RHODES HALL B50 LAB RENOVATION

Cornell University
Ithaca, NY 14850

INDEX OF DRAWINGS

		SUBMISSION	REV. 1	REV. 2	REV. 3	REV. 4	REV. 5
ARCHITECTURAL							
T-001	INDEX OF DRAWINGS						
T-002	SYMBOLS, NOTES & ABBREVIATIONS						
T-003	ACCESSIBILITY NOTES & DETAILS						
T-100	AREA OF WORK & CODE INFORMATION - BASEMENT						
A-100	CONSTRUCTION PLAN AND RCP - BASEMENT						
A-121	POWER & COMMUNICATION PLAN AND FURNITURE & EQUIPMENT - BASEMENT						
A-201	INTERIOR ELEVATIONS						
A-400	DETAILS						
A-401	DETAILS						
A-402	DETAILS						
A-601	FINISH AND DOOR SCHEDULE						
A-602	SIGNAGE						
MECHANICAL							
M-000	GENERAL NOTES AND SYMBOLS LIST - HVAC						
M-010	OVERALL BASEMENT FLOOR PLAN - HVAC						
M-100	PARTIAL BASEMENT PLANS - DUCTWORK						
M-200	PARTIAL BASEMENT PLANS - PIPING						
M-300	DETAILS AND SCHEDULES - HVAC						
ELECTRICAL							
E-000	GENERAL NOTES, SYMBOLS LIST & DETAILS - ELECTRICAL						
E-100	PARTIAL BASEMENT PLANS - ELECTRICAL						
E-110	TRANSFORMER RELOCATION PLAN - ELECTRICAL						
TN-000	GENERAL NOTES, SYMBOLS LIST, DETAILS & PARTIAL BASEMENT PLAN - NETWORK						
TY-000	GENERAL NOTES, SYMBOLS LIST, DETAILS & PARTIAL BASEMENT PLAN - SECURITY						

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Key Plan:

Seal:

REGISTERED ARCHITECT
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T-001

INDEX OF DRAWINGS

Scale:
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Rhodes Hall
B50 Lab Renovation

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ABBREVIATIONS:

&	AND
@	AT
A	ASSOCIATE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT/ACOUSTICAL
ACM	ASBESTOS CONTAINING MATERIAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE/ADJACENT
AF	ACCESS FLOOR
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERE
ANOD	ANODIZED
AP	ACCESS PANEL
APPD	APPROVED
ARCH	ARCHITECT/ARCHITECTURAL
ASPH	ASPHALT
ASYM	ASYMMETRICAL
AVB	AIR & VAPOR BARRIER
AVG	AVERAGE
BB	BUILDING BOARD
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM/BENCH MARK
BO	BY OTHERS
BRK	BRICK
BSMT	BASEMENT
BTM	BOTTOM
BTW	BETWEEN
BUR	BUILT UP ROOFING
BVL	BEVEL
CAB	CABINET
CC	CENTER TO CENTER
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CJ	CONTROL JOINT
CL	CLOSER
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
COL(S)	COLUMN(S)
COMM	COMMUNICATION
CONC	CONCRETE
COND	CONDUIT
CONF	CONFERENCE
CONN	CONNECTION(S)
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CP	CIRCUIT PANEL
CPT	CARPET
CR	COLD ROLLED
CRS	COURSE(S)
CSO	CASED OPENING
CT	CERAMIC TILE
CTAI	COOLING TOWER AIR INTAKE
CTR	CENTER
CU	CUBIC
CW	COLD WATER
CY	COPY
D	DEEP/DEPTH
DBL	DOUBLE
DC	DIRECT CURRENT
DEMO	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER/DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DL	DEAD LOAD
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DWG	DRAWING
(E)	EXISTING TO REMAIN
(ER)	EXIST. TO BE REMOVED
(ERR)	EXIST. TO BE REMOVED & RELOCATED
E	EAST
EA	EACH
EC	EMPTY CONDUIT
EEC	EXISTING EXPOSED CONSTRUCTION
EF	EXHAUST FAN
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EL	ELEVATION(S)
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTICAL METALLIC TUBING
ENCL	ENCLOSURE
EQ	EQUAL
EWC	ELECTRICAL WATER COOLER
EXH	EXHAUST
EXIST, EX	EXISTING
EXP BT	EXPANSION BOLT
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FILE
F.O.	FACE OF
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FP	FIRE PROOF
FPB	FIRE PULL BOX
FPSC	FIRE PROOF SELF CLOSING
FR	FRAME
FSP	FIRE STANDPIPE
FT	FOOT
FTG	FOOTING
FWC	FABRIC WALL COVERING
GA	GAUGE
GALV	GALVANIZED
GBLK	GYPSUM BLOCK
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GL	GLASS
GR, GD	GRADE
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
HB	HOSE BIBB
HC	HANDICAPPED
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HPL	HIGH PRESSURE LAMINATE
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HVP	HIGH VOLTAGE PANEL
HW	HOT WATER
IBC	INSTALL BY CONTRACTOR
IBO	INSTALL BY OWNER
ID	INSIDE DIAMETER
INCL	INCLUDE / INCLUDING
INSUL	INSULATION
INT	INTERIOR
JBOX	JUNCTION BOX
JS	JAMB SWITCH
JT	JOINT
KW	KILOWATT
LAC	LACQUER
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LH	LEFT HAND
LHRB	LEFT HAND RETURN BEVEL
LL	LIVE LOAD
LSC	LOCKSET CYLINDRICAL
LSM	LOCKSET MORTISED
LT	LIGHT
LV	LOUVER
LVP	LOW VOLTAGE PANEL
M.O.	MASONRY OPENING
MAG	MAGNETIC
MARB	MARBLE
MAS	MASONRY
MAX	MAXIMUM
MC	MAIL CHUTE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MOD-BIT	MODIFIED BITUMINOUS ROOFING
MP	MEASURE POINT / MAISONRY PAINT
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH / NEW
NAT	NATURAL
NEC	NEW EXPOSED CONSTRUCTION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPP	OPPOSITE
PART	PARTITION
PBO	PROVIDED BY PWNER
PCPL	PORTLAND CEMENT PLASTER
PGL	PLATE GLASS
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAR FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
PTDR	PAPER TOWEL DISPENCER
PTG	PAINTING
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PWD	PLYWOOD
(RE)	RELOCATED EXISTING
R/A	RETURN AIR
RAD	REDIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFREGIRATOR
REIN	REINFORCING / REINFORCED
REQD	REQUIRED
RH	RIGHT HAND
RHRB	RIGHT HAND REVERSE BEVEL
RM	ROOM
RO	ROUGH OPENING
RUB	RUBBER
S	SOUTH / SUPPLY
SAFB	SOUND ATTENUATION FIRE BATT
SB	STRAIGHT BASE
SC	SEPARATE CIRCUIT / SELF CLOSING
SCH	SCHEDULE
SEAL	SEALANT
SIM	SIMILAR
SLC	SOLID CORE
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STN	STAIN
STRUCT	STRUCTURE
SUB	SUBSTITUTE
SUSP	SUSPENDED
SVC	SERVICE
SYM	SYMMETRICAL
SYS	SYSTEM
T&G	TONGUE & GROOVE
T.O.	TOP OF
T.O.S.	TOP OF SLAB
TB	TOWEL BAR
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
TEL	TELEPHONE
TGL	TEMPERED GLASS
TH	THRESHOLD
THK	THICK / THICKNESS
THRU	THROUGH
TL	TILE
TPD	TOILET PAPER DISPENSER
TS	TILE START
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
V. PLAS	VENEER PLASTER
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VNR	VENEER
VT	VINYL TILE
W	WEST / WATT
W/	WITH
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WP	WATER PROOF
WR	WATER RECEPTACLE
WS	SET STACK
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
YD	YARD

SYMBOLS:

- 01 — KEYNOTE
- 01 / A-001 — DETAIL
- 01 / A-001 — SECTION
- 1 / 2 A-001 4 / 3 — ELEVATIONS
- FINISH FL. X'-X" — VERTICAL ELEVATION
- 00 — PARTITION TYPE
- ROOM NAME / 000 — ROOM NAME & NUMBER
- DOOR # — DOOR NUMBER
- WINDOW # / ROOM # — WINDOW NUMBER
- 1 — REVISION NUMBER
- ℄ — CENTERLINE
- ALIGN — ALIGN SURFACES
- EQ. EQ. — EQUAL DIMENSIONS
- CONCRETE
- GYPSUM BOARD
- WOOD
- PLYWOOD
- RIGID INSULATION
- BATT INSULATION
- STEEL
- ALUMINUM
- MASONRY

GENERAL NOTES:

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, & LOCAL LAWS AND ORDINANCES.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES, REGULATIONS, AND INSTRUCTIONS OF THE OWNER.
3. DIMENSIONS AND LOCATIONS OF WORK SHALL BE DETERMINED BY WRITTEN DIMENSIONS ONLY. DIMENSIONS ARE TAKEN TO FINISH SURFACES OF GWB, INSIDE SURFACE OF GLASS, CENTERLINES OF STEEL, AND THE INSIDE EDGE OF NOMINAL DOOR OPENINGS, UNLESS OTHERWISE INDICATED. NOTIFY ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO THE START OF WORK.
4. THE SITE SHALL BE KEPT CLEAR OF DEBRIS AND IN ORDER AT ALL TIMES. REFUSE TO BE REMOVED DAILY.
5. ANY FIREPROOFING OR PROTECTION SYSTEMS IN EXISTING BUILDING DISTURBED BY WORK SHALL BE REPAIRED AND/OR MAINTAINED TO PROVIDE THE EXISTING RATING OR DEGREE OF PROTECTION (UNLESS OTHERWISE NOTED).
6. ALL SERVICES AND UTILITIES WHICH SERVE ACTIVE FACILITIES SHALL NOT BE INTERRUPTED. INCLUDING BUT NOT LIMITED TO: FIRE PROTECTION, WATER, AND ELECTRICAL. COORDINATE SWITCHOVERS WITH OWNER. CONFIRM IN WRITING SCHEDULING AT LEAST 72 HOURS IN ADVANCE OF EVERY ACTIVE SHUT DOWN OR SWITCHOVER.
7. FOR REQUIRED PROJECT SCHEDULE. SEE THE PROJECT MANUAL.

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Seal:

REGISTERED ARCHITECT — RICHARD LIPPINCOTT MCELHINEY — 018324 — STATE OF NEW YORK

T-002

SYMBOLS, NOTES & ABBREVIATIONS

Scale: 1/4" = 1'-0"
Issue Date 06-15-2026

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B50 Lab Renovation

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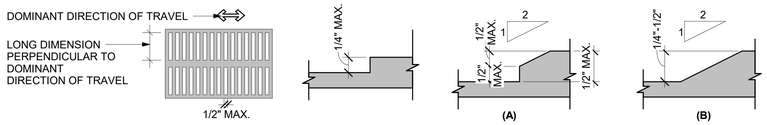
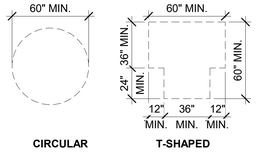


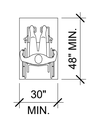
2010 ADAAG FIG. 302.3
2017 ICC A117.1 FIG. 302.3
ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

2010 ADAAG FIG. 303.2
2017 ICC A117.1 FIG. 303.2
VERTICAL CHANGES IN LEVEL

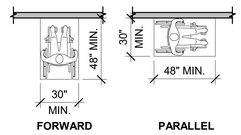
2010 ADAAG FIG. 303.3
2017 ICC A117.1 FIG. 303.2(A) & 303.2(B)
BEVELED CHANGES IN LEVEL



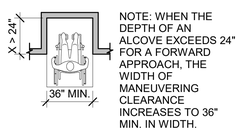
2010 ADAAG FIG. 304.3.2
2017 ICC A117.1 FIG. 304.3.1.2 & 304.3.2.2
SIZE OF TURNING SPACE



2010 ADAAG FIG. 305.3
2017 ICC A117.1 FIG. 305.3.2
CLEAR FLOOR AND GROUND SPACE

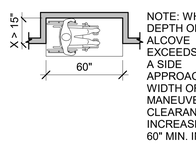


2010 ADAAG FIG. 305.5
2017 ICC A117.1 FIG. 305.5
POSITION OF CLEAR FLOOR OR GROUND SPACE



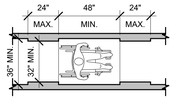
NOTE: WHEN THE DEPTH OF AN ALCOVE EXCEEDS 24" FOR A FORWARD APPROACH, THE WIDTH OF MANEUVERING CLEARANCE INCREASES TO 36" MIN. IN WIDTH.

2010 ADAAG FIG. 305.7.1
2017 ICC A117.1 FIG. 305.7(A)
MANEUVERING CLEARANCE IN ALCOVE, FORWARD APPROACH



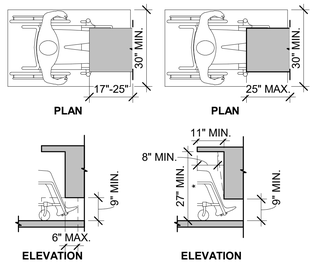
NOTE: WHEN THE DEPTH OF AN ALCOVE EXCEEDS 15" FOR A SIDE APPROACH, THE WIDTH OF MANEUVERING CLEARANCE INCREASES TO 60" MIN. IN WIDTH.

2010 ADAAG FIG. 305.7.2
2017 ICC A117.1 FIG. 305.7(B)
MANEUVERING CLEARANCE IN ALCOVE, PARALLEL APPROACH



2010 ADAAG FIG. 403.5.1
2017 ICC A117.1 FIG. 403.5
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

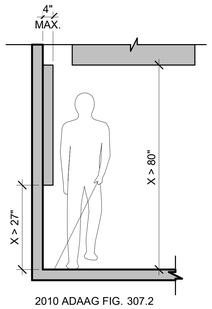
OPENINGS AND CHANGES IN FLOOR OR GROUND SURFACES
12" = 1'-0"



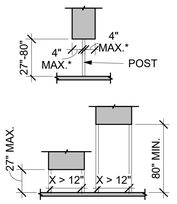
*KNEE CLEARANCE FOR CHILDREN SHALL BE 24".

2010 ADAAG FIG. 306.2
2017 ICC A117.1 FIG. 306.2
TOE CLEARANCE

2010 ADAAG FIG. 306.3
2017 ICC A117.1 FIG. 306.3
KNEE CLEARANCE



2010 ADAAG FIG. 307.2
2017 ICC A117.1 FIG. 307.2
LIMITS OF PROTRUDING OBJECTS

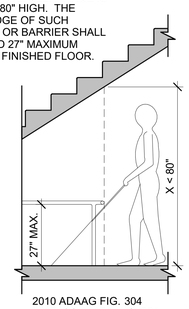


NOTE: WHERE AN OBSTRUCTION IS MOUNTED BETWEEN POSTS, AND THE CLEAR DISTANCE BETWEEN POSTS IS GREATER THAN 12", THE LOWEST EDGE OF SUCH OBSTRUCTION SHALL BE 27" MAX. OR 80" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE.

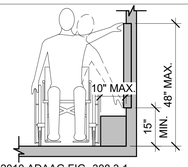
2010 ADAAG FIG. 307.3
2017 ICC A117.1 FIG. 307.3
POST MOUNTED PROTRUDING OBJECTS

WHEELCHAIR TURNING RADIUS AND FLOOR CLEARANCE
1/4" = 1'-0"

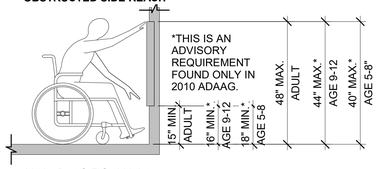
NOTE: GUARDRAILS OR BARRIERS SHALL BE PROVIDED WHEN VERTICAL CLEARANCE IS LESS THAN 80" HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27" MAXIMUM ABOVE THE FINISHED FLOOR.



2010 ADAAG FIG. 304
2017 ICC A117.1 FIG. 304
VERTICAL CLEARANCE

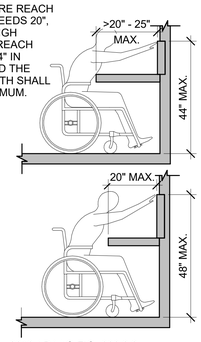


2010 ADAAG FIG. 308.3.1
2017 ICC A117.1 FIG. 308.3.1
OBSTRUCTED SIDE REACH

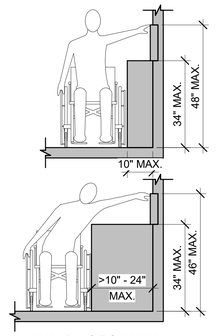


2010 ADAAG FIG. 308.2.1
2017 ICC A117.1 FIG. 308.2.1
UNOBSTRUCTED FORWARD REACH

NOTE: WHERE REACH DEPTH EXCEEDS 20", THE MAX. HIGH FORWARD REACH SHALL BE 48" IN HEIGHT, AND THE REACH DEPTH SHALL BE 25" MAXIMUM.



2010 ADAAG FIG. 308.2.2
2017 ICC A117.1 FIG. 308.2.2
OBSTRUCTED HIGH FORWARD REACH

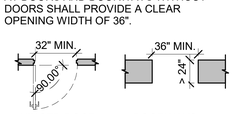


2010 ADAAG FIG. 308.3.2
2017 ICC A117.1 FIG. 308.3.2
OBSTRUCTED HIGH SIDE REACH

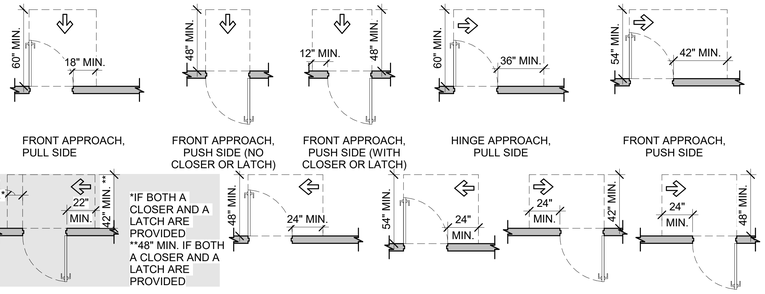
NOTES:
- WHERE REACH DEPTH EXCEEDS 10", THE HIGH SIDE REACH SHALL BE 46" MAXIMUM, FOR A REACH DEPTH OF 24" MAXIMUM.
- OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN FIGURES 308.1 THROUGH 308.1, AS REQUIRED.

CLEARANCE AND OBSTRUCTIONS
1/2" = 1'-0"

NOTE:
- THE WIDTH OF THE MINIMUM CLEAR DIMENSION SHOWN IN FIGURE A IS MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP WHEN THE DOOR IS OPEN AT A 90 deg. ANGLE.
- OPENINGS MORE THAN 24" IN DEPTH AT DOORS AND DOORWAYS WITHOUT DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 36".



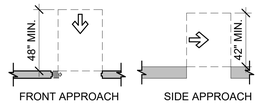
2010 ADAAG FIG. 404.2.3
2017 ICC A117.1 FIG. 404.2.2
CLEAR WIDTH OF DOORWAYS

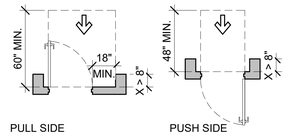


2010 ADAAG FIG. 404.2.3
2017 ICC A117.1 FIG. 404.2.2
MANEUVERING CLEARANCE (MANUAL SWING DOORS & GATES)

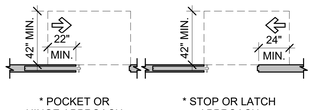
***2017 ICC A117.1 REQUIRES ADDITIONAL 12" MANEUVERING CLEARANCE BEYOND LATCH SIDE (NOT REQUIRED BY 2010 ADAAG) AND THEREFORE PROVIDES GREATER ACCESSIBILITY.

*STRICTER 2010 ADAAG REQUIREMENTS (NOT REQUIRED BY 2017 ICC A117.1)

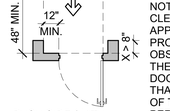




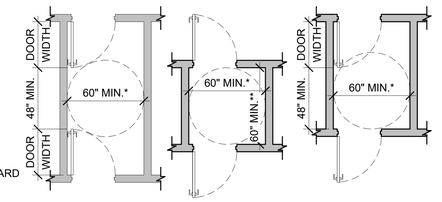
NOTE: MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18" OF THE LATCH SIDE OF THE DOORWAY PROJECTS MORE THAN 8" BEYOND THE FACE OF THE DOOR, MEASURED PERPINDICULAR TO THE FACE OF THE DOOR OR GATE.



2010 ADAAG FIG. 404.2.4.4
2017 ICC A117.1 FIG. 404.2.3.4
MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS



2010 ADAAG FIG. 404.2.4.2
2017 ICC A117.1 FIG. 404.2.3.2
MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

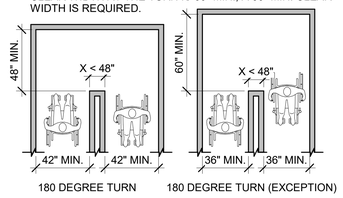


*2017 ICC A117.1 REQUIRES ADDITIONAL 60" CLEAR WIDTH WHERE 2010 ADAAG DOES NOT REQUIRE MIN. WIDTH.
**2010 ADAAG REQUIRES 48" MINIMUM

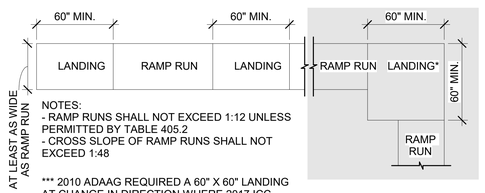
2010 ADAAG FIG. 404.2.6
2017 ICC A117.1 FIG. 404.2.5
DOOR AND GATES IN SERIES*

DOORS AND OPENINGS
1/4" = 1'-0"

NOTE: WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48" WIDE, CLEAR WIDTH SHALL BE 42" MIN. APPROACHING THE TURN, 48" MIN. AT THE TURN AND 42" LEAVING THE TURN. WHERE THE CLEAR WIDTH AT THE TURN IS 60" MIN., A 36" MIN. CLEAR WIDTH IS REQUIRED.



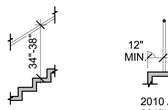
2010 ADAAG FIG. 403.5.2
2017 ICC A117.1 FIG. 403.5.1
CLEAR WIDTH AT TURN

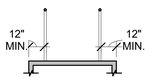


NOTES:
- RAMP RUNS SHALL NOT EXCEED 1:12 UNLESS PERMITTED BY TABLE 405.2
- CROSS SLOPE OF RAMP RUNS SHALL NOT EXCEED 1:48

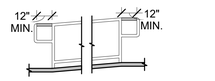
*** 2010 ADAAG REQUIRED A 60" X 60" LANDING AT CHANGE IN DIRECTION WHERE 2017 ICC A117.1 REQUIRES EITHER A T-TYPE OR TURNING CIRCLE COMPLYING WITH SECTION 304.3, THUS 2010 ADAAG REQUIREMENTS PROVIDE GREATER ACCESSIBILITY.

2010 ADAAG FIG. 405.7
2017 ICC A117.1 FIG. 405.7
RAMP LANDINGS

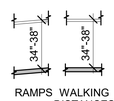


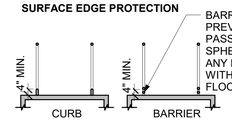


2010 ADAAG FIG. 405.9.1
2017 ICC A117.1 FIG. 405.9.1
EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION



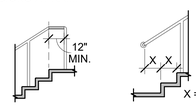
2010 ADAAG FIG. 505.10
2017 ICC A117.1 FIG. 505.10.1
TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMP



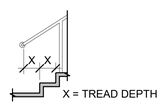


2010 ADAAG FIG. 505.4
2017 ICC A117.1 FIG. 505.4
HANDRAIL HEIGHT

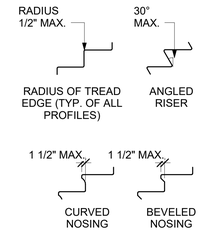
2010 ADAAG FIG. 405.9.2
2017 ICC A117.1 FIG. 505.
405.9.2
RAMP EDGE PROTECTION



2010 ADAAG FIG. 505.10.2
2017 ICC A117.1 FIG. 505.10.2
TOP HANDRAIL EXTENSIONS AT STAIRS



2010 ADAAG FIG. 505.10.3
2017 ICC A117.1 FIG.505.10.3
BOTTOM HANDRAIL EXTENSIONS AT STAIRS



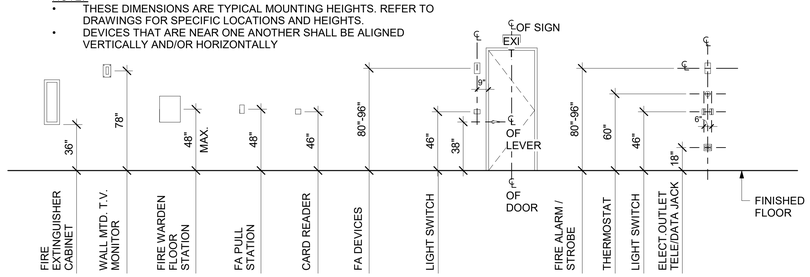
2010 ADAAG FIG. 504.2
2017 ICC A117.1 FIG. 504.2
TREADS AND RISERS AT ACCESSIBLE STAIRWAYS

2010 ADAAG FIG. 504.5
2017 ICC A117.1 FIG. 504.5
STAIR NOSING

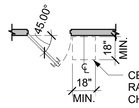
STAIR NOSING
1/2" = 1'-0"

RAMPS, STAIRS AND LANDINGS
1/4" = 1'-0"

NOTE:
- THESE DIMENSIONS ARE TYPICAL MOUNTING HEIGHTS. REFER TO DRAWINGS FOR SPECIFIC LOCATIONS AND HEIGHTS.
- DEVICES THAT ARE NEAR ONE ANOTHER SHALL BE ALIGNED VERTICALLY AND/OR HORIZONTALLY



TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"



2010 ADAAG FIG. 703.4.2
2017 ICC A117.1 FIG. 703.3.11
LOCATION OF TACTILE SIGNS AT DOORS

NOTE:
- WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.
- SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN. CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEG. OPEN POSITION.

EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

LOCATION OF TACTILE SIGNS AT DOORS
1/4" = 1'-0"

GENERAL NOTES:

- THE DETAILS ON SHEETS T-004 COMBINE THE REQUIREMENTS OF ICC A117.1 - 2017 AND THE 2010 ADAAG STANDARDS.

- THE TEXT OF ICC A117.1 - 2017 AND THE 2010 ADAAG PREVAILS OVER DRAWN FIGURES.

- WHERE THE NOTATIONS ON T-004 INDICATE A DIFFERENCE BETWEEN THE REQUIREMENTS OF THE 2010 ADAAG AND ICC A117.1 - 2017, FOLLOW THE MORE RESTRICTIVE STANDARD UNLESS INDICATED OTHERWISE.

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Revisions:

CONSTRUCTION DOCUMENTS	06-15-2026

Key Plan:

Seal:

T-003

ACCESSIBILITY NOTES & DETAILS

Scale: As indicated
Issue Date 06-15-2026

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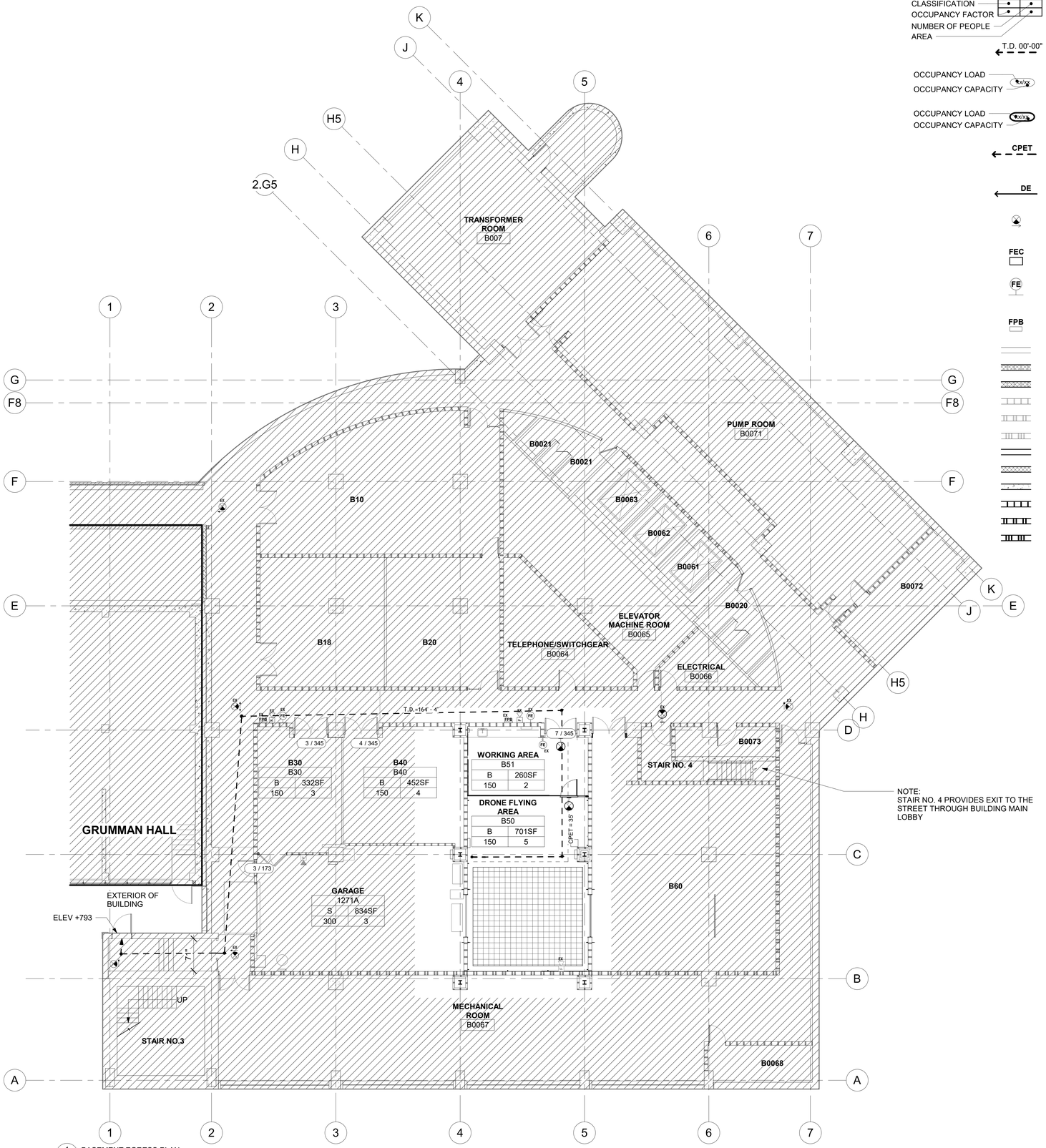
Ithaca, NY 14850



1 T-100 BASEMENT EGRESS PLAN
1/8" = 1'-0"

LEGEND

ROOM NUMBER / ROOM NAME
OCCUPANCY CLASSIFICATION
OCCUPANCY FACTOR
NUMBER OF PEOPLE
AREA — OCCUPANCY LOAD TABLE

T.D. 00'-00" — LONGEST TRAVEL DISTANCE TO EXIT

OCCUPANCY LOAD / OCCUPANCY CAPACITY — OCCUPANT LOAD AT ROOM EGRESS DOOR

OCCUPANCY LOAD / OCCUPANCY CAPACITY — OCCUPANT LOAD AT EXIT (FIRE STAIR, EXTERIOR DOOR)

CPET — COMMON PATH OF EGRESS TRAVEL

DE — DEAD END LENGTH

EXIT SIGN

FEC — FIRE EXTINGUISHER CABINET

FE — WALL MOUNTED FIRE EXTINGUISHER

FPB — FIRE PULL STATION

EXISTING WALL. CONSTRUCTION TO REMAIN

EXISTING 1 HR RATED PARTITION (CMU)

EXISTING 2 HR RATED PARTITION (CMU)

EXISTING 1 HR RATED PARTITION

EXISTING 2 HR RATED PARTITION

EXISTING 3 HR RATED PARTITION

NON RATED PARTITION (GWB)

NON RATED PARTITION (CMU)

NON RATED PARTITION (CONCRETE)

1 HR RATED PARTITION

2 HR RATED PARTITION

3 HR RATED PARTITION

NOTE:

1 - "EX" DENOTES EXISTING

CODES & STANDARDS
2025 NYS EXISTING BUILDING CODE (NYSEBC)
2025 NYS BUILDING CODE (NYSBC)
2025 NYS MECHANICAL CODE (NYSMC)
2025 NYS PLUMBING CODE (NYSPC)
2025 NYS FIRE CODE (NYSFC)
2025 NYS ENERGY CONSERVATION CONSTRUCTION CODE (NYSECCC)
NYS UNIFORM FIRE PREVENTION CODE
NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (NFPA)
THE AMERICANS WITH DISABILITIES ACT (ADA)
AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) STANDARD
CORNELL UNIVERSITY'S, DESIGN AND CONSTRUCTION STANDARDS
FM GLOBAL DATA SHEETS
NATIONAL ELECTRICAL CODE (NEC)
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
AMERICAN NATIONAL STANDARDS INSTITUTE CODE (ANSI)
NFPA 13 - 2022, INSTALLATION OF SPRINKLER SYSTEMS
NFPA 70 - 2023, NATIONAL ELECTRIC CODE
NFPA 72 - 2022, NATIONAL FIRE ALARM CODE
NFPA 80 - 2022, STANDARD FOR FIRE FOORS AND OTHER OPENING PROTECTIVES
NFPA 101 - 2024, LIFE SAFETY CODE
NFPA 110 - 2022, EMERGENCY AND STANDBY POWER SYSTEMS AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

AUTHORITY HAVING JURISDICTION
CITY OF ITHACA, NY

WORK LEVEL
ALTERATION TYPE II (WORK AREAS IS UNDER 50% OF THE FLOOR AREA)

CONSTRUCTION TYPE
IB (EXISTING CONSTRUCTION)

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS:
STRUCTURAL FRAME: 2 HOURS
EXTERIOR BEARING WALL: 2 HOURS
INTERIOR BEARING WALL: 2 HOURS
EXTERIOR NONBEARING WALLS AND PARTITIONS: 1 HOUR
INTERIOR NONBEARING WALLS AND PARTITIONS: 0 HOUR (MAINTAIN EXISTING FIRE RATING OF WALLS)
FLOOR CONSTRUCTION,
INCLUDING SUPPORTING BEAMS AND JOISTS: 2 HOURS
ROOF CONSTRUCTION,
INCLUDING SUPPORTING BEAMS AND JOISTS: 1 HOUR

USE TYPE
B-BUSINESS (EXISTING)
NO CHANGE OF OCCUPANCY

OCCUPANCY & EGRESS NOTES: (2025 BUILDING CODE OF THE STATE OF NEW YORK)

1004 OCCUPANT LOAD
TABLE 1004.5MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
B: BUSINESS	150p./ SF GROSS

PROJECT AREA IS INCLUDED IN BUSINESS ~ 961 SF GROUP BELOW

ROOM #/NAME	DESIGN AREA	OCCUPANT LOAD	NUMBER OF OCCUPANTS
B-50- EXISTING BUSINESS	961 SF	150 SF	7
TOTAL			7

NO CHANGE IN AREA OR OCCUPANT LOAD.

1005 MEANS OF EGRESS SIZING
1005.3.1 STAIRWAYS
THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT.
NO INCREASE IN OCCUPANCY. EXISTING STAIRWAYS COMPLY.

1005.3.2 OTHER EGRESS COMPONENTS
THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.

DOORS AND OTHER COMPONENTS WIDTHS IN AREA OF WORK

LOCATION	OCC. LOAD	WIDTH FACTOR	REQ. WIDTH	PROVIDED WIDTH
WORKING AREA	7	0.2	32"	345"
DRONE FLYING AREA	5	0.2	32"	34"

2 EXITS PROVIDED (EXISTING, NO CHANGE)

1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
TABLE 1006.3.2 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY

OCCUPANT LOAD PER STORY	MIN. NUMBER OF EXITS
1 - 500	2
501 - 1,000	3

2 EXITS PROVIDED (EXISTING, NO CHANGE)

1009 ACCESSIBLE MEANS OF EGRESS
1009.3.2 STAIRWAY WIDTH
STAIRWAYS SHALL HAVE A CLEAR WIDTH OF 48 INCHES MINIMUM BETWEEN HANDRAILS
EXCEPTION: 1. THE CLEAR WIDTH OF 48 INCHES BETWEEN HANDRAILS IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

1010 DOORS, GATES AND TURNSTILES
1010.1.1 SIZE OF DOORS
THE REQUIRED CAPACITY OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES. THE CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES.

EXISTING DOORS CAPACITY COMPLIES.

1011 STAIRWAYS
1011.2 WIDTH AND CAPACITY
NO INCREASE IN OCCUPANCY. EXISTING EXITS COMPLY.

1017 EXIT ACCESS TRAVEL DISTANCE
TABLE 1017.2EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY	WITHOUT SPRINKLER SYSTEM	WITH SPRINKLER SYSTEM
B	200 FEET	300 FEET

BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.
DRONE FLYING AREA TRAVEL DISTANCE: 162' 4" < 300'. TRAVEL DISTANCE COMPLIES.
DRONE FLYING AREA COMMON PATH OF EGRESS TRAVEL: 35'< 100'. TRAVEL DISTANCE COMPLIES.

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Revisions:
CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

Seal:

REGISTERED ARCHITECT — EDWARD LIPPINCOTT MCELHINEY — 018324 — STATE OF NEW YORK

T-100

AREA OF WORK & CODE INFORMATION - BASEMENT

Scale: 1/8" = 1'-0"
Issue Date 06-15-2026

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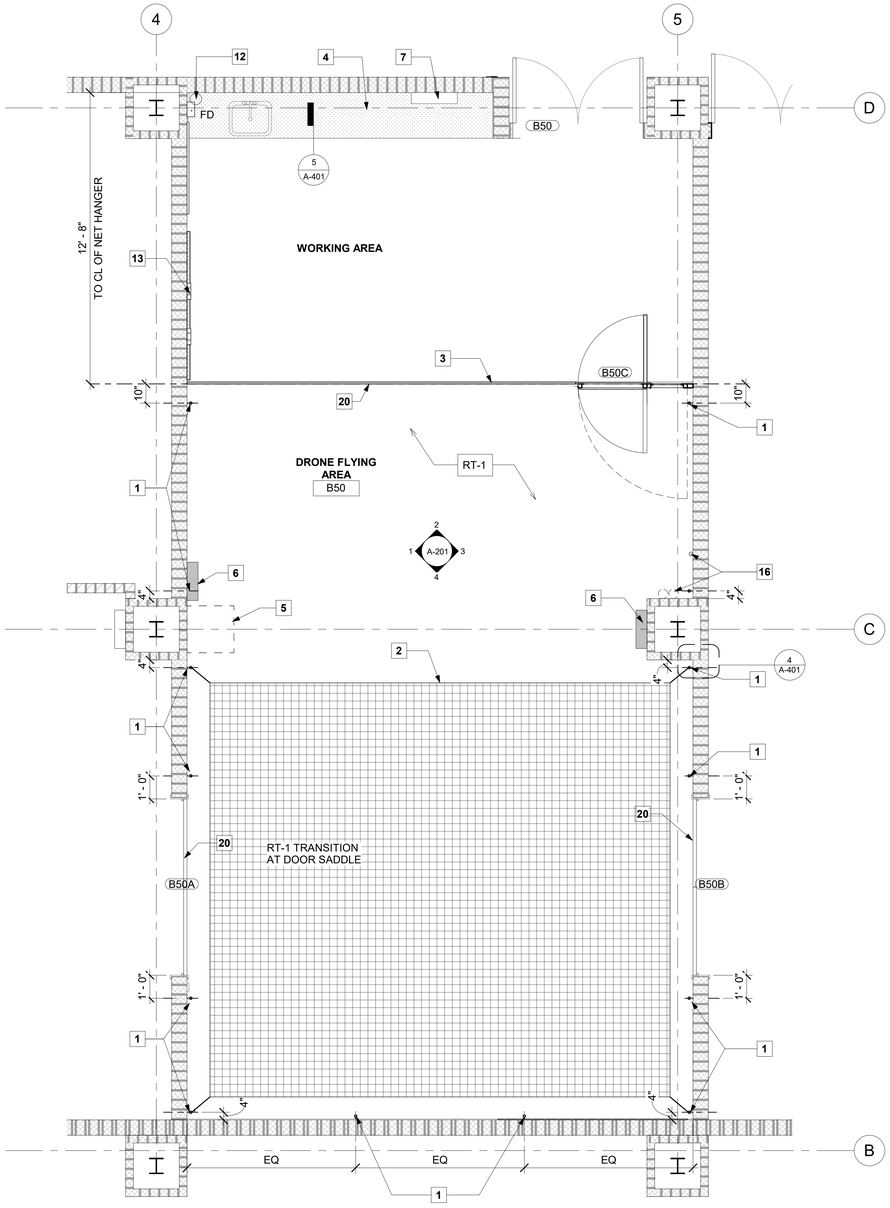
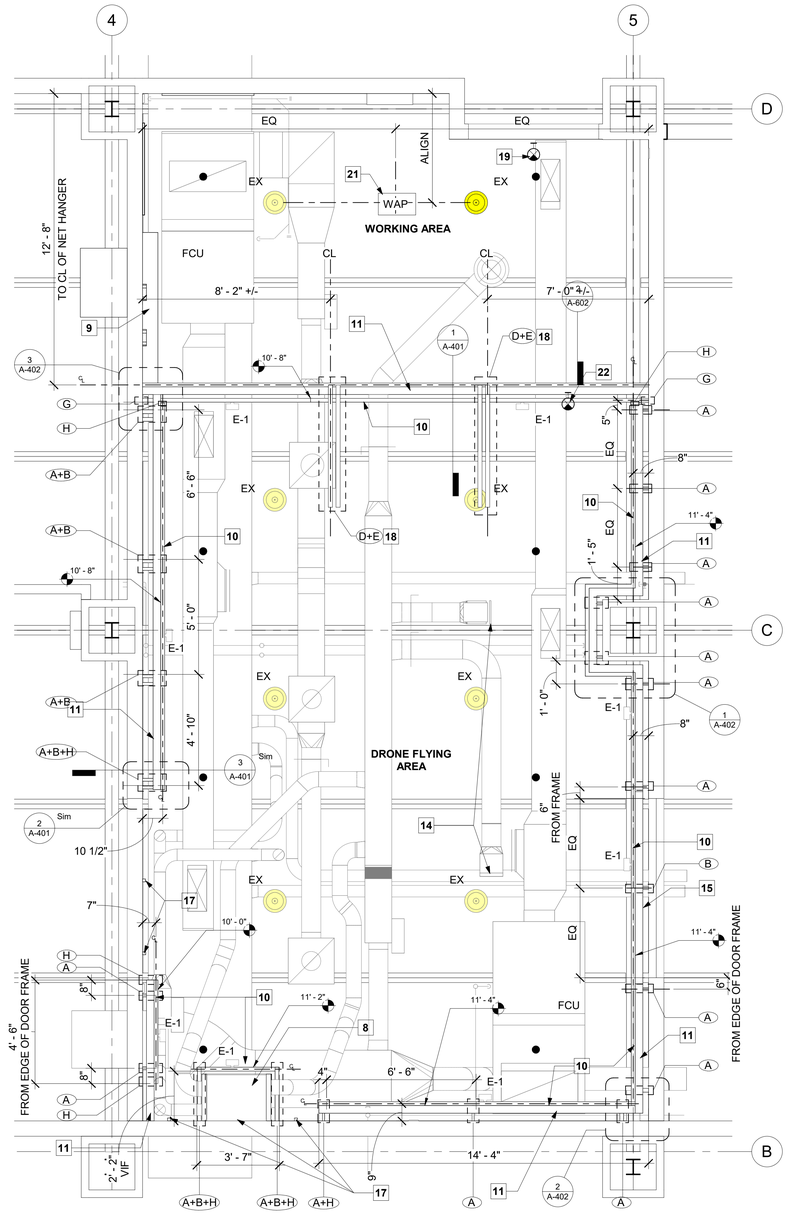


1 A-100 BASEMENT CONSTRUCTION PLAN
3/8" = 1'-0"



2 A-100 BASEMENT REFLECTED CEILING PLAN
3/8" = 1'-0"

GENERAL NOTES

1. SEE ALSO MECHANICAL AND ELECTRICAL DRAWINGS
2. ALL LIGHT FIXTURES ARE EXISTING TO REMAIN
3. CAMERA EQUIPMENT AND INSTALLATION TO BE PROVIDED BY OWNER
4. ALL DIMENSIONS OF PIPE SUPPORTS IN PLAN ARE TO CENTER LINE OF PIPE
5. ALTERNATE NO.1: IN LIEU OF ATTACHING CABLES TO THE SPEED RAILS WITH ZIP TIES, PROVIDE CABLE TRAYS WITHIN THE DRONE FLYING AREA AT THE LOCATIONS INDICATED ON THE DRAWINGS.
6. ALTERNATE NO.2: IN LIEU OF NOT PROVIDING THE FIXED NET ABOVE THE RETRACTABLE CURTAIN, PROVIDE THE FIXED NET AS INDICATED IN THE DRAWINGS.
7. REMOVE EXISTING WALL BASE. REFER TO FINISH SCHEDULE

SYMBOLS CONSTRUCTION PLAN

- EXISTING WALL. CONSTRUCTION TO REMAIN
- EXISTING 1 HR RATED PARTITION (CMU)
- EXISTING 2 HR RATED PARTITION (CMU)
- EXISTING 1 HR RATED PARTITION
- EXISTING 2 HR RATED PARTITION
- EXISTING 3 HR RATED PARTITION
- NON RATED PARTITION (GWB)
- NON RATED PARTITION (CMU)
- NON RATED PARTITION (CONCRETE)
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- DOOR AND FRAME
- INDICATES CASEWORK OR MILLWORK
- RT-1 FLOOR FINISH TAG

KEYNOTES

1. EYE BOLTS FOR HORIZONTAL SAFETY NET ATTACHMENT. COORDINATE FINAL LOCATION WITH OWNER. REFER TO 4/A-400 DETAIL
2. HORIZONTAL NET PROVIDED AND INSTALLED BY OWNER
3. RETRACTABLE SAFETY NET HUNG FROM RAIL. REFER TO A-400 AND A-401 DETAILS
4. EXISTING COUNTER TO REMAIN. INSTALL HARDWOOD EDGE TO COUNTER EDGE WITH CLEAR COATING. PROVIDE ADDITIONAL SUPPORT FOR COUNTERTOP. SEE DETAIL 5/A-400
5. EXISTING ELECTRIC TRANSFORMER TO BE RELOCATED
6. EXISTING ELECTRICAL PANEL TO REMAIN
7. EXISTING CONTROL PANEL TO REMAIN
8. EXISTING DEHUMIDIFIER TO REMAIN
9. BASE BID 2"X8" CABLE TRAY
10. PERIMETER SPEED RAIL TO MOUNT CAMERAS. REFER TO A-400 AND A-401 DETAILS
11. 4"X2" CABLE TRAY FOR WIRING OF CAMERAS INSTALLED BELOW SPEED RAIL. REFER TO A-401 DETAILS. SEE ALTERNATE NO.1
12. INSTALL 2-3/8" BLACK GROMMET BY MASTER CASTER OR APPROVED EQUAL PRODUCT FOR CONDENSATE PIPE PENETRATION. SEE ALSO MECHANICAL DWGS.

KEYNOTES

13. FOUR (4) SS HOSE HANGERS BY GARRET WADE 10" WX6.25" H X 4.75" D
14. VIF. MAXIMUM LENGTH OF NEW DUCT TO MAINTAIN CLEARANCE FROM ADJACENT DUCTS, PIPING, AND SPRINKLER HEADS, AVOIDING DIFFUSER PROXIMITY TO THESE ELEMENTS
15. MAINTAIN 7' 0" REMOVABLE CABLE TRAY ABOVE DOOR. PROVIDE SUPPORT BRACKETS FOR EACH END OF THE REMOVABLE SECTION. SEE ALTERNATE NO.1
16. EXISTING INSULATED PIPES AND CONDUIT IN THIS LOCATIONS TO BE DEMOLISHED
17. PROVIDE J HOOKS. COORDINATE LOCATION OF CABLE RUN WITH EXISTING CONDUITS. MAINTAIN A 6" MIN CLEARANCE ABOVE DOOR FRAME. @ 3' O.C.
18. MOUNT ASSEMBLY TYPES D+E ON THE CL OF ADJACENT STEEL DECK RIBS
19. WALL MOUNTED PHOTOLUMINESCENT EXIT SIGN. CENTER ON DOOR
20. FLOOR FINISH (RT-1) TRANSITION AT DOOR SADDLE AND NET DIVISION
21. CEILING MOUNTED WAP. COORDINATE LOCATION WITH CIT
22. EXIT SIGN. REFER TO 2/A-602 FOR MOUNTING DETAIL

MEP SYMBOLS

- OCCUPANCY/VACANCY SENSOR
- RETURN GRILL
- DIFFUSER
- WAP WIRELESS ACCESS POINT
- CEILING MOUNTED DUPLEX RECEPTACLE

FIRE PROTECTION SYMBOLS

- SPRINKLER HEAD (ALL EXISTING TO REMAIN)
- SIDE WALL SPRINKLER
- EXIT SIGN. HATCH INDICATES LOCATION OF SIGNAGE & ARROWS INDICATE DIRECTION OF NEAREST EXIT.

RCP SYMBOLS

- EX EXISTING LIGHT FIXTURE
- X'-X" HEIGHT

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Revisions:

CONSTRUCTION DOCUMENTS	06-15-2026

Key Plan:

Seal:

REGISTERED ARCHITECT
RICHARD LIPPINCOTT MCELHINEY
018324
STATE OF NEW YORK

A-100

CONSTRUCTION PLAN AND RCP - BASEMENT

Scale: As indicated
Issue Date 06-15-2026

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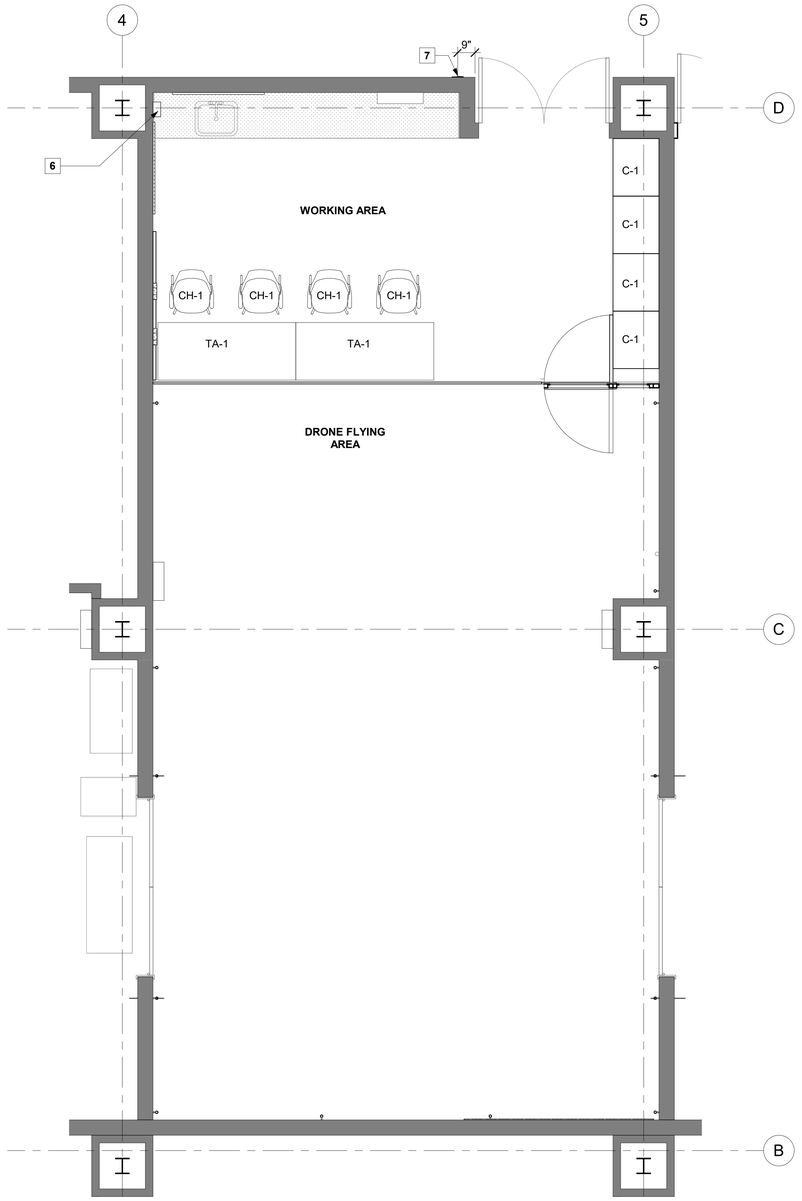
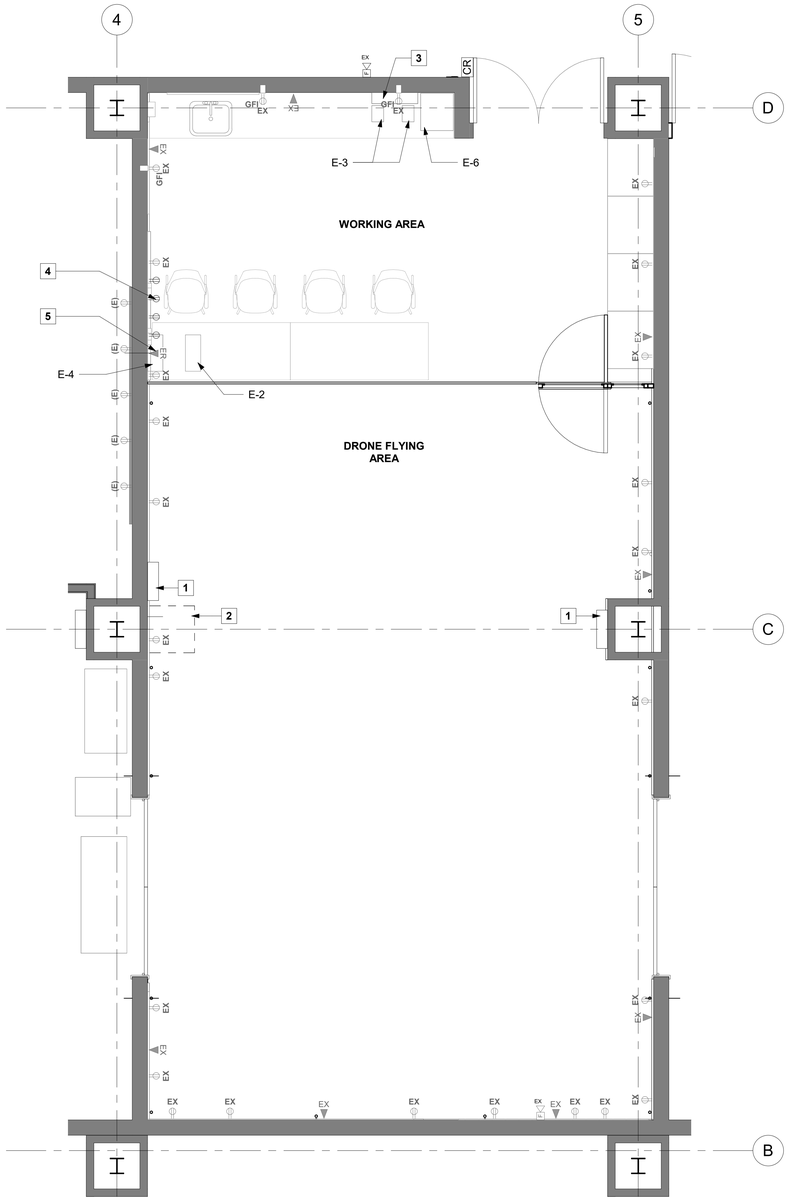


1 A-121 BASEMENT FURNITURE PLAN
3/8" = 1'-0"



2 A-121 BASEMENT POWER, COMMUNICATIONS & EQUIPMENT PLAN
3/8" = 1'-0"

EQUIPMENT SCHEDULE					
TYPE	EQUIPMENT NAME	MANUFACTURER	MODEL	PROVIDED BY	INSTALLED BY
E-1	CAMERA	VICON	VALKYRIE VK6	OWNER	OWNER
E-2	PC	VICON	-	OWNER	OWNER
E-3	BATTERY CHARGER	PRO QUAD	VENOM POWER	OWNER	OWNER
E-4	NETWORK SWITCH	VICON	NETGEAR GS516UP	OWNER	OWNER
E-5	WALL MOUNT FOR NETWORK SWITCH	D-LINK	1U-4U	OWNER	GC
E-6	FIRE SAFETY CABINET	KOXUYIM	2x17x18	OWNER	OWNER
E-8	ROUTER	ASUS	GT-AXE11 000	OWNER	OWNER

FURNITURE SCHEDULE FFS					
TYPE	FURNITURE NAME	MANUFACTURER	MODEL	PROVIDED BY	INSTALLED BY
C-1	CABINET	DURHAM	36X24X78	OWNER me	OWNER
CH-1	CHAIR	HERMAN MILLER	AERON CHAIR	OWNER	OWNER
TA-1	TABLE	FORMASPACE	BASIXtm	OWNER	OWNER

KEYNOTES

1. EXISTING ELECTRICAL PANEL TO REMAIN
2. EXISTING ELECTRIC TRANSFORMER TO BE RELOCATED
3. EXISTING CONTROL PANEL TO REMAIN
4. FOUR (4) DUPLEX RECEPTACLES IN EXISTING WIRE-MOLD RACEWAY SYSTEM. PLACE EQUALLY SPACED BETWEEN EXISTING ADJACENT OUTLETS
5. RELOCATED DATA OUTLET
6. EXISTING TO REMAIN FIRST AID KIT
7. ROOM SIGN. REFER TO 1/A-602 DETAIL

GENERAL NOTES

1. SEE ALSO MECHANICAL AND ELECTRICAL DRAWINGS.
2. ALL LOOSE FURNITURE PROVIDED BY OWNER UNLESS NOTED OTHERWISE.

ELECTRICAL SYMBOLS

- DUPLEX RECEPTACLE
- FLOOR DUPLEX RECEPTACLE
- AV — FLOOR BOX WITH POWER & AV
- J — FLOOR MOUNTED JUNCTION BOX
- GFCI — GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- VOICE/DATA WALL OUTLET
- CEILING MOUNTED DUPLEX RECEPTACLE
- FIRE ALARM SPEAKER/STROBE
- FIRE ALARM SPEAKER
- FIRE ALARM MANUAL PULL STATION
- WAP — WIRELESS ACCESS POINT
- LIGHT SWITCH
- CR — WIRELESS CARD READER

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A-121

POWER & COMMUNICATION PLAN AND FURNITURE & EQUIPMENT - BASEMENT

Scale: As indicated
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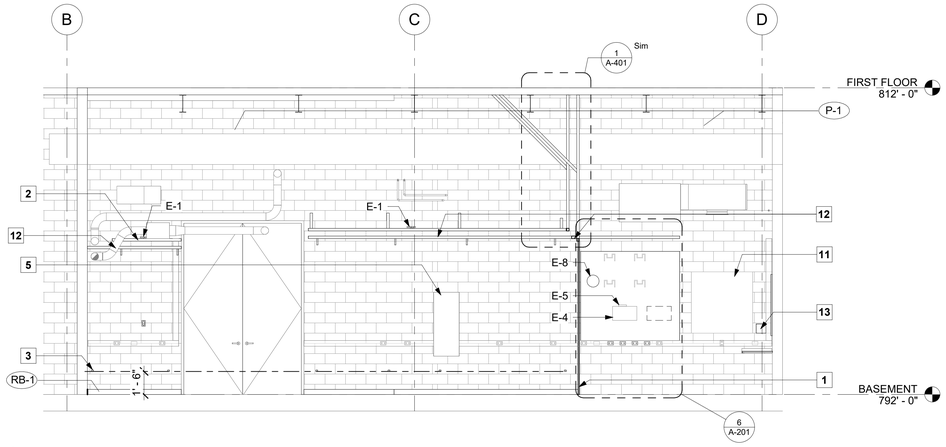
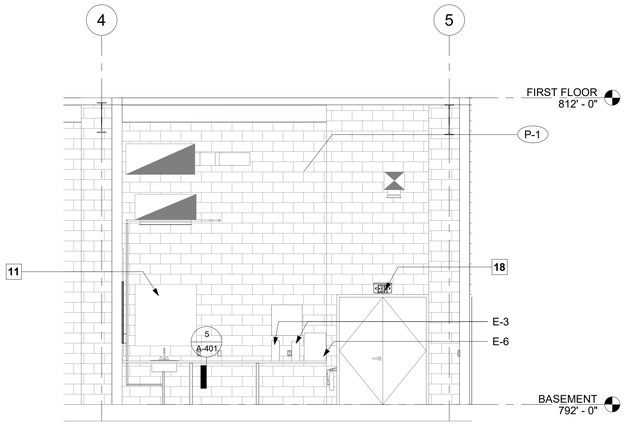
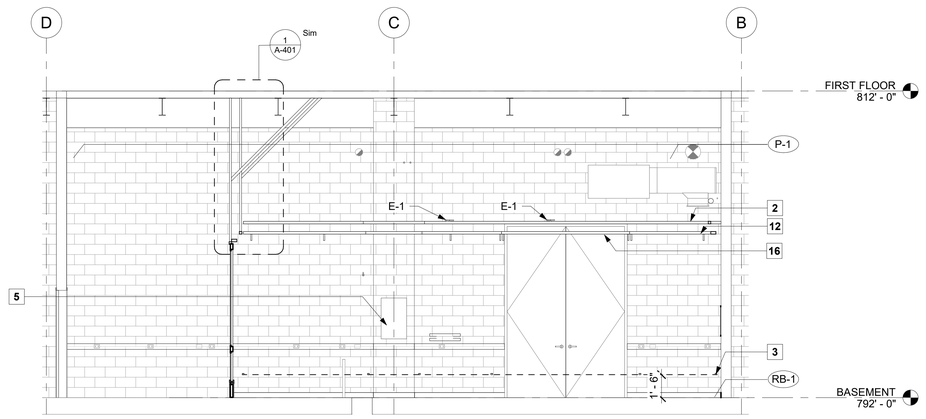


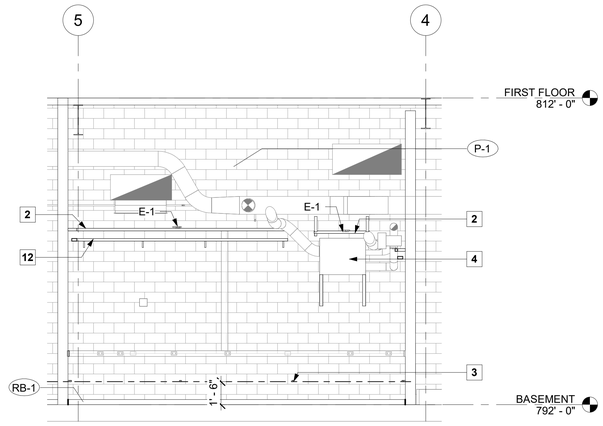
1 A-201 INTERIOR ELEVATION LOOKING WEST
1/4" = 1'-0"



2 A-201 INTERIOR ELEVATION LOOKING NORTH
1/4" = 1'-0"



3 A-201 INTERIOR ELEVATION LOOKING EAST
1/4" = 1'-0"



4 A-201 INTERIOR ELEVATION LOOKING SOUTH
1/4" = 1'-0"

KEYNOTES

1 RETRACTABLE SAFETY NET HUNG FROM RAIL. REFER TO A-400 AND A-401 DETAILS

2 PERIMETER SPEED RAIL TO MOUNT CAMERAS. REFER TO A-400 AND A-401 DETAILS

3 EYE BOLTS FOR HORIZONTAL SAFETY NET ATTACHMENT. COORDINATE FINAL LOCATION WITH OWNER. REFER TO 4/A-400 DETAIL

4 EXISTING DEHUMIDIFIER TO REMAIN

5 EXISTING ELECTRICAL PANEL TO REMAIN

6 INSTALL, PAINT, AND BACK PAINT AC PLYWOOD TO RECEIVE DATA CABLE TERMINATIONS AND SWITCH RACK (RACK BY OWNER). PLYWOOD TO START AT TOP OF RACEWAY AND ALIGN WITH CMU JOINTS AT TOP AND RIGHT SIDE

7 FOUR (4) SS HOSE HANGERS BY GARRET WADE 10" WX6.25" H X 4.75" D

8 FOUR (4) DUPLEX RECEPTACLES IN EXISTING WIRE-MOLD RACEWAY SYSTEM. PLACE EQUALLY SPACED BETWEEN EXISTING ADJACENT OUTLETS

9 MOUNT ASSEMBLY TYPES D+E ON THE CL OF ADJACENT STEEL DECK RIBS

10 METAL MESH GATE. REFER TO A-601 DETAILS

11 EXISTING RELOCATED WHITE BOARD. ALIGN HEIGHT A.F.F. WITH EXISTING TO REMAIN WHITE BOARD ON NORTH WALL

12 4"X2" CABLE TRAY FOR WIRING OF CAMERAS INSTALLED BELOW SPEED RAIL. REFER TO A-401 DETAILS. SEE ALTERNATE NO. 1

13 EXISTING TO REMAIN FIRST AID KIT

14 FIXED SAFETY NET ABOVE CURTAIN TRACK. SEE ALTERNATE NO. 2

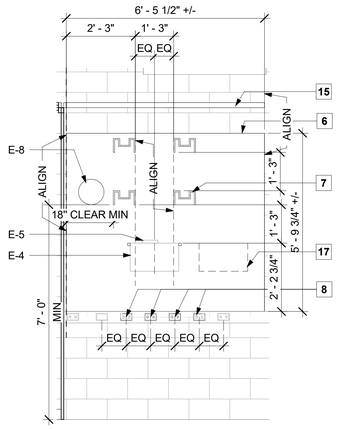
15 BASE BID 2"X8" CABLE TRAY

16 MAINTAIN 7' 0" REMOVABLE CABLE TRAY ABOVE DOOR. PROVIDE SUPPORT BRACKETS FOR EACH END OF THE REMOVABLE SECTION. SEE ALTERNATE NO. 1

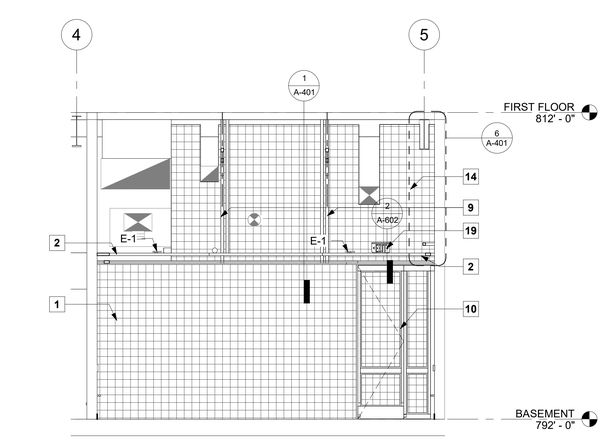
17 SPACE PROVISION FOR FUTURE NETWORK SWITCH

18 WALL MOUNTED PHOTOLUMINESCENT EXIT SIGN. CENTER ON DOOR

19 EXIT SIGN. REFER TO 2/A-602 FOR MOUNTING DETAIL



6 A-201 ENLARGED ELEVATION - WALL MOUNTED EQUIPMENT
1/2" = 1'-0"



5 A-201 INTERIOR ELEVATION NET LOOKING NORTH
1/4" = 1'-0"

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CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

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A-201

INTERIOR ELEVATIONS

Scale: As indicated
Issue Date 06-15-2026

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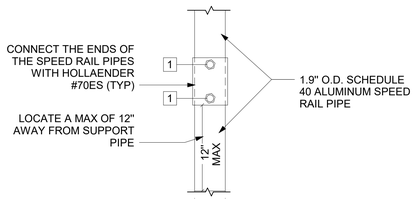
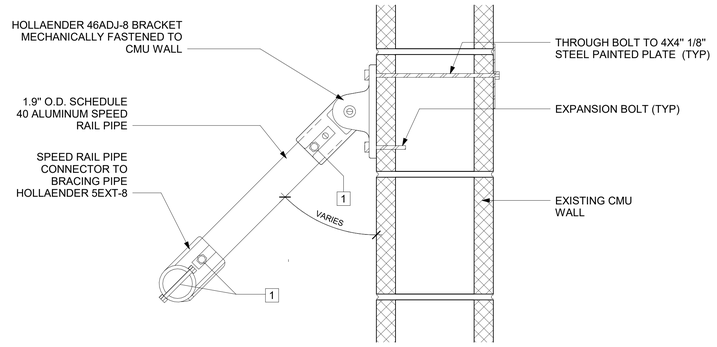
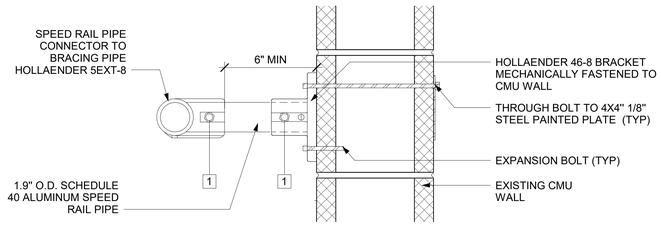


NOTE: CONDITION NOT TAGGED IN PLAN. PROVIDE CONNECTIONS AS REQUIRED

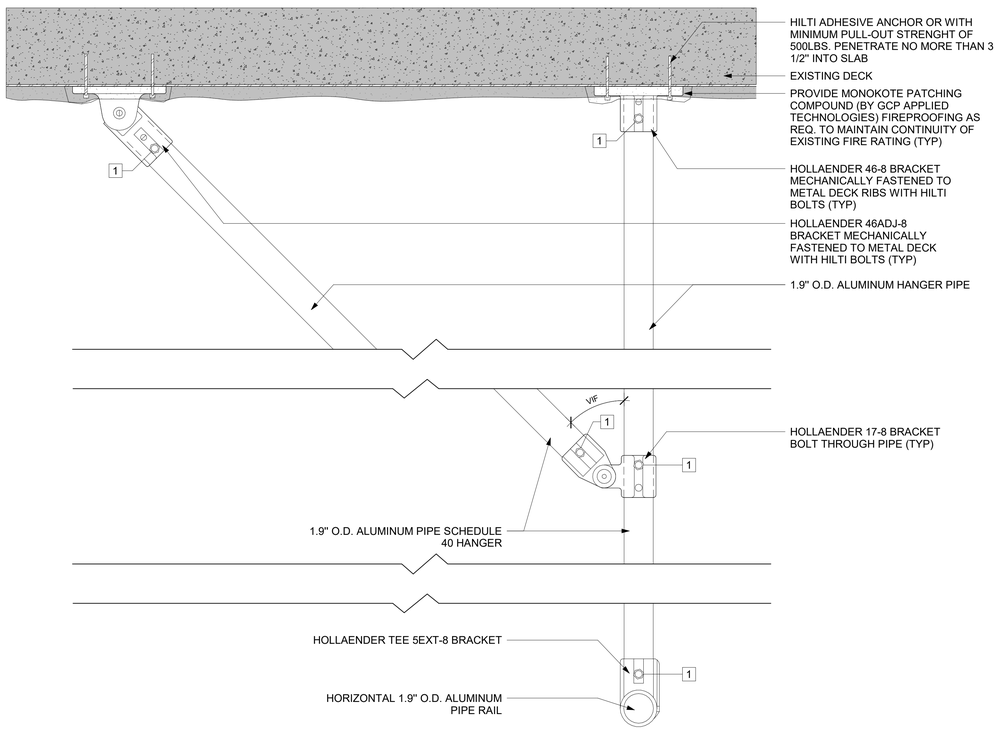
3 A-400 CONNECTION C - PLAND DETAIL
3" = 1'-0"



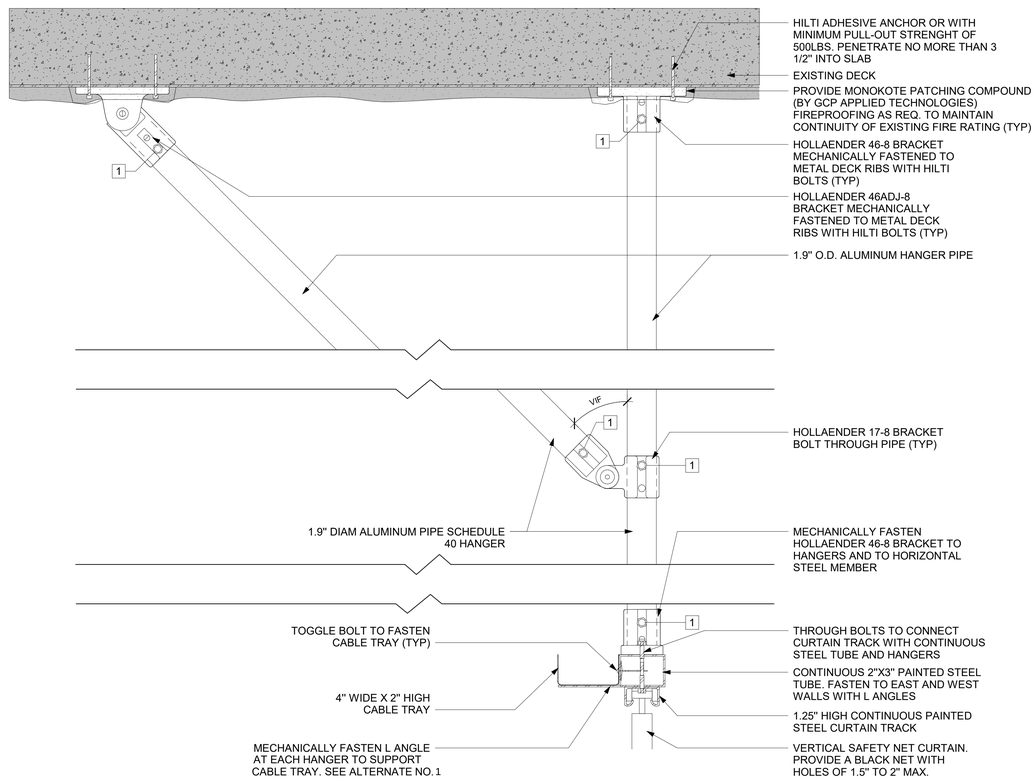
2 A-400 CONNECTION B - SECTION DETAIL
3" = 1'-0"



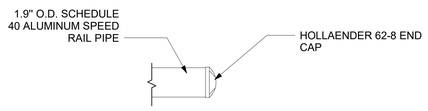
1 A-400 CONNECTION A - SECTION DETAIL
3" = 1'-0"



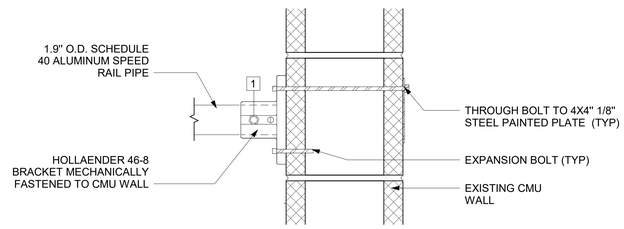
4 A-400 CONNECTION E - SECTION DETAIL
3" = 1'-0"



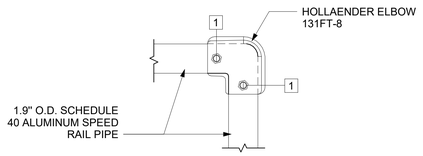
5 A-400 CONNECTION D - SECTION DETAIL
3" = 1'-0"



8 A-400 CONNECTION H - PLAN DETAIL
3" = 1'-0"



7 A-400 CONNECTION G - SECTION DETAIL
3" = 1'-0"



NOTE: CONDITION NOT TAGGED IN PLAN. PROVIDE ELBOWS WHERE REQUIRED.

6 A-400 CONNECTION F - PLAN DETAIL
3" = 1'-0"

KEYNOTES

1 REAM OUT HOLES IN FITTINGS, AND DRILL HOLES IN PIPE. INSTALL 3/8" THROUGH-BOLT

GENERAL NOTES

1. REFER TO PLAN FOR CL OF SPEED RAIL ELEVATION AFF AND DISTANCE TO THE ADJACENT WALL.
2. WHEN APPLYING MONOKOTE PATCHING COMPOUND (BY GCP APPLIED TECHNOLOGIES) INSTALL AS RECOMMENDED BY THE MANUFACTURER.
3. AT ALL WALL PENETRATIONS, PROVIDE UL LISTED FIRESTOPPING APPROPRIATE FOR THE PARTITION TYPE AND INDICATED FIRE RESISTANCE RATING. SEE ALSO SPECIFICATIONS.

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Revisions:
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Key Plan:

Seal:

REGISTERED ARCHITECT RICHARD LIPPINCOTT MCELHINEY 018324 STATE OF NEW YORK

A-400

DETAILS

Scale: As indicated
Issue Date 06-15-2026

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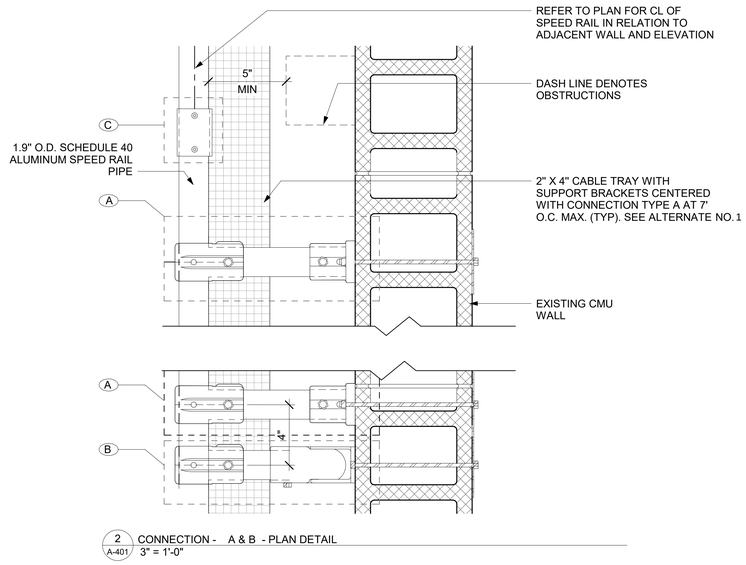
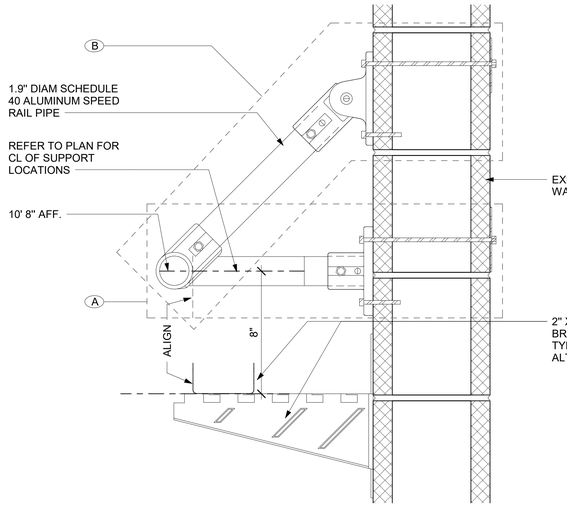
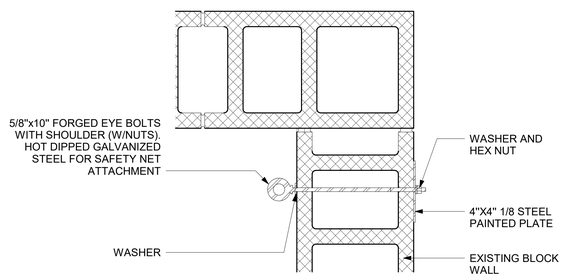
Ithaca, NY 14850



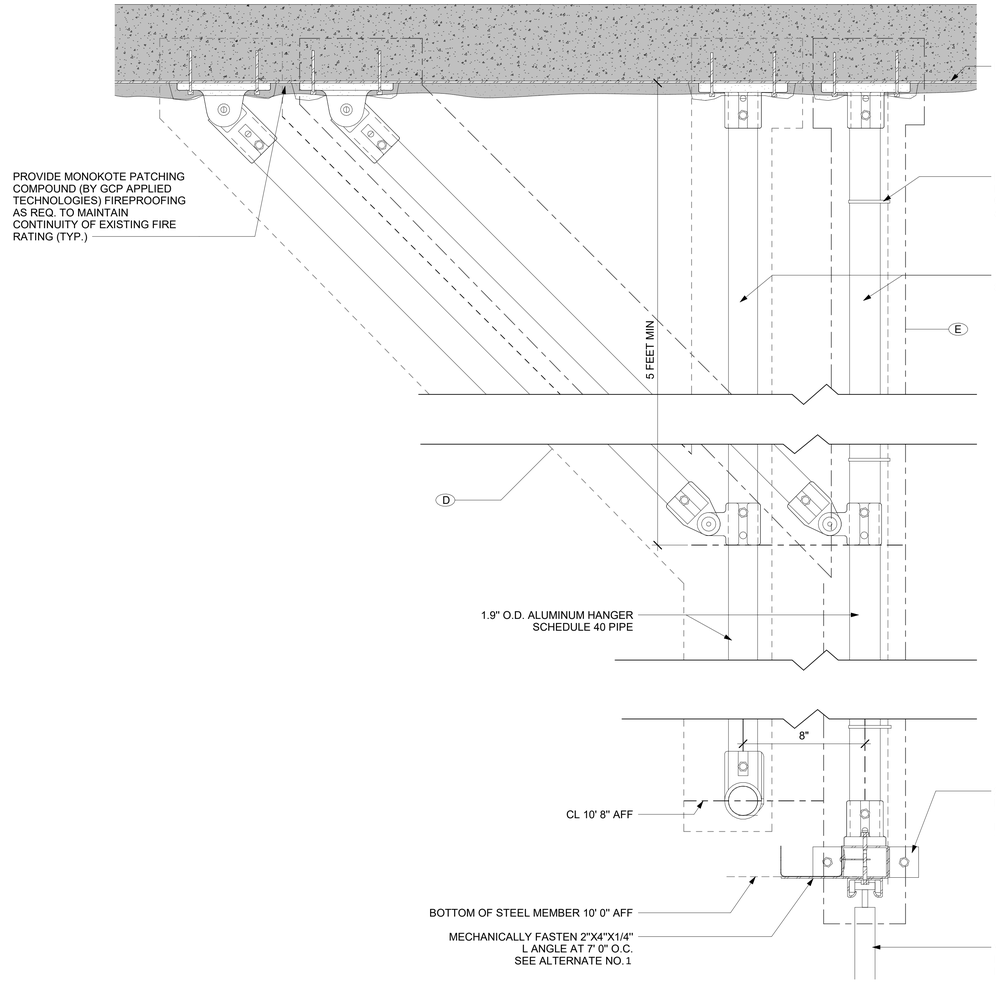
2 A-401 CONNECTION - A & B - PLAN DETAIL
3" = 1'-0"



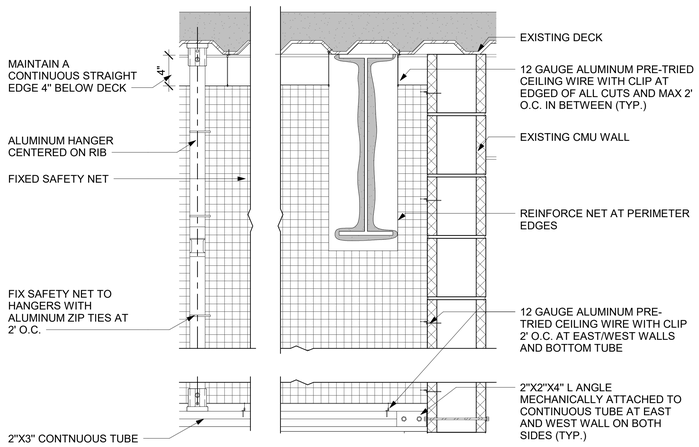
3 A-401 CROSS SECTION DETAIL AT SPEED RAIL
3" = 1'-0"



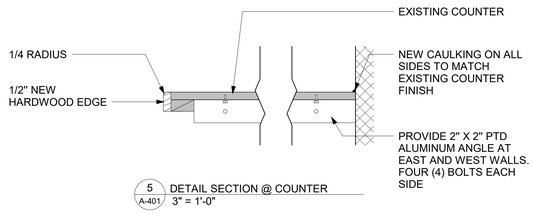
4 A-401 ENLARGED PLAN AT STEEL RINGS
3" = 1'-0"



1 A-401 DETAIL SECTION @ CONNECTIONS D AND E
3" = 1'-0"



6 A-401 DETAIL SECTION @ NET CORNER - ALTERNATE NO. 2
1 1/2" = 1'-0"



5 A-401 DETAIL SECTION @ COUNTER
3" = 1'-0"

GENERAL NOTES

1. REFER TO PLAN FOR CL OF SPEED RAIL ELEVATION AFF AND DISTANCE TO THE ADJACENT WALL
2. WHEN APPLYING MONOKOTE PATCHING COMPOUND (BY GCP APPLIED TECHNOLOGIES) INSTALL AS RECOMMENDED BY THE MANUFACTURER.
3. AT ALL WALL PENETRATIONS, PROVIDE UL LISTED FIRESTOPPING APPROPRIATE FOR THE PARTITION TYPE AND INDICATED FIRE RESISTANCE RATING. SEE ALSO SPECIFICATIONS.

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A-401

DETAILS

Scale: As indicated
Issue Date 06-15-2026

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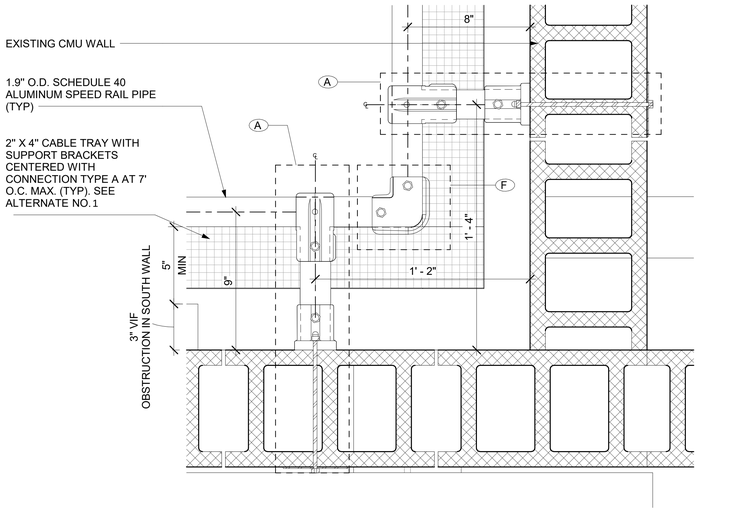
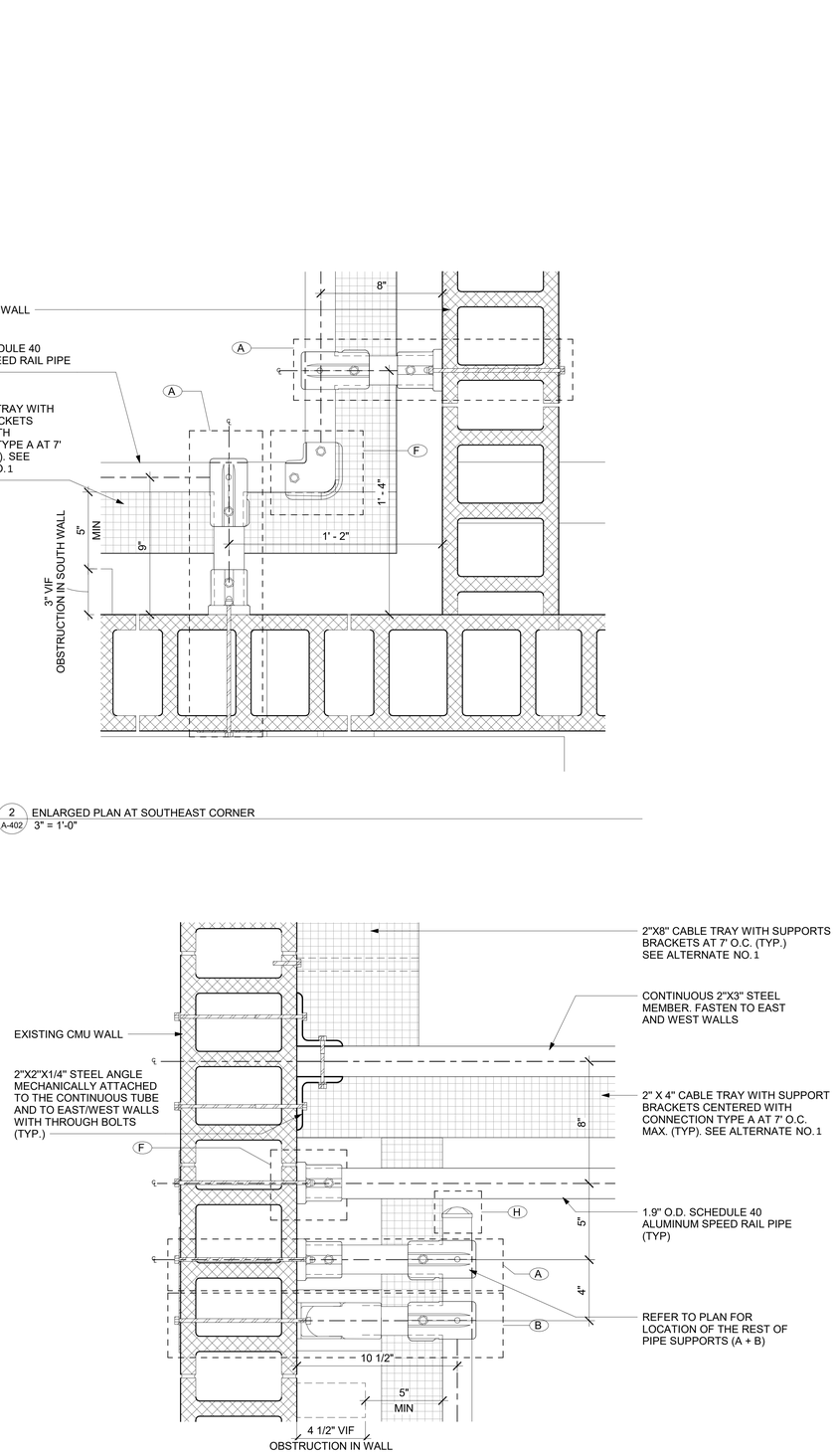
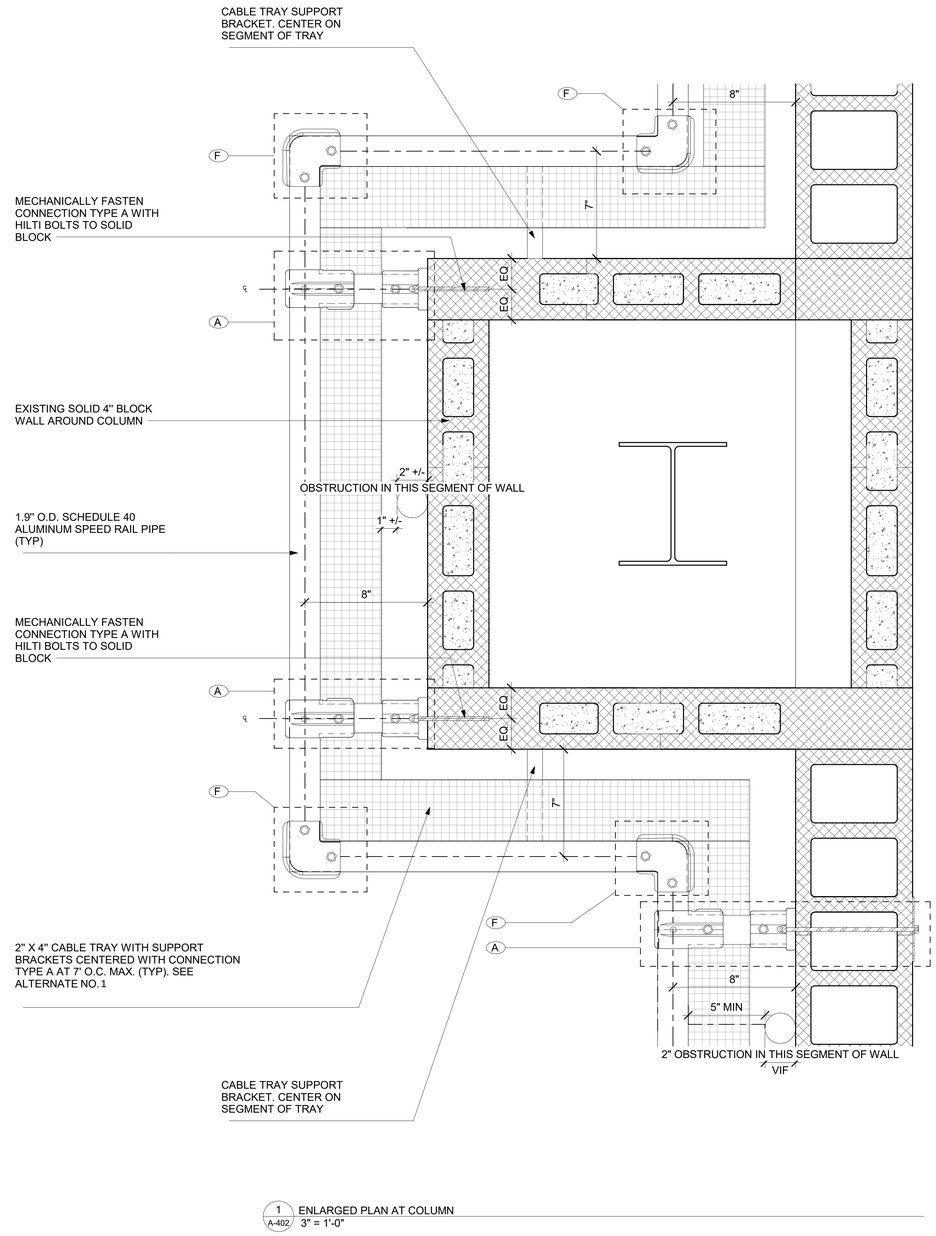


2 / A-402 ENLARGED PLAN AT SOUTHEAST CORNER
3" = 1'-0"



3 / A-402 ENLARGED PLAN AT NET HANGER AND AND SPEED RAIL INTERSECTION
3" = 1'-0"



1 / A-402 ENLARGED PLAN AT COLUMN
3" = 1'-0"

GENERAL NOTES

1. REFER TO PLAN FOR CL OF SPEED RAIL ELEVATION AFF AND DISTANCE TO THE ADJACENT WALL
2. WHEN APPLYING MONOKOTE PATCHING COMPOUND (BY GCP APPLIED TECHNOLOGIES) INSTALL AS RECOMMENDED BY THE MANUFACTURER.
3. AT ALL WALL PENETRATIONS, PROVIDE UL LISTED FIRESTOPPING APPROPRIATE FOR THE PARTITION TYPE AND INDICATED FIRE RESISTANCE RATING. SEE ALSO SPECIFICATIONS.

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Revisions:

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Key Plan:

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A-402

DETAILS

Scale: 3" = 1'-0"
Issue Date 06-15-2026

Rhodes Hall
B50 Lab Renovation

Cornell University
Ithaca, NY 14850

FINISH SCHEDULE

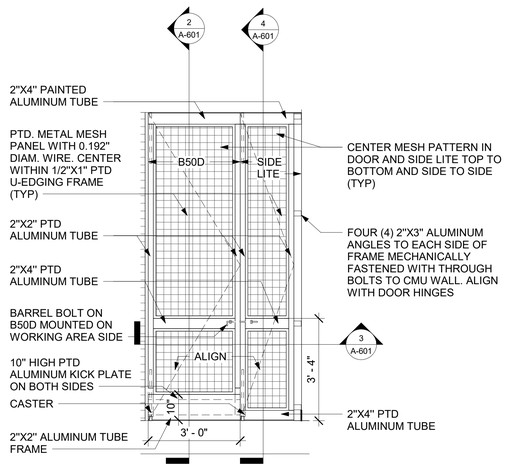
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	COMMENTS
				NORTH	EAST	SOUTH	WEST		
B50	LABORATORY	EX+RT-1	RB-1	P-1	P-1	P-1	P-1	EX	DRONE FLYING AREA FLOOR FINISH TO BE RT-1

FINISH LEGEND

FINISH TAG	MATERIAL	FINISH	SPEC.	COMMENTS
P-1	PAINT	**MATCH EXISTING FINISH**	SECTION 099000 - PAINTING AND FINISHES	PAINT SHEEN TO BE FLAT
P-2	PAINT	**MATCH EXISTING FINISH**	SECTION 099000 - PAINTING AND FINISHES	PAINT DOORS AND FRAMES OF B50A AND B50B ON THE DRONE FLYING AREA SIDE ONLY. EXISTING PAINT ON THE FOORS AND FRAMES AT THE ADJACENT ROOM TO REMAIN. PAINT SHEEN TO BE FLAT
P-3	PAINT	**BLACK HC 190**	SECTION 099000 - PAINTING AND FINISHES	APPLIED TO B50C. FINISH TO BE POWDER COATED
P-4	PAINT	**MATCH ADJACENT SURFACES**	SECTION 099000 - PAINTING AND FINISHES	APPLIED TO STEEL PLATES. PAINT SHEEN TO MATCH ADJACENT SURFACE
P-5	PAINT	**MATCH EXISTING FINISH**	SECTION 099000 - PAINTING AND FINISHES	APPLIED ON BOTH SIDES OF B50 DOOR AND FRAME
RT-1	RUBBER FLOOR	**DROPZONE SPECKLE DZ04 TARKETT SPORTS**	SECTION 096519 - RUBBER TILE FLOORING	PROVIDE TRANSITION FLOORING WHERE INDICATED IN PLAN. EG 40 G 5/16" 40 BLACK DRONE FLYING AREA ONLY
RB-1	4" RUBBER BASE	**TSBT 40 TOELESS BASEWORKS MATTE BLACK**	SECTION 096519 - RUBBER TILE FLOORING	

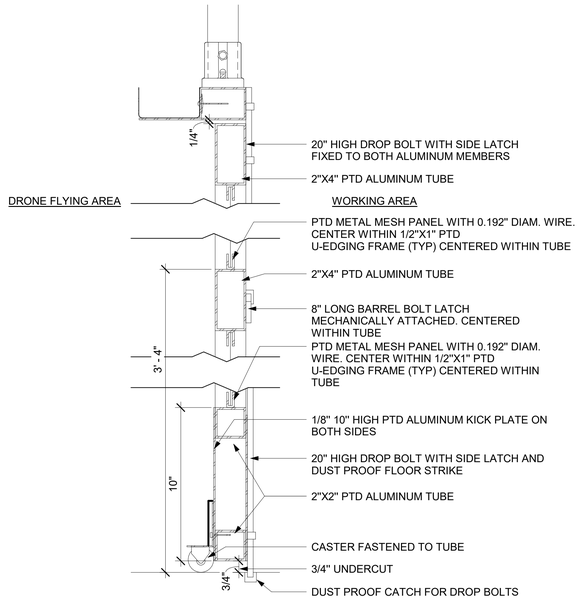
DOOR & FRAME SCHEDULE

DOOR #	ROOM NAME	FIRE RATING	DOOR			NOMINAL SIZE		# OF LEAFS	NOMINAL SIZE	FRAME			HARDWARE SET	COMMENTS
			TYPE	MATERIAL	FINISH	WIDTH	HEIGHT		THICKNESS	TYPE	MATERIAL	FINISH		
B50	WORKING AREA	1 HR	EXISTING	-	P-5	5' - 8"	7' - 0"	2	0' - 1 3/4"	EXISTING	-	P-2	SET 1	EXISTING DOOR
B50A	DRONE FLYING AREA	1 HR	EXISTING	-	P-2	7' - 8"	11' - 2"	2	0' - 1 3/4"	EXISTING	-	P-2	SET 2	EXISTING DOOR
B50B	DRONE FLYING AREA	1 HR	EXISTING	-	P-2	7' - 8"	11' - 2"	2	0' - 1 3/4"	EXISTING	-	P-2	SET 3	EXISTING DOOR
B50C	DRONE FLYING AREA	NONE	1	ALUMINUM	P-3	5' - 0"	9' - 11 3/4"	1	0' - 2"	-	ALUMINUM	P-3	SET 4	GATE ASSEMBLY WITH FULL HEIGHT PERSONNEL DOOR INTEGRATED AT ONE SIDE

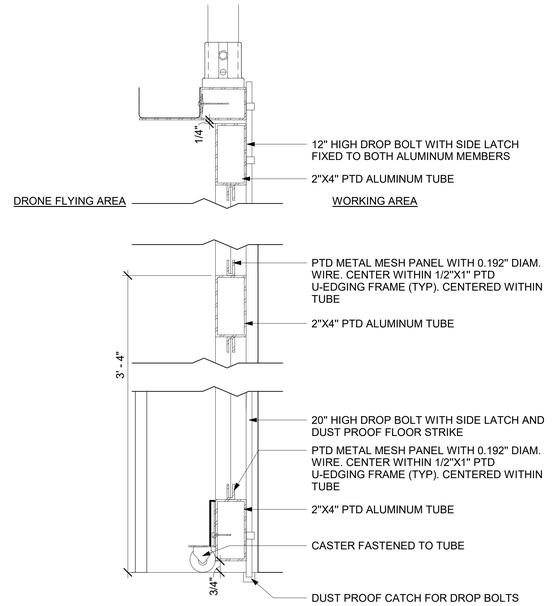


DOOR TYPE 1

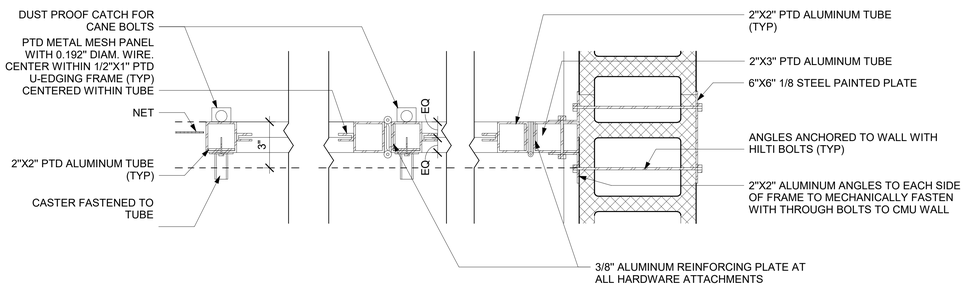
1 A-601 B50C DOOR ELEVATION
1/2" = 1'-0"



2 A-601 CROSS SECTION @ DOOR
3" = 1'-0"



4 A-601 CROSS SECTION @ SIDE LITE
3" = 1'-0"



3 A-601 CROSS SECTION @ JAMB THROUGHOUT
3" = 1'-0"

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CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

Seal:

A-601

FINISH AND DOOR SCHEDULE

Scale: As indicated
Issue Date 06-15-2026

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B50 Lab Renovation

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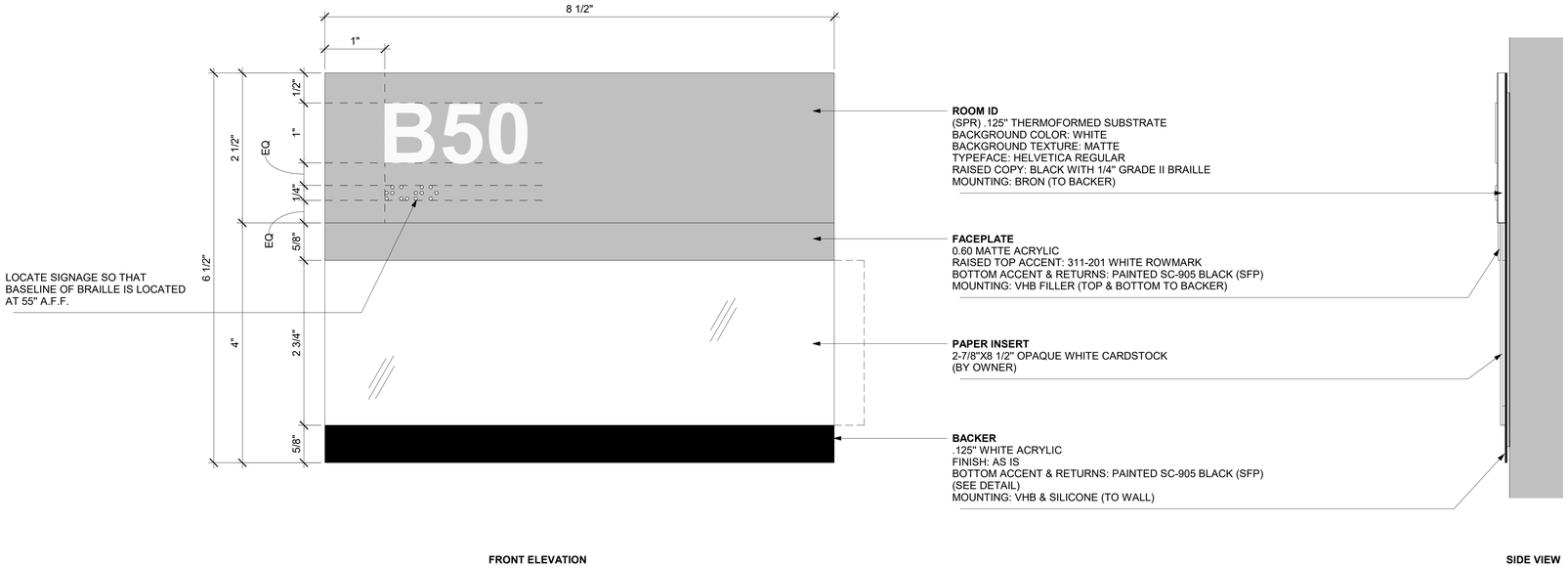
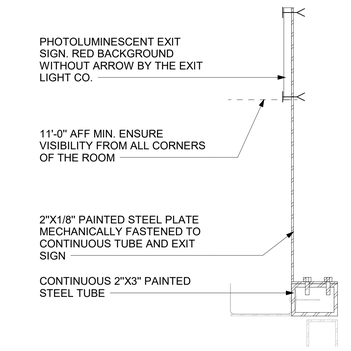


1 A-602 SIGNAGE DETAIL
12" = 1'-0"



2 A-602 EXIT SIGN MOUNTING DETAIL
3" = 1'-0"

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Revisions:

CONSTRUCTION DOCUMENTS	06-15-2026

Key Plan:

Seal:

REGISTERED ARCHITECT
RICHARD LIPPINCOTT MCELHINEY
018324
STATE OF NEW YORK

A-602

SIGNAGE

Scale: As indicated
Issue Date 06-15-2026

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HVAC SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— — —	EXISTING WORK TO BE REMOVED	A	COMPRESSED AIR
	POINT OF CONNECTION	V	VENT
		BBD	BOILER BLOW DOWN
	POINT OF DISCONNECTION	CS	CONDENSER WATER SUPPLY
		CR	CONDENSER WATER RETURN
X	DRAWING KEYNOTE	CWS	CHILLED WATER SUPPLY
		CWR	CHILLED WATER RETURN
X	DEMOLITION KEYNOTE	D	DRAIN
		FOF	FUEL OIL FILL
MBH	THOUSAND BTU/HOUR	FOG	FUEL OIL GAUGE
NTS	NOT TO SCALE	FOS	FUEL OIL SUPPLY
(E)	EXISTING	FOR	FUEL OIL RETURN
(L)	ACOUSTIC THERMAL LINING - 1-1/2" THICK	FOV	FUEL OIL TANK VENT
(2L)	ACOUSTIC THERMAL LINING - 2" THICK	G	GAS
(DBL)	DOUBLE WALL LINED DUCT	GS	GLYCOL SUPPLY
FPM	FEET PER MINUTE	GR	GLYCOL RETURN
CFM	CUBIC FEET PER MINUTE	HPWS	HEAT PUMP WATER SUPPLY
OBVD	OPPOSED BLADE VOLUME DAMPER	HPWR	HEAT PUMP WATER RETURN
AFF	ABOVE FINISHED FLOOR	HWS	HOT WATER SUPPLY
AD	ACCESS DOOR	HWR	HOT WATER RETURN
W/W	WALL TO WALL	LPS	LOW PRESSURE STEAM
G.C.	GENERAL CONTRACTOR	LPC	LOW PRESSURE CONDENSATE
M.C.	MECHANICAL CONTRACTOR	MPS	MEDIUM PRESSURE STEAM
P.C.	PLUMBING CONTRACTOR	MPC	MEDIUM PRESSURE CONDENSATE
E.C.	ELECTRICAL CONTRACTOR	HPS	HIGH PRESSURE STEAM
N.O.	NORMALLY OPEN	HPC	HIGH PRESSURE CONDENSATE
N.C.	NORMALLY CLOSED	PC	PUMPED CONDENSATE
	FLEXIBLE DUCTWORK	RD	REFRIGERANT DISCHARGE
AxB FO	DUCT SECTION - FLAT OVAL (FO)	RL	REFRIGERANT LIQUID
		RS	REFRIGERANT SUCTION
12"	ROUND DUCT - IN INCHES	HG	HOT GAS
		VAC	VACUUM
	DUCT SECTION - SUPPLY	CW	DOMESTIC COLD WATER
		TD	TRIPLE DUTY VALVE
	DUCT SECTION - RETURN		GLOBE VALVE
			BALL VALVE
A B	WIDTH A x DEPTH B		GATE VALVE
			CONTROL VALVE
	TRANSITION SQUARE TO ROUND		THREE WAY CONTROL VALVE
R	RISE IN DUCT - IN DIRECTION OF AIRFLOW		CHECK VALVE
			BALANCING VALVE
D	DROP IN DUCT - IN DIRECTION OF AIRFLOW		BUTTERFLY VALVE
			RELIEF VALVE
DN 24x12 UP	SUPPLY DUCT TURNING UP OR DOWN	PRV	PRESSURE REDUCING VALVE
			PRESSURE/TEMPERATURE TEST PLUG
DN 24x12 UP	RETURN DUCT TURNING UP OR DOWN		SINGLE LINE PIPE CONTINUED
24x12 6" BOOT TAP 14x8	SUPPLY/RETURN RECTANGULAR MAIN RECTANGULAR BRANCH		DOUBLE LINE PIPE OR ROUND DUCT CONTINUED
			DOUBLE LINE RECTANGULAR DUCT CONTINUED
24x12 6" BOOT TAP 14"	SUPPLY/RETURN RECTANGULAR MAIN ROUND BRANCH		AIR FLOW
			PIPE ANCHOR
			PIPE GUIDE
			EXPANSION COMPENSATOR WITH GUIDES
18" CONICAL TEE 14"	SUPPLY/RETURN ROUND MAIN ROUND BRANCH		PRE-FAB EXPANSION LOOP
			STRAINER
			PRESSURE GAUGE
18" LATERAL 14"	SUPPLY/RETURN ROUND MAIN ROUND BRANCH		THERMOMETER
			UNION
		V	AIR VENT
	MITERED ELBOW WITH TURNING VANES	TT	THERMOSTATIC TRAP
		FT	FLOAT & THERMOSTATIC TRAP
		TD	THERMODYNAMIC TRAP
		BT	BUCKET TRAP
	SUPPLY DIFFUSER, REGISTER OR GRILLE		DIRECTION OF FLOW
			REDUCER
			CAP OR PLUG
	RETURN REGISTER		ELBOW DOWN
			ELBOW UP
	EXHAUST GRILLE		BOTTOM TAP
	FIN TUBE RADIATION	AAD	AUTOMATIC AIR DAMPER
	VALANCE	FD	FIRE DAMPER
		SD	SMOKE DAMPER
		FSD	COMBINATION FIRE/SMOKE DAMPER
A B C	REGISTER, GRILLE OR DIFFUSER TAG A = TYPE B = NECK SIZE C = CFM	BDD	BACK DRAFT DAMPER
		FC	FLEX CONNECTOR - DUCTWORK
		MD	MOTORIZED DAMPER
A B C D	LINEAR DIFFUSER TAG A = TYPE B = NECK SIZE C = DIFFUSER LENGTH D = CFM	BG	BLAST GATE
			VOLUME DAMPER
		SD	SUCTION DIFFUSER
			FLEXIBLE CONNECTOR - PIPING
FT-A B C D	FIN TUBE RADIATION TAG FT-A = TYPE B = FIN TUBE LENGTH C = ENCLOSURE LENGTH D = GPM		DRAIN VALVE WITH HOSE CONNECTION, CAP AND CHAIN
		FS	WATER FLOW SENSOR
		TS	WATER TEMPERATURE SENSOR
A B C	RADIANT CEILING PANEL TAG A = TYPE B = LENGTH C = GPM	SPS	STATIC PRESSURE SENSOR
		H	HUMIDISTAT
		T	TEMPERATURE SENSOR
A B C D	VALANCE TAG A = TYPE B = COIL SIZE C = COOLING GPM D = HEATING GPM	C	CARBON DIOXIDE SENSOR
		CO	CARBON MONOXIDE SENSOR
		N	NITROGEN DIOXIDE SENSOR
		G	GAS SENSOR
	AIR TERMINAL UNIT AND TAG (OPTION 1)	T E	PNEUMATIC/ELECTRIC THERMOSTAT
		T G S G	THERMOSTAT/SENSOR WITH GUARD
A B C	AIR TERMINAL UNIT TAG (OPTION 2) A = UNIT NO. B = MAXIMUM CFM C = MINIMUM CFM	DSD	DUCT SMOKE DETECTOR

GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL DEBRIS AND MATERIALS OFF SITE IN A PROPER LEGAL MANNER.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL SHUTDOWNS OF AIR HANDLING, CHILLED WATER, HOT WATER, STEAM, ETC. SYSTEMS WITH CORNELL UNIVERSITY FACILITY PERSONNEL FOR TIE-IN CONNECTIONS. THE CONTRACTOR SHALL ASSIST THE UNIVERSITY PERSONNEL IN SHUTTING DOWN, DRAINING, VENTING, ETC. OF SYSTEM TO FACILITATE THE INTENDED WORK.

C. DAMAGE TO EXISTING SYSTEMS (EQUIPMENT, PIPING, DUCTWORK, CONTROLS AND ACCESSORIES) SHOWN TO REMAIN AS A RESULT OF THE CONTRACTORS WORK IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE WITH SIMILAR OR LIKE MATERIALS AT NO ADDITIONAL COST TO THE OWNER.

D. THE DEMOLITION DRAWINGS SHOWN IN GENERAL MAJOR EQUIPMENT, PIPING AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, TUBING AND ACCESSORIES TO BE DISCONNECTED AND REMOVED BUT IS THE REQUIREMENTS UNDER CONTRACT. NO EQUIPMENT, PIPING OR DUCTWORK SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

E. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTORS FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.

F. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

G. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND ALL DIMENSIONS BEFORE FABRICATION.

H. ALL MATERIAL AND EQUIPMENT SHALL BE NEW.

I. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTION AND LOCAL, STATE, AND NATIONAL CODES.

J. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS OR DRAINS FOR THE INSTALLATION OF THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR PREVENTING PROPER OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEMS TO FACILITATE DRAINING OF THE SYSTEM COMPLETELY.

K. THE DUCTWORK SIZES AND TYPES (ROUND, FLAT OVAL AND RECTANGULAR) WERE SELECTED FOR WITHIN THE BUILDING. IN ADDITION, THE DUCTWORK SIZES AND TYPES WERE CHOSEN TO ALLOW SPACE ABOVE THE CEILINGS FOR FUTURE DUCTWORK, PIPING AND/OR CONDUIT. IT IS NOT ACCEPTABLE FOR THE CONTRACTOR TO CHANGE THE SIZE OR TYPE OF DUCTWORK FOR BIDDING OR INSTALLATION UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

L. ALL MATERIALS AND PRODUCTS USED IN MECHANICAL SYSTEM CONSTRUCTION SHALL BE IN ORDER OF PREFERENCE, NONCOMBUSTIBLE, FM APPROVED OR CLASS 1. FM APPROVED PRODUCTS ARE ALL MARKED WITH FM APPROVAL MARK. REFERENCE THE FM APPROVAL GUIDE FOR APPROVED PRODUCTS.

M. COORDINATE OVERHEAD INSTALLATION WITH THE FIRE PROTECTION SYSTEM. DO NOT INSTALL EQUIPMENT, SUPPORTS, DUCTWORK, PIPING OR ACCESSORIES THAT OBSTRUCT SPRINKLER DISCHARGE PATTERNS OR REDUCE SPRINKLER EFFECTIVENESS. MAINTAIN SPRINKLER CLEARANCES ACCORDING WITH FM PROPERTY LOSS PREVENTION DATA SHEET 2-0.

N. HOT WORK ASSOCIATED WITH MECHANICAL CONSTRUCTION SHALL COMPLY WITH FM PROPERTY LOSS PREVENTION DATA SHEET 10-3. HOT WORK SHALL BE AVOIDED WHERE PRACTICAL. WHERE HOT WORK IS REQUIRED, CONTRACTOR SHALL IMPLEMENT FM HOT WORK PERMIT PROCEDURES, MAINTAIN REQUIRED FIRE WATCHES, AND PROTECT SURROUNDING COMBUSTIBLE MATERIALS.

O. WORK AFFECTING FIRE PROTECTION SYSTEMS SHALL COMPLY WITH FM PROPERTY LOSS PREVENTION DATA SHEET 10-7. CONTRACTORS SHALL NOT IMPAIR SPRINKLER SYSTEMS, FIRE PUMPS, FIRE ALARM SYSTEMS OR FIRE PROTECTION WATER SUPPLIES WITHOUT OWNER AUTHORIZATION. FIRE PROTECTION IMPAIRMENTS SHALL BE MANAGED USING THE FM RED TAG PERMIT SYSTEM OR APPROVED EQUIVALENT PROCEDURES.

P. PROVIDE FM APPROVED FIRESTOP SYSTEMS OR SYSTEMS LISTED BY AN APPROVED INDEPENDENT TESTING LABORATORY FOR PENETRATION FIRE STOPS SYSTEMS. THE SYSTEM SHALL MEET ASTM E814 REQUIREMENTS AND MAINTAIN THE RATING OF THE PENETRATED ASSEMBLY.

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Revisions:

CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

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M-000

GENERAL NOTES AND SYMBOLS LIST - HVAC

Scale: 1/8" = 1'-0"
06/15/2026

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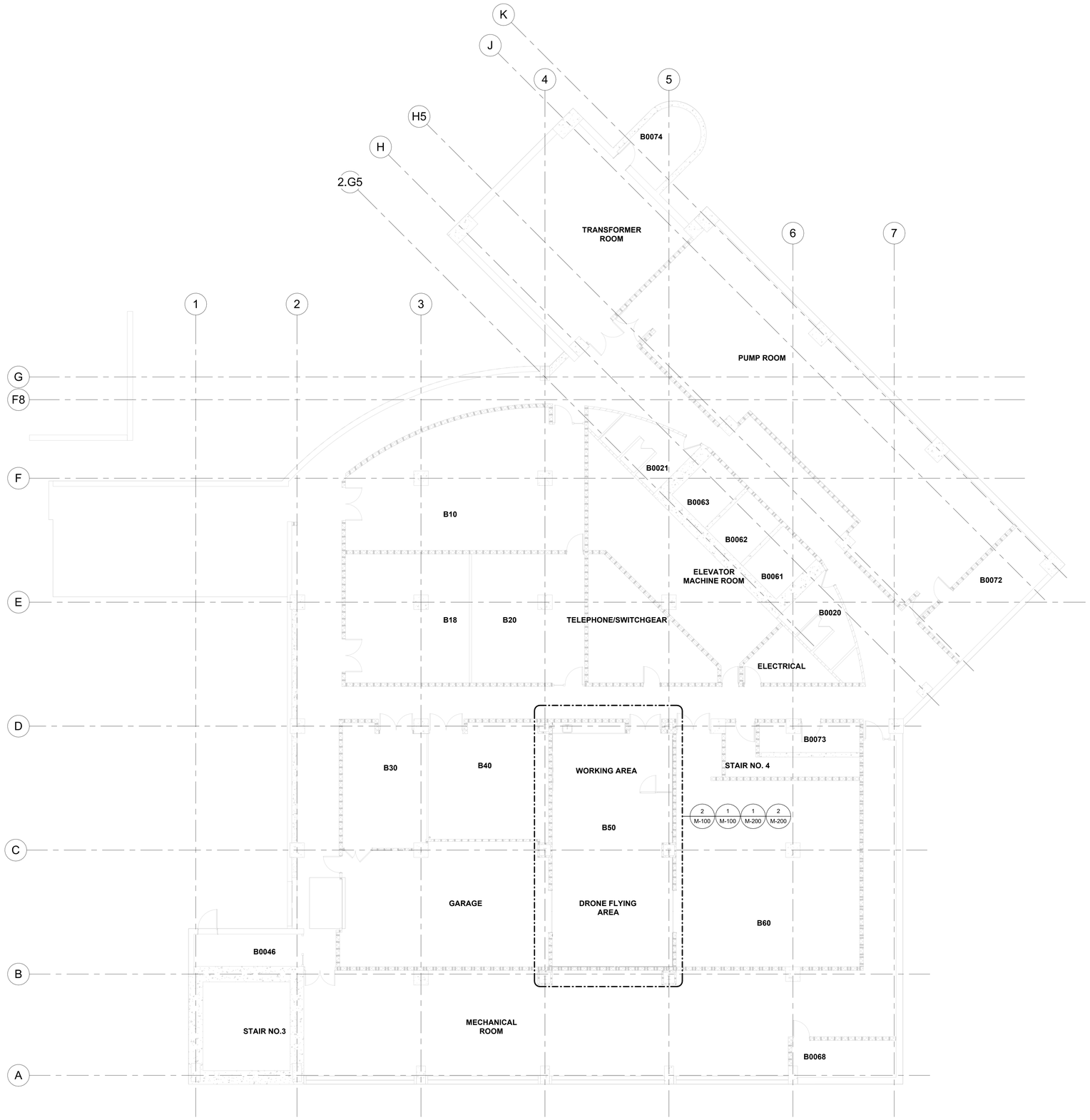

1 OVERALL BASEMENT FLOOR PLAN - HVAC
1/8" = 1'-0"

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OVERALL BASEMENT FLOOR PLAN - HVAC

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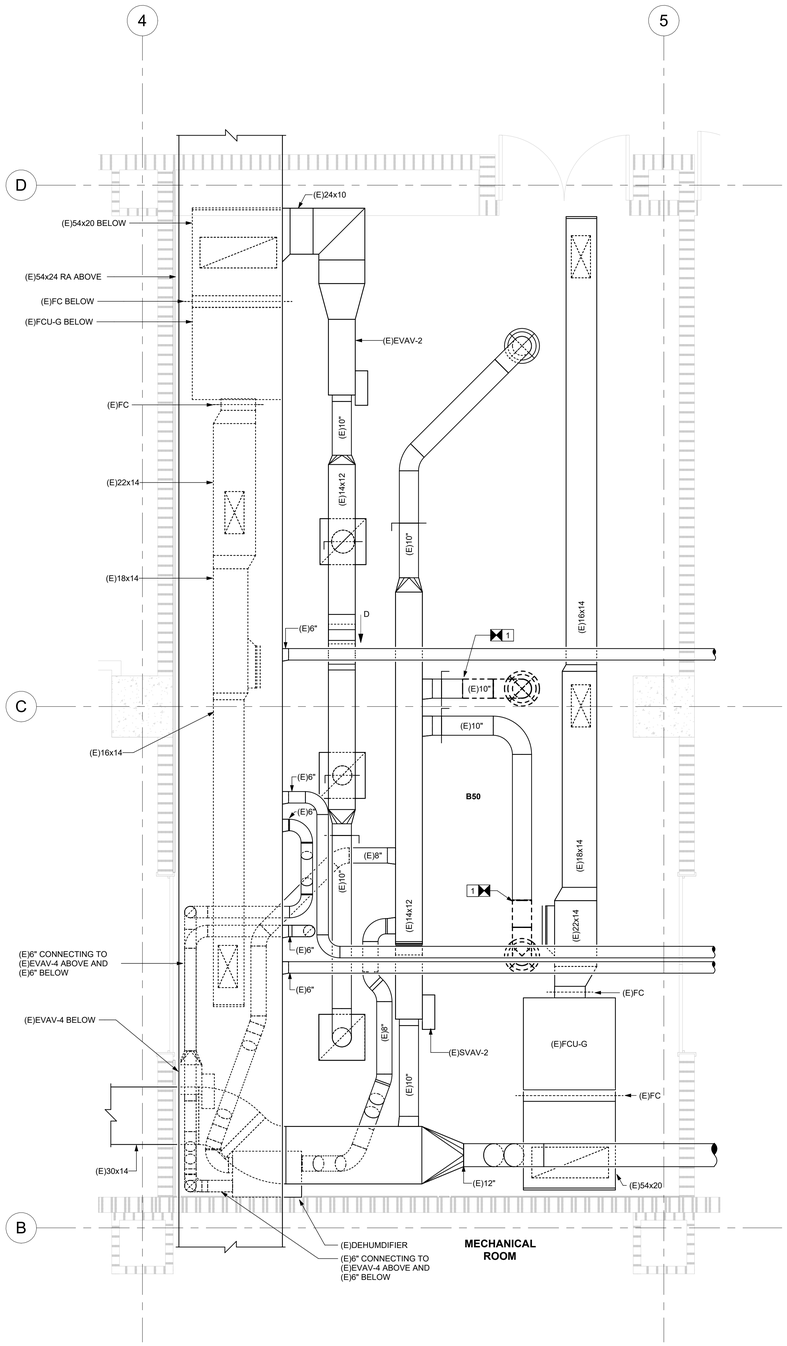
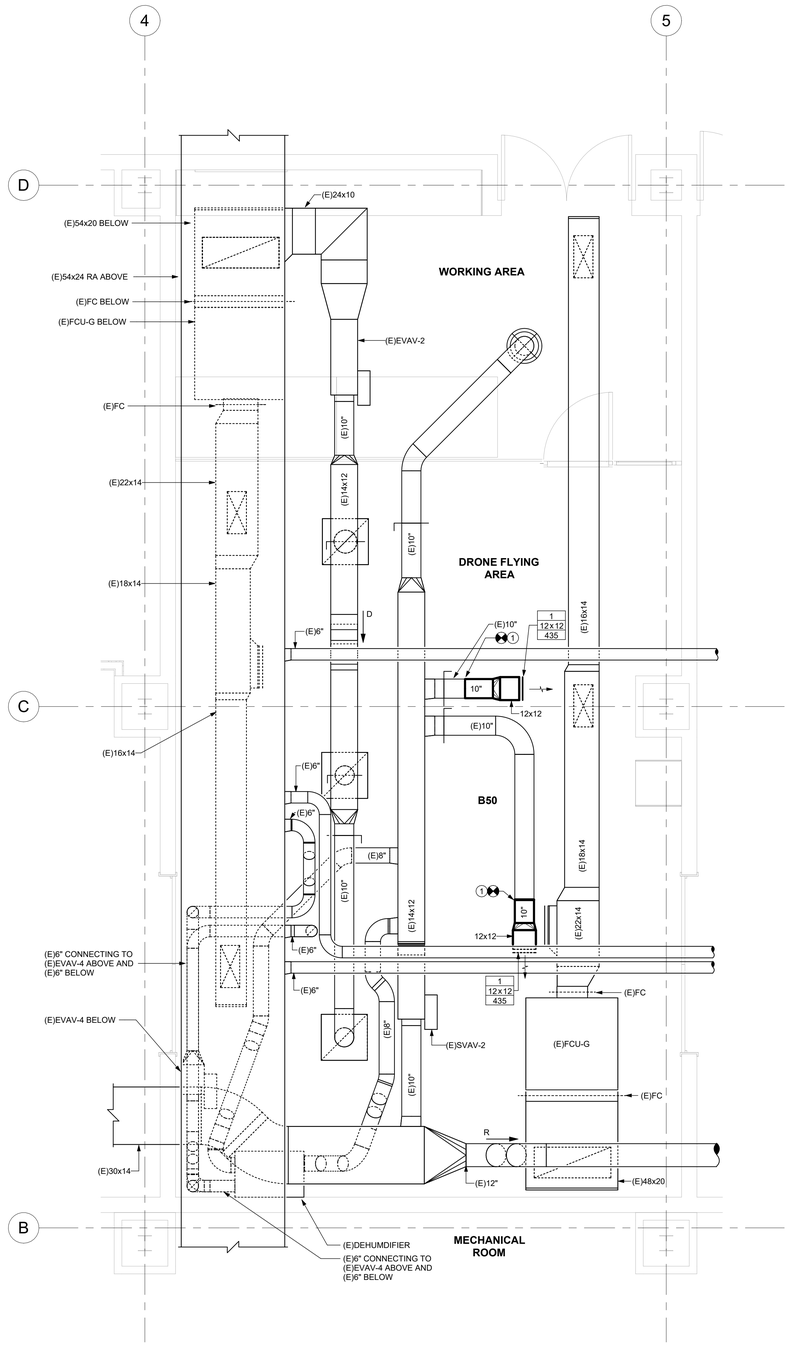


1 PARTIAL BASEMENT DEMOLITION PLAN - DUCTWORK

3/8" = 1'-0"



2 PARTIAL BASEMENT FLOOR PLAN - DUCTWORK

3/8" = 1'-0"

X DEMOLITION NOTES:

1 DISCONNECT AND REMOVE EXISTING DUCTWORK AND ACCESSORIES BACK TO INDICATED POINT. PREP FOR NEW CONNECTION.

X DRAWING NOTES:

1 TIE DUCTWORK INTO EXISTING. PROVIDE ALL DUCTWORK MODIFICATIONS AS REQUIRED TO MAKE THE CONNECTION.

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PARTIAL BASEMENT PLANS - DUCTWORK

Scale: 3/8" = 1'-0"
06/15/2026

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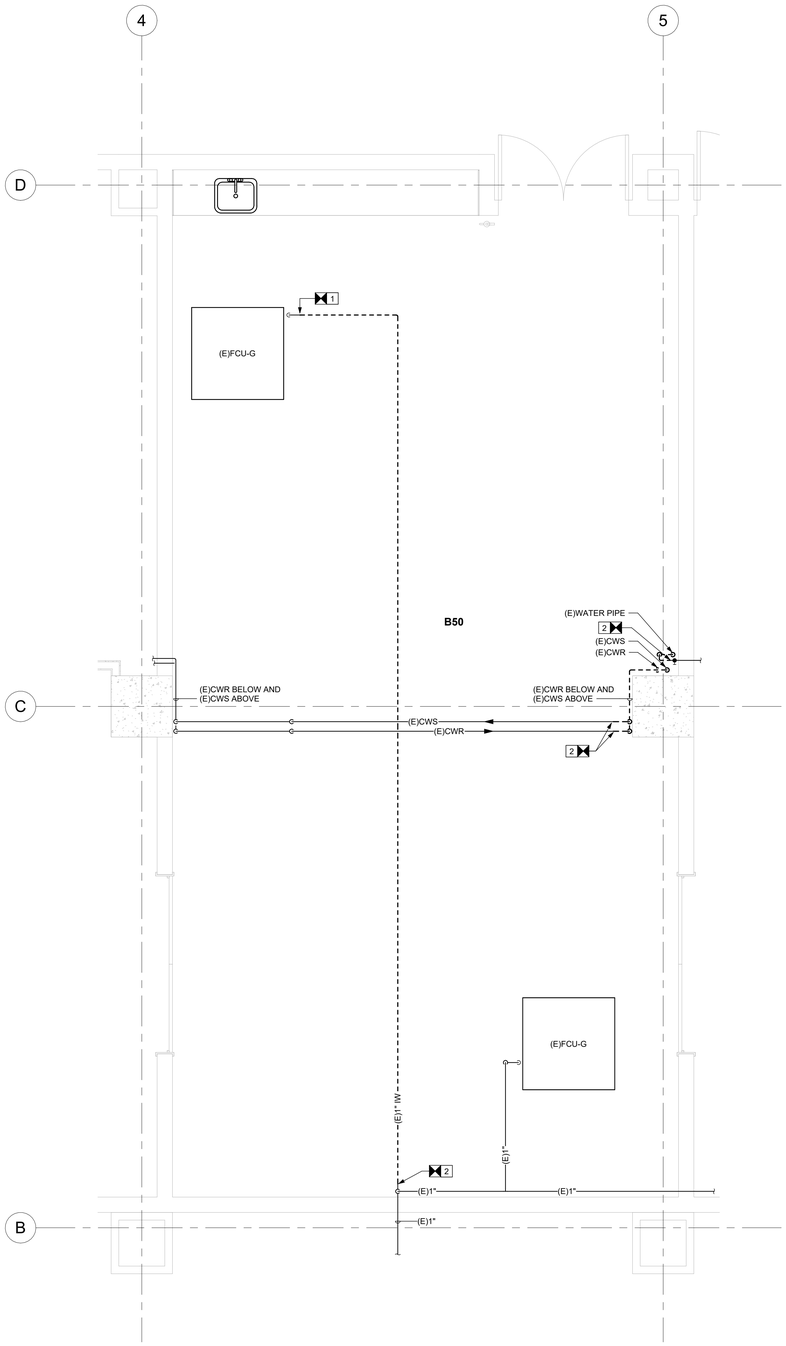
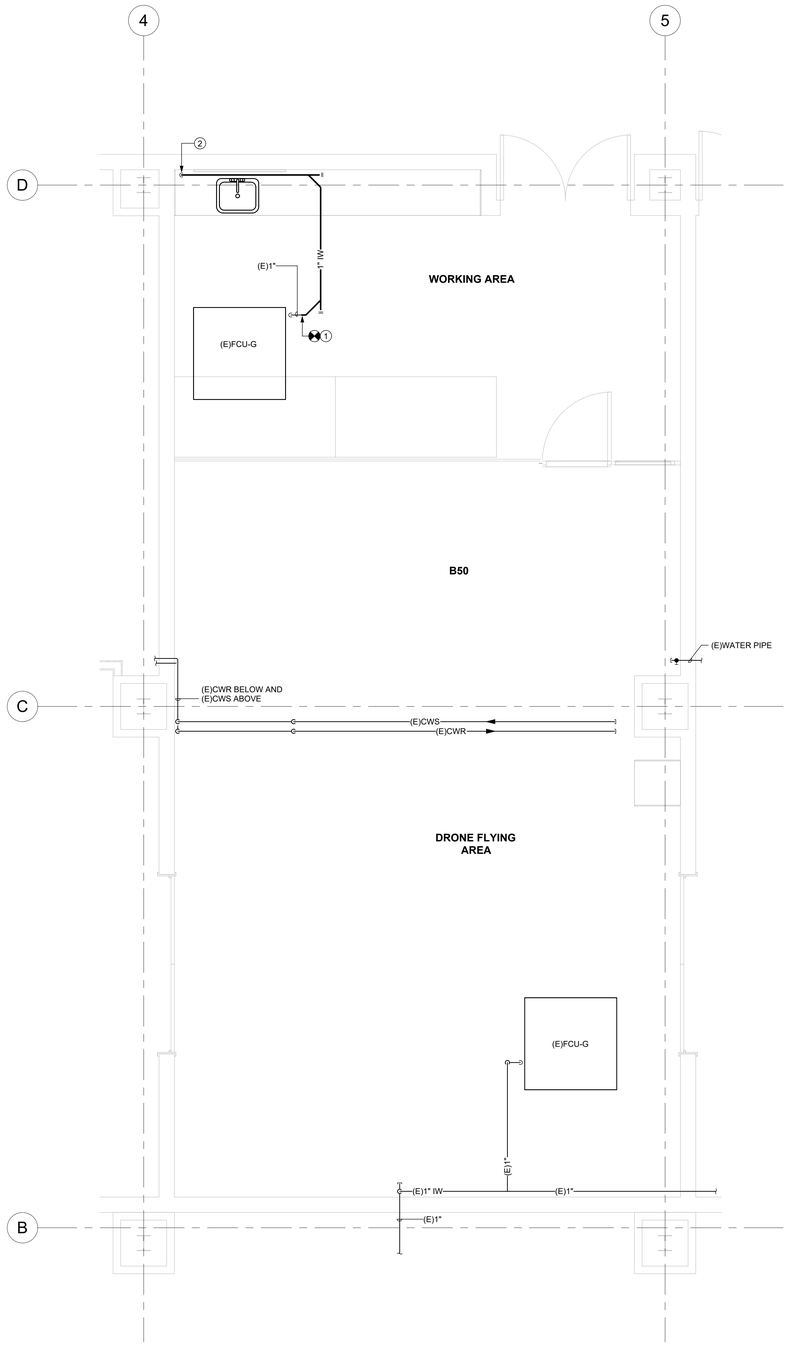


1 PARTIAL BASEMENT DEMOLITION PLAN - PIPING

3/8" = 1'-0"



2 PARTIAL BASEMENT PLAN - PIPING

3/8" = 1'-0"

DEMOLITION NOTES:

1 DISCONNECT AND REMOVE EXISTING PIPING AND ACCESSORIES BACK TO INDICATED POINT. PREP FOR NEW CONNECTION.
2 DISCONNECT AND REMOVE EXISTING PIPING AND ACCESSORIES BACK TO INDICATED POINT. CAP PIPING.

DRAWING NOTES:

1 TIE PIPING INTO EXISTING. PROVIDE ALL PIPING MODIFICATIONS AS REQUIRED TO MAKE THE CONNECTION.
2 INSTALL PIPING WITHIN CUTOUT IN EXISTING COUNTERTOP. SEE DETAIL 2 ON DRAWING M-300 FOR EXISTING SINK DRAIN MODIFICATIONS.

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PARTIAL BASEMENT PLANS - PIPING

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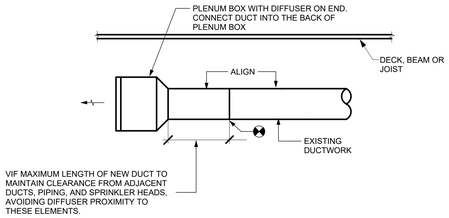


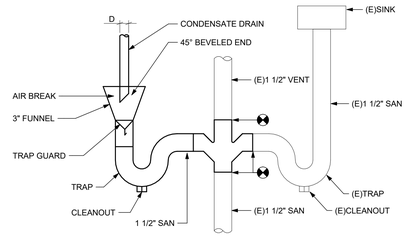
SUPPLY AIR DIFFUSER DETAIL - RADIUS FLEXIBLE DUCT - STRAP

DETAIL NOTES:

A. DUCT AND DIFFUSER SIZE AND TYPE AS SHOWN ON DRAWINGS.

1 SUPPLY AIR DIFFUSER DETAIL

NOT TO SCALE



2 INDIRECT WASTE DRAIN DETAIL

NOT TO SCALE

REGISTER GRILLE AND DIFFUSER SCHEDULE

TYPE	APPLICATION	MATERIAL	FINISH	MANUFACTURER & MODEL NO.	REMARKS
1	SUPPLY	STEEL	WHITE	TITUS 272RL	-

Cornell University

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Blasdell, NY 14219
718-823-0006 T

Delta
800 Hooper Road
Endwell, NY 13760
607-231-6600 T
607-231-6650 F

Revisions:

CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

Seal:

STATE OF NEW YORK · GREGORY DANIEL ZINNER · 094525 · LICENSED PROFESSIONAL ENGINEER

Reg. Exp: 04/30/2029
Cert. of Auth: 0018443

M-300

DETAILS AND SCHEDULES - HVAC

Scale: NOT TO SCALE
06/15/2026

Rhodes Hall
B50 Lab Renovation

Cornell University
Ithaca, NY 14850

ABBREVIATIONS

ABBREV.	DESCRIPTION
A	AMPERE
AAD	AUTOMATIC AIR DAMPER
AIC	AMPERE INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTING
AII	AIRBORNE INFECTION ISOLATION
AL	ALUMINUM
ARS	ARC ENERGY REDUCTION SWITCH
ASD	ADJUSTABLE SPEED DRIVE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED-CIRCUIT TELEVISION
CLG	CEILING
CM	CONSTRUCTION MANAGER
CONT	CONTACTOR
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CT	CABLE TRAY
CU	COPPER
DN	DOWN
DP	DISTRIBUTION PANEL
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATP	FIRE ALARM TRANSPONDER PANEL
FBO	FURNISHED BY OTHERS
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MULTI-FUNCTION RELAY
MH	MAN HOLE
MI	MINERAL INSULATED CABLE
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC SHEATHED CABLE
NMT	NON-METALLIC TUBING
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	MOUNTED OVER COUNTER
OH	OVERHEAD
P	POLE
PB	PULL BOX
PC	PLUMBING CONTRACTOR OR PHOTOCELL
PH	PHASE
PG	POLYCARBONATE GUARD
PNL	PANEL
PT	POTENTIAL TRANFORMER
PTZ	PAN TILT ZOOM
PV	PHOTOVOLTAIC
REFR	REFRIGERATOR
RMC	RIGID METAL CONDUIT
SP	SPACE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
THD	TOTAL HARMONIC DISTORTION
TV	TELEVISION
TYP	TYPICAL
UC	MOUNTED UNDER COUNTER HEIGHT OR UNDERGROUND COMMUNICATION
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
W	WIRE OR WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XP	EXPLOSION PROOF
VP	VANDAL-PROOF POLYCARBONATE GUARD

BASIC MATERIALS AND METHODS

SYMBOL	DESCRIPTION
LP-404	HOME RUN TO PANELBOARD. LETTERS/ NUMBERS INDICATE PANEL. NUMBERS INDICATE CIRCUITS. NUMBER OF ARROWS EQUALS NUMBER OF CIRCUITS. CIRCUIT SHALL BE 20 AMP, 120 VOLT, 2-#12, 1-#12 EG., IN 1" C. UNLESS NOTED OTHERWISE. BRANCH CIRCUIT WIRING SIZE AND NUMBER TO MATCH HOMERUN. REFER TO SPECS FOR RACEWAY TYPE.
	SOLID HALF-ARROW(S) INDICATE(S) 120V CIRCUIT TO SINGLE-POLE CIRCUIT BREAKER(S), UNLESS OTHERWISE NOTED.
	SOLID FULL-ARROW INDICATES 208V CIRCUIT TO MULTI-POLE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED.
	OPEN HALF-ARROW(S) INDICATE(S) 277V CIRCUIT TO SINGLE-POLE CIRCUIT BREAKER(S), UNLESS OTHERWISE NOTED.
	OPEN FULL-ARROW INDICATES 480V CIRCUIT TO MULTI-POLE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED.
(E)	EXISTING TO REMAIN - INDICATES EXISTING ITEM SHALL REMAIN. MAINTAIN EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.
(ER)	EXISTING TO BE RELOCATED - INDICATES EXISTING ITEM SHALL BE RELOCATED. DISCONNECT AND REMOVE, REINSTALL AT NEW LOCATION AND RECONNECT ITEM AS REQUIRED.
(R)	EXISTING TO BE REPLACED - INDICATES EXISTING ITEM SHALL BE REPLACED. RECONNECT TO EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.
N	EXISTING ELECTRICAL WIRING OR EQUIPMENT OR DEVICE DASHED LIGHT IS EXISTING TO BE REMOVED OR RELOCATED.
	EXISTING ELECTRICAL WIRING OR EQUIPMENT OR DEVICE SOLID LIGHT IS EXISTING TO REMAIN OR EXISTING RELOCATED.
	HEAVY SOLID IS NEW
#	REFERENCE TO DRAWING NOTE
#	REFERENCE TO DEMOLITION NOTE
A	FEEDER DESIGNATION - REFER TO FEEDER SCHEDULE.
J	JUNCTION BOX; SUBSCRIPT OR DRAWING NOTE INDICATES TYPE. C - MOUNTED IN ACCESSIBLE AREA ABOVE CEILING.
	SPECIAL PURPOSE RECEPTACLE. PROVIDE PROPER VOLTAGE, CLASS, CURRENT RATING AND NEMA CONFIGURATION AS REQUIRED BY BRANCH CIRCUIT AND/OR MATCH CAP ON EQUIPMENT BEING FURNISHED BY OTHERS. PROVIDE CORD AND CAP.
	DUPLEX RECEPTACLE 20 AMP, 125 VOLT SUBSCRIPTS INDICATE TYPE: AV - AV RECEPTACLE, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL AND AV DRAWINGS. C - CONTROLLED RECEPTACLE EM - CONNECTED TO AN EMERGENCY CIRCUIT GFI - GROUND FAULT INTERRUPTOR OC - OVER-COUNTER TR - TAMPER-RESISTANT TV - TV RECEPTACLE, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL AND AV DRAWINGS. UC - UNDER THE COUNTER USB - COMBINATION RECEPTACLE/USB CHARGING WP - WEATHERPROOF
	GFCI DUPLEX RECEPTACLE, 20 AMP, 125 VOLT. REFER TO DUPLEX RECEPTACLE FOR SUBSCRIPT DEFINITIONS.
	DUPLEX RECEPTACLE, 20 AMP, 125 VOLT. CONNECT TO AN EMERGENCY CIRCUIT. REFER TO DUPLEX RECEPTACLE FOR SUBSCRIPT DEFINITIONS.

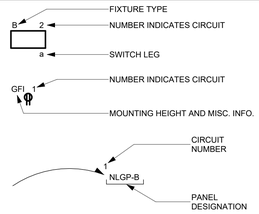
POWER DISTRIBUTION AND CONTROL

SYMBOL	DESCRIPTION
XTX-XX-XX	TRANSFORMER, REFER TO ONE LINE DIAGRAM AND TRANSFORMER SCHEDULE FOR SIZE AND TYPE
XX-XX	208/120 VOLT PANELBOARD
XX-XX	480/277 VOLT PANELBOARD
	DISCONNECT SWITCH AMP RATING AS INDICATED ON ELECTRICAL EQUIPMENT AND CONTROL SCHEDULE
M	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
	ENCLOSED CIRCUIT BREAKER

FIRE ALARM

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
S	SMOKE DETECTOR
H	COMBINATION SET TEMPERATURE AND RATE OF RISE HEAT DETECTOR
F C	NOTIFICATION APPLIANCE, AUDIBLE AND VISUAL C - INDICATES CEILING WP - INDICATES WEATHERPROOF
F C	NOTIFICATION APPLIANCE, VISUAL C - INDICATES CEILING WP - INDICATES WEATHERPROOF

BRANCH CIRCUITING IDENTIFICATION



NOTE:
TYPICAL FOR ALL DEVICES AND HOMERUNS.

BRANCH CIRCUIT WIRE SIZES

SYMBOL	SIZE
30A, 1P	2-#10 & 1-#10EG IN 3/4" C.
50A, 1P	2-#6 & 1-#10EG IN 1" C.
60A, 1P	2-#6 & 1-#10EG IN 1" C.
20A, 2P	3-#12 & 1-#12EG IN 3/4" C.
30A, 2P	3-#12 & 1-#12EG IN 3/4" C.
40A, 2P	3-#8 & 1-#10EG IN 3/4" C.
20A, 3P	3-#12 & 1-#12EG IN 3/4" C.
30A, 3P	3-#10 & 1-#10EG IN 3/4" C.
PROVIDE NEMA RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT.	

GENERAL NOTES: (APPLY TO ALL DRAWINGS):

A. SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE FIRESTOPPING FOR ALL FIRE-RATED PENETRATIONS. UTILIZE REMOVABLE FIRESTOPPING MATERIAL AT CABLE TRAY PENETRATIONS. PROVIDE ACOUSTICAL SEALANT FOR ALL NON RATED PENETRATIONS. ALL FIRE RATINGS SHALL BE MAINTAINED.

B. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT.

C. COORDINATE EXACT LOCATION OF ALL CONDUIT ROUTES, EQUIPMENT AND DEVICES WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

D. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR POWER CIRCUITS UOI.

E. PROVIDE NYLON PULLSTRING IN ALL EMPTY CONDUITS.

F. FIRE ALARM SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR.

G. CIRCUITING TO DEVICES/EQUIPMENT SHALL BE 2-#12AWG & 1-#12EG (MULTIPLE HOME RUNS IN SAME CONDUIT MAY SHARE SAME EQUIPMENT GROUND) FOR EACH 20 AMPERE CIRCUIT UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS (CIRCUITS SHALL NOT SHARE NEUTRALS).

H. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED EQUIPMENT CONNECTIONS TO ALL DEVICES/EQUIPMENT. CONNECT TO CIRCUIT(S) AS INDICATED.

I. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REFERENCE STANDARD EDITION OF NFPA CODES, AS CITED BY THE FIRE CODE OF NEW YORK STATE, BUILDING CODE OF NEW YORK STATE AND CORNELL UNIVERSITY DESIGN STANDARDS.

J. ALL CONDUITS AND SUPPORTS SHALL BE AS TIGHT TO DECK AS POSSIBLE.

K. PROVIDE PULLBOX FOR EVERY 180 DEGREE OF BENDS FOR TEL/DATA AND 360 DEGREES OF BENDS FOR POWER CONDUITS.

L. ALL ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, FIRE ALARM, ETC.) SHALL BE ALIGNED HORIZONTALLY AND VERTICALLY. CONTRACTOR TO SCHEDULE AND COORDINATE PROJECT WALKTHROUGH WITH ARCHITECT AND ENGINEER PRIOR TO COMMENCEMENT OF ANY DEVICE ROUGH-IN FOR FINALIZATION OF ALIGNMENTS.

M. ALL EXISTING DEVICES CIRCUITED TO PANELS BEING RENAMED SHALL BE PROVIDED WITH UPDATED LABELS.

N. PROVIDE ALL PATHWAYS AND BACK BOXES AS CALLED FOR ON AV DRAWINGS PROVIDED BY ANOTHER CONSULTANT.

O. COORDINATE IT SERVICE CHANGES OR DISRUPTIONS IN SERVICE WITH CIT OPERATIONS AT (607)255-5500.

P. ALL OUTLETS WITHIN 6' OF SINK EDGE SHALL BE GFCI RATED.

Q. CABLE TRAY INSTALLATION SHALL COMPLY WITH FM PROPERTY LOSS PREVENTION DATA SHEET 5-31. CABLE TRAYS SHALL BE INSTALLED SO AS NOT TO OBSTRUCT SPRINKLER DISCHARGE PATTERNS AND SHALL BE COORDINATED WITH FIRE PROTECTION SYSTEMS AND OTHER OVERHEAD SYSTEMS IN ACCORDANCE WITH FM PROPERTY LOSS PREVENTION DATA SHEET 2-0. POWER, CONTROL, AND COMMUNICATIONS CABLING SHALL BE ARRANGED TO MINIMIZE COMMON EXPOSURE HAZARDS. CABLE TRAYS, SUPPORTS, AND ASSOCIATED ACCESSORIES SHALL BE NONCOMBUSTIBLE, FM APPROVED, OR FM CLASS 1 WHERE SUCH PRODUCTS ARE AVAILABLE AND APPLICABLE

GENERAL DEMOLITION NOTES: (APPLY TO ALL DRAWINGS):

A. WHEN EXISTING CONSTRUCTION, WHICH IS TO REMAIN, IS DAMAGED DURING THE COURSE OF DEMOLITION AS A RESULT OF THE CONTRACTOR'S WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS, AS MUCH AS POSSIBLE, SUBJECT TO THE OWNERS APPROVAL.

B. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF EXISTING CONSTRUCTION IN THE WAY OF NEW WORK. PROTECT BUILDING AND FURNISHINGS FROM DAMAGE.

C. COORDINATE PHASING OF WORK WITH OWNER'S REPRESENTATIVE.

D. COORDINATE ALL SHUTDOWNS WITH UNIVERSITY PRIOR TO DEMOLITION. ALL FIRE ALARM SHUTDOWNS SHALL BE SCHEDULED THROUGH CUSTOMER SERVICE WITH AT LEAST 24 HOURS NOTICE BEFORE WORK IS TO BE STARTED.

E. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE DEMOLITION WORK. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS. THIS CONTRACTOR SHALL PARTICIPATE IN SURVEY OF THE EXISTING ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL DISCONNECT AND CAP ALL SERVICE LINES TO BE DISCONNECTED FOR THOSE SERVICES WHICH NORMALLY ARE INCLUDED IN HIS FIELD OF WORK. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARD OR CAUSING DISRUPTION IN ADJOINING AREAS. NOT ALL DEVICES TERMINATIONS, JUNCTION BOXES AND WIRING HAVE BEEN SHOWN.

F. REFER TO PLUMBING CONTRACT DRAWINGS AND SPECIFICATIONS FOR EXACT QUANTITIES AND LOCATIONS OF ALL PLUMBING EQUIPMENT BEING ABANDONED OR REMOVED, WHICH WILL REQUIRE DE-ENERGIZATION, REMOVAL AND BLANK-OFF BY THE CONTRACTOR.

G. EXISTING FIRE ALARM SYSTEM SHALL BE KEPT OPERATIONAL DURING THE CONSTRUCTION PERIOD THE BUILDING UNDER RENOVATION MAY BE DISCONNECTED FROM SERVICE DURING THE HOURS THE CONTRACTOR IS WORKING, AT THE DISCRETION OF THE FIRE DEPARTMENT AND THE OWNER'S REPRESENTATIVE, BUT MUST BE PLACED BACK ON LINE DURING OTHER PERIODS. APPROVAL TO BE IN WRITING.

H. THE EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITHIN DEMOLITION AREA SHALL BE DEMOLISHED ALONG WITH ALL FEEDERS AND CONDUITS BACK TO POINT OF SOURCE UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN ON THE DEMOLITION DRAWINGS SHALL BE DISCONNECTED AND REMOVED UNLESS NOTED OTHERWISE. WALLBOXES, BACKBOXES AND CONDUIT SHALL BE REUSED AS DETERMINED BY CONTRACTOR. ALL UNUSED CONDUITS SHALL BE REMOVED. DISCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.

I. MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).

J. ALL EXISTING CONDUITS STUBBED THROUGH FLOOR SERVING ITEMS TO BE REMOVED AND NOT SHOWN OR REQUIRED TO BE REUSED, SHALL BE CUT OFF FLUSH WITH SLAB LEVEL WITH CONCRETE.

K. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THIS CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.

L. DISCONNECT, MAKE SAFE AND REMOVE ALL TEMPORARY AND ABANDONED WIRE WITHIN THE SPACE.

M. BRANCH CIRCUIT WIRING TO DEVICES IN AREAS OF DEMOLITION SHALL BE DISCONNECTED, MADE SAFE AND REMOVED COMPLETELY BACK TO THE PANELBOARD. THE CONTRATOR SHALL NOT ABANDON BRANCH CIRCUIT WIRING TO ANY AREAS WICH ARE TO REMAIN BUT ARE AFFECTED BY THE DEMOLITION OR NEW CONSTRUCTION.

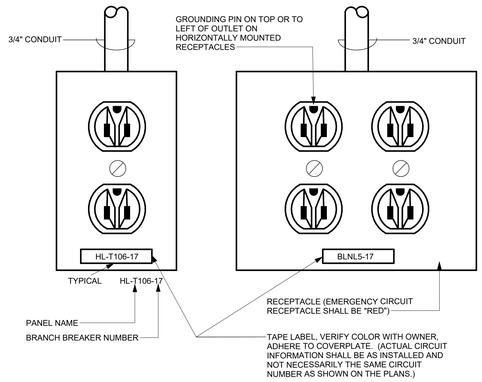
N. DISCONNECT AND REMOVE PANEL, FEEDERS AND BRANCH CIRCUITS BACK TO POINT OF SOURCE PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MAINTAIN THOSE CIRCUITS THAT EXTEND OUTSIDE OF THE SCOPE OF WORK.

O. AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL INSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY.

P. PROVIDE TEMPORARY HEAT DETECTORS IN AREAS WHERE SPRINKLERS ARE REMOVED FROM SERVICE DURING CONSTRUCTION. COORDINATE WITH FIRE PROTECTION CONTRACTOR. TEMPORARY HEAT NEED TO BE TESTED WITH EHS BEFORE REMOVAL OF SPRINKLER SYSTEM.

Q. REFER TO HVAC CONTRACT DRAWINGS AND SPECIFICATIONS FOR EXACT QUANTITIES AND LOCATIONS OF ALL HVAC EQUIPMENT BEING ABANDONED OR REMOVED, WHICH WILL REQUIRE DE-ENERGIZATION, REMOVAL AND BLANK-OFF BY THE CONTRACTOR.

R. DISCONNECT, SALVAGE AND TURN OVER ALL REMOVED ELECTRICAL PANELS TO CORNELL FACILITIES.



GENERAL DETAIL NOTES:

A. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL.

B. DO NOT INSTALL RECEPTACLES, COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

2 E-000 TYPICAL RECEPTACLE IDENTIFICATION REQUIREMENTS
NTS

EQUIPMENT: "INSERT DESIGNATION"

POWER SOURCE: "INSERT SOURCE"

TYPE SUPPLY: INSERT-NORMAL, OR CRITICAL OPERATION POWER, OR OPTIONAL STANDBY, OR LEGALLY REQUIRED, OR LIFE SAFETY EMERGENCY AS APPLICABLE"

VOLTAGE: "INSERT APPLICABLE VOLTAGE-208/120V OR 480/277V, ETC."

CONDUCTOR COLOR CODING:
PHASE A - "BLACK OR BROWN"
PHASE B - "RED OR ORANGE"
PHASE C - "BLUE OR YELLOW"
NEUTRAL - "WHITE OR GRAY"
GROUND - GREEN

AVAILABLE SHORT CIRCUIT CURRENT: "INSERT AMPS RMS"

SERVICE OCPD CLEARING TIME: XX SECONDS

"INFORMATION DATE: XX"

DETAIL NOTES:

1. PROVIDE CUSTOM NAMEPLATE AS INDICATED FOR ALL PANELBOARDS, MCC'S, SWITCHBOARDS, SWITCHGEAR, TRANSFER SWITCHES, GENERATORS ETC.
2. NAMEPLATE SHALL BE ENGRAVED (WHITE LETTERING, BLACK BACKGROUND) AND ATTACHED TO THE EQUIPMENT WITH SCREWS. LETTERING SHALL BE 1/4" HIGH WITH SPACE BETWEEN LINES 1/8" MINIMUM. MINIMUM SHALL BE 8"H x 8"W.
3. PROVIDE SAMPLE NAMEPLATE FOR REVIEW.
4. THE AVAILABLE SHORT CIRCUIT AND OCPD CLEARING TIME SHOULD BE PROVIDED AT THE SERVICE ENTRANCE IF GREATER THAN OR EQUAL TO 1200A.

1 E-000 EQUIPMENT NAMEPLATE DETAIL
NTS

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Revisions:

CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

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STATE OF NEW YORK · CORBETT DANIEL COATES · 094525 · LICENSED PROFESSIONAL ENGINEER

Reg. Exp: 04/30/2029
Cert. of Auth: 0018443

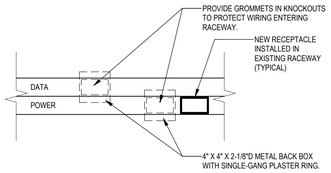
E-000

GENERAL NOTES, SYMBOLS LIST & DETAILS - ELECTRICAL

Scale: NTS
06/15/2026

Rhodes Hall
B50 Lab Renovation

Cornell University
Ithaca, NY 14850



NOTES

A. DUAL-CHANNEL SURFACE METAL RACEWAY BASIS OF DESIGN IS LEGRAND WIREMOLD 4000-SERIES WITH DIVIDER.

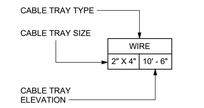
B. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND CIRCUITING.

C. PROVIDE QUANTITY OF BACK BOXES AND FEEDS AS NEEDED TO SERVE ALL POWER AND LOW-VOLTAGE DEVICES. PROVIDE (1) 1"C PER 4 CABLE DROPS TO ALLOW FOR FUTURE EXPANSION.

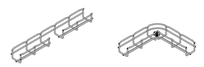
D. FINISH PER ARCHITECT.

E. COORDINATE ELEVATION AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.

5 E-100 DUAL CHANNEL SURFACE METAL RACEWAY DETAIL - CONCEALED FEED
NTS



4 E-100 CABLE TRAY TAG KEY
NTS



3 E-100 90-DEGREE BENDS
NTS

GENERAL NOTES

A ALL LIGHTING AND LIGHTING CONTROLS ARE NOT DEPICTED ON THE DRAWING, BUT ARE EXISTING TO REMAIN.

B ALL CABLE TRAYS MUST HAVE ALL BURRS AND SHARP EDGES FILED SMOOTH, INCLUDING FACTORY EDGES, FACTORY SURFACES, AND FIELD CUTS.

C ALTERNATE #1: PROVIDE CABLE TRAYS WITHIN THE DRONE FLYING AREA AT THE LOCATIONS INDICATED ON THE DRAWINGS IN LIEU OF ATTACHING CABLES TO THE SPEED RAILS WITH ZIP TIES. REFER TO ARCHITECTURAL DETAILS FOR MOUTNING LOCATION OF CABLE TRAYS.

D ALTERNATE #1: AT LOCATIONS OF TRAY INTERSECTIONS, CONTRACTOR TO CUT AND DEBURR EDGES OF TRAY.

E ALTERNATE #1: ANYWHERE BASKET TRAY HAS BEEN CUT, CONTRACTOR TO DEBURR EDGES OF TRAY. ALL SECTIONS OF TRAY TO BE BONDED.

F ALTERNATE #1: DO NOT PAINT TRAY.

G ALTERNATE #1: ALL CABLE TRAY TO BE WIRE MESH BASKET. ALL BENDS ARE TO BE MADE IN FIELD. PROVIDE DROPOUTS AT ENDS OF TRAY AND AT TRANSITIONS.

H ALTERNATE #1: REFER TO ARCHITECTURAL DETAILS FOR MOUNTING LOCATION OF CAMERA RAIL AND J-HOOKS.

I ALTERNATE #1: PROVIDE #6AWG GROUND WIRE FROM GROUND BUS IN EXISTING PANEL PP-MAE403 TO CABLE TRAY.

ⓧ DRAWING NOTES:

1 INSTALL DUPLEX RECEPTACLES IN EXISTING TO REMAIN RACEWAY.

2 ALTERNATE #1: 4" X 2" WIRE MESH STYLE BASKET CABLE TRAY FOR MOTION CAPTURE CAMERA WIRING. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING LOCATION. PROVIDE WALL SUPPORTS FOR CABLE TRAY BY SAME MANUFACTURER. COORDINATE ROUTE AND DISTANCE FROM WALL WITH EXISTING SERVICES.

3 REFER TO SHEET E-110 FOR TRANSFORMER RELOCATION.

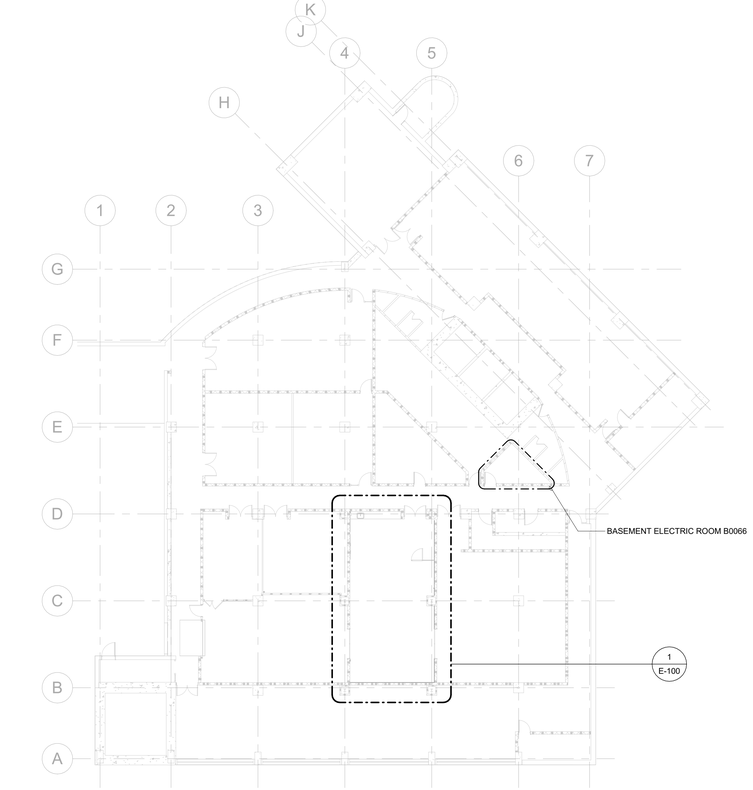
4 PROVIDE J-HOOKS AT 3' ON CENTER.

5 CIRCUIT RECEPTACLES TO EXISTING PANEL UP-MAE403, CIRCUIT 32. UTILIZE EXISTING SPARE CIRCUIT BREAKER AND (2)#12 AWG & (1)#12 EG IN 3/4" CONDUIT.

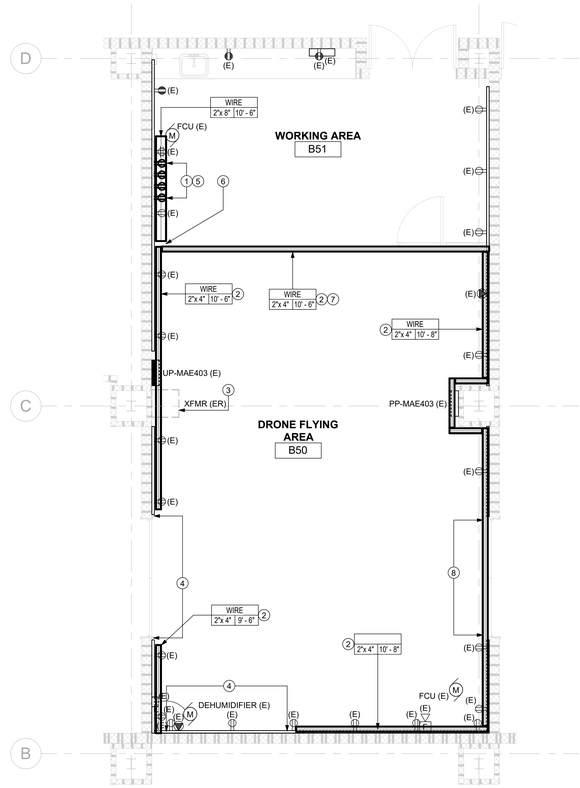
6 ALTERNATE #1: COORDINATE GAP BETWEEN 2" X 8" CABLE TRAY AND 2" X 4" CABLE TRAY WITH ARCHITECTURAL DETAILS FOR NETTING SUPPORTS.

7 ALTERNATE #1: REFER TO ARCHITECTURAL DETAILS FOR CABLE TRAY SUPPORTS AT CURTAIN TRANSOM.

8 ALTERNATE #1: MAINTAIN 7'-0" REMOVABLE CABLE TRAY ABOVE DOOR. REFER TO ARCHITECTURAL DRAWINGS.



2 E-100 BASEMENT FLOOR PLAN - OVERALL
1/16" = 1'-0"



1 E-100 PARTIAL BASEMENT PLAN - POWER AND FIRE ALARM
1/4" = 1'-0"

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Revisions:

CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

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Cert. of Auth: 0018443

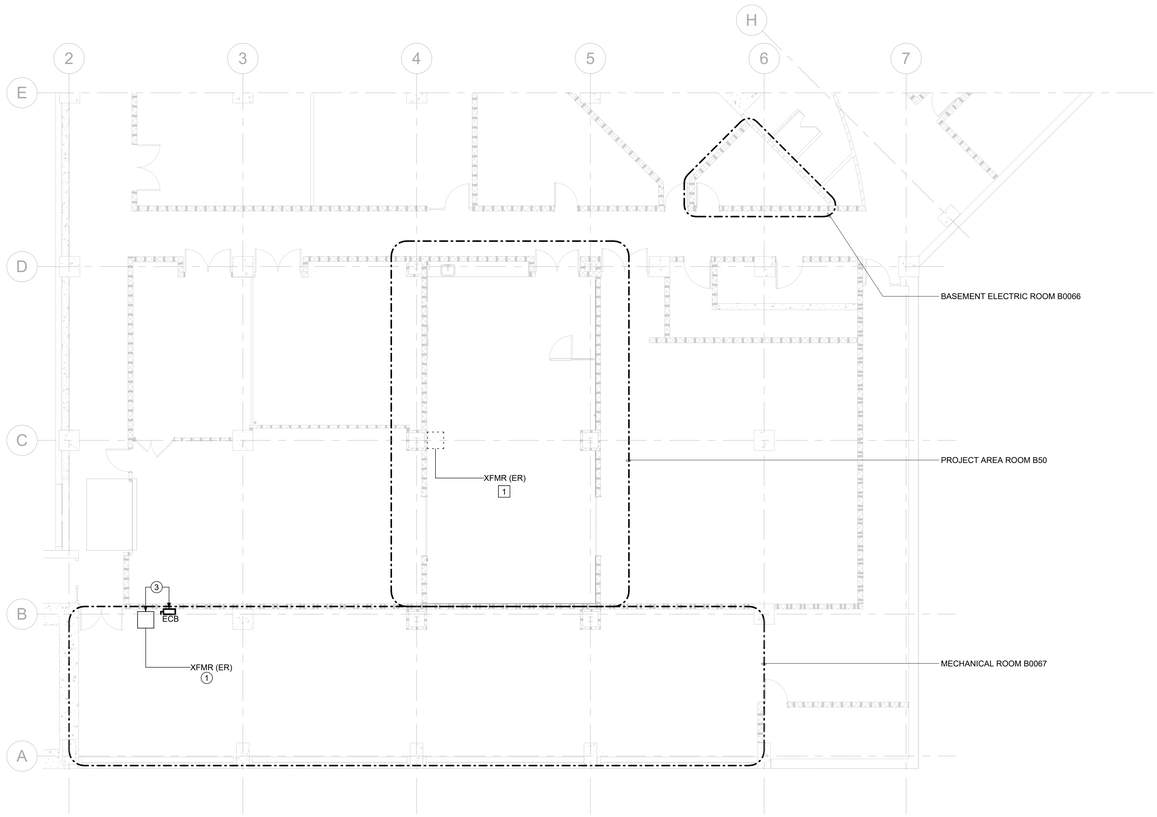
E-100

PARTIAL BASEMENT PLANS - ELECTRICAL

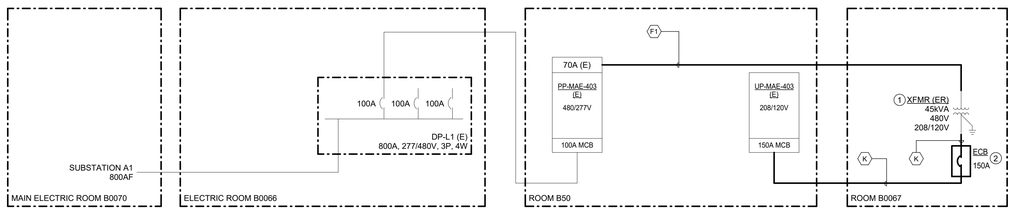
Scale: As indicated
06/15/2026

Rhodes Hall
B50 Lab Renovation

Cornell University
Ithaca, NY 14850



3 / E-110 BASEMENT FLOOR PLAN - OVERALL - TRANSFORMER RELOCATION
1/8" = 1'-0"



2 / E-110 POWER ONE LINE DIAGRAM
NTS

X DEMOLITION NOTES:

1 DISCONNECT EXISTING TRANSFORMER AND PREPARE IT FOR RELOCATION TO MECHANICAL ROOM B0067.

X DRAWING NOTES:

1 RELOCATE EXISTING TRANSFORMER TO MEHCANICAL ROOM B0067. PROVIDE 4" CONCRETE HOUSEKEEPING PAD. REFER TO OVERALL FLOOR PLAN FOR LOCATION. PROVIDE NEW FEEDS AS SHOWN.

2 PROVIDE 150A ENCLOSED CIRCUIT BREAKER ON SECONDARY OF EXISTING-TO-BE-RELOCATED TRANSFORMER.

3 COORDINATE LOCATION OF RELOCATED TRANSFORMER AND ENCLOSED CIRCUIT BREAKER WITH REQUIRED CLEARANCES TO EXISTING EQUIPMENT IN MECHANICAL ROOM B0067.

COPPER FEEDER SIZE SCHEDULE (600V)

OCPD RATING	3-WIRE FEEDER AND EQUIPMENT GROUNDING CONDUCTOR (EGC)					4-WIRE FEEDER AND EQUIPMENT GROUNDING CONDUCTOR (EGC)				
	IDENT. (X1)	NUMBER OF SETS	WIRE SIZE	EGC	EMT CONDUIT	IDENT. (X)	NUMBER OF SETS	WIRE SIZE	EGC	EMT CONDUIT
20	A1	1	12	12	3/4"	A	1	12	12	3/4"
25,30	B1	1	10	10	3/4"	B	1	10	10	3/4"
35,40	C1	1	8	10	3/4"	C	1	8	10	3/4"
45	D1	1	6	10	3/4"	D	1	8	10	3/4"
50,60	E1	1	6	10	3/4"	E	1	6	10	1"
70,80	F1	1	4	8	1"	F	1	4	8	1 1/4"
90	G1	1	3	8	1"	G	1	3	8	1 1/4"
100	H1	1	2	8	1 1/4"	H	1	3	8	1 1/4"
110	I1	1	2	6	1 1/4"	I	1	2	6	1 1/4"
125	J1	1	2	6	1 1/4"	J	1	1	6	1 1/2"
150	K1	1	1/0	6	1 1/2"	K	1	1/0	6	1 1/2"
175	L1	1	2/0	6	1 1/2"	L	1	2/0	6	2"
200	M1	1	3/0	6	2"	M	1	3/0	6	2"
225	N1	1	4/0	4	2"	N	1	4/0	4	2 1/2"
250	O1	1	4/0	4	2"	O	1	250	4	2 1/2"
300	P1	1	300	4	2 1/2"	P	1	350	4	2 1/2"
350	Q1	1	400	3	2 1/2"	Q	1	500	3	3"
400	R1	1	500	3	2 1/2"	R	1	600	3	3 1/2"
450	S1	1	600	2	3"	S	2	4/0	2	2 1/2"
500	T1	2	4/0	2	2"	T	2	250	2	2 1/2"
600	U1	2	300	1	2 1/2"	U	2	350	1	2 1/2"
700	V1	2	400	1/0	2 1/2"	V	2	400	1/0	3"
800	W1	2	600	1/0	2 1/2"	W	2	600	1/0	4"
1000	X1	3	400	2/0	2 1/2"	X	3	500	2/0	3"
1200	Y1	3	600	3/0	3"	Y	4	400	3/0	3"
1600	Z1	4	600	4/0	3"	Z	5	500	4/0	3"
2000	AA1	5	600	250	3"	AA	6	500	250	3"
2500	BB1	6	600	350	3"	BB	7	600	350	4"
3000	CC1	8	500	400	3"	CC	8	600	400	4"
4000	DD1	10	600	500	3"	DD	11	600	500	4"
5000	EE1	12	600	700	4"	EE	14	600	700	4"
6000	FF1	15	600	800	4"	FF	16	600	800	4"

NOTES:

A. WHERE MULTIPLE SETS ARE SPECIFIED, PROVIDE PHASE, NEUTRAL (IF REQUIRED), AND EGC OF WIRE SIZE INDICATED IN EACH CONDUIT. CONDUCTORS AND CONDUITS SHALL BE EQUAL IN LENGTH AND EACH BE OF SAME MANUFACTURER.

B. MINIMUM EMT CONDUIT SIZE IS BASED ON 40% FILL.

C. A 3-WIRE FEEDER IS (3) PHASE CONDUCTORS WHEN PROTECTED BY A 3-POLE OCPD.
A 3-WIRE FEEDER IS (2) PHASE CONDUCTORS AND (1) NEUTRAL CONDUCTOR WHEN PROTECTED BY A 2-POLE OCPD.
A 4-WIRE FEEDER IS (3) PHASE CONDUCTORS & (1) NEUTRAL CONDUCTOR.
A 5-WIRE FEEDER IS (3) PHASE CONDUCTORS & (2) NEUTRAL CONDUCTORS.

1 / E-110 COPPER FEEDER SCHEDULE
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E-110

TRANSFORMER RELOCATION PLAN - ELECTRICAL

Scale: NTS
06/15/2026

Rhodes Hall
B50 Lab Renovation

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Ithaca, NY 14850

ABBREVIATIONS

ABBREV.	DESCRIPTION
A	AMPERE
AAD	AUTOMATIC AIR DAMPER
AIC	AMPERE INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTING
AII	AIRBORNE INFECTION ISOLATION
AL	ALUMINUM
ARS	ARC ENERGY REDUCTION SWITCH
ASD	ADJUSTABLE SPEED DRIVE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED-CIRCUIT TELEVISION
CLG	CEILING
CM	CONSTRUCTION MANAGER
CONT	CONTACTOR
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CT	CABLE TRAY
CU	COPPER
DN	DOWN
DP	DISTRIBUTION PANEL
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATP	FIRE ALARM TRANSPONDER PANEL
FBO	FURNISHED BY OTHERS
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MULTI-FUNCTION RELAY
MH	MAN HOLE
MI	MINERAL INSULATED CABLE
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC SHEATHED CABLE
NMT	NON-METALLIC TUBING
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	MOUNTED OVER COUNTER
OH	OVERHEAD
P	POLE
PB	PULL BOX
PC	PLUMBING CONTRACTOR OR PHOTOCELL
PH	PHASE
PG	POLYCARBONATE GUARD
PNL	PANEL
PT	POTENTIAL TRANFORMER
PTZ	PAN TILT ZOOM
PV	PHOTOVOLTAIC
REFR	REFRIGERATOR
RMC	RIGID METAL CONDUIT
SP	SPACE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
THD	TOTAL HARMONIC DISTORTION
TV	TELEVISION
TYP	TYPICAL
UC	MOUNTED UNDER COUNTER HEIGHT OR UNDERGROUND COMMUNICATION
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
W	WIRE OR WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XP	EXPLOSION PROOF
VP	VANDAL-PROOF POLYCARBONATE GUARD

COMMUNICATIONS

SYMBOL	DESCRIPTION
▽	TEL/DATA DROP, EXISTING
▼	TEL/DATA DROP: 4"x4"x2.50" BOX WITH A 1-GANG MUD RING & FACEPLATE WITH DUPLEX DESIGN. 1" CONDUIT EXTENDED TO NEAREST CABLE TRAY IN CORRIDOR (UNLESS OTHERWISE NOTED) FOR DATA/VOICE. TERMINATE CONDUIT AT J HOOK IN CORRIDOR WITH CONDUIT BUSHING. PULL (2) CAT 6A CABLE, TERMINATE AT PATCH PANEL IN BDF. W - SINGLE GANG BACK BOX WITH MUD RING AND 1" CONDUIT EXTENDED TO NEAREST CABLE TRAY IN CORRIDOR (UNLESS OTHERWISE NOTED) FOR DATA/VOICE. WALL MOUNT AT 46"AFF. PROVIDE (1) CAT 6A CABLE TO BDF. DDC - SINGLE GANG BOX WITH BLANK COVER PLATE. PROVIDE 3/4"C STUBBED TO ACCESSIBLE CEILING SPACE ABOVE. DDC ALARM WIRING BY DIV 23. C - CAMERA. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. TV - COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
WAP	WAP - WIRELESS ACCESS POINT MOUNTED FROM CEILING AT SAME AFF HEIGHT AS EXISTING LIGHT FIXTURES. SUPPORT WITH THREADED ROD. COORDINATE LOCATION WITH CIT. 4"x4"x2.25" BOX WITH DOUBLE GANG PLASTER RING. 1" EMT CONDUIT EXTENDED TO NEAREST CABLE TRAY IN CORRIDOR (UNLESS OTHERWISE NOTED). PROVIDE (2) CAT 6A CABLES. TERMINATE IN BDF AND 6-8" PIGTAIL WITHOUT FACEPLATE
J AV	AV JUNCTION BOX. BACK BOX SIZE AND MUD RING SIZE PER DETAILS AND PLANS. COORDINATE ELEVATIONS WITH ARCHITECT. PROVIDE BLANK COVERS.

GENERAL NOTES: (APPLY TO ALL DRAWINGS):

A. THESE DRAWINGS MUST BE USED IN CONJUNCTION WITH NETWORK DEVICES AND ELECTRICAL SPECIFICATIONS.

B. FURNISH AND INSTALL FIRE STOP TO ALL SLAB AND WALL PENETRATIONS PROVIDED FOR THE INSTALLATION OF NETWORK CABLE AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL.

C. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE CONTRACT DRAWINGS AND FIELD CONDITIONS.

D. INSTALL ALL COMPONENTS AS PER MANUFACTURER'S RECOMMENDATION AND PER ALL APPLICABLE CODES.

E. INDICATE ALL MOUNTING REQUIREMENTS IN THE LEGEND UNLESS OTHERWISE NOTED.

F. VERIFY AND COORDINATE THE EXACT MOUNTING LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.

G. THE MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED.

H. RESTORE CEILINGS AND WALLS AND ANY OTHER SURFACES AFFECTED BY THIS WORK WITH LIKE MATERIALS TO MATCH EXISTING CONSTRUCTION UPON COMPLETION OF NETWORK WORK.

I. ALL NOTES AND SYMBOLS ON SHEET E-000 SHALL APPLY TO THE TN-SERIES DRAWINGS.

CABLE SCHEDULE

MLC	RLC	PORT	TR	RACK/ CABINET	PATCH PANEL	PORT	CIT LABEL	NOTES
B50	G	1	TB-152A	(E)	(E)	(E)	B50-G1	1
B50	G	2	TB-152A	(E)	(E)	(E)	B50-G2	1
B50	G	3	TB-152A	(E)	(E)	(E)	B50-G3	1
B50	J	1	TB-152A	(E)	(E)	SEE NOTE 2	B50-J1	2
B50	J	2	TB-152A	(E)	(E)	SEE NOTE 2	B50-J2	2
END OF SCHEDULE								

REFERENCE NOTES:

A. FURNISH AND INSTALL NEW PATCH PANEL(S) IN EXISTING EQUIPMENT RACK AS REQUIRED. MATCH EXISTING PATCH PANEL TYPE. PROVIDE HORIZONTAL CABLE MANAGEMENT.

1. SHORTEN CABLES FOR EXISTING-TO-BE-RELOCATED DATA DROP. DESIGNATION AND CONNECTION TO PATCH PANEL WILL NOT CHANGE. VERIFY INTEGRITY OF EXISTING CABLE, PROVIDE TERMINATION IN FIELD. PROVIDE TERMINATION AT PATCH PANEL IF NEEDED.

2. NEW DATA DROP FOR WIRELESS ACCESS POINT. CONNECT IT TO NEXT AVAILABLE PORTS IN EXISTING PATCH PANEL.

GENERAL NOTES

A MOTION CAPTURE CAMERAS PROVIDED AND INSTALLED BY OTHERS.

X DRAWING NOTES:

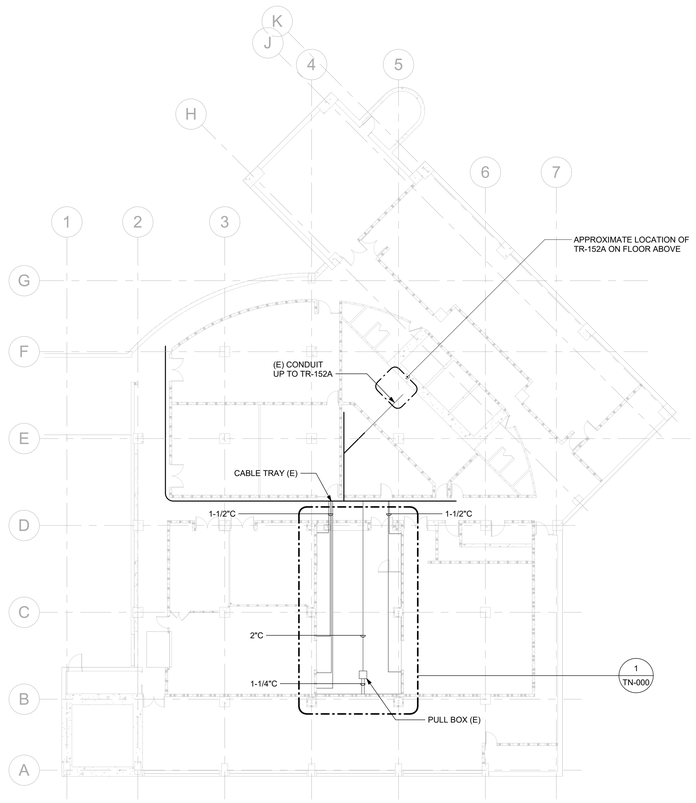
1 WIRELESS ACCESS POINT TO BE PENDANT-MOUNTED AT SAME ELEVATION AS OTHER CEILING-MOUNTED COMPONENTS. PROVIDE ALL REQUIRED SUPPORTS FOR BOXES AND PATHWAYS. COORDINATE WIRELESS ACCESS POINT REQUIREMENTS WITH CIT. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.

2 RELOCATE EXISTING DATA DROP IN EXISTING RACEWAY. REWORK AND RETERMINATE CABLING AS NECESSARY FOR A FUNCTIONAL INSTALLATION.

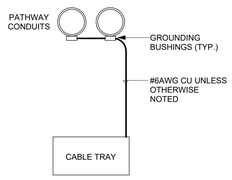
3 EXISTING DATA DROP. DESIGNATION SHALL REMAIN UNCHANGED.

X DEMOLITION NOTES:

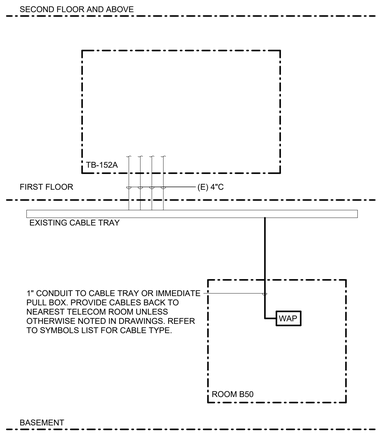
1 REMOVE EXISTING DATA DROP IN EXISTING RACEWAY FOR RELOCATION. RETAIN ALL CABLING FOR REUSE AND REINSTALLATION.



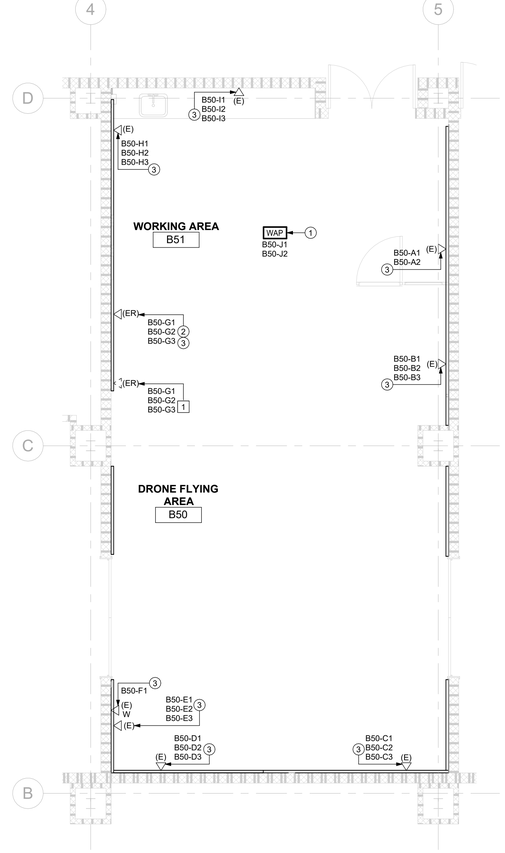
4 TN-000 BASEMENT FLOOR PLAN - OVERALL - NETWORK
1/16" = 1'-0"



3 TN-000 PATHWAY GROUNDING
NTS



2 TN-000 DATA ONE LINE DIAGRAM
NTS



1 TN-000 PARTIAL BASEMENT PLAN - NETWORK
1/4" = 1'-0"

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Key Plan:

Seal:

STATE OF NEW YORK · CORBETT DANIEL COLE · 094525 · LICENSED PROFESSIONAL ENGINEER

Reg. Exp: 04/30/2029
Cert. of Auth: 0018443

TN-000

GENERAL NOTES, SYMBOLS LIST & PARTIAL BASEMENT PLAN - NETWORK

Scale: As indicated
06/15/2026

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ABBREVIATIONS

ABBREV.	DESCRIPTION
A	AMPERE
AAD	AUTOMATIC AIR DAMPER
AIC	AMPERE INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTING
AII	AIRBORNE INFECTION ISOLATION
AL	ALUMINUM
ARS	ARC ENERGY REDUCTION SWITCH
ASD	ADJUSTABLE SPEED DRIVE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED-CIRCUIT TELEVISION
CLG	CEILING
CM	CONSTRUCTION MANAGER
CONT	CONTACTOR
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CT	CABLE TRAY
CU	COPPER
DN	DOWN
DP	DISTRIBUTION PANEL
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATP	FIRE ALARM TRANSPONDER PANEL
FBO	FURNISHED BY OTHERS
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MULTI-FUNCTION RELAY
MH	MAN HOLE
MI	MINERAL INSULATED CABLE
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC SHEATHED CABLE
NMT	NON-METALLIC TUBING
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	MOUNTED OVER COUNTER
OH	OVERHEAD
P	POLE
PB	PULL BOX
PC	PLUMBING CONTRACTOR OR PHOTOCELL
PH	PHASE
PG	POLYCARBONATE GUARD
PNL	PANEL
PT	POTENTIAL TRANFORMER
PTZ	PAN TILT ZOOM
PV	PHOTOVOLTAIC
REFR	REFRIGERATOR
RMC	RIGID METAL CONDUIT
SP	SPACE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
THD	TOTAL HARMONIC DISTORTION
TV	TELEVISION
TYP	TYPICAL
UC	MOUNTED UNDER COUNTER HEIGHT OR UNDERGROUND COMMUNICATION
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
W	WIRE OR WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XP	EXPLOSION PROOF
VP	VANDAL-PROOF POLYCARBONATE GUARD

ACCESS CONTROL

SYMBOL	DESCRIPTION
CR	CARD READER
DC	DOOR CONTACT
J AC	ACCESS CONTROL JUNCTION BOX
	ACCESS CONTROL PANEL
A	WIRELESS CARD ACCESS SYSTEM ANTENNA

GENERAL NOTES: (APPLY TO ALL DRAWINGS):

A. THESE DRAWINGS MUST BE USED IN CONJUNCTION WITH THE SECURITY SYSTEM AND ELECTRICAL SPECIFICATIONS.

B. FURNISH AND INSTALL FIRE STOP TO ALL SLAB AND WALL PENETRATIONS PROVIDED FOR THE INSTALLATION OF SECURITY CABLE AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL.

C. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE CONTRACT DRAWINGS AND FIELD CONDITIONS.

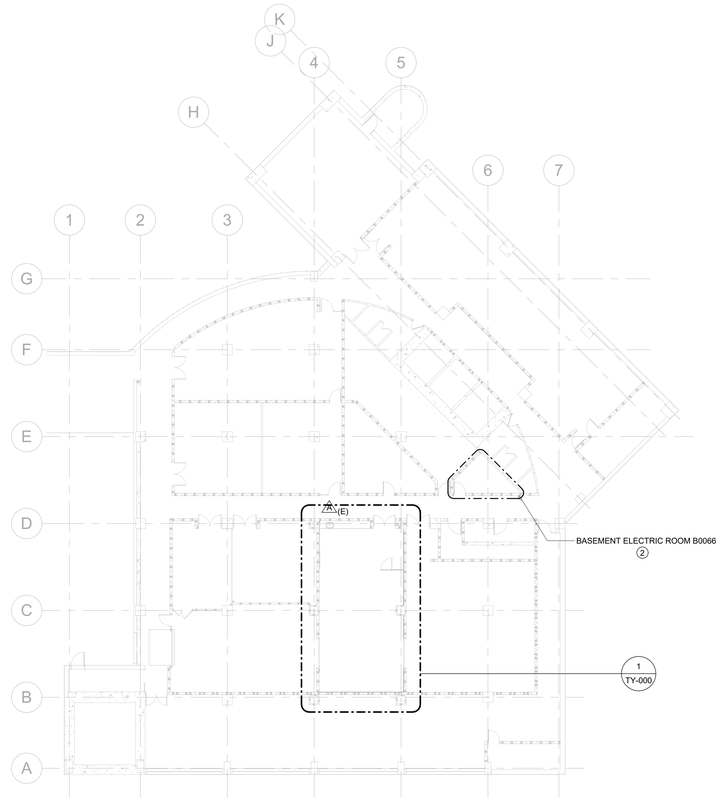
D. INSTALL ALL COMPONENTS AS PER MANUFACTURER'S RECOMMENDATION AND PER ALL APPLICABLE CODES.

E. INDICATE ALL MOUNTING REQUIREMENTS IN THE LEGEND UNLESS OTHERWISE NOTED.

F. VERIFY AND COORDINATE THE EXACT MOUNTING LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.

G. RESTORE CEILINGS AND WALLS AND ANY OTHER SURFACES AFFECTED BY THIS WORK WITH LIKE MATERIALS TO MATCH EXISTING CONSTRUCTION UPON COMPLETION OF SECURITY WORK.

H. ALL NOTES AND SYMBOLS ON SHEET E-000 SHALL APPLY TO THE TY-SERIES DRAWINGS.

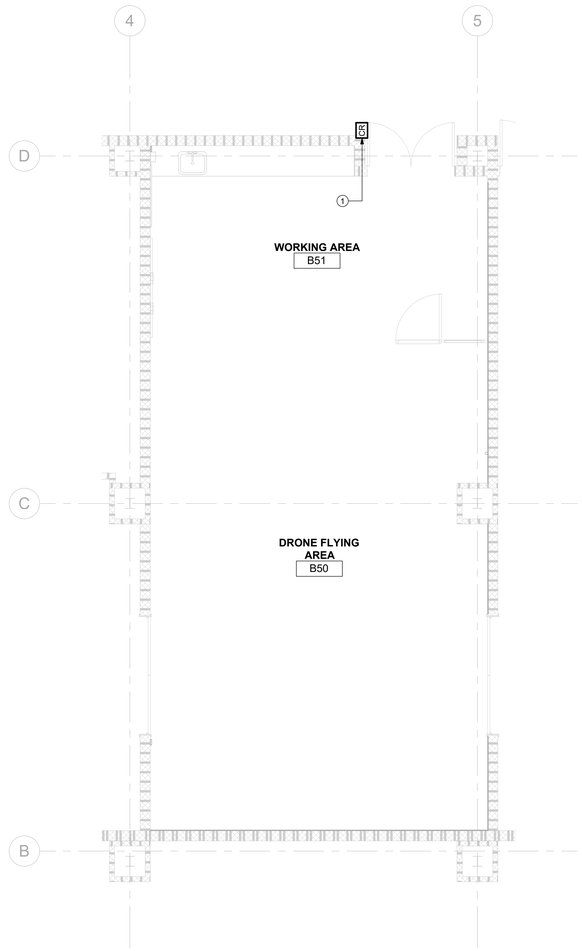


2 TY-000 BASEMENT FLOOR PLAN - OVERALL - SECURITY
1/16" = 1'-0"

DRAWING NOTES:

1 CARD READER IS WIRELESS. REFER TO ARCHITECTURAL DOOR HARDWARE. UNIT TO UTILIZE EXISTING WIRELESS INFRASTRUCTURE. PROVIDE ALL COMPONENTS REQUIRED TO ADD WIRELESS CARD READER TO EXISTING SYSTEM. COORDINATE WITH OWNER FOR PROGRAMMING AND INSTALLATION REQUIREMENTS.

2 EXISTING CARD ACCESS COMPONENTS ARE LOCATED WITHIN ELECTRIC ROOM B0066.



1 TY-000 PARTIAL BASEMENT PLAN - SECURITY
1/4" = 1'-0"

Cornell University

Richard McElhiney Architects LLC
450 Seventh Ave. Suite 2701
New York, NY 10123
212-245-5195 T
212-239-7130 F

Salas O'Brien Consulting and Engineering Group of New York, Inc. (FKA M/E Engineering)
300 Trolley Boulevard
Rochester, NY 14606
585-288-5590 T

Trophy Point
4588 South Park Ave
Blasdell, NY 14219
718-823-0006 T

Delta
800 Hooper Road
Endwell, NY 13760
607-231-6600 T
607-231-6650 F

Revisions:

CONSTRUCTION DOCUMENTS 06-15-2026

Key Plan:

Seal:

STATE OF NEW YORK · CORBETT DANIEL LOCKE · 094525 · LICENSED PROFESSIONAL ENGINEER

Reg. Exp: 04/30/2029
Cert. of Auth: 0018443

TY-000

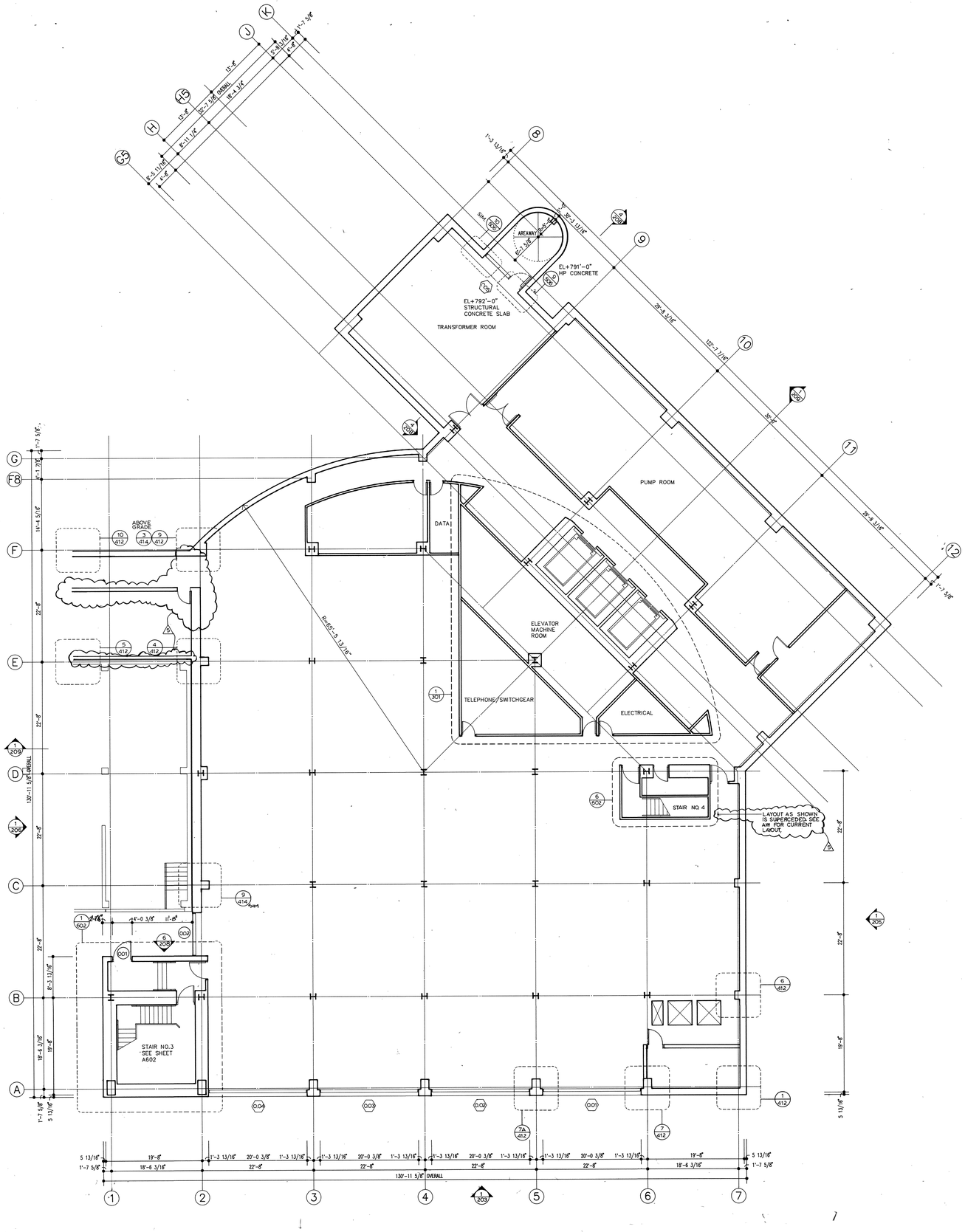
GENERAL NOTES, SYMBOLS LIST, DETAILS & PARTIAL BASEMENT PLAN - SECURITY

Scale: As indicated
06/15/2026

Rhodes Hall
B50 Lab Renovation

Cornell University
Ithaca, NY 14850

Rhodes B50 Laboratory Renovation
Reference Drawings
Existing Building Filed Construction Documents



△5 REVISED AS INDICATED FOR COORDINATION OF ENGINEERING FIT OUTS 6/30/89

The Cornell University College of Engineering

Center for Theory & Simulation in Science and Engineering

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475 Tenth Avenue
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Severud Sangrady
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Structural Engineers
212-986-5700

Jaros, Baum & Bolles
345 Park Ave., New York, N.Y. 10022
Mechanical Engineers
212-758-9000

1/8"
2051 -0-0002-1988-089-008 Cornell University
1/10"

089-008

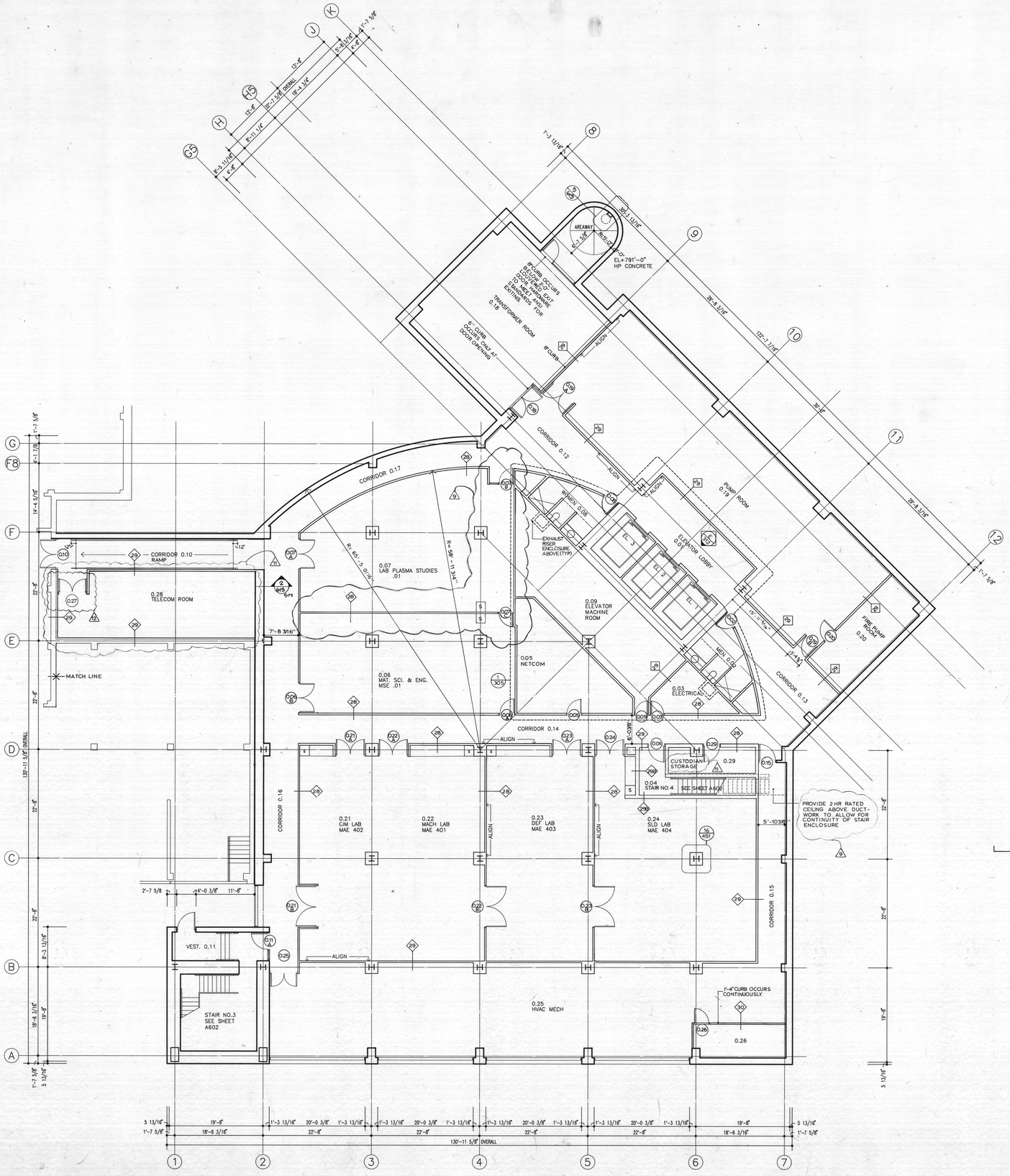
BASEMENT FLOOR PLAN

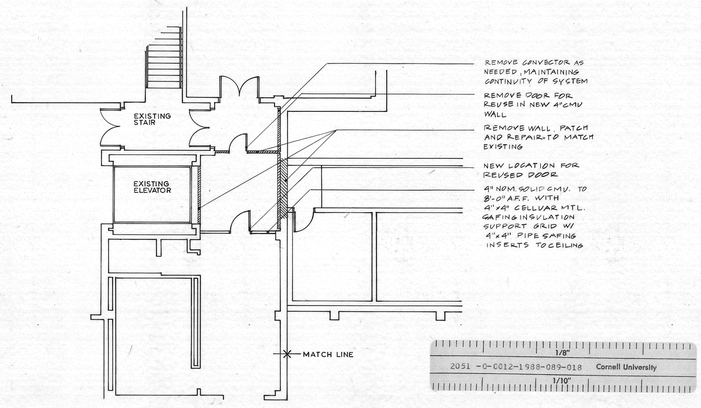
Scale 1/8"=1'-0" Drawn DMB PBB
Date 11/01/88 Checked PBB

A-101

3 1824 112 021 070

NOTES
1. TYPICAL MASONRY DETAIL
2. ALL MASONRY TO CEILING





1/8"
2051 -0-0012-1988-089-018 Cornell University
1/10"

089-18

A ENGINEERING USER REVISIONS 02/08/90
B ENGINEERING USER REVISIONS 12/12/89
C REVISIONS PER MUNICIPAL CODE REVIEW

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Center for Theory & Simulation in Science and Engineering

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475 Tenth Avenue
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212/947-1240

Severud Szegedy
485 s rith Ave., New York N.Y. 10018
Structural Engineers
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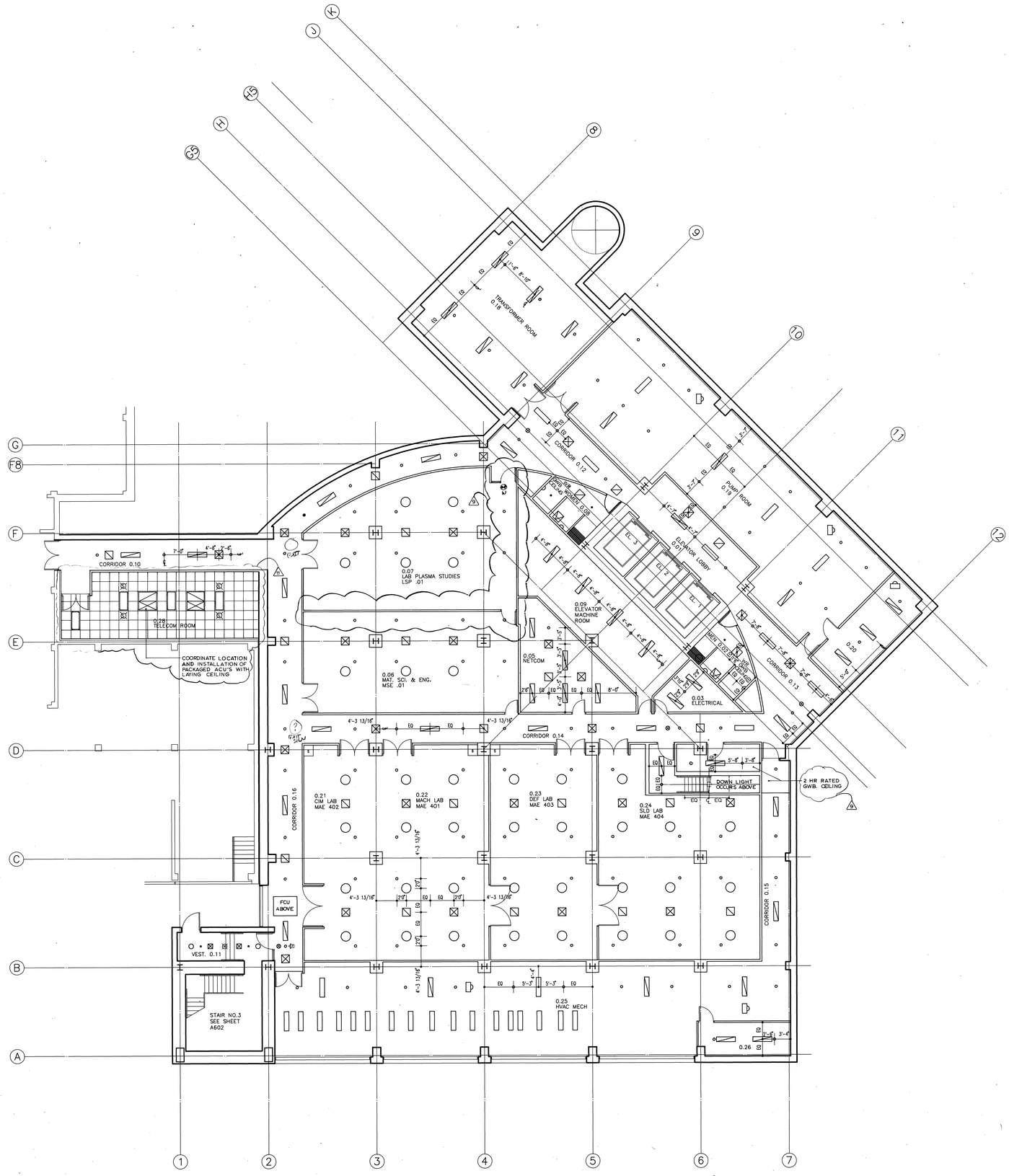
345 Park Ave., New York, N.Y. 10022
Mechanical Engineers
212 758-9000

BASEMENT FLOOR INTERIOR LAYOUT PLAN

Scale 1/8" = 1'-0"
Drawn DMB
Date
Checked PBB

A - 111

3 1924 112 019 368



20.51 - C-0021-1988-089-027 Cornell University

089-27

△1 ENGINEERING USER REVISIONS
△2 REVISIONS PER MUNICIPAL CODE REVIEW

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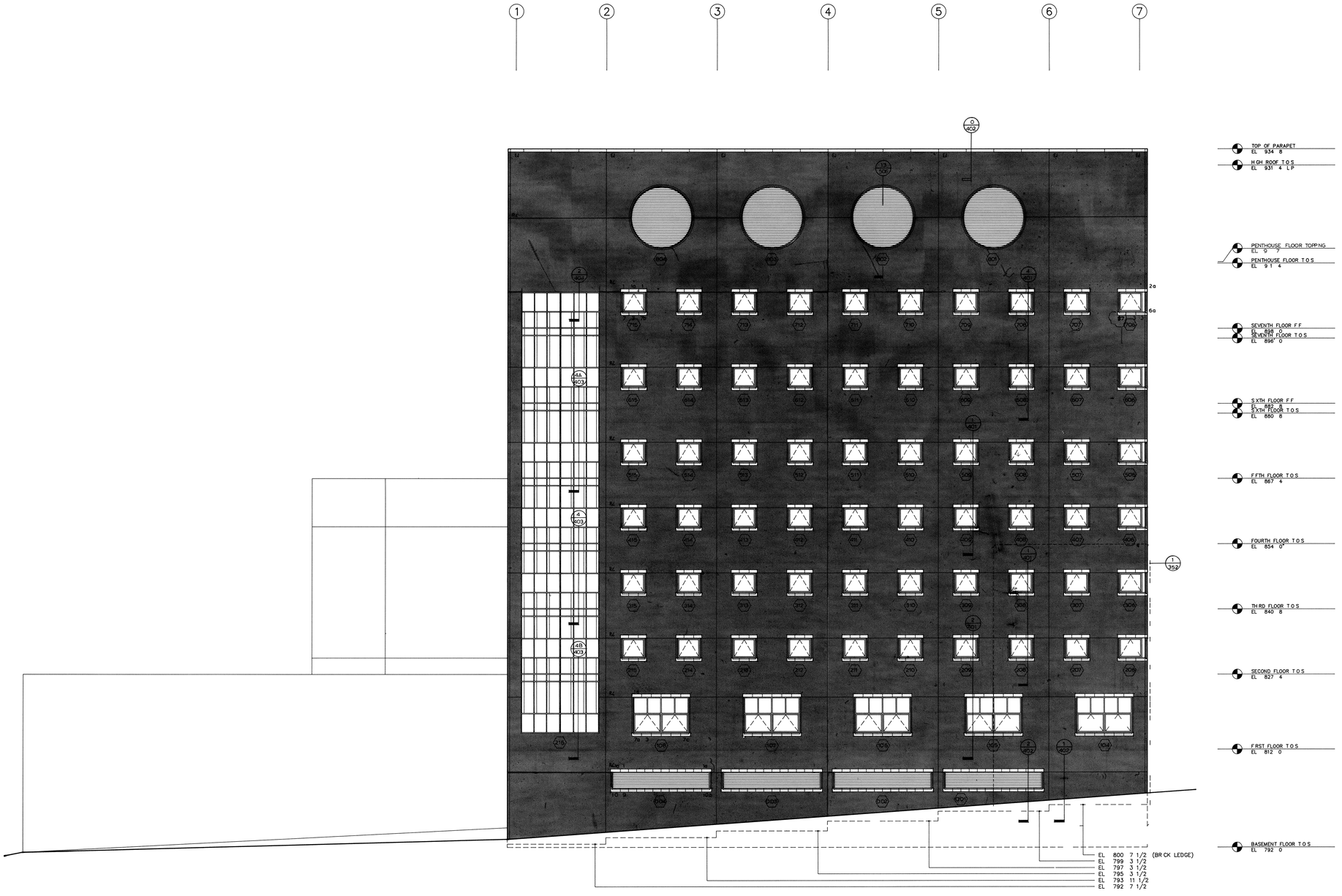
Mechanical Engineers
212/758-9000

BASEMENT
REFLECTED CLG. PLAN

Scale 1/8"=1'-0" Drawn DMB
Date Checked PBB

A-151



1 SOUTH ELEVATION (BLOCK BUILDING)

1/8"
2051 -0-0031-1988 089-037 Cornell University
1/10"

089 37

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Center for Theory & Simulation in Science and Engineering

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212/947 1240

Severud Szegezdy
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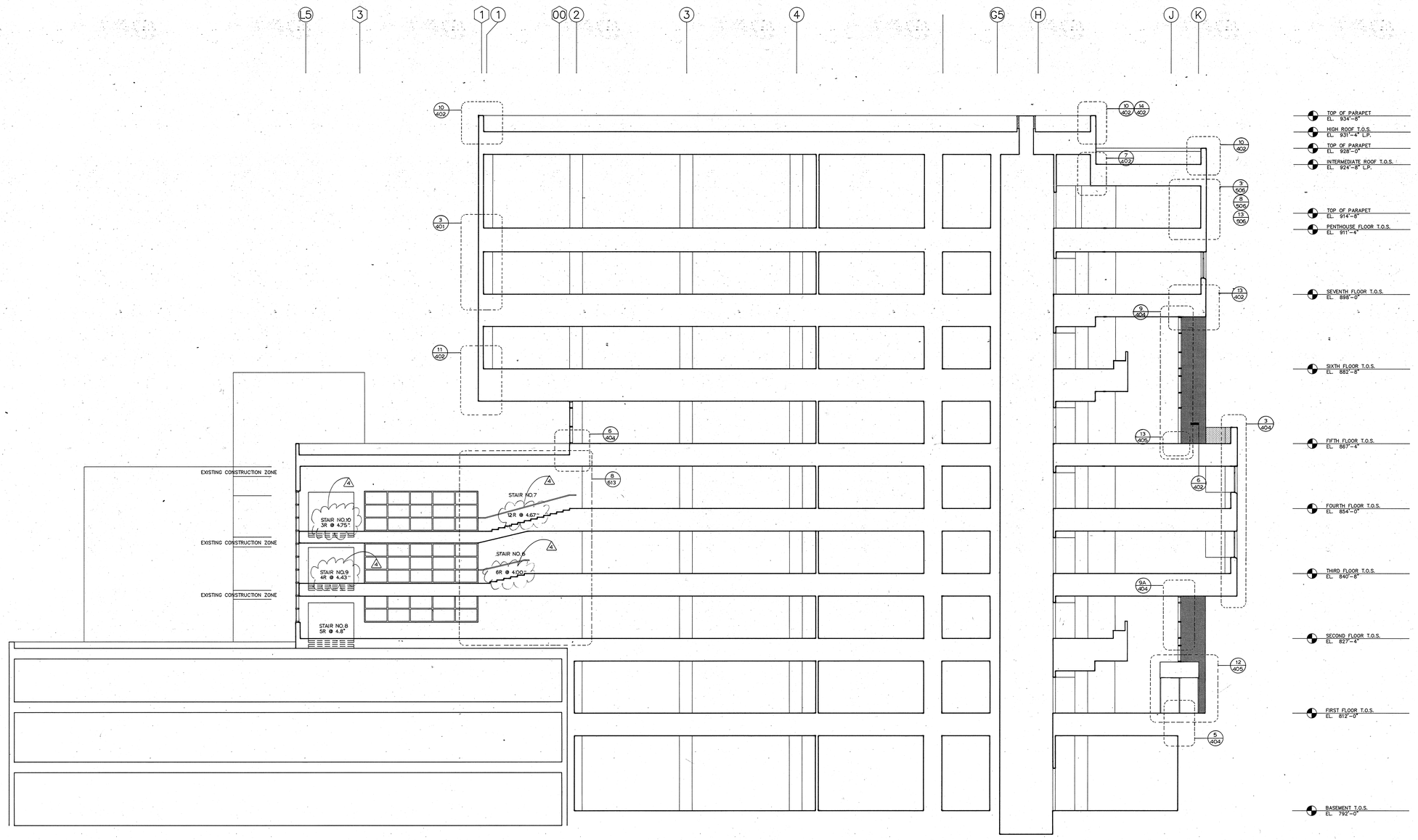
Structural Engineers
212 986-3700

Jaros, Baum & Bolles
345 Park Ave. New York, N Y 10022
Mechanical Engineers
212 758-9000

SOUTH ELEVATION
(BLOCK BLDG)

Scale 1/8 1 0 Drawn DMB
Date 11/01/88 Checked PBB

A-203



1 BUILDING SECTION THRU BLOCK BUILDING & LOBBY

1/8"
2051 -C-0037-1988-089-043 Cornell University
1/10"

089-43

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212/986-5700

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Mechanical Engineers
212/758-9000

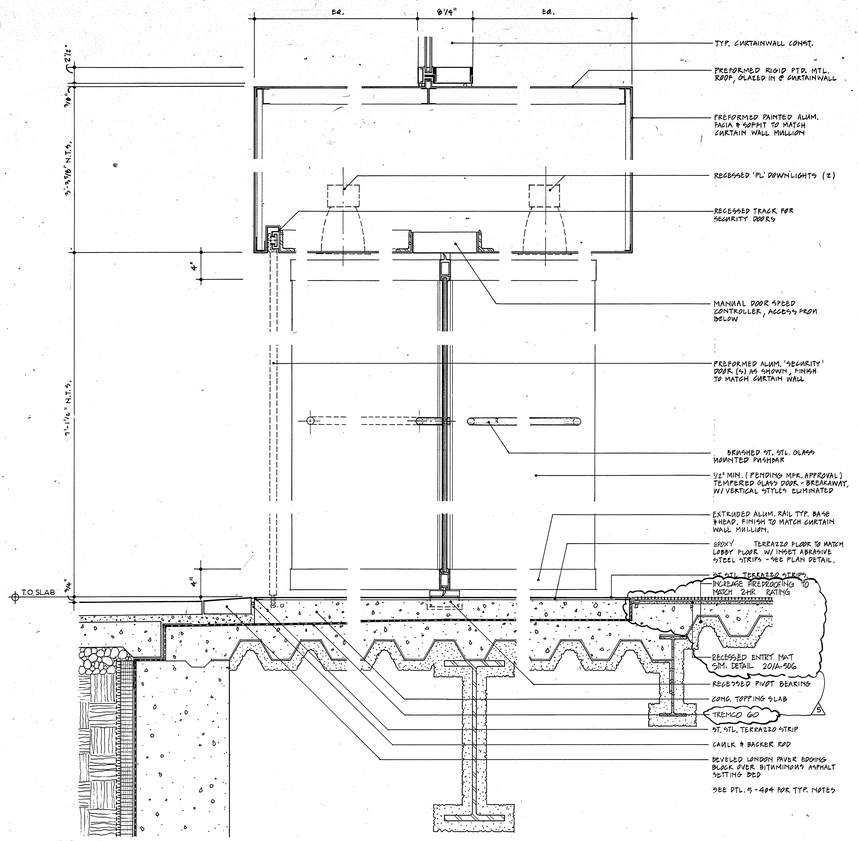
BLDG. SECTION THRU BLOCK BLDG. & LOBBY

Scale 1/8" = 1'-0" Drawn DMB

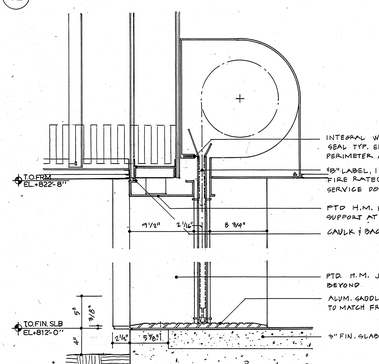
Date 11/01/88 Checked PBB

A-209

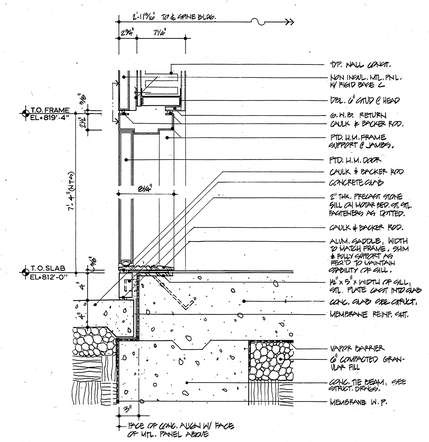
CORNELL UNIVERSITY LIBRARY
3 1924 111 994 888



12 SECTION THRU REVOLVING DOOR



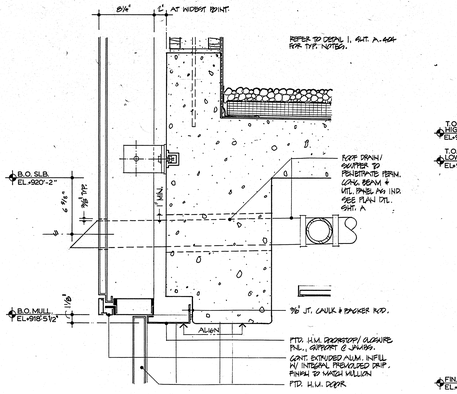
8 SECTION AT ROLLING SERVICE DOOR SPINE BLDG.



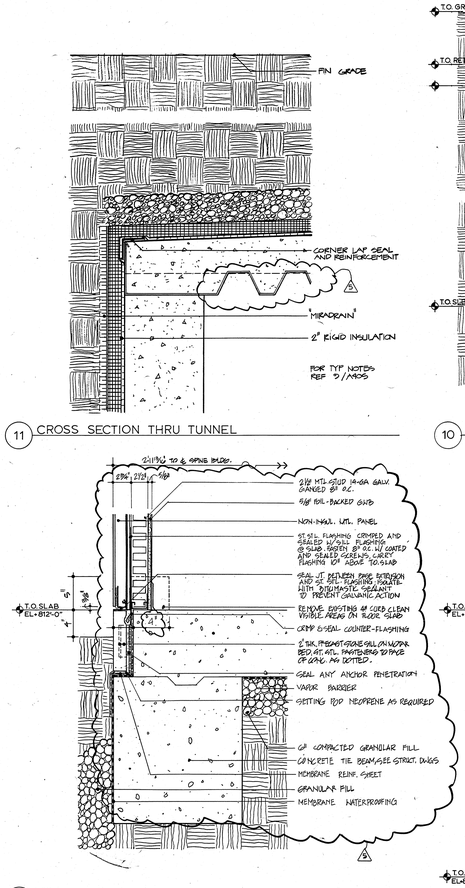
7 SECTION THRU DOOR, VESTIBULE TO STAIRS 1 & 2

5 SECTION AT GRADE, INTERMED COLUMN AT SPINE BLDG.

4 SECTION AT GRADE, SPINE BLDG.



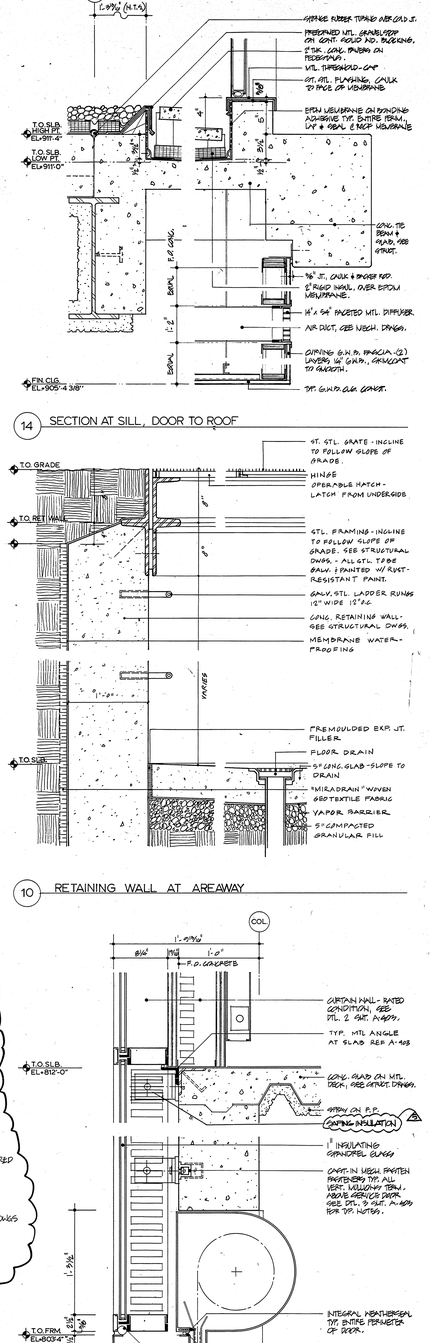
15 SECTION AT HEAD, DOOR TO ROOF



11 CROSS SECTION THRU TUNNEL

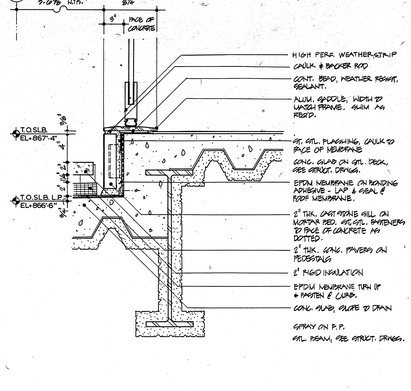
6 SECTION AT GRADE, VESTIBULE TO STAIRS 1 & 2

3 SECTION AT GRADE - CURTAIN WALL AT STAIRS 1 & 2

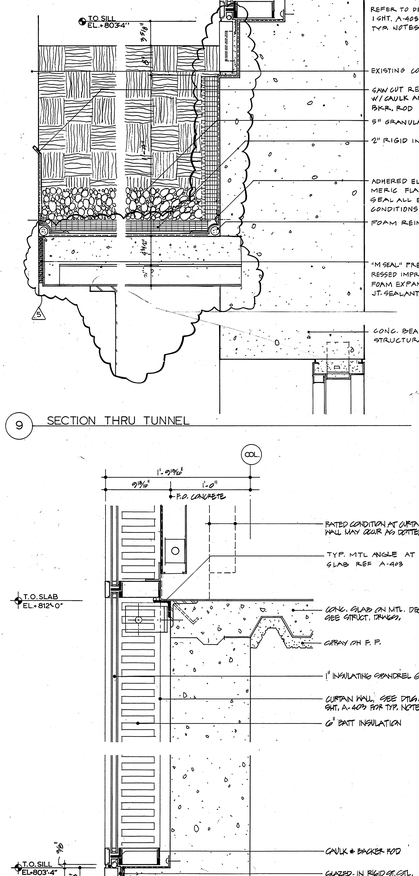


10 RETAINING WALL AT AREAWAY

14 SECTION AT SILL, DOOR TO ROOF



13 SECTION AT SILL, DOOR TO TERRACE



9 SECTION THRU TUNNEL

1 SECTION AT GRADE - CURTAIN WALL AT WEST FACADE

2051 - 0 - 0051 - 1989 - 089 - 057 Cornell University
089 - 57
3 1924 118 515 117

REVISED AS INDICATED FOR COORDINATION OF ENGINEERING FIT-OUT 9/30/89

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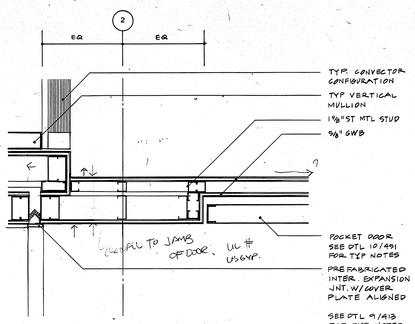
Mechanical Engineers
212-758-9000

CURTAIN WALL / METAL PANEL BASE/ CURB CONDITIONS

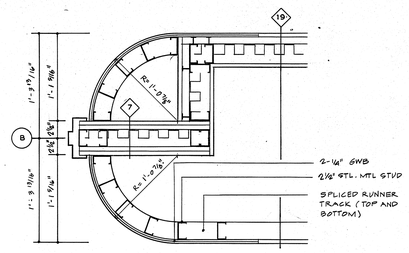
Scale 1 1/2"=1'-0" Drawn G S K

Date 11/01/88 Checked P B B

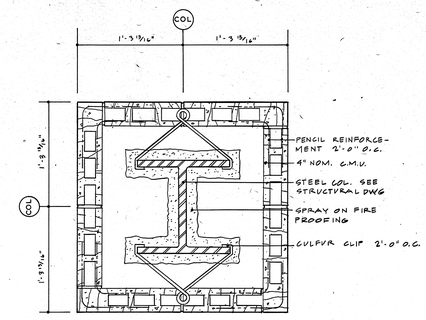
A-405



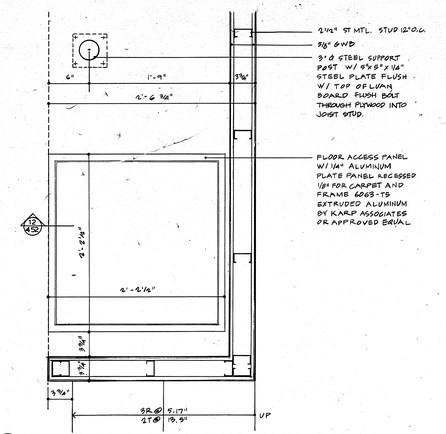
18 COL L1/2 SECOND THROUGH FOURTH FLOORS



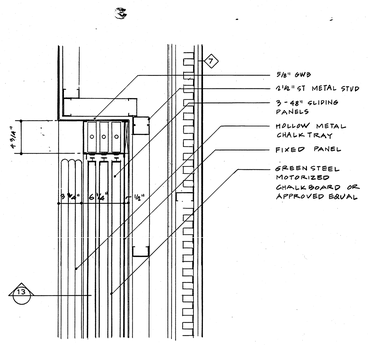
17 BULL NOSE STAIR NO. 3



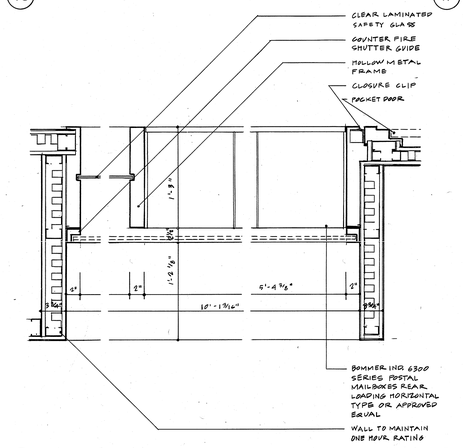
16 TYPICAL COLUMN ENCLOSURE BASEMENT



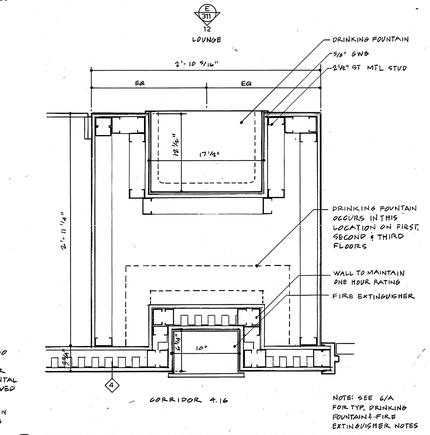
15 TRAINING FACILITY DESK & FLOOR ACCESS PANEL



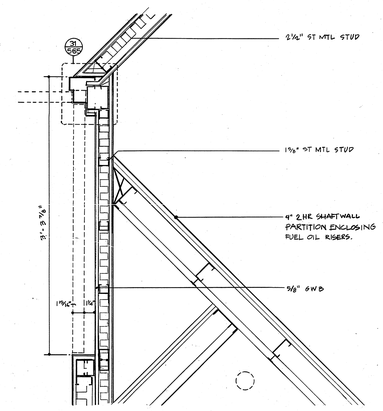
14 TRAINING ROOM CHALKBOARD



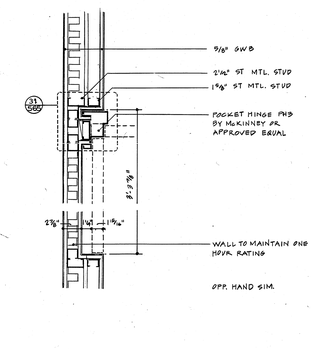
13 PASS-THRU & MAILBOXES 6.16



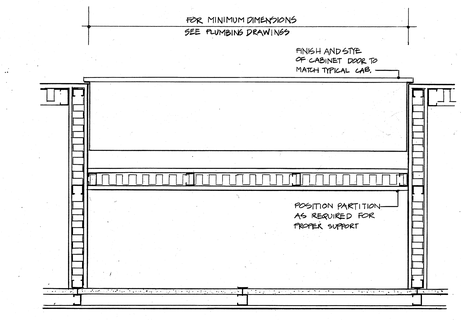
12 FIRE EXTINGUISHER & DRINKING FOUNTAIN LOUNGE



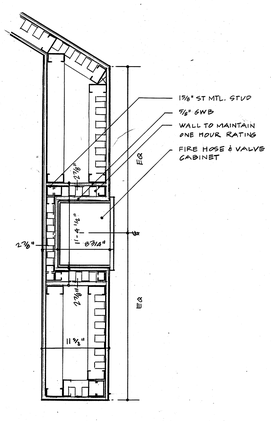
11 POCKET DOOR 417
5.17, 617, 7.17 SIM.



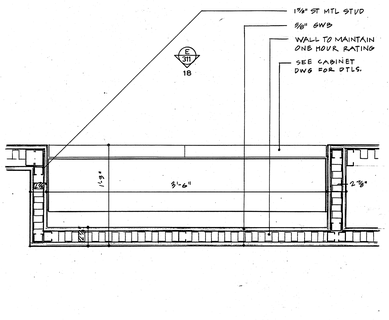
10 POCKET DOOR 416
5.16, 6.16, 7.16 SIM.



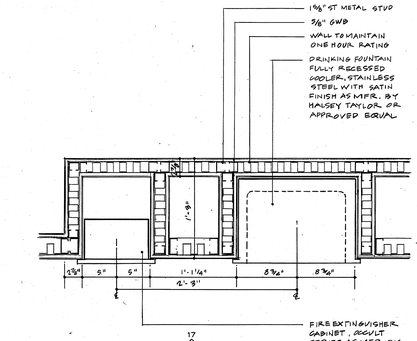
9 STAIR NO.3. VESTIBULE FIRE CABINET



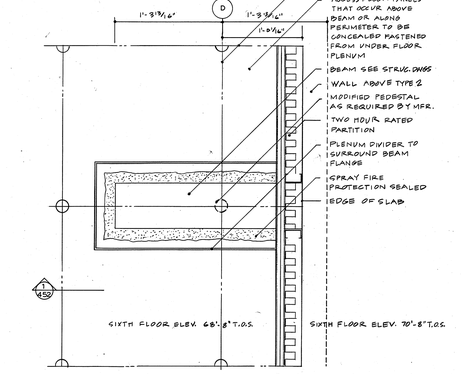
8 TYPICAL FIREHOSE & VALVE CABINET AT CORE



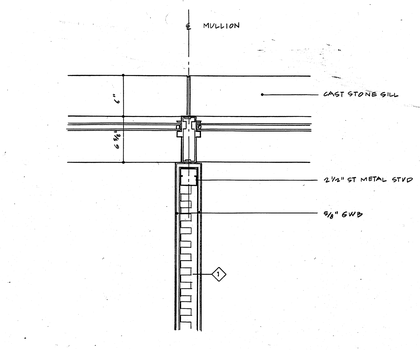
7 TYPICAL ELECTRICAL CABINET 4.15



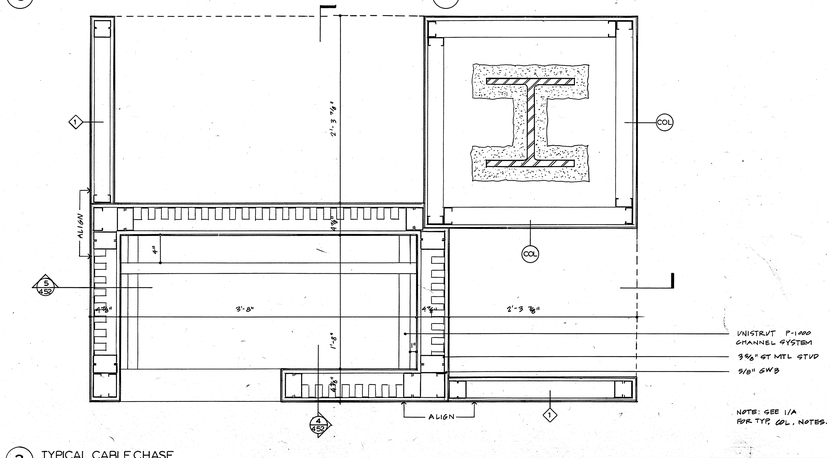
6 TYPICAL FIRE EXTINGUISHER CAB & DRINKING FOUNTAIN 415



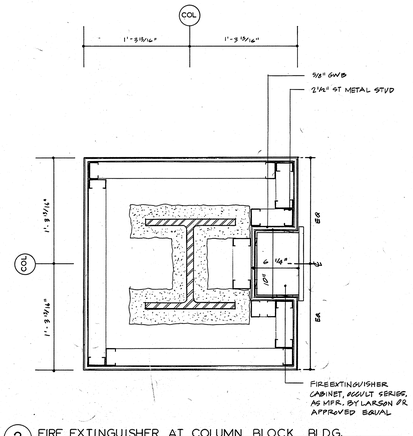
5 ACCESS FLOOR AT EDGE OF SLAB
SIXTH & SEVENTH FLOORS SIM



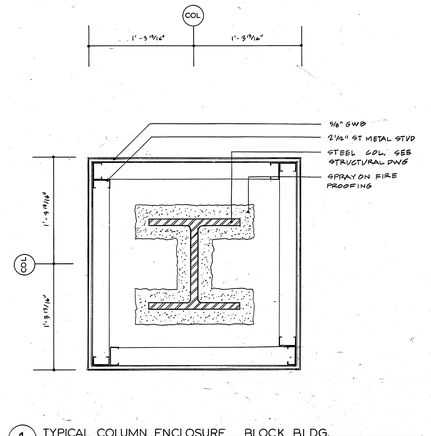
4 TYPICAL PARTITION AT MULLION SPINE BLDG



3 TYPICAL CABLE CHASE



2 FIRE EXTINGUISHER AT COLUMN BLOCK BLDG.



1 TYPICAL COLUMN ENCLOSURE BLOCK BLDG.

2051 -0-0056-1988-089-062 Cornell University

089-12

3 1924 118 515 109

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Mechanical Engineers
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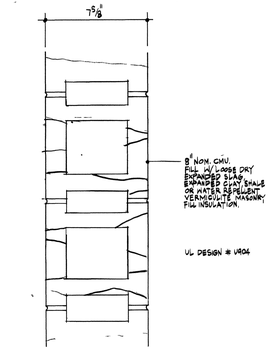
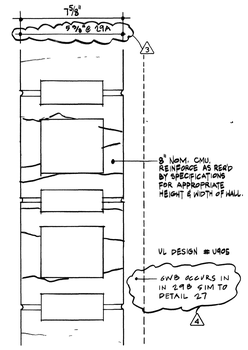
INTERIOR PLAN DETAILS

Scale 1 1/2"= 1'-0" Drawn DMB
Date — Checked PBB

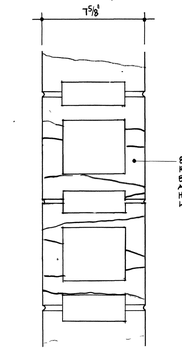
A-451



30 CMU. / CMU.
3 HOUR UL # U904



29 CMU / CMU
2 HOUR 29A SIM AS NOTED
29B SIM AS NOTED
UL# U905



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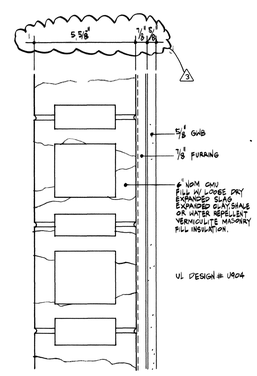
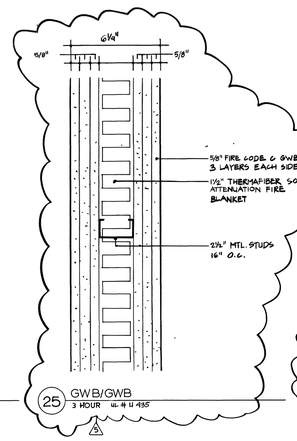
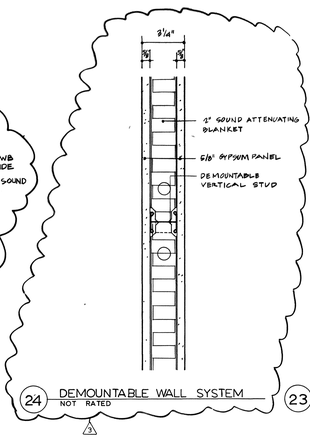


27 CMU. / G.W.B.
3 HOUR UL # U904

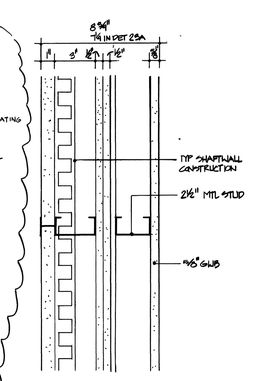
26 NOT USED



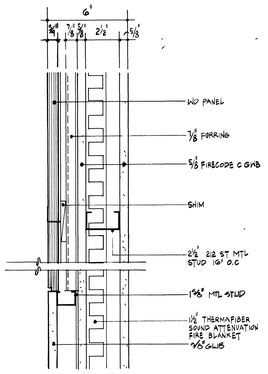
25 GWB/GWB
3 HOUR UL # U495



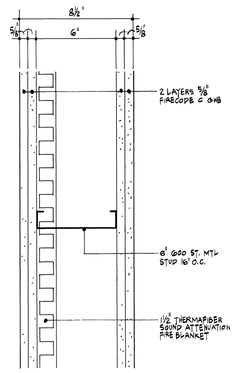
24 DEMOUNTABLE WALL SYSTEM
NOT RATED



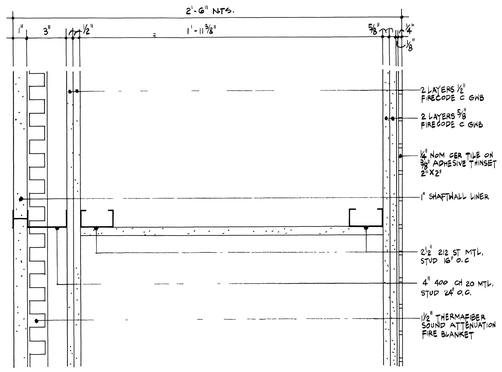
23 GWB. / GWB. - SHFTWL
2 HOUR 23A SIM AS NOTED UL # U498



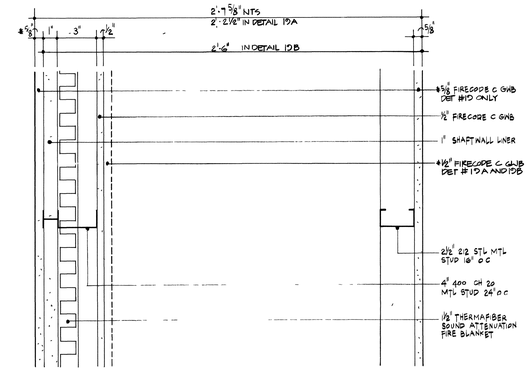
22 WD. PNL. / G.W.B.
1 HOUR C E G 8-9-84



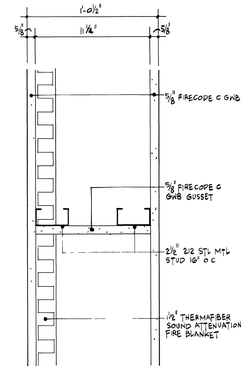
21 GWB. / G.W.B.
2 HOUR UL # U411 (6A-WP1548)



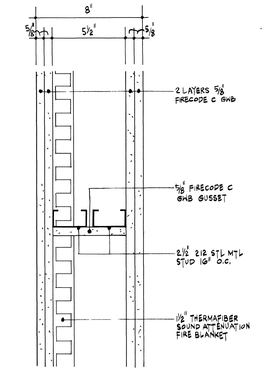
20 GWB / WRGWB. - SHFTWL
2 HOUR UL # U438 (449 FOR TILE)



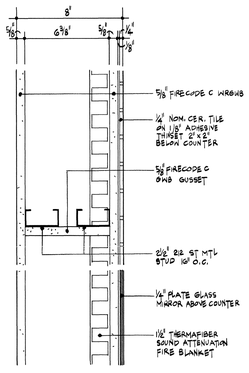
19 G.W.B. / G.W.B. - SHFTWL.
2 HOUR 19A,19B SIM AS NOTED UL # U467 (438)



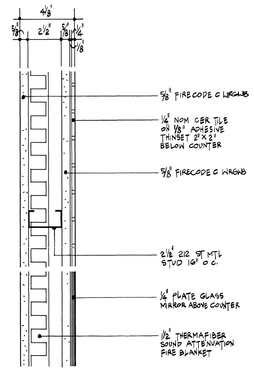
18 GWB. / G.W.B.
1 HOUR UL # U420



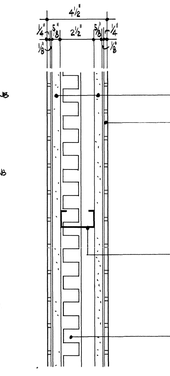
17 GWB. / WRGWB.
2 HOUR UL # U420



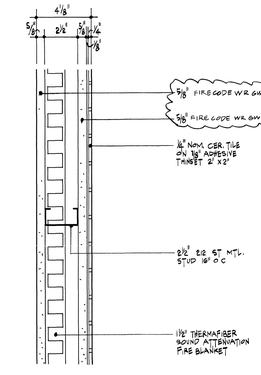
16 WRGWB. / WRGWB. - CER. TILE-MIRROR
1 HOUR UL # U419



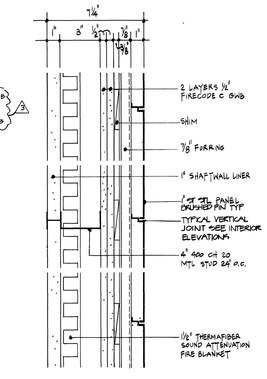
15 WRGWB / GWB. - CER. TILE - MIRROR
1 HOUR UL # U 442



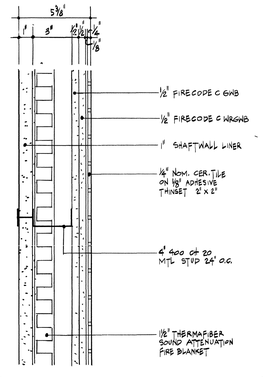
14 WRGWB. / WRGWB. - CER. TILE
NON RATED



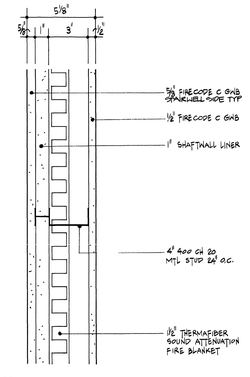
13 GWB. / WRGWB. - CER. TILE
1 HOUR UL # 442



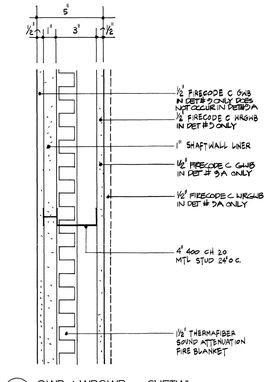
12 ST STL. PANEL - SHFTWL.
2 HOUR UL # U438 (SIM)



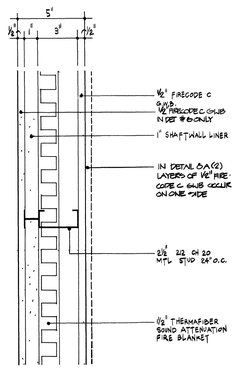
11 GWB. / CER. TILE - SHFTWL.
2 HOUR UL # 498 (442 FOR TILE



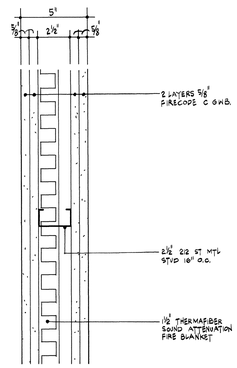
10 GWB. / GWB. - SHFTWL.
2 HOUR UL # U467



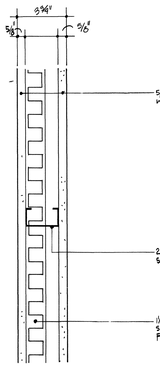
9 GWB. / WRGWB. - SHFTWL.
2 HOUR 9A SIM AS NOTED UL # U467 (438)



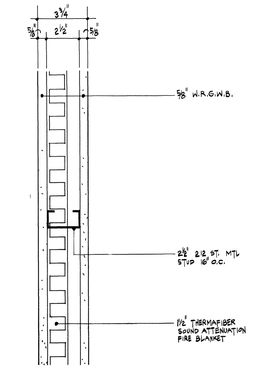
8 G.W.B. / G.W.B. - SHFTWL.
2 HOUR 8A SIM. AS NOTED UL # U467 (438)



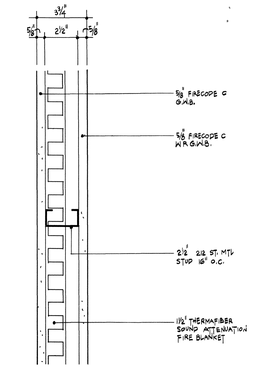
7 G.W.B. / G.W.B.
2 HOUR UL # U412



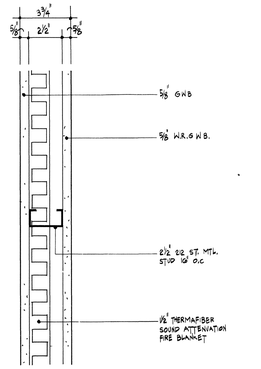
6 WRGWB. / WRGWB.
1 HOUR C E G 8-11-83



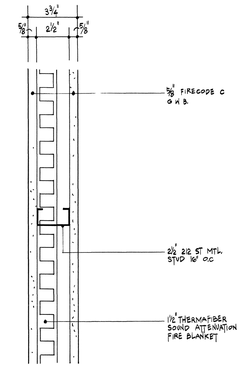
5 W.R.G.W.B. / W.R.G.W.B.
NON RATED



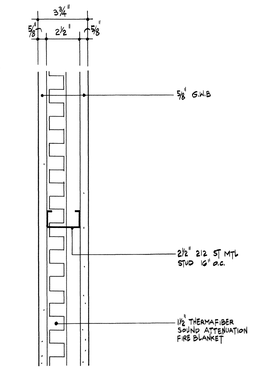
4 G.W.B. / W.R.G.W.B.
1 HOUR C E G 8-11-83



3 G.W.B. / W.R.G.W.B.
NON RATED



2 G.W.B. / G.W.B.
1 HOUR C E G 8-9-84



1 G.W.B. / G.W.B.
NON RATED

2051 -0-0066-1988-089-072 Cornell University

689-72

A REVISED AS INDICATED FOR COORDINATION OF ENGINEERING FIT OUT 6/30/89
A REVISED AS INDICATED 5/4/89
A REVISED AS INDICATED 2/17/89

The Cornell University College of Engineering

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Structural Engineers
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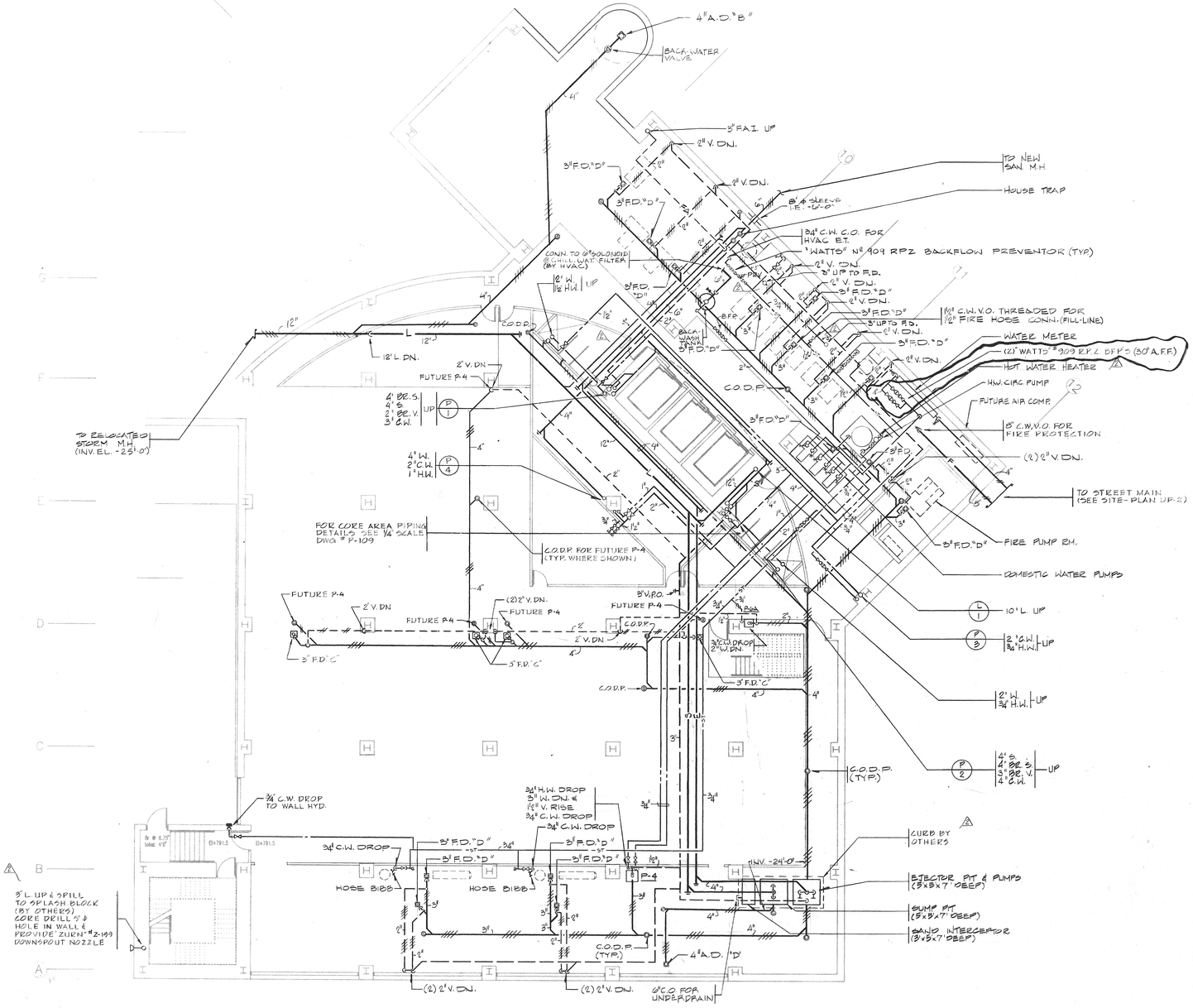
345 Park Ave , New York, N Y 10022
Mechanical Engineers
212-758-9000

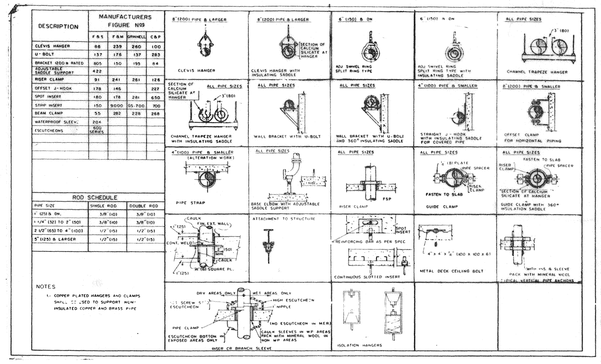
WALL TYPES

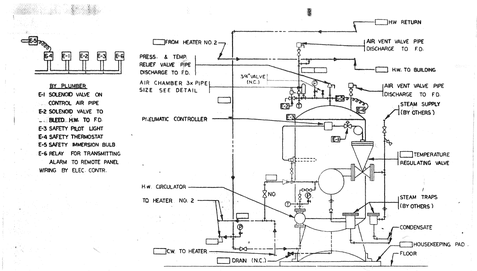
Scale 3" = 1'-0" Drawn MMF
Date 11/15/88 Checked PBB

A-551

NO.	DATE	ISSUE
1	9-1-88	ISSUED FOR BID
⚠	10-13-88	ADDENDUM NO. 1
⚠	11-29-89	REVISED AS CIRCLED







COMPACT HEATER DETAIL

1/8"
2051 -3-C005-1988-089-130 Cornell University
1/10"

089-130

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Mechanical Engineers
212 758 3600

BASEMENT

Scale 1/8" = 1'-0"
Drawn
Date 9-1-88
Checked

P-100

3 1924 119 8759 464

NO.	DATE	ISSUE
1	9-1-88	ISSUED FOR BID
2	12-13-88	ADDENDUM Nº 1
3	4-9-90	REVISED AS CHECKED AS PER C.U.'S DIRECTION

PROJECTION SPRINKLER SYSTEM

A. Provide projection sprinkler system for the Elevator Machine Room, including control panel, emergency standby batteries, notifying detection devices, alarms, conduit and wires, projection sprinkler valves and trim, air compressor panel, and piping, complete and ready for operation, all as shown on the drawings and as hereinafter specified.

1. The system shall provide audible and visual annunciation at its central panel upon detection of a fire condition, visually identifying the space associated with each of its individual detection devices. The system shall be electrically supervised against wiring derangement of all circuitry involved by zone to the sensing of fire, and the response signal of alarm. The occurrence of a wiring derangement shall cause an audible and visual trouble indication to occur at the central panel.

2. The entire projection system shall be furnished and installed under the responsibility of one Contractor.

3. All devices, combinations of devices and equipment constructed and installed in conformity with this Specification shall be approved by the applicable insurance agency for the purposes for which they are installed and by all authorities having jurisdiction.

4. Any equipment proposed as equal to that herein specified must be given prior approval by the Engineer and the Architect the manufacturer's name and model numbers of substitute equipment and material, together with three (3) copies of engineering data sheets, and a list of twenty (20) installations of similar equipment which have been satisfactorily installed and in continuous operation on user's premises over a period of three (3) years.

B. Heat Detection System:

1. System Components:

a. Detection Devices:

1) Detectors shall be Fenwal Model 05-12-004. The thermal detectors shall be a rate compensated type which shall have the inherent ability to operate at or within specified tolerance of the factory set alarm point, regardless of the rate of rise. It shall not be affected by slow or rapid temperature changes or fluctuations occurring below the device's temperature setting. The detectors shall be a compact, stainless steel shell, hermetically sealed construction, with screw terminals. The detectors shall have temperature rating of 190°F. The detectors shall mount on an octagonal electrical junction box and either surface or flush mounting may be accomplished by the use of either a flush or surface mount adaptor supplied by the manufacturer. The detectors shall be UL listed and FM approved.

b. Control Panel:

1) All components of the central control panel shall be prewired to terminal strips, and shall be securely fastened to steel channel racks. The panel shall be housed in a cabinet, finished in scratch-resistant, baked red enamel. The panel shall be complete with a continuous 1/4 barrel hinge, and provided with an Eagle 902 lock and keys. Separate illuminated signal indications shall be provided for each detector circuit, and in addition to one indication per zone. Plastic nameplates, engraved and filled, shall be provided for each indication, and shall be securely fastened to the panel with machine screws. Power shall be 120 volts a.c. through a 20A circuit breaker. Provision shall be made for operation from a self-contained, 24 volts d.c. emergency power supply. The units shall have built-in rechargeable standby batteries of sufficient capacity to provide for a minimum of four hours of continuous control panel operation, followed by a one minute alarm capability for five full minutes at the end of four hour period. All battery recharging and power leads shall be designed for ease of installation with no special tools required. Provide for a local alarm bell which shall operate on "fire" or "battery" condition. It shall be constructed to permit maintenance by qualified electricians without special tools or training. The central control panel shall contain the following individual units of control equipment:

2) The power supply unit for the detection system shall be capable of providing power for the following functions for the system:

a) Furnish necessary d.c. power for operation of detectors.

b) Provide control of fire alarm and trouble alarm signals.

c) Activate preaction sprinkler valves.

3) The unit shall perform the following functions:

a) Provide visual indication of the zone in which the alarm initiating detector is located.

b) Provide visual indication of the zone in which a trouble signal is initiated.

c) Provide supplementary nonpowered control circuits which shall be activated independently for each zone.

2. Power Supply: The power supply to the system will be provided under another Section.

3. System Operations:

a. The system shall function as follows when any single detector operates within the protected area.

1) Light proper zone indication and fire indication on central control panel.

2) Initiate signal to building fire alarm system. (Coordinate contact closure requirements.)

3) Initiate circuits to deactivate electrical circuits to air compressor and open electric circuit breakers in electrical distribution panels.

4) Actuate preaction sprinkler valve.

b. Common trouble alarm shall initiate signal to building system.

4. Wiring: The wiring arrangement for the system shall be as shown on the drawings. Each wire shall be a single No. 14 AWG minimum conductor (heat detectors, No. 16 AWG minimum) with 3/64 inch type THWN insulation. All wiring for the automatic fire detection system shall be run in 3/4" rigid threaded galvanized conduit except where otherwise by the Code, and shall generally be run concealed in finished spaces, and exposed in unfinished spaces. Conduit containing wires, identified as fire and detection system wires, will not be permitted to contain any other wires. Conduit shall enter only at the side or the bottom of cabinets.

5. Installation:

a. The system shall be installed in a workmanlike manner, and in accordance with Specifications and standards approved by all authorities having jurisdiction.

b. The system shall be provided complete with all outlet boxes, junction boxes, cabinets, etc., regardless of whether or not such items are furnished as integral parts of the equipment.

C. Preaction sprinkler components shall be as manufactured by Reliable Automatic Sprinkler Co. and shall include the major items listed herein:

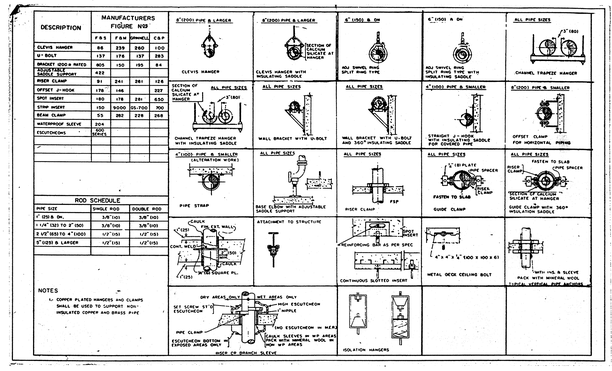
1. Water Control Valve: Model 8 deluge valve, complete with basic trim and wet pilot line trim sets.

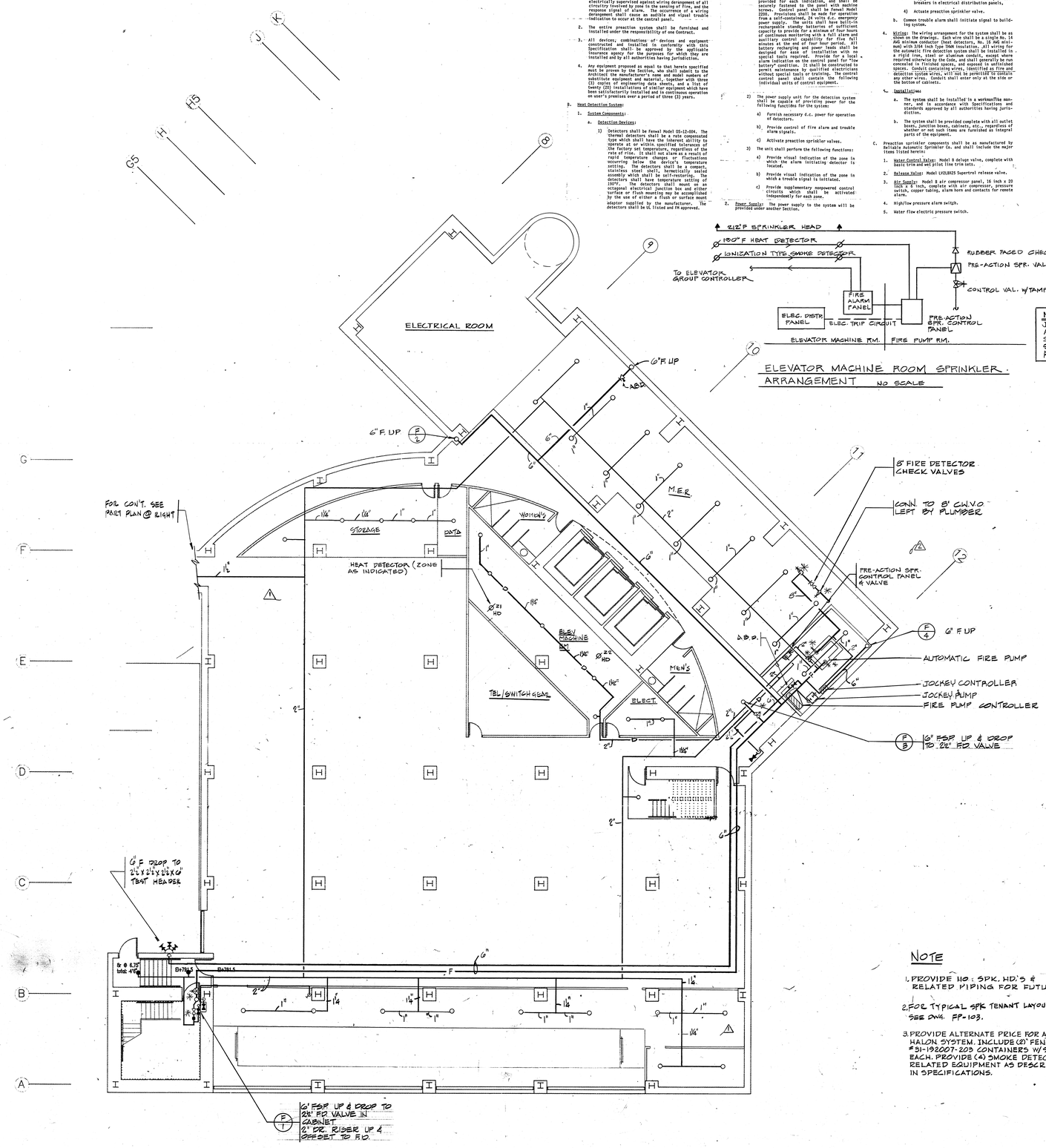
2. Release Valve: Model LV2LB825 Supertrol release valve.

3. Air Supply: Model 5 air compressor panel, 16 inch x 20 inch x 6 inch, complete with air compressor, pressure switch, copper tubing, alarm horn and contacts for remote alarms.

4. High/low pressure alarm switch.

5. Water flow electric pressure switch.



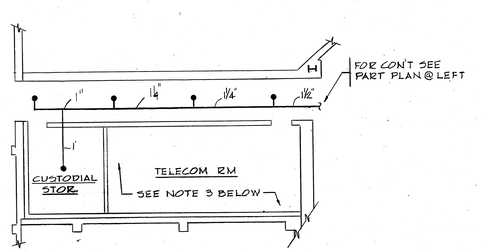


NOTE

1. PROVIDE 110 : SPK. HD.'S & RELATED PIPING FOR FUTURE.
2. FOR TYPICAL SPR TENANT LAYOUT SEE DWG. FP-103.
3. PROVIDE ALTERNATE PRICE FOR A TELECOM. HALON SYSTEM. INCLUDE (2) FENWALL #31-192007-203 CONTAINERS W/90# HALON EACH. PROVIDE (4) SMOKE DETECTORS AND RELATED EQUIPMENT AS DESCRIBED IN SPECIFICATIONS.

NOTE

J.B.&B. RECOMMENDATION TO INSTALL A PRE-ACTION SYSTEM FOR THE ELEVATOR MACHINE RM. SUBMIT AN ALTERNATE PRICE TO INSTALL A WET SPRINKLER SYSTEM FOR THE ELEVATOR MACHINE RM. UNDER CORNELL'S DIRECTION.



TUNNEL PART PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTE

✳ DENOTES TAMPER SWITCH

1/8"
2051 -3-C023-1988-089-148
1/16"
3 1924 119 922 346

089-148

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212/758-9000

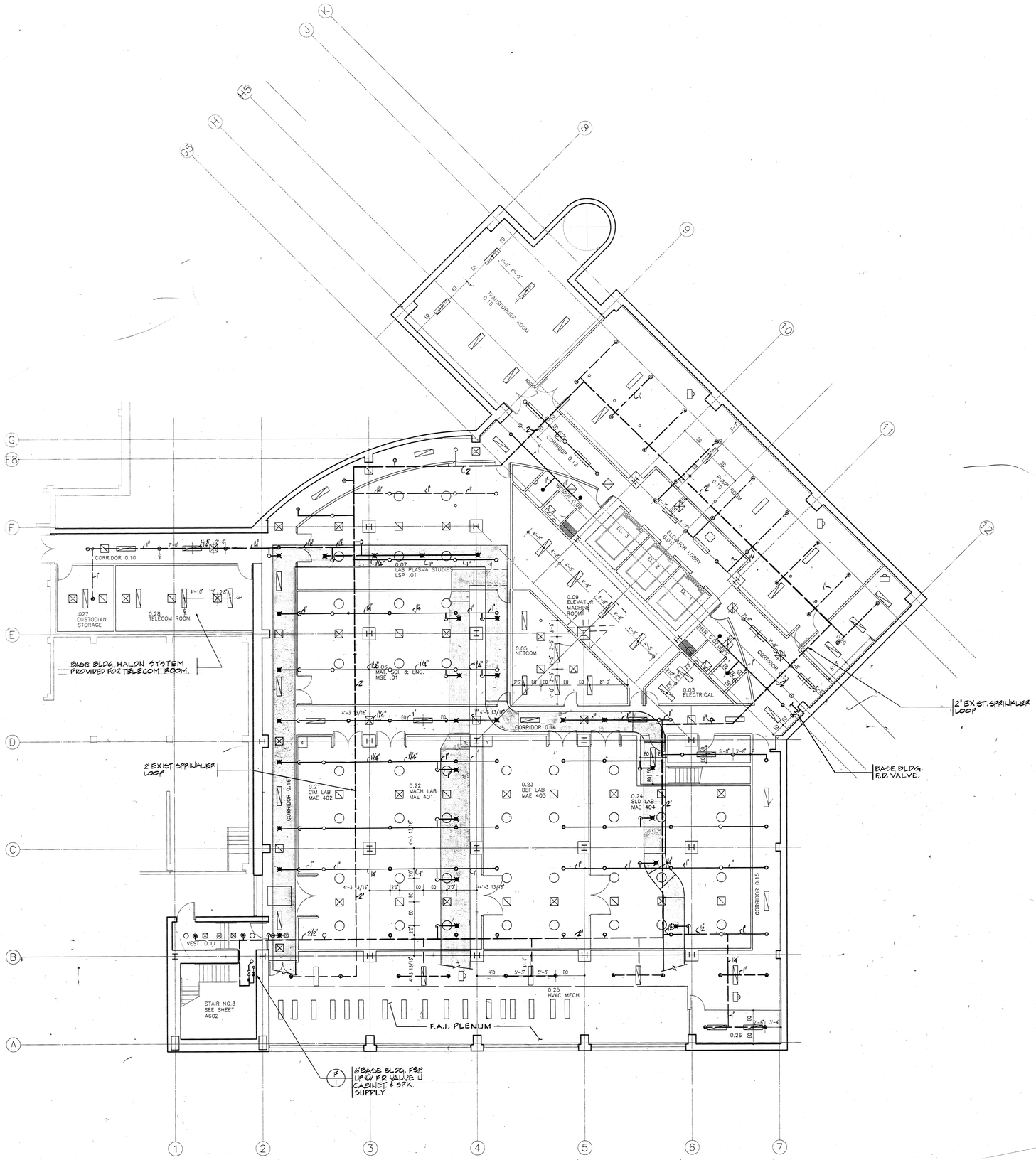
BASEMENT

Scale 1/8"=1'-0" Drawn

Date 9-1-88 Checked

FP-100

NO.	DATE	ISSUE
1	7-19-89	ISSUED FOR BID



NOTES:

1. FOR SPRINKLER WORK AND MATERIALS REFER TO BASE BLDG. SPECIFICATION.
2. FOR HYDRAULIC CALCULATIONS REFER TO BASE BLDG. CONTRACT DOCUMENTS.

1/8"

2051 -3-C033-1988-089-158 Cornell University

1/10"

089 158

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BASEMENT
REFLECTED CLG. PLAN

Scale 1/8"=1'-0" Drawn DMB

Date Checked PBB

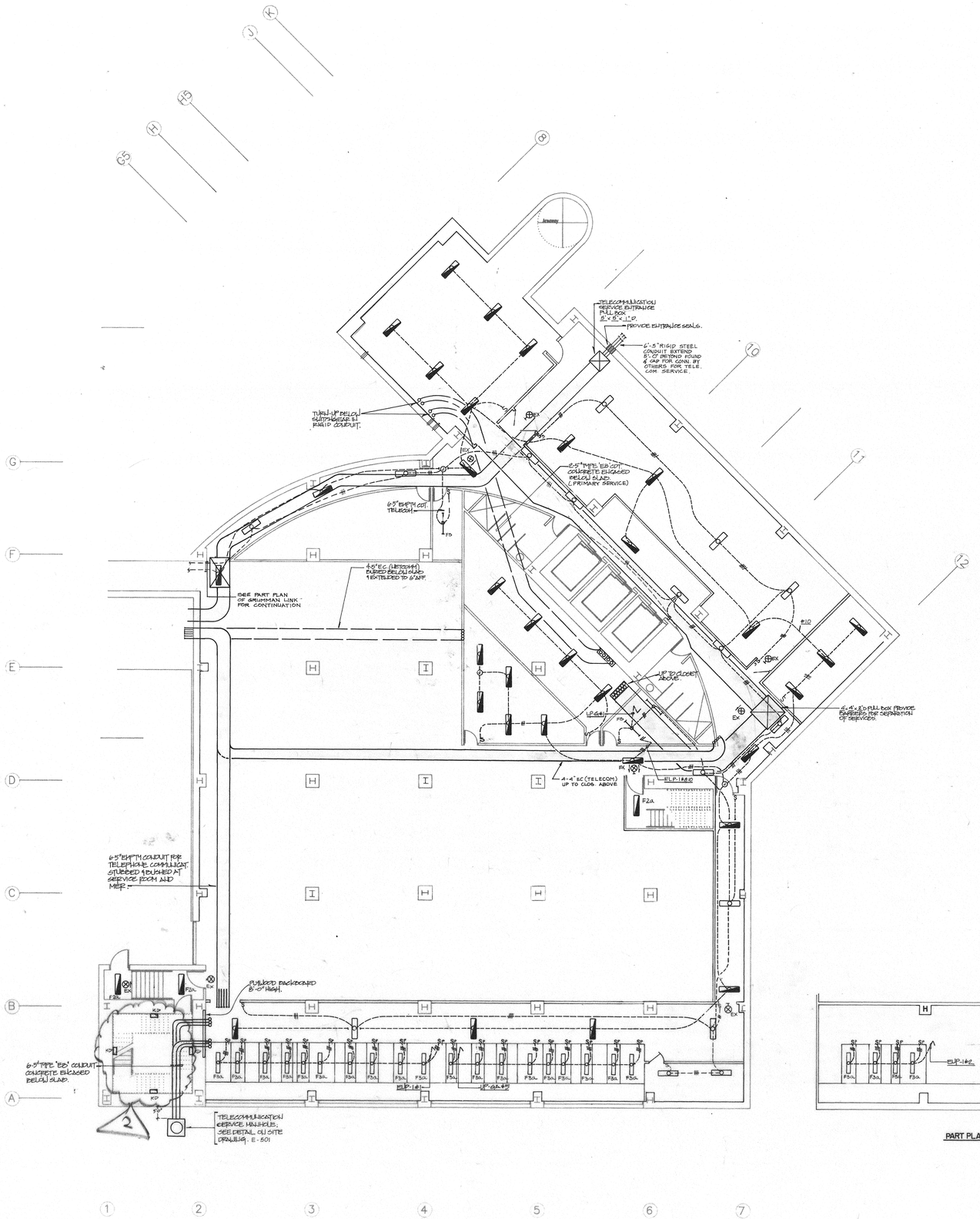
FP-100T

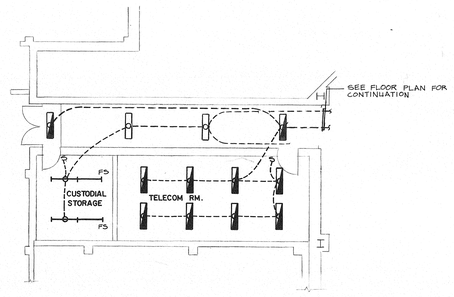
3 1924 117 540 080

NO.	DATE	ISSUE
1	9-1-88	ISSUED FOR BID
1	10 11 88	ADDENDUM # 1
2	11-14-88	ADDENDUM # 2

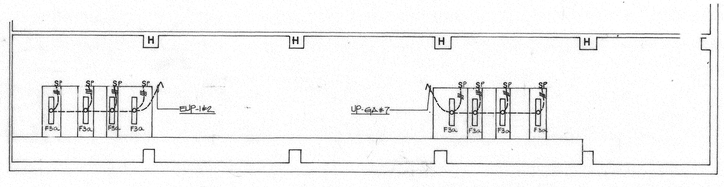
NOTES

1. SEE DRAWING E-1 FOR SYMBOL LIST, GENERAL NOTES, AND LIGHT FIXTURES SCHEDULES.
2. SEE DRAWING E-302 FOR PANEL SCHEDULES.
3. ALL LIGHT FIXTURES SHALL BE TYPE 'FK' UNLESS OTHERWISE NOTED.





PART PLAN OF GRUMMAN LINK



PART PLAN OF MECHANICAL MEZZANINE LIGHTING.

2051 -4-0002-1989-089-256 Cornell University

089-256

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Structural Engineers
212 986-5700

Jaros, Baum & Bolles
545 Park ave New York, N. Y. 10022
Mechanical Engineers
212 758-9100

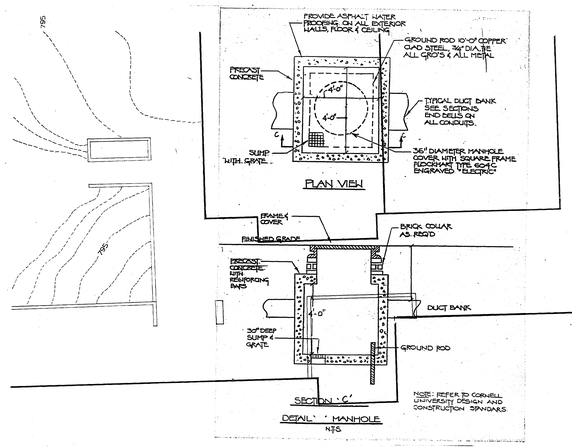
GROUND FLOOR LIGHTING PLAN

Scale 1/8" = 1'-0" Drawn M.C.
Date 9-1-88 Checked S.G.L.

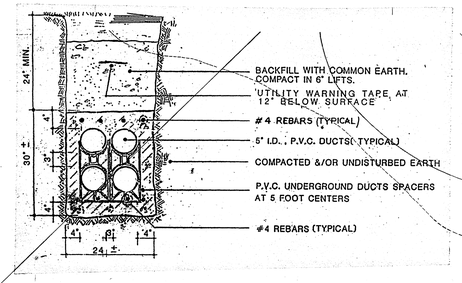
E-100L

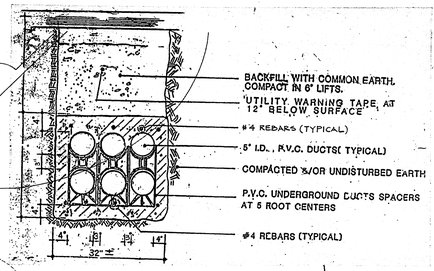
3 1924 119 879 603

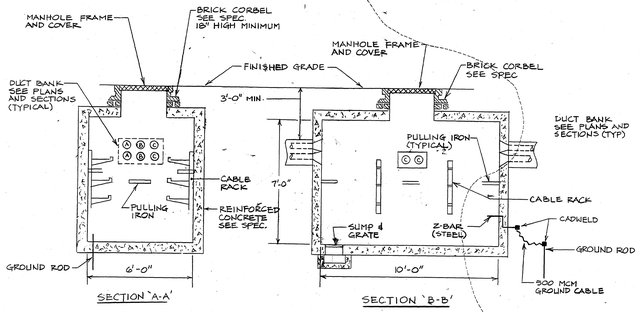
NO.	DATE	ISSUE
1	9-1-88	ISSUED FOR BID
2	10-11-88	ADDENDUM

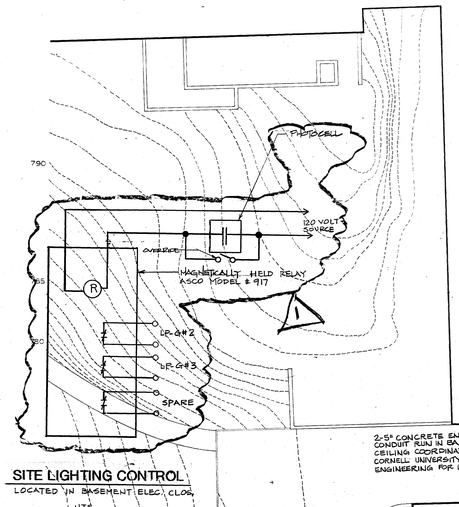


DETAIL OF TELEPHONE MANHOLE



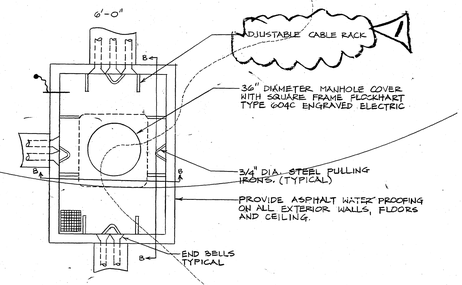




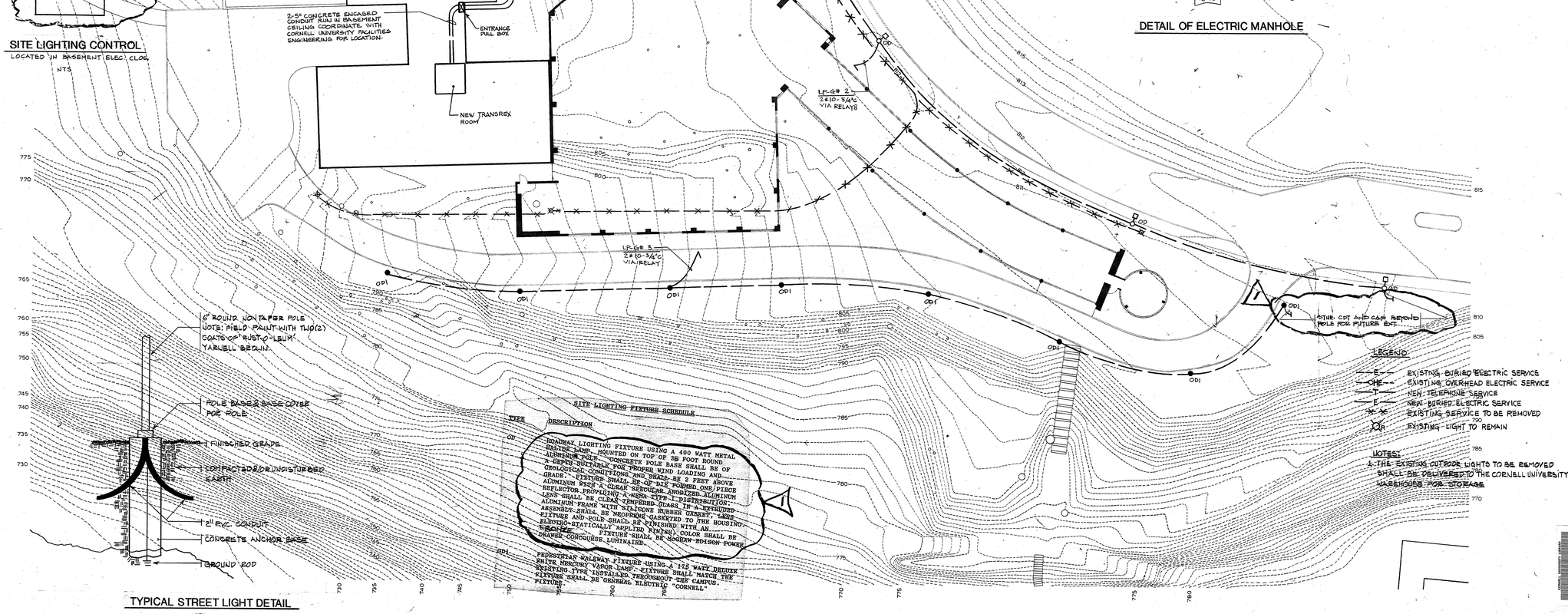


SITE LIGHTING CONTROL

LOCATED IN BASEMENT ELEC. CLOS.
NTS



DETAIL OF ELECTRIC MANHOLE



TYPICAL STREET LIGHT DETAIL

NTS

SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION
OD1	ROADWAY LIGHTING FIXTURE USING A 400 WATT METAL HALIDE LAMP, MOUNTED ON TOP OF 35 FOOT ROUND ALUMINUM POLE. CONCRETE POLE BASE SHALL BE OF A DEPTH SUITABLE FOR PROPER WIND LOADING AND GEOLOGICAL CONDITIONS AND SHALL BE 2 FEET ABOVE GRADE. FIXTURE SHALL BE OF DIE FORMED ONE PIECE ALUMINUM WITH A CLEAR SEMI-SPECULAR ANODIZED ALUMINUM REFLECTOR PROVIDING A MCNA TYPE I DISTRIBUTION. LENS SHALL BE CLEAR TEMPERED GLASS IN A EXTRUDED ALUMINUM FRAME WITH SILICONE RUBBER GASKET. LENS SHALL BE PERMANENTLY ATTACHED TO THE HOUSING BY HINGED, STATICALLY APPLIED, STAINLESS STEEL CLAMPS. FIXTURE SHALL BE NOGRAY-EDISON POWER GROVER CONCOURSE LUMINAIRE.
PW	PEDESTRIAN WALKWAY FIXTURE USING A 175 WATT DELUXE WHITE MERCURY VAPOR LAMP. FIXTURE SHALL MATCH THE EXISTING TYPE INSTALLED THROUGHOUT THE CAMPUS. FIXTURE SHALL BE GENERAL ELECTRIC "CORNELL" FIXTURE.

1/8" 2051 -4-0030-1985-089-284 Cornell University 1/10"

089-284

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SITE PLAN

Scale 1" = 20'-0" Drawn

Date 9-1-88 Checked SCK

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