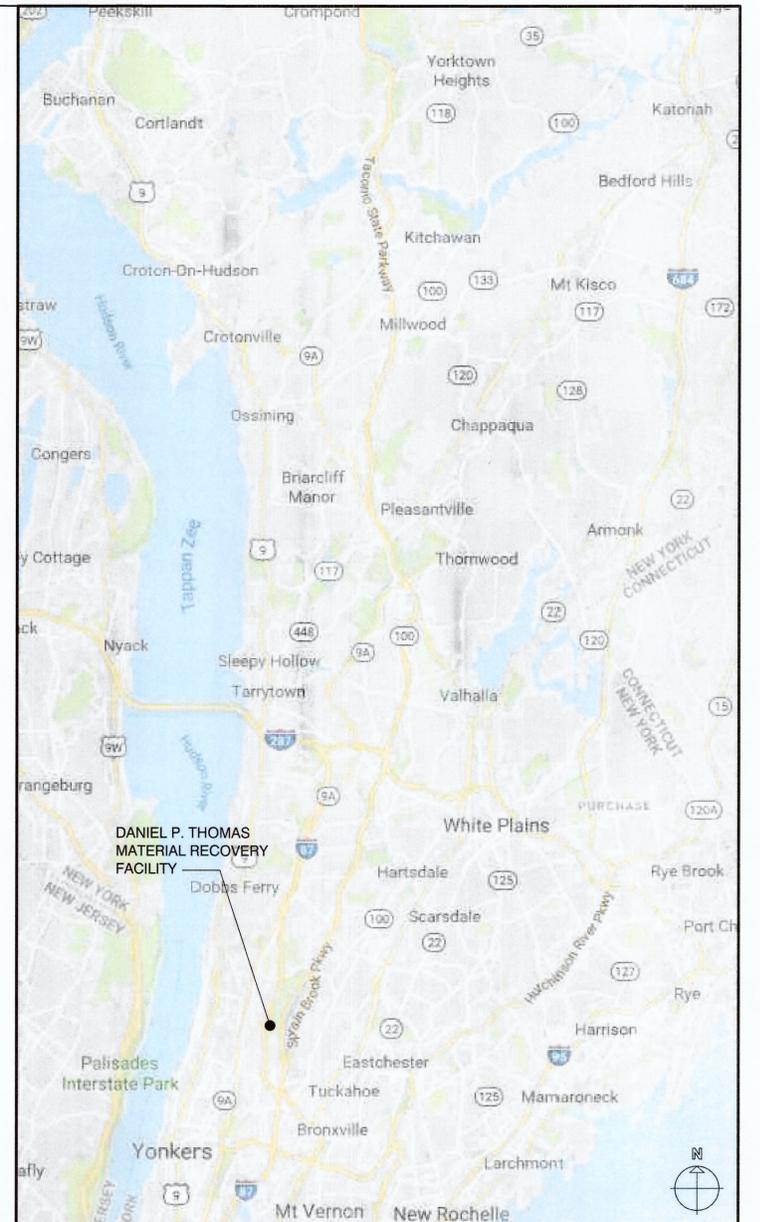


Westchester County

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT No. 23-519 ROOF, HVAC AND ELECTRICAL UPGRADES DANIEL P. THOMAS MATERIAL RECOVERY FACILITY YONKERS, NEW YORK



WESTCHESTER COUNTY

GENERAL NOTES

- THE DRAWINGS AND PROJECT MANUAL ARE COMPLEMENTARY. THE PROJECT MANUAL, SEPARATELY BOUND, CONTAINS THE CONDITIONS OF THE CONTRACT, PROCEDURES AND TECHNICAL SPECIFICATION.
- CONTRACTOR IS TO VISIT THE SITE AND BECOME FAMILIAR WITH THE CONDITION OF THE SITE AND DIFFICULTIES ATTENDING THE WORK.
- DO NOT SCALE MEASURES ANY DRAWING. VERIFY THE FIGURES, DIMENSIONS AND DESIGN INTENTION SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE WORK.
- REPORT ANY ERRORS, INACCURACIES, MISSING DIMENSIONAL REQUIREMENTS OR CONFLICTS TO THE ARCHITECT IN WRITING BEFORE BEGINNING ANY WORK.
- VERIFY EXACT LAYOUT COMPATIBILITY WITH ALL EXISTING CONDITIONS BEFORE BEGINNING WORK. NOTIFY THE ARCHITECT IN WRITING BEFORE BEGINNING WORK IF ANY DISCREPANCIES ARE FOUND.
- DISTURB ONLY THOSE AREAS OF THE FACILITY AFFECTED BY DEMOLITION, UNLESS NOTED OTHERWISE. PROTECT ALL OTHER AREAS.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS, AGENCIES HAVING JURISDICTION, AND STATUTES AS REQUIRED.
- VERIFY ALL CHANGES TO THE WORK IN WRITING WITH THE ARCHITECT AND OWNER BEFORE BEGINNING RELATED WORK.
- REVIEW ALL DRAWINGS CONTAINED IN THIS SET, SO AS TO BECOME FAMILIAR WITH THE WORK REQUIRED UNDER THE CONTRACT.
- VERIFY AND ADJUST APPROXIMATE DIMENSIONS (+/-) IN THE FIELD. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
- PROTECT ALL ADJACENT EXISTING CONSTRUCTION. PATCH, REPAIR AND/OR REPLACE, AND REFINISH AS REQUIRED TO RESTORE AREAS DAMAGED DURING DEMOLITION, AND CONSTRUCTION.
- THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL EQUIPMENT AND FURNISHINGS AS THE WORK PROGRESSES SO LONG AS THERE IS NOT A CONFLICT WITH THE CONTRACTOR.
- MAINTAIN AT THE SITE ONE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS AND APPROVED SHOP DRAWINGS AND APPROVED SAMPLES MARKED CURRENTLY TO RECORD ALL CHANGES DURING CONSTRUCTION.
- ANY CHANGES TO THE SCOPE OF WORK OR IN THE CONSTRUCTION DETAILS, WHETHER DUE TO FIELD CONDITIONS, MANUFACTURER REQUIREMENT OR OTHER SHALL BE DOCUMENTED BY THE ARCHITECT PRIOR TO EXECUTION. ANY INCREASE OR DECREASE IN THE CONTRACT PRICE MUST BE APPROVED IN WRITING PRIOR TO EXECUTION.
- GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
 - CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
 - FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES. CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY COUNTY STAFF SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING/SITE. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST AND CONTAMINANTS.
- SUBMIT A DETAILED CONSTRUCTION SCHEDULE PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES AND OTHER CONTAMINANTS PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.
- THE PROJECT SITE IS AN ACTIVE SOLID WASTE TRANSFER FACILITY. THE OWNER'S OPERATIONS MUST NOT BE INTERRUPTED DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
- CONSTRUCTION TRAILERS, DUMPSTERS, MATERIAL STORAGE AREAS AND CONSTRUCTION EQUIPMENT SHALL BE LOCATED ONLY IN AREAS APPROVED AND AUTHORIZED BY THE OWNER. THESE AREAS SHALL BE ORIENTED TO UTILIZE A MINIMUM OF SPACE AND SHALL BE CONFIRMED BY THE CONTRACTOR WITH THE OWNER BEFORE MOBILIZATION AT A PRE-CONSTRUCTION MEETING.
- WHEN SETTING UP STAGING AND WORK AREAS, CONTRACTORS MUST TAKE CARE NOT TO DISRUPT ANY ENTRANCES, WALKWAYS, DRIVEWAYS OR ANY FEATURES WHICH MAY BE IN USE DURING THE DURATION OF THE PROJECT. RESTORE EACH AREA UPON COMPLETION OF THE WORK IN THAT AREA.
- AT THE END OF EACH WORK DAY, CONTRACTOR(S) SHALL REMOVE ALL DEBRIS FROM THE WORK AREA AND PLACE IN THE DUMPSTERS PROVIDED BY THE CONTRACTOR. CONTRACTOR(S) IS RESPONSIBLE TO LEGALLY DISPOSE OF CONSTRUCTION WASTE OFF-SITE. METAL SCRAP MATERIALS AND DEBRIS (INCLUDING BUT NOT LIMITED TO ROOFING NAILS & ATTACHMENTS, FLASHINGS, METAL PARAPET PANELS & COPINGS, SHEET METAL CAPPING, HVAC EQUIPMENT, DUCTWORK, CONDUIT, LADDERS, ETC.) SHALL BE SEPARATED FROM GENERAL WASTE AND DISPOSED OF IN SEPARATE CONTAINERS PROVIDED BY THE OWNER. REMOVED METAL MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER.
- ALL EXITS MUST BE KEPT CLEAR OF CONSTRUCTION OPERATION AND DEBRIS AT ALL TIMES.
- PERFORM ALL WORK AND COORDINATE ALL ASPECTS OF CONSTRUCTION TO KEEP THE CONSTRUCTION DURATION AND DISTURBANCE OF FACILITY TO A MINIMUM.
- DOCUMENT, THROUGH DIGITAL PHOTOGRAPHS, THE CONDITION OF THE SITE, BUILDING AND SURROUNDING CONDITIONS PRIOR TO DEMOLITION. NOTIFY ARCHITECT OF ANY DAMAGED AREAS PRIOR TO MOBILIZATION. OVER DEMOLITION SHALL BE ALLOWED PROVIDED THAT ALL SURFACES SHALL BE REBUILT TO MATCH MATERIALS, STRUCTURAL INTEGRITY AND APPEARANCE OF THOSE WHICH WERE REMOVED AND IN CONFORMANCE WITH CONTRACT DOCUMENTS AND AT NO ADDITIONAL COST TO THE OWNER. IF AT THE END OF THE PROJECT THERE ARE DAMAGES TO THE SITE, BUILDING OR SURROUNDING CONDITIONS, THE CONTRACTOR IS RESPONSIBLE TO RESTORE AS BUILT CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- MAINTAIN WATER-TIGHT WEATHER PROTECTION THROUGHOUT ALL WORK AREAS AND EXISTING AREAS IMMEDIATELY ADJACENT TO THOSE WORK AREAS FOR THE ENTIRE DURATION OF THE PROJECT. AS SUCH, THE CONTRACTOR MAY ONLY REMOVE WHAT CAN BE REINSTALLED ON ANY WORK DAY TO MAINTAIN A WATER-TIGHT ENCLOSURE. COORDINATE ALL DEMOLITION AND CONSTRUCTION OPERATIONS WITH THE COUNTY, FACILITY STAFF AND ANY OTHER CONTRACTS WORKING ON SITE.
- CONTRACTOR PARKING AREAS SHALL BE LOCATED ONLY IN AREAS APPROVED AND AUTHORIZED BY THE OWNER.

DRAWING NO.

T1.0
INF1.0
ASB1.0
AD1.0
AD1.1
AD1.2
A2.0
A2.1
A2.2
A3.0
A3.1
S001
S100
S101
S102
S103
S500
M002
MD120
MD130
MD131
MD132
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M500
M600
E001
ED110
ED111
ED120
ED130
ED131
ED132
E110
E120
E130
E131
E132
E200
E201

SHEET TITLE

COVER SHEET & GENERAL NOTES
GENERAL NOTES, LEGENDS AND LOCATION PLANS
ASBESTOS ABATEMENT PLAN, NOTES AND LEGEND
PARTIAL DEMOLITION ROOF PLAN - PAPER HOUSE & SHIPPING HOUSE
PARTIAL DEMOLITION ROOF PLAN - MATERIALS RECOVERY FACILITY
PARTIAL DEMOLITION ROOF PLAN - TRANSFER STATION
PARTIAL CONSTRUCTION ROOF PLAN - PAPER HOUSE & SHIPPING HOUSE
PARTIAL CONSTRUCTION ROOF PLAN - MATERIALS RECOVERY FACILITY
PARTIAL CONSTRUCTION ROOF PLAN - TRANSFER STATION
ROOF DETAILS
ROOF DETAILS
GENERAL NOTES
ROOF FRAMING PLAN (SHIPPING HOUSE/PAPER HOUSE)
ROOF FRAMING PLAN (MATERIALS RECOVERY FACILITY/TIPPING FLOOR)
ROOF FRAMING PLAN (TRANSFER STATION)
STRUCTURAL DAMAGE LOCATIONS
REPAIR DETAILS
HVAC GENERAL NOTES AND LEGENDS
DEMOLITION SECOND FLOOR PLAN
DEMOLITION ROOF PAPER/SHIPPING HOUSE
DEMOLITION ROOF TRANSFER STATION
DEMOLITION ROOF TIPPING FLOOR
FIRST FLOOR PLAN
LOWER FLOOR MISTING SYSTEM TRANSFER STATION AND PAPER/SHIPPING HOUSE PLAN
LOWER FLOOR MISTING SYSTEM TIPPING FLOOR PLAN
FIRST FLOOR MISTING SYSTEM TRANSFER STATION AND PAPER/SHIPPING HOUSE PLAN
FIRST FLOOR MISTING SYSTEM TIPPING FLOOR PLAN
SMALL SORTING ROOM FLOOR PLAN
SECOND FLOOR PLAN
ROOF PAPER/SHIPPING HOUSE
ROOF TRANSFER STATION
ROOF TIPPING FLOOR
HVAC DETAILS
HVAC SCHEDULES
ELECTRICAL LEGENDS, FIRE ALARM RISER DIAGRAM, DETAILS, NOTES AND SCHEDULE
ELECTRICAL TIPPING FLOOR FIRST FLOOR DEMOLITION PLAN
ELECTRICAL TRANSFER STATION FIRST FLOOR DEMOLITION PLAN
ELECTRICAL TIPPING FLOOR PARTIAL SECOND FLOOR DEMOLITION PLAN
ELECTRICAL PAPER HOUSE AND SHIPPING HOUSE PARTIAL ROOF DEMOLITION PLAN
ELECTRICAL TIPPING FLOOR PARTIAL ROOF DEMOLITION PLAN
ELECTRICAL TRANSFER STATION ROOF DEMOLITION PLAN
ELECTRICAL TIPPING FLOOR PARTIAL FIRST FLOOR HVAC POWER PLAN
ELECTRICAL TIPPING FLOOR PARTIAL SECOND FLOOR HVAC POWER PLAN
ELECTRICAL PAPER HOUSE AND SHIPPING HOUSE PARTIAL ROOF HVAC POWER PLAN
ELECTRICAL TIPPING FLOOR PARTIAL ROOF HVAC POWER PLAN
ELECTRICAL TRANSFER STATION ROOF HVAC POWER PLAN
ELECTRICAL TIPPING FLOOR FIRST FLOOR LIGHTING PLAN
ELECTRICAL TRANSFER STATION FIRST FLOOR LIGHTING PLAN

DPW FILE NO.

93-02-T-273-0
93-02-G-274-0
93-02-AB-275-0
93-02-A-276-0
93-02-A-277-0
93-02-A-278-0
93-02-A-279-0
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93-02-E-319-0
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ALL SITES SCALE: N.T.S.

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NY Engineering Certificate of Authorization No. 0016178

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	ONT	ONT	BID SUBMISSION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME	SIGNATURE	NAME	SIGNATURE
TITLE	DATE	TITLE	DATE

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 23-519	DRAWING NUMBER T1.0
ROOF, HVAC and ELECTRICAL UPGRADES DANIEL P. THOMAS MATERIAL RECOVERY COVER SHEET & GENERAL NOTES		SHEET NO. 1 OF 48	SCALE: N.T.S. DATE: 06/07/2024 DPW FILE NO. 93-02-T-273-0

IN CHARGE OF _____
CHECKED BY _____
MADE BY _____

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RECOMMENDED FOR DESIGN DATE 2/5/25

RECOMMENDED FOR CONSTRUCTION DATE 12/6/24

RECOMMENDED FOR CONSTRUCTION DATE 2/6/25

APPROVED FOR CONSTRUCTION DATE 12/6/24

APPROVED FOR CONSTRUCTION DATE 2/5/25

ABBREVIATIONS

A	Air	FC	Filing Cabinet	PT	Paint
AB	Anchor Bolt	FCU	Fan Coil Unit	PTD	Painted
A/C	Air Conditioning	FD	Floor Drain	PTN	Partition
ACI	American Concrete Institute	FE	Fire Extinguisher	PVC	Polyvinyl Chloride
ACST	Acoustic	FW	Finish Floor	PW	Pass Window
ACP	Acoustical Ceiling Panel	FHC	Fire Hose Cabinet	QA	Quality Assurance
ACU	Air Conditioning Unit	FHMS	Flat Head Machined Screw	QT	Quarry Tile
AD	Access Door	FIN	Finish	R	Radius or Riser
ADAPT	Adaptation	FLAM	Flammable	(R)	Relocated Item
ADH	Adhesive	FLR	Floor	RBR	Rubber Base
ADJ	Adjustable	FLS	Flash	R&C	Reception & Control
ADMIN	Administration	FDN	Foundation	RCP	Reflected Ceiling Plan
ADO	Automatic Door Operator	FR	Fire Retardant	RD	Roof Drain
A/E	Architect/Engineer	FR	Fire Retardant	RD	Roof Drain
AFF	Above Finish Floor	FSP	Fire Standpipe	REC	Reception
ALT	Alternate	FTG	Footing	REINF	Reinforced
ALUM	Aluminum	FXGL	Fixed Glass	REF	Refrigeration
ANCH	Anchor	FUR'G	Furring	REG	Reglet
ANSI	American National Standards Institute	G	Gas	REHAB	Rehabilitation
ANSI	American National Standards Institute	GA	Gauge	REPLEN	Replenishing
APPROX	Approximately	GALV	Galvanized	REPRO	Reproduction
ASPH	Asphalt	GB	Grab Bar	REQM	Requirement
ASPPK	Asphalt Plank	GB	Grab Bar	RESIL	Resilient
ASSIST	Assistant	GEN	General	RM	Room
ASTM	American Society for Testing & Materials	GL	Glass, Glazed	ROO	Rough Opening
AT	Acoustical Tile	GR	Grade	RP	Retractable Partition
AW	American Welding Society	GRT	GROUT	RST	Resistant
BAL	Balance	GWB	Gypsum Wall Board	RT	Rubber Tiling
BB	Bulletin Board	GYP	Gypsum Board	SC	Special Coating
BC	Brick Course	HD	Handicapped	SCHED	Schedule
BD	Board	HDBD	Hardboard	SECT	Section
BLDG	Building	HDWD	Hardwood	SECY	Secretary
BLK	Block	HDWE	Hardware	SGFU	Structural Glazed Facing Units
BLKG	Blocking	HM	Hollow Metal	SH	Shelving, Shelf
BM	Beam	HOR	Horizontal	SIM	Similar
B.O.	Bottom Of	HR	Handrail	SJC	Seismic Joint Ceiling
BOL	Bottom Of Lintel	HT	Height	SJF	Seismic Joint Floor
BOT	Bottom	HTG	Heating	SJW	Seismic Joint Wall
BR	Bumper Rail	HW	Hot Water	SPEC	Specifications
BRKT	Bracket	ID	Inside Diameter	SQ	Square
BU	Bulk-Up	INSUL	Insulation/Insulating	S&R	Shelf & Rod
CAB	Cabinet	INT	Interior	SS	Service Sink
CB	Catch Basin	JNT	Joint	S.S.	Stainless Steel
CEM	Cement	JST	Joist	STA	Station
CER	Ceramic	KP	Kick Plate	STL	Steel
CFI	Conductive Flooring	LAM	Laminate	STOR	Storage
CG	Corner Guard	LAV	Lavatory	STRUC	Structure
CHBD	Chalkboard	LDR	Leader	STRUC	Structure
CHIP	Cas-In-Place	LKR	Locker	SUB	Subcontractor
CJ	Control Joint	LLH	Long Leg Horizontal	SUPER	Supervisor
CLG	Ceiling	LLV	Long Leg Vertical	SUSP	Suspend
CLGL	Clear Glass	LOC	Location	SVF	Sheet Vinyl Flooring
CLO	Closet	LP	Low Point	SW	Sidewalk
CMU	Concrete Masonry Unit	LMSTN	Limestone	SYM	Symmetrical
CO	Clean Out	LT	Light	TOI	Toilet
COL	Column	M	Mechanical	TB	Tack Board
COMM	Communication	MANUF	Manufacturer	TECH	Technician
CONC	Concrete	MATL	Material	TEL	Telephone
CONST	Construction	MAX	Maximum	TEM	Tempered
CONT	Continuous	MB	Modified Bitumen	TEMP	Temperature
CONTR	Contractor	MECH	Mechanical	TEMPY	Temporary
CORR	Corridor	M.E.P.	Mechanical, Electrical, Plumbing	TERR	Terrazzo
CPT	Carpet	MFD	Manufactured	THK	Thick
CR	Card Reader	MFR	Manufacturer	T.O.D.	Top of Deck
CRS	Corrosion-Resistant Steel	MGR	Manager	T.O.M.	Top of Masonry
CRSI	Concrete Reinforcing Steel Institute	MID	Middle	T.O.S.	Top of Steel
C/S	Countersunk	MIN	Minimum	TR	Tread
CT	Ceramic Tile	MISC	Miscellaneous	TRTD	Treated
CTG	Coating	MLDG	Molding	TRTMT	Treatment
CTR	Center	MMT	Mounted	TRTMT	Treatment
CW	Copper	MO	Masonry Opening	TVCTV	Screen or Monitor
CU	Cold Water	MOIST	Moisture	TVWTV	Ceiling Mounted Screen or Monitor
D	Dishes Dryer	MR	Moisture Resistant		
DBL	Double	MT	Metal Threshold		
DET	Detail	MTL	Metal		
DF	Drinking Fountain	MTP	Metal Toilet Partition		
DIA	Diameter	MULT	Multiple		
DIAG	Diagonal	NBS	National Bureau of Standard		
DIM	Dimension	NIC	Not in Contract		
DISP	Dispenser	NL	Neoprene Latex		
DN	Down	NO	Number		
DO	Ditto	NRCA	National Roofing Contractors Assoc.		
DR	Dressing	NTS	Not to Scale		
DS	Downspout	WTG	Waiting		
DWG	Drawing	WV	Welded Vinyl Flooring		
DWR	Drawer	WV	Welded Wire Fabric		
E	Electrical	OC	On Center		
EA	Each	OD	Outside Diameter		
EJ	Expansion Joint	OH	Overhead Door		
EL	Elevation	OPGN	Opening		
ELEC	Electric/Electrical	OPP	Opposite		
ELEV	Elevator	OW	Observation Window		
ENG	Engineer	OWSJ	Open Web Steel Joist		
EP	Electrical Panel	P	Plumbing		
EPY	Epoxy Coating	PAR	Parallel		
EQ	Equal	PC	Poured Concrete		
EQUIP	Equipment	PERP	Perpendicular		
E.S.	Each Side	PL	Plate or Plaster		
EW	Electric Water Cooler	PLAS	Plastic		
EXAM	Examination	PLAM	Plastic Laminate		
EXIST	Existing	PLBG	Plumbing		
EXST	Exhaust	PLYWD	Plywood		
EXP	Exposed	PNL	Panel		
EXPN	Expansion	PNTD	Painted		
EXT	Exterior	PORT	Portable		
F	Female	PROJ	Projection		
FAI	Fresh Air Intake	PS	Product Standard		
F.C.	Fire Code	PSF	Pounds per Square Foot		
F.B.O.	Furnished by Others	PSI	Pounds per Square Inch		

SYMBOLS LEGEND

	Building Section Cut
	Wall Section Cut
	Detail Key
	Elevation Key
	Rigid Insulation
	Batt Insulation
	Brick
	Concrete Cement, Gypsum
	Concrete Block
	Earth
	Wood Blocking
	Drawing Title
	Revision

GENERAL SCOPE OF WORK NOTES:

THE INTENDED SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
ROOFING & PARAPETS (CONTRACT 'G'):

- ABATEMENT OF ASBESTOS CONTAINING MATERIALS AT TRANSFER STATION ROOF AS SHOWN ON CONTRACT DOCUMENTS. SEE SHEET ASB1.0.
- REMOVAL AND DISPOSAL OF ALL EXISTING ROOFING MATERIALS DOWN TO EXISTING ROOF DECK, INCLUDING ALL ROOF MEMBRANES; FLASHINGS; PENETRATION BOOTS; UNDERLAYMENTS; ADHESIVES; RIGID INSULATION BOARDS AND COVER BOARDS; ATTACHMENTS; SEALANTS, CAULKING AND MASTICS; AND MISCELLANEOUS ROOFING SYSTEM ACCESSORIES AS SHOWN IN THE CONTRACT DOCUMENTS.
- REMOVAL AND DISPOSAL OF SKYLIGHTS, AND STRUCTURAL INFILL OF ROOF OPENINGS WITH NEW STEEL FRAMING AND METAL ROOF DECK OR CONCRETE DECK. SEE 'S' DRAWINGS.
- THE COMPLETE INSTALLATION OF A NEW STYRENE BUTADIENE STYRENE (SBS) WHITE 3-PLY ROOFING SYSTEM, TAPERED INSULATION, AND MISCELLANEOUS ROOFING SYSTEM ACCESSORIES OVER EXISTING CONCRETE OR METAL DECK. PROVIDE MEMBRANE TERMINATIONS, CANT STRIPS, COVER BOARDS, WALKWAY PADS, PENETRATION BOOTS OR FLASHINGS, CONTROL JOINT COVERS, SEALANTS, ADHESIVES, AND ALL OTHER MISCELLANEOUS MATERIALS REQUIRED BY THE ROOFING MANUFACTURER FOR A COMPLETE SYSTEM INSTALLATION.
- METAL ROOF DECK AND STEEL FRAMING: CUT AND REMOVE DAMAGED AREAS OF METAL ROOF DECK, AND REPLACE WITH NEW STEEL FRAMING AND DECKING. MECHANICALLY REMOVE SURFACE CORROSION ON STRUCTURAL STEEL FRAMING. SEE 'S' DRAWINGS.
- CONCRETE ROOF DECK: INFILL AREAS OF EQUIPMENT OR SKYLIGHT REMOVAL WITH NEW CONCRETE DECK DOWELED INTO ADJACENT CONSTRUCTION. SEE 'S' DRAWINGS.
- INSULATION: PROVIDE A CONTINUOUS RIGID INSULATION SYSTEM OF MIN. R-30 OVER ALL ROOFS. PROVIDE TAPERED INSULATION BOARDS TO YIELD A MINIMUM PITCH OF 1/4" PER FOOT TOWARDS ROOF DRAINS UNLESS OTHERWISE NOTED ON DRAWINGS, AND PROVIDE TEMPORARY DRAINAGE FOR ALL PORTIONS OF THE ROOF THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ROOF CONDITIONS AND EQUIPMENT, AND SHALL SUBMIT A ROOF PLAN INDICATING TAPERED INSULATION CONFIGURATION FOR ARCHITECT'S REVIEW.
- ACCESSORIES: PROVIDE LADDERS, PENETRATION BOOTS, EQUIPMENT CURB FLASHINGS, EDGE PROTECTION GUARDRAILS, FALL-PROTECTION ANCHORS, ROOF DRAIN LINERS AND STRAINER BASKETS AS INDICATED ON DRAWINGS.
- PARAPETS: REMOVAL AND DISPOSAL OF METAL COPING SYSTEM, METAL PERIMETER CURB EDGE SYSTEM, AND METAL WALL PANEL SYSTEM. PROVIDE NEW COPINGS, PERIMETER CURBS, AND METAL WALL PANELS AS INDICATED ON DRAWINGS. PROVIDE NEW ATTACHMENTS, FLASHINGS, HEIMED DRIP EDGES, AND BLOCKING.

MECHANICAL HVAC WORK (CONTRACT 'M'):

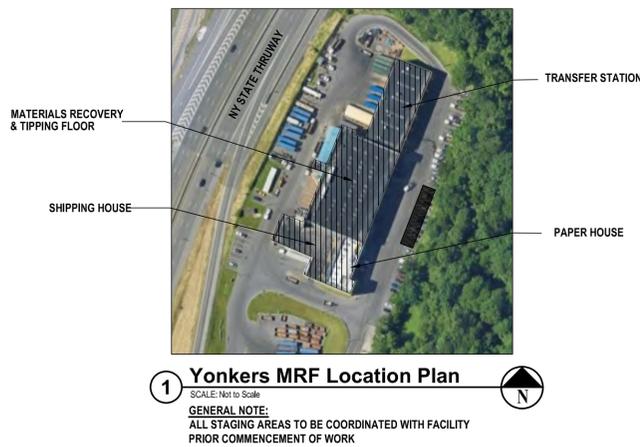
- REMOVAL AND DISPOSAL OF MECHANICAL ROOFTOP UNITS, EXHAUST FANS, VENTILATORS AND ASSOCIATED DUCTS, LOUVERS, AND MISCELLANEOUS ASSOCIATED DEVICES AS SHOWN IN THE CONTRACT DOCUMENTS.
- INSTALLATION OF NEW ROOFTOP UNITS, CONDENSING UNITS, AIR HANDLING UNITS, EXHAUST FANS, MISTING SYSTEM, AND ASSOCIATED DUCTS, LOUVERS, GRILLES, ELECTRIC HEAT TRACE, CONTROLS AND OTHER MISCELLANEOUS ASSOCIATED DEVICES AS SHOWN IN THE CONTRACT DOCUMENTS.

ELECTRICAL WORK (CONTRACT 'E'):

- REMOVAL AND DISPOSAL OF EXISTING LIGHTING, AND INSTALLATION OF NEW LIGHT FIXTURES AND CONTROLS CONNECTED BACK TO EXISTING ELECTRICAL SERVICE.
- ELECTRICAL DISCONNECT OF MECHANICAL HVAC EQUIPMENT TO BE REMOVED UNDER CONTRACT 'M', AND CONNECTION OF NEW EQUIPMENT, CONTROLS AND MISCELLANEOUS ASSOCIATED DEVICES BACK TO EXISTING ELECTRICAL SERVICE. NEW MECHANICAL EQUIPMENT SHALL BE INTERCONNECTED TO FIRE ALARM SYSTEM.
- INSTALLATION OF NEW CIRCUIT BREAKERS, WIRING, AND CONDUIT ON EXISTING PANELS AS INDICATED.
- INSTALLATION OF NEW FIRE ALARM DEVICES AND ASSOCIATED EQUIPMENT CONNECTED BACK TO EXISTING FIRE ALARM CONTROL PANEL.

GENERAL WORK NOTES (ALL CONTRACTS):

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENTLY ADOPTED STATE CODES; LOCAL ZONING & PLANNING CODES AND ORDINANCES; RULES AND REGULATIONS OF ALL LOCAL AGENCIES, DEPARTMENTS, AND PUBLIC UTILITY COMPANIES HAVING JURISDICTION OVER ANY PORTION OF WORK; AND ALL OSHA REGULATIONS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH BUILDING, FIRE, PLUMBING, MECHANICAL, GAS & ENERGY CODES OF NEW YORK STATE.
- CONTRACTOR(S) SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE COMMENCING WITH OR CONTINUING WORK IF THEY CANNOT COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND ALL APPLICABLE CODES AND REGULATIONS.
- THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND COMPRISE THE PROJECT MANUAL. CONTRACTOR(S) SHALL CHECK AND VERIFY ALL CONDITIONS AT THE SITE PRIOR TO STARTING WORK AND SHALL FAMILIARIZE THEMSELVES WITH THE INTENT OF THE PLANS. IF DURING CONSTRUCTION A CONDITION IS UNCOVERED WHICH DIFFERS FROM THAT INDICATED ON PLANS, THE CONTRACTOR SHALL IMMEDIATELY CONSULT WITH THE ARCHITECT/ENGINEER. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING THE WORK AGAINST THE EXISTING CONDITIONS OF THE SITE AND AGAINST THE WORK OF OTHER PRIME CONTRACTOR(S). CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ALL TEMPORARY MEASURES, COSTS, DELAYS, CHANGES TO THE SCOPE, LIABILITY ARISING FROM THEIR ACTIONS, ETC. WITHOUT ADDITIONAL COMPENSATION IF THE CONTRACTOR FAILS TO VERIFY THE FIELD CONDITIONS AGAINST THE PROJECT INTENT PRIOR TO COMMENCING WORK.
- OVERALL BUILDING DIMENSIONS, HEIGHTS OR ELEVATIONS, AND LOCATIONS OF EXISTING STRUCTURES OR ELEMENTS INCLUDING BUT NOT LIMITED TO ENTRY DOORS, ROOF DECKS, STRUCTURAL FRAMING, PARAPETS, ROOF PENETRATIONS, MECHANICAL OR ELECTRICAL EQUIPMENT, INTERIOR PARTITION LAYOUTS, DUCTWORK, VENTS, LIGHTING, SERVICE UTILITIES, AND OTHER MISCELLANEOUS DEVICES ARE APPROXIMATE. DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD AND MAKE ADJUSTMENTS TO WORK AS NECESSARY. IF A DISCREPANCY ARISES BASED ON EXISTING FIELD CONDITIONS, CONSULT WITH ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR(S) SHALL NOT MAKE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS WITHOUT WRITTEN DIRECTIVE FROM THE ARCHITECT/ENGINEER. IF THERE IS A DISCREPANCY IN THE CONTRACT DOCUMENTS, CONTRACTOR(S) SHALL CONSULT WITH THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
- ANY ITEM OF CONSTRUCTION NECESSARY FOR PROPER COMPLETION OF THE WORK WHICH IS NOT SPECIFICALLY COVERED IN THE CONTRACT DOCUMENTS SHALL BE CONSIDERED REQUIRED BY AND INCLUDED IN THE WORK SCOPE. THE DETAILS AND SPECIFICATIONS PROVIDED WITHIN THE PROJECT MANUAL DO NOT DEPICT EVERY CONDITION THAT WILL BE REQUIRED FOR A COMPLETE INSTALLATION. THE PROJECT MANUAL DESCRIBES THE INTENDED SCOPE OF WORK AND WORK TO BE UNDERTAKEN. EXISTING FEATURES SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE THE NEW WORK. THE CONTRACTOR MUST PROVIDE AS REQUIRED ALL ADDITIONAL CONSTRUCTION ITEMS INCLUDING BUT NOT LIMITED TO BLOCKING, TAPERED INSULATION, CANTS, CONDUIT MOUNTING BLOCKS, ETC. TO EXECUTE THE WORK AND TO EXECUTE ALL OF THE CONSTRUCTION SURROUNDING THE DETAILS INDICATED.
- CONTRACTOR(S) SHALL DISTURB ONLY THE AREAS OF THE SITE AFFECTED BY THE WORK. REMOVALS AND DEMOLITION WORK SHALL BE LIMITED TO THAT WHICH CAN BE RECOVERED OR OTHERWISE MADE WEATHERTIGHT IN ONE (1) WORKING DAY.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ANY TEMPORARY SCAFFOLDING AND BRIDGING. SCAFFOLDING PERMIT(S), IF REQUIRED, SHALL BE DESIGNED AND STAMPED BY A LICENSED NYS ENGINEER.
- CONTRACTOR(S) SHALL PROTECT AND MAINTAIN ALL PROPERTY, ADJACENT CONSTRUCTION, FINISHES, EQUIPMENT, ETC. AND SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE INTERIOR AND EXTERIOR OF THE BUILDING THAT RESULT FROM AND DURING THE WORK. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK (BY THEIR OWN CONTRACT AND OTHER PRIME CONTRACTS) AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION, AND MISALIGNMENT.
- OVER-DEMOLITION SHALL BE ALLOWED PROVIDED THAT ALL SURFACES ARE REBUILT TO MATCH THE MATERIALS, STRUCTURAL INTEGRITY AND APPEARANCE OF THOSE WHICH WERE REMOVED AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR(S) SHALL PROTECT OR TEMPORARILY REMOVE AND STORE ALL EXISTING ITEMS WHICH ARE INDICATED TO REMAIN THROUGHOUT THE ENTIRE COURSE OF WORK - ITEMS SHALL BE REINSTALLED TO EXISTING LOCATIONS AND/OR CONDITIONS AND SHALL BE RECONNECTED TO SERVICES AS REQUIRED AFTER THE COMPLETION OF ALL WORK.
- CONTRACTOR(S) SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE FOR ALL PORTIONS OF THE ROOF THROUGHOUT THE ENTIRE DURATION OF THE PROJECT.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THE SAFETY OF THE PUBLIC, FACILITY EMPLOYEES, AND OTHER TRADESMAN THROUGHOUT THE ENTIRE DURATION OF THE WORK.
- CONTRACTOR(S) SHALL ADHERE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL GUARANTEE TO THE OWNER THAT ALL MATERIALS AND EQUIPMENT INCORPORATED INTO THE WORK WILL BE NEW. ALL NEW EQUIPMENT SHALL BE AS SPECIFIED IN THE PROJECT MANUAL OR AS OTHERWISE ACCEPTED BY THE ARCHITECT/ENGINEER. SHALL BE FREE OF DEFECTS AND FAILURES, AND SHALL BE GUARANTEED FOR THE MINIMUM SPECIFIED DURATION OF TIME STARTING FROM THE DATE OF COMPLETION.
- THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS AND METHODS OF THE PERFORMANCE OF THE WORK BY THE CONTRACTOR(S), SUBCONTRACTORS, OR OWNER. NOR SHALL THE ARCHITECT/ENGINEER GUARANTEE THE PERFORMANCE OF WORK. THE PROJECT MANUAL DOES NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, CARE OF ADJACENT PROPERTY DURING CONSTRUCTION, OR COMPLIANCE WITH STATE AND FEDERAL REGULATIONS.
- EACH PRIME CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THEIR WORK WITH THE WORK OF OTHER PRIME CONTRACTORS.
- PRIOR TO COMMENCING ON-SITE WORK, CONTRACTOR(S) SHALL PREPARE AN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) EMERGENCY ACTION PLAN (EAP) FOR THEMSELVES AND ANY SUBCONTRACTORS FOR INSPECTION UPON REQUEST. THE PLAN MUST INCLUDE, BUT IS NOT LIMITED TO, HAZARD COMMUNICATION, LABELING, EMERGENCY RESPONSE PREPAREDNESS, TRAINING, AND ALL OTHER OSHA REQUIREMENTS. COPIES OF SAFETY DATA SHEETS (SDS) FOR ANY HAZARDOUS MATERIALS, AS DEFINED BY OSHA'S HAZARD COMMUNICATION STANDARD OR BY NEW YORK STATE, MUST BE PROVIDED WHENEVER SUCH MATERIALS ARRIVE ON SITE. SAFETY DATA SHEETS MUST BE KEPT TOGETHER AND MAINTAINED CENTRALLY ON SITE THROUGHOUT THE ENTIRE DURATION OF WORK THROUGH COMPLETION.



CODE ANALYSIS SUMMARY:

BUILDING TYPE: EXISTING BUILDING
PROJECT TYPE: ROOF REPLACEMENT AND INSTALLATION OF HVAC & LIGHTING EQUIPMENT

2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS) ALTERATION LEVEL 1

SECTION 705 REROOFING: MATERIALS AND METHODS OF APPLICATION USED FOR RECOVERING OR REPLACING AN EXISTING ROOF COVERING SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 15 OF THE BUILDING CODE OF NEW YORK STATE.

SECTION 707: ENERGY CONSERVATION - COMPLY WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS).

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

C301 CLIMATE ZONE - WESTCHESTER ZONE 4A

C402.1.3 INSULATION ENTIRELY ABOVE ROOF DECK: MINIMUM R-30 CONTINUOUS INSULATION

2020 BUILDING CODE OF NEW YORK STATE (BCNYS)

CHAPTER 15: ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

SECTION 1502 ROOF DRAINAGE: EXISTING TO REMAIN. SECONDARY (EMERGENCY OVERFLOW) DRAINS EXEMPT UNDER EBCNYS SECTION 705.1 ITEM 2.

SECTION 1504 PERFORMANCE REQUIREMENTS: DESIGN CODE: ASCE 7, METHOD 2 FOR COMPONENTS AND CLADDING CATEGORY IV BUILDING WITH AN IMPORTANCE FACTOR OF: 1.5 WIND SPEED: 125MPH EXPOSURE CATEGORY: D ROOF PITCH: 0.125 INCH PER FOOT ROOF AREA DESIGN UPLIFT PRESSURES: a. CORNER UPLIFT PRESSURE 76.8 LBF/SQ. FT. b. PERIMETER UPLIFT PRESSURE: 51 LBF/ SQ. FT. c. FIELD-OF-ROOF UPLIFT PRESSURE: 30.4 LBF/ SQ. FT.

SECTION 1505: FIRE CLASSIFICATION

1505.2 CLASS A ROOF ASSEMBLIES' EXEMPTION 1: CLASS A ROOF ASSEMBLIES INCLUDE THOSE WITH COVERINGS OF BRICK, MASONRY OR AN EXPOSED CONCRETE DECK.

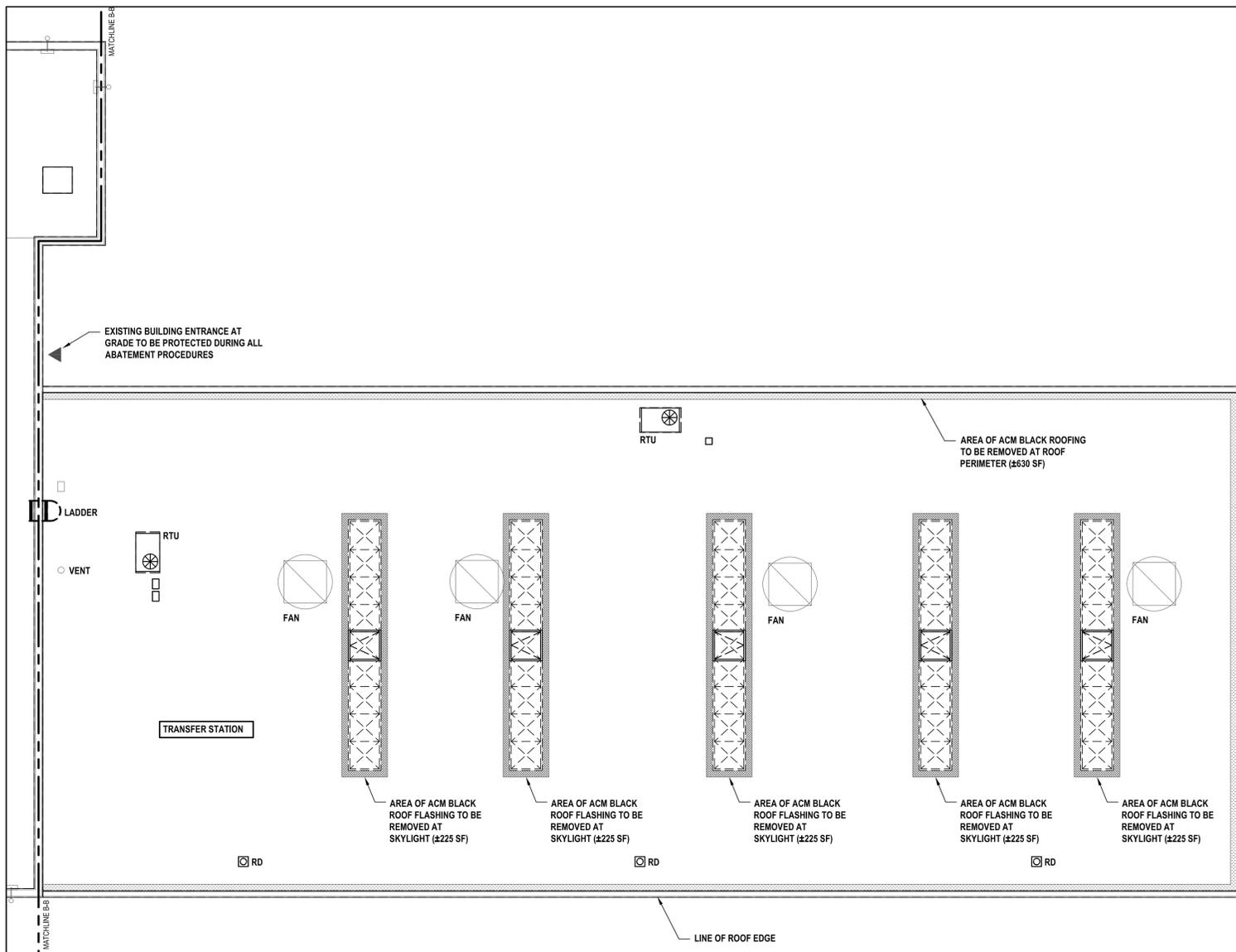
SECTION 1507: REQUIREMENTS FOR ROOF COVERINGS - APPLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SITE KEY PLAN

REGISTERED ARCHITECT
 H 2 M architects + engineers
 2700 Westchester Avenue, Suite 415, Purchase, NY 10577
 P: (914) 358-6623, F: (914) 358-5624

1	10/30/2024	ONT	ONT	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES		CONTRACTOR: _____ PROJECT COORDINATOR: _____ NAME: _____ NAME: _____ SIGNATURE: _____ SIGNATURE: _____ TITLE: _____ DATE: _____ TITLE: _____ DATE: _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER: 23-519 DRAWING NUMBER: INF1.0 SHEET NO. 2 OF 48	Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York GENERAL NOTES, LEGENDS AND LOCATION PLANS	
SCALE: AS NOTED		DATE: 06/07/2024		DPW FILE NO. 93-02-G-274-0

IN CHARGE OF _____
 CHECKED BY _____
 MADE BY _____



Partial Roof Asbestos Removal Pan - Transfer Station
SCALE: 1/8"=1'-0"

ASBESTOS ABATEMENT NOTES:

- ASBESTOS ABATEMENT WORK SHALL CONFORM TO NYSOL INDUSTRIAL CODE FILE 56, ALL APPLICABLE FEDERAL AND STATE CODE REQUIREMENTS AND THE CONTRACT. SEE INFORMATION DOCUMENTS SECTION OF THE PROJECT MANUAL FOR THE ASBESTOS ABATEMENT SPECIFICATION AND LABORATORY ASBESTOS ANALYSIS REPORT.
- ASBESTOS PROJECT MONITORING - VISUAL CLEARANCE - PROJECT MONITORING SERVICE SHALL BE PERFORMED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE AND SCHEDULE WITH OWNER'S THIRD PARTY ASBESTOS PROJECT MONITOR.
- CONTRACTOR SHALL PROVIDE 10 DAYS NOTIFICATION TO ARCHITECT AND OWNER BEFORE COMMENCING ABATEMENT OPERATIONS ON SITE IN THE AREAS IDENTIFIED AS BEING POSITIVE FOR ASBESTOS. THE FOLLOWING LOCATIONS HAVE BEEN IDENTIFIED AS HAVING AN ASBESTOS CONTAINING MATERIAL:

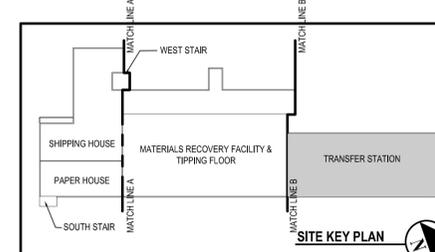
TRANSFER STATION

 - BLACK ROOF FLASHING ON THE SKYLIGHTS. THERE WERE 5 SKYLIGHT ARRAYS OBSERVED. EACH SKYLIGHT HAS 225 SQUARE FEET OF ACM ROOF FLASHING, IN TOTAL THERE IS APPROXIMATELY ±1,125 SQUARE FEET. THE FLASHING IS NON-FRIABLE AND WAS OBSERVED TO BE IN GOOD CONDITION.
 - BLACK ROOFING UNDER THE METAL ROOF CAP AT THE PERIMETER OF THE ROOF. THE ROOFING IS NON-FRIABLE AND WAS OBSERVED TO BE IN GOOD CONDITION. APPROXIMATELY ±630 SQUARE FEET.
- CONTRACTOR SHALL PAY FOR AND SECURE ALL PERMITS AND NOTIFICATIONS REQUIRED FOR ASBESTOS ABATEMENT WORK.
- CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH OWNER AND ARCHITECT.
- CONTRACTOR SHALL SUBMIT COPIES OF ALL MANIFESTS AND LANDFILL RECEIPTS TO OWNER AND ARCHITECT PRIOR TO SUBMITTING FOR PAYMENT
- CONTRACTOR IS TO VERIFY ALL QUANTITIES IN FIELD.
- THE COSTS ASSOCIATED WITH THE REMOVAL, CLEANING, REPAIR AND DISPOSAL OF ASBESTOS ARE TO BE INCLUDED IN THE CONTRACTOR'S BASE BID.
- BUILDING SHALL REMAIN WATER TIGHT OR MADE WATER TIGHT BY THE END OF EACH DAY THROUGHOUT ASBESTOS ABATEMENT WORK OPERATIONS.

LEGEND:

SYMBOL	DESCRIPTION
	AREA OF EXISTING ASBESTOS CONTAINING BLACK ROOF FLASHING ROOFING AT SKYLIGHTS. EXISTING CONCRETE ROOF DECK TO REMAIN. SEE NOTE 3a OF THE ASBESTOS ABATEMENT NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION
	AREA OF EXISTING ASBESTOS CONTAINING BLACK ROOFING AT ROOF PERIMETER. EXISTING CONCRETE ROOF DECK TO REMAIN. SEE NOTE 3b

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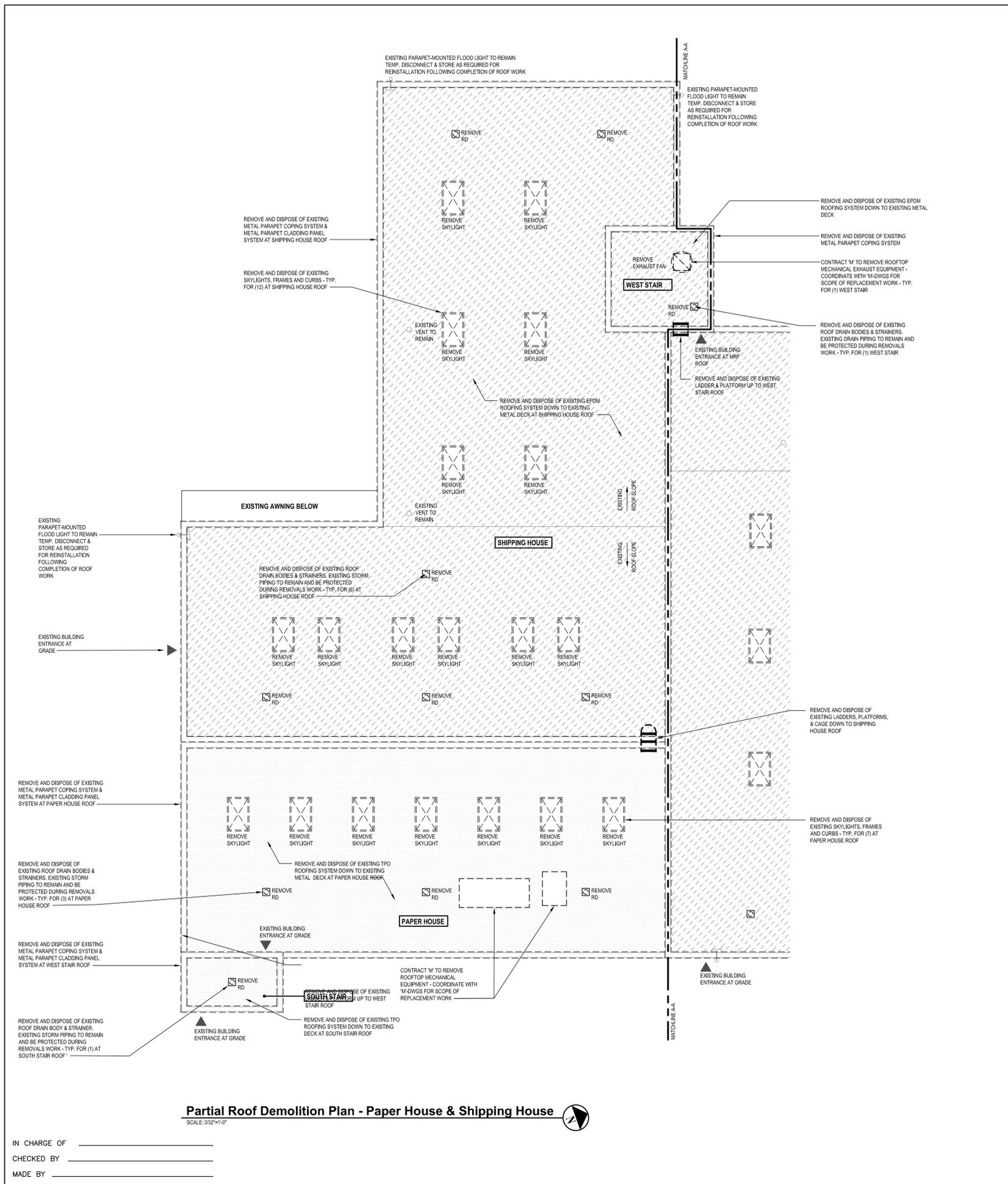
Mt. Vernon, NY 11747
Auburn, NY 12209
White Plains, NY 10604
New City, NY 10956
Plainfield, NJ 07064
Howell, NJ 07731

1	10/30/2024	ONT	ONT	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	DATE _____	DATE _____
SIGNATURE _____	SIGNATURE _____	TITLE _____	TITLE _____
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER 23-519	DRAWING NUMBER ASB1.0
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		SHEET NO. 3 OF 48	
DIVISION OF ENGINEERING		SCALE: AS NOTED	
Roof, HVAC and Electrical Upgrades		DATE: 06/07/2024	
Daniel P. Thomas Material Recovery Facility		DPW FILE NO. _____	
Yonkers, New York		REV. NO. _____	
ASBESTOS ABATEMENT PLAN, NOTES AND LEGEND		93-02-AB-275-0	



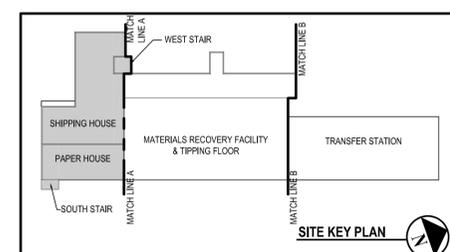
DEMOLITION NOTES:

- REMOVE AND DISPOSE OF EXISTING EPDM ROOFING SYSTEM AT ROOF AREAS AS INDICATED. REMOVALS WORK SHALL INCLUDE ROOF MEMBRANE, FLASHINGS AND BOOTS, UNDERLAYMENTS, ADHESIVES, INSULATION BOARD, ATTACHMENTS AND MISCELLANEOUS ACCESSORIES DOWN TO THE EXISTING ROOF DECK. EXISTING ROOF DECK SHALL REMAIN UNDISTURBED AND PROTECTED FROM DAMAGE.
- REMOVE AND DISPOSE OF EXISTING TPO ROOFING SYSTEM AT ROOF AREAS AS INDICATED. REMOVALS WORK SHALL INCLUDE ROOF MEMBRANE, FLASHINGS AND BOOTS, UNDERLAYMENTS, ADHESIVES, INSULATION BOARD, ATTACHMENTS AND MISCELLANEOUS ACCESSORIES DOWN TO THE EXISTING ROOF DECK. EXISTING ROOF DECK SHALL REMAIN UNDISTURBED AND PROTECTED FROM DAMAGE.
- REMOVE AND DISPOSE OF EXISTING SKYLIGHTS. REMOVALS WORK SHALL INCLUDE SKYLIGHT GLAZING, FRAME, AND CURBS. PROVIDE TEMPORARY FALL PROTECTION GUARDS AT EXISTING ROOF DECK OPENINGS AND ROOF PERIMETERS PER OSHA - GUARDS SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF ALL ROOF WORK.
- REMOVE AND DISPOSE OF EXISTING DRAIN BODIES AND STRAINERS. REMOVE DEBRIS FROM EXISTING PIPING. EXISTING PIPING TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED IN DRAWINGS.
- REMOVE AND DISPOSE OF EXISTING METAL COPING SYSTEM AND METAL PARAPET CLADDING SYSTEM. REMOVALS SHALL INCLUDE ALL SHEET METAL AND CORRUGATED METAL, ATTACHMENTS, AND BLOCKING. EXISTING PARAPET WALL AND/OR PERIMETER EDGE CONSTRUCTION SHALL REMAIN UNDISTURBED AND PROTECTED FROM DAMAGE.
- CONTRACT 'M' SHALL DISCONNECT AND REMOVE ALL MECHANICAL AIR CONDITIONING AND EXHAUST EQUIPMENT AS INDICATED ON PLANS. COORDINATE WITH 'M' SHEETS FOR REMOVALS WORK.
- CONTRACT 'G' SHALL TEMPORARILY DISCONNECT AND REMOVE ELECTRICAL CONDUITS, JUNCTION BOXES, EXTERIOR PARAPET MOUNTED LIGHTING FIXTURES, & MISCELLANEOUS ELECTRICAL DEVICES, AS REQUIRED TO PERFORM ALL REMOVALS WORK AND SHALL PROTECT AND STORE ALL DEVICES FOR REINSTALLATION FOLLOWING THE COMPLETION OF ALL ROOF WORK.
- PROTECT AND MAINTAIN EXISTING CONSTRUCTION OR FIXTURES WHICH ARE INDICATED TO REMAIN, INCLUDING CHIMNEY AND TELEDATA DEVICES. BUILDING ENTRIES AT GRADE AND STAIR BULKHEADS SHALL REMAIN ACCESSIBLE AND SHALL BE PROTECTED AT ALL TIMES.

DEMOLITION LEGEND	
	EXISTING TPO ROOFING SYSTEM TO BE REMOVED
	EXISTING EPDM ROOFING SYSTEM TO BE REMOVED
	EXISTING BUILDING ACCESS AT GRADE OR ROOF TO BE PROTECTED DURING ALL DEMOLITION PROCEDURES
	EXISTING SKYLIGHT TO BE REMOVED
	EXISTING MECHANICAL EQUIPMENT TO BE DISCONNECTED AND REMOVED
	EXISTING ROOF DRAIN TO BE REMOVED
	EXISTING METAL CLADDING & COPING SYSTEM TO BE REMOVED

Partial Roof Demolition Plan - Paper House & Shipping House
SCALE: 3/32"=1'-0"

IN CHARGE OF _____
CHECKED BY _____
MADE BY _____



REGISTERED ARCHITECT
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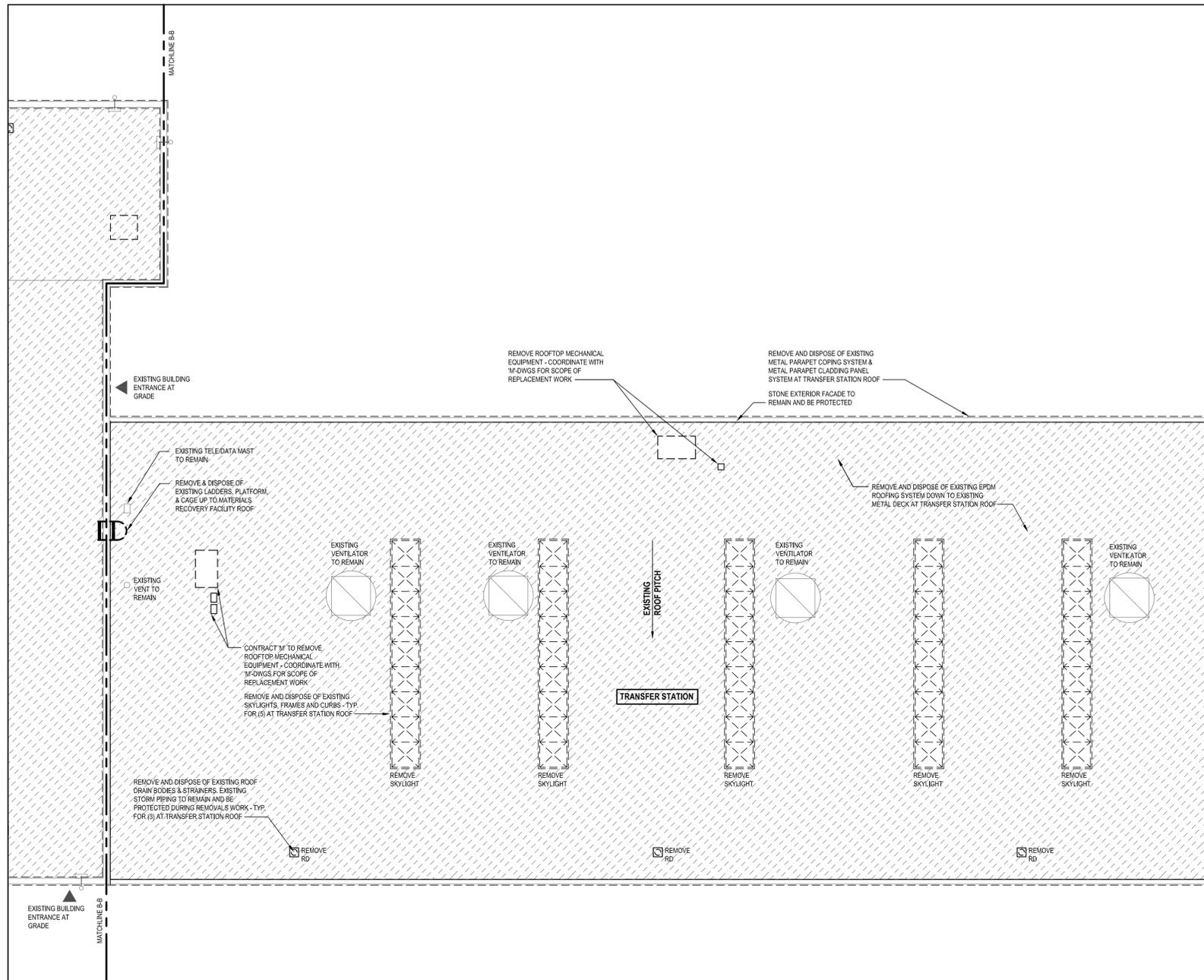
Mt. Vernon, NY 11747
Auburn, NY 12228
White Plains, NY 10604
New City, NY 10956
Plainfield, NJ 07064
Howell, NJ 07731

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	ONT	ONT	BID SUBMISSION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

NAME _____ SIGNATURE _____ TITLE _____		DATE _____		CONTRACTOR	
NAME _____ SIGNATURE _____ TITLE _____		DATE _____		PROJECT COORDINATOR	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 23-519	DRAWING NUMBER AD1.0
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				SHEET NO. 4 OF 48	SCALE: AS NOTED DATE: 06/07/2024
PARTIAL DEMOLITION ROOF PLAN - PAPER HOUSE & SHIPPING HOUSE				DPW FILE NO.	REV. NO. 93-02-A-276-0



Partial Roof Demolition Plan - Transfer Station
SCALE: 3/32"=1'-0"

DEMOLITION NOTES:

- REMOVE AND DISPOSE OF EXISTING EPDM ROOFING SYSTEM AT ROOF AREAS AS INDICATED. REMOVALS WORK SHALL INCLUDE ROOF MEMBRANE, FLASHINGS AND BOOTS. UNDERLAYMENTS, ADHESIVES, INSULATION BOARD, ATTACHMENTS AND MISCELLANEOUS ACCESSORIES DOWN TO THE EXISTING ROOF DECK. EXISTING ROOF DECK SHALL REMAIN UNDISTURBED AND PROTECTED FROM DAMAGE.
- REMOVE AND DISPOSE OF EXISTING TPO ROOFING SYSTEM AT ROOF AREAS AS INDICATED. REMOVALS WORK SHALL INCLUDE ROOF MEMBRANE, FLASHINGS AND BOOTS. UNDERLAYMENTS, ADHESIVES, INSULATION BOARD, ATTACHMENTS AND MISCELLANEOUS ACCESSORIES DOWN TO THE EXISTING ROOF DECK. EXISTING ROOF DECK SHALL REMAIN UNDISTURBED AND PROTECTED FROM DAMAGE.
- REMOVE AND DISPOSE OF EXISTING SKYLIGHTS. REMOVALS WORK SHALL INCLUDE SKYLIGHT GLAZING, FRAME, AND CURBS. PROVIDE TEMPORARY FALL PROTECTION GUARDS AT EXISTING ROOF DECK OPENINGS AND ROOF PERIMETERS PER OSHA - GUARDS SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF ALL ROOF WORK.
- REMOVE AND DISPOSE OF EXISTING DRAIN BODIES AND STRAINERS. REMOVE DEBRIS FROM EXISTING PIPING. EXISTING PIPING ROOF TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED IN DRAWINGS.
- REMOVE AND DISPOSE OF EXISTING METAL COPING SYSTEM AND METAL PARAPET CLADDING SYSTEM. REMOVALS SHALL INCLUDE ALL SHEET METAL AND CORRUGATED METAL. ATTACHMENTS, AND BLOCKING. EXISTING PARAPET WALL AND/OR PERIMETER EDGE CONSTRUCTION SHALL REMAIN UNDISTURBED AND PROTECTED FROM DAMAGE.
- CONTRACT 'M' SHALL DISCONNECT AND REMOVE ALL MECHANICAL AIR CONDITIONING AND EXHAUST EQUIPMENT AS INDICATED ON PLANS. COORDINATE WITH 'M' SHEETS FOR REMOVALS WORK.
- CONTRACT 'G' SHALL TEMPORARILY DISCONNECT AND REMOVE ELECTRICAL CONDUITS, JUNCTION BOXES, EXTERIOR PARAPET MOUNTED LIGHTING FIXTURES, & MISCELLANEOUS ELECTRICAL DEVICES. AS REQUIRED TO PERFORM ALL REMOVALS WORK AND SHALL PROTECT AND STORE ALL DEVICES FOR REINSTALLATION FOLLOWING THE COMPLETION OF ALL ROOF WORK.
- PROTECT AND MAINTAIN EXISTING CONSTRUCTION OR FIXTURES WHICH ARE INDICATED TO REMAIN, INCLUDING CHIMNEY AND TELEDATA DEVICES. BUILDING ENTRIES AT GRADE AND STAIR BULKHEADS SHALL REMAIN ACCESSIBLE AND SHALL BE PROTECTED AT ALL TIMES.

DEMOLITION LEGEND	
	EXISTING TPO ROOFING SYSTEM TO BE REMOVED
	EXISTING EPDM ROOFING SYSTEM TO BE REMOVED
	EXISTING BUILDING ACCESS AT GRADE OR ROOF TO BE PROTECTED DURING ALL DEMOLITION PROCEDURES
	EXISTING SKYLIGHT TO BE REMOVED
	EXISTING MECHANICAL EQUIPMENT TO BE DISCONNECTED AND REMOVED CONTRACT 'M'
	EXISTING ROOF DRAIN TO BE REMOVED
	EXISTING METAL CLADDING & COPING SYSTEM TO BE REMOVED

SITE KEY PLAN

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Howell, NJ 07731

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME	SIGNATURE	NAME	SIGNATURE
TITLE	DATE	TITLE	DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT NUMBER	DRAWING NUMBER
23-519	AD1.2

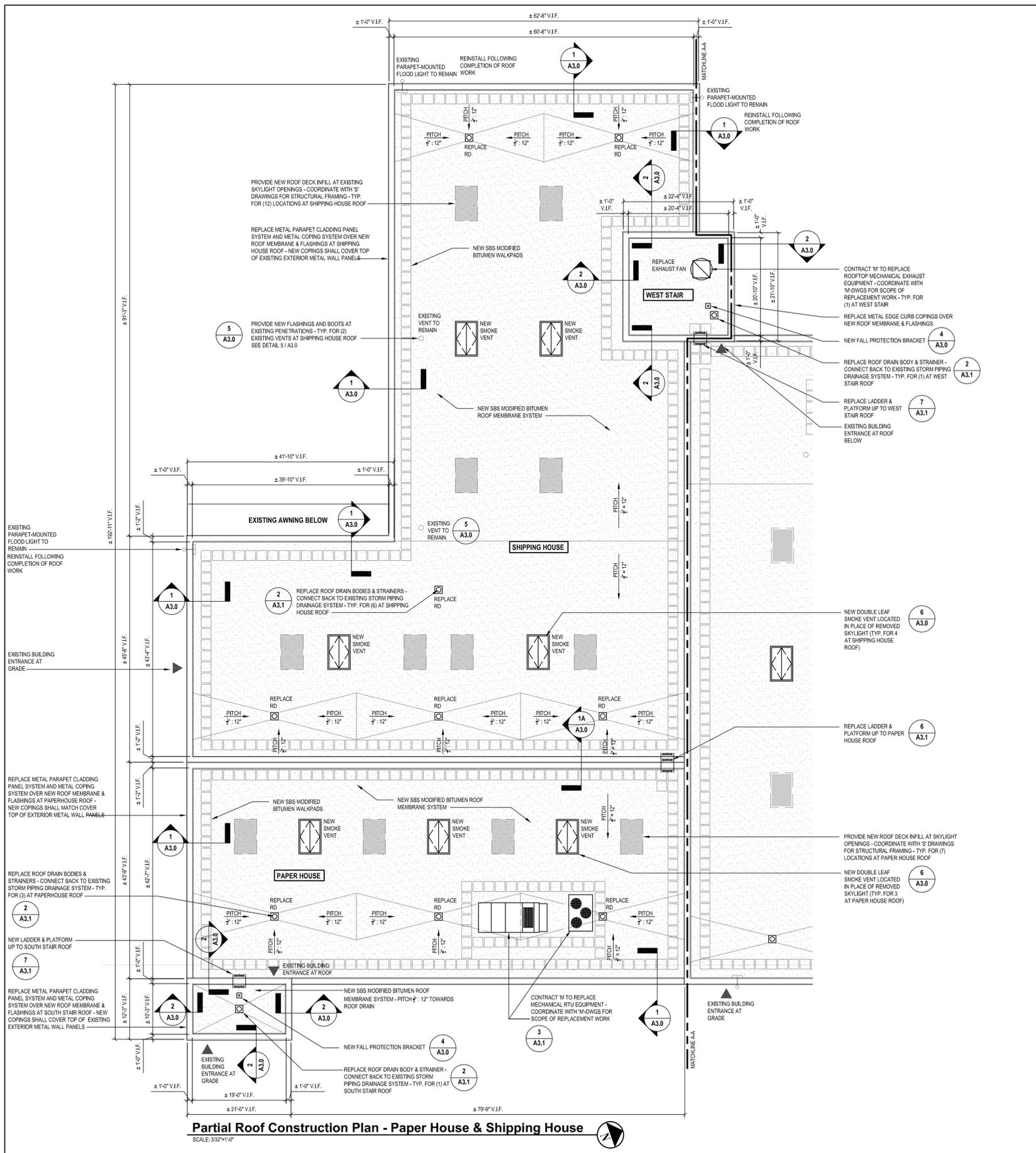
SHEET NO. 6 OF 48

Roof, HVAC and Electrical Upgrades
Daniel P. Thomas Material Recovery Facility
Yonkers, New York

PARTIAL DEMOLITION ROOF - TRANSFER STATION

SCALE: AS NOTED	DATE: 06/07/2024
DPW FILE NO.	REV. NO.
93-02-A-278-0	

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Partial Roof Construction Plan - Paper House & Shipping House
 SCALE: 3/32"=1'-0"

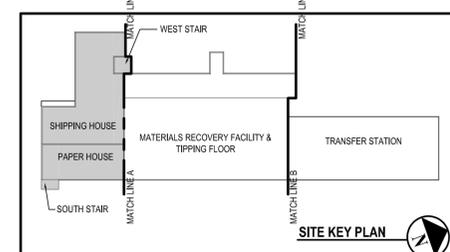
IN CHARGE OF _____
 CHECKED BY _____
 MADE BY _____

CONSTRUCTION NOTES:

- PROVIDE AND INSTALL NEW SBS MODIFIED BITUMEN MULTI-PLY ROOFING SYSTEM AT ALL ROOF AREAS. INSTALLATION SHALL INCLUDE ALL PILES, UNDERLAYMENTS, RIGID INSULATION, COVER BOARD, FLASHINGS, SEALANTS AND MISCELLANEOUS ROOFING ACCESSORIES AS REQUIRED FOR A COMPLETE ROOFING SYSTEM AND WARRANTY BY MANUFACTURER. PROVIDE POSITIVE PITCH TOWARDS ROOF DRAINS AS INDICATED.
- WHERE INDICATED, INFILL SKYLIGHT OPENINGS WITH NEW FRAMING AND ROOF DECK. COORDINATE WITH 'S' SHEETS FOR STRUCTURAL DESIGN AND DETAILING OF INFILL WORK.
- WHERE INDICATED, INSTALL NEW SMOKE VENTS AT ROOF DECK OPENINGS WHERE SKYLIGHTS WERE REMOVED. INSTALL SMOKE VENTS WITH EXISTING FRAMING (CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD) ON MANUFACTURER'S CURBS. FURNISH SMOKE VENTS WITH SINGLE-LEAF OR DOUBLE-LEAF HATCH DOORS AS INDICATED, WITH 4-SIDED FALL-PROTECTION SAFETY GUARDS, AND WELDED WIRE FALL-PROTECTION NET.
- PROVIDE AND INSTALL RETROFIT ROOF DRAIN BODIES, LINERS AND STRAINERS. RECONNECT DRAIN BODY BACK TO EXISTING PIPING.
- CONTRACT 'M' SHALL INSTALL NEW MECHANICAL AIR CONDITIONING, VENTILATION, AND EXHAUST EQUIPMENT AS INDICATED. COORDINATE WITH 'M' SHEETS FOR EQUIPMENT SCHEDULES AND DETAILS. FLASHINGS AT EQUIPMENT CURBS OR OTHER PENETRATIONS SHALL BE INSTALLED BY CONTRACTOR'S.
- PROVIDE AND INSTALL NEW METAL PANEL PARAPET CLADDING, METAL COPINGS, AND METAL PERIMETER EDGE FASCIAS AT ROOF AREAS AS INDICATED. PROVIDE ALL PANELS, BLOCKING, ATTACHMENTS, FASTENERS, SEALANTS AND FLASHINGS AS REQUIRED FOR A COMPLETE SYSTEM. ALL SEAMS SHALL BE FACTORY-WELDED AND ALL EDGES SHALL BE HEMMED. CLADDING AND COPING SYSTEMS SHALL BE FACTORY-FINISHED AND SHALL MATCH EXISTING METAL WALL PANELS IN COLOR AND FINISH.
- INSTALL NEW MIN. 42" HIGH EDGE-PROTECTION GUARDRAIL SYSTEM AS INDICATED. GUARDRAIL SYSTEM SHALL BE OSHA COMPLIANT.
- INSTALL NEW FALL-PROTECTION ANCHOR AS INDICATED. ANCHOR SHALL BE OSHA COMPLIANT.
- CONTRACT 'G' SHALL REINSTALL ELECTRICAL CONDUIT AND MISCELLANEOUS DEVICES BACK TO ORIGINAL LOCATIONS, AND REINSTATE ELECTRICAL SERVICE.

CONSTRUCTION LEGEND	
	NEW SBS MODIFIED BITUMEN ROOFING SYSTEM
	AREA OF NEW ROOF DECK INFILL
	EXISTING BUILDING ACCESS AT GRADE OR ROOF TO BE PROTECTED DURING ALL CONSTRUCTION PROCEDURES
	NEW MECHANICAL EQUIPMENT AIR CONDITIONING OR EXHAUST EQUIPMENT - RECONNECT TO EXISTING SERVICES CONTRACT 'M'
	NEW RETROFIT ROOF DRAIN BODY AND PITCHED ROOFING - RECONNECT TO EXISTING STORM PIPING
	NEW METAL CLADDING & COPING SYSTEM AT EXISTING PARAPET WALLS
	NEW 42" GUARDRAIL SYSTEM AT EXISTING ROOF EDGE PERIMETERS
	EXISTING PARAPET MOUNTED FLOOD LIGHT TO REMOVE, STORE, & INSTALL
	NEW DOUBLE LEAF SMOKE VENT
	NEW SINGLE LEAF SMOKE VENT

NOTE:
 REFER TO SHEET INF1.0 FOR GENERAL NOTES AND LEGENDS.



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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	ONT	ONT	BID SUBMISSION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

NAME _____ SIGNATURE _____ TITLE _____	DATE _____	NAME _____ SIGNATURE _____ TITLE _____	DATE _____
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CONTRACTOR PROJECT COORDINATOR

WESTCHESTER COUNTY, NEW YORK
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 DIVISION OF ENGINEERING

CONTRACT NUMBER 23-519	DRAWING NUMBER A2.0
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SHEET NO. 7 OF 48

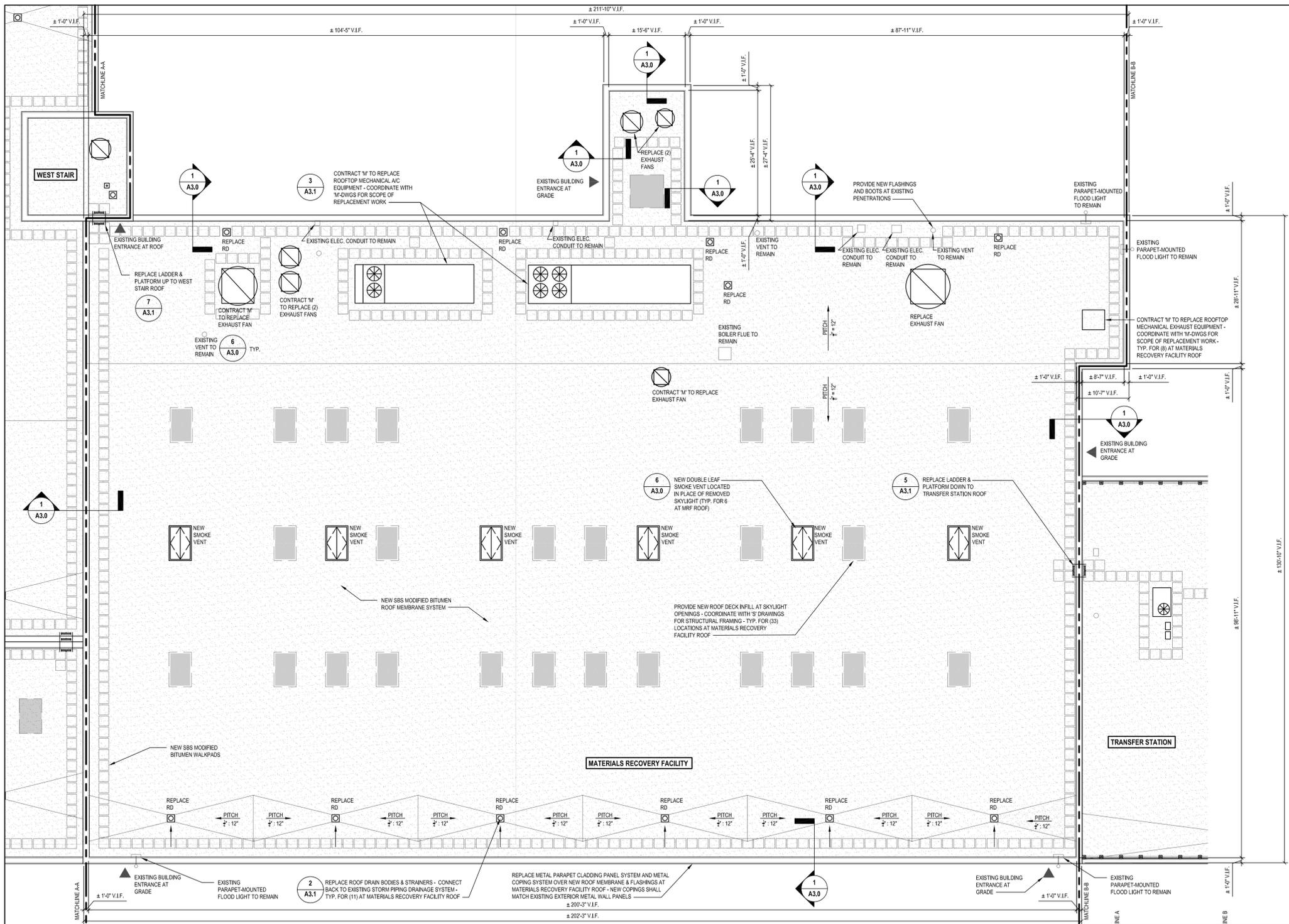
SCALE: AS NOTED
 DATE: 06/07/2024

DPW FILE NO. _____

REV. NO. _____

Roof, HVAC and Electrical Upgrades
 Daniel P. Thomas Material Recovery Facility
 Yonkers, New York

PARTIAL CONSTRUCTION ROOF PLAN - PAPER HOUSE & SHIPPING HOUSE
 93-02-A-279-0

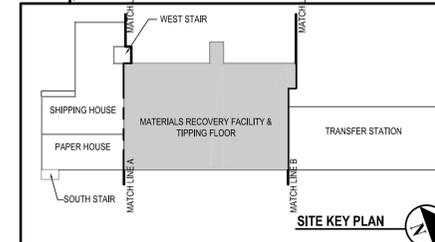


- CONSTRUCTION NOTES:**
- PROVIDE AND INSTALL NEW SBS MODIFIED BITUMEN MULTI-PLY ROOFING SYSTEM AT ALL ROOF AREAS. INSTALLATION SHALL INCLUDE ALL PILES, UNDERLYMENTS, RIGID INSULATION, COVER BOARD, FLASHINGS, SEALANTS AND MISCELLANEOUS ROOFING ACCESSORIES AS REQUIRED FOR A COMPLETE ROOFING SYSTEM AND WARRANTY BY MANUFACTURER. PROVIDE POSITIVE PITCH TOWARDS ROOF DRAINS AS INDICATED.
 - WHERE INDICATED, INFILL SKYLIGHT OPENINGS WITH NEW FRAMING AND ROOF DECK. COORDINATE WITH 'S' SHEETS FOR STRUCTURAL DESIGN AND DETAILING OF INFILL WORK.
 - WHERE INDICATED, INSTALL NEW SMOKE VENTS AT ROOF DECK OPENINGS WHERE SKYLIGHTS WERE REMOVED. INSTALL SMOKE VENTS WITH EXISTING FRAMING (CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD) ON MANUFACTURER'S CURBS. FURNISH SMOKE VENTS WITH SINGLE-LEAF OR DOUBLE-LEAF HATCH DOORS AS INDICATED, WITH 4-SIDED FALL-PROTECTION SAFETY GUARDS, AND WELDED WIRE FALL-PROTECTION NET.
 - PROVIDE AND INSTALL RETROFIT ROOF DRAIN BODIES, LINERS AND STRAINERS. RECONNECT DRAIN BODY BACK TO EXISTING PIPING.
 - CONTRACT 'M' SHALL INSTALL NEW MECHANICAL AIR CONDITIONING, VENTILATION, AND EXHAUST EQUIPMENT AS INDICATED. COORDINATE WITH 'M' SHEETS FOR EQUIPMENT SCHEDULES AND DETAILS. FLASHINGS AT EQUIPMENT CURBS OR OTHER PENETRATIONS SHALL BE INSTALLED BY CONTRACTOR 'G'.
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	NEW DOUBLE LEAF SMOKE VENT
	NEW SINGLE LEAF SMOKE VENT

Partial Roof Construction Plan - Materials Recovery Facility & Tipping Floor
 SCALE: 3/32"=1'-0"

IN CHARGE OF _____
 CHECKED BY _____
 MADE BY _____



REGISTERED ARCHITECT
 KENNETH R. GARDNER
 STATE OF NEW YORK
 026839

H 2 M architects + engineers

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 Plainfield, NJ 07064
 Howell, NJ 07731

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	ONT	ONT	BID SUBMISSION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
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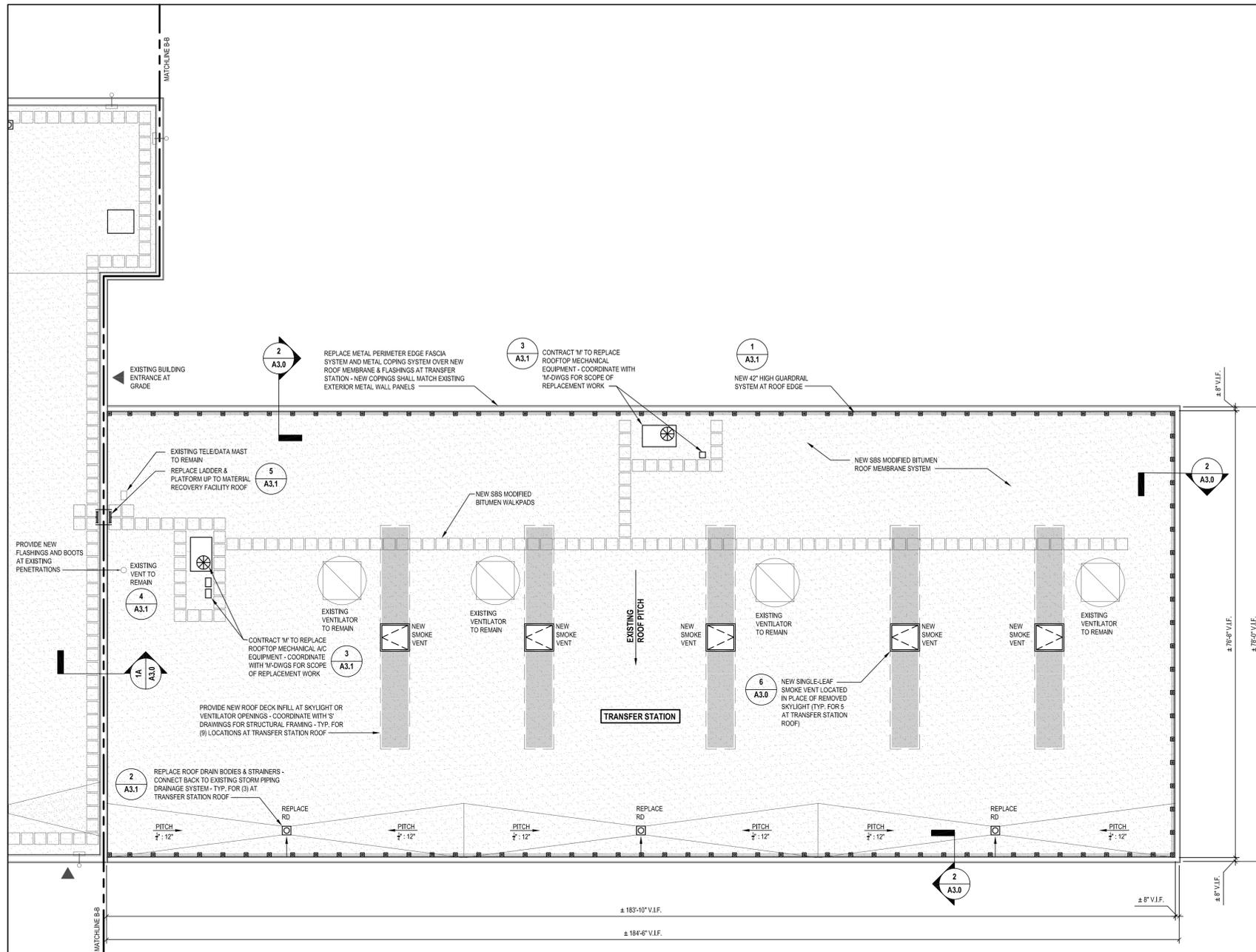
CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	DATE _____	DATE _____
SIGNATURE _____	SIGNATURE _____	TITLE _____	TITLE _____

WESTCHESTER COUNTY, NEW YORK
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 DIVISION OF ENGINEERING

CONTRACT NUMBER 23-519	DRAWING NUMBER A2.1
SHEET NO. 8 OF 48	
SCALE: AS NOTED DATE: 06/07/2024	
DPW FILE NO.	REV. NO.

Roof, HVAC and Electrical Upgrades
 Daniel P. Thomas Material Recovery Facility
 Yonkers, New York

PARTIAL CONSTRUCTION ROOF - MATERIALS RECOVERY FACILITY & TIPPING FLOOR 93-02-A-280-0

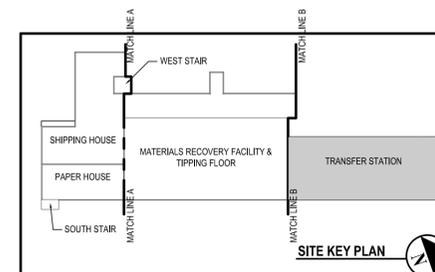


Partial Roof Construction Plan - Transfer Station
SCALE: 3/32"=1'-0"

CONSTRUCTION NOTES:

- PROVIDE AND INSTALL NEW SSS MODIFIED BITUMEN MULTI-PLY ROOFING SYSTEM AT ALL ROOF AREAS. INSTALLATION SHALL INCLUDE ALL PILES, UNDERLAYMENTS, RIGID INSULATION, COVER BOARD, FLASHINGS, SEALANTS AND MISCELLANEOUS ROOFING ACCESSORIES AS REQUIRED FOR A COMPLETE ROOFING SYSTEM AND WARRANTY BY MANUFACTURER. PROVIDE POSITIVE PITCH TOWARDS ROOF DRAINS AS INDICATED.
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	NEW SINGLE LEAF SMOKE VENT



REGISTERED ARCHITECT
KENNETH R. GARDNER
STATE OF NEW YORK
026839

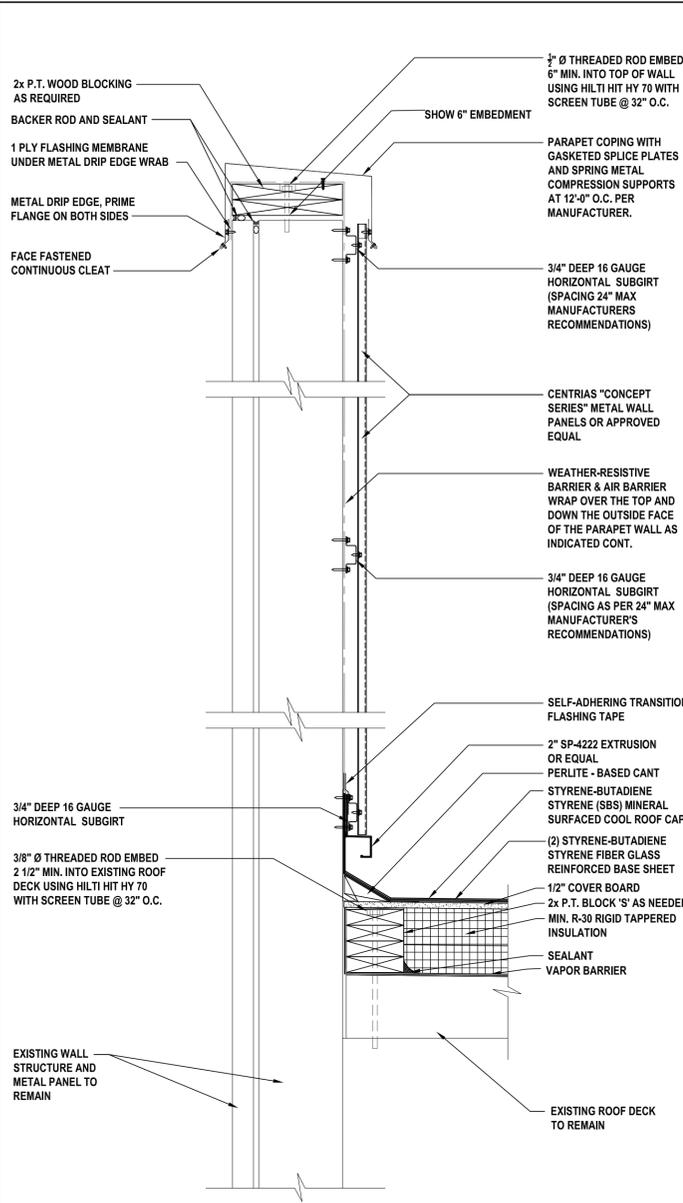
H 2 M architects + engineers

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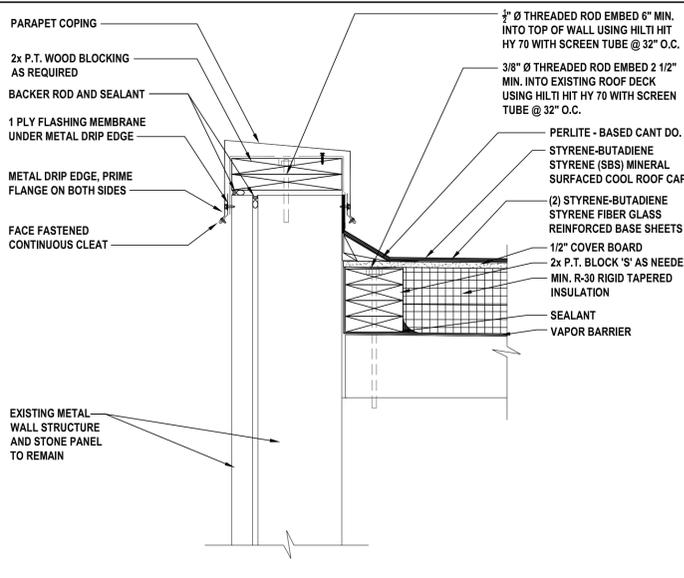
Mt. Kisco, NY 11747
Alderson, NY 12228
White Plains, NY 10604
New City, NY 10956
Plainfield, NJ 07064
Horseneck, NJ 07731

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR			PROJECT COORDINATOR	
NAME _____			NAME _____	
SIGNATURE _____			SIGNATURE _____	
TITLE _____			TITLE _____	
DATE _____			DATE _____	
WESTCHESTER COUNTY, NEW YORK				
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				
DIVISION OF ENGINEERING				
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				
PARTIAL CONSTRUCTION ROOF PLAN - TRANSFER STATION				
CONTRACT NUMBER	DRAWING NUMBER	SHEET NO. 9 OF 48		
23-519	A2.2	SCALE: AS NOTED		
DATE: 06/07/2024				
DPW FILE NO.	REV. NO.	93-02-A-281-0		

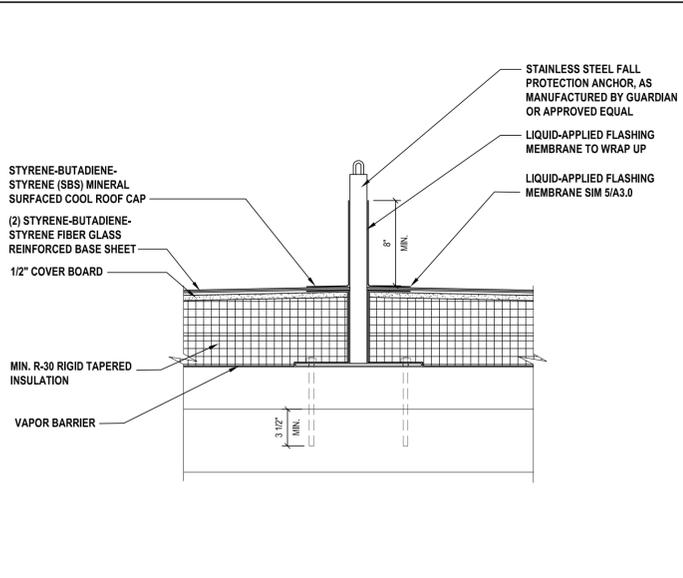
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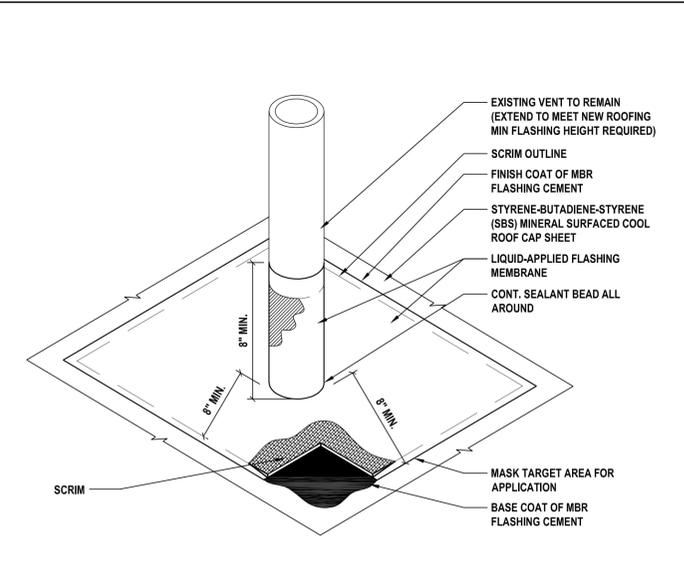
1 Typical Parapet Detail
SCALE: 1-1/2"=1'-0"



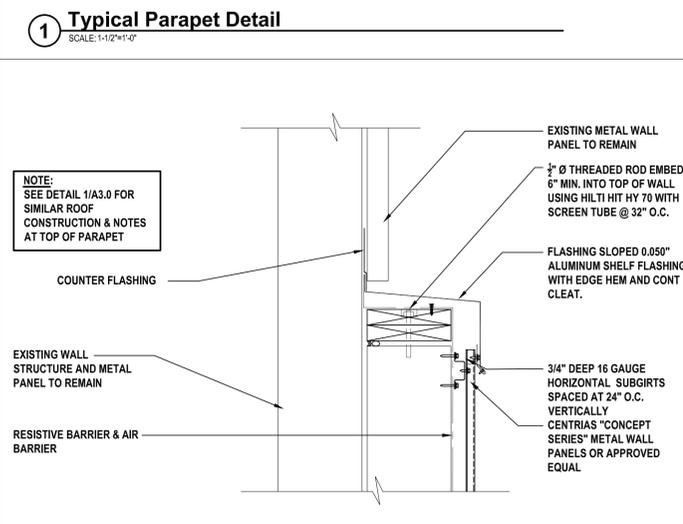
2 Typical Edge Detail
SCALE: 1-1/2"=1'-0"



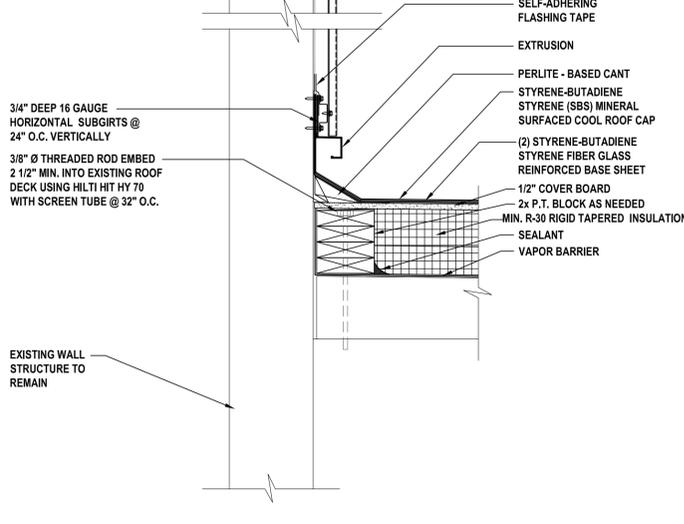
4 Fall Protection Tie-Offs Detail
SCALE: 1-1/2"=1'-0"



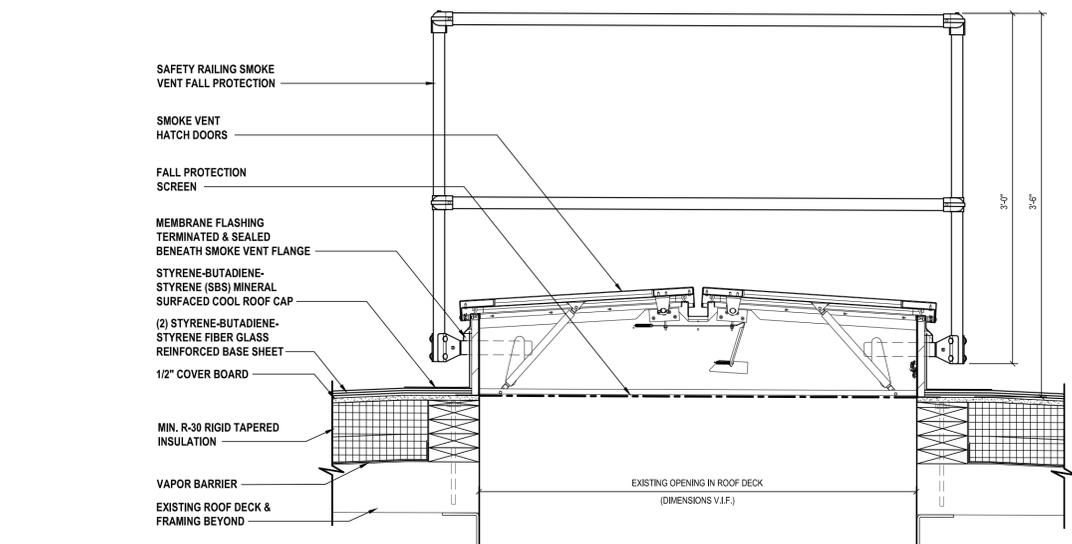
5 Typical Pipe Penetration Detail
SCALE: N.T.S.



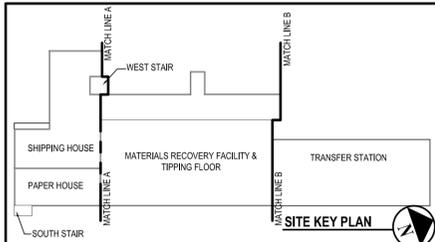
1A Typical Detail @ Wall Junction
SCALE: 1-1/2"=1'-0"



3 Typical Detail @ Wall Junction
SCALE: 1-1/2"=1'-0"



6 Smoke Hatch (with Railing) Detail
SCALE: 1-1/2"=1'-0"



REGISTERED ARCHITECT
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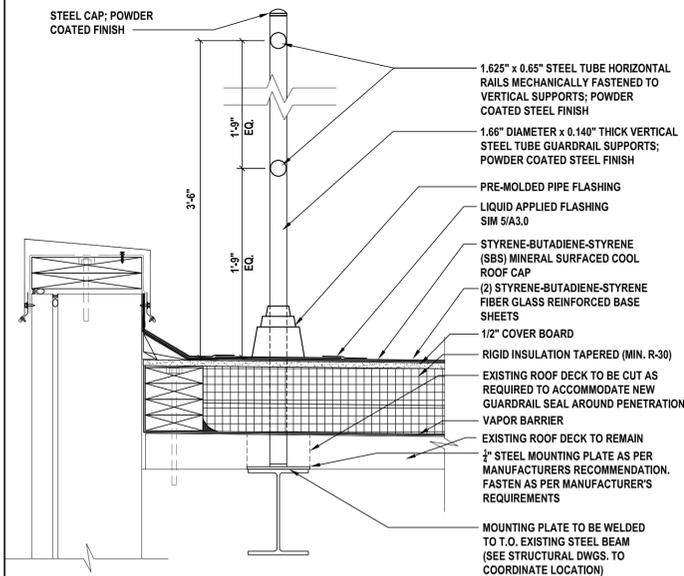
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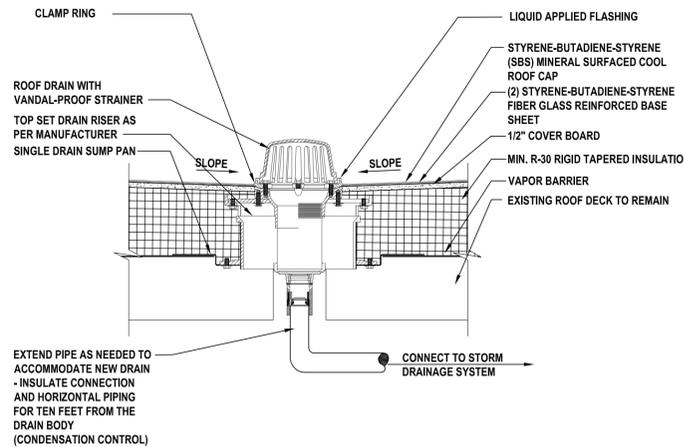
Melville, NY 11747
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CONTRACTOR		PROJECT COORDINATOR		
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SIGNATURE		SIGNATURE		
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	A3.0	
DIVISION OF ENGINEERING		SHEET NO. 10 OF 48		
Roof, HVAC and Electrical Upgrades		SCALE: AS NOTED		
Daniel P. Thomas Material Recovery Facility		DATE: 06/07/2024		
Yonkers, New York		DPW FILE NO.		
ROOF DETAILS		REV. NO.		
		93-02-A-282-0		

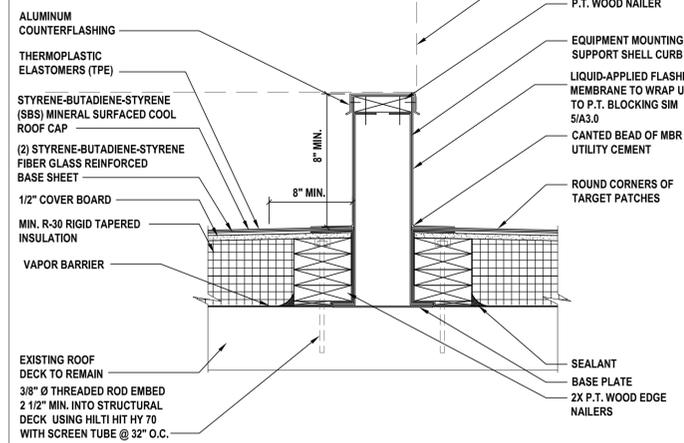
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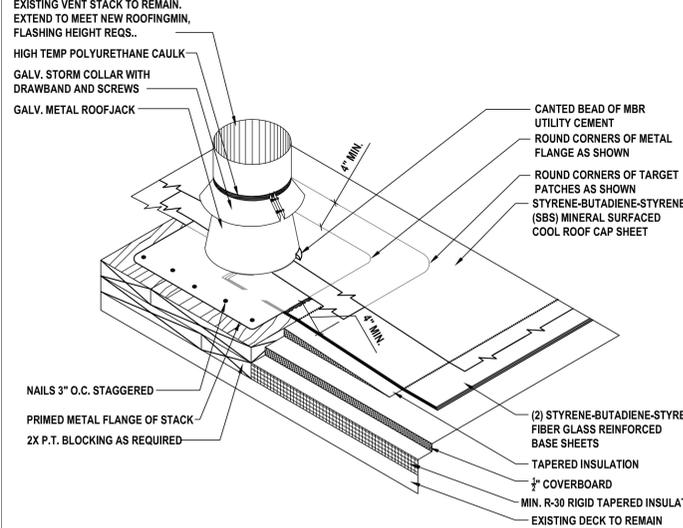
1 Typical Guardrail Detail
SCALE: 1-1/2"=1'-0"



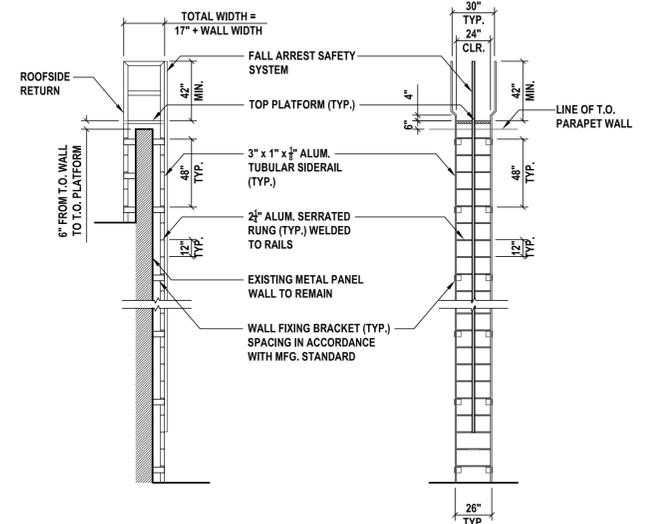
2 Typical Roof Drain & Overflow Drain Detail
SCALE: 1-1/2"=1'-0"



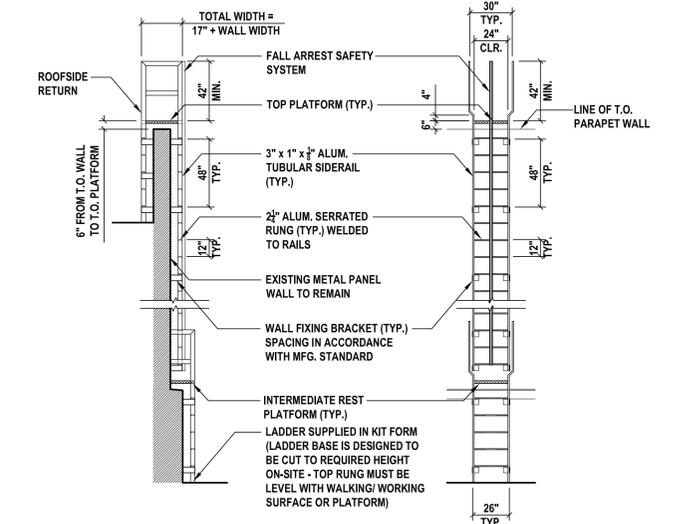
3 Typical Equipment Mounting Support
SCALE: 1-1/2"=1'-0"



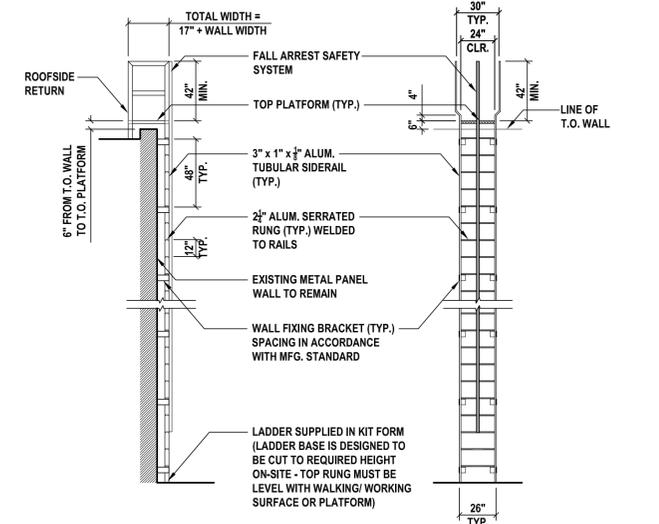
4 Typical Vent Stack Detail
SCALE: N.T.S.



5 Exterior Fixed Access Ladder w/ Platform
SCALE: N.T.S.



6 Exterior Fixed Access Ladder w/ Platform
SCALE: N.T.S.

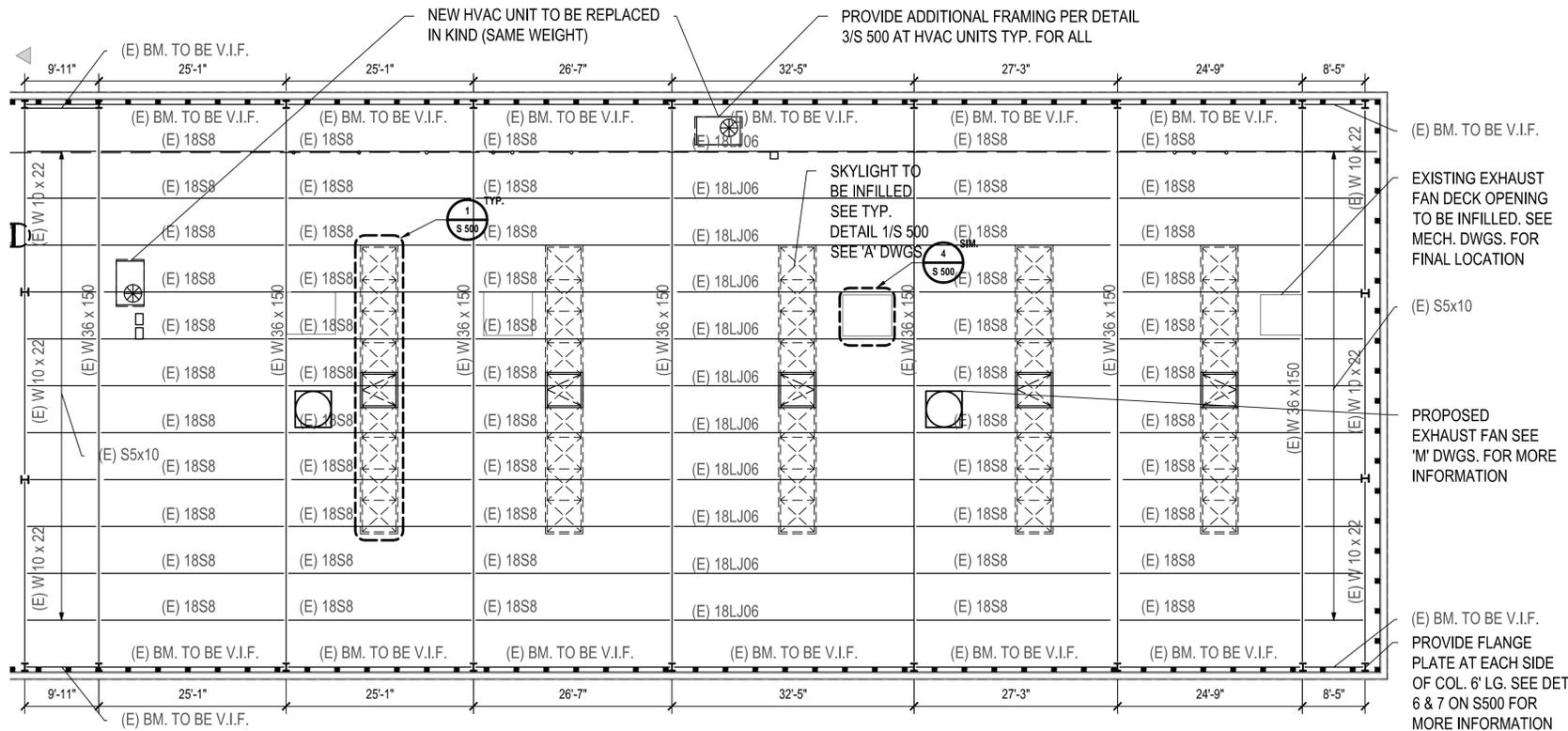


7 Exterior Fixed Access Ladder w/ Platform @ Stair Bulkhead
SCALE: N.T.S.

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CHECKED BY _____
MADE BY _____

1	10/30/2024	ONT	ONT	BID SUBMISSION
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RECORD DRAWING CERTIFICATION				
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PROJECT COORDINATOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York ROOF DETAILS
CONTRACT NUMBER 23-519		DRAWING NUMBER A3.1		SHEET NO. 11 OF 48
SCALE: AS NOTED		DATE: 06/07/2024		REV. NO.
DPW FILE NO.		93-02-A-283-0		

GENERAL NOTES:	DESIGN CRITERIA:	STRUCTURAL STEEL NOTES:	OPEN WEB STEEL BAR JOIST NOTES:	CONCRETE REINFORCING NOTES:																																																		
<p>1. SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE DRAWINGS.</p> <p>2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM THE WORK PROPERLY. ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS OF THE EXISTING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED INCLUDING BUT NOT LIMITED TO FABRICATION OF MATERIALS. SUCH DISCREPANCIES BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS SHALL NOT BE THE REASONS FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF THE WORK AND THE WORK SHALL BE PERFORMED AT NO EXTRA COST TO THE OWNER.</p> <p>3. ALL CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO THE EXISTING CONDITIONS AND LIMITATIONS PRIOR TO SUBMITTING THEIR PROPOSAL/BID. FAILURE TO VISIT THE SITE AND NOT FAMILIARIZING THEMSELVES WITH THE CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.</p> <p>4. THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF STRUCTURE AND WORKMEN DURING THE ENTIRE CONSTRUCTION PERIOD, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO: DESIGN AND INSTALLATION OF BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF RETAINING WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED, ANY DAMAGE TO THE STRUCTURE, IF OCCURRED, SHALL BE RECTIFIED TO THE ENTIRE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL SCHEDULE THE WORK IN CONSULTATION WITH THE OWNER AND IN SUCH A WAY AS TO MINIMIZE CONFLICT WITH ONGOING OPERATIONS OF THE BUILDING. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.</p> <p>5. IN CASE OF ANY DAMAGE TO THE CONSTRUCTION, THE CONTRACTOR SHALL REPAIR THE SAME TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.</p> <p>6. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DEMOLITION, ALTERATIONS REQUIRED OR INTERFERENCES NOT SHOWN ON THE DEMOLITION DRAWINGS FOR RESOLUTION. THE CONTRACTOR SHALL ALLOW 7 WORKING DAYS FOR RESOLUTION OF THE CONDITION UNLESS ADDITIONAL TIME IS STATED TO BE REQUIRED BY THE ENGINEER.</p> <p>7. TYPICAL DETAILS ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER OF CONFLICTS REGARDING APPLICABILITY OF TYPICAL DETAILS.</p> <p>8. DO NOT LOAD THE FINISHED SLAB ON GRADE OR ELEVATED SLABS WITH ERECTION EQUIPMENT. DO NOT STACK CONSTRUCTION MATERIALS ON DECK/SLABS. DO NOT CAUSE IMPACT LOADS TO DECK/SLAB DURING CONSTRUCTION.</p> <p>9. VERIFY AND COORDINATE THE LOCATION OF CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, AND WALL OPENINGS.</p> <p>10. PRINCIPAL OPENINGS THROUGH THE FRAMING AND SLABS ARE SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECTURAL AND MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE ALL REQUIRED OPENINGS AND PROVIDE FOR REQUIRED OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. VERIFY SIZE AND LOCATION OF OPENINGS WITH THE MECHANICAL CONTRACTOR. DEVIATIONS FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED PRIOR TO CONSTRUCTION/FABRICATION OF THE REQUIRED OPENINGS.</p> <p>11. LOADINGS FOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS AT THE TIME OF DESIGN. ANY CHANGES IN TYPE, SIZE OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.</p> <p>12. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS AND HOUSEKEEPING PADS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.</p> <p>13. CONTRACTOR IS RESPONSIBLE FOR PERFORMING A PRE-CONSTRUCTION SURVEY OF ALL ADJACENT STRUCTURES, NOTING THE EXISTING STRUCTURAL CONDITION, INCLUDING BUT NOT LIMITED TO: FLOOR AND ROOF ELEVATIONS, STRUCTURE PLUMBNESS, AND ANY VISIBLE DAMAGE. CONTRACTOR IS RESPONSIBLE FOR A FINAL CONDITION SURVEY OF ADJACENT BUILDINGS AFTER COMPLETION OF CONSTRUCTION ACTIVITIES TO DOCUMENT ANY CHANGES IN THE ADJACENT STRUCTURES RELATIVE TO THE PRE-CONSTRUCTION SURVEY.</p> <p>14. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING A VIBRATION AND MOTION MONITORING PLAN TO MONITOR EXISTING ADJACENT STRUCTURES FOR ANY VIBRATIONS AND MOVEMENT CAUSED BY CONSTRUCTION ACTIVITIES.</p> <p>15. EXISTING ADJACENT STRUCTURES ARE NOT TO BE UNDERMINED, USED FOR EQUIPMENT SUPPORT, OR USED FOR STORAGE OF EQUIPMENT OR MATERIALS, UNLESS SPECIFICALLY EVALUATED FOR SUCH USE AND WITH ADDITIONAL SHORING, BRACING, OR SUPPORT AS REQUIRED AND DOCUMENTED IN CONSTRUCTION DRAWINGS GENERATED FOR THE SPECIFIC DESIRED USE AND CONDITION AS PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.</p> <p>16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PROTECTION OF EXISTING ADJACENT STRUCTURES, YARDS, UTILITIES, AND PUBLIC RIGHTS-OF-WAY, IN ACCORDANCE WITH THE BUILDING CODE AND OSHA REQUIREMENTS.</p> <p>17. TO THE BEST OF THE ENGINEER'S AND SURVEYOR'S KNOWLEDGE, THERE ARE NO DESIGNATED LANDMARK STRUCTURES WITHIN 90 FEET OF THE EXTENTS OF THE PROJECT SITE LIMITS.</p> <p>18. THIS PROJECT IS NOT LOCATED WITHIN 200 FEET OF ANY METROPOLITAN TRANSPORTATION AUTHORITY (MTA) STRUCTURE OR FACILITY.</p> <p>19. ALL MATERIALS AND METHODS ARE SUBJECT TO SPECIAL INSPECTIONS AS REQUIRED BY THE BUILDING CODE OR AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.</p>	<p>DESIGN LOADS ARE IN ACCORDANCE WITH THE 2020 NEW YORK STATE BUILDING CODE WITH ALL INCORPORATED AMENDMENTS, LOCAL LAWS, AND BULLETINS.</p> <p>RISK CATEGORY: II</p> <p>1. DEAD LOADS ROOF LOAD: 20 PSF</p> <p>2. LIVE LOADS ROOF: 20 PSF</p> <p>3. SNOW LOADS GROUND SNOW LOAD: Pg = 30 PSF EXPOSURE FACTOR: Ce = 1.0 IMPORTANCE FACTOR: Ie = 1.1 THERMAL FACTOR: Ct = 1.0 FLAT ROOF SNOW LOAD: P_f = 23.1 PSF MINIMUM SNOW LOAD: P_m = 22 PSF RAIN ON SNOW SURCHARGE: P_s = 0 PSF TOTAL DESIGN SNOW LOAD W/O DRIFT: = 23.1 PSF (NON-REDUCIBLE)</p> <p>SNOW DRIFT @ LOW ROOF OF BALER BUILDING: = 132.1 PSF (L_w = 20ft)</p> <p>4. WIND LOADS BASIC WIND SPEED: 125 MPH EXPOSURE: B IMPORTANCE FACTOR I_w = 1.0 INTERNAL PRESSURE COEFFICIENT: C_{pi} = +0.18 (ENCLOSED BUILDING) *END ZONE WIDTH: 77.4 FT NET UPLIFT: -37.56 PSF</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>WIND LOADS</th> <th>EXPOSURE B</th> <th>ADJUSTMENT COEFFICIENT</th> <th>IMPORTANCE FACTOR</th> <th>ASD DESIGN WIND LOADS</th> </tr> </thead> <tbody> <tr> <td>MWFRS WALL (END ZONE)</td> <td>27.8 PSF</td> <td>x 1.0</td> <td>x 1.1</td> <td>= 30.6 PSF</td> </tr> <tr> <td>MWFRS WALL (INT. 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MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. ALL ITEMS SPECIFIED TO BE DESIGNED BY OTHERS SHALL BE DESIGNED TO WITHSTAND COMPONENT AND CLADDING LOADS UNLESS SPECIFICALLY NOTED OTHERWISE IN PLANS, SPECIFICATIONS OR BY RFI RESPONSE. WIND LOADS MAY BE REDUCED BASED ON INCREASED "EFFECTIVE AREA" WHEN CALCULATIONS ARE SUBMITTED AND REVIEWED BY ENGINEER PRIOR TO FINAL DESIGN SUBMISSION. SUBMITTAL SHALL INCLUDE EFFECTIVE AREA ASSUMPTIONS FOR EACH COMPONENT AND WIND LOAD CALCULATIONS USING PARAMETERS SPECIFIED HEREIN.</p> <p>5. SEISMIC CRITERIA: SITE CLASS: D IMPORTANCE FACTOR, I_e = 1.00 S_s = 0.295 S₁ = 0.061 F_a = 1.56 F_v = 2.40 S_{ms} = 0.462 S_{m1} = 0.147 S_{ds} = 0.308 S_{d1} = 0.098</p> <p>SEISMIC DESIGN CATEGORY: B ANALYSIS METHOD: EQUIVALENT LATERAL FORCE PROCEDURE</p> <p>SEISMIC LATERAL FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS R = 3.0 Ω = 3.0 Cd = 3.0</p> <p>6. GEOTECHNICAL INFORMATION: GEOTECHNICAL INFORMATION AND VALUES BELOW ARE PRESUMED PER THE NYS BC. SOIL BEARING CAPACITY: 2000 PSF FROST DEPTH: 3 FT SUBGRADE MODULUS: 150 PCI</p>	WIND LOADS	EXPOSURE B	ADJUSTMENT COEFFICIENT	IMPORTANCE FACTOR	ASD DESIGN WIND LOADS	MWFRS WALL (END ZONE)	27.8 PSF	x 1.0	x 1.1	= 30.6 PSF	MWFRS WALL (INT. ZONE)	18.4 PSF	x 1.0	x 1.1	= 20.3 PSF	MWFRS ROOF	14.5 PSF	x 1.0	x 1.1	= 16.0 PSF	WALLS (END ZONE)	31.5 PSF	x 1.0	x 1.1	= 34.7 PSF	WALLS (INT. ZONE)	42.2 PSF	x 1.0	x 1.1	= 46.4 PSF	ROOF (END ZONE)	12.8 PSF	x 1.0	x 1.1	= 14.1 PSF	ROOF (INT. ZONE)	-52.9 PSF	x 1.0	x 1.1	= -58.2 PSF	ROOF (CORNER ZONE)	12.8 PSF	x 1.0	x 1.1	= 14.1 PSF	ROOF (CORNER ZONE)	-79.6 PSF	x 1.0	x 1.1	= -87.6 PSF	<p>1. DETAIL AND ERECT STRUCTURAL STEEL ELEMENTS IN ACCORDANCE WITH THE FOLLOWING: A. AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. B. AISC MANUAL OF STEEL CONSTRUCTION. C. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. D. AWS STRUCTURAL WELDING CODE, D1.1.</p> <p>2. PROVIDE STRUCTURAL STEEL OF THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTED OTHERWISE: A. STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A 992, Fy = 50 KSI B. EDGE ANGLES, BENT PLATES, HANGERS AND BRACES: ASTM A 36, Fy = 36 KSI C. STRUCTURAL PIPE: ASTM A 53, GRADE B, TYPE E OR S, Fy = 46 KSI D. HOLLOW STRUCTURAL SHAPES: ASTM A 500, GRADE B, Fy = 46 KSI E. BASE PLATES AND MISCELLANEOUS STEEL PLATES: ASTM A 36, Fy = 36 KSI F. ANCHOR RODS: ASTM F 1554, GRADE 36 U.N.O.</p> <p>3. CONNECTION MATERIALS: A. BEAM-COLUMN STIFFENER PLATES AND DOUBLER PLATES TO MATCH THE GRADE STEEL OF STRUCTURAL ELEMENT. B. HIGH STRENGTH BOLTS: ASTM A 325 OR A 490, SEE NOTE D. C. HARDENED STEEL WASHERS: ASTM F 436 D. CONNECTION DESIGNER SHALL BE CONSISTENT WITH BOLT SIZE AND GRADE THROUGHOUT JOB AT SIMILAR CONNECTIONS. ONLY ONE GRADE OF STEEL BOLT SHALL BE USED FOR ENTIRE CONSTRUCTION FOR EACH BOLT SIZE SPECIFIED AND INSTALLED.</p> <p>4. WELD MINIMUM SIZE AND STRENGTH: A. PROVIDE MINIMUM SIZE OF FILET WELDS AS SPECIFIED IN TABLE J2.4 OF THE AISC MANUAL. B. PROVIDE MINIMUM EFFECTIVE THROAT THICKNESS OF PARTIAL PENETRATION GROOVE WELDS AS SPECIFIED IN TABLE J2.3 OF THE AISC MANUAL. C. DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER ELEMENT JOINED, ON ALL SHOP AND FIELD WELDS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. D. WHERE CONNECTIONS ARE NOTED ON DRAWINGS AS MOMENT CONNECTIONS, PROVIDE WELDS TO DEVELOP FULL FLEXURAL CAPACITY OF THE LESSER MEMBER. E. PROVIDE ELECTRODES FOR FIELD OR SHOP WELDING THAT CONFORM TO ASTM A 233 (CLASS 70). F. ALL WELDS ARE CONTINUOUS FOR THE FULL LENGTH OF THE CONNECTION UNLESS NOTED OTHERWISE ON DRAWINGS.</p> <p>5. PROVIDE MINIMUM OF TWO BOLTS PER CONNECTION. PROVIDE MINIMUM BOLT DIAMETER OF 3/4 INCH.</p> <p>6. PROVIDE BOLTS, NUTS AND WASHERS THAT ARE HOT DIP GALVANIZED ACCORDING TO ASTM A 153, CLASS C WHEN USED TO CONNECT STEEL ELEMENTS THAT ARE HOT DIP GALVANIZED AFTER FABRICATION.</p> <p>7. SUBMIT CALCULATIONS FOR CONNECTION DESIGNS NOT FULLY DETAILED ON DRAWINGS. DESIGN CONNECTIONS UNDER SUPERVISION OF REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE PROJECT IS BEING CONSTRUCTED, EMPLOYED BY THE STEEL FABRICATOR. DESIGN CALCULATIONS TO BE SEALED BY FABRICATOR'S REGISTERED PROFESSIONAL ENGINEER. SHOP DRAWINGS SUBMITTED WITHOUT COMPLETE DESIGN CALCULATIONS WILL NOT BE REVIEWED.</p> <p>8. PROVIDE SIMPLE SHEAR CONNECTIONS FOR STEEL CONNECTIONS NOT FULLY DETAILED BY UTILIZING HIGH STRENGTH BEARING BOLTS IN SINGLE OR DOUBLE SHEAR. PROVIDE DOUBLE ANGLE BOLTED CONNECTIONS WHERE POSSIBLE. UNLESS LARGER REACTION IS SHOWN ON DRAWINGS, CONNECTION DESIGNER SHALL DESIGN SHEAR CONNECTIONS TO RESIST THE REACTION RESULTING FROM THE MAXIMUM ALLOWABLE UNIFORM LOAD OF THE BEAM FOUND IN THE AISC SPECIFICATION BEING APPLIED ALONG ITS FULL LENGTH. A. ADD TO REACTIONS LISTED ABOVE, LOADS OR REACTIONS OF MEMBERS SUPPORTED BY BEAM WITHIN THREE FEET OF BEAM END AND VERTICAL COMPONENTS OF FORCES IN BRACE MEMBERS FRAMING INTO BEAM.</p> <p>9. STEEL FABRICATION: A. FABRICATE AND ASSEMBLE STRUCTURAL MEMBERS/ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE. B. SPlicing OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE A/E. C. FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS. D. CONFORM TO THE AISC CODE OF STANDARD PRACTICE FOR ERECTION TOLERANCES. FIELD MODIFICATION TO STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE A/E. E. CLEAN STEEL OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP, OR WELDING. F. DO NOT CUT STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR REVIEW AND APPROVAL OF THE ARCHITECT/ENGINEER. G. SHOP PRIME ALL MEMBERS NOT SCHEDULED FOR GALVANIZING WITH RED OXIDE PRIMER UNLESS NOTED OTHERWISE. DO NOT PAINT AT LOCATIONS OF FIELD WELDS.</p> <p>10. HOT DIP GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL AND THEIR CONNECTIONS PERMANENTLY EXPOSED TO THE OUTSIDE. ITEMS INCLUDED BUT NOT LIMITED TO: A. SHELF ANGLES. B. EMBEDDED PLATES IN CONCRETE C. EXAMINE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR OTHER ITEMS THAT REQUIRE HOT DIPPED GALVANIZATION.</p> <p>11. PROVIDE GROUT FOR BASE PLATES THAT IS NON-SHRINK, NON-METALLIC GROUT WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 6000 PSI.</p> <p>12. FURNISH STEEL SHOP DRAWINGS FOR ARCHITECT'S AND STRUCTURAL ENGINEER'S REVIEW PRIOR TO FABRICATION. INCLUDE WELDING PROCEDURES, TESTING PROGRAMS FOR WELDING AND HIGH STRENGTH BOLTING, COATING MATERIAL AND ERECTION SEQUENCE ON SHOP DRAWINGS. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER AND ALL DRAWINGS SHALL BE SIGNED AND SEALED BY SAID ENGINEER REGISTERED IN THE STATE OF NEW YORK.</p> <p>13. MILL STEEL COLUMN ENDS TO FIT FLUSH WITH BASE PLATE, CAP PLATE AND END PLATES. FIELD ASSEMBLY OF THESE STEEL ELEMENTS TO THE COLUMNS IS PROHIBITED.</p> <p>14. WHERE A GIRDER SUPPORTS A COLUMN OR RUNS OVER A COLUMN, PROVIDE STIFFENER PLATES EACH SIDE OF THE BEAM WEB EQUAL IN THICKNESS TO COLUMN FLANGES. STIFFENER PLATES SHALL OCCUR DIRECTLY UNDER OR OVER COLUMN FLANGES (OR WEBS IF NECESSARY). MILL STIFFENER PLATES FOR BEARING AT TOP AND BOTTOM OF PLATES.</p> <p>15. WHERE SHELF ANGLES ARE ATTACHED TO SPANDREL BEAMS, SHIMS SHALL BE PROVIDED FOR VERTICAL ADJUSTMENT AND SLOTTED HOLES FOR HORIZONTAL ADJUSTMENT.</p> <p>16. PROVIDE TEMPORARY SHORING OR BRACING DURING CONSTRUCTION PHASE PRIOR TO COMPLETING CONNECTIONS AND INSTALLATION OF FLOOR SLAB. TEMPORARY CONSTRUCTION BRACING OF THE STRUCTURAL STEEL FRAME IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL AFTER THE PERMANENT BRACING SYSTEM HAS BEEN COMPLETED.</p> <p>17. HEADED STUDS (SHEAR AND ANCHOR) AND DEFORMED ANCHORS: A. PROVIDE HEADED STUDS (SHEAR AND ANCHOR) MADE OF MATERIAL CONFORMING TO ASTM A 108. B. PROVIDE DEFORMED ANCHORS MADE OF MATERIAL CONFORMING TO ASTM A 496. C. WELD STUDS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. MANUAL ARC (STICK) WELDING OF HEADER STUDS AND/OR DEFORMED ANCHORS IS NOT ALLOWED.</p> <p>18. SURFACE PREPARE ALL RUSTED STEEL ACCORDING TO THE FOLLOWING STANDARDS A. SSPC-SP 2, "HAND TOOL CLEANING" B. SSPC-SP 3, "POWER TOOL CLEANING"</p> <p>19. IMMEDIATELY AFTER SURFACE PREPARATION, APPLY PRIMER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT A RATE RECOMMENDED BY SSPC TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 1.5 MILS (0.038 MM). USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES. 1. STRIPE PAINT CORNERS, CREVICES, BOLTS, WELDS, AND SHARP EDGES. 2. APPLY TWO COATS OF SHOP PAINT TO SURFACES THAT ARE INACCESSIBLE AFTER ASSEMBLY OR ERECTION. CHANGE COLOR OF SECOND COAT TO DISTINGUISH IT FROM THE FIRST.</p>	<p>1. JOISTS SLOPE UNIFORMLY FROM ELEVATIONS NOTED.</p> <p>2. BEAMS PARALLEL TO JOISTS SHALL BE 2 1/2" ABOVE BEAMS PERPENDICULAR TO JOISTS U.O.N.</p> <p>3. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.</p> <p>4. COORDINATE SIZE AND LOCATION OF OPENINGS FOR ROOF TOP UNITS (RTU) WITH MECHANICAL DRAWINGS.</p> <p>5. JOIST BRIDGING SHALL BE DESIGNED AND INSTALLED PER SJI SPECIFICATIONS. BRIDGING INDICATED ON DRAWINGS IS IN ADDITION TO THAT REQUIRED BY THE SJI SPECIFICATIONS. JOIST BRIDGING SHALL BE DESIGNED TO RESIST A NET UPLIFT LOAD AS INDICATED IN THE 'WIND NET UPLIFT TABLE' OR WITHIN ROOF PLAN NOTES.</p> <p>6. PROVIDE OPEN WEB, UNDERSLUNG, PARALLEL CHORD JOISTS AND JOIST GIRDERS UNLESS NOTED OTHERWISE ON THE DRAWINGS.</p> <p>7. DESIGN, FABRICATE, AND ERECT OPEN WEB STEEL JOISTS AND JOIST GIRDERS TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE, LATEST EDITION.</p> <p>8. SHOP DRAWINGS FOR JOISTS, JOIST ACCESSORIES AND JOIST GIRDERS TO BE PREPARED BY THE JOIST MANUFACTURER'S DETAILERS.</p> <p>9. PROVIDE 2-1/2 INCH MINIMUM BEARING ON STRUCTURAL STEEL FOR K-SERIES JOISTS OR PROVIDE BEARING LENGTHS PER STEEL JOIST INSTITUTE REQUIREMENTS UNLESS GREATER LENGTHS ARE SHOWN ON DRAWINGS.</p> <p>10. ALL HANGERS SUPPORTING MECHANICAL EQUIPMENT, SPRINKLER LINES, ETC., FROM THE CHORD OF THE STEEL JOISTS SHALL BE LOCATED AT THE PANEL POINTS OF THE JOISTS OR THE JOIST CHORD SHALL BE REINFORCED TO SUPPORT THE ADDITIONAL LOAD. HANGERS SHALL NOT BE ATTACHED TO THE EDGE OF THE CHORD ANGLES. HANGERS SHALL BE CENTERED ON THE JOIST CHORD.</p> <p>11. ALL K-SERIES JOISTS SHALL HAVE A MIN. OF 2 1/2 INCH DEEP BEARING SEATS. SLOPED JOISTS SHALL HAVE DEEPER SEATS</p> <p>12. PROVIDE CAMBER FOR ALL JOISTS. DEPTH OF CAMBER TO BE IN ACCORDANCE THE STEEL JOIST INSTITUTE SPECIFICATIONS.</p> <p>13. JOIST-GIRDER SUPPLIER SHALL PROVIDE BOTTOM CHORD BRACING AS REQUIRED PER STEEL JOIST INSTITUTE FOR STABILITY AND AS REQUIRED BY DESIGN.</p> <p>14. ALL JOISTS TO BEAR AT TOP CHORD PANEL POINTS OF THE JOIST GIRDER UNLESS NOTED OTHERWISE.</p> <p>15. JOIST GIRDERS TO BE DESIGNED FOR A NET UPLIFT LOAD AS INDICATED ON PLANS.</p>	<p>1. PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI 315 AND ACI 318.</p> <p>2. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL IN ACCORDANCE WITH ASTM A 615, GRADE 60, U.O.N.</p> <p>3. COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDMENTS AND ANCHOR RODS. SET ANCHOR RODS WITH A TEMPLATE. SECURELY ATTACH EMBEDDED ITEMS TO FORMWORK OR REINFORCING.</p> <p>4. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT. PROVIDE STANDARD 90-DEGREE HOOKS IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.</p> <p>5. MAINTAIN THE FOLLOWING CONCRETE COVER FOR REINFORCING STEEL, UNLESS NOTED OTHERWISE: A. CONCRETE CAST AGAINST EARTH: 3 INCHES B. CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: 2 INCHES NO. 6 BARS AND LARGER: 1 1/2 INCHES NO. 5 BARS AND SMALLER: 1 1/2 INCHES C. CONCRETE NOT EXPOSED TO WEATHER AND NOT IN CONTACT WITH THE GROUND: SLABS AND WALLS: NO. 14 BARS AND LARGER: 1 1/2 INCHES NO. 11 BARS AND SMALLER: 3/4 INCHES BEAMS, COLUMNS, PEDESTALS, AND GRADE BEAMS: ALL BAR SIZES: 1 1/2 INCHES</p> <p>6. DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY STRUCTURAL ENGINEER.</p> <p>7. WHEN SPECIFICALLY APPROVED, PROVIDE WELDED REINFORCEMENT IN ACCORDANCE WITH ASTM A 706 GRADE 60, USE LOW HYDROGEN ELECTRODES FOR WELDING OF REINFORCEMENT IN CONFORMANCE WITH "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL", AMERICAN WELDING SOCIETY, AWS D12.1. PROVIDE ASTM GRADE 40 REINFORCING BARS WHERE DETAILED BARS ARE TO BE WELDED TO A STEEL SECTION.</p> <p>8. WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF MAIN REINFORCING.</p> <p>9. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90-DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DETAILS.</p>
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<p>DELEGATED DESIGN NOTES</p> <p>1. ANY BUILDING COMPONENTS WHERE DESIGN IS DELEGATED TO AN ENTITY SEPARATE FROM THE ENGINEER/ARCHITECT OF RECORD WITHIN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE DESIGNED IN ACCORDANCE WITH MINIMUM LOADS SPECIFIED ABOVE. ANY DEVIATION FROM NOTED LOAD VALUES SHALL BE SUBMITTED BY CONTRACTOR FOR REVIEW AND APPROVAL TO EOR PRIOR TO SUBMITTING SHOP DRAWINGS AND CALCULATIONS.</p> <p>2. ADDITIONAL DESIGN LOADS INDICATED ON STRUCTURAL DRAWINGS SHALL BE IDENTIFIED AS FOLLOWS: DL = DEAD LOAD LL = LIVE LOAD WL = WIND LOAD EQ = SEISMIC LOAD Lr = ROOF LIVE LOAD SL = SNOW LOAD</p> <p>DESIGN CODES/REFERENCE FOR DESIGN AND DELEGATED DESIGN</p> <p>NOTE THE MOST UP TO DATE VERSIONS OF ALL CODES LISTED BELOW MUST BE USED:</p> <ol style="list-style-type: none"> AISI COLD-FORMED STEEL DESIGN MANUAL AWS D1.4 - STRUCTURAL WELDING CODE - STEEL ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ANSI / AISC 360, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. STRUCTURAL WELDED WIRE REINFORCEMENT MANUAL OF STANDARD PRACTICE, WIRE REINFORCEMENT INSTITUTE ACI 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES SJI RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION. STRUCTURAL WELDED WIRE REINFORCEMENT MANUAL OF STANDARD PRACTICE, WIRE REINFORCEMENT INSTITUTE LIVE LOAD REDUCTION ON SUPPORTING ELEMENTS IN ACCORDANCE WITH BC-NYS 																																																						
<p>IN CHARGE OF _____</p> <p>CHECKED BY _____</p> <p>MADE BY _____</p>																																																						
<p>1133 Westchester Avenue Suite N-210 White Plains, NY 10605 P: (914) 358-5623 F: (914) 358-5624</p> <p>Mohawk, NY 11747 Albany, NY 12205 White Plains, NY 10605 New City, NY 10955 Parsippany, NJ 07054 Horseshoe, NJ 07731</p>																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td> <td>10/30/2024</td> <td>JUN</td> <td>DJA</td> <td>BID SUBMISSION</td> </tr> <tr> <th>REVISION NUMBER</th> <th>DATE</th> <th>MADE BY</th> <th>APP'D BY</th> <th>REVISION</th> </tr> </table>					1	10/30/2024	JUN	DJA	BID SUBMISSION	REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION																																								
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<p>SHEET NO. 12 OF 48 DWG FILE NO. 93-02-S-284-0</p>																																																						
<p>GENERAL NOTES</p>																																																						



STEEL FRAMING PLAN NOTES:

1. TOP OF STEEL SHALL MATCHING EXISTING TOP OF STEEL ELEVATION. CONTRACTOR TO V.I.F.
2. REFER TO DETAILS ON S500 FOR FRAMED OPENINGS.
3. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL PRIME CONTRACTORS INCLUDING, BUT NOT LIMITED TO, INSTALLATION OF OPENINGS, DEPRESSIONS, CAST IN COMPONENTS, ETC.
4. COORDINATE LOCATIONS OF ROOF DECK OPENINGS AND SLAB INFILL WITH ARCHITECTURAL AND MECHANICAL DWGS.
5. CONTRACTOR SHALL REPLACE ALL DECKING FOUND TO BE DETERIORATED WITH 1.5B 18 GA. ROOF DECK AS PER DETAIL 1/S 100. DAMAGED DECK LOCATIONS SHOWN ON THESE DRAWINGS HAVE BEEN DETERMINED FROM INSPECTION FROM BELOW THE DECK AND ARE SHOWN ON S103. IF ADDITIONAL DAMAGE IS OBSERVED FROM THE TOP SIDE OF THE DECK LARGER AREAS OF DECK MAY NEED TO BE REMOVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING ALL UNFORSEEN AND FORSEEN TOP SIDE CONDITIONS TO THE E.O.R. TO DETERMINE IF REPLACEMENT IS REQUIRED.
6. DETAIL 3/S 500 SHALL BE UTILIZED FOR NEW UNIT SUPPORTS WHERE EXISTING SUPPORTS DO NOT ALIGN WITH NEW UNIT EDGES. CONTRACTOR SHALL REMOVE EXISTING SUPPORTS AS NECESSARY TO ALLOW FOR NEW SUPPORT INSTALLATION IF IN CONFLICT.

Roof Framing Plan (Transfer Station)
SCALE: 3/32"=1'-0"

IN CHARGE OF _____
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MADE BY _____

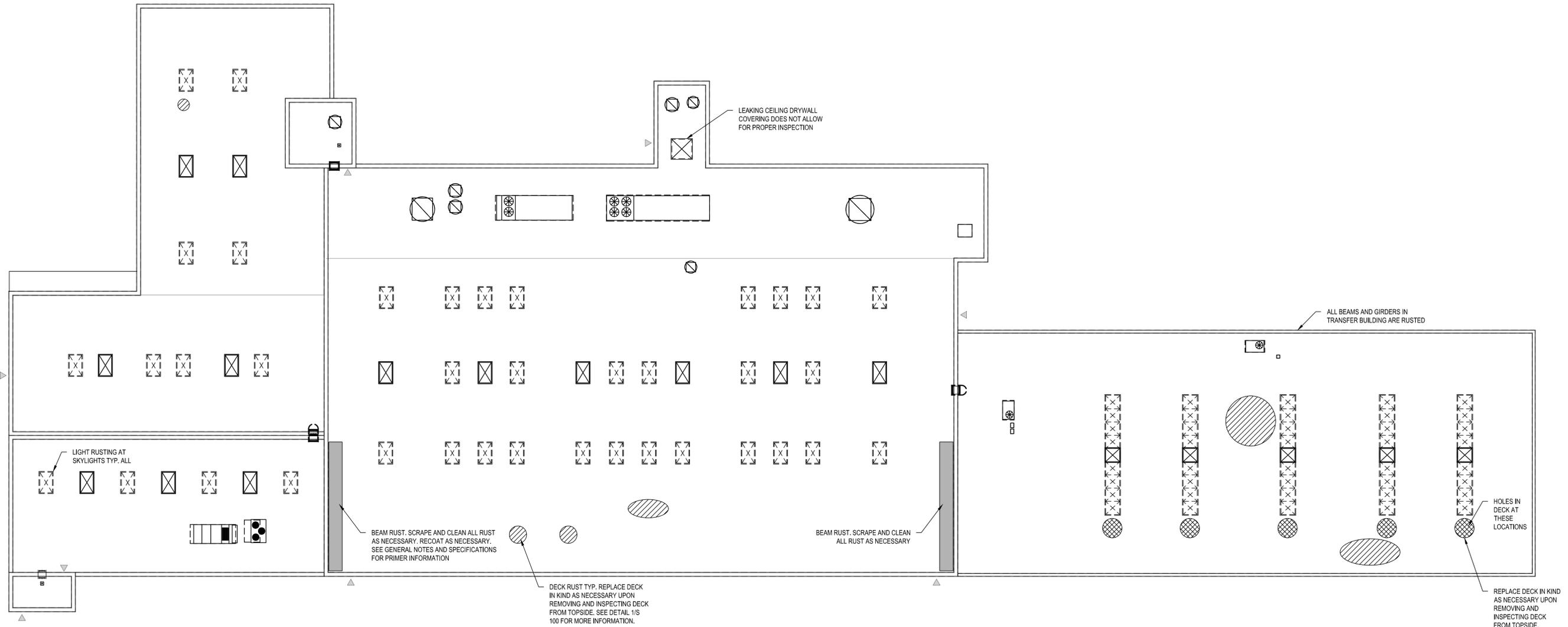
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Plattsburgh, NY 12054
Horseneck, NJ 07731

STATE OF NEW YORK
DANIEL J. AIELLO
LICENSED PROFESSIONAL ENGINEER
100515

1	10/30/2024	JUN	DJA	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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NAME	NAME	DATE		
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TITLE	TITLE			
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	S 102	
DIVISION OF ENGINEERING		SHEET NO. 15 OF 48		
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York		SCALE: AS NOTED DATE: 06/07/2024		
ROOF FRAMING PLAN (TRANSFER STATION)		DPW FILE NO.	REV. No.	
		93-02-S-287-0		



NOTES:

- CONTRACTOR TO CARRY AN ALLOWANCE OF 8% OF TOAL ROOF AREA TO BE REPLACED FOR BIDDING PURPOSES AND PROVIDE A UNIT COST FOR SAID WORK TO PROVIDE CREDITS & CHANGE ORDERS AS DEEMED NECESSARY TO THE OWNER. THE CONTRACTOR SHALL NOT REPLACE DECKING UNLESS DIRECTED BY THE E.O.R. TO DO SO. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE E.O.R. TO INSPECT THE ROOF DECK PERIODICALLY DURING THE ROOF REPLACEMENT PROJECT.
- ALL RUST LOCATIONS LOCATED ON THESE PLANS SHALL BE SCRAPED CLEANED AND PAINTED

Structural Damage Locations

SCALE: 1/16"=1'-0"

IN CHARGE OF _____
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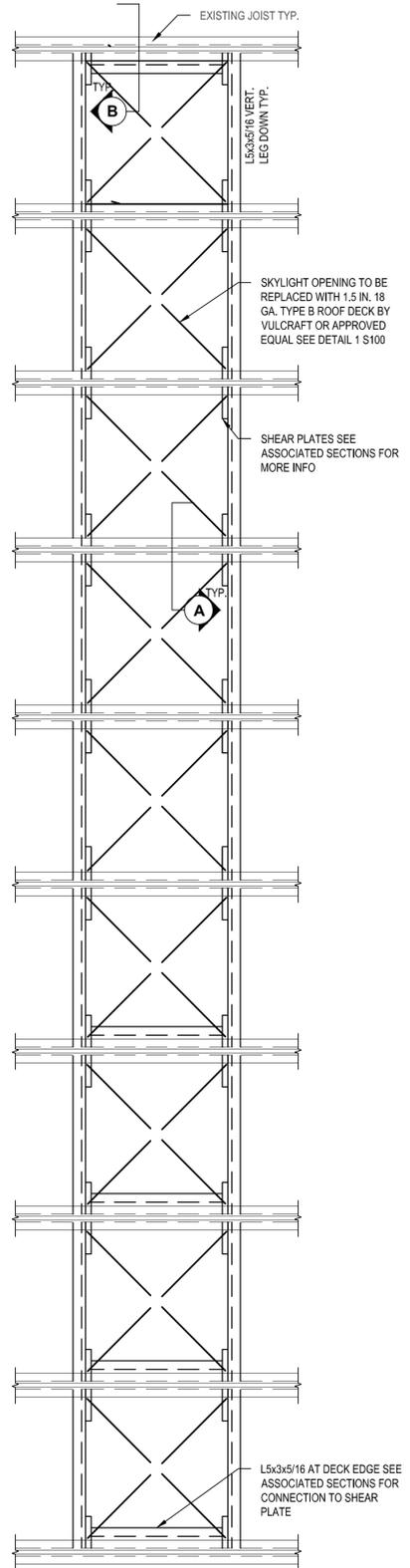
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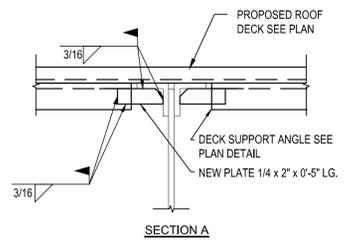
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 Howell, NJ 07731

STATE OF NEW YORK
 DANIEL J. AIELLO
 LICENSED PROFESSIONAL ENGINEER
 100515

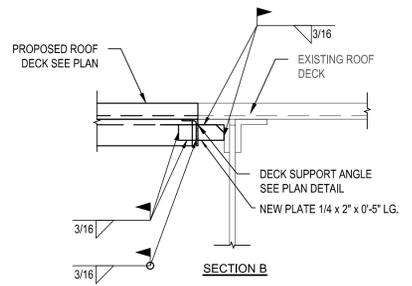
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NAME	NAME	DATE		
SIGNATURE	SIGNATURE			
TITLE	TITLE			
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER	DRAWING NUMBER	
		23-519	S 103	
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York		SHEET NO. 16 OF 48	SCALE: AS NOTED DATE: 06/07/2024	
STRUCTURAL DAMAGE LOCATIONS		DPW FILE NO. 93-02-S-288-0	REV. No.	



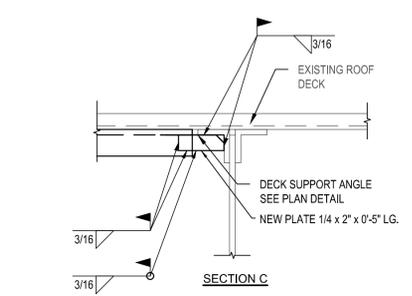
1 Long Skylight Infill Plan
SCALE: 3/4"=1'-0"



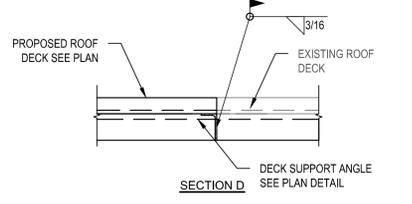
SECTION A



SECTION B

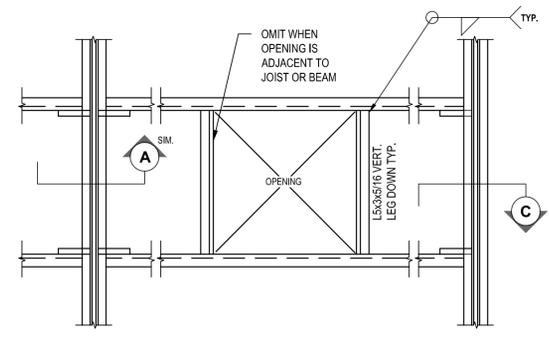


SECTION C

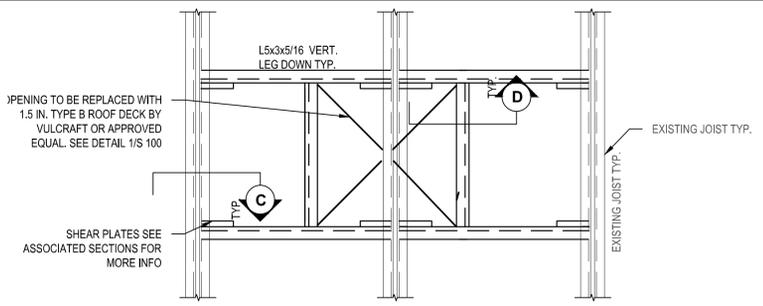


SECTION D

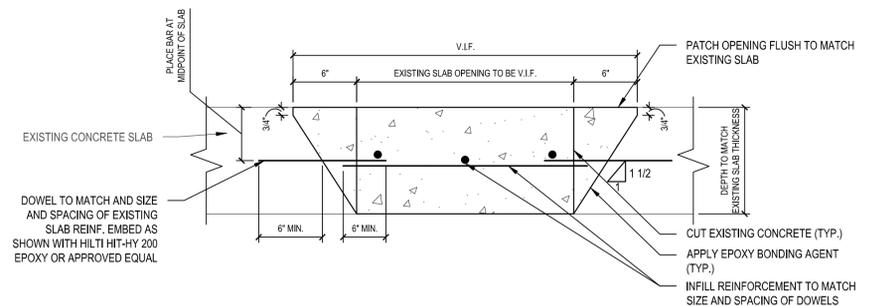
2 Infill Sections
SCALE: 3/4"=1'-0"



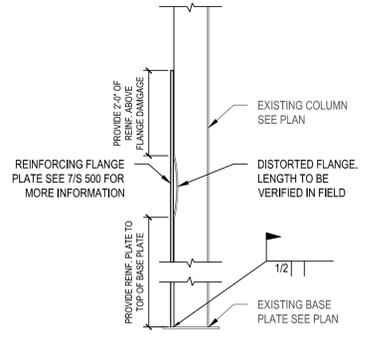
3 HVAC Support Plan Detail
SCALE: 3/4"=1'-0"



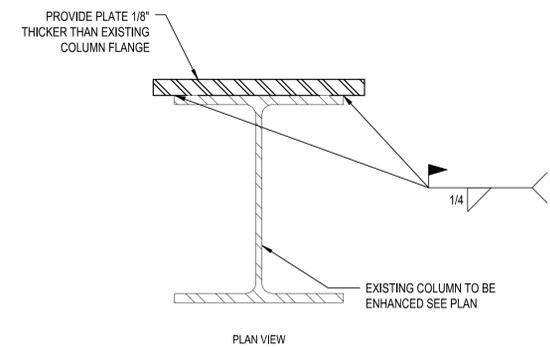
4 Short Skylight/Deck Opening Infill Plan Detail
SCALE: 3/4"=1'-0"



5 Concrete Slab Infill Detail
SCALE: NTS



6 Column Reinforcement Elevation
SCALE: 1/2"=1'-0"



7 Column Reinforcement Detail
SCALE: NTS

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CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
TITLE	DATE	TITLE	DATE	DRAWING NUMBER
WESTCHESTER COUNTY, NEW YORK		23-519		
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		S 500		
DIVISION OF ENGINEERING		SHEET NO. 17 OF 48		
Roof, HVAC and Electrical Upgrades		SCALE: AS NOTED		
Daniel P. Thomas Material Recovery Facility		DATE: 06/07/2024		
Yonkers, New York		DPW FILE NO.		
REPAIR DETAILS		93-02-S-289-0		
		REV. No.		

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BCU	BUILDING CONTROL UNIT
BTU	BRITISH THERMAL UNIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COMM.	COMMUNICATION
CV	CONTROL VALVE
(D)	DEMOLISH
DB	DRY BULB
DCV	DEMAND CONTROLLED VENTILATION
DEG. F	DEGREES FAHRENHEIT
DIA	DIAMETER
DX	DIRECT EXPANSION
'E'	ELECTRICAL CONTRACTOR
(E)	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FT. H2O	FEET OF WATER
'G'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
H	HEIGHT
'H'	HVAC CONTRACTOR
HP	HORSEPOWER
IN.	INCHES
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	METER
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MNF	MANUFACTURER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OAI	OUTDOOR AIR INTAKE
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
'P'	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATING
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB	WET BULB
WMS	WIRE MESH SCREEN
HHWS/R	HEATING HOT WATER SUPPLY/RETURN

IN CHARGE OF MJV
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DUCTWORK LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		DUCTWORK BRANCH CONNECTION
	VD	VOLUME DAMPER
	CD	ROUND FACE SUPPLY DIFFUSER
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGISTER
	SEE AIR DEVICE SCHEDULE	SQUARE FACE SUPPLY DIFFUSER
	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER
	FC	FLEXIBLE CONNECTION
		TURNING VANES
		RECTANGULAR TO ROUND TRANSITION
	AL	ACOUSTICAL LINING
		END CAP
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)
		SUPPLY DUCT DROP (TURN DOWN)
		RETURN/EXHAUST DUCT DROP (TURN DOWN)
		SUPPLY DUCT RISE
		RETURN/EXHAUST DUCT RISE
	DSD	DUCT SMOKE DETECTOR
	MD	MOTORIZED DAMPER WITH ACTUATOR
	AD	ACCESS DOOR
	FD/AD	FIRE DAMPER WITH ACCESS DOOR
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR
	FAN	FAN
		WORK TO BE REMOVED
		POINT OF DISCONNECTION FROM EXISTING
		POINT OF CONNECTION TO EXISTING

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MD130.00	DEMO ROOF PART PLAN A
MD131.00	DEMO ROOF PART PLAN B
MD132.00	DEMO ROOF PART PLAN C
M110.00	PROPOSED FIRST FLOOR PLAN
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M132.00	PROPOSED ROOF PART PLAN C
M500.00	HVAC DETAILS
M600.00	HVAC SCHEDULES

PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
		PIPING DOWN/ PIPING UP
		BALL VALVE WITH HOSE END CONNECTION
	TH	THERMOMETER
	U	UNION
	FPC	FLEXIBLE PIPE CONNECTION
		DIRECTION OF FLOW
	PSR	PRESSURE SAFETY AND RELIEF VALVE
	PRV	PRESSURE REDUCING VALVE
	BV	BALL VALVE
	BA	BALANCING VALVE
	BFV	BUTTERFLY VALVE
		TEMPERATURE SENSOR WITH THERMOWELL
	GA	GATE VALVE
	GB	GLOBE VALVE
	AV	AUTOMATIC AIR VENT
	CV	2-WAY ELECTRONIC CONTROL VALVE
	CV	3-WAY ELECTRONIC CONTROL VALVE
	CV	2-WAY PNEUMATIC CONTROL VALVE
	CV	3-WAY PNEUMATIC CONTROL VALVE
	STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
	FD	FLOOR DRAIN
		AIR SEPARATOR
	F&T	STEAM TRAPS (INDICATE TYPE)
	CH	CHECK VALVE
	PG	PRESSURE GAUGE WITH GAUGE COCK
	RED	REDUCER
	CO	CLEANOUT END CAP
		PIPE GUIDE
		PIPE ANCHOR
		CAPPED PIPE
		PUMP
		WORK TO BE REMOVED
		POINT OF DISCONNECTION FROM EXISTING
		POINT OF CONNECTION TO EXISTING
	TDV	TRIPLE DUTY VALVE

CONTROLS LEGEND		
SYMBOL	ABBREV	DESCRIPTION
	C	CARBON MONOXIDE SENSOR
	T	THERMOSTAT
	S	DIGITAL TEMPERATURE SENSOR
	H	HUMIDITY SENSOR
	CO2	CARBON DIOXIDE SENSOR
	P	PRESSURE SENSOR
	SD	SMOKE DETECTOR

- GENERAL NOTES**
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
 - THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.
 - PERFORM ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, FIRE CODE, MECHANICAL CODE, ENERGY CONSERVATION CONSTRUCTION CODE, AND FUEL GAS CODE OF NEW YORK STATE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
 - COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS.
 - FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE DAMPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR DUCTWORK AS PER THE MECHANICAL CODE OF NEW YORK STATE. (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.)
 - DO NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S REQUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS SHALL ENSURE A PROPER 'FIT' AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.
 - MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
 - FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
 - PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
 - INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
 - LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
 - COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
 - COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
 - COORDINATE INSTALLATION OF SUPPLY AND RETURN GRILLES WITH INSTALLATION OF FINISHED CEILINGS.
 - COMPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS APPLIED.
 - TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND BALANCING IN ACCORDANCE WITH THE SPECIFICATIONS.
 - MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
 - INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION SECTION 230719 FOR ADDITIONAL REQUIREMENTS.
 - PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS, AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIR STREAM. PROVIDE TRAP AT CONNECTION, WATER SEAL DEPTH 1 INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT/ENGINEER.

- CONTRACT M SCOPE NOTES**
- INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - INSTALL SMOKE DETECTORS IN DUCTWORK FOR AIR HANDLING UNITS RATED AT 2,000 CFM OR GREATER.
 - FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF OPERATION.
 - FURNISH ALL LINTELS FOR DUCT AND PIPE PENETRATIONS IN INTERIOR MASONRY WALLS FOR INSTALLATION.
 - FURNISH ALL SLEEVES FOR PIPE AND CONDUIT FLOOR, WALL, PARTITION, AND ROOF PENETRATIONS FOR INSTALLATION.
 - FURNISH ALL CURBS FOR ALL ROOF MOUNTED EQUIPMENT AND DUCT PENETRATIONS FOR INSTALLATION.
 - REMOVE CHASE ENCLOSURE COVER WHEN PERFORMING WORK IN ANY CHASE, AND REINSTALL THE CHASE ENCLOSURE COVER WHEN WORK IS COMPLETE.
 - PERFORM ALL CUTTING AND ROUGH PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK.

- WORK IN EXISTING AREAS**
- EXISTING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
 - CUT AND ROUGH PATCH EXISTING CONSTRUCTION AS REQUIRED FOR THE PERFORMANCE OF THE WORK. FINISH PATCHING AND FLASHING REQUIREMENTS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. PERFORM ALL CUTTING AND PATCHING WORK IN A MANNER SUCH THAT ANY EXISTING WARRANTIES/GUARANTEES ARE NOT VOIDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

LEGENDS/ABBREVIATIONS NOTES

- ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.

SYSTEM COMMISSIONING NOTES (NYS):

- COMMISSION ALL NEW BUILDING MECHANICAL SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NEW YORK STATE (NYS) ENERGY CONSERVATION CONSTRUCTION CODE (ECCC) SECTION C408. COMMISSIONING SHALL BE PERFORMED BY AN APPROVED THIRD-PARTY COMMISSIONING AGENCY HIRED BY THE OWNER. REFER TO SPECIFICATION SECTION 230800 - COMMISSIONING OF MECHANICAL SYSTEMS, FOR MORE INFORMATION.
- PROVIDE DRAWINGS, OPERATION & MAINTENANCE (O&M) MANUALS, AND SYSTEM BALANCING REPORTS TO BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION, IN ACCORDANCE WITH THE 2020 NYS ECC SECTION C408 2.5.
- PROVIDE FINAL COMMISSIONING REPORT TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NYS ECC SECTION C408 2.5.4.

Key Plan
SCALE: N.T.S.

1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER		MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR

NAME _____
 SIGNATURE _____
 TITLE _____

PROJECT COORDINATOR

NAME _____
 SIGNATURE _____
 TITLE _____

WESTCHESTER COUNTY, NEW YORK
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 DIVISION OF ENGINEERING

Roof, HVAC and Electrical Upgrades
 Daniel P. Thomas Material Recovery Facility
 Yonkers, New York

CONTRACT NUMBER
23-519

DRAWING NUMBER
M002

SHEET NO. **18** OF 48

SCALE: AS NOTED
 DATE: 06/07/2024

DPW FILE NO. _____

REV. NO. _____

93-02-M-290-0

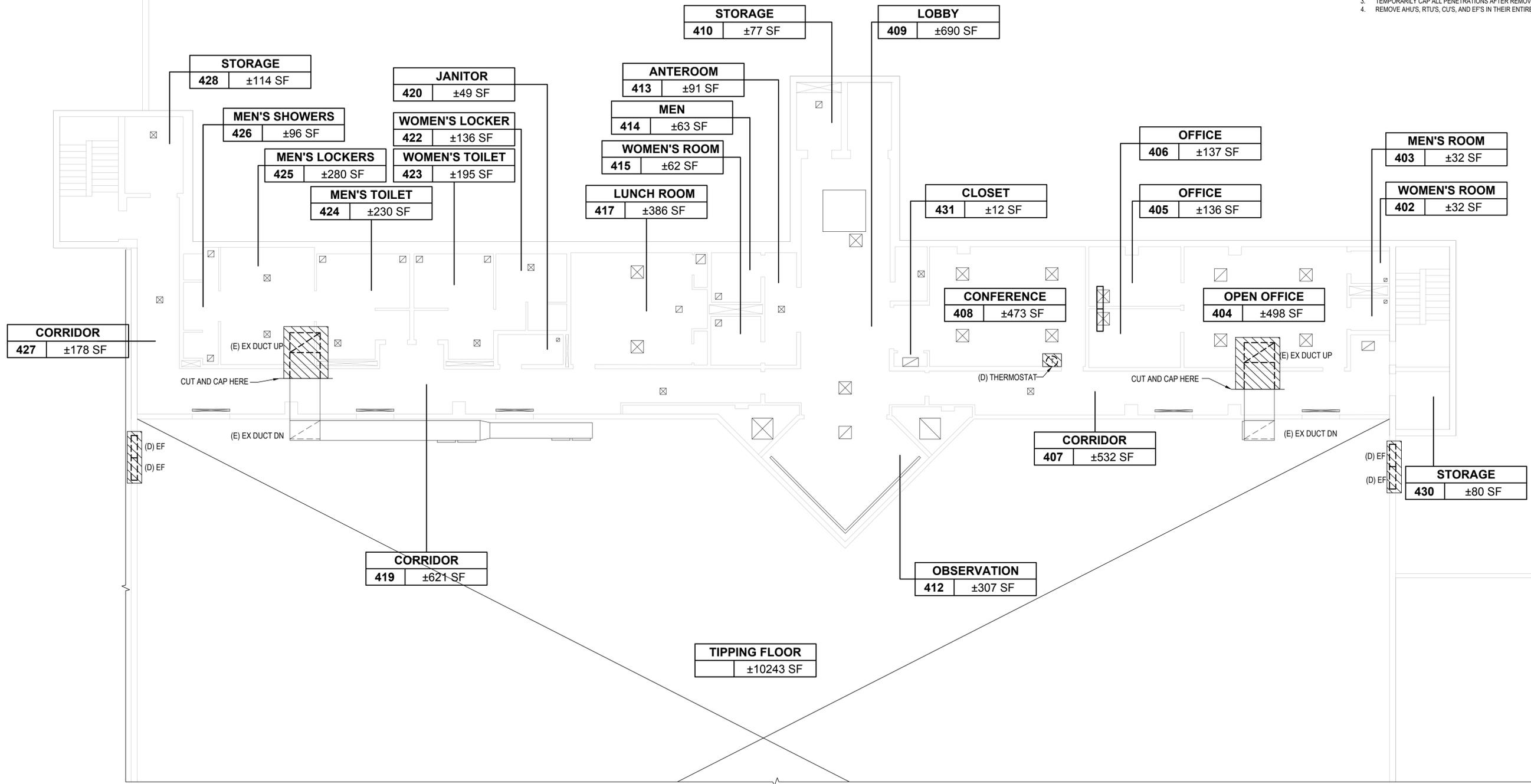
H2M architects + engineers

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Melville, NY 11747
 Albany, NY 12205
 White Plains, NY 10604
 New City, NY 10956
 Parsippany, NJ 07054
 Howell, NJ 07731

MECHANICAL DEMOLITION NOTES:

1. ALL EXISTING AIR PATHS TO REMAIN.
2. ALL OTHER EQUIPMENT AND SYSTEMS TO REMAIN.
3. TEMPORARILY CAP ALL PENETRATIONS AFTER REMOVING EQUIPMENT.
4. REMOVE AHU'S, RTUS, CUS, AND EF'S IN THEIR ENTIRETY.



Demolition Second Floor Plan
SCALE: 1/8"=1'-0"

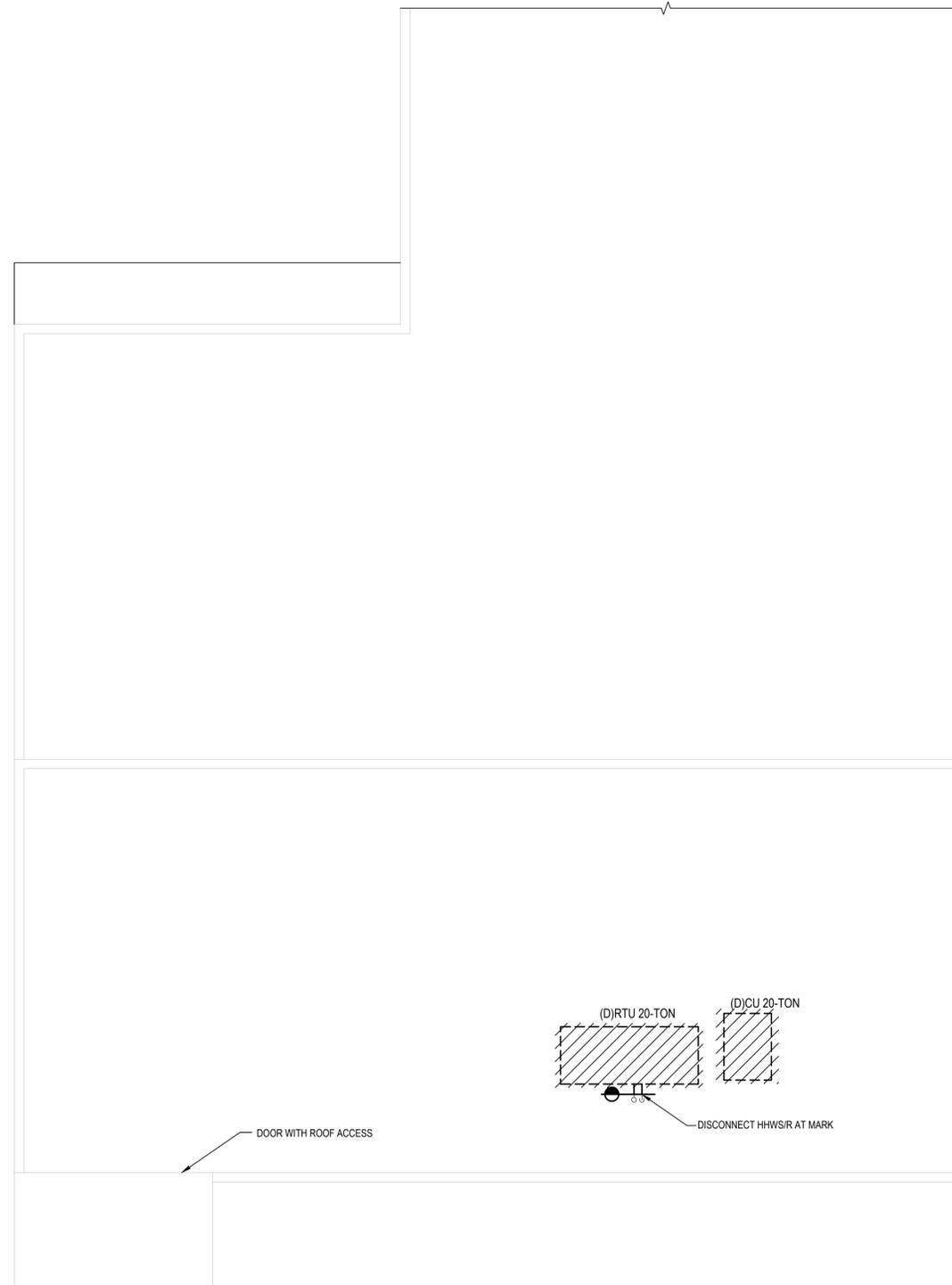
H 2 architects + engineers
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Melville, NY 11747, Albany, NY 12205, White Plains, NY 10604, New City, NY 10956, Parsippany, NJ 07054, Howell, NJ 07731

1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER: 23-519 DRAWING NUMBER: MD120
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				SHEET NO. 19 OF 48 SCALE: AS NOTED DATE: 06/07/2024 DPW FILE NO. _____ REV. NO. _____
DEMOLITION SECOND FLOOR PLAN				93-02-M-291-0

IN CHARGE OF: MJV
 CHECKED BY: _____
 MADE BY: KCM

MECHANICAL DEMOLITION NOTES:

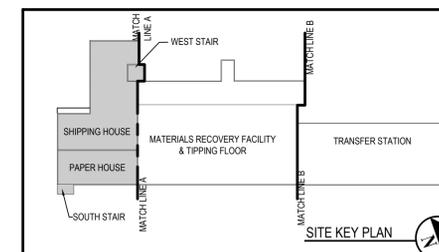
1. ALL EXISTING AIR PATHS TO REMAIN.
2. ALL OTHER EQUIPMENT AND SYSTEMS TO REMAIN.
3. TEMPORARILY CAP ALL PENETRATIONS AFTER REMOVING EQUIPMENT.
4. REMOVE AHU'S, RTU'S, CUS, AND EPS IN THEIR ENTIRETY.



SEE MD131

Demolition Roof Paper/ Shipping House

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



SITE KEY PLAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	KCM	MJV	BID SUBMISSION

RECORD DRAWING CERTIFICATION

- AS BUILT - CHANGES AS NOTED
- AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME	DATE	NAME	DATE
SIGNATURE		SIGNATURE	
TITLE		TITLE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 23-519	DRAWING NUMBER MD130
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York		SHEET NO. 20 OF 48	SCALE: AS NOTED DATE: 06/07/2024
DEMOLITION ROOF PAPER/ SHIPPING HOUSE		DPW FILE NO.	REV. NO.
		93-02-M-292-0	

IN CHARGE OF _____ MJV
 CHECKED BY _____
 MADE BY _____ KCM

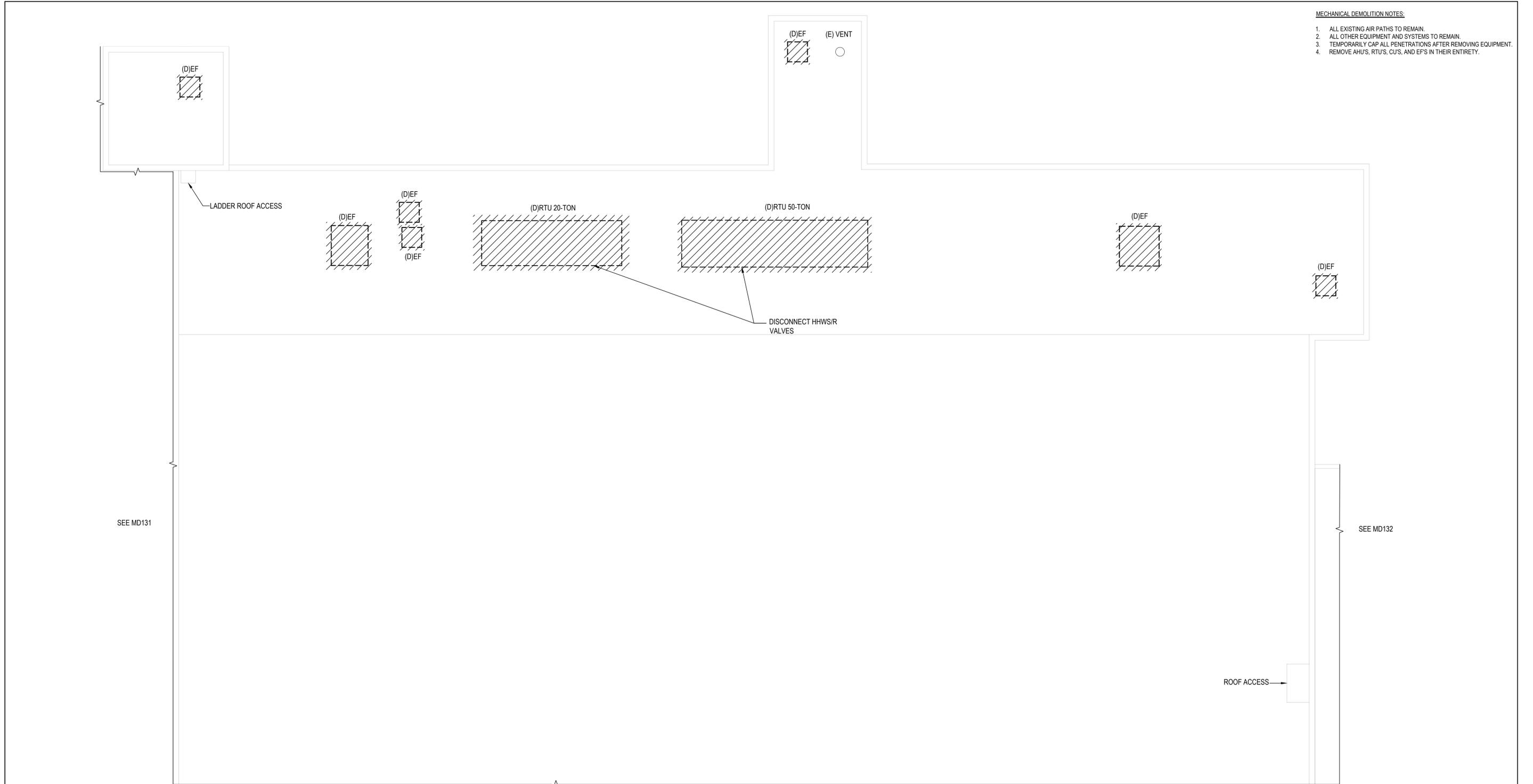


H 2 architects + engineers
M

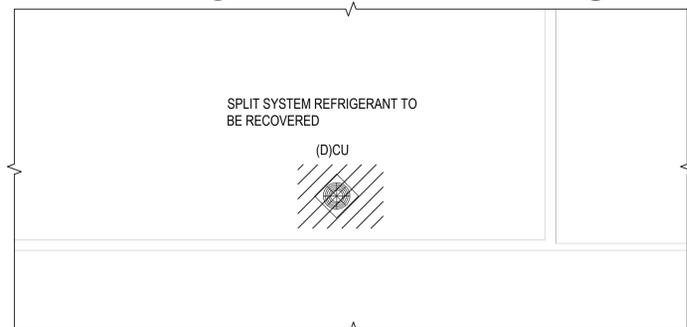
2700 Westchester Avenue
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 F: (914) 358-5624

Melville, NY 11747
 Albany, NY 12205
 White Plains, NY 10604
 New City, NY 10956
 Parsippany, NJ 07054
 Howell, NJ 07731

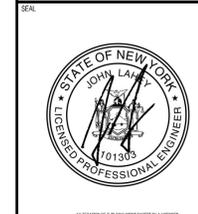
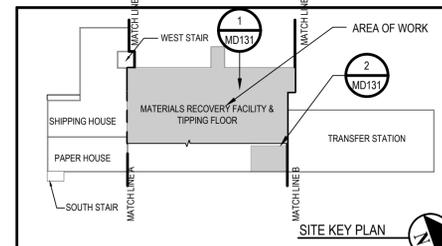
- MECHANICAL DEMOLITION NOTES:**
1. ALL EXISTING AIR PATHS TO REMAIN.
 2. ALL OTHER EQUIPMENT AND SYSTEMS TO REMAIN.
 3. TEMPORARILY CAP ALL PENETRATIONS AFTER REMOVING EQUIPMENT.
 4. REMOVE AHUS, RTU'S, CU'S, AND EP'S IN THEIR ENTIRETY.



1 Demolition Roof Transfer Station
SCALE: 1/8"=1'-0"



2 Demolition Roof Transfer Station
SCALE: 1/8"=1'-0"



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Howell, NJ 07731

1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME	SIGNATURE	NAME	SIGNATURE
TITLE	DATE	TITLE	DATE
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	MD131
DIVISION OF ENGINEERING		SHEET NO. 21 OF 48	
Roof, HVAC and Electrical Upgrades		SCALE: AS NOTED	
Daniel P. Thomas Material Recovery Facility		DATE: 06/07/2024	
Yonkers, New York		DPW FILE NO.	REV. NO.
DEMOLITION ROOF TRANSFER STATION		93-02-M-293-0	

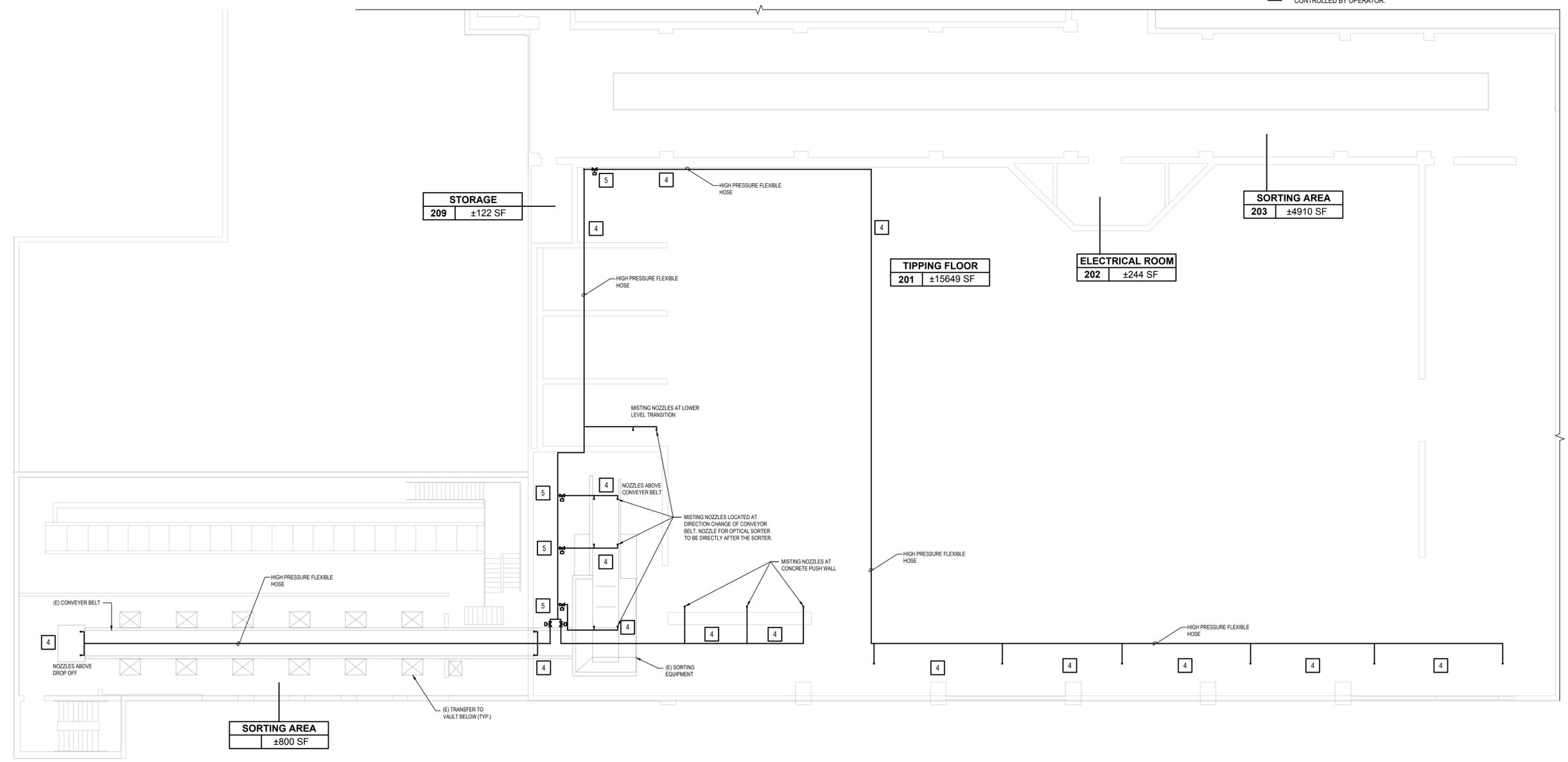
IN CHARGE OF: MJV
CHECKED BY: KCM
MADE BY: KCM

KEYED NOTES:

- 1 PROVIDE NEW ISOLATION VALVES
- 2 PARAPET WALL TIE DOWN NOT REQUIRED.
- 3 TIE DOWN REQUIRED. REFER TO STRUCTURAL DRAWINGS
- 4 PIPE SIZE TO BE DETERMINED BY MISTING SYSTEM CONTRACTOR
- 5 PROVIDE SOLENOID VALVE TO CREATE ZONES THAT CAN BE CONTROLLED BY OPERATOR.

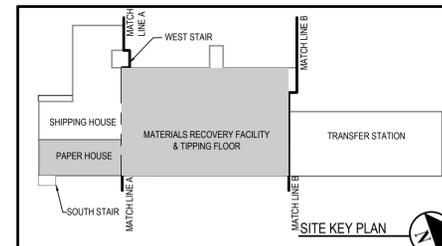
GENERAL NOTES:

- 1. CONNECT ALL NEW EQUIPMENT TO EXISTING DUCTWORK.
- 2. PROVIDE NEW THERMOSTAT TO RTU'S IN ASSOCIATED SPACES.
- 3. CONNECT PROPOSED MISTING SYSTEM TO EXISTING WATER CONNECTION.
- 4. FINAL MISTING NOZZLE COUNT TO BE DETERMINED BY MISTING SYSTEM CONTRACTOR.



First Floor Misting System Transfer Station and Paper/ Shipping House Plan
SCALE: 3/32"=1'-0"

IN CHARGE OF _____ MJV
 CHECKED BY _____
 MADE BY _____ KCM



SEAL

H 2 architects + engineers

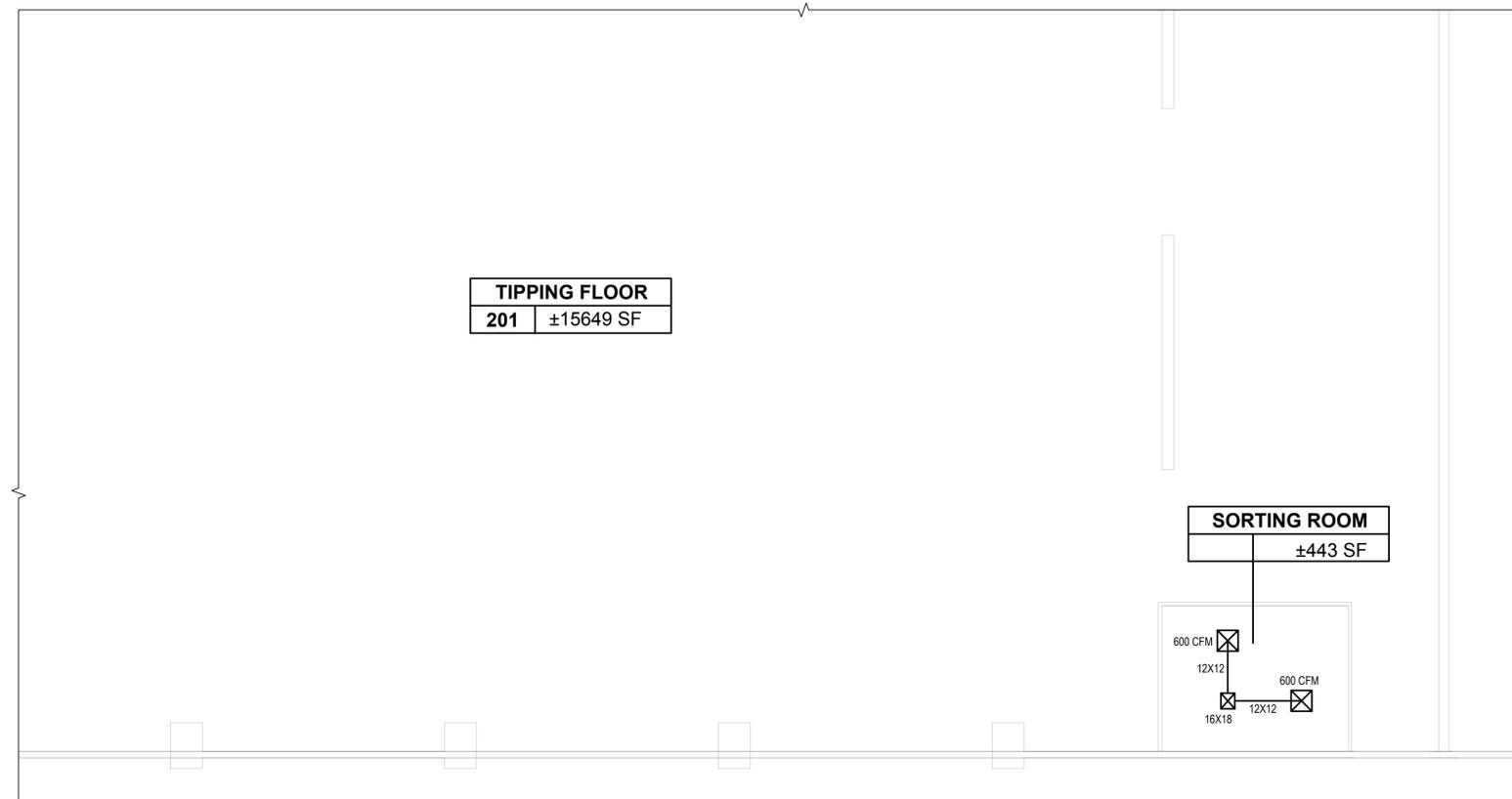
2700 Westchester Avenue
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Melville, NY 11747
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 White Plains, NY 10604
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1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER: 23-519 DRAWING NUMBER: M113
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				SHEET NO. 26 OF 48 SCALE: AS NOTED DATE: 06/07/2024 DPW FILE NO. _____ REV. NO. _____
FIRST FLOOR MISTING SYSTEM TRANSFER STATION AND PAPER/SHIPPING HOUSE PLAN				93-02-M-298-0

GENERAL NOTES:

1. CONNECT ALL NEW EQUIPMENT TO EXISTING DUCTWORK.
2. PROVIDE NEW THERMOSTAT TO RTUS IN ASSOCIATED SPACES.



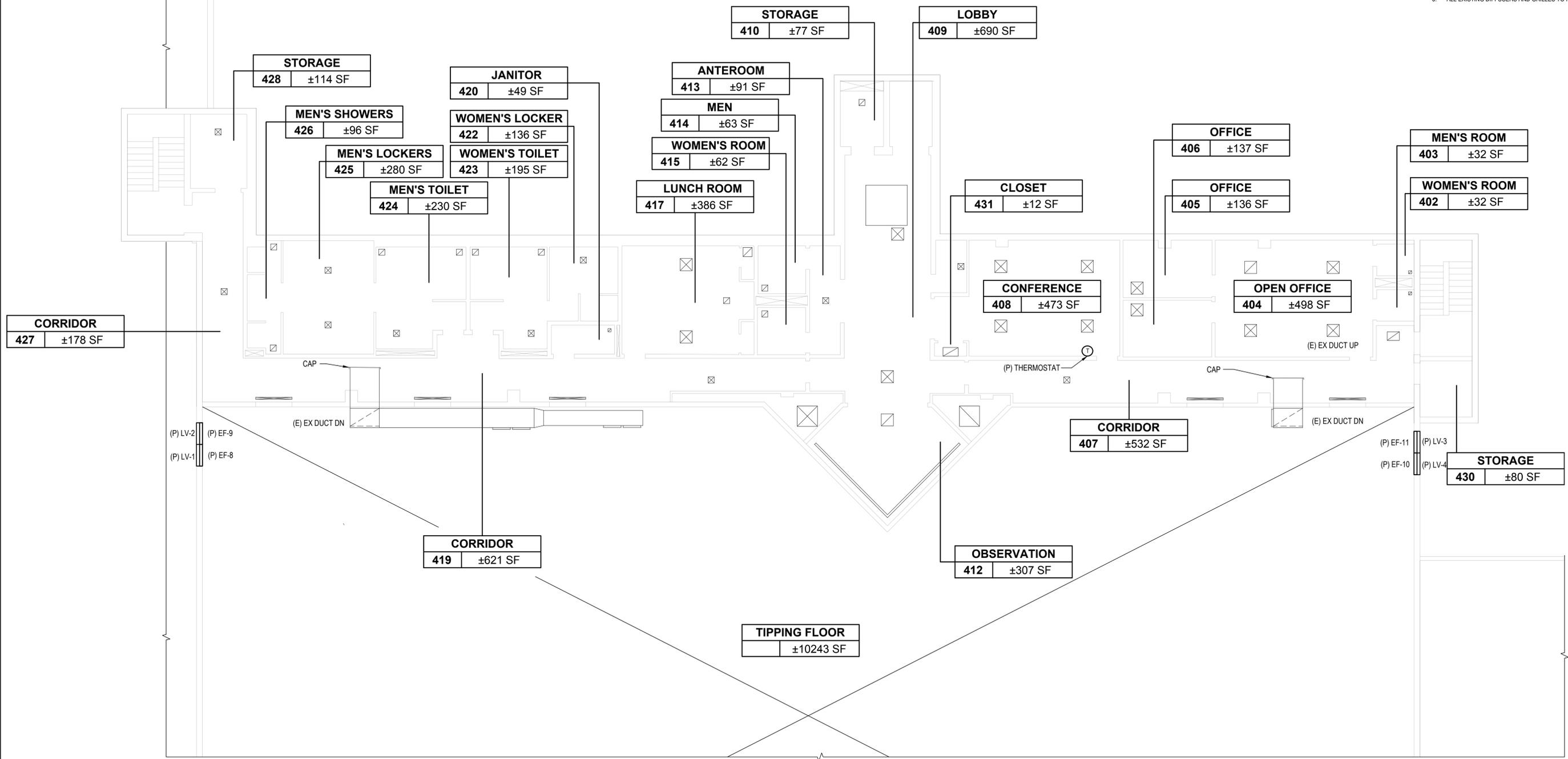
Small Sorting Room Floor Plan
SCALE: 1/8"=1'-0"

H 2 architects + engineers
 2700 Westchester Avenue, Suite 415, Purchase, NY 10577
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1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME	NAME	DATE	DATE	
SIGNATURE	SIGNATURE			
TITLE	TITLE			
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING			CONTRACT NUMBER 23-519	DRAWING NUMBER M115
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York			SHEET NO. 28 OF 48	SCALE: AS NOTED DATE: 06/07/2024
SMALL SORTING ROOM FLOOR PLAN			DPW FILE NO.	REV. NO.
			93-02-M-300-0	

IN CHARGE OF MJV
 CHECKED BY
 MADE BY KCM

- GENERAL NOTES:
1. CONNECT ALL NEW EQUIPMENT TO EXISTING DUCTWORK
 2. PROVIDE NEW THERMOSTAT TO RTUS IN ASSOCIATED SPACES
 3. ALL EXISTING DIFFUSERS AND GRILLES TO REMAIN.



CORRIDOR
427 ±178 SF

STORAGE
428 ±114 SF

JANITOR
420 ±49 SF

STORAGE
410 ±77 SF

LOBBY
409 ±690 SF

ANTEROOM
413 ±91 SF

MEN
414 ±63 SF

WOMEN'S ROOM
415 ±62 SF

LUNCH ROOM
417 ±386 SF

OFFICE
406 ±137 SF

MEN'S ROOM
403 ±32 SF

WOMEN'S ROOM
402 ±32 SF

OFFICE
405 ±136 SF

CLOSET
431 ±12 SF

CONFERENCE
408 ±473 SF

OPEN OFFICE
404 ±498 SF

MEN'S TOILET
424 ±230 SF

MEN'S LOCKERS
425 ±280 SF

WOMEN'S TOILET
423 ±195 SF

WOMEN'S LOCKER
422 ±136 SF

MEN'S SHOWERS
426 ±96 SF

CORRIDOR
407 ±532 SF

STORAGE
430 ±80 SF

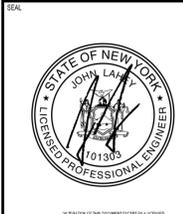
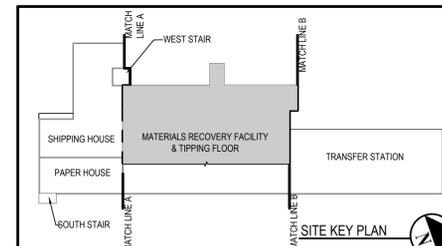
CORRIDOR
419 ±621 SF

OBSERVATION
412 ±307 SF

TIPPING FLOOR
±10243 SF

IN CHARGE OF _____ MJV
CHECKED BY _____
MADE BY _____ KCM

Second Floor Plan
SCALE: 1/8"=1'-0"



H 2 architects + engineers
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Melville, NY 11747
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White Plains, NY 10604
New City, NY 10956
Parsippany, NJ 07054
Howell, NJ 07731

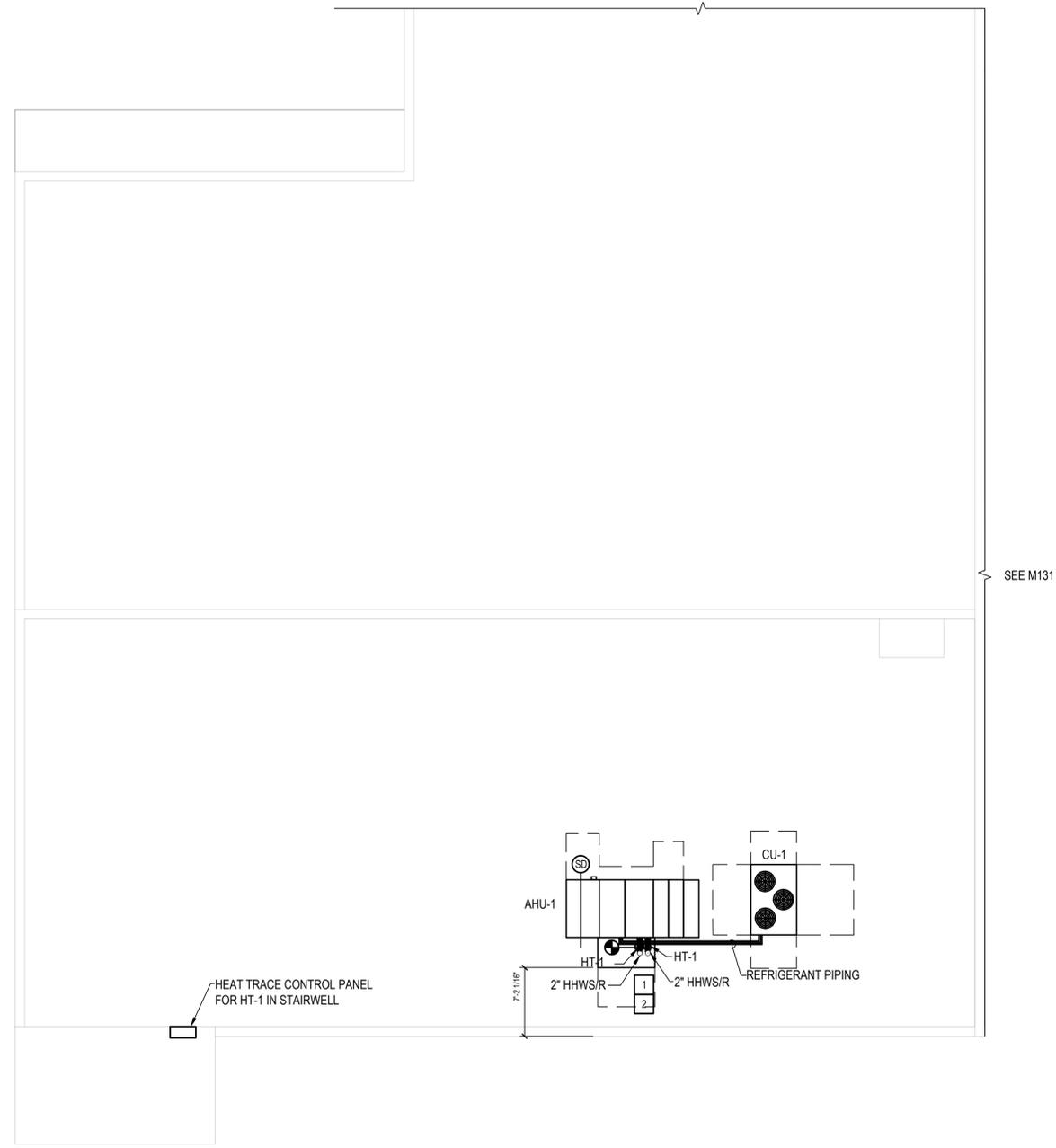
1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED		<input type="checkbox"/> AS BUILT - NO CHANGES		
CONTRACTOR		PROJECT COORDINATOR		
NAME _____	NAME _____	DATE _____		
SIGNATURE _____	SIGNATURE _____	DATE _____		
TITLE _____	TITLE _____	DATE _____		
WESTCHESTER COUNTY, NEW YORK				CONTRACT NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				23-519
DIVISION OF ENGINEERING				DRAWING NUMBER
Roof, HVAC and Electrical Upgrades				M120
Daniel P. Thomas Material Recovery Facility				SHEET NO. 29 OF 48
Yonkers, New York				SCALE: AS NOTED
SECOND FLOOR PLAN				DATE: 06/07/2024
93-02-M-301-0				DPW FILE NO.
REV. NO.				

GENERAL NOTES:

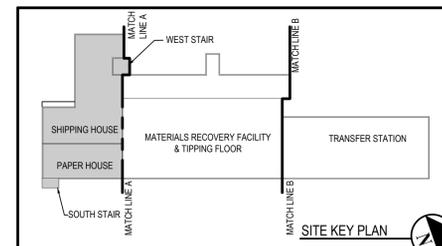
1. CONNECT ALL NEW EQUIPMENT TO EXISTING DUCTWORK
2. PROVIDE NEW THERMOSTAT TO RTUS IN ASSOCIATED SPACES.
3. DRAIN ALL CONDENSATE DIRECTLY TO ROOF.

KEYED NOTES:

- 1 PROVIDE NEW ISOLATION VALVES
- 2 PARAPET WALL TIE DOWN NOT REQUIRED.
- 3 TIE DOWN REQUIRED. REFER TO STRUCTURAL DRAWINGS
- 4 PIPE SIZE TO BE DETERMINED BY MISTING SYSTEM CONTRACTOR



Roof Paper/ Shipping House
SCALE: 1/8"=1'-0"



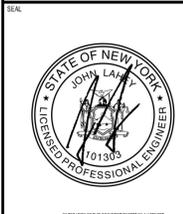
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	KCM	MJV	BID SUBMISSION

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

NAME _____ SIGNATURE _____ TITLE _____		NAME _____ SIGNATURE _____ TITLE _____	
CONTRACTOR		PROJECT COORDINATOR	
WESTCHESTER COUNTY, NEW YORK			
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			
DIVISION OF ENGINEERING			
Roof, HVAC and Electrical Upgrades		Daniel P. Thomas Material Recovery Facility Yonkers, New York	
CONTRACT NUMBER	DATE	DRAWING NUMBER	REV. NO.
23-519	06/07/2024	M130	
SHEET NO. 30 OF 48		SCALE: AS NOTED	
DPW FILE NO.		DATE: 06/07/2024	
93-02-M-302-0		REV. NO.	

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 MADE BY _____ KCM



H 2 M architects + engineers

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Marville, NY 11747
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New City, NY 10956
Passapatanz, NJ 07054
Howell, NJ 07731

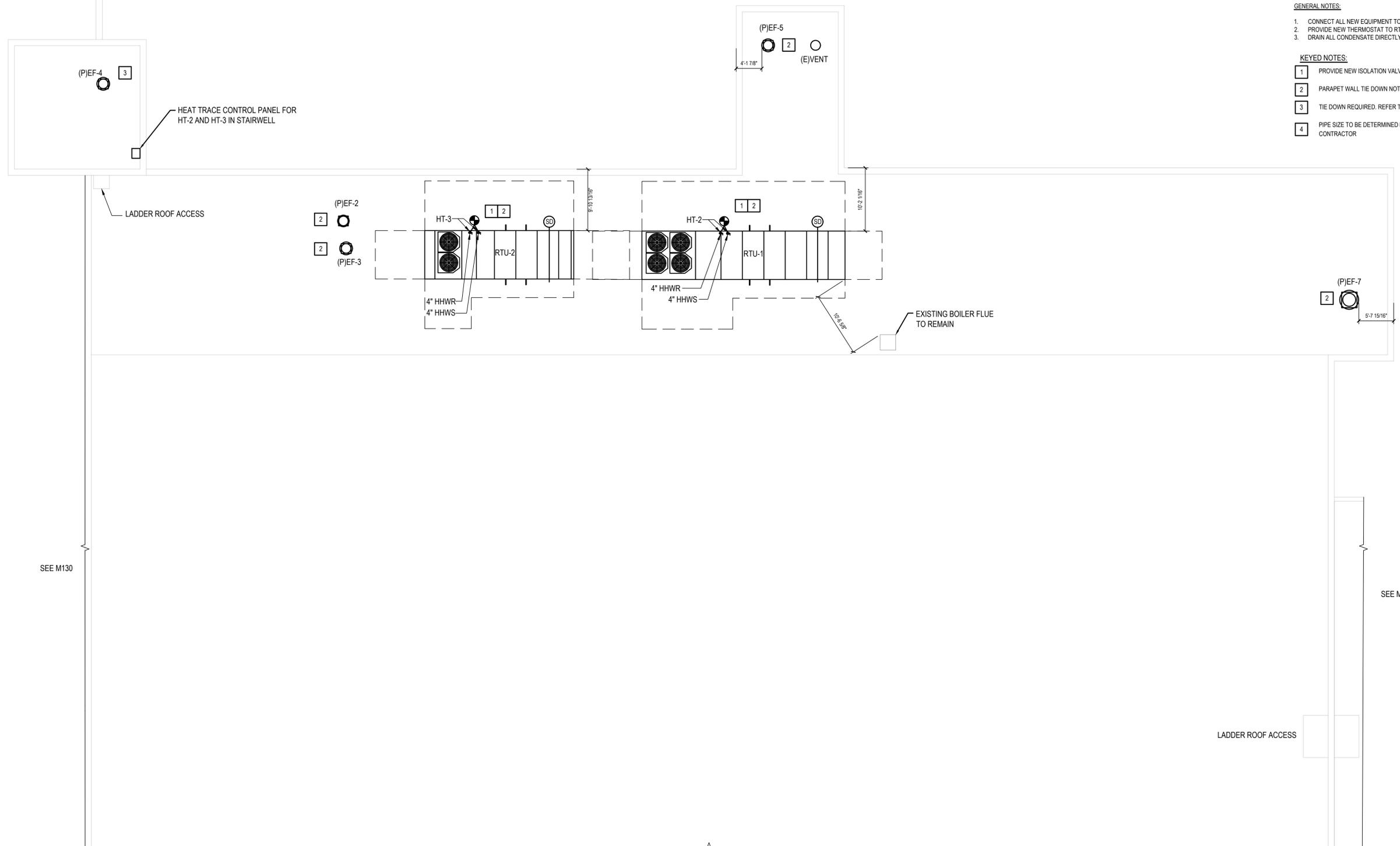
ROOF PAPER/SHIPPING HOUSE

GENERAL NOTES:

1. CONNECT ALL NEW EQUIPMENT TO EXISTING DUCTWORK
2. PROVIDE NEW THERMOSTAT TO RTUS IN ASSOCIATED SPACES.
3. DRAIN ALL CONDENSATE DIRECTLY TO ROOF.

KEYED NOTES:

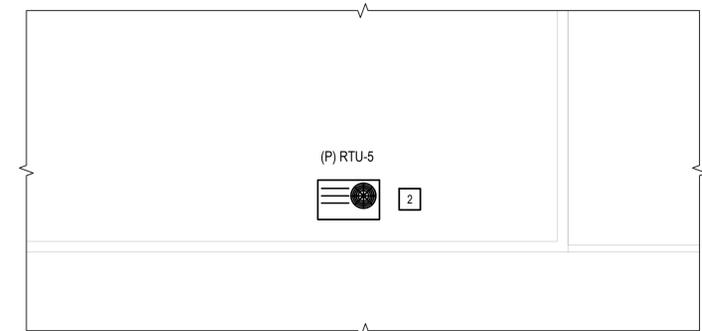
- 1 PROVIDE NEW ISOLATION VALVES
- 2 PARAPET WALL TIE DOWN NOT REQUIRED.
- 3 TIE DOWN REQUIRED. REFER TO STRUCTURAL DRAWINGS
- 4 PIPE SIZE TO BE DETERMINED BY MISTING SYSTEM CONTRACTOR



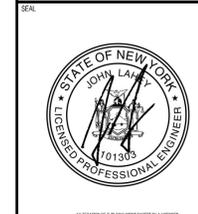
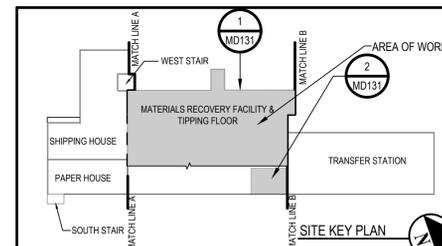
SEE M130

SEE M132

1 Roof Transfer Station
SCALE: 1/8"=1'-0"



2 Roof Transfer Station
SCALE: 1/8"=1'-0"



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1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
 AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME	SIGNATURE	NAME	SIGNATURE
TITLE	DATE	TITLE	DATE
WESTCHESTER COUNTY, NEW YORK			
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			
DIVISION OF ENGINEERING			
Roof, HVAC and Electrical Upgrades		CONTRACT NUMBER	DRAWING NUMBER
Daniel P. Thomas Material Recovery Facility		23-519	M131
Yonkers, New York		SHEET NO.	31 OF 48
ROOF TRANSFER STATION		SCALE: AS NOTED	DATE: 06/07/2024
		DPW FILE NO.	REV. NO.
		93-02-M-303-0	

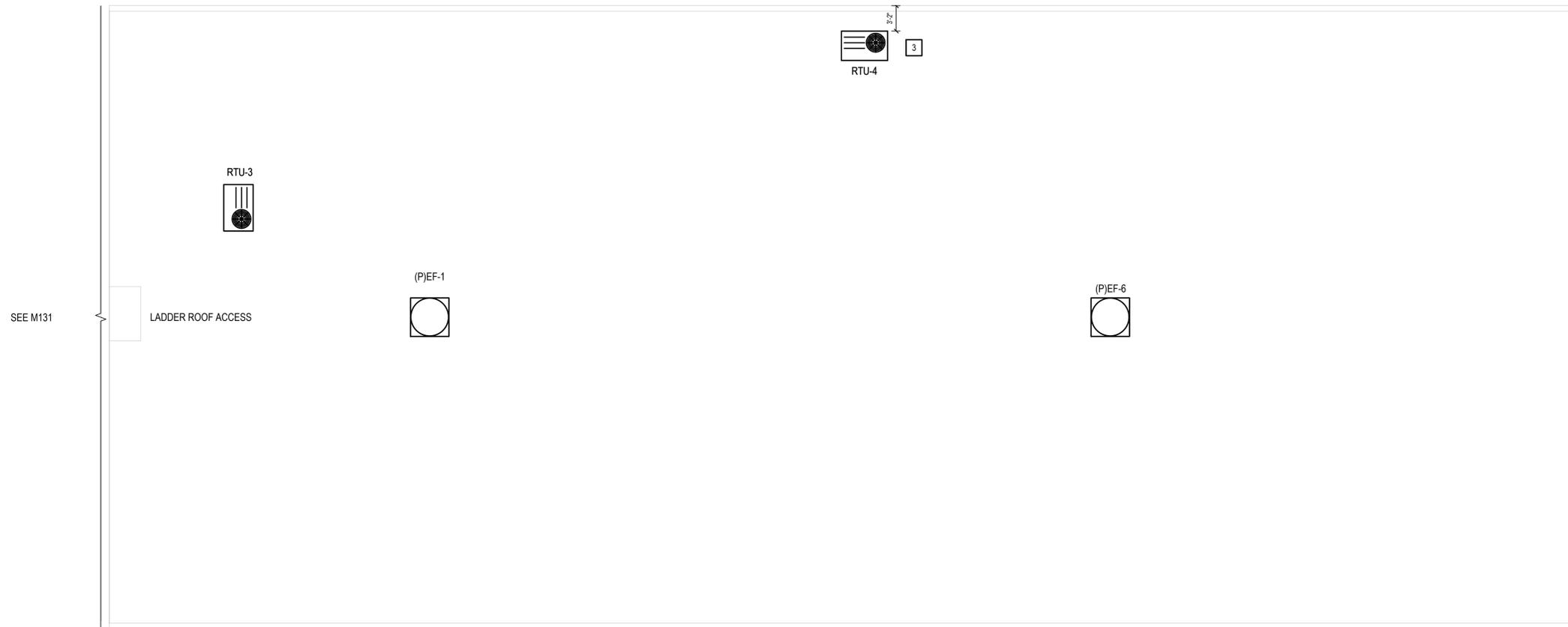
IN CHARGE OF: MJV
 CHECKED BY: _____
 MADE BY: KCM

GENERAL NOTES:

1. CONNECT ALL NEW EQUIPMENT TO EXISTING DUCTWORK
2. PROVIDE NEW THERMOSTAT TO RTUS IN ASSOCIATED SPACES.
3. DRAIN ALL CONDENSATE DIRECTLY TO ROOF.

KEYED NOTES:

- 1 PROVIDE NEW ISOLATION VALVES
- 2 PARAPET WALL TIE DOWN NOT REQUIRED.
- 3 TIE DOWN REQUIRED. REFER TO STRUCTURAL DRAWINGS
- 4 PIPE SIZE TO BE DETERMINED BY MISTING SYSTEM CONTRACTOR



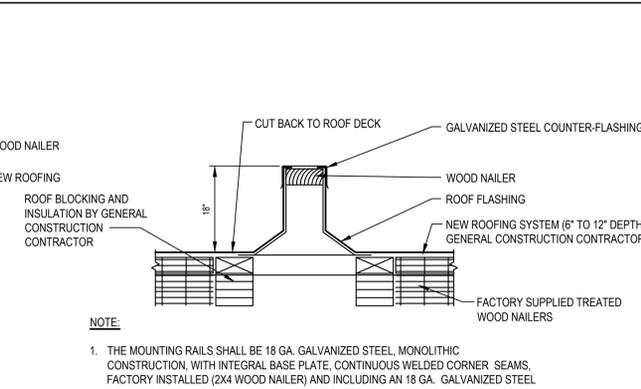
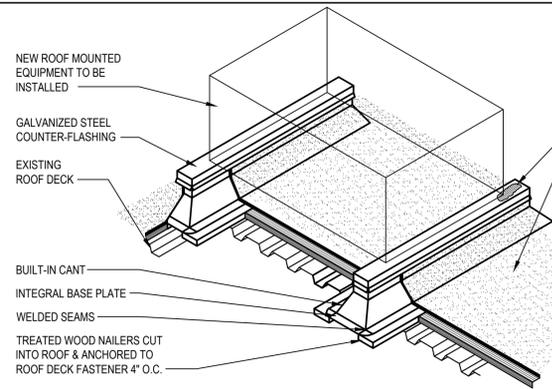
Roof Tipping Floor
SCALE: 1/8"=1'-0"

IN CHARGE OF _____ MJV
 CHECKED BY _____
 MADE BY _____ KCM

The site key plan shows the layout of the building with labels for 'SHIPPING HOUSE', 'PAPER HOUSE', 'SOUTH STAIR', 'WEST STAIR', 'MATERIALS RECOVERY FACILITY & TIPPING FLOOR', and 'TRANSFER STATION'. Match lines 'MATCH LINE A' and 'MATCH LINE B' are also indicated. Below the key plan is the professional seal of a Licensed Professional Engineer for the State of New York, with the name 'JOHN LAMAY' and the number '101305'.

H 2 architects + engineers
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1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME _____	NAME _____	NAME _____		
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____		
TITLE _____	DATE _____	TITLE _____ DATE _____		
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	M132	
DIVISION OF ENGINEERING		SHEET NO. 32 OF 48		
Roof, HVAC and Electrical Upgrades		SCALE: AS NOTED		
Daniel P. Thomas Material Recovery Facility		DATE: 06/07/2024		
Yonkers, New York		DPW FILE NO.	REV. NO.	
ROOF TIPPING FLOOR		93-02-M-304-0		



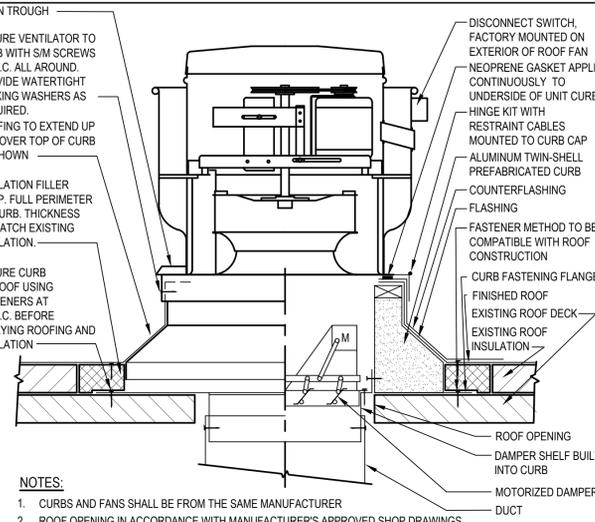
NOTE:
 1. THE MOUNTING RAILS SHALL BE 18 GA. GALVANIZED STEEL, MONOLITHIC CONSTRUCTION, WITH INTEGRAL BASE PLATE, CONTINUOUS WELDED CORNER SEAMS, FACTORY INSTALLED (2x4 WOOD NAILER) AND INCLUDING AN 18 GA. GALVANIZED STEEL COUNTER-FLASHING COMPLETE WITH SCREWS. PROVIDE BUILT IN CANT, STARTING 1 1/2\"/>

EQUIPMENT SUPPORT DETAIL NOTES:

- THE DETAILS PROVIDED HERewith DO NOT DEPICT EVERY CONDITION THAT WILL BE REQUIRED FOR A COMPLETE INSTALLATION. THE DETAILS PROVIDED DO DEPICT THE INTENDED SCOPE OF WORK AND WORK TO BE UNDERTAKEN. THE CONTRACTOR MUST PROVIDE AS REQUIRED ALL ADDITIONAL CONSTRUCTION ITEMS INCLUDING, BUT NOT LIMITED TO, ADDITIONAL BLOCKING, TAPERED INSULATION, CANTS, CRICKETS, ETC. TO EXECUTE THE WORK AND TO EXECUTE ALL OF THE CONSTRUCTION SURROUNDING THE DETAILS INDICATED.
- BLOCKING HEIGHTS AND TAPERED INSULATION THICKNESS SHOWN IN DETAILS ARE SCHEMATIC. CONTRACTOR MUST PROVIDE AND COORDINATE THE ACTUAL HEIGHTS AND THICKNESS REQUIRED WITH FIELD CONDITIONS AND LOCATIONS OF ROOFING FEATURES.
- THE CONTRACTOR SHALL PROVIDE ADDITIONAL BLOCKING/RAISE OR EXTEND CURBS, FLASHING AND ASSOCIATED CONSTRUCTION AS REQUIRED TO COMPLY WITH THIS REQUIREMENT.
- ALL FASTENERS INTO TREATED LUMBER TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- EQUIPMENT SUPPORTS SHALL BE THYBAR MODEL TEMS-2 OR APPROVED EQUAL.

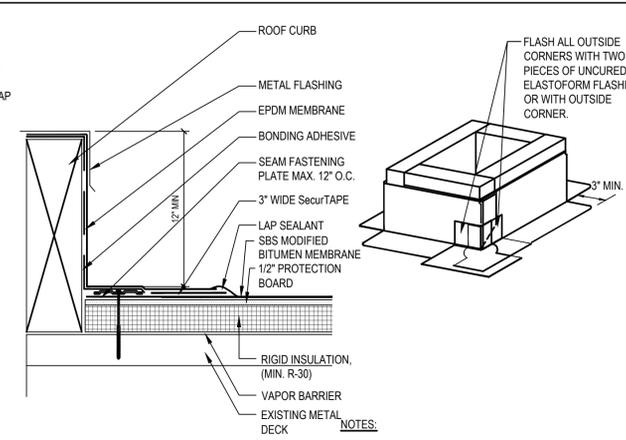
1 Equipment Support Detail (1 of 2)
 SCALE: NTS

2 Equipment Support Detail (2 of 2)
 SCALE: NTS



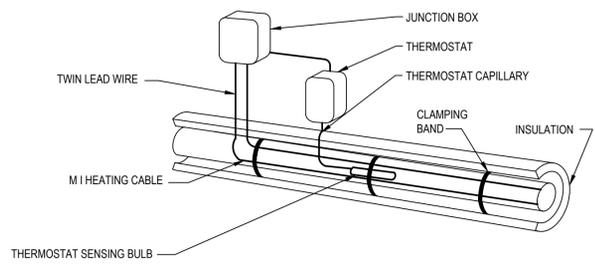
- NOTES:**
- CURBS AND FANS SHALL BE FROM THE SAME MANUFACTURER
 - ROOF OPENING IN ACCORDANCE WITH MANUFACTURER'S APPROVED SHOP DRAWINGS
 - CURB HEIGHT SHALL BE 12\"/>

3 Roof Exhaust Fan & Curb
 SCALE: NTS (DETAIL #)



- NOTES:**
- IF VERTICAL SPLICE IS NOT LOCATED AT CORNER, 6\"/>

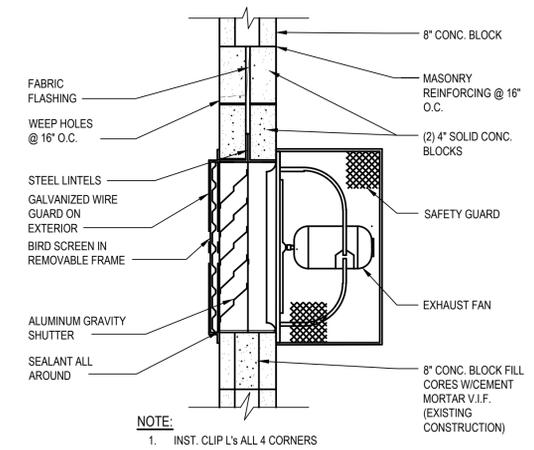
4 Roof Curb Detail
 SCALE: NTS (DETAIL #)



CONTROL INSTALLATION

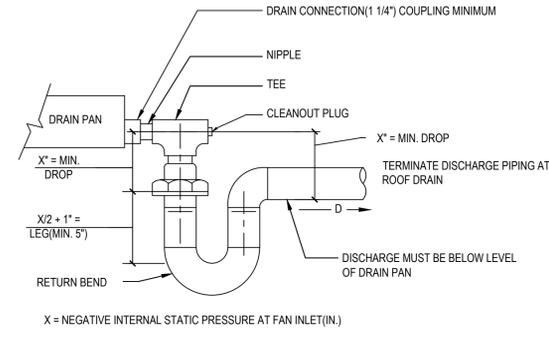
- NOTES:**
- THERMOSTAT SHALL HAVE CURRENT CARRYING CAPACITY OF 120% OF INSTALLED WATTAGE OR A CONTACTOR PANEL SHALL BE INSTALLED.
 - OUTDOOR INSTALLATION SHALL BE 2\"/>

5 Typical Piping Heat Tracing Detail
 SCALE: NTS



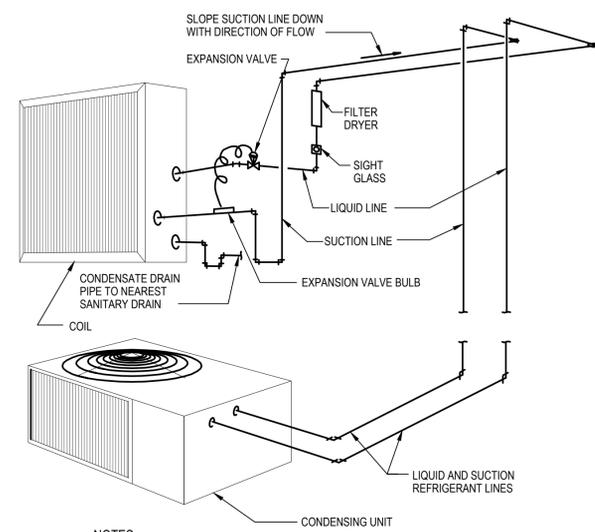
- NOTE:**
 1. INST. CLIP L's ALL 4 CORNERS

6 Exhaust Fan Detail
 SCALE: NTS (DETAIL #)



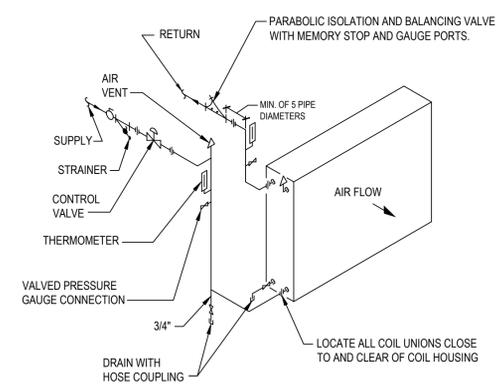
- NOTES:**
- ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
 - PITCH DRAIN FOR PROPER RUN-OFF.
 - MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.
 - SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
 - PROVIDE DRAIN SEAL AT EACH AC UNIT.

7 DRAIN PAN PIPING DETAIL
 SCALE: NTS

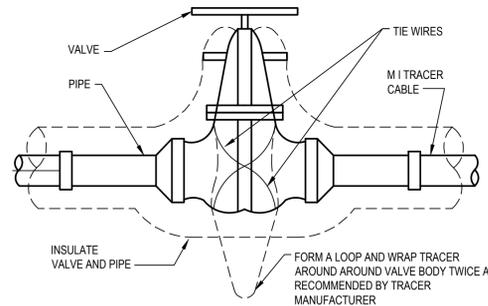


- NOTES:**
- CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR PIPE SIZING AND INSTALLATION.
 - SINGLE CIRCUIT SHOWN, MULTIPLE CIRCUIT INSTALLATIONS SIMILAR.

8 Refrigerant Piping Detail
 SCALE: NTS (DETAIL #)



9 Hot Water Coil Connections
 SCALE: NTS (DETAIL #)



10 Typical Valve Heat Tracing Pattern
 SCALE: NTS

IN CHARGE OF _____ MJV
 CHECKED BY _____
 MADE BY _____ KCM

H 2 M architects + engineers

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 New City, NY 10956
 Parsippany, NJ 07054
 Howell, NJ 07731

1	10/30/2024	KCM	MJV	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
AS BUILT - CHANGES AS NOTED		AS BUILT - NO CHANGES		
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	DATE	NAME	SIGNATURE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				
CONTRACT NUMBER	DRAWING NUMBER	SHEET NO. 33 OF 48		
23-519	M500	SCALE: AS NOTED DATE: 06/07/2024		
DPW FILE NO.		REV. NO.		
93-02-M-305-0		HMAC DETAILS		

ROOFTOP UNITS

EQUIPMENT NO.	LOCATION	PERFORMANCE/ CONSTRUCTION REQUIREMENTS																		BASIS OF DESIGN INFORMATION															
		SUPPLY FAN					EXHAUST FAN					COOLING COIL				HEATING				MNF	MODEL NO.	NOMINAL DIMENSIONS LxWxH (IN.)	NOMINAL OPERATION WEIGHT (LBS)	ELECTRICAL DATA			MECHANICAL NOTES	ELECTRICAL NOTES							
		SUPPLY AIR (CFM)	BHP	MOTOR HP	EXT. S.P. (IN. W.G.)	TOTAL S.P. (IN. W.C.)	EXHAUST AIR (CFM)	BHP	MOTOR HP	EXT. S.P. (IN. W.G.)	S.P. (IN. W.C.)	OUTSIDE AIR FLOW (CFM)	NOMINAL TONNAGE	REFR. TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EER	AIR DATA	HEAT PUMP					HOT WATER	VOLTS/PHASE	MCA			MOCP						
RTU-1	ROOF	15760	20.17	25.00	2.25	4.24	9000	5.59	7.5	.950	4.24	6760	50	R410A	621.66	453.91	11.10	83.0/70.0	55.4/55.4	-	-	-	863.95	200.00	71.06	119.91	TRANE	SLHMF5044*56C7BDL11E0CU0V00A0042008A0	394.5" x 93.5" x 87.0"	9591	460/3	148.61	188.21	1,2,4,7,12,14-18	2,4,7,10,12
RTU-2	ROOF	6500	10.60	15.00	2.5	3.88	4000	1.13	3	0.75	3.88	2500	20	R410A	282.51	182.08	10.80	83.0/70.0	55.99/55.94	-	-	-	554.84	200.00	44.00	119.73	TRANE	SLHMF2043*36C5DDL11ECCU0V00A0042008A0	289.4" x 93.5" x 87.0"	5947	460/3	67	80	1,2,4,7,12,14-18	2,4,7,10,12
RTU-3	ROOF	1200	0.44	0.75	.500	0.72	350	-	-	-	-	850	3	R410A	36.41	28.02	12.50	80/67	59.53/57.73	31.99	70	94.33	-	-	-	TRANE	WHC036H4R0B**P6E1A1A60004010001000000000	69-7/8" x 44-1/4" x 40-7/8"	793	460/3	13	15	1,2,4,7,12,14,16-18	2,4,7,10,12	
RTU-4	ROOF	1200	0.44	0.75	.500	0.72	350	-	-	-	-	850	3	R410A	36.41	28.02	12.50	80/67	59.53/57.73	31.99	70	94.33	-	-	-	TRANE	WHC036H4R0B**P6E1A1A60004010001000000000	69-7/8" x 44-1/4" x 40-7/8"	793	460/3	13	15	1,2,4,7,12,14,16-18	2,4,7,10,12	
RTU-4	ROOF	1200	0.44	0.75	.500	0.72	350	-	-	-	-	850	3	R410A	36.41	28.02	12.50	80/67	59.53/57.73	31.99	70	94.33	-	-	-	TRANE	WHC036H4R0B**P6E1A1A60004010001000000000	69-7/8" x 44-1/4" x 40-7/8"	793	460/3	13	15	1,2,4,7,12,14,16-18	2,4,7,10,12	

MECHANICAL NOTES (NOT ALL APPLICABLE):

- 2" PLEATED MERV-13 FILTERS, PROVIDE WITH FOUR (4) SETS OF SPARE FILTER MEDIA.
- HINGED ACCESS DOORS
- LOW LEAK COMPARATIVE ENTHALPY ECONOMIZER.
- DIRTY FILTER INDICATOR SWITCH.
- SUPPLY FAN STATUS SWITCH
- HOT GAS REHEAT (HGRH) COIL.

ELECTRICAL NOTES (NOT ALL APPLICABLE):

- INTEGRAL DISCONNECT SWITCH [FIELD WIRED]
- INTEGRAL DISCONNECT SWITCH [FACTORY WIRED]
- INTEGRAL UNPOWERED RECEPTACLES [FIELD WIRED]
- INTEGRAL POWERED RECEPTACLES [FACTORY WIRED]
- INTEGRAL CONDENSATE PUMP [UNPOWERED]
- INTEGRAL CONDENSATE PUMP [POWERED]
- LOW VOLTAGE CONTROLS

MECHANICAL NOTES (NOT ALL APPLICABLE):

- PROVIDE NEW 14" INSULATED ROOF CURB AND THRU-BASE ELECTRICAL CONNECTIONS.
- PROVIDE NEW PROGRAMMABLE THERMOSTAT.
- MANUFACTURER TO PROVIDE BACNET INTERFACE CARD
- STAINLESS STEEL DRAIN PAN AND CONDENSATE OVERFLOW SWITCH, INTERLOCK TO TURN OFF UNIT.
- PHASE LOSS PROTECTION
- VERTICAL SUPPLY/RETURN DUCTWORK CONFIGURATION.
- CONDENSER HAIL GUARD

ELECTRICAL NOTES (NOT ALL APPLICABLE):

- PROVIDE WITH FACTORY CONTROLS.
- INTERNAL SPRING ISOLATORS ON FANS.
- PROVIDE VFD
- ZINC COATED AND GALVANIZED STEEL WEATHER RESISTANT CASING.
- ZINC COATED, HEAVY GAUGE, AND GALVANIZED STEEL WEATHER RESISTANT COATING.

MECHANICAL NOTES (NOT ALL APPLICABLE):

- LINE VOLTAGE CONTROLS
- INTEGRAL STARTERS
- MOTORIZED DAMPERS [24VAC]
- MOTORIZED DAMPERS [120VAC]
- MOTORIZED DAMPERS [120VAC]
- SINGLE POINT POWER FEED
- INDOOR UNIT POWERED FROM OUTDOOR UNIT
- ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
- ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT

ROOFTOP CONDENSING UNITS

EQMT. NO.	LOCATION	TYPE	UNITS SERVED	PERFORMANCE/ CONSTRUCTION REQUIREMENTS										BASIS OF DESIGN INFORMATION									
				REFRIGERANT	ESTIMATED CONDENSER CHARGE (LB)	REFRIGERANT PIPE CONNECTIONS (O.D.)	COOLING PERFORMANCE				HEATING				MANUF.	MODEL #	NOMINAL DIMENSIONS L x W x H (IN.)	NOMINAL OPERATING WEIGHT (LBS.)	ELECTRICAL DATA			NOTES	
							TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MIN OPER. TEMP. (°F)	MAX OPER. TEMP. (°F)	EER	IEER [SEER]	VOLTS/PHASE/ HZ	MCA					MOCP				
CU-1	SEE PLAN	AIR-COOLED	AHU-1	R410A	37	7/8	324.90	183.01	40	125	12.50	16.00	TRANE	RAUUC25	88-1/2" x 57-5/8" x 74-1/4"	1921	460/3/60	52.0	70.0	1-5			

NOTES:

- REFRIGERANT CHARGE IS SOLELY PRE-CHARGE FROM CONDENSERS. CONTRACTOR TO NOTIFY ENGINEER IF ADDITIONAL SYSTEM CHARGE IS REQUIRED.
- PROVIDE AND INSTALL REFRIGERANT PIPING SPECIALTIES PER MANUFACTURER'S RECOMMENDATIONS.
- ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
- CONTRACTOR TO PROVIDE 18" HIGH RAILS.

ELECTRICAL NOTES:

- LOW VOLTAGE CONTROLS
- SINGLE POINT POWER FEED
- ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH

MISTING SYSTEM PUMP

EQMT. NO.	SYSTEM SERVED	FLUID	PERFORMANCE (hp)	GPM	MINIMUM WORKING PRESSURE (PSI)	MAX WORKING PRESSURE (PSI)	ELECTRICAL DATA		MECHANICAL NOTES	ELECTRICAL NOTES
							VOLTS/PHASE	MOCP (A)		
MSP-1	SEE PLANS	WATER	5	8	1000	200	460/3	-	1	1,2,3
MSP-2	SEE PLANS	WATER	3	2	1000	200	460/3	-	1	1,2,3
MSP-3	SEE PLANS	WATER	1	40	100	150	460/3	-	1	1,2,3

AIR HANDLING UNITS

EQUIPMENT NO.	LOCATION	PERFORMANCE/ CONSTRUCTION REQUIREMENTS																		BASIS OF DESIGN INFORMATION										
		SUPPLY FAN					COOLING MODE				HEATING				MNF	MODEL NO.	NOMINAL DIMENSIONS LxWxH (IN.)	NOMINAL OPERATION WEIGHT (LBS)	ELECTRICAL DATA			MECHANICAL NOTES	ELECTRICAL NOTES							
		SUPPLY AIR (CFM)	BHP	MOTOR HP	EXT. S.P. (IN. W.G.)	TOTAL S.P. (IN. W.C.)	OUTSIDE AIR FLOW (CFM)	NOMINAL TONNAGE	REFR. TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	OA DB/WB (°F)	ENT. DB/WB (°F)	LVG. DB/WB (°F)					FLUID TYPE	FLOW RATE (GPM)	CAPACITY (MBH)			OA DB/WB (°F)	ENT. DB (°F)	LVG. DB (°F)	VOLTS/PHASE	FLA	MCA	MOCP
AHU-1	ROOF	5250	5.3	7.5	1.65	3.98	5250	32	R-410A	280.00	183.01	95/87	92/74	60.32/58.76	WATER	39.24	393.32	10/12	8.00	77.08	TRANE	CSAA014	147.7 x 72.0 x 47.7	2730	460/3	9.80	12.25	20.00	1-13	4,7,12,14

MECHANICAL NOTES:

- 2" PLEATED MERV-13 FILTERS, PROVIDE WITH FOUR (4) SETS OF SPARE FILTER MEDIA.
- HINGED ACCESS DOORS
- DIRTY FILTER INDICATOR SWITCH.
- SUPPLY FAN STATUS SWITCH
- PROVIDE NEW PROGRAMMABLE THERMOSTAT.
- MANUFACTURER TO PROVIDE BACNET INTERFACE CARD
- STAINLESS STEEL DRAIN PAN
- PHASE LOSS PROTECTION
- VERTICAL SUPPLY/RETURN DUCTWORK CONFIGURATION.
- PROVIDE VFD

ELECTRICAL NOTES (NOT ALL APPLICABLE):

- INTEGRAL DISCONNECT SWITCH [FIELD WIRED]
- INTEGRAL DISCONNECT SWITCH [FACTORY WIRED]
- INTEGRAL UNPOWERED RECEPTACLES [FIELD WIRED]
- INTEGRAL POWERED RECEPTACLES [FACTORY WIRED]
- INTEGRAL CONDENSATE PUMP [UNPOWERED]
- INTEGRAL CONDENSATE PUMP [POWERED]
- LOW VOLTAGE CONTROLS
- LINE VOLTAGE CONTROLS

ELECTRICAL NOTES (NOT ALL APPLICABLE):

- INTEGRAL STARTERS
- MOTORIZED DAMPERS [24VAC]
- MOTORIZED DAMPERS [120VAC]
- SINGLE POINT POWER FEED
- INDOOR UNIT POWERED FROM OUTDOOR UNIT
- ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
- ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT

LOUVER SCHEDULE

EQMT. TAG	LOCATION	PERFORMANCE/CONSTRUCTION REQUIREMENTS						BASIS OF DESIGN INFORMATION						NOTES
		CFM	EXT S. P. (IN. W.C.)	APPLICATION	FACE VELOCITY (FPM)	FREE AREA (FT²)	FRAME THICKNESS (IN.)	BLADE THICKNESS (IN.)	MNF	MODEL NO.	NOMINAL DIMENSIONS (W" x H" x D")	WEIGHT (LBS.)		
LV-1,2,3,4	SEE PLAN	15,649	.1	EXHAUST	863	17.92	0.081	0.081	GREENHECK	ESD-435	67 x 67 x 4	108	1-2	

NOTES:

- PROVIDE WITH BIRSDOREEN
- PROVIDE WITH CLIP-TYPE MOUNTING ANGLES. LOUVER TO BE REMOVABLE FROM WALL.

EXHAUST FANS

FAN NO.	PERFORMANCE/CONSTRUCTION REQUIREMENTS				BASIS OF DESIGN INFORMATION							
	CFM	EXT S. P. (IN. W.C.)	FAN/MOTOR RPM	BHP	MNF	MODEL NO.	NOMINAL DIMENSION (DIA" x H") (L" x W" x H")	WEIGHT (LBS.)	ELECTRICAL DATA	MOTOR HP	MECHANICAL NOTES	ELECTRICAL NOTES
EF-1	28000	0.28	482	7.02	GREENHECK	CUBE-480-VGD-75	74.19 x 60	770	460/3	7.5	1-5	2,7,12,17
EF-2	700	0.5	1361	0.12	GREENHECK	CUE-099-VG	24.88 x 40.25	88	277/1	0.25	1-5	2,7,10,12
EF-3	1000	0.5	1152	0.14	GREENHECK	CUE-120-VG	24.88 x 40.75	98	277/1	0.25	1-5	2,7,10,12
EF-4	1700	1.09	1689	0.57	GREENHECK	CUE-130-VG	24.88 x 40.75	123	277/1	0.75	1-5	2,7,10,12
EF-5	800	0.5	1724	0.17	GREENHECK	CUE-095-VG	22.25 x 27.75	83	277/1	0.16	1-5	2,7,10,12
EF-6	28000	0.28	482	7.02	GREENHECK	CUBE-480-VGD-75	74.19 x 60	770	460/3	7.5	1-5	2,7,12,17
EF-7	3400	0.6	840	0.75	GREENHECK	CUBE-200-VGD-7	36.75 x 41.13	223	460/3	0.75	1-5	2,7,12,17
EF-8	15649	0.28	477	1.81	GREENHECK	SBE-2L42-15	42.75" x 42.75"	173	460/3	1.5	1	2,7,12
EF-9	15649	0.28	477	1.81	GREENHECK	SBE-2L42-15	42.75" x 42.75"	173	460/3	1.5	1	2,7,12
EF-10	15649	0.28	477	1.81	GREENHECK	SBE-2L42-15	42.75" x 42.75"	173	460/3	1.5	1	2,7,12
EF-11	15649	0.28	477	1.81	GREENHECK	SBE-2L42-15	42.75" x 42.75"	173	460/3	1.5	1	2,7,12

MECHANICAL NOTES (NOT ALL APPLICABLE):

- MANUFACTURER PROVIDED DISCONNECT SWITCH
- PROVIDE WITH MANUFACTURER PROVIDED HOA CONTROLLER
- MANUFACTURER PROVIDED CURB
- MANUFACTURER PROVIDED DAMPER AND ACTUATOR
- HINGED ACCESS DOOR

ELECTRICAL NOTES (NOT ALL APPLICABLE):

- INTEGRAL DISCONNECT SWITCH [FIELD WIRED]
- INTEGRAL DISCONNECT SWITCH [FACTORY WIRED]
- INTEGRAL UNPOWERED RECEPTACLES [FIELD WIRED]
- INTEGRAL POWERED RECEPTACLES [FACTORY WIRED]
- INTEGRAL CONDENSATE PUMP [UNPOWERED]
- INTEGRAL CONDENSATE PUMP [POWERED]
- LOW VOLTAGE CONTROLS
- LINE VOLTAGE CONTROLS
- INTEGRAL STARTERS

ELECTRICAL NOTES (NOT ALL APPLICABLE):

- MOTORIZED DAMPERS [24VAC]
- MOTORIZED DAMPERS [120VAC]
- SINGLE POINT POWER FEED
- INDOOR UNIT POWERED FROM OUTDOOR UNIT
- ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
- ON SAME POWER FEED AS ASSOCIATED INDOOR UNIT
- MOTORIZED DAMPERS [208VAC]
- MOTORIZED DAMPERS [460VAC]

ELECTRIC HEAT TRACE

TAG	EQMT. SERVED	ROUTING	DESIGN CONDITIONS					BASIS OF DESIGN INFORMATION						REMARKS		
			NOMINAL PIPE SIZE (IN.)	MINIMUM OA TEMP. (°F)	PIPE TEMP. SETPOINT (°F)	STARTUP PIPE TEMP. (°F)	INSULATION			MNF	MODEL NO.	ELECTRICAL DATA				
							THICKNESS (IN.)	TYPE	LENGTH REQUIRED (FT)			POWER OUTPUT (W/FT)	POWER (KW)		VOLTS/PHASE	MOCP
HT-1	HHWS/R	HHWS/R RISER TO AHU-1	4	0	45	40	1	FIBERGLASS	20	THEMOM	5-FLX-1	5	0.1	120/1	20	1-2
HT-2	HHWS/R	HHWS/R RISER TO RTU-1	4	0	45	40	1	FIBERGLASS	20	THEMOM	5-FLX-1	5	0.1	120/1	20	1-2
HT-3	HHWS/R	HHWS/R RISER TO RTU-2	4	0	45	40	1	FIBERGLASS	20	THEMOM	5-FLX-1	5	0.1	120/1	20	1-2

NOTES:

- PROVIDE ALL REQUIRED TEMPERATURE SENSORS AND CONTROLS FOR A COMPLETELY FUNCTIONING HEAT TRACE SYSTEM.
- HEAT TRACE ASSOCIATED HOT WATER PIPING OUTDOORS, VALVES AND FITTINGS AS REQUIRED.

IN CHARGE OF: MJV
 CHECKED BY: _____
 MADE BY: KCM

H 2 M architects + engineers

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Meville, NY 11747, Albany, NY 12205, White Plains, NY 10604, New City, NY 10956, Parsippany, NJ 07054, Howell, NJ 07731

RECORD DRAWING CERTIFICATION

CONTRACTOR: _____ PROJECT COORDINATOR: _____

NAME: _____ NAME: _____

SIGNATURE: _____ SIGNATURE: _____

TITLE: _____ TITLE: _____

DATE: _____ DATE: _____

WESTCHESTER COUNTY, NEW YORK

DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

DIVISION OF ENGINEERING

Roof, HVAC and Electrical Upgrades
 Daniel P. Thomas Material Recovery Facility
 Yonkers, New York

HVAC SCHEDULES

CONTRACT NUMBER: 23-519 DRAWING NUMBER: M600

SHEET NO. 34 OF 48

SCALE: AS NOTED DATE: 06/07/2024

DPW FILE NO. _____ REV. NO. _____

93-02-M-306-0

ELECTRICAL LEGENDS

SYMBOL	DESCRIPTION	COMMENTS
S ^A	SINGLE POLE SWITCH; "A" INDICATES SWITCH CONTROL.	46" AFF TO CL UON
S _T	SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)	
S _{OSVS}	OCCUPANCY/VACANCY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT	
TC	TIME CLOCK	
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING	
	3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB	
	DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT NO. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING	
	SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
	DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT.	FLUSH
	ISOLATED GROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP.	AS PER ENGINEER
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF.	AS PER ENGINEER
	SPECIAL PURPOSE OUTLET: 240V, 40A. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	AS PER ENGINEER
	TWISTED LOCK RECEPTACLE: 125V, 20A, 3 WIRE; UNLESS OTHERWISE NOTED.	AS PER ENGINEER
	MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE	
	DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.	
	JUNCTION BOX.	
	TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE.	
	ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE.	
	ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.	
	CONDUIT GOING UP.	
	CONDUIT GOING DOWN.	

LIST OF DRAWINGS

E 001	ELECTRICAL LEGENDS, FIRE ALARM RISER DIAGRAM, DETAILS, NOTES AND SCHEDULE
ED 110	ELECTRICAL TIPPING FLOOR FIRST FLOOR DEMOLITION PLAN
ED 111	ELECTRICAL TRANSFER STATION FIRST FLOOR DEMOLITION PLAN
ED 120	ELECTRICAL TIPPING FLOOR PARTIAL SECOND FLOOR DEMOLITION PLAN
ED 130	ELECTRICAL PAPER HOUSE AND SHIPPING HOUSE PARTIAL ROOF DEMOLITION PLAN
ED 131	ELECTRICAL TIPPING FLOOR PARTIAL ROOF DEMOLITION PLAN
ED 132	ELECTRICAL TRANSFER STATION ROOF DEMOLITION PLAN
E 110	ELECTRICAL TIPPING FLOOR PARTIAL FIRST FLOOR HVAC POWER PLAN
E 120	ELECTRICAL TIPPING FLOOR PARTIAL SECOND FLOOR HVAC POWER PLAN
E 130	ELECTRICAL PAPER HOUSE AND SHIPPING HOUSE PARTIAL ROOF HVAC POWER PLAN
E 131	ELECTRICAL TIPPING FLOOR PARTIAL ROOF HVAC POWER PLANS
E132	ELECTRICAL TRANSFER STATION ROOF HVAC POWER PLAN
E 200	ELECTRICAL TIPPING FLOOR FIRST FLOOR LIGHTING PLAN
E 201	ELECTRICAL TRANSFER STATION FIRST FLOOR LIGHTING PLAN

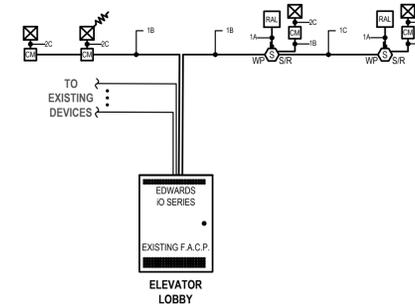
SYMBOLS LEGEND

	ROOM DESIGNATION
	BUILDING SECTION CUT
	WALL SECTION CUT
	DETAIL KEY
	ELEVATION KEY
	COLUMN GRID
	ELEVATION LINE
	DRAWING TITLE
	INTERIOR ELEVATION REFERENCE
	SEE NOTE # ON DWG #

ABBREVIATION	DESCRIPTION	COMMENTS
AFF	ABOVE FINISHED FLOOR	
AFC	ABOVE FINISHED CEILING	
AFCI	ARC FAULT CIRCUIT INTERRUPTER	
AHJ	AUTHORITY HAVING JURISDICTION	
AMP, A	AMPERE	
ATS	AUTOMATIC TRANSFER SWITCH; SEE TRANSFER SWITCH SCHEDULE	
AWG	AMERICAN WIRE GAUGE	
CL	CENTERLINE	
E.C.	ELECTRICAL CONDUIT	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
GFEP	GROUND FAULT EQUIPMENT PROTECTOR	
GFI	GROUND FAULT INDICATOR	
GND	GROUND	
HACR	HEATING, A/C AND REFRIGERATION	
MCB	MAIN CIRCUIT BREAKER	
MCC	MOTOR CONTROL CENTER	
MLO	MAIN LUGS ONLY	
NTS	NOT TO SCALE	
TYP	TYPICAL	
UON	UNLESS OTHERWISE NOTED	
V	VOLT	
VAC	VOLTS ALTERNATING CURRENT	
VDC	VOLTS DIRECT CURRENT	
X-FMR	TRANSFORMER	
WP	WEATHERPROOF	

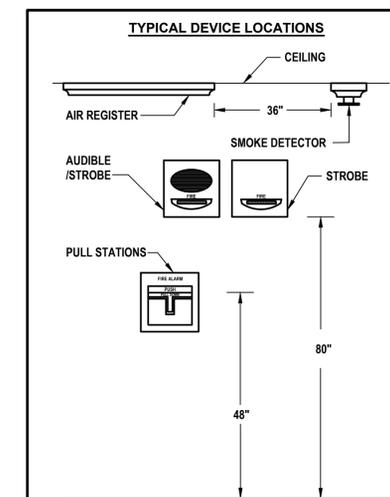
ELECTRICAL GENERAL FIRE ALARM NOTES:

- ALL WIRING TO BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE AND N.F.P.A 72 AS REQUIRED BY LOCAL ORDINANCE.
- ALL CONDUCTORS MUST BE TEST FREE OF OPENS, SHORTS AND GROUNDS.
- GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE No. 12 AWG.
- ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT.
- FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS REQUIREMENTS.
- REFER TO CONTRACT DRAWINGS FOR APPROXIMATE DEVICE LOCATIONS. DRAWINGS REPRESENT DEVICE QUANTITIES. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING SCALED LOCATIONS. CONTRACTOR TO SUBMIT PLANS STAMPED BY LICENSED NEW YORK PROFESSIONAL ENGINEER ONLY. SHOP DRAWINGS WITHOUT P.E STAMP WILL BE AUTOMATICALLY REJECTED.
- CONTRACTOR RESPONSIBLE TO PATCH & PAINT ALL OPENINGS AS A RESULT OF REMOVAL OF EXISTING EQUIPMENT.
- INSTALL DETECTORS A MINIMUM OF 3'-0" FROM ANY SUPPLY OR RETURN AIR REGISTERS. COORDINATE EXACT LOCATIONS OF SUPPLY/RETURNS REGISTERS WITH MECHANICAL CONTRACTOR
- WHEN INSTALLING SHIELDED CABLE THE FOLLOWING MUST BE OBSERVED:
 - METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE CABLE RUN.
 - THE CABLE SHIELD MUST BE ISOLATED FROM GROUND AND TERMINATED ONLY IN THE ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS. THE REMOTE END OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM GROUND.
- ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED. ALL ALARM INDICATING APPLIANCES SHALL SOUND A TEMPORAL 3' CODE PATTERN AND TEMPORAL 4' CODE PATTERN FOLLOWED BY "CARBON MONOXIDE DETECTED" FOR CARBON MONOXIDE ALARM.
- AFTER ALARM INDICATION, ALL FANS SHALL BE MANUALLY RESET INDEPENDENT FROM F.A.C.P. SYSTEM RESET. PROVIDE ALL REQUIRED HARDWARE ACCESSORIES, MOTOR STARTERS, CONTROLS, POWER AND CONTROL WIRING AND CONDUITS TO PROVIDE INDEPENDENT RESET OF ALL FANS AFTER ALARM INDICATION.
- INSTALL ALL DEVICES IN ACCORDANCE WITH A.D.A REQUIREMENTS. ALL DEVICES SHALL BE MOUNTED AS FOLLOWS:
 - MANUAL PULL STATIONS 48" O.C.
 - ALARM INDICATING APPLIANCE 80" A.F.F.
 - VERIFY WITH CONTRACT SPECIFICATIONS FOR ANY DEVIATIONS.
- ALL EQUIPMENT TO BE RECESSED MOUNTED AND ALL WIRING AND CONDUIT TO BE RUN CONCEALED
- PROVIDE AND INSTALL ALL NECESSARY CONTROL MODULES, SYNCHRONIZATION MODULES AND MONITOR MODULES AS REQUIRED BY MANUFACTURER.
- FIRE ALARM RISER DIAGRAM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES AND QUANTITIES.
- ALL HVAC EQUIPMENT WITH A CFM RATING OF 1000 CFM OR GREATER SHALL BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ALARM ACTIVATION. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH REMOTE LED'S FOR ALL HVAC UNITS WITH A CFM RATING OF 2000 CFM OR GREATER. CONTRACTOR SHALL INTERFACE WITH ALL EXISTING STARTERS AND PROVIDE NEW STARTERS WHERE REQUIRED.
- PLENUM WIRING TO BE USED IN ALL AREAS. CONDUIT MUST BE USED IN ALL MECHANICAL AND ELECTRICAL ROOMS. CONDUIT MUST ALSO BE USED IN ALL AREAS WITH OPEN CEILINGS.



1 Fire Alarm Riser Diagram (Note 15)
SCALE: NTS

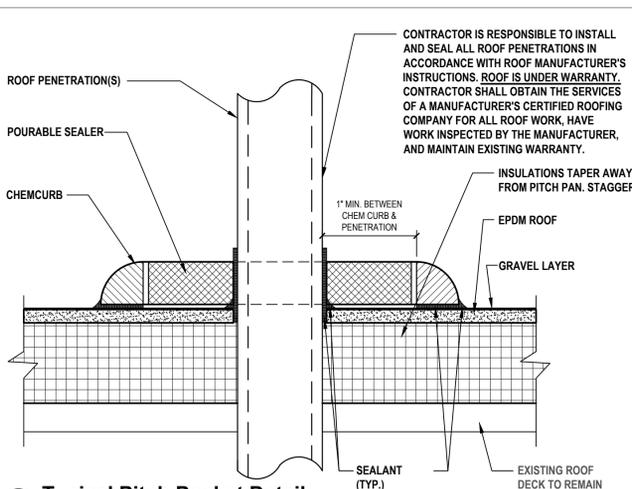
WIRE LEGEND		
WIRE DESCRIPTION		TYPE
A	1 PAIR #18 AWG. NON SHIELDED	FPLP
B	1 PAIR #14 AWG. NON SHIELDED	FPLP
C	#14 AWG. NON SHIELDED	THHN



2 Typical Fire Alarm Device Location
SCALE: NTS

	CONTROL UNIT ANNUNCIATION	NOTIFICATION	SUPPLEMENTARY
ACTIVATE COMMON ALARM SIGNAL INDICATOR			
ACTIVATE VISUAL ALARM SIGNAL			
ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR			
ACTIVATE COMMON TROUBLE SIGNAL			
ACTIVATE ZONE INDICATION			
ACTIVATE FULL BUILDING EVACUATION SIGNAL			
DISPLAY CHANGE OF STATUS			
TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION			
TRANSMIT SUPERVISION SIGNAL TO SUPERVISING STATION			
TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION			
HVAC FAN SHUTDOWN			
INITIATE EXTERIOR STROBE			
MANUAL PULL STATION	●	●	●
SMOKE DETECTOR	●	●	●
HEAT DETECTOR	●	●	●
DUCT DETECTOR	●	●	●
CARBON MONOXIDE DETECTOR	●	●	●
FIRE PANEL AC POWER FAILURE	●	●	●
FA SYSTEM LOW BATTERY	●	●	●
OPEN CIRCUIT	●	●	●
GROUND FAULT	●	●	●
NOTIFICATION APPLIANCE CIRCUIT SHORT	●	●	●

3 Fire Alarm Sequence of Operation
SCALE: NTS



5 Typical Pitch Pocket Detail
SCALE: NTS

PITCH POCKET DETAIL NOTE:

PP1 CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL EQUIPMENT INSTALLER. WHERE CONTRACTOR IS UNABLE TO PENETRATE AT THE SAME LOCATION AS MECHANICAL INSTALLER, CONTRACTOR SHALL BE RESPONSIBLE FOR PENETRATING ROOF SO AS TO NOT VOID EXISTING MANUFACTURER'S WARRANTY.

INTERIOR LIGHTING FIXTURE SCHEDULE

DESIGNATION	SYMBOL	MFG.	MODEL NUMBER	TYPE	WATTS	COLOR TEMP.	VOLT	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT	DETAIL
F1		ILP	EDV4-48L-U-40-FRL-HB-6 0-18Y- PAD	LED	327	4000K	UNV	44479	PENDANT	ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO SECURELY MOUNT TO BUILDING STRUCTURE	34'-6" AFF (MAIN TIPPING AREA) 23'-6" AFF (TIPPING AREA)	
EM		COMPASS	CSWEU2LED	LED	1.9	-	UNV	-	SURFACE (WALL MOUNTED)	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY	8'-0" AFF	

DISCONNECT SWITCH SCHEDULE

DISCONNECT SWITCH IDENTIFICATION	TYPE	ENCLOSURE	VOLTS	POLES	FRAME SIZE AMPS	FUSE RATING
DS1	UNFUSED	NEMA 3R	600	3	30	-

IN CHARGE OF _____
CHECKED BY _____
MADE BY _____

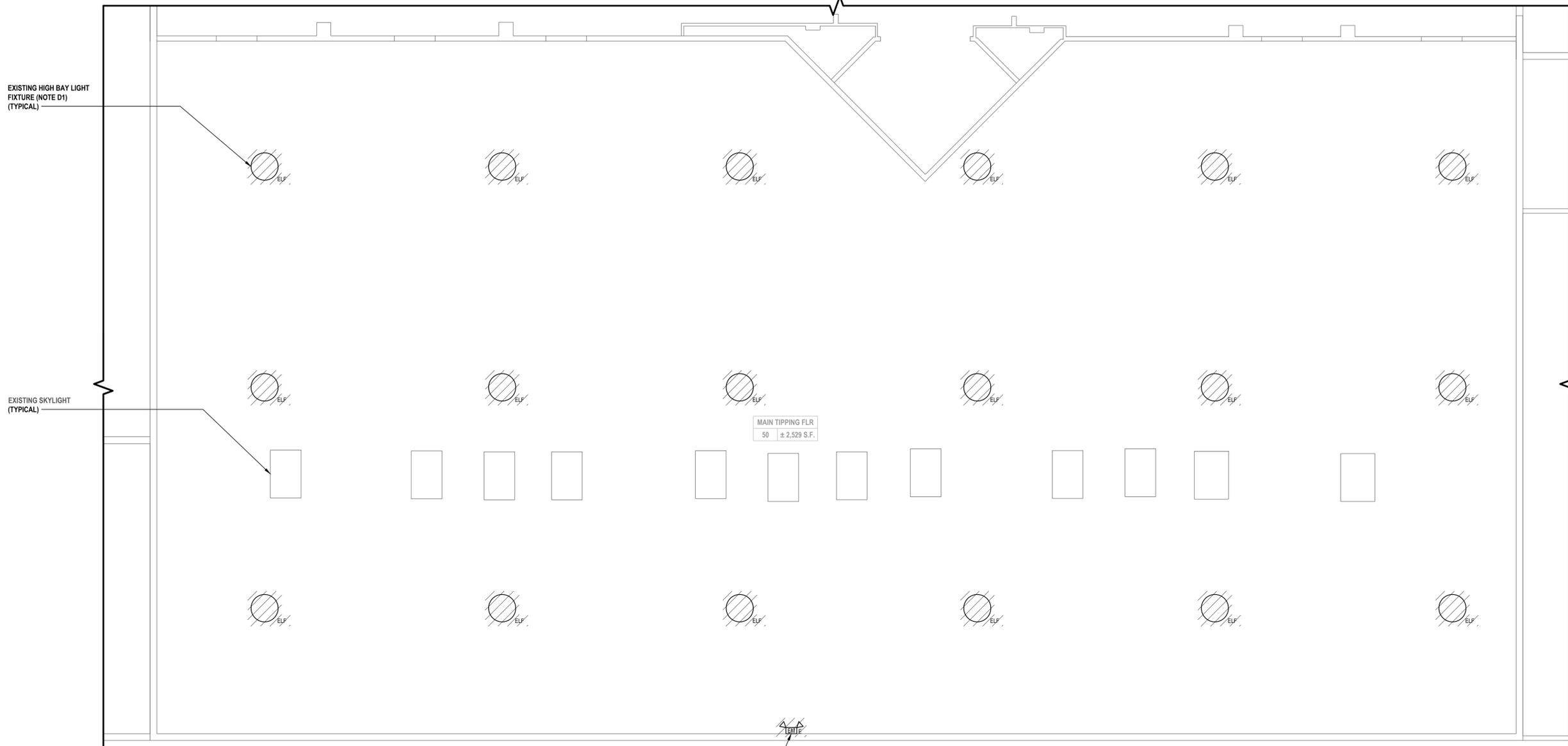
STATE OF NEW YORK
JEREMY WOODGATE
LICENSED PROFESSIONAL ENGINEER
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Parisippany, NJ 07054
Howell, NJ 07731

1	10/30/2024	LK	LK	BID SUBMISSION
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RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME	DATE	NAME	DATE	DATE
SIGNATURE	TITLE	SIGNATURE	TITLE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 23-519
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				DRAWING NUMBER E 001
ELECTRICAL LEGENDS, FIRE ALARM RISER DIAGRAM, DETAILS, NOTES AND SCHEDULE				SHEET NO. 35 OF 48
SCALE: AS NOTED DATE: 06/07/2024 DPW FILE NO.				REV. NO. 0
93-02-E-307-0				0



1 Electrical Tipping Floor First Floor Demolition Plan
SCALE: 1/8"=1'-0"

LEGEND	
	- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

- ELECTRICAL DEMOLITION GENERAL NOTES:**
- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVALS FOR THE ITEMS IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
 - GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
 - GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
 - GD3. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.

- ELECTRICAL DEMOLITION KEY NOTE:**
- D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING CEILING PENDANT MOUNTED HIGH BAY LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO BALLAST, BULBS, HOUSING IN THIS AREA ONLY. ALL EXISTING SWITCHES, WIRE AND CONDUIT TO REMAIN. PROVIDE AND EXTEND WIRE AND CONDUIT FROM THE EXISTING LIGHTING CIRCUIT SERVING THIS AREA TO TERMINATE AT NEW LIGHT FIXTURES. WIRE AND CONDUIT SHALL BE 2 #10 AWG + #10 AWG GND IN 3/4" E.C. REFER TO ASSOCIATED CONSTRUCTION PLAN FOR ADDITIONAL INFORMATION.
 - D2. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WALL MOUNTED EMERGENCY LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO BALLAST, BULBS, HOUSING IN THIS AREA ONLY. EXISTING WIRE AND CONDUIT TO REMAIN. PROVIDE AND EXTEND WIRE AND CONDUIT FROM THE EXISTING CIRCUIT SERVING THIS AREA TO TERMINATE AT NEW WALL MOUNTED LIGHT FIXTURES. CONTRACTOR SHALL NOTE THERE ARE MULTIPLE NEW EMERGENCY LIGHT FIXTURES TO UTILIZE THIS UNSWITCHED CIRCUIT. WIRE AND CONDUIT SHALL BE 2 #10 AWG + #10 AWG GND IN 3/4" E.C. REFER TO ASSOCIATED CONSTRUCTION PLAN FOR ADDITIONAL INFORMATION. ALL EXISTING EXIT SIGNS TO REMAIN.

IN CHARGE OF _____
 CHECKED BY _____
 MADE BY _____

EXISTING EMERGENCY LIGHT (NOTE D2)

STATE OF NEW YORK
WESTCHESTER COUNTY
LIBERTY PROFESSIONAL ENGINEER
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	LK	LK	BID SUBMISSION

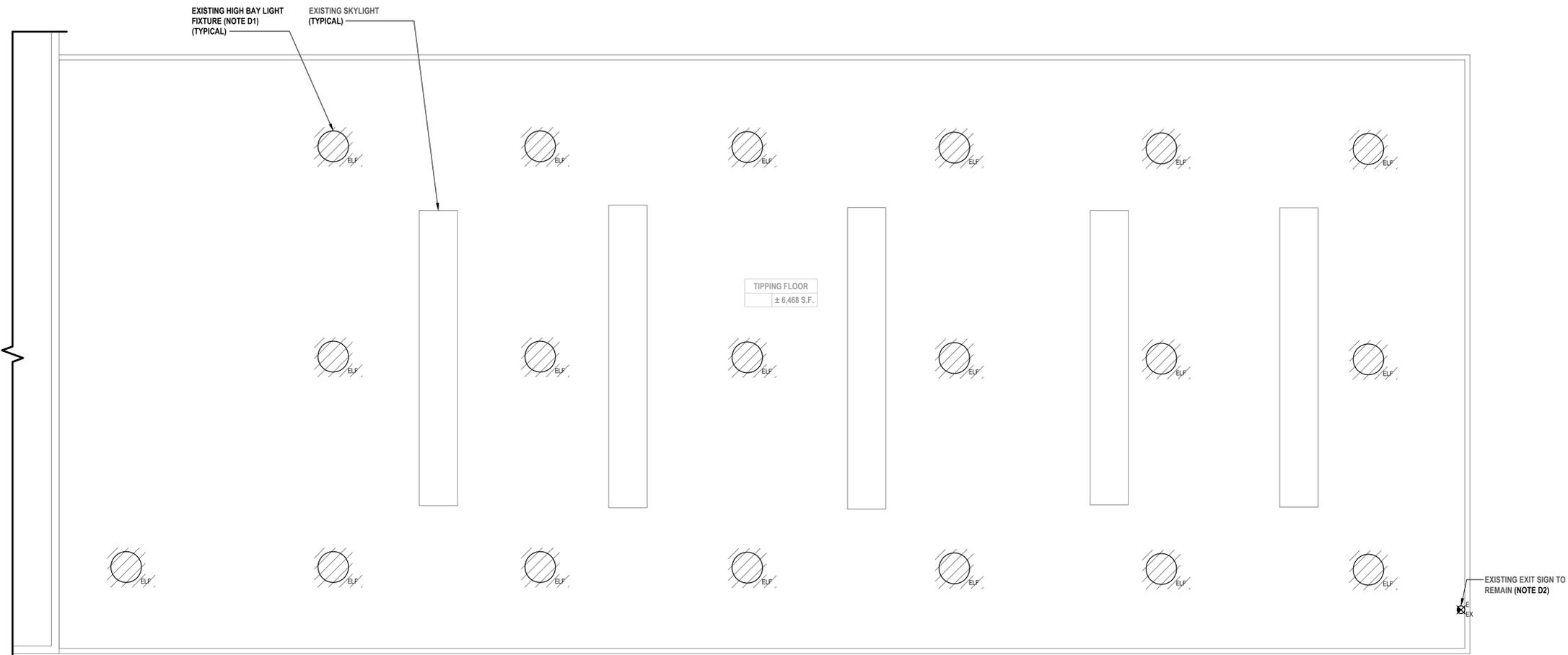
RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____

WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	ED 110
DIVISION OF ENGINEERING		SHEET NO. 36	OF 48
Roof, HVAC and Electrical Upgrades		SCALE: AS NOTED	DATE: 06/07/2024
Daniel P. Thomas Material Recovery Facility		DPW FILE NO.	REV. NO.
Yonkers, New York		93-02-E-308-0	0

ELECTRICAL MAIN TIPPING FLOOR DEMOLITION PLAN



1 Electrical Transfer Station First Floor Demolition Plan
SCALE: 1/8"=1'-0"

LEGEND	
	- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

ELECTRICAL DEMOLITION GENERAL NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVALS FOR THE ITEMS IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD3. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.

ELECTRICAL DEMOLITION KEY NOTE:

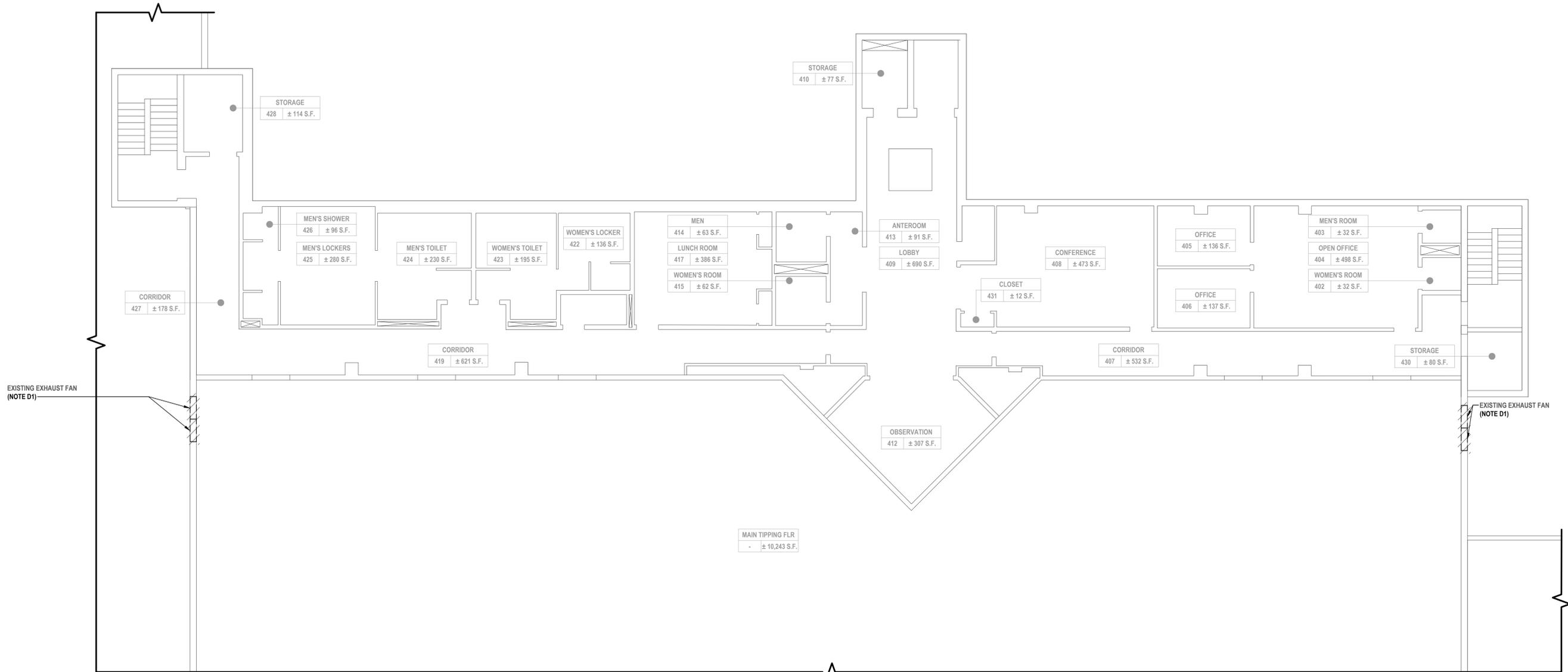
- D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING CEILING PENDANT MOUNTED HIGH BAY LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO BALLAST, BULBS, HOUSING IN THIS AREA ONLY. ALL EXISTING SWITCHES, WIRE AND CONDUIT TO REMAIN. PROVIDE AND EXTEND WIRE AND CONDUIT FROM THE EXISTING LIGHTING CIRCUIT SERVING THIS AREA TO TERMINATE AT NEW LIGHT FIXTURES. WIRE AND CONDUIT SHALL BE 2 #10 AWG + #10 AWG GND IN 3/4" E.C. REFER TO ASSOCIATED CONSTRUCTION PLAN FOR ADDITIONAL INFORMATION.
- D2. CONTRACTOR SHALL PROVIDE AND EXTEND EXISTING WIRE AND CONDUIT SERVING THE EXISTING EXIT SIGN TO PROVIDE UNSWITCHED CIRCUIT FOR NEW EMERGENCY WALL MOUNTED LIGHT FIXTURES. REFER TO ASSOCIATED CONSTRUCTION PLAN FOR LOCATION OF NEW EMERGENCY WALL MOUNTED LIGHT FIXTURES. WIRE AND CONDUIT SHALL BE 2 #10 AWG + #10 AWG GND IN 3/4" E.C. ALL EXISTING EXIT SIGNS TO REMAIN.

IN CHARGE OF _____
CHECKED BY _____
MADE BY _____

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1	10/30/2024	LK	LK	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 23-519 DRAWING NUMBER ED 111
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				SHEET NO. 37 OF 48 SCALE: AS NOTED DATE: 06/07/2024 DPW FILE NO. _____ REV. NO. _____
ELECTRICAL TIPPING FLOOR DEMOLITION PLAN				93-02-E-309-0 0



1 Electrical Tipping Floor Partial Second Floor Demolition Plan
 SCALE: 1/8"=1'-0"

LEGEND	
	- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

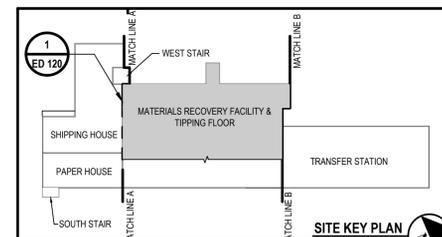
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- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING, PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.
- GD5. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL DEMOLITION KEY NOTE:

- D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, CIRCUIT BREAKER, WIRE AND CONDUIT BACK TO SOURCE. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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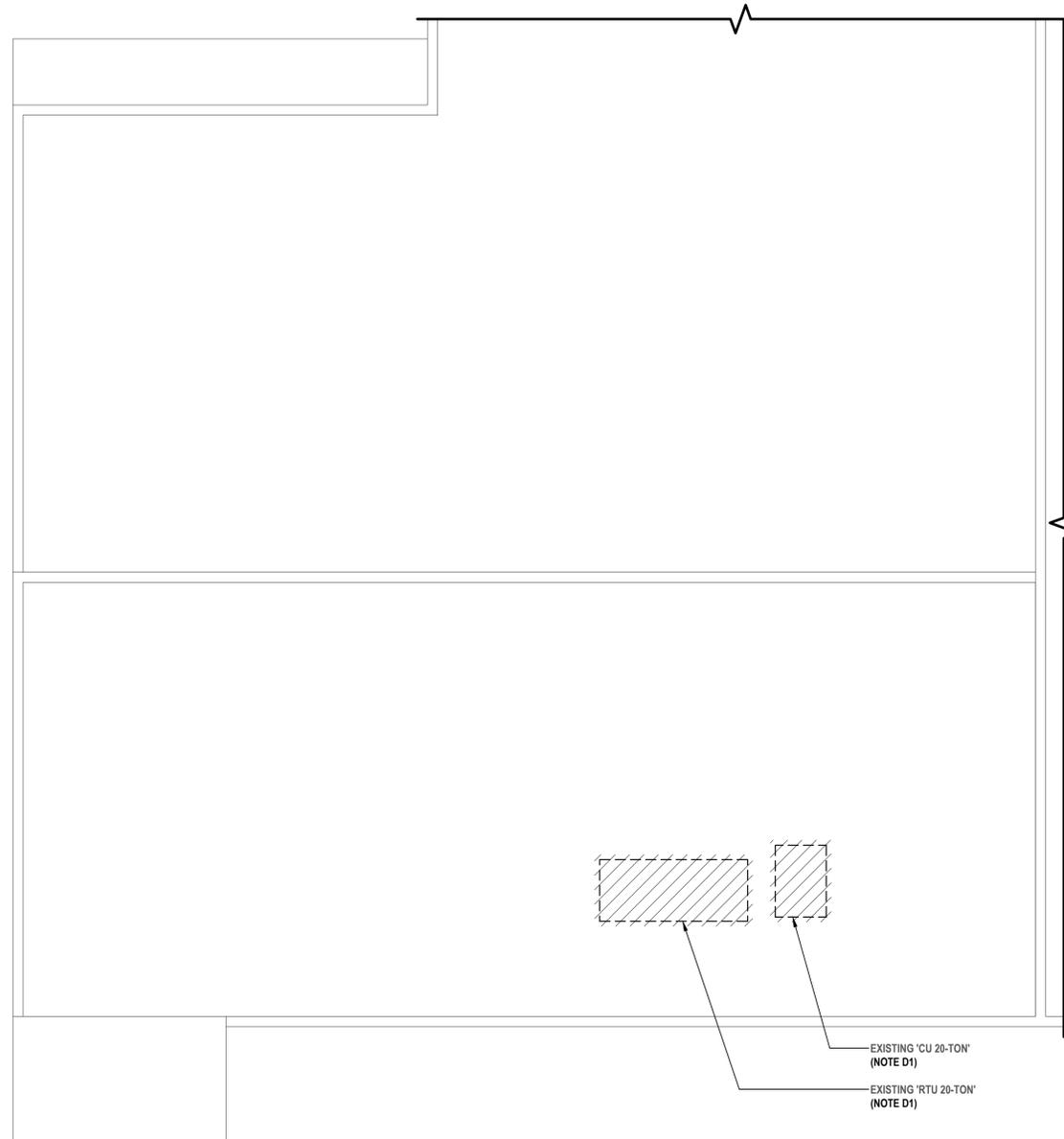
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STATE OF NEW YORK
 ARCHITECT
 02253
 PROFESSIONAL ENGINEER

1	10/30/2024	LK	LK	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED		<input type="checkbox"/> AS BUILT - NO CHANGES		
CONTRACTOR		PROJECT COORDINATOR		
NAME	NAME	DATE	DATE	
SIGNATURE	SIGNATURE			
TITLE	TITLE			
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	ED 120	
DIVISION OF ENGINEERING		SHEET NO. 38 OF 48		
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York		SCALE: AS NOTED	DATE: 06/07/2024	
		DPW FILE NO.	REV. NO.	
		93-02-E-310-0	0	
ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN				



LEGEND	
	- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

ELECTRICAL DEMOLITION GENERAL NOTES:

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ELECTRICAL DEMOLITION KEY NOTE:

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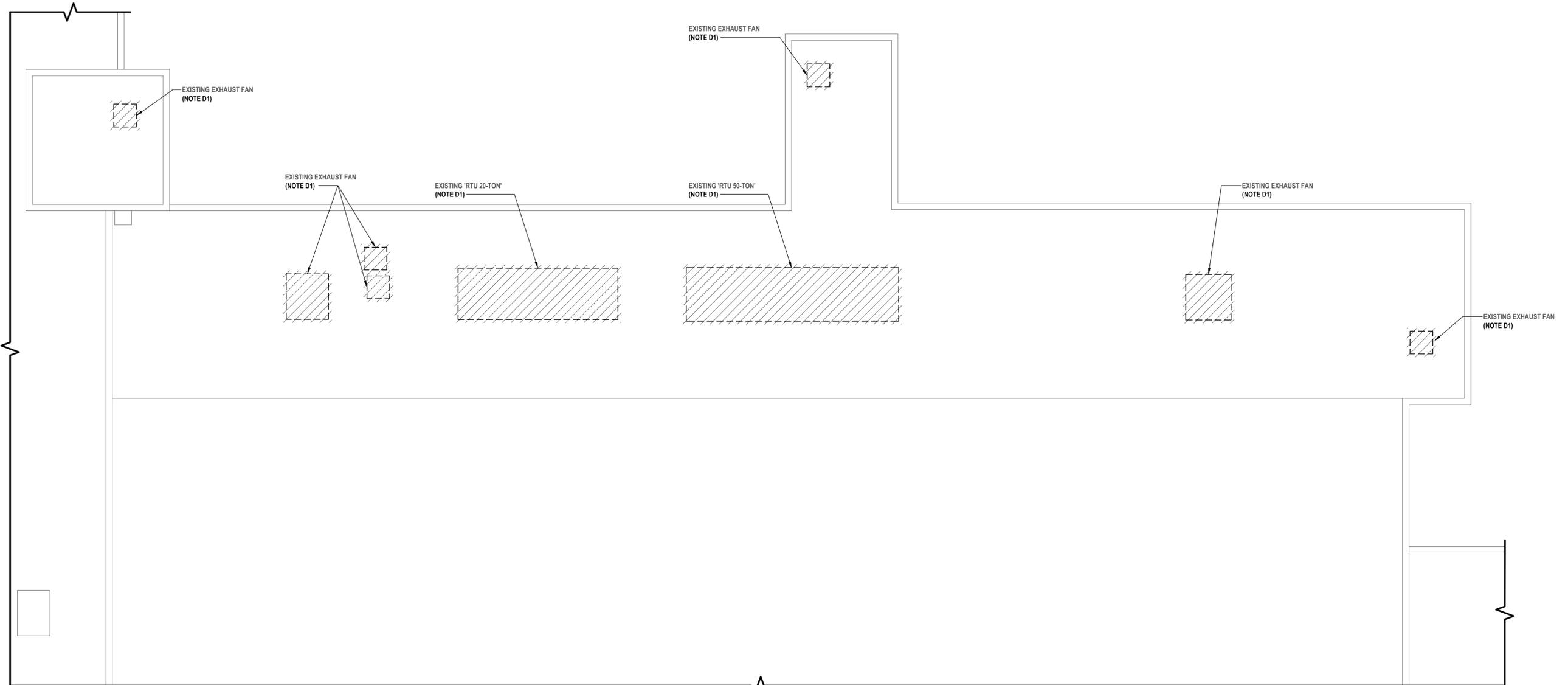
1 Electrical Paper House And Shipping House Partial Roof Demolition Plan
SCALE: 1/8"=1'-0"

IN CHARGE OF _____
 CHECKED BY _____
 MADE BY _____

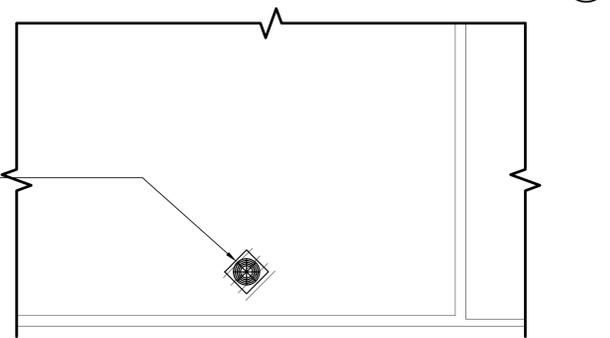
H 2 architects + engineers
 2700 Westchester Avenue
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 New City, NY 10956
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME _____	NAME _____	DATE _____		
SIGNATURE _____	SIGNATURE _____	DATE _____		
TITLE _____	TITLE _____	DATE _____		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING				CONTRACT NUMBER 23-519 DRAWING NUMBER ED 130
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				SHEET NO. 39 OF 48 SCALE: AS NOTED DATE: 06/07/2024 DPW FILE NO. _____ REV. NO. _____
ELECTRICAL PARTIAL ROOF DEMOLITION PLAN A				93-02-E-311-0 0



1 Electrical Tipping Floor Partial Roof Demolition Plan
SCALE: 1/8"=1'-0"

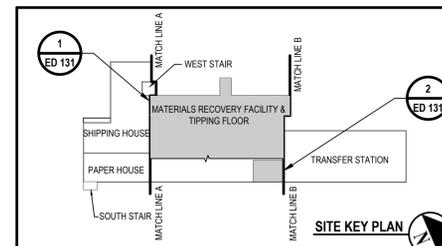


2 Electrical Tipping Floor Partial Roof Demolition Plan
SCALE: 1/8"=1'-0"

LEGEND	
	- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

- ELECTRICAL DEMOLITION GENERAL NOTES:**
- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVALS FOR THE ITEMS IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
 - GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
 - GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
 - GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.
 - GD5. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.
- ELECTRICAL DEMOLITION KEY NOTE:**
- D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, CIRCUIT BREAKER, WIRE AND CONDUIT BACK TO SOURCE. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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 LIBERTY AND JUSTICE UNDER LAWS
 PROFESSIONAL ENGINEER
 192595

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1	10/30/2024	LK	LK	BID SUBMISSION

RECORD DRAWING CERTIFICATION

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 AS BUILT - NO CHANGES

CONTRACTOR NAME: _____ PROJECT COORDINATOR NAME: _____
 CONTRACTOR SIGNATURE: _____ PROJECT COORDINATOR SIGNATURE: _____
 CONTRACTOR TITLE: _____ PROJECT COORDINATOR TITLE: _____

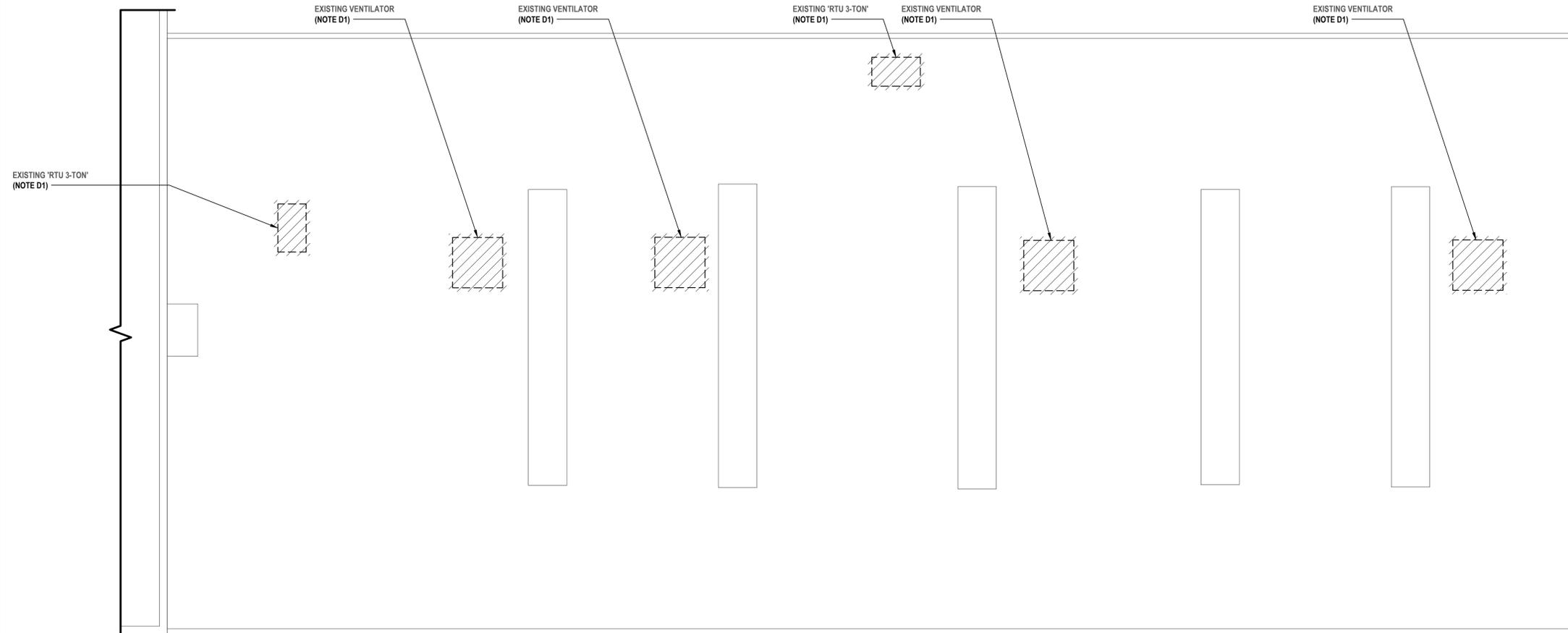
WESTCHESTER COUNTY, NEW YORK
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 DIVISION OF ENGINEERING

CONTRACT NUMBER: 23-519 DRAWING NUMBER: ED 131
 SHEET NO. 40 OF 48

Roof, HVAC and Electrical Upgrades
 Daniel P. Thomas Material Recovery Facility
 Yonkers, New York

SCALE: AS NOTED
 DATE: 06/07/2024
 DPW FILE NO. _____ REV. NO. 0

ELECTRICAL PARTIAL ROOF DEMOLITION PLAN B
 93-02-E-312-0 0



1 Electrical Transfer Station Roof Demolition Plan
SCALE: 1/8"=1'-0"

LEGEND	
	- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

ELECTRICAL DEMOLITION GENERAL NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVALS FOR THE ITEMS IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.
- GD5. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL DEMOLITION KEY NOTE:

- D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, CIRCUIT BREAKER, WIRE AND CONDUIT BACK TO SOURCE. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

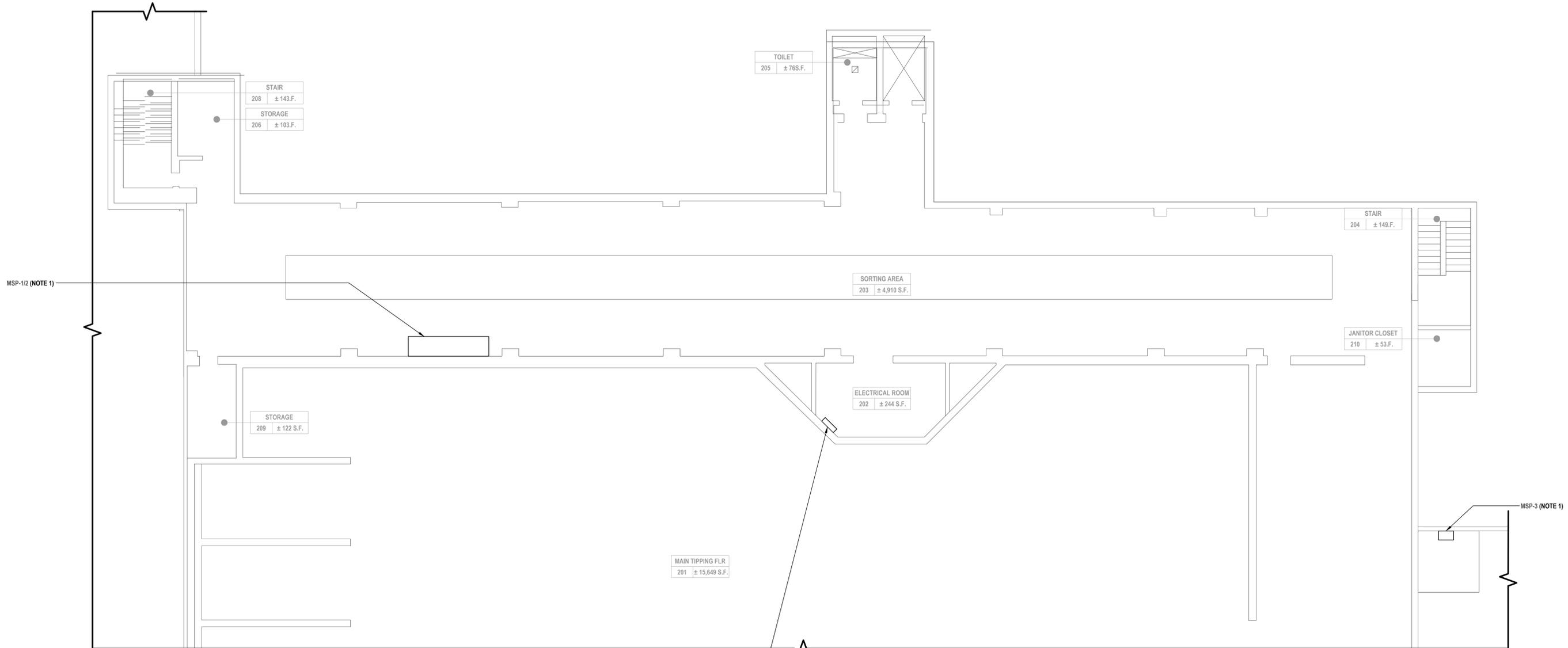
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1	10/30/2024	LK	LK	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/>	AS BUILT - CHANGES AS NOTED			
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CONTRACTOR		PROJECT COORDINATOR		
NAME _____	NAME _____	DATE _____		
SIGNATURE _____	SIGNATURE _____	DATE _____		
TITLE _____	TITLE _____	DATE _____		
WESTCHESTER COUNTY, NEW YORK				CONTRACT NUMBER 23-519
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				DRAWING NUMBER ED 132
DIVISION OF ENGINEERING				SHEET NO. 41 OF 48
Roof, HVAC and Electrical Upgrades				SCALE: AS NOTED
Daniel P. Thomas Material Recovery Facility				DATE: 06/07/2024
Yonkers, New York				DPW FILE NO.
ELECTRICAL PARTIAL ROOF DEMOLITION PLAN C				REV. NO. 0
93-02-E-313-0				0



1 Electrical Tipping Floor Partial First Floor HVAC Power Plan
 SCALE: 1/8"=1'-0"

EXISTING 277/480V 3Ø
 PANEL "DP-CP1"
 (SIEMENS P4) SURFACE
 MOUNTED

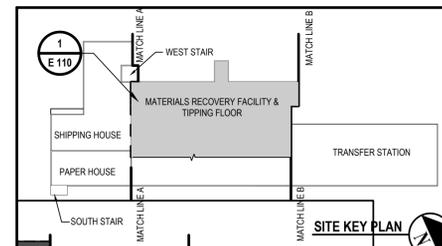
ELECTRICAL GENERAL NOTES:

- G1. ALL NEW CIRCUIT BREAKER SHALL BE LISTED/LABELLED FOR USE IN EXISTING MCC AND/OR PANEL. PROVIDE ALL MOUNTING HARDWARE, BUSS DETAIL AND FACEPLATES (DEAD FRONT) AS REQUIRED. AMPERE INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING MCC AND/OR PANEL RATING.
- G2. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL KEY NOTES:

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING CIRCUIT BREAKER, WIRE AND CONDUIT TO EXISTING "DP-CP1".
 - 1. MSP-1/2:
 - 1.1. CIRCUIT BREAKER: 30A/3P
 - 1.2. WIRE AND CONDUIT: 3 #10 AWG + #10 AWG GND IN 3/4" E.C.
 - 1.3. PROVIDE AND INSTALL THERMAL SWITCH
 - 2. MSP-3:
 - 2.1. CIRCUIT BREAKER: 15A/3P
 - 2.2. WIRE AND CONDUIT: 3 #12 AWG + #12 AWG GND IN 3/4" E.C.
 - 2.3. PROVIDE AND INSTALL THERMAL SWITCH

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 CHECKED BY _____
 MADE BY _____



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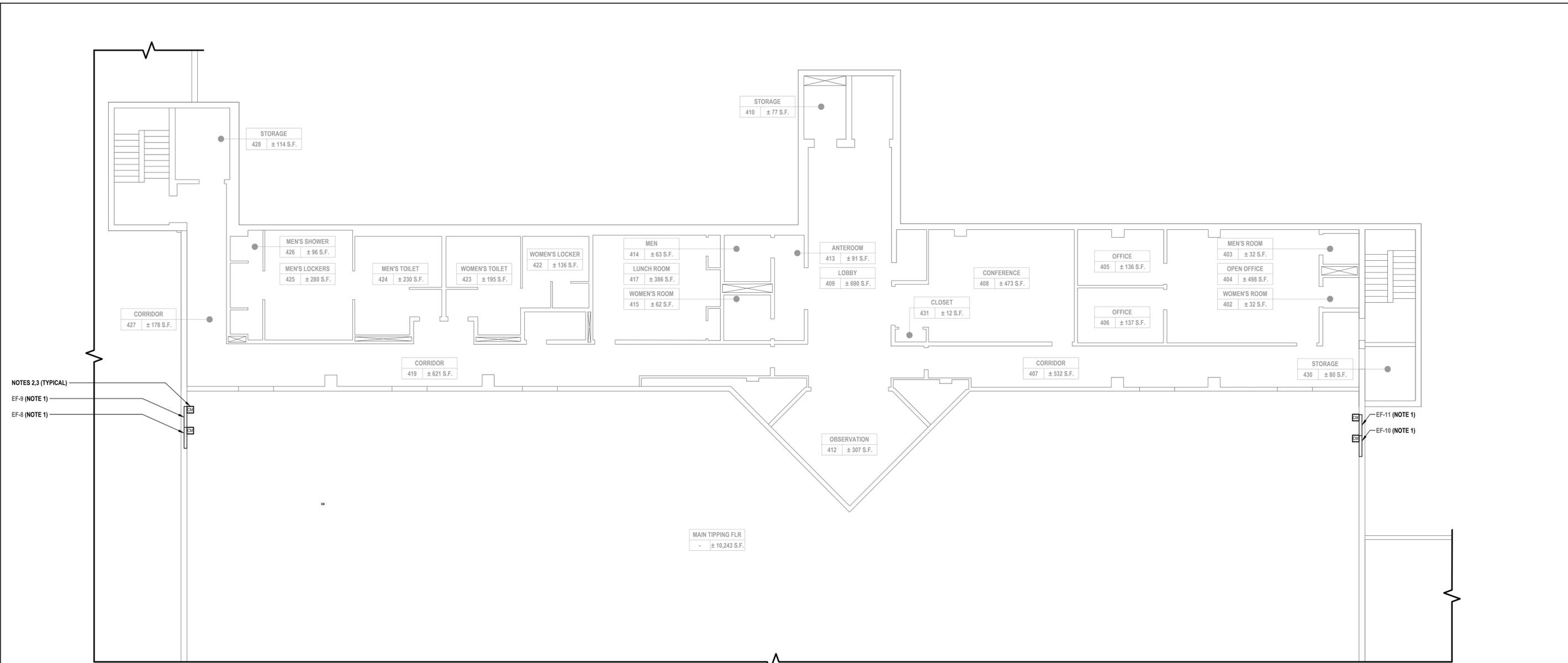
STATE OF NEW YORK
 ARCHITECTS
 LICENSE NO. 192585
 PROFESSIONAL ENGINEER

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	LK	LK	BID SUBMISSION

RECORD DRAWING CERTIFICATION

- AS BUILT - CHANGES AS NOTED
- AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	DATE _____	DATE _____
SIGNATURE _____	SIGNATURE _____	TITLE _____	TITLE _____
WESTCHESTER COUNTY, NEW YORK			
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION			
DIVISION OF ENGINEERING			
Roof, HVAC and Electrical Upgrades		CONTRACT NUMBER	DRAWING NUMBER
Daniel P. Thomas Material Recovery Facility		23-519	E 110
Yonkers, New York		SHEET NO. 42 OF 48	SCALE: AS NOTED
		DATE: 06/07/2024	DPW FILE NO.
			REV. NO.
ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN		93-02-E-314-0	0



1 Electrical Tipping Floor Partial Second Floor HVAC Power Plan
SCALE: 1/8"=1'-0"

NOTES 2,3 (TYPICAL)
EF-9 (NOTE 1)
EF-8 (NOTE 1)

EF-11 (NOTE 1)
EF-10 (NOTE 1)

ELECTRICAL GENERAL NOTES:

- G1. ALL NEW CIRCUIT BREAKER SHALL BE LISTED/LABELLED FOR USE IN EXISTING MCC AND/OR PANEL. PROVIDE ALL MOUNTING HARDWARE, BUSS DETAIL AND FACEPLATES (DEAD FRONT) AS REQUIRED. AMPERE INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING MCC AND/OR PANEL RATING.
- G2. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

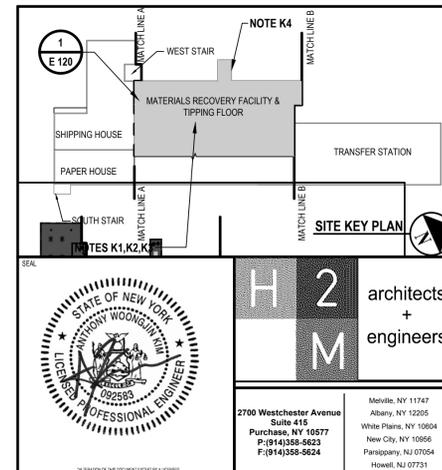
ELECTRICAL KEY NOTES:

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING CIRCUIT BREAKER, WIRE AND CONDUIT TO EXISTING "MCC-1".
 - 1.1. EF-8:
 - 1.1.1. CIRCUIT BREAKER: 15A/3P
 - 1.1.2. WIRE AND CONDUIT: 3 #12 AWG + #12 AWG GND IN 3/4" E.C.
 - 1.1.3. PROVIDE AND INSTALL STARTERS, ALL WIRING AS REQUIRED TO MAINTAIN EXISTING CONTROLS
 - 2. EF-9:
 - 2.1. CIRCUIT BREAKER: 15A/3P
 - 2.2. WIRE AND CONDUIT: 3 #12 AWG + #12 AWG GND IN 3/4" E.C.
 - 2.3. PROVIDE AND INSTALL ALL STARTERS, WIRING AS REQUIRED TO MAINTAIN EXISTING CONTROLS
 - 3. EF-10:
 - 3.1. CIRCUIT BREAKER: 15A/3P
 - 3.2. WIRE AND CONDUIT: 3 #12 AWG + #12 AWG GND IN 3/4" E.C.
 - 3.3. PROVIDE AND INSTALL ALL STARTERS, WIRING AS REQUIRED TO MAINTAIN EXISTING CONTROLS
 - 4. EF-11:
 - 4.1. CIRCUIT BREAKER: 15A/3P
 - 4.2. WIRE AND CONDUIT: 3 #12 AWG + #12 AWG GND IN 3/4" E.C.
 - 4.3. PROVIDE AND INSTALL ALL STARTERS, WIRING AS REQUIRED TO MAINTAIN EXISTING CONTROLS
- 2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP" USING MANUFACTURER'S RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDERS TO NEW FIRE ALARM DEVICE LOCATION. REFER TO FLOOR PLANS FOR APPROXIMATE LOCATION OF EXISTING FACP. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. TYPICAL OF ALL FIRE ALARM DEVICES.
- 3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ADDRESSABLE SHUTDOWN CONTROL MODULES, ASSOCIATED RELAYS, STARTERS, WIRE AND CONDUIT AS REQUIRED TO INTEGRATE NEW HVAC EQUIPMENT WITH FIRE ALARM SYSTEM. NEW HVAC EQUIPMENT TO BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ACTIVATION. INTERFACE WITH DESIGNATED UNITS.

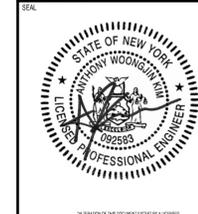
ELECTRICAL KEY PLAN NOTES:

- K1. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC" (SIEMENS ITE) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K2. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC-1" (SIEMENS MODEL 90) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K3. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC-2" (SIEMENS MODEL 90) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K4. APPROXIMATE LOCATION OF EXISTING EDWARDS UNITED TECHNOLOGIES IO SERIES FIRE ALARM CONTROL PANEL "FACP" IN ELEVATOR LOBBY ON THE GROUND FLOOR.

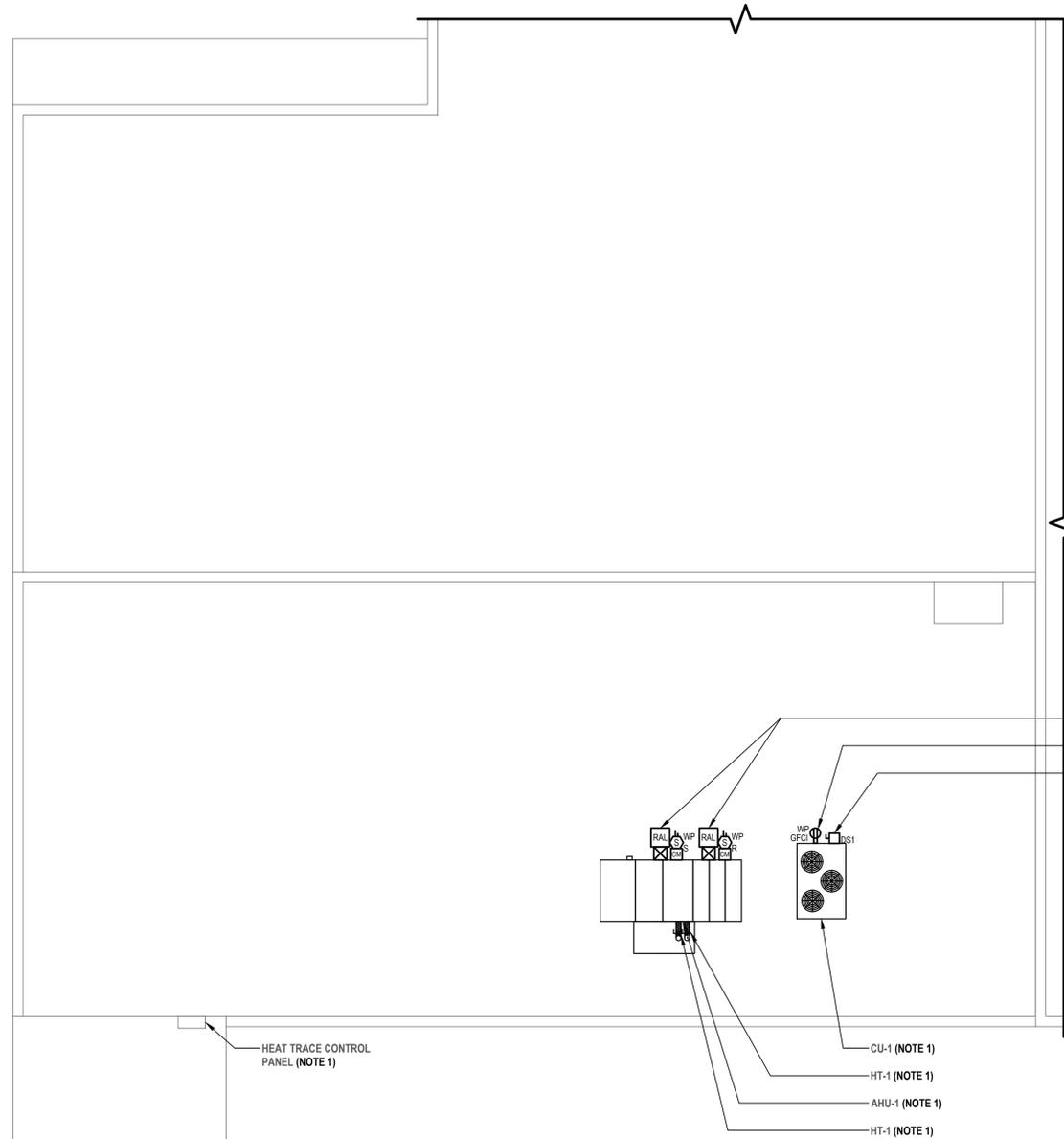
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1	10/30/2024	LK	LK	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME	DATE	NAME	DATE	
SIGNATURE		SIGNATURE		
TITLE		TITLE		
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	E 120	
DIVISION OF ENGINEERING		SHEET NO.	43 OF 48	
Roof, HVAC and Electrical Upgrades		SCALE: AS NOTED	DATE: 06/07/2024	
Daniel P. Thomas Material Recovery Facility		DPW FILE NO.	REV. NO.	
Yonkers, New York				
ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN		93-02-E-315-0	0	



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ELECTRICAL GENERAL NOTES:

- G1. ALL NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING MCC AND/OR PANEL. PROVIDE ALL MOUNTING HARDWARE, BUSS DETAIL AND FACEPLATES (DEAD FRONT) AS REQUIRED. AMPERE INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING MCC AND/OR PANEL RATING.
- G2. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL KEY NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING CIRCUIT BREAKERS, WIRE AND CONDUIT TO EXISTING "MCC-1".
 1. CU-1:
 - 1.1. CIRCUIT BREAKER: 70A/3P (HACR RATED)
 - 1.2. WIRE AND CONDUIT: 3 #4 AWG + #8 AWG GND IN 1-1/4" E.C.
 2. AHU-1:
 - 2.1. CIRCUIT BREAKER: 25A/3P (HACR RATED)
 - 2.2. WIRE AND CONDUIT: 3 #10 AWG + #10 AWG GND IN 3/4" E.C.
- CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING CIRCUIT BREAKERS, WIRE AND CONDUIT TO EXISTING PANEL "DP-1C".
 1. HT-1:
 - 1.1. CIRCUIT BREAKER: 20A/1P (GFEP TYPE 30mA)
 - 1.2. WIRE AND CONDUIT: 2 #10 AWG + #10 AWG GND IN 3/4" E.C.
 - 1.3. PROVIDE AND INSTALL THERMAL SWITCH
 - 1.4. CONTRACTOR SHALL PROVIDE AND INSTALL THERMAL SWITCH, JUNCTION BOXES, WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO INSTALL PIPE MOUNTED HEAT TRACE SENSOR AND INTERFACE WITH RESPECTIVE HEAT TRACE CONTROL PANEL. FINAL MOUNTING HEIGHT OF PIPE MOUNTED SENSOR SHALL BE FINALIZED IN FIELD BY HEAT TRACE INSTALLER AND ENGINEER.
 2. CONVENIENCE RECEPTACLE
 - 2.1. CIRCUIT BREAKER: 20A/1P
 - 2.2. WIRE AND CONDUIT: 2 #10 AWG + #10 AWG GND IN 3/4" E.C.
2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP" USING MANUFACTURER'S RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDERS TO NEW FIRE ALARM DEVICE LOCATION. REFER TO FLOOR PLANS FOR APPROXIMATE LOCATION OF EXISTING FACP. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. TYPICAL OF ALL FIRE ALARM DEVICES.
3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ADDRESSABLE SHUTDOWN CONTROL MODULES, ASSOCIATED RELAYS, STARTERS, WIRE AND CONDUIT AS REQUIRED TO INTEGRATE NEW HVAC EQUIPMENT WITH FIRE ALARM SYSTEM. NEW HVAC EQUIPMENT TO BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ACTIVATION. INTERFACE WITH DESIGNATED UNITS.
4. CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTOR UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT. PROVIDE 120V POWER FEED FROM NEAREST CIRCUIT SERVICING CONVENIENCE RECEPTACLES FOR HEATED ENCLOSURE. PROVIDE AND INSTALL REMOTE ALARM LAMP ON FINISHED CEILING BELOW FOR ALL DUCT SMOKE DETECTORS INSTALLED ABOVE CEILINGS OR ON ROOFS.
5. CONTRACTOR SHALL PROVIDE AND INSTALL A CHANNEL SUPPORT SYSTEM AS REQUIRED TO MOUNT DISCONNECT SWITCH AND CONVENIENCE RECEPTACLE FROM THE ROOF CURBS SUPPORTING THE CONDENSING UNIT SUCH THAT THE UNIT'S MANUFACTURER'S WARRANTY IS NOT VOIDED. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. PROVIDE ALL CLEARANCES TO THE HVAC UNIT AS REQUIRED.

ELECTRICAL KEY PLAN NOTES:

- K1. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC" (SIEMENS ITE) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K2. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC-1" (SIEMENS MODEL 90) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K3. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC-2" (SIEMENS MODEL 90) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K4. APPROXIMATE LOCATION OF EXISTING EDWARD UNITED TECHNOLOGIES IO SERIES FIRE ALARM CONTROL PANEL "FACP" IN ELEVATOR LOBBY ON THE GROUND FLOOR.
- K5. APPROXIMATE LOCATION OF EXISTING 120/208V 3Ø PANEL "DP-1C" (SIEMENS S3) SURFACE MOUNTED IN BALE STORAGE AREA ON THE GROUND FLOOR.

1 Electrical Paper House and Shipping House Partial Roof HVAC Power Plan
SCALE: 1/8"=1'-0"

IN CHARGE OF _____
CHECKED BY _____
MADE BY _____

NOTE K5
NOTE K4
SHIPPING HOUSE
PAPER HOUSE
WEST STAIR
MATERIALS RECOVERY FACILITY & TIPPING FLOOR
TRANSFER STATION
SOUTH STAIR
WEST STAIR
MATCH LINE A
MATCH LINE B
MATCH LINE C
MATCH LINE D
MATCH LINE E
MATCH LINE F
MATCH LINE G
MATCH LINE H
MATCH LINE I
MATCH LINE J
MATCH LINE K
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MATCH LINE P
MATCH LINE Q
MATCH LINE R
MATCH LINE S
MATCH LINE T
MATCH LINE U
MATCH LINE V
MATCH LINE W
MATCH LINE X
MATCH LINE Y
MATCH LINE Z

NOTE K1, K2, K3

SITE KEY PLAN

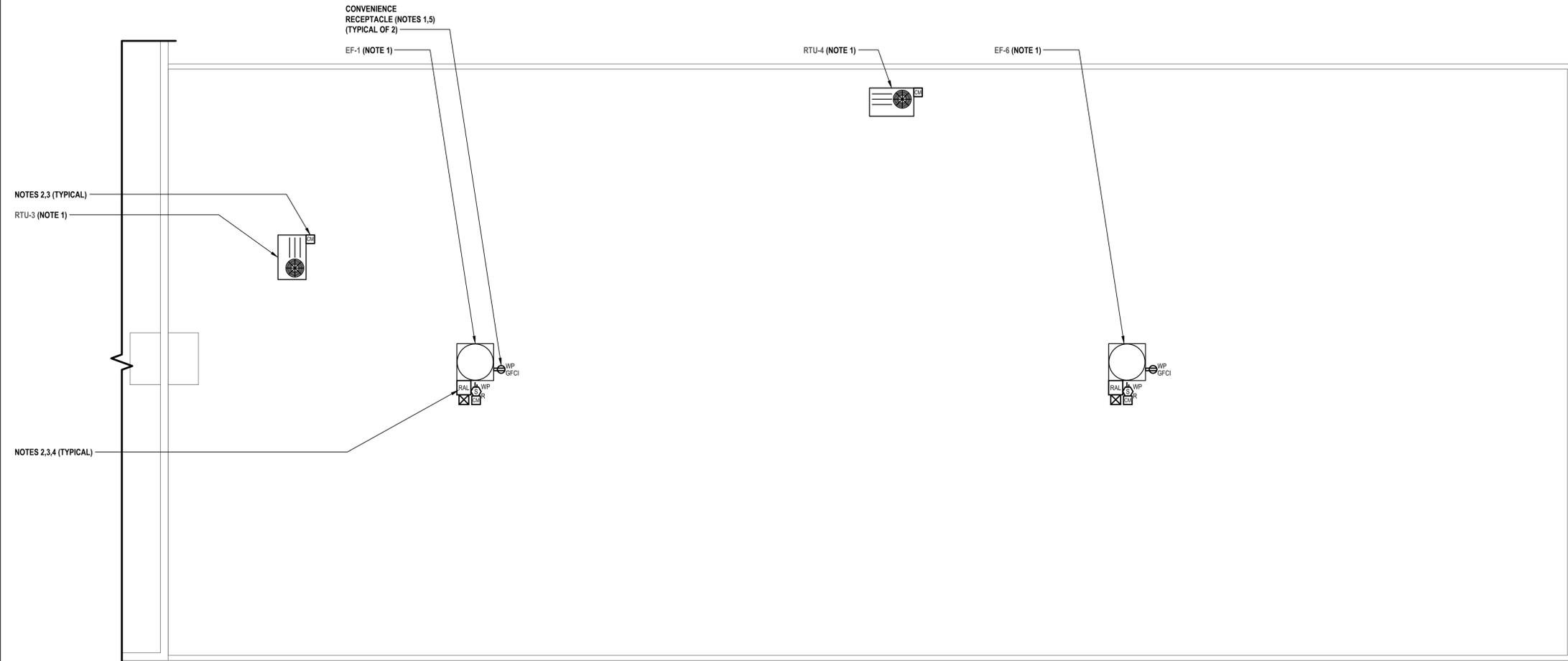
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LICENSED PROFESSIONAL ENGINEER
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1	10/30/2024	LK	LK	BID SUBMISSION
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
WESTCHESTER COUNTY, NEW YORK				
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION				
DIVISION OF ENGINEERING				
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York				CONTRACT NUMBER 23-519
DRAWING NUMBER E 130				SHEET NO. 44 OF 48
SCALE: AS NOTED DATE: 06/07/2024				REV. NO. 0
DPW FILE NO.				93-02-E-316-0
ELECTRICAL PARTIAL ROOF HVAC POWER PLAN A				



1 Electrical Transfer Station Roof HVAC Power Plan
SCALE: 1/8"=1'-0"

ELECTRICAL GENERAL NOTES:

- G1. ALL NEW CIRCUIT BREAKER SHALL BE LISTED/LABELLED FOR USE IN EXISTING MCC AND/OR PANEL. PROVIDE ALL MOUNTING HARDWARE, BUSS DETAIL AND FACEPLATES (DEAD FRONT) AS REQUIRED. AMPERE INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING MCC AND/OR PANEL RATING.
- G2. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.
- G3. CONTRACTOR SHALL CUT BLOCK WALL AS REQUIRED TO RECESS NEW CONDUIT ABOVE EXISTING RECESS MOUNTED PANEL. PATCH, PRIME AND PAINT WALL TO MATCH EXISTING.

ELECTRICAL KEY NOTES:

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING CIRCUIT BREAKER, WIRE AND CONDUIT TO EXISTING PANEL "CTS".
 - 1.1. RTU-3:
 - 1.1.1. CIRCUIT BREAKER: 15A/3P (HACR RATED)
 - 1.1.2. WIRE AND CONDUIT: 3 #12 AWG + #12 AWG GND IN 3/4" E.C.
 - 2. RTU-4:
 - 2.1. CIRCUIT BREAKER: 15A/3P (HACR RATED)
 - 2.2. WIRE AND CONDUIT: 3 #12 AWG + #12 AWG GND IN 3/4" E.C.

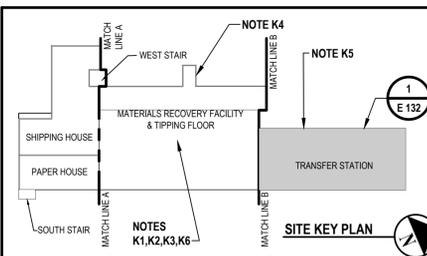
- CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING CIRCUIT BREAKER, WIRE AND CONDUIT TO EXISTING "MCC-1".
 - 1. EF-1:
 - 1.1. CIRCUIT BREAKER: 30A/3P (HACR RATED)
 - 1.2. WIRE AND CONDUIT: 3 #10 AWG + #10 AWG GND IN 3/4" E.C. VIA DISCONNECT SWITCH "DS1"
 - 1.3. PROVIDE AND INSTALL WIRE AND CONDUIT TO ASSOCIATED MOTORIZED DAMPER
 - 1.4. PROVIDE AND INSTALL ALL STARTERS, WIRING AS REQUIRED TO MAINTAIN EXISTING CONTROLS
 - 3. EF-6:
 - 3.1. CIRCUIT BREAKER: 30A/3P (HACR RATED)
 - 3.2. WIRE AND CONDUIT: 3 #10 AWG + #10 AWG GND IN 3/4" E.C. VIA DISCONNECT SWITCH "DS1"
 - 3.3. PROVIDE AND INSTALL WIRE AND CONDUIT TO ASSOCIATED MOTORIZED DAMPER
 - 3.4. PROVIDE AND INSTALL ALL WIRING AS REQUIRED TO MAINTAIN EXISTING CONTROLS

- CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING CIRCUIT BREAKERS, WIRE AND CONDUIT TO EXISTING PANEL "DP-1":
 - 1. CONVENIENCE RECEPTACLES:
 - 1.1. CIRCUIT BREAKER: 20A/1P
 - 1.2. WIRE AND CONDUIT: 2 #10 AWG + #10 AWG GND IN 3/4" E.C.

- 2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP" USING MANUFACTURER'S RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDERS TO NEW FIRE ALARM DEVICE LOCATION. REFER TO FLOOR PLANS FOR APPROXIMATE LOCATION OF EXISTING FACP. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. TYPICAL OF ALL FIRE ALARM DEVICES.
- 3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ADDRESSABLE SHUTDOWN CONTROL MODULES, ASSOCIATED RELAYS, STARTERS, WIRE AND CONDUIT AS REQUIRED TO INTEGRATE NEW HVAC EQUIPMENT WITH FIRE ALARM SYSTEM. NEW HVAC EQUIPMENT TO BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ACTIVATION. INTERFACE WITH DESIGNATED UNITS.
- 4. CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTOR UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT. PROVIDE 120V POWER FEED FROM NEAREST CIRCUIT SERVICING CONVENIENCE RECEPTACLES FOR HEATED ENCLOSURE. PROVIDE AND INSTALL REMOTE ALARM LAMP ON FINISHED CEILING BELOW FOR ALL DUCT SMOKE DETECTORS INSTALLED ABOVE CEILINGS OR ON ROOFS.
- 4. CONTRACTOR SHALL PROVIDE AND INSTALL A CHANNEL SUPPORT SYSTEM AS REQUIRED TO MOUNT RECEPTACLE FROM THE ROOF CURBS SUPPORTING THE EXHAUST FAN SUCH THAT THE UNITS MANUFACTURERS WARRANTY IS NOT VOIDED. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. PROVIDE ALL CLEARANCES TO THE HVAC UNIT AS REQUIRED.

ELECTRICAL KEY PLAN NOTES:

- K1. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC" (SIEMENS ITE) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K2. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC-1" (SIEMENS MODEL 90) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K3. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø MOTOR CONTROL CENTER "MCC-2" (SIEMENS MODEL 90) IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.
- K4. APPROXIMATE LOCATION OF EXISTING EDWARD UNITED TECHNOLOGIES IO SERIES FIRE ALARM CONTROL PANEL "FACP" IN ELEVATOR LOBBY ON THE GROUND FLOOR.
- K5. APPROXIMATE LOCATION OF EXISTING 277/480V 3Ø PANEL "CTS" (WESTINGHOUSE PRL2B) RECESSED MOUNTED ON SECOND FLOOR.
- K6. APPROXIMATE LOCATION OF EXISTING 120/208V 3Ø PANEL "DP-1" (SIEMENS S3) SURFACE MOUNTED IN MAIN ELECTRICAL ROOM ON THE GROUND FLOOR.



REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	10/30/2024	LK	LK	BID SUBMISSION

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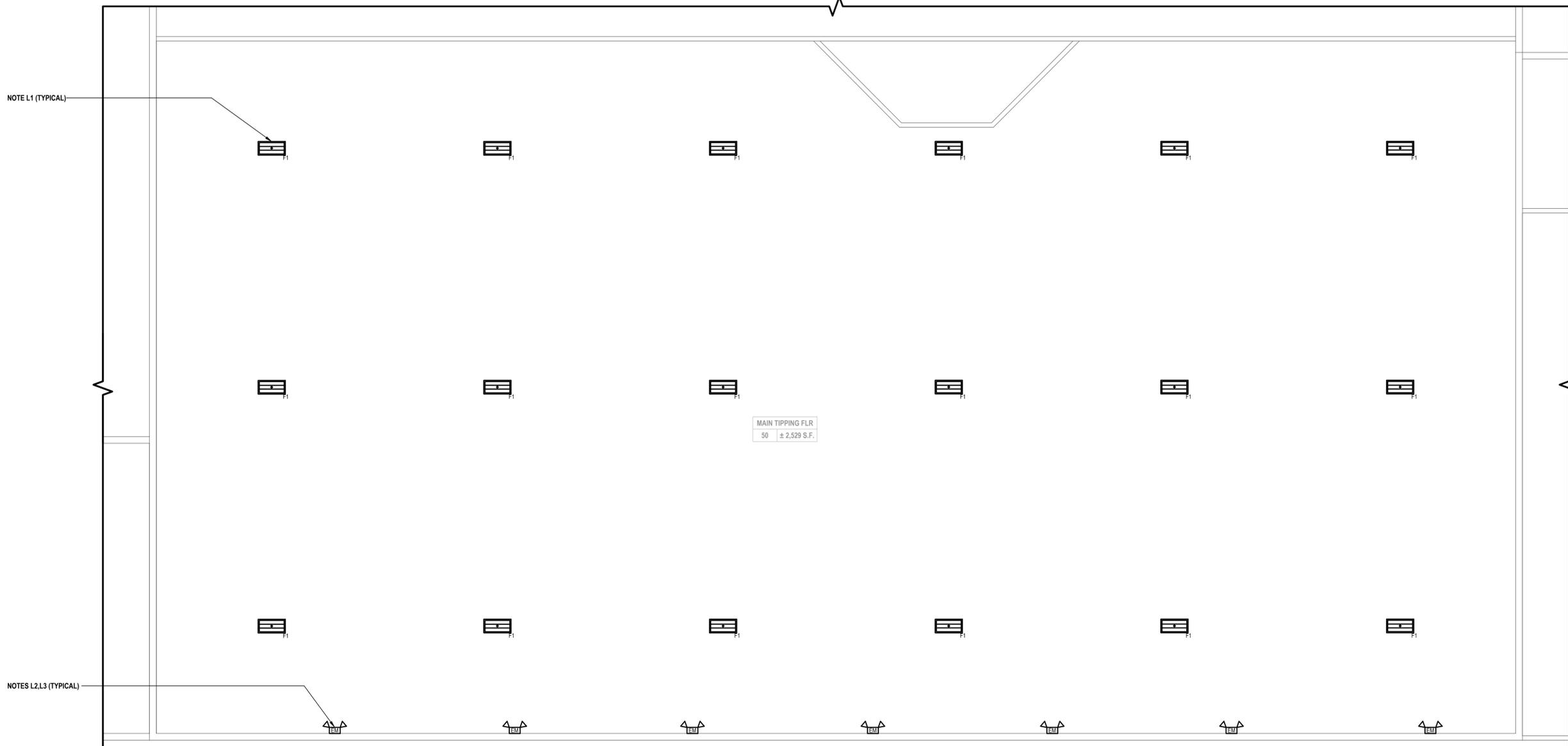
NAME _____ SIGNATURE _____ TITLE _____		NAME _____ SIGNATURE _____ TITLE _____	
CONTRACTOR		PROJECT COORDINATOR	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING			
CONTRACT NUMBER 23-519	DRAWING NUMBER E 132	SHEET NO. 46 OF 48	
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York		SCALE: AS NOTED DATE: 06/07/2024	REV. NO. _____
ELECTRICAL PARTIAL ROOF HVAC POWER PLAN C		DPW FILE NO. 93-02-E-318-0	0

IN CHARGE OF _____
 CHECKED BY _____
 MADE BY _____

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 New City, NY 10956
 Parsippany, NJ 07054
 Howell, NJ 07731

STATE OF NEW YORK
 ARCHITECT
 LICENSE NO. 109258
 PROFESSIONAL ENGINEER



1 Electrical Tipping Floor First Floor Lighting Plan
 SCALE: 1/8"=1'-0"
 N

ELECTRICAL GENERAL LIGHTING NOTES:

- GL1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES AND/OR CONTROLLER FOR COMPLETE LIGHTING CONTROL. PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.
- GL2. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.
- GL3. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.
- GL4. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES AND/OR ROOM CONTROLLER.
- GL5. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.
- GL6. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO SECURELY MOUNT NEW LIGHT FIXTURES.

ELECTRICAL LIGHTING KEY NOTES:

- L1. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT FROM THE EXISTING LIGHTING CIRCUIT SERVING THIS ROOM TO TERMINATE AT NEW LIGHT FIXTURE. WIRE AND CONDUIT SHALL BE 2 #10 AWG + #10 AWG GND IN 3/4" E.C. EXISTING LIGHTING CONTROLS TO REMAIN. REFER TO ASSOCIATED DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- L2. CONTRACTOR SHALL PROVIDE AND EXTEND EXISTING WIRE AND CONDUIT AS REQUIRED TO TERMINATE AT NEW EMERGENCY LIGHT. WIRE AND CONDUIT SHALL BE 2 #10 AWG + #10 AWG GND IN 3/4" E.C. REFER TO ASSOCIATED DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- L3. CONTRACTOR SHALL USE SILICONE WATER PROOF SEALANT TO SEAL TOP, LEFT, AND RIGHT EDGES OF LIGHT FIXTURES TO WALL TO PREVENT MOISTURE FROM ACCUMULATING BEHIND FIXTURE. BOTTOM EDGE SHALL BE LEFT UNSEALED FOR DRAINAGE. COLOR OF SILICONE SHALL MATCH EITHER WALL COLOR OR FIXTURE COLOR. (TYPICAL OF ALL WALL MOUNTED FIXTURES)

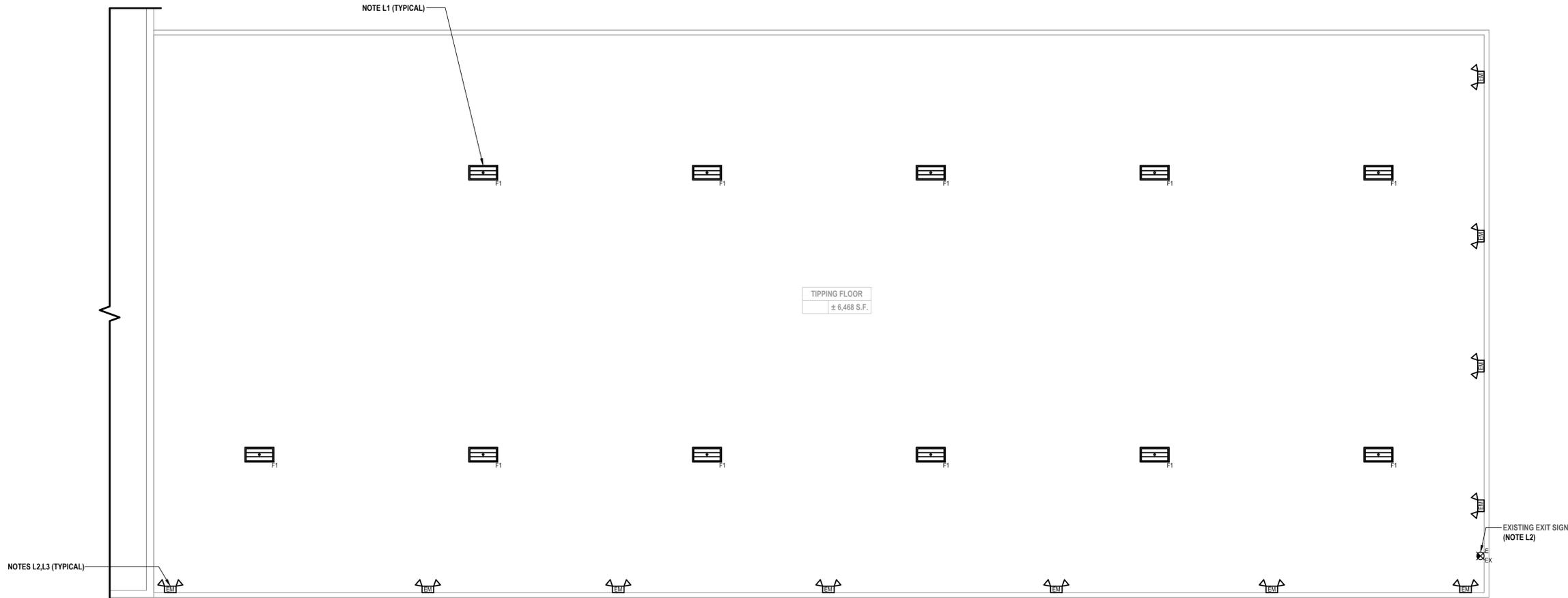
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STATE OF NEW YORK
 ARCHITECTS AND ENGINEERS
 022563
 DANIEL P. THOMAS
 PROFESSIONAL ENGINEER

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1	10/30/2024	LK	LK	BID SUBMISSION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME	DATE	NAME	DATE	
SIGNATURE		SIGNATURE		
TITLE		TITLE		
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	E 200	
DIVISION OF ENGINEERING		SHEET NO. 47 OF 48		
Roof, HVAC and Electrical Upgrades		SCALE: AS NOTED		
Daniel P. Thomas Material Recovery Facility		DATE: 06/07/2024		
Yonkers, New York		DPW FILE NO.	REV. NO.	
ELECTRICAL MAIN TIPPING FLOOR LIGHTING PLAN		93-02-E-319-0	0	



1 Electrical Transfer Station First Floor Lighting Plan
SCALE: 1/8"=1'-0"

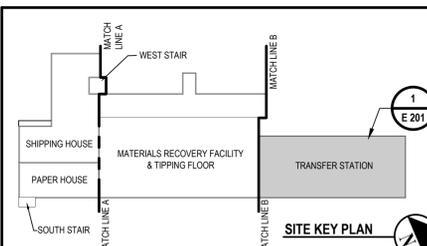
ELECTRICAL LIGHTING GENERAL NOTES:

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- GL3. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.
- GL4. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES AND/OR ROOM CONTROLLER.
- GL5. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.
- GL6. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO SECURELY MOUNT NEW LIGHT FIXTURES.

ELECTRICAL LIGHTING KEY NOTES:

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- L2. CONTRACTOR SHALL PROVIDE AND EXTEND EXISTING WIRE AND CONDUIT AS REQUIRED TO TERMINATE AT NEW EMERGENCY LIGHT FROM EXISTING EXIT SIGN CIRCUIT. WIRE AND CONDUIT SHALL BE 2 #10 AWG + #10 AWG GND IN 3/4" E.C. REFER TO ASSOCIATED DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- L3. CONTRACTOR SHALL USE SILICONE WATER PROOF SEALANT TO SEAL TOP, LEFT, AND RIGHT EDGES OF LIGHT FIXTURES TO WALL TO PREVENT MOISTURE FROM ACCUMULATING BEHIND FIXTURE. BOTTOM EDGE SHALL BE LEFT UNSEALED FOR DRAINAGE. COLOR OF SILICONE SHALL MATCH EITHER WALL COLOR OR FIXTURE COLOR. (TYPICAL OF ALL WALL MOUNTED FIXTURES)

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STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 No. 092556

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1	10/30/2024	LK	LK	BID SUBMISSION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED		<input type="checkbox"/> AS BUILT - NO CHANGES		
CONTRACTOR		PROJECT COORDINATOR		
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WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	DRAWING NUMBER	
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		23-519	E 201	
DIVISION OF ENGINEERING		SHEET NO. 48 OF 48		
Roof, HVAC and Electrical Upgrades Daniel P. Thomas Material Recovery Facility Yonkers, New York		SCALE: AS NOTED DATE: 06/07/2024		
ELECTRICAL TIPPING ROOM LIGHTING PLAN		DPW FILE NO.	REV. NO.	
		93-02-E-320-0	0	