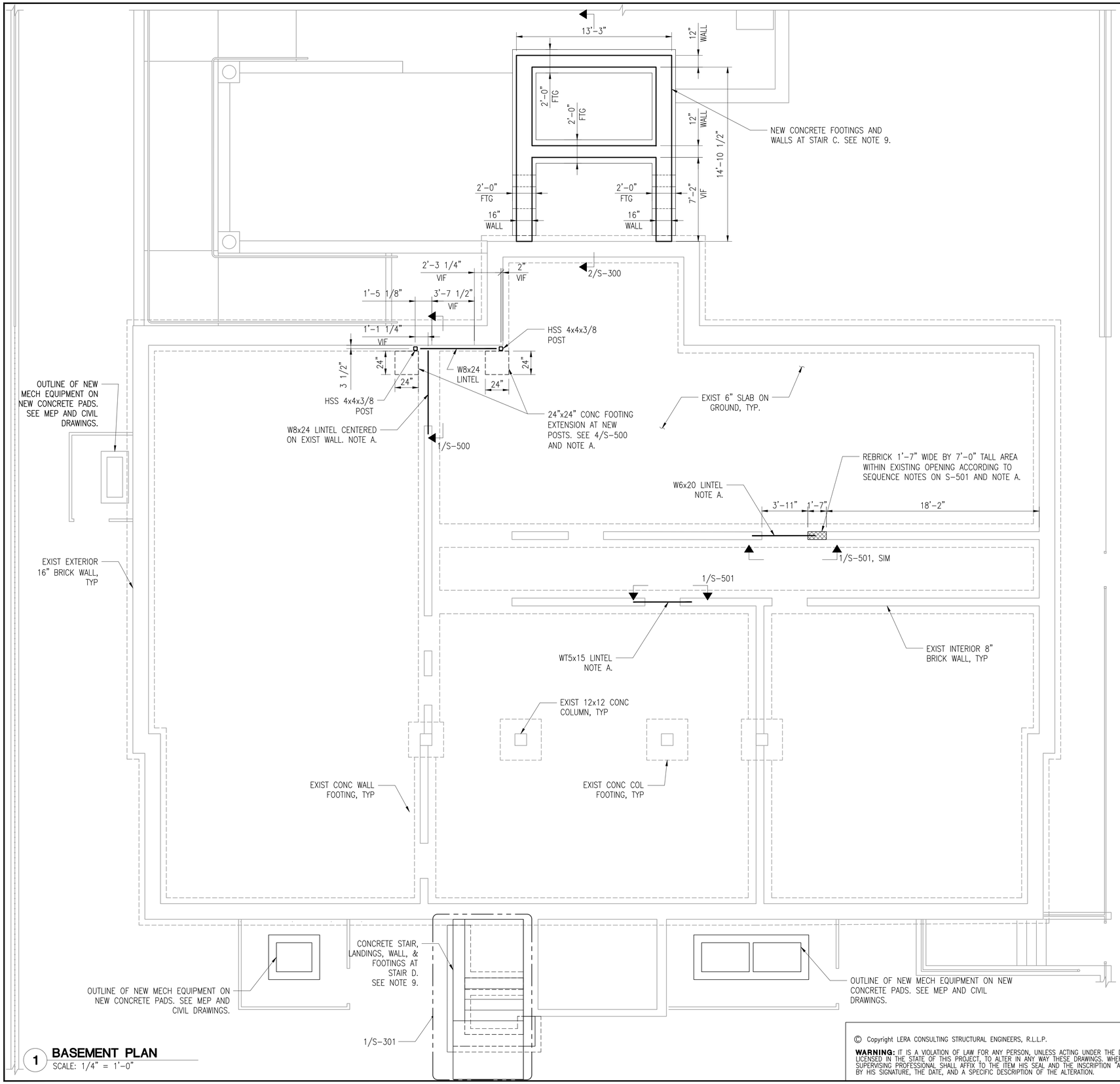
PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
FIRST FLOOR DEMOLITION PLAN

SEAL & SIGNATURE:



DATE:	07.17.2026
PROJECT NO:	P1864
DRAWN BY:	LERA
CHECKED BY:	LERA
DRAWING NUMBER:	DMS-102.00
CADO FILE No:	6 OF 13



1 **BASEMENT PLAN**
SCALE: 1/4" = 1'-0"

NOTES:

1. REFER TO:
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   S-3XX SERIES DRAWINGS FOR PART PLANS AND SECTIONS
   S-4XX SERIES DRAWINGS FOR TYPICAL DETAILS
   S-5XX SERIES DRAWINGS FOR SECTIONS AND DETAILS
2. TOP OF BASEMENT LEVEL CONCRETE SLAB IS AT REFERENCE ELEVATION +48.39'. SEE ARCHITECTURAL PLANS FOR VARIATIONS IN FLOOR ELEVATION.
3. LOCATION AND EXTENT OF EXISTING STRUCTURE INCLUDING FOUNDATIONS, WALLS, SLABS, COLUMNS, AND BEAMS, AND STRUCTURAL GRIDS, ARE BASED ON LIMITED INFORMATION FROM EXISTING DRAWINGS AND SITE OBSERVATIONS, WHICH MAY NOT ACCOUNT FOR ALL FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL CONDITIONS IN THE FIELD DURING CONSTRUCTION.
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6. CONCRETE IS F'C=5000 PSI, NORMAL WEIGHT, UON,
7. STRUCTURAL STEEL TO BE FY50 UON.
8. ▨ INDICATES BRICK INFILL OF EXISTING WALL OPENING.
9. NEW FOOTINGS TO BEAR ON CLASS 3B SOIL OR BETTER. SEE SECTION J ON S-003.

REFERENCE NOTES:

A. WORK REQUIRES STRUCTURAL STABILITY SPECIAL INSPECTION.

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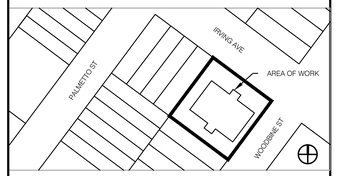
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ACOUSTICS/AV/IT:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
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KEY PLAN:



REVISIONS:

NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

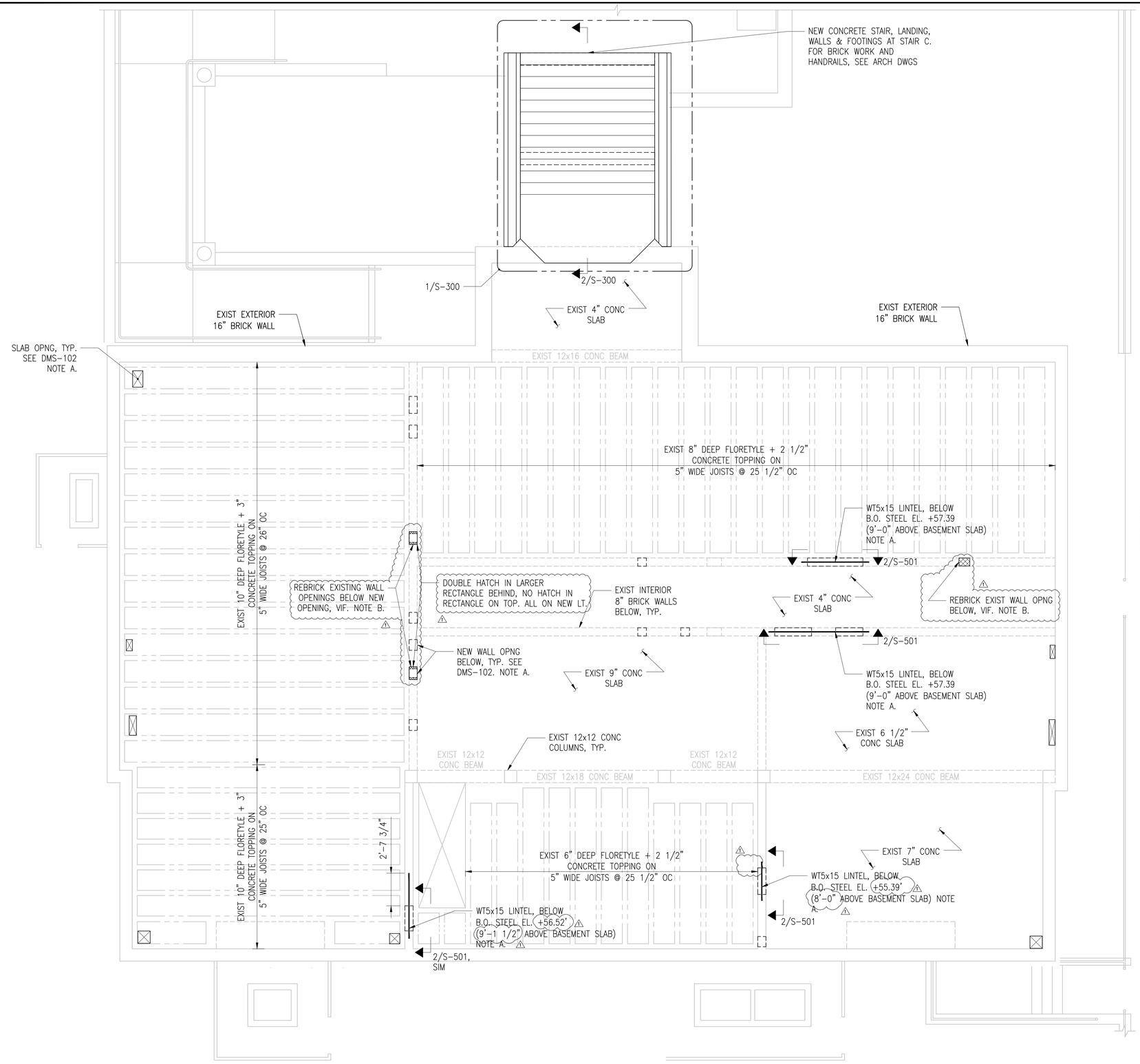
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
BASEMENT PLAN

SEAL & SIGNATURE:



DATE:	03.17.2026
PROJECT NO:	P1864
DRAWN BY:	LERA
CHECKED BY:	LERA
DRAWING NUMBER:	S-101.00
CADO FILE No:	7 OF 13



1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTES:

1. REFER TO:
   S-00X SERIES DRAWINGS FOR GENERAL NOTES, DESIGN CRITERIA AND ABBREVIATIONS
   DMS-10X SERIES DRAWINGS FOR DEMOLITION PLANS
   S-1XX SERIES DRAWINGS FOR PLANS
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6. CONCRETE IS F'C=5000 PSI, NORMAL WEIGHT, UON
7. STRUCTURAL STEEL TO BE FY50 UON.
8. INDICATES BRICK INFILL OF EXISTING WALL OPENING IN BASEMENT WALL BELOW FIRST FLOOR STRUCTURE. ⚠

REFERENCE NOTES:

A. WORK REQUIRES STRUCTURAL STABILITY SPECIAL INSPECTION.

B. ALL EXISTING WALL OPENINGS THAT ARE UNUSED IN THE WORK, AND EXTEND BELOW THE ELEVATION OF THE NEW CEILINGS, SHALL BE FULLY INFILLED WITH NEW BRICK AND MORTAR. SEE ARCH DRAWINGS FOR WALL FINISHES REQUIREMENTS ON NEW BRICK. ⚠

DOB APPROVAL STAMP

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MEP ENGINEER:
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EXTERIOR RESTORATION :
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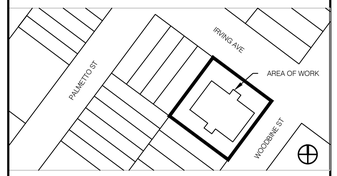
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ACOUSTICS/AV/IT:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



REVISIONS:

NUMBER	DESCRIPTION	DATE
	Issued for Bid	03-17-2026
1	Addendum #1	07-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
FIRST FLOOR FRAMING PLAN

SEAL & SIGNATURE:
STATE OF NEW YORK · BENJAMIN M. CORNELIUS · 076812 · LICENSED PROFESSIONAL ENGINEER

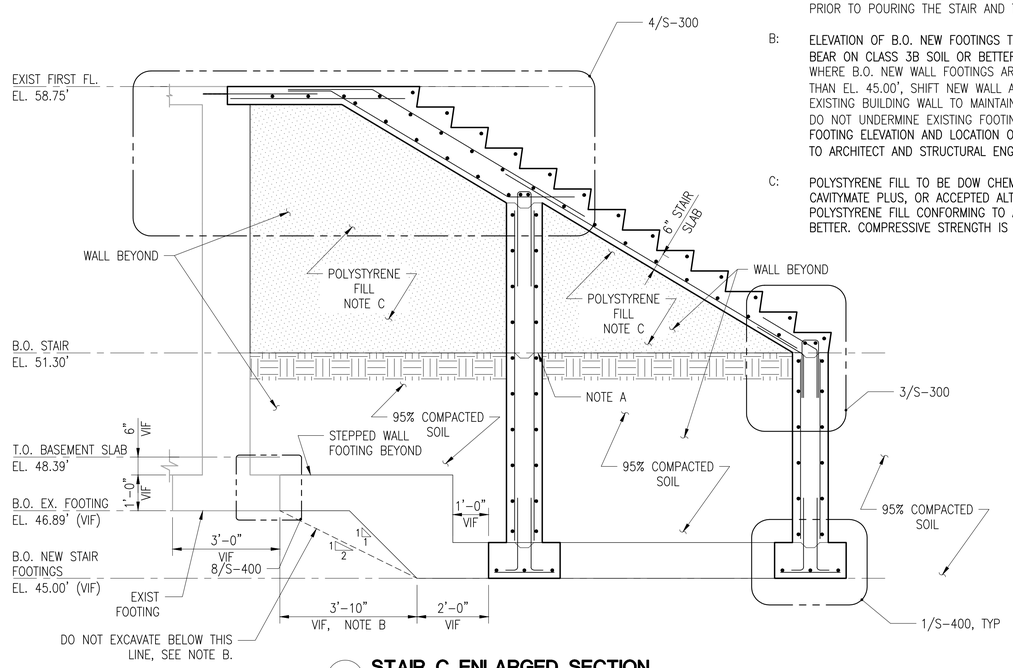
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CHECKED BY:	LERA
DRAWING NUMBER:	S-102.00
CADO FILE No:	

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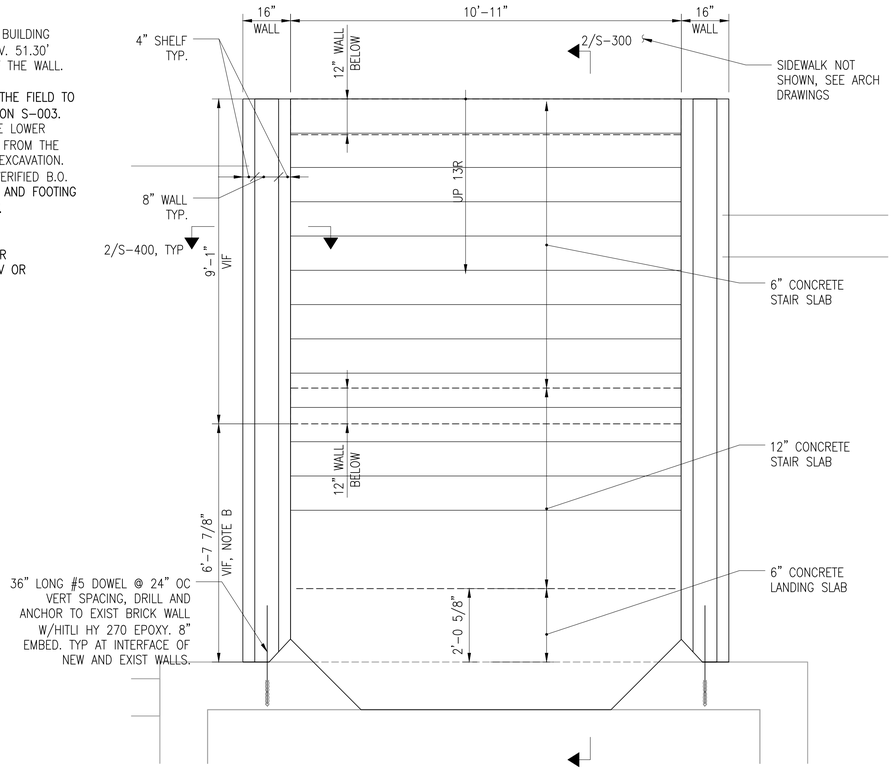
A: OPTIONALLY STOP POUR IN WALL CLOSER TO EXISTING BUILDING AT SHOWN KEY. COMPACT SOIL AT 95% TO GRADE ELEV. 51.30' PRIOR TO POURING THE STAIR AND THE REMAINDER OF THE WALL.

B: ELEVATION OF B.O. NEW FOOTINGS TO BE VERIFIED IN THE FIELD TO BEAR ON CLASS 3B SOIL OR BETTER. SEE SECTION J ON S-003. WHERE B.O. NEW WALL FOOTINGS ARE REQUIRED TO BE LOWER THAN EL. 45.00', SHIFT NEW WALL AND FOOTING AWAY FROM THE EXISTING BUILDING WALL TO MAINTAIN 2:1 SLOPE OF EXCAVATION. DO NOT UNDERMINE EXISTING FOOTINGS. SUBMIT THE VERIFIED B.O. FOOTING ELEVATION AND LOCATION OF THE STAIR WALL AND FOOTING TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.

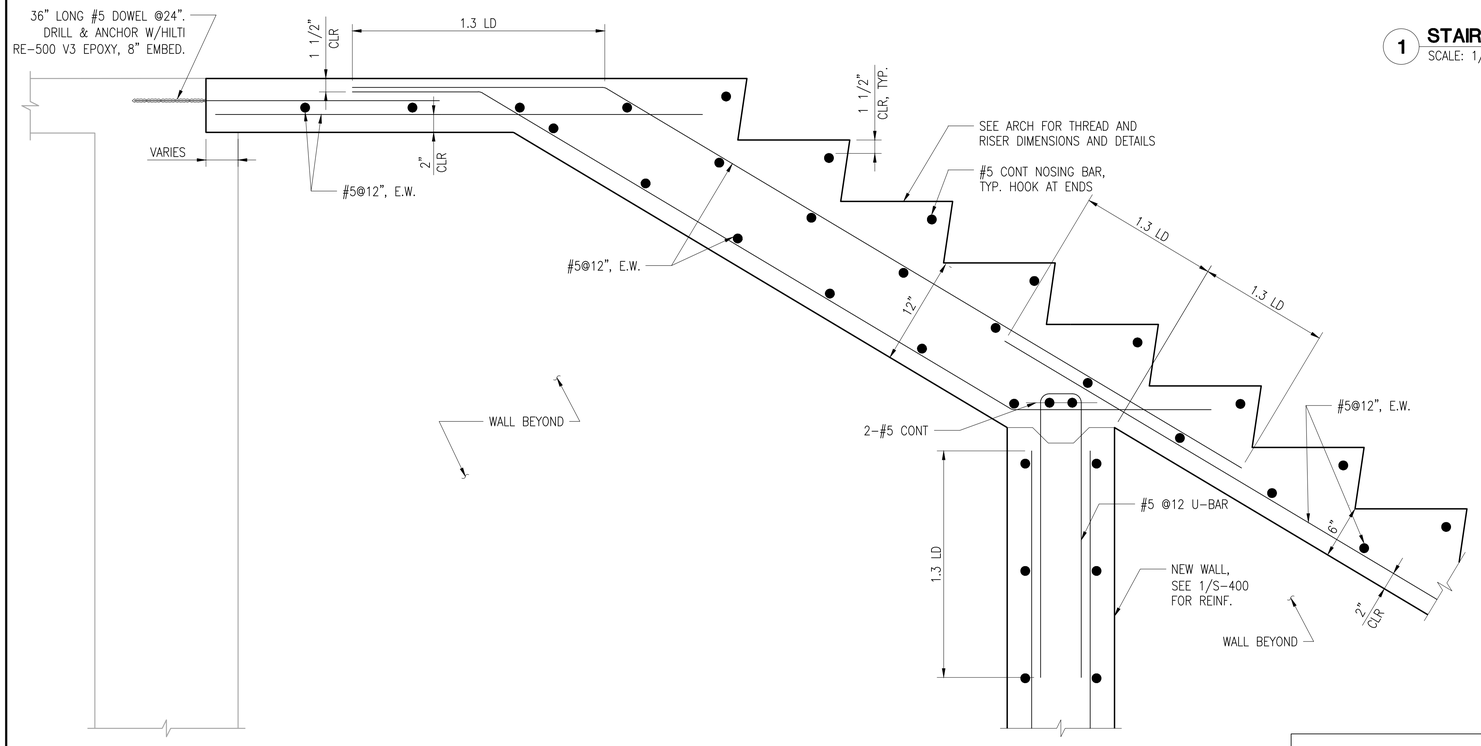
C: POLYSTYRENE FILL TO BE DOW CHEMICAL STYROFOAM CAVITYMATE PLUS, OR ACCEPTED ALTERNATIVE, CELLULAR POLYSTYRENE FILL CONFORMING TO ASTM C578 TYPE IV OR BETTER. COMPRESSIVE STRENGTH IS 25 PSI.



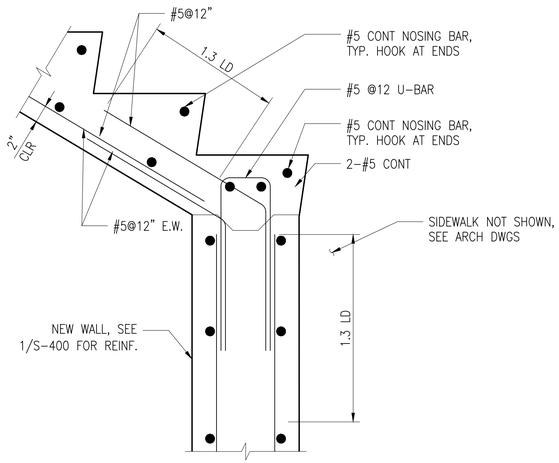
2 STAIR C ENLARGED SECTION
SCALE: 1/2" = 1'-0"



1 STAIR C ENLARGED PLAN
SCALE: 1/2" = 1'-0"



4 STAIR C FOUNDATION WALL SECTION
SCALE: 1 1/2" = 1'-0"



3 STAIR C FOUNDATION WALL SECTION
SCALE: 1 1/2" = 1'-0"

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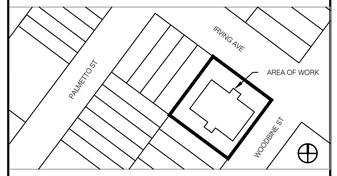
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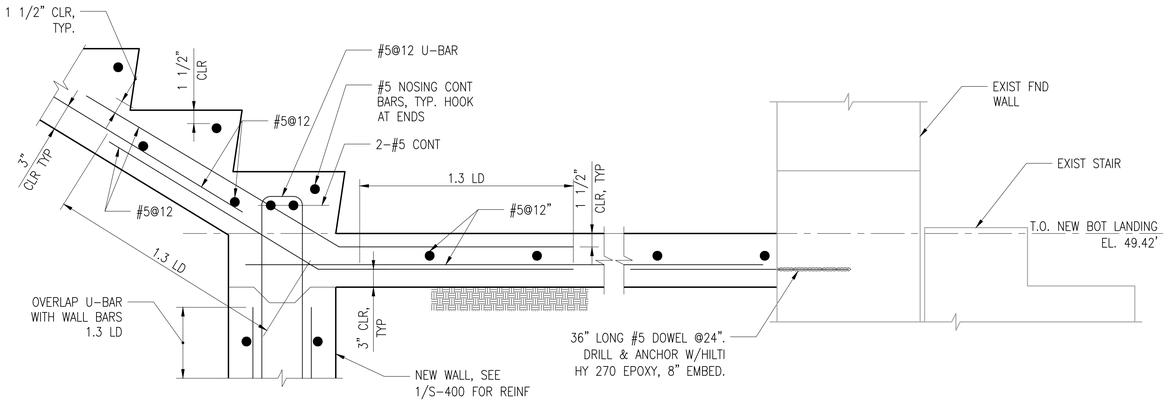
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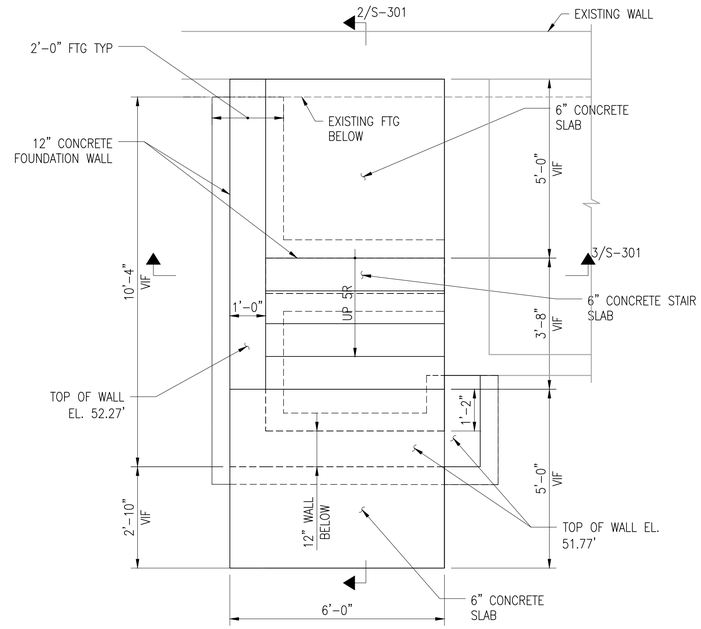
DRAWING TITLE:
STAIR C ENLARGED PLANS & DETAILS

SEAL & SIGNATURE:

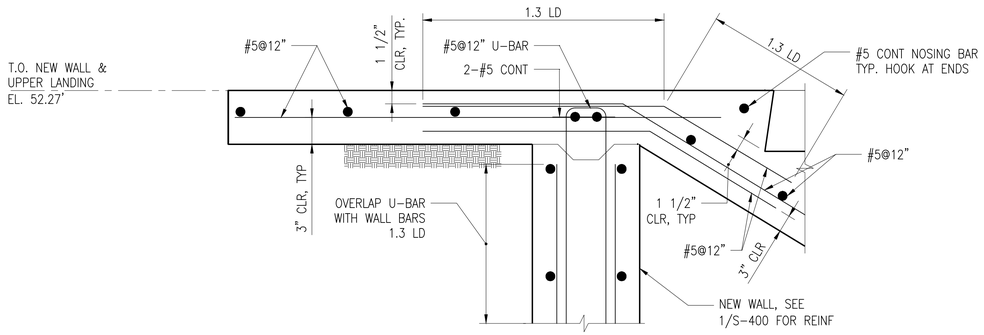
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DRAWING NUMBER:	S-300.00
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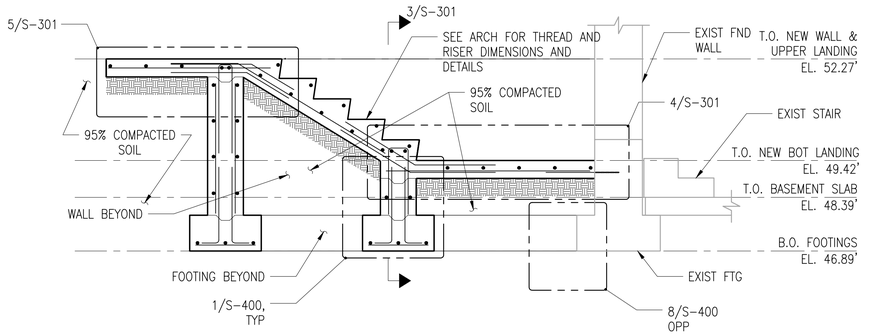
4 STAIR D FOUNDATION WALL SECTION
SCALE: 1 1/2" = 1'-0"



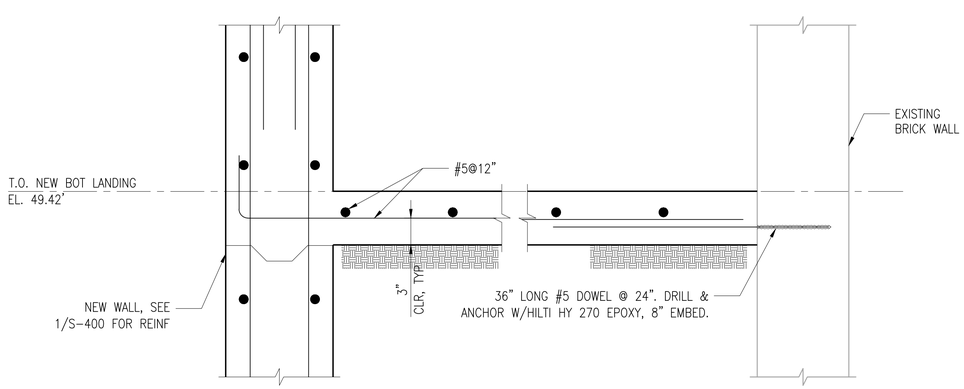
1 STAIR D ENLARGED PLAN
SCALE: 1/2" = 1'-0"



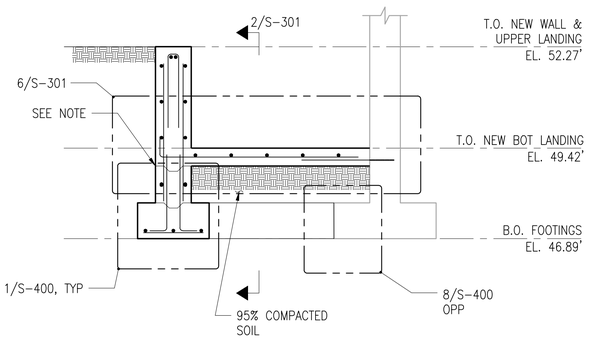
5 STAIR D FOUNDATION WALL SECTION
SCALE: 1 1/2" = 1'-0"



2 STAIR D ENLARGED SECTION
SCALE: 1/2" = 1'-0"



6 STAIR D FOUNDATION WALL SECTION
SCALE: 1 1/2" = 1'-0"



NOTE: OPTIONALLY STOP WALL POUR AT SHOWN KEY. COMPACT SOIL AT 95% TO GRADE ELEV. 48.92' PRIOR TO POURING THE STAIR AND THE REMAINDER OF THE WALL

3 STAIR D ENLARGED SECTION
SCALE: 1/2" = 1'-0"

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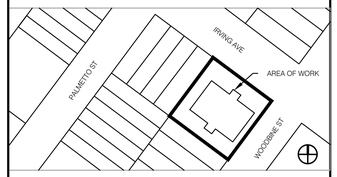
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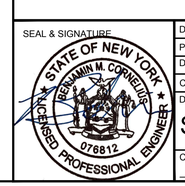
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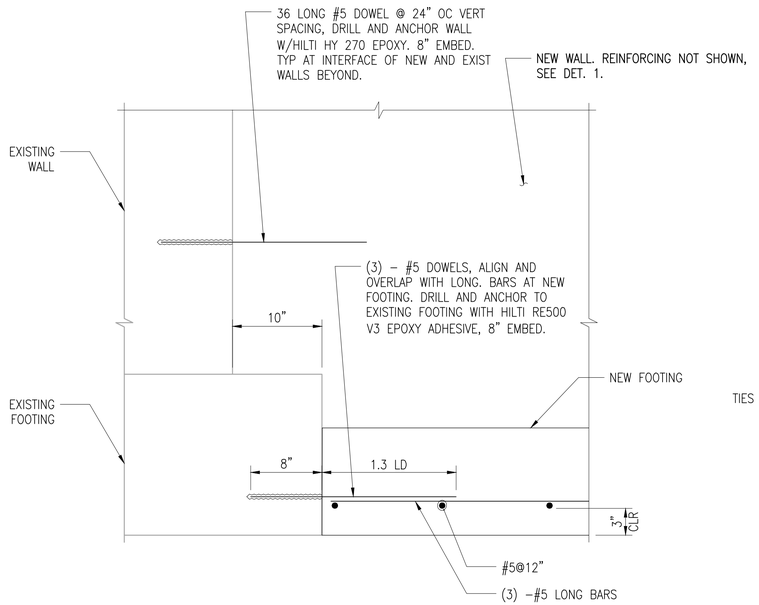
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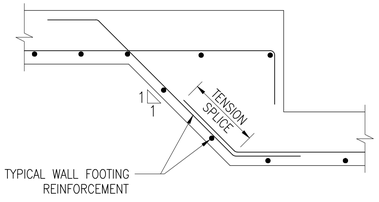
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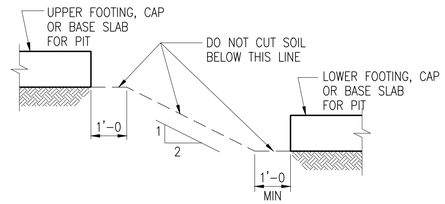
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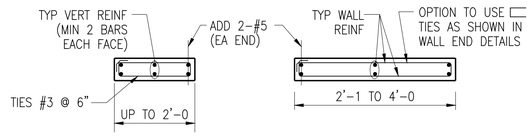
8 CONNECTION TO EXISTING FOOTING
SCALE: 1 1/2" = 1'–0"



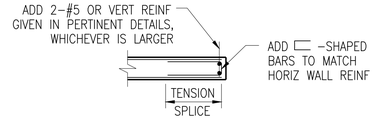
9 STEPPED WALL FOOTING
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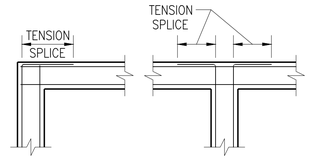
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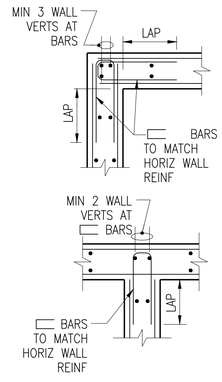
4 SMALL WALL SECTION
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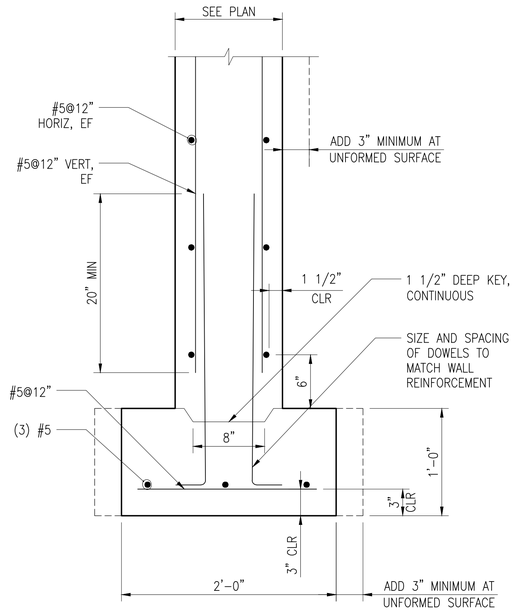
5 WALL ENDS
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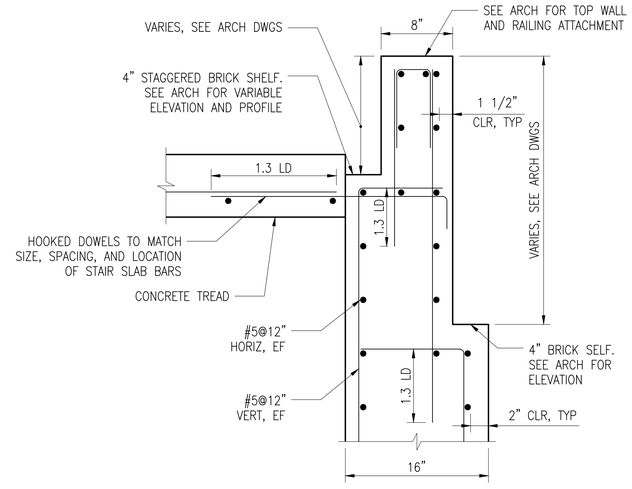
6 WALL FOOTING INTERSECTION
NTS



7 WALL INTERSECTIONS
NTS



1 TYPICAL FOOTING AND WALL DETAIL
SCALE: 1 1/2" = 1'–0"



2 STAIR C SIDE WALLS BRICK SHELVES
SCALE: 1 1/2" = 1'–0"

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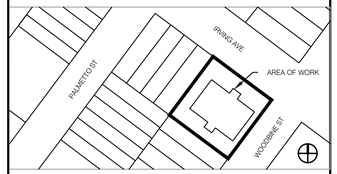
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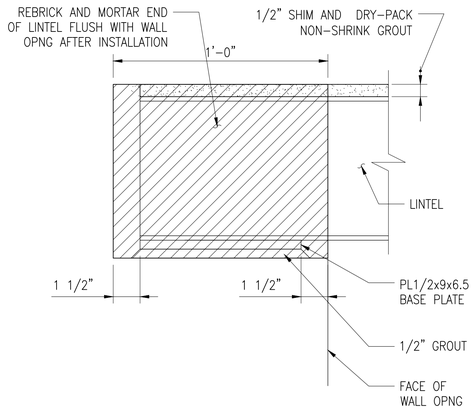
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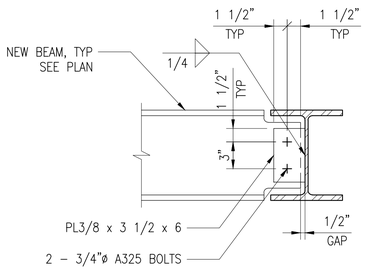
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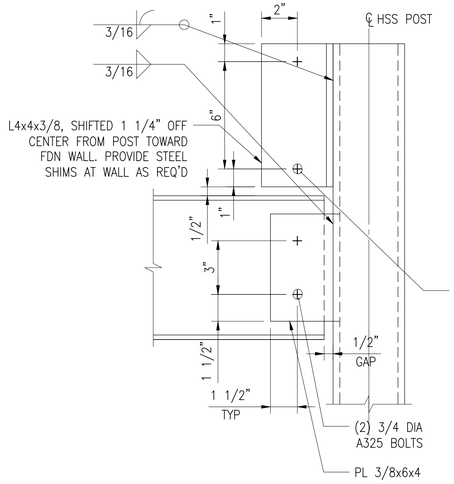
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5 LINTEL WALL CONNECTION
SCALE:3" = 1'-0"

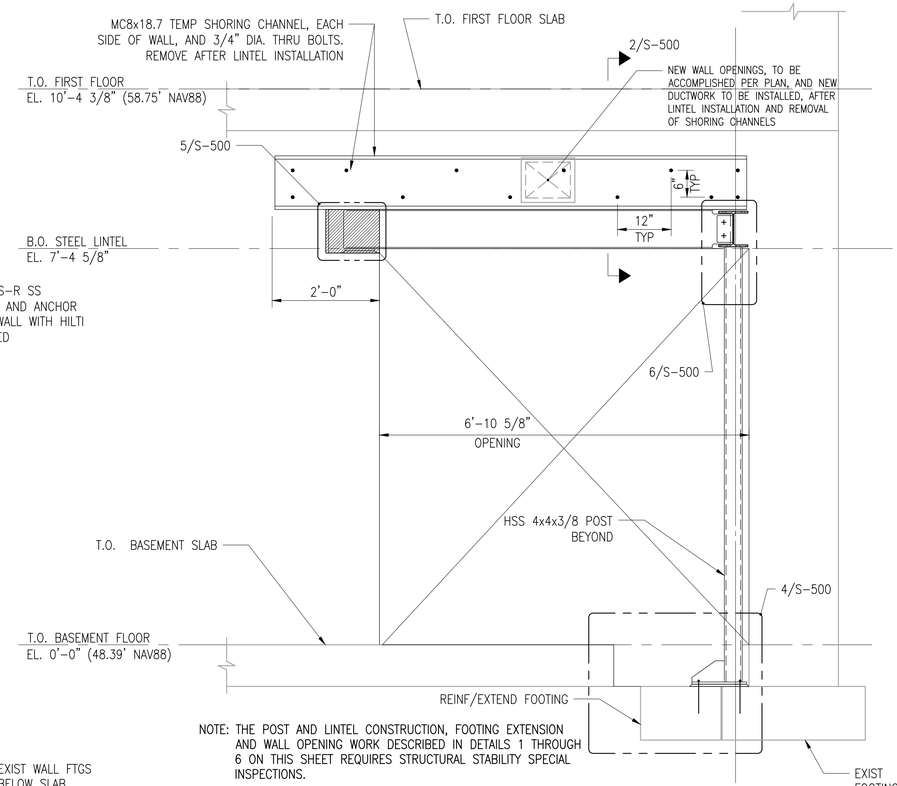


6 NEW BEAM-TO-NEW BEAM CONNECTION
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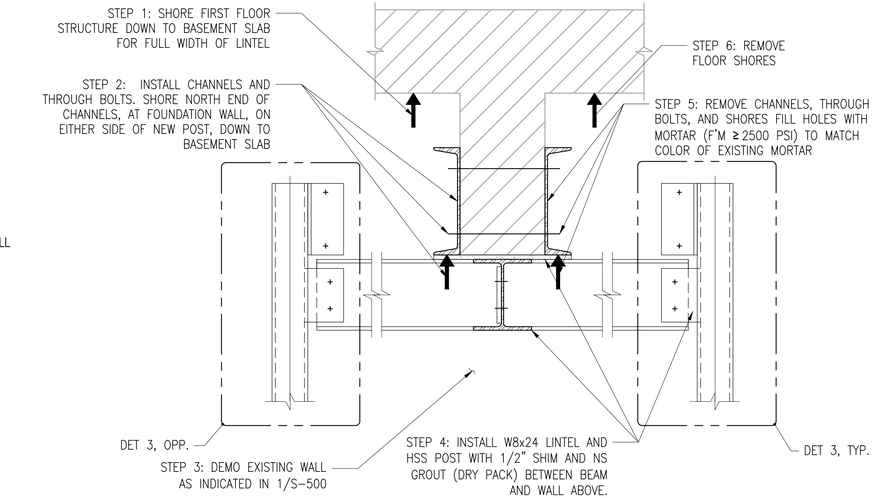
3 LINTEL TO POST CONNECTION
SCALE: 3" = 1'-0"

4 POST BASEPLATE ANCHORAGE
SCALE: 3" = 1'-0"



NOTE: THE POST AND LINTEL CONSTRUCTION, FOOTING EXTENSION AND WALL OPENING WORK DESCRIBED IN DETAILS 1 THROUGH 6 ON THIS SHEET REQUIRES STRUCTURAL STABILITY SPECIAL INSPECTIONS.

1 BASEMENT POST AND LINTEL CONSTRUCTION
SCALE: 3/4" = 1'-0"



NOTE: SHORING TO BE DESIGNED BY CONTRACTOR'S PE, LICENSED IN THE STATE OF NEW YORK AND SUBMITTED WITH CALCULATIONS FOR REVIEW.

2 BASEMENT POST AND LINTEL SEQUENCE
SCALE: 1 1/2" = 1'-0"

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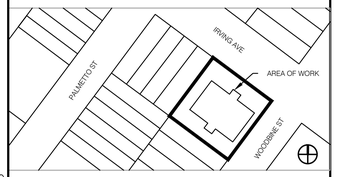
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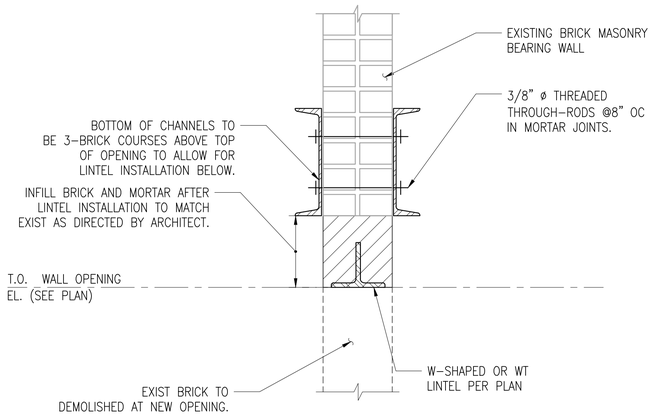
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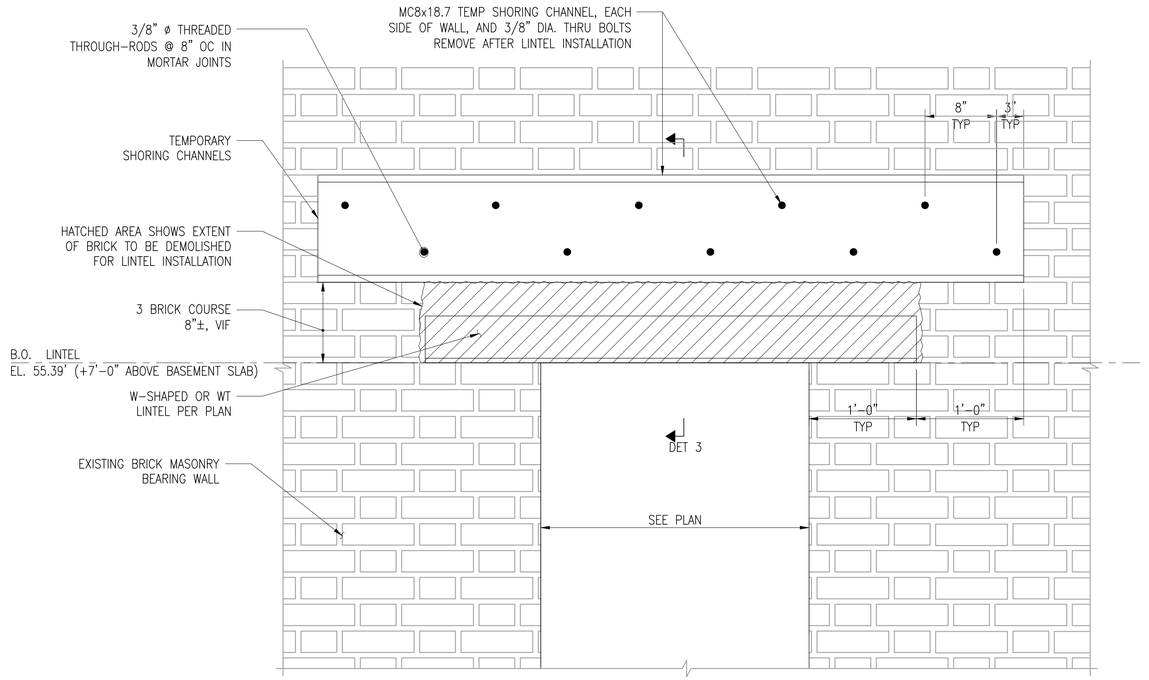
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NOTE: SEE LINTEL INSTALLATION SEQUENCE ON THIS SHEET

3 BASEMENT LINTEL
SCALE: 1 1/2" = 1'-0"



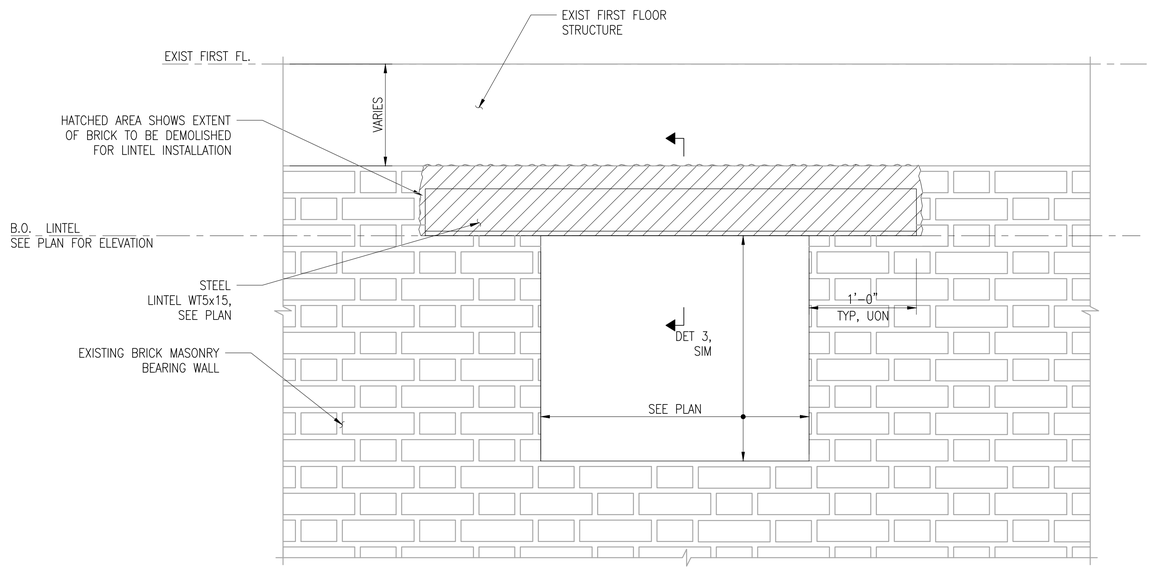
NOTE: SEE LINTEL INSTALLATION SEQUENCE ON THIS SHEET

1 LINTEL AT DOOR OPENING IN MASONRY WALL
SCALE: 1 1/2" = 1'-0"

LINTEL INSTALLATION SEQUENCE

1. SHORE EXIST FLOOR ABOVE LOCATION OF NEW WALL OPENING PRIOR ANY DEMOLITION WORK. FINAL SHORING DESIGN IS CONTRACTOR'S RESPONSIBILITY.
2. AT DOOR OPENINGS, INSTALL STEEL CHANNELS FOR BRICK SHORING ABOVE STEEL LINTELS. SEE PROVIDED DETAILS. WHERE REQUIRED, STEEL CHANNELS MUST EXTEND OVER EXISTING OPENINGS NEARBY TO BE REBRICKED.
3. SAW CUT AND DEMOLISH EXIST. BRICK IN HATCHED AREA SHOWN ABOVE NEW OPENING.
4. WHERE REQUIRED, REMOVE LINTEL OF EXISTING OPENING AND REBRICK EXISTING OPENING.
5. INSTALL LINTEL WT. INFILL BRICK AND MORTAR AROUND NEW LINTEL WT AFTER LINTEL WT ASSEMBLY IS SET AND ANCHORED IN PLACE.
6. SAW CUT AND DEMOLISH BRICK WALL TO ACHIEVE ROUGH OPENING DIMENSIONS PER ARCH DWGS. AS REQUIRED TO ACHIEVE FINAL EDGE CONDITIONS, SAW CUT TO REMOVE BRICKS AROUND EDGE OF ROUGH OPENING AND EITHER FIELD CUT AND REINSTALL OR REPLACE WITH NEW BRICKS AND MORTAR TO MATCH EXIST.
7. AFTER OPENING IS COMPLETED, REMOVE SHORING CHANNELS AND REPLACE MORTAR IN DRILLED HOLE JOINTS TO MATCH EXIST.

NOTE: ALL WORK ASSOCIATED WITH TEMPORARY SHORING, LINTELS, AND WALL OPENINGS DESCRIBED IN DETAILS 1 THROUGH 3 ON THIS SHEET REQUIRES STRUCTURAL STABILITY SPECIAL INSPECTIONS.



NOTE: SEE LINTEL INSTALLATION SEQUENCE ON THIS SHEET

2 LINTEL AT DUCT OPENING IN MASONRY WALL
SCALE: 1 1/2" = 1'-0"

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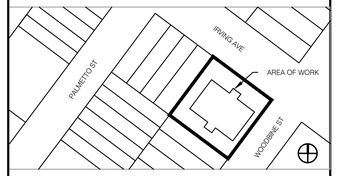
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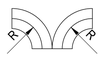
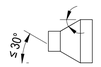
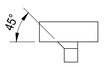
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DUCTWORK FITTING STANDARDS

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ACCEPTABLE	NOT ACCEPTABLE
 ROUND,FLAT,OVAL OR RECTANGULAR SMOOTH RADIUS ELBOWS W/ R/D ≥ 1.5	 ROUND,FLAT,OVAL OR RECTANGULAR MITEREDE ELBOWS (SUPPLY)
 ROUND,FLAT,OVAL OR RECTANGULAR SMOOTH RADIUS ELBOWS W/ R/D ≥ .75 WITH FULL RADIUS SPLITTER VANE	 ROUND,FLAT,OVAL OR RECTANGULAR SMOOTH RADIUS ELBOWS W/ R/D ≤ 1.5
 RECTANGULAR THROAT W/ RADIUS HEEL	 ROUND,FLAT,OVAL OR RECTANGULAR ELBOWS Z-SHAPED (SUPPLY ONLY)
 ROUND,FLAT,OVAL OR RECTANGULAR METERED ELBOWS W/ VANES	 RECTANGULAR WYE W/ OR W/OUT DIVIDER
 ROUND,FLAT,OVAL OR RECTANGULAR WYE W/ TURNING VANES W/ DIVIDER	 ROUND,FLAT,OVAL OR RECTANGULAR BELLMOUTH FITTINGS
 MITERED ELBOWS (TRANSFER DUCT ONLY)	 ROUND OR RECTANGULAR SPIN-IN-FITTINGS
 ROUND,FLAT,OVAL OR RECTANGULAR OFFSET W/ ANGLE ≤ 30°	 ROUND OR RECTANGULAR STRAIGHT TEES
 ROUND,FLAT,OVAL OR RECTANGULAR SMOOTH RADIUS ELBOWS W/ R/D ≥ 1.5	 ROUND,FLAT,OVAL OR RECTANGULAR DOUBLE TEE W/ BRANCH ANGLE ≤ 45°
 ROUND,FLAT,OVAL OR RECTANGULAR TRANSITION WYE ANGLE ≤ 30°	 MITERED OFFSET AROUND OBSTRUCTION
 TEE W/ 45° ENTRY BRANCH TO MAIN	
 ROUND,FLAT,OVAL OR RECTANGULAR CONICAL TEES	
 ROUND,FLAT,OVAL OR RECTANGULAR TEE WITH BRANCH ANGLE ≤ 45°	
 ROUND,FLAT,OVAL OR RECTANGULAR DOUBLE TEE W/ 45° ENTRY BRANCH TO MAIN	

MECHANICAL LINE-TYPES (ONE-LINE)

2" (R)	REMOVE PIPING (SIZE AS INDICATED)
2" (E)HHWR	EXISTING PIPING (SIZE AND SYSTEM AS INDICATED)
2" HHWS	HEATING HOT WATER SUPPLY PIPING (SIZE AS INDICATED)
2" HHWR	HEATING HOT WATER RETURN PIPING (SIZE AS INDICATED)
2" CD	CONDENSATE PIPING (SIZE AS INDICATED)
2" NG	NATURAL GAS PIPING (SIZE AS INDICATED)
2" RF (G)	REFRIGERANT GAS PIPING (SIZE AS INDICATED)
2" RF (L)	REFRIGERANT LIQUID PIPING (SIZE AS INDICATED)
12"x12" SA	SUPPLY AIR DUCTWORK (SIZE AS INDICATED)
12"x12" RA	RETURN AIR DUCTWORK (SIZE AS INDICATED)
12"x12" EA	EXHAUST AIR DUCTWORK (SIZE AS INDICATED)
12"x12" OA	OUTSIDE AIR DUCTWORK (SIZE AS INDICATED)
12"x12" TA	TRANSFER AIR DUCTWORK (SIZE AS INDICATED)

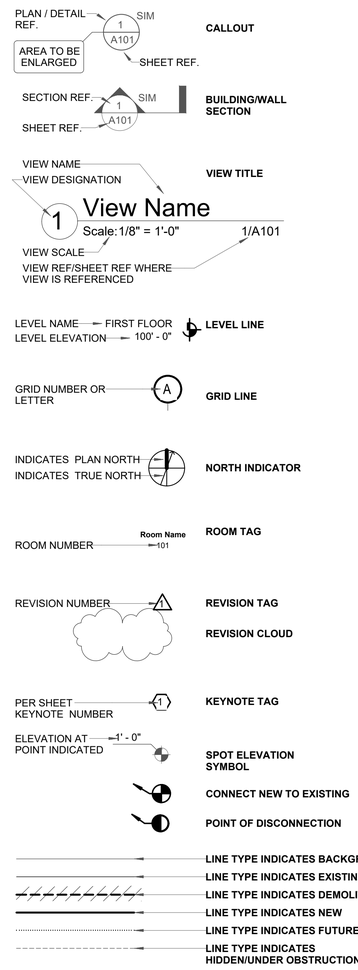
MECHANICAL LINE-TYPES (TWO-LINE)

12"x12" (R)	REMOVE DUCTWORK (SIZE AS INDICATED)
12"x12" (E)SA	EXISTING DUCTWORK (SIZE AS INDICATED)
12"x12" SA	SUPPLY AIR DUCTWORK (SIZE AS INDICATED)
12"x12" RA	RETURN AIR DUCTWORK (SIZE AS INDICATED)
12"x12" EA	EXHAUST AIR DUCTWORK (SIZE AS INDICATED)
12"x12" OA	OUTSIDE AIR DUCTWORK (SIZE AS INDICATED)
2"Ø FLUE	OUTSIDE AIR DUCTWORK (SIZE AS INDICATED)

PLAN CONTROL/SENSOR SYMBOLS

T	TEMPERATURE SENSOR (BMS)
T_C	TEMPERATURE SENSOR WITH WALL CONTROLLER AND DISPLAY (VRF)
TS	THERMOSTAT (STAND-ALONE)
H	HUMIDITY SENSOR (BMS)
CO2	CARBON DIOXIDE SENSOR (BMS)
REF	REFRIGERANT DETECTION SENSOR (STAND-ALONE)
	REFRIGERANT REMOTE ALARM HORN/STROBE
OCC	OCCUPANCY OVERRIDE PUSHBUTTON (BMS)
M	MOTORIZED DAMPER
FSD	FIRE/SMOKE DAMPER
FD	FIRE DAMPER
	MANUAL VOLUME/BALANCING DAMPER
S	DUCT SMOKE DETECTOR LOCATION (SEE FIRE ALARM DRAWINGS FOR DETAILS)

STANDARD DETAILING SYMBOLS



DRAWING LIST - MECHANICAL

M-001	MECHANICAL SYMBOLS & ABBREVIATIONS
M-002	MECHANICAL NOTES
M-003	MECHANICAL NOTES
MD-101	MECHANICAL - BASEMENT DEMOLITION PLAN
MD-102	MECHANICAL - FIRST FLOOR DEMOLITION PLAN
M-100	MECHANICAL - SITE PLAN
M-101	MECHANICAL - BASEMENT PLAN
M-102	MECHANICAL - FIRST FLOOR PLAN
M-301	MECHANICAL SECTIONS
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-503	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES
M-701	MECHANICAL AIR RISER DIAGRAM
M-702	MECHANICAL VRF SYSTEM DIAGRAMS
M-710	MECHANICAL CONTROLS DIAGRAMS
M-711	MECHANICAL CONTROLS DIAGRAMS
M-712	MECHANICAL POINTS LIST
M-713	MECHANICAL SEQUENCE OF OPERATION

TOTAL: 19

ABBREVIATIONS - MECHANICAL

THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

(D)	DEMOLISH
(E)	EXISTING
(R)	REMOVE
AC	AIR CONDITIONING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AF	AIRFLOW
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
ATC	AUTOMATIC TEMPERATURE CONTROL
ATV	ATMOSPHERIC VENT
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BBD	BOILER BLOWDOWN
BHP	BRAKE HORSEPOWER
BI	BINARY INPUT
BMS	BUILDING MANAGEMENT SYSTEM
BO	BINARY OUTPUT
BT	BUFFER TANK
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CF	CHEMICAL FEEDER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWP	CHILLED WATER PUMP
CO2, CD	CARBON DIOXIDE
CO, CM	CARBON MONOXIDE
CONT	CONTROLS, CONTINUED
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
Cv	VALVE COEFFICIENT
CWP	CONDENSER WATER PUMP
DB	DRY BULB
DBL	DOUBLE
DEG	DEGREE
DI	DIGITAL INPUT
DIA	DIAMETER
DMSS	DUCTLESS MINI-SPLIT SYSTEM
DN	DOWN
DO	DIGITAL OUTPUT
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DIFFERENTIAL PRESSURE (SENSOR)
DP	DEW POINT
DRE	DRYER EXHAUST
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
EF	EXHAUST FAN
EHC	ELECTRIC HEATING COIL
ELEC	ELECTRICAL
EMCS	ENVIRONMENTAL MANAGEMENT CONTROL SYSTEM
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETC	ETCETERA
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
F	DEGREES FAHRENHEIT
FD	FIRE DAMPER OR FLOOR DRAIN
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FP	FAN POWERED
FPM	FEET PER MINUTE
FPTD	FAN POWERED TERMINAL DEVICE
FS	FLOW SWITCH
FT	FOOT/FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
GUH	GAS FIRED UNIT HEATER
H	HUMIDIFIER OR HEIGHT
H2O	WATER
HD	HEAD
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AND AIR-CONDITIONING
HWT	HEATING WATER TEMPERATURE
HX	HEAT EXCHANGER
IN	INCH
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
M	MOTOR OR MOTORIZED DAMPER OR METER
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKEUP AIR UNIT
MBH	1,000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED OR NOISE CRITERIA
NO	NORMALLY OPEN OR NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
OD	OUTSIDE DIAMETER
OS	OCCUPANCY SENSOR
P	PRESSURE OR PRESSURE SENSOR
PD	PRESSURE DROP
PH	PHASE
PHC	PREHEAT COIL
PICV	PRESSURE INDEPENDENT CONTROL VALVE
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
QTY	QUANTITY
R	RADIUS, RISE, OR REMOVE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
REF	RELIEF AIR FAN
REF	REFRIGERANT
RF	RETURN AIR FAN

ABBREVIATIONS - MECHANICAL

THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

RH	RELATIVE HUMIDITY, REHEAT
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCH	SCHEDULE
SD	SMOKE DETECTOR
SEC	SECONDS
SF	SUPPLY FAN OR SQUARE FOOT
SF	SUPPLY AIR FAN
SP	STATIC PRESSURE
SS	SPLIT SYSTEM OR STAINLESS STEEL
T&P	TEMPERATURE AND PRESSURE
T, TEMP	TEMPERATURE
T-STAT	THERMOSTAT
TA	TRANSFER AIR
TON	COOLING TONS (12,000 BTUH)
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
V, VOLT	VOLTAGE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH OR WATTS
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
WSHP	WATER-SOURCE HEAT PUMP

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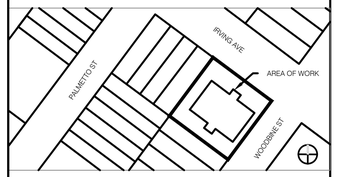
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STRUCTURAL ENGINEERS :
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ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

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NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-07-2026

NYC DDC **Department of Design and Construction**

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
MECHANICAL SYMBOLS AND ABBREVIATIONS

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	YK
CHECKED BY:	GM/AA
DRAWING NUMBER:	**M-001.00**
CADO FILE No:	

HVAC GENERAL NOTES

1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING HEATING, VENTILATING AND AIR CONDITIONING FOR THE PREMISES IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATION8 INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THIS CONTRACT, WORK SHALL CONSIST OF FURNISHING ALL ASPECTS NECESSARY FOR AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF FULLY FUNCTIONAL HVAC SYSTEMS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

2. IN ORDER TO DEFINE REQUIREMENTS FOR CAPACITY, QUALITY, FUNCTION, SIZE, GAUGES AND GRADES, THESE MATERIAL SPECIFICATIONS DESIGNATE MANUFACTURERS, BRANDS, AND OTHER PERTINENT DATA DESCRIBING PRODUCTS THAT CONFORM TO THIS PROJECT'S REQUIREMENTS, MATERIALS OR PRODUCTS SPECIFIED BY NAME OF MANUFACTURER, BRAND OR TRADE NAME OR CATALOG REFERENCE SHALL BE THE BASIS OF THE BID AND FURNISHED UNDER THIS CONTRACT. SHOULD THE CONTRACTOR WISH TO PROVIDE AN ALTERNATE PIECE OF EQUIPMENT HE SHALL BEAR ALL BURDEN OF RESPONSIBILITY GUARANTEEING SUBSTITUTE UNIT IS EQUAL IN ALL ASPECTS OF PERFORMANCE, DIMENSIONS ETC. WHERE TWO OR MORE MATERIALS OR PRODUCTS ARE NAMED, THE CHOICE OF THESE SHALL BE OPTIONAL WITH THE BIDDER, THE BIDDER SHALL SUBMIT HIS BID BASED ON THE MATERIAL AND PRODUCTS LISTED IN THIS SPECIFICATION.

3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY FOR THE INSTALLATION OF THE WORK AND FOR ALL CERTIFICATES OF INSPECTION AND APPROVAL REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. NO WORK IS TO PROCEED WITHOUT BUILDING DEPARTMENT PERMIT.

4. THE CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS INSTALLED BY HIM TO BE FREE FROM INHERENT DEFECTS, AND SHALL REPAIR OR REPLACE ANY DEFECTIVE MATERIALS OR WORKMANSHIP, FREE OF COST TO OWNER, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DAMAGE OR LOSS, EXCLUSIVE OF BUILDING CONTENTS DUE TO SUCH DEFECTS WILL ALSO BE MADE GOOD AT CONTRACTOR'S EXPENSE. DEFECTS WILL BE REMEDIED AND DAMAGES OR LOSSES WILL BE MADE GOOD WITHIN A REASONABLE TIME, AS SPECIFIED IN NOTICE BY THE OWNER.

5. THE CONTRACTOR SHALL MAINTAIN SUCH INSURANCE AS WILL PROTECT HIMSELF AND/OR THE OWNER FROM DIRECT, ASSUMED AND CONTINGENT LIABILITY FROM CLAIMS FOR DAMAGES, FOR PERSONAL INJURIES, INCLUDING DEATH, AND/OR DAMAGE TO PROPERTY, WHICH MAY ARISE FROM OPERATION UNDER HIS CONTRACT WHETHER SUCH OPERATIONS BE BY HIMSELF, OR ANY SUB-CONTRACTOR, OR ANYONE DIRECTLY EMPLOYED BY EITHER OF THEM.

6. ANY WORK PERFORMED WEEKDAYS BETWEEN THE HOURS OF 5:00 PM AND 7:00 AM, OR ON WEEKENDS, WILL REQUIRE THE PRESENCE OF THE PROPERTY OWNER'S MAINTENANCE PERSONNEL. THE CONTRACTOR WILL BE RESPONSIBLE TO REIMBURSE THE PROPERTY OWNER FOR THE COST OF SUCH MAINTENANCE COVERAGE DURING SUCH TIME PERIODS.

7. ANY LOSS OF, OR DAMAGE TO ANY EQUIPMENT, OR MATERIALS SUPPLIED BY THE CONTRACTOR, OR BY OWNER FOR INSTALLATION SHALL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR, UNTIL SUCH TIME AS COMPLETED JOB HAS BEEN APPROVED AND ACCEPTED BY THE OWNER. IF LOSS, OR DAMAGE SHOULD OCCUR NO CLAIM MAY BE MADE AGAINST THE OWNER, NOR SHALL COMPLETION DATES BE AFFECTED BY SUCH LOSS, OR DAMAGE.

8. CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS OF THE EQUIPMENT, DUCTWORK IN 3/8" SCALE, PIPING, TEMPERATURE CONTROLS AND PROVIDE CUTS OF COMPONENTS TO BE FURNISHED BY HIM. ALL ITEMS SHALL BE SUBMITTED THE ENGINEER FOR HIS APPROVAL. NO WORK SHALL PROCEED WITHOUT APPROVED SHOP DRAWINGS.

9. ALL AIR AND WATER SYSTEMS SHALL BE BALANCED AND CERTIFIED READINGS SHALL BE SUBMITTED FOR APPROVAL. THE CONTRACTOR SHALL ALLOW FOR A SECOND VISIT TO REBALANCE THE SYSTEM TO PROVIDE AIR QUANTITIES INDICATED ON DRAWINGS AND TO ADJUST AIR THROW ONCE SPACE IS OCCUPIED. THE WORK WILL NOT BE CONSIDERED COMPLETE WITHOUT APPROVED BALANCING REPORT. HOT AND CHILLED WATER SYSTEM SHALL BE BALANCED TO FLOW RATES INDICATED.

10. TEMPORARY WORK TO KEEP NORMAL BUILDING SERVICES IN OPERATION SHALL BE PART OF THIS CONTRACT. COORDINATE WITH BUILDING MANAGEMENT AND OBTAIN PERMISSION FOR ANY ALTERATIONS AFFECTING BUILDING. COORDINATE ALL BUILDING SHUTDOWNS AND RELOCATIONS OF EXISTING SYSTEMS WITH OWNER. DO NOT PROCEED WITH WORK AFFECTING BUILDING SYSTEMS AND OPERATION WITHOUT WRITTEN APPROVAL.

11. CONTRACTOR SHALL COORDINATE HIS WORK WITH ARCHITECT'S DRAWINGS, LIGHTING, AND WORK OF ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ADDITIONAL DUCTWORK TO MAINTAIN CEILING HEIGHTS AND AVOID WORK OF OTHER TRADES AND EXISTING CONDITIONS, AS PART OF HIS BASE BID.

12. CONTRACTOR SHALL FURNISH "AS BUILT" RECORD DRAWINGS AND OPERATING AND MAINTENANCE INSTRUCTIONS AT THE COMPLETION OF THE INSTALLATION.

    DRAWINGS SHALL SHOW:

    A. ALL NEW ELECTRICAL AND MECHANICAL WORK INSTALLED

    B. MODIFICATIONS AND ADDITIONS TO ORIGINAL DESIGN

    C. DIMENSIONAL INFORMATION NECESSARY TO LOCATE BURIED OR UNDERGROUND PIPING/UTILITIES

13. CONTRACTOR TO PROVIDE THE FOLLOWING: CUTTING, ROUGH PATCHING, FIRE AND OR SOUND SAFING OF ALL PENETRATIONS AS REQUIRED.

14. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A URETHANE SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.

15. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION. USING THE ROOFING CONTRACTOR ASSIGNED BY THE PROPERTY OWNER. ALL WORK TO CONFORM TO THE REQUIREMENTS NECESSARY TO MAINTAIN THE EXISTING ROOF WARRANTY.

16. DO NOT SCALE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

17. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURES EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT OR DEVICES. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

18. SUPPORTS FOR DUCT, FANS, VAV'S, PIPING ETC. SHALL BE DIRECTLY FROM BUILDING STRUCTURE, SUSPENDING ANY OF THE ABOVE FROM ONE ANOTHER IS PROHIBITED.

19. FIELD OBSERVATION OF EXISTING SYSTEM AND CONDITIONS WAS ATTAINED VIA LIMITED FIELD SURVEYS. ONLY SYSTEMS AND CONDITIONS CLEARLY VISIBLE AT THE TIME OF SURVEY ARE SHOWN. CONTRACTOR SHALL VERIFY EXACT LOCATION OF CONNECTION OF NEW WORK TO EXISTING.

20. CONTRACTOR TO PROVIDE PRIME AND FINISH PAINTING AS REQUIRED.

21. PROVIDE NAMEPLATES FOR EQUIPMENT, INSTRUMENTS, GAUGES, CONTROL SWITCHES, ETC. SEE SPECIFICATIONS FOR REQUIREMENTS.

22. CONDUCT SUCH TESTS AND ADJUSTMENT OF EQUIPMENT AS SPECIFIED, AS NECESSARY TO VERIFY PERFORMANCE REQUIREMENTS AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

23. WHEN CONFLICTS OCCUR IN THE SPECIFICATIONS OR ON THE DRAWINGS OR BETWEEN EITHER, PROVIDE THE ITEM OF GREATER QUANTITY OR HIGHER COST, UNLESS WRITTEN INSTRUCTIONS FROM THE OWNER OR ENGINEER ARE PROVIDED TO RESOLVE THE SPECIFIC CONFLICT.

GENERAL MECHANICAL DEMOLITION NOTES

1. THE DEMOLITION DRAWINGS SHALL BE CONSIDERED ONLY AS A GUIDE AND ARE NOT INTENDED TO SHOW EVERY SINGLE ITEM OF WORK REQUIRED. ACTUAL FIELD CONDITIONS WILL DETERMINE THE PRECISE WORK TO BE DONE. SHOULD ANY QUESTION ARISE AS TO WHETHER OR NOT ANY PIPING, DUCTWORK EQUIPMENT OR OTHER ITEM SHOULD BE REMOVED, OR REMAIN AS PRESENTLY INSTALLED, THE CONTRACTOR SHALL REQUEST, IN WRITING, CLARIFICATION FROM THE ENGINEER. SINCE THE MECHANICAL DRAWINGS INDICATE THE EXTENT OF THE SCOPE OF WORK, NO EXTRA CHARGES WILL BE ALLOWED FOR ANY REMOVALS NECESSARY FOR COMPLETION OF THE WORK UNDER THIS PROJECT.

2. CONTRACTOR SHALL DEMOLISH ALL DUCTWORK, PIPING, EQUIPMENT AND APPURTENANCES APPEARING SHOWN AS EXISTING TO BE REMOVED.

3. CONTRACTOR SHALL CAP ALL REMAINING PIPING/DUCTWORK AT ALL POINTS OF DISCONNECTION.

4. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND LAWFUL DISPOSAL OF ALL CONSTRUCTION DEBRIS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK, WITH ITS COMPLETION AND FINAL ACCEPTANCE, AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER.

6. BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED AREAS, THE CONTRACTOR SHALL APPLY TO THE OWNER UPON NO LESS THAN TWENTY FOUR (24) HOURS ADVANCED NOTICE FOR PERMISSION TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGED TO PERFORM HIS WORK ONLY AT THE TIME OR TIMES DESIGNATED BY THE OWNER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED AFTER HOURS OR ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL.

7. DEMOLITION AND OTHER WORK WHICH CREATES DIRT AND/OR DISTURBING NOISE, MUST BE PERFORMED AFTER 5 PM OR ON WEEKENDS IN COORDINATION WITH OWNER RESTRICTION. THE DELIVERY, HANDLING AND INSTALLING OF MATERIALS, EQUIPMENT AND DEBRIS REMOVALS MUST BE ARRANGED TO AVOID ANY INCONVENIENCE AND ANNOYANCE. CLEANING MUST BE CONTROLLED TO PREVENT DIRT AND DUST FROM INFILTRATING INTO ADJACENT AREAS. WELDING OR BURNING MUST BE PERFORMED ONLY DURING TIMES SPECIFICALLY APPROVED BY THE BUILDING MANAGER.

8. ALL ITEMS CALLED FOR REMOVAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE BY THE CONTRACTOR.

9. CONTRACTOR SHALL PATCH AND SEAL ALL PIPING PENETRATIONS, CAP PIPING AT ALL POINTS OF DISCONNECTION AND REMOVE REMAINDER OF UNUSED PIPING, UNLESS OTHERWISE NOTED.

10. RE-INSULATE ALL EXISTING TO REMAIN PIPING AND DUCTWORK IN WHICH INSULATION HAS BEEN REMOVED OR DAMAGED WITH INSULATION EQUAL TO THE EXISTING INSULATION.

11. HAZARDOUS MATERIAL ASBESTOS ABATEMENT SHALL BE DONE BY OTHERS.

SCOPE OF WORK

WORK UNDER THIS SECTION INCLUDES THE FURNISHING OF ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY FOR THE COMPLETE EXECUTION OF ALL HEATING, VENTILATION AND AIR CONDITIONING AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED. INSTALLATION SHALL BE IN CONFORMITY WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION: INCLUDING THE FOLLOWING:

A. SHEET METAL WORK
B. TEMPERATURE CONTROLS
C. INSULATION
D. STEEL SUPPORT AND HANGERS
E. TESTING, ADJUSTING, AND BALANCING
F. MISCELLANEOUS WORK
G. COORDINATION WITH OTHER TRADES
H. FIELD PAINTING
I. CLEANING, CUTTING, PATCHING, AND FLASHING
J. PROTECTION OF SPACES
K. REFRIGERANT PIPING
L. DUCTWORK
M. UNITARY DOAS
N. MULTI-ZONE HEAT PUMP SYSTEMS
O. FANS

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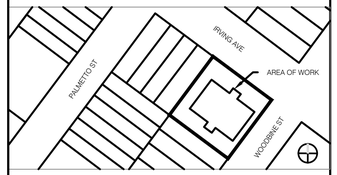
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STRUCTURAL ENGINEERS :
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LANDSCAPE ARCHITECT:
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

MECHANICAL NOTES

SEAL & SIGNATURE



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DRAWN BY:	YK
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CADO FILE No:	

NYC MECHANICAL SPECIAL INSPECTIONS ITEMS

THE FOLLOWING ITEMS ARE DESIGNATED FOR SPECIAL MECHANICAL INSPECTIONS IN ACCORDANCE WITH 2022 NYC BUILDING CODE SECTION 1704, 1705 AND THE 2022 NEW YORK CITY MECHANICAL CODE AS REGULATED UNDER 1 RCNY§101-06, AND 1 RCNY§5000-01

SPECIAL INSPECTIONS	CODE REFERENCE	REQUIRED INSPECTION
SMOKE CONTROL	BC 1705.18	
MECHANICAL SYSTEMS	BC 1705.21	●
FUEL STORAGE AND FUEL OIL PIPING SYSTEMS	BC 1705.22	
HIGH PRESSURE STEAM PIPING (WELDING)	BC 1705.23	
HIGH TEMPERATURE HOT WATER PIPING (WELDING)	BC 1705.23	
HIGH PRESSURE FUEL GAS PIPING (WELDING)	BC 1705.24	
MECHANICAL DEMOLITION	BC 1705.21	
HEATING SYSTEMS	BC 1705.31	
CHIMNEYS	BC 1705.32	
FIRE RESISTANT PENETRATIONS AND JOINTS	BC 1705.17	●
POST-INSTALLED ANCHORS	BC 1705.37	●
ENERGY CODE COMPLIANCE	BC 110.3.5	●
FINAL	BC 110.5, DIRECTIVE 14-1975	●

2020 NYC ENERGY CODE PROGRESS INSPECTIONS

THE FOLLOWING ITEMS ARE DESIGNATED FOR NYC ENERGY CODE PROGRESS INSPECTIONS IN ACCORDANCE WITH 2020 NYC ENERGY CONSRVATION CODE, 2022 NEW YORK CITY MECHANICAL CODE, AS REGULATED UNDER 1RCNY§5000-01

REQUIRED INSPECTIONS AND TESTS OF MATERIALS DESIGNATED FOR "ENERGY CODE PROGRESS INSPECTIONS" BY THE CONTRACTOR SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER RETAINED BY OR ON THE BEHALF OF THE OWNER WHO SHALL BE ACCEPTABLE TO THE ARCHITECT OR ENGINEER WHO SUPERVISED THE PREPARATION OF THE PLANS. CONTRACTOR SHALL VERIFY WITH OWNER THE EXTENT OF THE INSPECTIONS TO BE PROVIDED BY THE LICENSED ARCHITECT OR ENGINEER.

THE CONTRACTOR MUST NOTIFY THE ARCHITECT OR ENGINEER FOR SPECIAL INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES FOR THOSE REQUIRED TO BE PERFORMED BY ARCHITECT OR ENGINEER OF RECORD.

SPECIAL INSPECTIONS SHALL BE PERFORMED BY AGENCIES REGISTERED, CERTIFIED, AND/OR ACCREDITED BY NYC.

SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONTROL INSPECTION ITEMS.

NYECC COMPLIANCE STATEMENT "TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE."

SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NYC BUILDING CODE ARE LISTED IN THE FOLLOWING TABLE: NYC MECHANICAL SPECIAL INSPECTION ITEMS

PROGRESS INSPECTION(S) - COMMERCIAL BUILDINGS	TABLE REFERENCE 1RCNY §5000-01(h) (2)	REQUIRED INSPECTION
MECHANICAL AND SERVICE WATER HEATING INSPECTIONS	IIB	
FIREPLACES	(IIB1)	
SHUTOFF DAMPERS	(IIB2)	●
HVAC-R, COMMERCIAL KITCHEN EQUIPMENT, AND SERVICE WATER HEATING EQUIPMENT	(IIB3)	●
HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS	(IIB4)	●
HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION	(IIB5)	●
DUCT LEAKAGE TESTING, INSULATION AND DESIGN	(IIB6)	
MAINTENANCE INFORMATION	(IID1)	●

NEW YORK CITY BUILDING CODE NOTES

1. ALL MATERIAL DESIGNATED BY THE BUILDING CODE FOR SPECIAL INSPECTIONS SHALL BE INSPECTED AND/OR TESTED TO VERIFY COMPLIANCE WITH CODE REQUIREMENTS. SUCH INSPECTION AND/OR TESTING SHALL BE PERFORMED BY, OR UNDER THE SUPERVISION OF, A LICENSED ARCHITECT OR ENGINEER EMPLOYED BY THE OWNER. SIGNED COPIES OF SUCH INSPECTION AND/OR TEST REPORT SHALL BE FILED WITH THE BUILDING DEPARTMENT SHOWING COMPLIANCE WITH ALL REQUIREMENTS OF THE BUILDING CODE AS PER SECTION BC109.1 OF THE BUILDING CODE.
2. ALL REQUIRED VENTILATING AND REFRIGERATION SYSTEMS SHALL BE SUBJECT TO THE REQUIREMENTS FOR SPECIAL INSPECTIONS AS PER MC107 OF THE BUILDING CODE.
3. AN INSPECTION SHALL BE MADE OF THE COMPLETED SYSTEM TO VERIFY THAT THE INSTALLATION COMPLIES WITH THE REQUIREMENTS OF MC107. TEST SHALL BE CONDUCTED TO ASCERTAIN THAT THE AMOUNT OF AIR BEING SUPPLIED TO AND EXHAUSTED FROM EACH SPACE CONFORMS WITH REQUIREMENTS OF THE BUILDING CODE, AND THAT ALL REQUIRED SMOKE DETECTION AND FIRE PROTECTION DEVICES ARE FUNCTIONING PROPERLY.
4. A SIGNED STATEMENT SHALL BE OBTAINED FROM THE FIRE COMMISSIONER CERTIFYING ACCEPTANCE OF THE FIRE EXTINGUISHING SYSTEMS.
5. A STATEMENT SHALL BE FILED WITH THE COMMISSIONER BY THE OWNER THAT THE REQUIRED VENTILATING SYSTEMS WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE OCCUPANCY OF THE BUILDING.
6. A COMBINED SMOKE AND FIRE DAMPER OR INDEPENDENT SMOKE AND FIRE DAMPERS SHALL BE INSTALLED AT ANY PENETRATION OF CONSTRUCTION REQUIRED TO HAVE A FIRE-RESISTANCE RATING, EXCEPT AS PROVIDED IN MC607 OF THE BUILDING CODE.
7. THESE PLANS AGREE AS TO THE ARRANGEMENT OF ROOMS AND WINDOWS WITH THE LAYOUT OF THE ARCHITECTURAL PLANS FILED HEREWITH.
8. DURING HEATING AND COOLING SEASONS OUTSIDE AIR QUANTITIES SHALL BE AS REQUIRED BY CHAPTER 4 SECTION MC403 OF THE BUILDING CODE.
9. AIR HANDLING SYSTEMS OVER 2000 CFM CAPACITY SHALL HAVE DUCT MOUNTED SMOKE DETECTORS TO STOP BLOWERS AS REQUIRED IN MC606 OF THE BUILDING CODE.
10. ALL OVERHEAD REFRIGERANT PIPING IN EXPOSED LOCATIONS TO BE MOUNTED AT LEAST 7' 3" AFF. PROVIDE PROTECTIVE ENCLOSURES FOR ALL EXPOSED REFRIGERANT PIPING OUTSIDE OF MECHANICAL SPACES.

CODE COMPLIANCE & STANDARDS

ENTIRE INSTALLATION SHALL BE COMPLETE, READY FOR OPERATION IN ACCORDANCE WITH THE LOCAL CODES AND ALL OTHER RULES AND REGULATIONS PERTAINING TO THIS WORK, INCLUDING BUILDING CRITERIA. THIS WORK SHALL CONFORM TO THE FOLLOWING STANDARDS:

A. NEW YORK CITY MECHANICAL CODE (2022)*
B. NEW YORK CITY FUEL GAS CODE (2022)*
C. NEW YORK CITY ENERGY CONSERVATION CODE (2020)*
D. NEW YORK CITY FIRE CODE (2022)*
E. NEW YORK CITY BUILDING CODE (2022)*
F. UNDERWRITER'S LABORATORIES, INC. U.L.
G. NATIONAL FIRE CODES NFPA
H. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
I. SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMANCA)
J. AMCA
K. NATIONAL ELECTRICAL CODE (NEC)
L. ANSI/ASME
M. AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHRAE)
N. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

*ALL CODES INCLUDING ADDENDA

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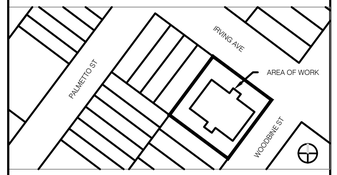
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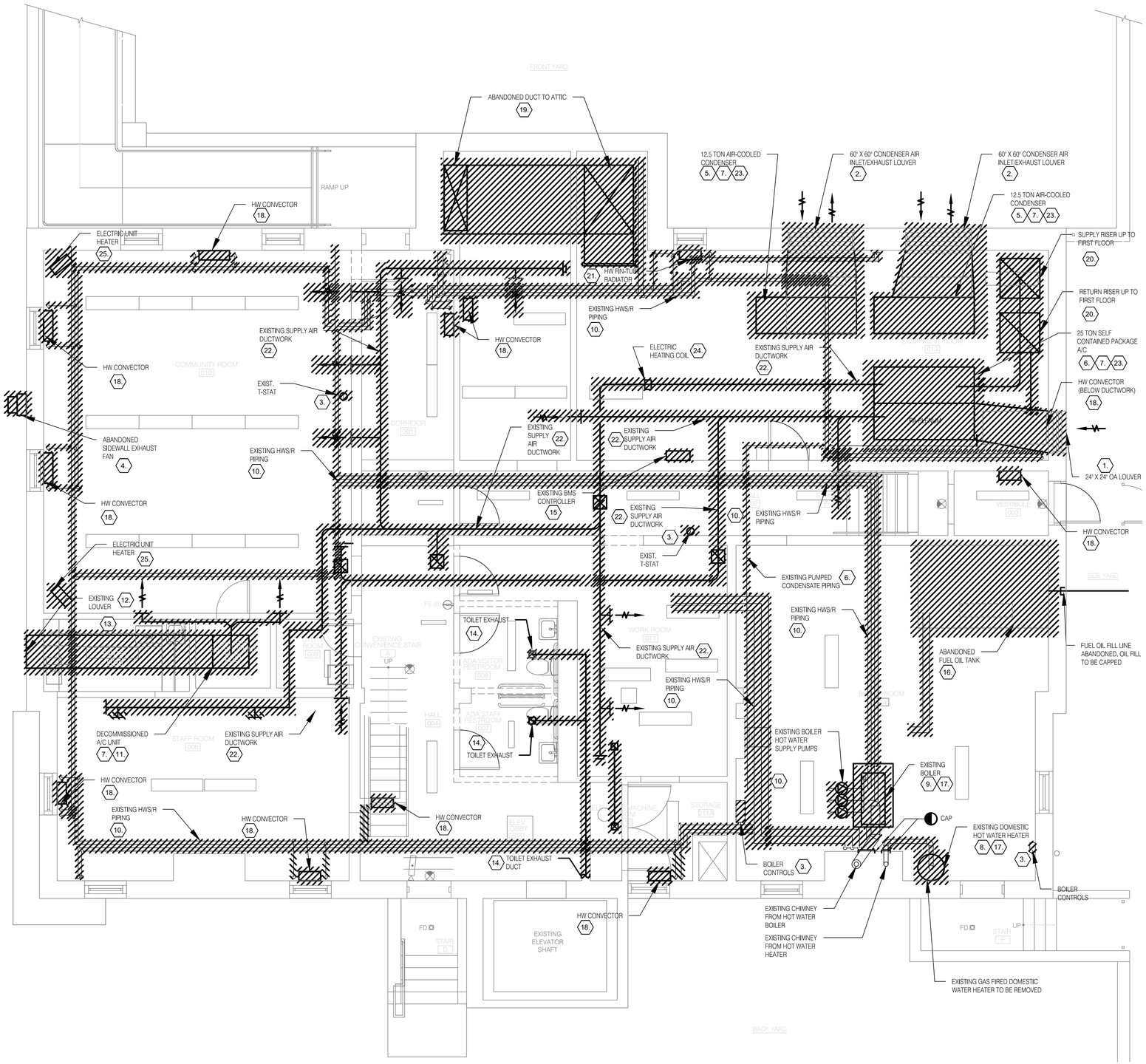
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
MECHANICAL NOTES

SEAL & SIGNATURE

STATE OF NEW YORK · GREGORY E. MURLIFF · 096569 · LICENSED PROFESSIONAL ENGINEER

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01 BASEMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMO KEYED NOTES:

1. EXISTING 24"X24" OUTDOOR AIR INTAKE LOUVER TO BE REMOVED. REFER TO ARCHITECTURE FACADE PLANS FOR DETAILS.
2. EXISTING LOUVER SERVING EXISTING AIR COOLED CONDENSER IN MECHANICAL ROOM TO BE REMOVED IN ITS ENTIRETY. EXISTING LOUVER SHALL BE REPLACED. REFER TO MECHANICAL NEW WORK PLANS AND ARCHITECTURAL FACADE PLANS. CONTRACTOR SHALL PREPARE OPENING FOR REPLACEMENT AND PROVIDE TEMPORARY PROTECTION OF SPACE DURING CONSTRUCTION AS NEEDED.
3. EXISTING HONEYWELL SPYDER BMS CONTROLLER TO TO BE RELOCATED TO MECHANICAL ROOM. REMOVE ALL ASSOCIATED SENSORS AND WIRING INCLUDING (3) SPACE MOUNTED ZONE THERMOSTATS AND PREPARE FOR CONNECTION TO NEW CONTROLS SYSTEM. REFER TO CONTROL DIAGRAM AND DRAWINGS FOR DETAILS FOR REMOVAL, RELOCATION AND CONNECTION OF NEW CONTROLS.
4. EXISTING WALL MOUNTED EXHAUST FAN AND ASSOCIATED EXTERIOR EXHAUST LOUVER TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED FRAMING, CONTROLS , ELECTRICAL POWER BACK TO SOURCE. EXISTING OPENING SHALL BE INFILLED AND SEALED. REFER TO ARCHITECTURAL FACADE DRAWINGS FOR DETAILS.
5. EXISTING 12.5 TON AIR COOLED CONDENSER TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED D DUCTWORK, ANGLE IRON SUPPORT STAND, CONTROLS, CONDENSATE, ELECTRICAL POWER BACK TO SOURCE.
6. EXISTING 25 TON SELF CONTAINED PACKAGED AC UNIT TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED DUCTWORK, ANGLE IRON SUPPORT STAND, CONTROLS, CONDENSATE, ELECTRICAL POWER BACK TO SOURCE.
7. ALL EXISTING REFRIGERANT SHALL BE EVACUATED AND DISPOSED OF IN ACCORDANCE WITH NYC MECHANICAL CODES, AND REQUIREMENTS BY LOCAL AUTHORITY.
8. EXISTING GAS FIRED DOMESTIC WATER HEATER TO BE REMOVED IN ITS ENTIRETY. ASSOCIATED REMOVE VENT BREECHING BACK TO CHIMNEY FLUE AND CAP. CONTRACTOR SHALL COORDINATE REMOVAL WITH PLUMBING CONTRACTOR. EXISTING NATURAL GAS PIPING SHALL BE DISCONNECTED
9. EXISTING GAS FIRED HOT WATER HEATING BOILER AND ASSOCIATED CIRCULATION PUMPS TO BE REMOVED IN ITS ENTIRETY. REMOVE VENT BREECHING BACK TO CHIMNEY FLUE AND CAP. CONTRACTOR SHALL REMOVE ALL ASSOCIATED CONTROLS, ELECTRICAL POWER BACK TO SOURCE.
10. ALL EXISTING HOT WATER HEATING SUPPLY AND RETURN PIPING TO BE REMOVED. REMOVE ALL ASSOCIATED PUMPS, FITTINGS, VALVES AND ACCESSORIES FROM HOT WATER BOILER.
11. EXISTING DECOMMISSIONED AC UNIT TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED DUCTWORK, CONTROLS AND ELECTRICAL POWER BACK TO SOURCE.
12. EXISTING OA AIR INTAKE LOUVER TO BE REMOVED IN ITS ENTIRETY. EXISTING OPENING SHALL BE INFILLED AND SEALED. REFER TO ARCHITECTURAL FACADE DRAWINGS FOR DETAILS.
13. EXISTING CEILING ABOVE KITCHEN PANTRY AREA TO BE REMOVED. ALL ASSOCIATED DUCTWORK ABOVE CEILING SHALL BE REMOVED. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING REMOVAL AND REPLACEMENT.
14. EXISTING TOILET EXHAUST DUCT SHALL BE REMOVED IN ITS ENTIRETY. EXHAUST DUCT SHALL BE REMOVED BACK TO EXHAUST FAN AND POINT OF TERMINATION OUTSIDE. CONTRACTOR SHALL VERIFY EXHAUST TOILET EXHAUST ROUTING IN FIELD PRIOR TO REMOVAL.
15. EXISTING BMS HONEYWELL JACE AND SPYDER CONTROLLERS LOCATED IN MECHANICAL ROOM IN ENCLOSURE TO BE REMOVED AND RELOCATED. DISCONNECT AND REMOVE ALL EXISTING SENSORS AND WIRING AND PREPARE CONTROLLERS FOR CONNECTION TO NEW CONTROLS SYSTEM. REFER TO CONTROL DIAGRAM AND DRAWINGS FOR DETAILS FOR REMOVAL AND RELOCATION AND CONNECTION OF NEW CONTROLS.
16. EXISTING FUEL OIL TANK AND ASSOCIATED PIPING TO BE REMOVED. PRIOR TO REMOVAL TANK SHALL BE COMPLETELY DRAINED. ANY EXISTING OIL SHALL BE DISPOSED OF IN ACCORDANCE WITH DEP/DEC REQUIREMENTS. FUEL OIL FILL LINES SHALL BE CUT BACK TO WALL CAPPED AND ABANDONED UNDER SIDEWALK. EXISTING SLAB SHALL BE REPAIRED AS REQUIRED. OIL TANK DECOMMISSIONING REQUIRES CHEMICAL TREATMENTS THE CLEANING OF THE EXISTING TANK.
17. EXISTING MECHANICAL HOUSE KEEPING PAD SHALL BE REMOVED. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS.
18. EXISTING HOT WATER CONVECTOR UNIT TO BE REMOVED IN ITS ENTIRETY. CUT BACK AND REMOVE ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING BACK TO SOURCE. REMOVE ALL ASSOCIATED VALVES AND CONTROLS.
19. EXISTING ABANDONED DUCT RISER TO ATTIC TO BE DEMOLISHED AND REMVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED DUCTWORK ACCESSORIES. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ANY ASSOCIATED PATCHWORK.
20. EXISTING SUPPLY AND RETURN AIR RISERS UP TO FIRST FLOOR TO BE REMOVED IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED DUCTWORK ACCESSORIES.REFER TO MECHANICAL NEW WORK PLANS, ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ANY ASSOCIATED PATCHWORK, AND NEW AIR SHAFT.
21. EXISTING HOT WATER RADIATOR TO BE REMOVED IN ITS ENTIRETY. CUT BACK AND REMOVE ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING BACK TO SOURCE. REMOVE ALL ASSOCIATED VALVES AND CONTROLS.
22. EXISTING SUPPLY AND RETURN AIR DUCTWORK MAIN TO BE REMOVED. CONTRACTOR SHALL INSPECT AND RE-USE ANY EXISTING DUCTWORK HANGERS THAT ARE IN GOOD CONDITION, AND ADEQUATE TO SUPPORT LOCATION FOR INSTALLATION OF NEW DUCTWORK.
23. EXISTING CONDENSATE PUMP, AND ALL ASSOCIATED PIPING FROM AC UNITS SHALL BE REMOVED BACK TO INDIRECT WASTE TERMINATION POINT. REMOVE ALL ASSOCIATED POWER AND CONTROLS FROM CONDENSATE PUMP BACK TO SOURCE.
24. DUCT MOUNTED ELECTRIC HEATER TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED CONTROLS AND SENSORS. DISCONNECT AND REMOVE ELECTRICAL POWER BACK TO SOURCE.
25. ELECTRIC UNIT HEATER TO BE REMOVED IN ITS ENTIRETY. DISCONNECT AND REMOVE ELECTRICAL POWER BACK TO SOURCE.

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WASHINGTON IRVING BRANCH LIBRARY RENOVATION

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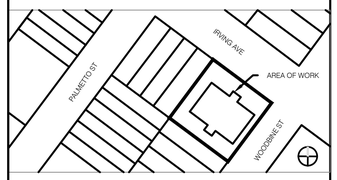
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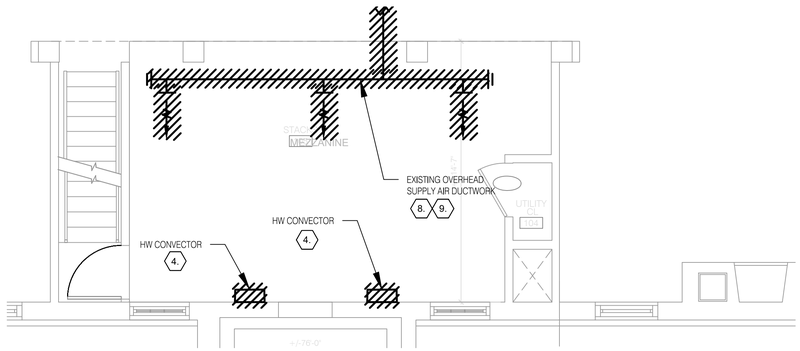
DRAWING TITLE:

MECHANICAL - BASEMENT FLOOR DEMOLITION PLAN

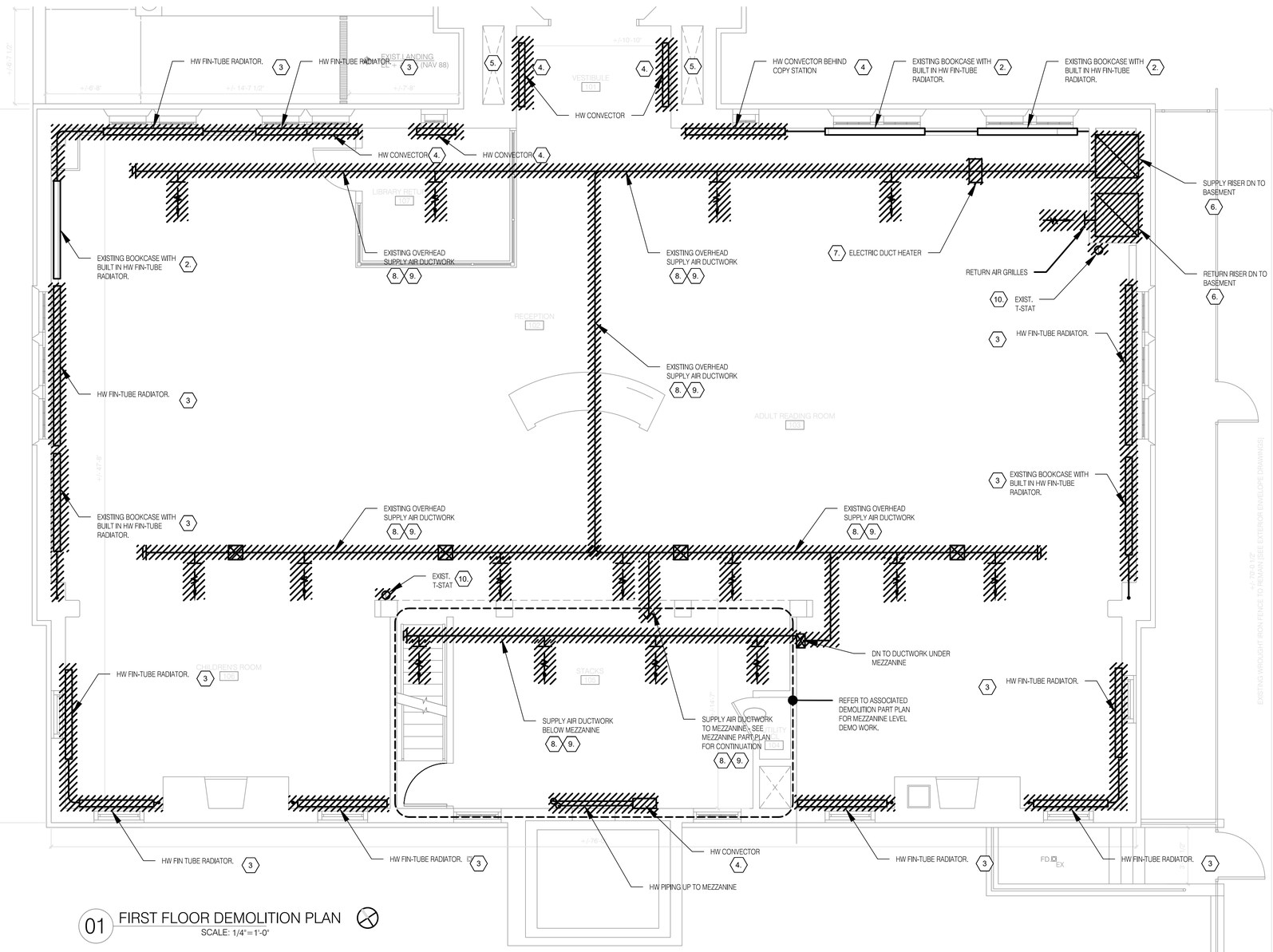
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02 FIRST FLOOR MEZZANINE DEMOLITION PART PLAN
SCALE: 1/4"=1'-0"



01 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/4"=1'-0"

DEMO KEYED NOTES:

1. ALL EXISTING HOT WATER HEATING SUPPLY AND RETURN PIPING TO BE REMOVED. REMOVE ALL ASSOCIATED, FITTINGS, VALVES AND ACCESSORIES. CUT BACK AND CAP ANY PIPING THAT IS TO BE ABANDONED AND NOT ACCESSIBLE. PIPING SHALL BE REMOVED BACK TO HOT WATER BOILER.
2. EXISTING BUILT IN RADIATOR SHALL BE ABANDONED. CUT BACK AND CAP ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING TO RADIATOR FROM BASEMENT BELOW FLOOR.
3. EXISTING RADIATOR BEHIND BOOKCASE SHALL BE REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING BACK TO SOURCE. REMOVE ALL ASSOCIATED VALVES AND CONTROLS. TEMPORARILY REMOVE BOOKCASE AND REINSTALL WHEN RADIATOR REMOVAL IS COMPLETE. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL SCOPE RELATED TO BOOKCASES.
4. EXISTING HOT WATER CONVECTOR UNIT TO BE REMOVED IN ITS ENTIRETY. CUT BACK AND REMOVE ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING BACK TO SOURCE. REMOVE ALL ASSOCIATED VALVES AND CONTROLS.
5. EXISTING ABANDONED DUCT RISER TO ATTIC TO BE DEMOLISHED AND REMOVED IN ITS ENTIRETY. REMOVE ALL ASSOCIATED DUCTWORK ACCESSORIES. CLOSE SHAFT AT ATTIC AND CAP DUCT CONNECTION TO LOUVER. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ANY ASSOCIATED PATCHWORK.
6. EXISTING SUPPLY AND RETURN AIR RISERS UP FROM BASEMENT TO BE REMOVED IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED DUCTWORK ACCESSORIES.REFER TO MECHANICAL NEW WORK PLANS, ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ANY ASSOCIATED PATCHWORK, AND NEW DUCT RISERS.
7. DUCT MOUNTED ELECTRIC HEATER TO BE REMOVED IN ITS ENTIRETY. DISCONNECT AND REMOVE ELECTRICAL POWER BACK TO SOURCE.
8. EXISTING SUPPLY AND RETURN AIR DUCTWORK TO BE REMOVED. REMOVE ALL DUCT FITTINGS, ACCESSORIES, DIFFUSERS, DAMPERS, ETC.
9. CONTRACTOR SHALL INSPECT AND RE-USE ANY EXISTING DUCTWORK HANGERS THAT ARE IN GOOD CONDITION, AND ADEQUATE TO SUPPORT LOCATION FOR INSTALLATION OF NEW DUCTWORK.
10. REMOVE EXISTING THERMOSTAT CONTROLS FOR HEATING AND A/C SYSTEMS. SEE CONTROL AND EQUIPMENT NOTES ON BASEMENT DEMOLITION PLAN,

DOB APPROVAL STAMP

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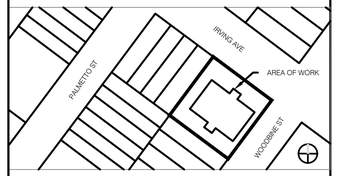
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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
MECHANICAL - FIRST FLOOR DEMOLITION PLAN

SEAL & SIGNATURE

STATE OF NEW YORK · GREGORY E. MUELLER · 086569 · LICENSED PROFESSIONAL ENGINEER

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01 SITE PLAN
SCALE: 1/8"=1'-0"

MECHANICAL NOTES:

1. ALL CONDENSING AND VRF OUTDOOR UNITS TO BE INSTALLED UPON 8" THICK P.C. PAD AND 12" HIGH-FACTORY STEEL STAND. TOP OF P.C. PAD 4" ABOVE SURROUNDING GRADE. TOP OF UNITS SHALL NOT EXCEED 7' 4" ABOVE GRADE. SEE SITE-CIVIL DRAWINGS FOR PAD CONSTRUCTION DETAILS AND NOMINAL DIMENSIONS. SEE MECHANICAL DETAILS FOR UNIT STANDS AND ADDITIONAL UNIT SUPPORT REQUIREMENTS.

2. SEE SITE DRAWINGS FOR ADDITIONAL DETAILING OF ACOUSTICAL BARRIERS AND PLANTERS.

ZONING ANALYSIS:

PERMITTED OBSTRUCTIONS IN REQUIRED YARDS OR REAR YARD EQUIVALENTS SECTION: 24-33 (a) (3) COMPLIANT: Y

ENERGY INFRASTRUCTURE EQUIPMENT AND ACCESSORY, MECHANICAL EQUIPMENT ,SUBJECT TO THE REQUIREMENTS SET FORTH IN SECTION 23-442 (SEE BELOW)

ADDITIONAL PERMITTED OBSTRUCTIONS SECTION: 23-442 (a) (7) COMPLIANT: Y

ENERGY INFRASTRUCTURE EQUIPMENT AND ACCESSORY MECHANICAL EQUIPMENT, PROVIDED THAT:

(i)ALL INFRASTRUCTURE SHALL BE SUBJECT TO THE APPLICABLE PROVISIONS OF SECTION 26-60 (SEE BELOW)
(ii)(a) THE SIZE OF ALL THE EQUIPMENT, INCLUDING ANY SCREENING OR PORTIONS OF ANY BUILDING OR OTHER STRUCTURE ENCLOSING SUCH EQUIPMENT, SHALL NOT EXCEED AN AREA EQUIVALENT TO 25 PERCENT OF A REQUIRED YARD, OR REAR YARD EQUIVALENT, AND IN ADDITION, IN FRONT YARDS, IS LIMITED TO AN AREA NOT EXCEEDING 25 SQ FT.
AREA OF REAR YARD: 1879.5 SF
AREA OF MECHANICAL EQUIPMENT AND SCREENS: 181 SF [71SF + 110 SF]= 9.6%

(ii)(c) IN R6 THROUGH R10 DISTRICTS, A HEIGHT OF 15 FEET ABOVE THE ADJOINING GRADE;
HEIGHT OF SCREEN : 8'-0"

SPECIAL AT-GRADE SCREENING AND ENCLOSURE PROVISIONS SECTION: 26-61 (d) (2) COMPLIANT: Y

(d)(2)A STRIP AT LEAST FOUR FEET WIDE AND DENSELY PLANTED WITH VEGETATION THAT, AT THE TIME OF PLANTING ARE AT LEAST HALF AS TALL IN HEIGHT AS THE SCREEN REQUIRED BY PARAGRAPH (1), AND ARE OF A TYPE WHICH MAY BE EXPECTED TO FORM A YEAR-ROUND DENSE SCREEN AT LEAST SIX FEET HIGH WITHIN THREE YEARS.

MECHANICAL EQUIPMENT IS LOCATED MORE THAN 15 FEET FROM THE ZONING LOT LINE. HOWEVER, PLANTINGS COMPLYING WITH 26-61 (d)(2) ARE PROPOSED.

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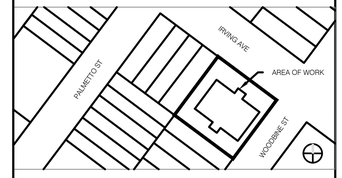
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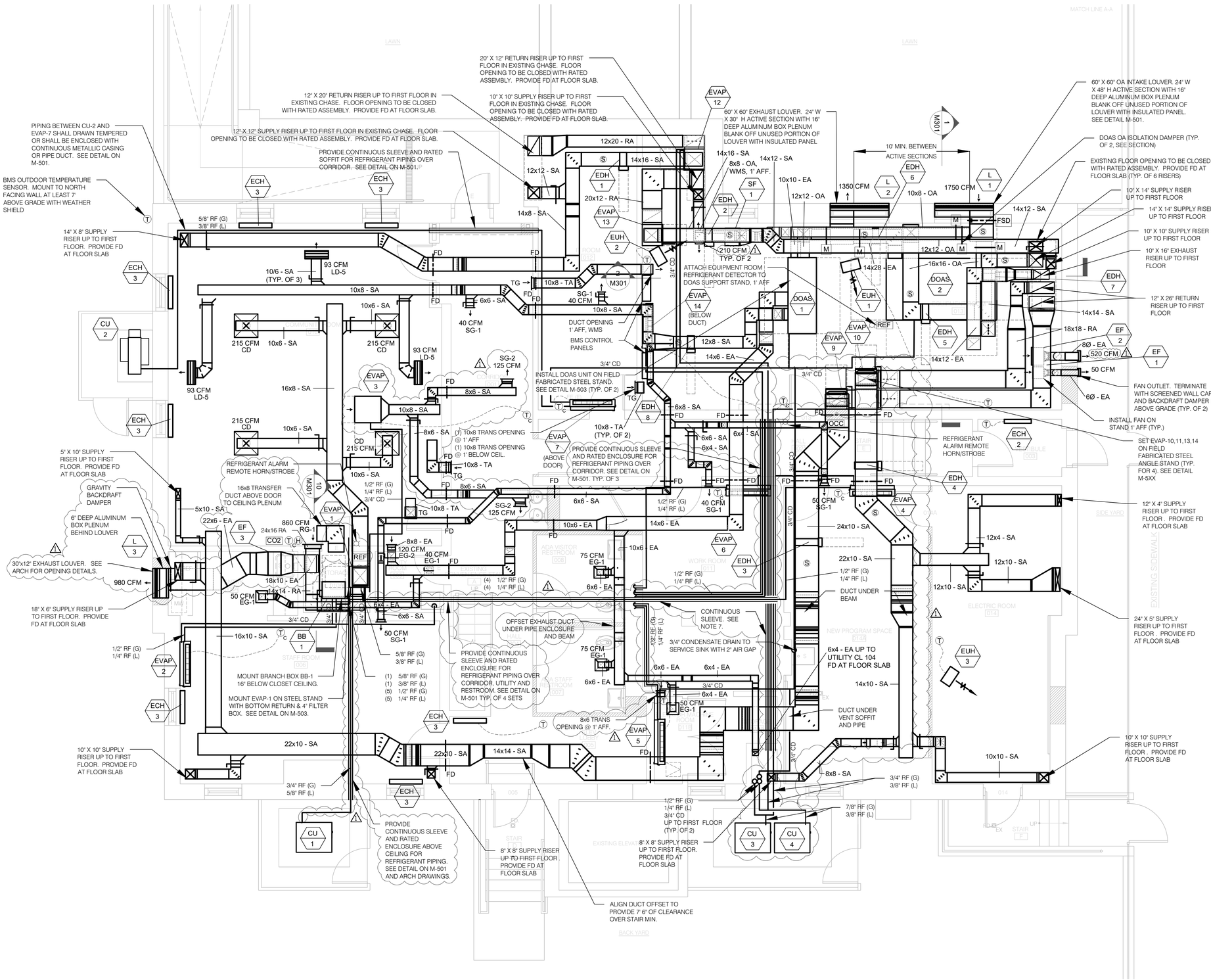
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MECHANICAL - PROPOSED SITE PLAN

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01 BASEMENT PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. ALL EXPOSED DUCTWORK OUTSIDE OF EQUIPMENT ROOMS AND SERVICE SPACES SHALL BE BE INTERNALLY LINED AND EXTERNALLY PREPARED FOR PAINTING. PAINT COLOR AND FINISH TO MATCH ADJACENT CEILING OR WALL AND SHALL BE APPROVED BY THE ARCHITECT THROUGH SUBMISSION OF A DUCT PAINT FINISH SAMPLE.
2. SEE DETAIL ON M-502 FOR ADDITIONAL INFORMATION ON DUCTWORK LINER LOCATIONS AND REQUIREMENTS.
3. ALL WALL-MOUNTED INDOOR EVAPORATOR UNITS TO BE MOUNTED AS HIGH ON WALL AS ALLOWABLE WHILE MAINTAINING MANUFACTURER'S MINIMUM OVERHEAD CLEARANCE, BUT NO LESS THAN 2" BETWEEN THE TOP OF THE UNIT AND THE CEILING. SEE DETAIL M-503. FIELD COORDINATE EXACT LOCATION OF WALL-MOUNTED INDOOR UNITS WITH RCP AND EXISTING TO REMAIN EQUIPMENT, CONDUIT AND PIPING.
4. PROVIDE DUCT ACCESS DOORS FOR ALL FIRE DAMPERS, MOTORIZED DAMPERS AND FIRE-SMOKE DAMPERS IN ACCORDANCE WITH THE MECHANICAL DETAILS. PROVIDE CEILING ACCESS DOORS FOR ALL FIRE DAMPERS AND VOLUME DAMPERS CONCEALED ABOVE NON-ACCESSIBLE CEILINGS. SEE ARCHITECTURAL DRAWINGS.
5. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING FIXTURE AND CEILING GRID COORDINATION WITH DUCTWORK AND AIR OUTLETS/INLETS.
6. ALL OVERHEAD DUCTWORK IN OCCUPIED SPACES AND ABOVE FINISHED CEILINGS TO BE INSTALLED TIGHT TO THE UNDERSIDE OF THE FLOOR SLAB, FLOOR BEAMS OR PLASTER CEILING ABOVE.
7. PROVIDE CONTINUOUS PIPING SLEEVE AND RATED ENCLOSURE FOR ALL REFRIGERANT PIPING OVER WORKROOM SPACE U.O.N. SEE DETAIL ON M-501 AND ARCH DRAWINGS. PIPING SERVING EVAP-6 MAY BE UNENCLOSED WITHIN WORKROOM SPACE.

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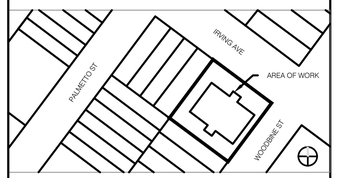
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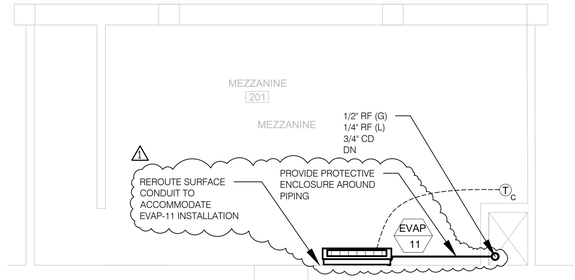
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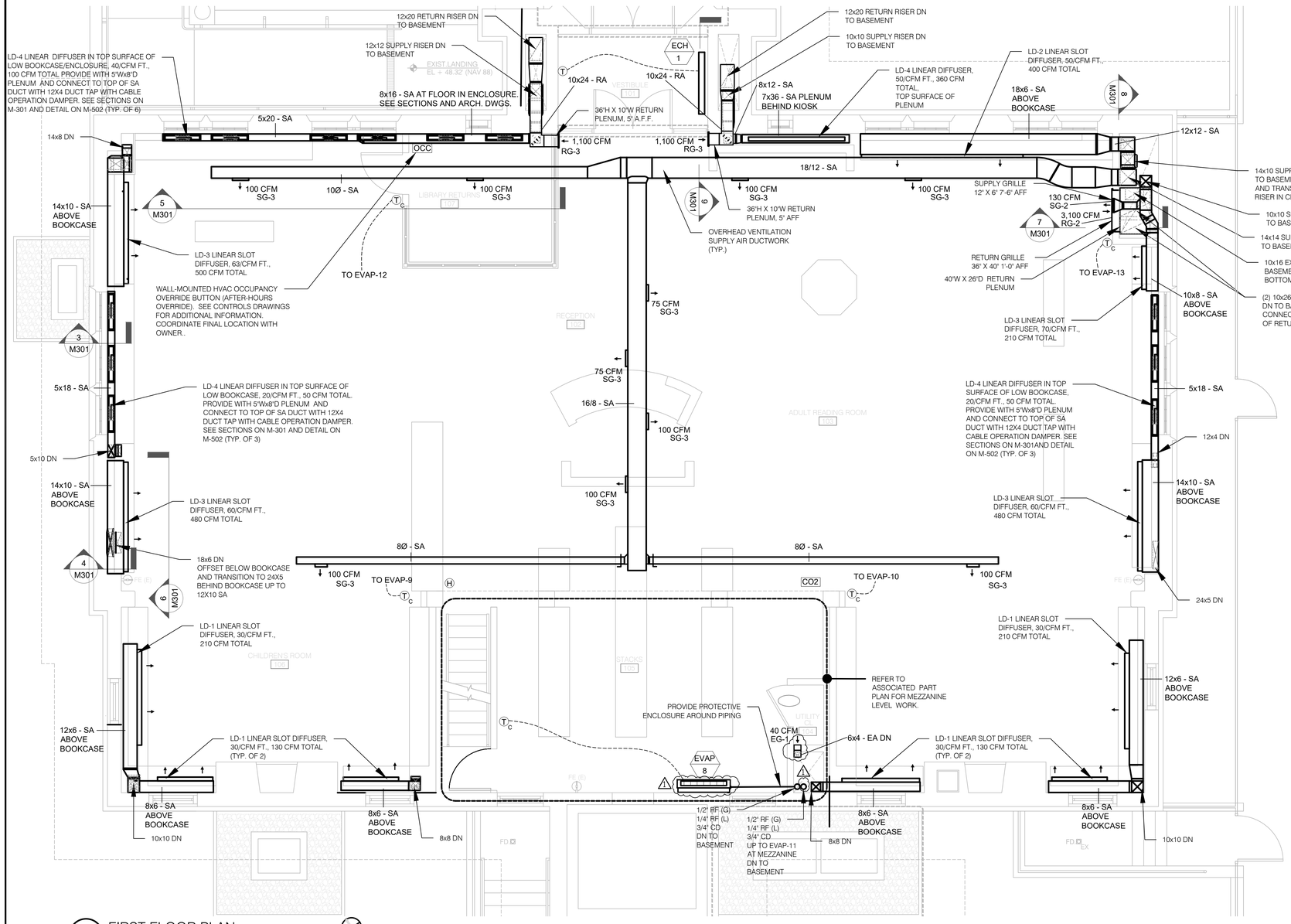
STATE OF NEW YORK * GREGORY E. MUELLER * 096569 LICENSED PROFESSIONAL ENGINEER

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02 FIRST FLOOR MEZZANINE PART PLAN

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



01 FIRST FLOOR PLAN

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

GENERAL NOTES:

1. ALL EXPOSED DUCTWORK OUTSIDE OF EQUIPMENT ROOMS AND SERVICE SPACES SHALL BE BE INTERNALLY LINED AND EXTERNALLY PREPARED FOR PAINTING. PAINT COLOR AND FINISH TO MATCH ADJACENT CEILING OR WALL AND SHALL BE APPROVED BY THE ARCHITECT THROUGH SUBMISSION OF A DUCT PAINT FINISH SAMPLE.
2. SEE DETAIL ON M–502 FOR ADDITIONAL INFORMATION ON DUCTWORK LINER LOCATIONS AND REQUIREMENTS.
3. PROVIDE DUCT ACCESS DOORS FOR ALL FIRE DAMPERS, MOTORIZED DAMPERS AND FIRE–SMOKE DAMPERS IN ACCORDANCE WITH THE MECHANICAL DETAILS.
4. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING FIXTURE AND CEILING GRID COORDINATION WITH DUCTWORK AND AIR OUTLETS/INLETS.
5. REFERENCE SECTIONS ON M–301 AND DETAIL #5,M–502 FOR LINEAR DIFFUSERS IN TOP OF LOW BOOKCASES, DETAIL #4,M–503 FOR LINEAR DIFFUSERS ABOVE HIGH BOOKCASES.

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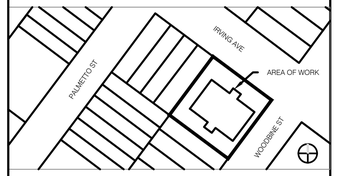
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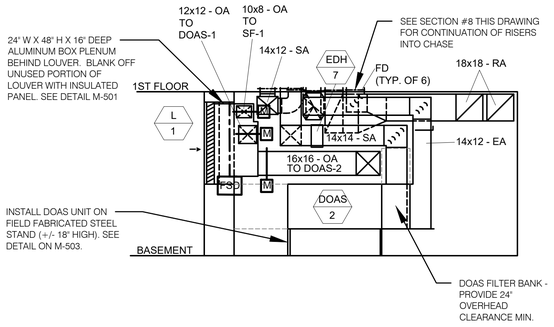
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MECHANICAL - PROPOSED FIRST FLOOR PLAN

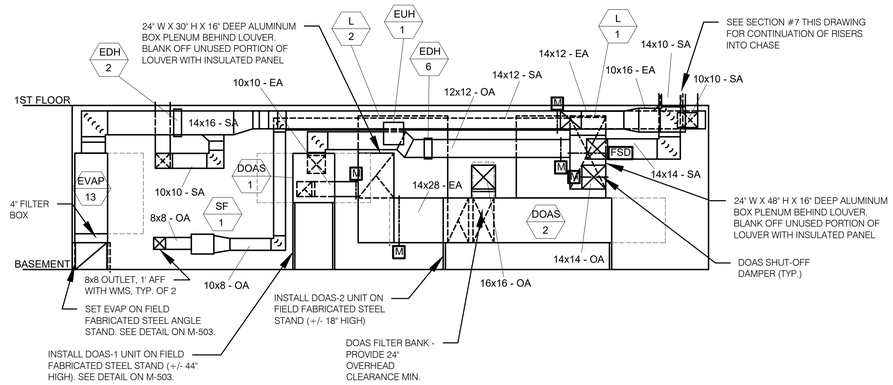
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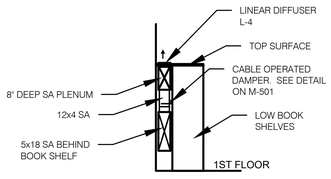
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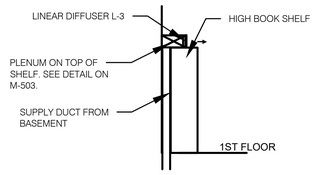
01 SECTION THROUGH EQUIPMENT ROOM 013
SCALE: 1/4"=1'-0"



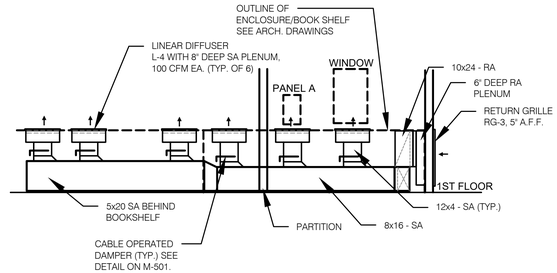
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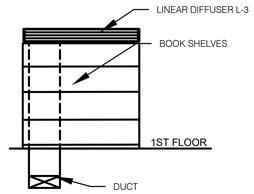
03 LINEAR DIFFUSER AT LOW BOOKSHELF
SCALE: 1/2"=1'-0"



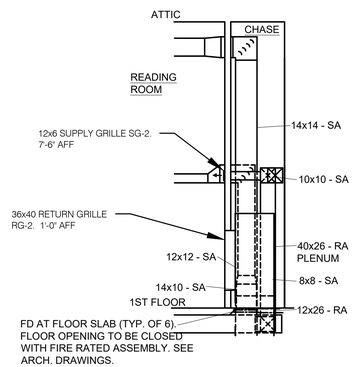
04 LINEAR DIFFUSER AT HIGH BOOKSHELF
SCALE: 1/4"=1'-0"



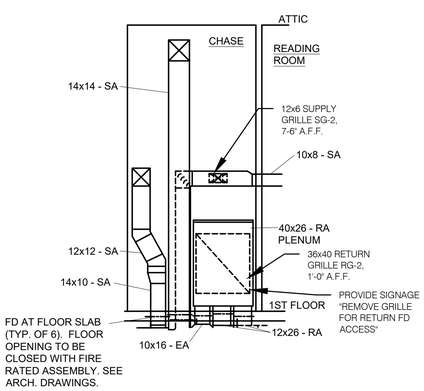
05 LINEAR DIFFUSERS - FIRST FLOOR NORTH WALL
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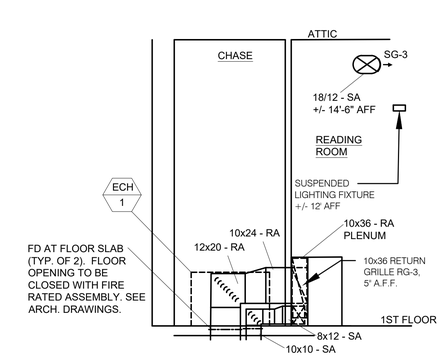
06 LINEAR DIFFUSER AT HIGH BOOK SHELF
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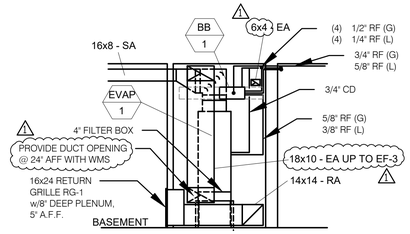
07 SECTION THROUGH NE DUCT CHASE AT 1ST FLOOR
SCALE: 1/4"=1'-0"



08 SECTION THROUGH NE DUCT CHASE AT 1ST FLOOR
SCALE: 1/4"=1'-0"



09 SECTION THROUGH DUCT CHASE NEAR VESTIBULE
SCALE: 1/4"=1'-0"



10 SECTION THROUGH CLOSET 010A
SCALE: 1/4"=1'-0"

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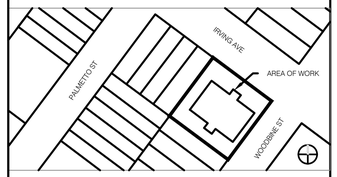
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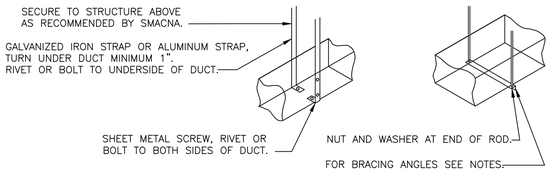
MECHANICAL SECTIONS

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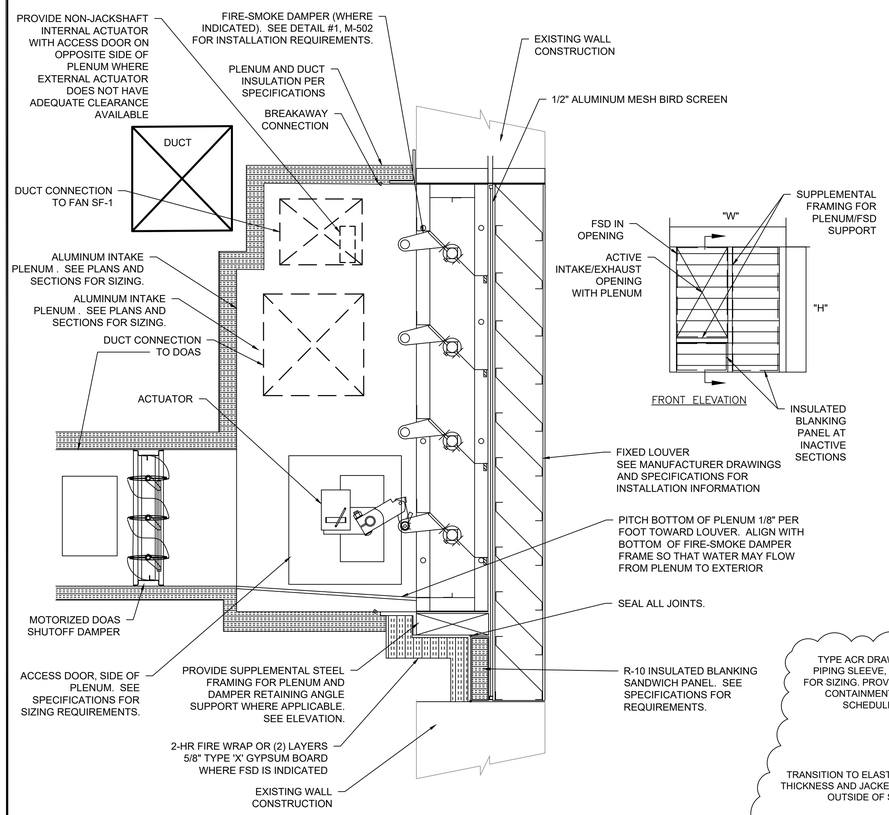


RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)								
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 < 30'	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	12 GA. (0.106")	1"x 22 GA.	12 GA.(0.106")
P/2 < 72"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"	1"x 22 GA.	1/4"	1"x 22 GA.	1/4"
P/2 < 96"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	3/8"	1"x 22 GA.	1/4"
P/2 < 120"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"
P/2 < 168"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"
P/2 < 192"	–	1/2"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 16 GA.	3/8"

NOTE: DUCTWORK ATTACHMENT TO STRUCTURE AND SEISMIC BRACING NOT SHOWN (DELEGATED DESIGN, SEE NOTES).

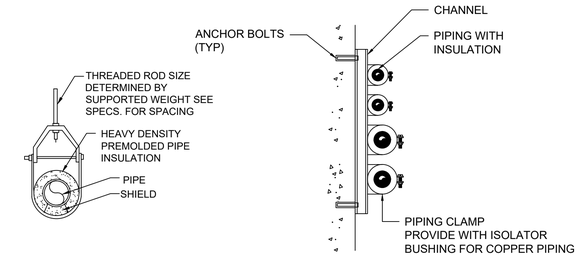
1 RECTANGULAR DUCT HANGING DETAIL

N.T.S.



4 LOUVER WITH FIRE SMOKE DAMPER

N.T.S.

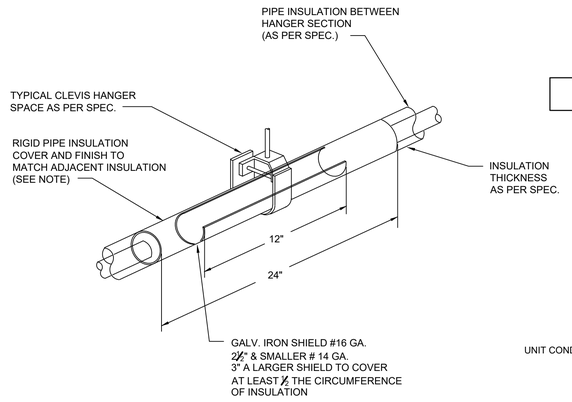


INDIVIDUAL PIPE HANGER ROD & SPACING SCHEDULE					
NOMINAL PIPE OR TUBE SIZE - INCHES	3/4	1	1 1/2	2	
HANGER ROD SIZE - INCHES	3/8	3/8	1/2	1/2	
MAX. SPACING BETWEEN PIPE SUPPORTS - FEET	6	6	8	8	
MAX. SPACING BETWEEN CU. TUBE SUPPORTS - FEET	6	6	6	8	

NOTE: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE, TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN. PIPING ATTACHMENT TO STRUCTURE NOT SHOWN (SEE SPECIFICATIONS FOR REQUIREMENTS).

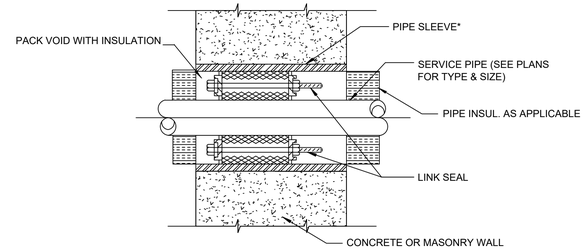
2 PIPE HANGING DETAIL

N.T.S.



5 TYPICAL INSULATED PIPE HANGER DETAIL

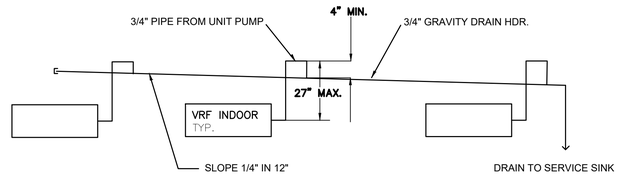
N.T.S.



*NOTE: SLEEVE NOT REQUIRED FOR CONCRETE WALL WHERE WALL CORE IS USED.

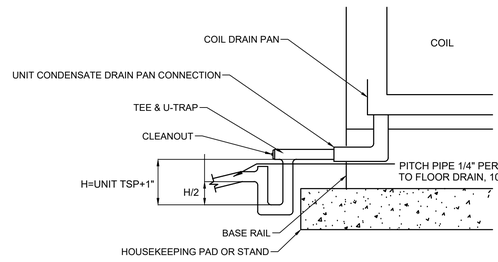
3 EXTERIOR WALL PIPE PENETRATION

N.T.S.



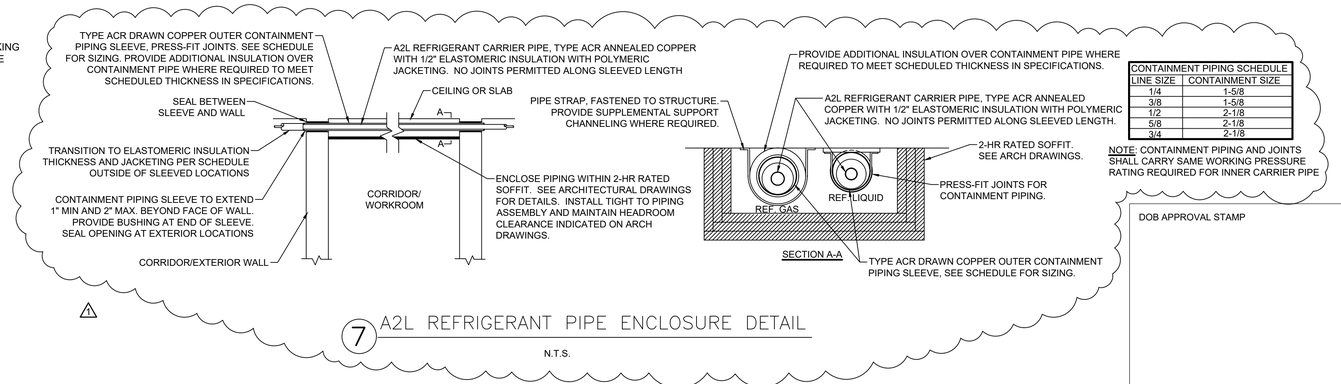
6 CONDENSATE DRAIN PIPING (INDOOR UNIT WITH INTERNAL PUMP)

N.T.S.



8 CONDENSATE DRAIN TRAP (GRAVITY)

N.T.S.



CONTAINMENT PIPING SCHEDULE	
LINE SIZE	CONTAINMENT SIZE
1/4	1-5/8
3/8	1-5/8
1/2	2-1/8
5/8	2-1/8
3/4	2-1/8

NOTE: CONTAINMENT PIPING AND JOINTS SHALL CARRY SAME WORKING PRESSURE RATING REQUIRED FOR INNER CARRIER PIPE

7 A2L REFRIGERANT PIPE ENCLOSURE DETAIL

N.T.S.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

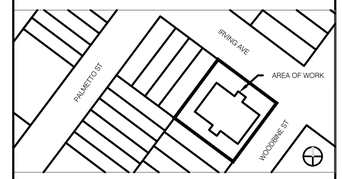
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
0	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

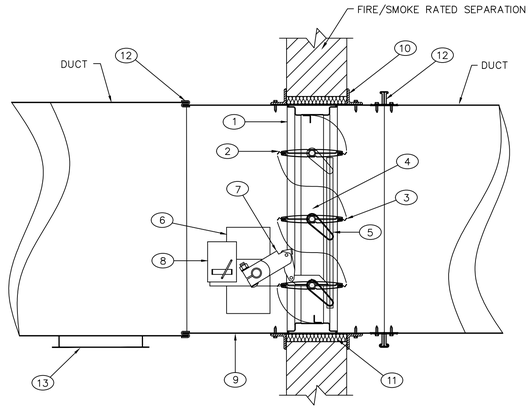
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
MECHANICAL DETAILS

SEAL & SIGNATURE

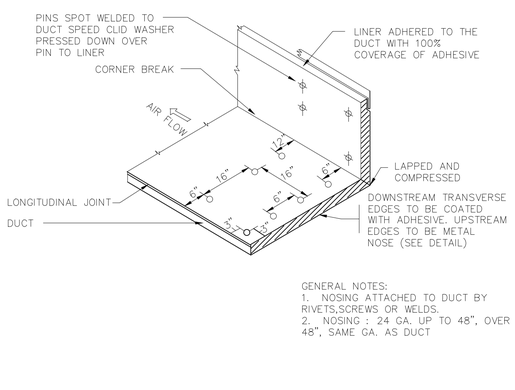


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CHECKED BY:	GM/AA
DRAWING NUMBER:	**M-501.00**
CADO FILE No:	

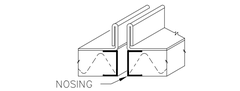


1. COMBINATION FIRE/SMOKE DAMPER (LEAKAGE CLASS 1, 1-1/2 HR OR 3 HR, UL555/555S LISTED).
2. MULTIPLE INTERLOCKING BLADES (6"W x 14 GA., DOUBLE THICKNESS AIRFOIL, PARALLEL OPERATION).
3. BLADE EDGE SEALS (SILICONE RUBBER/ GALV. STEEL, 450°F RATED).
4. JAMB SEALS (FLEXIBLE STAINLESS STEEL COMPRESSION TYPE).
5. CONNECTING ROD AND LINKAGE.
6. OPERATOR/ACTUATOR (110V). SHIPPED LOOSE FOR FIELD INSTALLATION. MOUNT EXTERNAL TO DUCT UNLESS OTHERWISE INDICATED.
7. OVER CENTER LOCK.
8. FIRESTAT AND SWITCH PACKAGE (TS150, SP100).
9. SLEEVE (14 GA.)
10. RETAINING ANGLES (1-1/2 x 1-1/2 x 3/16). MIN. 1" OVERLAP ON ALL SIDES OF DAMPER, FASTEN TO SLEEVE ONLY WITH 1/4" DIAM. BOLTS AND NUTS ON MAX 8" CENTERS.
11. ANNULAR SPACE (1/4" MIN.). PACK WITH MINERAL WOOL OR OTHER ACCEPTABLE FIRE-RATED MATERIAL.
12. BREAKAWAY DUCT CONNECTION (SLIP JOINT OR DUCTMATE JOINT SYSTEM). DO NOT WELD OR MECHANICALLY FASTEN SLIP JOINTS TO DUCT/SLEEVE. CAULK SLIP DRIVES WITH NON-HARDENING SEALANT (FLAMESPREAD MAX. 25/ SMOKE DEVELOPED MAX. 50). FASTEN DUCTMATE ANGLES TO DUCT/SLEEVE WITH SELF-TAPPING SCREWS, APPLY NEOPRENE GASKET AND COUPLE MATING ANGLES TOGETHER WITH PLASTIC CLEATS. DO NOT BOLT OR SCREW DUCTMATE ANGLES TOGETHER.
13. ACCESS DOOR. SEE SPECIFICATIONS FOR SIZING REQUIREMENTS.

1 FIRE/ SMOKE DAMPER
N.T.S.

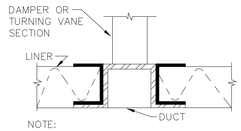


GENERAL NOTES:
1. NOSING ATTACHED TO DUCT BY RIVETS,SCREWS OR WELDS.
2. NOSING : 24 GA. UP TO 48", OVER 48", SAME GA. AS DUCT



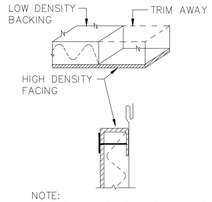
NOTE:
ENTERING, BUTTING & TRAILING EDGES OF LINER AT TRANSVERSE JOINTS TO BE COVERED BY NOSING

TRANSVERSE JOINT DETAIL



NOTE:
HAT SECTION INSTALLED WITH NOSING TO CONCEAL LINER EDGES.

DETAIL AT DAMPERS AND TURNING VANES



NOTE:
FOLD OVER HIGH DENSITY FACING ON ALL LONGITUDINAL JOINTS & SECURE WITH MECH. FASTENERS

LONGITUDINAL JOINT DETAIL

ACCESS DOOR NOSING DETAIL

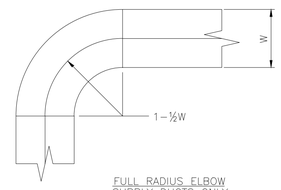
DUCT LINER LOCATION NOTES:

A. PROVIDE 1" DUCT LINER AT THE FOLLOWING LOCATIONS:
1. DUCTWORK WITHIN 15 FEET OF A FAN OR AIR-HANDLING UNIT, EXCEPT AS OTHERWISE NOTED.
2. EXPOSED SUPPLY AIR DUCTWORK IN CONDITIONED SPACE OUTSIDE OF EQUIPMENT ROOMS OR SERVICE SPACES (NO EXTERNAL INSULATION).
3. TRANSFER DUCTWORK
4. ALL DUCTWORK WITHIN 10 FEET OF AN AIR INLET OR OUTLET, EXCEPT AS OTHERWISE NOTED.

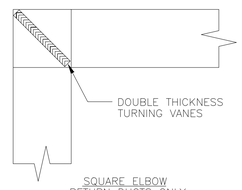
B. PROVIDE 1/2" DUCT LINER AT THE FOLLOWING LOCATIONS:
1. SUPPLY AIR DUCTWORK AND PLENUMS BEHIND BOOKCASES AT FIRST FLOOR.
2. SUPPLY AIR PLENUMS ABOVE BOOKCASES.

C. DO NOT PROVIDE LINER AT THE FOLLOWING LOCATIONS:
1. OUTSIDE AIR AND EXHAUST PLENUMS AND DUCTWORK BETWEEN EXTERIOR LOUVERS AND FANS OR AIR-HANDLING UNITS.

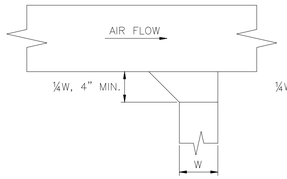
2 DUCT LINER DETAIL
N.T.S.



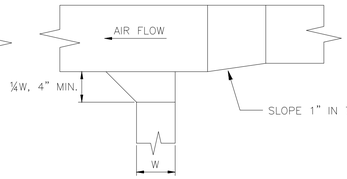
FULL RADIUS ELBOW
SUPPLY DUCTS ONLY



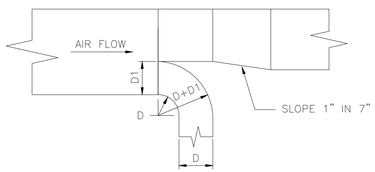
SQUARE ELBOW
RETURN DUCTS ONLY



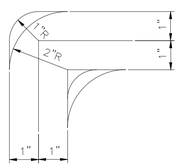
TAKE-OFF
SUPPLY DUCTS ONLY



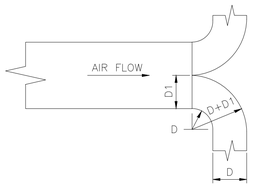
TAKE-OFF
RETURN DUCTS ONLY



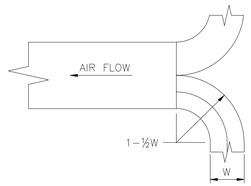
TAKE-OFF
SUPPLY DUCTS ONLY



TYPICAL TURNING VANES
RETURN DUCTS ONLY

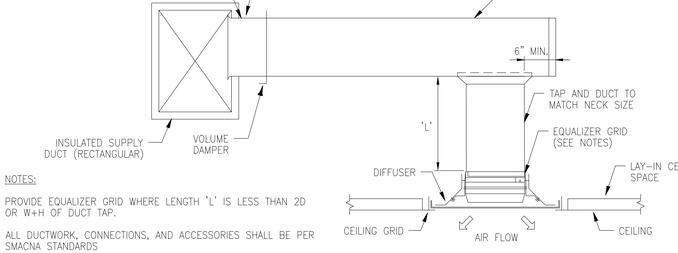


LONG RADIUS TEE
SUPPLY DUCTS ONLY



LONG RADIUS TEE
RETURN DUCTS ONLY

4 TYPICAL DUCT DETAILS
N.T.S.

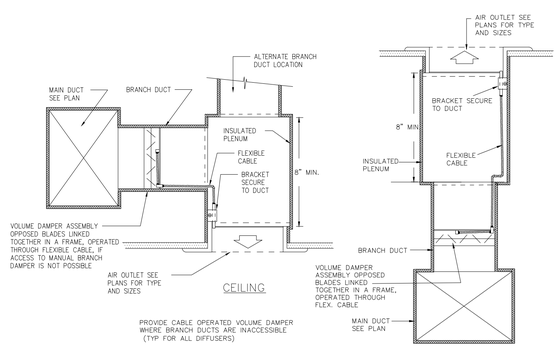


NOTES:

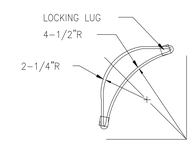
PROVIDE EQUALIZER GRID WHERE LENGTH 'L' IS LESS THAN 2D OR W+H OF DUCT TAP.

ALL DUCTWORK, CONNECTIONS, AND ACCESSORIES SHALL BE PER SMACNA STANDARDS

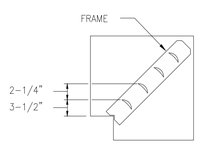
3 TYPICAL DIFFUSER CONNECTION – TAP TO BOTTOM OF BRANCH DUCT
N.T.S.



5 LINEAR DIFFUSER DETAIL
N.T.S.

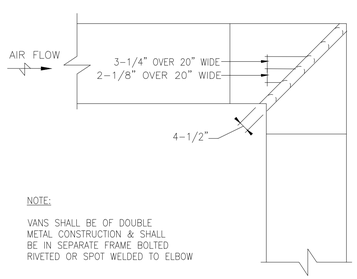


TURNING VANE



VANED ELBOW

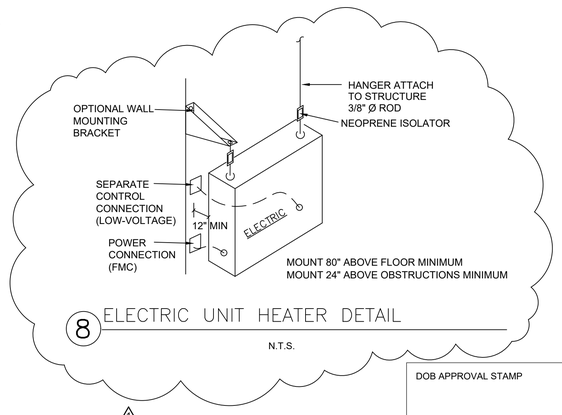
6 DOUBLE THICKNESS TURNING VANES FOR SQUARE ELBOW
N.T.S.



NOTE:

VANS SHALL BE OF DOUBLE METAL CONSTRUCTION & SHALL BE IN SEPARATE FRAME BOLTED RIVETED OR SPOT WELDED TO ELBOW

7 SQUARE ELBOW WITH TURNING VANES DETAIL
N.T.S.



8 ELECTRIC UNIT HEATER DETAIL
N.T.S.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
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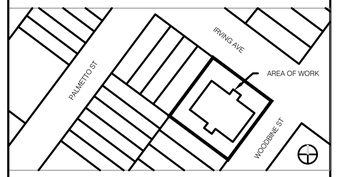
CIVIL ENGINEERS :
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35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
0	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

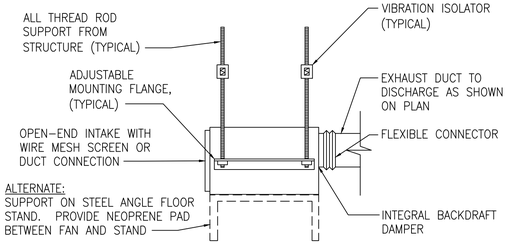
DRAWING TITLE:

MECHANICAL DETAILS

SEAL & SIGNATURE

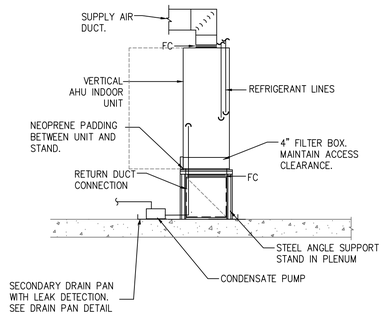


DATE:	03.11.2024
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DRAWN BY:	YK
CHECKED BY:	GM/AA
DRAWING NUMBER:	M-502.00
CADO FILE No:	



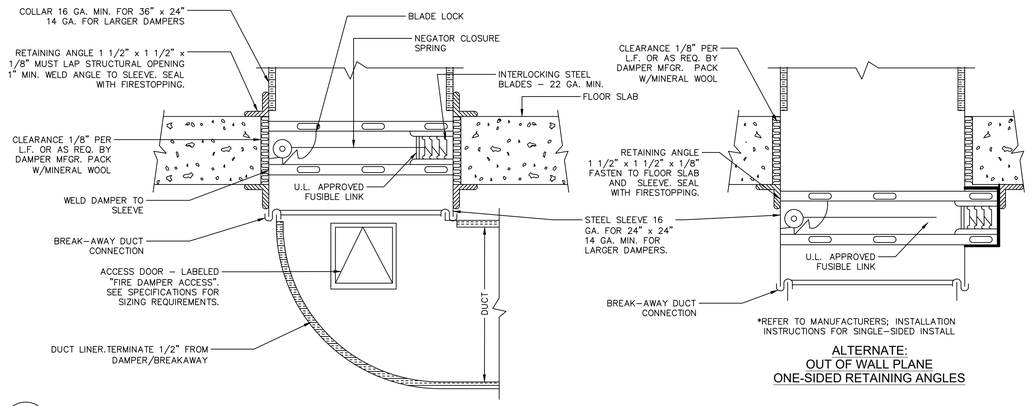
1 IN–LINE FAN INSTALLATION DETAIL

N.T.S.



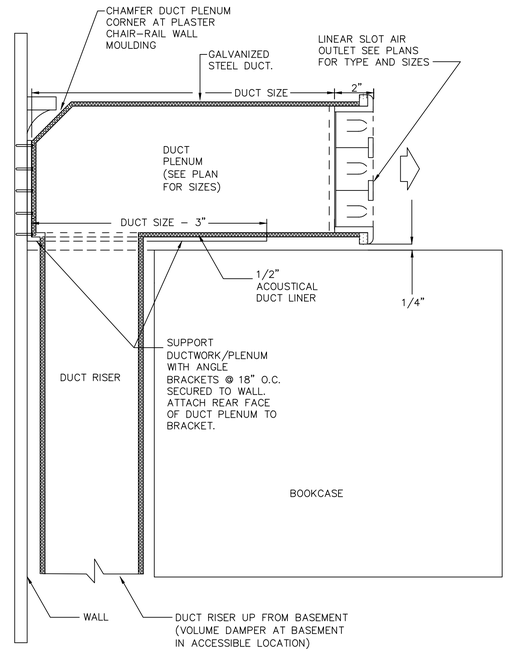
2 VERTICAL FLOOR–MOUNTED AHU

N.T.S.



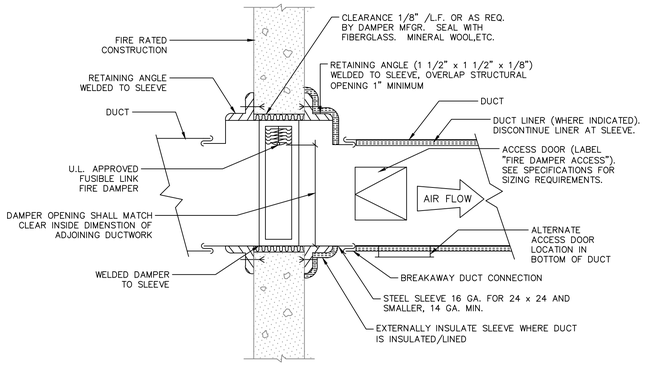
3 HORIZONTAL FIRE DAMPER DETAIL

N.T.S.



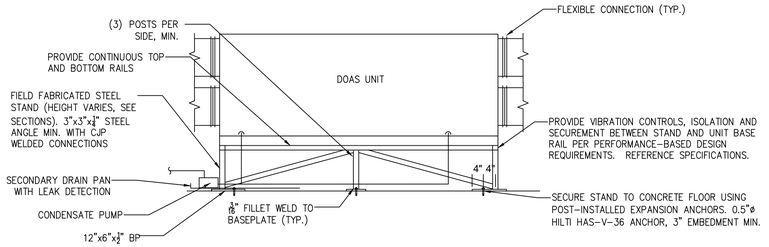
4 LINEAR DIFFUSER ABOVE BOOKCASE DETAIL

N.T.S.



5 "TYPE B" FUSIBLE LINK FIRE DAMPER DETAIL

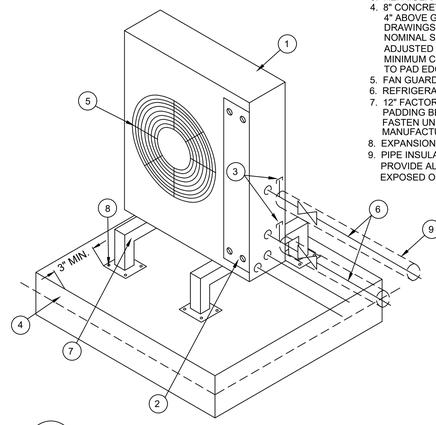
N.T.S.



NOTES: 1. ALL STEEL SHALL BE ASTM A36
2. SEE SPECIFICATIONS 230529 AND 230548 FOR ADDITIONAL REQUIREMENTS FOR FIELD FABRICATED STAND AND SUPPORT.

6 DOAS MOUNTING AND CONNECTION DETAIL

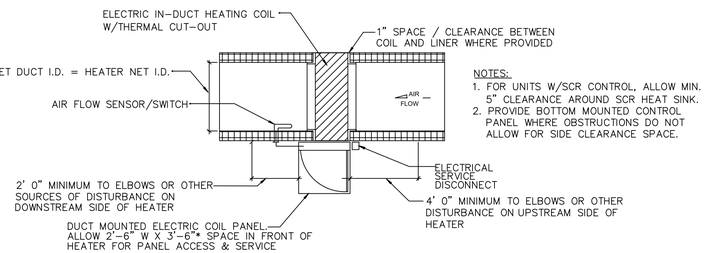
N.T.S.



1. CONDENSING UNIT
2. COMPRESSOR ACCESS
3. REFRIGERANT GAUGE CONNECTIONS
4. 8" CONCRETE PAD, TOP OF PAD 4" ABOVE GRADE. SEE SITE-CIVIL DRAWINGS FOR PAD DETAILS AND NOMINAL SIZES. PAD SIZES MUST BE ADJUSTED AS REQUIRED TO MAINTAIN MINIMUM CLEARANCE FROM STAND FEET TO PAD EDGE.
5. FAN GUARD
6. REFRIGERANT LINES
7. 12" FACTORY STAND WITH NEOPRENE PADDING BETWEEN UNIT AND STAND FASTEN UNIT TO STAND PER MANUFACTURER'S INSTRUCTIONS.
8. EXPANSION ANCHOR BOLT
9. PIPE INSULATION PER SPECIFICATIONS. PROVIDE ALUMINUM JACKETING IN EXPOSED OUTDOOR LOCATIONS

7 AIR–COOLED CONDENSING UNIT–MOUNTED ON CONCRETE PAD

N.T.S.

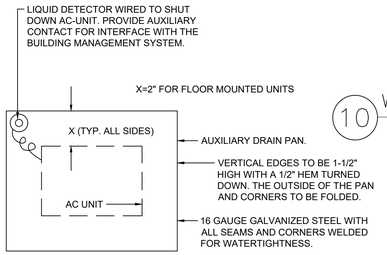


8 ELECTRIC DUCT HEATER DETAIL

N.T.S.

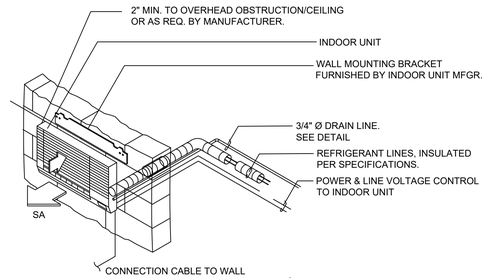
NOTES:

1. THIS DETAIL APPLIES TO:
   - FLOOR MOUNTED OR CEILING HUNG AC-UNITS WITH INTEGRAL CONDENSATE DISCHARGE PUMPS.
   - FLOOR MOUNTED OR CEILING HUNG AC-UNITS WITH GRAVITY FLOW CONDENSATE PIPING.
2. PITCH DRAIN PAN TO LIQUID DETECTOR. PROVIDE 3/4" PLUGGED DRAIN AT LOW POINT.



9 AUXILIARY DRAIN PAN DETAIL

N.T.S.



10 WALL–MOUNTED INDOOR VRF/AC UNIT DETAIL

N.T.S.

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ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

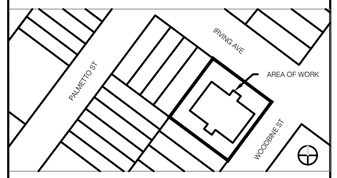
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
MECHANICAL DETAILS

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	YK
CHECKED BY:	GM/AA
DRAWING NUMBER:	M-503.00
CADO FILE No:	

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE

UNITED COOL AIR AS BASIS OF DESIGN

TAG	LOCATION	AREA SERVED	DEHUMIDIFICATION PERFORMANCE (UNIT TOTAL, INCLUDING ERW AND REHEAT)				HEATING PERFORMANCE (@ 13°F OUTDOOR)			DX/RECOVERED REHEAT		ENERGY RECOVERY WHEEL PERFORMANCE (BASED ON 75 F DB/ 63 F WB SUMMER, 70 F DB/ 59 F WB WINTER RETURN AIR)					SUPPLY FAN			EXHAUST FAN			REFRIGERATION SYSTEM			ELECTRICAL				ISMRE	ISCOP	SUPPORT TYP.	WEIGHT (LBS)	MANUFACTURER / MODEL NO.	COMMENTS
			TOTAL COOLING CAPACITY (BTU/H)	SENSIBLE COOLING CAPACITY (BTU/H)	EAT DB/WB (°F)	LAT DB/WB/DP (°F)	HEAT PUMP HEATING CAPACITY (BTU/H)	TEMP RISE (°F)	MAX. LAT DB (°F)	REHEAT CAPACITY (BTU/H)	REHEAT TEMP RISE (°F)	EAT DB/WB (°F)		LAT DB/WB (°F)		EFF. (%)		TOTAL SUPPLY AIRFLOW (CFM)	SUPPLY ESP (IN. W.G.)	FAN MOTOR POWER (kW)	TOTAL EXHAUST AIRFLOW (CFM)	EXHAUST ESP (IN. W.G.)	FAN MOTOR POWER (kW)	COMP. /CIRC. QTY.	COMP. TYPE	REF. TYPE CHARGE (LBS., OZ.)	VOLT/ PH/HZ	MCA	MOCP	FLA						
												SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER																	
DOAS -1	BASEMENT EQUIPMENT RM.	BASEMENT	32,924	5,472	80.2/76.0	70.1/57.7/48.9	7,830	14.5	72.2	11,394	21.1	80.2/76.0	13.0/12.0	75.4/66.9	57.7/51.4	70.6	78.1	500	1.0	0.4	450	1.0	0.4	1/1	ROTARY	R-454B 7, 0	230/1/60	9.3	15	8.3	11.1	8.0	HORIZONTAL	600	UNITED COOL AIR / AAH100G1ASTB6	1, 3-10
DOAS -2	BASEMENT EQUIPMENT RM.	FIRST FLOOR & MEZZANINE	63,710	5,335	80.2/76.0	75.0/56.7/41.9	42,556	41.0	101.8	33,585	32.7	80.2/76.0	13.0/12.0	75.9/65.6	60.8/52.4	79.7	80.8	950	1.0	4.4	900	1.0	4.4	1/1	DIGITAL SCROLL	R-454B 22, 0	230/3/60	53.7	70	48.6	5.2	3.3	HORIZONTAL	2000	UNITED COOL AIR / AAH205G3ASTB2	2-10

Comments:

1. SINGLE PACKAGED HORIZONTAL CABINET CONFIGURATION. TOTAL ENERGY RECOVERY WHEEL, HEAT PUMP DX HEATING/COOLING WITH COATED COILS, ROTARY COMPRESSOR, AUXILIARY REHEAT COIL, SENSIBLE ALUMINUM PLATE HEAT EXCHANGER.
2. SINGLE PACKAGED HORIZONTAL CABINET CONFIGURATION. TOTAL ENERGY RECOVERY WHEEL, HEAT PUMP DX HEATING/COOLING WITH COATED COILS, DIGITAL SCROLL COMPRESSOR, MODULATING HOT-GAS REHEAT COIL.
3. R-8 DOUBLE WALL CABINET CONSTRUCTION WITH SOLID INNER LINER, STAINLESS STEEL DRAIN PAN.
4. ECM SUPPLY AND EXHAUST FANS WITH BUILT-IN PRESSURE TRANSDUCERS AND AIRFLOW MEASUREMENT.
5. 2" MERV 13 OUTDOOR AIR FILTER AND 2" MERV 8 EXHAUST AIR FILTER.
6. FACTORY MICROPROCESSOR CONTROLLER WITH BACNET COMMUNICATION AND BUILT-IN DISPLAY INTERFACE, FACTORY TEMPERATURE AND DEW POINT SENSORS.
7. R-454B REFRIGERANT AS STANDARD, DOAS-1: 7.0 LBS MAXIMUM CHARGE PER SINGLE CIRCUIT UNIT, DOAS-2: 22.0 LBS MAXIMUM CHARGE PER SINGLE CIRCUIT UNIT. PROVIDE WITH FACTORY REFRIGRANT DETECTION AND FAN CONTROLS MEETING THE REQUIREMENTS OF ASHRAE 15 SECTIONS 7.6.1.1 AND 7.6.2.
8. PROVIDE MOTORIZED SHUTOFF DAMPERS MEETING THE REQUIREMENTS OF NYCECC FOR OA INTAKE AND EXHAUST OUTLET OF EACH UNIT. SEE PLANS FOR LOCATIONS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. INSTALL ON FIELD FABRICATED STEEL ANGLE FLOOR STAND. +/-46" HIGH (DOAS-1) OR +/-18" HIGH (DOAS-2); FEILD CONFIRM.
10. PROVIDE CONDENSATE DRAIN PUMP, SECONDARY DRAIN PAN WITH LEAK DETECTION.

HEAT PUMP OUTDOOR UNIT SCHEDULE

TRANE-MITSUBISHI AS BASIS OF DESIGN

EQUIPMENT NO.	SERVICE	COOLING CAPACITY @ 92 F (MBH)	HEATING CAPACITY @ 12 F (MBH)	COMP. COUNT	COMPRESSOR TYPE	REFRIGERANT TYPE/CHARGE (LBS., OZ.)	ELECTRICAL			EER/ IEER/ SEER	COP	SOUND PRESS. (dBA)	WEIGHT (LBS)	MODEL NO.	COMMENTS
							VOLT/PH/HZ	MCA	MOCP						
CU-1	EVAP-1 THRU -6	69.19	65.57 ⚠1	1	INV. SCROLL	R-32/ 38, 8 ⚠1	230/3/60	40	60	15.3/26.1/ -	4.69	57	604	TURYE0723AMM0AN ⚠1	HEAT RECOVERY TYPE, 1, 3, 4, 5
CU-2	EVAP-7	20.87		1	INVERTER	R-454B/ 7, 11	230/1/60	22	37	- / - / 21.1	-	49	155	PUYA24NL	COOLING ONLY, 1, 2, 4
CU-3	EVAP-8 THRU -10	95.74	79.57	1	INV. SCROLL	R-32/ 29, 13	230/3/60	40	60	13.9/24.1/ -	4.06	58	598	TUHYE0963AMM0AN	HEAT PUMP TYPE, 1, 3, 4, 5
CU-4	EVAP-11 THRU -13	94.85	78.83 ⚠1	1	INV. SCROLL	R-32/ 29, 13 ⚠1	230/3/60	40	60	13.9/24.1/ -	4.06	58	598	TUHYE0963AMM0AN ⚠1	HEAT PUMP TYPE, 1, 3, 4, 5

COMMENTS:
1. INSTALL OUTDOOR UNIT MOUNTED TO PAD ON 12" HIGH FACTORY STEEL STAND PER MANUFACTURER INSTALLATION GUIDELINES. PROVIDE ALL NECESSARY PARTS AND ACCESSORIES AS REQUIRED.
2. PROVIDE CU-2 WITH LOW-AMBIENT PERFORMANCE BAFFLE KIT FOR -40 F COOLING OPERATION.
3. HEATING OPERATION RANGE: -13 F - 60 F, COOLING OPERATION RANGE: 23 F - 126 F
4. REFRIGERANT QUANTITIES ARE BASED ON APPROXIMATE LINE LENGTHS INDICATED. CONTRACTOR SHALL PROVIDE A REFRIGERANT PIPING SHOP DRAWING AND SHALL CONFIRM REFRIGERANT QUANTITY BASED ON THE ACTUAL SYSTEM COMPONENTS PROVIDED AND PIPING LAYOUT REFLECTED IN THE SHOP DRAWING AND SHALL SUBMIT FOR REVIEW AND APPROVAL. ⚠1
5. PROVIDE CU-1, 3 AND 4 WITH SOUND ATTENUATING CONDENSER FAN HOOD WHICH PROVIDES 3 dBA SOUND ATTENUATION MIN. SOUND FIGURES SHOWN IN SCHEDULE ARE UNIT SOUND LEVELS WITH HOOD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FAN SCHEDULE

GREENHECK AS BASIS OF DESIGN

TAG	LOCATION	TYPE	AIRFLOW (CFM)	ESP (IN. W.C.)	RPM	ELECTRICAL			SONES	WEIGHT (LBS.)	MODEL
						VOLT/PH/HZ	WATTS	FLA			
EF-1	EQUIPMENT RM	INLINE CABINET	50	0.15	676	115/1/60	16	0.19	<0.3	20	CSP-A110
EF-2	EQUIPMENT RM	INLINE CABINET	520	0.25	1231 ⚠1	115/1/60	(130) ⚠1	2.45	(1.4) ⚠1	40	CSP-A510-VG
EF-3	STORAGE 010A	INLINE CABINET	980	0.83	1310	115/1/60	799	7.1	3.5	58	CSP-A1300 ⚠1
SF-1	EQUIPMENT RM	INLINE CABINET	420	0.5	1272 ⚠1	115/1/60	(110) ⚠1	2.45	(1.1) ⚠1	37	CSP-A510-VG

COMMENTS:
1. PROVIDE WITH SOLID STATE SPEED CONTROL, INLET MESH SCREEN/FAN GUARD, ROUND DUCT CONNECTOR AND ROUND HOODED WALL CAP WITH INTEGRAL BACKDRAFT DAMPER.
2. POLYPROPYLENE FAN WHEEL.

REGISTER AND DIFFUSER SCHEDULE

TITUS AS BASIS OF DESIGN

GENERAL INFORMATION		PERFORMANCE DATA							REMARKS
TYPE	DESCRIPTION	MATERIAL	MAX NC	MAX. TOTAL PRESSURE (in W.G.)	CFM	NECK DIMENSION	FACE DIMENSION	MODEL	
CD	SUPPLY	ALUMINUM	12	0.06	0-215	8Ø	24x24	OMNI-AA	NOTE 7
SG-1	SUPPLY	ALUMINUM	13	0.028	0-50	-	6x6	300FS	NOTE 1
SG-2	SUPPLY	ALUMINUM	13	0.020	0-130	-	12x6	300FS	NOTE 1
SG-3	SUPPLY	ALUMINUM	12	0.028	0-100	-	12x6	S300FS	NOTE 2
LD-1	LINEAR SUPPLY	ALUMINUM	16	0.032	40/LF	-	-	ML-39, 2-SLOT	NOTE 5
LD-2	LINEAR SUPPLY	ALUMINUM	16	0.032	65/LF	-	-	ML-39, 3-SLOT	NOTE 5
LD-3	LINEAR SUPPLY	ALUMINUM	19	0.032	80/LF	-	-	ML-39, 4-SLOT	NOTE 5
LD-4	LINEAR SUPPLY	ALUMINUM	15	0.010	50/LF	-	30x4	CT-480	NOTE 4,5,6
LD-5	LINEAR SUPPLY	ALUMINUM	15	0.075	50/LF	8	24" L	FT-10, 2-SLOT	NOTE 3,5
RG-1	RETURN	STEEL	18	0.05	0-860	-	14x24	33R	
RG-2	RETURN	STEEL	23	0.04	0-3,300		36x40	33R	
RG-3	RETURN	STEEL	25	0.04	0-1,100	-	36x10	33R	
EG-1	EXHAUST	ALUMINUM	16	0.032	0-120	-	8x8	350FL	
EG-2	EXHAUST	ALUMINUM	12	0.090	0-100	6	12x12	OMNI AA	NOTE 1
TG	TRANSFER	ALUMINUM	16	0.032	0-200	-	10x8	350FL	NOTE 5

COMMENTS:
1. PROVIDE WITH INTEGRAL FACE-OPERATED OPPOSED BLADE DAMPER FOR CONCEALED LOCATIONS.
2. PROVIDE WITH INTEGRAL AIR-SCOOP DAMPER.
3. ADJUSTABLE HIGH-THROW PATTERN WITH TITUS LINED PLENUM. PROVIDE WITH BORDER FOR INSTALLATION IN T-BAR ACT CEILING.
4. PROVIDE CABLE OPERATED BALANCING DAMPERS WHERE INDICATED.
5. PROVIDE ACOUSTICALLY LINED PLENUMS FOR LINEAR DIFFUSERS AND TRANSFER DUCTS
6. PENCIL-PROOF CORE WITH 1" LAY-IN BORDER AND SPRING CLIP FASTENING.
7. PROVIDE WITH FACTORY NECK-MOUNTED EQUALIZING GRID.

LOUVER SCHEDULE

TAG	LOCATION	TYPE	OVERALL HEIGHT (IN.)	OVERALL WIDTH (IN.)	DEPTH (IN.)	ACTIVE HEIGHT (IN.)	ACTIVE WIDTH (IN.)	ACTIVE FREE AREA (SQFT)	CFM	PRESSURE DROP (IN H2O)	AIRFLOW VELOCITY (FPM)	BASIS OF DESIGN MANUFACTURER MODEL
L-1	EQUIPMENT RM	INTAKE	60	60	5	48	24	3.60	1750	0.05	486	RUSKIN EME-520DD
L-2	EQUIPMENT RM	EXHAUST	60	60	5	30	24	2.03	1350	0.09	665	RUSKIN EME-520DD
L-3	STORAGE 010A	EXHAUST	12	30	5	14	30	0.99	980	0.17	984	RUSKIN EME-520DD ⚠1

COMMENTS:
1. PROVIDE LOUVERS WITH ALUMINUM BIRD SCREEN ON INTERIOR, 5/8" MESH. PROVIDE ACCESS DOOR AT PLENUM FOR SCREEN MAINTENANCE.
2. PROVIDE 2" R-10 INSULATED METAL SANDWICH BLANKING PANELS BEHIND INACTIVE LOUVER SECTIONS. SEE PLAN AND SECTION DRAWINGS FOR LOCATIONS OF ACTIVE AND INACTIVE LOUVER SECTIONS.
3. LOUVERS TO BE STATIONARY, EXTRUDED ALUMINUM, DRAINABLE TYPE, AMCA 511 CERTIFIED FOR WIND DRIVEN RAIN, AIR AND WATER PENETRATION AND AMCA 500-L CLASS A RATED FOR WIND DRIVEN RAIN AT THE DESIGN FREE AREA VELOCITY AND AIRFLOW.
4. 2" BLADE SPACING. FIELD CONFIRM EXACT LOUVER HEIGHT AND WIDTH BASED ON EXISTING OPENING DIMENSIONS.

HVAC ELECTRIC HEATER SCHEDULE

TAG	LOCATION	HEATING CAPACITY BTU/HR	HEATING CAPACITY (Kw)	CFM	TYPE	THROW (FT)	MOTOR HP	V/PH/HZ	BASIS OF DESIGN MANUFACTURER/MODEL	NOTES
EUH-1	EQUIPMENT RM	10,200	3	380	HORIZONTAL UNIT HEATER	12	1/40	208/1/60	MODINE HER 30	1, 2
EUH-2	EQUIPMENT RM	10,200	3	380	HORIZONTAL UNIT HEATER	12	1/40	208/1/60	MODINE HER 30	1, 2
EUH-3	ELECTRICAL RM	10,200	3	380	HORIZONTAL UNIT HEATER	12	1/40	208/1/60	MODINE HER 30	1, 2
ECH-1	VESTIBULE	10,200	3	250	WALL MOUNTED CABINET	-	-	208/1/60	INDEECO 922U03000C	1, 2
ECH-2	BASEMENT VESTIBULE	3,850	1.1	160	WALL MOUNTED CABINET	-	-	208/1/60	INDEECO 932U01500V	1, 2
ECH-3	VARIOUS LOCATIONS, BASEMENT	2,260	0.75	-	WALL MOUNTED CONVECTOR	-	-	208/1/60	INDEECO 942U01000V	1, 2

COMMMENTS:
1. PROVIDE WITH PAINTED CORROSION RESISTANT STEEL CASING
2. PROVIDE WITH 24V CONTROL RELAY (LOW VOLTAGE CONTROL OPTION)

ELECTRIC DUCT HEATER SCHEDULE

TAG	SERVICE	HEATING CAPACITY (BTU/HR)	HEATING CAPACITY (kW)	CFM	TYPE	TEMP RISE (DEG F)	V/PH/HZ	BASIS OF DESIGN MANUFACTURER/MODEL	COMMENTS
EDH-1	FIRST FLOOR, EVAP-9	20,472	6	1,100	SLIP IN DUCT HEATER	17.2	208/3/60	INDEECO QUA	1,2,3,4
EDH-2	FIRST FLOOR, EVAP-10	20,472	6	1,100	SLIP IN DUCT HEATER	17.2	208/3/60	INDEECO QUA	1,2,3,4
EDH-3	FIRST FLOOR, EVAP-12	20,472	6	1,100	SLIP IN DUCT HEATER	17.2	208/3/60	INDEECO QUA	1,2,3,4
EDH-4	FIRST FLOOR, EVAP-13	20,472	6	1,100	SLIP IN DUCT HEATER	17.2	208/3/60	INDEECO QUA	1,2,3,4
EDH-5	DOAS-2 OA PRE-HEAT	17,060	5	950	SLIP IN DUCT HEATER	16.6	208/3/60	INDEECO FINNED TUBULAR	1,2,3,5
EDH-6	DOAS-1 OA PRE-HEAT	8,530	2.5	500	SLIP IN DUCT HEATER	15.8	208/3/60	INDEECO FINNED TUBULAR	1,2,3,5
EDH-7	DOAS-2 POST-HEAT (BACK-UP)	23,884	7	950	SLIP IN DUCT HEATER	23.3	208/3/60	INDEECO QUA	1,2,3,4
EDH-8	DOAS-1 POST-HEAT (BACK-UP)	11,942	3.5	500	SLIP IN DUCT HEATER	22.1	208/3/60	INDEECO QUA	1,2,3,4

COMMMENTS:
1. MODULATING SCR CONTROL VIA 0-10V INPUT, 24V CONTROL SECONDARY WITH OVERCURRENT PROTECTION.
2. INTEGRAL NEMA 1 CONTROL BOX WITH DOOR INTERLOCK DISCONNECT SWITTCH
3. AIRFLOW PROVING SWITCH AND MANUAL AND AUTOMATIC THERMAL CUT-OUT SWITCHES
4. 80% NICKEL-20% CHROMIUM OPEN COIL HEATING ELEMENT
5. FINNED TUBULAR HEATING ELEMENT. 80% NICKEL-20% CHROMIUM WIRE IN MAGNESIUM OXIDE PACKING, TUBULAR STEEL SHEATH WITH SPIRAL WOUND COPPER-PLATED STEEL FINS.

VRF BRANCH SELECTOR BOX SCHEDULE

TRANE-MITSUBISHI AS BASIS OF DESIGN

TAG	LOCATION	OUTDOOR UNIT SERVICE	INDOOR UNIT SERVICE	PORTS	REF.	CAPACITY (MBH)	ELECTRICAL			SOUND (dBA)	WEIGHT (LBS.)	MODEL
							VOLT/PH/HZ	MCA	MOCP			
BB-1	STAFF RM	CU-2	EVAP-1,2,3,4,5,6,14	8	R-32	76.00 ⚠1	208/1/60	0.13 ⚠1	15	56	139	CMB-M108NU-MA-SV ⚠1

COMMENTS:
1. PROVIDE WITH INTERNAL FACTORY CONDENSATE DRAIN PUMP
2. PROVIDE WITH A2L REFRIGERANT LEAK DETECTOR AND INTERNAL LEAK MITIGATION SOLENOID VALVES FOR EACH BRANCH CONNECTION ⚠1

HEAT PUMP INDOOR UNIT SCHEDULE

TRANE-MITSUBISHI AS BASIS OF DESIGN

GENERAL INFORMATION			COOLING PERFORMANCE				HEATING PERFORMANCE	REFRIGERANT CONNECTIONS		ELECTRICAL							
EQUIP. NO.	LOCATION	SERVICE	MBH TOTAL CAPACITY	MBH SENS. CAPACITY	EXT. STATIC PRESS. (in)	CFM L-H	MBH CAPACITY	LIQUID (in)	SUCTION (in)	VOLT/PH/Hz	MCA	MOCP	FLA	TYPE	SOUND PRESS. (dBA)	WEIGHT (lbs.)	MODEL NO.	COMMENTS
EVAP-1	BASEMENT	COMMUNITY RM	27.31	19.57	0.8	613-875	26.04	3/8	5/8	230/1/60	4.13	15	N/A	MULTI-POSITIONED AH UNIT	47	141	TPVFYP030AM1M0A	HEAT PUMP 1,3,4,5,7
EVAP-2	BASEMENT	STAFF ROOM	10.93	7.65	N/A	152-297	10.34	1/4	1/2	230/1/60	0.24	15	0.19	HIGH WALL MOUNTED UNIT	41	24	TPKFYP012LM1M0A	HEAT PUMP 1,2,3,5,7
EVAP-3	BASEMENT	CORR./LOBBY	5.46	4.54	0.2 ⚠1	179-247 ⚠1	5.13	1/4	1/2	230/1/60	0.79 ⚠1	15	0.63	CEILING-CONCEALED DUCTED	28	42 ⚠1	TPEFYP006MS1M0A	HEAT PUMP 1,2,3,5,7
EVAP-4	BASEMENT	NEW LIBRARY SPC. S.	5.46	4.28	N/A	141-191	5.13	1/4	1/2	230/1/60	0.24	15	0.19	HIGH WALL MOUNTED UNIT	31	24	TPKFYP006LM1M0A	HEAT PUMP 1,2,3,5,7
EVAP-5	BASEMENT	EMR ROOM	10.93	7.65	N/A	152-297	10.34	1/4	1/2	230/1/60	0.24	15	0.19	HIGH WALL MOUNTED UNIT	41	24	TPKFYP012LM1M0A	HEAT PUMP 1,2,3,5,7
EVAP-6	BASEMENT	WORKROOM	3.64	3.09 ⚠1	N/A	117-148	3.45 ⚠1	1/4	1/2	230/1/60	0.24	15	0.19	HIGH WALL MOUNTED UNIT	28	24	TPKFYP004LM1M0A ⚠1	HEAT PUMP 1,2,3,5,7
EVAP-7	BASEMENT	IT ROOM	20.87	15.73	N/A	635-775	-	3/8	5/8	230/1/60	POWERED FROM OUTDOOR UNIT			HIGH WALL MOUNTED UNIT	45	46	PKA-AK24NL	COOLING ONLY 1,2,5,6,7,8
EVAP-8	FIRST FLOOR	1ST FLOOR STACKS	11.64	8.71	N/A	152-297 ⚠1	11.94	1/4	1/2	230/1/60	0.24 ⚠1	-	0.19	HIGH WALL MOUNTED UNIT	41	24 ⚠1	TPKFYP012LM1M0A	HEAT PUMP 1,2,3,5,7
EVAP-9	BASEMENT	1ST FLOOR PERIMETER	34.91	26.51	0.8	767-1095	33.82	3/8	5/8	230/1/60	4.13	15	N/A	MULTI-POSITIONED AH UNIT	49	141	TPVFY036AM1M0A	HEAT PUMP 1,4,3,5,7
EVAP-10	BASEMENT	1ST FLOOR PERIMETER	34.91	26.51	0.8	767-1095	33.82	3/8	5/8	230/1/60	4.13	15	N/A	MULTI-POSITIONED AH UNIT	49	141	TPVFY036AM1M0A	HEAT PUMP 1,4,3,5,7
EVAP-11	MEZZANINE	MEZZANINE	11.64	8.71	N/A	152-297 ⚠1	11.83	1/4	1/2	230/1/60	0.24 ⚠1	-	0.19	HIGH WALL MOUNTED UNIT	41	24 ⚠1	TPKFYP012LM1M0A	HEAT PUMP 1,2,3,5,7
EVAP-12	BASEMENT	1ST FLOOR PERIMETER	34.91	26.51	0.8	767-1095	33.50	3/8	5/8	230/1/60	4.13	15	N/A	MULTI-POSITIONED AH UNIT	49	141	TPVFY036AM1M0A	HEAT PUMP 1,3,4,5,7
EVAP-13	BASEMENT	1ST FLOOR PERIMETER	34.91	26.51	0.8	767-1095	33.50	3/8	5/8	230/1/60	4.13	15	N/A	MULTI-POSITIONED AH UNIT	49	141	TPVFY036AM1M0A	HEAT PUMP 1,3,4,5,7
EVAP-14	BASEMENT	EQUIPMENT ROOM	5.46	4.28 ⚠1	N/A	141-191	5.13 ⚠1	1/4	1/2	230/1/60	0.24	15	0.19	HIGH WALL MOUNTED UNIT	31	24	TPKFYP006LM1M0A ⚠1	HEAT PUMP 1,2,3,5,7

COMMENTS:
1. REFRIGERANT PIPE SIZING SHALL BE AS PER MANUFACTURES REQUIRMENTS AND PIPING. DIAGRAMS, CHARGE SYSTEM WITH ADDITIONAL REFRIGERANT QUALITY PER MANUFACTURERS RECOMMENDATIONS. FOR REFRIGERANT TYPE AND ADDITIONAL REQUIREMENTS SEE CU-1 THROUGH 4 SCHEDULE. ⚠1
2. PROVIDE HONEYCOMB MESH FILTERS FOR EVAP-2,3,4,5,6,7,8,11,14 (HIGH-WALL AND CONCEALED DUCTED UNITS).
3. PROVIDE A2L REFRIGERANT LEAK DETECTOR WITH AIR CIRCULATION CONTROL FOR ALL UNITS EXCEPT EVAP-7. SEE SPECIFICATIONS AND CONTROL DRAWINGS FOR ADDITIONAL INFORMATION. ⚠1
4. PROVIDE EXTERNAL 4" FILTER BOX WITH PLEATED 4" MERV 8 FILTER FOR EVAP-1,9,10,12,13 (MULTI-POSITION AHU).
5. PROVIDE WIRED WALL MOUNTED REMOTE CONTROLLER FOR ALL INDOOR UNITS.
6. PROVIDE BACNET INTERFACE FOR EVAP-7. SEE CONTROLS DRAWING M-700 FOR ADDITIONAL INFORMATION.
7. PROVIDE ALL INDOOR UNITS WITH INTERNAL FACTORY CONDENSATE DRAIN PUMP.
8. EVAP-7 POWERED FROM OUTDOOR UNIT CU-2. PROVIDE 12-3+G CONDUCTORS BETWEEN INDOOR AND OUTDOOR UNIT. SEE ELECTRICAL DRAWINGS.

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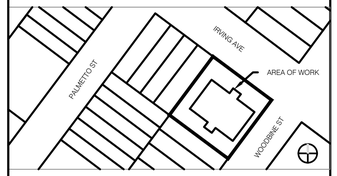
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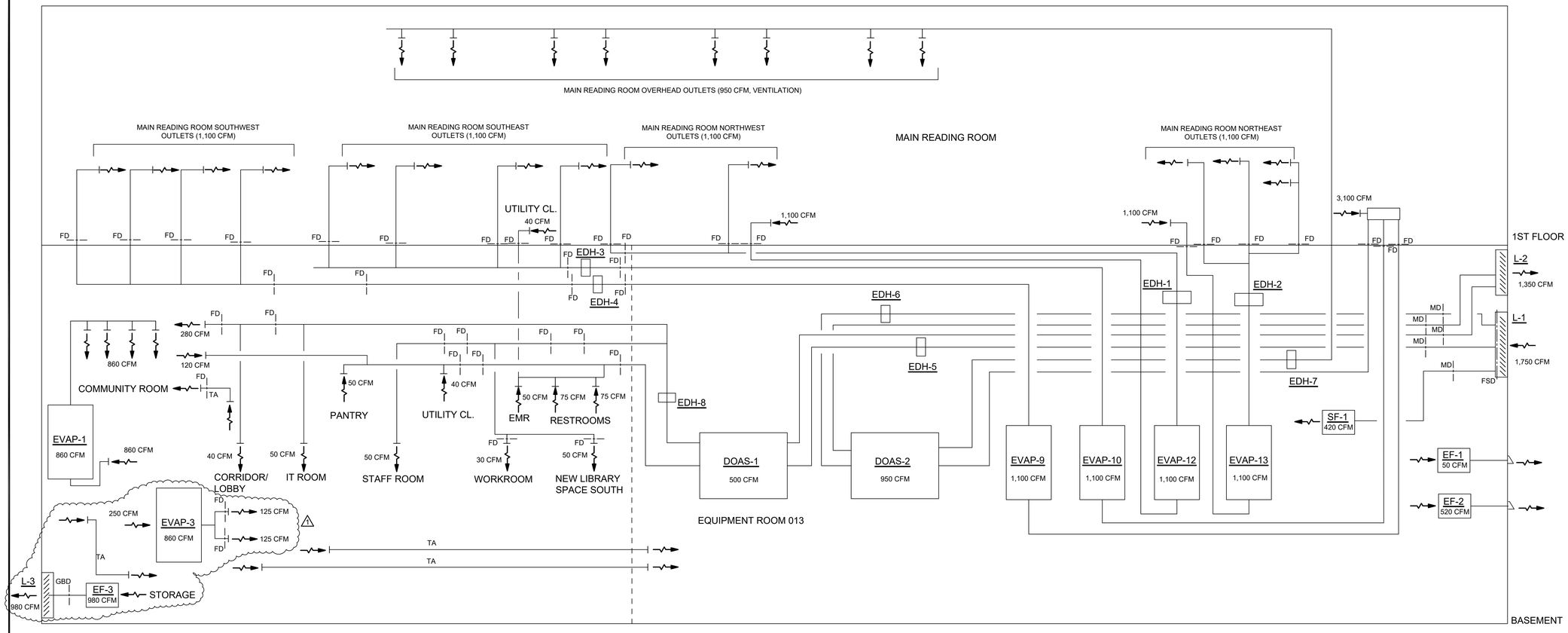
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01 AIR RISER DIAGRAM
SCALE: N.T.S.

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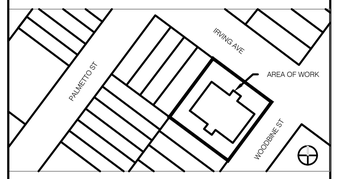
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MECHANICAL AIR RISER DIAGRAM

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

CITY MULTI

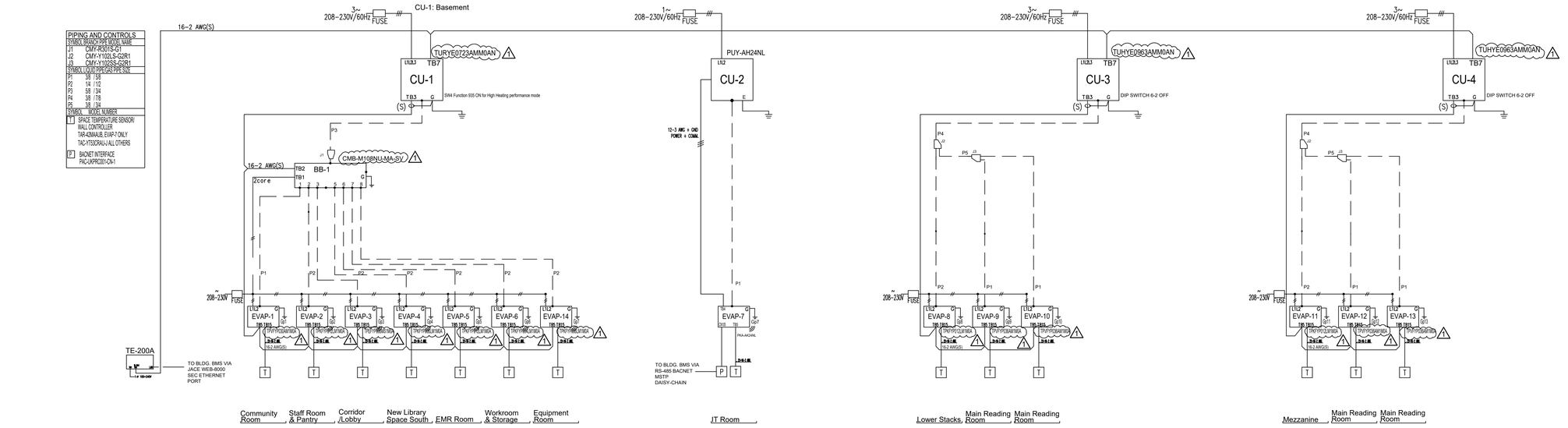
SYSTEM SCHEMATIC DWG.

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.

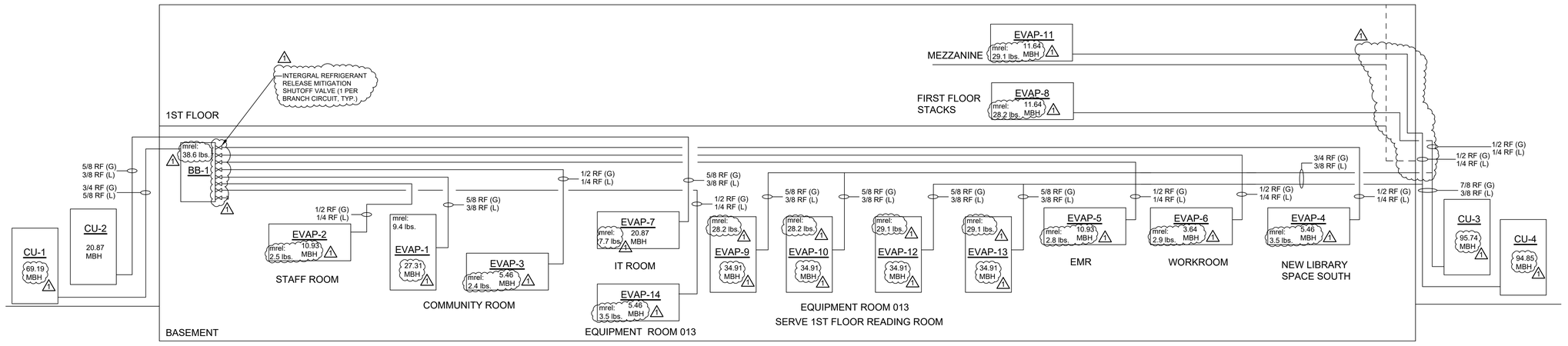
1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R301S-G1
J2	CMY-Y102LS-G2R1
J3	CMY-Y102SS-G2R1
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 1/2
P3	5/8 / 3/4
P4	3/8 / 7/8
P5	3/8 / 1/4
SYMBOL	MODEL NUMBER
T	SPACE TEMPERATURE SENSOR/ WALL CONTROLLER TAR-40MAUB, EVAP-T ONLY TAC-YT53ZRAU-ALL OTHERS
P	BACNET INTERFACE PAC-IAPR201C0N-1



01 VRF SYSTEM DIAGRAM

SCALE: N.T.S.



VRF SYSTEM NOTES:

1. THIS RISER IS DIAGRAMMATICAL AND SHOWS THE GENERAL INTENT AND ARRANGEMENT OF THE VRF SYSTEM AND COMPONENTS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER PRODUCED VRF SYSTEM DIAGRAM WITH REVISED PIPING SIZES AND QUANTITIES AND RELEASABLE REFRIGERANT QUANTITIES (mrel) AS REQUIRED, FOR THE ENGINEER'S REVIEW BASED ON THE ACTUAL FIELD CONDITIONS AND EXACT ROUTING. ⚠1

02 REFRIGERANT PIPING RISER DIAGRAM

SCALE: N.T.S.

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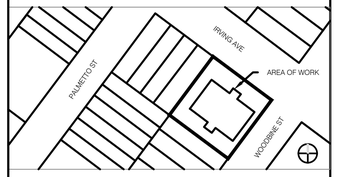
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VRF SYSTEM DIAGRAM

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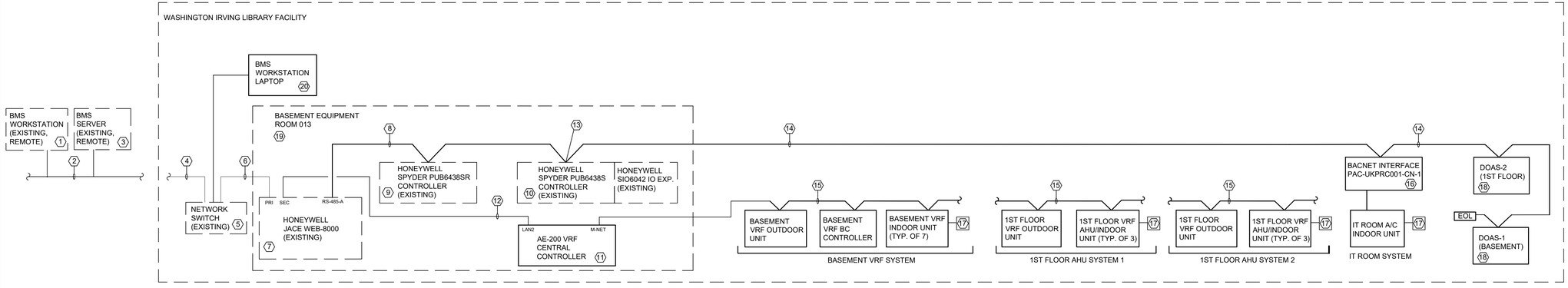
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HVAC CONTROLS NETWORK KEYNOTES:

1. EXISTING BPL BMS WORKSTATION (REMOTE)
2. EXTERNAL TCP/IP NETWORK/INTERNET.
3. EXISTING BPL BMS SERVER (REMOTE). CONTRACTOR SHALL FULLY INTEGRATE NEW BMS WORK WITH EXISTING SERVER AND BMS INTERFACE/GRAPHICS. WORK SHALL INCLUDE SOFTWARE AND GRAPHIC UPDATES TO INCLUDE NEW EQUIPMENT
4. EXISTING BUILDING TCP/IP INTERNET CONNECTION
5. EXISTING NETWORK SWITCH (IT ROOM)
6. EXISTING BUILDING TCP/IP NETWORK. EXTEND CAT6 CABLING AS REQUIRED FOR CONTROLLER RELOCATION.
7. EXISTING HONEYWELL JACE WEB-8000 CONTROLLER. INTEGRATE NEW BMS DEVICES/CONTROLLERS VIA BACNET MSTP THROUGH CONTROLLER. PROVIDE ALL REQUIRE SOFTWARE/FIRMWARE UPDATES TO MAKE SYSTEM COMPATIBLE WITH NEW EQUIPMENT AND PROGRAMMING UPDATES.
8. EXISTING BACNET MSTP RS-485 COMMUNICATION. REROUTE AS REQUIRED FOR CONTROLLER RELOCATIONS. REMOVE EXISTING EOL RESISTOR AND EXTEND DAISY-CHAIN TO NEW DEVICES/CONTROLLERS.
9. EXISTING HONEYWELL SPYDER PUB6438SR CONTROLLER. TO BE REPROGRAMMED FOR I/O CONNECTION OF AUXILIARY HVAC DEVICES (MECHANICAL SPACE TEMP SENSORS, DUCT HEATERS, DAMPERS, ETC.). PROVIDE ALL REQUIRE SOFTWARE/FIRMWARE UPDATES TO MAKE SYSTEM COMPATIBLE WITH NEW EQUIPMENT AND PROGRAMMING UPDATES.
   - (4) DIGITAL INPUTS
   - (6) UNIVERSAL INPUTS
   - (8) DIGITAL OUTPUTS
   - (3) ANALOG OUTPUTS

   PROVIDE ADDITIONAL EXPANSION MODULES AS REQUIRED TO FOR THE NUMBER AND TYPES OF CONTROL POINTS SHOWN IN THE DIAGRAMS AND DESCRIBED BY THE SEQUENCES.
10. EXISTING HONEYWELL SPYDER PUB6438SR CONTROLLER WITH SIO6042 EXPANSION MODULE. TO BE REPROGRAMMED FOR I/O CONNECTION OF AUXILIARY HVAC DEVICES (MECHANICAL SPACE TEMP SENSORS, DUCT HEATERS, DAMPERS, ETC.). PROVIDE ALL REQUIRE SOFTWARE/FIRMWARE UPDATES TO MAKE SYSTEM COMPATIBLE WITH NEW EQUIPMENT AND PROGRAMMING UPDATES.
    - (4) DIGITAL INPUTS
    - (12) UNIVERSAL INPUTS
    - (10) DIGITAL OUTPUTS
    - (7) ANALOG OUTPUTS

    PROVIDE ADDITIONAL EXPANSION MODULES AS REQUIRED TO FOR THE NUMBER AND TYPES OF CONTROL POINTS SHOWN IN THE DIAGRAMS AND DESCRIBED BY THE SEQUENCES.
11. NEW AE-200 VRF CENTRAL CONTROLLER. VRF SYSTEM TO BE INTEGRATED INTO EXISTING BMS THROUGH JACE WITH COMMAND, STATUS AND ALARMS VIA BMS PER SEQUENCE OF OPERATION.
12. NEW BACNET IP COMMUNICATION BETWEEN VRF CENTRAL CONTROLLER AND EXISTING JACE WEB-8000 CONTROLLER SECONDARY ETHERNET PORT VIA CAT 6 CABLE.
13. REMOVE EXISTING EOL RESISTOR AND EXTEND BACNET MSTP RS-485 DAISY-CHAIN TO NEW DEVICES/CONTROLLERS.
14. NEW BACNET MSTP RS-485 COMMUNICATION.
15. NEW M-NET COMMUNICATION.
16. NEW BACNET COMMUNICATION INTERFACE PAC-UKPRC001-CN-1 FOR IT ROOM INDOOR UNIT. CONNECT TO CN105 TERMINAL ON INDOOR UNIT. COMMAND, STATUS AND ALARMS VIA BMS PER SEQUENCE OF OPERATION.
17. INDOOR UNIT/AIR-HANDLER WALL CONTROLLER/THERMOSTAT. MOUNT ON INTERIOR WALL IN SPACE SERVED BY UNIT AT 5' AFF., EXCEPT WHERE USER ADJUSTMENT WILL BE PERMITTED, MOUNT WITH HIGHEST OPERABLE CONTROL AT 4' AFF. CONNECT TO INDOOR UNIT/AIR-HANDLER TB15 TERMINAL.
18. DOAS UNIT MICROPROCESSOR CONTROLLER. COMMAND, STATUS AND ALARMS VIA BMS PER SEQUENCE OF OPERATION.
19. PROVIDE NEW NEW ENCLOSURES, TERMINAL STRIPS AND WIRING TO RELOCATE EXISTING BMS CONTROLLERS TO/WITHIN EQUIPMENT ROOM 013 AS SHOWN ON THE PLANS.
20. PROVIDE NEW BMS WORKSTATION LAPTOP. CONNECT INTO BUILDING TCP/IP NETWORK. COORDINATE WITH OWNER'S IT. SEE SPECIFICATIONS.



01 HVAC CONTROLS NETWORK ARCHITECTURE

SCALE: N.T.S.

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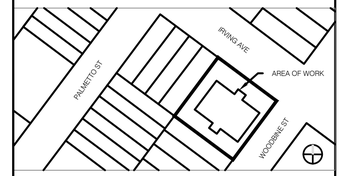
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DRAWING TITLE:
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SEAL & SIGNATURE



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LIGHTING

SYMBOL	DESCRIPTION
	CEILING/WALL EXIT LIGHT AND OUTLET BOX, LED TYPE, SELF CONTAINED, WITH BATTERY PACK: - SHADED AREA INDICATES ILLUMINATED FACE(S) - ARROW INDICATES DIRECTION

NOTE: SEE LIGHT FIXTURE SCHEDULE AND SPECIFICATIONS FOR COMPLETE FIXTURE DESCRIPTION.

WIRING DEVICES

SYMBOL	DESCRIPTION
	ANNOTATION FOR RECEPTACLE WIRING DEVICES: - GFI DENOTES GROUND FAULT TYPE - SS DENOTES SURGE SUPPRESSION TYPE - IG DENOTES ISOLATED GROUND TYPE - EM EMERGENCY TYPE -WC DENOTES WATER COOLER
EM	SIMPLEX RECEPTACLE WALL MOUNTED 20A, 125V, 2P, 3W GROUNDING
GFI	DUPLEX RECEPTACLE WALL MOUNTED 20A, 125V, 2P, 3W GROUNDING
	QUAD RECEPTACLE WALL MOUNTED 20A, 125V, 2P, 3W GROUNDING
L6-20R	SPECIAL RECEPTACLE WALL MOUNTED NEMA CONFIGURATION AS INDICATED ON PLANS
	SIMPLEX RECEPTACLE CEILING MOUNTED 20A, 125V, 2P, 3W GROUNDING
	DUPLEX RECEPTACLE CEILING MOUNTED 20A, 125V, 2P, 3W GROUNDING
	QUAD RECEPTACLE CEILING MOUNTED 20A, 125V, 2P, 3W GROUNDING
	SIMPLEX RECEPTACLE FLUSH FLOOR MOUNTED 20A, 125V, 2P, 3W GROUNDING
	DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED 20A, 125V, 2P, 3W GROUNDING
SIG	JUNCTION BOX RECESSED WALL MOUNTED: - 'SIG' DENOTES JUNCTION BOX FOR ELECTRICALLY ILLUMINATED SIGNAGE
J	RECESSED CEILING MOUNTED JUNCTION BOX
J	FLUSH FLOOR MOUNTED JUNCTION BOX

GROUNDING

SYMBOL	DESCRIPTION
	TRIANGULAR GROUND GRID - THREE 3/4" x 10'-0" RODS SPACED 30'-0" MINIMUM APART INTERCONNECTED WITH 4/0 COPPER CONDUCTOR.
	GROUND ELECTRODE CONNECTION TO EQUIPMENT

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
(2)EL	PHOTOELECTRIC SMOKE DETECTOR EL - ELEVATOR RECALL

POWER

SYMBOL	DESCRIPTION
4X	UNFUSED DISCONNECT SWITCH WITH RATING => UPSTEAM PROTECTIVE DEVICE - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
4X F 200	FUSED DISCONNECT SWITCH - NUMERICAL DENOTES FUSE SIZE - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
4X CB 225	ENCLOSED CIRCUIT BREAKER - NUMERICAL DENOTES TRIP SIZE - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
4X	MOTOR CONTROLLER: - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
4X VFD	VARIABLE FREQUENCY DRIVE CONTROLLER - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
4X 400	COMBINATION DISCONNECT SWITCH/CONTROLER - NUMERICAL DENOTES FUSE/TRIP SIZE - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
4X VFD	COMBINATION DISCONNECT SWITCH/CONTROLLER VARIABLE FREQUENCY DRIVE - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
$ TP M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD AND PILOT LIGHT
	FLEXIBLE CONNECTION
PB	PULLBOX
	SURFACE MOUNTED LTG/APPLIANCE PANELBOARD
	FLUSH MOUNTED LTG/APPLIANCE PANELBOARD
LP-3A/ 1,3,5	HOMERUN TO PANELBOARD "LP-3A": - NUMERALS DENOTE CIRCUIT NUMBERS - DESIGNATION DENOTES CIRCUIT NUMBERS, 3#12 + 1#10N-3/4" EMT, U.O.N.
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT CAPPED
	NEW CONDUIT OR EQUIPMENT
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN

LIGHTING CONTROL DEVICES

SYMBOL	DESCRIPTION
QSM	QUANTUM SENSOR MODULE (QSM) WIRELESS RECEIVER
DS OSWH	WIRED CEILING MOUNT OCCUPANCY SENSOR LOS-CDT-2000-XX
DS	WIRELESS CEILING MOUNT DAYLIGHT CENSOR
PICO 1	2 BUTTON R/L PICO PX-2BRL-XXX-XXX
OS	WIRED WALL MOUNT OCCUPTANCY SENSOR LOS-WDT-WH
	0-10V ENERGI SAVR NODE CONTROL PANEL QSN2-4T20-S

NOTE:

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED ON THIS PROJECT.

SINGLE LINE DIAGRAM

SYMBOL	DESCRIPTION
PANEL	PANELBOARD, SEE PANEL SCHEDULE FOR RATING
	FEEDER
LSI TRIP	MOLDED CASE CIRCUIT BREAKER: - 'TEXT' DENOTES CB ACCESSORIES ST, ET. GFP, EO, LSI TRIP FUNCTIONS - NUMERICAL DENOTES TRIP SIZE
GFP TRIP	LOW VOLTAGE FUSE/SWITCH UNIT - 'TEXT' DENOTES FUSE ACCESSORIES ST, GFR, EO, LO, LOCK OUT PROVISIONS - NUMERICAL DENOTES FUSE SIZE
SPARE 200	SPARE SWITCH IN DISTRIBUTION EQUIPMENT
SPACE 255	SPACE IN DISTRIBUTION EQUIPMENT
ST 225	ENCLOSED CIRCUIT BREAKER - 'TEXT' DENOTES CB ACCESSORIES - NUMERICAL DENOTES TRIP SIZE
ST 225	ENCLOSED SAFETY DISCONNECT SWITCH - 'TEXT' DENOTES FUSE ACCESSORIES - NUMERICAL DENOTES SWITCH SIZE
ST 400	ENCLOSED FUSED DISCONNECT SWITCH - 'TEXT' DENOTES FUSE ACCESSORIES - NUMERICAL DENOTES SWITCH SIZE
M	MOTOR
M	UTILITY METER
200/5	CURRENT TRANSFORMER: - '200/5' DENOTES CT RATIO IF INDICATED
(1)	POTENTIAL TRANSFORMER: - NUMERICAL DENOTES QUANTITY OF FUSES
	DELTA CONNECTION
	WYE CONNECTION

MISCELLANEOUS

SYMBOL	DESCRIPTION
P380D	FEEDER SIZE, SEE FEEDER SCHEDULE
# #	REFERENCE NOTE
A E-3	DIGITAL REFERENCE: - DETAIL DESIGNATION - SHEET NUMBER REFERENCE
EF 1	EQUIPMENT REFERENCE. COORDINATE EQUIPMENT WITH MECHANICAL/PLUMBING TRADES. SEE MECHANICAL/PLUMBING DRAWINGS FOR LOCATIONS
X / X	INDICATES SECTION NUMBER INDICATES ON WHICH DRAWING SECTION APPEARS
X	INDICATES REVISION & NUMBER

ABBREVIATIONS

A OR AMP	AMPERE	KWP	KILOWATT-PEAK
AC	ALTERNATING CURRENT	LCP	LIGHTING CONTROL PANEL
AIC	AMPS INTERRUPTING CAPACITY	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AG	ABOVE GROUND/GRADE	LVR	LOW VOLTAGE RELAY
AS/AF	AMP SWITCH/AMP FUSE	MBDP	MAIN BUILDING DISTRIBUTION PANEL
AF/AT	AMP FRAME/AMP TRIP	MCB	MAIN CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MCC	MOTOR CONTROL CENTER
AUX	AUXILIARY	MCP	MOTOR CONTROL PANEL
AWG	AMERICAN WIRE GAUGE	MDS	MAIN DISCONNECT SWITCH
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BDP	BUILDING DISTRIBUTION PANEL	MLO	MAIN LUGS ONLY
BFG	BELOW FINISHED GRADE	MSB	MAIN SWITCHBOARD
BLDG	BUILDING	(N)	NEW EQUIPMENT TO BE PROVIDED
BMS	BUILDING MANAGEMENT SYSTEM	N	NEUTRAL
C OR CDT	CONDUIT	NA, N/A	NOT APPLICABLE
CB	CIRCUIT BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT	CIRCUIT	NC	NORMALLY CLOSED
COMM	COMMUNICATION	NEC	NATIONAL ELECTRIC CODE
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NO	NORMALLY OPEN
DAS	DATA ACQUISITION SYSTEM	N.T.S.	NOT TO SCALE
DC	DIRECT CURRENT	P	POLE(S)
DDC	DIGITAL DATA CONTROL	PB	PULL BOX
DISC	DISCONNECT	PH	PHASE
DWG	DRAWING	REF	REFERENCE
EA	EACH	RGS	RIGID GALVANIZED STEEL CONDUIT
EC	ELECTRICAL CONTRACTOR	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SCH80	SCHEDULE 80
EM	EMERGENCY	SEC.	SECTION
EMH	ELECTRICAL MANHOLE	SLD	SINGLE LINE DIAGRAM
EMT	ELECTRICAL METALLIC TUBING	SPEC	SPECIFICATION
ER	EXISTING TO BE REPLACED	SPD	SURGE PROTECTION DEVICE
ETR	EXISTING TO REMAIN	SPDT	SINGLE POLE DOUBLE THROW
FACP	FIRE ALARM CONTROL PANEL	SPST	SINGLE POLE SINGLE THROW
FL	FLOOR	ST	SHUNT TRIP
FLA	FULL LOAD AMPS	SW	SWITCH
FSD	FIRE SMOKE DAMPER	SWBD	SWITCHBOARD
G, GND	GROUND	SWGR	SWITCHGEAR
GDP	GENERATOR DISTRIBUTION PANEL	THWN	THERMOPLASTIC HEAT AND WATER RESISTANT NYLON COAT
GEC	GROUND ELECTRODE CONDUCTOR	TYP	TYPICAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
GRS	GALVANIZED RIGID STEEL CONDUIT	UNF	UNFUSED
HP	HORSE POWER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HZ	HERTZ	UL	UNDERWRITERS LABORATORY
IMP	MAXIMUM POWER CURRENT	UON	UNLESS OTHERWISE NOTED
ISC	SHORT CIRCUIT CURRENT	UV	UNIT VENTILATOR
JB, J	JUNCTION BOX	V	VOLTS
KCMIL	THOUSAND CIRCULAR MILS	VA	VOLT-AMPERES
KVA	KILOVOLT AMPERE	VIF	VERIFY IN FIELD
KW	KILOWATT	W	WATT
KWH	KILOWATT-HOUR	WP	WEATHERPROOF
		XFMR	TRANSFORMER

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
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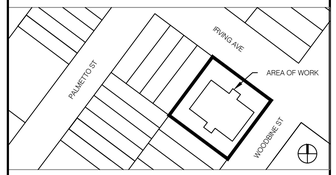
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
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PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
ELECTRICAL SYMBOLS AND ABBREVIATIONS

SEAL & SIGNATURE

GREGORY E. MUELLER — STATE OF NEW YORK — 026569 — LICENSED PROFESSIONAL ENGINEER

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	VS
CHECKED BY:	JK
DRAWING NUMBER:	**E-001.00**
CAD FILE No:	

ELECTRICAL GENERAL NOTES

1. THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THIS CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS CONSISTENT WITH PROJECT CRITERIA.
3. INSTALLATION SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE 2008 NATIONAL ELECTRICAL CODE AMENDED BY NYC 2011 AMENDMENTS, NYC BC 2022, NYC ENERGY CODE 2020, NYC FIRE CODE 2022, 2010 ADA STANDARDS, ALL LOCAL CODES AND ORDINANCES.
4. EXACT LOCATION OF LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN OR AS DIRECTED BY THE ARCHITECT.
5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CEILING WORK WITH CEILING CONTRACTOR AND DETERMINE CEILING TYPE PRIOR TO FURNISHING OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, OR ANY OTHER CEILING MOUNTED ELECTRICAL ELEMENTS. ELECTRICAL WORK SHALL ALSO BE COORDINATED WITH LOCATION OF DIFFUSERS, SPRINKLERS AND OTHER MECHANICAL WORK.
6. EXACT LOCATION AND MOUNTING OF LIGHTING FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH THE MECHANICAL TRADES TO AVOID CONFLICT WITH PIPING, DUCTS AND EQUIPMENT. IN GENERAL, THE FINAL LOCATION OF LIGHTING FIXTURES SHALL BE GOVERNED BY THE NEED OF TASK LIGHTING IN THE VICINITY OF PANELBOARDS, MOTOR CONTROLS, CONTROLS AND INSTRUMENT PANELS AND GAUGES.
7. LOCATION OF OUTLETS AND SWITCHES IN FINISHED ROOMS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATION OF BOXES AND OUTLETS ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATION IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIMS, PANELING, SUSPENDED CEILING AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER.
8. JUNCTION AND PULL BOXES SHALL GENERALLY BE LOCATED FOR FLUSH MOUNTING IN FINISHED SPACES. WHERE NECESSARY, CONDUIT SHALL BE REROUTED OR OTHER ARRANGEMENTS SHALL BE MADE FOR CONCEALMENT. PULL BOXES SHALL BE PROVIDED AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATION WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PULL BOXES SHALL BE PROVIDED EVERY 100 FEET AND AS INDICATED OR NECESSARY.
9. SEPARATE BOXES OR WIREWAYS SHALL BE PROVIDED FOR EMERGENCY AND NORMAL WIRING.
10. ALL OUTLET BOXES RECEIVING 1-1/4" CONDUIT SHALL BE A MINIMUM OF 2-1/2"DEEP.
11. BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. WALL AND SWITCH OUTLETS SHALL BE ERECTED IN ADVANCE OF FURRING AND FIREPROOFING. BOXES SHALL BE SECURED TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
12. LOCATIONS INDICATED FOR WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. SWITCH SHALL BE INSTALLED ON SIDE OPPOSITE HINGE (FINAL DOOR HINGE LOCATION SHALL BE VERIFIED IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION).
13. ALL SUPPORTS TO BUILDING STRUCTURE SHALL BE SECURED AS NOTED IN THE SPECIFICATIONS. HORIZONTAL RUNS OF METALLIC CONDUIT SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 10 FEET APART. RACEWAY RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL. EXPOSED RACEWAYS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
14. PANELS, JUNCTION BOXES AND PULL BOXES SHALL BE SUPPORTED INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUIT.
15. ALL REQUIRED ACCESS DOORS SHALL BE FURNISHED UNDER THE ELECTRICAL SECTION AND INSTALLED UNDER GENERAL CONSTRUCTION. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO INSTALLATION.
16. ALL OPERABLE SWITCHES, CONTROLS, OUTLETS, F.A PULL STATIONS, AND/OR THERMOSTATS MUST BE INSTALLED WITHIN A PERMITTED REACH RANGE COMPLIANT WITH ADAAG SECTION 308, WHICH REQUIRES A MOUNTING HEIGHT OF 15" MIN. TO 48" MAX. AFF MEASURED TO THE HIGHEST OPERABLE PART, AS TRIGGERED BY ADAAG SECTIONS 205 AND 309.
17. ALL DISCONNECT SWITCHES AND CIRCUIT BREAKERS IN FINISHED PUBLIC AREAS SHALL BE RECESSED IN WALL OR MOUNTED IN ACCESSIBLE CEILING TO THE APPROVAL OF THE ARCHITECT AND/OR ENGINEER.
18. NO ELECTRICAL RACEWAYS SHALL BE INSTALLED WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT FOR CROSSINGS WHERE RACEWAYS SHALL BE AT LEAST 1 INCH FROM PIPE COVER.
19. HORIZONTAL OR CROSS RUNS IN PARTITIONS OR WALLS ARE NOT PERMITTED. CONDUIT SHALL NOT RUN IN PRECAST ROOF SLABS OR IN 2 INCHES SLABS.
20. OZ # EXDS EXPANSION FITTINGS WITH BONDING JUMPER SHALL BE PROVIDED WHERE CONDUIT EMBEDDED IN CONCRETE CROSS EXPANSION JOINTS. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT NUMBER, LENGTHS AND LOCATIONS OF EXPANSION JOINTS.
21. TWO (2) PROTECTIVE COATS OF ASPHALTUM COMPOUND SHALL BE PROVIDED FOR ANY GALVANIZED STEEL CONDUIT DIRECTLY BURRIED IN EARTH.
22. CONDUIT ENDS SHALL BE CUT SQUARE AND REAM SMOOTH. MALE THREADS OF FIELD THREADED CONDUIT SHALL BE PAINTED WITH GRAPHITE BASED PIPE COMPOUND AND DRAWN UP TIGHT WITH CONDUIT COUPLINGS.
23. CONDUIT TO MOTOR TERMINAL BOXES SHALL BE CONNECTED WITH "SEALTITE" FLEXIBLE CONDUIT; MINIMUM 18 INCHES IN LENGTHS WITH 50 PERCENT SLACK. RACEWAYS SHALL NOT BE TERMINATED IN, OR FASTENED TO MOTOR FOUNDATION.
24. SUFFICIENTLY LONG WIRE SLACK SHALL BE LEFT IN RUNS TO PERMIT MAKING PROPER FINAL CONNECTIONS. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH # 12 AWG STEEL DRAG WIRE.
25. THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL MORE THAN THE NUMBER OF CIRCUITS SHOWN IN ANY HOMERUN CIRCUIT.
26. WIRE COLOR CODING SHALL CONFORM TO CODE REQUIREMENTS.WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE ESTABLISHED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
27. WIRING FOR ALL LOW VOLTAGE SYSTEMS SHALL BE RUN IN SPACES ABOVE CEILING. CABLE SHALL BE ADEQUATELY HARNESSED, BUNDLED AND TIED AT 4 FOOT INTERVALS BY INDIVIDUAL SYSTEMS AND MARKED WITH IDENTIFICATION TAGS. ALL LOW VOLTAGE SYSTEM WALL OUTLETS SHALL HAVE 3/4" CONDUIT EXTENDED INTO HUNG CEILING. WHERE WIRING HAS TO BE EXPOSED, IT SHALL BE INSTALLED IN EMT CONDUIT. TERMINATION OF WIRING FIRM HUNG CEILING TO CENTRAL OR MAIN CABINETS SHALL ALSO BE INSTALLED IN EMT CONDUIT. LOW VOLTAGE WIRING IN CEILINGS USED AS AIR PLENUM SHALL BE TEFLON COATED, IN NON-AIR PLENUM CEILINGS IT SHALL BE INSTALLED IN CONDUIT.
28. 2 # 14 INDICATING PILOT LIGHT WIRES SHALL BE EXTENDED FROM PILOT LIGHT IN CONTROLLER TO LOAD SIDE OF DISCONNECT SWITCH. THESE WIRES SHALL BE INCLUDED IN BRANCH CIRCUIT CONDUIT WHICH SHALL BE INCREASED IN SIZE IF REQUIRED.
29. NO THERMOPLASTIC WIRES SHALL BE PULLED AT TEMPERATURE LOWER THAN 32 DEG. F.
30. ALL EMERGENCY LIGHTING BATTERY BACK-UP UNIT INVERTERS SHALL BE CONNECTED TO UNSWITCHED "HOT" LEGS OF LIGHTING BRANCH CIRCUITS SERVING SAME AREAS.
31. ALL EXIT SIGNS SHALL BE CONNECTED TO DEDICATED CIRCUITS AND CONNECTED TO DESIGNATED PANEL LOCKABLE TYPE CIRCUIT BREAKERS AS DIRECTED ON DRAWINGS.
32. PROVIDE GROUND BONDING JUMPERS FOR ALL MECHANICAL EQUIPMENT METAL PIPING SYSTEM THAT MAY BECOME ENERGIZED. THE BONDING JUMPERS SHALL BE INSTALLED IN ACCORDANCE WITH NEC REQUIREMENTS.

ELECTRICAL DEMOLITION NOTES

1. CONTRACTOR SHALL INCLUDE IN BID, ALL COSTS FOR REMOVAL AND RELOCATION IN THE CONTRACT. THESE COSTS SHALL INCLUDE WORK DESCRIBED IN THE CONTRACT DOCUMENTS. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
2. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL REQUIRED DEMOLITION AND RELOCATION WORK AS WELL AS PROVISION OF ALL NEW ELECTRICAL EQUIPMENT, WIRING, ETC. AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM.
3. THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR WITH ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
4. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS AND SCHEMES IN FULL COORDINATION WITH THE ARCHITECT'S DEMOLITION PLAN. ALL WORK WHICH IS NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY AND ITS ASSOCIATED WIRING, CONDUITS, ETC. SHALL BE REMOVED ENTIRELY.
5. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. POWER SHUTDOWNS OR INTERFERENCE WITH THE ACTIVE AREAS SHALL NOT BE PERMITTED WITHOUT PERMISSION OF THE BUILDING OWNER. NOTIFICATION OF THE BUILDING OWNER IN WRITING IS REQUIRED PRIOR TO APPROVAL OF ANY SHUTDOWNS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
6. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
7. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES, AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, CONTROL PANELS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS MAKES DEAD ELECTRICAL WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE THE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO THE PANELBOARD.
8. ALL RACEWAYS WHICH BECOME EXPOSED BEYOND FINISHED SURFACES BECAUSE OF THE ALTERATION WORK SHALL BE REMOVED AND REROUTED BEHIND THE FINISHED SURFACES.
9. EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.
10. ANY FIRE ALARM SYSTEM WIRING CUT OR REROUTED DURING DEMOLITION WORK SHALL BE RECONNECTED TO MAINTAIN SYSTEM OPERATION. ANY SYSTEM SHUTDOWNS MUST BE COORDINATED WITH THE OWNER. FIRE WATCHES TO BE PROVIDED AS REQUIRED AT NO ADDITIONAL COST.
11. PORTIONS OF FEEDER LINES THAT HAVE TO BE REMOVED OR ABANDONED AS RESULT OF DEMOLITION WORK, BUT ARE REQUIRE TO CONTINUE TO FUNCTION, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONE SIN ALL RESPECTS, CONDUCTOR CAPACITY, CONDUIT SIZE, ETC.
12. THE CONTRACTOR SHALL NOTIFY THE FACILITY ENGINEER AND ARCHITECT AT THE APPROPRIATE TIME OF THE PROJECT DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED SERVICES MAY BE CARRIED OUT IN COORDINATION WITH THE OWNER'S REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE. COORDINATE WITH UTILITY COMPANY FOR REMOVING AND RELOCATING OF UTILITY EQUIPMENT/METERS.
13. ALL PRESENT MATERIAL AND EQUIPMENT WHICH ARE TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE OWNER AND/OR SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE OWNER. COORDINATE WITH THE BUILDING MANAGER PRIOR TO DISPOSAL OF THESE EQUIPMENT.

DOB APPROVAL STAMP

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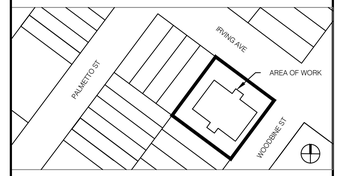
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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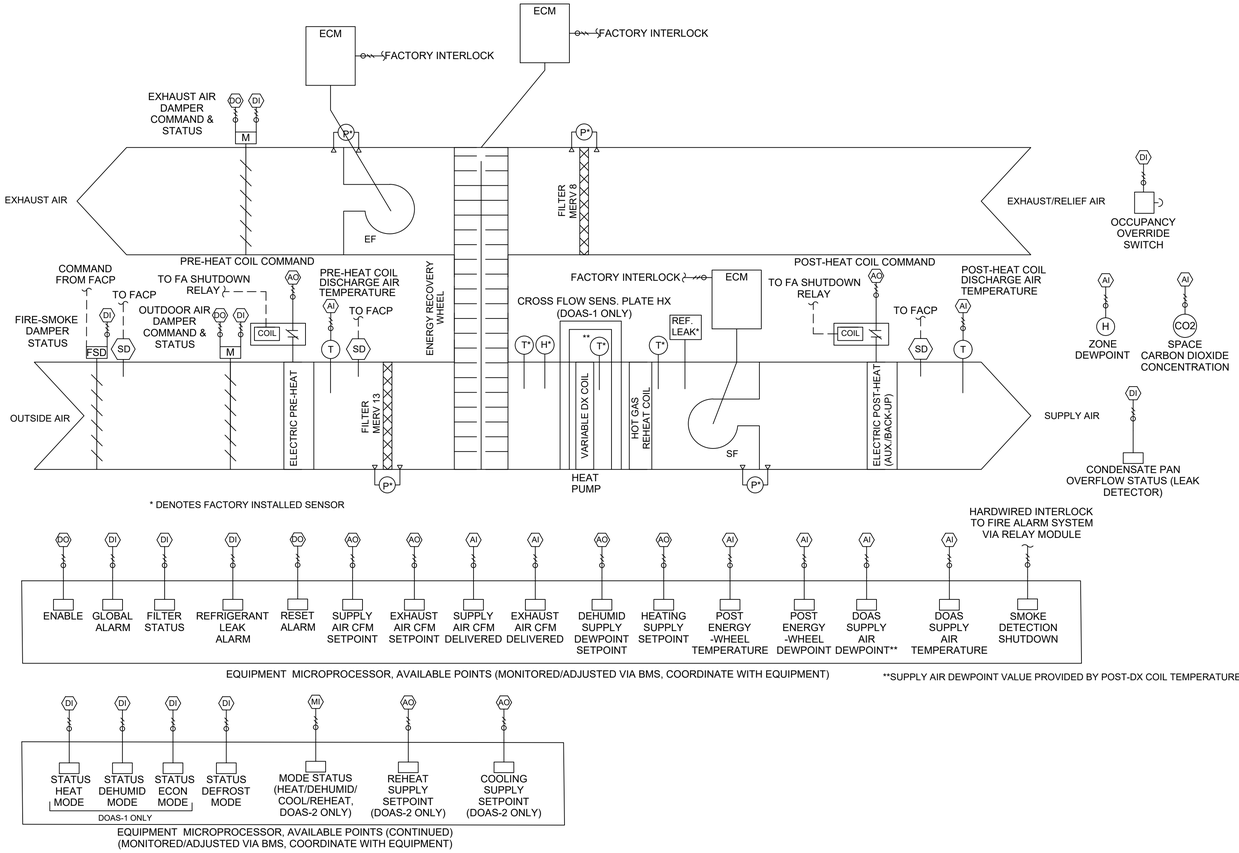
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
ELECTRICAL NOTES

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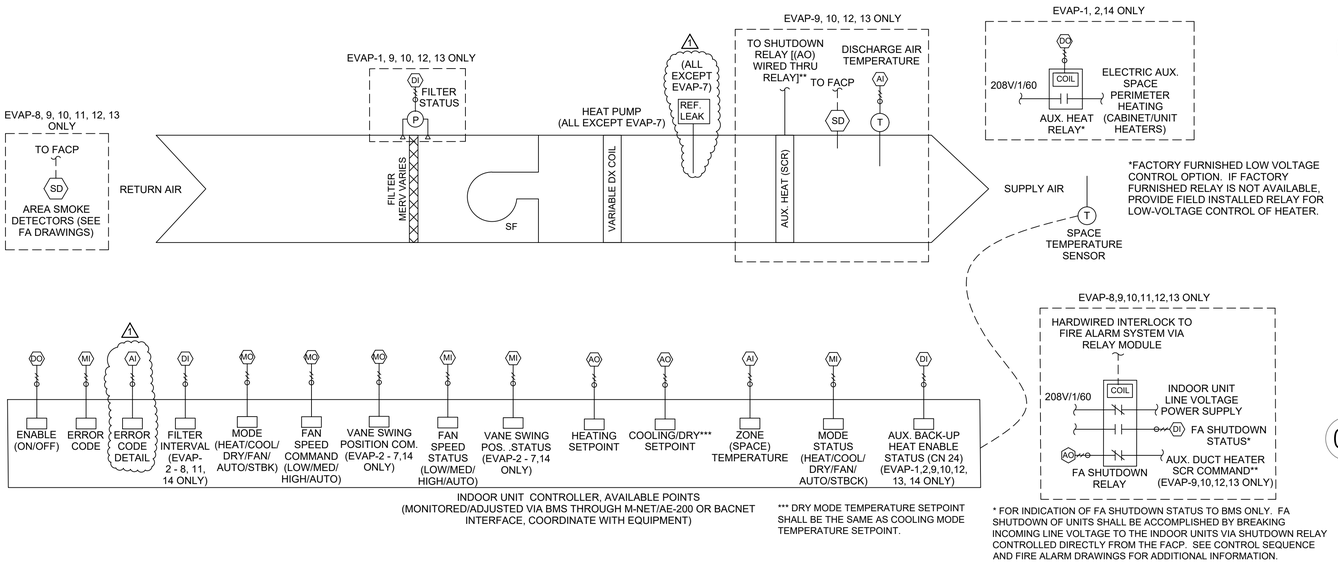


DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	VS
CHECKED BY:	JK
DRAWING NUMBER:	**E-002.00**
CAD FILE No:	



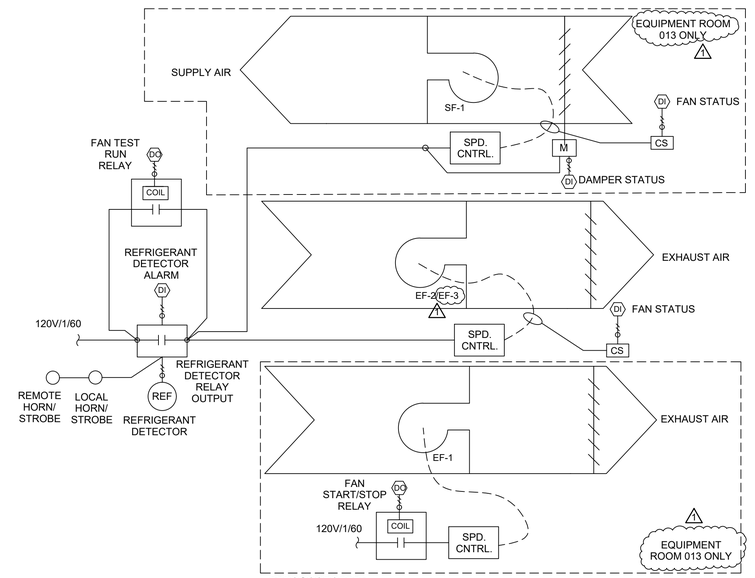
01 HEAT PUMP DOAS CONTROLS DIAGRAM (TYP. OF 2)

SCALE: N.T.S.



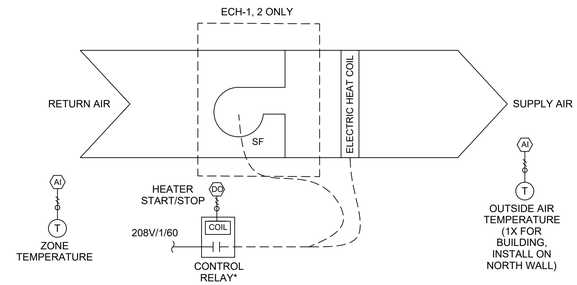
02 VRF HEAT PUMP/ A/C CONTROLS DIAGRAM (TYP. OF 14)

SCALE: N.T.S.



03 EQUIPMENT ROOM 013/CLOSET 010A VENTILATION CONTROLS DIAGRAM

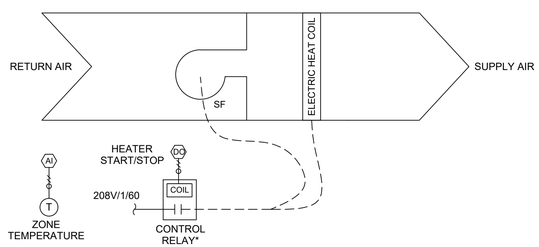
SCALE: N.T.S.



*FACTORY FURNISHED LOW VOLTAGE CONTROL OPTION. IF FACTORY FURNISHED RELAY IS NOT AVAILABLE, PROVIDE FIELD INSTALLED RELAY FOR LOW-VOLTAGE CONTROL OF HEATER.

04 STAND-ALONE CABINET HEATER CONTROLS DIAGRAM (TYP. OF 3)

SCALE: N.T.S.



*FACTORY FURNISHED LOW VOLTAGE CONTROL OPTION. IF FACTORY FURNISHED RELAY IS NOT AVAILABLE, PROVIDE FIELD INSTALLED RELAY FOR LOW-VOLTAGE CONTROL OF HEATER.

05 STAND-ALONE UNIT HEATER CONTROLS DIAGRAM (TYP. OF 3)

SCALE: N.T.S.

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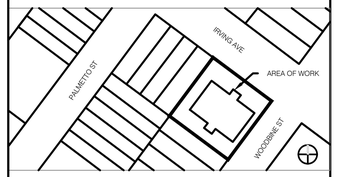
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
0	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

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PROJECT
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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
MECHANICAL CONTROLS DIAGRAMS

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	YK
CHECKED BY:	GM/AA
DRAWING NUMBER:	M-711.00
CADO FILE No:	

VRF FAN COIL UNITS WITH DX HEAT PUMP OR COOLING AND VARYING AUX. HEATING (TYPICAL OF FOURTEEN)

FUNCTION	NAME	DESCRIPTION	SETTING (WITH UNITS)	RANGE (WITH UNITS)	IO TYPE	HOA REQ'D	LDP VIEW REQ'D	M&C DISP REQ'D	M&C TREND REQ'D	LDP OVRD REQ'D	M&C OVRD REQ'D	ALARM CONDITION (SEE NOTES 4 & 6)	ALARM PRIORITY	M&C ROUTING
PROOFS & SAFETIES	<___>	<UNIT MANUFACTURER'S PROOF> (SEE NOTES)	<___>	ALM/NORMAL	<BI>	~	~	~	~	~	~	~	~	[___]
	<___>	<UNIT MANUFACTURER'S SAFETIES> (SEE NOTES>	<___>	ALM/NORMAL	<BI>	~	~	~	~	~	~	ALM	[info] [crit]	[___]
	GLBALRM-S	ERROR CODE (COMMON ALARM, SEE NOTE 7)		NORMAL/ERROR <___>	BI, MI, AI (SEE NOTE 7)	~	[X]	X	[X]	~	~	ALM	[info] [crit]	[___]
	SMK-S	SMOKE SHUTDOWN ALARM (HARDWIRE FROM FA SYSTEM, EVAP-9,10,12,13 ONLY)		ALM/NORMAL	BI	~	[X]	X	[X]	~	~	ALM	[info] [crit]	[___]
START/STOP	SYS-OCC	OCCUPANCY INPUT (FROM SYSTEM SCHEDULER)	~	<___>	BV	~	[X]	X	[~]	SEE NOTES		~	~	~
	EFF-OCC	EFFECTIVE OCCUPANCY	~	OCC/UNOCC	BV	~	[~]	X	[~]	~	~	~	~	~
	EVAP-SS	UNIT ENABLE (ON/OFF)	~	ON/OFF	BO	[~]	[X]	X	[X]	[~]	X	~	~	~
	MODE-C	UNIT MODE COMMAND	~	COOL AUTO HEAT SETBACK DRY OFF	MO	[~]	[X]	X	[X]	[~]	X	~	~	~
	MODE-S	UNIT MODE STATUS (SEE NOTES)	~	COOL AUTO HEAT SETBACK DRY OFF	MI	~	[~]	[X]	[X]	~	~	~	~	~
	FAN-C	FAN SPEED COMMAND	~	LOW MED HIGH AUTO	MO	[~]	[X]	X	[X]	[~]	X	~	~	~
	FAN-S	FAN SPEED STATUS	~	LOW MED HIGH AUTO	MI	~	[~]	[X]	[X]	~	~	~	~	~
	SWING-C	VANE SWING POSITION COMMAND (EVAP-2 THRU 7,14 ONLY)	~	SEE MANUFACT. LITERATURE	MO	[~]	[X]	X	[X]	[~]	X	~	~	~
	SWING-S	VANE SWING POSITION STATUS (EVAP-2 THRU 7,14 ONLY)	~		MI	~	[~]	[X]	[X]	~	~	~	~	~
ZONE TEMPERATURE CONTROL:	ZN-T	ZONE TEMPERATURE **	~	<___>	AI	~	[~]	X	X	~	~	**ZN-T > 5 DEG F ABOVE CLG-T-SP OR 5 DEG F BELOW HTG-T-SP	[info] [crit]	[___]
	ZN-T-SP-CLG	ZONE TEMPERATURE COOLING/DRY SETPOINT (NOTE 8,12)	[75 DEG F]	[65-85 DEG F]	AO	~	[X]	X	[X]	[X]	X	~	~	~
	ZN-T-SP-CLG-UN	ZONE TEMPERATURE COOLING SETPOINT FOR UNOCCUPIED (SETBACK) MODE (NOTE 9)	[85 DEG F]	[NOTE 10]	~	~	[X]	X	[X]	[X]	X	~	~	~
	ZN-T-SP-HTG	ZONE TEMPERATURE HEATING SETPOINT (ALL EXCEPT EVAP-7, NOTE 8)	[72 DEG F]	[55-80 DEG F]	AO	~	[X]	X	[X]	[X]	X	~	~	~
	ZN-T-SP-HTG-UN	ZONE TEMPERATURE HEATING SETPOINT FOR UNOCCUPIED (SETBACK) MODE (NOTE 9)	[55 DEG F]	[NOTE 10]	~	~	[X]	X	[X]	[X]	X	~	~	~
	AUXHTR-S	AUXILIARY/BACK-UP HEAT ENABLE (EVAP-1,2,9,10,12,13,14)	~	ON/OFF	BI	[~]	[X]	X	[X]	[~]	X	~	~	~
	AUXHTR-C	AUXILIARY/BACK-UP SPACE PERIMETER HEATING COMMAND (EVAP-1,2)	~	ON/OFF	BO	[~]	[X]	X	[X]	[~]	X	~	~	~
	AUXHTR-C	AUXILIARY/BACK-UP DUCT HEATER SCR HEAT CMND (EVAP-9,10,12,13)	~	[0-100%]	AO	[~]	[X]	X	[X]	[~]	X	~	~	~
	AUXHTR-T	AUXILIARY HEATER DISCHARGE AIR TEMPERATURE (EVAP-9,10,12,13)	~	<___>	AI	~	[~]	X	[~]	~	~	~	~	~
	AUXHTR-T-SP	AUXILIARY HEATER DISCHARGE AIR TEMPERATURE LIMIT (EVAP-9,10,12,13)	[100 DEG F]	[85-105 DEG F]	~	~	[X]	X	[X]	[X]	X			
		UNIT PID LOOP SETTINGS	<___>	~	~	~	~	~	~	~	~	~	~	~
OTHER POINTS	FLT-S	FILTER STATUS	<___>	ALM/NORMAL	BI ~ NOTE 13	~	[~]	[~]	~	~	~	FILTER DP > 0.25" W.C. (EVAP-1,8,9,12,13) TIME ELAPSED SINCE LAST FILTER CHANGE >4 MONTHS (EVAP-2 THRU 8,11,14)	[info] [crit]	[___]

DEDICATED OUTDOOR AIR SYSTEM WITH DX HEAT PUMP, HOT GAS REHEAT, AND ELECTRIC HEAT (TYPICAL OF TWO)

FUNCTION	NAME	DESCRIPTION	SETTING (WITH UNITS)	RANGE (WITH UNITS)	IO TYPE	HOA REQ'D	LDP VIEW REQ'D	M&C DISP REQ'D	M&C TREND REQ'D	LDP OVRD REQ'D	M&C OVRD REQ'D	ALARM CONDITION (SEE NOTES 4 & 6)	ALARM PRIORITY	M&C ROUTING
PROOFS & SAFETIES	<___>	<UNIT MANUFACTURER'S PROOF> (SEE NOTE 2)	<___>	ALM/NORMAL	<BI>	~	~	~	~	~	~	~	~	[___]
	<___>	<UNIT MANUFACTURER'S SAFETIES> (SEE NOTE 2>	<___>	ALM/NORMAL	<BI>	~	~	~	~	~	~	ALM	[info] [crit]	[___]
	SF-S	SUPPLY AIR CFM DELIVERED		[0 - 2000 CFM]	AI	~	[X]	X	[X]	~	~	FAN PROOF FAILED	[info] [crit]	[___]
	EF-S	EXHAUST AIR CFM DELIVERED		[0 - 2000 CFM]	AI	~	[X]	X	[X]	~	~	FAN PROOF FAILED	[info] [crit]	[___]
	OA-D-S	OUTDOOR AIR DAMPER STATUS		OPEN/CLOSED	BI	~	[X]	X	[~]	~	~	DAMPER PROOF FAILED	[info] [crit]	[___]
	EA-D-S	EXHAUST AIR DAMPER STATUS		OPEN/CLOSED	BI	~	[X]	X	[~]	~	~	DAMPER PROOF FAILED	[info] [crit]	[___]
	FS-D-S	FIRE-SMOKE DAMPER STATUS		OPEN/CLOSED	BI	~	[X]	X	[~]	~	~	DAMPER CLOSED	[info] [crit]	[___]
	GLBALRM-S	GLOBAL/COMMON ALARM		ALM/NORMAL	BI	~	[X]	X	[X]	~	~	ALM	[info] [crit]	[___]
	REFLEAK-S	REFRIGERANT LEAK ALARM		ALM/NORMAL	BI	~	[X]	X	[X]	~	~	ALM	[info] [crit]	[___]
	SMK-S	SMOKE DETC. SHUTDOWN (HARDWIRE FROM FA SYSTEM)		ALM/NORMAL	BI	~	[X]	X	[X]	~	~	ALM	[info] [crit]	[___]
	CO2-S	SPACE CO2 CONCENTRATION		[0 - 2000 PPM]	AI	~	[X]	X	[X]	~	~	CO2 CONC > 1000 PPM	[info] [crit]	[___]
START/STOP	SYS-OCC	OCCUPANCY INPUT (FROM SYSTEM SCHEDULER)	~	<___>	BV	~	[X]	X	[~]	SEE NOTES		~	~	~
	EFF-OCC	EFFECTIVE OCCUPANCY	~	OCC/UNOCC	BV	~	[~]	X	[~]	~	~	~	~	~
	DOAS-SS	DOAS ENABLED/DISABLE	~	ON/OFF	BO	[~]	[X]	X	[~]	[~]	X	~	~	~
	OA-D-SS	OUTDOOR AIR DAMPER COMMAND	~	OPEN/CLOSED	BO	[~]	[X]	X	[X]	[~]	X	~	~	~
	EA-D-SS	EXHAUST AIR DAMPER COMMAND	~	OPEN/CLOSED	BO	[~]	[X]	X	[X]	[~]	X	~	~	~
	SF-SPT	SUPPLY AIR CFM SETPOINT	[500 CFM], DOAS-1 [950 CFM], DOAS-2	[0-500 CFM], DOAS-1 [0-950 CFM], DOAS-2	AO	[~]	[X]	X	[X]	[~]	X	~	~	~
	EF-SPT	EXHAUST AIR CFM SETPOINT	[450 CFM], DOAS-1 [900 CFM], DOAS-2	[0-500 CFM], DOAS-1 [0-950 CFM], DOAS-2	AO	[~]	[X]	X	[X]	[~]	X	~	~	~
	HEAT-S	STATUS HEAT MODE (DOAS-1 ONLY; SEE NOTE 5)		ACTIVE/INACTIVE	BI	~	[X]	X	[X]	~	~	~	~	~
	DEHUMID-S	STATUS DEHUMID/COOL MODE (DOAS-1 ONLY;SEE NOTE 5)		ACTIVE/INACTIVE	BI	~	[X]	X	[X]	~	~	~	~	~
	ECON-S	STATUS ECONOMIZER MODE(DOAS-1 ONLY; SEE NOTE 5)		ACTIVE/INACTIVE	BI	~	[X]	X	[X]	~	~	~	~	~
	UNIT STATUS	UNIT MODE STATUS (DOAS-2 ONLY; SEE NOTE 5)	~	DEHUMID COOL REHEAT HEAT ON/FAN (ECON) OFF	MI	~	[X]	[X]	[X]	~	~	~	~	~
	DEFROST-S	STATUS DEFROST MODE		ACTIVE/INACTIVE	BI	~	[X]	X	[X]	~	~	~	~	~
TEMPERATURE CONTROL:	CLG-T-SP	COOLING SUPPLY TEMPERATURE SETPOINT (DOAS-2)	[70 DEG F]	[55-80 DEG F]	AO	~	[X]	X	[X]	[X]	X	~	~	~
	HTG-T-SP	HEATING SUPPLY TEMPERATURE SETPOINT	[68 DEG F]	[55-80 DEG F]	AO	~	[X]	X	[X]	[X]	X	~	~	~
	DEW-T-SP	DEHUMID SUPPLY DEWPOINT TEMPERATURE SETPOINT	[52 DEG F]	[45-80 DEG F]	AO	~	[X]	X	[X]	[X]	X	~	~	~
	ZN-DP	ZONE DEWPOINT	~	<___>	AI	~	[~]	X	X	~	~	~	~	~
	RH-T-SP	REHEAT SUPPLY TEMPERATURE SETPOINT (DOAS-2)	[70 DEG F]	[55-80 DEG F]	AO	~	[X]	X	[X]	[X]	X	~	~	~
	SA-T	DOAS SUPPLY AIR TEMPERATURE	~	<___>	AI	~	[~]	X	[~]	~	~	[~]	~	[~]
	PREHTRDA-T	PREHEATER DISCHARGE AIR TEMPERATURE	~	<___>	AI	~	[~]	X	[~]	~	~	[~]	~	[~]
	SA-DP	DOAS SUPPLY AIR DEWPOINT (NOTE 11)	~	<___>	AI	~	[~]	X	[~]	~	~	[~]	~	[~]
	POSTERW-T	POST-ENERGY RECOVERY WHEEL TEMPERATURE	~	<___>	AI	~	[~]	X	[~]	~	~	[~]	~	[~]
	POSTERW-DP	POST-ENERGY RECOVERY WHEEL DEWPOINT (DOAS-2)	~	<___>	AI	~	[~]	X	[~]	~	~	[~]	~	[~]
	POSTHTRDA-T	POST-HEATER DISCHARGE AIR TEMPERATURE**	~	<___>	AI	~	[~]	X	[~]	~	~	**POSTHTRDA-T > 5 DEG F ABOVE CLG-T-SP OR 5 DEG F BELOW HTG-T-SP	[info] [crit]	[___]
	PREHTR-C	PRE-HEATER SCR ELECTRIC HEATING COMMAND	~	[0-100%]	AO	[~]	[X]	X	[X]	[~]	X	~	~	~
	POSTHTR-C	POST-HEATER SCR ELECTRIC HEATING COMMAND	~	[0-100%]	AO	[~]	[X]	X	[X]	[~]	X	~	~	~
		UNIT PID LOOP SETTINGS	<___>	~	~	~	~	~	~	~	~	~	~	~
OTHER POINTS	FLT-S	FILTER STATUS	<___>	ALM/NORMAL	BI	~	[~]	[~]	~	~	~	FILTER DP > FACTORY SET LIMIT	[info] [crit]	[___]
	COND-S	CONDENSATE PAN OVERFLOW STATUS	<___>	ALM/NORMAL	BI	~	[~]	[~]	~	~	~	[ALM]	[info] [crit]	[___]
	OCCOVRD-S	OCCUPANCY OVERRIDE SWITCH (NOTE 3)	<___>	ACTIVE/INACTIVE	BI	~	[~]	[~]	~	~	~		[info] [crit]	[___]

STAND-ALONE ELECTRIC UNIT HEATER OR CABINET HEATER (TYPICAL OF SIX)

FUNCTION	NAME	DESCRIPTION	SETTING (WITH UNITS)	RANGE (WITH UNITS)	IO TYPE	HOA REQ'D	LDP VIEW REQ'D	M&C DISP REQ'D	M&C TREND REQ'D	LDP OVRD REQ'D	M&C OVRD REQ'D	ALARM CONDITION (SEE NOTES 4 & 6)	ALARM PRIORITY	M&C ROUTING
START/STOP	SYS-OCC	OCCUPANCY INPUT (FROM SYSTEM SCHEDULER)	~	OCC/UNOCC	BV	~	[~]	X	[~]	SEE NOTES		~	~	~
	EFF-OCC	EFFECTIVE OCCUPANCY	~	OCC/UNOCC	BV	~	[~]	X	[~]	~	~	~	~	~
ZONE TEMPERATURE CONTROL	ZN-T	ZONE TEMPERATURE **	~	<___>	AI	~	[~]	X	X	~	~	** ZN-T MORE THAN 5 DEG F BELOW ZN-SP-T-HTG	[info] [crit]	[___]
	OA-T	OUTSIDE AIR TEMPERATURE (GLOBAL, APPLIES TO ECH-1,ECH-2, ECH-3 ONLY)	~	<___>	AI	~	[~]	X	X			[~]	~	[~]
	ZN-T-SP-HTG	ZONE TEMPERATURE HEATING SETPOINT	[60 DEG F]	[55-75 DEG F]	~	~	[~]	X	[~]	[~]	X	~	~	~
	ZN-T-SP-UNOCC	ZONE TEMPERATURE HEATING SETPOINT FOR UNOCCUPIED MODE	[55 DEG F]	[NOTE 10]	~	~	[~]	[~]	[~]	[~]	[~]	~	~	~
	HTR-SS	HEATER START/STOP (ECH-3 ONLY) HEATER/FAN START/STOP (ALL EXCEPT ECH-3)	~	[OFF/ON]	BO	~	[~]	X	[~]	~	~	~	~	~
		UNIT PID LOOP SETTINGS	<___>	~	~	~	~	~	~	~	~	~	~	~

EQUIPMENT ROOM 013/CLOSET 010A VENTILATION

FUNCTION	NAME	DESCRIPTION	SETTING (WITH UNITS)	RANGE (WITH UNITS)	IO TYPE	HOA REQ'D	LDP VIEW REQ'D	M&C DISP REQ'D	M&C TREND REQ'D	LDP OVRD REQ'D	M&C OVRD REQ'D	ALARM CONDITION (SEE NOTES 4 & 6)	ALARM PRIORITY	M&C ROUTING
PROOFS & SAFETIES	EF2-S(EF-3S)	EXHAUST FAN EF-2/EF-3 STATUS		ON/OFF	BI	~	[X]	X	[~]	~	~	FAN PROOF FAILED	[info] [crit]	[___]
	SF1-S	SUPPLY FAN SF-1 STATUS (ROOM 013 ONLY)		ON/OFF	BI	~	[X]	X	[~]	~	~	FAN PROOF FAILED	[info] [crit]	[___]
	SF1-D-S	SUPPLY FAN SF-1 DAMPER STATUS (RM 013 ONLY)		OPEN/CLOSED	BI	~	[X]	X	[~]	~	~	DAMPER PROOF FAILED	[info] [crit]	[___]
	ALARM STATUS	REFRIGERANT DETECTOR ALARM STATUS	~	ALM/NORMAL	BI	~	[X]	X	[~]	~	~	~	[info] [crit]	[___]
START/STOP	DOAS-SS	DOAS-1 STATUS (ENABLE/DISABLE FROM DOAS-1, RM 013 ONLY)	~	ON/OFF	BV	~	[~]	X	[~]					
	EF1-SS	EXHAUST FAN EF-1 START/STOP (RM 013 ONLY)	~	ON/OFF	BO	[~]	[X]	X	[X]	[~]	X	~	~	~
	EF2/SF1-SS	EXHAUST FAN EF-2 AND SUPPLY FAN SF-1 TEST RUN	~	ON/OFF	BO	[~]	[X]	X	[X]	[~]	X	~	~	~
	EF3-SS	or EXHAUST FAN EF-3 TEST RUN (RM 010A)												
	OA-D-SS	DOAS-1/DOAS-2 OUTDOOR AIR DAMPER COMMAND	~	OPEN/CLOSED	BO	[~]	[X]	X	[X]	[~]	X	~	~	~

NOTES:

1) THE CONTRACTOR SHALL COMPLETE THE POINTS SCHEDULE AS SPECIFIED AND AS DESCRIBED IN THE SPECIFICATIONS.
2) UNIT MANUFACTURERS PROOFS AND SAFETIES: THE CONTRACTOR SHALL SHOW EACH PROOF AND SAFETY AS A SEPARATE ROW (WHERE APPLICABLE). SEE SEQUENCE OF OPERATION FOR REQUIRED MANUFACTURER'S PROOFS, SAFETIES AND ALARMS.
3) SYS-OCC: AS DESCRIBED IN THE POINTS SCHEDULE INSTRUCTIONS, OVERRIDE OF SYS-OCC IS ACCOMPLISHED THROUGH THE SYSTEM SCHEDULER. A MANUAL OCCUPANT OVERRIDE PUSH-BUTTON SHALL BE PROVIDED FOR EACH FLOOR. IF THE BUTTON IS PRESSED WHILE SYS-OCC IS IN STATE "UNOCC", THE VRF INDOOR FAN COIL UNITS AND DOAS UNIT SERVING THAT FLOOR SHALL BE PLACED INTO STATE "OCC" FOR A PERIOD OF 3 HOURS (ADJ.). UPON THE EXPIRATION OF THE OCCUPANCY OVERRIDE TIMER, THE SYSTEM SHALL REVERT TO THE STATE AS DETERMINED BY THE SYSTEM SCHEDULER.
4) ALARM CONDITIONS MARKED WITH A DOUBLE ASTERISK (**) SHALL BE ACTIVE ONLY WHEN THE SYSTEM HAS BEEN IN OCCUPIED MODE FOR 30 MINUTES.
5) SYSTEM STATUS IS EITHER MULTIPLE BINARY (DIGITAL) INPUTS, ONE PER OPERATING MODE, OR SINGLE MULTI-STATE INPUT.
6) ALL ALARM SETPOINTS SHALL BE ADJUSTABLE AT THE BMS.
7) UPON VRF ERROR STATUS, THE VRF CENTRAL CONTROLLER SHALL TRANSMIT THE FOLLOWING ADDITIONAL INFORMATION TO THE BMS UPON ERROR STATE:
   a) MULTISTATE INPUT ERROR CODE WITH CATEGORY OF ERROR
   b) ANALOG INPUT WITH ERROR CODE DETAIL.
   THE BMS SHALL DISPLAY A TEXT/WRITTEN DESCRIPTION OF THE ERROR ALONG WITH THE ERROR CODE. ERROR CODES RELATED TO A2L REFRIGERANT LEAK DETECTION (1521,1625) SHALL INITIATE REQUIRED MITIGATION ACTIONS, ALARM AND SHALL REQUIRE MANUAL RESET AT THE AFFECTED INDOOR UNITS. SEE SEQUENCE OF OPERATION. ⚠1
8) A MINIMUM DEADBAND OF 3 DEG F SHALL BE MAINTAINED BETWEEN HEATING AND COOLING SETPOINTS.
9) UNOCCUPIED MODE TEMPERATURE SETPOINT SHALL BE SET AND ADJUSTED THROUGH THE VRF CENTRALIZED CONTROLLER (AE-200) BASED ON THE EFFECTIVE OCCUPANCY STATE. THE VRF CENTRALIZED CONTROLLER SHALL ADJUST THE COOLING AND HEATING TEMPERATURE SETPOINTS TO EACH UNIT BASED ON THE OCCUPANCY STATE.
10) THE UNOCCUPIED MODE TEMPERATURE SETPOINT ADJUSTMENT RANGE SHALL BE THE SAME AS THE OCCUPIED SETPOINT ADJUSTMENT RANGE, HOWEVER, THE UNOCCUPIED MODE COOLING TEMPERATURE SETPOINT SHALL NOT BE ALLOWED TO BE LOWER THAN THE OCCUPIED COOLING TEMPERATURE SETPOINT AND THE UNOCCUPIED HEATING TEMPERATURE SETPOINT SHALL NOT BE ALLOWED TO BE HIGHER THAN THE OCCUPIED COOLING TEMPERATURE SETPOINT.
11) DOAS SUPPLY AIR DEWPOINT TEMPERATURE IS PROVIDED BY FACTORY INSTALLED POST- DX COIL TEMPERATURE SENSOR.
12) DRY MODE TEMPERATURE SETPOINT SHALL BE THE SAME AS THE COOLING MODE TEMPERATURE SETPOINT.
12) BINARY (DIGITAL) INPUT FROM FILTER DP SWITCH FOR EVAP-9,10,12,13 ONLY. VIRTUAL POINT FOR ALL OTHERS.

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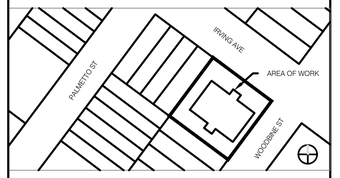
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SEQUENCES OF OPERATION:

A. HEAT-RECOVERY TYPE VARIABLE REFRIGERANT FLOW (VRF) SYSTEMS: CU-1 AND EVAP-1,2,3,4,5,6,14

1. GENERAL

THE VRF SYSTEMS CONSIST OF AIR-TO-AIR VARIABLE SPEED DX HEAT PUMPS PAIRED TO SIX INDOOR UNITS. CU-1 IS PROVIDED WITH A HEAT RECOVERY BRANCH BOX TO ALLOW INDOOR UNITS TO FUNCTION IN BOTH HEAT AND COOLING SIMULTANEOUSLY AND SERVES THE BASEMENT INDOOR UNITS EVAP-1 THRU EVAP-6 AND EVAP-14. THE INDOOR VRF UNITS SHALL SUPPLY WARM AIR FOR SPACE HEATING AND COOL AIR FOR SPACE COOLING AND DEHUMIDIFICATION VIA RECIRCULATION OF SPACE AIR.

EACH VRF INDOOR UNIT SHALL READ THE LOCAL SPACE TEMPERATURE VIA A WALL MOUNTED TEMPERATURE SENSOR/CONTROLLER AND SHALL BE LINKED TO THEIR RESPECTIVE OUTDOOR UNITS AND THE VRF CENTRAL CONTROLLER FOR OPERATION AS WELL AS THE BUILDING BMS VIA THE CENTRALIZED CONTROLLER FOR REMOTE SETPOINT ADJUSTMENT AND MONITORING. THE INDOOR UNITS SHALL BE SCHEDULED VIA THE CENTRAL CONTROLLER. DURING THE OCCUPIED PERIODS, ALL INDOOR UNITS SHALL RUN IN THE OCCUPIED MODE AND DURING UNOCCUPIED PERIODS, ALL INDOOR UNITS SHALL BE RUN IN THE UNOCCUPIED MODE. THE CENTRAL CONTROLLER SHALL PROVIDE OPTIMUM START CONTROLS TO AUTOMATICALLY ADJUST THE START TIME OF THE UNITS ACCORDING TO THE HEATING OR COOLING NEEDS OF THE SPACE. EACH INDOOR UNIT SHALL ALSO BE ABLE TO BE STARTED OR STOPPED MANUALLY FROM THE CENTRAL CONTROLLER OR BMS. THE SPACE MOUNTED SIMPLE MA CONTROLLERS SHALL HAVE ALL USER ADJUSTMENT (STATUS, MODE, SETPOINT, FAN SPEED, ETC.) LOCKED OUT VIA THE CENTRAL CONTROLLER, AND SHALL ONLY BE USED TO TRANSMIT LOCAL SPACE TEMPERATURE TO THE INDOOR UNIT AND CENTRAL CONTROLLER AND TO DISPLAY UNIT STATUS.

AUXILIARY ELECTRIC CABINET WALL HEATERS ARE PROVIDED FOR INDICATED INDOOR UNITS. AUXILIARY ELECTRIC HEATERS SHALL BE INTERLOCKED TO BE CONTROLLED VIA AUXILIARY HEAT SIGNAL FROM THE INDOOR UNIT SERVING THE SUPPLY DUCT OR THE SPACE THAT THE AUXILIARY HEATER IS LOCATED IN.

2. OCCUPIED MODE (USER ADJUSTABLE SCHEDULE, CONFIRM HOURS OF OPERATION WITH OWNER):

THE UNITS SHALL BE PLACED IN AUTOMATIC, DUAL-SETPOINT TEMPERATURE CONTROL DURING THE OCCUPIED PERIOD ACCORDING TO THE OPTIMUM START ALGORITHM. INDOOR UNITS SERVING A SINGLE SPACE SHALL HAVE THE SAME HEATING AND COOLING SETPOINTS. OCCUPIED MODE SHALL ALSO BE CAPABLE OF BEING SET VIA MANUAL OVERRIDE FROM THE CENTRAL CONTROLLER OR A WALL MOUNTED OCCUPANCY OVERRIDE PUSHBUTTON WITH A THREE HOUR (ADJ.) TIMER.

WHEN THE INDOOR SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT (60 DEG. F FOR EVAP-14 AND 72 DEG. F FOR ALL OTHER UNITS, ADJ.), THE UNIT SHALL PROVIDE SPACE HEATING. THE UNIT SHALL OPERATING IN HEATING MODE. THE INDOOR UNIT REFRIGERANT VALVE SHALL MODULATE ACCORDING TO ITS FACTORY ALGORITHM TO MAINTAIN THE SPACE HEATING TEMPERATURE SETPOINT.

IN HEATING MODE, THE INDOOR UNIT FAN SHALL BE RUN IN AUTOMATIC MODE. THE FAN SPEED SHALL BE SWITCHED BETWEEN LOW, MEDIUM AND HIGH SPEED AUTOMATICALLY BASED ON UNIT HEATING LOAD.

WHEN THE INDOOR SPACE TEMPERATURE IS MORE THAN THE COOLING SETPOINT (85 DEG. F FOR EVAP-14 AND 75 DEG. FOR ALL OTHER UNITS, ADJ.), THE UNIT SHALL PROVIDE SPACE COOLING. THE UNIT SHALL OPERATING IN COOLING MODE. THE INDOOR UNIT REFRIGERANT VALVE SHALL MODULATE ACCORDING TO ITS FACTORY ALGORITHM TO MAINTAIN THE SPACE COOLING TEMPERATURE SETPOINT.

IN COOLING MODE, THE INDOOR UNIT FAN SHALL BE RUN IN AUTOMATIC MODE. THE FAN SPEED SHALL BE SWITCHED BETWEEN LOW, MEDIUM AND HIGH SPEED AUTOMATICALLY BASED ON UNIT COOLING LOAD.

WHEN THE INDOOR SPACE TEMPERATURE IS BETWEEN THE HEATING SETPOINT AND THE COOLING SETPOINT THE INDOOR UNIT SHALL OPERATE IN FAN ONLY MODE. THE FAN SHALL BE RUN AT LOW SPEED, AND THE UNIT SHALL NOT PROVIDE HEATING OR COOLING.

THE VRF OUTDOOR UNITS SHALL MODULATE THE REFRIGERANT FLOW, COMPRESSOR SPEED AND OUTDOOR FAN SPEED ACCORDING TO MANUFACTURERS CONTROL SEQUENCE TO SUPPLY THE HEATING AND COOLING DEMAND OF THE INDOOR UNITS.

HEAT RECOVERY SYSTEM ONLY: VRF INDOOR UNITS MAY RUN IN ANY COMBINATION OF COOLING, HEATING OR FAN ONLY MODES. REFRIGERANT FLOW TO AND FROM EACH INDOOR UNIT SHALL BE MANAGED BY THE SYSTEM REFRIGERANT BRANCH DISTRIBUTION BOX BASED ON THE INDOOR UNIT MODE AND DEMAND. THE VRF OUTDOOR UNITS SHALL RUN IN EITHER HEATING OR COOLING MODE BASED ON REQUIREMENTS OF THE INDOOR UNITS AND REFRIGERANT BRANCH DISTRIBUTION BOX. IF ALL INDOOR UNITS ON A SYSTEM ARE IN FAN ONLY MODE (NO CALL FOR HEATING OR COOLING) THE OUTDOOR UNIT SHALL BE TURNED OFF.

3. UNOCCUPIED MODE (ALL HOURS OUTSIDE OF OCCUPIED MODE, USER ADJUSTABLE SCHEDULE, CONFIRM HOURS WITH OWNER):

THE UNITS SHALL BE PLACED IN SETBACK CONTROL MODE DURING THE UNOCCUPIED PERIOD.

DURING SETBACK CONTROL MODE, THE GROUPS/SYSTEMS SHALL DEFAULT TO OFF. THE INDOOR UNIT FANS, AND THE SYSTEM REFRIGERATION SYSTEM SHALL NOT RUN WHILE THE SYSTEM IS OFF.

IF ANY SPACE TEMPERATURE RISES ABOVE 85 DEG. F (ADJ.) OR FALLS BELOW 55 DEG. F (ADJ.) THE SYSTEM SERVING THAT SPACE SHALL BE TURNED ON. THE INDOOR AND OUTDOOR UNITS FOR THAT SYSTEM, INCLUDING TEMPERATURE AND FAN CONTROL, SHALL BE RUN AS IN THE OCCUPIED MODE, UNTIL THE SPACE TEMPERATURE IN ALL SPACES SERVED BY THE SYSTEM FALL BELOW 85 DEG F. (ADJ.) OR RISE ABOVE 55 DEG. F (ADJ.), AT WHICH TIME THE SYSTEM SHALL BE TURNED BACK OFF.

4. AUXILIARY ELECTRIC HEAT (ECH-3, EUH-1, EUH-2)

INDOOR UNITS WITH ASSOCIATED ELECTRIC SPACE HEAT (EVAP-1,2,14) SHALL BE PROVIDED WITH A FACTORY AUXILIARY HEAT RELAY. IF, WHILE THE INDOOR UNIT IS IN HEATING MODE OR WHILE THE SYSTEM IS IN FAULT OR DEFROST, THE SPACE TEMPERATURE FALLS MORE THAN 1.8 DEG. F(ADJ.) BELOW THE HEATING SETPOINT, THE AUXILIARY HEATING RELAY SHALL ENERGIZE AND SHALL SEND A SIGNAL TO THE BMS TO ENERGIZE THE ELECTRIC AUXILIARY SPACE HEATING ASSOCIATED WITH THE INDOOR UNIT.

5. ALARMS

ALARMS SHALL BE INDICATED AT THE CENTRAL CONTROLLER INTERFACE AND REMOTELY VIA THE BMS. THE CENTRAL CONTROLLER BACKLIGHT SHALL BE LIT WHEN ONE OR MORE UNITS IS IN ERROR. A MANUFACTURER'S ERROR CODE, WITH CORRESPONDING WRITTEN/ TEXTUAL DESCRIPTION OF ERROR, SHALL BE PRODUCED AT THE CENTRAL CONTROLLER AND AT THE BMS FOR UNITS IN ERROR. UNIT OR SYSTEM ERRORS SHALL BE RESET MANUALLY FROM THE CONTROL PANEL OR THE BMS. THE CENTRAL CONTROLLER SHALL LOG THE LAST 50 ERRORS.

EVAP-1 ONLY: A DIFFERENTIAL PRESSURE SWITCH SHALL BE PROVIDED ACROSS THE FILTER BOX TO INDICATE A CHANGE FILTER ALERT AT THE BMS WHEN THE FILTER PRESSURE DROP EXCEEDS 0.25" W.C. (ADJ. AT SENSOR).

EVAP-2,3,4,5,6 ONLY: THE CENTRAL CONTROLLER SHALL INDICATE REQUIRE UNIT MAINTENANCE (FILTER CHANGES) PER MANUFACTURERS SCHEDULE VIA THE BMS. THE MAINTENANCE INDICATOR SHALL BE RESET MANUALLY AT THE CENTRAL CONTROLLER OR THE BMS.

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A2L REFRIGERANT LEAK DETECTION ALARM AND MITIGATION SEQUENCE: EACH INDOOR UNIT SHALL BE PROVIDED WITH AN INTEGRAL A2L REFRIGERANT LEAK DETECTION SENSOR. A REFRIGERANT LEAK SHUT-OFF VALVE SHALL BE PROVIDED FOR EACH BRANCH CIRCUIT WITHIN THE REFRIGERANT BRANCH DISTRIBUTION BOX CONTROLLER. IF A REFRIGERANT LEAK IS INDICATED AT A LEAK DETECTION SENSOR OF AN INDOOR UNIT, THE SOLENOID VALVE SERVING THE BRANCH OF THAT INDOOR UNIT AT THE BRANCH DISTRIBUTION BOX SHALL BE IMMEDIATELY CLOSED. IF THE AFFECTED UNIT IS A DUCTED-TYPE UNIT (EVAP-1,3) THE INDOOR UNIT FAN SHALL BE IMMEDIATELY STARTED OR CONTINUE TO RUN AT HIGH SPEED UNTIL A MANUAL RESET OF THE UNIT IS PERFORMED. A REFRIGERANT LEAK ERROR CODE (CODE 1521) FOR THE AFFECT INDOOR UNIT SHALL BE TRANSMITTED FROM THE VRF SYSTEM TO THE BMS. THE BMS SHALL MONITOR THE STATUS OF THE REFRIGERANT SENSOR AND SHALL INDICATE REFRIGERANT LEAK OR REFRIGERANT DETECTOR FAULT (CODE 1625) ERROR CODES WITH AN ALARM AT THE BMS. THESE ALARMS SHALL REQUIRE MANUAL RESET AT THE INDOOR UNIT.

B. HEAT PUMP TYPE VARIABLE REFRIGERANT FLOW (VRF) SYSTEMS: CU-3,4 AND EVAP-8,9,10,11,12,13

1. GENERAL

THE VRF SYSTEMS CONSIST OF AIR-TO-AIR VARIABLE SPEED DX HEAT PUMPS PAIRED TO THREE INDOOR UNITS. CU-3 AND CU-4 EACH SERVE HALF OF THE FIRST FLOOR MAIN READING ROOM AS HEAT PUMP SYSTEMS WITHOUT HEAT RECOVERY BRANCH BOXES (ALL INDOOR UNITS ON SYSTEM IN EITHER HEATING OR COOLING). CU-3 SERVES EVAP-8,9,10 AND CU-4 SERVES EVAP-11,12,13. THE INDOOR VRF UNITS SHALL SUPPLY WARM AIR FOR SPACE HEATING AND COOL AIR FOR SPACE COOLING AND DEHUMIDIFICATION VIA RECIRCULATION OF SPACE AIR.

EACH VRF INDOOR UNIT SHALL READ THE LOCAL SPACE TEMPERATURE VIA A WALL MOUNTED TEMPERATURE SENSOR/CONTROLLER AND SHALL BE LINKED TO THEIR RESPECTIVE OUTDOOR UNITS AND THE VRF CENTRAL CONTROLLER FOR OPERATION AS WELL AS THE BUILDING BMS VIA THE CENTRALIZED CONTROLLER FOR REMOTE SETPOINT ADJUSTMENT AND MONITORING. THE INDOOR UNITS SHALL BE SCHEDULED VIA THE CENTRAL CONTROLLER. DURING THE OCCUPIED PERIODS, ALL INDOOR UNITS SHALL RUN IN THE OCCUPIED MODE AND DURING UNOCCUPIED PERIODS, ALL INDOOR UNITS SHALL BE RUN IN THE UNOCCUPIED MODE. THE CENTRAL CONTROLLER SHALL PROVIDE OPTIMUM START CONTROLS TO AUTOMATICALLY ADJUST THE START TIME OF THE UNITS ACCORDING TO THE HEATING OR COOLING NEEDS OF THE SPACE. EACH INDOOR UNIT SHALL ALSO BE ABLE TO BE STARTED OR STOPPED MANUALLY FROM THE CENTRAL CONTROLLER OR BMS. THE SPACE MOUNTED SIMPLE MA CONTROLLERS SHALL HAVE ALL USER ADJUSTMENT (STATUS, MODE, SETPOINT, FAN SPEED, ETC.) LOCKED OUT VIA THE CENTRAL CONTROLLER, AND SHALL ONLY BE USED TO TRANSMIT LOCAL SPACE TEMPERATURE TO THE INDOOR UNIT AND CENTRAL CONTROLLER AND TO DISPLAY UNIT STATUS.

AUXILIARY ELECTRIC DUCT HEATERS ARE PROVIDED FOR INDICATED INDOOR UNITS. AUXILIARY ELECTRIC HEATERS SHALL BE INTERLOCKED TO BE CONTROLLED VIA AUXILIARY HEAT SIGNAL FROM THE INDOOR UNIT SERVING THE SUPPLY DUCT THAT THE AUXILIARY HEATER IS LOCATED IN.

2. OCCUPIED MODE (USER ADJUSTABLE SCHEDULE, CONFIRM HOURS OF OPERATION WITH OWNER):

THE UNITS SHALL BE PLACED IN AUTOMATIC, DUAL-SETPOINT TEMPERATURE CONTROL DURING THE OCCUPIED PERIOD ACCORDING TO THE OPTIMUM START ALGORITHM. INDOOR UNITS SERVING A SINGLE SPACE SHALL HAVE THE SAME HEATING AND COOLING SETPOINTS. OCCUPIED MODE SHALL ALSO BE CAPABLE OF BEING SET VIA MANUAL OVERRIDE FROM THE CENTRAL CONTROLLER OR A WALL MOUNTED OCCUPANCY OVERRIDE PUSHBUTTON WITH A THREE HOUR (ADJ.) TIMER.

WHEN THE INDOOR SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT (72 DEG. F, ADJ.), THE UNIT SHALL PROVIDE SPACE HEATING. THE UNIT SHALL OPERATING IN HEATING MODE. THE INDOOR UNIT REFRIGERANT VALVE SHALL MODULATE ACCORDING TO ITS FACTORY ALGORITHM TO MAINTAIN THE SPACE HEATING TEMPERATURE SETPOINT.

IN HEATING MODE, THE INDOOR UNIT FAN SHALL BE RUN IN AUTOMATIC MODE. THE FAN SPEED SHALL BE SWITCHED BETWEEN LOW, MEDIUM AND HIGH SPEED AUTOMATICALLY BASED ON UNIT HEATING LOAD.

WHEN THE INDOOR SPACE TEMPERATURE IS MORE THAN THE COOLING SETPOINT (75 DEG. F, ADJ.), THE UNIT SHALL PROVIDE SPACE COOLING. THE UNIT SHALL OPERATING IN COOLING MODE. THE INDOOR UNIT REFRIGERANT VALVE SHALL MODULATE ACCORDING TO ITS FACTORY ALGORITHM TO MAINTAIN THE SPACE COOLING TEMPERATURE SETPOINT.

IN COOLING MODE, THE INDOOR UNIT FAN SHALL BE RUN IN AUTOMATIC MODE. THE FAN SPEED SHALL BE SWITCHED BETWEEN LOW, MEDIUM AND HIGH SPEED AUTOMATICALLY BASED ON UNIT COOLING LOAD.

WHEN THE INDOOR SPACE TEMPERATURE IS BETWEEN THE HEATING SETPOINT AND THE COOLING SETPOINT THE INDOOR UNIT SHALL OPERATE IN FAN ONLY MODE. THE FAN SHALL BE RUN AT LOW SPEED, AND THE UNIT SHALL NOT PROVIDE HEATING OR COOLING.

THE VRF OUTDOOR UNITS SHALL MODULATE THE REFRIGERANT FLOW, COMPRESSOR SPEED AND OUTDOOR FAN SPEED ACCORDING TO MANUFACTURERS CONTROL SEQUENCE TO SUPPLY THE HEATING AND COOLING DEMAND OF THE INDOOR UNITS.

HEAT PUMP SYSTEMS ONLY (CU-3,4): VRF INDOOR UNITS WHICH ARE PART OF THE SAME VRF SYSTEM (CONNECTED TO THE SAME OUTDOOR UNIT) SHALL ALL RUN IN EITHER COOLING AND FAN ONLY MODES, OR HEATING AND FAN ONLY MODES. SIMULTANEOUS HEATING AND COOLING MODES SHALL NOT BE PERMITTED FOR INDOOR UNITS ON THE SAME VRF SYSTEM. THE VRF OUTDOOR UNITS SHALL RUN IN EITHER HEATING OR COOLING MODE BASED ON REQUIREMENTS OF THE INDOOR UNITS. IF ALL INDOOR UNITS ON A SYSTEM ARE IN FAN ONLY MODE (NO CALL FOR HEATING OR COOLING) THE OUTDOOR UNIT SERVING THE SYSTEM SHALL BE TURNED OFF.

3. UNOCCUPIED MODE (ALL HOURS OUTSIDE OF OCCUPIED MODE, USER ADJUSTABLE SCHEDULE, CONFIRM HOURS WITH OWNER):

THE UNITS SHALL BE PLACED IN SETBACK CONTROL MODE DURING THE UNOCCUPIED PERIOD.

DURING SETBACK CONTROL MODE, THE GROUPS/SYSTEMS SHALL DEFAULT TO OFF. THE INDOOR UNIT FANS, AND THE SYSTEM REFRIGERATION SYSTEM SHALL NOT RUN WHILE THE SYSTEM IS OFF.

IF ANY SPACE TEMPERATURE RISES ABOVE 85 DEG. F (ADJ.) OR FALLS BELOW 55 DEG. F (ADJ.) THE SYSTEM SERVING THAT SPACE SHALL BE TURNED ON. THE INDOOR AND OUTDOOR UNITS FOR THAT SYSTEM, INCLUDING TEMPERATURE AND FAN CONTROL, SHALL BE RUN AS IN THE OCCUPIED MODE, UNTIL THE SPACE TEMPERATURE IN ALL SPACES SERVED BY THE SYSTEM FALL BELOW 85 DEG F. (ADJ.) OR RISE ABOVE 55 DEG. F (ADJ.), AT WHICH TIME THE SYSTEM SHALL BE TURNED BACK OFF.

4. AUXILIARY ELECTRIC HEAT (EDH-1,2,3,4)

INDOOR UNITS WITH ASSOCIATED DUCT HEATERS (EVAP-9,10,12,13) SHALL BE PROVIDED WITH A FACTORY AUXILIARY HEAT SIGNAL TRANSMITTED THROUGH THE BMS. IF, WHILE THE INDOOR UNIT IS IN HEATING MODE OR WHILE THE SYSTEM IS IN FAULT OR DEFROST, THE SPACE TEMPERATURE FALLS MORE THAN 1.8 DEG. F(ADJ.) BELOW THE HEATING SETPOINT, THE AUXILIARY HEATING SIGNAL SHALL BE SENT TO THE BMS TO ENERGIZE THE ELECTRIC AUXILIARY HEATING ASSOCIATED WITH THE INDOOR UNIT.

A DUCT TEMPERATURE SENSOR, MOUNTED DOWNSTREAM OF EACH ELECTRIC DUCT HEATER, SHALL LIMIT THE MAXIMUM SUPPLY AIR TEMPERATURE TO 105 DEG. F (ADJ.) WHILE THE HEATER IS ENERGIZED BY MODULATING THE HEATER OUTPUT.

5. SMOKE DETECTION SHUTDOWN (EVAP-8,9,10,11,12,13 ONLY)

DUCT SMOKE DETECTORS SHALL BE PROVIDED IN DUCTWORK DOWNSTREAM OF DUCT HEATERS EDH-1,2,3,4 SERVING THE MAIN READING ROOM AND AREA SMOKE DETECTORS SHALL BE PROVIDED IN THE MAIN READING ROOM SERVED BY EVAP-8,9,10,11,12,13. IF ANY DUCT OR AREA SMOKE DETECTOR ASSOCIATED WITH THE MAIN READING ROOM SENDS AN ALARM TO THE FACP, ALL INDOOR UNITS SERVING THE MAIN READING ROOM SHALL SHUTDOWN VIA RELAY SIGNAL FROM THE FACP. THIS SHALL BE ACCOMPLISHED BY CUTTING LINE VOLTAGE POWER TO ALL INDOOR UNITS. A SIGNAL SHALL BE SENT TO THE BMS INDICATING THAT THE UNITS ARE IN FIRE ALARM SHUTDOWN.

6. ALARMS

ALARMS SHALL BE INDICATED AT THE CENTRAL CONTROLLER INTERFACE AND REMOTELY VIA THE BMS. THE CENTRAL CONTROLLER BACKLIGHT SHALL BE LIT WHEN ONE OR MORE UNITS IS IN ERROR. A MANUFACTURER'S ERROR CODE, WITH CORRESPONDING WRITTEN/ TEXTUAL DESCRIPTION OF ERROR, SHALL BE PRODUCED AT THE CENTRAL CONTROLLER AND AT THE BMS FOR UNITS IN ERROR. UNIT OR SYSTEM ERRORS SHALL BE RESET MANUALLY FROM THE CONTROL PANEL OR THE BMS. THE CENTRAL CONTROLLER SHALL LOG THE LAST 50 ERRORS.

EVAP-1,9,10,12,13 ONLY: A DIFFERENTIAL PRESSURE SWITCH SHALL BE PROVIDED ACROSS THE FILTER BOX TO INDICATE A CHANGE FILTER ALERT AT THE BMS WHEN THE FILTER PRESSURE DROP EXCEEDS 0.25" W.C. (ADJ. AT SENSOR).

EVAP-8,11 ONLY: THE CENTRAL CONTROLLER SHALL INDICATE REQUIRE UNIT MAINTENANCE (FILTER CHANGES) PER MANUFACTURERS SCHEDULE VIA THE BMS. THE MAINTENANCE INDICATOR SHALL BE RESET MANUALLY AT THE CENTRAL CONTROLLER OR THE BMS.

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A2L REFRIGERANT LEAK DETECTION ALARM AND MITIGATION SEQUENCE: EACH INDOOR UNIT SHALL BE PROVIDED WITH AN INTEGRAL A2L REFRIGERANT LEAK DETECTION SENSOR. IF A REFRIGERANT LEAK IS INDICATED AT A LEAK DETECTION SENSOR AND THE AFFECTED UNIT IS A DUCTED-TYPE UNIT (EVAP-9,10,12,13) THE INDOOR UNIT FAN SHALL BE IMMEDIATELY STARTED OR CONTINUE TO RUN AT HIGH SPEED UNTIL A MANUAL RESET OF THE UNIT IS PERFORMED. A REFRIGERANT LEAK ERROR CODE (CODE 1521) FOR THE AFFECT INDOOR UNIT SHALL BE TRANSMITTED FROM THE VRF SYSTEM TO THE BMS. THE BMS SHALL IMMEDIATELY DISABLE THE ASSOCIATED ELECTRIC DUCT HEATER (EDH-1,2,3 OR 4) OF THE AFFECTED UNIT IF PRESENT (COMMAND SIGNAL DISABLED AND SET TO 0%). THE BMS SHALL MONITOR THE STATUS OF THE REFRIGERANT SENSOR AND SHALL INDICATE REFRIGERANT LEAK OR REFRIGERANT DETECTOR FAULT (CODE 1625) ERROR CODES WITH AN ALARM AT THE BMS. THESE ALARMS SHALL REQUIRE MANUAL RESET AT THE INDOOR UNIT.

C. IT ROOM AIR-CONDITIONING SYSTEMS: CU-2 AND EVAP-7

1. GENERAL

THE IT ROOM AIR-CONDITIONING SYSTEM CONSISTS OF AN AIR-TO-AIR VARIABLE SPEED SPLIT SYSTEM DX AIR-CONDITIONER (COOLING ONLY) WITH LOW AMBIENT PERFORMANCE KIT CONSISTING OF AN INDOOR UNIT AND AN OUTDOOR CONDENSING UNIT. THE INDOOR UNIT SHALL SUPPLY COOL AIR FOR SPACE COOLING AND DEHUMIDIFICATION VIA RECIRCULATION OF SPACE AIR.

THE INDOOR UNIT SHALL READ THE LOCAL SPACE TEMPERATURE VIA A WALL MOUNTED TEMPERATURE SENSOR/CONTROLLER AND SHALL BE LINKED TO THE OUTDOOR UNIT AND THE BUILDING BMS VIA THE BACNET INTERFACE FOR REMOTE SETPOINT ADJUSTMENT AND MONITORING. THE SYSTEM SHALL BE SCHEDULED VIA THE CENTRAL CONTROLLER AND SET FOR CONTINUOUS (24/7) COOLING OPERATION. THE SYSTEM SHALL BE ABLE TO BE STARTED OR STOPPED MANUALLY FROM THE CENTRAL CONTROLLER OR BMS. THE SPACE MOUNTED DELUXE MA CONTROLLER SHALL ALLOW USER ADJUSTMENT (STATUS, MODE, SETPOINT, FAN SPEED, ETC.) AND SHALL DISPLAY UNIT STATUS.

2. OCCUPIED MODE (USER ADJUSTABLE SCHEDULE, SET INITIALLY TO CONTINUOUS (24/7) OPERATION, CONFIRM HOURS OF OPERATION WITH OWNER):

THE UNITS SHALL BE PLACED IN COOLING MODE DURING THE OCCUPIED PERIOD. UNIT MODE SHALL ALSO BE CAPABLE OF BEING SET VIA MANUAL OVERRIDE FROM THE CENTRAL CONTROLLER.

WHEN THE INDOOR SPACE TEMPERATURE IS MORE THAN THE COOLING SETPOINT (75 DEG. F, ADJ.), THE UNIT SHALL PROVIDE SPACE COOLING. THE INDOOR UNIT REFRIGERANT VALVE SHALL MODULATE ACCORDING TO ITS FACTORY ALGORITHM TO MAINTAIN THE SPACE COOLING TEMPERATURE SETPOINT.

IN COOLING MODE, THE INDOOR UNIT FAN SHALL BE RUN IN AUTOMATIC MODE. THE FAN SPEED SHALL BE SWITCHED BETWEEN LOW, MEDIUM AND HIGH SPEED AUTOMATICALLY BASED ON UNIT COOLING LOAD.

WHEN THE INDOOR SPACE TEMPERATURE IS LESS THAN THE COOLING SETPOINT, THE INDOOR UNIT SHALL OPERATE IN FAN ONLY MODE. THE FAN SHALL BE RUN AT LOW SPEED, AND THE UNIT SHALL NOT PROVIDE COOLING.

THE OUTDOOR CONDENSING UNIT SHALL MODULATE THE REFRIGERANT FLOW, COMPRESSOR SPEED AND OUTDOOR FAN SPEED ACCORDING TO MANUFACTURERS CONTROL SEQUENCE TO SUPPLY THE COOLING DEMAND OF THE INDOOR UNIT. IF THE INDOOR UNIT IS IN FAN ONLY MODE (NO CALL FOR COOLING) THE OUTDOOR UNIT SHALL BE TURNED OFF.

3. ALARMS

ALARMS SHALL BE INDICATED AT THE UNIT CONTROLLER INTERFACE AND REMOTELY VIA THE BMS. THE UNIT CONTROLLER DISPLAY BACKLIGHT SHALL BE LIT WHEN THE SYSTEM IS IN ERROR. A MANUFACTURER'S ERROR CODE, WITH CORRESPONDING WRITTEN/ TEXTUAL DESCRIPTION OF ERROR, SHALL BE PRODUCED AT THE UNIT CONTROLLER DISPLAY AND AT THE BMS. ERRORS SHALL BE RESET MANUALLY FROM THE CONTROL PANEL OR THE BMS. THE BMS SHALL LOG THE LAST 50 ERRORS.

THE BMS SHALL INDICATE REQUIRE UNIT MAINTENANCE (FILTER CHANGES) PER MANUFACTURERS SCHEDULE VIA THE BMS. THE MAINTENANCE INDICATOR SHALL BE RESET MANUALLY AT THE BMS.

D. DEDICATED OUTSIDE AIR SYSTEMS: DOAS-1,2

1. GENERAL

THE DOAS UNIT CONSISTS OF A VARIABLE SPEED SUPPLY FAN, A VARIABLE SPEED EXHAUST FAN, A ROTARY ENERGY RECOVERY WHEEL WITH SPEED CONTROL, A HEAT-PUMP REFRIGERATION SYSTEM INCLUDING MAIN AND AUXILIARY (REHEAT) COILS AND A SECONDARY FLAT PLATE POST COIL SENSIBLE HEAT EXCHANGER (DOAS-1 ONLY). THE DOAS SHALL SUPPLY SPACE NEUTRAL, DEHUMIDIFIED OUTDOOR AIR DIRECTLY TO EACH CONDITIONED SPACE, WITH FREE COOLING CONTROL VIA CONTROL OF THE ENERGY WHEEL SPEED AND REFRIGERATION SYSTEM TO PROVIDE OUTDOOR AIR DIRECTLY TO THE SPACE WHEN CONDITIONS WARRANT. THE UNITS SHALL WORK TO MAINTAIN A NEUTRAL AIR SETPOINT (70 DEG. F WITH A 52 DEG. F DEWPOINT IN COOLING/DEHUMIDIFICATION AND 68 DEG. F IN HEATING, ADJ.) AND BE PROVIDED WITH NIGHT SETBACK CONTROLS. THE NEUTRAL AIR SETPOINT SHALL BE ADJUSTED TO ACCORDING TO THE VRF HEAT PUMP COOLING AND HEATING SETPOINTS SUCH THAT THE COOLING AND HEATING SETPOINTS CAN TRACK ONE ANOTHER. THE SUPPLY AND EXHAUST FANS SHALL BE SET FOR CONSTANT SPEED OPERATION DURING OCCUPIED HOURS AND INTERMITTENT OPERATION DURING UNOCCUPIED HOURS.

2. OCCUPIED MODE (USER ADJUSTABLE SCHEDULE, CONFIRM HOURS OF OPERATION WITH OWNER)

DOAS OFF

THE SUPPLY FAN AND EXHAUST (RETURN AIR) FANS SHALL BE OFF. THE REFRIGERATION SYSTEM SHALL BE OFF. THE OUTSIDE AIR AND EXHAUST AIR SHUTOFF DAMPER SHALL BE CLOSED.

DOAS START

THE WHEN IN THE OCCUPIED MODE, THE DOAS SHALL BE STARTED AS FOLLOWS:

a. AT THE START OF THE OCCUPIED PERIOD. THE DOAS SHALL RUN CONTINUOUSLY DURING THE OCCUPIED PERIOD.
b. MANUALLY AT THE DOAS UNIT CONTROL PANEL, VIA THE BMS OR FROM THE OCCUPANCY OVERRIDE PUSHBUTTON (THREE HOUR TIMER, ADJ).

WHEN COMMANDED TO START, IF THE OUTSIDE AIR INTAKE FIRE-SMOKE DAMPER STATUS IS OPEN, AND THE UNIT IS NOT RECEIVING A SMOKE DETECTION SHUTDOWN COMMAND, THE DOAS SHUTOFF DAMPERS SHALL BE OPENED. ONCE THE DAMPERS PROVE OPEN, THE SUPPLY FAN AND EXHAUST FAN SHALL START AND SHALL COME UNDER CONTROL. THE DOAS UNIT SHALL THEN ENTER RUN MODE.

DOAS RUN

FAN CONTROL:

THE SUPPLY FAN SPEED SHALL RUN AT CONSTANT SPEED DURING OCCUPIED MODE. THE EXHAUST FAN SPEED SHALL TRACK THE SUPPLY FAN SPEED AT ALL TIMES SUCH THAT THE UNIT EXHAUST AIRFLOW IS EQUAL TO THE UNIT SUPPLY AIRFLOW LESS A PRESSURIZATION OFFSET (SEE SCHEDULE).

ENERGY WHEEL CONTROL:

THE ENERGY RECOVERY WHEEL SHALL BE ENABLED/DISABLED ACCORDING TO THE UNIT'S INTERNAL ALGORITHM TO MAINTAIN THE DISCHARGE AIR HEATING OR COOLING SETPOINT TEMPERATURE.

REFRIGERATION SYSTEM CONTROL:

COOLING/DEHUMIDIFICATION MODE (DOAS-1 ONLY): WHEN THE DRY BULB TEMPERATURE AT THE UNIT'S CONTROL TEMPERATURE SENSOR (LOCATED AFTER THE WHEEL), EXCEEDS THE COOLING/DEHUMIDIFICATION SET POINT, THE COMPRESSOR WILL BE TURNED ON WITH THE REVERSING VALVE SET IN THE DEHUMIDIFICATION POSITION. THE SUPPLY AIR WILL BE CONDITIONED BY THE ENTHALPY WHEEL AND THE REFRIGERATION SYSTEM.

DEHUMIDIFICATION MODE (DOAS-2 ONLY): WHEN THE DEWPOINT TEMPERATURE AT THE UNIT'S CONTROL SENSOR (LOCATED AFTER THE WHEEL), EXCEEDS THE DEHUMIDIFICATION SET POINT, THE COMPRESSOR WILL BE TURNED ON WITH THE REVERSING VALVE SET IN THE DEHUMIDIFICATION POSITION THE SUPPLY AIR WILL BE CONDITIONED BY THE ENTHALPY WHEEL AND THE REFRIGERATION SYSTEM. THE COMPRESSOR SHALL MODULATE TO MAINTAIN THE POST-COOLING COIL DEWPOINT TEMPERATURE. IF THE SUPPLY AIR TEMPERATURE FALLS BELOW THE REHEAT SETPOINT, THE HOT-GAS REHEAT VALVE SHALL MODULATE TO MAINTAIN THE SUPPLY AIR TEMPERATURE.

COOLING MODE (DOAS-2 ONLY): WHEN THE DRY BULB TEMPERATURE AT THE UNIT'S CONTROL TEMPERATURE SENSOR (LOCATED AFTER THE WHEEL), EXCEEDS THE COOLING SET POINT AND THE DEWPOINT IS LESS THAN THE DEHUMIDIFICATION SETPOINT, THE COMPRESSOR WILL BE TURNED ON WITH THE REVERSING VALVE SET IN THE COOLING POSITION. THE SUPPLY AIR WILL BE CONDITIONED BY THE ENTHALPY WHEEL AND THE REFRIGERATION SYSTEM. THE COMPRESSOR WILL MODULATE TO MAINTAIN THE SUPPLY AIR COOING SETPOINT.

HEATING MODE: WHEN THE DRY BULB AT THE UNIT'S CONTROL TEMPERATURE SENSOR, FALLS BELOW THE HEATING SET POINT, THE COMPRESSOR WILL BE TURNED ON WITH THE REVERSING VALVE IN THE HEATING POSITION THE SUPPLY AIR WILL BE CONDITIONED BY THE ENTHALPY WHEEL AND THE REFRIGERATION SYSTEM TO MAINTAIN SUPPLY AIR HEATING SETPOINT.

ECONOMIZER MODE: WHEN THE DRY BULB AT THE UNIT'S CONTROL TEMPERATURE SENSOR, C-TS, IS BETWEEN THE DEHUMIDIFICATION AND HEATING SET POINTS, THE COMPRESSOR WILL BE TURNED OFF THE SUPPLY AIR WILL BE CONDITIONED ONLY BY THE ENTHALPY WHEEL.

DEFROST MODE: WHEN THE LOW SUCTION PRESSURE SWITCH REMAINS OPEN FOR 20 MIN (ADJUSTABLE) AND THE COMPRESSOR IS OPERATING IN HEAT PUMP MODE, THE UNIT WILL ENTER THE DEFROST MODE THE SUPPLY BLOWER AND COMPRESSOR WILL DE-ENERGIZE FOR 10 MIN THE ENTHALPY WHEEL AND EXHAUST BLOWER WILL CONTINUE TO RUN THE DEFROST TIMERS CAN BE ADJUSTED IN THE SYSTEM SETTINGS MENU WHEN DEFROST CYCLE IS COMPLETE, THE UNIT RESUMES NORMAL OPERATION.

OUTSIDE AIR PRE-HEAT OPERATION (EDH-5,6): WHEN THE OUTSIDE AIR TEMPERATURE ENTERING THE DOAS FALLS BELOW 15 DEG. F (ADJ.) THE OUTSIDE AIR PRE-HEATER SHALL BE ENERGIZED AND MODULATED TO MAINTAIN A MINIMUM ENTERING OUTSIDE AIR TEMPERATURE OF 15 DEG F (ADJ.).

AUXILIARY POST-HEAT OPERATION (EDH-7,8): IF, WHILE IN HEATING MODE, THE DOAS SUPPLY AIR TEMPERATURE FALLS MORE THAN 4 DEG. F (ADJ. OFFSET) BELOW THE HEATING SETPOINT TEMPERATURE, THE AUXILIARY POST-HEATER SHALL BE ENERGIZED AND MODULATED TO MAINTAIN A MINIMUM SUPPLY AIR TEMPERATURE EQUAL TO THE HEATING SETPOINT LESS THE OFFSET.

DOAS STOP

WHEN IN THE OCCUPIED MODE, THE DOAS SHALL BE STOPPED AS FOLLOWS:

a. AT THE END OF THE OCCUPIED PERIOD.
b. MANUALLY FROM THE DOAS CONTROL PANEL OR VIA THE BMS.

THE DOAS UNIT SHALL REVERT TO THE “OFF” STATE WHEN STOPPED. THE SUPPLY AND EXHAUST FANS SHALL BE STOPPED. AFTER A TIME DELAY, THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL CLOSE.

3. UNOCCUPIED MODE (USER ADJUSTABLE SCHEDULE, CONFIRM HOURS OF OPERATION WITH OWNER)

THE DOAS UNIT SHALL BE NORMALLY OFF DURING UNOCCUPIED HOURS. THE UNIT MAY BE STARTED MANUALLY FROM THE BMS OR VIA A WALL-MOUNTED OCCUPANCY OVERRIDE BUTTON WITH A TWO HOUR TIMER. UPON EXPIRATION OF THE TIMER. THE UNIT SHALL REVERT TO THE "OFF" STATE. IF THE SPACE DEWPOINT IN ANY SPACE EXCEEDS 60 DEG. F (ADJ.) THE DOAS SHALL BE STARTED AND SHALL DELIVER DEHUMIDIFIED AIR TO THE SPACE UNTIL THE SPACE DEWPOINT IS SATISFIED, AT WHICH TIME THE UNIT SHALL REVERT TO THE "OFF" STATE.

4. SMOKE DETECTION SHUTDOWN

SMOKE DETECTORS SHALL BE PROVIDED IN DUCTWORK DOWNSTREAM OF ALL DUCT HEATERS. IF ANY DUCT SMOKE DETECTOR ASSOCIATED WITH THE DOAS UNIT SENDS AN ALARM TO THE FACP, THE DOAS UNIT SHALL SHUTDOWN (REVERT TO "OFF" STATE) AND THE ASSOCIATED DUCT HEATERS SHALL DE-ENERGIZE VIA RELAY SIGNAL FROM THE FACP.

5. FIRE-SMOKE DAMPER CLOSURE SHUTDOWN

IF THE FIRE SMOKE DAMPER STATUS IS CLOSED, AS INDICATED BY ITS ACTUATOR END SWITCH, THE DOAS UNIT SHALL SHUTDOWN (REVERT TO "OFF" STATE).

6. REFRIGERANT LEAK DETECTION

IF A REFRIGERANT LEAK IS DETECTED BY THE UNIT FACTORY INTERNAL LEAK DETECTION SYSTEM, THE DAMPERS SHALL BE OPENED IMMEDIATELY (SPRING RETURN/FAIL POSITION) AND THE SUPPLY AND EXHAUST FANS SHALL BE STARTED WITHIN 15 SECONDS OF ALARM AND SHALL BE RUN CONTINUOUSLY (DAMPER PROOF NOT REQUIRED). THE ASSOCIATED ELECTRIC DUCT HEATERS SHALL BE DE-ENERGIZED AND LOCKED-OUT WITHIN 15 SECONDS OF ALARM. THE FANS SHALL CONTINUE TO RUN AND THE DUCT HEATERS SHALL REMAIN DE-ENERGIZED FOR 5 MINUTES AFTER THE REFRIGERANT LEAK DETECTION SYSTEM IS NO LONGER IN ALARM.

7. ALARMS

AS A MINIMUM, THE FOLLOWING ALARMS SHALL BE INDICATED AT THE DOAS UNIT OPERATOR INTERFACE AND THE BMS:

a. GLOBAL ALARM
b. DIRTY AIR FILTERS (PRESSURE DROP)
c. COMPRESSOR HIGH PRESSURE
d. COMPRESSOR LOW PRESSURE
e. DRAIN PAN OVERFLOW
f. LOSS OF AIRFLOW
g. SHUTOFF DAMPER FAILS TO PROVE
h. FIRE-SMOKE DAMPER CLOSED.
i. CONTROL TEMPERATURE SENSOR FAILURE
j. SUPPLY AIR TEMPERATURE MORE THAN 5 DEG. F BELOW OR 5 DEG. F ABOVE SETPOINT.
k. REFRIGERANT LEAK (UNIT INTERNAL SENSOR)
l. SMOKE DETECTION SHUTDOWN
m. HIGH SPACE CO2 CONCENTRATION (SEE "CO2 SPACE MONITORING" BELOW)

8. SPACE CO2 MONITORING

THE SPACE CO2 LEVEL SHALL BE MONITORED FOR THE SPACES INDICATED ON THE DRAWINGS AND DISPLAYED AT THE BMS. IF THE CO2 CONCENTRATION IN ANY SPACE SERVED BY THE DOAS UNIT EXCEEDS 1000 PPM CO2 (ADJ.) BY 10% OR MORE AN ALARM SHALL BE INDICATED AT THE BMS.

E. STAND-ALONE VESTIBULE CABINET HEATERS: ECH-1, 2, 3

THE STANDALONE CABINET HEATERS LOCATED IN THE VESTIBULES SHALL EACH BE PROVIDED WITH A LOW VOLTAGE CONTROL RELAY TO ENABLE AND DISABLE THEM VIA THE BMS. THE CABINET HEATERS SHALL BE CYCLED TO MAINTAIN A HEATING SETPOINT OF 60 DEG. F (ADJ.) DURING THE OCCUPIED PERIOD AND 55 DEG. F (ADJ.) DURING THE UNOCCUPIED PERIOD. HEATING SETPOINTS SHALL BE ADJUSTABLE AT THE BMS ONLY. WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE BMS SHALL ENERGIZE THE HEATING ELEMENT AND FAN (ECH-1,2 ONLY) OR THE HEATING ELEMENT (ECH-3 ONLY) TO MAINTAIN THE SPACE TEMPERATURE.

WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 40 DEG. F (ADJ.) AS READ ON THE GLOBAL BMS OUTSIDE AIR TEMPERATURE SENSOR, THE BMS SHALL LOCK-OUT THE CONTROL SIGNAL TO PREVENT THE VESTIBULE CABINET UNIT HEATER FROM OPERATING.

ALARMS: IF THE SPACE TEMPERATURE FALLS MORE THAN 5 DEG. F BELOW THE HEATING SETPOINT, AN ALARM SHALL BE INDICATED AT THE BMS.

F. STAND-ALONE EQUIPMENT/ELECTRIC ROOM UNIT HEATERS (EUH-1,2,3)

THE UNIT HEATERS LOCATED IN THE EQUIPMENT ROOMS SHALL EACH BE PROVIDED WITH A LOW VOLTAGE CONTROL RELAY TO ENABLE AND DISABLE THEM VIA THE BMS. THE UNIT HEATERS SHALL BE LOCKED-OUT UNLESS THE AUXILIARY HEAT RELAY OF THE VRF INDOOR UNIT SERVING THE SPACE (EVAP-14) IS ENERGIZED AND CALLING FOR AUXILIARY HEAT. WHEN ENABLED, THE UNIT HEATERS SHALL BE CYCLED TO MAINTAIN A HEATING SETPOINT OF 60 DEG. F (ADJ.) DURING THE OCCUPIED PERIOD AND 55 DEG. F (ADJ.) DURING THE UNOCCUPIED PERIOD. HEATING SETPOINTS SHALL BE ADJUSTABLE AT THE BMS ONLY. WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE BMS SHALL ENERGIZE THE HEATING ELEMENT AND FAN TO MAINTAIN THE SPACE TEMPERATURE.

ALARMS: IF THE SPACE TEMPERATURE FALLS MORE THAN 5 DEG. F BELOW THE HEATING SETPOINT, AN ALARM SHALL BE INDICATED AT THE BMS.

G. EQUIPMENT ROOM 013 VENTILATION SYSTEM (EF-1,2, SF-1)

THE SYSTEM CONSISTS OF TWO EXHAUST FANS, A SUPPLY FAN WITH MOTORIZED DAMPER, AND A SPACE MOUNTED REFRIGERANT DETECTOR WITH A PARALLEL RELAY FOR TESTING EF-2 AND SF-1 FAN OPERATION VIA THE BMS.

EF-1 SHALL BE STARTED AND RUN AS FOLLOWS:

a. WHENEVER DOAS-1 IS ENABLED.

EF-2 AND SF-2 SHALL BE STARTED AND RUN AS FOLLOWS:

a. WHENEVER THE REFRIGERANT DETECTOR IS IN ALARM (>1000 ppm REFRIGERANT DETECTED, ADJ.) VIA HARD-WIRE INTERLOCK AND FOR A PERIOD OF 5 MINUTES AFTER THE ALARM HAS BEEN CLEARED.
b. THE FANS SHALL BE STARTED FROM THE BMS MONTHLY AND TEST RUN FOR A PERIOD OF 5 MINUTES (ADJ.), DURING WHICH TIME ANY FAILURE TO RUN OR DAMPER PROOF SHALL BE REPORTED AS AN ALARM EVENT AT THE BMS.
c. THE SF-1 MOTORIZED SHUT-OFF DAMPER SHALL OPEN ANYTIME SF-1 IS COMMANDED TO RUN VIA HARD-WIRE INTERLOCK.

THE FANS SHALL BE STOPPED AND THE MOTORIZED SHUT-OFF DAMPER CLOSED WHENEVER THE ABOVE CONDITIONS DO NOT EXIST.

ALARMS

THE FOLLOWING ALARMS SHALL BE INDICATED AT THE BMS:

a. MAXIMUM SPACE TEMPERATURE MORE THAN 5 DEG. F ABOVE SETPOINT
b. REFRIGERANT DETECTION ALARM
c. EF-2 OR SF-2 FAIL TO RUN.

THE REFRIGERANT DETECTION ALARM SHALL ALSO BE INDICATED LOCALLY VIA HORN/STROBE AT THE INTERIOR OF THE EQUIPMENT ROOM AND OUTSIDE THE ENTRY DOOR OF THE EQUIPMENT ROOM.

1

G. EQUIPMENT CLOSET 010A VENTILATION SYSTEM (EF-3)

THE SYSTEM CONSISTS OF AN EXHAUST FAN, AND A SPACE MOUNTED REFRIGERANT DETECTOR WITH A PARALLEL RELAY FOR TESTING EF-3 FAN OPERATION VIA THE BMS.

EF-3 SHALL BE STARTED AND RUN AS FOLLOWS:

a. WHENEVER THE REFRIGERANT DETECTOR IS IN ALARM (>1000 ppm REFRIGERANT DETECTED, ADJ.) VIA HARD-WIRE INTERLOCK AND FOR A PERIOD OF 5 MINUTES AFTER THE ALARM HAS BEEN CLEARED.
b. THE FAN SHALL BE STARTED FROM THE BMS MONTHLY AND TEST RUN FOR A PERIOD OF 5 MINUTES (ADJ.), DURING WHICH TIME ANY FAILURE TO RUN OR DAMPER PROOF SHALL BE REPORTED AS AN ALARM EVENT AT THE BMS.

THE FAN SHALL BE STOPPED WHENEVER THE ABOVE CONDITIONS DO NOT EXIST.

WHENEVER EF-3 IS RUNNING, THE OUTSIDE AIR DAMPERS FOR DOAS-1 AND DOA-2 SHALL BE COMMANDED OPEN IF NOT ALREADY OPEN.

ALARMS

THE FOLLOWING ALARMS SHALL BE INDICATED AT THE BMS:

a. REFRIGERANT DETECTION ALARM
b. EF-3 FAILS TO RUN.

THE REFRIGERANT DETECTION ALARM SHALL ALSO BE INDICATED LOCALL VIA HORN/STROBE AT THE INTERIOR OF THE EQUIPMENT ROOM AND OUTSIDE THE ENTRY DOOR OF THE EQUIPMENT ROOM.

H. PREVENTATIVE MAINTENANCE SCHEDULE

THE BMS SHALL INDICATE A PERIODIC MAINTENANCE (PM) ALERT FOR EACH SYSTEM/UNIT DESCRIBED IN THESE SEQUENCES WITH AN ADJUSTABLE INTERVAL BASED ON THE MANUFACTURER'S RECOMMENDED SERVICE INTERVAL FOR REPLACEMENT OF WEAR COMPONENTS, SYSTEM ADJUSTMENTS, CALIBRATIONS AND SEASONAL ADJUSTMENT/SWITCHOVER. MAINTENANCE ALERTS SHALL INCLUDE A DESCRIPTION OF THE REQUIRED MAINTENANCE ITEM. GENERAL OPERATIONAL VERIFICATION MAINTENANCE INTERVALS SHALL NOT EXCEED ONE YEAR FOR ANY MAJOR PIECE OF

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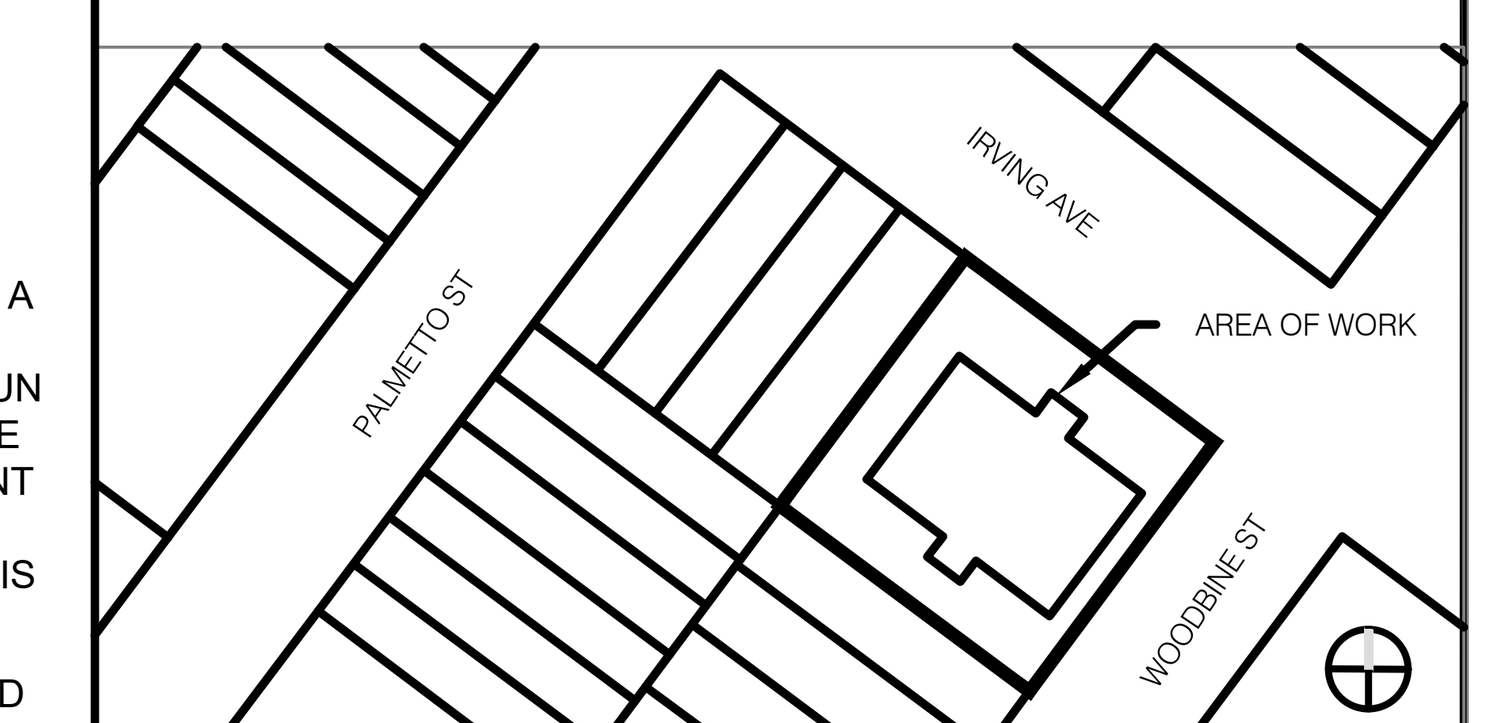
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LANDSCAPE ARCHITECT:
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
0	Issued for Bid	03-17-2026
1	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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PROJECT
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FOR THE:
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MECHANICAL CONTROL SEQUENCES

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DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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	FIXTURE DESCRIPTION	FIXTURE WATTAGE	DELIVERED LUMENTS	LUMINAIRE EFFICACY	CCT	CRI	BINNING STEPS	OPTICAL DSTRBTN	LED SOURCE	VOLTAGE	IP RATING	WIDTH / DIA	DEPTH	LENGTH	HOUSING FINISH / COLOR	OPTICS FINISH	TRIM FINISH / COLOR	TYPE OF CONTROL GEAR	CONTROL TYPE	NOTES	WARRANTY NOTES	APPROVED MANUFACTURER CATALOG NUMBER	VENDOR / REP (FOR APPROVED FIXTURE)	EQUIL MNFR 1	EQUIL MNFR 2	EQUIL MNFR 3
L1A	SURFACE CEILING MOUNTED 48W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	46W	5150	112 LM/W	3500K	90	3	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	1'	4"3/4	4'	-	LINEAR PRISMATIC LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	LITHONIA LIGHTING # BLTX4 48L ADP MVOLT EZ1 LP935-DIMMABLE	ILLUMINATIONS (917) 890 2440	MARK LIGHTING	HOLOPHANE	
L1A EM	SAME AS L1A WITH THE EMERGENCY BATTERY PACK																					LITHONIA LIGHTING # BLTX4 48L ADP MVOLT EZ1 LP935 EL14L				
L1B	SURFACE CEILING MOUNTED 32W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	32W	4025	116.9 LM/W	3500K	90	3	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	1'	2"3/4	4'	-	CURVED SMOOTH LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	LITHONIA LIGHTING # BLT4 40L ADSM MVOLT EZ1 LP935-DIMMABLE	ILLUMINATIONS (917) 890 2440	MARK LIGHTING	HOLOPHANE	
L1B EM	SAME AS L1B WITH EMERGENCY BATTERY PACK																					LITHONIA LIGHTING # BLT4 40L ADSM MVOLT EZ1 LP935 EL14L				
L2A	PENDANT CEILING MOUNTED 20W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	20W	2365	123 LM/W	3500K	90	2.5	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	4"	3"3/4	4'	WHITE	CONTINUOUS FLUSH LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	MARK ARCHITECTURAL LIGHTING # S4PD LLP MSL4 90CRI 35K 600LMF FLL -DIMMABLE	ILLUMINATIONS (917) 890 2440	ALW	ALIGHT	
L2A EM	SAME AS L2A WITH EMERGENCY BATTERY PACK																					MARK ARCHITECTURAL LIGHTING # S4PD LLP MSL4 90CRI 35K 600LMF FLL _E10WLC				
L2B	SURFACE CEILING MOUNTED 19W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	19W	2300	123 LM/W	3500K	90	2.5	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	4"	3"3/4	4'	WHITE	CONTINUOUS FLUSH LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	MARK ARCHITECTURAL LIGHTING # S4SD LLP MSL4 90CRI 35K 600LMF FLL-DIMMABLE	ILLUMINATIONS (917) 890 2440	ALW	ALIGHT	
L2C	SURFACE WALL MOUNTED 13W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	13W	1575	123 LM/W	3500K	90	2.5	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	4"	3"3/4	4'	WHITE	CONTINUOUS FLUSH LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	MARK ARCHITECTURAL LIGHTING # S4WD LLP MSL4 90CRI 35K 400LMF FLL-DIMMABLE	ILLUMINATIONS (917) 890 2440	ALW	ALIGHT	
L2C EM	SAME AS L2C WITH EMERGENCY BATTERY PACK																					MARK ARCHITECTURAL # S4WD LLP MSL4 90CRI 35K 400LMF FLL _E10WLCP				
L3A	SURFACE CEILING MOUNTED 15W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	15W	600	40 LM/W	4000K	80	4	DIFFUSED DISTRIBUTION	STATIC WHITE LED	MVOLT	IP65	4"9/16	10"5/8	-	-	FROSTED GLASS	-	INTEGRAL ELECTRONIC POWER SUPPLY	SWITCH	EE TO CONFIRM EMERGENCY VOLTAGE REQUIREMENTS PRIOR TO ORDERING	5 YEARS	LITHONIA LIGHTING # OLVTCM	ILLUMINATIONS (917) 890 2440	BARRON	SOLAS RAY	HOLOPHANE
L3B	SURFACE WALL MOUNTED 15W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	15W	600	40 LM/W	4000K	80	4	DIFFUSED DISTRIBUTION	STATIC WHITE LED	MVOLT	IP65	4"9/16	11 5/16"	-	-	FROSTED GLASS	-	INTEGRAL ELECTRONIC POWER SUPPLY	SWITCH	EE TO CONFIRM EMERGENCY VOLTAGE REQUIREMENTS PRIOR TO ORDERING	5 YEARS	LITHONIA LIGHTING # OLVTWM	ILLUMINATIONS (917) 890 2440	BARRON	SOLAS RAY	HOLOPHANE
L4A	SURFACE CEILING MOUNTED 25.5W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	25.5W	3236	126.9 LM/W	3500K	80	4	DIFFUSED DISTRIBUTION	STATIC WHITE LED BOARD	MVOLT	IP20	1'	2"5/8	4'	-	TRANSLUCENT WHITE DIFFUSER	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	LITHONIA LIGHTING # SBL4 3000LM 80CRI 35K MIN10 GZT MVOLT	ILLUMINATIONS (917) 890 2440	BARRON	SAGE	
L4A EM	SAME AS L4A WITH EMERGENCY BATTERY PACK																					LITHONIA LIGHTING # SBL4 3000LM 80CRI 35K MIN10 GZT MVOLT EL14L				
L4B	SAME AS L4A WITH AIRCRAFT MOUNTING CABLE	25.5W	3236	126.9 LM/W	3500K	80	4	DIFFUSED DISTRIBUTION	STATIC WHITE LED BOARD	MVOLT	IP20	1'	2"5/8	4'	-	TRANSLUCENT WHITE DIFFUSER	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	LITHONIA LIGHTING # SBL4 3000LM 80CRI 35K MIN10 GZT MVOLT	ILLUMINATIONS (917) 890 2440	BARRON	SAGE	
L5	SURFACE CEILING MOUNTED 20W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	20W	1843	105 LM/W	3500K	90	4	DIFFUSED DISTRIBUTION	STATIC WHITE LED BOARD	MVOLT	IP20	13"	0.9"	-	-	DIFFUSED LENS	-	REMOTE ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	JUNO LIGHTING # JSF 13IN 18LM 35K 90CRI MVOLT ZT WH	ILLUMINATIONS (917) 890 2440	CIP	SPITZER	
L5 EM	SAME AS L5 WITH EMERGENCY BATTERY PACK																					ILBLP CP10 HE SD				
L6-3FT	UNDER CABINET MOUNTED 17W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	16.4W	1222	77 LM/W	3500K	90	4	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	120	IP20	2.55"	1.07"	3'	-	DIFFUSED LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	SWITCH	EE TO CONFIRM EMERGENCY VOLTAGE REQUIREMENTS PRIOR TO ORDERING	5 YEARS	JUNO LIGHTING # UCES 36IN SWW6 90CRI WH M6-3500K	ILLUMINATIONS (917) 890 2440	BARRON	SAGE	CANDELLA
L7A	SURFACE CEILING MOUNTED 80W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	80W	7848	91 LM/W	3500K	90	2.5	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	8"1/4	1"3/4	8'	-	DIFFUSED LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	PEERLESS LIGHTING # BRM9L S LLLP 16FT MSL4 90CRI 35K 800LMF	ILLUMINATIONS (917) 525 7339	NULITE	MARK LIGHTING	
L7B	SURFACE CEILING MOUNTED 40.8 LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	40.8W	3984	94 LM/W	3500K	90	2.5	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	8"1/4	1"3/4	8'	-	DIFFUSED LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	PEERLESS LIGHTING # BRM9L S LLLP 8FT MSL8 90CRI 35K 600LMF	ILLUMINATIONS (917) 525 7339	NULITE	MARK LIGHTING	
L7B-EM	SAME AS L7B WITH EMERGENCY BATTERY PACK																					PEERLESS LIGHTING # BRM9L S LLLP 8FT MSL8 90CRI 35K 600LMF_E10WLCP				
L7C	SURFACE CEILING MOUNTED 40.8W LED DIFFUSED DISTRIBUTION DOWNLIGHT FIXTURE	40.8W	3984	98 LM/W	3500K	90	2.5	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP20	8"1/4	1"3/4	8'	-	DIFFUSED LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	PEERLESS LIGHTING # BRM9L S LLLP 68FT MSL8 90CRI 35K 500LMF	ILLUMINATIONS (917) 525 7339	NULITE	MARK LIGHTING	
L7C-EM	SAME AS L7C WITH EMERGENCY BATTERY PACK																					PEERLESS LIGHTING # BRM9L S LLLP 68FT MSL8 90CRI 35K 500LMF_E10WLCP				
L8	EXTERIOR POST MOUNTED LED HANDRAIL FIXTURE (ALLOW 2.5W/FT)	2.5W/FT	205	82 LM/W	3500K	85	3	90°	STATIC WHITE LINEAR LED	MVOLT	IP54	1.5"	1.5"	Per plan	-	CLEAR ACRYLIC LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	SWITCH	EE TO CONFIRM EMERGENCY VOLTAGE REQUIREMENTS PRIOR TO ORDERING	5 YEARS	COLE LIGHTING # LR6P-LED-SS/1.5-INT-ME-BP-35K-277	LIGHT ABILITIES (212) 242-3233	KLIK	WILA	HEPER
L9	SURFACE WALL MOUNTED LED ILLUMINATED MIRROR FF&E FIXTURE	VARIES BY MIRROR SIZE	N/A	90-100 LM/W	3000K	90+	N/A	DIFFUSED DISTRIBUTION	STATIC WHITE LINEAR LED	MVOLT	IP44	36"	24"	1.18"	-	FROSTED GLASS	-	INTEGRAL ELECTRONIC POWER SUPPLY	MOTION COMTROLS		5 YEARS	REFLECTIVE LIGHTING # RLM-RT-V-30-IFE-MC-T	ILLUMINATIONS (917) 525 7340	DUNTON HOUSE	LUMITHREE	
L10	EXTERIOR SURFACE WALL MOUNTED 75W LED DOWNLIGHT FIXTURE	75W	8840	107 LM/W	5000K	80	4	H 113" V114.5"BUG	STATIC WHITE LED	120V	IP54	13"	11.25"	9.25"	-	CLEAR TEMPERED GLASS LENS	-	INTEGRAL ELECTRONIC POWER SUPPLY	DIMMABLE (0-10V)	EE TO CONFIRM EMERGENCY VOLTAGE AND DIMMING REQUIREMENTS PRIOR TO ORDERING	5 YEARS	MORRIS # 71454C	NEW ENGLAND ELECTRICAL SALES (603) 434 6705	BARRON / TRACELITE	SAGE / TERRAIN	LITHONIA
Exit Light	SURFACE WALL MOUNTED LED EXIT LIGHT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HIGH-INTENSITY RED LEDS	120V	IP44	15.5"	11.5"	1.5"	-	-	-	INTEGRAL ELECTRONIC POWER SUPPLY	-		5 YEARS	BARRON # NY900U WB.SR.AG.	ILLUMINATIONS (917) 525 7340	LITHONIA	LSL	

NOTE:
1. PROVIDE EMERGENCY BATTERY PACK FOR EMERGENCY FIXTURES INDICATED ON LIGHTING PLANS.
2. LIGHT FIXTURE SCHEDULE AND LAYOUT BY ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

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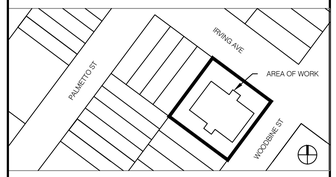
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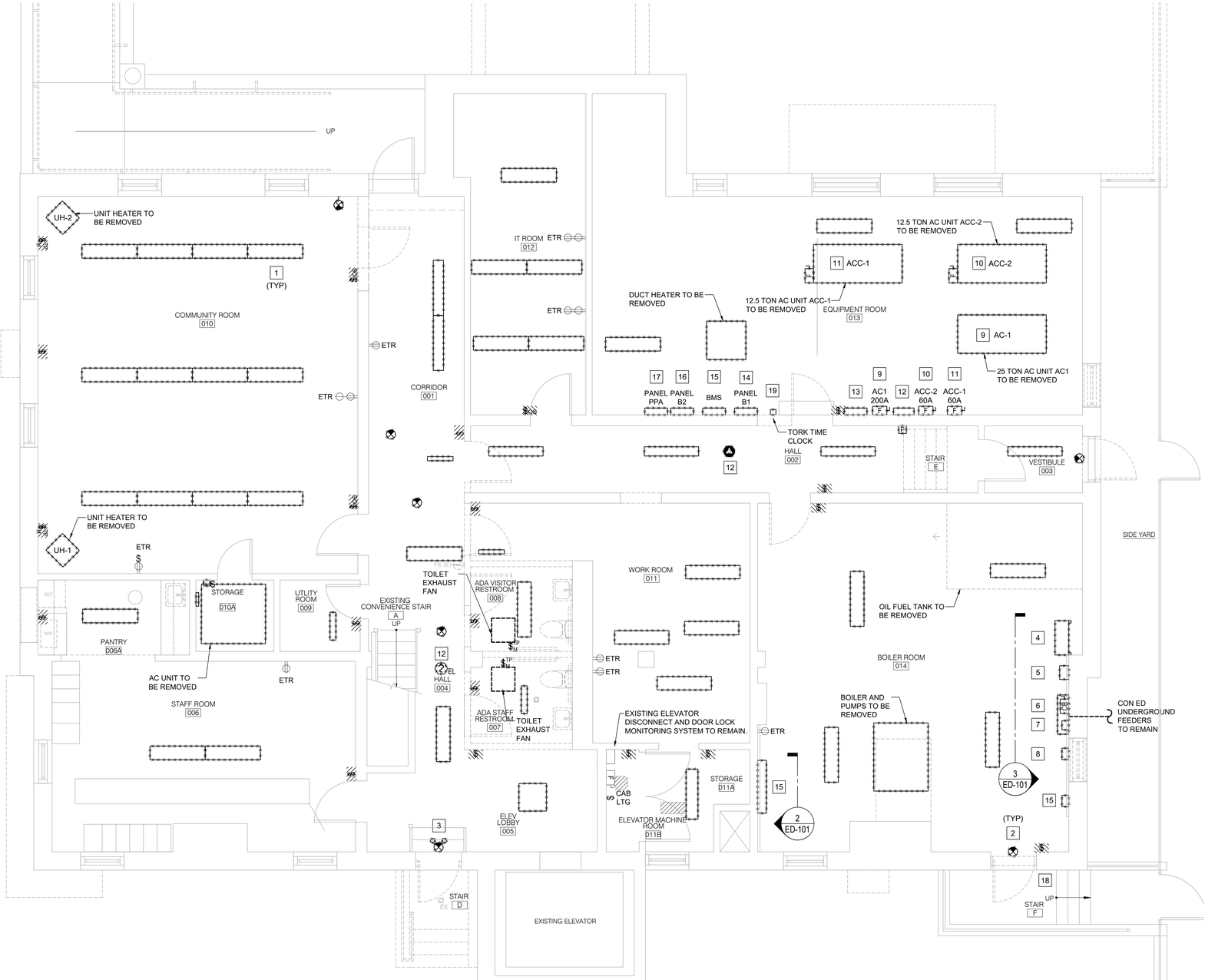
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DRAWING TITLE:
ELECTRICAL LIGHT FIXTURE SCHEDULE

SEAL & SIGNATURE

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01 ELECTRICAL BASEMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. REFER TO ELECTRICAL DEMOLITION ONE-LINE DIAGRAM FOR FURTHER INFORMATION.
2. CONTRACTOR SHALL TRACE AND IDENTIFY ALL EXISTING RECEPTACLE AND APPLICANCE BRANCH CIRCUITS THAT ARE EXISTING. ALL EXISTING TO REMAIN DEVICES AND EQUIPMENT SHALL BE RECONNECTED TO NEW PANELS WITH NEW DEVICES, COVERS, WIRING, AND CONDUITS.
3. DEMOLISH DENOTES DE-ENERGIZATION AND REMOVAL OF POWER SUPPLY TO THE DEVICE/EQUIPMENT, ASSOCIATED CONDUIT, WIRE BOXES, PULLBOXES, ETC.
4. ALL EXISTING ELECTRICAL SERVICE EQUIPMENT INCLUDING SERVICE END BOX SHALL BE REMOVED AND REPLACED.
5. ALL EXISTING LIGHTING CIRCUITS WILL BE REPLACED WITH NEW WIRING AND CONDUITS. CLOTH WIRING WILL BE REMOVED.

ELECTRICAL KEYED NOTES: #

1. EXISTING LIGHT FIXTURE AND ASSOCIATED CONDUIT, CABLE, AND CONTROL DEVICE TO BE DEMOLISHED.
2. EXISTING EXIT LIGHT FIXTURE TO BE DEMOLISHED.
3. EXISTING EXIT/EMERGENCY COMBO LIGHT FIXTURE TO BE DEMOLISHED.
4. EXISTING DISTRIBUTION PANEL TO BE DEMOLISHED.
5. EXISTING 200AS/150AF FUSED DISCONNECT TO BE DEMOLISHED.
6. EXISTING 225A ENCLOSED CIRCUIT BREAKER TO BE DEMOLISHED.
7. EXISTING METER ACTIC4242385 AND CT CABINET TO BE DEMOLISHED.
8. EXISTING 225A SERVICE CIRCUIT BREAKER TO BE DEMOLISHED.
9. EXISTING AC1 FUSED DISCONNECT AND TROUGH TO BE DEMOLISHED.
10. EXISTING ACC-2 FUSED DISCONNECT AND TROUGH TO BE DEMOLISHED.
11. EXISTING ACC-1 FUSED DISCONNECT AND TROUGH TO BE DEMOLISHED.
12. EXISTING FIRE ALARM SYSTEM AND ASSOCIATED DEVICES, CONDUIT, AND WIRING TO BE DEMOLISHED.
13. EXISTING 12 POLE PANEL FOR DUCT HEATERS TO BE DEMOLISHED.
14. EXISTING 24 POLE PANEL B1 TO BE DEMOLISHED AND REPLACED.
15. EXISTING BMS CONTROLS TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
16. EXISTING 12 POLE PANEL B2 TO BE DEMOLISHED AND REPLACED.
17. EXISTING 18 POLE PANEL PPA AND SURGE SUPPRESSION TO BE DEMOLISHED. COMBINE ALL EXISTING PANEL PPA CIRCUITS IN NEW PANEL B2. EXTEND EXISTING CIRCUITS AS REQUIRED. REMOVE ALL CLOTH WIRING.
18. EXISTING ABANDONED ELECTRICAL SERVICE TO BE DEMOLISHED.
19. EXISTING TORK TIME CLOCK TO BE DEMOLISHED. EXISTING FIXTURES TO REMAIN CONTROLLED BY TORK TIME CLOCK SHALL BE CONTROLLED VIA NEW ATHENA LIGHT MANAGEMENT HUB AND ASTRONOMICAL TIME CLOCK.



02 NTS

03 ELECTRICAL EQUIPMENT
SCALE: NTS

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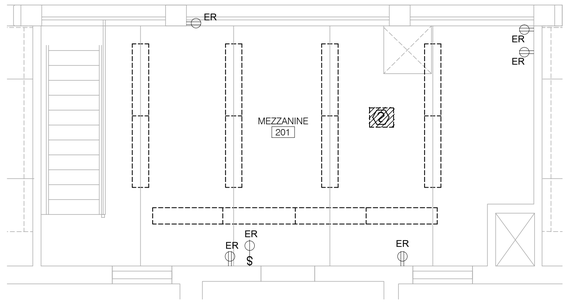
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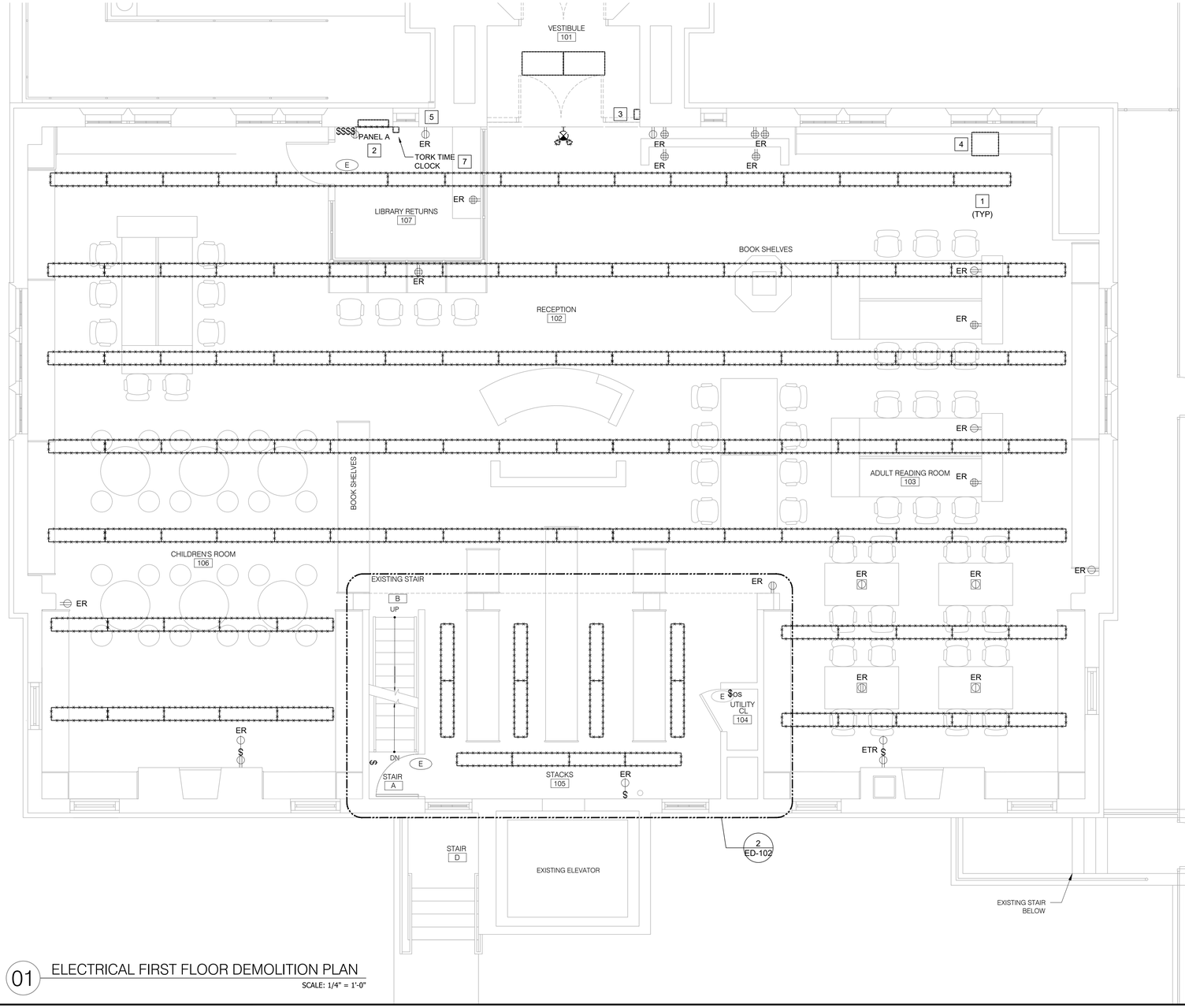


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02 ELECTRICAL MEZZANINE DEMOLITION PART PLAN

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



01 ELECTRICAL FIRST FLOOR DEMOLITION PLAN

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

ELECTRICAL GENERAL NOTES:

1. REFER TO ELECTRICAL DEMOLITION ONE-LINE DIAGRAM FOR FURTHER INFORMATION.
2. CONTRACTOR SHALL TRACE AND IDENTIFY EXISTING LIGHTING AND RECEPTACLE/APPLIANCE BRANCH CIRCUITS FOR REUSE
3. EXISTING APPLIANCE BRANCH CIRCUITS TO REMAIN. REPLACE ALL DEVICES UNLESS OTHERWISE NOTED.

ELECTRICAL KEYED NOTES: #

1. EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
2. EXISTING 24 POLE RECESSED PANEL A TO BE DEMOLISHED AND REPLACED.
3. EXISTING SECURITY SYSTEM KEY PAD TO BE DEMOLISHED.
4. REMOVE POWER SUPPLY TO EXISTING DUCT HEATER.
5. EXISTING RECEPTACLE AND ASSOCIATED CABLE AND CONDUIT TO BE RELOCATED. REFER TO ARCHITECTURAL DRAWINGS FOR MODIFICATIONS TO WALL.
6. EXISTING FIRE ALARM SYSTEM AND ASSOCIATED DEVICES, CONDUIT, AND WIRING TO BE DEMOLISHED.
7. EXISTING TORK TIME CLOCK TO BE DEMOLISHED. EXISTING FIXTURES TO REMAIN CONTROLLED BY TORK TIME CLOCK SHALL BE CONTROLLED VIA NEW ATHENA LIGHT MANAGEMENT HUB AND ASTRONOMICAL TIME CLOCK.

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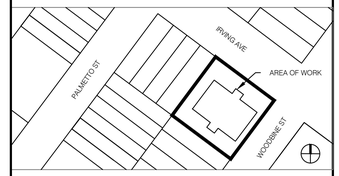
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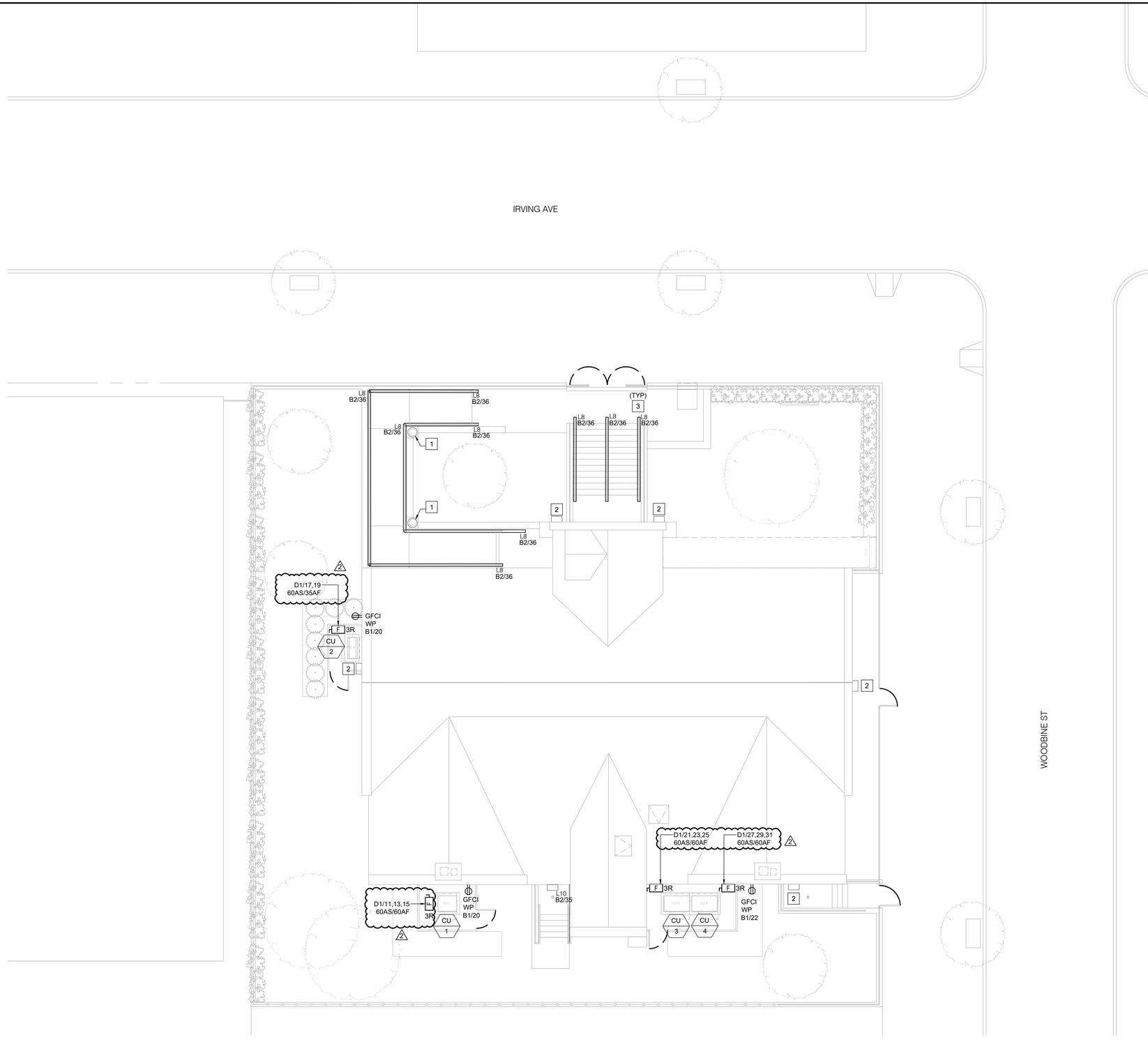
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01 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. ALL EXTERIOR DISCONNECTS SHALL BE STAINLESS STEEL.
2. ALL EXTERIOR WEATHER PROOF RECEPTACLES SHALL BE PROVIDED WITH WHILE IN USE COVERS.

ELECTRICAL KEYED NOTES: #

1. EXISTING LIGHT POLE AND FIXTURE TO REMAIN. EXISTING LIGHT POLE FIXTURES THAT ARE CONTROLLED BY THE EXISTING TORK TIME CLOCK SHALL BE CONTROLLED VIA NEW ATHENA LIGHT MANAGEMENT HUB IN THE BASEMENT ELECTRICAL ROOM.
2. EXISTING WALL PACKS ON BUILDING EXTERIOR ARE EXISTING TO REMAIN. EXISTING WALL PACK FIXTURES THAT ARE CONTROLLED BY THE EXISTING TORK TIME CLOCK SHALL BE CONTROLLED VIA NEW ATHENA LIGHT MANAGEMENT HUB IN THE BASEMENT ELECTRICAL ROOM.
3. PROVIDE NEW LIGHT RAIL INTEGRATED HANDRAIL. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION. CIRCUIT TO BE CONTROLLED BY ATHENA LIGHT MANAGEMENT HUB. REMOTE DRIVERS TO BE LOCATED INSIDE BUILDING IN THE BASEMENT IT ROOM. REFER TO BASEMENT LIGHTING PLAN FOR LOCATION ON PLANS.

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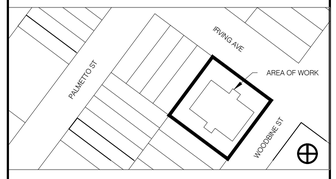
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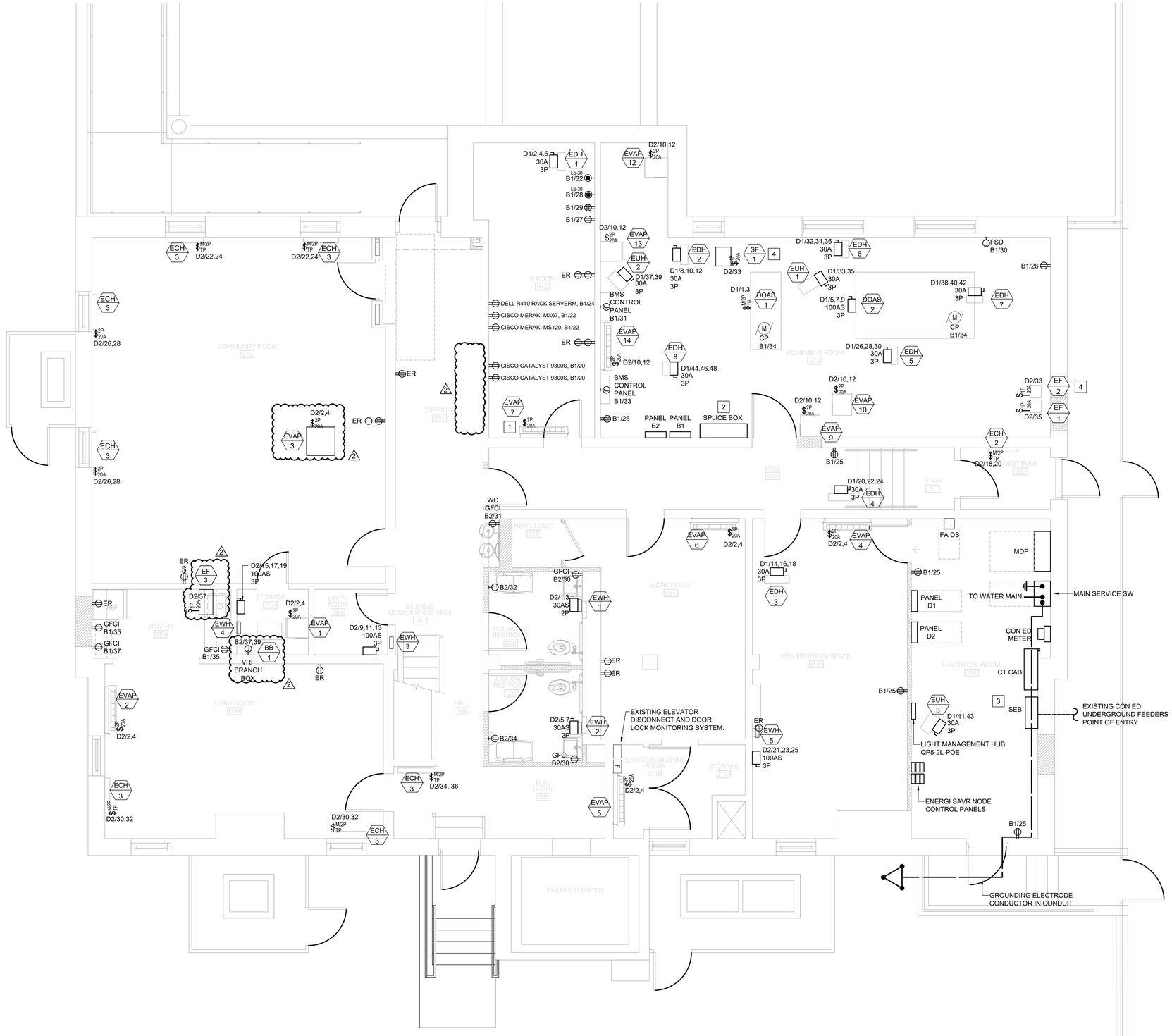
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01 ELECTRICAL BASEMENT POWER PLAN

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

ELECTRICAL GENERAL NOTES:

1. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR FURTHER INFORMATION.
2. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION ON PROPOSED MECHANICAL EQUIPMENT.
3. ALL MOTOR CONTROLLERS SHALL BE PROVIDED WITH SHUNT TRIP AND RESET CAPABILITIES.
4. PROVIDE NEW CONDUCTORS AND CONDUIT TO ER RECEPTACLES.
5. EXISTING RECEPTACLES TO BE TRACED AND REWIRED. CLOTH WIRING WILL BE REMOVED.

ELECTRICAL KEYED NOTES: [#]

1. INDOOR UNIT EVAP 7 POWERED FROM CU-2. PROVIDE 12/3 + G CONDUCTORS BETWEEN CU-2 AND EVAP 7 FOR POWER AND CONTROL.
2. CONTRACTOR SHALL PROVIDE SPLICE BOX TO FACILITATE EXTENSION OF EXISTING PANEL B1 CIRCUITS TO NEW LOCATION.
3. CONTRACTOR SHALL COORDINATE WITH CON ED SERVICE END BOX TYPE BASED ON EXISTING CON ED CONDITIONS ENTERING BUILDING.
4. SF-1 AND EF-2 SHALL BE ON ONE CIRCUIT FOR HARDWIRE INTERLOCK. REFER TO M-711 FOR ADDITIONAL INFORMATION.

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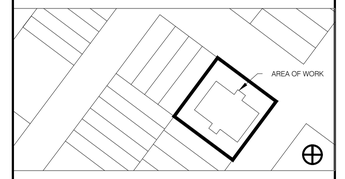
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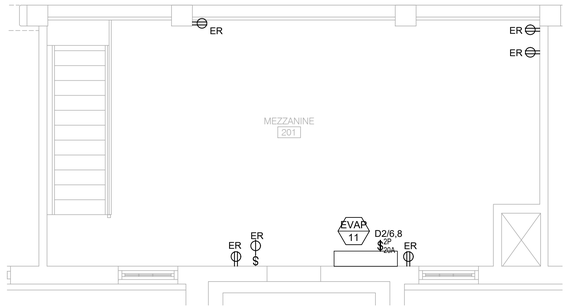
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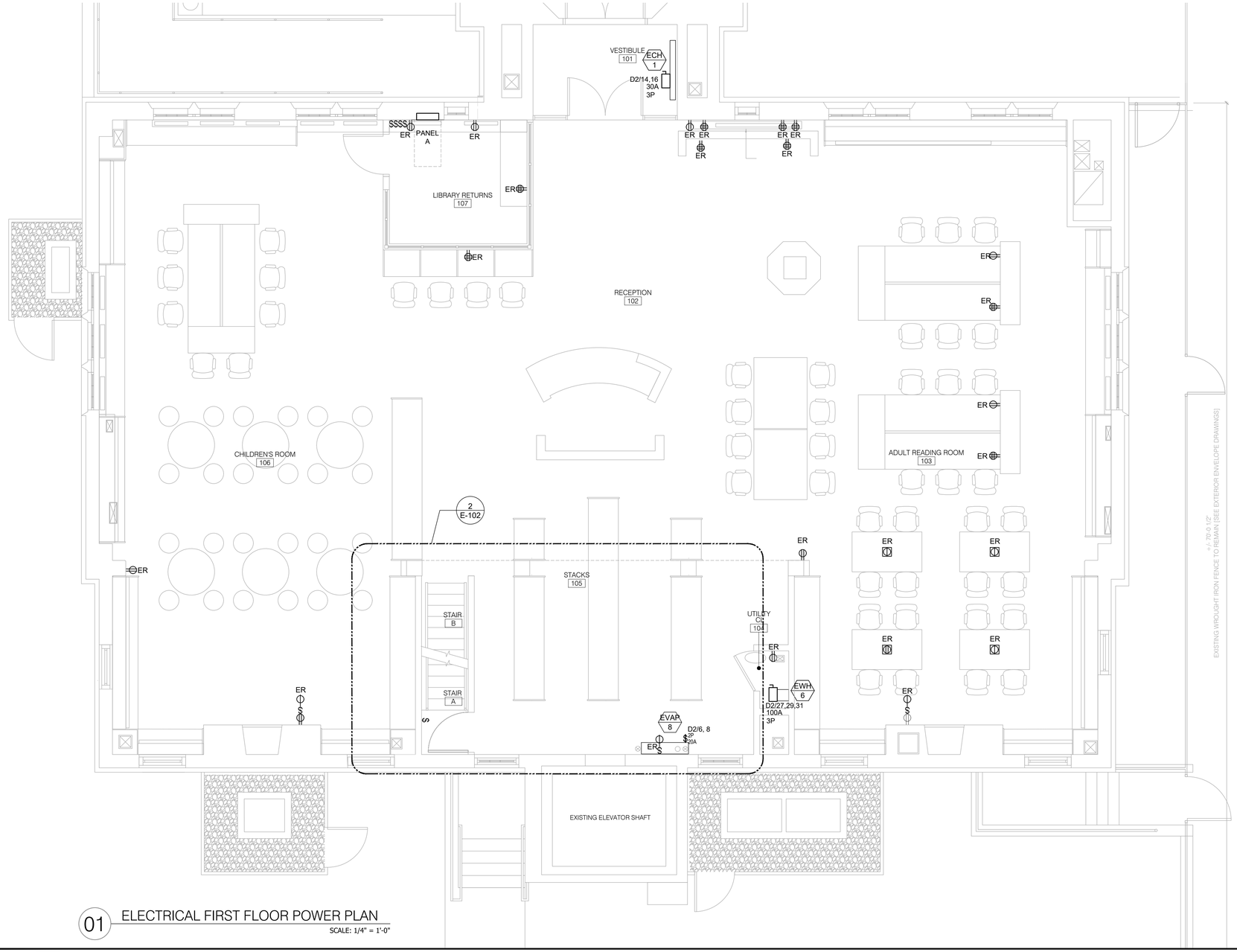
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02 ELECTRICAL MEZZANINE POWER PART PLAN

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



01 ELECTRICAL FIRST FLOOR POWER PLAN

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

ELECTRICAL GENERAL NOTES:

1. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR FURTHER INFORMATION.
2. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION ON PROPOSED MECHANICAL EQUIPMENT.
3. EXISTING RECEPTACLES TO BE TRACED AND REWIRED. CLOTH WIRING WILL BE REMOVED.

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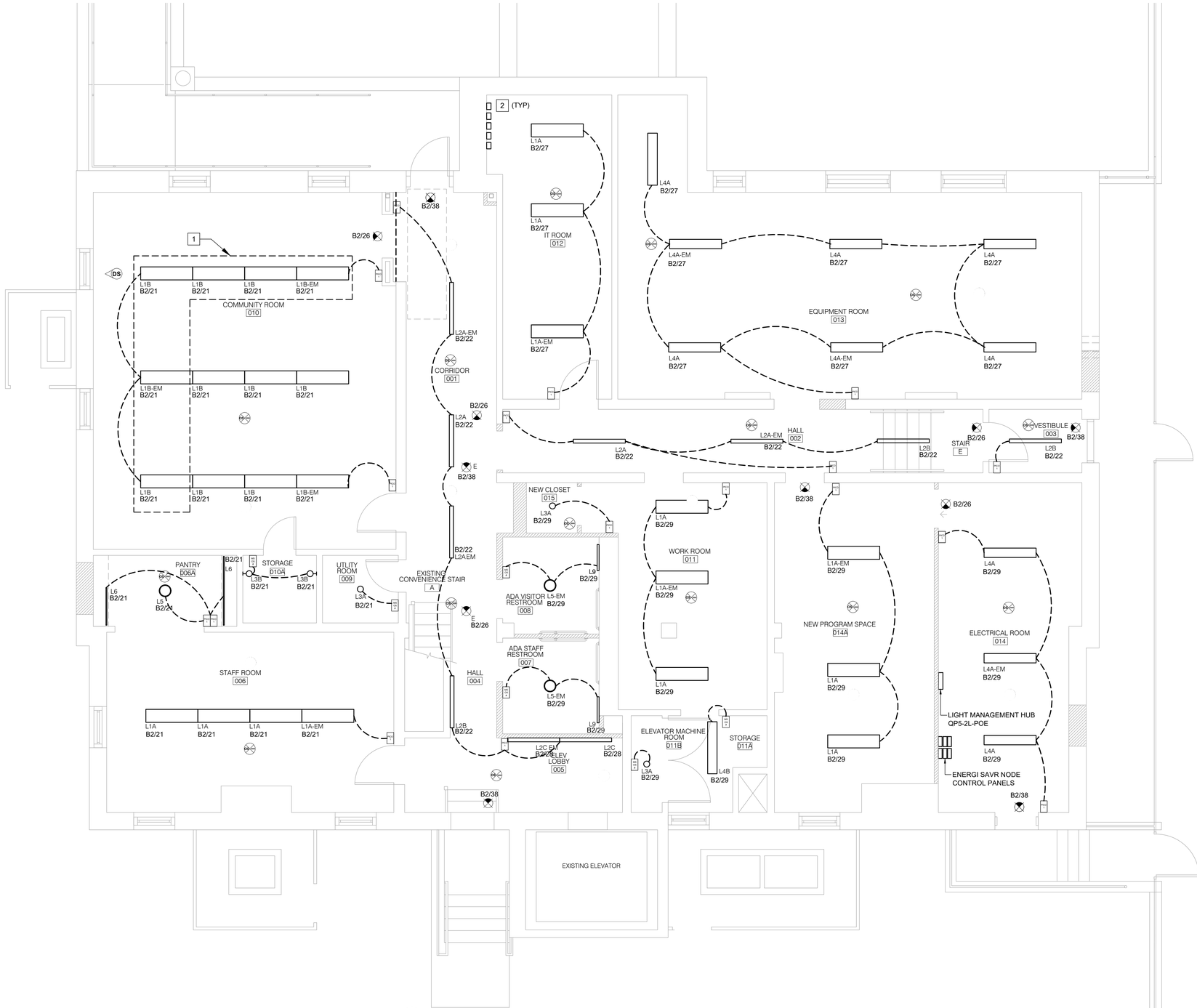
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ELECTRICAL GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR FURTHER INFORMATION.

ELECTRICAL KEYED NOTES: [#]

1. PROVIDE LIGHTING CONTROLS FOR LIGHT ZONE.
2. REMOTE DRIVERS FOR NEW LIGHT INTEGRATED HANDRAILS.



01 ELECTRICAL BASEMENT LIGHTING PLAN
SCALE: 1/4" = 1'-0"

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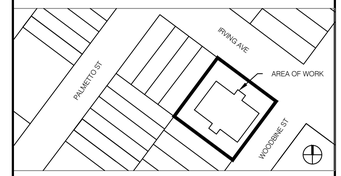
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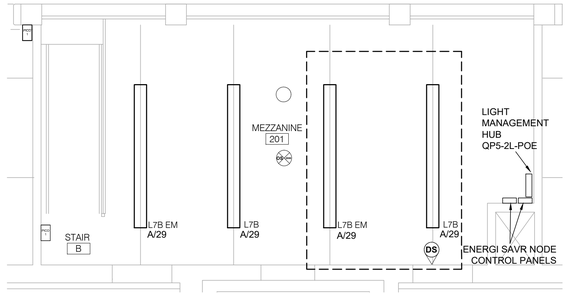
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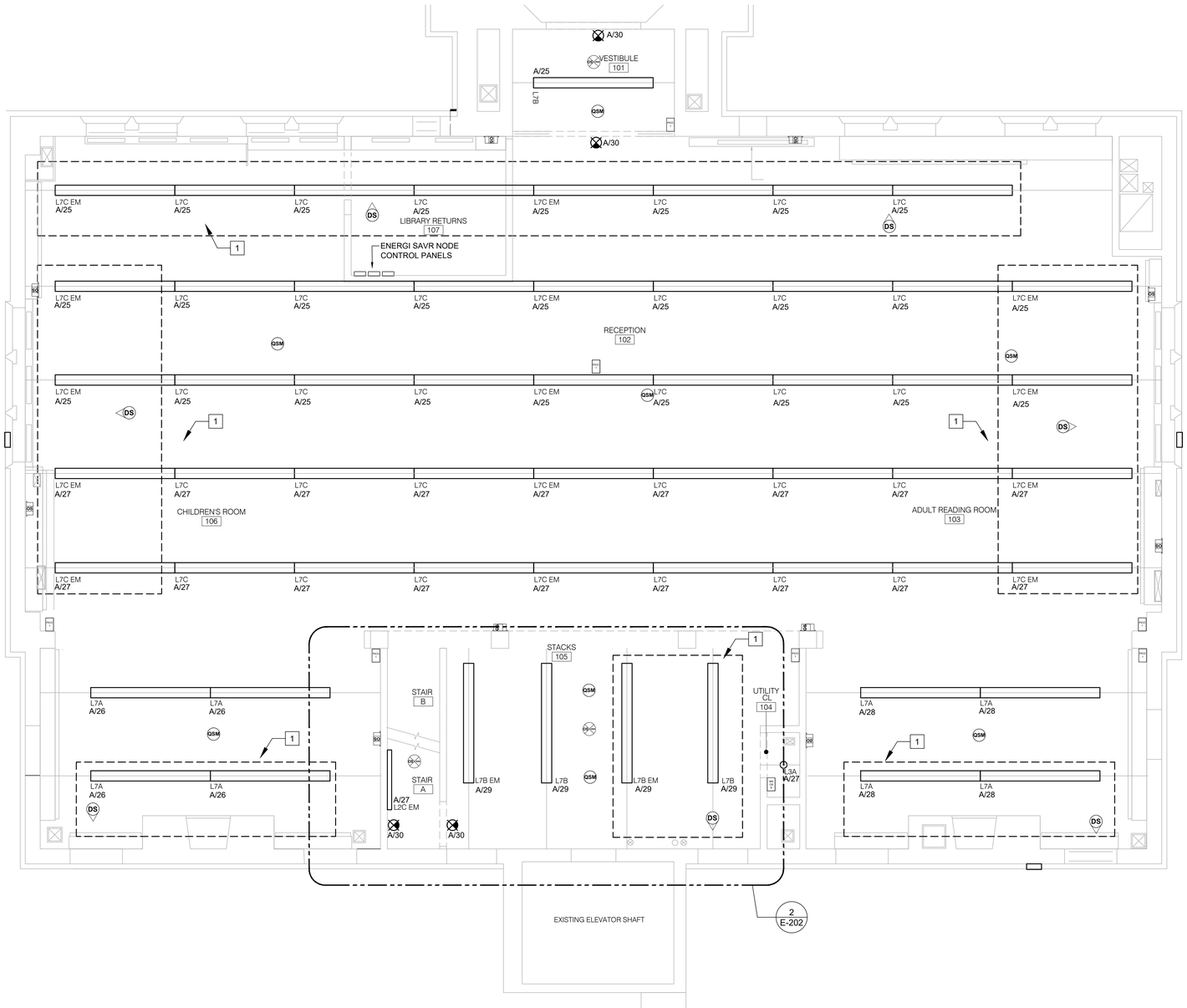
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CAD FILE No:	

09 OF 20



02 ELECTRICAL MEZZANINE LIGHTING PART PLAN

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



01 ELECTRICAL FIRST FLOOR LIGHTING PLAN

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

ELECTRICAL GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR FURTHER INFORMATION.

ELECTRICAL KEYED NOTES: #

1. PROVIDE LIGHTING CONTROLS FOR DAY LIGHT ZONE.

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

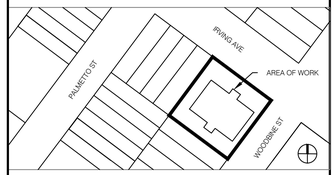
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



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360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

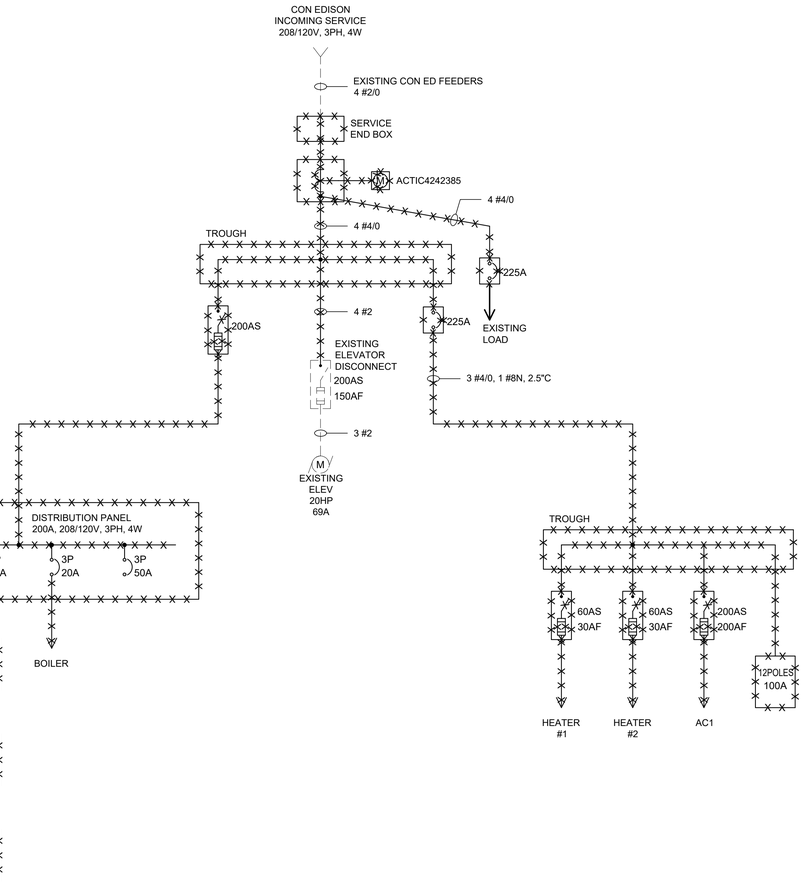
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
ELECTRICAL FIRST FLOOR LIGHTING PLAN

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360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

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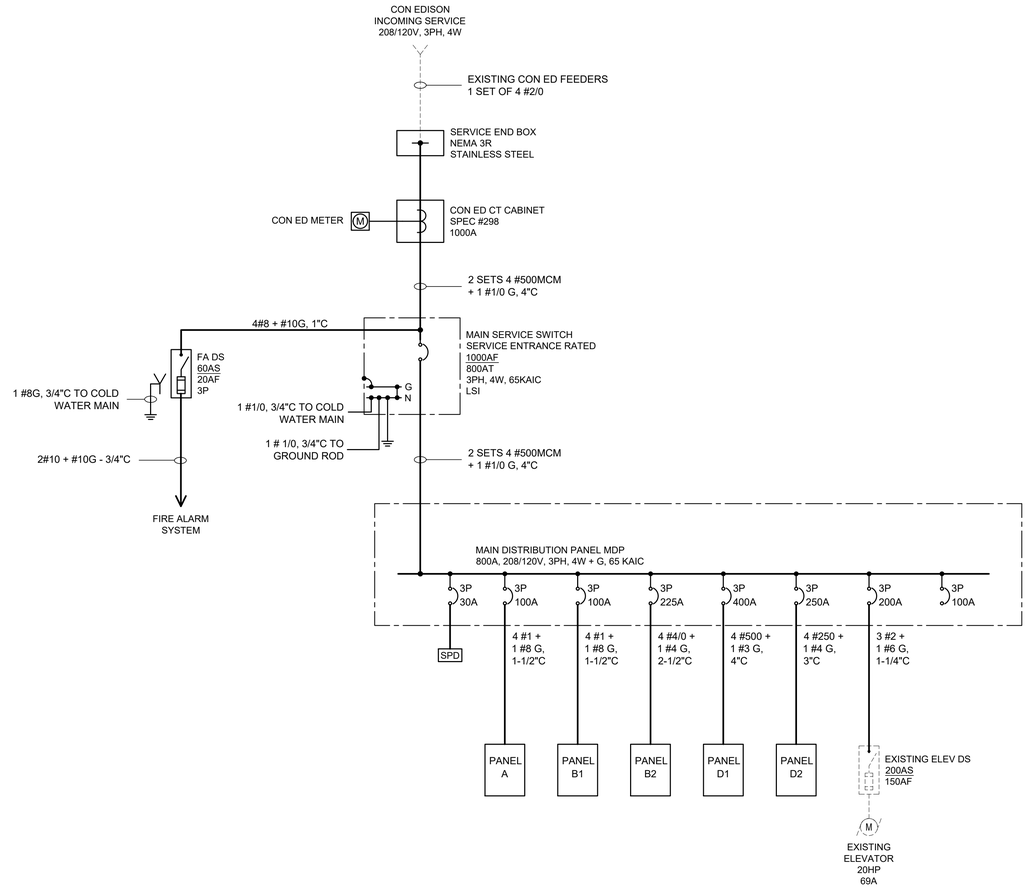
DRAWING TITLE:
ELECTRICAL DEMOLITION ONE LINE DIAGRAM

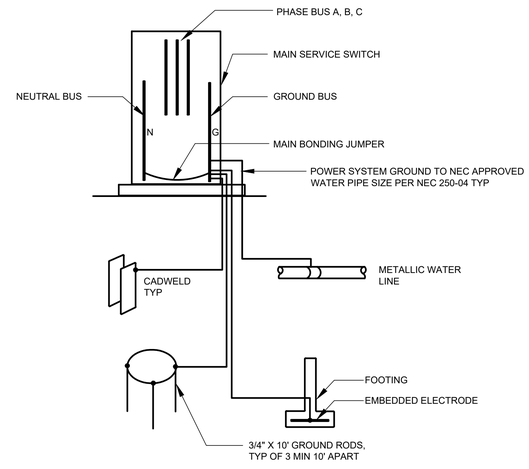
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01 MAIN SERVICE AND SYSTEMS GROUNDING DETAIL

SCALE: NTS

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360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

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LANDSCAPE ARCHITECT:
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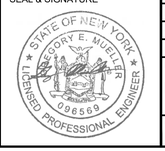
CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
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DRAWING TITLE:
ELECTRICAL ONE LINE DIAGRAM

SEAL & SIGNATURE



DATE:	03.11.2024
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PANELBOARD ID: EXISTING DISTRIBUTION PANEL (TO BE DEMOLISHED)

LOCATION: ELECTRICAL ROOM 014

MAIN BUS SIZE: 200A
MAIN PROTECTIVE TYPE: MLO
MAIN DEVICE SIZE: N/A

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: – KA
ENCLOSURE: NEMA 3R/12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	PANEL A	70	3	–	–	–		–	3	70	PANEL B	2
3	BOILER	20	2	–		–	–	–	3	50	SPARE	4
	CONNECTED LOAD (KVA/PHASE)				–	–	–					
	TOTAL CONNECTED LOAD (KVA)				–							
	TOTAL CONNECTED LOAD (AMP)				–							

PANELBOARD ID: EXISTING PANEL A (TO BE REPLACED)

LOCATION: FIRST FLOOR LIBRARY RETURNS

MAIN BUS SIZE: –
MAIN PROTECTIVE TYPE: –
MAIN DEVICE SIZE: –

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: – KA
ENCLOSURE: NEMA 3R/12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	LIGHTS	20	1	–	–	–		–	1	20	UNKNOWN	2
3	LIGHTS	20	1	–		–	–	–	1	20	UNKNOWN	4
5	LIGHTS	20	1	–			–	–	1	20	LIGHTS	6
7	LIGHTS	20	1	–	–			–	1	20	LIGHTS	8
9	UNKNOWN	20	1	–		–	–	–	1	20	UNKNOWN	10
11	FAN ABOVE PANEL A	20	1	–			–	–	1	20	OUTLET BELOW PANEL A	12
13	ADULT SECTION FAN & OUTLET	20	1	–	–	–		–	1	20	LIGHTS & OUTLETS MEZZ LEVEL	14
15	BROKEN BREAKER – UNKNOWN	20	1	–		–	–	–	1	20	UNKNOWN	16
17	UNKNOWN	20	1	–			–	–	1	20	UNKNOWN	18
19	UNKNOWN	20	1	–	–			–	1	20	UNKNOWN	20
21	UNKNOWN	20	1	–		–	–	–	1	20	OUTLET FOR BIG PRINTER	22
23	UNKNOWN	20	1	–			–	–	1	20	UNKNOWN	24
	CONNECTED LOAD (KVA/PHASE)				–	–	–					
	TOTAL CONNECTED LOAD (KVA)				–							
	TOTAL CONNECTED LOAD (AMP)				–							

PANELBOARD ID: EXISTING PANEL B1 (TO BE REPLACED)

LOCATION: EQUIPMENT ROOM 013

MAIN BUS SIZE: –
MAIN PROTECTIVE TYPE: –
MAIN DEVICE SIZE: –

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: – KA
ENCLOSURE: NEMA 3R/12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	UNKNOWN	20	1	–	–	–		–	1	20	UNKNOWN	2
3	WORK ROOM OUTLETS	20	1	–		–	–	–	1	20	OUTLETS IN MEETING/STORY ROOM	4
5	NEW CUSTODIANS ROOM LIGHTS	20	1	–			–	–	1	20	STAFF ROOM LIGHTS, 1ST OUTLET, CUSTODIAN CLOSET, CLOSET IN MEETING/STORY ROOM	6
7	WORK ROOM LIGHTS	20	1	–	–			–	1	20	WOODBINE SIDE EXTERIOR LIGHT, EXIT SIGN, BOILER ROOM EXIT SIGN	8
9	MEETING/STORY ROOM LIGHTS	20	1	–		–	–	–	1	20	MEETING/STORY ROOM OUTLET, STAFF ROOM WATER COOLER OUTLET	10
11	OUTLETS BELOW AC SWITCH – NEW CUSTODIANS ROOM, WORK ROOM WALL OUTLET	20	1	–			–	–	1	20	EXIT SIGN FRONT DOOR, BOILER ROOM LIGHTS & OUTLETS	12
13	UNKNOWN	20	1	–	–			–	1	20	MEETING/STORY ROOM EXHAUST FAN	14
15	UNKNOWN	20	1	–		–	–	–	1	20	STAFF ROOM KITCHEN EXHAUST FAN	16
17	WIRES IN JBOX ABOVE PANEL B3	20	1	–			–	–	1	20	HALLWAY LIGHTS – BASEMENT	18
19	WIRES IN JBOX ABOVE PANEL B3	20	1	–	–			–	1	20	50AMP 3PHASE PANEL BS-B3 FEED	20
21	UNKNOWN	20	1	–		–	–	–	1	20	50AMP 3PHASE PANEL BS-B3 FEED	22
23	UNKNOWN	20	1	–			–	–	1	20	50AMP 3PHASE PANEL BS-B3 FEED	24
	CONNECTED LOAD (KVA/PHASE)				–	–	–					
	TOTAL CONNECTED LOAD (KVA)				–							
	TOTAL CONNECTED LOAD (AMP)				–							

PANELBOARD ID: EXISTING PANEL B2 (TO BE REPLACED)

LOCATION: EQUIPMENT ROOM 013

MAIN BUS SIZE: –
MAIN PROTECTIVE TYPE: –
MAIN DEVICE SIZE: –

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: – KA
ENCLOSURE: NEMA 3R/12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	BATHROOM 1 LIGHT & LIGHT IN FRONT OF ELEVATOR	20	1	–	–	–		–	1	20	BMS	2
3	UNKNOWN	20	1	–		–	–	–	1	20	POLE LIGHTS	4
5	BATHROOM HAND DRYER & OUTLET BOX	20	1	–			–	–	1	20	RESEARCH COMPUTER OUTLETS	6
7	UNKNOWN	20	1	–	–			–	1	20	UNKNOWN	8
9	UNKNOWN	20	1	–		–	–	–	1	20	UNKNOWN	10
11	ELEVATOR ROOM LIGHTS & OUTLET	20	1	–			–	–	1	20	UNKNOWN	12
	CONNECTED LOAD (KVA/PHASE)				–	–	–					
	TOTAL CONNECTED LOAD (KVA)				–							
	TOTAL CONNECTED LOAD (AMP)				–							

PANELBOARD ID: EXISTING PANEL PPA (TO BE REPLACED)

LOCATION: EQUIPMENT ROOM 013

MAIN BUS SIZE: –
MAIN PROTECTIVE TYPE: –
MAIN DEVICE SIZE: –

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: – KA
ENCLOSURE: NEMA 3R/12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	UNKNOWN	20	1	–	–	–		–	1	20	OUTLET MAIN FLOOR – ADULT AREA	2
3	OUTLET NEXT TO BIG PRINTER	20	1	–		–	–	–	1	20	OUTLET – MEZZ LEVEL BEHIND DESK	4
5	OUTLETS – FEE MACHINES – FRONT DOOR	20	1	–			–	–	1	20	OUTLET MAIN FLOOR – FRONT DOOR	6
7	OUTLETS – ADULT TABLE #1-6	20	1	–	–			–	1	20	OUTLET MAIN FLOOR – ADULT AREA	8
9	EMPTY	20	1	–		–	–	–	1	20	EMPTY	10
11	OUTLETS – ADULT TABLE #7-12	20	1	–			–	–	1	20	SURGE PROTECTOR	12
13	OUTLETS – FRONT MAIN DESK	20	1	–	–			–	1	20	EMPTY	14
	CONNECTED LOAD (KVA/PHASE)				–	–	–					
	TOTAL CONNECTED LOAD (KVA)				–							
	TOTAL CONNECTED LOAD (AMP)				–							

PANEL SCHEDULE KEY
EX DISTRIBUTION PANEL
EX PANEL A
EX PANEL B1
EX PANEL B2
EX PANEL PPA

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
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1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES - SHEET 1

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DATE:	03.11.2024
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PANELBOARD ID: PANEL A

LOCATION: FIRST FLOOR LIBRARY RETURNS

MAIN BUS SIZE: 100A
MAIN PROTECTIVE TYPE: MLO
MAIN DEVICE SIZE: N/A

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: 22 KA
ENCLOSURE: NEMA 12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	LIGHTS	20	1	–	–			–	1	20	UNKNOWN	2
3	LIGHTS	20	1	–		–		–	1	20	UNKNOWN	4
5	LIGHTS	20	1	–			–	–	1	20	LIGHTS	6
7	LIGHTS	20	1	–	–			–	1	20	LIGHTS	8
9	UNKNOWN	20	1	–		–		–	1	20	UNKNOWN	10
11	FAN ABOVE PANEL A	20	1	–			–	–	1	20	OUTLET BELOW PANEL A	12
13	ADULT SECTION FAN & OUTLET	20	1	–	–			–	1	20	LIGHTS & OUTLETS MEZZ LEVEL	14
15	BROKEN BREAKER – UNKNOWN	20	1	–		–		–	1	20	UNKNOWN	16
17	UNKNOWN	20	1	–			–	–	1	20	UNKNOWN	18
19	UNKNOWN	20	1	–	–			–	1	20	UNKNOWN	20
21	UNKNOWN	20	1	–		–		–	1	20	OUTLET FOR BIG PRINTER	22
23	UNKNOWN	20	1	–			–	–	1	20	UNKNOWN	24
25	**1ST FLOOR LIGHTS**	60	1	–	1	0.4		–	1	20	**1ST FLOOR LIGHTS**	26
27	**1ST FLOOR LIGHTS**	60	1	–		0.7	0.3	–	1	20	**1ST FLOOR LIGHTS**	28
29	**MEZZANINE LIGHTS**	20	1	–			0.2	–	1	20	**EXIT LIGHTS**	30
31	**UTILITY CLOSET OUTLET**	20	1	–	0.02		0.01	–	1	20	SPARE	32
33	SPARE	20	1	–		–		–	1	20	SPARE	34
35	SPARE	20	1	–			–	–	1	20	SPARE	36
37	SPACE	20	1	–	–			–	1	20	SPACE	38
39	SPACE	20	1	–		–		–	1	20	SPACE	40
41	SPACE	20	1	–			–	–	1	20	SPACE	42

CONNECTED LOAD (KVA/PHASE)	1.3	1.0	0.2
TOTAL CONNECTED LOAD (KVA)	2.5 + EXISTING		
TOTAL CONNECTED LOAD (AMP)	22 + EXISTING		

PANELBOARD ID: PANEL B2

LOCATION: EQUIPMENT ROOM 013

MAIN BUS SIZE: 225A
MAIN PROTECTIVE TYPE: MLO
MAIN DEVICE SIZE: N/A

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: 22 KA
ENCLOSURE: NEMA 12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	BATHROOM 1 LIGHT & LIGHT IN FRONT OF ELEVATOR	20	1	–	–			–	1	20	BMS	2
3	UNKNOWN	20	1	–		–		–	1	20	POLE LIGHTS	4
5	BATHROOM HAND DRYER & OUTLET BOX	20	1	–			–	–	1	20	RESEARCH COMPUTER OUTLETS	6
7	UNKNOWN	20	1	–	–			–	1	20	UNKNOWN	8
9	UNKNOWN	20	1	–		–		–	1	20	UNKNOWN	10
11	ELEVATOR ROOM LIGHTS & OUTLET	20	1	–			–	–	1	20	UNKNOWN	12
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15	OUTLET NEXT TO BIG PRINTER	20	1	–		–		–	1	20	OUTLET – MEZZ LEVEL BEHIND DESK	16
17	OUTLETS – FEE MACHINES – FRONT DOOR	20	1	–			–	–	1	20	OUTLET MAIN FLOOR – FRONT DOOR	18
19	OUTLETS – ADULT TABLE #1-6	20	1	–	–			–	1	20	OUTLET MAIN FLOOR – ADULT AREA	20
21	**LIGHTS**	20	1	2#12 + #12G – 3/4"C		0.66	0.15	2#12 + #12G – 3/4"C	1	20	**HALL AND CORRIDOR LIGHTS**	22
23	OUTLETS – ADULT TABLE #7–12	20	1	–				–	1	20	SURGE PROTECTOR	24
25	OUTLETS – FRONT MAIN DESK	20	1	–	–	0.01		2#12 + #12G – 3/4"C	1	20	**EXIT LIGHTS**	26
27	**IT AND EQUIPMENT ROOM LIGHTS**	20	1	2#12 + #12G – 3/4"C		0.3	0.1	2#12 + #12G – 3/4"C	1	20	**ELEV LOBBY LIGHTS**	28
29	**LIGHTS**	20	1	2#12 + #12G – 3/4"C			0.4	2#12 + #12G – 3/4"C	1	20	**NEW RESTROOM OUTLETS**	30
31	**NEW WATER COOLER OUTLET**	20	1	2#12 + #12G – 3/4"C	1	0.95	0.36	2#12 + #12G – 3/4"C	1	20	**ADA VISITOR RESTROOM HAND DRYER**	32
33	**NEW PANTRY OUTLET**	20	1	2#12 + #12G – 3/4"C		0.18	0.95	2#12 + #12G – 3/4"C	1	20	**ADA STAFF RESTROOM HAND DRYER**	34
35	**NEW OUTSIDE WALL PACK FIXTURE**	20	1	2#12 + #12G – 3/4"C	0.01		0.08	2#12 + #12G – 3/4"C	1	20	**NEW OUTSIDE HANDRAIL FIXTURES**	36
37	**NEW VRF BRANCH BOX**	15	1	2#12 + #12G – 3/4"C	0.01	0.01		2#12 + #12G – 3/4"C	1	20	**EXIT LIGHTS**	38
39						0.01		–	1	20	SPACE	40
41	SPACE	20	1	–			–	–	1	20	SPACE	42

CONNECTED LOAD (KVA/PHASE)	2.06	2.34	1.94
TOTAL CONNECTED LOAD (KVA)	6.24 + EXISTING		
TOTAL CONNECTED LOAD (AMP)	17 + EXISTING		

PANELBOARD ID: PANEL B1

LOCATION: EQUIPMENT ROOM 013

MAIN BUS SIZE: 100A
MAIN PROTECTIVE TYPE: MLO
MAIN DEVICE SIZE: N/A

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: 22 KA
ENCLOSURE: NEMA 12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1	UNKNOWN	20	1	–	–			–	1	20	UNKNOWN	2
3	WORK ROOM OUTLETS	20	1	–		–		–	1	20	OUTLETS IN MEETING/STORY ROOM	4
5	CUSTODIANS ROOM LIGHTS	20	1	–			–	–	1	20	STAFF ROOM LIGHTS, REF OUTLET, CUSTODIAN CLOSET, CLOSET IN MEETING/STORY ROOM	6
7	WORK ROOM LIGHTS	20	1	–	–			–	1	20	WOODSIDE SIDE EXTERIOR LIGHT, EXIT SIGN, BOILER ROOM EXIT SIGN	8
9	MEETING/STORY ROOM LIGHTS	20	1	–		–		–	1	20	MEETING/STORY ROOM OUTLET, STAFF ROOM WATER COOLER OUTLET	10
11	OUTLETS BELOW AC SWITCH – NEW CUSTODIANS ROOM, WORK ROOM WALL OUTLET	20	1	–			–	–	1	20	EXTERIOR FRONT DOOR, BOILER ROOM LIGHTS & OUTLET	12
13	UNKNOWN	20	1	–	–			–	1	20	MEETING/STORY ROOM EXHAUST FAN	14
15	UNKNOWN	20	1	–		–		–	1	20	STAFF ROOM KITCHEN EXHAUST FAN	16
17	WIRES IN JBOX ABOVE PANEL B3	20	1	–			–	–	1	20	HALLWAY LIGHTS – BASEMENT	18
19	WIRES IN JBOX ABOVE PANEL B3	20	1	–	–	1		2#12 + #12G – 3/4"C	1	20	**NEW CISCO CATALYST OUTLETS**	20
21	UNKNOWN	20	1	–		–	0.8	2#12 + #12G – 3/4"C	1	20	**NEW CISCO MERAKI OUTLETS**	22
23	UNKNOWN	20	1	–			–	2#12 + #12G – 3/4"C	1	20	**NEW DELL R440 RACK OUTLET**	24
25	**NEW ELECTRICAL ROOM OUTLETS**	20	1	2#12 + #12G – 3/4"C	0.36			2#12 + #12G – 3/4"C	1	20	**NEW EQUIPMENT ROOM OUTLETS**	26
27	**NEW IT ROOM DUPLEX RECEPTACLE**	20	1	2#12 + #12G – 3/4"C		0.18	0.5	2#12 + #12G – 3/4"C	1	20	**NEW IT ROOM SPECIAL RECEPTACLE**	28
29	**NEW IT ROOM QUAD RECEPTACLE**	20	1	2#12 + #12G – 3/4"C			0.36	2#12 + #12G – 3/4"C	1	20	**NEW EQUIPMENT ROOM FSD**	30
31	**BMS CONTROL PANEL**	20	1	2#12 + #12G – 3/4"C	0.01	0.4	0.01	2#12 + #12G – 3/4"C	1	20	**NEW IT ROOM SPECIAL RECEPTACLE**	32
33	**BMS CONTROL PANEL**	20	1	2#12 + #12G – 3/4"C		0.01	0.3	2#12 + #12G – 3/4"C	1	20	**NEW CONDENSING PUMPS**	34
35	**NEW KITCHEN RECEPTACLE**	20	1	2#12 + #12G – 3/4"C			0.36	–	1	20	SPARE	36
37	**NEW KITCHEN RECEPTACLE**	20	1	2#12 + #12G – 3/4"C	0.18	–	–	–	1	20	SPACE	38
39	SPACE	20	1	–		–	–	–	1	20	SPACE	40
41	SPACE	20	1	–			–	–	1	20	SPACE	42

CONNECTED LOAD (KVA/PHASE)	2.22	1.8	1.36
TOTAL CONNECTED LOAD (KVA)	5.4 + EXISTING		
TOTAL CONNECTED LOAD (AMP)	15 + EXISTING		

PANELBOARD ID: PANEL D1

LOCATION: ELECTRICAL ROOM 014

MAIN BUS SIZE: 400A
MAIN PROTECTIVE TYPE: MLO
MAIN DEVICE SIZE: N/A

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: 22 KA
ENCLOSURE: NEMA 12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1					0.86							2
3	DOAS-1	30	2	2#10 + #10G – 3/4"C		0.86		3#10 + #10G – 3/4"C	3	30	EDH-1, 6kW	4
5							5.85					6
7	DOAS-2	100	3	3#1 + #8G – 1-1/2"C	5.85							8
9						5.85		3#10 + #10G – 3/4"C	3	30	EDH-2, 6kW	10
11							4.8					12
13	CU-1	60	3	3#4 + #8G – 1-1/4"C	4.8							14
15						4.8		3#10 + #10G – 3/4"C	3	30	EDH-3, 6kW	16
17	CU-2	30	2	2#10 + #10G – 3/4"C			2.6					18
19					2.6							20
21						5.4		3#10 + #10G – 3/4"C	3	30	EDH-4, 6kW	22
23	CU-3	60	3	3#4 + #8G – 1-1/4"C			5.4					24
25					5.4							26
27						5.4		3#10 + #10G – 3/4"C	3	30	EDH-5, 5kW	28
29	CU-4	60	3	3#4 + #8G – 1-1/4"C			5.4					30
31					5.4							32
33	EUH-1	30	2	2#10 + #10G – 3/4"C	0.8	1.5	0.8	3#10 + #10G – 3/4"C	3	30	EDH-6, 2.5kW	34
35							1.5					36
37	EUH-2	30	2	2#10 + #10G – 3/4"C	1.5	2.3	0.8					38
39						1.5		3#10 + #10G – 3/4"C	3	30	EDH-7, 7kW	40
41	EUH-3	30	2	2#10 + #10G – 3/4"C		2.3	1.5					42
43					1.5		2.3					44
45	SPARE	20	2	–		1.1		3#10 + #10G – 3/4"C	3	30	EDH-8, 3.5kW	46
47						1.5	1.1					48
49	SPARE	20	2	–	–			–	2	20	SPARE	50
51						–						52
53	SPARE	20	2	–	–		–	–	2	20	SPARE	54
55						–						56
57	SPACE	20	2	–		–	–	–	3	20	SPACE	58
59							–					60

CONNECTED LOAD (KVA/PHASE)	39.8	38.7	40.4		
TOTAL CONNECTED LOAD (KVA)	119			TOTAL DEMAND LOAD (KVA)	101
TOTAL CONNECTED LOAD (AMP)	330			TOTAL DEMAND LOAD (AMP)	280

PANELBOARD ID: PANEL D2

LOCATION: ELECTRICAL ROOM 014

MAIN BUS SIZE: 400A
MAIN PROTECTIVE TYPE: MLO
MAIN DEVICE SIZE: N/A

VOLTAGE: 208/120V
CONNECTION: 3 PH, 4 WIRE + G
CYCLES: 60 HZ

BRANCH BKRS TYPE: BOLT-ON
NEUTRAL: 100%
EQUIPMENT GROUND BUS: –

MOUNTING: SURFACE
SC RATING: 22 KA
ENCLOSURE: NEMA 12

CKT NO.	DESIGNATION/LOAD SERVES	BREAKER TRIP	BREAKER POLES	BRANCH CIRCUIT	LOAD (KVA) A	LOAD (KVA) B	LOAD (KVA) C	BRANCH CIRCUIT	BREAKER POLES	BREAKER TRIP	DESIGNATION/LOAD SERVES	CKT. NO.
1					2							2
3	EWH-1, 4.1kW	30	2	2#10 + #10G – 3/4"C		2		2#12 + #12G – 3/4"C	2	20	EVAP-1 TO EVAP-6	4
5					0.5		2					6
7	EWH-2, 4.1kW	30	2	2#10 + #10G – 3/4"C		0.5		2#12 + #12G – 3/4"C	2	20	EVAP-8, 11	8
9					2		0.2					10
11	EWH-3, 18kW	100	3	3#1 + #8G – 1-1/2"C		6		2#12 + #12G – 3/4"C	2	20	EVAP-9, 10, 12, 13, 14	12
13					6		6					14
15						2.3						16
17	EWH-4, 18kW	100	3	3#1 + #8G – 1-1/2"C	1.5		2.3	2#12 + #12G – 3/4"C	2	20	ECH-1, 3kW	18
19						6						20
21					6	1.5	6					22
23	EWH-5, 18kW	100	3	3#1 + #8G – 1-1/2"C	0.5		0.5	2#12 + #12G – 3/4"C	2	20	ECH-2, 1.1kW	24
25						6						26
27					6	0.75	6					28
29	EWH-6, 18kW	100	3	3#1 + #8G – 1-1/2"C	0.75		0.75	2#12 + #12G – 3/4"C	2	20	ECH-3 (2X COMMUNITY RM), 0.75kW EACH	30
31					6	6						32
2 33	SF-1, EF-2	20	1	2#12 + #12G – 3/4"C	0.24		0.38	2#12 + #12G – 3/4"C	2	20	ECH-3 (2X STAFF ROOM), 0.75kW EACH	34
35	EF-1	20	1	2#12 + #12G – 3/4"C		0.1					ECH-3 (1X STAFF ROOM), 0.75kW	36
2 37	EF-3	20	1	2#12 + #12G – 3/4"C	0.25		0.38	–	2	20	EVAP-14	38
39	SPARE	20	1	–		–						40
41	SPARE	20	1	–			–	–	2	20	SPARE	42
43	SPARE	20	1	–	–							44
45	SPARE	20	2	–		–		–	2	20	SPARE	46
47							–					48
49	SPARE	20	2	–	–							50
51						–		–	3	20	SPARE	52
53	SPARE	20	2	–			–					54
55					–							56
57	SPACE	20	2	–		–	–	–	3	20	SPACE	58
59							–					60

CONNECTED LOAD (KVA/PHASE)	32.2	32.3	30.9		
TOTAL CONNECTED LOAD (KVA)	95.4			TOTAL DEMAND LOAD (KVA)	81
TOTAL CONNECTED LOAD (AMP)	264			TOTAL DEMAND LOAD (AMP)	225

DISTRIBUTION PANELBOARD SCHEDULE: MDP

LOCATION: EQUIPMENT ROOM 014

MANUFACTURER: N/A
MAIN PROTECTIVE DEVICE: N/A
MAIN BUS SIZE: 800A
NEMA RATING: TYPE 12/3R

SYSTEM VOLTAGE: 208Y/120V, 3ø, 4W
PHASE: 3ø, 4W + GROUND: 60 HERTZ

BRANCH BREAKERS TYPE: BOLT-ON
NEUTRAL BUS: 100%
EQUIPMENT GROUND BUS: –
ISOLATED GROUND BUS: –

MOUNTING: SURFACE
DOOR REQUIRED: –
AIC RATING (A): 65,000
SERVICE ENTRANCE RATED: NO

FEEDER NO	DESCRIPTION (LOAD SERVES)	BREAKER (AMP) FRAME	BREAKER (AMP) TRIP	BREAKER (AMP) POLES	LOAD KVA	FEEDER SIZE (THWN–2)	CONDUIT SIZE	NOTES
1	PANEL A	100	100	3	2.5	SEE ONE–LINE DIAGRAM	–	KVA SHOWN IS FOR NEW CIRCUITS
2	PANEL B1	100	100	3	5.4	SEE ONE–LINE DIAGRAM	–	KVA SHOWN IS FOR NEW CIRCUITS
3	PANEL B2	225	225	3	6.24	SEE ONE–LINE DIAGRAM	–	KVA SHOWN IS FOR NEW CIRCUITS
4	PANEL D1	400	400	3	119	SEE ONE–LINE DIAGRAM	–	
5	PANEL D2	400	250	3	95.4	SEE ONE–LINE DIAGRAM	–	
6	EXISTING ELEVATOR	225	200	3	24.8	SEE ONE–LINE DIAGRAM	–	
7	SPD	100	30	3	0.01	3#10 + #10G – 3/4"C	–	
8	SPARE	100	100	3	–	–	–	
9	SPARE	225	225	3	–	–	–	
10	SPACE	100	100	3	–	–	–	
11	SPACE	225	225	3	–	–	–	
12	SPACE	400	400	3	–	–	–	
		TOTAL CONNECTED LOAD (KVA)			253 + EXISTING			
		TOTAL CONNECTED LOAD (AMP)			700 + EXISTING			

PANEL SCHEDULE KEY	
PANEL A	PANEL B2
PANEL B1	PANEL D1
PANEL D2	PANEL MDP

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

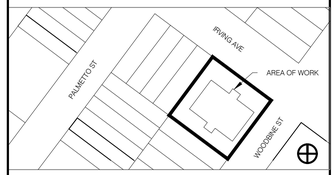
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026
2	Addendum 1	08-05-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

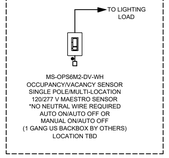
DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES - SHEET 2

SEAL & SIGNATURE

STATE OF NEW YORK · JESSE KEMERSON · LICENSED PROFESSIONAL ENGINEER · 105638

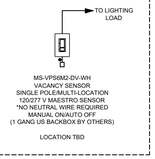
DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	VS
CHECKED BY:	JK
DRAWING NUMBER:	**E-501.00**
CAD FILE No:	

AS REQUIRED PER ZONE
FOR CONTROL OF NON-DIM LOADS



MS-OPS6M2-DV-WH
OCCUPANCY/VACANCY SENSOR
SINGLE POLE/MULTI-LOCATION
120/277 V MAESTRO SENSOR
*NO NEUTRAL WIRE REQUIRED
AUTO ON/AUTO OFF OR
MANUAL ON/AUTO OFF
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

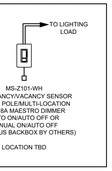
AS REQUIRED PER ZONE
FOR CONTROL OF NON-DIM LOADS



MS-VPS6M2-DV-WH
VACANCY SENSOR
SINGLE POLE/MULTI-LOCATION
120/277 V MAESTRO SENSOR
*NO NEUTRAL WIRE REQUIRED
MANUAL ON/AUTO OFF
(1 GANG US BACKBOX BY OTHERS)

LOCATION TBD

AS REQUIRED PER ZONE
FOR CONTROL OF 0-10V LOADS



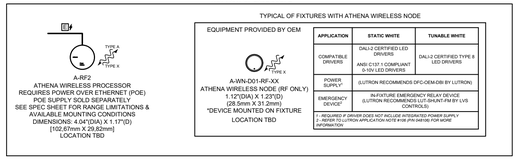
MS-Z101-WH
OCCUPANCY/VACANCY SENSOR
SINGLE POLE/MULTI-LOCATION
0-10V 8A MAESTRO DIMMER
AUTO ON/AUTO OFF OR
MANUAL ON/AUTO OFF
(1 GANG US BACKBOX BY OTHERS)

LOCATION TBD

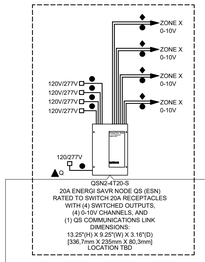
STANDALONE WALLBOX

OPTIONAL SYSTEM DESIGN - FOR TOTAL INSTALLATION SAVINGS AND LUTRON DIMMING PANEL REDUCTION TO BE COORDINATED AT THE REQUEST OF THE ELECTRICAL CONTRACTOR

NOT PART OF BASE SCOPE

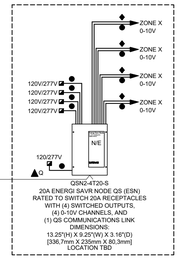


MINIMUM OF (2) REQUIRED
FOR CONTROL OF UP TO (4) NORMAL 0-10V OR NON-DIM ZONES
E.C. TO DETERMINE TOTAL QTY



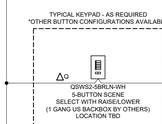
QSN2-4T20-S
20A ENERGI SAVR NODE QS (ESN)
RATED TO SWITCH 20A RECEPTACLES
WITH (4) SWITCHED OUTPUTS,
(4) 0-10V CHANNELS, AND
(1) QS COMMUNICATIONS LINK
DIMENSIONS:
13.25"(H) X 9.25"(W) X 3.16"(D)
[336.7mm X 235mm X 80.3mm]
LOCATION TBD

MINIMUM OF (1) REQUIRED
FOR CONTROL OF UP TO (4) NORMAL/EMERGENCY 0-10V OR NON-DIM ZONES
E.C. TO DETERMINE TOTAL QTY



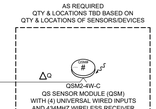
QSN2-4T20-S
20A ENERGI SAVR NODE QS (ESN)
RATED TO SWITCH 20A RECEPTACLES
WITH (4) SWITCHED OUTPUTS,
(4) 0-10V CHANNELS, AND
(1) QS COMMUNICATIONS LINK
DIMENSIONS:
13.25"(H) X 9.25"(W) X 3.16"(D)
[336.7mm X 235mm X 80.3mm]
LOCATION TBD

TYPICAL KEYPAD - AS REQUIRED
*OTHER BUTTON CONFIGURATIONS AVAILABLE



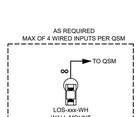
QSWS2-2BRLN-WH
5-BUTTON SCENE
SELECT WITH RAISE/LOWER
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

AS REQUIRED
QTY & LOCATIONS TBD BASED ON
QTY & LOCATIONS OF SENSORS/DEVICES



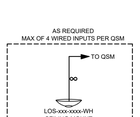
QSM2-4W-C
QS SENSOR MODULE (QSM)
WITH (4) UNIVERSAL WIRED INPUTS
AND 434MHZ WIRELESS RECEIVER
60'[18.29m] RADIUS RF COVERAGE
(30'[9.14m] THROUGH WALLS)
4.04"[102.6mm] (DIA) X 1.17"[29.7mm] (D)
LOCATION TBD

AS REQUIRED
MAX OF 4 WIRED INPUTS PER QSM



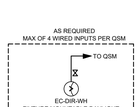
LOS-xxx-WH
WALL MOUNT
OCCUPANCY SENSOR
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

AS REQUIRED
MAX OF 4 WIRED INPUTS PER QSM



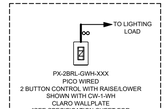
LOS-xxx-xxxx-WH
CEILING MOUNT
OCCUPANCY SENSOR
4.5"[114mm] (DIA) X 1.4"[35.6mm] (D)
LOCATION TBD

AS REQUIRED
MAX OF 4 WIRED INPUTS PER QSM



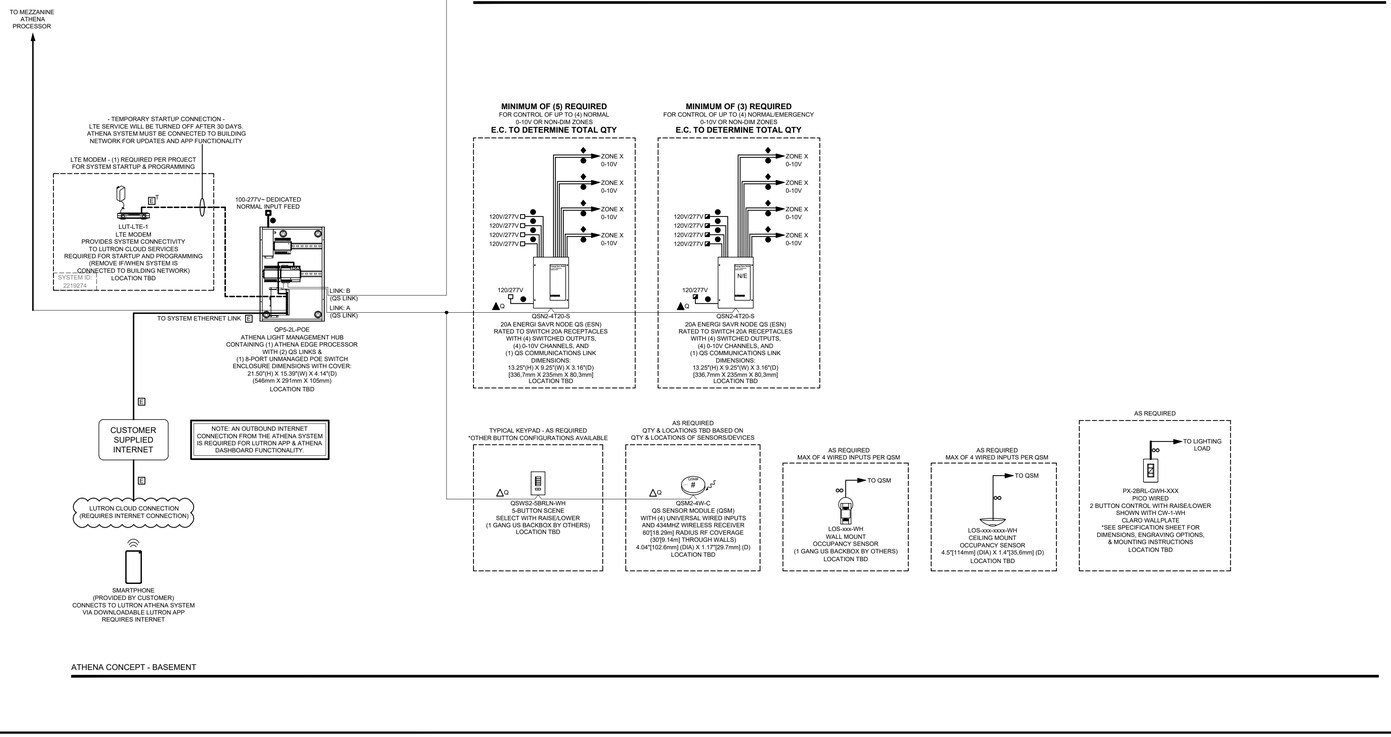
EC-DIR-WH
FIXTURE MOUNTABLE DAYLIGHT SENSOR W/ IR RECEIVER
(1 MAX PER BALLAST/MODULE)
1.18"[30mm] DIA
LOCATION TBD

AS REQUIRED



PX-2BRL-GWH-XXX
PICO WIRED
2 BUTTON CONTROL WITH RAISE/LOWER SHOWN WITH CW-1-WH
CLARO WALLPLATE
*SEE SPECIFICATION SHEET FOR DIMENSIONS, ENGRAVING OPTIONS, & MOUNTING INSTRUCTIONS
LOCATION TBD

ATHENA CONCEPT - FLOOR 1



ATHENA CONCEPT - BASEMENT

WIRING LEGEND:

- QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
- QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW) (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH
(REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES):

TOTAL CONTROL LINK LENGTH	WIRE GAUGE	AVAILABLE FROM LUTRON IN ONE CABLE:
LESS THAN 500ft (152.4 m)	POWER (TERMINALS 1&2): 1 PAIR 18 AWG (1.0 mm²)	GRX-CBL-346S (NON-PLENUM) OR GRX-PCBL-346S (PLENUM)
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	
500ft (152.4 m) TO 2,000ft (610 m)**	POWER (TERMINALS 1&2): 1 PAIR 12 AWG (4.0 mm²)	GRX-CBL-46L (NON-PLENUM) OR GRX-PCBL-46L (PLENUM)
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9451).

**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).

- INPUT POWER (NORMAL/EMERGENCY)
- INPUT POWER (NORMAL)
- 2 #12AWG (4 mm²)
- 3 #12AWG (4 mm²)
- 0-10V SIGNAL, 2 #18AWG (1.0 mm²)

CONTACT CLOSURE SIGNAL: 2 #18AWG (1.0 mm²)

CONTACT CLOSURE SIGNAL: 3 #18AWG (1.0 mm²)

– TEMPORARY ETHERNET CONNECTION – CAT5E OR BETTER CABLE FOR LUTRON NETWORK. TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN.

- CLEAR CONNECT - TYPE A WIRELESS SIGNAL
- CLEAR CONNECT - TYPE A 2-WAY WIRELESS SIGNAL
- CLEAR CONNECT - TYPE X WIRELESS SIGNAL

TYPE X

- LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 3 #22 AWG (1.0 mm²)
- LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 4 #22 AWG (1.0 mm²)

CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN.

POWER OVER ETHERNET (POE) ETHERNET LINK. CAT5E OR BETTER CABLE FOR LUTRON NETWORK. TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN

WIRING NOTES:

ATHENA QS LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE IN WIRING LEGEND FOR WIRE RUN LIMITS.
- IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED; SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET.
- FOR 2-LINK EDGE PROCESSORS (QPS-2L-POE & QPS-4L-POE) PER LINK LIMITS ARE:
  - MAXIMUM OF 512 SWITCHLEGS (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
  - MAXIMUM OF 100 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS, AND 100 KEYPADS.
  - MAXIMUM OF 100 QS DEVICES (SUCH AS A SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-10PNL], ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
  - MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT.
  - THE 10 OUTPUTS ON A QSPS-10PNL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).
- FOR 1-LINK EDGE PROCESSORS (QPS-1L-POE & QPS-1L-PER LINK LIMITS ARE:
  - MAXIMUM OF 256 SWITCHLEGS (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
  - MAXIMUM OF 50 OCCUPANCY SENSORS, 50 DAYLIGHT SENSORS, & 50 WALL CONTROLS.
  - MAXIMUM OF 25 QS DEVICES (SUCH AS A SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-10PNL], ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
  - MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT.
  - MAXIMUM OF 8 DMX INTERFACES (QSE-CI-DMX).
  - THE 10 OUTPUTS ON A QSPS-10PNL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).
- ATHENA WIRELESS PROCESSOR (A-RP2):
  - CLEAR CONNECT - TYPE A DEVICE LIMITS:
    - MAXIMUM DISTANCE OF 30 FT (9M) THROUGH WALLS OR 60 FT (18M) LINE-OF-SIGHT
    - MAXIMUM OF 10 TOTAL CLEAR CONNECT - TYPE A DEVICES PER PROCESSOR
      - MAXIMUM OF 5 DAYLIGHT SENSORS PER PROCESSOR
      - MAXIMUM OF 10 OCCUPANCY / VACANCY SENSORS PER PROCESSOR
      - MAXIMUM OF 50 PICO WIRELESS KEYPADS
  - CLEAR CONNECT - TYPE X DEVICE LIMITS:
    - REFER TO CLEAR CONNECT TYPE X - GENERAL NOTES BELOW

ATHENA SYSTEM ETHERNET LINK

CAT5e OR BETTER ETHERNET CABLE TO BE RUN FOR SYSTEM ETHERNET LINK, TERMINATED WITH RJ45 CONNECTORS. SYSETM ETHERNET LINK WIRING USES A STANDARD ETHERNET CONNECTION. ALL WIRING MUST COMPLY WITH IEEE 802.3 STANDARDS. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT. THIS APPLIES FOR INTERPROCESSOR COMMUNICATION AND COMMUNICATION LINES TO LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS. USE LUTRON'S Q-POE-PNL OR UNMANAGED ETHERNET SWITCHES FOR LONGER DISTANCES. LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS MUST BE CONNECTED TO A POE CAPABLE SWITCH THAT MEETS IEEE 802.3at-2003 OR 802.3at-2009 REQUIREMENTS.

PROCESSORS CANNOT BE DAISY CHAINED. DO NOT DAISY CHAIN PROCESSORS USING THE SECOND ETHERNET PORT. THE SECOND ETHERNET CONNECTION IS USED FOR SERVICE DIAGNOSTICS ONLY. EACH PROCESSOR MUST BE CONNECTED TO AN ETHERNET SWITCH.

MAXIMUM OF (16) ATHENA EDGE PROCESSORS & CLEAR CONNECT - TYPE X GATEWAYS MAY BE CONNECTED AS A SINGLE ATHENA SYSTEM.

CONCEPT DRAWING NOTES:
CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATIONS AND QUANTITIES, SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LEDS OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

EMERGENCY SPECIFICATION TEMPLATE

ELECTRICAL ENGINEER TO DETERMINE EMERGENCY LIGHTING REQUIREMENTS BELOW.

NOTE: CHECK ALL APPLICABLE OPTIONS.

STEP 1: PLEASE CHECK ONE.

- ☐ LUTRON TO PROVIDE EMERGENCY LIGHTING EQUIPMENT. [PROCEED TO STEP 2]
- ☐ EMERGENCY LIGHTING PER OTHERS (LUTRON SHALL NOT PROVIDE EMERGENCY LIGHTING EQUIPMENT). [DO NOT PROCEED IF SELECTED.]
  - ○ EMERGENCY LIGHTING FROM BATTERY PACKS SUPPLIED WITH FIXTURES.
  - ○ CONTRACTOR TO PROVIDE UL924 LISTED EM TRANSFER RELAYS - FOR BEST PERFORMANCE, "LUT-" EM RELAYS BY LVS CONTROLS
  - ○ EMERGENCY LIGHTING FIXTURES NOT CONNECTED TO LUTRON SYSTEM.

STEP 2: PLEASE CONFIRM EMERGENCY POWER SOURCE DETAILS. CHECK ALL THAT APPLY.

- ☐ EMERGENCY LIGHTING FIXTURES WILL HAVE POWER INTERRUPTED DURING TRANSFER FROM NORMAL SOURCE TO EMERGENCY SOURCE, SUCH AS GENERATOR.
  - ○ LUTRON TO SPECIFY (NOT PROVIDE) EMERGENCY INVERTER FOR SYSTEM PROCESSOR/HUB.
- ☐ EMERGENCY LIGHTING FIXTURES WILL HAVE UNINTERRUPTED TRANSITION FROM NORMAL SOURCE TO EMERGENCY SOURCE, SUCH AS A LIGHTING INVERTER.

STEP 3: DOES LUTRON NEED TO PROVIDE OVERRIDE & LOCKOUT INTEGRATION BEYOND EMERGENCY LIGHTING, SUCH AS FIRE ALARM CONTROL PANEL INTEGRATION, SECURITY ALARM INTEGRATION, ETC.?

- ☐ YES [PROCEED TO STEP 4]
- ☐ NO [PROCEED TO STEP 7]

STEP 4: LUTRON LIGHTING CONTROL SYSTEM SHALL INTEGRATE WITH THE FOLLOWING SYSTEMS (CHECK ALL THAT APPLY):

- ☐ FIRE ALARM CONTROL PANEL (FACP) INTEGRATION
- ☐ SECURITY SYSTEM ALARM INTEGRATION
- ☐ OTHER, PLEASE DEFINE:
- ☐ OTHER, PLEASE DEFINE:
- ☐ OTHER, PLEASE DEFINE:

STEP 5: THE FOLLOWING LIGHTING SHALL RESPOND TO THE OVERRIDE & LOCKOUT INTEGRATION REQUEST:

- ☐ EMERGENCY LIGHTING
- ☐ NON-EMERGENCY (NORMAL) LIGHTING

STEP 6: PLEASE SELECT DEFAULT OR CUSTOM SEQUENCE OF OPERATIONS.

- ☐ [DEFAULT] BOTH EMERGENCY LIGHTING AND OVERRIDE & LOCKOUT INTEGRATIONS SHALL RESPOND WITH 100% LIGHTING OUTPUT.
- ☐ [CUSTOM] PLEASE CHECK THE BOX FOR STEP 7 AND PROVIDE APPROPRIATE DETAILS.

STEP 7:

- ☐ THE ABOVE TEMPLATE DOES NOT ADDRESS THE REQUIREMENTS OF THE PROJECT. PLEASE SEE DOCUMENT REFERENCE BELOW FOR DETAILS ON PROJECT REQUIREMENTS: EMERGENCY AND OVERRIDE & LOCKOUT DETAILS CAN BE FOUND HERE:

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

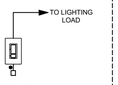
DRAWING TITLE:
ELECTRICAL LIGHTING CONTROLS WIRING DIAGRAM - SHEET 1

SEAL & SIGNATURE



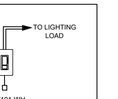
DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	VS
CHECKED BY:	JK
DRAWING NUMBER:	**E-600.00**
CAD FILE No:	

AS REQUIRED PER ZONE
FOR CONTROL OF NON-DIM LOADS



MS-OPS6M2-DV-WH
OCCUPANCY/VACANCY SENSOR
SINGLE POLE/MULTI-LOCATION
120/277 V MAESTRO SENSOR
*NO NEUTRAL WIRE REQUIRED
AUTO ON/AUTO OFF OR
MANUAL ON/AUTO OFF
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

AS REQUIRED PER ZONE
FOR CONTROL OF NON-DIM LOADS



MS-VPS6M2-DV-WH
VACANCY SENSOR
SINGLE POLE/MULTI-LOCATION
120/277 V MAESTRO SENSOR
*NO NEUTRAL WIRE REQUIRED
MANUAL ON/AUTO OFF OR
(1 GANG US BACKBOX BY OTHERS)

LOCATION TBD

AS REQUIRED PER ZONE
FOR CONTROL OF 0-10V LOADS

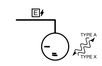
MS-Z1O1-WH
OCCUPANCY/VACANCY SENSOR
SINGLE POLE/MULTI-LOCATION
0-10V 8A MAESTRO DIMMER
AUTO ON/AUTO OFF OR
MANUAL ON/AUTO OFF
(1 GANG US BACKBOX BY OTHERS)

LOCATION TBD

STANDALONE WALLBOX

OPTIONAL SYSTEM DESIGN - FOR TOTAL INSTALLATION SAVINGS AND LUTRON DIMMING PANEL REDUCTION TO BE COORDINATED AT THE REQUEST OF THE ELECTRICAL CONTRACTOR

NOT PART OF BASE SCOPE



A-RF2
ATHENA WIRELESS PROCESSOR
REQUIRES POWER OVER ETHERNET (POE)
POE SUPPLY SOLD SEPARATELY
SEE SPEC SHEET FOR RANGE LIMITATIONS &
AVAILABLE MOUNTING CONDITIONS
DIMENSIONS: 4.04"(DIA) X 1.17"(D)
[102.67mm X 29.82mm]
LOCATION TBD

TYPICAL OF FIXTURES WITH ATHENA WIRELESS NODE

EQUIPMENT PROVIDED BY OEM

A-WN-D01-RF-XX
ATHENA WIRELESS NODE (RF ONLY)
1.12"(DIA) X 1.20"(D)
(28.5mm X 31.2mm)
*DEVICE MOUNTED ON FIXTURE
LOCATION TBD

APPLICATION	STATIC WHITE	TUNABLE WHITE
COMPATIBLE DRIVERS	DALI-2 CERTIFIED LED DRIVERS ANSI C137.1 COMPLIANT 0-10V LED DRIVERS	DALI-2 CERTIFIED TYPE 8 LED DRIVERS
POWER SUPPLY	(LUTRON RECOMMENDS DPC-DE4A-DB BY LUTRON)	
EMERGENCY DEVICE*	IN-FIXTURE EMERGENCY RELAY DEVICE (LUTRON RECOMMENDS LUT-SHUNT-FM BY LVS CONTROLS)	

1 - REQUIRED IF DRIVER DOES NOT INCLUDE INTEGRATED POWER SUPPLY
2 - REFER TO LUTRON APPLICATION NOTE #196 (P/N 048196) FOR MORE INFORMATION

EMERGENCY SPECIFICATION TEMPLATE

ELECTRICAL ENGINEER TO DETERMINE EMERGENCY LIGHTING REQUIREMENTS BELOW.

NOTE: CHECK ALL APPLICABLE OPTIONS.

STEP 1: PLEASE CHECK ONE.

- ☐ LUTRON TO PROVIDE EMERGENCY LIGHTING EQUIPMENT. [PROCEED TO STEP 2]
- ☐ EMERGENCY LIGHTING PER OTHERS (LUTRON SHALL NOT PROVIDE EMERGENCY LIGHTING EQUIPMENT). [DO NOT PROCEED IF SELECTED]
  - ○ EMERGENCY LIGHTING FROM BATTERY PACKS SUPPLIED WITH FIXTURES.
  - ○ CONTRACTOR TO PROVIDE UL924 LISTED EM TRANSFER RELAYS - FOR BEST PERFORMANCE, "LUT-" EM RELAYS BY LVS CONTROLS
  - ○ EMERGENCY LIGHTING FIXTURES NOT CONNECTED TO LUTRON SYSTEM

STEP 2: PLEASE CONFIRM EMERGENCY POWER SOURCE DETAILS. CHECK ALL THAT APPLY.

- ☐ EMERGENCY LIGHTING FIXTURES WILL HAVE POWER INTERRUPTED DURING TRANSFER FROM NORMAL SOURCE TO EMERGENCY SOURCE, SUCH AS GENERATOR.
  - ○ LUTRON TO SPECIFY (NOT PROVIDE) EMERGENCY INVERTER FOR SYSTEM PROCESSOR/HUB.
- ☐ EMERGENCY LIGHTING FIXTURES WILL HAVE UNINTERRUPTED TRANSITION FROM NORMAL SOURCE TO EMERGENCY SOURCE, SUCH AS A LIGHTING INVERTER.

STEP 3: DOES LUTRON NEED TO PROVIDE OVERRIDE & LOCKOUT INTEGRATION BEYOND EMERGENCY LIGHTING, SUCH AS FIRE ALARM CONTROL PANEL INTEGRATION, SECURITY ALARM INTEGRATION, ETC.?

- ☐ YES [PROCEED TO STEP 4]
- ☐ NO [PROCEED TO STEP 7]

STEP 4: LUTRON LIGHTING CONTROL SYSTEM SHALL INTEGRATE WITH THE FOLLOWING SYSTEMS (CHECK ALL THAT APPLY):

- ☐ FIRE ALARM CONTROL PANEL (FACP) INTEGRATION
- ☐ SECURITY SYSTEM ALARM INTEGRATION
- ☐ OTHER; PLEASE DEFINE:
- ☐ OTHER; PLEASE DEFINE:
- ☐ OTHER; PLEASE DEFINE:

STEP 5: THE FOLLOWING LIGHTING SHALL RESPOND TO THE OVERRIDE & LOCKOUT INTEGRATION REQUEST:

- ☐ EMERGENCY LIGHTING
- ☐ NON-EMERGENCY (NORMAL) LIGHTING

STEP 6: PLEASE SELECT DEFAULT OR CUSTOM SEQUENCE OF OPERATIONS.

- ☐ [DEFAULT] BOTH EMERGENCY LIGHTING AND OVERRIDE & LOCKOUT INTEGRATIONS SHALL RESPOND WITH 100% LIGHTING OUTPUT.
- ☐ [CUSTOM] PLEASE CHECK THE BOX FOR STEP 7 AND PROVIDE APPROPRIATE DETAILS.

STEP 7:

- ☐ THE ABOVE TEMPLATE DOES NOT ADDRESS THE REQUIREMENTS OF THE PROJECT. PLEASE SEE DOCUMENT REFERENCE BELOW FOR DETAILS ON PROJECT REQUIREMENTS:
  EMERGENCY AND OVERRIDE & LOCKOUT DETAILS CAN BE FOUND HERE:

WIRING LEGEND:

△Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
▲Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH
(REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES):

TOTAL CONTROL LINK LENGTH	WIRE GAUGE	AVAILABLE FROM LUTRON IN ONE CABLE:
LESS THAN 500ft (152.4 m)	POWER (TERMINALS 1&2): 1 PAIR 18 AWG (1.0 mm²)	GRX-CBL-346S (NON-PLENUM) OR GRX-PCBL-346S (PLENUM)
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	
500ft (152.4 m) TO 2,000ft (610 m)**	POWER (TERMINALS 1&2): 1 PAIR 12 AWG (4.0 mm²)	GRX-CBL-46L (NON-PLENUM) OR GRX-PCBL-46L (PLENUM)
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9461).

**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).

- ◪ INPUT POWER (NORMAL-EMERGENCY)
- □ INPUT POWER (NORMAL)
- ● 2 #12AWG (4 mm²)
- ○ 3 #12AWG (4 mm²)
- ◆ 0-10V SIGNAL: 2 #18AWG (1.0 mm²)
- CONTACT CLOSURE SIGNAL: 2 #18AWG (1.0 mm²)
- ∞ CONTACT CLOSURE SIGNAL: 3 #18AWG (1.0 mm²)
- CLEAR CONNECT - TYPE A WIRELESS SIGNAL
- CLEAR CONNECT - TYPE A 2-WAY WIRELESS SIGNAL
- CLEAR CONNECT - TYPE X WIRELESS SIGNAL (TYPE X)
- LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 3 #22 AWG (1.0 mm²)
- LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 4 #22 AWG (1.0 mm²)
- E -- TEMPORARY ETHERNET CONNECTION -- CAT5E OR BETTER CABLE FOR LUTRON NETWORK. TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN.
- E CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN.
- E POWER OVER ETHERNET (POE) ETHERNET LINK. CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN

WIRING NOTES:

ATHENA QS LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE IN WIRING LEGEND FOR WIRE RUN LIMITS.
- IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED; SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET.
- FOR 2-LINK EDGE PROCESSORS (QPS-2L-POE & QPS-4L-POE) PER LINK LIMITS ARE;
  - •• MAXIMUM OF 312 SWITCHLEGS (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
  - •• MAXIMUM OF 100 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS, AND 100 KEYPADS.
  - •• MAXIMUM OF 100 QS DEVICES (SUCH AS A SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-10PNL], ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
  - •• MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT.
  - •• THE 10 OUTPUTS ON A QSPS-10PNL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).
- FOR 1-LINK EDGE PROCESSORS (QPS-1L-POE & QP6-1L) PER LINK LIMITS ARE;
  - •• MAXIMUM OF 256 SWITCHLEGS (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
  - •• MAXIMUM OF 50 OCCUPANCY SENSORS, 50 DAYLIGHT SENSORS, & 50 WALL CONTROLS.
  - •• MAXIMUM OF 25 QS DEVICES (SUCH AS A SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-10PNL], ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
  - •• MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT.
  - •• MAXIMUM OF 8 DMX INTERFACES (QSE-CI-DMX).
  - •• THE 10 OUTPUTS ON A QSPS-10PNL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).
- ATHENA WIRELESS PROCESSOR (A-RF2):
  - •• CLEAR CONNECT - TYPE A DEVICE LIMITS:
    - ••• MAXIMUM DISTANCE OF 30 FT (9M) THROUGH WALLS OR 60 FT (18M) LINE-OF-SIGHT
    - ••• MAXIMUM OF 50 TOTAL CLEAR CONNECT - TYPE A DEVICES PER PROCESSOR
      - •••• MAXIMUM OF 5 DAYLIGHT SENSORS PER PROCESSOR
      - •••• MAXIMUM OF 15 OCCUPANCY / VACANCY SENSORS PER PROCESSOR
      - •••• MAXIMUM OF 50 PICO WIRELESS KEYPADS
  - •• CLEAR CONNECT - TYPE X DEVICE LIMITS:
    - ••• REFER TO CLEAR CONNECT TYPE X - GENERAL NOTES BELOW

ATHENA SYSTEM ETHERNET LINK

CAT5e OR BETTER ETHERNET CABLE TO BE RUN FOR SYSTEM ETHERNET LINK, TERMINATED WITH RJ45 CONNECTORS. SYSETM ETHERNET LINK WIRING USES A STANDARD ETHERNET CONNECTION. ALL WIRING MUST COMPLY WITH IEEE 802.3 STANDARDS. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT. THIS APPLIES FOR INTERPROCESSOR COMMUNICATION AND COMMUNICATION LINES TO LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS. USE LUTRON'S Q-POE-PNL OR UNMANAGED ETHERNET SWITCHES FOR LONGER DISTANCES. LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS MUST BE CONNECTED TO A POE CAPABLE SWITCH THAT MEETS IEEE 802.3af-2003 OR 802.3at-2009 REQUIREMENTS.

PROCESSORS CANNOT BE DAISY CHAINED. DO NOT DAISY CHAIN PROCESSORS USING THE SECOND ETHERNET PORT. THE SECOND ETHERNET CONNECTION IS USED FOR SERVICE DIAGNOSTICS ONLY. EACH PROCESSOR MUST BE CONNECTED TO AN ETHERNET SWITCH.

MAXIMUM OF (16) ATHENA EDGE PROCESSORS & CLEAR CONNECT - TYPE X GATEWAYS MAY BE CONNECTED AS A SINGLE ATHENA SYSTEM.

CONCEPT DRAWING NOTES:
CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATIONS AND QUANTITIES, SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LEDS OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

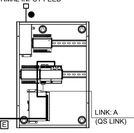
TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

100-277V~ DEDICATED
NORMAL INPUT FEED



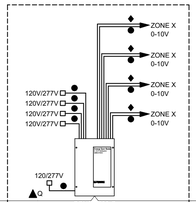
LINK: A
(QS LINK)

TO SYSTEM ETHERNET LINK E

QPS-1L-POE
ATHENA LIGHT MANAGEMENT HUB
CONTAINING (1) ATHENA EDGE PROCESSOR
WITH (1) QS LINK &
(1) 8-PORT UNMANAGED POE SWITCH
ENCLOSURE DIMENSIONS WITH COVER:
21.50"(H) X 15.39"(W) X 4.14"(D)
(546mm X 291mm X 105mm)
LOCATION TBD

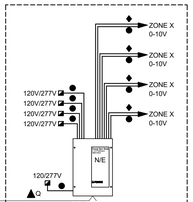
TO BASEMENT
ATHENA PROCESSOR

MINIMUM OF (1) REQUIRED
FOR CONTROL OF UP TO (4) NORMAL
0-10V OR NON-DIM ZONES
E.C. TO DETERMINE TOTAL QTY



QSN2-4T20-S
20A ENERGI SAVR NODE QS (ESN)
RATED TO SWITCH 20A RECEPTACLES
WITH (4) SWITCHED OUTPUTS,
(4) 0-10V CHANNELS, AND
(1) QS COMMUNICATIONS LINK
DIMENSIONS:
13.25"(H) X 9.25"(W) X 3.16"(D)
[336.7mm X 235mm X 80.3mm]
LOCATION TBD

MINIMUM OF (1) REQUIRED
FOR CONTROL OF UP TO (4) NORMAL/EMERGENCY
0-10V OR NON-DIM ZONES
E.C. TO DETERMINE TOTAL QTY



QSN2-4T20-S
20A ENERGI SAVR NODE QS (ESN)
RATED TO SWITCH 20A RECEPTACLES
WITH (4) SWITCHED OUTPUTS,
(4) 0-10V CHANNELS, AND
(1) QS COMMUNICATIONS LINK
DIMENSIONS:
13.25"(H) X 9.25"(W) X 3.16"(D)
[336.7mm X 235mm X 80.3mm]
LOCATION TBD

TYPICAL KEYPAD - AS REQUIRED
*OTHER BUTTON CONFIGURATIONS AVAILABLE

QSWS2-5BRLN-WH
5-BUTTON SCENE
SELECT WITH RAISE/LOWER
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

AS REQUIRED
QTY & LOCATIONS TBD BASED ON
QTY & LOCATIONS OF SENSORS/DEVICES



QSM2-4W-C
QS SENSOR MODULE (QSM)
WITH (4) UNIVERSAL WIRED INPUTS
AND 434MHZ WIRELESS RECEIVER
60'[18.29m] RADIUS RF COVERAGE
(30'[9.14m] THROUGH WALLS)
4.04"[102.6mm] (DIA) X 1.17"[29.7mm] (D)
LOCATION TBD

AS REQUIRED
MAX OF 4 WIRED INPUTS PER QSM

LOS-xxx-WH
WALL MOUNT
OCCUPANCY SENSOR
(1 GANG US BACKBOX BY OTHERS)
LOCATION TBD

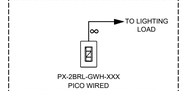
AS REQUIRED
MAX OF 4 WIRED INPUTS PER QSM

LOS-xxx-xxx-WH
CEILING MOUNT
OCCUPANCY SENSOR
4.5"[114mm] (DIA) X 1.4"[35.6mm] (D)
LOCATION TBD

AS REQUIRED
MAX OF 4 WIRED INPUTS PER QSM

EC-DIR-WH
FIXTURE MOUNTABLE DAYLIGHT
SENSOR W/ IR RECEIVER
(1 MAX PER BALLAST/MODULE)
1.18"[30mm] DIA.
LOCATION TBD

AS REQUIRED



PX-2BRL-GWH-XXX
PICO WIRED
2 BUTTON CONTROL WITH RAISE/LOWER
SHOWN WITH CW-1-WH
CLARO WALLPLATE
*SEE SPECIFICATION SHEET FOR
DIMENSIONS, ENGRAVING OPTIONS,
& MOUNTING INSTRUCTIONS
LOCATION TBD

ATHENA CONCEPT - MEZZANINE

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
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MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

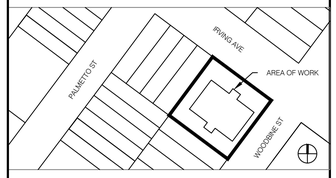
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LANDSCAPE ARCHITECT:
NV5 NEW YORK
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

NYC DDC Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
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PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
ELECTRICAL LIGHTING CONTROLS WIRING DIAGRAM - SHEET 2

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	VS
CHECKED BY:	JK
DRAWING NUMBER:	**E-601.00**
CAD FILE No:	

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	VENT THROUGH ROOF (VTR)
CO	CLEANOUT (CO)
CODP	CLEANOUT DECK PLATE (CODP)
	HOUSE TRAP
	HOSE BIBB WITH VACUUM BREAKER
	WALL SLEEVE
	SOLENOID VALVE
	MASTER MIXING VALVE
	OS&Y VALVE WITH TAMPER SWITCH
	TEMPERATURE & PRESSURE RELIEF VALVE
	THERMOMETER
	PRESSURE GAUGE (PG)
	WATER HAMMER ARRESTOR
	TRAP
	STRAINER
	PIPE CAP OR PLUG
	PIPE CONTINUES
	ELBOW UP
	ELBOW DOWN
	TOP TAKE-OFF
	BOTTOM TAKE-OFF
TMV	THERMOSTATIC MIXING VALVE
BFP	BACKFLOW PREVENTER
RPZ	REDUCED PRESSURE ZONE
	BALANCING VALVE

NOTE: THE KEY OF SYMBOLS AND ABBREVIATIONS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

PLUMBING SYMBOLS CONT.

SYMBOL	DESCRIPTION
VB	VACUUM BREAKER
	CIRCULATING PUMP
FS FS	FLOOR SINK
FD (RD) FD (SHD)	FLOOR DRAIN (SHOWER DRAIN, ROOF DRAIN)
	CONNECT NEW TO EXISTING
	POINT OF DISCONNECTION
PS	PRESSURE SWITCH
F FS	FLOW SWITCH
	GATE VALVE
	GLOBE VALVE
	HOSE END DRAIN VALVE
	PLUG VALVE
	BALL VALVE - PLAIN
	BUTTERFLY VALVE
	NEEDLE VALVE
	SWING GATE CHECK VALVE
	PRESSURE REGULATING VALVE
	FLOW CONTROL VALVE / GRISWOLD VALVE
	FLOW CONTROL VALVE / GRISWOLD VALVE
	HOSE GLOBE VALVE
	SHUT-OFF AND BALANCING VALVE
	DRAIN VALVE
M	MOTOR OPERATED GATE VALVE
	UNION
M	WATER METER

NOTE: THE KEY OF SYMBOLS AND ABBREVIATIONS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	SANITARY OR WASTE (S) (ABOVE GROUND)
	SANITARY OR WASTE (S) (UNDERGROUND)
	VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER CIRCULATION (HWR)
G	NATURAL GAS
OST	OVERFLOW STORM (ABOVE GROUND)
OST	OVERFLOW STORM (BELOW GROUND)
ST	STORM (ABOVE GROUND)
ST	STORM (UNDERGROUND)
	EXISTING SANITARY OR WASTE (S) (ABOVE GROUND)
	EXISTING SANITARY OR WASTE (S) (UNDERGROUND)
	EXISTING VENT PIPING (V)
	EXISTING COLD WATER PIPING (CW)
	EXISTING HOT WATER PIPING (HW)
	EXISTING HOT WATER RETURN PIPING (HWR)
G	EXISTING NATURAL GAS
OST	EXISTING OVERFLOW STORM (ABOVE GROUND)
OST	EXISTING OVERFLOW STORM (BELOW GROUND)
ST	EXISTING STORM (ABOVE GROUND)
ST	EXISTING STORM (BELOW GROUND)
	DEMOLITION PIPING

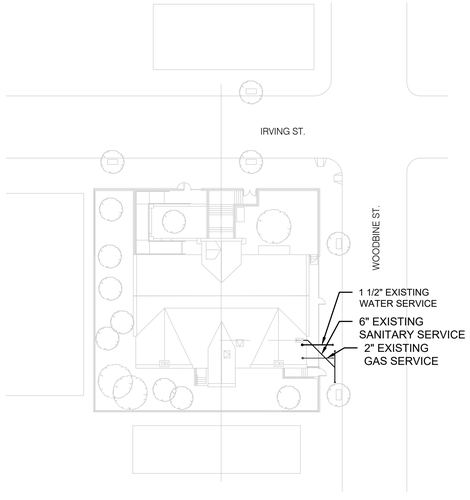
PLUMBING DRAWING LIST

P-001	PLUMBING GENERAL NOTES, SYMBOLS, ABBREVIATIONS
P-002	PLUMBING NOTES
PD-101	PLUMBING BASEMENT DEMOLITION PLAN
PD-102	PLUMBING FIRST FLOOR DEMOLITION PLAN
P-101	PLUMBING PROPOSED BASEMENT PLAN
P-102	PLUMBING PROPOSED FIRST FLOOR PLAN
P-103	PLUMBING PROPOSED ROOF PLAN
P-500	PLUMBING DETAILS
P-600	PLUMBING SCHEDULES
P-700	PLUMBING RISER DIAGRAMS
P-701	PLUMBING RISER DIAGRAMS

TOTAL: 11

PLUMBING ABBREVIATIONS

AD	AREA DRAIN	HWR	HOT WATER RETURN
BFP	BACKFLOW PREVENTER	LAV	LAVATORY
BV	BALL VALVE	MB	MANUFACTURED BY
℄	CENTER LINE	MICV	METER INLET CONTROL VALVE
CHV	CHECK VALVE	MOCV	METER OUTLET CONTROL VALVE
CO	CLEANOUT	NFWH	NON FREEZE WALL HYDRANT
CODP	CLEANOUT DECK PLATE	NTS	NOT TO SCALE
CONT.	CONTINUATION	PD	PUMP DISCHARGE
CW	COLD WATER	RD	ROOF DRAIN
DCW	DOMESTIC COLD WATER	S	SANITARY
DR	DRAIN	SA	SHOCK ABSORBER
DWG	DRAWING	SD	SUMP DISCHARGE
DF	DRINKING FOUNTAIN	SHD	SHOWER DRAIN
DWH	DOMESTIC WATER HEATER	SK	PANTRY SINK
(E), EX.	EXISTING	SP	SPRINKLER STANDPIPE
IE.	INVERT ELEVATION	SPEC	SPECIFICATIONS
F	FIRE LINE	SQ. FT.	SQUARE FOOT, FEET
FA	FIRE ALARM	SS	SERVICE SINK
FAI	FRESH AIR INLET	ST	STORM
FD	FLOOR DRAIN	TP	TRAP PRIMER
FFD	FUNNEL FLOOR DRAIN	TYP.	TYPICAL
FP	FIRE PROTECTION	V	VENT
G	NATURAL GAS	VTR	VENT THRU ROOF
HB	HOSE BIBB	W	WASTE
HCV	HOSE CONTROL VALVE	WC	WATER CLOSET
HTR	HEATER	WHA	WATER HAMMER ARRESTOR
HW	HOT WATER		



01 SITE PLAN
SCALE: 1/32"=1'-0"

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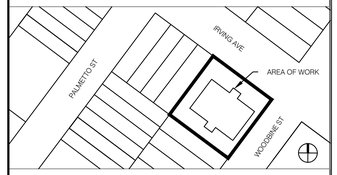
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Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
PLUMBING GENERAL NOTES. SYMBOLS, ABBREVIATIONS

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	TL
CHECKED BY:	GM/AA
DRAWING NUMBER:	**P-001.00**
CADO FILE No:	
	01 OF 11

GENERAL NOTES:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL, EQUIPMENT, ETC., AND PERFORM ALL OPERATIONS FOR THE WORK DELINEATED IN THE CONTRACT DRAWINGS FOR THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM. THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH NEW YORK CITY PLUMBING CODE AND AUTHORITIES HAVING JURISDICTION.
2. THE PLUMBING CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF PLUMBING SYSTEMS AND SHALL HAVE HAD A MINIMUM OF FIVE YEARS EXPERIENCE IN THE INSTALLATION OF LOCAL PLUMBING SYSTEMS.
3. THE DRAWINGS ARE NOT TO BE SCALED. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. EXACT LOCATION SHALL BE COORDINATED WITH ALL TRADES, ARCHITECTURAL DRAWINGS, GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE. PIPING AND EQUIPMENT EXACT LOCATIONS ARE TO BE DETERMINED UTILIZING ARCHITECTS DIMENSIONED DRAWINGS AS A BASE POINT AND BY VISITING EXISTING BUILDING.
4. THE PLUMBING CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO EXISTING PIPING TO SUIT NEW PLUMBING FIXTURES AND EQUIPMENT.
5. UPON REVIEW OF PLUMBING DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING HIS PROPOSAL, THE PLUMBING CONTRACTOR SHALL INFORM ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES OR REQUEST CLARIFICATION IN WRITING, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE PLUMBING INSTALLATION. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
6. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL CONDITIONS AND SHALL CALL SAME TO THE ATTENTION TO THE ARCHITECT/ENGINEER AND CONSTRUCTION MANAGER IF THEY VARY FROM THE LOCATIONS INDICATED IN THE DRAWINGS.
7. THE PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID ANY MODIFICATION REQUIRED TO ALL PLUMBING PIPING AND ACCESSORIES FOR RELOCATION, REPLACEMENT OR REMOVALS OF ANY FIXTURES OR EQUIPMENT.
8. BEFORE SUBMITTING HIS BID, THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND SHALL FULLY FAMILIARIZE HIMSELF WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
9. THE SCHEDULING OF THE PLUMBING WORK SHALL BE COORDINATED WITH BUILDING MANAGEMENT, WITH OTHER CONTRACTORS AND WITH THE CLIENT.
10. NECESSARY SHUT-DOWNS OF BASE BUILDING PLUMBING SYSTEMS MUST BE COORDINATED WITH BUILDING MANAGEMENT. THE CONTRACTOR MUST GIVE BUILDING MANAGEMENT 48 HOURS NOTICE PRIOR TO SHUT-DOWN OF PLUMBING SYSTEMS.
11. ALL PIPING SHALL RUN CONCEALED WITHIN PARTITIONS OR SUSPENDED CEILINGS WHERE THEY OCCUR OR AS NOTED.
12. EXISTING ABANDONED PIPING WITHIN PARTITIONS TO BE DEMOLISHED OR EXPOSED SHALL BE REMOVED BACK TO ACTIVE MAINS OR REROUTED AS REQUIRED.
13. EXISTING UTILITIES TO BE UTILIZED SHALL BE TESTED AND FLUSHED CLEAN.
14. SNAKE ALL SANITARY LINES FOR A DISTANCE OF 100' MINIMUM AND REPORT ANY BLOCKAGE.
15. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, ROUGH PATCHING, FLASHING AND REPAIRING CONDITIONS AFFECTED BY NEW CONSTRUCTION. FINISH PATCHING SHALL BE PERFORMED BY ANOTHER SECTION. ALL FLOORS PENETRATIONS SHALL BE DONE BY CORE DRILLING. NO JACK HAMMERS ARE PERMITTED.
16. WORK SHALL INCLUDE ALL PLUMBING WORK FURNISHED AND INSTALLED AS INDICATED ON THE PLANS AND SPECIFICATIONS.
17. THE PLUMBING CONTRACTOR SHALL PAY ALL CHARGES AND FEES FOR ALL PERMITS AND FILING ALL REQUIRED DRAWINGS AND SPECIFICATIONS WITH ALL REQUIRED AGENCIES AND DEPARTMENTS INCLUDING, BUT NOT LIMITED TO THE LOCAL DEPARTMENT OF BUILDINGS. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL.
18. THE PLUMBING SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL BUILDING CODE. THE PLUMBING CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY AND ALL PARTS OF THE WORK AS REQUIRED BY AUTHORITIES HAVING JURISDICTION AND PAY ALL CHARGES FOR SAME.
19. CONTRACTOR TO VERIFY THE EXISTING SITE AND UTILITY CONDITIONS BEFORE CONSTRUCTION.
20. PRIOR TO STARTING CONSTRUCTION DETERMINE EXACT INVERT ELEVATION, SIZE, DEPTH AND LOCATION OF EXISTING CONDITIONS.

PLUMBING GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.
2. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
3. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
4. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
5. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
6. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND CONNECTED.
7. THE CONTRACTOR SHALL NOTIFY BUILDING MANAGEMENT AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
8. ALL EXISTING MATERIAL AND EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION. ALL MATERIALS AND EQUIPMENT REMOVED AS A RESULT OF DEMOLITION SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
9. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED,TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
10. THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH BUILDING MANAGEMENT AND CONSTRUCTION MANAGER.
11. ALL PIPING TO BE REMOVED SHALL BE PROPERLY PLUGGED OR CAPPED SO UPON COMPLETION OF ALL NEW WORK, ALL ABANDONED PIPING SHALL BE CONCEALED IN FINISHED AREAS.
12. NO DEAD ENDS (AS DEFINED BY NYC CODE) SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF THE PROJECT.
13. EXISTING EXPOSED PIPING NOT TO BE REUSED AND NOT SPECIFICALLY NOTED OR SHOWN ON DRAWINGS TO BE ABANDONED SHALL BE COMPLETELY REMOVED.
14. UNDER NO CIRCUMSTANCES SHALL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE COMMISSIONER FOR SUCH PURPOSE.
15. ANY AND ALL REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING SUSPENDED CEILINGS AND FURRED OUT WALLS SHALL BE DONE AT THE TIME WHEN THE EXISTING CEILINGS AND FURRED OUT WALLS ARE REMOVED BY THE GENERAL CONTRACTOR.
16. CONTRACTOR SHALL COORDINATE EXACT REMOVAL EXTENTS WITH PROPOSED DRAWINGS, SITE-CIVIL WORK AND LOCAL UTILITY COMPANIES.

NYC BUILDING DEPARTMENT PLUMBING NOTES:

ALL PLUMBING WORK SHALL MEET THE REQUIREMENTS OF THE 2022 NEW YORK CITY PLUMBING CODE.

1. PROTECTION OF PIPING AS OUTLINED IN SECTION PC 305 SHALL BE PROVIDED AS REQUIRED.
2. ALL PIPING AND MATERIALS SHALL BE AS DIRECTED IN SECTIONS PC 303 & PC 702.
3. PIPING JOINTS AND CONNECTIONS SHALL BE AS APPROVED IN SECTIONS PC 605 & PC 705.
4. CONSTRUCTION, QUANTITIES, DEVICES, FIXTURES, FAUCETS, VALVES AND FACILITIES FOR THE DISABLED SHALL BE AS OUTLINED IN CHAPTER 4.
5. TRAPS SHALL BE AS PER SECTION PC 1002.
6. CONSTRUCTION AND SPACING OF HANGERS AND SUPPORTS SHALL BE AS DIRECTED IN SECTION PC 308.
7. WATER SUPPLY SYSTEM, VALVES, TESTS SHALL BE AS DIRECTED IN CHAPTER 6. VALVES SHALL BE PROVIDED AT RISERS AND ELSEWHERE AS PER SECTION PC 606.
8. SANITARY DRAINAGE PIPING, SIZING, GRADING AND OFFSETS SHALL BE AS OUTLINED IN CHAPTER 7.
9. VENT SIZING, GRADING, CONNECTIONS, LOCATIONS AND OFFSETS SHALL BE AS DIRECTED IN CHAPTER 9.
10. STORM DRAINAGE PIPING AND SIZING SHALL BE IN ACCORDANCE WITH CHAPTER 11. STORM WATER MANAGEMENT UTILIZING CONTROLLED FLOW DRAINAGE SHALL BE AS PER CHAPTER 11.
11. INDIRECT AND SPECIAL WASTE PIPING SHALL BE AS DIRECTED IN CHAPTER 8.
12. ALL PLUMBING FIXTURES SHALL BE AS DIRECTED IN CHAPTER 4.
13. ALL PLUMBING DRAINAGE PIPING, INCLUDING ANY EQUIPMENT CONNECTED THERETO SHALL BE SEISMICALLY RESTRAINED AS PER BC 1621 AND ASCE 7.
14. CLEAN OUTS FOR SANITARY AND STORM DRAINAGE SHALL BE AS PER SECTION PC 708.
15. ALL PLUMBING WORK SHALL BE DONE BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER AS PER SECTION 28-408 OF THE 2022 NYC BUILDING CODE.
16. ALTERED WATER SYSTEMS SHALL BE DISINFECTED AS PER PC 610.1.

2020 NYC ENERGY CODE PROGRESS INSPECTIONS

REQUIRED INSPECTIONS AND TESTS OF MATERIALS DESIGNATED FOR "ENERGY CODE PROGRESS INSPECTIONS" BY THE CONTRACTOR SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER RETAINED BY OR ON THE BEHALF OF THE OWNER WHO SHALL BE ACCEPTABLE TO THE ARCHITECT OR ENGINEER WHO SUPERVISED THE PREPARATION OF THE PLANS. CONTRACTOR SHALL VERIFY WITH OWNER THE EXTENT OF THE INSPECTIONS TO BE PROVIDED BY THE LICENSED ARCHITECT OR ENGINEER.

THE CONTRACTOR MUST NOTIFY THE ARCHITECT OR ENGINEER FOR SPECIAL INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES FOR THOSE REQUIRED TO BE PERFORMED BY ARCHITECT OR ENGINEER OF RECORD.

SPECIAL INSPECTIONS SHALL BE PERFORMED BY AGENCIES REGISTERED, CERTIFIED, AND/OR ACCREDITED BY NYC.

PROGRESS INSPECTION(S) - COMMERCIAL BUILDINGS	TABLE REFERENCE 1RCNY §5000-01(h) (2)	REQUIRED INSPECTION
WATER HEATING INSPECTIONS	IIB	
SERVICE WATER HEATING EQUIPMENT	(IIB3)	●
WATER HEATING SYSTEM CONTROLS	(IIB4)	●
WATER PIPING DESIGN AND INSULATION	(IIB5)	●

EQUIPMENT, PIPE & CONDUIT HANGERS & SUPPORTS NOTES:

1. THE DESIGN OF ALL SUSPENDED EQUIPMENT, PIPE HANGERS, CONDUIT SUPPORTS, DUCTWORK SUPPORT, SUPPLEMENTARY STRUCTURAL FRAMING AND THE LIKE SHALL BE THE RESPONSIBILITY OF EACH TRADE CONTRACTOR. THIS SHALL INCLUDE DESIGN OF SUPPORTS FOR BOTH GRAVITY AND SEISMIC LOADING AS REQUIRED BY THE NEW YORK CITY BUILDING CODE. EACH TRADE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK TO PREPARE SIGNED AND SEALED SUPPORTING CALCULATIONS FOR SUBMISSION THAT FULLY DEFINE EQUIPMENT AND PIPE SUPPORTS. SHOP DRAWINGS (PLANS AND DETAILS) INDICATING STRUCTURAL SUPPORTS SHALL BE SIGNED AND SEALED BY THE SAME NEW YORK PE PREPARING CALCULATIONS.

PIPE MATERIALS

APPLICATION	MATERIALS	
	PIPE	JOINTS
SANITARY DRAINAGE, VENT AND STORM	HUBLESS CAST-IRON SOIL PIPE CISPI 301 OR ASTM-A888	304 S/S HEAVY-DUTY GASKETED COUPLINGS
DOMESTIC WATER, NPS 2" AND SMALLER	HARD COPPER TUBE, ASTM-B-88, TYPE-L	CAST-COPPER FITTINGS AND SOLDER JOINTS OR COPPER PRESS FITTINGS

NOTES:
1. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.
2. CAST BRONZE OR WROUGHT COPPER FITTINGS CONFORMING TO ASTM-B 16.18, CAST COPPER-ALLOY OR ASTM-B 16.22, WROUGHT-COPPER. COPPER PRESS FITTINGS CONFORMING TO ASME B16.51, IAPMO PS-117.
3. ALL SOLDER SHALL BE 95/5 LEAD FREE.

PIPE INSULATION THICKNESS

APPLICATION	PIPE DIAMETER	
	LESS THAN 1.5"	GREATER THAN 1.5"
HOT WATER (105 F - 140 F)	1.5"	2"
COLD WATER	1.5"	1.5"

NOTE: INSULATION THERMAL CONDUCTIVITY RANGE OF 0.21 - 0.28 BTU-IN/(H-FT²-F).

FEMA NOTE:

THIS STRUCTURE IS NOT LOCATED IN THE SPECIAL FLOOD HAZARD AREA.

NYC PLUMBING SPECIAL INSPECTIONS ITEMS

THE FOLLOWING ITEMS ARE DESIGNATED FOR SPECIAL MECHANICAL INSPECTIONS IN ACCORDANCE WITH 2022 NYC BUILDING CODE SECTION 1704, 1705 AS REGULATED UNDER 1 RCNY§101-06, AND 1 RCNY§5000-01

SPECIAL INSPECTIONS	CODE REFERENCE	REQUIRED INSPECTION
FIRE RESISTANT PENETRATIONS AND JOINTS	BC 1705.17	●
POST-INSTALLED ANCHORS	BC 1705.37	
ENERGY CODE COMPLIANCE	BC 110.3.5	●
FINAL	BC 110.5, DIRECTIVE 14-1975	●

PLUMBING SCOPE OF WORK:

WORK UNDER THIS SECTION INCLUDES THE FURNISHING OF ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY FOR THE COMPLETE EXECUTION OF ALL PLUMBING WORK AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED. INSTALLATION SHALL BE IN CONFORMITY WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION: INCLUDING THE FOLLOWING:

1. WATER-JETTING OF COMBINED SANITARY/STORM PIPING SYSTEM
2. PLUMBING DEMOLITION.
3. SANITARY PIPING
4. DOMESTIC COLD & HOT WATER PIPING
5. VENT PIPING
6. ELECTRIC WATER HEATERS
7. REMOVAL OF GAS PIPING AND DECOMMISSIONING OF GAS SERVICE
8. DOMESTIC WATER
9. BACKFLOW PREVENTER
10. PLUMBING FIXTURES

CODE COMPLIANCE & STANDARDS

ENTIRE INSTALLATION SHALL BE COMPLETE, READY FOR OPERATION IN ACCORDANCE WITH THE LOCAL CODES AND ALL OTHER RULES AND REGULATIONS PERTAINING TO THIS WORK, INCLUDING BUILDING CRITERIA. THIS WORK SHALL CONFORM TO THE FOLLOWING STANDARDS:

A. NEW YORK CITY PLUMBING CODE (2020)*
B. NEW YORK CITY FUEL GAS CODE (2022)*
C. NEW YORK CITY ENERGY CONSERVATION CODE (2020)*
D. NEW YORK CITY FIRE CODE (2022)*
E. NEW YORK CITY BUILDING CODE (2022)*
F. UNDERWRITER'S LABORATORIES, INC. U.L.
G. NATIONAL FIRE CODES NFPA
H. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
I. AMCA
J. NATIONAL ELECTRICAL CODE (NEC)
K. ANSI/ASME
L. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

*ALL CODES INCLUDING ADDENDA

NOTE TO PLUMBING CONTRACTOR:

ANY DEVIATION IN INSTALLATION THAT IS CONSIDERED A SIGNIFICANT CHANGE AS PER NYC DEP AND REQUIRES REVISING AND REFILING DRAWINGS/DOCUMENTS, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NYC DEP REFILING FEES AND ENGINEERS EXPENSES.

PLUMBING SYSTEMS CLEANING DISINFECTION NOTES:

CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING AS FOLLOWS:

1. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
2. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR FOLLOW PROCEDURES DESCRIBED BELOW:
   A. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
   B. FILL AND ISOLATE SYSTEM ACCORDING TO THE FOLLOWING: FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM (50 MG/L) OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
3. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
4. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.

GENERAL NOTES FOR BACKFLOW PREVENTION INSTALLATION - NYC

1. THE INSTALLATION OF BACKFLOW PREVENTER DEVICE SHALL COMPLY WITH NEW YORK CITY (NYC) DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), LOCAL PLUMBING CODES, AND NEW YORK (NY) STATE HEALTH DEPARTMENT REQUIREMENTS.
2. UNLAWFUL TO REMOVE THIS DEVICE FOR ANY REASON UNLESS DEPARTMENT OF ENVIRONMENTAL PROTECTION IS NOTIFIED.
3. DEVICE MUST NOT BE SUBJECTED TO FLOODING OR FREEZING.
4. FLUSH WATER LINE THOROUGHLY BEFORE INSTALLING THE ASSEMBLY.
5. TEST COCK SHALL NOT FACE WALLS AND SHALL BE ACCESSIBLE TO BE TESTED.
6. THE BACKFLOW PREVENTER DEVICE SHALL BE INSTALLED ACCORDING TO APPROVED PLAN.
7. INSTALLATION SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR CERTIFIED TO INSTALL SUCH DEVICES.
8. INSTALLER SHALL NOTIFY NYC BUREAU OF WATER SUPPLY UPON COMPLETION OF WORK.
9. EACH BACKFLOW PREVENTER SHALL BE TESTED ANNUALLY BY NEW YORK STATE CERTIFIED TESTER.
10. TEST REPORTS MUST BE SUBMITTED TO BOTH THE NYC BUREAU OF WATER SUPPLY AND NYS DEPARTMENT OF HEALTH.
11. IT IS THE OWNER'S RESPONSIBILITY TO ENGAGE A CERTIFIED BACKFLOW PREVENTION TESTER TO TEST THE BACKFLOW PREVENTER DEVICE AT LEAST ANNUALLY WITH RESULTS REPORTED TO THE LOCAL WATER COMPANY. THE ASSEMBLY SHALL BE DISASSEMBLED AND OVERHAULED EVERY 5 YEARS REQUIRED BY NYS DOH REQUIREMENTS.
12. PIPING TO BE UNBRANCHED AND UNRESTRICTED FROM MAIN TO BACKFLOW PREVENTER DEVICE EXCEPT FOR METER.
13. PIPING BETWEEN POINT OF ENTRY AND BACKFLOW PREVENTER DEVICE MUST BE STENCILED "FEED TO BACKFLOW PREVENTER. DO NOT TAP OR CONNECT TO THIS LINE" AT 5' FT. INTERVALS AND AT ALL WALL AND FLOOR PENETRATIONS. PROVIDE 1" HIGH BLACK LETTERS ON WHITE BACKGROUND FOR DOMESTIC LINES AND WHITE LETTERS ON RED BACKGROUND FOR FIRE LINES.
14. WATER METER AND BACKFLOW PREVENTER DEVICE SHALL BE ADEQUATELY SUPPORTED AND/OR RESTRAINED TO PREVENT LATERAL MOVEMENT.
15. LEAD-FREE SOLDER SHALL BE USED FOR THE INSTALLATION.
16. THE WATER METER ROOM SHALL HAVE ADEQUATE HEATING AND LIGHTING.

NEW YORK CITY BUILDING CODE NOTES

1. ALL MATERIAL DESIGNATED BY THE BUILDING CODE FOR SPECIAL INSPECTIONS SHALL BE INSPECTED AND/OR TESTED TO VERIFY COMPLIANCE WITH CODE REQUIREMENTS. SUCH INSPECTION AND/OR TESTING SHALL BE PERFORMED BY, OR UNDER THE SUPERVISION OF, A LICENSED ARCHITECT OR ENGINEER EMPLOYED BY THE OWNER. SIGNED COPIES OF SUCH INSPECTION AND/OR TEST REPORT SHALL BE FILED WITH THE BUILDING DEPARTMENT SHOWING COMPLIANCE WITH ALL REQUIREMENTS OF THE BUILDING CODE AS PER SECTION BC109.1 OF THE BUILDING CODE.
2. A SIGNED STATEMENT SHALL BE OBTAINED FROM THE FIRE COMMISSIONER CERTIFYING ACCEPTANCE OF THE FIRE EXTINGUISHING SYSTEMS.
3. THESE PLANS AGREE AS TO THE ARRANGEMENT OF ROOMS AND WINDOWS WITH THE LAYOUT OF THE ARCHITECTURAL PLANS FILED HEREWITH.
4. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENT OF THE LATEST EDITION OF THE LOCAL BUILDING CODE AND OTHER AUTHORITIES EXERCISING JURISDICTION OF THE WORK OF THIS PROJECT.
5. ANY PORTION OF WORK WHICH IS NOT SUBJECT TO THE APPROVAL OF AN AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
6. SECURE PERMITS AND INSPECTION CERTIFICATES AND TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK.
7. CONSULTANT SHALL BE RESPONSIBLE FOR FILING ALL DESIGN DOCUMENTS WITH ALL CITY AGENCIES. SPECIAL INSPECTIONS WILL BE DONE BY AN AGENT RETAINED BY THE OWNER.
8. AN INSPECTION SHALL BE MADE OF THE COMPLETED SYSTEM TO VERIFY THAT THE INSTALLATION COMPLIES WITH THE REQUIREMENTS OF PC107.

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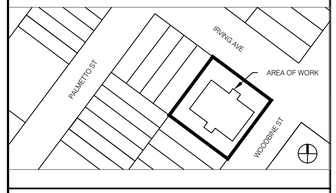
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

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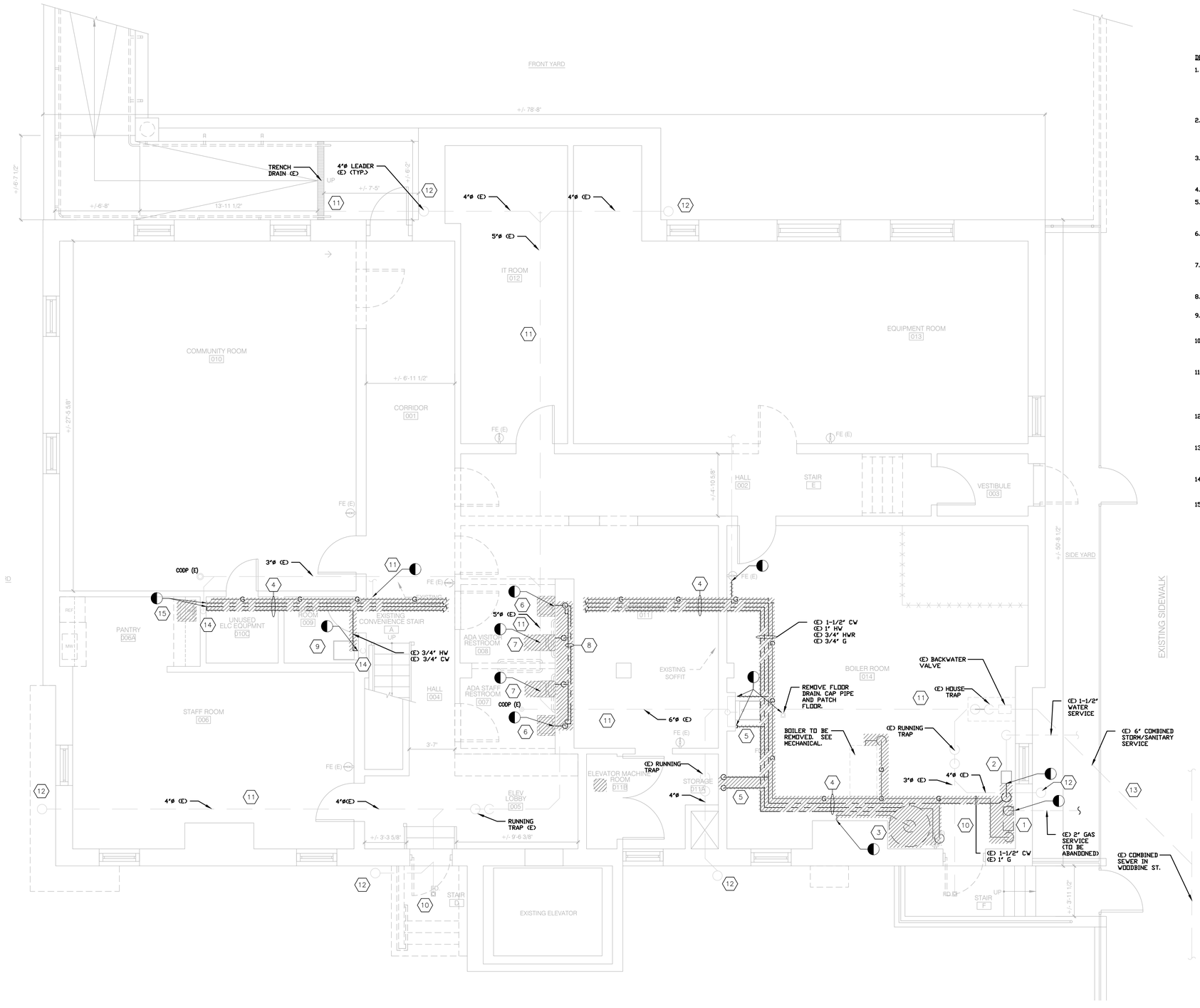
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1 PLUMBING BASEMENT DEMOLITION PLAN

1/4" = 1' - 0"

DEMO KEYED NOTES:

1. EXISTING GAS SERVICE TO BE DECOMMISSIONED. REMOVE ALL GAS PIPING BACK TO THE METER. COORDINATE WITH NATIONAL GRID AND OWNER FOR DISCONNECT OF SERVICE, INCLUDING REMOVAL OF METER AND LOCKOUT OF GAS CURB VALVE. UPON REMOVAL OF GAS METER AND LOCKOUT OF GAS CURB VALVE, REMOVE METER BAR AND ALL PIPING BACK TO THE BUILDING WALL AND CAP AT INTERIOR SIDE OF WALL.
2. EXISTING 1/1-2" WATER SERVICE, HOUSE CONTROL VALVE, MICV AND DEP WATER METER TO REMAIN. REMOVE EXISTING DOMESTIC WATER PIPING BACK TO OUTLET SIDE OF METER AND PREPARE FOR CONNECTION TO NEW RPZ BACKFLOW PREVENTER. PROVIDE TEMPORARY CAP FOR FUTURE PIPING RECONNECTION.
3. REMOVE EXISTING GAS-FIRED HOT WATER HEATER, INCLUDING ALL ASSOCIATED GAS, DOMESTIC WATER AND DRAIN PIPING, HOT WATER RECIRCULATION PUMP AND CONTROLS. DISCONNECT AND REMOVE EXISTING VENT BACK TO MASONRY CHIMNEY AND CAP.
4. REMOVE EXISTING GAS, COLD WATER, HOT WATER AND HOT WATER RETURN PIPING.
5. REMOVE COLD WATER AND HOT WATER PIPING TO EXISTING SINK. EXISTING SINK AND FAUCET TO REMAIN. PREPARE FIXTURE FOR CONNECTION TO NEW PIPING AND INSTANTANEOUS WATER HEATER. PROVIDE TEMPORARY CAP FOR FUTURE FIXTURE RECONNECTION.
6. REMOVE EXISTING LAVATORY INCLUDING TRAP, WATER SUPPLIES AND ACCESSORIES. DISCONNECT FROM EXISTING SANITARY CONNECTION AND PREPARE FOR CONNECTION OF NEW LAVATORY. PROVIDE TEMPORARY CAP FOR FUTURE FIXTURE RECONNECTION.
7. REMOVE EXISTING W.C., INCLUDING WATER SUPPLY, SANITARY FLANGE AND ELBOW AS REQUIRED TO ACCOMMODATE ROUGH-IN OF NEW W.C. PREPARE FOR CONNECTION OF NEW W.C. PROVIDE TEMPORARY CAP FOR FUTURE FIXTURE RECONNECTION.
8. REMOVE ALL EXISTING COLD WATER, HOT WATER AND HOT WATER RETURN PIPING WITHIN PIPING CHASE. SANITARY AND VENT PIPING TO REMAIN.
9. REMOVE EXISTING SERVICE SINK FAUCET. PREPARE PIPING CONNECTIONS FOR NEW FAUCET AND INSTANTANEOUS HOT WATER HEATER. SERVICE SINK TO REMAIN.
10. EXISTING AREA DRAIN TO BE REMOVED TO ACCOMMODATE LOWERING OF LANDING SLAB. CUT VERTICAL DRAIN PIPE BACK AS REQUIRED FOR NEW SLAB ELEVATION AND PREPARE FOR CONNECTION OF NEW DRAIN. PROVIDE TEMPORARY CAP FOR FUTURE DRAIN RECONNECTION.
11. WATER-JET ALL SUB-SLAB SANITARY/STORM PIPING, INCLUDING RUNNING TRAPS, HOUSE TRAP AND BACKWATER VALVE. UPON COMPLETION OF WATER-JETTING, VIDEO SCOPE PIPING TO CONFIRM CLEAR OF OBSTRUCTIONS AND DEPOSITS AND PROVIDE REPORT DOCUMENTING PIPE CONDITION. FIELD CONFIRM ALL EXISTING SUB-SLAB PIPE SIZE AND ROUTING.
12. EXISTING LEADER TO BE MODIFIED TO CONNECT TO NEW GUTTER SYSTEM. REMOVE EXISTING RECTANGULAR ALUMINUM LEADER PIPE AND REPLACE WITH NEW AS SPECIFIED ON FACADE RESTORATION DRAWINGS. CLEAN PORTION OF EXISTING LEADER TO REMAIN.
13. WATER-JET EXISTING COMBINED HOUSE SEWER OUT TO PUBLIC SEWER MAIN. UPON COMPLETION OF WATER-JETTING, VIDEO SCOPE PIPING TO CONFIRM PIPING IS CLEAR OF OBSTRUCTIONS AND DEPOSITS AND PROVIDE REPORT DOCUMENTING PIPE CONDITION.
14. DISCONNECT EXISTING COLD WATER AND HOT WATER PIPING AT WALL. PIPING TO KITCHEN SINK TO BE ABANDONED. PIPING TO SERVICE SINK TO BE FLUSHED AND REUSED.
15. REMOVE EXISTING KITCHEN SINK INCLUDING TRAP, WATER SUPPLIES AND ACCESSORIES. DISCONNECT FROM COLD WATER, HOT WATER AND SANITARY PIPING. PREPARE COLD WATER PIPING FOR CONNECTION OF NEW INSTANTANEOUS HOT WATER HEATER. PREPARE SANITARY PIPING FOR EXTENSION TO NEW SINK LOCATION. CAP HOT WATER PIPE.

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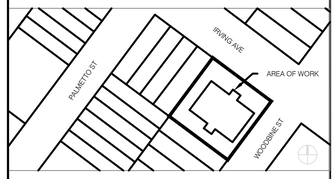
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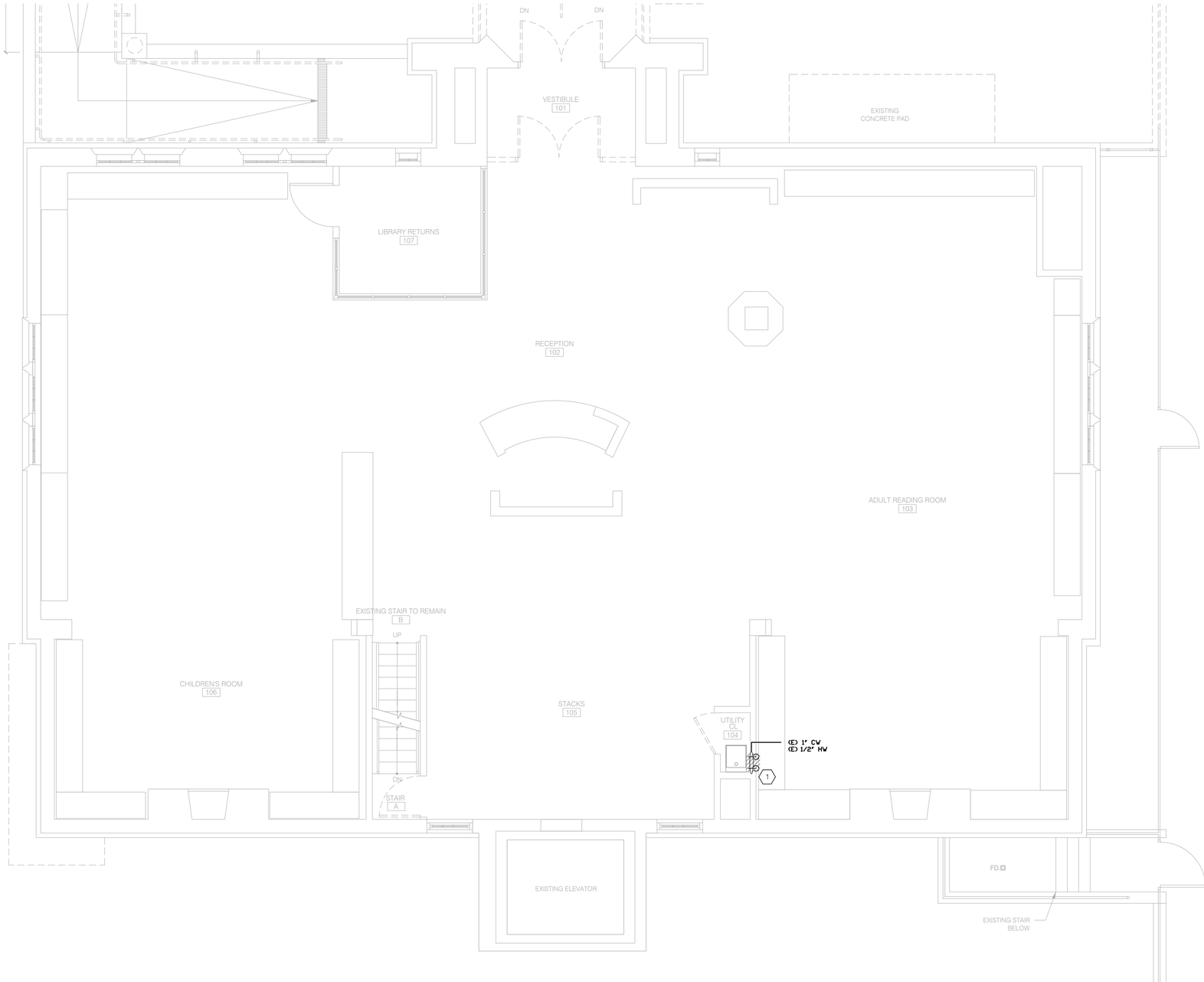
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
PLUMBING BASEMENT DEMOLITION PLAN

SEAL & SIGNATURE

STATE OF NEW YORK * GREGORY E. MUELLER * 096569 LICENSED PROFESSIONAL ENGINEER

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	TL
CHECKED BY:	GM/AA
DRAWING NUMBER:	**PD-101.00**
CADO FILE No:	



DEMO KEYED NOTES:

1. REMOVE COLD WATER AND HOT WATER PIPING TO EXISTING SINK. EXISTING SINK AND FAUCET TO REMAIN. PREPARE FIXTURE FOR CONNECTION TO NEW PIPING AND INSTANTANEOUS WATER HEATER. PROVIDE TEMPORARY CAP FOR FUTURE FIXTURE RECONNECTION AS REQUIRED.

1 PLUMBING FIRST FLOOR DEMOLITION PLAN

1/4" = 1' - 0"

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MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
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KEY PLAN:



NUMBER	DESCRIPTION	DATE
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Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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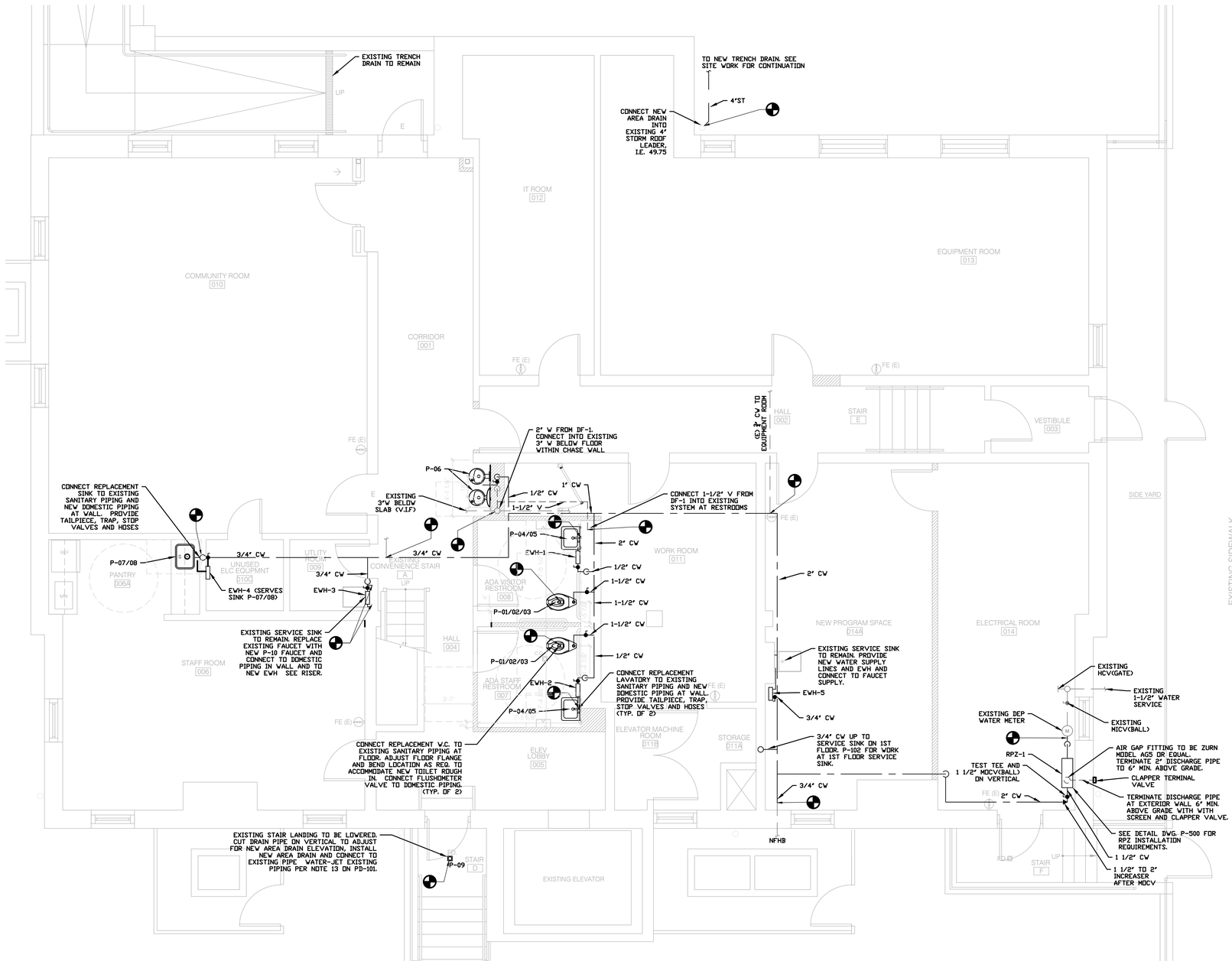
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NOTES:

1. RECONNECT NEW FIXTURES TO PLUGGED/CAPPED OUTLETS. ADJUST EXISTING ROUGH-INS IF REQUIRED. PROVIDE NEW POWER SUPPLY AS REQUIRED.
2. PROVIDE ADA UNDER-LAVATORY PROTECTORS. CONTRACTOR TO VERIFY EXISTING FIELD CONDITION PRIOR TO COMMENCING WORK.
3. SEE RISER DIAGRAM FOR WATER HAMMER ARRESTOR REQUIREMENTS AND LOCATIONS.



1 PLUMBING BASEMENT PLAN

1/4" = 1' - 0"

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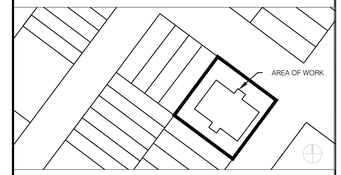
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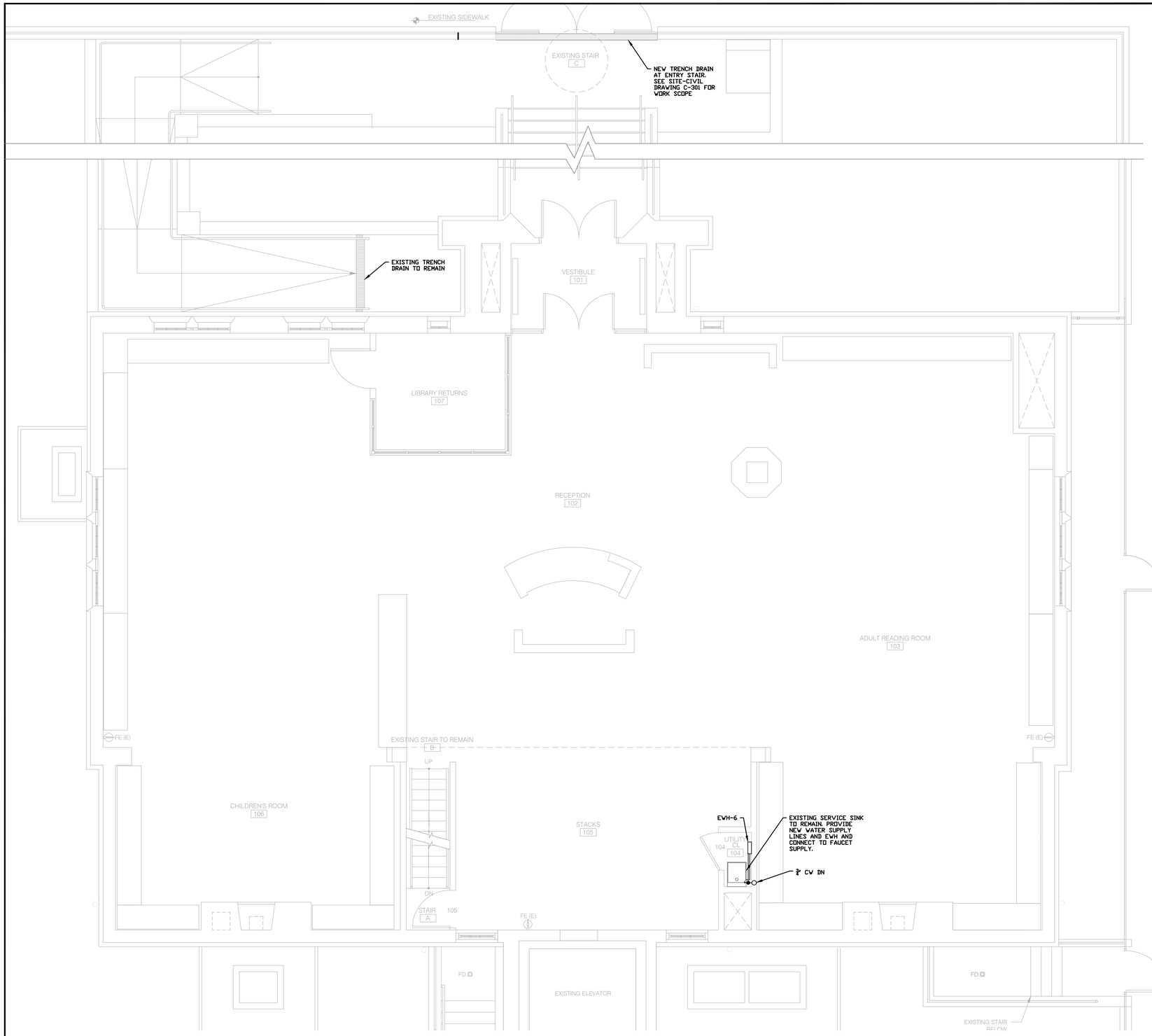
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SEAL & SIGNATURE

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1 PLUMBING FIRST FLOOR PLAN

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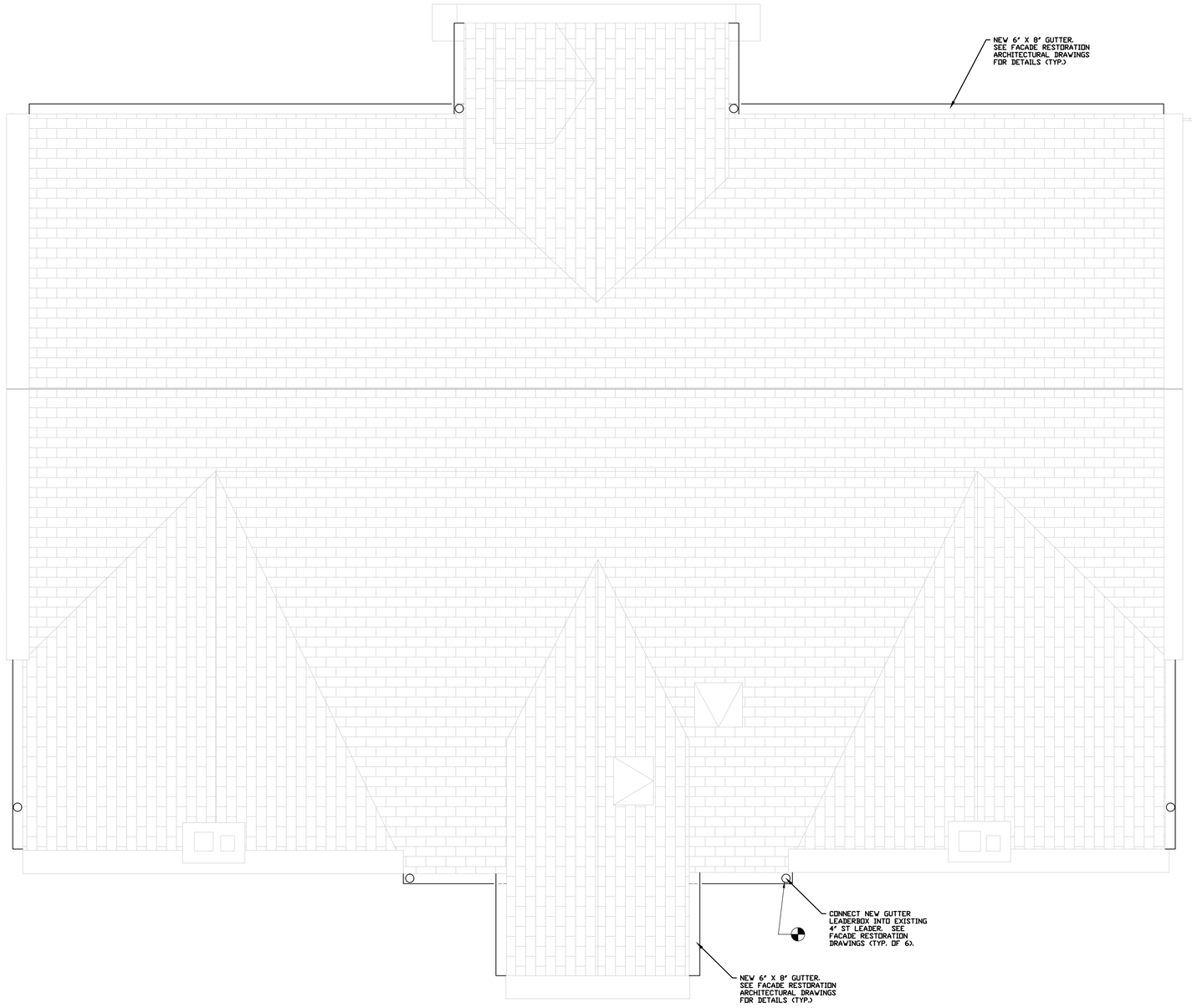
DRAWING TITLE:
PLUMBING - PROPOSED FIRST FLOOR PLAN

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CADO FILE No:	06 OF 11



1 PLUMBING ROOF PLAN

1/4" = 1' - 0"

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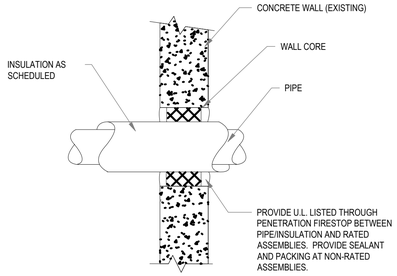
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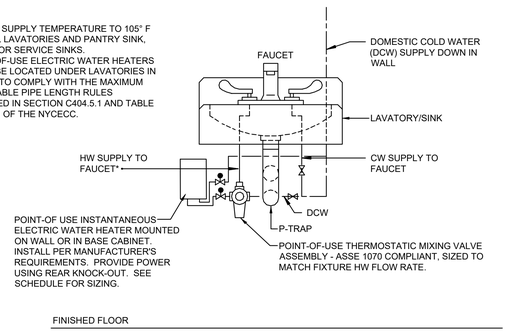


1 PIPE PENETRATION DETAIL

SCALE: N.T.S.

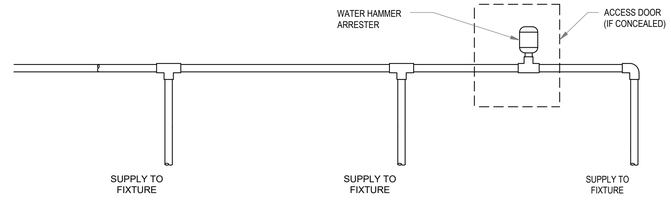
*NOTES:

1. SET HW SUPPLY TEMPERATURE TO 105° F FOR ALL LAVATORIES AND PANTRY SINK, 120° F FOR SERVICE SINKS.
2. POINT-OF-USE ELECTRIC WATER HEATERS SHALL BE LOCATED UNDER LAVATORIES IN ORDER TO COMPLY WITH THE MAXIMUM ALLOWABLE PIPE LENGTH RULES OUTLINED IN SECTION C404.5.1 AND TABLE C404.5.1 OF THE NYCECC.



2 INSTANTANEOUS P.O.U. WATER HEATER AND MIXING VALVE DETAIL

SCALE: N.T.S.



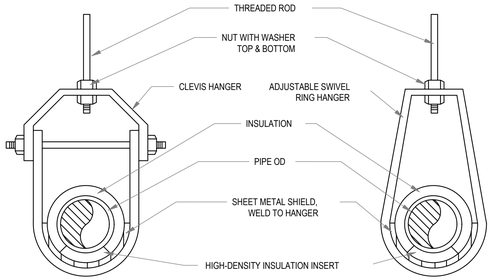
WATER HAMMER ARRESTER SCHEDULE						
ZURN SHOKTROL NO.	J.R. SMITH HYDROTOL NO.	JOSAM ABSORBOTRON NO.	FIXTURE UNITS	FIXTURE UNIT RATINGS		
				FIXTURE	CW	HW
Z-1700 SERIES #100	5005	75001	1-11	WC	10	-
Z-1700 SERIES #200	5010	75002	12-32	UR	5	-
Z-1700 SERIES #300	5020	75003	33-60	LAV	2	2
Z-1700 SERIES #400	5030	75004	61-113	S.S.	3	3
Z-1700 SERIES #500	5040	75005	114-154	SHWR	2	3

NOTES:

1. ARRESTERS SHALL BE ACCESSIBLE FOR REPLACEMENT BY WAY OF ACCESS DOOR.
2. APPROVED ARRESTERS SHALL BE INSTALLED ON WATER DISTRIBUTION SYSTEMS IN WHICH QUICK CLOSING VALVES ARE INSTALLED. MULTIPLE ARRESTOR INSTALLATIONS SHALL BE AS PER P.D.I. STANDARDS.

3 WATER HAMMER ARRESTOR DETAIL

SCALE: N.T.S.



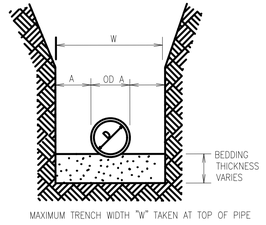
ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2" - 3"	3/8"

NOTES:

1. HANGER, ROD, SLEEVE & INSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION.
2. FOR SPACING AND TYPE OF SUPPORTS, REFER TO PLUMBING CODE.
3. CLEVIS HANGERS REQUIRED ON ALL PIPING 2" AND LARGER.
4. FOR NON-INSULATED OR NON-FERROUS PIPING, PROVIDE RUBBER GASKET/COATED HANGERS.
5. PROVIDE STEEL RETAINING STRAP FOR "C" CLAMPS.
6. PROVIDE ANCHORAGE TO STRUCTURE PER NOTES ON P-002.

4 PIPE HANGING DETAIL

SCALE: N.T.S.

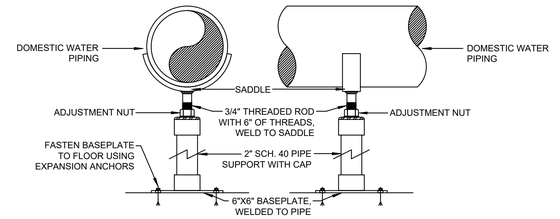


MAXIMUM TRENCH WIDTH "W" TAKEN AT TOP OF PIPE

PIPE DIA "D"	MAXIMUM "A"
4" TO 15"	8"

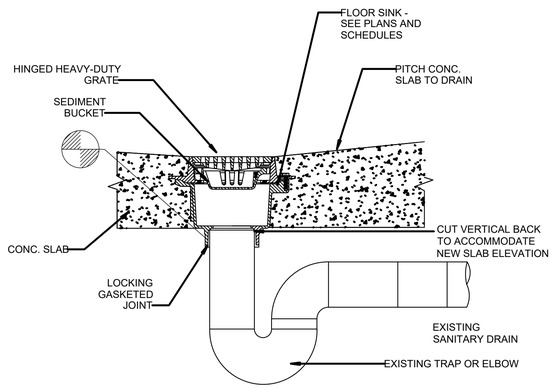
7 STANDARD PIPE TRENCH WIDTH DETAIL

SCALE: N.T.S.



8 ADJUSTABLE PIPE STANCHION SUPPORT DETAIL

SCALE: N.T.S.

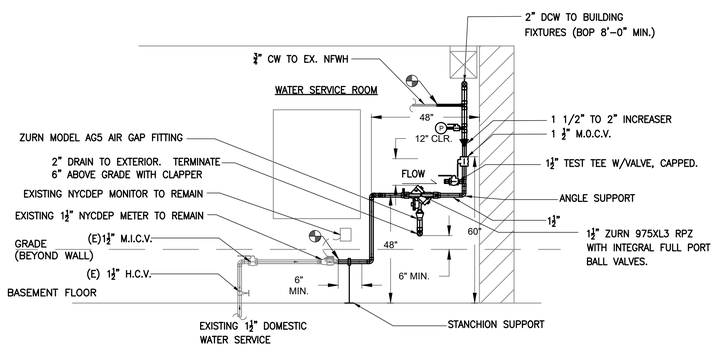


5 AREA DRAIN AT LANDING DETAIL

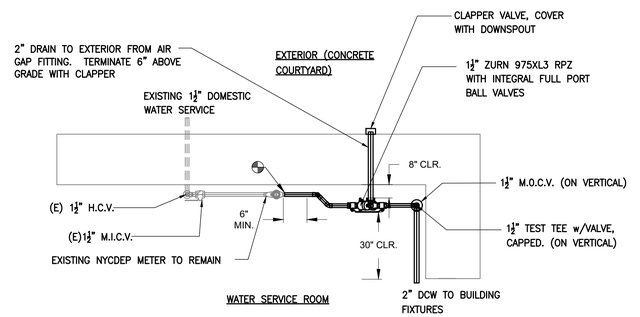
SCALE: N.T.S.

NOTES:

1. REFERENCE SEPARATE NYC DEP BACKFLOW PREVENTER (BFP) FILING PACKAGE AND DRAWINGS FOR INSTALLATION DETAILS. NO DEVIATIONS FROM THE APPROVED DRAWINGS WILL BE ACCEPTED OR CERTIFIED. FOR ANY DEVIATION IN INSTALLATION THAT IS CONSIDERED A SIGNIFICANT CHANGE AS PER NYC DEP AND REQUIRES REVISING AND REFILING DRAWINGS/DOCUMENTS, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NYC DEP REFILING FEES AND ENGINEERS EXPENSES. REFERENCE BFP ASSEMBLY INSTALLATION NOTES ON DRAWING P–002 FOR ADDITIONAL REQUIREMENTS.
2. THE INSTALLATION SHALL COMPLY IN ALL RESPECTS WITH NYC DEP CROSS CONNECTION CONTROL REQUIREMENTS. REFERENCE NOTES ON DWG. P–002.
3. AFTER INSTALLATION OF BFP ASSEMBLY, THE ASSEMBLY MUST BE TESTED BY A CERTIFIED TESTER. TWO COMPLETED NYC GEN215B FORMS SIGNED BY THE CERTIFIED TESTER AND SIGNED AND SEALED BY THE LICENSED PLUMBER, AND A PROFESSIONAL ENGINEER AND SHALL BE FORWARDED TO THE DEP.



ELEVATION



PLAN

6 BACKFLOW PREVENTER DETAIL

SCALE: N.T.S.

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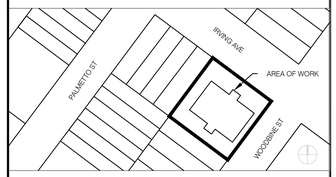
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WATER HEATER SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	MAX FLOW (GPM)	TURN ON (GPM)	MAX TEMPERATURE RISE (°F)	ELECTRIC DATA				APPROX. WEIGHT LBS.	DIMENSIONS	DETAILS	REMARKS
							POWER (KW)	PHASE	CYCLE	VOLTS				
EWH-1	RESTROOM - 008	EEMAX	SPEX4208T	0.5	0.2	80	4.1	1	60	208	4	10.75"x5.25"x3"		* THERMOSTATIC MIXING VALVE: ACORM MODEL #ST70, OR ANOTHER APPROVED
EWH-2	RESTROOM - 007	EEMAX	SPEX4208T	0.5	0.2	80	4.1	1	60	208	4	10.75"x5.25"x3"		* THERMOSTATIC MIXING VALVE: ACORM MODEL #ST70, OR ANOTHER APPROVED
EWH-3	UTILITY ROOM - 009	EEMAX	XTP018208	2.0	0.5	70	18.0	3	60	208	36	20.5"x18.5"x6"	PROVIDE 2.0 GPM FLOW REGULATOR	* THERMOSTATIC MIXING VALVE: ACORM MODEL #ST70, OR ANOTHER APPROVED
EWH-4	UNUSED ELEC. EQUIP. ROOM - 010C	EEMAX	XTP018208	2.0	0.5	70	18.0	3	60	208	36	20.5"x18.5"x6"	PROVIDE 2.0 GPM FLOW REGULATOR	* THERMOSTATIC MIXING VALVE: ACORM MODEL #ST70, OR ANOTHER APPROVED
EWH-5	NEW PROGRAM SPACE - 014A	EEMAX	XTP018208	2.0	0.5	70	18.0	3	60	208	36	20.5"x18.5"x6"	PROVIDE 2.0 GPM FLOW REGULATOR	* THERMOSTATIC MIXING VALVE: ACORM MODEL #ST70, OR ANOTHER APPROVED
EWH-6	UTILITY - 104	EEMAX	XTP018208	2.0	0.5	70	18.0	3	60	208	36	20.5"x18.5"x6"	PROVIDE 2.0 GPM FLOW REGULATOR	* THERMOSTATIC MIXING VALVE: ACORM MODEL #ST70, OR ANOTHER APPROVED

* THERMOSTATIC MIXING VALVES THAT COMPLY WITH ASSE 1070 AND ARE CAPABLE OF CONTROLLING AS WELL AS MAINTAINING THE DELIVERED TEMPERED WATER TO 105°F. MIXING VALVE SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS. VALVE SHALL INCLUDE INTEGRAL CHECKS WITH SCREENS TO PREVENT BACKFLOW AND TO FILTER DEBRIS FROM ENTERING THE VALVE.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MODEL	MANUFACTURER	WASTE/SOIL	VENT	CW	HW	DETAILS
P-01/02/03	WATER CLOSET, FLOOR MOUNTED, FLUSH-VALVE	SEE ARCHITECTURAL DRAWING	SEE ARCHITECTURAL DRAWING	4"	2"	1-1/2"	-	PROVIDE WITH FLANGE RING AND AUTOMATIC FLUSH VALVE
P-04/05	WALL-MOUNTED LAVATORY W/FAUCET	SEE ARCHITECTURAL DRAWING	SEE ARCHITECTURAL DRAWING	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE WITH NEW DRAIN, TAILPIECE, P-TRAP, STOP VALVES AND BRAIDED SUPPLY S/S HOSES
P-06	DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, ADA	SEE ARCHITECTURAL DRAWING	SEE ARCHITECTURAL DRAWING	1-1/2"	1-1/2"	1/2"	-	PROVIDE WITH WALL CARRIER, STOP VALVE AND P-TRAP FOR EACH RECEPTOR OUTLET
P-07/08	DROP-IN KITCHEN SINK W/FAUCET	SEE ARCHITECTURAL DRAWING	SEE ARCHITECTURAL DRAWING	2"	1-1/2"	1/2"	1/2"	PROVIDE WITH NEW DRAIN, TAILPIECE, P-TRAP, STOP VALVES AND BRAIDED SUPPLY S/S HOSES
P-09	3" FLOOR DRAIN WITH SEDIMENT BUCKET	FD323-Y-5	WATTS	3"	1-1/2"	-	-	HEAVY DUTY CAST IRON BODY WITH REMOVABLE CAST IRON GRATE, SEDIMENT BUCKET, NO-HUB OUTLET
P-10	SERVICE SINK FAUCET W/ INTEGRAL BUCKET FILL	LK940BP03T4H	ELKAY	-	-	3/4"	3/4"	

RPZ SCHEDULE

TAG	LOCATION	MANUF./MODEL	SERVICE	QUANTITY	CONNECTION SIZE (NPS)	PERFORMANCE DATA		DETAILS
						DESIGN FLOW (GPM)	MAX PRESSURE LOSS(PSI)	
RPZ-1	WATER SERVICE 014	WATTS/ZURN975XL3	DOMESTIC WATER	1	1-1/2"	40	13	PROVIDE WITH AG-5 AIR GAP FITTING

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



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1	Issued for Bid	03-17-2026

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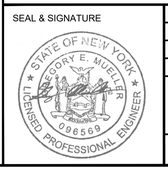
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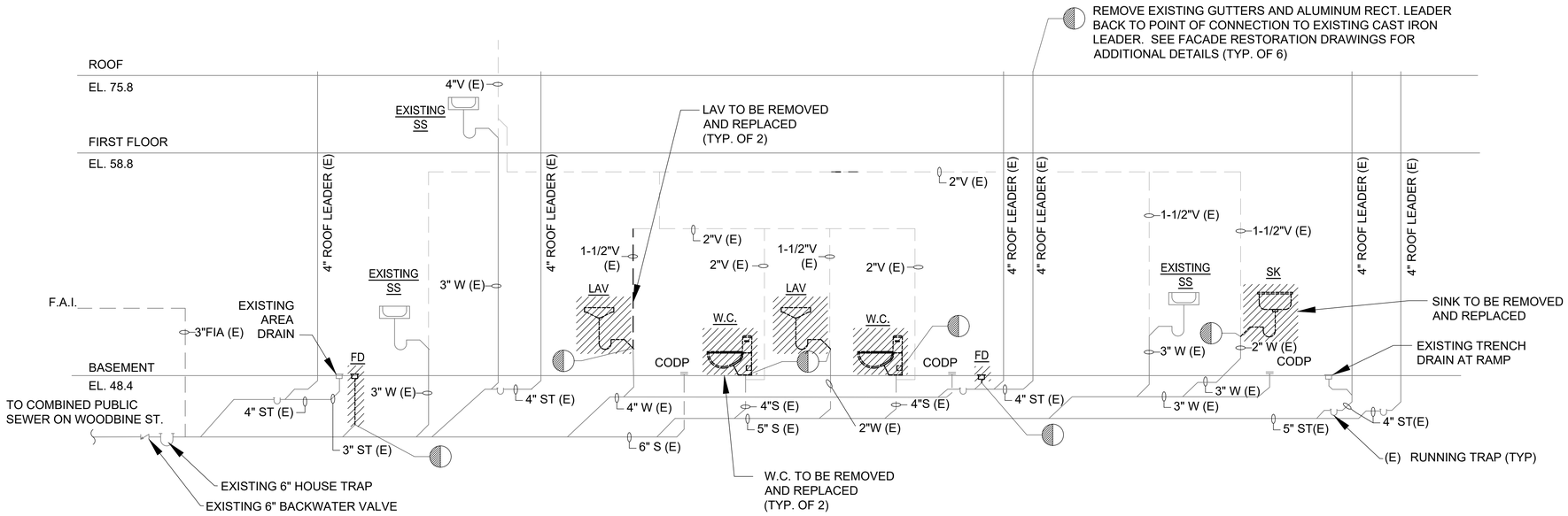
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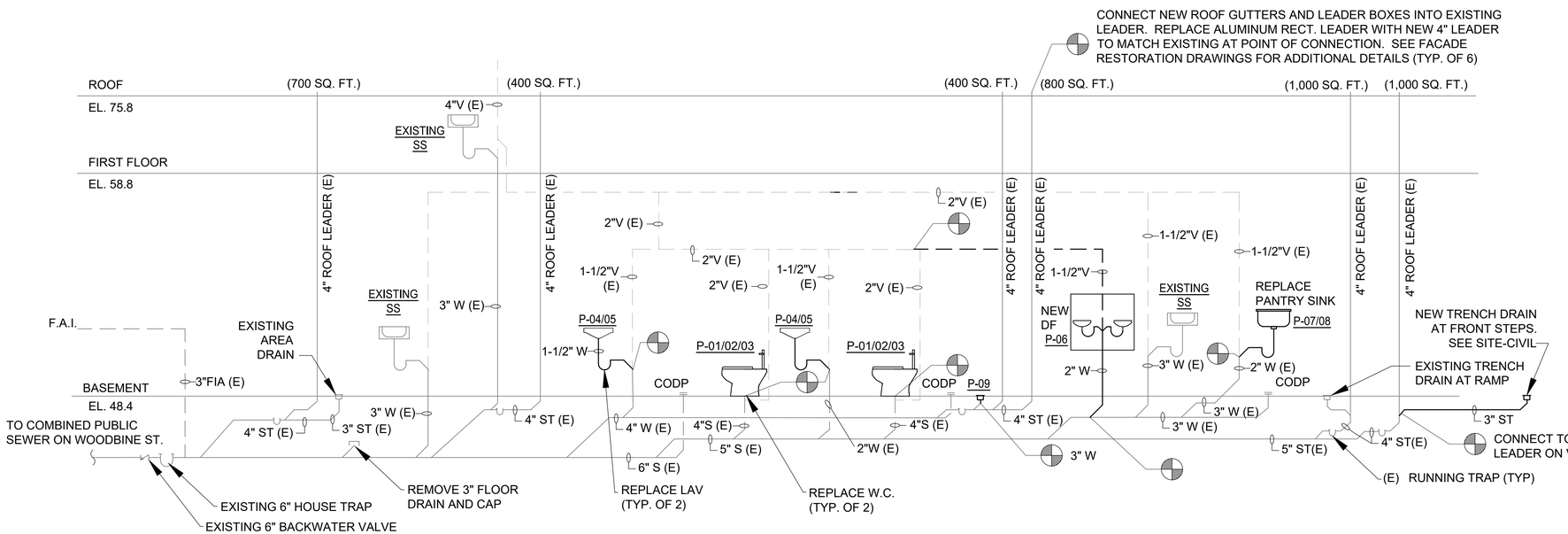


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DRAWING NUMBER:	**P-600.00**
CADO FILE No:	



1 DEMOLITION SANITARY/STORM RISER DIAGRAM

SCALE: N.T.S



2 PROPOSED SANITARY/STORM RISER DIAGRAM

SCALE: N.T.S

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360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

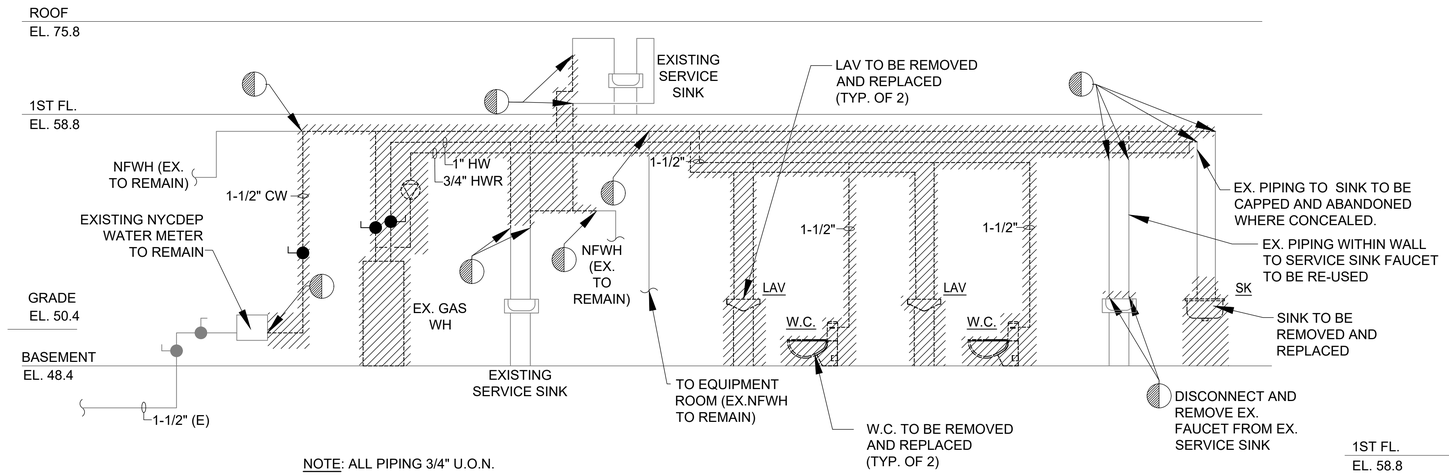
FOR THE:
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SANITARY/STORM RISER DIAGRAMS

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GREGORY E. MUELLER — STATE OF NEW YORK — 096569 — LICENSED PROFESSIONAL ENGINEER

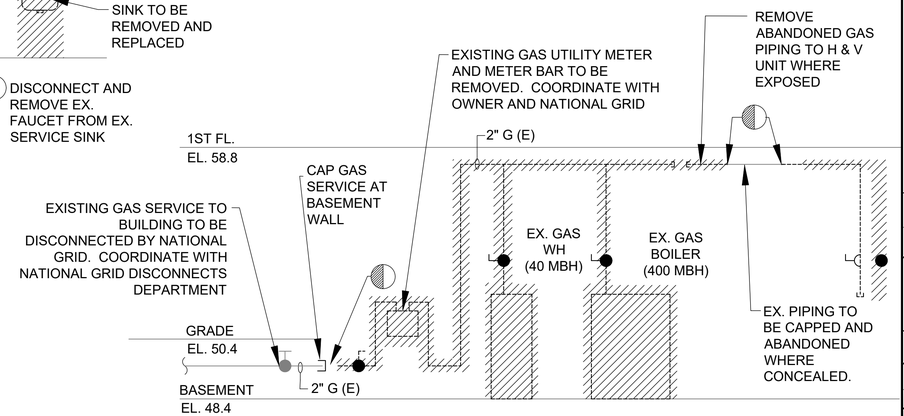
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CADO FILE No:	



NOTE: ALL PIPING 3/4" U.O.N.

1 DEMOLITION DOMESTIC WATER RISER DIAGRAM

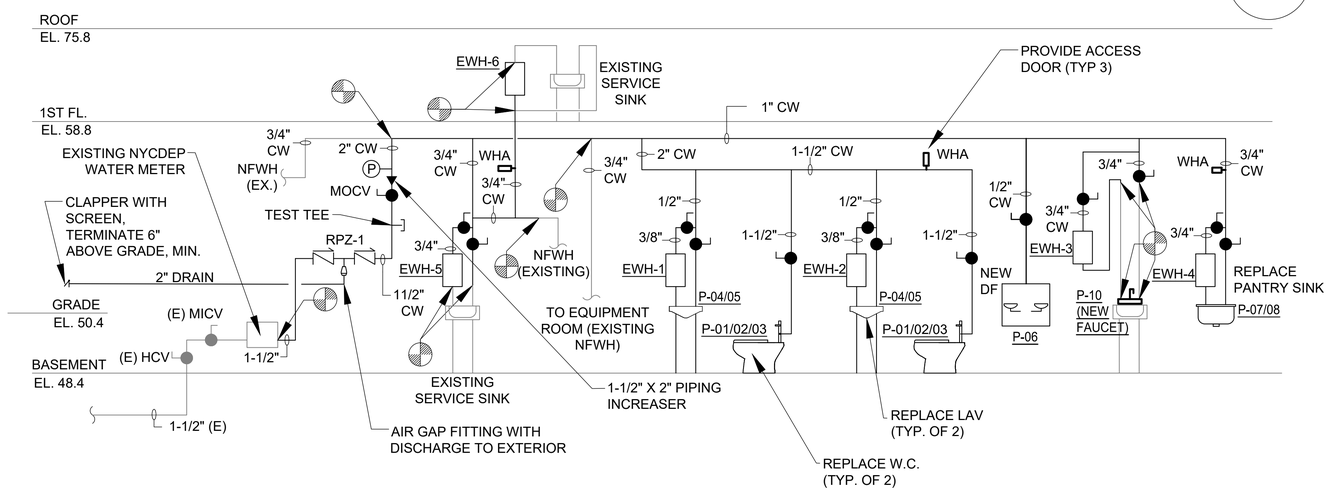
SCALE: N.T.S.



NOTE: ALL EXISTING GAS APPLIANCES AND GAS PIPING WITHIN BUILDING TO BE REMOVED (PIPING TO BE CAPPED AND ABANDONED WHERE INACCESSIBLE). GAS SERVICE TO BE CAPPED AT WALL ONCE PERMANENTLY DISCONNECTED IN THE STREET BY NATIONAL GRID. COORDINATE WITH NATIONAL GRID DISCONNECTS DEPARTMENT FOR REMOVAL OF GAS METER AND PERMANENT RETIREMENT OF GAS SERVICE PRIOR TO REMOVAL OF ANY EXISTING GAS PIPING OR APPLIANCES. CONTRACTOR TO MAINTAIN PROPER RECOR-KEEPING AND SUBMIT DOCUMENTATION TO ALL RELEVANT STAKEHOLDERS.

3 DEMOLITION GAS RISER DIAGRAM

SCALE: N.T.S.



2 PROPOSED DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.

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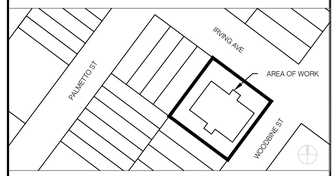
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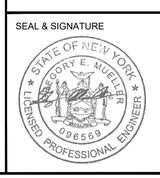
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FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
DOMESTIC WATER AND GAS RISER DIAGRAMS

SEAL & SIGNATURE



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FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
P	MANUAL PULL STATION
2/EL	PHOTO ELECTRIC SMOKE DETECTOR EL - ELEVATOR RECALL
2	SMOKE DETECTOR FOR DUCT
2 R	SMOKE/HEAT DETECTOR
R	OUTPUT RELAY
H	AUDIO DEVICE (WALL MOUNTED) H - HORN C - CHIME S - SPEAKER M - MINI
	STROBE (WALL MOUNTED)
H	AUDIO/VISUAL COMBINATION (WALL MOUNTED) H - HORN (75cd) C - CHIME S - SPEAKER
FACP	FIRE ALARM CONTROL PANEL
FSA	FIRE SYSTEM ANNUNCIATOR ALARM

MISCELLANEOUS

SYMBOL	DESCRIPTION
# #	REFERENCE NOTE
A E-3	DIGITAL REFERENCE: - DETAIL DESIGNATION - SHEET NUMBER REFERENCE
EF 1	EQUIPMENT REFERENCE. COORDINATE EQUIPMENT WITH MECHANICAL/PLUMBING TRADES. SEE MECHANICAL/PLUMBING DRAWINGS FOR LOCATIONS

FIRE ALARM GENERAL NOTES

1. ALL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE 2022 EDITION OF NYC BUILDING CODE, NYC FIRE CODE 2022 EDITION, NFPA 72; NATIONAL FIRE ALARM CODE 2022 EDITION, NYC ELECTRICAL CODE 2011 EDITION, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITER'S LABORATORIES, INC. (UL), AMERICANS WITH DISABILITIES ACT (ADA), NYC FIRE DEPARTMENT AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. VISIT THE SITE AND VERIFY ALL THE EXISTING CONDITIONS AS SHOWN ON THE CONTRACT DRAWINGS BEFORE SUBMITTING THE BID.
3. PERFORM ALL CUTTING, PATCHING AND SURFACE RESTORATION REQUIRED TO COMPLETE THE INSTALLATIONS. CUTTING OF EXISTING BUILDING WALLS SHALL BE NEAT AND KEPT TO MINIMUM. PROVIDE FIRE STOPPING OF ALL RACEWAY PENETRATION THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS.
4. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES. PROVIDE JUNCTION AND PULL BOXES AND TERMINAL CABINETS, AS REQUIRED TO FACILITATE PULLING AND SPLICING OF WIRES. JUNCTION AND PULL BOX AND TERMINAL CABINETS COVERS SHALL BE ACCESSIBLE. VERIFY LOCATIONS OF FIRE ALARM DEVICES SHOWN ON DRAWINGS WITH THE EXISTING CONDITIONS. ALL NEW CONDUIT INSTALLATION SHALL BE CONCEALED IN HUNG CEILINGS AND BEHIND DRY WALL. PROVIDE FIRE STOP AT ALL CORE DRILLS THROUGH FIRE RATED WALLS AND FLOORS.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFYING THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS.
6. THE ELECTRICAL CONTRACTOR AS PART OF THEIR QUOTE TO THE OWNER'S GENERAL CONTRACTOR MUST INCLUDE ALL OF THE CONDUIT, CONNECTORS, BOXES, & MISCELLANEOUS PARTS NECESSARY TO TRANSPORT ALL OF THE WIRING THAT IS FURNISHED & INSTALLED BY THE FIRE ALARM CONTRACTOR. IT IS THE ELECTRICAL'S CONTRACTOR RESPONSIBILITY TO CALCULATE AND COORDINATE ALL OF THE MATERIALS NECESSARY TO TRANSPORT THESE FIRE ALARM WIRES BASED ON CONVERSATIONS WITH THE FIRE ALARM SUBCONTRACTOR AND NORMAL NATIONAL ELECTRIC CODE (NEC) WIRE TO CONDUIT SIZE REQUIREMENTS.
7. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE & RELOCATE ANY J-BOXES AS REQUIRED.
8. ALL DEVICES SHOWN ON PLAN ARE NEW. EXISTING DEVICES SHALL BE MODIFIED AND RELOCATED AS REQUIRED. VERIFY REQUIREMENTS IN THE FIELD.
9. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO INSTALL NEW DEVICES PER FIRE ALARM DEPARTMENT REVIEW. INCLUDE COST FOR ADDITIONAL FIVE DEVICES, WIRE AND 200' OF CONDUIT.
10. ALL NEW TENANT FIRE ALARM DEVICES MUST BE COMPATIBLE & MATCH WITH BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER, AS REQUIRED BY BUILDING STANDARDS. FIRE ALARM DEVICES SHALL BE FURNISHED AND INSTALLED BY TENANT'S FIRE ALARM CONTRACTOR.
11. FURNISH AND INSTALL A COMPLETE RACEWAY SYSTEM FOR THE FIRE ALARM SYSTEM.
12. PROVIDE ALL RACEWAY, CABLE, CONNECTIONS, AND PROGRAMMING. PROVIDE ALL FIRE ALARM INTERFACE FOR ALL FIRE PROTECTION, ARCHITECTURAL, AND MECHANICAL EQUIPMENT AS REQUIRED.
13. PER ADAAG SECTION 309, THE F.A PULL-STATION HEIGHT OF THE TOP OF THE OPERABLE PART MAY NOT EXCEED 48" AFF, AND PER NFPA 72, THE OPERABLE PART SHALL BE BETWEEN 42" AND 48" AFF. FURTHERMORE, COMPLIANCE WITH ADAAG SECTION 702.1 AND NFPA 72 FOR STROBE LIGHTS REQUIRES THE ENTIRE LENS TO BE WITHIN 80" AND 96" AFF.

FIRE ALARM WIRING NOTES

1. ALL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE 2022 EDITION OF NYC BUILDING CODE, NYC FIRE CODE 2022 EDITION, NFPA 72; NATIONAL FIRE ALARM CODE 2010 EDITION, NYC ELECTRICAL CODE 2011 EDITION, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITER'S LABORATORIES, INC. (UL), AMERICANS WITH DISABILITIES ACT (ADA), NYC FIRE DEPARTMENT AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. VISIT THE SITE AND VERIFY ALL THE EXISTING CONDITIONS AS SHOWN ON THE CONTRACT DRAWINGS BEFORE SUBMITTING THE BID.
3. PERFORM ALL CUTTING, PATCHING AND SURFACE RESTORATION REQUIRED TO COMPLETE THE INSTALLATIONS. CUTTING OF EXISTING BUILDING WALLS SHALL BE NEAT AND KEPT TO MINIMUM. PROVIDE FIRE STOPPING OF ALL RACEWAY PENETRATION THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS.
4. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES. PROVIDE JUNCTION AND PULL BOXES AND TERMINAL CABINETS, AS REQUIRED TO FACILITATE PULLING AND SPLICING OF WIRES. JUNCTION AND PULL BOX AND TERMINAL CABINETS COVERS SHALL BE ACCESSIBLE. VERIFY LOCATIONS OF FIRE ALARM DEVICES SHOWN ON DRAWINGS WITH THE EXISTING CONDITIONS. ALL NEW CONDUIT INSTALLATION SHALL BE CONCEALED IN HUNG CEILINGS AND BEHIND DRY WALL. PROVIDE FIRE STOP AT ALL CORE DRILLS THROUGH FIRE RATED WALLS AND FLOORS.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFYING THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS.
6. THE ELECTRICAL CONTRACTOR AS PART OF THEIR QUOTE TO THE OWNER'S GENERAL CONTRACTOR MUST INCLUDE ALL OF THE CONDUIT, CONNECTORS, BOXES, & MISCELLANEOUS PARTS NECESSARY TO TRANSPORT ALL OF THE WIRING THAT IS FURNISHED & INSTALLED BY THE FIRE ALARM CONTRACTOR. IT IS THE ELECTRICAL'S CONTRACTOR RESPONSIBILITY TO CALCULATE AND COORDINATE ALL OF THE MATERIALS NECESSARY TO TRANSPORT THESE FIRE ALARM WIRES BASED ON CONVERSATIONS WITH THE FIRE ALARM SUBCONTRACTOR AND NORMAL NATIONAL ELECTRIC CODE (NEC) WIRE TO CONDUIT SIZE REQUIREMENTS.
7. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE & RELOCATE ANY J-BOXES AS REQUIRED.
8. ALL DEVICES SHOWN ON PLAN ARE NEW. EXISTING DEVICES SHALL BE MODIFIED AND RELOCATED AS REQUIRED. VERIFY REQUIREMENTS IN THE FIELD.
9. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO INSTALL NEW DEVICES PER FIRE ALARM DEPARTMENT REVIEW. INCLUDE COST FOR ADDITIONAL FIVE DEVICES, WIRE AND 200' OF CONDUIT.
10. ALL NEW TENANT FIRE ALARM DEVICES MUST BE COMPATIBLE & MATCH WITH BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER, AS REQUIRED BY BUILDING STANDARDS. FIRE ALARM DEVICES SHALL BE FURNISHED AND INSTALLED BY TENANT'S FIRE ALARM CONTRACTOR.
11. FURNISH AND INSTALL A COMPLETE RACEWAY SYSTEM FOR THE FIRE ALARM SYSTEM.
12. PROVIDE ALL RACEWAY, CABLE, CONNECTIONS, AND PROGRAMMING. PROVIDE ALL FIRE ALARM INTERFACE FOR ALL FIRE PROTECTION, ARCHITECTURAL, AND MECHANICAL EQUIPMENT AS REQUIRED. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT.
13. ALL FIRE ALARM CABLE SHALL BE NYC APPROVED.



BROOKLYN PUBLIC LIBRARY -
WASHINGTON IRVING BRANCH

360 IRVING AVE
BROOKLYN, NY 11237

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LOT: 32

01 KEYPLAN

SCALE: NTS

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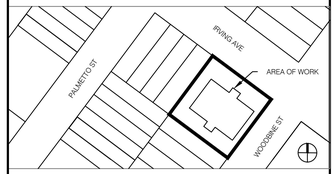
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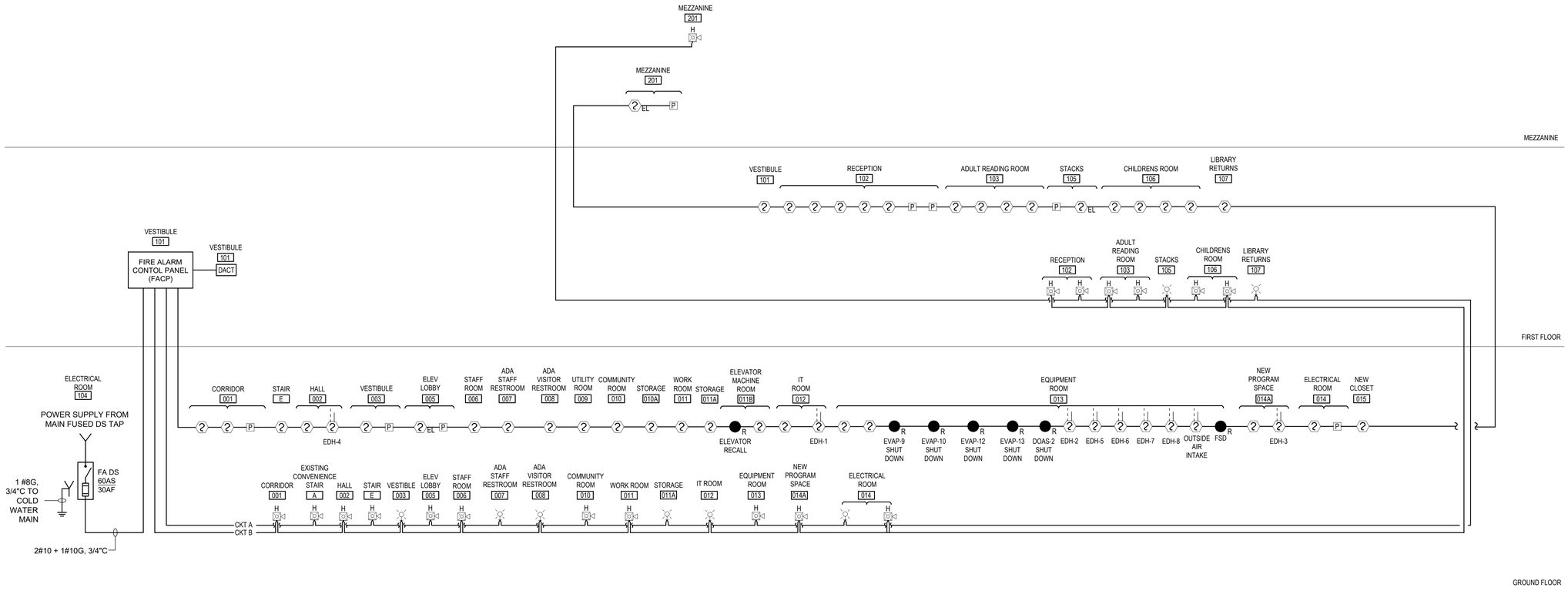
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DRAWING TITLE:
FIRE ALARM NOTES, SYMBOLS, AND KEYPLAN

SEAL & SIGNATURE

STATE OF NEW YORK · GREGORY E. MUELLER · 096569 · LICENSED PROFESSIONAL ENGINEER

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CHECKED BY:	JK
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CAD FILE No:	



NOTE: GROUND FLOOR LEVEL INDICATED IN FIRE ALARM PLANS CORRESPONDS WITH BASEMENT LEVEL INDICATED IN ARCHITECTURAL PLANS

01 FIRE ALARM RISER DIAGRAM

SCALE: NTS

		SYSTEM OUTPUTS												
		Control Unit Annunciation				Notification						Supplementary		
SYSTEM INPUTS		ACTUATE COMMON ALARM SIGNAL	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE VISUAL/AUDIO DEVICES	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT AUTOMATIC ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT MANUAL SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RECALL ELEVATORS TO GROUND FLOOR, OPEN CAB DOOR	CLOSE ALL FIRE SMOKE DAMPER	SHUT DOWN ALL FANS	
		A	B	C	D	E	F	G	H	I	J	K	L	
1	MANUAL FIRE ALARM BOXES	X	X			X	X		X					1
2	AREA SMOKE DETECTORS - BASEMENT	X	X			X	X	X				X	X	2
3	AREA SMOKE DETECTORS - FIRST FLOOR & MEZZANINE	X	X			X	X	X						3
4	DUCT SMOKE DETECTORS	X	X			X	X	X				X	X	4
5	ELEVATOR LOBBY & MACHINE RM SMOKE DETECTORS	X	X			X	X	X			X	X		5
6	FIRE ALARM AC FAILURE			X	X		X			X				6
7	FIRE ALARM SYSTEM LOW BATTERY			X	X		X			X				7
8	OPEN CIRCUIT			X	X		X			X				8
9	GROUND FAULT			X	X		X			X				9
10	NOTIFICATION APPLIANCE CIRCUIT SHORT			X	X		X			X				10
		A	B	C	D	E	F	G	H	I	J	K	L	

02 TEMPORAL 3 FIRE ALARM OPERATIONS MATRIX

SCALE: NTS

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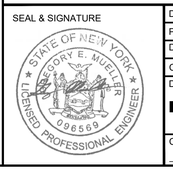
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360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

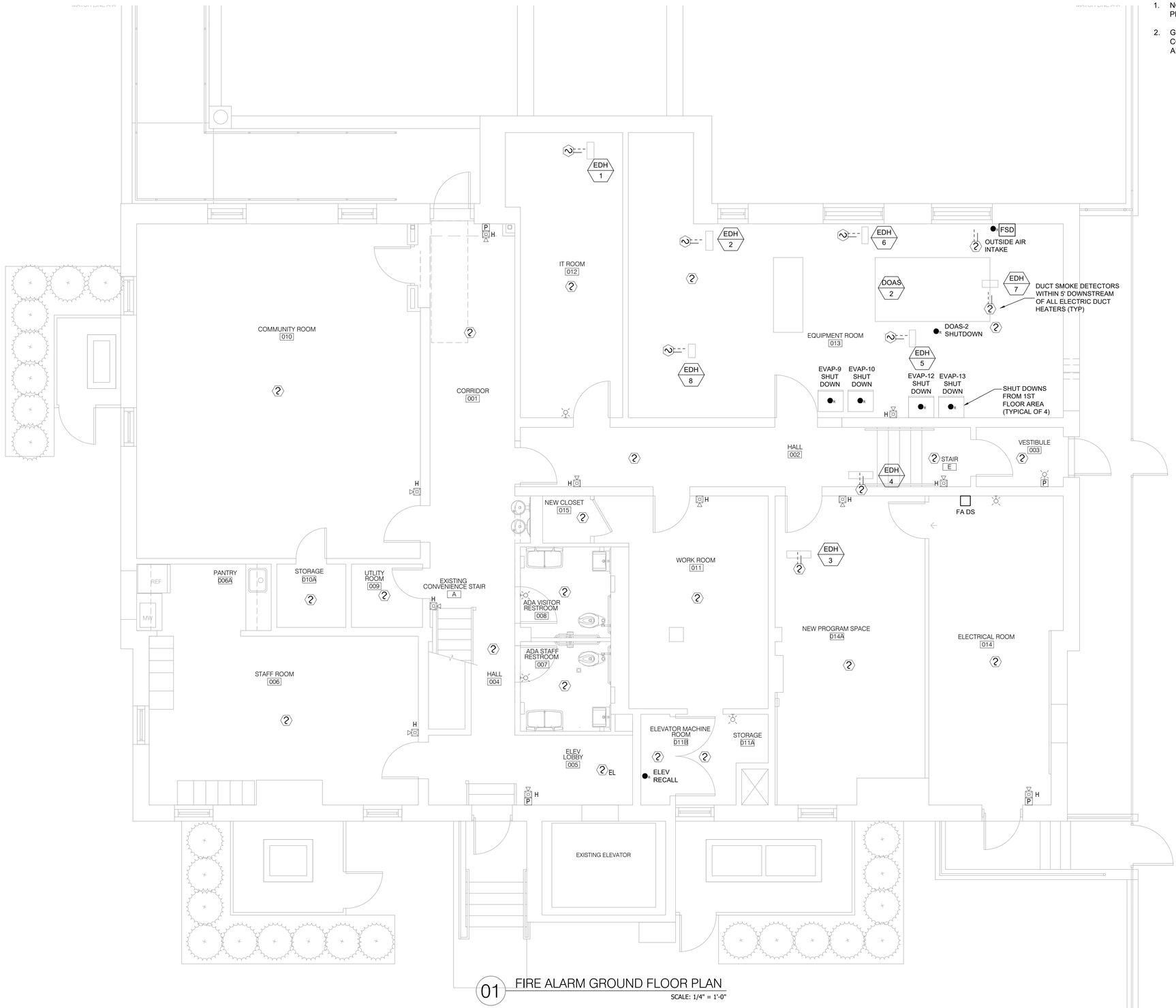
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
FIRE ALARM RISER DIAGRAM AND OPERATIONS MATRIX

SEAL & SIGNATURE



DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
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CHECKED BY:	JK
DRAWING NUMBER:	**FA-002.00**
CAD FILE No:	



01 FIRE ALARM GROUND FLOOR PLAN

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

GENERAL NOTE:

1. NO CARBON MONOXIDE (CO) BURNING EQUIPMENT IS PRESENT ON THE BUILDING PREMISE.
2. GROUND FLOOR LEVEL INDICATED IN FIRE ALARM PLANS CORRESPONDS WITH BASEMENT LEVEL INDICATED IN ARCHITECTURAL PLANS.

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

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10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

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30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

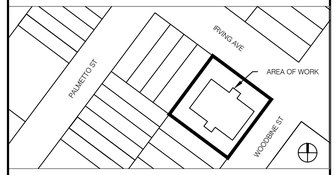
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/AV/IT:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

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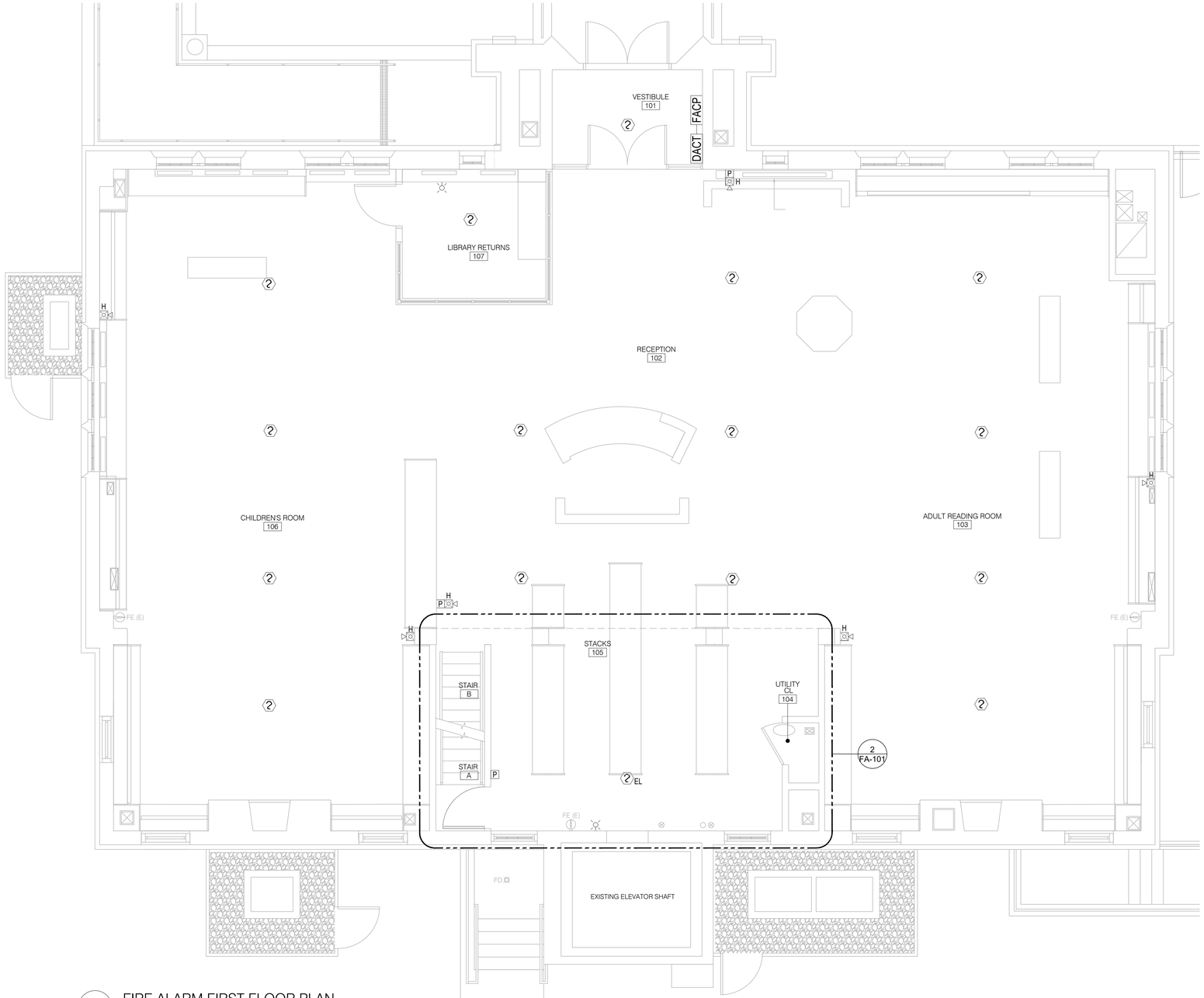
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FIRE ALARM GROUND FLOOR PLAN

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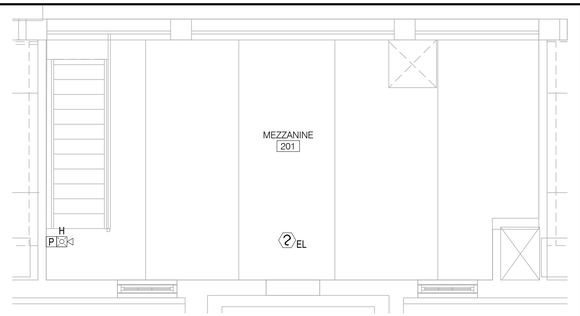
STATE OF NEW YORK · GREGORY E. MUELLER · 098569 · LICENSED PROFESSIONAL ENGINEER

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01 FIRE ALARM FIRST FLOOR PLAN

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



02 FIRE ALARM MEZZANINE PART PLAN

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

GENERAL NOTE:

1. NO CARBON MONOXIDE (CO) BURNING EQUIPMENT IS PRESENT ON THE BUILDING PREMISE.

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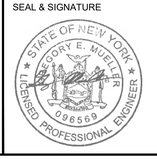
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FOR THE:
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FIRE ALARM FIRST FLOOR PLAN

SEAL & SIGNATURE



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DRAWINGLIST:

Sheet Number	Sheet Title
TY-000.00	SECURITY TITLE SHEET
TY-100.00	SECURITY SITE PLAN
TY-101.00	SECURITY OVERALL PLAN - BASEMENT
TY-102.00	SECURITY OVERALL PLAN - FIRST FLOOR
TY-201.00	SECURITY OVERALL RCP - BASMENT
TY-202.00	SECURITY OVERALL RCP - FIRST FLOOR
TY-300.00	SECURITY ENLARGED PLANS
TY-400.00	SECURITY RISERS
TY-401.00	SECURITY DETAILS
TY-402.00	SECURITY DETAILS - CAMERAS
TY-500.00	SECURITY DEVICE SCHEDULE
TY-501.00	SECURITY VIDEO SURVEILLANCE CAMERA SCHEDULE

ABBREVIATIONS:

A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAT	CATALOG
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
COND	CONDUCTOR
CU	COPPER
DVR	DIGITAL VIDEO RECORDER
DWG	DRAWING
EC	EMPTY CONDUIT
EM	EMERGENCY
EX	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
G	GROUND
HC	HUNG CEILING
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
LV	LOW VOLTAGE
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
No.	NUMBER
NTS	NOT TO SCALE
PA	PUBLIC ADDRESS
PNL	PANEL
POE	POWER OVER ETHERNET
PTZ	PAN/TILT/ZOOM
RM	ROOM
STP	SHIELDED TWISTED PAIR
TEL	TELECOMMUNICATIONS
TLR	TIME LAPSE RECORDER
TS	TAMPER SWITCH
TTB	TELECOMMUNICATIONS TERMINAL BOARD
TTC	TELECOMMUNICATIONS TERMINAL CABINET
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT-AMPERES
VM	VOLTMETER
VP	VAPOR PROOF
W	WATTS
WP	WATERPROOF
WT	WATERTIGHT
XFRM	TRANSFORMER

SECURITY ELECTRICAL NOTES:

(1)	RISER POWER (EMERGENCY CIRCUIT) ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4" X 4" BOX SURFACE MOUNTED 18" A.F.F. WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
(2)	ELEVATOR SECURITY EQUIPMENT POWER (NON-EMERGENCY CIRCUIT) ELECTRICAL CONTRACTOR SHALL PROVIDE A HARD WIRED CONNECTIONS TO A 120VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN THE ELEVATOR MACHINE ROOM(S) AS INDICATED ON THE DRAWINGS. TYPICAL LOAD FOR EACH CIRCUIT SHALL BE 10A. PROVIDE CONNECTION IN A SURFACE MOUNTED BOX MOUNTED AT 8' A.F.F. WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
(3)	ELEVATOR CAMERA POWER (NON-EMERGENCY CIRCUIT) ELEVATOR CONTRACTOR SHALL PROVIDE AN UN-SWITCHED DUPLEX OUTLET TO A 120VAC 20A NON-EMERGENCY CIRCUIT DEDICATED FOR THE SECURITY CAMERA. THE OUTLET SHALL BE MOUNTED ABOVE THE CAB AND PROVIDE ADEQUATE SPACE FOR A PLUG IN TYPE TRANSFORMER.
J	PROVIDE 4" X 4" X 2-1/4" DEEP BOX SURFACE MOUNTED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
J1	PROVIDE 6" X 6" X 4" DEEP BOX SURFACE MOUNTED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
J2	PROVIDE 10" X 10" X 4" DEEP BOX SURFACE MOUNTED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
J3	PROVIDE 12" X 12" X 6" DEEP BOX SURFACE MOUNTED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
J4	PROVIDE 16" X 16" X 8" DEEP BOX SURFACE MOUNTED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
J5	PROVIDE 20" X 20" X 8" DEEP BOX SURFACE MOUNTED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

SYMBOLS:

AC-X	ACCESS CONTROL READER
ACP	ACCESS CONTROL PANEL
ACS	ACCESS CONTROL SERVER
AN	ANNUNCIATOR
AP	ALARM PANEL
D	DOOR INTERLOCK
DU	DOOR INTERFACE UNIT
DR-X	DOOR RELEASE
DVR	DIGITAL VIDEO RECORDER
GB-X	GLASS BREAK SENSOR
HE	HEAD END MONITORING LOCATION
IC-X	INTERCOM
KP	ALARM KEYPAD
K	FIRE RELAY (FOR LOCK RELEASE)
LA	LOCAL ALARM
MC-X	MAGNETIC CONTACT
MD-X	MOTION DETECTOR
MH	MAGNETIC HOLD OPEN
MVR	VIDEO SURVEILLANCE
NVR	NETWORK VIDEO RECORDER
PB-X	PUSH BUTTON
SR	SECURITY RISERS LOCATION
S	SIREN/SOUNDER
VI-X	VIDEO INTERCOM
VE	VIDEO ENCODER
WS	WORKSTATION
ELP	LOCK POWER SUPPLY
PCP	CAMERA POWER SUPPLY
DPP	DEVICE POWER SUPPLY
C-X	CCTV CAMERA - FIXED
C-X	CCTV CAMERA - PTZ
	CCTV CAMERA - CEILING MOUNT
	CCTV CAMERA - WALL MOUNT
	CCTV CAMERA - CORNER MOUNT
	CCTV CAMERA - CORNER MOUNT

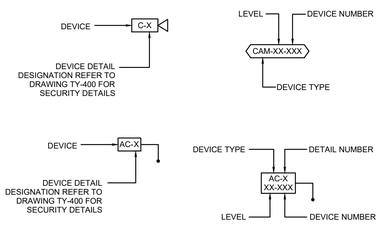
GENERAL NOTES:

1. DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE INTENDED TO REPRESENT OVERALL DESIGN INTENT.
2. ALL MOUNTING SPECIFICS SHALL BE AS INDICATED IN THE LEGEND UNLESS OTHERWISE NOTED IN THE SECURITY DRAWINGS. MOUNTING CONDITIONS IDENTIFIED ON THE SECURITY DRAWINGS SHALL TAKE PRECEDENCE OVER THE LEGEND DESCRIPTIONS.
3. VERIFY AND COORDINATE THE EXACT MOUNTING LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.
4. THE MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED.
5. THE SECURITY CONTRACTOR SHALL RESTORE CEILINGS, WALLS AND ANY OTHER SURFACES AFFECTED BY HIS/HER WORK WITH LIKE MATERIALS TO MATCH EXISTING CONSTRUCTION UPON COMPLETION OF HIS/HER WORK.
6. FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE SECURITY CONTRACTOR AS REQUIRED BY CODE.
7. ALL DEVICES, WIRING, TERMINATIONS AND OTHER REQUIRED ROUGH-IN NOT DESIGNATED "BY OTHERS" ARE TO BE PROVIDED BY THE SECURITY CONTRACTOR.
8. ALL NEW OPERABLE CONTROLS, SHALL BE INSTALLED WITHIN A PERMITTED REACH RANGE COMPLIANT WITH ADAAG SECTION 308, WHICH REQUIRES A MOUNTING HEIGHT OF 15" MINIMUM. TO 48" MAXIMUM. AFF MEASURE TO THE HIGHEST OPERABLE PART, AS TRIGGERED BY ADAAG SECTION 205 AND 309.

CONDUIT AND WIRING NOTES:

1. ALL CONDUIT AND BACKBOXES SHALL CONFORM TO BUILDING STANDARD ELECTRICAL SPECIFICATIONS. ALL CABLES SHALL BE PLENUM RATED WHERE REQUIRED.
2. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
3. ALL CONDUIT USED IN POTENTIALLY DAMP OR WET LOCATIONS, EXPOSED OUTDOORS OR IN HAZARDOUS AREAS SHALL BE INTERMEDIATE STEEL CONDUIT (IMC). ALL EXTERIOR CONDUIT IN SLAB SHALL BE PVC. ALL CONDUIT OTHER THAN SPECIFIED TO BE IMC OR PVC SHALL BE ELECTRICAL METALLIC TUBING (EMT).
4. ALL CONDUIT SHALL BE ROUTED ABOVE CEILINGS, BELOW FLOORS, OR WITHIN WALLS. NO CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT.
5. PROVIDE PULL STRINGS IN ALL CONDUIT AND PULLBOXES AS REQUIRED. ALL CONDUITS SHALL HAVE PLASTIC BUSHINGS INSTALLED AT OPEN ENDS PRIOR TO PULLING WIRE.
6. ALL BACKBOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
7. ALL BACKBOXES MOUNTED WITHIN FIRE RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.
8. COORDINATE THE EXACT LOCATION OF ALL PULL AND BACKBOXES WITH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL JUNCTION AND PULLBOXES SHALL BE PROVIDED WITH ACCOMPANYING BLANK COVER PLATE.
10. JUNCTION BOXES LOCATED ABOVE DOORS WITH NO ACCESSIBLE CEILING SHALL BE SECURED WITH TAMPER PROOF SCREWS.
11. PROVIDE WATERTIGHT SEALING ASSEMBLIES WITH PRESSURE BUSHING AS REQUIRED FOR EXTERIOR PENETRATIONS.
12. JUNCTION AND PULLBOXES IN EXTERIOR LOCATIONS SHALL BE WATERPROOF.
13. ALL CABLE RUNS IN CEILING AREAS WHERE CONDUIT OR CABLE TRAY IS NOT SPECIFIED SHALL BE SUPPORTED WITH SIMILAR SUPPORT, OR WITH THE USE OF J-HOOKS AT 5' INTERVALS ABOVE CEILING TILES.
14. COORDINATE WITH ELECTRICAL CONTRACTOR FOR SECURITY DEVICE AND CONTROL PANEL POWER REQUIREMENTS.
15. WIRE SHEATH SHALL BE MAINTAINED TO FINAL TERMINATION. ALL TERMINATIONS SHALL MAINTAIN TWIST OF INDIVIDUAL PAIRS TO WITHIN 0.5" OR LESS OF FINAL TERMINATION. ALL WIRES SHALL BE LABELED WITHIN 6.5" OF FINAL TERMINATION. ALL LABELS SHALL BE MACHINE PRINTED OR STENCILED. NO HAND LETTERED LABELS SHALL BE USED.
16. ANY CONDUIT ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO REPRESENT INSTALLED PATHS OR DISTANCES. ACTUAL ROUTING AND BOX LOCATIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH OTHER DISCIPLINES BY THE INSTALLING CONTRACTOR.

EQUIPMENT SYMBOL & TAG DEFINITIONS:



SECURITY DEVICE NOTES:

1. ALL DEVICES, WIRING, TERMINATION AND OTHER REQUIRED ROUGH-IN NOT DESIGNATED "AS BY OTHERS", ARE TO BE PROVIDED BY THE SECURITY CONTRACTOR.
2. ALL SECURITY DEVICES PROVIDED BY THE SECURITY CONTRACTOR. NOTES BELOW INDICATE WORK BY THE EC.
3. PROVIDE 4" X 4" X 2-1/4" DEEP BOX WITH SINGLE GANG DEVICE RING JB FLUSH MOUNTED 48" A.F.F TO TOP OF BOX WITH 3 /4" CONDUIT STUB-UP TO J1 BY EC.
4. STUB 3/4" CONDUIT OR GREENFIELD DOWN DOOR FRAME ON THE HINGE SIDE OF THE DOOR BACK BOX EL TO JUNCTION BOX J1 LOCATED ABOVE ACCESSIBLE CEILING, BY EC.
5. STUB 3/4" CONDUIT OR GREENFIELD DOWN DOOR FRAME ON THE STRIKE SIDE OF THE DOOR FROM THE ELECTRIFIED LOCK TO THE JUNCTION BOX J1 LOCATED ABOVE ACCESSIBLE CEILING, BY EC.

DOB APPROVAL STAMP

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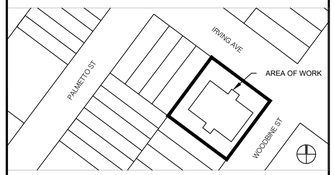
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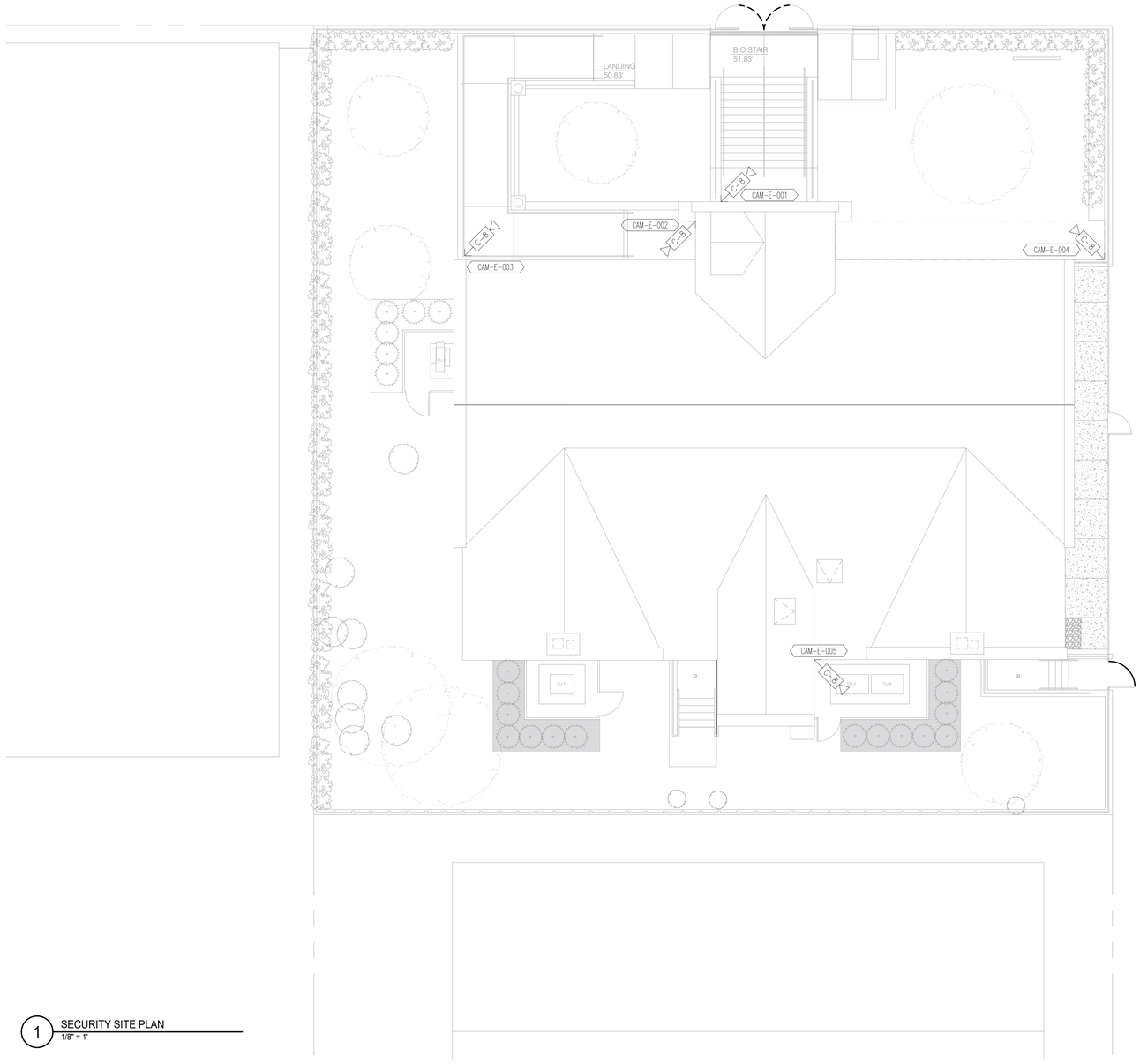
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SECURITY TITLE SHEET

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1 SECURITY SITE PLAN
1/8" = 1'

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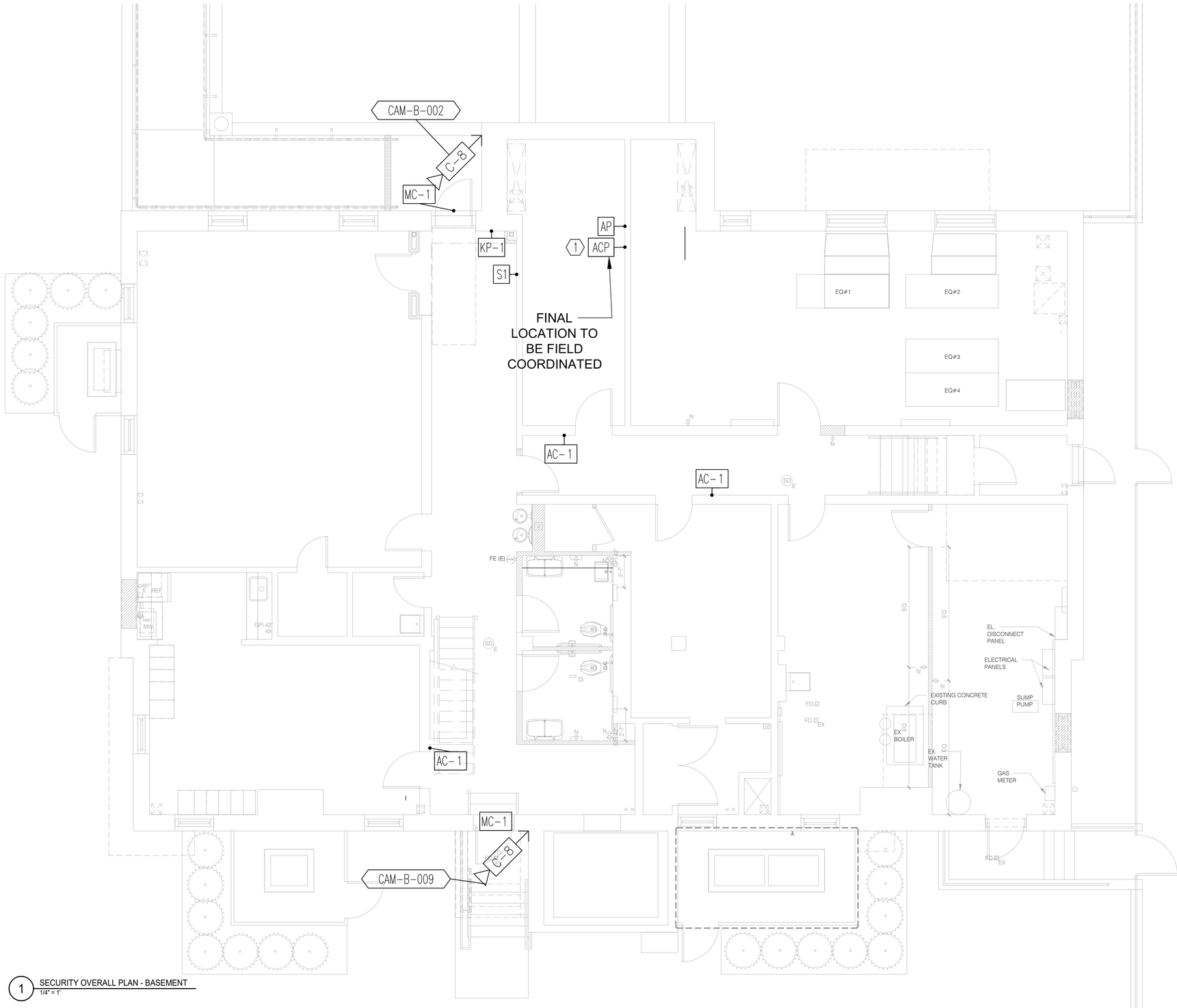
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1 SECURITY OVERALL PLAN - BASEMENT
1/4" = 1'

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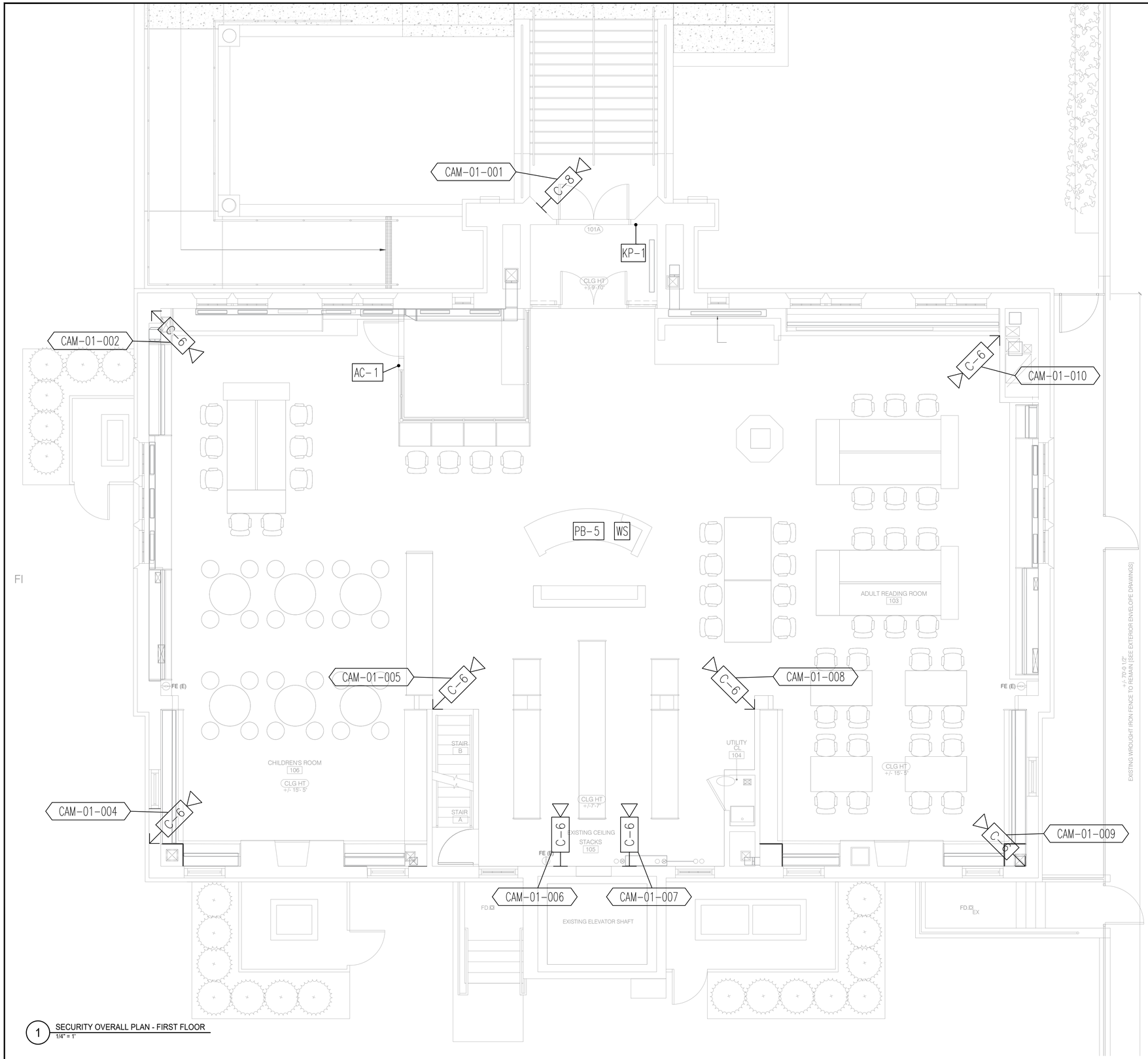
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FI

1 SECURITY OVERALL PLAN - FIRST FLOOR
1/4" = 1'

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

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WASHINGTON IRVING BRANCH LIBRARY RENOVATION
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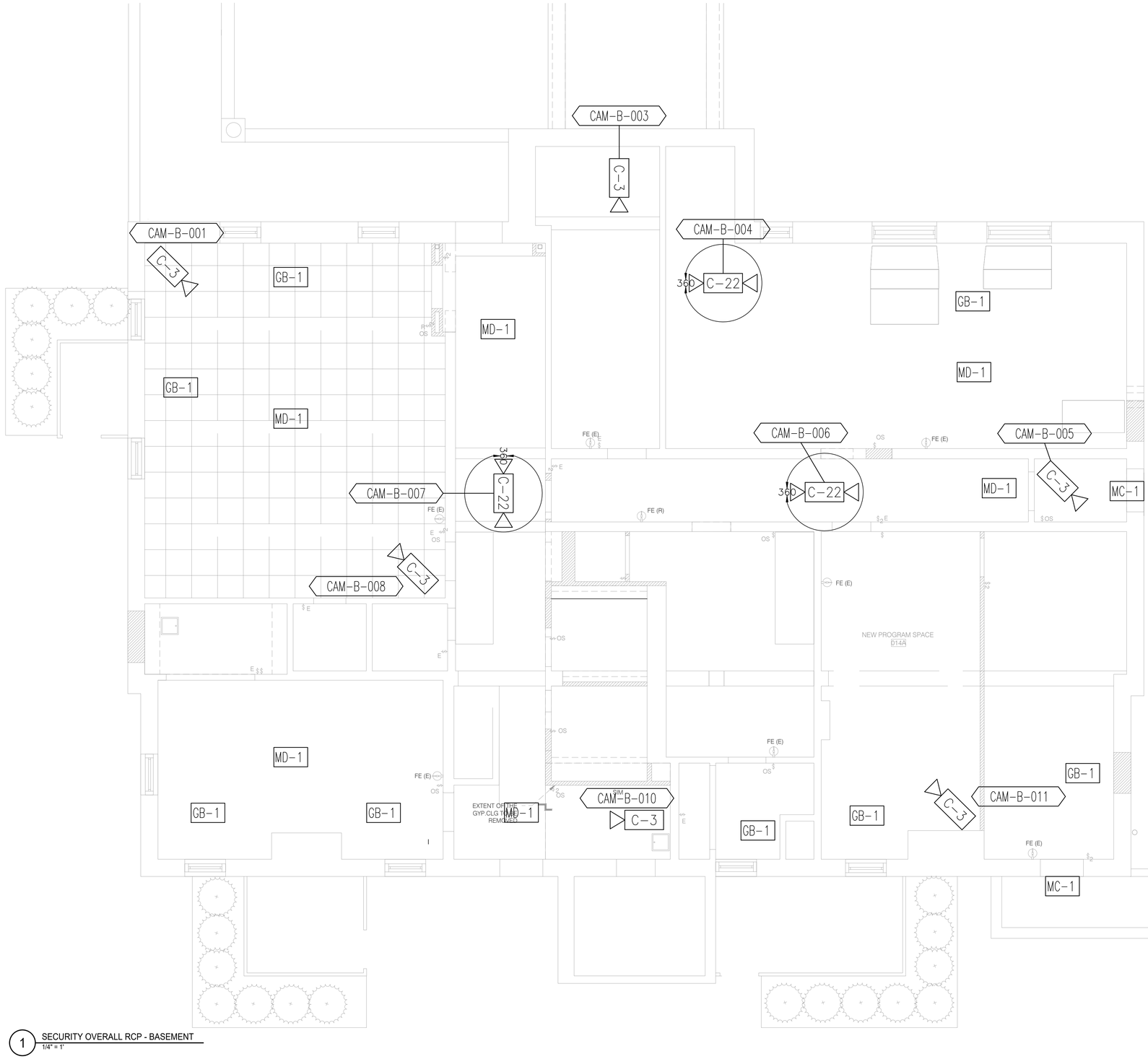
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
SECURITY OVERALL PLAN - FIRST FLOOR

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1 SECURITY OVERALL RCP - BASEMENT
1/4" = 1'

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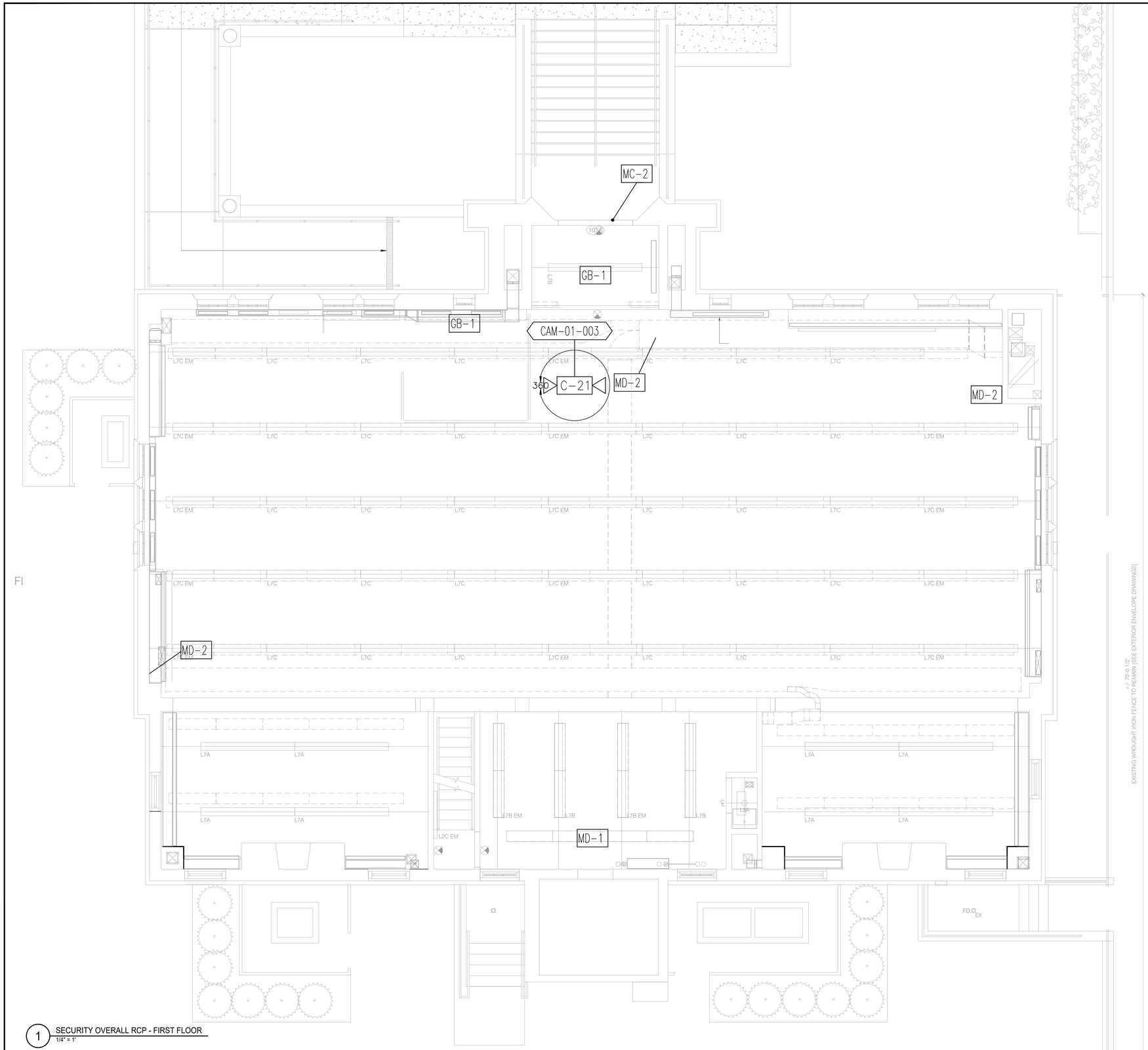
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360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237
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1 SECURITY OVERALL RCP - FIRST FLOOR
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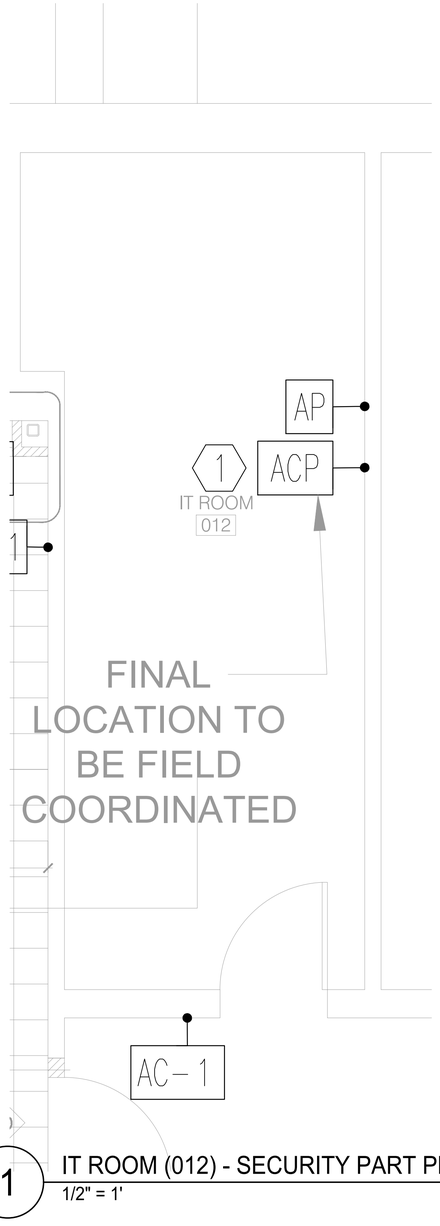
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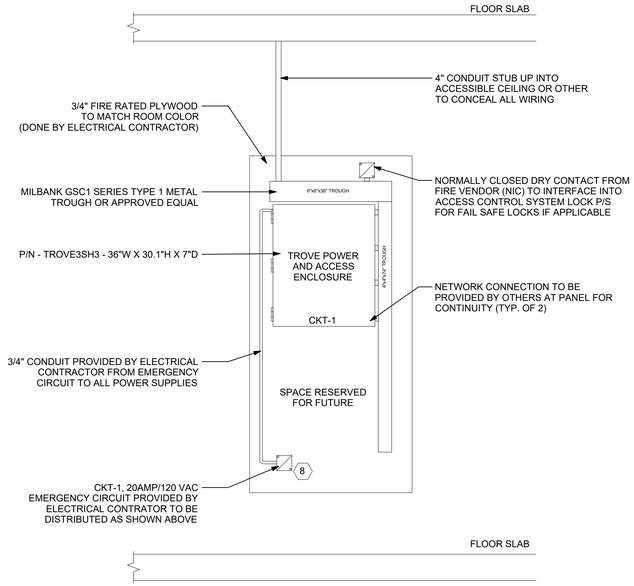
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1 IT ROOM (012) - SECURITY PART PLAN
1/2" = 1'



ACP	TYPICAL SECURITY WALL FIELD ELEVATION

WALLFIELD NOTES

1. DO NOT ENTER BOTTOM KNOCKOUT OF ANY SECURITY ENCLOSURE AS THIS INTERFERES WITH THE PLACEMENT OF THE BATTERIES.
2. PROVIDE A 4" METAL TROUGH WITH COVER, MOUNTED VERTICALLY, CENTERED ON THE PLYWOOD, FROM 12" AFF TO CEILING LINE. PROVIDE KNOCKOUTS AND COUPLERS TO MATCH THE LAYOUT AS SHOWN.
3. BRING CAT 6 CABLE (OR LONG ENOUGH PATCH CORD IF INSIDE AN IDF) AND MOUNT AN RJ-45 BISCUIT INSIDE OR NEAR THE ACCESS CONTROL PANEL. COORDINATE THIS TERMINATION WITH NETWORK VENDOR.
4. COORDINATE AND PROVIDE ONE SET OF NORMALLY CLOSED DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR). MORE THAN ONE SET OF FIRE OUTPUT MAYBE REQUIRED PER CLOSET.
5. THE CONNECTIONS BETWEEN ALL PANELS AND THROUGHS SHOULD BE CHASE NIPPLES AND RIGID COUPLINGS WITH PLASTIC BUSHINGS.
6. INSTALL TAMPER SWITCHES AND WIRE PANELS IN SERIES TO DESIGNATED INPUTS SHOWN ON POINT TO POINT TERMINATION TABLES.
7. ALL CONDUITS AND CONNECTIONS AS IT RELATES TO 120VAC SHALL BE INSTALLED TO REQUIRED PANELS AS NEEDED PER CIRCUIT INDICATED AND PROVIDED.

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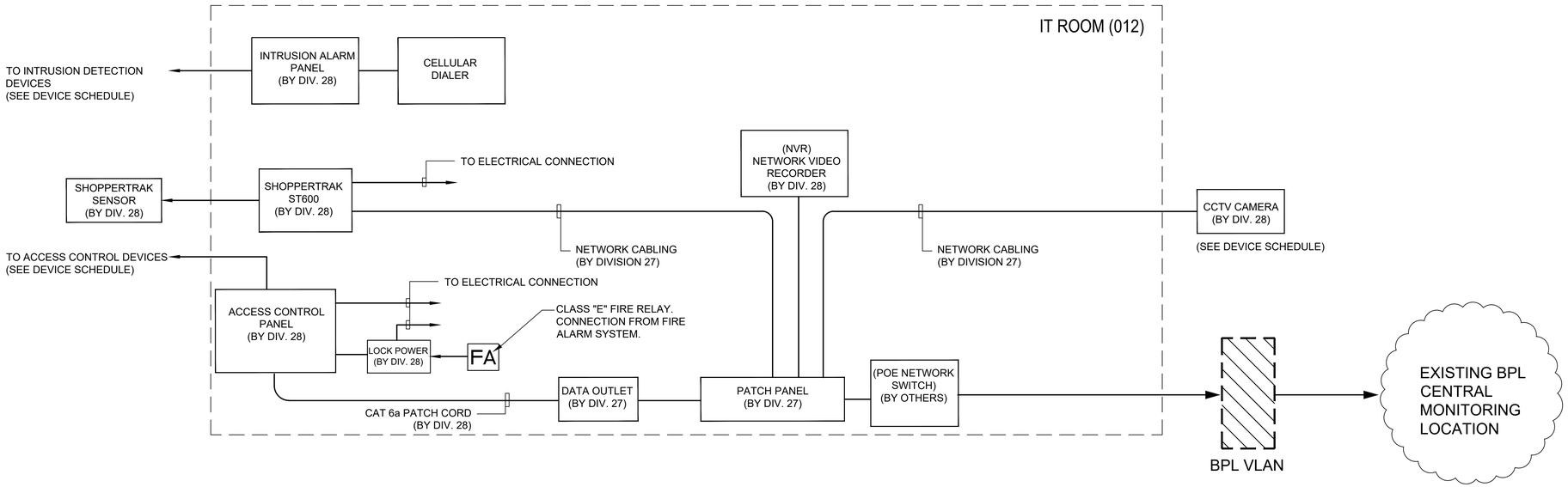
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OF



1 SECURITY ACCESS CONTROL PANEL / SECURITY VIDEO SURVEILLANCE BLOCK DIAGRAM
SCALE: NTS

GENERAL NOTE:

1. REFER TO TELECOMMUNICATIONS PACKAGE FOR ALL VERTICAL PATHWAY INFRASTRUCTURE SIZE AND ROUTING.

2. REFER TELECOM FIT OUT DRAWINGS FOR HORIZONTAL NETWORK DATA PATHWAYS, DATA OUTLETS, AND NETWORKING EQUIPMENT.

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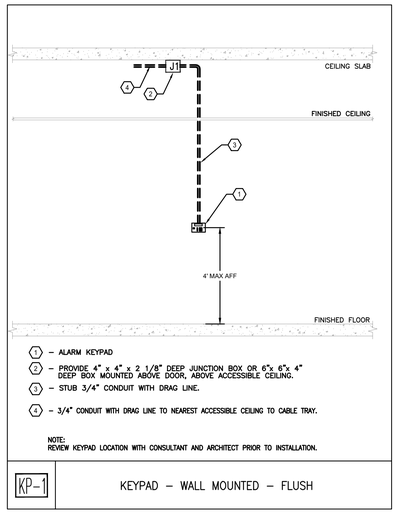
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WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
SECURITY RISERS

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DATE: 03.11.2024
PROJECT NO: LBP21WIBR
DRAWN BY: JB
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OF



① – ALARM KEYPAD

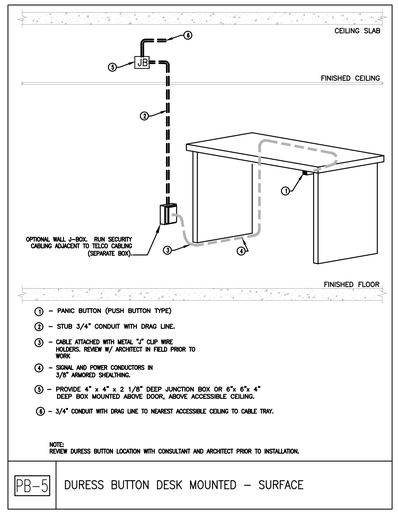
② – PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX OR 6"x 6"x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.

③ – STUB 3/4" CONDUIT WITH DRAG LINE.

④ – 3/4" CONDUIT WITH DRAG LINE TO NEAREST ACCESSIBLE CEILING TO CABLE TRAY.

NOTE:
REVIEW KEYPAD LOCATION WITH CONSULTANT AND ARCHITECT PRIOR TO INSTALLATION.

KP-1 | KEYPAD – WALL MOUNTED – FLUSH



① – PANIC BUTTON (PUSH BUTTON TYPE)

② – STUB 3/4" CONDUIT WITH DRAG LINE.

③ – CABLE ATTACHED WITH METAL "J" CLIP WIRE HOLDERS. REVIEW W/ ARCHITECT IN FIELD PRIOR TO WORK.

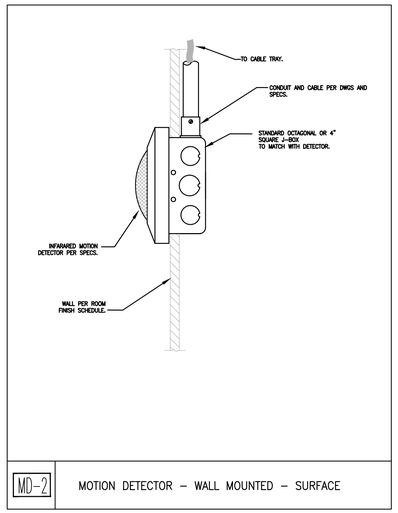
④ – SIGNAL AND POWER CONDUCTORS IN 3/8" ARMORED SHEATHING.

⑤ – PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX OR 6"x 6"x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.

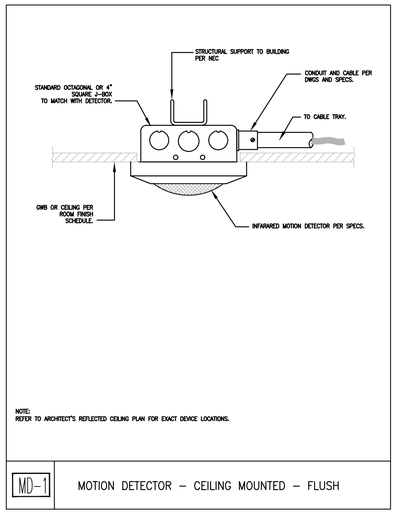
⑥ – 3/4" CONDUIT WITH DRAG LINE TO NEAREST ACCESSIBLE CEILING TO CABLE TRAY.

NOTE:
REVIEW DURESS BUTTON LOCATION WITH CONSULTANT AND ARCHITECT PRIOR TO INSTALLATION.

PB-5 | DURESS BUTTON DESK MOUNTED – SURFACE

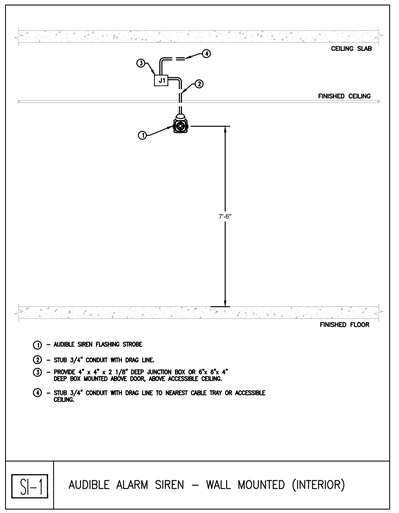


MD-2 | MOTION DETECTOR – WALL MOUNTED – SURFACE



NOTE:
REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT DEVICE LOCATIONS.

MD-1 | MOTION DETECTOR – CEILING MOUNTED – FLUSH



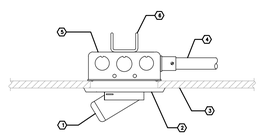
① – AUDIBLE SIREN FLASHING STROBE

② – STUB 3/4" CONDUIT WITH DRAG LINE.

③ – PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX OR 6"x 6"x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.

④ – STUB 3/4" CONDUIT WITH DRAG LINE TO NEAREST CABLE TRAY OR ACCESSIBLE CEILING.

SI-1 | AUDIBLE ALARM SIREN – WALL MOUNTED (INTERIOR)



NOTE:

1. INSTALL DEVICE PER ARCHITECT'S REFLECTED CEILING PLAN

DETAIL NOTES:

① - FACE GLASS TO BE PROTECTED

② - MANUFACTURE'S PROPRIETARY CEILING MOUNT PLATE FITS STANDARD DOUBLE GANG BOX

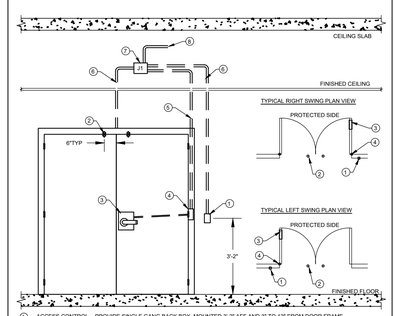
③ - SUSPENDED CEILING PER ARCH. DWGS

④ - CONDUIT PER DWGS

⑤ - STANDARD 4" SQ. OR 4 11/16" DOUBLE GANG "D" BOX WITH DOUBLE GANG MUD RING SECURED TO CEILING SUSPENSION SYSTEM

⑥ - STRUCTURAL SUPPORT TO BUILDING PER NEC.

GB-1 | GLASS BREAK DETECTOR - CEILING MOUNTED - FLUSH



① - ACCESS CONTROL - PROVIDE SINGLE GANG BACK BOX, MOUNTED 3'-2" AFF AND 3" TO 12" FROM DOOR FRAME DEPENDING ON FIELD CONDITIONS

② - DOOR CONTACT (RECESSED)

③ - ELECTRIFIED MORTISE LOCK, FREE EGRESS (W/REQUEST TO EXIT)

④ - WIRE TRANSFER HINGE

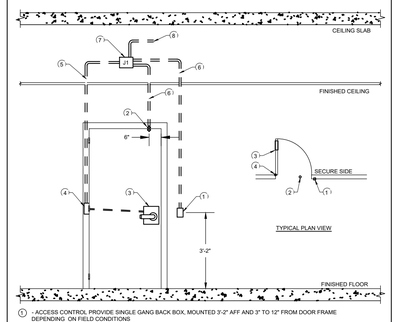
⑤ - STUB 3/4" CONDUIT OR GREENFIELD WITH DRAG LINE DOWN DOOR FRAME ON HINGE SIDE OF THE DOOR. BACK BOX TO JUNCTION BOX

⑥ - STUB 3/4" CONDUIT WITH DRAG LINE.

⑦ - PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX OR 6"x 6"x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.

⑧ - 3/4" CONDUIT WITH DRAG LINE TO NEAREST ACCESSIBLE CEILING TO CABLE TRAY.

AC-2 | ACCESS CONTROL - DOUBLE DOOR - CARD READER, ELECTRIFIED MORTISE LOCK, DOOR POSITION SWITCH



① - ACCESS CONTROL, PROVIDE SINGLE GANG BACK BOX, MOUNTED 3'-2" AFF AND 3" TO 12" FROM DOOR FRAME DEPENDING ON FIELD CONDITIONS

② - DOOR CONTACT (RECESSED)

③ - ELECTRIFIED MORTISE LOCK, FREE EGRESS (INTERGRATED REQUEST TO EXIT)

④ - WIRE TRANSFER HINGE

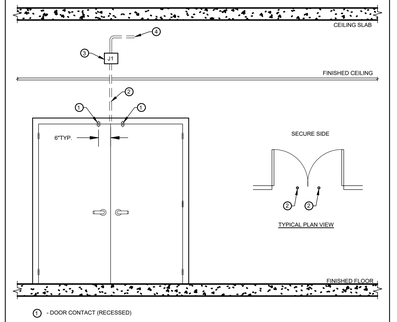
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⑥ - STUB 3/4" CONDUIT WITH DRAG LINE.

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⑧ - 3/4" CONDUIT WITH DRAG LINE TO NEAREST ACCESSIBLE CEILING TO CABLE TRAY

AC-1 | ACCESS CONTROL - SINGLE DOOR - CARD READER, ELECTRIFIED MORTISE LOCK, DOOR POSITION SWITCH



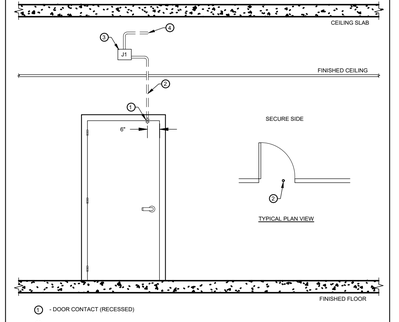
① - DOOR CONTACT (RECESSED)

② - STUB 3/4" CONDUIT WITH DRAG LINE.

③ - PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX OR 6"x 6"x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.

④ - STUB 3/4" CONDUIT WITH DRAG LINE TO NEAREST CABLE TRAY OR ACCESSIBLE CEILING.

MC-2 | MAGNETIC CONTACT - DOUBLE DOOR - FLUSH MOUNTED



① - DOOR CONTACT (RECESSED)

② - STUB 3/4" CONDUIT WITH DRAG LINE.

③ - PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX OR 6" x 6" x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.

④ - STUB 3/4" CONDUIT WITH DRAG LINE TO NEAREST CABLE TRAY OR ACCESSIBLE CEILING.

MC-1 | MAGNETIC CONTACT - SINGLE DOOR - FLUSH MOUNTED

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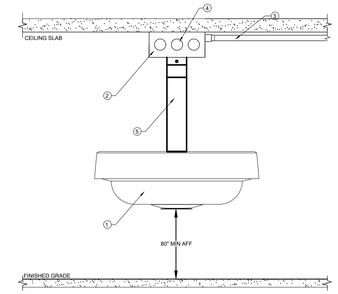
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CAD FILE No:	OF

VIDEO SURVEILLANCE- MULTIDIRECTIONAL IP DOME - INTERIOR - CEILING PENDANT POLE MOUNT

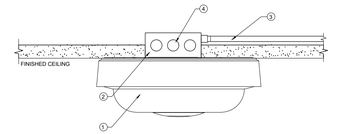


DETAIL NOTES:

1. MULTI-DIRECTIONAL (360) POE DOME CAMERA - CEILING MOUNTED
2. BACK BOX (J), BACK BOX TO BE SECURED TO STRUCTURE.
3. 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING AND LOW VOLTAGE CABLE PATHWAY.
4. HORIZONTAL 4-PAIR UTP CABLE
5. CAMERA PENDANT MOUNT - LENGTH OF MOUNT SHALL BE FIELD DETERMINED, CAMERA LENS SHALL BE FREE OF ANY OBSTRUCTED VIEWS FROM MEP, STRUCTURE, LIGHTING.

C-22 DEVICE SYMBOL: C-22

VIDEO SURVEILLANCE - MULTIDIRECTIONAL IP DOME - INTERIOR - HARD CEILING SURFACE MOUNT

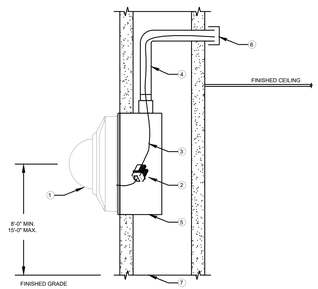


DETAIL NOTES:

1. MULTI-DIRECTIONAL (360) POE DOME CAMERA - CEILING MOUNTED
2. BACK BOX (J), BACK BOX TO BE SECURED TO STRUCTURE.
3. 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING AND LOW VOLTAGE CABLE PATHWAY.
4. HORIZONTAL 4-PAIR UTP CABLE

C-21 DEVICE SYMBOL: C-21

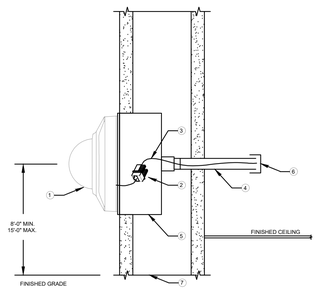
FIELD CONDITION "A"



DETAIL NOTES:

1. FIXED POE DOME CAMERA IN ENVIRONMENTAL HOUSING
2. TELECOM OUTLET 8 PIN JACK
3. HORIZONTAL 4-PAIR UTP CABLE
4. 3/4" EMT CONDUIT
5. BACK BOX (J#), BACK BOX TO BE SECURED TO STRUCTURE.
6. 3/4" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR CABLE TRAY (BY ELECTRICAL CONTRACTOR).
7. WALL ASSEMBLY

FIELD CONDITION "B"

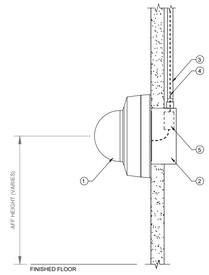


DETAIL NOTES:

1. FIXED POE DOME CAMERA IN ENVIRONMENTAL HOUSING
2. TELECOM OUTLET 8 PIN JACK
3. HORIZONTAL 4-PAIR UTP CABLE
4. 3/4" EMT CONDUIT
5. BACK BOX (J#), BACK BOX TO BE SECURED TO STRUCTURE.
6. 3/4" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING OR CABLE TRAY (BY ELECTRICAL CONTRACTOR).
7. WALL ASSEMBLY

C-8 VIDEO SURVEILLANCE - FIXED IP DOME - WALL SURFACE MOUNTED - EXTERIOR

VIDEO SURVEILLANCE - FIXED DOME - INTERIOR - WALL SURFACE MOUNT



DETAIL NOTES:

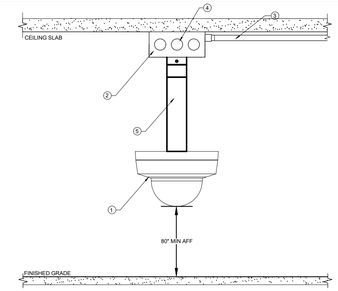
1. FIXED DOME CAMERA (SURFACE MOUNTED)
2. BACK BOX (J#), BACK BOX TO BE SECURED TO STRUCTURE
3. 3/4" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING
4. HORIZONTAL 4-PAIR UTP CABLE
5. MODULAR TERMINATION BOX - RJ45 JACK, SEE (PDE-1) WIRING DIAGRAM

GENERAL NOTES:

- REFER TO SPECIFICATION 28 23 29 FOR CAMERA MODEL REQUIREMENTS.
- REFER TO CONTRACTORS RESPONSIBILITY LEGEND ON TY-001.
- REFER TO DORI CHART FOR CAMERA VIEW REQUIREMENTS AS INDICATED IN VIDEO SURVEILLANCE SCHEDULE.
- REFER TO SECURITY DRAWINGS (FLOOR PLAN AND SCHEDULE) FOR MOUNTING HEIGHT.
- SECURE CAMERA TO BACK BOX.

C-6 DEVICE SYMBOL: C-6

VIDEO SURVEILLANCE- FIXED DOME - INTERIOR - CEILING PENDANT POLE MOUNT

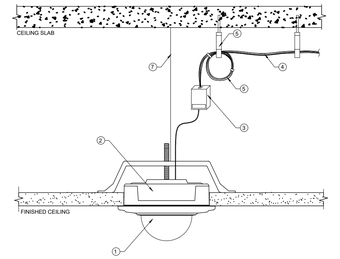


DETAIL NOTES:

1. FIXED DOME CAMERA.
2. BACK BOX (J), BACK BOX TO BE SECURED TO STRUCTURE.
3. 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING AND LOW VOLTAGE CABLE PATHWAY.
4. HORIZONTAL 4-PAIR UTP CABLE
5. CAMERA PENDANT MOUNT - LENGTH OF MOUNT SHALL BE FIELD DETERMINED, CAMERA LENS SHALL BE FREE OF ANY OBSTRUCTED VIEWS FROM MEP, STRUCTURE, LIGHTING.

C-3 DEVICE SYMBOL: C-3

VIDEO SURVEILLANCE - FIXED DOME - INTERIOR - CEILING RECESSED MOUNT



DETAIL NOTES:

1. FIXED DOME CAMERA
2. RECESSED MOUNT FOR FLUSH MOUNT INSTALLATION
3. MODULAR TERMINATION BOX - RJ45 JACK, SEE (PDE-1) WIRING DIAGRAM
4. HORIZONTAL 4-PAIR UTP CABLE
5. PROVIDE 10' OF CABLE SLACK, COILED AND SECURED TO NEAREST SUPPORT
6. J-HOOK
7. SUSPENTION CABLES FOR SEISMIC AND SAFETY BACK BOX MOUNTING SUPPOT

GENERAL NOTES:

- REFER TO SPECIFICATION 28 23 29 FOR CAMERA MODEL REQUIREMENTS.
- REFER TO CONTRACTORS RESPONSIBILITY LEGEND ON TY-001.
- REFER TO DORI CHART FOR CAMERA VIEW REQUIREMENTS AS INDICATED IN VIDEO SURVEILLANCE SCHEDULE.

C-1 DEVICE SYMBOL: C-1

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



01 2024.11.15 75% CD SUBMISSION

NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

SECURITY DETAILS - CAMERAS

SEAL & SIGNATURE

DATE: 03.11.2024
PROJECT NO: LBP21WIBR
DRAWN BY: JB
CHECKED BY: LG
DRAWING NUMBER:
TY-402.00
CAD FILE No:
OF

Brooklyn Public Library Washington Irving Branch

Security Drawing	Floor	Room Number	Room	Door Number	Device Symbol/Detail	Security Devices										Electric Mortise	X-fer Hinge	Request-to-Exit			Connectivity			Fail Safe	Intrusion zone	Termination Point	Notes
						Access Control	Magnetic Contact		Intercom		Intrusion System										Power	Relay	Data				
						Proximity	Conceal	Surface	Sub-station	Master	Panic Button	Keypad	Siren	Motion Detector	Alarm Panel / Dialer			In Lock	Motion	Glass Break	120V Circuit	Fire Alarm	Cat6				
TY-101	BASEMENT	012	IT ROOM		AC-1	1	1									1	1	1								IT ROOM (012)	
TY-101	BASEMENT	011	WORK ROOM		AC-1	1	1									1	1	1								IT ROOM (012)	
TY-101	BASEMENT	006	STAFF ROOM		AC-1	1	1									1	1	1								IT ROOM (012)	
TY-101	BASEMENT	004	REAR ENTRANCE		AC-1	1	1									1	1	1								IT ROOM (012)	
TY-101	BASEMENT	012	IT ROOM		ACP																2					IT ROOM (012)	ACCESS CONTROL PANEL
TY-101	BASEMENT	012	IT ROOM		AP										1										YES	IT ROOM (012)	ALARM PANEL
TY-101	BASEMENT	006	STAFF ROOM		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	006	STAFF ROOM		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	010	COMMUNITY ROOM		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	010	COMMUNITY ROOM		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	011	WORK ROOM		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	013	EQUIPMENT ROOM		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	014	ELECTRICAL ROOM		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	014A	NEW PROGRAM SPACE		GB-1															1					YES	IT ROOM (012)	
TY-101	BASEMENT	001	CORRIDOR		KP-1							1													YES	IT ROOM (012)	
TY-101	BASEMENT	004	HALL		KP-1							1													YES	IT ROOM (012)	
TY-101	BASEMENT	003	VESTIBULE		MC-1			1																	YES	IT ROOM (012)	DPDT DOOR CONTACT - TERMINATED TO ALARM SYSTEM AND ACCCESS CONTROL SYSTEM
TY-101	BASEMENT	014A	NEW PROGRAM SPACE		MC-1			1																	YES	IT ROOM (012)	DPDT DOOR CONTACT - TERMINATED TO ALARM SYSTEM AND ACCCESS CONTROL SYSTEM
TY-101	BASEMENT	001	ENTRY DOOR		MC-1		1																		YES	IT ROOM (012)	DPDT DOOR CONTACT - TERMINATED TO ALARM SYSTEM AND ACCCESS CONTROL SYSTEM
TY-101	BASEMENT	-	STAIR F		MC-1		1																		YES	IT ROOM (012)	DPDT DOOR CONTACT - TERMINATED TO ALARM SYSTEM AND ACCCESS CONTROL SYSTEM
TY-101	BASEMENT	-	STAIR D		MC-1		1																		YES	IT ROOM (012)	DPDT DOOR CONTACT - TERMINATED TO ALARM SYSTEM AND ACCCESS CONTROL SYSTEM
TY-101	BASEMENT	001	CORRIDOR		MD-1									1											YES	IT ROOM (012)	
TY-101	BASEMENT	002	HALL		MD-1									1											YES	IT ROOM (012)	
TY-101	BASEMENT	004	HALL		MD-1									1											YES	IT ROOM (012)	
TY-101	BASEMENT	006	STAFF ROOM		MD-1									1											YES	IT ROOM (012)	
TY-101	BASEMENT	010	COMMUNITY ROOM		MD-1									1											YES	IT ROOM (012)	
TY-101	BASEMENT	013	EQUIPMENT ROOM		MD-1									1											YES	IT ROOM (012)	
TY-101	BASEMENT	001	CORRIDOR		S1								1												YES	IT ROOM (012)	
TY-102	FIRST FLOOR	-	STAIR A		AC-1	1	1									1	1	1								IT ROOM (012)	
TY-102	FIRST FLOOR	107	LIBRARY RETURNS		AC-1	1	1									1	1	1								IT ROOM (012)	
TY-102	FIRST FLOOR	101	MAIN ENTRY	101A	MC-2	1	1									1	1	1							YES	IT ROOM (012)	DPDT DOOR CONTACT - TERMINATED TO ALARM SYSTEM AND ACCCESS CONTROL SYSTEM
TY-102	FIRST FLOOR	101	VESTIBULE		KP-1							1													YES	IT ROOM (012)	
TY-102	FIRST FLOOR	101	VESTIBULE		GB-1														1						YES	IT ROOM (012)	
TY-102	FIRST FLOOR	107	LIBRARY RETURNS		GB-1														1						YES	IT ROOM (012)	
TY-102	FIRST FLOOR	105	STACKS		MD-1									1											YES	IT ROOM (012)	
TY-102	FIRST FLOOR	106	CHILDREN'S ROOM		MD-2									1											YES	IT ROOM (012)	
TY-102	FIRST FLOOR	102	RECEPTION		MD-2									1											YES	IT ROOM (012)	
TY-102	FIRST FLOOR	103	ADULT READING ROOM		MD-2									1											YES	IT ROOM (012)	
TY-102	FIRST FLOOR	102	RECEPTION		PB-5						1														YES	IT ROOM (012)	

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
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350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

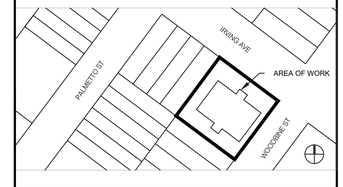
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
SECURITY DEVICE SCHEDULE

SEAL & SIGNATURE

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	JB
CHECKED BY:	LG
DRAWING NUMBER:	TY-500.00
CAD FILE No:	OF

PROJECT - WASHINGTON IRVINE PUBLIC LIBRARY

Security Drawing	Floor	Room Number	Room	Detail #	Camera ID#	Camera					Location								Connectivity	Termination Point	Camera Make	Camera Model	Camera Accessories	Notes
						Type		Housing			Placement					Mount Type									
						Fix	Multi-Sensor / 360	Dome	Enviro	Vandal	Wall	Ceiling	Corner	Pole	Outdoor	Flush	Surface	Pend	Data					
TY-101	BASEMENT	010	COMMUNITY ROOM	C-3	CAM-B-001	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	PENDANT NPT MOUNT SRXE4-PM-1E + SP99-321 POLE MOUNTED
TY-101	BASEMENT	-	-	C-8	CAM-B-002	1		1			1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
TY-101	BASEMENT	012	IT ROOM	C-3	CAM-B-003	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-101	BASEMENT	013	NEW PROGRAM SPACE	C-22	CAM-B-004	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SMLE1-20V5-4H	PER INSTALLATION DETAIL	PENDANT NPT MOUNT NPTA-1001 + SP99-321 POLE MOUNTED
TY-101	BASEMENT	003	VESTIBULE	C-3	CAM-B-005	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	PENDANT NPT MOUNT SRXE4-PM-1E + SP99-321 POLE MOUNTED
TY-101	BASEMENT	002	HALL	C-22	CAM-B-006	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SMLE1-20V5-4H	PER INSTALLATION DETAIL	PENDANT NPT MOUNT NPTA-1001 + SP99-321 POLE MOUNTED
TY-101	BASEMENT	001	CORRIDOR	C-22	CAM-B-007	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SMLE1-20V5-4H	PER INSTALLATION DETAIL	PENDANT NPT MOUNT NPTA-1001 + SP99-321 POLE MOUNTED
TY-101	BASEMENT	010	COMMUNITY ROOM	C-3	CAM-B-008	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	PENDANT NPT MOUNT SRXE4-PM-1E + SP99-321 POLE MOUNTED
TY-101	BASEMENT	-	STAIR D	C-8	CAM-B-009	1		1			1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
TY-101	BASEMENT	005	LOBBY	C-3	CAM-B-010	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	PENDANT NPT MOUNT SRXE4-PM-1E + SP99-321 POLE MOUNTED
TY-101	BASEMENT	014A	NEW PROGRAM SPACE	C-3	CAM-B-011	1		1				1								SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	PENDANT NPT MOUNT SRXE4-PM-1E + SP99-321 POLE MOUNTED
TY-102	FIRST FLOOR	-	-	C-8	CAM-1-001	1		1			1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
TY-102	FIRST FLOOR	106	CHILDREN'S ROOM	C-6	CAM-1-002	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-102	FIRST FLOOR	102	RECEPTION	C-21	CAM-1-003	1						1								SEE TELECOM DRAWINGS	PELCO	PELCO SMLE1-20V5-4H	PER INSTALLATION DETAIL	
TY-102	FIRST FLOOR	106	CHILDREN'S ROOM	C-6	CAM-1-004	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-102	FIRST FLOOR	102	RECEPTION	C-6	CAM-1-005	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-102	FIRST FLOOR	102	RECEPTION	C-6	CAM-1-006	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-202	FIRST FLOOR	102	RECEPTION	C-6	CAM-1-007	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-202	FIRST FLOOR	102	RECEPTION	C-6	CAM-1-008	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-202	FIRST FLOOR	103	ADULT READING ROOM	C-6	CAM-1-009	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-202	FIRST FLOOR	103	ADULT READING ROOM	C-6	CAM-1-010	1					1									SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-4V9-IMDIR1	PER INSTALLATION DETAIL	
TY-100	FIRST FLOOR	-	EXTERIOR	C-8	CAM-E-001	1										1				SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
TY-100	FIRST FLOOR	-	EXTERIOR	C-8	CAM-E-002	1										1				SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
TY-100	FIRST FLOOR	-	EXTERIOR	C-8	CAM-E-003	1										1				SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
TY-100	FIRST FLOOR	-	EXTERIOR	C-8	CAM-E-004	1										1				SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
TY-100	FIRST FLOOR	-	EXTERIOR	C-8	CAM-E-005	1										1				SEE TELECOM DRAWINGS	PELCO	PELCO SRXE4-6V9-EMDIR1	PER INSTALLATION DETAIL	
		Total:				**26**	**0**	**12**	**0**	**0**	**11**	**10**	**0**	**0**	**0**	**0**	**5**	**0**	**0**					

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
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LANDSCAPE ARCHITECT:
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32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

SECURITY VIDEO SURVEILLANCE CAMERA SCHEDULE

SEAL & SIGNATURE

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	JB
CHECKED BY:	LG
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DRAWINGLIST:

Sheet Number	Sheet Title
TT-000.00	TELECOM TITLE SHEET
TT-001.00	TELECOM SYMBOLS
TT-101.00	TELECOM OVERALL PLAN - BASEMENT
TT-102.00	TELECOM OVERALL PLAN - FIRST FLOOR
TT-201.00	TELECOM OVERALL RCP - BASEMENT
TT-202.00	TELECOM OVERALL RCP - FIRST FLOOR
TT-600.00	TELECOM DETAILS - OUTLETS 1
TT-601.00	TELECOM DETAILS - OUTLETS 2
TT-602.00	TELECOM DETAILS
TT-603.00	TELECOM DETAILS
TT-604.00	TELECOM DETAILS

CABLING NOTES:

1. INSTALL TELECOMMUNICATIONS WIRING TO MAINTAIN A MINIMUM OF 5" SEPARATION FROM FLUORESCENT LIGHTING.
2. PROVIDE DESIGNATION LABELS FOR ALL TERMINATION BLOCKS, PATCH PANELS, AND WORKSTATION OUTLET FACEPLATES.
3. PROVIDE CABLE STRAPS NO GREATER THAN 5' APART TO SUPPORT CABLES WHERE NO CABLE TRAYS AND CONDUITS ARE PROVIDED.
4. INSTALL EACH CABLE SET INDICATED BY THE SYMBOLS LIST FROM THE OUTLET LOCATION TO THE RESPECTIVE SERVING TELECOM ROOM.
5. REPORT TO THE DESIGN TEAM ANY HORIZONTAL CABLE THAT EXCEEDS 250 FT. (75M)
6. DO NOT RUN LOW-VOLTAGE CABLE DIRECTLY PARALLEL TO ELECTRICAL OR GROUND WIRE. IF CABLES MUST CROSS, DO SO AT PERPENDICULAR ANGLES.

TELECOM GENERAL NOTES:

1. DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE INTENDED TO REPRESENT OVERALL DESIGN INTENT.
2. INSTALL FIRESTOP TO ALL SLAB AND WALL PENETRATIONS PROVIDED FOR THE INSTALLATION OF TELECOMMUNICATIONS CABLE AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL. REVIEW ARCHITECT'S PLANS FOR PARTITION TYPES.
3. CABLE TERMINATION HARDWARE INDICATED ON RACK ELEVATIONS MAY BE APPROXIMATE TO INDICATE TYPICAL ORGANIZATION OF TERMINATION HARDWARE. CONTRACTOR SHALL COMPARE THE RACK ELEVATIONS TO THE CABLING REQUIRED BY THE CONTRACT DOCUMENTS AND FURNISH AND INSTALL TERMINATION HARDWARE IN SUFFICIENT QUANTITIES TO TERMINATE CABLES.

IDENTIFICATION:

1. CABLE ADMINISTRATION:
   - A. PROPERLY LABEL ALL CABLES, RECEPTACLES, CONNECTION BLOCKS, GROUNDING BARS, RACKS, CABINETS, OUTLETS AND PATCH PANELS.
   - B. LABEL EACH CABLE THAT EXCEEDS 250 FT. (75M), THE CABLE SHALL BE CLEARLY MARKED WITH RED TAPE AT BOTH ENDS OF EACH CABLE INDICATING THE EXACT CABLE LENGTH AND NOTED IN THE REQUIRED AS-BUILT LABEL REPORT.
   - C. PRIOR TO SYSTEM ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT AN AS-BUILT LABEL REPORT PROVIDING THE ROOM NUMBERS AND CABLE LENGTHS FOR EACH OF THE INSTALLED CABLES.
2. LABEL REQUIREMENTS:
   - A. PROVIDE WHITE LABEL WITH TYPEWRITTEN LEGIBLE CHARACTERS. PRINTED WITH NON-SMEAR TYPE INK. HANDWRITTEN LABELS ARE NOT PERMITTED.
   - B. PROVIDE LABELS WITH A SELF ADHESIVE BACKING.
   - C. PROVIDE LABELS FOR CABLES WITH PROTECTIVE WRAP-AROUND PLASTIC TRANSPARENT COVER WHICH WILL SERVE TO PROTECT THE INK FROM SMEARING AND SECURE THE LABEL TO THE CABLE.
   - D. PROVIDE LABELS FOR CABLES WIDE ENOUGH FOR 23 CHARACTERS IN A SINGLE ROW.
   - E. RISER AND TIE CABLES JACKETS SHALL BE LABELED WITHIN EACH TECHNOLOGY ROOM AND AT 50 FT. (15M) INTERVALS OUTSIDE TECHNOLOGY ROOMS ABOVE CEILINGS.

ABBREVIATIONS:

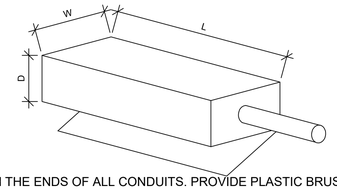
AC	ACOUSTIC / ACOUSTICAL
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIOVISUAL
BDF	BUILDING DISTRIBUTION FACILITY / FRAME
BLDG	BUILDING
BOTT	BOTTOM
CAT 3	CATEGORY-3 RATED CABLE
CAT 5E	CATEGORY-5E RATED CABLE
CAT 6	CATEGORY-6 RATED CABLE
CAT 6A	CATEGORY-6A RATED CABLE
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CLR	CLEAR
CMP	COMMUNICATIONS PLENUM RATED
CONN	CONNECTION
CONT	CONTINUOUS
CP	CONSOLIDATION POINT
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
EA	EACH
ELEV	ELEVATION
EC	EMPTY CONDUIT
ENCL	ENCLOSURE
EQ	EQUAL
EQPT	EQUIPMENT
(E)	EXIST / EXISTING
FB	FLOOR BOX
FIN	FINISH
FT	FOOT / FEET
GC	GENERAL CONTRACTOR
GND	GROUND
HT	HEIGHT / HIGH
HOR	HORIZONTAL
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FACILITY / FRAME
INT	INTERIOR
ISP	INSIDE PLANT (CABLE)
LOMMF	LASER OPTIMIZED MULTIMODE FIBER
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FACILITY / FRAME
MECH	MECHANICAL
MH	MAINTENANCE HOLE
MIN	MINIMUM
MMF	MULTIMODE FIBER
MPOE	MINIMUM POINT OF ENTRY
MTD	MOUNTED
MTG	MEETING
NIC	NOT IN CONTACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT CABLE
PB	PULLBOX
PBX	PRIVATE BRANCH EXCHANGE
PR	PAIR
REC	RECESSED
REQ	REQUIREMENT
RM	ROOM
SC	SECURITY
SCHED	SCHEDULE
SECT	SECTION
SMF	SINGLE-MODE FIBER (ZERO WATER PEAK)
SHT	SHEET
STD	STANDARD
TEL	TELEPHONE
TELC	TELECOM
TEMP	TEMPORARY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
THK	THICK
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
TV	TELEVISION
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WAP	WIRELESS ACCESS POINT
WP	WATERPROOF
WT	WEIGHT
W	WIDE

PATHWAY NOTES:

1. COORDINATE WALL BOX LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.
2. COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATION OF ALL TELECOMMUNICATIONS OUTLETS.
3. INSTALL CONDUIT AND LADDER RACK FOR TELECOMMUNICATIONS WIRING TO MAINTAIN A MINIMUM OF 5" SEPARATION FROM FLUORESCENT LIGHTING.
4. IF CONFLICTS ARE FOUND BETWEEN THE TELECOMMUNICATIONS DRAWINGS AND ANY OTHER DRAWINGS ASSOCIATED WITH THE PROJECT, NOTIFY THE ARCHITECT AT ONCE AND HAVE LOCATION VERIFIED BEFORE OUTLETS ARE INSTALLED. ANY REASONABLE CHANGE IN LOCATION OF OUTLETS PRIOR TO ROUGH-IN SHALL NOT INVOLVE ADDITIONAL EXPENSE TO THE PROJECT. THE TERM "REASONABLE" SHALL BE INTERPRETED AS MOVING OUTLET LOCATIONS A MAXIMUM OF 10' IN ANY DIRECTION FROM THE LOCATION INDICATED ON THE DRAWINGS.
5. MAINTAIN MINIMUM BEND RADIUS OF 10X O.D. FOR CONDUITS GREATER THAN 2" DIAMETER. MAINTAIN MINIMUM BEND RADIUS OF 6X O.D. FOR CONDUITS EQUAL TO OR LESS THAN 2" DIAMETER.
6. PROVIDE PULL BOXES (SIZE AS NOTED) AFTER EVERY 100 FT. (30m) OF RUN OR AFTER EVERY 180-DEGREES OF BEND.
7. DO NOT INSTALL PULL BOXES IN LIEU OF A BEND.

PULL BOX SIZING CHART

CONDUIT	PULL BOX DIMENSIONS			DIMENSION TO INCREASE PULL BOX WIDTH FOR EACH ADDITIONAL CONDUIT (in.)	DIMENSION TO INCREASE PULL BOX DEPTH FOR EACH ADDITIONAL TIER OF CONDUIT (in.)
TRADE SIZE (in.)	WIDTH (in.)	LENGTH (in.)	DEPTH (in.)		
1	4	16	3	2	3
1-1/4	6	20	3	3	3
1-1/2	8	27	4	4	4
2	8	36	5	5	4
2-1/2	10	42	6	6	5
3	12	48	6	6	5
3-1/2	12	54	6	6	6
4	12	60	8	8	8



8. REAM AND BUSH THE ENDS OF ALL CONDUITS. PROVIDE PLASTIC BRUSHINGS ON THE ENDS OF ALL CONDUITS.
9. PROVIDE AND LEAVE IN PLACE A PULL STRING IN EACH CONDUIT.
10. STUB UP CONDUIT SLEEVES THROUGH SLABS 3" ABOVE FINISHED FLOORS.
11. PROVIDE HANGERS, ANCHORS, MOUNTING HARDWARE, GROUND LUGS AND STRAPS AS REQUIRED TO ENSURE PROPER INSTALLATION OF PATHWAY COMPONENTS. INSTALL ALL COMPONENTS AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
12. GROUND ALL CONDUITS AND LADDER RACKS AS PER MANUFACTURERS' RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
13. PROVIDE AT ALL LADDER RACKS AND CABLE TRAY LOCATIONS: RUNWAY DROPOFFS, SPLICE HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, TERMINATION KITS, END SUPPORT KITS AND CEILING SUPPORT HARDWARE.
14. PROVIDE FOR ALL BASKET TYPE CABLE TRAY LOCATIONS: CONNECTION HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, SUPPORT BRACKETS AND CEILING SUPPORT HARDWARE AND WATER FALLS.
15. WHERE CABLE IS RUN ABOVE NON-ACCESSIBLE (I.E. GYPSUM BOARD) CEILING CONSTRUCTION, CONDUIT AND PULL BOXES MUST BE INSTALLED TO PROPERLY ROUTE CABLE.
16. PROVIDE J-HOOKS AND CABLE STRAPS TO SUPPORT CABLE ABOVE ACCESSIBLE CEILING CONSTRUCTION, EXCEPT IN AREAS WHERE CABLE TRAY OR CONDUIT IS INDICATED.

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TELECOM SYMBOLS:

NOTE: ALL CAT-6A CABLE SHALL TERMINATE ON PATCH PANEL'S RACKS IN THE NEAREST COMM ROOM DESIGNATED ON DRAWINGS

SYMBOL	DESCRIPTION	CAT-6A QTY	CONNECTOR, PATCH CORD & CABLE COLOR	MOUNTING / REMARKS
IT - STANDARD WALL MOUNTED DATA OUTLETS ("#" INDICATES QUANTITY OF CABLES)				
#	STANDARD (#) POSITION DATA OUTLET	#	BLUE	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR OUTLET ELEVATIONS. ASSUME 18" AFF FOR CABLE LENGTH CALCULATIONS, UON.
W	STANDARD ONE POSITION DATA OUTLET FOR WALL PHONE	1	BLUE	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ELEVATION. INSTALL SO OPERABLE PORTION OF WALL PHONE IS NO HIGHER THAN 48" AFF.
WAP	WALL MOUNTED WIRELESS ACCESS POINT	2	BLUE	MOUNT IN SURFACE OUTLET BOX AT CEILING WITH 20-FEET OF SERVICE LOOP. ROUTE EQUIPMENT CABLE TO WALL MOUNT BACK BOX LOCATION.
IT - STANDARD FLOOR MOUNTED DATA OUTLETS ("#" INDICATES QUANTITY OF CABLES)				
FB#	STANDARD (#) POSITION DATA OUTLET IN FLOOR BOX	#	BLUE	MOUNT IN FLOOR BOX.
IT - STANDARD FURNITURE FED DATA OUTLETS ("#" INDICATES QUANTITY OF CABLES)				
F#	FURNITURE FED (#) POSITION DATA OUTLET FOR CUBICLE WORK STATIONS	#	BLUE	ROUTE CABLING THROUGH FURNITURE'S INTEGRATED CABLING PATHWAY. COORDINATE WITH FURNITURE SYSTEM INSTALLATION.
IT - STANDARD CEILING MOUNTED DATA OUTLET ("#" INDICATES QUANTITY OF CABLES)				
#	STANDARD TWO POSITION CEILING OUTLET	#	BLUE	MOUNT IN SURFACE MOUNT OUTLET BOX AT CEILING WITH 15-FEET OF SERVICE LOOP.
WAP	WIRELESS ACCESS POINT OUTLET	2	YELLOW	MOUNT IN SURFACE MOUNT OUTLET BOX AT CEILING WITH 20-FEET OF SERVICE LOOP.
AUDIOVISUAL - STANDARD WALL MOUNTED DATA OUTLETS ("#" INDICATES QUANTITY OF CABLES)				
CP	ONE POSITION DATA OUTLET FOR AUDIOVISUAL CONTROL PANEL	1	BLACK	COORDINATE MOUNTING HEIGHT WITH ELECTRICAL AND AV CONTRACTORS.
FP#	(#) POSITION DATA OUTLET FOR AUDIOVISUAL DISPLAY	#	BLACK	MOUNT IN SURFACE MOUNT OUTLET BOX WITHIN AV DISPLAY BACK BOX.
AR	SIX POSITION DATA OUTLET FOR AUDIOVISUAL RACK	6	BLACK	18" AFF UON
RS	ONE POSITION DATA OUTLET FOR AUDIOVISUAL ROOM SCHEDULER	1	BLACK	MOUNT IN SURFACE MOUNT OUTLET BOX AT CEILING WITH 15-FEET OF SERVICE LOOP. ROUTE EQUIPMENT CABLE TO WALL MOUNT BACK BOX LOCATION.
AUDIOVISUAL - STANDARD FLOOR MOUNTED DATA OUTLETS ("#" INDICATES QUANTITY OF CABLES)				
AV#	STANDARD (#) POSITION DATA OUTLET IN FLOOR BOX	#	BLACK	MOUNT IN FLOOR BOX.
AUDIOVISUAL - STANDARD CEILING MOUNTED DATA OUTLET ("#" INDICATES QUANTITY OF CABLES)				
AV#	STANDARD (#) POSITION CEILING OUTLET	#	BLACK	MOUNT IN SURFACE MOUNT OUTLET BOX AT CEILING WITH 15-FEET OF SERVICE LOOP.
SECURITY - STANDARD WALL & CEILING MOUNTED DATA OUTLETS ("#" INDICATES QUANTITY OF CABLES)				
IC	ONE POSITION DATA OUTLET FOR SECURITY INTERCOM	1	ORANGE	MOUNT IN SURFACE MOUNT OUTLET BOX. INSTALL WITHIN INTERCOM STANTON OR AT CEILING WITH 15-FEET OF SERVICE LOOP. COORDINATE INSTALLATION THROUGH SHOP DRAWINGS.
SC	ONE POSITION DATA OUTLET FOR SECURITY CAMERA	1	ORANGE	MOUNT IN SURFACE MOUNT OUTLET BOX AT CEILING WITH 15-FEET OF SERVICE LOOP. COORDINATE WITH SECURITY CAMERA LOCATION.
SP	TWO POSITION DATA OUTLET FOR SECURITY PANEL	2	ORANGE	COORDINATE MOUNTING HEIGHT WITH SECURITY ACCESS CONTROL PANEL.
SC	STANDARD CAMERA CEILING OUTLET	1	ORANGE	MOUNT IN SURFACE MOUNT OUTLET BOX AT CEILING WITH 15-FEET OF SERVICE LOOP. COORDINATE WITH SECURITY CAMERA LOCATION.

*** INSTALL ALL CAT-6A SECURITY INTERCOM AND CAMERA CABLING AND TERMINATE IN NEAREST TELECOM ROOM. PLEASE REFER TO SECURITY DRAWINGS FOR THOSE OUTLET LOCATIONS. ALL SECURITY CAT-6A CONNECTORS, PATCH CORDS, AND CABLES SHALL BE ORANGE IN COLOR.

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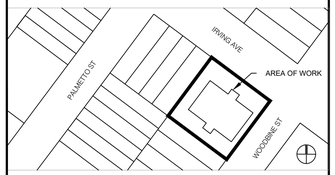
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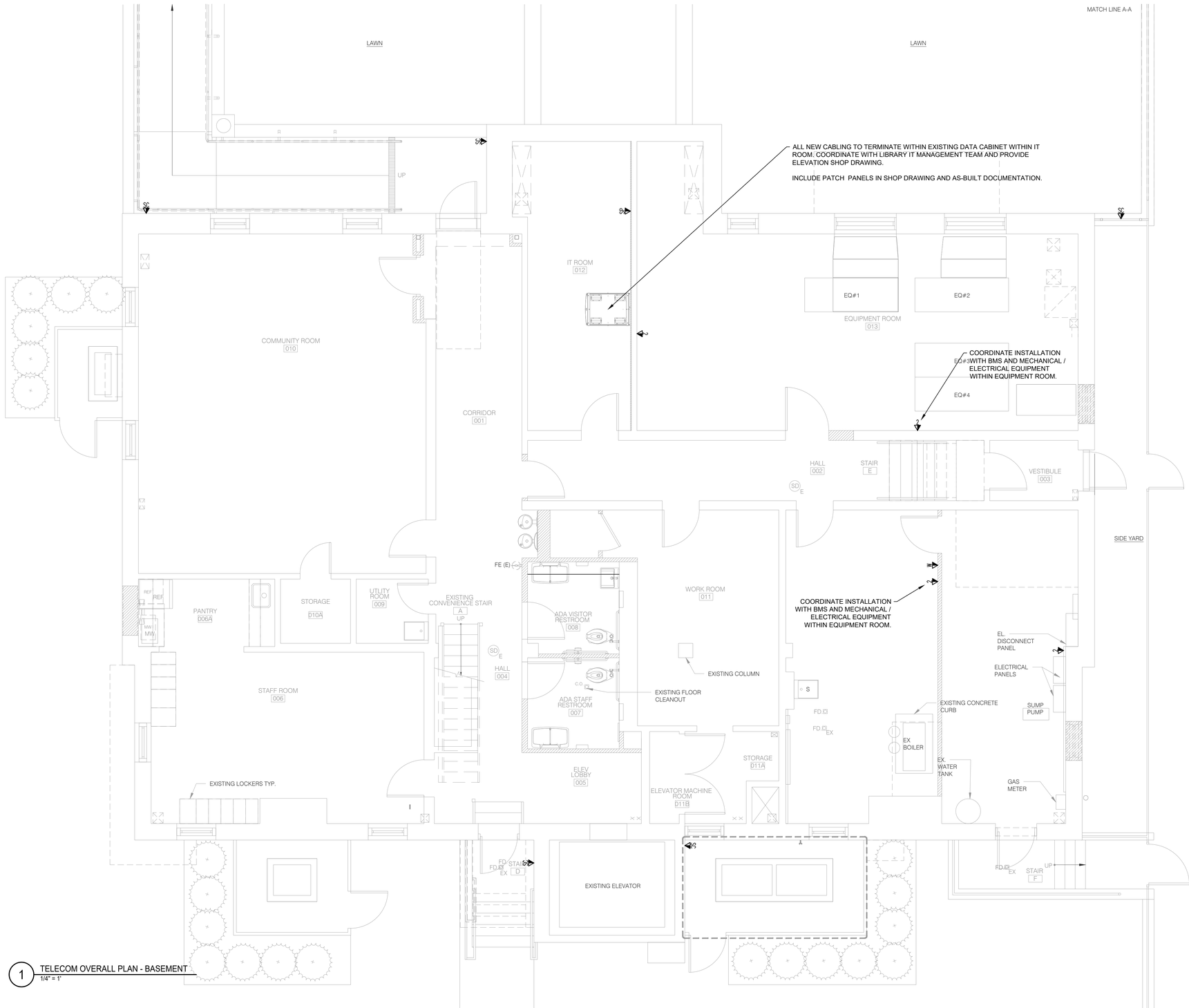
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1 TELECOM OVERALL PLAN - BASEMENT
1/4" = 1'

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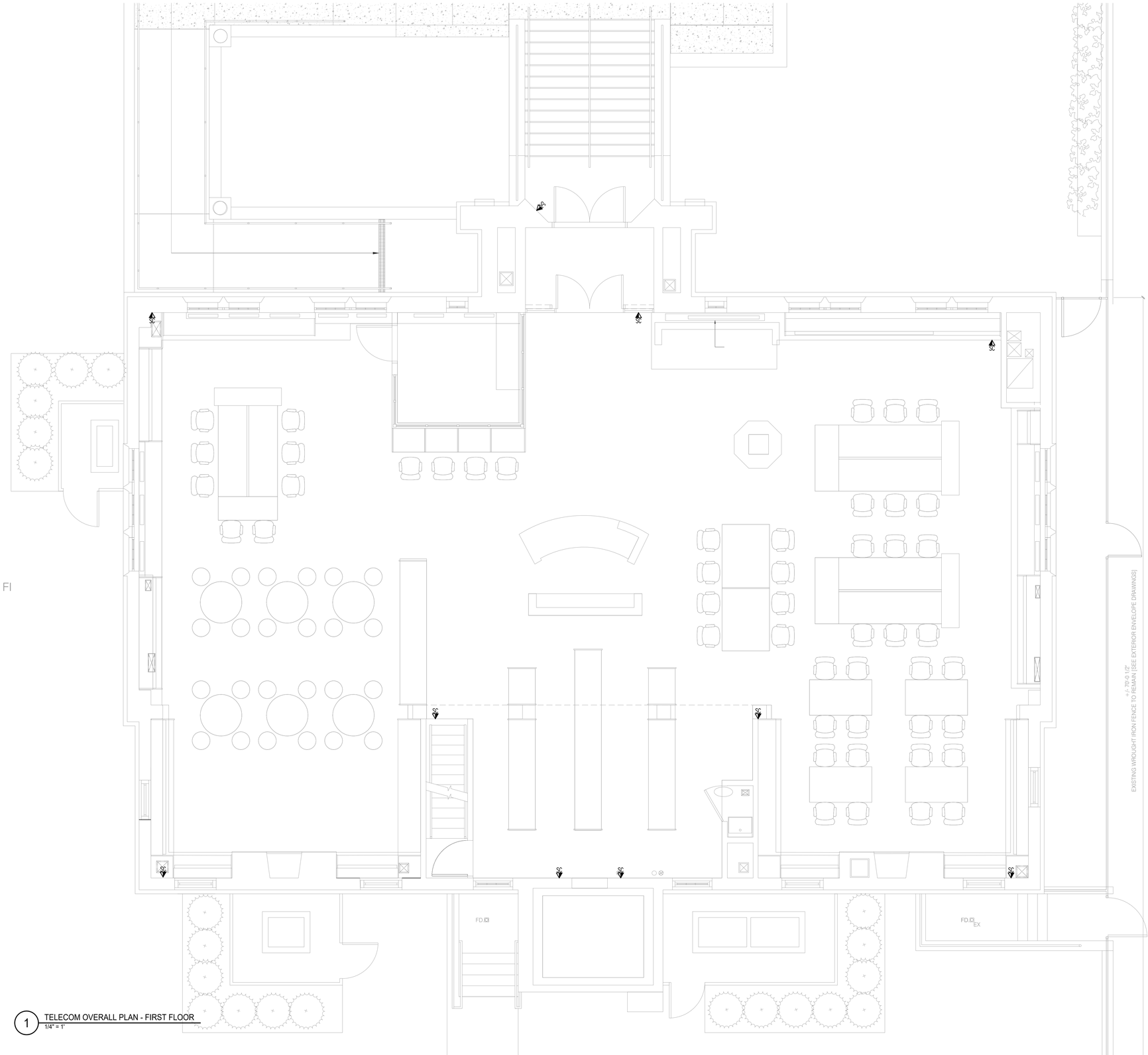
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1 TELECOM OVERALL PLAN - FIRST FLOOR
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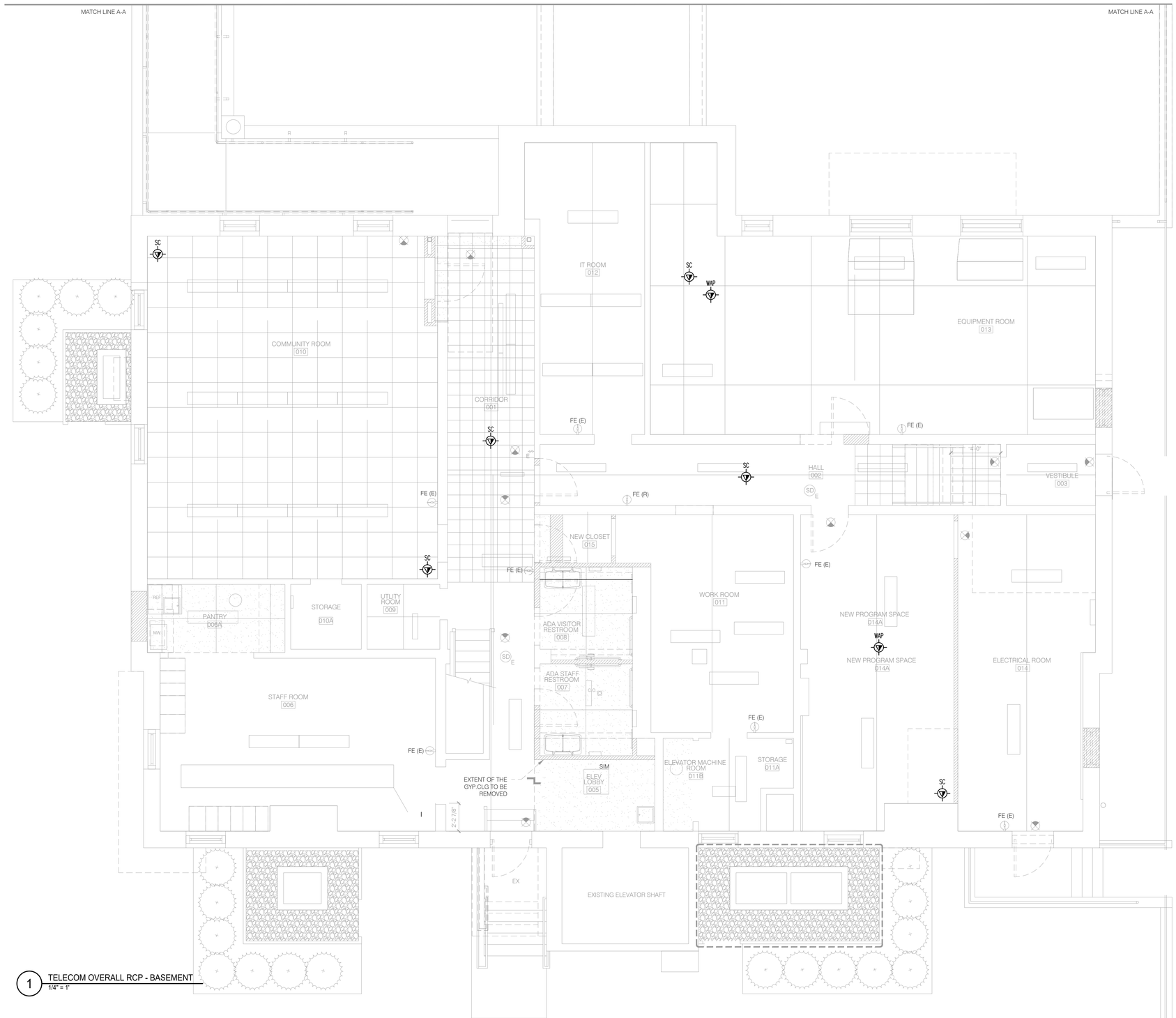
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EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

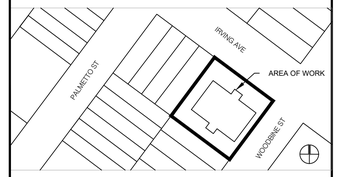
CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

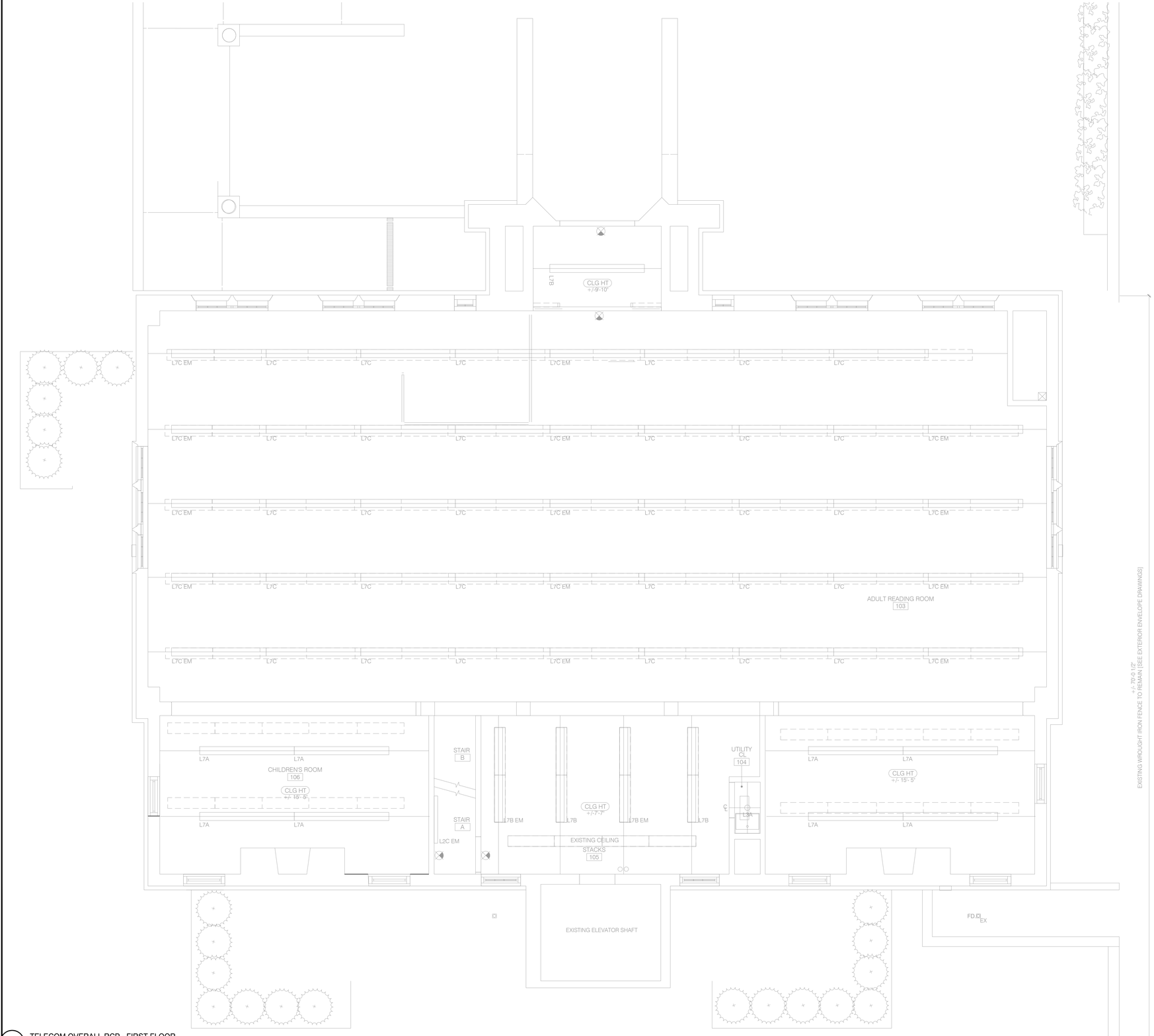
PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:
TELECOM OVERALL RCP - BASEMENT

SEAL & SIGNATURE

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	LG
CHECKED BY:	LG
DRAWING NUMBER:	TT-201.00
CAD FILE No:	
	OF



1 TELECOM OVERALL RCP - FIRST FLOOR
1/4" = 1'

NOTES:

EXISTING DATA OUTLETS TO REMAIN ARE NOT DOCUMENTED ON THIS DRAWING. CONTRACTOR TO RECORD LOCATIONS AND IDENTIFICATION LABELS (OUTLET LABELS) AND NOTE AS "EXISTING" ON AS-BUILT DOCUMENTATION

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

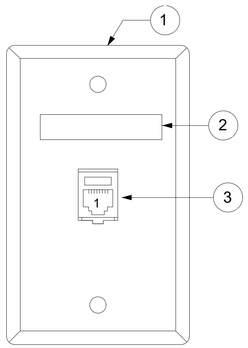
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

TELECOM OVERALL RCP - FIRST FLOOR

SEAL & SIGNATURE

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	LG
CHECKED BY:	LG
DRAWING NUMBER:	TT-202.00
CAD FILE No:	
	OF



DETAIL KEY NOTES:

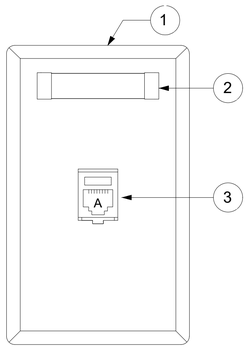
1. 1-PORT SINGLE GANG WALL PHONE FACEPLATE.
   - COORDINATE WITH DIVISION 26 FACEPLATES.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. LABEL OUTLET WITH MACHINE-PRINTED SELF-ADHESIVE LABEL
   - LABELING TO MATCH PORT DESIGNATIONS AT PATCH PANEL. ALL OUTLETS SHALL HAVE UNIQUE LABELING.
3. TERMINATE CABLE ON 8P8C JACK.
   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
W	MINIMUM 3/4" CONDUIT FROM BACK BOX TO ACCESSIBLE CEILING	MINIMUM 4" SQUARE METAL BACK BOX WITH SINGLE GANG DEVICE RING

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
1	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

1 WALL PHONE OUTLET
NTS



DETAIL KEY NOTES:

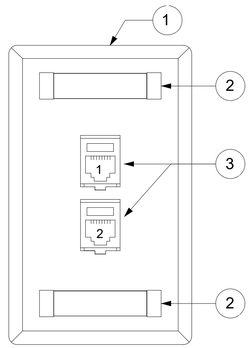
1. 1-PORT SINGLE GANG FACEPLATE.
   - COORDINATE WITH DIVISION 26 FACEPLATES.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
   - LABELING TO MATCH PORT DESIGNATIONS AT PATCH PANEL. ALL OUTLETS SHALL HAVE UNIQUE LABELING.
3. TERMINATE CABLE ON 8P8C JACK.
   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
1	MINIMUM 3/4" CONDUIT FROM BACK BOX TO ACCESSIBLE CEILING	MINIMUM 4" SQUARE METAL BACK BOX WITH SINGLE GANG DEVICE RING

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
1	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

2 WALL-MOUNTED 1-PORT OUTLET
NTS



DETAIL KEY NOTES:

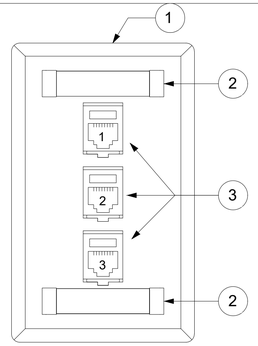
1. 2-PORT SINGLE GANG FACEPLATE.
   - COORDINATE WITH DIVISION 26 FACEPLATES.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
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   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
2 SP	MINIMUM 1" CONDUIT FROM BACK BOX TO ACCESSIBLE CEILING	MINIMUM 4" SQUARE METAL BACK BOX WITH SINGLE GANG DEVICE RING

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
2	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

3 WALL-MOUNTED 2-PORT OUTLET
NTS



DETAIL KEY NOTES:

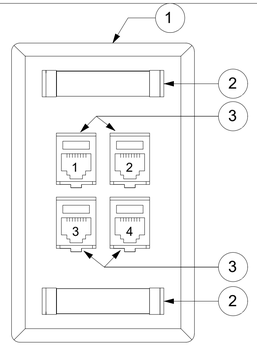
1. 3-PORT SINGLE GANG FACEPLATE.
   - COORDINATE WITH DIVISION 26 FACEPLATES.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
   - LABELING TO MATCH PORT DESIGNATIONS AT PATCH PANEL. ALL OUTLETS SHALL HAVE UNIQUE LABELING.
3. TERMINATE CABLE ON 8P8C JACK.
   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
3	MINIMUM 1" CONDUIT FROM BACK BOX TO ACCESSIBLE CEILING	MINIMUM 4" SQUARE METAL BACK BOX WITH SINGLE GANG DEVICE RING

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
3	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

4 WALL-MOUNTED 3-PORT OUTLET
NTS



DETAIL KEY NOTES:

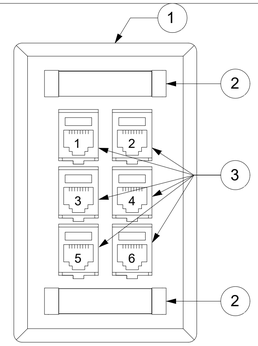
1. 4-PORT SINGLE GANG FACEPLATE.
   - COORDINATE WITH DIVISION 26 FACEPLATES.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
   - LABELING TO MATCH PORT DESIGNATIONS AT PATCH PANEL. ALL OUTLETS SHALL HAVE UNIQUE LABELING.
3. TERMINATE CABLE ON 8P8C JACK.
   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
4	MINIMUM 1 1/4" CONDUIT FROM BACK BOX TO ACCESSIBLE CEILING	MINIMUM 4" SQUARE METAL BACK BOX WITH SINGLE GANG DEVICE RING

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
4	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

5 WALL-MOUNTED 4-PORT OUTLET
NTS



DETAIL KEY NOTES:

1. 6-PORT SINGLE GANG FACEPLATE.
   - COORDINATE WITH DIVISION 26 FACEPLATES.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
   - LABELING TO MATCH PORT DESIGNATIONS AT PATCH PANEL. ALL OUTLETS SHALL HAVE UNIQUE LABELING.
3. TERMINATE CABLE ON 8P8C JACK.
   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
6 AR	MINIMUM 1 1/2" CONDUIT FROM BACK BOX TO ACCESSIBLE CEILING	MINIMUM 4" SQUARE METAL BACK BOX WITH SINGLE GANG DEVICE RING

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
6	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

6 WALL-MOUNTED 6-PORT OUTLET
NTS

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
NANDINEE PHOOKAN ARCHITECTS
45 MAIN STREET SUITE #620, BROOKLYN, NY 11201

MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
40 WALL STREET, 23RD FLOOR, NEW YORK, NY 10005

ACOUSTICS/SECURITY/TELECOM:
SHEN MILSOM & WILKE LLC
275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR

PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237

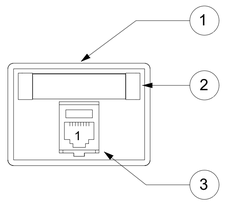
FOR THE:
Brooklyn Public Library (BPL)

DRAWING TITLE:

TELECOM DETAILS - OUTLETS 1

SEAL & SIGNATURE

DATE:	03.11.2024
PROJECT NO:	LBP21WIBR
DRAWN BY:	LG
CHECKED BY:	LG
DRAWING NUMBER:	TT-600.00
CAD FILE No:	OF



DETAIL KEY NOTES:

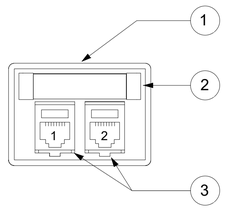
1. 1-PORT SURFACE-MOUNT OUTLET BOX.
   - OUTLET BOX IS TO BE LISTED FOR THE ENVIRONMENT THAT IT IS TO BE INSTALLED IN.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
   - LABELING TO MATCH PORT DESIGNATIONS AT PATCH PANEL. ALL OUTLETS SHALL HAVE UNIQUE LABELING.
3. TERMINATE CABLE ON 8P8C JACK.
   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
SC	NONE	NONE

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
1	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

7 CEILING-MOUNTED 1-PORT OUTLET
NTS



DETAIL KEY NOTES:

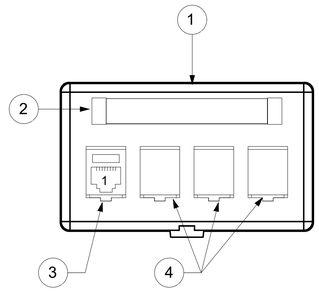
1. 2-PORT SURFACE-MOUNT OUTLET BOX.
   - OUTLET BOX IS TO BE LISTED FOR THE ENVIRONMENT THAT IT IS TO BE INSTALLED IN.
   - COLORS AND FINISHES TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
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   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.

SYMBOL:	CONDUIT STUB:	BACK BOX:
WAP	NONE	NONE

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
2	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

8 CEILING-MOUNTED 2-PORT OUTLET
NTS



DETAIL KEY NOTES:

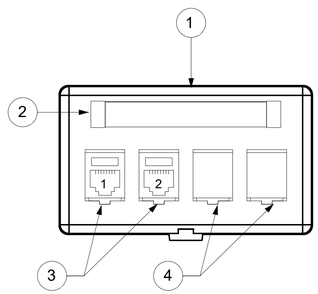
1. FURNITURE-MOUNT FACE PLATE, COMPATIBLE WITH FURNITURE SYSTEM. REFER TO FURNITURE PLANS. COLOR AND FINISH TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
   - LABELING TO MATCH PORT DESIGNATIONS AT PATCH PANEL. ALL OUTLETS SHALL HAVE UNIQUE LABELING.
3. TERMINATE CABLE ON 8P8C JACK.
   -TERMINATION SCHEME IS TIA 568-B UON.
   - JACK COLOR TO MATCH CABLE COLOR UON.
   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.
4. PROVIDE BLANK PORT COVERS FOR ALL UNUSED PORTS.

SYMBOL:	CONDUIT STUB:	BACK BOX:
F1	NA. CABLE IS ROUTED THROUGH FURNITURE'S INTEGRATED CABLE PATHWAY	NA / INTEGRATED INTO FURNITURE

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
2	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

9 FURNITURE-MOUNTED 1-PORT OUTLET
NTS



DETAIL KEY NOTES:

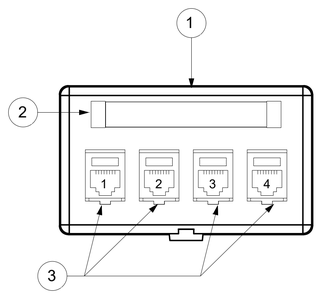
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4. PROVIDE BLANK PORT COVERS FOR ALL UNUSED PORTS.

SYMBOL:	CONDUIT STUB:	BACK BOX:
F2	NA. CABLE IS ROUTED THROUGH FURNITURE'S INTEGRATED CABLE PATHWAY	NA / INTEGRATED INTO FURNITURE

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
2	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

10 FURNITURE-MOUNTED 2-PORT OUTLET
NTS



DETAIL KEY NOTES:

1. FURNITURE-MOUNT FACE PLATE, COMPATIBLE WITH FURNITURE SYSTEM. REFER TO FURNITURE PLANS. COLOR AND FINISH TO BE VERIFIED THROUGH SHOP DRAWINGS AND SUBMITTALS.
2. OUTLET LABELING WINDOW
   - LABEL OUTLET USING MACHINE-PRINTED LABELS COMPATIBLE WITH FACE PLATE.
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   - LABEL CABLE TO MATCH PORT DESIGNATION IN PATCH PANEL USING MACHINE-PRINTED SELF ADHESIVE LABEL. ALL CABLES ARE TO HAVE A UNIQUE LABELING.
4. PROVIDE BLANK PORT COVERS FOR ALL UNUSED PORTS.

SYMBOL:	CONDUIT STUB:	BACK BOX:
F4	NA. CABLE IS ROUTED THROUGH FURNITURE'S INTEGRATED CABLE PATHWAY	NA / INTEGRATED INTO FURNITURE

CABLE DETAILS:

QUANTITY:	CABLE TYPE:	CABLE COLOR:
2	4-PAIR CATEGORY 6A U/UTP	REFER TO LEGEND ON TT-000

11 FURNITURE-MOUNTED 4-PORT OUTLET
NTS

DOB APPROVAL STAMP

WASHINGTON IRVING BRANCH LIBRARY RENOVATION

360 IRVING AVENUE BROOKLYN, NEW YORK, 11237

SPONSOR AGENCY
BROOKLYN PUBLIC LIBRARY
10 GRAND ARMY PLAZA, BROOKLYN, NY 11238

MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
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MEP ENGINEER:
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EXTERIOR RESTORATION :
THE FALCON GROUP
350 SEVENTH AVENUE, SUITE 301, NEW YORK, NY 10001

CIVIL ENGINEERS :
DEROSIER ENGINEERING
35 GATES AVENUE, WARREN, NJ 07059

STRUCTURAL ENGINEERS :
LERA CONSULTING STRUCTURAL ENGINEERS
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ACOUSTICS/SECURITY/TELECOM:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

LANDSCAPE ARCHITECT:
NV5 NEW YORK
32 OLD SLIP, 4TH FLOOR, NEW YORK, NY 10005

KEY PLAN:



NUMBER	DESCRIPTION	DATE
1	Issued for Bid	03-17-2026

Department of Design and Construction

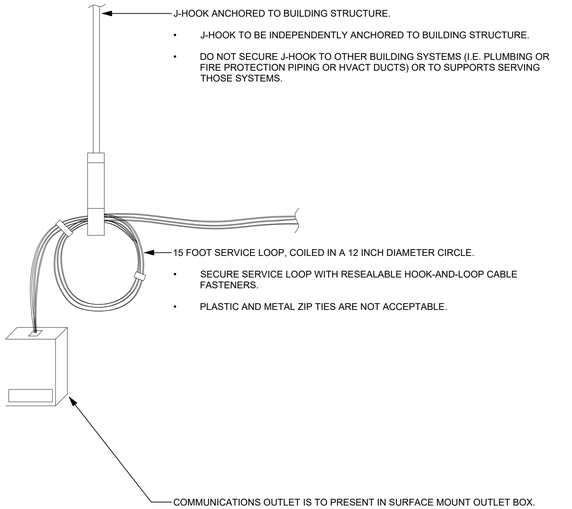
DIVISION OF PUBLIC BUILDINGS

CAPITAL PROJECT NUMBER:
LBP21WIBR
PROJECT
WASHINGTON IRVING BRANCH LIBRARY RENOVATION
360 IRVING AVENUE,BROOKLYN, NEW YORK, 11237
FOR THE:
Brooklyn Public Library (BPL)

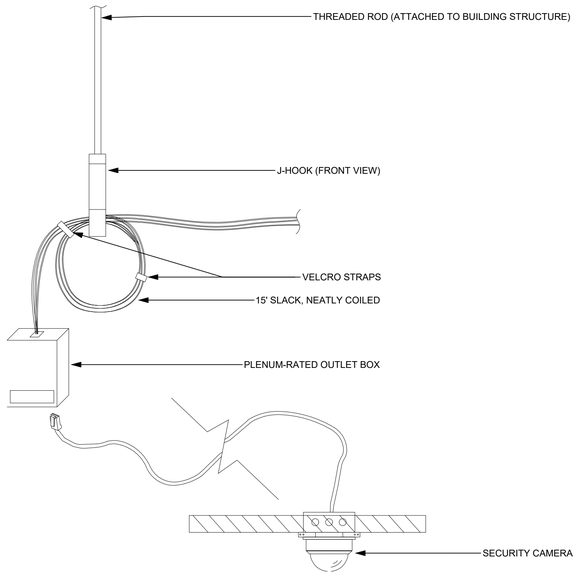
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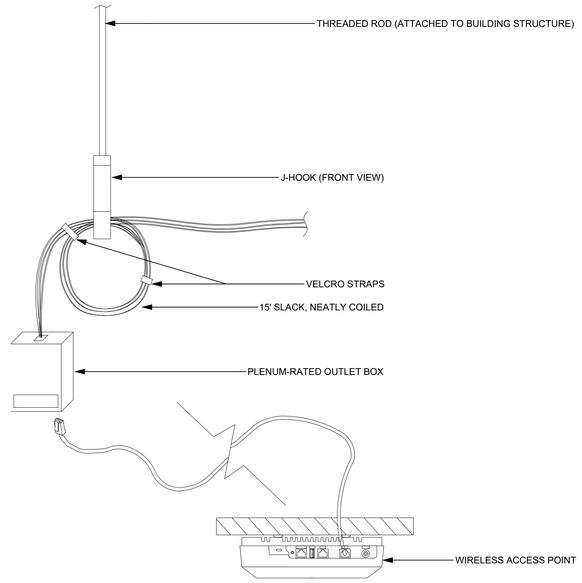
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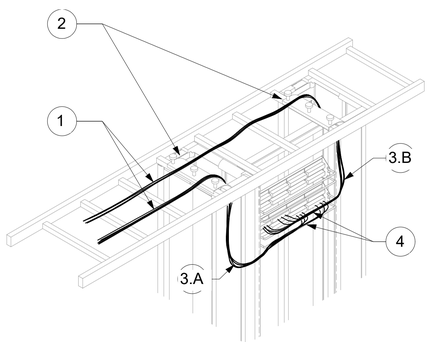
1 ABOVE-CEILING GENERAL OUTLET CABLING
NTS



2 ABOVE-CEILING GENERAL OUTLET CABLING TO SECURITY CAMERA - OUTLET BOX
NTS



3 ABOVE-CEILING GENERAL OUTLET CABLING TO WAP - OUTLET BOX
NTS



DETAIL KEY NOTES:

1. BUNDLE CABLES IN GROUPS OF TWENTY FOUR (24), MAXIMUM. SECURE TO LADDER RACK USING RE-SEALABLE HOOK-AND-LOOP CABLE STRAPS. PLASTIC AND METAL ZIP TIES ARE NOT ACCEPTABLE.

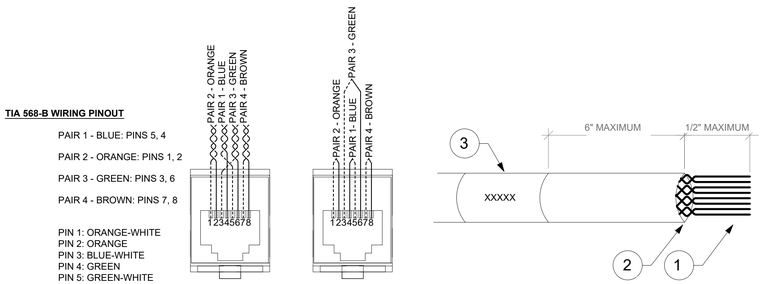
2. ROUTE CABLES FROM LADDER RACK TO RACK OR VERTICAL CABLE MANAGERS VIA CABLE WATERFALLS.
   WATERFALLS ARE TO BE INSTALLED IN THE DIRECTION OF THE CABLE DROP.

3. ROUTE CABLES ACROSS REAR OF RACK TO PATCH PANEL:
   A. PORTS 1-12 & 25-36 ARE TO ENTER THE RACK ON THE LEFT (WHEN FACING THE REAR OF THE RACK)
   B. PORTS 13-24 & 37-48 ARE TO ENTER THE RACK ON THE RIGHT (WHEN FACING THE REAR OF THE RACK)

4. SECURE CABLES TO STRAIN RELIEF BARS ON PATCH PANELS.
   - BUNDLE NO MORE THAN TWENTY-FOUR (24) CABLES PER STRAIN RELIEF BAR
   - FASTEN TO STRAIN RELIEF BAR USING RE-SEALABLE HOOK-AND-LOOP FASTENERS. PLASTIC AND METAL ZIP TIES ARE NOT ACCEPTABLE.

NOTE: ONLY PARTIAL CABLING IS SHOWN FOR ILLUSTRATIVE PURPOSES.

4 PATCH PANEL CABLE DRESSING
NTS



DETAIL KEY NOTES:

1. INDIVIDUAL PAIRS SHALL NOT BE UNTWISTED MORE THAN 1/2 INCH.
   -UTP CONNECTING HARDWARE SHALL BE INSTALLED TO PROVIDE MINIMAL SIGNAL IMPAIRMENT BY PRESERVING WIRE PAIR TWISTS AS CLOSELY AS POSSIBLE TO THE POINT OF MECHANICAL TERMINATION.

2. CLEANLY REMOVE MINIMUM AMOUNT OF CABLE JACKET.
   - DO NOT REMOVE INSULATION FROM INNER CONDUCTORS. IF AN INNER CONDUCTOR'S INSULATION IS DAMAGED DURING REMOVAL OF THE OUTER JACKET THEN CUT OFF THE DAMAGED SECTION OF CABLE AND REMOVE THE OUTER JACKET FURTHER DOWN.

3. THE CABLE SHALL BE PERMANENTLY LABELED WITH MACHINE-PRINTED SELF ADHERING LABELS AT BOTH ENDS.
   - EACH CABLE SHALL HAVE A UNIQUE IDENTIFIER.
   - LABELS SHALL BE LOCATED WITHIN 6 INCHES OF THE CABLE END.
   - HANDWRITTEN LABELS AND MARKINGS ARE NOT ACCEPTABLE. ALL LABELING SHALL BE MACHINE PRINTED.

BOTH ENDS OF THE CABLE ARE TO BE TERMINATED AS FOLLOWS:

- ALL WIRING SHALL BE TIA-568B UON.
- TERMINATE ALL WIRING ON INSULATION DISPLACEMENT CONNECTION (IDC) TERMINATION AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- EXCESS WIRE SHALL BE REMOVED. DO NOT LEAVE "TAILS" HANGING OFF OF THE IDC TERMINATION.
- AN INDUSTRY ACCEPTED PUNCHDOWN/TERMINATION IMPACT TOOL SHALL BE USED FOR ALL CABLE TERMINATIONS. STUFFER CAPS SHALL NOT BE USED IN LIEU OF A PUNCHDOWN / TERMINATION IMPACT TOOL.

5 CATEGORY 6A U/UTP CABLING TERMINATION
NTS

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MANAGING AGENCY
NYC DEPT OF DESIGN & CONSTRUCTION
30-30 THOMSON AVENUE, LONG ISLAND CITY, NEW YORK 11101

ARCHITECT:
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MEP ENGINEER:
DEWBERRY ENGINEERS, INC
5 PENN PLAZA, SUITE 900, NEW YORK, NY 10001

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THE FALCON GROUP
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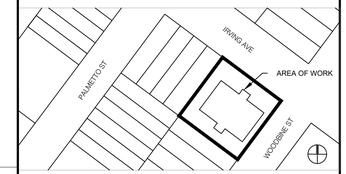
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ACOUSTICS/SECURITY/TELECOM:
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275 MADISON AVENUE, 14TH FLOOR, NEW YORK, NY 10016

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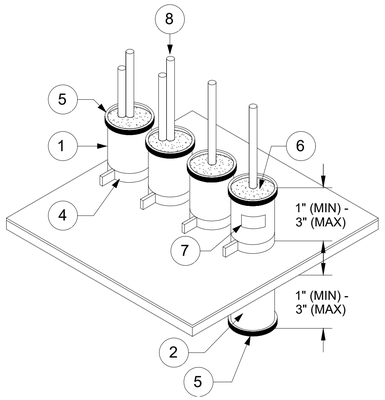
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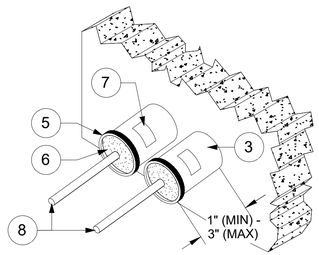
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CONDUITS PENETRATING FLOOR / CEILING SLAB



CONDUITS PENETRATING WALL



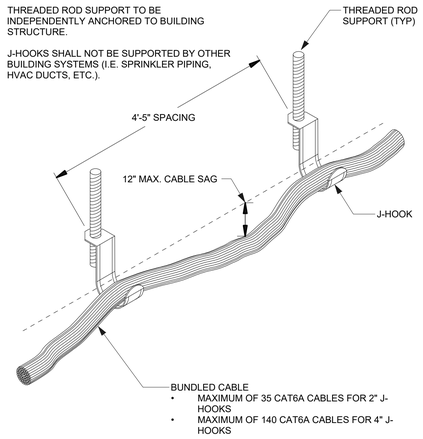
DETAIL KEYNOTES:

1. CONDUITS STUBBED UP FROM FLOOR BELOW.
2. CONDUITS STUBBED DOWN FROM FLOOR ABOVE.
3. CONDUITS ENTERING ROOM THROUGH WALL.
4. PROVIDE A RISER CLAMP FOR EACH CONDUIT AT THE PENETRATION THROUGH THE FLOOR.
5. DEBURR EACH CONDUIT AND PROVIDE A NONMETALLIC BUSHING ON EACH CONDUIT'S END PRIOR TO INSTALLATION OF ANY CABLING.
6. FIRESTOP EACH CONDUIT BY A LISTED METHOD.
   - FIRE RATING OF PATHWAY IS TO MEET OR EXCEED THE FIRE RATING OF THE FLOOR / CEILING SLAB OR WALL (MINIMUM 2-HOUR FIRE RATING). REFER TO ARCHITECTURAL PLANS FOR FURTHER INFORMATION.
   - FIRESTOP METHODS ARE TO BE VERIFIED THROUGH THE PROJECT'S SUBMITTAL PROCESS AND ARE TO BE REVIEWED / APPROVED BY THE CONSULTANT AND ARCHITECT.
7. LABEL EACH CONDUIT AS PER THE PROJECT'S LABELING SCHEME.
8. INSTALL CABLING IN CONDUITS.
   - SECURE VERTICALLY RUNNING CABLING TO VERTICAL CABLE SUPPORTS (I.E., VERTICAL LADDER RACK, CABLE TRAY, D-RINGS, OR SIMILAR), NOT SHOWN.
   - SECURE HORIZONTALLY RUNNING CABLING TO HORIZONTAL CABLE PATHWAY OR SUPPORT (I.E., CABLE TRAY, LADDER RACK, OR J-HOOKS), NOT SHOWN.

GENERAL NOTES:

- FIRESTOP ANNULAR SPACE AROUND CONDUIT, PENETRATING FLOOR / CEILING SLAB OR WALL.
- FIRE RATING OF PATHWAY IS TO MEET OR EXCEED THE FIRE RATING OF THE FLOOR / CEILING SLAB OR WALL (MINIMUM 1-HOUR FIRE RATING). REFER TO ARCHITECTURAL PLANS FOR FURTHER INFORMATION.
- FIRESTOP METHODS ARE TO BE VERIFIED THROUGH THE PROJECT'S SUBMITTAL PROCESS AND ARE TO BE REVIEWED / APPROVED BY THE CONSULTANT AND ARCHITECT.

1 CONDUITS THROUGH PENETRATIONS WITH FIRESTOPPING
NTS



2 J-HOOK CABLE SUPPORT
NTS

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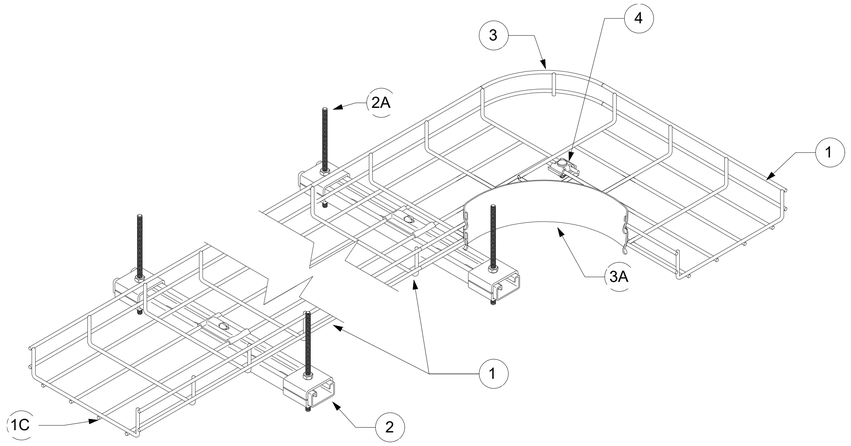
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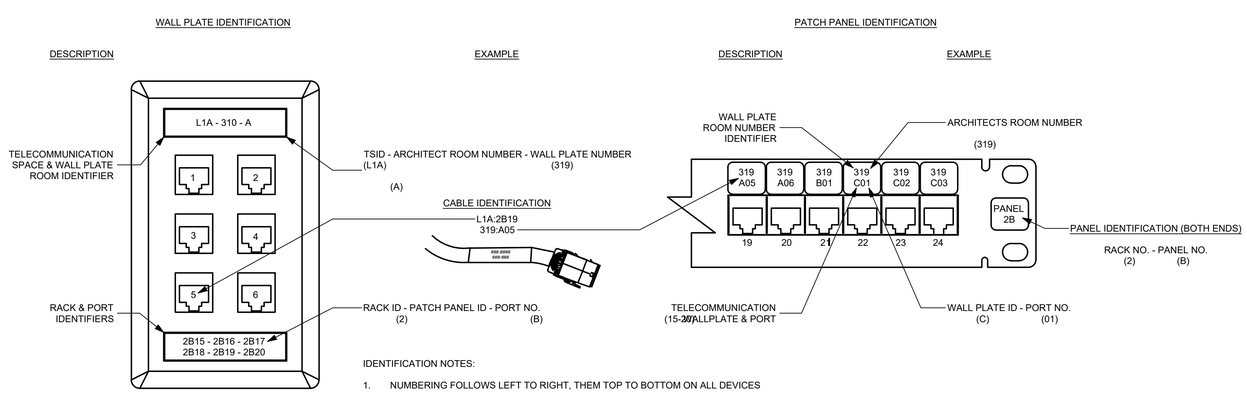
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CABLE TRAY INSTALLATION KEYNOTES

1. INSTALL CABLE TRAY IN STRAIGHT SECTIONS LEVEL AND PARALLEL OR PERPENDICULAR TO BUILDING LINES (COLUMNS, WALLS, ETC).
   - A. INSTALL CABLE TRAY LEVEL WITH 12" CLEAR ABOVE AND 7' - 6" CLEAR AFF FROM THE BOTTOM OF THE CABLE TRAY AND ALL SUPPORTS.
   - B. WIRE MESH CABLE TRAY IS SHOWN, HOWEVER THIS DETAIL APPLIES TO SOLID BOTTOM AND VENTILATED BOTTOM TROUGH CABLE TRAYS.
   - C. WHEN CUTTING STRAIGHT SECTIONS:
     - a. MAKE ALL CUTS STRAIGHT WITH NO JAGGED EDGES
     - b. FOR WIRE MESH CABLE TRAYS, TRIM AND DEBUR THE CUT SECTION OF THE CABLE TRAY SUCH THAT NO WIRE SEGMENTS HANG OVER THE CUT EDGE.
2. CABLE TRAY IS TO BE SUPPORTED BY TRAPEZE HANGERS OR PAIRS OF INTEGRATED SUPPORTS, AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   - A. ANCHOR SUPPORTS DIRECTLY TO BUILDING STRUCTURE (STRUCTURAL SLAB OR STRUCTURAL BEAM) AND SUPPORT WITH MINIMUM 3/8" ALL THREAD ROD.
   - B. DO NOT SUPPORT CABLE TRAY BY MOUNTING TO OTHER BUILDING SYSTEMS (HVAC DUCTS, PLUMBING OR FIRE PROTECTION PIPING, ETC) OR SUPPORTS FOR THOSE SYSTEMS.
   - C. SPACE SUPPORTS ALONG THE LENGTH OF THE CABLE TRAY AT 5' - 0", MAXIMUM DISTANCE AND SUCH THAT EACH SECTION OF CABLE TRAY IS SUPPORTED BY AT LEAST ONE (1) TRAPEZE OR PAIR OF INTEGRATED SUPPORTS.
3. BENDS IN CABLE TRAY ARE TO BE FACTORY MANUFACTURED 30, 45, 60, OR 90 -DEGREE BENDS
   - A. FIELD-FABRICATED BENDS MADE FROM STRAIGHT SECTIONS OF WIRE MESH CABLE TRAY ARE PERMITTED. WHEN FIELD-FABRICATING BENDS, ADD SUPPORTS TO MAINTAIN CABLE BEND RADIUS REQUIREMENTS.
4. SPLICE CABLE TRAY SECTIONS TOGETHER USING MANUFACTURER SPECIFIED SPLICE PLATES OR SPLICE CLAMPS. SPLICES MUST BE MADE SUCH THAT THE CABLE TRAY MAINTAINS IT'S ELECTRICAL CONDUCTIVITY. SPLICES MUST EITHER BE MADE WITH PAINT-PIERCING WASHERS OR BY REMOVAL OF FINISH/PAINT AT SPLICE LOCATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

1 CABLE TRAY INSTALLATION
NTS



IDENTIFICATION NOTES:

1. NUMBERING FOLLOWS LEFT TO RIGHT, THEM TOP TO BOTTOM ON ALL DEVICES
2. LABEL SHALL CONFORM TO SPECIFICATION 27 05 53 COMMUNICATION IDENTIFICATION
3. TELECOMMUNICATION SPACE ID (TSID) NUMBERS ARE FOUND ON RISER DIAGRAM AND FLOOR PLANS
4. CABLES SHALL BE TERMINATED SEQUENTIALLY ON PATCH PANELS, IN THE FOLLOWING, ROOM ####(#), WALL PLATE ##, PORT##
5. CABLE LABELS SHALL COMBINE BOTH WALL PLATE AND PATCH PANEL ID AT BOTH ENDS OF THE CABLE WITHIN 6 INCHES OF TERMINATION

2 PROPOSED IDENTIFICATION SCHEME
NTS

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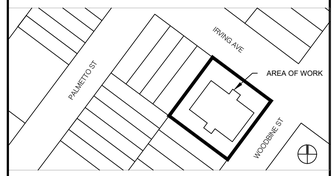
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ASBESTOS ABATEMENT
WASHINGTON IRVING BRANCH LIBRARY
RENOVATION
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ASBESTOS ABATEMENT GENERAL NOTES

1. ALL ASBESTOS REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW, GUIDELINES, REGULATIONS, ORDERS AND DIRECTIVES, INCLUDING WITHOUT LIMITATIONS, THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), AND U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH), NEW YORK CITY LOCAL LAW TITLE 16, CHAPTER 1 RCNY, AND THE NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL).

2. ASBESTOS ABATEMENT CONTRACTOR SHALL FURNISH ALL LABOR MATERIAL, EQUIPMENT, SERVICES, ETC., NECESSARY FOR TO PERFORM THE WORK REQUIRED FOR ASBESTOS ABATEMENT IN ACCORDANCE WITH CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

3. ASBESTOS ABATEMENT SHALL DEVELOP AND IMPLEMENT A WRITTEN STANDARD PROCEDURE FOR ABATEMENT WORK TO ENSURE MAXIMUM PROTECTION AND SAFEGUARD FROM ASBESTOS EXPOSURE OF THE WORKERS, VISITORS, EMPLOYEES, GENERAL PUBLIC, AND THE ENVIRONMENT.

4. ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE SIGNS, LABELS, WARNINGS, AND POST INSTRUCTIONS THAT ARE NECESSARY TO PROTECT, INFORM AND WARN PEOPLE OF THE HAZARD FROM ASBESTOS EXPOSURE. POST IN A PROMINENT AND CONVENIENT PLACE FOR THE WORKERS A COPY OF THE LATEST APPLICABLE REGULATIONS FOR OSHA, EPA NIOSH, AND NYSDOL.

5. CITY TO NOTIFY ASBESTOS ABATEMENT CONTRACTOR OF ITEMS THAT CANNOT BE REMOVED OR REQUIRES SPECIAL ATTENTION, ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE PROPER PROTECTION AS WELL AS DECONTAMINATION OF ALL ITEMS REMAINING IN THE WORK AREA.

6. ASBESTOS ABATEMENT CONTRACTOR SHALL HEPA VACUUM AND WET WIPE ALL PORTABLE ITEMS WITHIN THE WORK AREA, CITY IS TO INDICATE ALL ITEMS THAT MAY REQUIRE SPECIAL ATTENTION (I.E. COMPUTERS, ELECTRICAL EQUIPMENT, ETC.)

7. THE ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE ALL ELECTRICAL, WATER AND WASTE CONNECTIONS, TIE-INS, EXTENSIONS, CONSTRUCTION MATERIALS, SUPPLIES, ETC., AS REQUIRED TO FACILITATE ASBESTOS REMOVAL.

8. ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRIC AND LIGHT THROUGHOUT THE WORK AREAS AS REQUIRED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND CODES.

9. ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE PORTABLE SMOKE/HEAT DETECTORS THROUGHOUT EACH WORK AREA.

10. ASBESTOS ABATEMENT CONTRACTOR SHALL PROPERLY PROTECT ALL CONTROLS, TUBING, ELECTRICAL PANELS, EQUIPMENT, ETC. WITHIN THE WORK AREA.

11. ASBESTOS ABATEMENT CONTRACTOR SHALL ISOLATE AND PROTECT ALL MECHANICAL EQUIPMENT REMAINING IN THE WORK AREA. ALL EQUIPMENT TO REMAIN SHALL BE HEPA VACUUMED AND WET WIPED PRIOR TO PLASTICIZING AND UPON THE COMPLETION OF THE PROJECT. ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE WOOD BOX ENCLOSURES AND ADEQUATE VENTILATION FOR ANY EQUIPMENT THAT WILL REMAIN IN OPERATION DURING ASBESTOS ABATEMENT. ASBESTOS ABATEMENT CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS WITH CONSULTANT AND CITY.

12. ASBESTOS ABATEMENT CONTRACTOR SHALL EXERCISE EXTREME CARE AND CAUTION DURING ANDY AND ALL DEMOLITION AND ABATEMENT OPERATIONS. ASBESTOS ABATEMENT CONTRACTOR SHALL CONDUCT REMOVAL OF ALL MATERIALS FROM THE SITE WITH THE MINIMUM DISTURBANCE; PROVIDE PROPER PROTECTION AND REGULAR MAINTENANCE OF ALL BUILDING PREMISES DIRECTLY OR INDIRECTLY ASSOCIATED WITH ABATEMENT OPERATIONS.

13. ASBESTOS ABATEMENT CONTRACTOR SHALL COMPLETELY ISOLATE WORK AREA AS DESCRIBED IN CONTRACT DOCUMENTS. ALL ISOLATION BARRIERS, PERSONAL/WASTE DECONTAMINATION ENCLOSURE SYSTEM (P.W.D.E.S), PLASTIC SHEETING, AIR FILTRATION DEVICES (AFD), AUXILIARY MAKE-UP AIR MANIFOLDS, ETC., SHALL BE IN PLACE AND APPROVED BY THE CITY PRIOR TO THE BEGINNING OF ASBESTOS REMOVAL.

14. ASBESTOS ABATEMENT CONTRACTOR SHALL LOCATE AND SEAL ALL PENETRATIONS THROUGH WALLS BETWEEN THE WORK AREA AND ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO PIPE, DUCT, CONDUIT, CHASES, AND OPENINGS IN FIRE WALLS OR DECKS BETWEEN FLOORS AS REQUIRED BY THE FIELD CONDITION.

15. ASBESTOS ABATEMENT CONTRACTOR SHALL CONSTRUCT ISOLATION BARRIERS IN ORDER TO PROVIDE COMPLETE AND TOTAL ISOLATION OF THE ABATEMENT SITE FROM ALL ADJACENT AREAS. ALL ISOLATION BARRIERS SHALL BE OF WOOD; 2 " X 4" AT 16" O.C. WITH 1/2" PLYWOOD SHEATHING, SEALED ON BOTH SIDES WITH TWO LAYERS OF 6 MIL PLASTIC SHEETING, CAULK AND SEAL ALL JOINTS AT THE PERIMETER, ALL MATERIALS SHALL BE FIRE RETARDANT . ASBESTOS ABATEMENT CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, CONSTRUCTION BARRIERS SHALL BE CONDUCTED UNDER STRICT ASBESTOS ABATEMENT SCHEDULE.

16. ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE EMERGENCY EXIT (EMCB) AS REQUIRED.

17. ASBESTOS ABATEMENT CONTRACTOR SHALL COORDINATE WITH CONSTRUCTION PROJECT MANAGER AND BUILDING ENGINEER HVAC SHUTDOWN AS REQUIRED

18. ASBESTOS ABATEMENT CONTRACTOR SHALL SEPARATE AND BLANK-OFF WITH SHEET METAL AND CAP ALL RETURN AND LOW PRESSURE DUCT SYSTEMS WHICH ENTER AND EXIT THE WORK AREA AS REQUIRED, SEAL ALL CONNECTING JOINTS AIR TIGHT WITH TAPE AND PLASTIC SHEETING. COORDINATE ALL WORK WITH THE FACILITY MANAGER AND THE CONSTRUCTION PROJECT MANAGER.

19. ASBESTOS ABATEMENT CONTRACTOR SHALL CONSTRUCT PERSONAL/WASTE DECONTAMINATION ENCLOSURE SYSTEM (P.W.E.S.) AS INDICATES, IT SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE STORAGE OF MATERIALS, EQUIPMENT, ETC., WHILE ALLOWING FOR THE PASSAGE OF LABORERS AND THEIR EQUIPMENT (SCAFFOLDING) BETWEEN CLEAN AND CONTAMINATED AREAS.

20. SHOWER AND WASTEWATER MUST BE FILTERED AND DISPOSED OF IN THE BUILDING'S SANITARY SYSTEM, REFER TO CONTRACT SPECIFICATIONS.

21. ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE PORTABLE CABINET-MOUNTED AIR FILTRATION DEVICES (AFD) EQUIPPED WITH HEPA FILTERS AT 99.97% EFFICIENCY, TO .3 MICRONS. THE NUMBER OF UNITS SHALL BE SUFFICIENT TO ENSURE A MINIMUM OF FOUR (4) COMPLETE AIR CHANGES PER HOUR AND MAINTAIN A NEGATIVE PRESSURE DIFFERENTIAL OF .02 INCHES OF WATER.

22 ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE SECURITY SUCH THAT ALL BUILDING EMPLOYEES AND OR VISITORS ARE PROHIBITED FROM ENTERING THE WORK AREA. ASBESTOS ABATEMENT CONTRACTOR SHALL BE ALSO RESPONSIBLE FOR THE FIRE WATCH DURING ALL ABATEMENT OPERATIONS.

23. ASBESTOS ABATEMENT CONTRACTOR SHALL INSTALL AFD EXHAUST MANIFOLD AS REQUIRED FOR ADEQUATE AIRFLOW. REFER TO CONTRACT SPECIFICATIONS FOR DESCRIPTION, COORDINATE ALL LOCATIONS WITH CONSTRUCTION PROJECT MANAGER.

24. ASBESTOS ABATEMENT CONTRACTOR SHALL SUPPLY ALL NECESSARY CONNECTIONS, FASTENERS, FLEXIBLE DUCTS, MANIFOLDS, SUPPORTS, ETC., ANY AND ALL INSTALLATIONS SHALL COMPLY WITH CONTRACT DOCUMENTS AND MANUFACTURER'S REQUIREMENTS.

25. ASBESTOS ABATEMENT CONTRACTOR SHALL HEPA VACUUM AND WET WIPE ALL SURFACES WITHIN THE WORK AREA UPON THE COMPLETION OF ASBESTOS ABATEMENT. REFER TO CONTRACT SPECIFICATIONS..

26. ASBESTOS ABATEMENT CONTRACTOR MAY ENCOUNTER EXTENSIVE CONDUIT WIRING, DUCTS, ETC. ABOVE THE CEILING. ALL ITEMS SHALL BE PROPERLY PROTECTED PRIOR TO ABATEMENT AND THOROUGHLY DECONTAMINATION UPON COMPLETION OF ASBESTOS REMOVAL. REFER TO CONTRACT SPECIFICATIONS..

27. DEBRIS RESULTING FROM ANY DEMOLITION AND/OR DURING THE ASBESTOS ABATEMENT ACTIVITIES SHALL BE DISPOSED OF AS INDICATED IN CONTRACT DOCUMENTS OR DIRECTED BY THE CONSTRUCTION MANAGER.

28. ALL ROUTES THROUGH THE BUILDING TO BE USED DURING THE ASBESTOS ABATEMENT OPERATIONS SHALL BE COORDINATED WITH FACILITY MANAGER AND CONSTRUCTION PROJECT MANAGER. ASBESTOS ABATEMENT CONTRACTOR SHALL UTILIZE ENCLOSED MOBILE CONTAINER FOR TRANSPORTATION OF ALL WASTE MATERIALS. ALL EGRESS ROUTES SHALL BE PROPERLY PROTECTED AND SUFFICIENTLY MAINTAINED BY THE ASBESTOS ABATEMENT CONTRACTOR.

29. UNLESS OTHERWISE NOTED, ALL WORKERS AND WASTE DECONTAMINATION FACILITIES BOTH CONTIGUOUS AND REMOTE FROM THE WORK AREA SHALL BE CONSTRUCTED WITH A SOLID OUTER SHELL. THE OUTER SHELL SHALL BE FRAMED 2" x 4" STUDDING 16" O.C. WITH A SOLID SHEATHING MATERIAL OF AT LEAST 3/8" MIN. THICKNESS

30. LOCATION OF ANY REMOTE DECONTAMINATION FACILITIES SHALL BE COORDINATED AND APPROVED BY THE CITY AND THE CONSTRUCTION PROJECT MANAGER PRIOR TO THE START OF WORK

31. AIR FILTRATION DEVICE (AFD) EXHAUST LOCATIONS WILL BE COORDINATED WITH THE FACILITIES MANAGER AND THE CONSTRUCTION PROJECT MANAGER.

32. CONTRACT DRAWINGS WERE PREPARED FROM EXISTING DRAWING SUPPLIES BY THE CITY AND PROVIDED FOR INFORMATION PURPOSES ONLY. THE CONSULTANT MAKES NO CLAIMS AS TO THEIR ACCURACY OR ANY INFORMATION DERIVED THROUGH THEIR USE.

33. ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM THE EXACT SCOPE OF WORK FOR EACH PHASE OF ABATEMENT WITH THE GENERAL CONTRACTOR AND OTHER TRADES.

34. ASBESTOS ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE AND DETERMINING ALL QUANTITIES, MEASUREMENTS, AND ANY ANY OTHER CONDITIONS RELATIVE TO THE ENTIRE PROJECT. THE DRAWINGS ARE ONLY A DIAGRAMMATICAL REPRESENTATION OF THE WORK AREAS AND MAY NOT CONSTITUTE THE ACTUAL QUANTITIES OF THE MATERIAL. ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR THE CONFIRMATION OF THE ACTUAL TOTAL QUANTITIES OF THE WORK PRIOR TO BIDDING, NO EXTRA COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN THE ACTUAL CONDITIONS AND THOSE INDICATED ON THE DRAWINGS. IT IS THE CITY INTENT TO REMOVE ALL ASBESTOS-CONTAINING MATERIAL SCHEDULED TO BE DISTURBED WITHIN THE WORK AREA. THE ASBESTOS ABATEMENT CONTRACTOR SHALL PROMPTLY NOTIFY THE CITY SHOULD ADDITIONAL SUSPECT ACM BE DISTURBED WITHIN THE WORK AREAS. THE ASBESTOS ABATEMENT CONTRACTOR SHALL PROMPTLY NOTIFY THE CITY SHOULD ADDITIONAL SUSPECT ACM BE ENCOUNTERED DURING ABATEMENT ACTIVITIES.

35. ASBESTOS ABATEMENT CONTRACTOR SHALL PROVIDE ALL SCAFFOLDING PLATFORM INSTALLATION, EQUIPMENT, TOOLS, TRANSPORTATION AND ANY OTHER EQUIPMENT REQUIRED AND OR NECESSARY TO COMPLETE ALL WORK DESCRIBED IN THE CONTRACT DOCUMENTS.

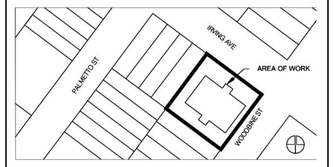
DRAWING	DRAWING NAME
H001.00	ASBESTOS ABATEMENT - GENERAL NOTES
H002.00	ASBESTOS ABATEMENT - BASEMENT FLOOR PLAN
H003.00	ASBESTOS ABATEMENT - FIRST FLOOR PLAN
H004.00	ASBESTOS ABATEMENT - MEZZANINE FLOOR PLAN
H005.00	ASBESTOS ABATEMENT - ROOF/SITE PLAN

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INSPECTOR(S) / INVESTIGATOR(S):

NAME	NYS DOL #:	NYC DEP #:
JOSUE GARCIA	24-61GFB-SHAB	119168

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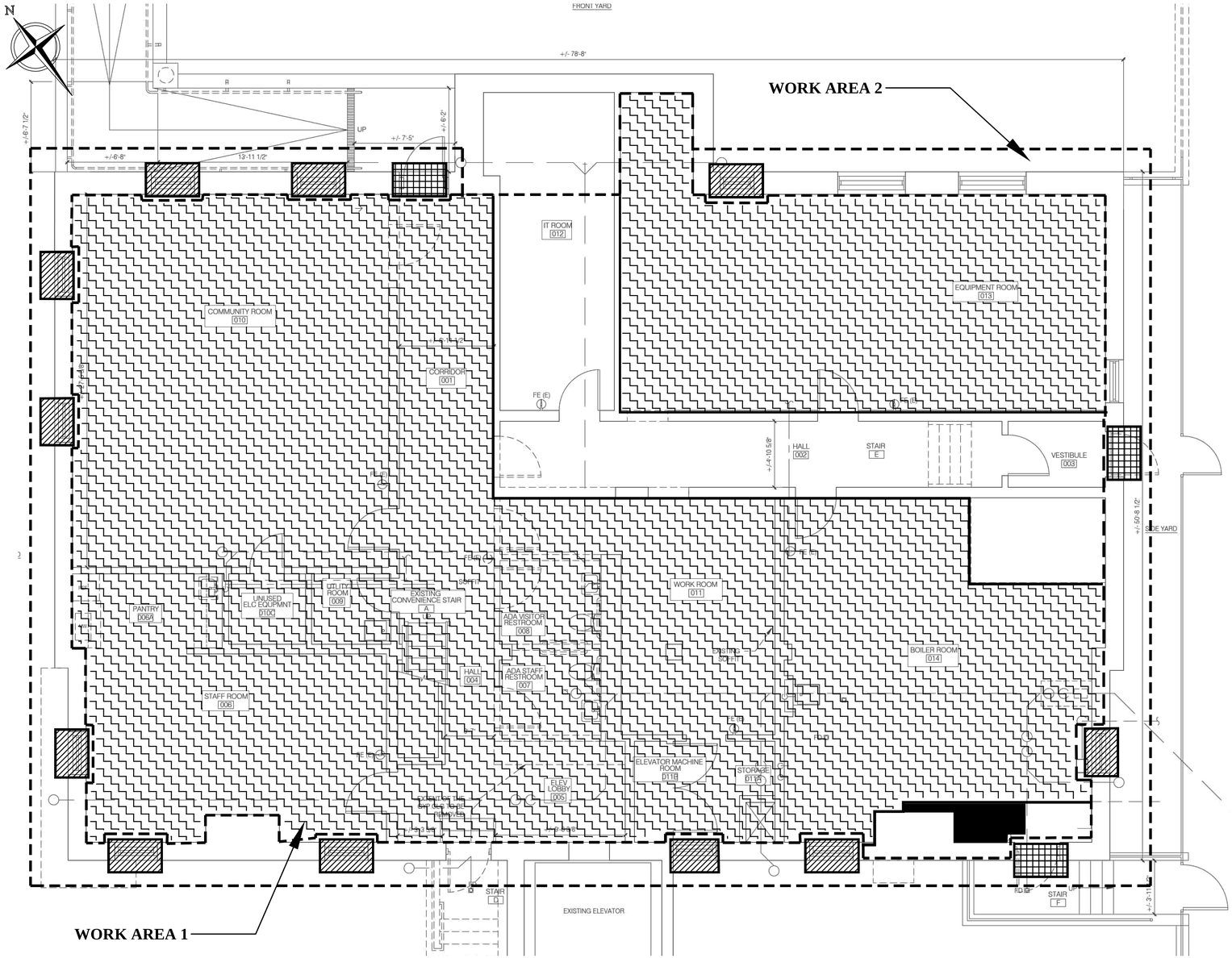
CAPITAL PROJECT NUMBER: LBP21WIBR

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DRAWING TITLE:
ASBESTOS ABATEMENT GENERAL NOTES

DRAWN BY: J. GARCIA	SCALE: SEE BAR SCALE
CHECKED BY: P. SAHA	DATE: 06/06/2025
	DRAWING NUMBER: **H001.00**
	DRAWING NUMBER: 1 OF 5

CONSULTANTS PROJECT #: US0023336.4152



1 H002.00 BASEMENT FLOOR PLAN

0' 2' 4' 8'

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

LEGEND

- LOCATION OF ASBESTOS CONTAINING CEMENTITIOUS EXHAUST PIPE TO WATER HEATER (GREY) - 12 LF.
- LOCATION OF ASBESTOS CONTAINING AIRCELL PIPE INSULATION (WHITE) AND 4" AIR-CELL PIPE INSULATION (GRAY) - 200 LF.
- LOCATION OF ASBESTOS CONTAINING EXTERIOR WINDOW FRAME CAULK (BLACK/RED) - 12 SF.
- LOCATION OF ASBESTOS CONTAINING REMNANTS OF OLD DOOR CAULKING (WHITE) - 10 SF.
- WORK AREA BOUNDARY

WORK AREA	REMOVAL PROCEDURES	APPROXIMATE SQUARE FEET (SQ. FT.)	APPROXIMATE LINEAR FEET LN. FT.)
1	NYCDEP SECTION § 1-105 GLOVEBAG PROCEDURES	_____	12 LN. FT. OF CEMENTITIOUS EXHAUST PIPE TO WATER HEATER (GREY)
		_____	200 LN. FT. OF AIRCELL PIPE INSULATION (WHITE) AND 4" AIR-CELL PIPE INSULATION (GRAY)
2	NYCDEP SECTION § 1-109 ABATEMENT FROM VERTICAL EXTERIOR SURFACES	12 SQ. FT. (198 LN. FT.) OF EXTERIOR WINDOW FRAME CAULK (BLACK/RED) WITHIN 11 OPENINGS	_____
		10 SQ. FT. (72 LN. FT.) OF REMNANTS OF OLD DOOR CAULKING (WHITE) WITHIN 3 OPENINGS	_____

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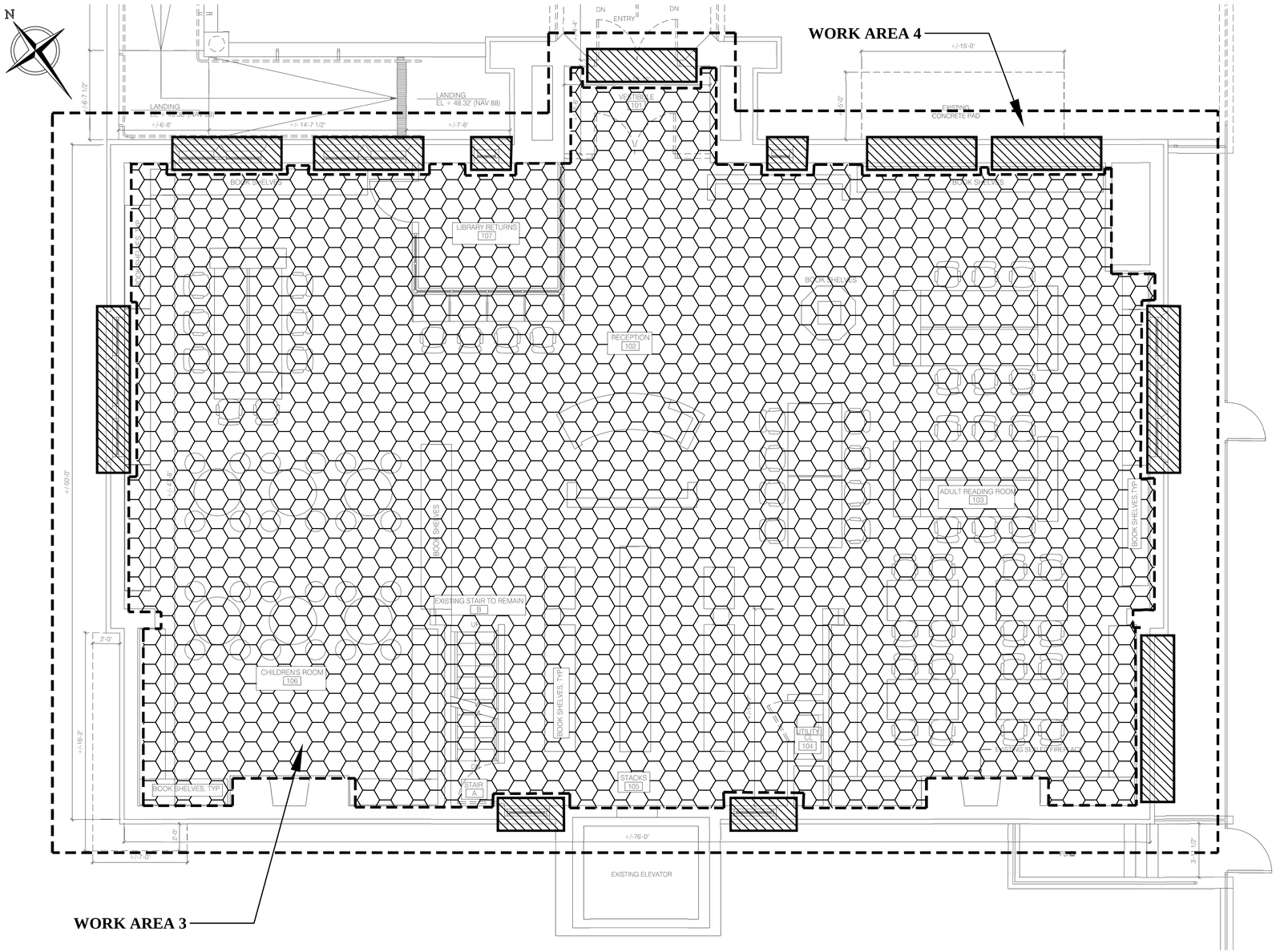
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DRAWING TITLE:

ASBESTOS ABATEMENT BASEMENT FLOOR PLAN

DRAWN BY: J. GARCIA	SCALE: SEE BAR SCALE
CHECKED BY: P. SAHA	DATE: 06/06/2025
	DRAWING NUMBER: **H002.00**
	DRAWING NUMBER: 2 OF 5

CONSULTANTS PROJECT #: US0023336.4152



1 H003.00 FIRST FLOOR PLAN

0' 2' 4' 8'

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

LEGEND

- LOCATION OF ASBESTOS CONTAINING GLUE TO 12" X 12" GRAY VFT (YELLOW/BLACK) & CONTAMINATED 12" X 12" VFT (GRAY) - 200 SF; WALL & CEILING PLASTER (BROWN COAT) AND CONTAMINATED WALL & CEILING PLASTER (WHITE COAT) - 1,500 SF (EXACT LOCATION TO BE DETERMINED IN THE FIELD).
- LOCATION OF ASBESTOS CONTAINING EXTERIOR OLD WINDOW CAULK (WHITE) AND CONTAMINATED EXTERIOR WINDOW FRAME CAULK (BLACK) - 60 SF.
- WORK AREA BOUNDARY

WORK AREA	REMOVAL PROCEDURES	APPROXIMATE SQUARE FEET (SQ. FT.)	APPROXIMATE LINEAR FEET LN. FT.)
3	NYCDEP SECTION § 1-106 TENT CONTAINMENT PROCEDURES	1,500 SQ. FT. OF WALL & CEILING PLASTER (BROWN COAT) AND CONTAMINATED WALL & CEILING PLASTER (WHITE COAT)	
		20 SQ. FT. OF GLUE TO 12" X 12" GRAY VFT (YELLOW/BLACK) AND CONTAMINATED 12" X 12" VFT (GRAY)	
4	NYCDEP SECTION § 1-109 ABATEMENT FROM VERTICAL EXTERIOR SURFACES	60 SQ. FT. (730 LN. FT.) OF EXTERIOR OLD WINDOW CAULKING (WHITE) AND CONTAMINATED EXTERIOR WINDOW FRAME CAULKING (BLACK) WITHIN 12 OPENINGS	

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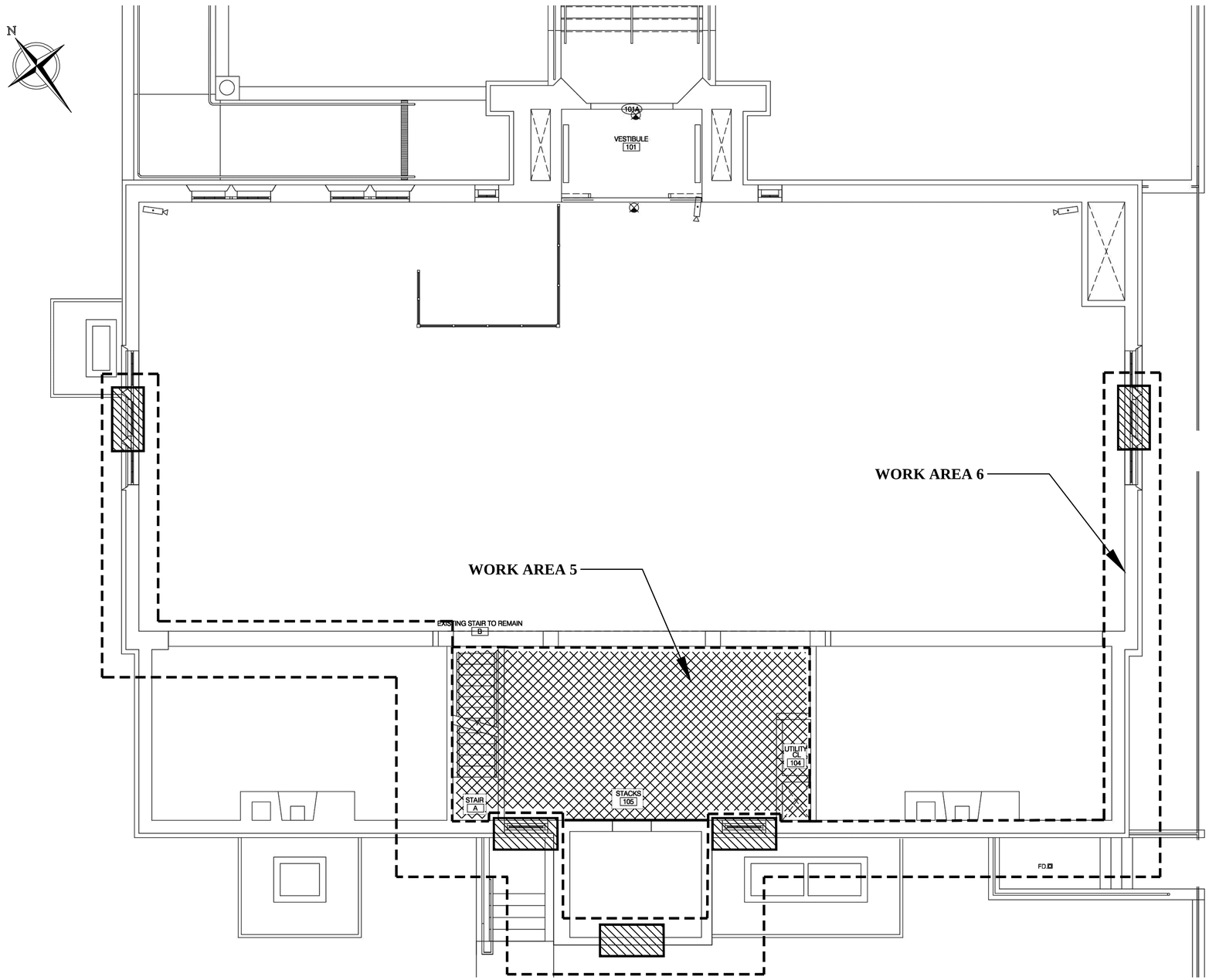
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DRAWING TITLE:

ASBESTOS ABATEMENT FIRST FLOOR PLAN

DRAWN BY: J. GARCIA	SCALE: SEE BAR SCALE
CHECKED BY: P. SAHA	DATE: 06/06/2025
	DRAWING NUMBER: **H003.00**
	DRAWING NUMBER: 3 OF 5

CONSULTANTS PROJECT #: US0023336.4152



1 H004.00 MEZZANINE FLOOR PLAN

0' 2' 4' 8'

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

LEGEND

- LOCATION OF ASBESTOS CONTAINING 12" X 12" VFT (TAN) - 20 SF AND 4" BASEBOARD (BROWN) - 2 SF; WALL & CEILING PLASTER (GRAY COAT) AND CONTAMINATED WALL & CEILING PLASTER (WHITE COAT) - 20 SF (EXACT LOCATION TO BE DETERMINED IN THE FIELD).
- LOCATION OF ASBESTOS CONTAINING EXTERIOR OLD WINDOW CAULK (WHITE) AND CONTAMINATED EXTERIOR WINDOW FRAME CAULK (BLACK) - 11 SF.
- WORK AREA BOUNDARY

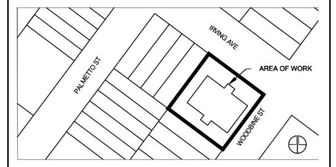
WORK AREA	REMOVAL PROCEDURES	APPROXIMATE SQUARE FEET (SQ. FT.)	APPROXIMATE LINEAR FEET LN. FT.)
5	NYCDEP SECTION § 1-106 TENT CONTAINMENT PROCEDURES	20 SQ. FT. OF WALL & CEILING PLASTER (GRAY COAT) AND CONTAMINATED WALL & CEILING PLASTER (WHITE COAT)	
		20 SQ. FT. OF 12" X 12" VFT (TAN)	
		2 SQ. FT. OF 4" BASEBOARD (BROWN)	
6	NYCDEP SECTION § 1-109 ABATEMENT FROM VERTICAL EXTERIOR SURFACES	11 SQ. FT. (130 LN. FT.) OF EXTERIOR OLD WINDOW CAULKING (WHITE) AND CONTAMINATED EXTERIOR WINDOW FRAME CAULKING (BLACK) WITHIN 5 OPENINGS	

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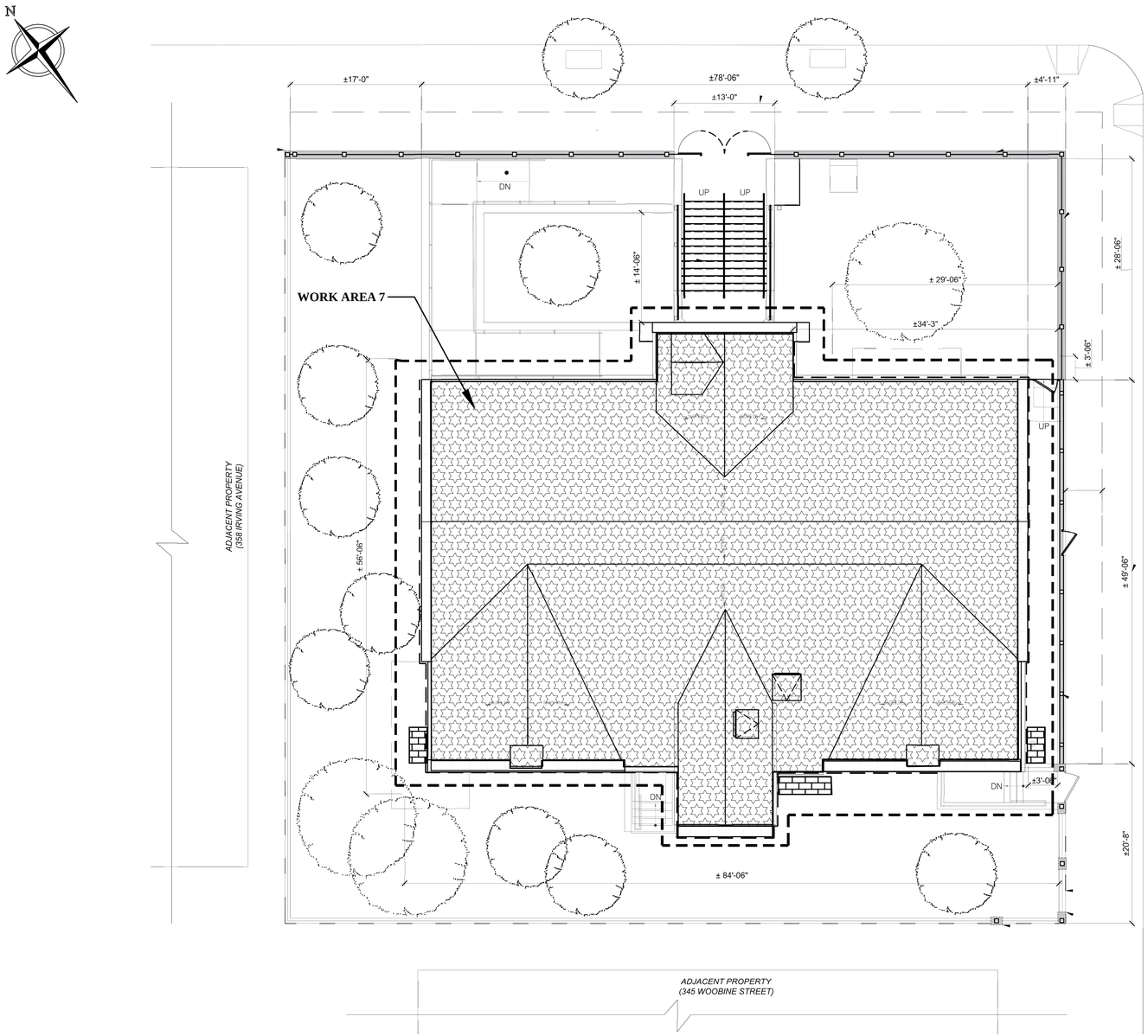
ASBESTOS ABATEMENT MEZZANINE FLOOR PLAN

DRAWN BY: J. GARCIA	SCALE: SEE BAR SCALE
CHECKED BY: P. SAHA	DATE: 06/06/2025

DRAWING NUMBER: **H004.00**

DRAWING NUMBER: 4 OF 5

CONSULTANTS PROJECT #: US0023336.4152



1 H005.00 ROOF / SITE PLAN

0' 4' 8' 16'

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

LEGEND

LOCATION OF ASSUMED ASBESTOS CONTAINING FELT/TAR PAPER BELOW SLATE SHINGLES - 5,100 SF; ROOF PATCH CAULK (WHITE/BLACK) - 120 SF; AND ROOF TAR FLASHING - 600 SF.

LOCATION OF ASBESTOS CONTAINING LEAD DRAIN PIPE SEAL (WHITE) - 4 SF.

WORK AREA BOUNDARY

WORK AREA	REMOVAL PROCEDURES	APPROXIMATE SQUARE FEET (SQ. FT.)	APPROXIMATE LINEAR FEET LN. FT.)
7	NYCDEP SECTION § 1-109 ABATEMENT FROM VERTICAL EXTERIOR SURFACES	4 SQ. FT. OF LEAD DRAIN PIPE SEAL (WHITE)	
	NYCDEP SECTION § 1-107 FOAM PROCEDURES FOR ROOF REMOVAL	5,100 SQ. FT. OF FELT PAPER BELOW SLATE SHINGLES - ASSUMED ACM	
		600 SQ. FT. OF ROOF TAR FLASHING - ASSUMED ACM	
		120 SQ. FT. OF ROOF PATCH CAULK (WHITE/BLACK) - ASSUMED ACM	

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DRAWING TITLE:

ASBESTOS ABATEMENT ROOF / SITE PLAN

DRAWN BY: J. GARCIA
CHECKED BY: P. SAHA
SCALE: SEE BAR SCALE
DATE: 06/06/2025
DRAWING NUMBER: **H005.00**
DRAWING NUMBER: 5 OF 5

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