Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT G - GENERAL CONSTRUCTION
CONTRACT H - MECHANICAL WORK

CONTRACT P - PLUMBING WORK
CONTRACT E - ELECTRICAL WORK

ABBREVIATIONS

AB	Anchor Bolt	F.C.	Fire Code
A/C	Air Conditioning	FD	Floor Drain
ACI	American Concrete Institute	FIN	Finish
ACST	Acoustic	FR	Fire Rated
ACT	Acoustical Ceiling Tile	FTG	Footing
ACU	Air Conditioning Unit	GA	Gauge
AD	Access Door	GWB	Gypsum Wall Board
ADJ	Adjustable	GYP	Gypsum
A/E	Architect/Engineer	FYP. BD.	Gypsum Board
AFF	Above Finish Floor	HC	Handicapped
ALUM	Aluminum	HM	Hollow Metal
ANCH	Anchor	HOR	Horizontal
ANSI	American National Standards Institute	HW	Hot Water
APA	Access Panel	INSUL	Insulation/Insulating
APPROX	Approximately	INT	Interior
ASPH	Asphalt	LAV	Lavatory
ASTM	American Society for Testing & Materials	LDR	Leader
		LT	Light
AWS	American welding Society	MAX	Maximum
B	Fire Blanket	MECH	Mechanical
BAL	Balance	MISC	Miscellaneous
BB	Bulletin Board	MO	Masonry Opening
BD	Board	MR	Moisture Resistant
BLDG	Building	NIX	Not in Contract
BLK	Block	NTS	Not to Scale
BLKG	Blocking	OC	On Center
BM	Beam	OD	Outide Diameter
B.O.	Bottom Of	PLYWD	Plywood
BOL	Bottom of Lintel	PSF	Pounds Per Square Foot
BOT	Bottom	PSI	Pounds Per Square Inch
CEIL	Ceiling	PTD	Painted
CEM	Cement	PVC	Polyvinyl Chloride
CER	Ceramic	R	Radius or Riser
CLO	Closet	RCP	Reflected Ceiling Plan
CMU	Concrete Masonry Unit	RD	Roof Drain
COL	Column	REINF	Reinforced
CONC	Concrete	RM	Room
CONST	Construction	RO	Rough Opening
CONT	Continuous	SIM	Similar
CORR	Corridor	SPEC	Specifications
CPT	Carpet	SQ	Square
DS	Down Spout	SS	Stainless Steel
DW	Dishwasher	STL	Steel
DWG	Drawing	TEMP	Temperature
EA	Each	TER	Terrazzo
EL	Elevation	THK	Thick
ELEC	Elecric/Electrical	TYP	Typical
ELEV	Elevator	UTIL	Utility
EP	Electrical Panel	VB	Vapor Barrier
EPY	Epoxy Coating	VCT	Vinyl Composition Tile
EQ	Equal	VTR	Vent Thru Roof
EQUIP	Equipment	WC	Water Closet
EXIST	Existing	WH	Water Heater
EXST	Exuast	WWF	Welded Wire Fabric
FAI	Fresh Air Intake		

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE BUILDING CODE OF NEW YORK STATE AS WELL AS THE NEW YORK STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS, AND ALL OTHER APPLICABLE CODES.
2. THE DRAWINGS AND PROJECT MANUAL ARE COMPLEMENTARY. THE PROJECT MANUAL SEPARATELY BOUND CONTAINS THE CONDITIONS OF THE CONTRACT, PROCEDURES, AND TECHNICAL SPECIFICATIONS.
3. THE CONSTRUCTION DOCUMENTS DEFINE THE EXTENT, QUALITY OF PEDUCTS AND THE SCOPE OF WORK. THE CONSTRUCTION DOCUMENTS ALSO PROVIDE A GUIDE FOR THE COORDINATION OF WORK.
4. THE CONTRACTOR MUST REVIEW ALL DRAWINGS CONTAINED WITHIN THIS SET AND ALL PROJECT SPECIFICATIONS SO AS TO BECOME FAMILIAR WITH ALL OF THE WORK REQUIRED UNDER THE CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO FURTHER COORDINATE ALL OF THE WORK AND SHALL PROVIDE A FIRST CLASS FINISHED INSTALLATION THAT SHOULD FOLLOW ALL INDUSTRY BEST PRACTIVES AND STANDARDS, CODES, AND CODE REFERENCE STANARDS, AND PRODUCT MANUFACTURERS REQUIREMENTS.
5. THE CONTRACTOR SHALL NOT MAKE ANY DEVIATION FROM THE CONTRACT DOCUMETNS WITHOUT WRITTEN DIRECTION FROM THE ARCHITECT/ENGINEER OF RECORD.
6. DO NOT SCALE MEASURE ANY DRAWING. WRITTEN DIMENSIONS CONFIRMED BY FIELD CONDITIONS TAKE PRECEDENCE. IF A DISCREPANCY ARISES BASED UPON FIELD CONDITIONS, CONSULT WITH ARCHITECT/ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK OR ORDERING MATERIALS.
7. ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICIANS.
8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ANY AND ALL WORK INCIDENTIAL TO THE CONSTRUCTION AS REQUIRED TO ACHIEVE A FIRST CLASS FINISHED INSTALLATION AND TO FOLLOW ALL INDUSTRY BEST PRACTICES AND STANDARDS, PERTINENT CODES AND CODE REFERENCE STANDARDS, AND PRODUCT MANUFACTURER'S REQUIREMENTS AS PART OF THE BASE BID PRICE WITHOUT ANY EXCEPTIONS.
9. THE CONTRACTOR SHALL PERPARE COORDINATION DRAWINGS OF EACH TRADE THAT IS INVOLVED IN THE CONSTRUCTION, INCORPORATING ALL OF THE WORK TO IDENTIFY ANY POTENTIAL CONFLICTS OR ISSUES PRIOR TO UNDERTAKING THE WORK. THE CONTRACTOR SHALL PROVIDE THE COORDINATION DRAWINGS TO THE ARCHITECT/ENGINEER OF RECORD FOR REVIEW, IF REQUESTED.
10. IF THERE IS A DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT THE DISCREPANCY CAN BE RESOLVED. THE MORE CONSERVATIVE INTERPRAETAITON RESULTING IN THE GREATEST EXTENT OF WORK SHALL BE ASSUMED AS THE INTENT WITH REGARDS TO THE CONTRACTORS BID.
11. NO WORK SHALL COMMENCE UNTIL ALL APPROPRIATE APPROVALS AND PERMITS HAVE BEEN SECURED BY THE CONTRACTOR.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AND OR DEMOLITION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTROATION AND MISALIGNMENT.
13. CONTRACTOR SHALL HIRE THEIR OWN PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO DESIGN AND EINGINEER ALL REQUIRED CONTRACTOR RELATED WORK FOR PROTECTION, BRACING, SAFETY AND CONSTRUCTION ITEMS.
14. THE CONTRACTOR SHALL 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.
15. CONTRACTOR SHALL PROTECT ALL ADJACENT EXISTING CONSTRUCTION, SHALL PATCH, REPAIR AND/OR REPLACE AND REFINISHED AS REQUIRED, IN ORDER TO RESTORE ANY AND ALL AREAS DAMAGED DURING CONSTRUCTION.
16. THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL MATERIALS, EQUIPMENT AND FURNISHINGS AS THE WORK PROGRESSES PROVIDING THERE IS NOT A CONFLICT WITH THE CONTRACTORS WORK.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FACILITY WATER TIGHT AND WEATHER PROTECTED THROUGHOUT ALL THE WORK AREAS AND EXISTING OCCUPIED AREAS FOR THE DURATION OF THE ENTIRE PROJECT.

DRAWING LIST

GENERAL INFORMATION DRAWINGS

G 000	GENERAL NOTES, LOCATION MAP, DRAWING LIST, STAGING PLAN, ABBREVIATIONS AND LEGENDS
G 001	STAGING PLAN, LEGEND, AND NOTES
G 101	NYS CODE ANALYSIS AND FIRST FLOOR COMPLIANCE PLAN
G 102	NYS CODE ANALYSIS AND SECOND FLOOR COMPLIANCE PLAN
G 103	FIRST FLOOR EGRESS PLAN
G 104	SECOND FLOOR EGRESS PLAN

STRUCTURAL DRAWINGS

S 001	GENERAL NOTES
S 002	SPECIAL INSPECTIONS
S 100	FOUNDATION PLAN
S 110	SLAB PLAN
S 120	SECOND FLOOR FRAMING PLAN
S 121	MAIN ROOF FRAMING PLAN
S 122	HIGH ROOF FRAMING PLAN
S 200	BRACE FRAME ELEVATIONS
S 500	FOUNDATION DETAILS
S 501	FOUNDATION DETAILS
S 510	SLAB DETAILS
S 520	MASONRY DETAILS
S 530	STRUCTURAL STEEL DETAILS
S 531	STRUCTURAL STEEL DETAILS
S 533	METAL DECK DETAILS
S 540	COLD FORMED STEEL DETAILS
S 600	SCHEDULE & DETAILS
S 601	JOIST DIAGRAMS & SCHEDULE

ARCHITECTURE DRAWINGS

AD 111	PARTIAL FIRST FLOOR DEMOLITION PLAN, NOTES, AND LEGENDS
AD 112	PARTIAL SECOND FLOOR DEMOLITION PLAN, ROOF PLAN, NOTES, AND LEGENDS
V 100	EXISTING CONDITIONS PLAN
A 010	SITE PLAN
A 100	PARTITION TYPES AND UL LISTINGS
A 101	PARTIAL FIRST FLOOR CONSTRUCTION PLAN, NOTES AND LEGENDS
A 102	PARTIAL SECOND FLOOR CONSTRUCTION PLAN, NOTES AND LEGENDS
A 103	PARTIAL CLERESTORY CONSTRUCTION PLAN, NOTES AND LEGENDS
A 121	PARTIAL FIRST FLOOR REFLECTED CEILING PLAN, NOTES, AND LEGENDS (CONTRACT G/E)
A 122	PARTIAL SECOND FLOOR REFLECTED CEILING PLAN, NOTES, AND LEGENDS (CONTRACT G/E)
A 130	PARTIAL ROOF CONSTRUCTION PLAN, NOTES, AND LEGENDS
A 200	BUILDING ELEVATIONS NORTH & WEST
A 300	BUILDING SECTIONS
A 301	WALL SECTIONS
A 302	WALL SECTIONS
A 410	ENLARGED TOILET PLAN AND ELEVATIONS
A 411	ENLARGED TOILET PLAN AND ELEVATIONS
A 412	ENLARGED TOILET PLAN AND ELEVATIONS
A 430	ENLARGED ELEVATOR AND STAIR PLAN
A 431	STAIR DETAILS
A 540	ROOF DETAILS
A 541	ROOF DETAILS
A 542	CANOPY AND PIER DETAILS
A 600	ENLARGED FINISH PLANS
A 601	FINISH SCHEDULE AND DETAILS
A 610	WINDOW ELEVATIONS AND DETAILS
A 620	DOOR SCHEDULE AND DOOR TYPES
A 621	DOOR DETAILS

PLUMBING DRAWINGS

P 001	PLUMBING ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
P 100	PLUMBING PARTIAL UNDERGROUND DEMOLITION PLAN
P 101	PLUMBING PARTIAL FIRST FLOOR DEMOLITION PLAN
P 102	PLUMBING PARTIAL SECOND FLOOR DEMOLITION PLAN
P 200	PLUMBING PARTIAL UNDERGROUND CONSTRUCTION PLAN
P 201	PLUMBING PARTIAL FIRST FLOOR CONSTRUCTION PLAN
P 202	PLUMBING PARTIAL SECOND FLOOR CONSTRUCTION PLAN
P 203	PLUMBING PARTIAL ROOF CONSTRUCTION PLAN
P 501	PLUMBING PARTIAL RISER DIAGRAMS
P 601	PLUMBING SCHEDULES & DETAILS

MECHANICAL DRAWINGS

M 001	MECHANICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
M 101	MECHANICAL PARTIAL FIRST FLOOR DEMOLITION PLAN
M 102	MECHANICAL PARTIAL SECOND FLOOR DEMOLITION PLAN
M 201	MECHANICAL PARTIAL FIRST FLOOR CONSTRUCTION PLAN
M 202	MECHANICAL PARTIAL SECOND FLOOR CONSTRUCTION PLAN
M 203	MECHANICAL PARTIAL ROOF CONSTRUCTION PLAN
M 301	MECHANICAL PARTIAL FIRST FLOOR PIPING PLAN
M 302	MECHANICAL PARTIAL SECOND FLOOR PIPING PLAN
M 401	MECHANICAL PARTIAL PLANS - MAIN GYM RTU DUCTWORK
M 501	MECHANICAL HOT WATER RISER DIAGRAM
M 601	MECHANICAL SCHEDULES
M 602	MECHANICAL SCHEDULES
M 701	MECHANICAL DETAILS
M 702	MECHANICAL DETAILS

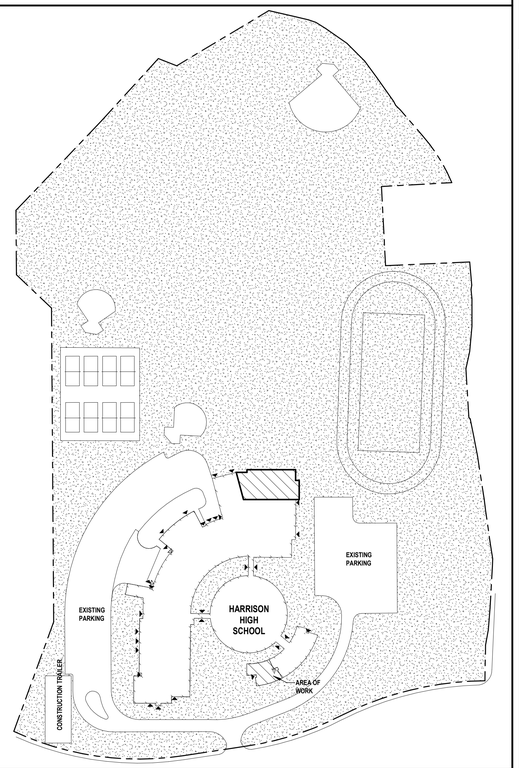
ELECTRICAL DRAWINGS

E 001	ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
E 101	ELECTRICAL DEMOLITION PLAN
E 201	ELECTRICAL FIRST & SECOND FLOOR LIGHTING PLAN
E 301	ELECTRICAL FIRST & SECOND FLOOR POWER PLAN
E 302	ELECTRICAL ROOF PLAN
E 401	FIRE ALARM FIRST FLOOR, SECOND FLOOR AND ROOF PLAN
E 501	ELECTRICAL DEMOLITION ONE-LINE DIAGRAM
E 502	ELECTRICAL ONE-LINE DIAGRAM
E 503	FIRE ALARM RISER DIAGRAM
E 601	ELECTRICAL SCHEDULES
E 701	ELECTRICAL DETAILS

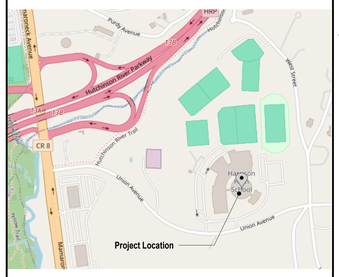
STAGING PLAN

STAGING NOTES

1. POST SIGNS INDICATING CONSTRUCTION AREA AND CONSTRUCTION EMPLOYEE ENTRANCE.
2. CONSTRUCTION FENCE TO BE 8'-0" HIGH CHAIN LINK FENCE LOCATED A MINIMUM OF 15'-0" FROM ALL WINDOW OPENINGS. ALL GATES ARE TO BE LOCKED AT ALL TIMES, EXCEPT FOR WHEN A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
3. CONTRACTOR IS TO STAGE ON THE SITE IN SUCH A MANNER AS TO NOT BLOCK OR ENCROACH UPON EXISTING EXITS/ENTRANCES TO BUILDING, AND VEHICLE ACCESS.
4. REFER TO CONTRACT DOCUMENTS AND SITE LOGISTICS NOTES IN THIS SECTION FOR FURTHER INFORMATION.



LOCATION MAP



SYMBOLS LEGEND

ROOM DESIGNATION
SECTION MARK
DETAIL SYMBOL
ELEVATION KEY
INTERIOR ELEVATION REFERENCE
ELEVATION LINE
REVISION TAG
PARTITION TYPE

GYPSUM
CONCRETE
AGGREGATE SUB-BASE
EARTH
BATT INSULATION
PLYWOOD
RIGID INSULATION
STEEL
WOOD
WOOD BLOCKING

UNIFORM SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS

1. "THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY."
2. NONE OF THE AREAS TO BE DISTURBED DURING RENOVATION OR DEMOLITION OPERATIONS ARE SUSPECTED OF CONTAINING ASBESTOS.
3. "GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
   (1) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
   (2) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
   (3) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
   (4) DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
   (5) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES."
4. "SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES: CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.
   (1) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHALL BE ASSIGNED OR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF. WHERE NO STAIRWELL AND OR ELEVATOR IS ASSIGNED, WORKERS MUST ENTER THE CONSTRUCTION SPACES DIRECTLY FROM THE BUILDING EXTERIOR.
   (2) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
   (3) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION."
5. A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.
6. WORK UNDER THIS CONTRACT WILL BE CONDUCTED DURING THE SUMMER RECESS WHEN THE BUILDING IS UNOCCUPIED. IF THE BUILDING BECOMES OCCUPIED THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING MEANS OF EGRESS IN A CLEAR AND FREE MANNER, INCLUDING THE STORAGE OF MATERIALS AND STAGING OF EQUIPMENT ON THE SITE. IF ANY PORTION OF THE BUILDING DOES BECOME OCCUPIED THE ARCHITECT WILL PROVIDE A DETAILED PLAN FOR EXITING, OVERHEAD PROTECTION AND EGRESS IN ACCORDANCE WITH APPLICABLE BUILDING CODES.
7. A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.
8. WORK UNDER THIS PROJECT WILL BE COMPLETED DURING THE SUMMER RECESS WHEN THE BUILDING WILL NOT BE OCCUPIED BY FACULTY, STAFF OR STUDENTS. IF A PORTION OF THE BUILDING IS TO BECOME OCCUPIED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL CLOSE OFF ALL INTAKES, OPENINGS, AND MECHANICAL VENTILATION SYSTEMS ADJACENT TO THE WORK AREA. THE ARCHITECT SHALL ASSIST THE CONTRACTOR IN DEVELOPING A PLAN TO PROVIDE ALTERNATE MEANS OF FRESH AIR TO ALL OCCUPIED SPACES.

   "CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN."

   "THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES 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." ALL VENTS SHALL BE SEALED TO PREVENT CONTAMINANTS FROM THE CONSTRUCTION AREA FROM ENTERING THE OCCUPIED AREAS OF THE BUILDING.
9. "THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED."
10. "LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED." IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.
11. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.
12. UNDER NEW YORK STATE LAW SMOKING IS PROHIBITED ON SCHOOL GROUNDS. EMPLOYEES FOUND TO BE SMOKING ON SCHOOL GROUNDS SHALL BE ORDERED OFF SITE AND A SECOND OFFENSE WILL BE GROUNDS FOR PERMANENT REMOVAL FROM PROJECT. LEGAL PENALTIES MAY ALSO BE APPLIED.

    ALL CONTRACTORS SHALL TAKE EVERY PRECAUTION AND SHALL PROVIDE SUCH EQUIPMENT AND FACILITIES AS ARE NECESSARY OR REQUIRED FOR THE SAFETY OF ITS EMPLOYEES. IN CASE OF AN ACCIDENT, FIRST AID SHALL BE ADMINISTERED TO ANY WHO MAY BE INJURED IN THE PROGRESS OF THE WORK. IN ADDITION, THE CONTRACTOR SHALL BE PREPARED FOR THE REMOVAL TO THE HOSPITAL FOR TREATMENT OF ANY EMPLOYEE EITHER SERIOUSLY INJURED OR ILL.

    THE CONTRACTOR FOR GENERAL CONSTRUCTION SHALL PROVIDE TEMPORARY WEATHER-TIGHT AND INSULATED ENCLOSURES AS MAY BE REQUIRED BY THE SCOPE OF WORK FOR ALL EXTERIOR OPENINGS SO AS TO PROTECT ALL WORK FROM THE WEATHER, AND TO PROVIDE SECURITY AGAINST UNAUTHORIZED ENTRY. ENCLOSURES SHALL NOT CREATE DEAD END CONDITIONS, REQUIRED EXITS SHALL BE MAINTAINED FREE AND CLEAR.

    MINOR ASBESTOS PROJECTS DEFINED BY 12NYCRR56 AS AN ASBESTOS PROJECT INVOLVING THE REMOVAL, DISTURBANCE, REPAIR, ENCAPSULATION, ENCLOSURE OR HANDLING OF 10 SQUARE FEET OF ASBESTOS OR ASBESTOS MATERIAL MAY BE PERFORMED IN UNOCCUPIED AREAS OF AN OCCUPIED BUILDING IN ACCORDANCE WITH 12NYCRR56.

    NONE OF THE SURFACES AND/OR MATERIALS TO BE REMOVED OR DISTURBED BY THIS RENOVATION ARE SUSPECT OF CONTAINING LEAD.

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NY Architecture & Landscape Architecture: No Certificate Required
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CONSULTANTS:

MARK	DATE	DESCRIPTION

REGISTERED ARCHITECT SAVERIO J. BELFIORE 033063 STATE OF NEW YORK

SAVERIO J. BELFIORE, R.A. 09/30/2026
NY PROFESSIONAL ARCHITECT Lic. No. 033063
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"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	
PROJECT No.: HCSD2401E	DATE: JUNE 2026	SCALE: AS SHOWN	

CLIENT
Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
ALL CONTRACTS

STATUS
FINAL BID DOCUMENT

SHEET TITLE
GENERAL NOTES, LOCATION MAP, DRAWING LIST, STAGING PLAN, ABBREVIATIONS AND LEGENDS

DRAWING No.
G 000.00

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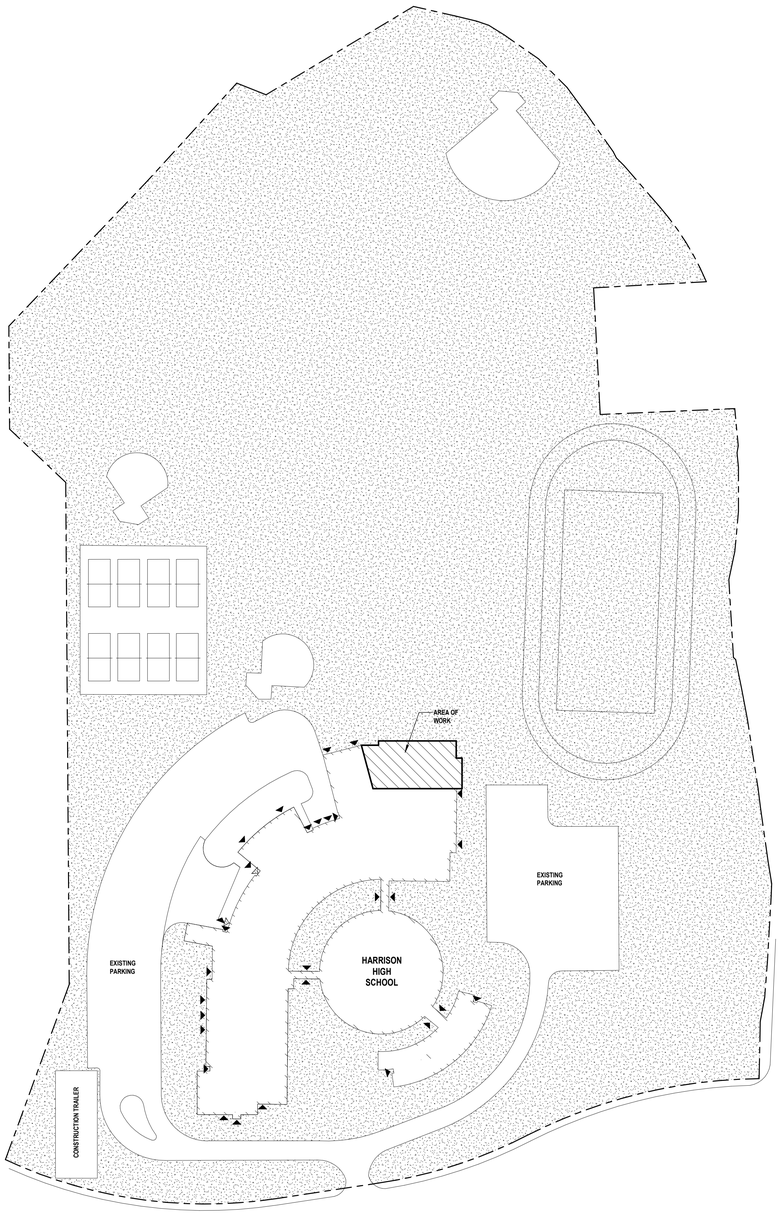

2 Staging Plan
SCALE: 1" = 100'-0"

REFER TO SPECIAL PROVISIONS AND SITE UTILIZATION PLAN WITHIN THE PROJECT SPECIFICATIONS FOR ADDITIONAL SITE STAGING NOTES.

STAGING NOTES

1. POST SIGNS INDICATING CONSTRUCTION ADDRESS AREA AND CONSTRUCTION EMPLOYEE AREA.
2. CONSTRUCTION FENCE TO BE 8'-0" HIGH CHAIN LINK FENCE LOCATED A MINIMUM OF 15'-0" FROM ALL WINDOW OPENINGS. ALL GATES SHALL BE LOCKED AT ALL TIMES EXCEPT WHEN A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRANCE
3. CONTRACTOR TO STAGE ON SITE IN SUCH A MANNER THAT DOES NOT BLOCK OR ENCROACH UPON EXISTING ENTRANCES TO BUILDING AND VEHICLE ACCESS
4. CONTRACTOR SHALL RESTORE ALL STAGING AREAS TO PRE-CONSTRUCTION CONDITIONS UPON COMPLETION OF THE WORK IN THE AREA.

SYMBOLS

- ENTRANCE/EGRESS
- EXISTING HYDRANT
- IMPACTED ENTRANCE/ EGRESS

GENERAL NOTES

1. THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY
2. GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS.
   A. ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
   B. FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
   C. GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
   D. DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY
   E. WORKERS SHALL BE REQUIRED TO WEAR PHOTO IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.
3. GENERAL CONTRACTOR SHALL PROVIDE A SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES. CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF THE A CONTRACTOR AND THEREFORE NOT OCCUPIED AREAS. PROVISIONS SHALL BE MADE BY THE GENERAL CONTRACTOR TO PREVENT THE PASSAGE OF ANY DUST AND CONTAMINANTS INTO THE OCCUPIED PARTS OF THE BUILDING AND AREAS UNDER THE CONTROL OF THE GENERAL CONTRACTOR EVEN THOUGH NOT OCCUPIED, I.E. AUDITORIUM SEATING AREA, PERIODIC INSPECTION AND REPAIRS OF THE CONTAMINANT BARRIERS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.
   A. IN GENERAL, WORKERS MAY NOT USE CORRIDORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF
   B. LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
   C. ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY, AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION
4. PLANS SHALL BE SUBMITTED TO THE C.M. DETAILING HOW EGRESS AND ADEQUATE VENTILATION SHALL BE MAINTAINED AS PER THE SED RESCUE REGULATIONS AND THE BUILDING CODE. GENERAL CONTRACTOR TO PROVIDE SUBMITTALS DETAILING HOW HE INTENDS TO SATISFY EXISTING VENTILATION PLAN REQUIREMENTS
5. CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR EFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GAS, 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. ANY PAINTING OR OTHER CHEMICAL APPLICATIONS SHALL TAKE PLACE IN THE EXISTING BUILDING ONLY WHEN UNOCCUPIED, CHEMICALS, PAINTS, OXYGEN, AND OTHER GASES SHALL BE PROPERLY STORED AND SECURED OUTSIDE THE EXISTING OR NEW BUILDING STRUCTURES AND SHALL FOLLOW MANUFACTURERS STORAGE GUIDELINES
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, DRAPERY, ETC... ARE SCHEDULED, CURED, OR VENTILATED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED
8. LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED. THE TERM "BUILDING" AS REFERENCED IN THIS SECTION MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON-COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.
9. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDING PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION
10. SURFACES THAT WILL BE DISTURBED BY RECONSTRUCTION MUST HAVE A DETERMINATION MADE AS TO THE PRESENCE OF LEAS. PROJECTS WHICH DISTURB SURFACES THAT CONTAIN LEAD SHALL HAVE IN SPECIFICATIONS A PLAN PREPARED BY A CERTIFIED LEAD RISK ASSESSOR OR SUPERVISOR WHICH DETAILS PROVISIONS FOR OCCUPANT PROTECTION, WORK SITE PREPARATION, WORK METHODS, CLEANING AND CLEARANCE TESTING WHICH ARE IN THE GENERAL ACCORDANCE WITH THE HUD GUIDELINES
11. PER NYS LAW, SMOKING IS PROHIBITED ANYWHERE ON SCHOOL PROPERTY, VIOLATORS WILL BE SUBJECT TO ARREST.
12. SHIRTS ARE TO BE WORN AT ALL TIMES AND NO SHORT PANTS ARE PERMITTED.
13. ANY EMPLOYEE USING INAPPROPRIATE LANGUAGE OR WHO IS DISRUPTIVE TO THE SCHOOL ENVIRONMENT WILL BE BANNED FROM THE SITE.
14. CONTRACTOR'S PERSONNEL SHALL NOT CONVERSE WITH SCHOOL EMPLOYEES, CHILDREN, OR THE PUBLIC.
15. ANY EMPLOYEE FOUND TO BE UNDER THE INFLUENCE OF ANY DRUGS OR ALCOHOL WILL BE BANNED FROM THE SITE.
16. NO DELIVERIES WILL BE ALLOWED DURING BUS DROP OR PICK UP HOURS AS DETERMINED BY THE SCHOOL.
17. USE OF THE EXISTING BUILDING FACILITIES DURING CONSTRUCTION IS PROHIBITED INCLUDING TOILET ROOMS, TELEPHONES, AND WATER FOUNTAINS.
18. CONTRACTOR'S SCHEDULE SHALL ALLOW FOR BLACKOUT DATES ESTABLISHED BY THE SCHOOL DISTRICT DURING WHICH NO NOISY WORK WILL BE ALLOWED.
19. PARKING IS RESTRICTED TO AREAS DESIGNATED BY THE OWNER. ANY CARS OR TRUCKS IN OTHER AREAS MAY BE TOWED AT THE CONTRACTOR'S EXPENSE.
20. SHOULD IT BECOME NECESSARY TO ACCESS THE EXISTING BUILDING DURING CONSTRUCTION HOURS FOR MEASUREMENTS OR OTHER NON-DISRUPTIVE WORK, THE CONTRACTOR SHALL BE ESCORTED BY THE OWNER/ARCHITECT. IDENTIFICATION BADGES SHALL BE WORN AT ALL TIMES IN THE SCHOOL.
21. NO ASBESTOS PRODUCTS ARE TO BE USED ANYWHERE ON THIS PROJECT.
22. NO LEAD PRODUCTS ARE TO BE USED ANYWHERE ON THIS PROJECT.
23. EACH CONTRACTOR IS RESPONSIBLE FOR CLEANING THEIR OWN RUBBISH. FAILURE TO MAINTAIN A CLEAN WORK SITE WILL RESULT IN OTHERS PERFORMING THE WORK AND THE CONTRACTOR(S) BEING BACK CHARGED FOR THE CLEANING COST PLUS CONSTRUCTION ADMINISTRATION FEES.
24. EACH CONTRACTOR MUST SEND A QUALIFIED REPRESENTATIVE, KNOWLEDGEABLE IN THE PROJECT AND AUTHORIZED TO MAKE DECISIONS ON BEHALF OF THE COMPANY TO EVERY PROJECT MEETING.
25. DURING THE BIDDING AND CONSTRUCTION PROCESS, EACH CONTRACTOR IS RESPONSIBLE FOR READING ALL DRAWINGS AND ALL SPECIFICATION SECTIONS AND PERFORMING ANY WORK WHICH FALLS UNDER THE CONTRACTORS TRADE.
26. DELIVERIES SENT TO THE SCHOOL STAFF WILL NOT BE SIGNED FOR OR UNLOADED. THEY WILL BE DIRECTED TO THE CONSTRUCTION SITE AND IF NO EMPLOYEE IS ON SITE, THE DELIVERY WILL NOT BE ACCEPTED.
27. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING DUST AND DIRT. ON THE EXTERIOR, THE SITE SHALL BE WATERED DOWN FREQUENTLY TO PREVENT DUST CLOUDS FROM RISING.
28. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
29. EACH CONTRACTOR SHALL SUBMIT A TWO WEEK LOOK AHEAD WORK SCHEDULE INDICATING WORK DAYS, WORK HOURS, AND MANPOWER ALLOCATION, SCHEDULE SHALL BE FAXED TO THE C.M. ON EVERY OTHER FRIDAY.
30. GENERAL CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS ADVANCED WRITTEN NOTICE TO C.M. FOR DELIVERIES OF MATERIALS, SITE VISITS BY INSPECTORS, TESTING LABS, MANUFACTURER'S REPRESENTATIVES OR ANY OTHER OCCASION THAT IMPACTS THE USE OF THE SITE.
31. NO STORAGE OF MATERIALS WILL BE PERMITTED WITHIN THE BUILDING AT ANY TIME DURING CONSTRUCTION. GENERAL CONTRACTOR MUST PROVIDE EXTERIOR STORAGE CONTAINERS WHEN REQUIRED. FINAL LOCATION OF STORAGE CONTAINERS SHALL BE BY OWNER/ARCHITECT.
32. GENERAL CONTRACTOR TO PROVIDE AND SERVICE PORTABLE LAVATORIES FOR THE DURATION OF CONSTRUCTION. GENERAL CONTRACTOR SHALL SERVICE THE LAVATORIES ON A REGULAR BASIS TO MAINTAIN SANITARY CONDITIONS.
33. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL APPROPRIATE SITE SAFETY SIGNAGE IN ADDITION TO THESE SHOWN ON C.I.P. DRAWINGS
34. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WEATHER-PROOF PROTECTION OVER ALL ROUGH OPENINGS, INCLUDING WINDOWS. GENERAL CONTRACTOR SHALL UTILIZE WHATEVER MEANS NECESSARY TO MAINTAIN COMPLETE WATER TIGHTNESS WITHIN THE BUILDING PRIOR TO WINDOWS BEING INSTALLED. GENERAL CONTRACTOR SHALL PROVIDE PROTECTION WHEN DIRECTED BY OWNER/ARCHITECT.
35. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR CONDUCTING PRE-CONSTRUCTION WALK-THROUGH AND VIDEO TAPING EXISTING CONDITIONS. WALK-THRU SHALL BE PRE-SCHEDULED THROUGH THE C.M. AND SHALL HAVE OWNER, C.M. AND CONTRACTOR PRESENT.
36. GENERAL CONTRACTOR SHALL PROTECT ALL EXISTING SUBSURFACE UTILITIES DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE ON SAME G.C. SHALL MAKE ALL REPAIRS TO ANY DAMAGED COMPONENTS AS DETERMINED BY THE ARCHITECT OR ENGINEER.
37. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL TREES, SHRUBS, GRASS AREAS, PAVEMENT, AND CONCRETE IF DAMAGED BY CONSTRUCTION.
38. GENERAL CONTRACTOR TO PROVIDE ADDITIONAL PROTECTION, BARRICADES, FENCING, SIGNAGE, AND OTHER REQUIREMENTS AS DIRECT BY THE CONSTRUCTION MANAGER.
39. ALL INTERIOR CONSTRUCTION WORK WILL REQUIRE G.C. TO PROVIDE SAFE EGRESS AND ENTIRE COST OF ALL PROVISIONS TO ACCOMPLISH SUCH WORK SHALL BE BORNE Y THE G.C.
40. ALL FENCING SHALL BE POLE DRIVEN. THE USE OF STANCHIONS SHALL NOT BE PERMITTED.
41. CONTRACTOR SHALL PROVIDE FULL HEIGHT WIND SCREEN AT ALL TEMPORARY FENCING AND SWING GATED.

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CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

REGISTERED ARCHITECT SAVERIO J. BELFIORE 033063 STATE OF NEW YORK

SAVERIO J. BELFIORE, R.A. Exp. Date
PROFESSIONAL ARCHITECT Lic. No. 033063

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K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • HARRISON CENTRAL SCHOOL DISTRICT • ADAPTABILITY • RIGOR

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
CONTRACT G
GENERAL CONSTRUCTION

STATUS
FINAL BID DOCUMENT

SHEET TITLE
STAGING PLAN, LEGEND, AND NOTES

DRAWING No.
G 001.00

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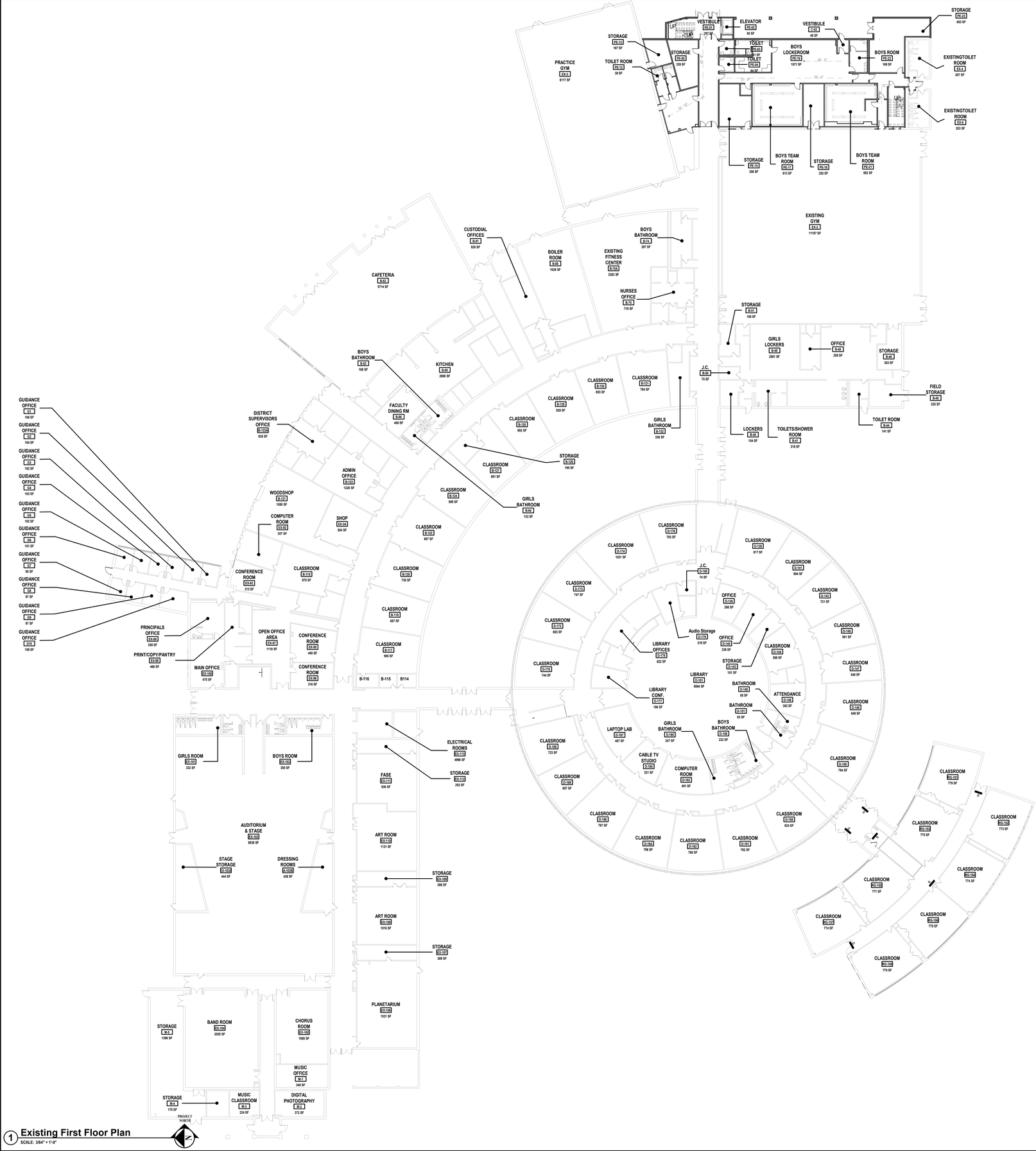

1 **Existing First Floor Plan**
SCALE: 3/64" = 1'-0"

LEGEND

ROOM ### ± S.F.	ROOM NUMBER DESIGNATION TAG
F	EXISTING FIRE EXTINGUISHER
PS	EXISTING PULL STATION
FA	EXISTING FIRE ALARM STROBE
SD	EXISTING SMOKE DETECTOR
EX	EXISTING EXIT SIGN
EL	EXISTING EMERGENCY LIGHTING
EX EL	EXISTING EXIT SIGN AND EMERGENCY LIGHTING
	EXISTING EMERGENCY LIGHTING WITH BACK-UP BATTERY

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HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
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STATUS
FINAL BID DOCUMENT

SHEET TITLE
NYS CODE ANALYSIS AND FIRST FLOOR COMPLIANCE PLAN

DRAWING No.
G 101.00

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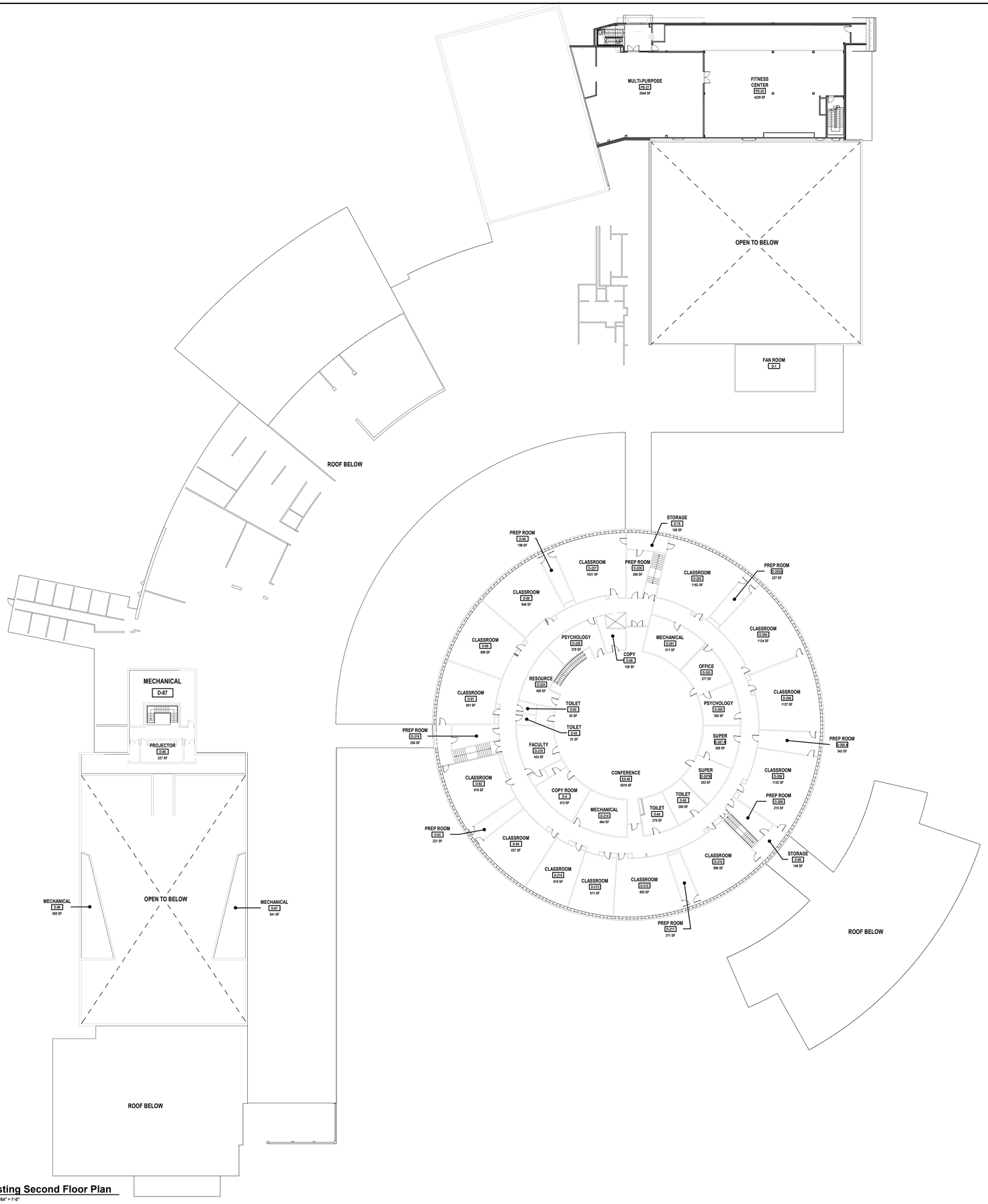

1 **Existing Second Floor Plan**
SCALE: 3/64" = 1'-0"

LEGEND

ROOM ### ± S.F.	ROOM NUMBER DESIGNATION TAG
F	EXISTING FIRE EXTINGUISHER
PS	EXISTING PULL STATION
ST	EXISTING FIRE ALARM STROBE
SD	EXISTING SMOKE DETECTOR
EX	EXISTING EXIT SIGN
EL	EXISTING EMERGENCY LIGHTING
EX EL	EXISTING EXIT SIGN AND EMERGENCY LIGHTING
	EXISTING EMERGENCY LIGHTING WITH BACK-UP BATTERY

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CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

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STATUS

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SHEET TITLE

NYS CODE ANALYSIS AND SECOND FLOOR COMPLIANCE PLAN

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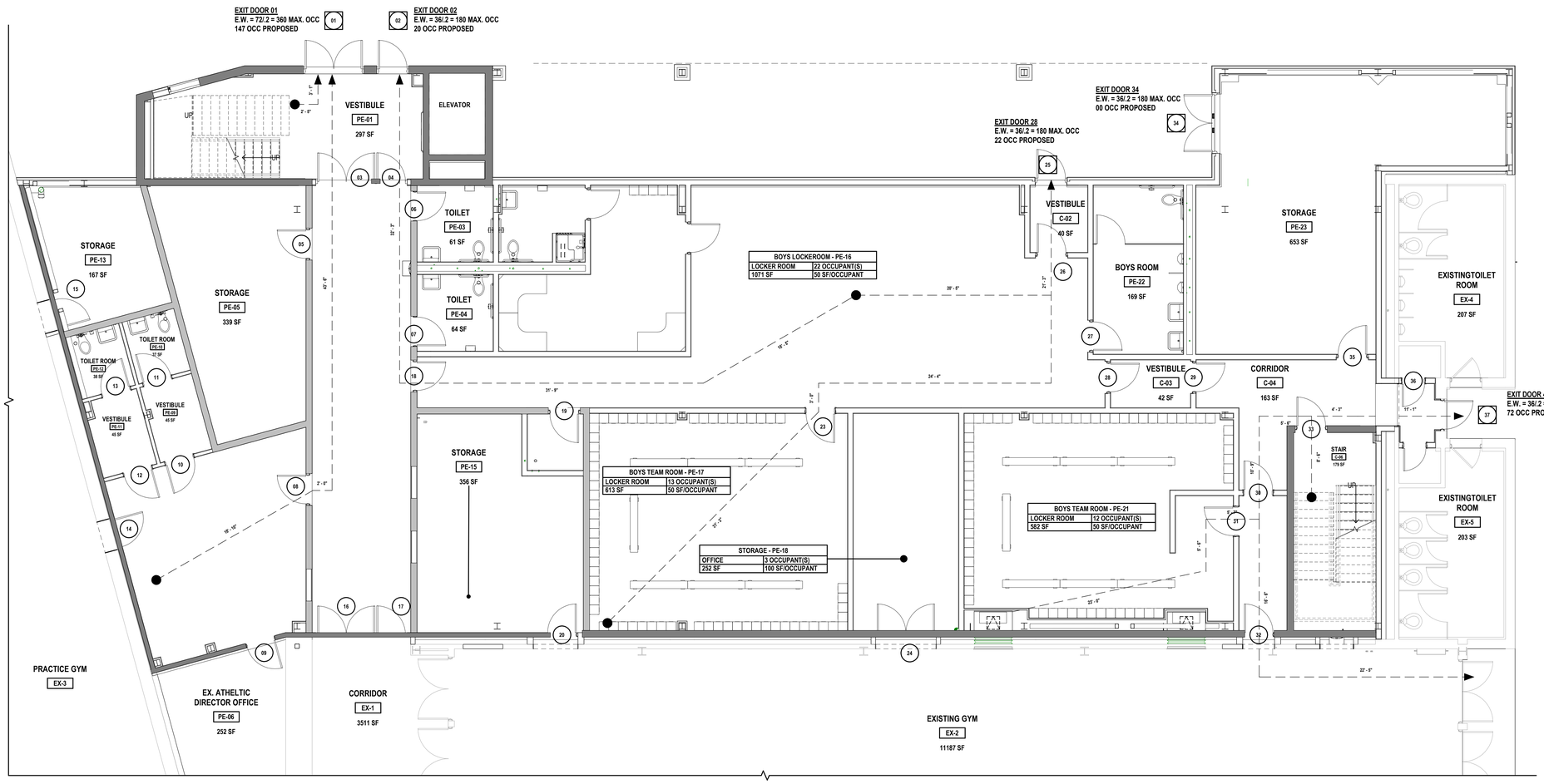


1 First Floor Code Compliance Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

GENERAL CODE NOTES

1. ALL INTERIOR WALLS AND CEILING FINISHES MUST MEET OR EXCEED THE REQUIREMENTS STATED IN 2025 NYSBC CHAPTER 8 AND TABLE 803.13.
2. STORAGE ROOMS OVER 100 S.F. SHALL BE SEPARATED BY A MINIMUM 1 HOUR FIRE SEPARATION PER 2025 NYSBC TABLE 506.2.
3. ALL GLAZING IN DOOR, FIXED SIDE PANELS ADJOINING DOORS, INTERIOR PARTITIONS WHERE GLAZING EXTENDS TO WITHIN 1'-6" OF FINISHED FLOOR AND GLASS PANELS GREATER THAN 50 SQ. FT. TO BE FULLY TEMPERED SAFETY GLASS PER 2025 NYSBC CHAPTER 7.
4. THE MINIMUM CORRIDOR WIDTH SHALL BE 8'-0" AS PER NYSED MANUAL OF PLANNING STANDARDS.
5. EXITS FROM THE BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE NUMBER OF EXITS AS REQUIRED IN 2025 NYSBC SECTION 1006.
6. TWO (2) ACCESSIBLE ENTRANCES ARE REQUIRED INTO THE BUILDING FROM THE EXTERIOR PER 2025 NYSBC SECTION 1105.1.
7. MAXIMUM ALLOWABLE TRAVEL DISTANCE SHALL NOT EXCEED 150'-0" FOR OCCUPANCY TYPE 'E' PER 2025 NYSBC SECTION 1017, TABLE 1017.2 (WITHOUT SPRINKLER SYSTEM).
8. PROVIDE PLENUM MARKING AND IDENTIFICATION OF FIRE WALLS AS PER 2025 NYSBC SECTION 703.5.
9. PROVIDE POSTING OF OCCUPANCY LOAD SIGNAGE WITHIN EVERY SPACE OF ASSEMBLY AS PER 2025 NYSBC.

ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

EXTERIOR DESIGN CONDITIONS PER TABLE 301.1
COUNTY: WESTCHESTER ZONE: 4

BUILDING ENVELOPE REQUIREMENTS PER TABLE 802.2(2), 402.1.3 & 402.5		
	REQUIRED	PROPOSED
SLAB OR BELOW BELOW GRADE WALL	R15	R15 MIN. (24" FROM EXT.)
ROOF ASSEMBLY	R33ci	R33ci
ABOVE GRADE WALL (MASS)	R13.3ci	R13.3ci
ABOVE GRADE WALL (METAL FRAMED)	R13 + 4.5ci	R13 + 4.5ci MIN.
EXTERIOR DOORS	U=.77 MAX, SHGC = .4 MAX	U=.77 MAX, SHGC = .4 MAX
EXTERIOR OPERABLE FENESTRATION	U=.43 MAX, SHGC = .4 MAX	U=.43 MAX, SHGC = .4 MAX
EXTERIOR FIXED WINDOWS FENESTRATION	U=.34 MAX, SHGC = .4 MAX	U=.34 MAX, SHGC = .4 MAX

NOTES:
1. COMPLIANCE PATH PERSCRIPTIVE REV C402.1.3
2. OPAQUE SURFACE AREA MEETS REQ OF C 402.2.

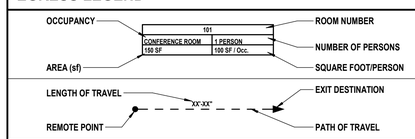
CAPACITY OF EXIT DOORS

(2025 BCNYS, SECTION 1005.3.1 , 1005.3.2 AND SECTION 1010.1.1)

DOOR #	MINIMUM WIDTH	ACTUAL WIDTH	MAXIMUM # OF PERSONS ALLOWED	MAXIMUM # OF PERSONS PROPOSED
01	32" CLEAR	69" (72" DOOR)	69 / .20 = 345	147
02	32" CLEAR	33" (36" DOOR)	33 / .20 = 165	20
28	32" CLEAR	33" (36" DOOR)	69 / .20 = 345	22
34	32" CLEAR	69" (72" DOOR)	69 / .20 = 345	0
40	32" CLEAR	33" (36" DOOR)	33 / .20 = 165	72

NOTES:
1. CLEAR WIDTH MEASURE WITH DOORS OPEN AT 90 DEGREES.
2. PROVIDE A CLEAR WDITH OF 33" MINIMUM FOR EGRESS AT SINGLE DOORS SIZED AT 36".
3. PROVIDE A CLEAR WIDTH OF 69" MINIMUM FOR EGRESS AT DOUBLE DOORS SIZED AT 72".
4. MAXIMUM NUMBER OF PERSONS/OCCUPANTS ALLOWED BASED ON BCNYS SECTION 1005.3.2, EXCEPTION 1.

EGRESS LEGEND



01	INDICATES EXIT DOOR	H1	INDICATES EXIT ACCESS DOOR
	INDICATES ADA ENTRANCE / EXIT		INDICATES EMERGENCY EXIT
	1 HOUR MIN. FIRE RATED WALL. 3/4 HOUR MIN. FIRE RATED OPENING PROTECTIVE	FEC	INDICATES FIRE EXTINGUISHER IN CABINET RECESSED. (E) INDICATES EXISTING.
	2 HOUR MIN. FIRE RATED WALL. 1 1/2 HOUR MIN. FIRE RATED OPENING PROTECTIVE	FEC (S)	INDICATES FIRE EXTINGUISHER IN CABINET SURFACE MOUNTED. (E) INDICATES EXISTING.
	NON-RATED WALL		

MINIMUM NUMBER OF EXITS PER STORY

(2025 BCNYS, TABLE 1006.3.2)

LEVEL	FLOOR AREA (SF)	OCCUPANT LOAD	MIN. # OF EXITS OR EXIT ACCESS REQ'D	# OF EXITS PROVIDED
FIRST FLOOR (FITNESS CENTER ADDITION)	7,538	80	2	4
SECOND FLOOR (FITNESS CENTER ADDITION)	8,451	143	2	2

NOTES:
1. APPLIES TO EGRESS FOR AREA OF NEW WORK
2. ACTUAL TOTAL AREA OF ADDITION AND ALTERATION = ±10,245 SF

EXIT ACCESS TRAVEL DISTANCE

(NYSED PLANNING STANDARDS 2022/ 2025 BCNYS, TABLE 1017.2

OCCUPANCY	MAXIMUM DISTANCE ALLOWED (WITHOUT SPRINKLER)	MAXIMUM DISTANCE PROVIDED (WITHOUT SPRINKLER)
EDUCATIONAL (E)	150'-0"	96'-11"

NOTES:
1. TRAVEL DISTANCE IS 200'-0" PER BCNYS TABLE 1017.2. TRAVEL DISTANCE IS 150'-0' FOR AN UNSPRINKLERED BUILDING PER NYSED PLANNING STANDARDS 2022

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

(2025 BCNYS TABLE 601 & 602)

BUILDING OCCUPANCY CLASSIFICATION: EDUCATION GROUP E - EDUCATION
CONSTRUCTION CLASSIFICATION: TYPE IIB

BUILDING ELEMENT	HOURS
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR	0
BEARING WALLS - INTERIOR	0
NONBEARING WALLS - EXTERIOR	0
NONBEARING WALLS - INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

1. VALUES LISTED REPRESENT MINIMUM GENERAL VALUES, AS REQUIRED BY THE NEW YORK STATE BUILDING CODE. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL FIRE RATING INFORMATION.
2. SEE DRAWING A-000 FOR CONSTRUCTION/PARTITION TYPES.

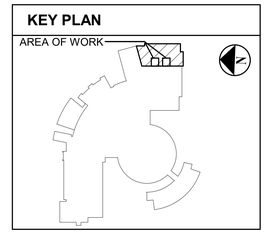
BUILDING CODE OF NEW YORK STATE

(NYSBC TABLE 504.3, 504.4 AND 506.2)

	ALLOWED	PROPOSED ADDITION
BUILDING OCCUPANCY	EDUCATION E	EDUCATION E
CONSTRUCTION CLASSIFICATION	TYPE IIB (NON-SPRINKLERED)	TYPE IIB (NON-SPRINKLERED)
HEIGHT (STORIES, NOTE 1)	TWO	TWO
HEIGHT (FEET, NOTE 1)	55'-0"	± 36'-0"
BUILDING AREA (NOTE 1)	14,500 S.F.	8,153 S.F.

NOTE:
1. AS PER NYSBC SECTIONS 503, 504 AND 506.
2. THIS PROJECT SHALL COMPLY WITH ANSI A117.1-2009 FOR HANDICAP ACCESSIBILITY.

KEY PLAN



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FIRST FLOOR EGRESS PLAN

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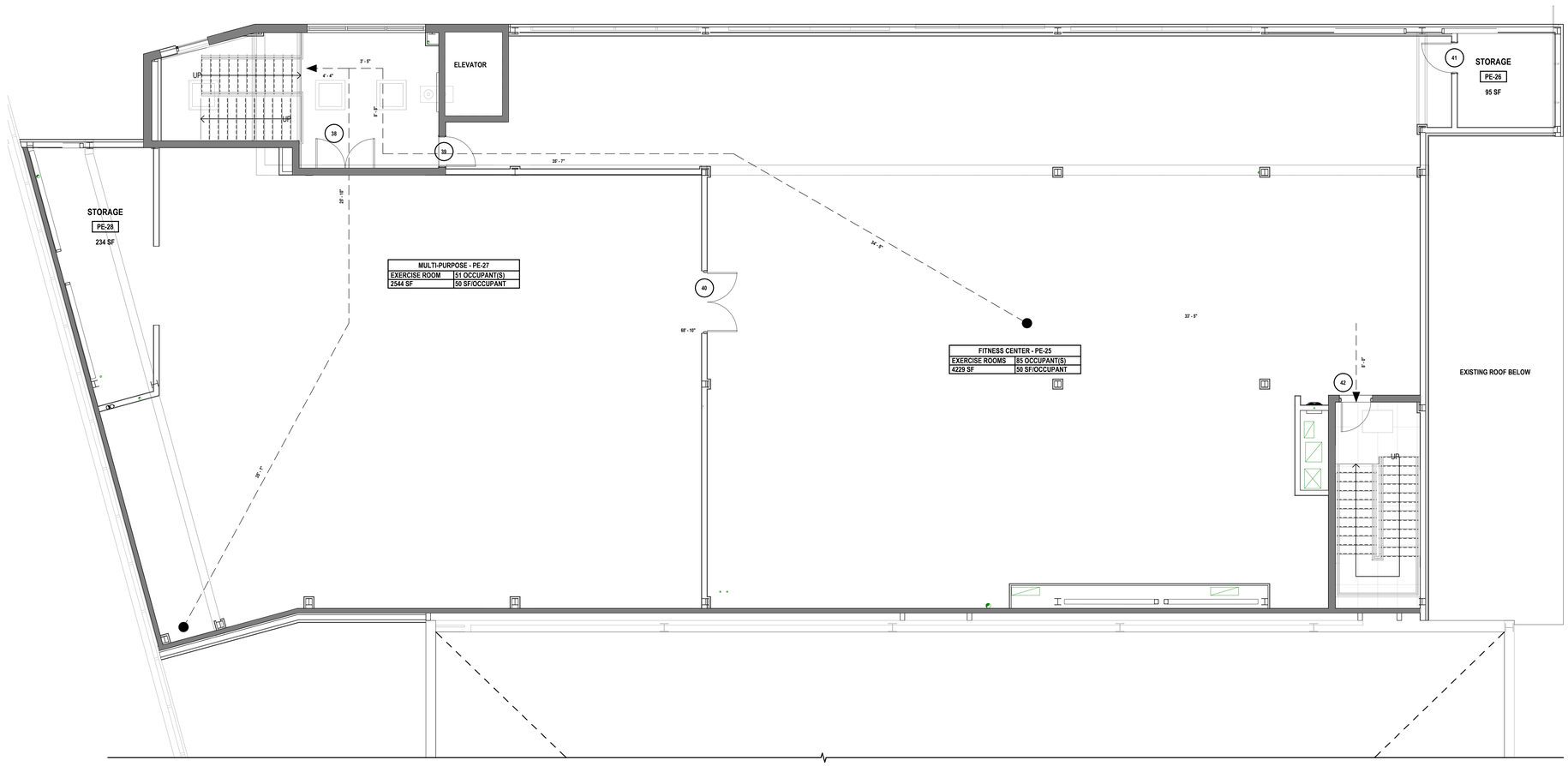
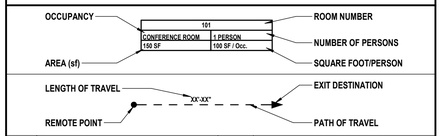


1 Second Floor Code Compliance Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

EGRESS LEGEND



01	INDICATES EXIT DOOR	01	INDICATES EXIT ACCESS DOOR
	INDICATES ADA ENTRANCE / EXIT		INDICATES EMERGENCY EXIT
	1 HOUR MIN. FIRE RATED WALL. 3/4 HOUR MIN. FIRE RATED OPENING PROTECTIVE	FEC	INDICATES FIRE EXTINGUISHER IN CABINET RECESSED. (E) INDICATES EXISTING.
	2 HOUR MIN. FIRE RATED WALL. 1 1/2 HOUR MIN. FIRE RATED OPENING PROTECTIVE	FEC (S)	INDICATES FIRE EXTINGUISHER IN CABINET SURFACE MOUNTED. (E) INDICATES EXISTING.
	NON-RATED WALL		

FIXTURE SCHEDULE

MIN. REQUIREMENTS PER TABLE 403.1 OF THE NYS 2020 PLUMBING CODE

CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS) RATIO			LAVATORIES RATIO				DRINKING FOUNTAINS RATIO	OTHER
		MALE		FEMALE	MALE		FEMALE			
		TOILETS	URINALS	TOILETS	STAND.	ACC.	STAND.	ACC.		
EDUCATIONAL	EDUCATIONAL FACILITIES	50	NOTE *	50	50				100	1 SERVICE SINK

* URINALS CANNOT BE MORE THAN 67 PERCENT OF THE REQUIRED WATER CLOSETS FOR MALES.

EXISTING FIXURE COUNT FOR TOTAL BUILDING (NOT INCLUDING NEW ADDITION)

CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS) RATIO			LAVATORIES RATIO				DRINKING FOUNTAINS	OTHER
		MALE		FEMALE	MALE		FEMALE			
		TOILETS	URINALS	TOILETS	STAND.	ACC.	STAND.	ACC.		
EDUCATIONAL	EDUCATIONAL FACILITIES	13	27	24	21	-	21	-	12	

OCCUPANT LOAD

CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS) RATIO		LAVATORIES		TOTAL STUDENT ENROLLMENT	
		MALE	FEMALE	MALE	FEMALE		
EDUCATIONAL	CLASSROOMS	624	624	624	624	1248	

NOTES:
1. CLASSROOMS AND VOCATIONAL ROOMS WITH DEDICATED TOILET FACILITIES ARE NOT INCLUDED IN TABULATION.
2. AS PER NYSED, THE NUMBER OF TOILET FIXTURES NEEDED IN A SCHOOL BUILDING IS BASED ON THE NUMBER OF PEOPLE WHO WILL BE IN THAT BUILDING.

MINIMUM REQUIREMENTS FOR TOTAL BUILDING

CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS) RATIO			LAVATORIES		DRINKING FOUNTAINS	OTHER
		MALE		FEMALE				
		TOILETS	URINALS	TOILETS	MALE	FEMALE		
EDUCATIONAL	EDUCATIONAL FACILITIES	12	NOTE *	12	12	12	12	1 SERVICE SINK

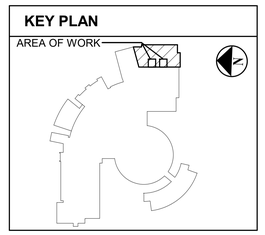
* URINALS CANNOT BE MORE THAN 67 PERCENT OF THE REQUIRED WATER CLOSETS FOR MALES.

EXISTING FIXTURE COUNT FOR TOTAL BUILDING					PROPOSED FIXTURE COUNT FOR TOTAL BUILDING			
CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS) RATIO		LAVATORIES	WATER CLOSETS (URINALS) RATIO		LAVATORIES	
		URINALS	TOILETS		URINALS	TOILETS		
EDUCATIONAL	TOILETS	27	37	42	27	39	44	

TOTAL PROPOSED FIXTURES IN NEW ADDITION (FOR STUDENTS)

ROOM NO.	DESCRPTION	WATER CLOSETS (URINALS)			LAVATORIES				DRINKING FOUNTAINS	OTHER
		MALE		FEMALE	MALE		FEMALE			
		TOILETS	URINALS	TOILETS	STAND.	ACC.	STAND.	ACC.		
-	TOILET	1	-	-	1	-	-	-	-	-
-	TOILET	-	-	1	-	-	1	-	-	-
		-	-	-	-	-	-	-	1	-
TOTAL		1	0	1	1		1		1	0

KEY PLAN



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Melville, NY 11747
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NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

REGISTERED ARCHITECT SAVERIO J. BELFIORE 033063 STATE OF NEW YORK

09/30/2026
SAVERIO J. BELFIORE, R.A.
PROFESSIONAL ARCHITECT Lic. No. 033063
Exp. Date

"IN ACCORDANCE WITH ARTICLE 145, SECTION 7209 OF THE NYS EDUCATION LAW, ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • HARRISON CENTRAL SCHOOL DISTRICT • RIGOR • ADAPTABILITY

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

STATUS
FINAL BID DOCUMENT

SHEET TITLE
SECOND FLOOR EGRESS PLAN

DRAWING No.
G 104.00

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DESIGN LOADS:

1. BUILDING CODE:
   2025 BUILDING CODE OF NEW YORK STATE WITH SUPPLEMENTS OF 2024 INTERNATIONAL BUILDING CODE AND ASCE 7-22

2. RISK CATEGORY:
   III

3. BUILDING GRAVITY LOADS:
   A. DEAD LOADS:

2ND FLOOR FITNESS, MULTI-PURPOSE, & STORAGE	60 PSF
2ND FLOOR COLLATERAL	10 PSF

REFER TO PLANS FOR ADDITIONAL LOADS FROM MECHANICAL EQUIPMENT, ETC.

   B. LIVE LOADS:

ROOF	20 PSF
FIRST FLOOR	100 PSF
STAIRS	100 PSF
CORRIDORS ABOVE FIRST FLOOR	80 PSF
SECOND FLOOR	100 PSF

   C. SNOW LOADS:

GROUND SNOW LOAD, pg	57 PSF
EXPOSURE COEFFICIENT, Ce	1.0
ROOF R VALUE	33
THERMAL COEFFICIENT, Ct	1.125
SNOW IMPORTANCE FACTOR	1.1
MINIMUM SNOW LOAD, pm	35 PSF
FLAT ROOF SNOW LOAD, pf	39.9 PSF
RAIN-ON-SNOW SURCHARGE	0 PSF

SNOW DRIFT HAS BEEN ACCOUNTED FOR IN DESIGN FOR ALL NEW STRUCTURAL MEMBERS AND ANALYSIS OF EXISTING STRUCTURAL MEMBERS.

SEE ROOF FRAMING PLAN AND APPLICABLE FRAMING SCHEDULES FOR SNOW DRIFT LOAD LOCATIONS AND MAGNITUDES (BALANCED+DRIFT) TO BE INCLUDED IN DELEGATED DESIGN.

4. WIND LOADS:

BASIC WIND SPEED, Vult:	125 MPH
ASD WIND LOAD, Vasd	106.1 MPH
EXPOSURE:	B
EXPOSURE ADJUSTMENT FACTOR:	1.0
INTERNAL PRESSURE COEFFICIENT:	Gcpi = ±0.18
END ZONE WIDTH, a	6.0 FT

DESIGN WIND ZONE:	DESIGN WIND PRESSURE:
C&C WALL (END ZONE)	26.4, -35.2 PSF
C&C WALL (INT. ZONE)	26.4, -28.6 PSF
C&C ROOF (END ZONE)	16.0, -60.7 PSF
C&C ROOF (CORNER ZONE)	16.0, -82.7 PSF
C&C ROOF (INT. ZONE)	16.0, -46.0 PSF

COMPONENT AND CLADDING VALUES LISTED ARE BASED ON 10 SQUARE FOOT "EFFECTIVE AREA" AS DEFINED BY ASCE 7-22 - 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 SHOWN, 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 OF RECORD PRIOR TO FINAL DESIGN SUBMISSION. SUBMITTAL SHALL INCLUDE EFFECTIVE AREA ASSUMPTIONS FOR EACH COMPONENT AND WIND LOAD CALCULATIONS USING PARAMETERS SPECIFIED HEREIN.

5. SEISMIC LOADS:

SEISMIC SITE CLASS	D
SEISMIC IMPORTANCE FACTOR, Ie	1.25
S_S = 0.27 g	S_1 = 0.051 g
PGA_M = .17	V_{s30} = 2.40
S_{MS} = 0.31 g	S_{M1} = 0.11 g
S_{DS} = 0.2 g	S_{d1} = 0.071 g
T_L = 6	

SEISMIC DESIGN CATEGORY	B

ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC FORCE RESISTING SYSTEM:
(STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE)

R = 3.0	C_d = 3.0	Ω_0 = 3.0

SEISMIC RESPONSE COEFFICIENT, Cs	0.086
BASE SHEAR, ULTIMATE	91.1 Kips

6. SOIL DESIGN VALUES:

SOIL BEARING CAPACITY	4,000 PSF
SUBGRADE MODULUS	200 PCI

SOIL DESIGN VALUES AS REPORTED IN GEOTECHNICAL ENGINEERING REPORT BY CARLIN SIMPSON & ASSOCIATES, DATED 03/4/2026.
THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE REQUIREMENT OF THE GEOTECHNICAL REPORT FOR ALL GROUND PREPARATION PROCEDURES.

7. ANY BUILDING COMPONENTS NOTED AS DELEGATED DESIGN ITEMS IN 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.

GENERAL NOTES:

1. SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE DRAWINGS. WHERE SPECIFICATIONS ARE IN CONFLICT WITH THE GENERAL NOTES OR DRAWINGS, THE MORE RESTRICTIVE LIMITATION SHALL APPLY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY MEASUREMENTS OR SURVEY AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM THE WORK PROPERLY.
3. ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS OF THE EXISTING CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCIES HAVE 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.
4. ALL CONNECTORS 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.
5. THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF THE 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 NEW OR EXISTING BUILDINGS, FORMS, AND SCAFFOLDING, SHORING OF RETAINING WALLS, AND OTHER TEMPORARY SUPPORTS AS REQUIRED.
6. CONTRACTOR SHALL SCHEDULE WORK IN CONSULTATION WITH THE OWNER AND IN SUCH A WAY AS TO MINIMIZE CONFLICT WITH THE OPERATION OF ANY EXISTING BUILDINGS, FACILITIES, OR RIGHTS-OF-WAY.
7. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF OSHA AND ANY OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
8. IN CASE OF ANY DAMAGE TO THE CONSTRUCTION, THE CONTRACTOR SHALL REPAIR THE SAME TO THE ENTIRE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DEMOLITION, ALTERATIONS REQUIRED, OR INTERFERENCES NOT SHOWN ON THE DEMOLITION DRAWINGS FOR RESOLUTION. THE CONTRACTOR SHALL ALLOW MINIMUM SEVEN (7) WORKING DAYS FOR RESOLUTION OF THE CONDITION UNLESS ADDITIONAL TIME IS STATED TO BE REQUIRED BY THE ENGINEER.
10. TYPICAL DETAILS ON THE 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.
11. DO NOT LOAD THE FINISHED SLAB-ON-GRADE OR ELEVATED SLABS WITH ERECTION EQUIPMENT. DO NOT STACK OR STORE CONSTRUCTION MATERIALS ON DECKS/SLABS. DO NOT CAUSE IMPACT LOADS TO DECK/SLAB DURING CONSTRUCTION.
12. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENING, SLEEVES, FINISHES, DEPRESSIONS, PADS, AND WALL OPENINGS PRIOR TO CONSTRUCTION.
13. PRINCIPAL OPENINGS THROUGH THE FRAMING AND SLABS ARE SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL REQUIRED OPENINGS AND PROVIDE FOR ALL REQUIRED OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWING 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.
14. LOADING FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS. ANY CHANGED 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.
15. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATION OF ALL SLAB DEPRESSIONS AND HOUSEKEEPING PADS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT AND/OR ENGINEER PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

BACKFILLING NOTES:

1. BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT. WHERE STRUCTURAL CONTRACT DOCUMENTS CONFLICT WITH THE GEOTECHNICAL REPORT, THE MORE RESTRICTIVE LIMITATION SHALL APPLY.
2. BACKFILLING SHALL BE DONE WITH TYPE C SAND: NATURAL RIVER OR BANK SAND, WASHED FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER. FILL SHALL BE GRADED IN ACCORDANCE WITH ANSI/ASTM C136 WITHIN THE FOLLOWING LIMITS, UNLESS DIRECTED OTHERWISE IN THE GEOTECHNICAL REPORT:

SIEVE SIZE:	PERCENT PASSING:
NO. 4	100
NO. 14	10-100
NO. 50	5-90
NO. 100	4-30
NO. 200	0-1

3. VERIFY EXISTING CONDITIONS AND SUBSTRATE ARE SUITABLE PRIOR TO BACKFILLING.
4. VERIFY EXCAVATED MATERIALS TO BE REUSED AS FILL MATERIAL ARE ACCEPTABLE PRIOR TO BACKFILLING.
5. COMPACT SUBGRADE TO 95 PERCENT MAXIMUM DRY DENSITY IN ACCORDANCE WITH ANSI/ASTMD1557.
6. CUT OUT SOFT AREAS OF SUBGRADE NOT CAPABLE OF IN-SITU COMPACTION. BACKFILL AND COMPACT TO DENSITY EQUAL TO OR GREATER THAN REQUIREMENTS FOR SUBSEQUENT BACKFILL MATERIAL.
7. BACKFILL AREAS WITH UNFROZEN MATERIALS.
8. SYSTEMATICALLY BACKFILL TO ALLOW MAXIMUM TIME FOR NATURAL SETTLEMENT. DO NOT BACKFILL OVER POROUS, WET, FROZEN OR SPONGY MATERIALS. REMOVE ANY STANDING WATER PRIOR TO BACKFILLING.
9. PLACE AND COMPACT MATERIALS IN CONTINUOUS LAYERS NOT EXCEEDING 6 INCHES COMPACTED DENSITY.
10. ALL BACKFILL MATERIALS SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DRY DENSITY IN ACCORDANCE WITH ANSI/ASTM D1557. MAINTAIN OPTIMUM MOISTURE CONTENT TO ATTAIN REQUIRED DENSITY.
11. AT COMPLETION OF FOUNDATION WALL CONSTRUCTION, BACKFILL SHALL BE PLACED LEVEL WITH FINAL TOP OF WALL ELEVATION. IF FINAL GRADING, PAVING, LANDSCAPING AND/OR STORM DRAINAGE INSTALLATION ADJACENT TO THE WALL IS NOT PLACED IMMEDIATELY AFTER COMPLETION, TEMPORARY GRADING AND DRAINAGE SHALL BE PROVIDED TO ENSURE WATER RUNOFF IS NOT DIRECTED AT THE WALL OR ALLOWED TO COLLECT OR POND BEHIND THE WALL UNTIL FINAL CONSTRUCTION ADJACENT TO THE WALL IS COMPLETED.

FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING REPORT PROVIDED BY CARLIN SIMPSON & ASSOCIATES, LLC, DATED 3/4/2025. COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT AND ANY ADDENDUMS THERETO.
2. FOOTING DESIGN IS BASED ON 4,000 PSF NET ALLOWABLE SOIL BEARING PRESSURE.
3. REFER TO THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS FOR GENERAL REQUIREMENTS OF EARTHWORK, EXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING, AND OTHER PERTINENT REQUIREMENTS AND INFORMATION. IF THERE IS A CONFLICT BETWEEN GEOTECHNICAL REPORT AND STRUCTURAL PLANS OR SPECIFICATIONS, THE MORE STRINGENT CRITERIA SHALL APPLY UNLESS OTHERWISE DIRECTED BY AN RFI.
4. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION JOINT MATERIAL. LOWER CONTINUOUS FOOTINGS PERPENDICULAR WITH A SLOPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS. LOWER FOOTING PARALLEL TO PIPE RUNS TO AVOID DISCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
5. MAINTAIN SPECIFIED SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
6. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE.
7. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE.
8. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

CONCRETE NOTES:

1. PROVIDE BATCH MIXING, TRANSPORTATION, PLACING, AND CURING OF CONCRETE IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 301 AND ACI 318, LATEST EDITIONS.
2. USE TYPE I PORTLAND CEMENT UNLESS NOTED OTHERWISE. PROVIDE ADMIXTURES AND SPECIAL REQUIREMENTS AS SPECIFIED. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) CONCRETE, U.O.N.
4. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH (f'c) AS FOLLOWS:

A. FOOTINGS, PIERS, AND FOUNDATION WALLS	4,000 PSI
B. STRUCTURAL FOUNDATION SLABS	4,000 PSI
C. SLABS-ON-GRADE	4,000 PSI
D. ALL OTHER CONCRETE, U.O.N.	4,000 PSI

5. ALL CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50 +/- 0.10.
6. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED, WITH AN AIR CONTENT OF 6% +/- 1%.
7. ALL TROWELED CONCRETE SHALL BE AIR-ENTRAINED, WITH AN AIR CONTENT OF 3% +/- 1%
8. PROVIDE CONCRETE MIXES DESIGNED BY A QUALIFIED TESTING LABORATORY FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. CONCRETE MIXES SHALL INCLUDE ALL PROPOSED ADMIXTURES, AND WEIGHTS/VOLUMES OF ALL COMPONENT MATERIALS, INCLUDING SOURCE AND/OR MANUFACTURER PRODUCT INFORMATION. CONCRETE MIX DESIGNS SHALL BE PROVIDED FOR EACH TYPE OF CONCRETE REQUIRED ON PROJECT.
9. PROVIDE CONSTRUCTION AND CONTROL JOINTS AS REQUIRED BY ACI CODE AND AS INDICATED ON DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED BY STRUCTURAL ENGINEER. SUBMIT PLAN TO ENGINEER INDICATING PROPOSED CONTROL AND EXPANSION JOINT LOCATIONS IN CONCRETE SLABS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
10. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH ACI 305.1 AND ACI 305R FOR HOT-WEATHER CONCRETING.
11. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH ACI 306.1 AND ACI 306R FOR COLD-WEATHER CONCRETING. DO NOT PLACE CONCRETE AGAINST FROZEN SURFACES.
12. CHAMFER EXPOSED CONCRETE EDGES 3/4 INCH, UNLESS NOTED OTHERWISE.
13. WIRE BRUSH AND CLEAN CONSTRUCTION JOINTS PRIOR TO POURING NEW CONCRETE.
14. PROVIDE ADEQUATE STRUCTURAL FRAMING AS APPROVED BY STRUCTURAL ENGINEER FOR ALL WALLS AND SLABS THROUGH THE SLABS, WALLS AND FLOOR DECK.
15. PROVIDE BROOM FINISH ON ALL SLABS, U.O.N. COORDINATE FINISH WITH ARCHITECTURAL AND/OR CIVIL DRAWINGS. FOR SIDEWALKS, PROVIDE FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.
16. PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI 301, ACI 315, AND ACI 318, LATEST VERSIONS.
17. PROVIDE NEW BILLET STEEL REINFORCING BARS IN ACCORDANCE WITH ASTM A615, GRADE 60.
18. COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDS AND ANCHOR RODS. SET ANCHOR RODS WITH A TEMPLATE. SECURELY ATTACH EMBEDDED ITEMS TO FORMWORK OR REBAR.
19. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT. PROVIDE STANDARD 90-DEGREE HOOKS IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.
20. MAINTAIN THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL UNLESS NOTED OTHERWISE:
    A. CONCRETE CAST AGAINST EARTH: 3 INCHES
    B. CONCRETE EXPOSED TO WEATHER:
       NO. 6 AND LARGER: 2 INCHES
       NO. 5 AND SMALLER: 1 1/2 INCHES
    C. CONCRETE NOT EXPOSED TO WEATHER AND NOT IN CONTACT WITH THE GROUND:
       SLABS AND WALLS, NO. 11 AND SMALLER: 3/4 INCHES
21. DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY STRUCTURAL ENGINEER.
22. WHEN SPECIFICALLY APPROVED, PROVIDE WELDED REINFORCEMENT IN ACCORDANCE WITH ASTM A706, 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.
23. WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF MAIN REINFORCING, U.O.N.
24. COORDINATE PLACEMENT OF REINFORCING DOWELS TO MASONRY WALLS WITH MASONRY WALL CELL LOCATIONS.
25. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90-DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DETAILS.

EXCAVATION NOTES:

1. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT. WHERE STRUCTURAL CONTRACT DOCUMENTS CONFLICT WITH THE GEOTECHNICAL REPORT, THE MORE RESTRICTIVE LIMITATION SHALL APPLY.
2. PROTECT ALL ABOVE AND BELOW GRADE UTILITIES WHICH ARE TO REMAIN.
3. PROTECT ALL PLANT LIFE, LAWNS, AND OTHER FEATURES REMAINING AS A PORTION OF THE FINAL LANDSCAPING.
4. PROTECT BENCHMARKS, EXISTING STRUCTURES, FENCES, SIDEWALKS, ROADWAYS, FINISHED PAVING, AND CURBS FROM EXCAVATION EQUIPMENT AND VEHICULAR TRAFFIC.
5. GRADE TOP PERIMETER OF EXCAVATION TO PREVENT SURFACE WATER FROM DRAINING INTO EXCAVATION.
6. HAND TRIM EXCAVATION. REMOVE LOOSE MATTER.
7. REMOVE LUMPED SUBSOIL, BOULDERS, AND ROCK.
8. UNSUITABLE BEARING MATERIAL, AS DEFINED IN THE PROJECT GEOTECHNICAL REPORT, IS TO BE REMOVED AND REPLACED WITH SUITABLE FILL PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
9. NOTIFY ENGINEER OF UNEXPECTED SUBSURFACE CONDITIONS AND DISCONTINUE WORK IN AFFECTED AREA UNTIL NOTIFIED TO RESUME WORK.
10. CORRECT UNAUTHORIZED EXCAVATION AT NO EXTRA COST TO OWNER IN ACCORDANCE WITH BACKFILLING NOTES.
11. STOCKPILE EXCAVATED MATERIAL IN AREA DESIGNATED ON SITE AND REMOVE EXCESS MATERIAL NOT BEING REUSED FROM SITE. DO NOT STOCKPILE EXCAVATED MATERIAL WITHIN 10 FEET, OR A DISTANCE EQUAL TO THE DEPTH OF EXCAVATION, OF THE EDGE OF EXCAVATION.
12. PROTECT EXCAVATIONS BY METHODS REQUIRED TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO EXCAVATION.
13. VERIFY LOCATION OF EXISTING STRUCTURES AND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL ENSURE ALL SURROUNDING STRUCTURES ARE PROTECTED FROM ALL EFFECTS OF EXCAVATION, INCLUDING BUT NOT LIMITED TO: SETTLEMENT, SLIDING, CAVE-IN, AND VIBRATION.
14. SLOPE SIDES OF EXCAVATIONS AT A MAXIMUM SLOPE OF 1.5H:1V, UNLESS STEEPER SLOPE IS PERMITTED BY THE GEOTECHNICAL ENGINEER.
15. WHERE THE REQUIRED EXCAVATION SLOPE CANNOT BE PROVIDED, CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SUPPORT OF EXCAVATION (SOE) DESIGN FOR VERTICAL EXCAVATION. SUPPORT OF EXCAVATION DESIGN SHALL INCLUDE EXCAVATION PLAN, SECTIONS, AND NOTES, AND BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION.

CURTAIN WALL SYSTEM NOTES:

1. CURTAIN WALL SYSTEM SHALL BE DESIGNED TO MEET THE MOST STRINGENT MINIMUM LOADING AND SERVICEABILITY REQUIREMENTS SPECIFIED IN DESIGN NOTES HEREIN AS WELL AS THOSE INDICATED IN THE SPECIFICATIONS. CURTAIN WALL SYSTEM MUST BE DESIGNED AS A DEAD LOAD SYSTEM BEARING ON FOUNDATIONS OR STEEL BEAMS WHERE SPECIFICALLY NOTED IN PLANS. NO COMPONENTS OF THE SYSTEM SHALL BE HUNG FROM STEEL SUPPORTS ABOVE UNLESS SPECIFICALLY INDICATED IN PLANS. MANUFACTURER SUPPLIED CLIPS SHALL BE PROVIDED BY GC FOR LATERAL ATTACHMENT TO STRUCTURE.

STRUCTURAL STEEL NOTES:

1. DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE FOLLOWING, LATEST EDITIONS:
   A. AISC 360, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   B. AISC MANUAL OF STEEL CONSTRUCTION
   C. AISC 303, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   D. AWS D1.1, "STRUCTURAL WELDING CODE"
2. PROVIDE STRUCTURAL STEEL OF THE FOLLOWING ASTM DESIGNATIONS, UNLESS NOTED OTHERWISE:
   A. WIDE FLANGE SHAPES: A992
   B. CHANNELS, ANGLES: A36
   C. HOLLOW STRUCTURAL SECTIONS, RECTANGULAR: A500, GR. C
   D. HOLLOW STRUCTURAL SECTIONS, CIRCULAR: A500, GR. C
   E. STRUCTURAL PIPE: A53, GR. B
   F. H-PILES: A572, GR. 50
   G. HIGH-STRENGTH PLATES, BASEPLATES:A572, GR. 50
   H. ANCHOR RODS: F1554, GR. 55
3. PROVIDE CONNECTION MATERIALS OF THE FOLLOWING ASTM DESIGNATIONS, U.O.N.:
   A. STIFFENER AND DOUBLER PLATES TO MATCH THE GRADE OF PRIMARY STRUCTURAL MEMBER.
   B. HIGH STRENGTH BOLTS: F3125, GR. A325
   C. HARDENED STEEL WASHERS: F436
   D. THREADED RODS: A36
4. WELD MINIMUM SIZE AND STRENGTH:
   A. FILLET WELDS SHALL NOT BE SMALLER THAN THE MINIMUM SIZE 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. SIZE WELDS IN TENSION CONNECTIONS TO DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER ELEMENT JOINED ON ALL SHOP AND FIELD WELDS, UNLESS NOTED OTHERWISE ON DRAWINGS.
   D. WHERE CONNECTIONS ARE NOTED ON DRAWINGS AS MOMENT CONNECTIONS, PROVIDE WELDS TO DEVELOP THE FULL FLEXURAL CAPACITY OF THE LESSER MEMBER. PROVIDE ELECTRODES FOR FIELD AND SHOP WELDING THAT CONFORM TO ASTM A233 (CLASS T9).
   E. ALL WELDS ARE CONTINUOUS FOR THE FULL LENGTH OF THE CONNECTION, UNLESS NOTED OTHERWISE ON DRAWINGS.
5. PROVIDE MINIMUM OF TWO BOLTS PER BOLTED CONNECTION. MINIMUM BOLT DIAMETER IS 3/4 INCH.
6. PROVIDE BOLTS, NUTS, AND WASHERS THAT ARE HOT DIP GALVANIZED ACCORDING TO ASTM A153, CLASS C, WHEN USED TO CONNECT STEEL ELEMENTS THAT ARE HOT DIP GALVANIZED AFTER FABRICATION.
7. SUBMIT CALCULATIONS FOR CONNECTION DESIGNS NOT FULLY DETAILED ON DRAWINGS. DESIGN CONNECTIONS UNDER SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE PROJECT IS BEING CONSTRUCTED, AND EMPLOYED BY THE STEEL FABRICATOR. DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY FABRICATOR'S REGISTERED PROFESSIONAL ENGINEER. SHOP DRAWINGS SUBMITTED WITHOUT COMPLETE DESIGN CALCULATIONS MAY NOT BE REVIEWED.
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. CONNECTION DESIGNER SHALL DESIGN SHEAR CONNECTION FOR THE LARGER OF:
   A. REACTION SHOWN ON DRAWINGS, OR
   B. MAXIMUM END REACTION RESULTING FROM THE APPLICATION OF THE ALLOWABLE UNIFORM LOADS LISTED IN TABLES OF PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION, PLUS ANY 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.
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 OF THE ENGINEER OF RECORD.
   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. ERECTION TOLERANCES SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE.
   E. FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.
   F. CLEAN STEEL OF RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP, WELDING, PRIMING, OR PAINTING.
   G. DO NOT CUT STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR REVIEW AND APPROVAL OF THE ENGINEER OF RECORD.
10. HOT DIP GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL AND THEIR CONNECTIONS PERMANENTLY EXPOSED TO WEATHER OR CORROSIVE ENVIRONMENTS. ITEMS INCLUDED BUT NOT LIMITED TO:
    A. SHELF ANGLES
    B. LOOSE LINTELS
    C. PLATES EMBEDDED IN CONCRETE
11. EXAMINE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR OTHER ITEMS THAT REQUIRE HOT-DIPPED GALVANIZATION.
12. PROVIDE DECK SUPPORT PLATES AND/OR ANGLES AT ALL COLUMNS.
13. 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 REGISTERED IN THE STATE OF THE PROPOSED CONSTRUCTION, AND ALL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY SAID ENGINEER.
14. HEADED STUDS (SHEAR):
    A. PROVIDE HEADED STUDS (SHEAR AND

SPECIAL INSPECTIONS:

SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF THE AFOREMENTIONED BUILDING CODE, CHAPTER 17. SPECIAL INSPECTOR(S) SHALL BE RETAINED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE NAMES AND QUALIFICATIONS OF THE PERSONS AND/OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE PROVIDED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS, REPORTS, AND CERTIFICATES REQUIRED BY THE JURISDICTION WHERE CONSTRUCTION OR WORK IS LOCATED.

1. THE SPECIAL INSPECTOR(S) SHALL:
   - A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWINGS AND SPECIFICATIONS.
   - B. FURNISH INSPECTION REPORTS TO ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE ATTENTION OF THE ENGINEER AND THE BUILDING DEPARTMENT.
   - C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
2. SPECIAL INSPECTION NOTES:
   - A. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS IS REQUIRED DURING THE PERFORMANCE OF THE WORK EXCEPT WHERE THE FABRICATOR HAS BEEN APPROVED TO PERFORM THE WORK WITHOUT SPECIAL INSPECTION IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. WHERE SPECIAL INSPECTION HAS BEEN EXEMPTED DURING FABRICATION, FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE IN LIEU OF THE INSPECTION, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
   - B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN 72 HOURS, OF THE INITIATION OF ANY WORK REQUIRED TO HAVE SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.
   - C. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION UNTIL COMPLETION OF THE REQUIRED INSPECTIONS AND/OR TESTS.
3. STRUCTURAL OBSERVATION NOTES:
   - A. WHERE REQUIRED BY THE BUILDING CODE OR BUILDING OFFICIAL, OR ELECTED BY THE OWNER OR ENGINEER OF RECORD, THE ENGINEER OF RECORD OR A DESIGNATED REGISTERED PROFESSIONAL ENGINEER ACTING ON THE OWNER'S OR ENGINEER'S BEHALF MAY PERFORM STRUCTURAL OBSERVATIONS DURING CONSTRUCTION.
   - B. STRUCTURAL OBSERVATIONS DO NOT INCLUDE, OR WAIVE THE RESPONSIBILITY FOR, THE PERFORMANCE OF SPECIAL INSPECTIONS AS REQUIRED HEREIN, OR FOR ANY OTHER INSPECTIONS AS REQUIRED BY THE BUILDING CODE OR BUILDING OFFICIAL.
4. SPECIAL INSPECTIONS AND TESTS OF ELEMENTS OF BUILDINGS AND STRUCTURES SHALL MEET THE APPLICABLE REQUIREMENTS LISTED BELOW.
   - A. STEEL CONSTRUCTION:
     - a. STRUCTURAL STEEL:
       - SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES, AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360, LATEST EDITION.
     - b. COLD-FORMED STEEL DECK:
       - SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTOR(S) FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.
     - c. OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:
       - SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS IN BUILDINGS, STRUCTURES, AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH BUILDING CODE TABLE 1705.2.4.
   - B. CONCRETE CONSTRUCTION:
     - a. SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED AS LISTED BELOW AND IN ACCORDANCE WITH BUILDING CODE TABLE 1705.3, EXCEPT AS ALLOWED PER THE EXEMPTIONS LISTED IN BUILDING CODE SECTION 1705.3.
     - b. PERIODIC INSPECTION OF REINFORCING STEEL AND PRESTRESSING TENDON MATERIAL AND PLACEMENT.
     - c. PERIODIC INSPECTION OF REINFORCING STEEL WELDING, INCLUDING BAR MATERIAL AND WELDS AS REQUIRED.
     - d. PERIODIC INSPECTION OF ANCHORS CAST IN FRESH CONCRETE.
     - e. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE PER ACI 318, SECTION 17.8.
     - f. PERIODIC VERIFICATION OF USE OF REQUIRED DESIGN MIX.
     - g. FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF THE FRESH CONCRETE PRIOR TO CONCRETE PLACEMENT.
     - h. CONTINUOUS INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
     - i. PERIODIC VERIFICATION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
     - j. INSPECT PRESTRESSED CONCRETE FOR APPLICATION OF PRESTRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS.
     - k. PERIODIC INSPECTION OF ERECTION OF PRECAST CONCRETE MEMBERS.
     - l. VERIFY IN-SITU CONCRETE STRENGTH:
       - PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE, AND
       - PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
     - m. PERIODIC INSPECTION OF FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.
   - C. MASONRY CONSTRUCTION:
     - a. SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION, INCLUDING VERTICAL MASONRY FOUNDATION ELEMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602, LATEST EDITIONS, EXCEPT AS SPECIFICALLY EXEMPTED BY BUILDING CODE SECTION 1705.4
   - D. SOILS:
     - a. SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH BUILDING CODE SECTION 1705.6 AND TABLE 1705.6, INCLUDING:
       - PERIODIC VERIFICATION THAT MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
       - PERIODIC VERIFICATION THAT EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER BEARING MATERIAL.
       - PERIODIC CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.
       - CONTINUOUS VERIFICATION OF USE OF PROPER FILL MATERIALS, FILL MATERIAL DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
       - PERIODIC INSPECTION OF SUBGRADE PREPARATION PRIOR TO PLACEMENT OF COMPACTED FILL.
   - E. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ANY OTHER ELEMENTS NOT LISTED AS ABOVE AS DEEMED NECESSARY BY THE BUILDING OFFICIAL.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION 2025 NYSBC 1705.2

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE	PERIODIC STAGES	REQ.
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS COMPLIANCE:						
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	-	-	PRIOR TO ENCLOSING	Y
B. CERTIFICATE OF COMPLIANCE REQUIRED (SHOP DRAWINGS)	-	X	-	-	CONTRACTOR TO SUBMIT SHOP DRAWINGS	Y
2. INSPECTION OF HIGH STRENGTH BOLTING:						
A. BEARING-TYPE CONNECTION	-	X	AISC 360, SECTION M2.5	1704.3.3	PRIOR TO ENCLOSING	Y
B. SLIP-CRITICAL CONNECTIONS	X	X			PRIOR TO ENCLOSING	Y
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL						
A. IDENTIFICATION MARKUPS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	ASTM A6 OR ASTM A558	1708.4	PRIOR TO ENCLOSING	Y
B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS	-	X			CONTRACTOR TO SUBMIT	Y
4. MATERIAL VERIFICATION OF FILLER MATERIALS:						
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	AISC 360, SEC. A3.5 -	1708.4	PRIOR TO ENCLOSING	Y
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED (SHOP DRAWINGS)	-	X			CONTRACTOR TO SUBMIT AS SHOP DRAWINGS	Y
5. INSPECTION OF WELDING:						
A. STRUCTURAL STEEL						
1. COMPLETE & PARTIAL PENETRATION GROOVE WELD	-	X	AWS D1.1	-		Y
2. MULTI-PASS FILLET WELDS.	-	X	AWS D1.1	-		Y
3. SINGLE-PASS FILLET WELDS > 5/16" (7.9 MM)	-	X	AWS D1.1	-		Y
4. SINGLE-PASS FILLET WELDS < 5/16" (7.9 MM)	-	X	AWS D1.1	-		Y
5. FLOOR & ROOF DECK WELDS	-	X	AWS D1.3	-		Y
B REINFORCING STEEL					PRIOR TO ENCLOSING	
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	-	X	AWS D1.4 ACI 318: 3.5.2	-		N
2. REINFORCING STEEL-RESISTING FLEXURAL & AXIAL FORCES IN INTERMEDIATE & SPECIAL MOMENT FRAMES, & BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, & SHEAR REINFORCEMENT	-	X		-		N
3. SHEAR REINFORCEMENT	-	X		-		N
4. OTHER REINFORCING STEEL	-	X		-		N
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS						
A. DETAILS SUCH AS BRACING AND STIFFENING	-	-	-	1704.3.2	PRIOR TO ENCLOSING	Y
B. MEMBER LOCATIONS	-	-	-			Y
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	-	-	-			Y
7. COLD-FORMED STEEL DECK						
A. SDI DECK INSPECTION PROGRAM	X	X	SDI QA/QC 2022 C1/C2 & D1-D4 APPENDIX 1	1705.2, 1705.2.2	PRIOR TO ENCLOSING	Y
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED (SHOP DRAWINGS & SUBMITTALS)	-	X	SDI QA/QC 2022 B1/B2	1705.2, 1705.2.2		Y

TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE	PERIODIC STAGES	REQ.
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.1 - 26.6.3	1705.3, 1908.4	PRIOR TO STARTING POURS WHERE CONCRETE IS TO BE SAMPLED	Y
2. REINFORCING BAR WELDING:						
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	AWS: D1.4 ACI 318: 26.6.4			Y
B. INSPECT WELDING OF REINFORCEMENT FOR SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS;	X	-	AWS: D1.4 ACI 318: 26.13.3	1705.3, 1705.3.1	PRIOR TO ENCLOSING	N
C. INSPECT WELDED REINFORCEMENT SPLICES;	X	-	-			Y
D. INSPECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS;	X	-	-			N
E. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND:	-	X	AWS: D1.4 ACI 318: 26.13.3			Y
F. INSPECT ALL OTHER WELDS.	-	X				Y
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	1705.3	-	Y
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.						
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 26.13.3.2	1705.3	WHEN INSTALLED	Y
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	-	X	ACI 318: 26.13.3			Y
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1705.3, 1904.1, 1908.2	EACH TIME FRESH CONCRETE IS SAMPLED	Y
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172, C31 ACI 318: 26.5, 26.12	1705.3, 1908.10	EACH TIME CONCRETE CYLINDERS TAKEN	Y
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1705.3, 1908.6-8	EACH TIME FRESH CONCRETE IS SAMPLED	Y
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3 - 26.5.5	1705.3, 1908.9	(1) UNANNOUNCED INSPECTION FOR EVERY 250 CY. OF CONCR. PLACED FOR ENTIRE PROJ.	Y
9. INSPECT PRESTRESSED PRESTRESSED CONCRETE FOR:						
A. APPLICATION OF PRESTRESSING FORCES; AND	X	-	ACI 318: 26.10	1705.3	-	N
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-				N
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26.9	1705.3	PRIOR TO ENCLOSING	N
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:			ACI 318: 26.13.1.3 ACI 550.5	-	-	
A. INSTALLATION OF THE EMBEDDED PARTS.	X	-				N
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	X	-				N
C. COMPLETION OF CONNECTIONS IN THE FIELD.	X	-				N
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	-	X	ACI 318: 26.13.1.3	-	-	N
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	1705.3	-	N
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)		-	Y
15. MATERIAL TESTS - IN ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION FOR MATERIALS.	-	X	ACI 318 Ch. 19 - 20		-	Y

FOR SI: 1 INCH = 25.4 mm.
- A. WHERE APPLICABLE, SEE SECTION 1705.13. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
- B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2. IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIED REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION

MINIMUM VERIFICATION	FREQUENCY (a)			REFERENCE FOR CRITERIA		IBC REFERENCE	PERIODIC STAGES	REQ.
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	IBC REFERENCE			
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:								
A. PROPORTIONS OF SITE-PREPARED MORTAR	NR	P	P	-	ART. 2.1, 2.6 A, & 2.6 C			Y
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGE	NR	P	P	-	ART. 2.4 B & 2.4 M & 2.4 N			Y
C. GRADE, TYPE AND SIZE AND REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	-	ART. 2.4 A, D, E, F, G, H, I, J, K, & L			Y
D. PRESTRESSING TECHNIQUE	NR	P	P	-	ART. 3.6 B			N
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C[b]/[P(c)]	P	-	ART. 2.1 C.1			N
F. SAMPLE PANEL CONSTRUCTION	NR	P	P	-	ART. 1.6 D			N
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:								
A. GROUT SPACE	NR	P	C	-	ART. 3.2 D & 3.2 F			Y
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	SEC. 10.8 & 10.9	ART. 3.6			Y
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 3.2 E & 3.4			Y
D. PROPORTIONS OF SITE-PREPPED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	NR	P	P	-	ART. 2.6 B & 2.4 M.1.b			Y
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:								
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	P	P	-	ART. 1.5			Y
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	P	P	-	ART. 3.3 B			Y
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	P	P	-	ART. 3.3 G			Y
D. TYPE, SIZE, AND LOCATIONS OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	NR	P	C	SEC. 1.2.1 (e), 6.2.1 & 6.3.1	-			Y
E. TYPE, SIZE, AND LOCATION OF VENEER TIES & MOVEMENT JOINTS	NR	P	C	SEC. 13.2	ART. 3.4 D			Y
F. INSTALLATION OF ADHERED VENEER	P[d]	P[d]	-	SEC. 13.3	ART. 3.3 D			Y
G. WELDING OF REINFORCEMENT	NR	C	C	SEC. 6.1.7.3	-			N
H. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	NR	P	P	-	ART. 1.8 C & D			N
I. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	NR	C	C	-	ART. 3.6 B			N
H. PLACEMENT OF GROUT	NR	C	C	-	ART. 3.5			N
J. PLACEMENT OF PRESTRESSING GROUT FOR BONDED TENDONS	NR	C	C	-	ART. 3.6 C			N
K. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C[b]/[P(c)]	C	-	ART. 3.3 B.8 & 3.3 G.1.b			N
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	NR	P	P	-	ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4			Y

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE. NR = NOT REQUIRED, P = PERIODIC, C = CONTINUOUS
(b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (456 SQUARE METERS) OF AAC MASONRY
(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
(d) PERIODIC INSPECTION OF VENEERS IS REQUIRED WHEN THE HEIGHT OF THE VENEER EXCEEDS 60 FT (18.3 m) ABOVE GRADE PLANE.

TABLE 1705.2.4 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND GIRDERS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	PERIODIC STAGES	REQ.
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.	-	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	PRIOR TO ENCLOSING	Y
A. END CONNECTIONS - WELDING OR BOLTED.	-	-			Y
B. BRIDGING - HORIZONTAL OR DIAGONAL.					
2. STANDARD BRIDGING.	-	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	PRIOR TO ENCLOSING	Y
3. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	-	X	-	PRIOR TO ENCLOSING	Y

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE	PERIODIC STAGES	REQ.
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X	-	-	AT COMPLETION OF EXCAVATION	Y
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X	-	-	AT COMPLETION OF EXCAVATION	Y
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X	-	-	AT COMPLETION OF COMPACTION	Y
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-	-	-	-	Y
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X	-	-	AT COMPLETION OF EXCAVATION	Y

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CONSULTANTS:

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4/30/2027
Exp. Date

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PROJECT NO:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT
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Fitness Center Addition at Harrison High School

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255 Union Ave, Harrison, NY 10528

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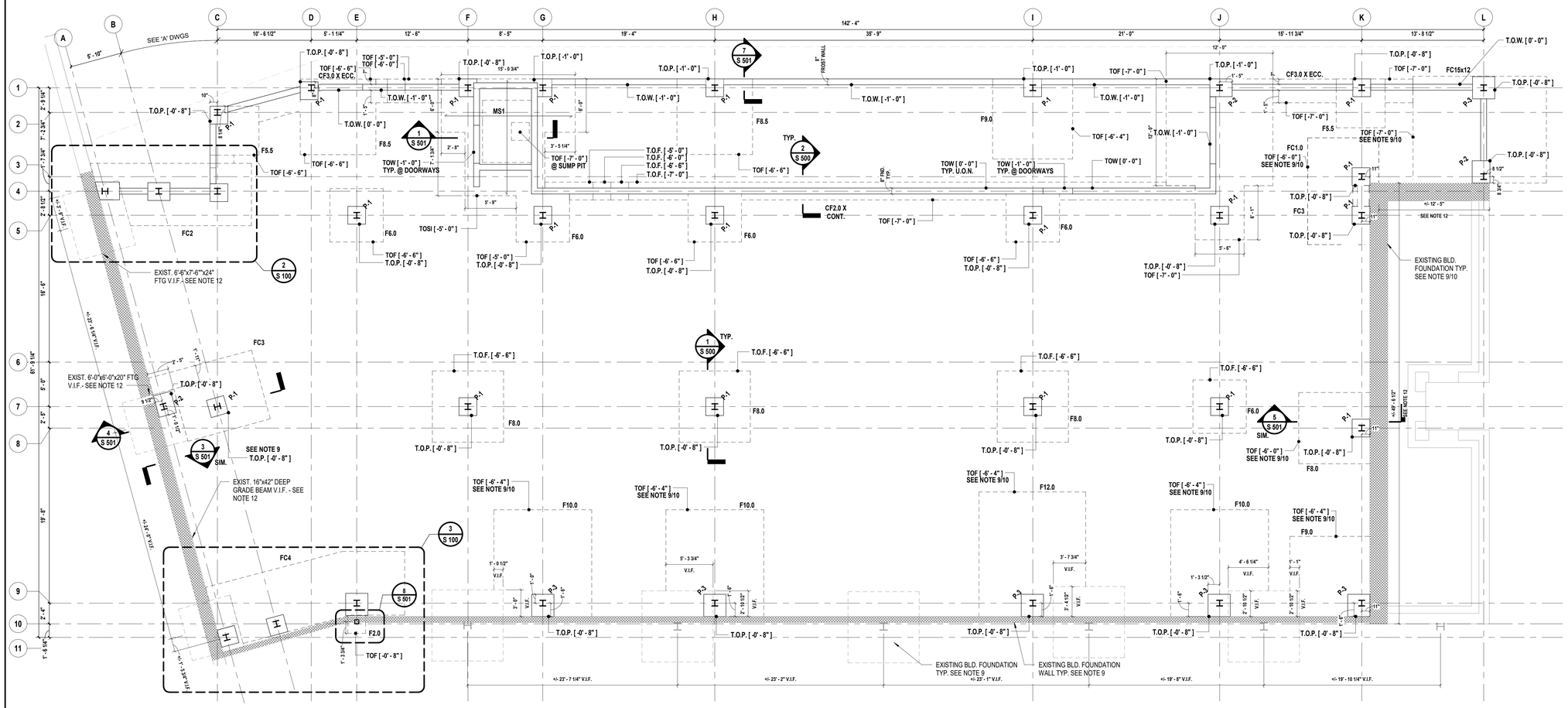


1 Foundation Plan - Fitness Center

SCALE: 3/16" = 1'-0"

FOUNDATION PLAN NOTES:

1. MS1 INDICATES 24" THICK MAT SLAB W/ #6 @ 12" O.C. BOT. E.W., & #6 @ 12" O.C. TOP E.W.
2. ELEVATIONS SHOWN THUS [ ] ARE RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"]. FINAL ELEVATIONS OF PROPOSED FOOTINGS ABUTTING THE EXISTING BUILDING FOUNDATION TO BE COORDINATED WITH THE EXISTING FOUNDATION ELEVATIONS THAT ARE TO BE VERIFIED IN FIELD.
3. ALL EXCAVATED EARTH SHALL BE REPLACED WITH CONTROLLED FILL AS PER SPECIFICATION SECTIONS AND/OR GEOTECHNICAL REPORT.
4. ALL CONCRETE PEDESTALS AND COLUMN FOOTINGS SHALL BE CENTERED ON THE COLUMN UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF ALL REQUIRED PIPING AND CONDUIT PENETRATIONS THROUGH FOUNDATION WALL WITH ALL OTHER CONTRACTS. PROVIDE PIPE SLEEVES AND REINFORCEMENT AROUND PENETRATIONS AS PER DETAIL 2 / S 501 .
6. REFER TO 'A' DWGS FOR WATERPROOFING REQUIREMENTS.
7. COORDINATE LOCATIONS OF REINFORCEMENT DOWELS INTO BUILDING WALLS WITH MASONRY TRADE.
8. IF OVER EXCAVATION TO REMOVE UNSUITABLE FILL IS REQUIRED ADJACENT TO EXISTING FOUNDATIONS, CONTRACTOR IS RESPONSIBLE FOR UNDERPINNING FOOTINGS. REFER TO HATCHED REGION FOR ANTICIPATED AREA OF UNDERPINNING, CONTRACTOR TO V.I.F.
9. CONTRACTOR TO VERIFY EXISTING FOUNDATION CONDITIONS. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
10. AS PER GEOTECHNICAL REPORT BY CARLIN SIMPSON DATED 3/4/2026, EXISTING FILL WAS ENCOUNTERED THROUGHOUT THE PROPOSED ADDITION AREAS TO DEPTHS RANGING FROM 5'-6" TO 8'-0" BELOW EXISTING GROUND SURFACE. THE DEPTH AND EXTENT OF THE EXISTING FILL IS EXPECTED TO BE VARIABLE AND MAY BE DEEPER OR SHALLOWER THROUGHOUT THE SITE. EXISTING FILL IS NOT AN ACCEPTABLE BEARING MATERIAL FOR THE NEW BUILDING ADDITION. EXCAVATIONS FOR NEW FOUNDATION WORK SHALL BE PERFORMED UNDER THE FULL-TIME INSPECTION OF A QUALIFIED LICENSED GEOTECHNICAL ENGINEER. THE ONSITE REPRESENTATIVE SHALL CONFIRM THE FOUNDATION BEARING MATERIAL. CONTRACTOR SHALL PROVIDE A UNIT PRICE IN $/CU. YD. FOR FILL REMOVAL ON THIS PROJECT ALONG WITH THE BID. IF OVER EXCAVATION IS NOT REQUIRED IN AREAS, A CREDIT TO THE OWNER WILL BE EXPECTED.
11. DEWATERING MAY BE REQUIRED. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT FOR WET SUBGRADE STABILIZATION REQUIREMENTS AND REFER TO SPECS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DEWATERING PLAN SIGNED AND SEALED BY A NYS REGISTERED ENGINEER AND SUBMITTED FOR REVIEW.
12. THE EXISTING GYMNASIUM FOUNDATION DEPTHS MAY VARY THROUGHOUT THIS FACE OF THE BUILDING. OUR ASSUMPTION FOR PLAN PURPOSES IS A 4' DEEP GRADE BEAM WITH 20" DEEP FOOTINGS AT EACH EXISTING COLUMN LOCATION. THE EXISTING FOUNDATION DEPTHS ON THIS END MAY VARY AND WILL REQUIRED VERIFICATION IN FIELD DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE A UNIT PRICE ALLOWANCE FOR UNDERPINNING THE FULL EXTENTS OF THIS FACE OF THE BUILDING IN THEIR BID. THE CONTRACTOR SHALL INSTALL AND DESIGN STEEL BRACING AS REQUIRED. DURING CONSTRUCTION, ONCE EXISTING FOUNDATION DEPTHS ARE EXPOSED, A CREDIT TO THE OWNER WILL BE EXPECTED IF UNDERPINNING IS NOT REQUIRED AT THIS END OF THE BUILDING.

LEGEND:

= ANTICIPATED EXTENTS OF UNDERPINNING. SEE NOTES 10 & 12 FOR MORE INFO

13. WHERE THE REQUIRED EXCAVATION SLOPE CANNOT BE PROVIDED, CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SUPPORT OF EXCAVATION (SOE) DESIGN FOR VERTICAL EXCAVATION. SUPPORT OF EXCAVATION DESIGN SHALL INCLUDE EXCAVATION PLAN, SECTIONS, AND NOTES, AND BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
14. ALL EXCAVATED EARTH SHALL BE REPLACED WITH WELL-GRADED SAND AND GRAVEL HAVING NOT MORE THAN 10% BY DRY WEIGHT PASSING THE NO. 200 SIEVE. THE MAXIMUM PARTICLE SIZE SHOULD BE 3 INCHES. THE FILL SHOULD BE FREE OF ORGANICS, CLAY AND OTHER DELETERIOUS OR COMPRESSIBLE MATERIALS PER THE GEOTECH REPORT. SEE GEOTECH REPORT FOR PREPARATION REQUIREMENTS.

ISOLATED FOOTING (F) SCHEDULE

Type Mark	Width	Length	Thickness	Trans Reinf	Long Reinf	COMMENTS
F2.0	2' - 0"	2' - 0"	12"	(2) #6'S Bot.	(2) #6's Bot.	
F5.5	5' - 6"	5' - 6"	18"	(7) #6's T&B	(7) #6's T&B	
F6.0	6' - 0"	6' - 0"	18"	(6) #6's T&B	(6) #6's T&B	
F8.0	8' - 0"	8' - 0"	18"	(8) #6's T&B	(8) #6's T&B	FOR ECCENTRIC CONDITIONS PROVIDE (11) #6 BARS E.W. T&B
F8.5	8' - 6"	8' - 6"	18"	(9) #6'sT&B	(9) #6's T&B	
F9.0	9' - 0"	9' - 0"	20"	(15) #6's T&B	(15) #6's T&B.	
F10.0	11' - 0"	12' - 0"	20"	(15) #6's T&B	(15) #6's T&B.	
F12.0	12' - 0"	14' - 0"	20"	(15) #6's T&B	(20) #6's T&B	
FC1.0	SEE S100.00	SEE S100.00	12"	#6's @ 9" T&B	#6's @ 9" T&B	
FC2	SEE DETAIL	SEE DETAIL	20"	#6's @ 10" T&B	#6's @ 10" T&B	
FC4	SEE DETAIL	SEE DETAIL	20"	#6's @ 10" T&B	#6's @ 10" T&B	
FC8X12	8' -0" ≥	12' - 0"	20"	#6's @ 10" T&B	#6's @ 10" T&B	
FC15X12	15' - 0"	12' - 0"	12"	#6's @ 10" T&B	#6's @ 10" T&B	

CONTINUOUS WALL FOOTING (CONT F) SCHEDULE

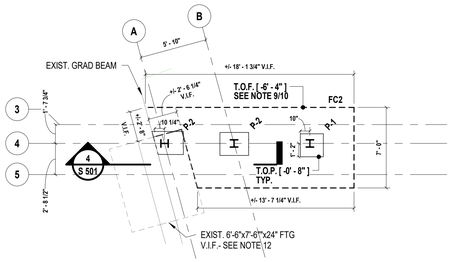
Type Mark	Width	Thickness	Trans Reinf	Long Reinf	Comments
CF2.0 X CONT.	2' - 0"	12"	(3) #5	#5 @ 12"	
CF2.8 X ECC.	2' - 8"	12"	(3) #5	#5 @ 12"	SEE PLAN FOR ECCENTRICITY
CF3.0 X ECC.	2' - 8"	12"	(3) #5	#5 @ 12"	SEE PLAN FOR ECCENTRICITY

PEDESTAL (P) SCHEDULE

Type Mark	b	h	Long Reinf	Stirrups	Stirrups - @ Top	Notes
P-1	2' - 0"	2' - 0"	(8) #6 (3x1)	#4 @ 12"	(3) #4's @ 3"	
P-2	2' - 6"	2' - 0"	(12) #6 (4x2)	#4 @ 12"	(3) #4's @ 3"	1
P-3	2' - 6"	2' - 6"	(12) #6 (4x2)	#4 @ 12"	(3) #4's @ 3"	1

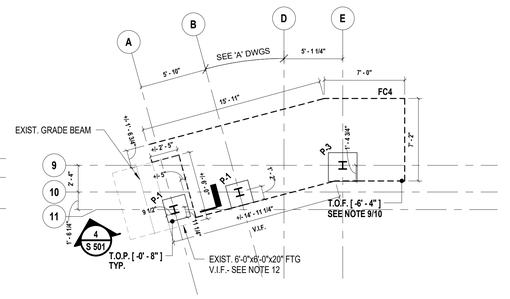
NOTES:

1. SEE DETAIL 4/S100 FOR ADDITIONAL INFORMATION
2. THE NOTATION FOR PIER REINFORCEMENT LAYOUT IS: (NUMBER OF BARS TOTAL) #BAR SIZE (NUMBER OF BARS IN 'b' DIRECTION x NUMBER OF BARS IN 'h' DIRECTION)



2 FC2.0 Partial Plan

SCALE: N.T.S.



3 FC4.0 Partial Plan

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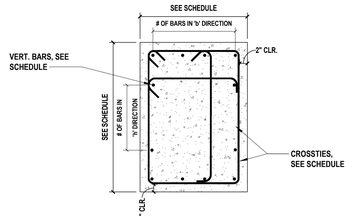

4 P-2/P-3 Detail

SCALE: NTS

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PROJECT No:	DATE:	SCALE:	
HCSD2401E	JUNE 2026	AS SHOWN	

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Fitness Center Addition at Harrison High School

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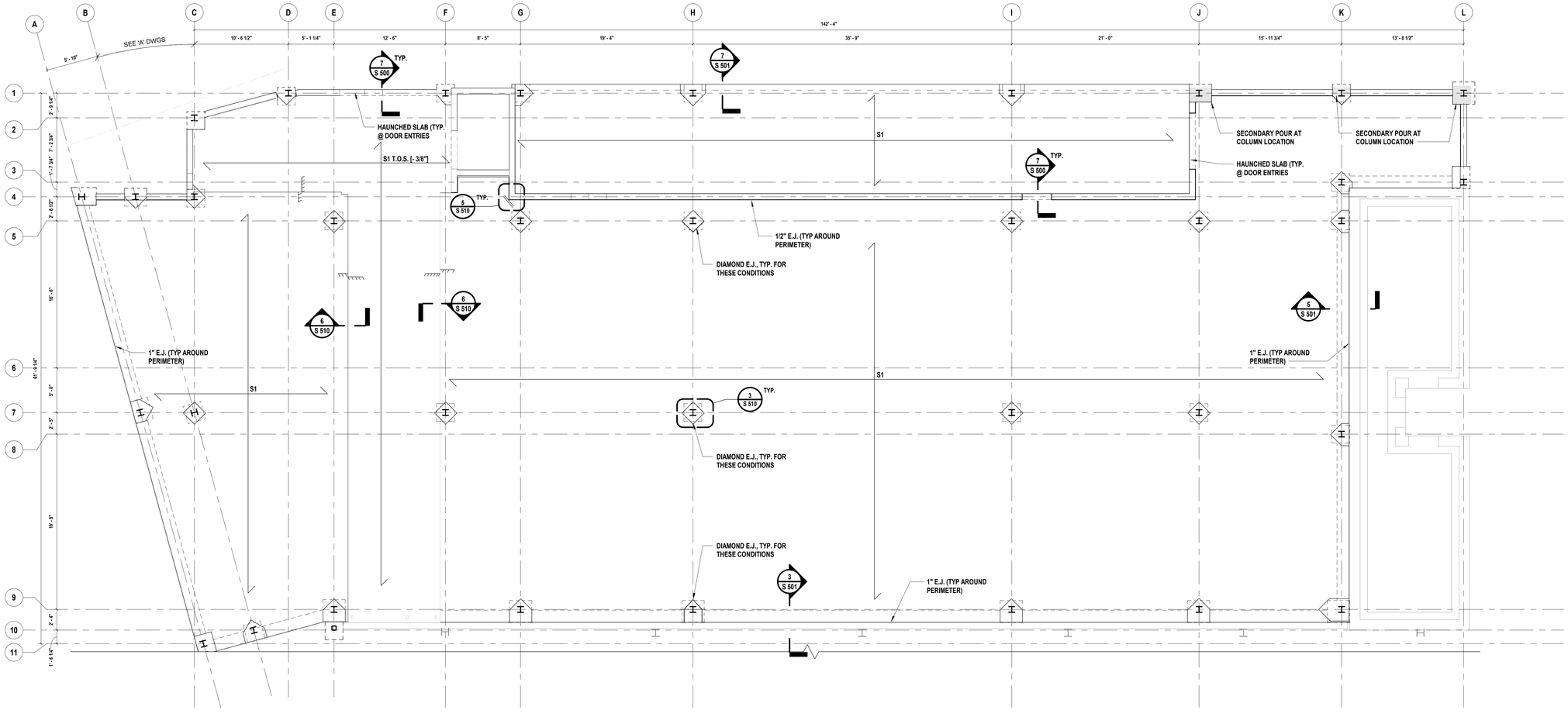


PROJECT NORTH

1 Slab Plan - Fitness Center

SCALE: 3/16" = 1'-0"

SLAB NOTES:

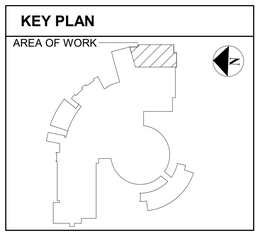
1. ELEVATIONS SHOWN THUS [ ] ARE RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"].
2. S1 INDICATES 6" CONCRETE SLAB ON GRADE REINFORCED WITH 4x4 - W2.9xW2.9 W.W.F. SEE 'A' DWGS FOR SLAB ELEVATIONS
3. PROVIDE 1/2" PRE-MOLDED EXPANSION JOINT AROUND PERIMETER OF SLAB ON GRADE WHERE IT ABUTS THE FOUNDATION WALL OF THE BUILDING.
4. PROVIDE SLAB ON GRADE CONTROL JOINTS ACCORDING TO DETAIL ON 2 / S 510 .
5. REFER TO GEOTECHNICAL REPORT FOR REQUIRED SOIL PREPARATION AND REQUIRED CRUSHED STONE THICKNESS. PROVIDE MINIMUM 6" LAYER OF 3/4" CRUSHED STONE UNDER SLAB ON GRADE

MASONRY NOTES:

1. ELEVATIONS SHALL BE ESTABLISHED RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"].
   - 1.1 INDICATES CMU WALL (SEE 'A' DWGS FOR SIZE) REINFORCED VERTICALLY WITH #6 BARS SPACED AT A MAXIMUM SPACING OF 24" O.C., TYPICAL, UNLESS OTHERWISE NOTED.
   - 1.2 INDICATES CMU WALL (SEE 'A' DWGS FOR SIZE) REINFORCED VERTICALLY WITH #5 BARS SPACED AT A MAXIMUM SPACING OF 32" O.C., TYPICAL, UNLESS OTHERWISE NOTED.
2. FILL ALL MASONRY CELLS CONTAINING REINFORCEMENT SOLID WITH GROUT, TYPICAL.
3. AT EACH SIDE OF MASONRY OPENINGS, FILL TWO CELLS WITH GROUT AND (1) #5 MIN. PER CELL VERTICALLY UNLESS NOTED OTHERWISE. AT CORNERS OF MASONRY WALLS, CORNER CELL AND ONE ADJACENT CELL TO EACH SIDE OF CORNER (3 TOTAL) ARE TO BE FILLED WITH GROUT AND (1) #5 MIN. PER CELL FROM FOOTING INTO UPPERMOST BOND BEAM UNLESS NOTED OTHERWISE. FOR WALLS WITH LARGER REBAR INDICATED IN SCHEDULE USE THE LARGER REBAR.
4. REFER TO 'A' DWGS. AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT OUTLINED HERE.
5. ALL VERTICAL REINFORCEMENT INTERRUPTED BY STRUCTURAL STEEL SHALL BE WELDED TO TOP OF STEEL MEMBERS, TYPICAL.
6. COORDINATE PLACEMENT OF VERTICAL WALL DOWELS EMBEDDED INTO FOUNDATION WALLS AND FLOOR SLABS WITH CELLS OF MASONRY WALL. DOWEL SPACING TO MATCH SPACING OF VERTICAL REINFORCEMENT IN WALLS, TYPICAL.
7. REFER TO 'A' DWGS. FOR LOCATIONS AND BRACING REQUIREMENTS OF INTERIOR MASONRY WALLS.
8. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING IN ALL WALLS AT 16" O.C. , MAXIMUM, U.O.N.
9. BOND BEAMS REINFORCED WITH (1) #5 BAR, CONTINUOUS, SHALL BE PLACED AT EACH FLOOR LEVEL AND AT TOP OF WALL, U.O.N.
10. SEE SECOND FLOOR FRAMING PLAN FOR CMU HATCHING

KEY PLAN

AREA OF WORK



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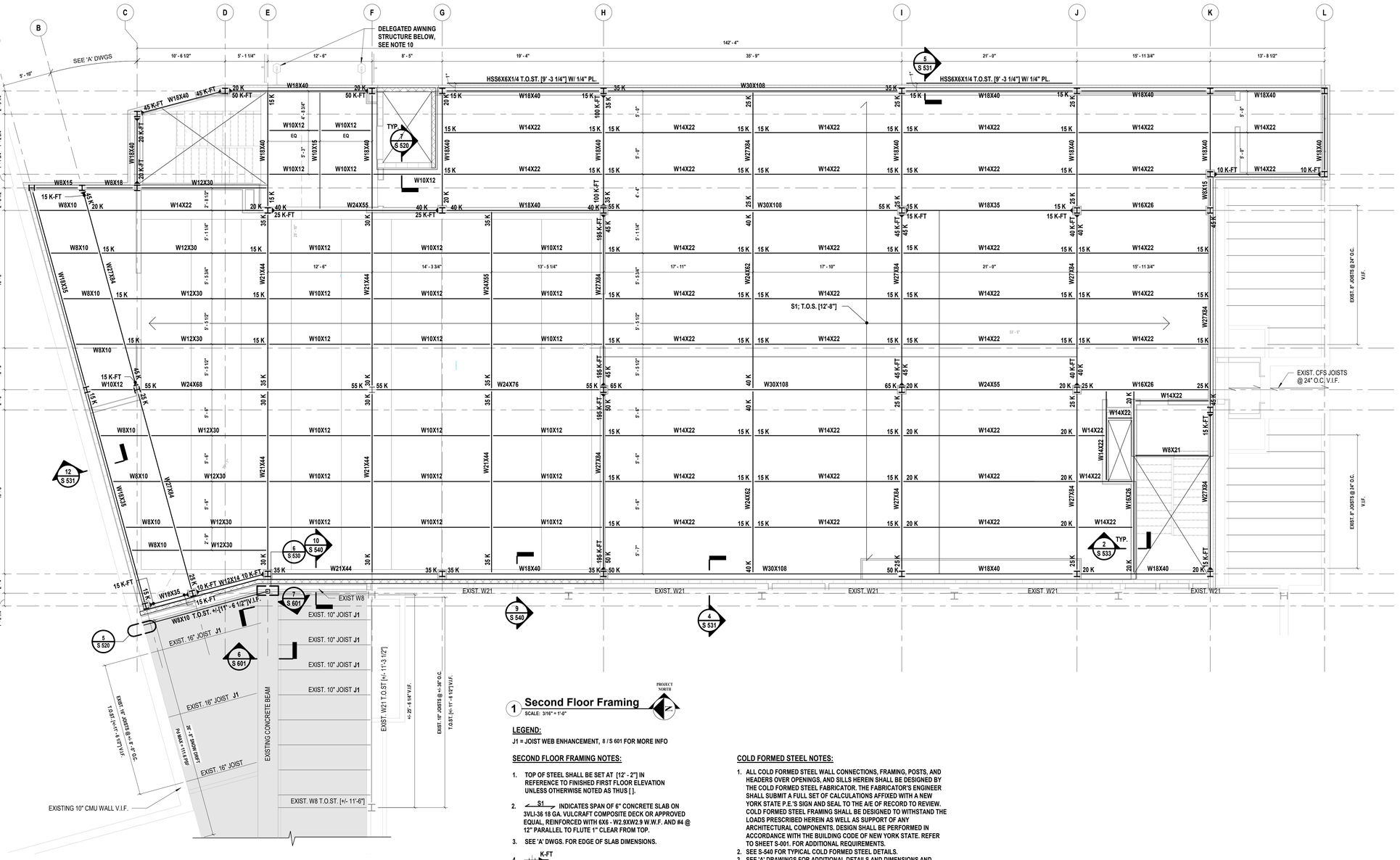


1 Second Floor Framing

SCALE: 3/16" = 1'-0"

LEGEND:

J1 = JOIST WEB ENHANCEMENT, 8 / S 601 FOR MORE INFO

SECOND FLOOR FRAMING NOTES:

1. TOP OF STEEL SHALL BE SET AT [12' - 2"] IN REFERENCE TO FINISHED FIRST FLOOR ELEVATION UNLESS OTHERWISE NOTED AS THUS [ ].
2. S1 INDICATES SPAN OF 6" CONCRETE SLAB ON 3VLI-36 18 GA. VULCRAFT COMPOSITE DECK OR APPROVED EQUAL, REINFORCED WITH 6X6 - W2.9XW2.9 W.W.F. AND #4 @ 12" PARALLEL TO FLUTE 1" CLEAR FROM TOP.
3. SEE 'A' DWGS. FOR EDGE OF SLAB DIMENSIONS.
4. K-FT / K INDICATES BEAM TO COLUMN MOMENT CONNECTION WITH THE NUMBER REPRESENTING THE LRFD MOMENT CAPACITY IN FT-KIPS & SHEAR VALUE IN KIPS.
5. STEEL CONNECTION PIECE DETAILS SHALL BE SUBMITTED WITH CALCULATIONS SIGNED AND SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER. CONNECTION DESIGNER SHALL DESIGN ALL MOMENT CONNECTIONS AND SIMPLE SHEAR CONNECTIONS. WHERE DESIGN SHEAR REACTION IS NOT LISTED ON DRAWINGS, IT SHALL BE DETERMINED BY THE CONNECTION DESIGNER AS THE MAXIMUM REACTION RESULTING FROM THE INDICATED BEAM SECTION BEING FULLY LOADED WITH MAXIMUM ALLOWABLE UNIFORM LOADS AS SPECIFIED IN AISC SPECIFICATION. WHERE AXIAL FORCE IN BEAMS IN NOT LISTED IN DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. ALL CONNECTIONS SHALL BE DESIGNED CONSIDERING AXIAL, SHEAR AND MOMENT FORCES SIMULTANEOUSLY AS REQUIRED BY BUILDING CODE. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL DESIGN LOADING REQUIREMENTS.
6. TOP OF STEEL ELEVATION TO BE SET AT STAIR MIDLANDING, CONTRACTOR TO COORDINATE WITH STAIR MANUFACTURER.
7. REFER TO SPECIFICATIONS FOR SLAB ON METAL DECK ATTACHMENT PATTERN.
8. CONTRACTOR TO COORDINATE THE LOCATION OF THE STAIR LANDING BEAMS WITH THE STAIR MANUFACTURER AND SHOP DRAWINGS.
9. CONTRACTOR TO COORDINATE THE LOCATION OF THE STAIR LANDING BEAMS WITH THE STAIR MANUFACTURER AND SHOP DRAWINGS.
10. AWNING STRUCTURE TO BE FULLY DESIGNED AND DETAILED BY A NEW YORK STATE PROFESSIONAL ENGINEER. AWNING DESIGNER SHALL COORDINATE ALL ATTACHMENT REQUIREMENTS WITH THE COLD FORMED STEEL ENGINEER. AWNING DESIGNER SHALL SUBMIT A FULL SET OF CALCULATIONS & DRAWINGS AFFIXED WITH A NEW YORK STATE P.E.'S SIGN AND SEAL TO A/E OF RECORD TO REVIEW,

COLD FORMED STEEL NOTES:

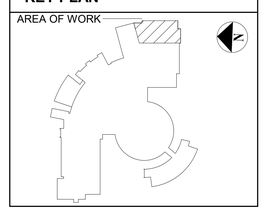
1. ALL COLD FORMED STEEL WALL CONNECTIONS, FRAMING, POSTS, AND HEADERS OVER OPENINGS, AND SILLS HEREIN SHALL BE DESIGNED BY THE COLD FORMED STEEL FABRICATOR. THE FABRICATOR'S ENGINEER SHALL SUBMIT A FULL SET OF CALCULATIONS AFFIXED WITH A NEW YORK STATE P.E.'S SIGN AND SEAL TO THE A/E OF RECORD TO REVIEW. COLD FORMED STEEL FRAMING SHALL BE DESIGNED TO WITHSTAND THE LOADS PRESCRIBED HEREIN AS WELL AS SUPPORT OF ANY ARCHITECTURAL COMPONENTS. DESIGN SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. REFER TO SHEET S-001. FOR ADDITIONAL REQUIREMENTS.
2. SEE S-540 FOR TYPICAL COLD FORMED STEEL DETAILS.
3. SEE 'A' DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS AND WALL COMPOSITIONS.
4. ALL CFS HEADERS SHALL BE 6" TALL MIN.
5. CFS BRIDGING AND BRACING SHALL BE DESIGNED BY THE CFS DELEGATED DESIGNER
6. COLD FORMED STEEL FABRICATOR SHALL COORDINATE WITH AWNING DESIGNER TO ENSURE ATTACHMENT LOCATIONS NEEDED BY AWNING DESIGNER ARE ACCOMODATED.

MASONRY NOTES:

1. ELEVATIONS SHALL BE ESTABLISHED RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"].
   - 1.1 INDICATES CMU WALL (SEE 'A' DWGS FOR SIZE) REINFORCED VERTICALLY WITH #6 BARS SPACED AT A MAXIMUM SPACING OF 24" O.C., TYPICAL, UNLESS OTHERWISE NOTED.
   - 1.2 INDICATES CMU WALL (SEE 'A' DWGS FOR SIZE) REINFORCED VERTICALLY WITH #5 BARS SPACED AT A MAXIMUM SPACING OF 32" O.C., TYPICAL, UNLESS OTHERWISE NOTED.
2. FILL ALL MASONRY CELLS CONTAINING REINFORCEMENT SOLID WITH GROUT, TYPICAL.
3. AT EACH SIDE OF MASONRY OPENINGS, FILL TWO CELLS WITH GROUT AND (1) #5 MIN. PER CELL VERTICALLY UNLESS NOTED OTHERWISE. AT CORNERS OF MASONRY WALLS, CORNER CELL AND ONE ADJACENT CELL TO EACH SIDE OF CORNER (3 TOTAL) ARE TO BE FILLED WITH GROUT AND (1) #5 MIN. PER CELL FROM FOOTING INTO UPPERMOST BOND BEAM UNLESS NOTED OTHERWISE. FOR WALLS WITH LARGER REBAR INDICATED IN SCHEDULE USE THE LARGER REBAR.
4. REFER TO 'A' DWGS. AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT OUTLINED HERE.
5. ALL VERTICAL REINFORCEMENT INTERRUPTED BY STRUCTURAL STEEL SHALL BE WELDED TO TOP OF STEEL MEMBERS, TYPICAL.
6. COORDINATE PLACEMENT OF VERTICAL WALL DOWELS EMBEDDED INTO FOUNDATION WALLS AND FLOOR SLABS WITH CELLS OF MASONRY WALL. DOWEL SPACING TO MATCH SPACING OF VERTICAL REINFORCEMENT IN WALLS, TYPICAL.
7. REFER TO 'A' DWGS. FOR LOCATIONS AND BRACING REQUIREMENTS OF INTERIOR MASONRY WALLS.
8. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING IN ALL WALLS AT 16" O.C. , MAXIMUM, U.O.N.
9. BOND BEAMS REINFORCED WITH (1) #5 BAR, CONTINUOUS, SHALL BE PLACED AT EACH FLOOR LEVEL AND AT TOP OF WALL, U.O.N.

KEY PLAN

AREA OF WORK



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CONSULTANTS:

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4/30/2027
Exp. Date

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NY PROFESSIONAL ENGINEER Lic. No. 100515

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PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

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Fitness Center Addition at Harrison High School

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SECOND FLOOR FRAMING PLAN

DRAWING No.

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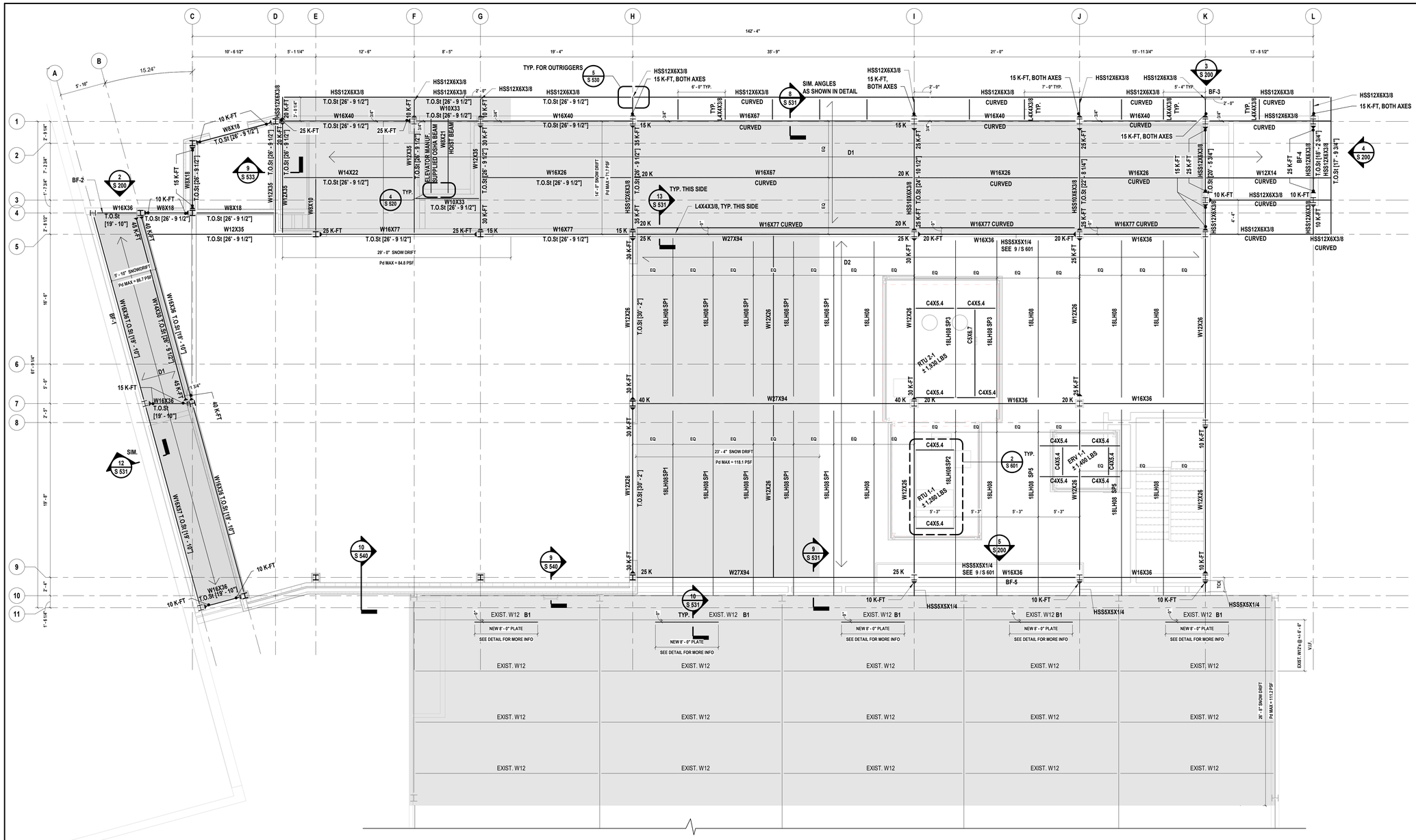
C
D
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L
142' - 4"
TYP. FOR OUTRIGGERS
5 S 530
HSS12X6X3/8
15 K-FT, BOTH AXES
SIM. ANGLES AS SHOWN IN DETAIL
9 S 531
HSS12X6X3/8
T.O.St [26' - 9 1/2"]
W16X40
W16X67
CURVED
W16X26
W14X22
W12X35
W8X18
W8X10
W10X33
W16X77
W27X94
W16X36
W12X26
W12X14
W16X14
W8X24
W10X60
W16X100
W14X90
W14X82
W12X65
W10X54
W8X35
W8X31
W6X25
W6X20
W6X15
W6X9
W6X8.5
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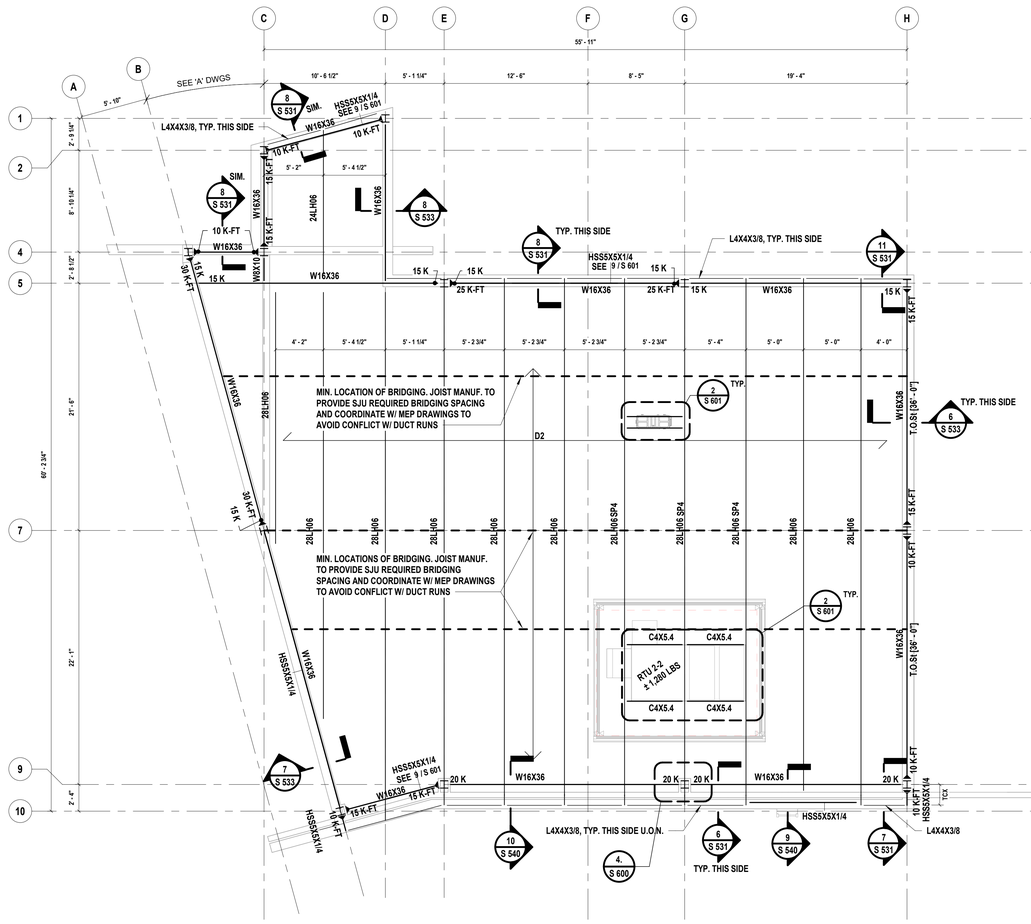


1 High Roof Framing Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

LEGEND:

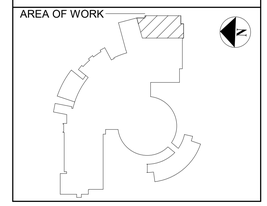
-TCX = JOIST TOP CHORD EXTENSION
-T.O.ST. = TOP OF STEEL

HIGH ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL SHALL BE SET AT [35' - 7"] ABOVE FINISHED FIRST FLOOR ELEVATION UNLESS OTHERWISE NOTED AS THUS [ ].
2. D2 INDICATES SPAN OF 1.5B-36 20GA. METAL DECK AS MANUFACTURED BY VULCRAFT NUCOR OR APPROVED EQUAL.
3. INSTALL BRIDGING FOR BAR JOISTS AS PER S.J.I. REQUIREMENTS. INSTALL BOTTOM CHORD EXTENSIONS AT ALL COLUMNS.
4. INDICATES BEAM TO COLUMN MOMENT CONNECTION WITH THE NUMBER REPRESENTING THE L.R.F.D. MOMENT CAPACTY IN FT-KIPS.
5. STEEL CONNECTION PIECE DETAILS SHALL BE SUBMITTED WITH CALCULATIONS SIGNED AND SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER. CONNECTION DESIGNER SHALL DESIGN ALL MOMENT CONNECTIONS AND SIMPLE SHEAR CONNECTIONS. WHERE DESIGN SHEAR REACTION IS NOT LISTED ON DRAWINGS, IT SHALL BE DETERMINED BY THE CONNECTION DESIGNER AS THE MAXIMUM REACTION RESULTING FROM THE INDICATED BEAM SECTION BEING FULLY LOADED WITH MAXIMUM ALLOWABLE UNIFORM LOADS AS SPECIFIED IN AISC SPECIFICATION. WHERE AXIAL FORCE IN BEAMS IN NOT LISTED IN DRAWINGS, IT SHALL BE TAKEN AS 15 KIPS LRFD. ALL CONNECTIONS SHALL BE DESIGNED CONSIDERING AXIAL, SHEAR AND MOMENT FORCES SIMULTANEOUSLY AS REQUIRED BY BUILDING CODE. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL DESIGN LOADING REQUIREMENTS.
6. ALL LIGHT GAUGE EXTERIOR STUD WALLS, BOX HEADERS, CANOPY CONNECTION POINTS, AND SILLS SHALL BE DESIGNED BY THE COLD FORMED STEEL FABRICATOR. THE FABRICATOR'S ENGINEER SHALL SUBMIT A FULL SET OF CALCULATIONS AFFIXED WITH A NEW YORK STATE P.E.'S SIGN & SEAL TO THE A/E OF RECORD TO REVIEW. DESIGN OF COLD-FORMED STEEL FRAMING SHALL INCLUDE CONSIDERATION FOR ALL APPLICABLE LOADS AS SHOWN ON SHEET S 100.00 AND SHALL BE IN CONFORMANCE WITH THE BUILDING CODE OF NEW YORK STATE. EXTERIOR CLADDING SYSTEMS AND ANCILLARY STRUCTURES INCLUDING CANOPIES SUPPORTED BY THE COLD FORMED STEEL SYSTEM SHALL BE CONSIDERED ACCORDINGLY. REFER TO SPECIFICATION 054000 FOR ADDITIONAL REQUIREMENT
7. SEE S 601 FOR SPECIAL JOIST LOADING REQUIREMENTS.
8. ELEVATIONS FOR STEEL FRAMING AND COLUMN SUPPORTING CURVED JOISTS SHALL BE COORDINATED WITH THE JOIST MANUFACTURERS REQUIRED SEATS FOR ALL CURVED JOISTS.
9. JOIST MANUFACTURER IS RESPONSIBLE FOR DESIGNING JOIST EXTENSIONS FOR THE GRAVITY AND WIND LOADS PROVIDED ON THE GENERAL NOTES.

KEY PLAN

AREA OF WORK



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HIGH ROOF FRAMING PLAN

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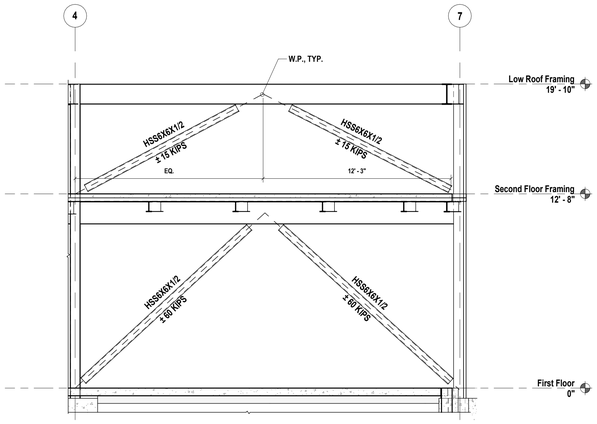
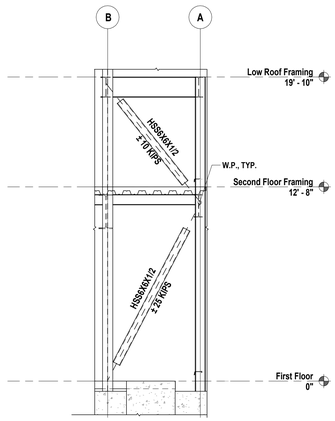
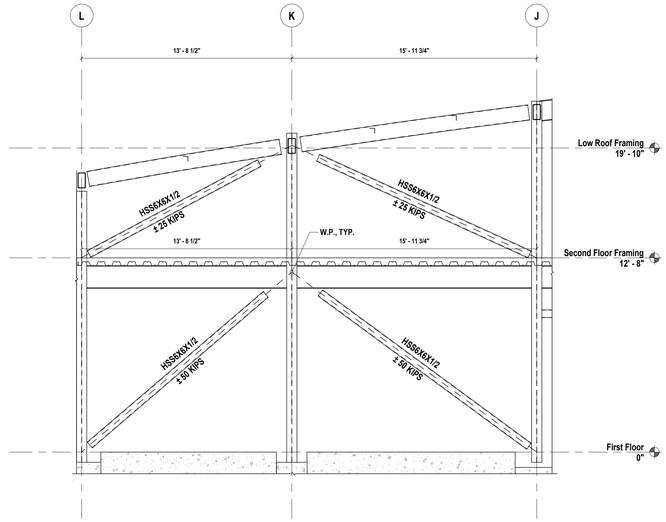


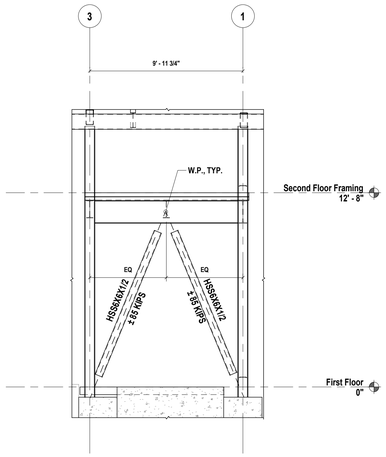
1 **Brace Frame BF-1**
SCALE: 1/4" = 1'-0"



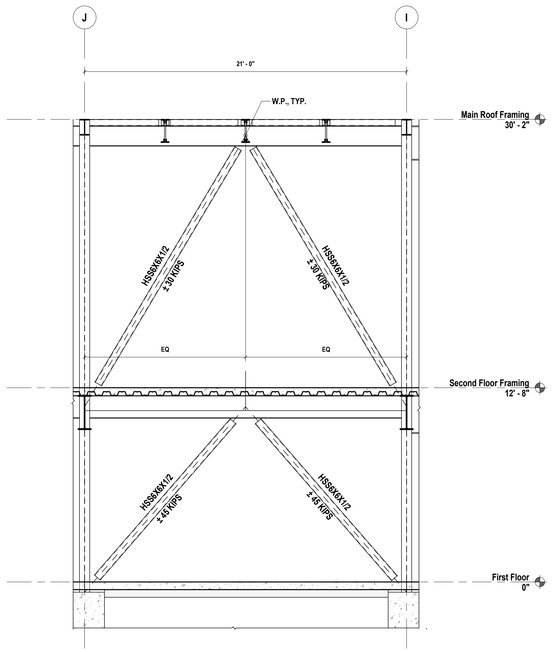
2 **Brace Frame BF-2**
SCALE: 1/4" = 1'-0"



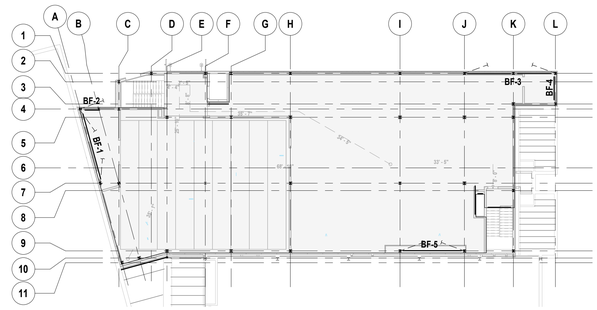
3 **Brace Frame BF-3**
SCALE: 1/4" = 1'-0"



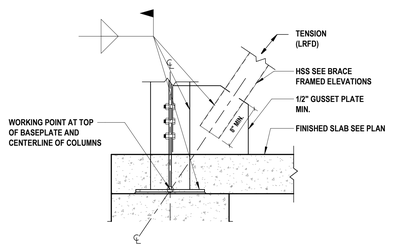
4 **Brace Frame BF-4**
SCALE: 1/4" = 1'-0"



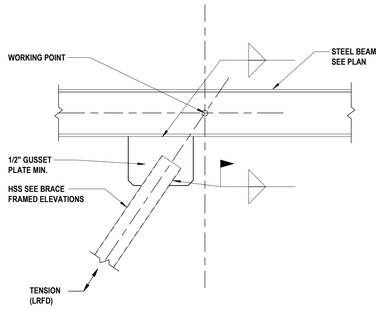
5 **Brace Frame BF-5**
SCALE: 1/4" = 1'-0"



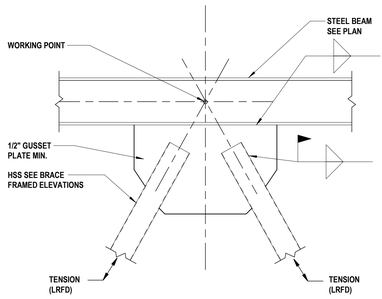
6 **Brace Frame Key Plan**
SCALE: 1" = 20'-0"



7 **Typical Bracing Connection at Base Detail**
SCALE: NTS



8 **Typical Beam Connection Detail**
SCALE: NTS



9 **Typical Chevron Bracing Connection Detail**
SCALE: NTS

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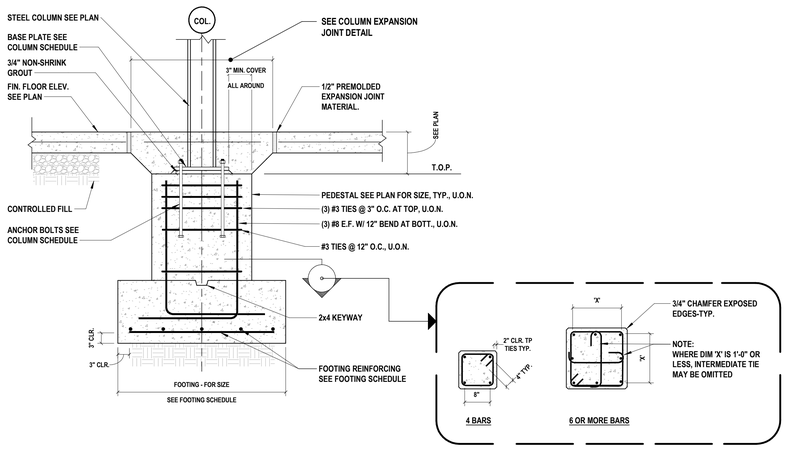
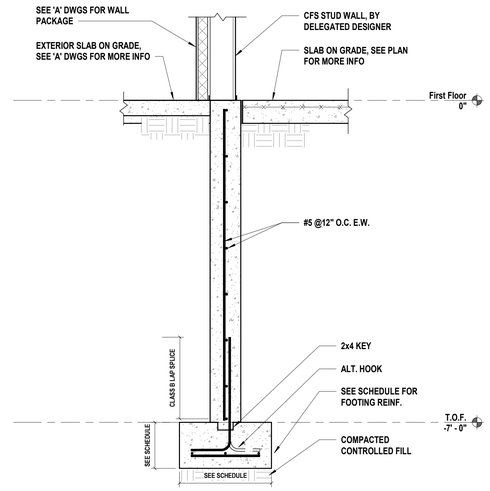
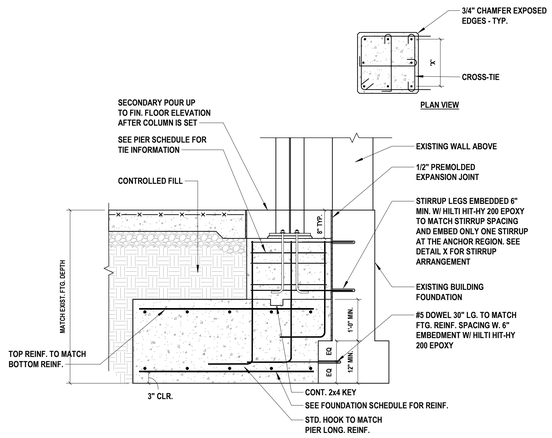


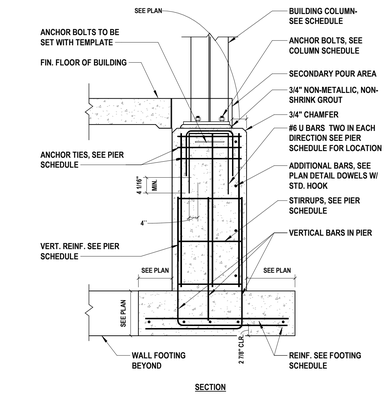
1 Typical Interior Pier and Footing Detail
SCALE: NTS



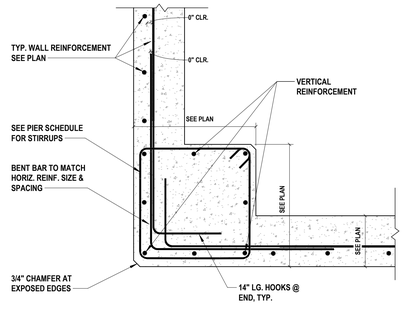
2 Typical Exterior Foundation Wall
SCALE: N.T.S.



3 Typical Section at Column Footing Adjacent to Existing Building
SCALE: NTS

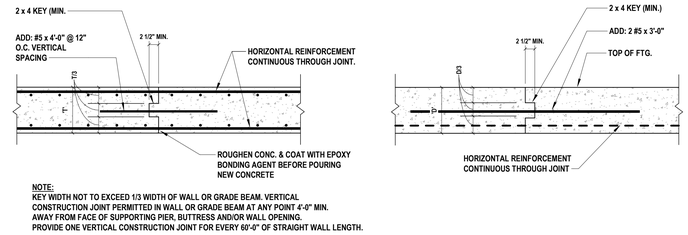


4 Typical Concrete Pier/Footing Section Detail
SCALE: NTS



NOTE
; 1. CONDITION AT SINGLE LAYER OF WALL REINFORCEMENT SHOWN. DOUBLE LAYER REINFORCEMENT CONDITION SIMILAR 3'-0" X 3'-0" LONG BENT BARS REQUIRED AT OUTSIDE FACE ONLY

5 Corner Pier/Foundation Wall Intersection
SCALE: NTS



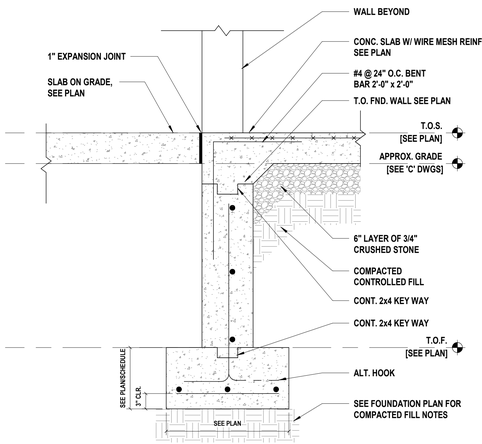
NOTE:
KEY WIDTH NOT TO EXCEED 1/3 WIDTH OF WALL OR GRADE BEAM. VERTICAL CONSTRUCTION JOINT PERMITTED IN WALL OR GRADE BEAM AT ANY POINT 4'-0" MIN. AWAY FROM FACE OF SUPPORTING PIER, BUTTRESS AND/OR WALL OPENING. PROVIDE ONE VERTICAL CONSTRUCTION JOINT FOR EVERY 60'-0" OF STRAIGHT WALL LENGTH.

VERTICAL CONSTRUCTION JOINT IN WALL OR GRADE BEAM

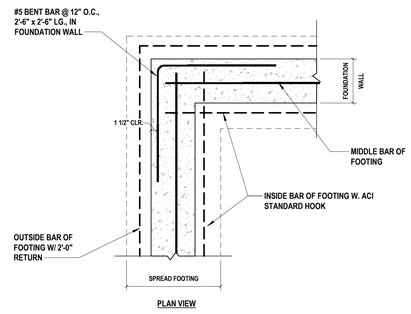
NOTE:
SUBMIT CONSTRUCTION JOINT LAYOUT FOR ALL CONCRETE STRUCTURES FOR ENGINEER'S REVIEW

VERTICAL CONSTRUCTION JOINT IN CONTINUOUS FOOTING

6 Typical Wall/Grade Beam Construction Joint Detail
SCALE: NTS | H2M: 03A-4/1

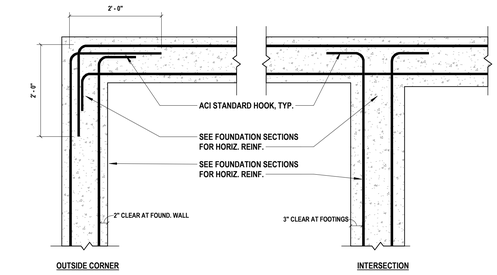


7 Typical Haunched Slab on Grade at Doorway
SCALE: NTS



NOTES:
1. VERTICAL WALL REINFORCEMENT NOT SHOWN FOR CLARITY

8 Typical Corner of Building Foundation
SCALE: NTS



9 Typical Foundation Wall or Footing Horizontal Reinforcement Detail
SCALE:NTS

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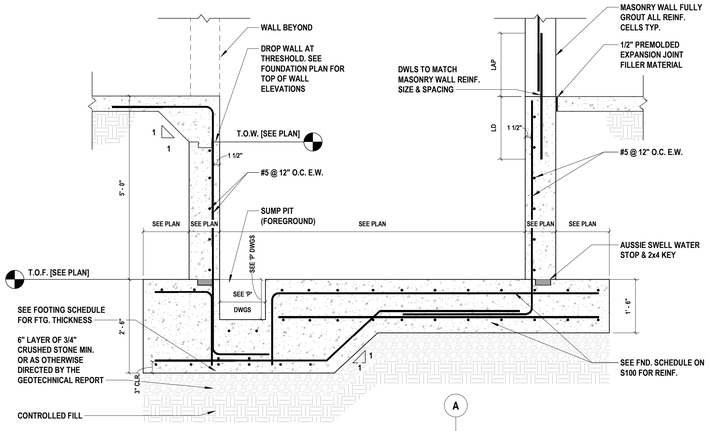
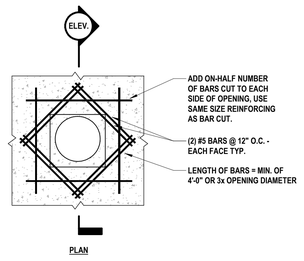
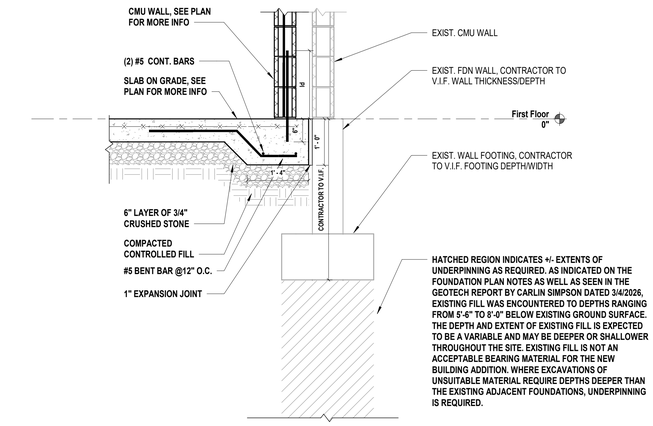


1 Elevator Pit with Sump Pit
SCALE: NTS



2 Typical Pipe Penetration at Wall/Slab
SCALE: NTS



3 Typical Haunched Slab Detail Adjacent to Existing Building
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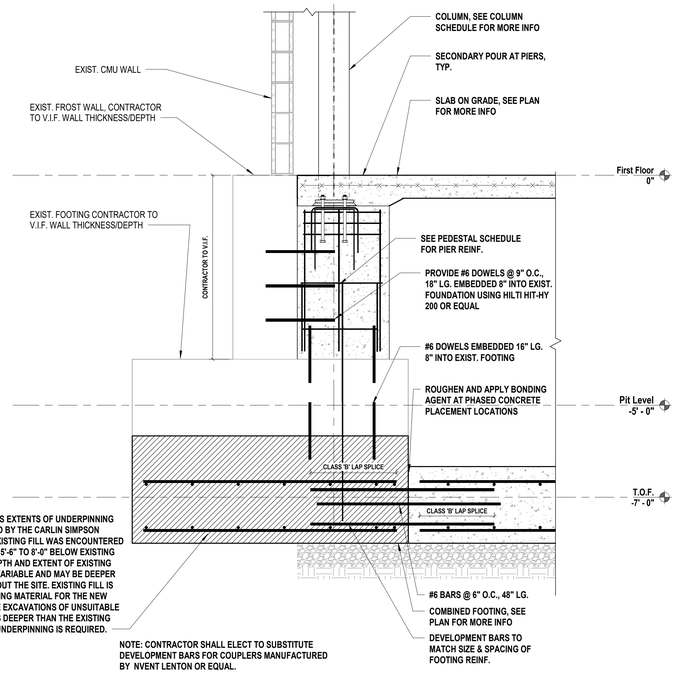
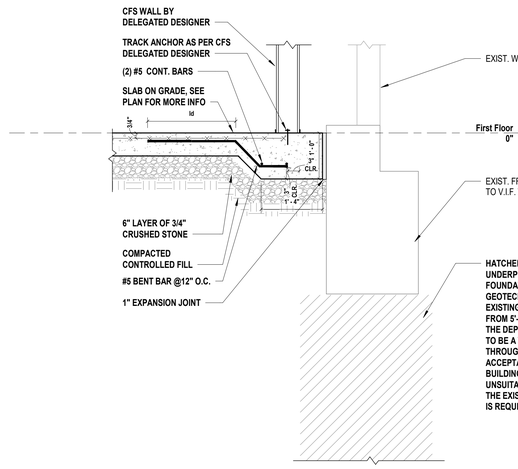


4 Combined Footing at West Wall Adjacent to Existing Spread Footing
SCALE: N.T.S.



5 Foundation Wall Section at East Wall Adjacent to Existing Foundation
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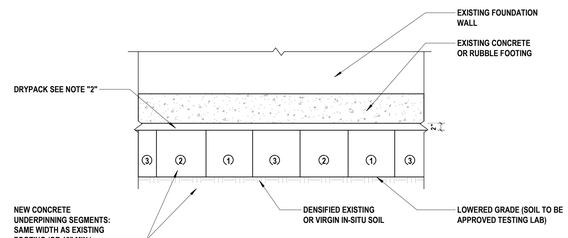
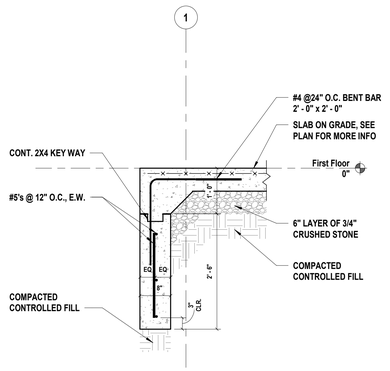
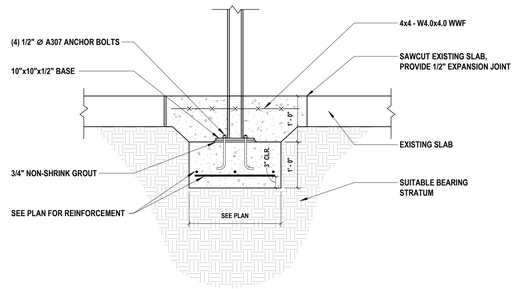


6 Underpinning Detail
SCALE: NTS



7 Frost Wall at Exterior Slab
SCALE: N.T.S.



8 Footing Detail at Existing Slab
SCALE: N.T.S.

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4/30/2027
Exp. Date

DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER Lic. No. 100515

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D. SLOANE	D. SLOANE	M. HORNBERGER J. SCHEINER	D. AIELLO

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY · ACCESS · HARRISON CENTRAL SCHOOL DISTRICT · ADAPTABILITY · RIGOR

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FOUNDATION DETAILS

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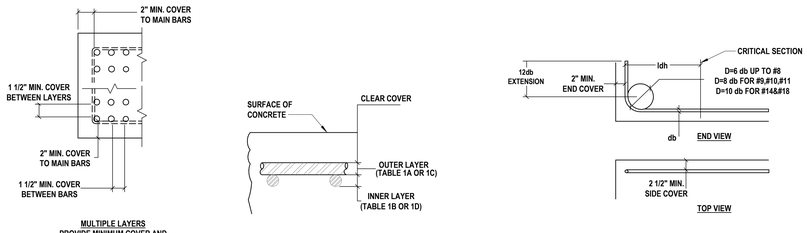


MULTIPLE LAYERS
PROVIDE MINIMUM COVER AND CLEARANCES SHOWN USE TABLE 1.A FOR LAP SPLICE LENGTHS.

TENSION DEVELOPMENT AND LAP SPLICE LENGHTS TABLE #1

BAR SIZE	LAP CLASS	CONC. 3000 f'c (IN PSI)				CONC. 4000 f'c (IN PSI)				CONC. 5000 f'c (IN PSI)			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	A	22	33	17	25	19	28	15	22	17	25	13	20
	B	28	42	22	33	25	37	19	28	22	33	17	25
#4	A	29	43	22	33	25	37	19	29	23	34	17	26
	B	38	56	29	43	33	49	25	37	29	44	23	34
#5	A	36	54	28	42	31	47	24	36	28	42	22	32
	B	47	70	36	54	41	61	31	47	36	54	28	42
#6	A	43	65	33	50	37	56	29	43	34	50	26	39
	B	56	84	43	65	49	73	37	56	44	65	34	50
#7	A	63	94	48	72	54	81	42	63	49	73	38	56
	B	81	122	63	94	71	106	54	81	63	95	49	73
#8	A	72	107	55	83	62	93	48	72	56	83	43	64
	B	93	139	72	107	81	121	62	93	72	108	56	83
#9	A	81	121	62	93	70	105	54	81	63	94	48	72
	B	105	157	81	121	91	136	70	105	81	121	63	94
#10	A	89	134	69	103	78	116	60	89	69	104	54	80
	B	116	174	89	134	101	151	78	116	90	135	69	104
#11	A	98	147	76	113	85	128	66	98	76	114	59	88
	B	128	191	98	147	111	166	85	128	99	148	76	114
#14	A	125	187	96	144	108	162	83	125	97	145	75	112
	B	162	243	125	187	141	211	108	162	126	189	97	145
#18	A	161	241	124	185	139	209	107	161	125	187	96	144
	B	209	312	161	241	181	271	139	209	162	242	125	187

NOTE:
1. ALL REBARS LARGER THAN #11 SHALL HAVE A MINIMUM YIELD STRESS OF fy= 75 ksi AND SHALL BE MECHANICALLY TENSION/COMPRESSION SPLICED.

NOTE FOR TENSION LAP SPLICES/TENSION DEVELOPMENT LENGTHS
1. REINFORCEMENT IS UNCOATED, WITH Fy =60,000 PSI.
2. CONCRETE IS NORMAL WEIGHT (122-150#/C.F).
3. FOR "TOP" BAR SPLICE LENGTH ("TOP IS DEFINED BY ACI 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR), TABULATED LENGTHS MUST BE MULTIPLIED BY 1.3.
4. LENGTHS TABULATED MUST BE MULTIPLIED BY THE FOLLOWING MODIFICATION FACTORS:
   a. LIGHTWEIGHT CONCRETE 1.3
   b. EPOXY COATED BARS:
      1. BARS WITH COVER <3db, OR WITH CLEAR SPACING <6db..1.5 FOR BOTTOM & VERTICAL BARS, 1.3 FOR TOP BARS*
      2. ALL OTHER CONDITIONS....1.2
5. WHERE TENSION DEVELOPMENT LENGTH (Ld) IS REQUIRED ON PLANS OR IN DETAILS, SEE TENSION DEVELOPMENT LENGTHS TABLES.
6. CLASS A LAP SPLICE LENGTHS ARE EQUAL TO TENSION DEVELOPMENT LENGTHS. SEE TABLES FOR TENSION DEVELOPMENT LENGTHS (Ld). APPLY APPROPRIATE MODIFICATION FACTORS TO CLASS A SPLICE LENGTHS.

TABLE #2
TENSION DEVELOPMENT LENGTH FOR STANDARD END HOOKS (Ld) (INCHES)

BAR SIZE	CONCRETE STRENGTH (PSI)			
	3000	4000	5000	6000
#3	9	8	7	6
#4	11	10	9	8
#5	14	12	11	10
#6	17	15	13	12
#7	20	17	15	14
#8	22	19	17	16
#9	25	22	20	18
#10	28	24	22	20
#11	31	27	24	22
#14	39	34	30	28
#18	50	43	39	35

NOTE:
1. TABLE #2 CONFORMS TO ACI 318-19. TABULATED VALUES ARE BASED UPON ACI 12.5.2, ASSUMING GRADE 60 REINFORCEMENT AND NORMAL WEIGHT CONCRETE.
2. PER ACI 12.5.3 A), FOR #11 AND SMALLER BARS, IF COVER TO BAR IS 2-1/2 INCHES OR MORE, AND FOR 90 DEGREE HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES, A MODIFICATION FACTOR OF 0.7 MAYBE APPLIED. MINIMUM idh SHALL NOT BE LESS THAN 8db NOR 6 INCHES.

TABLE #3
DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
(LENGTH IN INCHES)

BAR SIZE	fy = 60,000 PSI			fy = 75,000 PSI			fy = 80,000 PSI		
	CONC. f'c (IN PSI)			CONC. f'c (IN PSI)			CONC. f'c (IN PSI)		
	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE	3,000	4,000	5,000 OR MORE
#3	9	8	8	11	9	9	11	10	9
#4	11	10	9	14	12	12	15	13	12
#5	14	12	12	18	15	14	19	16	15
#6	17	15	14	21	18	17	22	19	18
#7	20	17	16	24	21	20	26	23	21
#8	22	19	18	28	24	23	30	26	24
#9	25	22	21	31	27	26	33	29	27
#10	28	24	23	35	30	29	37	32	30
#11	31	27	25	38	33	31	41	35	33
#14	39	34	32	48	42	40	52	45	42
#18	50	43	41	62	54	51	66	57	54

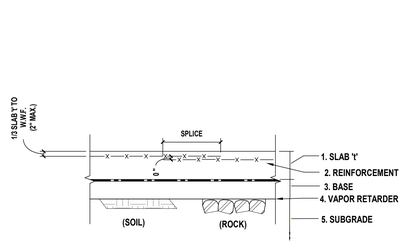
NOTE:
TABLE #3 APPLIES FOR NORMAL WEIGHT CONCRETE WITH f'c = 3,000 PSI OR GREATER.

TABLE #4
COMPRESSION LAP SPLICES
(LENGTH IN INCHES)

BAR SIZE	GRADE OF REINFORCEMENT		
	60 KSI (30 DIA.)	75 KSI (44 DIA.)	80 KSI (48 DIA.)
#3	12	17	18
#4	15	22	24
#5	19	28	30
#6	23	33	36
#7	27	39	42
#8	30	44	48
#9	34	49	54
#10	38	55	60
#11	42	60	66
#14 AND #18	1.LAP SPLICES ARE NOT PERMITTED. USE MECHANICAL CONNECTIONS OR WELD SPLICES FOR #14 AND #18, PER ACI 318 (25.5.5.2). 2.LAP SPLICES OF #14 AND #18 BARS TO #11 AND SMALLER BARS ARE PERMITTED PER ACI 318 (25.5.5.2)		
3. FOR BARS OF DIFFERENT SIZE, USE LARGER OF SPLICE LENGTH OF SMALLER BAR (TABLE # 4) OR DEVELOPMENT LENGTH OF LARGER BAR (FROM TABLE #3) PER ACI 318 (25.5.5.3)			

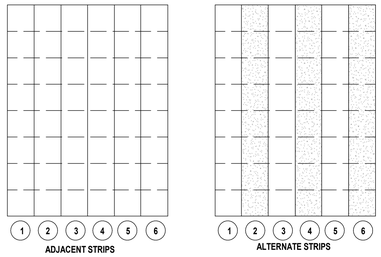
NOTE:
1. TABLE #4 CONFORMS TO ACI 318-19. TABULATED VALUES ARE BASED UPON ACI 25.5.5.1, ASSUMING GRADE 60 REINFORCEMENT AND NORMAL WEIGHT CONCRETE.
2. PER ACI 25.5.5.1 A), FOR #11 AND SMALLER BARS, IF COVER TO BARS IS 2 1/2 INCHES OR MORE, AND FOR 90 DEGREE HOOK WITH COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES, A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED. MINIMUM idh SHALL
   SHALL NOT BE LESS THAN 8db NOR 6 INCHES.

1 Rebar Development Length
SCALE: N.T.S.



TYPICAL DETAIL- SLAB ON GROUND

NOTE:
1. SLAB THICKNESS NOTED ON PLANS.
2. REINFORCEMENT: SEE PLAN
3. BASE = SEE PLAN NOTES, SPECS AND REFER TO DIRECTION OF GEOTECHNICAL REPORT
4. VAPOR RETARDER (VAPOR "BARRIER"): SEE 'A' DWGS.
5. SUBGRADE: COMPACTED STRUCTURAL FILL, BACKFILL OR UNDISTURBED NATIVE SOIL.
6. PER GEOTECHNICAL REPORT CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL UNSUITABLE BEARING MATERIALS PER SUBGRADE INSPECTIONS.

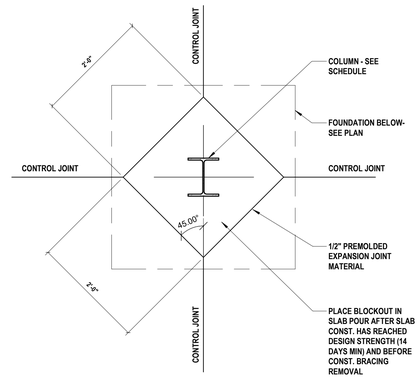


SUGGESTED SEQUENCE OF CASTING STRIPS

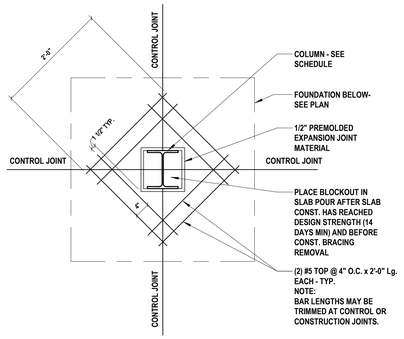
SLAB ON GROUND NOTES:
1. SLAB ON GROUND SHALL BE PLACED IN STRIPS, AS SHOWN IN "SUGGESTED SEQUENCE OF CASTING STRIPS".
2. CONTROL JOINTS SHALL BE SAWCUT AS SOON CONCRETE IS HARD ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE, AND BEFORE THE CONCRETE STARTS TO COOL. TYPICALLY JOINTS SHOULD BE CUT 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED, DEPENDING UPON WEATHER AND JOB CONDITIONS.
3. SPACING OF SAWCUT CONTROL JOINTS (IN FEET) TO BE APPROXIMATELY THREE TIMES THE SLAB THICKNESS IN INCHES, WITH A MAXIMUM OF TWENTY (20) FEET.
4. A MAXIMUM RATIO OF 1.5 SHALL BE MAINTAINED BETWEEN LONG AND SHORT DIMENSIONS OF PANELS FORMED BY CONSTRUCTION AND CONTROL JOINTS.

LEGEND:
- STRIPS CAST FIRST
- INFILL STRIPS
- FORMED JOINTS
- SAWCUT JOINTS

2 Typical Slab on Grade Detail
SCALE: NTS

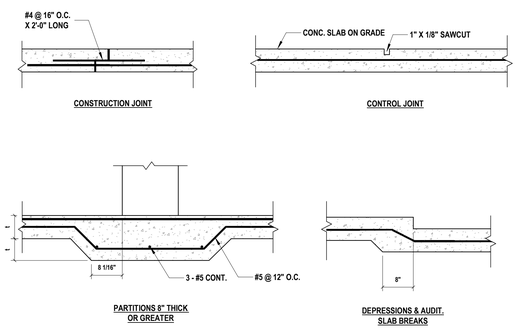


DIAMOND BLOCKOUT AROUND COLUMN

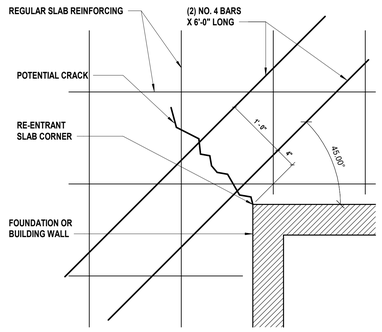


SQUARE BLOCKOUT TIGHT TO COLUMN

3 Typical Column Expansion Joint Details
SCALE: NTS

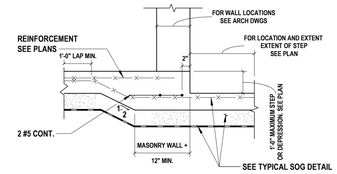


4 Typical Slab on Grade Detail
SCALE: NTS



NOTE: THIS DETAIL IS APPLICABLE TO TRENCH DRAIN ENDS TOO

5 Typical Slab Re-Entrant Corner Reinforcement
SCALE:N.T.S.



6 Slab on Grade Step Under 1'-0"
SCALE: NTS

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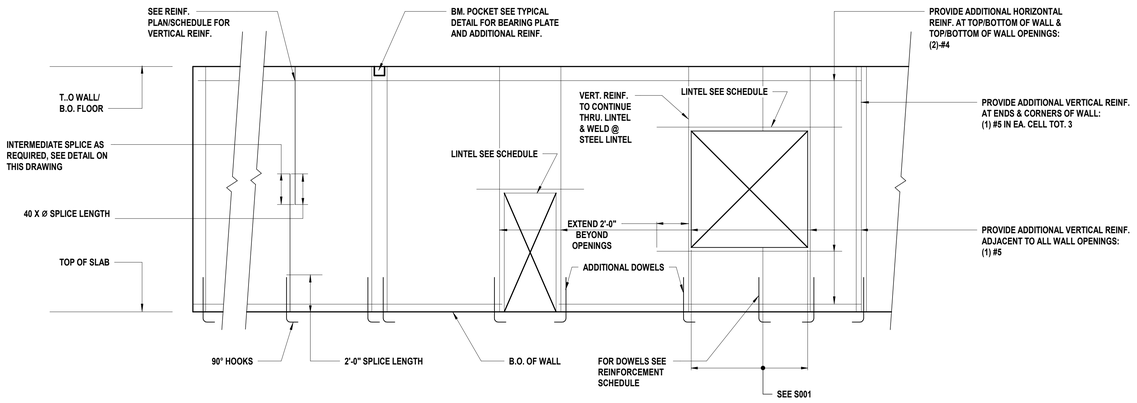
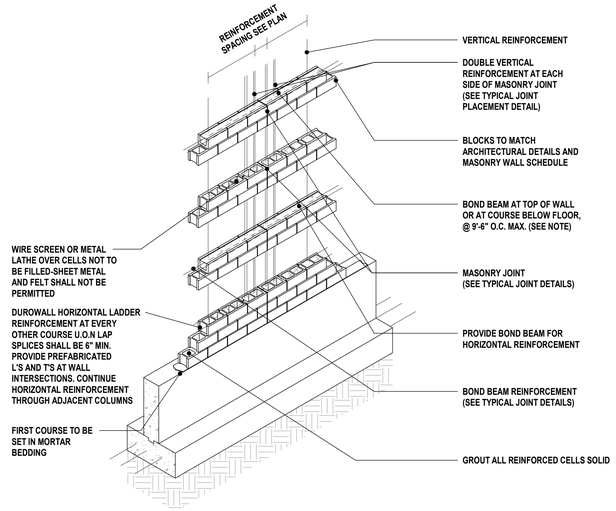


WALL REINFORCEMENT ELEVATION NOTES:

1. ABOVE DETAIL APPLIES TO ALL MASONRY (C.M.U.) WALLS
2. DETAIL DOES NOT SHOW GENERAL REINFORCEMENT SEE PLANS & SCHEDULES FOR REINFORCEMENT SIZE AND SPACING.
3. DETAIL DOES NOT SHOW BOND BEAM, DUROWALL, ETC. FOR CLARITY.
4. FOR C.M.U. MASONRY NOTES SEE S001

1 Typical CMU Wall Elevation Detail

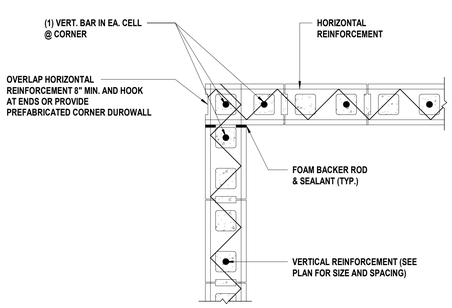
SCALENTS



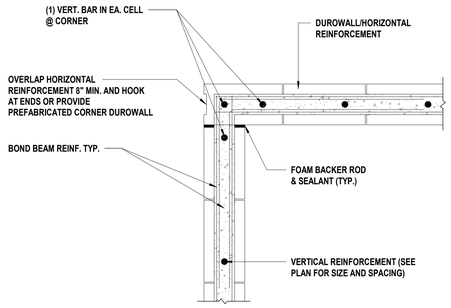
NOTE: IF FLOOR HEIGHT EXCEEDS 9'-6", PROVIDE A BOND BEAM AT THE MID HEIGHT OF THE WALL

2 Typical CMU Wall Bond Beam Elevation Detail

SCALE: 3/16" = 1'-0"



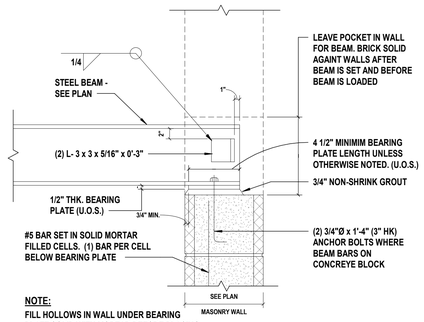
AT CMU BLOCKS



AT CMU BOND BEAMS

3 Typical CMU Corner Reinforcement Detail

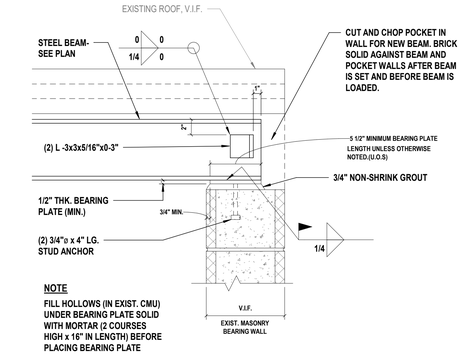
SCALE: 1" = 1'-0"



NOTE:
FILL HOLLOWS IN WALL UNDER BEARING PLATE SOLID WITH MORTAR BEFORE PLACING BEARING PLATE.

4 Typical Beam Bearing on CMU Wall

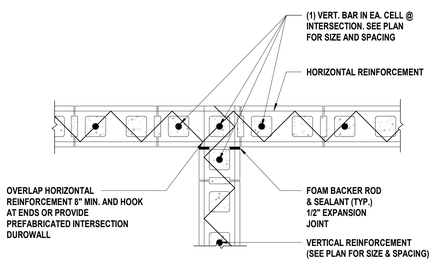
SCALE:N.T.S.



NOTE
FILL HOLLOWS (IN EXIST. CMU) UNDER BEARING PLATE SOLID WITH MORTAR (2 COURSES HIGH x 16" IN LENGTH) BEFORE PLACING BEARING PLATE

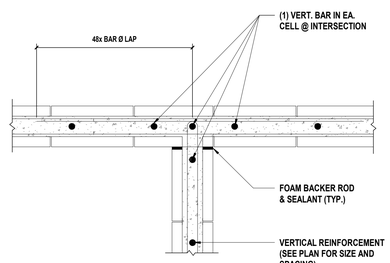
5 Beam Pocket at Existing CMU Wall

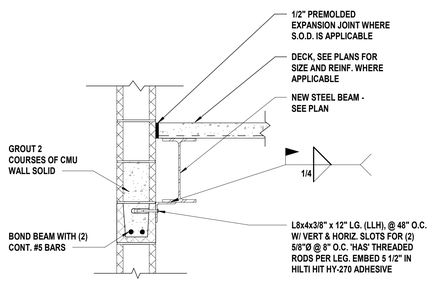
SCALE: N.T.S.



6 Typical CMU Intersection Reinforcement Detail

SCALE: 1" = 1'-0"





7 Elevator CMU Wall Bracing Detail

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CONSULTANTS:

MARK	DATE	DESCRIPTION

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

4/30/2027
Exp. Date

DANIEL J. AIELLO, P.E.
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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
D. SLOANE	D. SLOANE	M. HORNBERGER J. SCHEINER	D. AIELLO

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

CONTRACT

CONTRACT G GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

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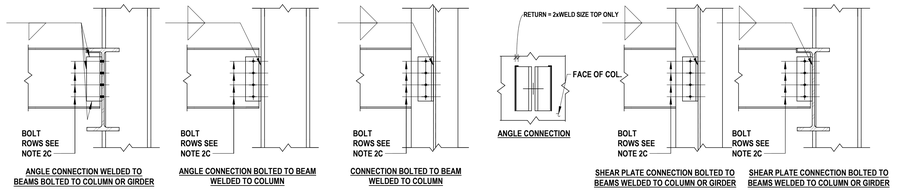


ANGLE CONNECTION WELDED TO BEAMS BOLTED TO COLUMN OR GIRDER

ANGLE CONNECTION BOLTED TO BEAM WELDED TO COLUMN

CONNECTION BOLTED TO BEAM WELDED TO COLUMN

SHEAR PLATE CONNECTION BOLTED TO BEAMS WELDED TO COLUMN OR GIRDER

SHEAR PLATE CONNECTION BOLTED TO BEAMS WELDED TO COLUMN OR GIRDER

SHEAR PLATE

DOUBLE ANGLE CONNECTIONS TO BEAM OR COLUMN NOTE :
CONNECTION SIMILAR WHEN CONNECTION TO GIRDER OR COLUMN (SHOWN AS DASHED LINE)

SHEAR PLATE CONNECTIONS TO BEAM OR COLUMN NOTE :
CONNECTION SIMILAR WHEN CONNECTING TO GIRDER OR COLUMN (SHOWN AS DASHED LINE)

NOTE: THESE CONNECTIONS MAY BE USED AT TYPE B MOMENT CONNECTIONS. FOR TYPE A MOMENT CONNECTIONS, SEE TYPE A SHEAR CONNECTIONS

DESIGN OF SIMPLE SHEAR CONNECTIONS - REQUIREMENTS

1. WHERE BEAM END REACTIONS ARE SHOWN ON THE DRAWINGS, SIMPLE SHEAR CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS SHOWN. BUT IN NO CASE SHALL THE NUMBER OF BOLTS BE LESS THAN GIVEN IN TABLE A OR THE REACTION LESS THAN SHOWN ON TABLE
2. WHERE BEAM END REACTIONS ARE NOT SHOWN ON THE DRAWINGS, THE GREATEST OF THE THREE FOLLOWING CRITERIA SHALL BE USED IN DESIGN OF SIMPLE SHEAR CONNECTIONS:
   A. FOR COMPOSITE BEAMS, REACTION FROM AISC LRFD "MAXIMUM TOTAL UNIFORM LOAD "TABLES MULTIPLIED BY 2.0.
   B. FOR NON-COMPOSITE BEAMS, REACTIONS FROM UNIFORM LOAD TABLES CITED IN 2.a, MULTIPLIED BY 1.3.
   C. FOR MINIMUM NUMBER OF BOLTS SEE TABLE A, FOR MIN. REACTION SEE TABLE B.
3. IN ADDITION TO THE VERTICAL SHEAR BEAM TO BEAM END CONNECTIONS SHALL BE DESIGNED FOR THE MOST CRITICAL OF THE FOLLOWING:
   A. AXIAL LOAD SHOWN ON DRAWINGS (±P) CONCOMITANT WITH THE VERTICAL SHEAR.
   B. A DESIGN TENSION STRENGTH EQUAL TO THE LARGER OF THE PROVIDED SHEAR LOAD AT EITHER END BUT NOT LESS THAN 15K (LRFD), U.O.N. THE CONNECTION DESIGN FOR THIS REQUIREMENT SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF N.Y. CITY BUILDING CODE SECTIONS BC 2213.2 ITEM
4. IN ADDITION TO THE VERTICAL SHEAR BEAM TO COLUMNS END CONNECTION SHALL BE DESIGNED FOR THE MOST CRITICAL OF THE FOLLOWING:
   A. AXIAL LOAD SHOWN ON DRAWINGS (±P) CONCOMITANT WITH THE VERTICAL SHEAR.
   B. A DESIGN TENSION STRENGTH EQUAL TO THE LARGER OF THE PROVIDED SHEAR LOAD AT EITHER END BUT NOT LESS THAN 15K (LRFD), U.O.N. THE CONNECTION DESIGN FOR THIS REQUIREMENT SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF N.Y. CITY BUILDING CODE SECTIONS BC 2213.2 ITEM
   C. AN AXIAL LOAD EQUAL TO 0.02 OF COLUMN LOAD (FROM COLUMN SCHEDULE). THE CONNECTION DESIGN FOR THIS REQUIREMENT SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF NYC BUILDING CODE SECTION BC 2213.2 ITEM 4.
5. MINIMUM BOLT DIAMETER SHALL BE 7/8 INCH (CONTRACTOR MAY USE LARGER DIAMETER BOLTS AT HIS OPTION).
6. BOLT TYPE SHALL BE ASTM A 325 (CONTRACTOR MAY USE A490 BOLTS AT HIS OPTION, SUBJECT TO MINIMUM NUMBER OF BOLTS REQUIREMENT).
7. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
8. PROVIDE WEB REINFORCING AS REQUIRED DUE TO WEB CUTS, COPES, PRESCRIBED FORCES WHICH EXCEED THE MEMBERS LOCAL DESIGN CAPACITIES, ETC.
9. DESIGN OF DOUBLE ANGLE AND SHEAR PLATE CONNECTIONS SHALL BE BASED UPON THE LATEST AISC PROCEDURES SHOWN IN THE AISC MANUAL OF STEEL CONSTRUCTION.
10. ALTERNATIVE CONNECTION SYSTEM (SINGLE ANGLE) MAY BE USED ONLY AT FILLER BEAM TO BEAM CONNECTIONS (EXCLUDING EDGE BEAMS) PROVIDED THE CONTRACTOR'S PROFESSIONAL ENGINEER SUBMITS THE DESIGN CALCULATIONS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

TABLE A MINIMUM NUMBER OF BOLTS FOR SIMPLE SHEAR CONN.

BEAM SIZE	"N"
W6	2
W8	2
W10	2
W12	2
W14	3
W16	3
W18	4
W21	4
W24	4
W27	5
W30	5
W33	6
W36	6
W40	7
W44	7

TABLE B MINIMUM CONN. FACTORED LOAD

BEAM SIZE	FACTORED LOAD (K)
W6	15
W8	20
W10	25
W12	35
W14	40
W16	45
W18	45
W21	55
W24	55
W27	65
W30	65
W33	80
W36	80
W40	90
W44	90

TABLE C MINIMUM FILLET WELDS SIZE

THINNER PART JOINED	MINIMUM FILLET WELD
UP TO 3/4"	1/4"
OVER 3/4"	5/16"

"N" = MINIMUM NUMBER OF BOLTS REQUIRED PER CONNECTION. THE TABULATED MINIMUM NUMBER OF BOLTS WILL GENERALLY BE EXCEEDED BY OTHER DESIGN CRITERIA.

1 Simple Shear Connection Details

SCALE: NTS

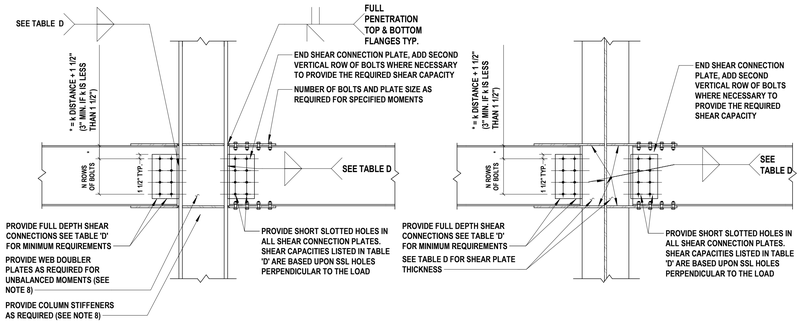


TABLE D
SHEAR CONNECTION REQUIREMENTS FOR TYPE 'A' MOMENT CONNECTIONS

- PROVIDE FULL DEPTH SINGLE SHEAR PLATE.
- PROVIDE MINIMUM WELD SIZE TABULATED.
- BOLTS TO BE MINIMUM " DIAMETER, A325(SC).
- PROVIDE 1/" DIAMETER A490(SC) BOLTS WHERE ACTUAL GIRDER SHEAR EXCEEDS TABULATED CAPACITY

WIND GIRDER DEPTH	NUMBER OF HORIZONTAL ROWS OF BOLTS "N"	MINIMUM SHEAR PLATE THICKNESS Fy=50	MINIMUM SHEAR PLATE THICKNESS Fy=36	MINIMUM FILLET WELD SIZE (E70XX)	CONNECTION SHEAR CAPACITY (LRFD - KIPS) 7/8"Ø A325
W12, W14	3	1/2	5/8	5/16	33
W16	4	1/2	5/8	5/16	44
W18	5	1/2	5/8	5/16	56
W21	6	1/2	5/8	5/16	67
W24	6	1/2	5/8	5/16	67
W27	7	1/2	5/8	5/16	78
W30	8	1/2	5/8	5/16	89
W33	9	1/2	5/8	5/16	100
W36	10	1/2	5/8	5/16	111
W40	11	1/2	5/8	5/16	122
W44	12	1/2	5/8	5/16	133

NOTE: SEE MOMENT CONNECTION TYPICAL DETAILS FOR MOMENT CONNECTION FLANGE PLATES, WELDS, BOLTS, ETC.

TERMINOLOGY & LEGEND FOR L.L.R.S. FRAMES

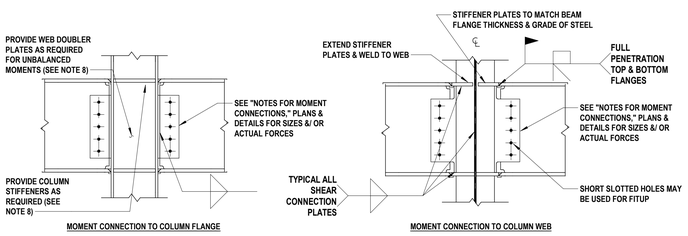
1. "L.L.R.S." MEANS "LATERAL LOAD RESISTING SYSTEM" (USUALLY THIS NOMENCLATURE DOES NOT APPEAR ON FRAMES OR ON INDIVIDUAL MEMBERS.)
2. ⟷ = A MOMENT CONNECTION, TYPE A OR TYPE B.
3. TYPE A MOMENT CONNECTION: PART OF A LATERAL LOAD RESISTING SYSTEM, THIS CONNECTION HAS THE MOST STRINGENT REQUIREMENT - IT MUST DEVELOP THE FULL MOMENT CAPACITY OF THE GIRDER & PROVIDE THE GREATER SHEAR CAPACITY REQUIRED TO RESIST SHEAR FORCES GENERATED BY COMBINED GRAVITY PLUS LATERAL LOADS (SEE TYPE A SHEAR CONNECTION DETAILS).
4. TYPE B MOMENT CONNECTION: ALL OTHERS, SUCH AS: CANTILEVERS, STIFFENING OF MEMBERS TO REDUCE DEFLECTION, ETC. A DESIGN MOMENT LESS THAN FULL MOMENT CAPACITY MAY BE INDICATED ON FRAMING PLANS, IN WHICH CASE THE CONNECTION MAY BE DESIGNED FOR THIS VALUE. IF NO MOMENT IS GIVEN, THE CONNECTION MUST BE DESIGNED FOR FULL MOMENT CAPACITY.

NOTES FOR MOMENT CONNECTIONS

1. ALL MOMENT CONNECTIONS SHALL BE TYPE A MOMENT CONNECTIONS U.O.N ON PLANS INDICATED MOMENT VALUES (SEE LEGEND FOR DEFINITION & REQUIREMENTS).
2. SHEAR CONNECTIONS SHALL CONFORM TO "TABLE D SHEAR CONNECTION REQUIREMENTS FOR TYPE A MOMENT CONNECTIONS."
3. WELDS & BOLTS FOR MOMENT CONNECTIONS SHALL DEVELOP THE FULL MEMBER MOMENT CAPACITY.
4. MOMENT CONNECTION PLATES SHALL BE SIZED AS REQUIRED FOR THE SPECIFIED MOMENT.
5. WELD MAY BE SUBSTITUTED FOR BOLTS UPON PRIOR APPROVAL OF THE E.O.R. PROVIDE WEB &/ OR FLANGE REINFORCING WHERE REQUIRED DUE TO WEB CUTS OR COPES FOR CONNECTIONS.
6. PER THE PROVISIONS OF CHAPTER J OF THE AISC SPECIFICATIONS, PROVIDE COLUMN FLANGE STIFFENERS WHERE REQUIRED TO RESIST FORCES FROM MOMENT CONNECTIONS. PROVIDE COLUMN WEB DOUBLER PLATES AS REQUIRED FOR UNBALANCED MOMENT. AT CONTRACTOR'S OPTION A HEAVIER COLUMN MAY BE SUBSTITUTED IN LIEU OF DOUBLER/STIFFENER PLATES, AT NO COST TO THE OWNER.
7. IF SLIP-CRITICAL BOLTS USED IN ALL MOMENT CONNECTIONS SHALL HAVE A MINIMUM DIAMETER OF 7/8" & SHALL BE BASED UPON BOLT VALUES GIVEN IN TABLE 7-4, "SLIP-CRITICAL CONNECTIONS, WHERE 'SLIP IS A STRENGTH LIMIT-STATE'. CLASS A OR B FAYING SURFACE (15TH EDITION OF AISC MANUAL)."
8. IF THE FABRICATOR PROPOSES TO USE CLASS B FAYING SURFACE & GREATER BOLT CAPACITY THAN TABLE 7-4 VALUES, HE MUST SUBMIT HIS PROPOSED DESIGN & FABRICATION PROCEDURES TO THE E.O.R. FOR PRIOR APPROVAL.
9. NUMBER OF BOLTS SHOWN AT SHEAR & MOMENT CONNECTIONS DETAILS DO NOT REPRESENT THE ACTUAL NUMBER REQUIRED. SEE PLANS/DETAILS FOR DESIGN FORCES TO BE INCORPORATED BY THE STEEL FABRICATOR'S ENGINEER.
10. MOMENT CONNECTIONS TO DEVELOP FULL MOMENT CAPACITY OF CANTILEVER BEAMS UNLESS SHOWN OTHERWISE ON PLAN.
11. STRUCTURAL STEEL FABRICATOR SHALL HAVE ALL CONNECTIONS DESIGNED BY A LICENSED STRUCTURAL ENGINEER. STEEL SHOP DRAWINGS SHALL BEAR SIGNATURE AND SEAL OF SAID ENGINEER, THE ENGINEER SHALL BE RESPONSIBLE TO DESIGN WELDED CONNECTIONS IN LIEU OF BOLTED CONNECTIONS TO LIMIT LOCAL BEAM FAILURE STATES.

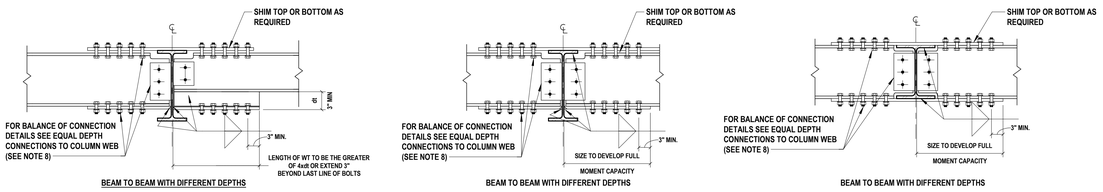
2 L.L.R.S. Type 'A' Shear Connection Details

SCALE: NTS



3 Moment Connection Details

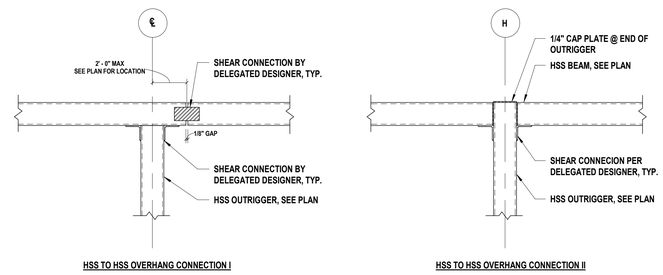
SCALE: NTS



NOTE: WHERE TOP OF BEAM FLANGES DO NOT MATCH, FABRICATOR TO SIZE AND INSTALL HSS SPACERS TO SHIM FLANGE PLATES.

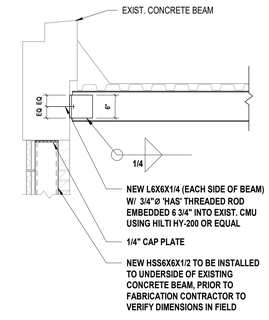
4 Beam to Beam Moment Connection Details

SCALE: NTS



5 Typical HSS Overhang Connections

SCALE: N.T.S.



6 New W Beam Ledgered to Exist. Concrete Beam

SCALE: N.T.S.

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D. SLOANE	D. SLOANE	M. HORNBERGER J. SCHEINER	D. AIELLO

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

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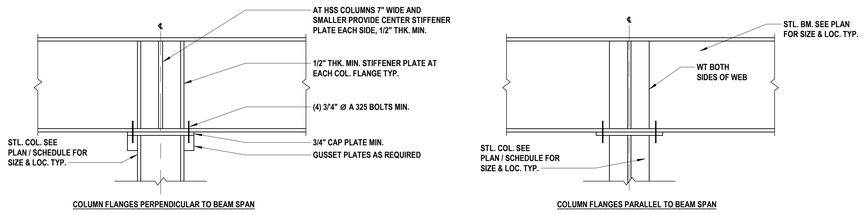
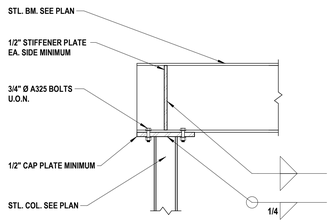
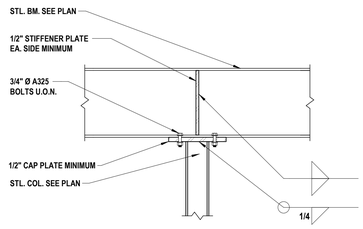


NOTES:
1) FINAL STIFFENER PLATE SIZES, BOLTS, & WELDS TO BE SIZED & DESIGNED BY FABRICATOR'S ENGINEER
2) IF PLANS INDICATE COLUMN MOMENT FOR L.F.R.S. FABRICATOR'S ENGINEER TO DESIGN CAP PLATE FOR INDICATED FORCES
3) WT & STIFFENER PLATES TO BE SAME GRADE OF STEEL AS COLUMN
4) WELD BEAM TO COLUMN PLATE IF BOLTS ARE NOT FEASIBLE AT NO ADDITIONAL COST TO POWER

1 Typical Beam Over Column Detail
SCALE: NTS | H2M: 89A-2/3



2 Beam to Column End Connection Detail
SCALE: NTS



3 Continuous Beam to Column Connection Detail
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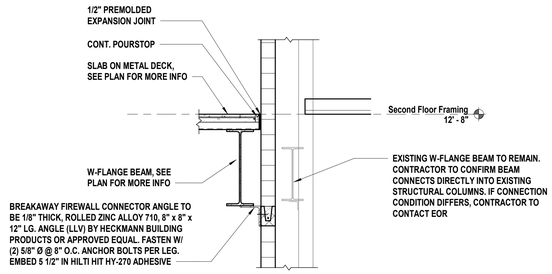

4 Existing Beam Abutting New Addition
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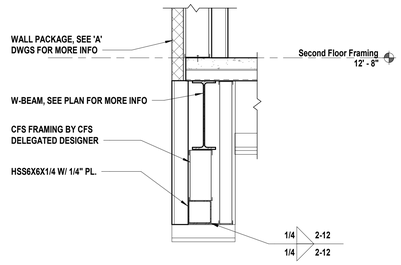

5 Section at Overhang Framing
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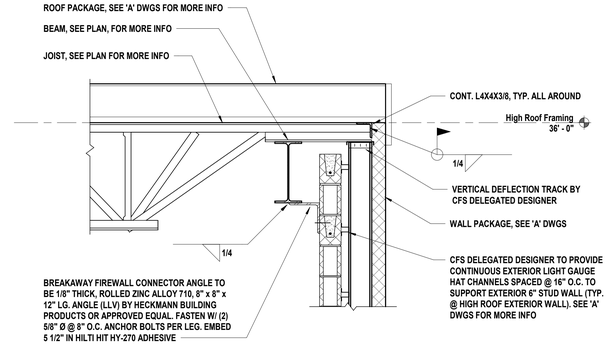

6 Section at High Roof Framing
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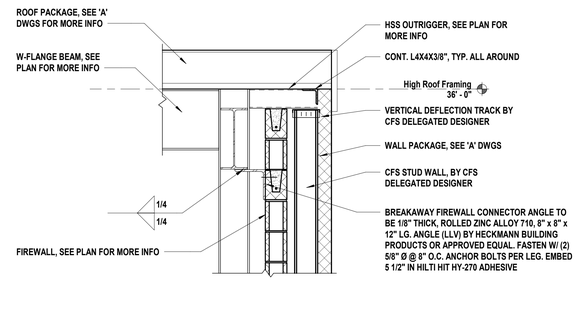

7 Section at High Roof with HSS Outrigger
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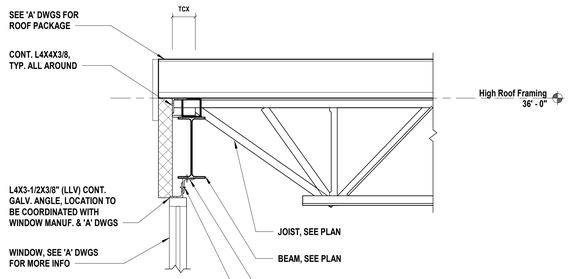

8 High Roof TCX at Column
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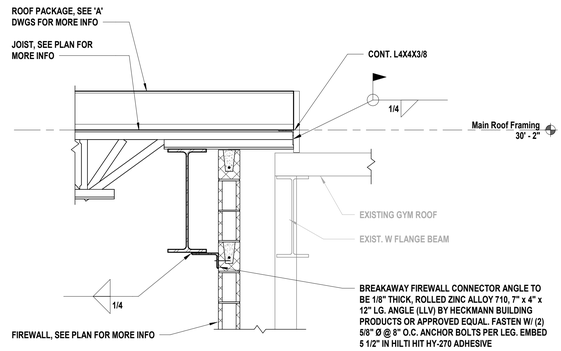

9 Main Roof-Existing Roof Transition
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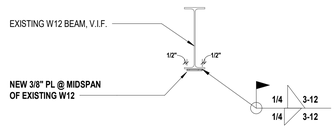
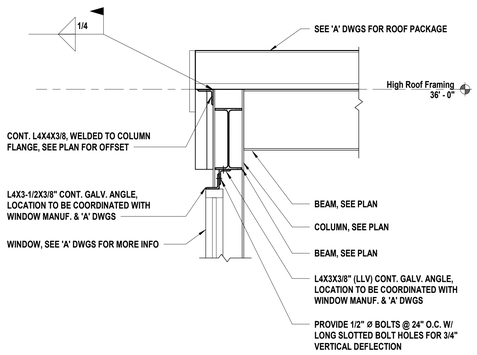


NOTES:
NEW STEEL PLATE WIDTH TO BE 1" SMALLER THAN EXISTING W12 BOTTOM FLANGE WIDTH. PRIOR TO FABRICATION, CONTRACTOR TO VERIFY WIDTH IN FIELD.

10 Existing Beam Enhancement Detail
SCALE: N.T.S.



11 Section at Roof Edge at Column
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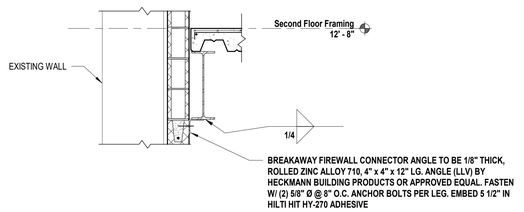
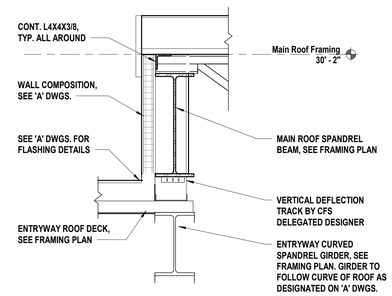


12 Firewall Clip Detail @ North Wall
SCALE: 3/4" = 1'-0"



13 Entryway Roof Interface W/ Main Roof
SCALE: 3/4" = 1'-0"

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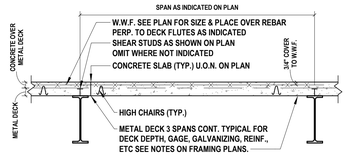
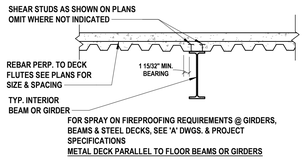


NOTE: ADDL' REBAR NOT SHOWN FOR CLARITY

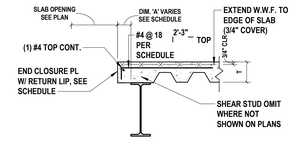
METAL DECK PERPENDICULAR TO FLOOR BEAMS OR GIRDERS



FOR SPRAY ON FIREPROOFING REQUIREMENTS @ GIRDERS, BEAMS & STEEL DECKS, SEE 'A' DWGS. & PROJECT SPECIFICATIONS

METAL DECK PARALLEL TO FLOOR BEAMS OR GIRDERS

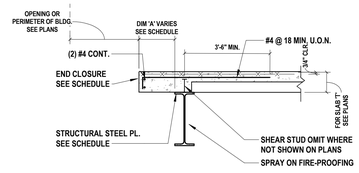
1 Typical Slab on Deck Construction
SCALE: NTS



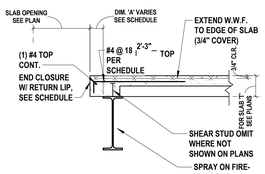
NOTE: ADDL' REBAR NOT SHOWN FOR CLARITY

END CLOSURE PLATE SCHEDULE				
T = UP TO & INCLUDING 6 1/4"		T = OVER 6 1/4", UP TO & INCLUDING 8"		REMARKS
A	GAUGE OF PLATE	A	GAUGE OF PLATE	
UP TO 4"	14	UP TO 4"	12	--
OVER 4" TO 8"	12	OVER 4" TO 8"	10	FOR A>6" OR GREATER PROVIDE #4 @18 TOP
OVER 8" TO 10"	10	OVER 8" TO 10"	1/4" THICK PLATE	PROVIDE #4@18 TOP
10" TO 12"	3/16" THICK PLATE			PROVIDE #4@18 TOP
12" TO 15"	1/4" THICK PLATE			PROVIDE #4@18 TOP

NOTES:
1. CLOSURE TO BEAR 2" ON FLANGE OF BEAM
2. WELD CLOSURE TO TOP FLANGE PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE RETURN LIP AT ALL VERTICAL LEGS, 1" FOR 10 GAUGE, 3/4" FOR 12 GAUGE, 1/2" FOR 14 GAUGE.
4. IF 'A' EXCEEDS DIMENSIONS SHOWN ABOVE, REINFORCE POUR STOP WITH STIFFENERS OR SHORE UP THE EDGE OF SLAB DURING POUR
5. FOR EXTERIOR SLAB EDGES SEE DETAILS OF PERIMETER CONDITIONS



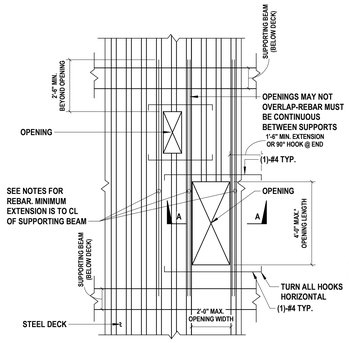
NOTE: SEE'A' DWGS FOR EDGE OF SLAB DIMENSIONS

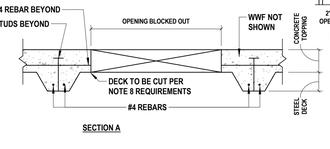


NOTE: ADDL' REBAR NOT SHOWN FOR CLARITY

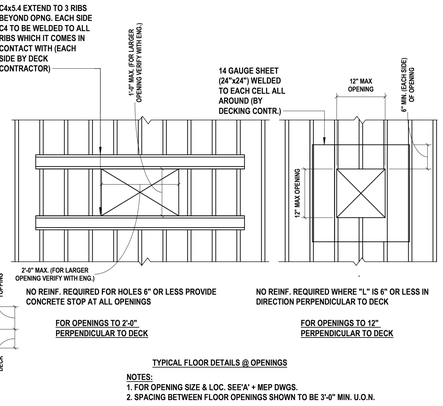
2 Typical Slab Edge at Interior Openings
SCALE: NTS

NOTES:
1. OPENINGS WHICH ARE DETERMINED BY THE CONTRACTOR TO BE REQUIRED BY JOB CONDITIONS, BUT WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE SUBMITTED TO THE ARCHITECT & STRUCTURAL ENGINEER FOR REVIEW & APPROVAL.
2. BLOCK OUT OPENING ON TOP OF DECK & RIBS.
3. DECK IS NOT TO BE CUT WHEN OPENINGS ARE BLOCK OUT.
4. PLACE REINFORCING BARS IN CONTINUOUS RIBS IMMEDIATELY ADJACENT TO OPENING & IN TOPPING SLAB PERPENDICULAR TO RIBS
5. WHEN RIBS ARE SPACED @ 12" OR 8" ON CENTER, REINFORCING REQUIRED = (2) #4 FOR EACH RIB PARTIALLY OR FULLY CUT, PLACE ONE HALF OF REBARS ON EACH SIDE OF OPENING, 2 BARS MAXIMUM PER RIB.
6. WHEN RIBS ARE SPACED @ 6" ON CENTER, REINFORCING REQUIRED = (1)#4 (MINIMUM) FOR EACH RIB PARTIALLY OR FULLY CUT. ADD (1) #4 IF AN ODD NUMBER OF RIBS IS CUT, PLACED ONE HALF OF REBARS ON EACH SIDE OF OPENING, ONE BAR PER RIB.
7. PROVIDE ADEQUATE CHAIRS & SPACERS TO HOLD REBAR SECURELY IN PLACE DURING PLACEMENT OF CONCRETE.
8. AFTER CONCRETE HAS BEEN PLACED & HAS ATTAINED @ LEAST 70 PERCENT OF ITS DESIGN STRENGTH, THE BLOCKOUTS MAY BE REMOVED & THE STEEL DECK MAY BE BURNED OUT @ THE EDGES OF THE OPENING.
9. FOR HOLES UP TO 6" DIAMETER OR 6"x6", REINFORCING WILL NOT BE REQUIRED.





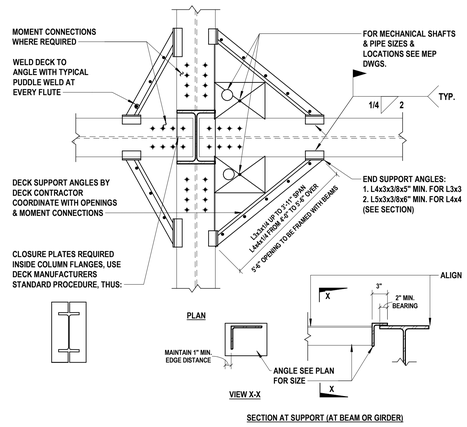
OPENING IN COMPOSITE SLAB



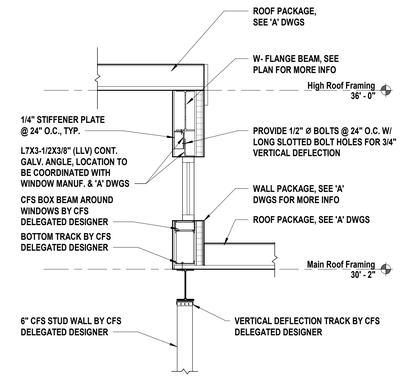
TYPICAL FLOOR DETAILS @ OPENINGS

NOTES:
1. FOR OPENING SIZE & LOC. SEE'A' + MEP DWGS.
2. SPACING BETWEEN FLOOR OPENINGS SHOWN TO BE 3'-0" MIN. U.O.N.

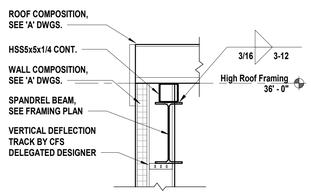
3 Typ Slab on Deck Opening Smaller than 4'-0" x 2'-0" Details
SCALE: NTS



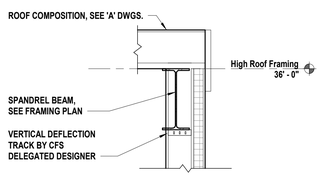
5 Typical Slab on Deck Support at Interior Columns
SCALE: NTS



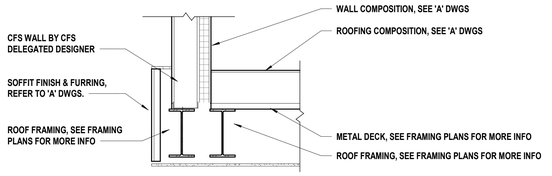
6 Main-High Roof Transition
SCALE: NTS



7 High Roof North Deck Edge Detail
SCALE: NTS



8 High Roof Deck Edge Detail
SCALE: NTS



9 Main Roof Deck Edge at Stairwell Roof
SCALE: NTS

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CONSULTANTS:

MARK	DATE	DESCRIPTION

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

4/30/2027
Exp. Date

DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER Lic. No. 100515

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D. SLOANE	D. SLOANE	M. HORNBERGER J. SCHEINER	D. AIELLO

PROJECT No.:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY · ACCESS · HARRISON CENTRAL SCHOOL DISTRICT · RIGOR · ADAPTABILITY

255 Union Ave, Harrison, NY 10528

CONTRACT

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STATUS

FINAL BID DOCUMENT

SHEET TITLE

METAL DECK DETAILS

DRAWING No.

S 533.00

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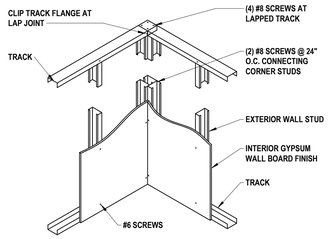
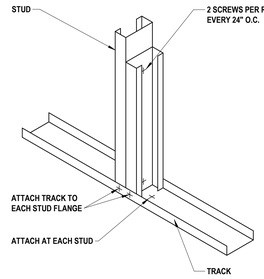
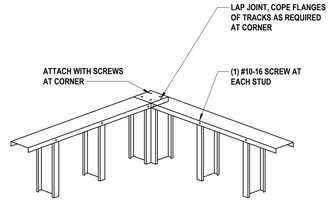


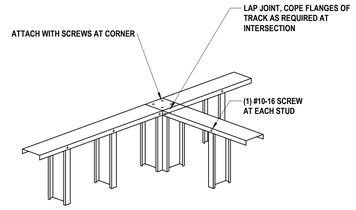
1 Wall Corner Framing Detail
SCALE: NTS



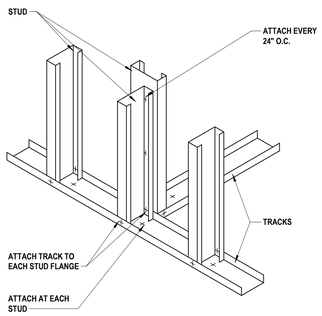
2 Back-to-Back Studs Detail
SCALE: NTS



3 Exterior Corner Tie Detail
SCALE: NTS



4 Interior Corner Tie Detail
SCALE: NTS



5 Partition Intersection Detail
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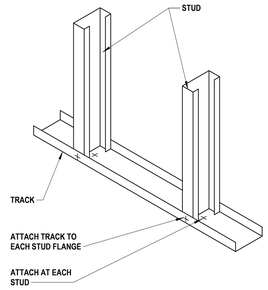
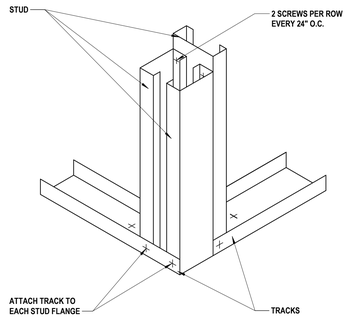
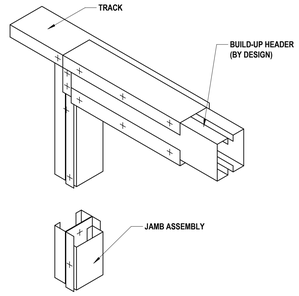


6 Studs in Place Detail
SCALE: NTS

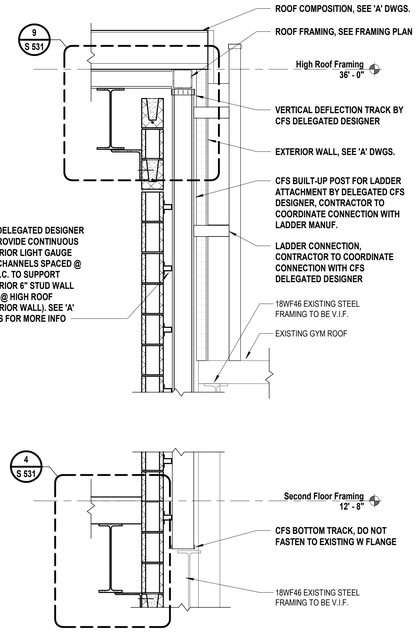


7 Three Stud Corner Detail
SCALE: NTS

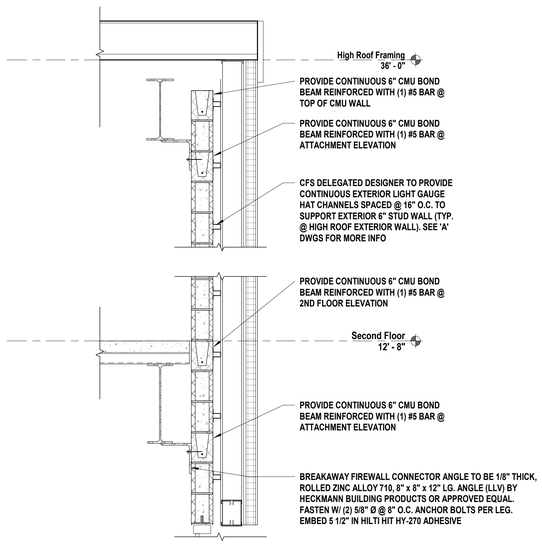


NOTE: FASTEN BUILT-UP MEMBER TOGETHER AT 12" O.C. MAX

8 Bearing Header Detail
SCALE: NTS



9 High Roof to Exist Gym Roof Detail
SCALE: N.T.S.



10 Exterior CFS Wall Attachment to 6" CMU Wall
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4/30/2027
Exp. Date

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D. SLOANE	D. SLOANE	M. HORNBERGER J. SCHEINER	D. AIELLO

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

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Fitness Center Addition at Harrison High School

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COLD FORMED STEEL DETAILS

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COLUMN SCHEDULE

COLUMN DESIGNATION	A			B			C		D	E		F		G			H				I				J				K					L	
	4	7	11	4	7	10	2	4	1	5	9	1	7	1	5	9	1	5	7	9	1	5	7	9	1	5	7	9	1	3	5	7	8	1	3
HIGH ROOF FRAMING [36'-0"]																																			
MAIN ROOF FRAMING [30'-2"]				W8x31	W8x31	W8x31	W8x31	W8x31	W8x31	W8x31	W8x31			W8x31	W8x31	W8x31	W8x31	W8x31	W8x31	W8x31	W8x31	W8x31	W8x35	W8x31	W8x31	W8x31	W8x31	W8x31			W8x31	W8x31	W8x31		
LOW ROOF FRAMING [19'-10"]	W8x31	W8x31	W8x31									W8x31		W8x31			W8x31				W8x31				W8x31				W8x31	W8x31				W8x31	W8x31
SECOND FLOOR FRAMING [12'-2"]													W8x31																						
FIRST FLOOR [0'-0"]																																			
BASEPLATE	BP-1	BP-1	BP-2	BP-1	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-2	BP-3	BP-3	BP-2	BP-2	BP-2	BP-3	BP-1	BP-1	BP-2	BP-2	BP-1	BP-2	BP-2	BP-2	BP-2	BP-2	BP-5	BP-4

COLUMN SCHEDULE NOTES:

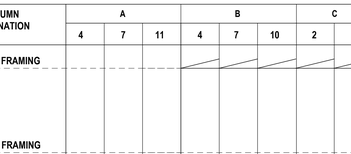
1. ◥ INDICATES STORY ELEVATION OF COLUMN. ACTUAL TOP OF COLUMN TO BE COORDINATED WITH CAP PLATE, CAPPED STEEL FRAMING, AND FLOOR MATERIAL THICKNESS.
2. ◢ INDICATES BOTTOM OF STORY ELEVATION OF COLUMN. ACTUAL BOTTOM OF COLUMN TO BE COORDINATED WITH BASE PLATE AND GROUT THICKNESS.
3. ALL BASE PLATES TO BEAR ON CONCRETE SHALL BE SHIMMED USING 1" NON-METALLIC, NON-SHRINK GROUT U.O.N.
4. SEE "FOOTING SCHEDULE" FOR FOOTING SIZE AND REINFORCING

BASE PLATE SCHEDULE

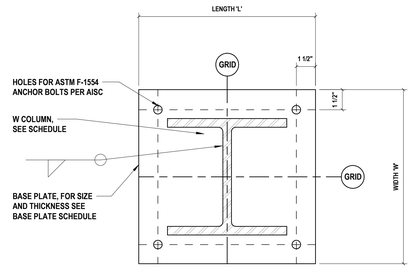
MARK	WIDTH 'W'	LENGTH 'L'	THICKNESS	NOTE	DETAIL
BP1	14"	24"	1"	1,3	1 / S 600
BP2	14"	14"	3/4"	2	2 / S 600
BP3	12"	12"	1"	2	2 / S 600
BP4	15"	15"	1 1/4"	1,4	3 / S 600
BP5	18"	28"	1 1/4"	1,3	1 / S 600

NOTES:

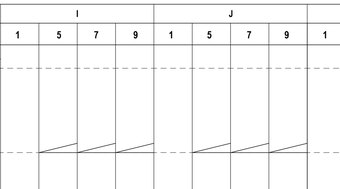
1. PROVIDE 1" ø ASTM F1554, GRADE 55 ANCHOR BOLTS FOR NON-MOMENT BASE PLATE EMBEDDED 8" MIN.
2. PROVIDE 3/4" ø ASTM F1554, GRADE 55 ANCHOR BOLTS FOR NON-MOMENT BASE PLATE EMBEDDED 8" MIN.
3. OFFSET C.L. OF COLUMN 4", SEE DETAIL REFERENCED IN SCHEDULE.
4. OFFSET C.L. OF COLUMN 1", SEE DETAIL REFERENCED IN SCHEDULE.
5. REFER TO BASE PLATE DETAILS FOR ANCHOR BOLT LOCATIONS.



1 **BP-1 & BP-5**
SCALE: NTS



2 **BP-2 & BP-3**
SCALE: NTS



3 **BP-4**
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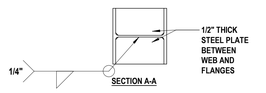

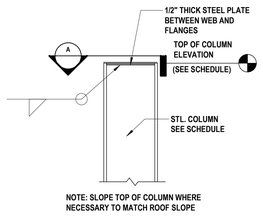

4. **Typical Column Cap Detail**
SCALE: N.T.S.

LINTEL SCHEDULE

MARK	SIZE	DETAILS	COMMENTS
LL-1	(2) L2-1/2 x 2-1/2x 3/8"		NOTES 1-6
LL-2	(2) L3-1/2 x 3-1/2x 3/8"		NOTES 1-6
LL-3	(2) L4 x 4x 1/4" x 1/2" SPACER W/ (1) L3-1/2 x3-1/2 x1/4" W/ 1/4" x 16" x M.O. PL		NOTES 1-6,8
LL-4	W8X18 W/ 1/4" PL x M.O. x WALL WIDTH		NOTES 1-5
LL-5	WT7X13 W/ PL 1/4" x 5-1/2" x M.O.		NOTES 1-5,7

NOTE

1. REFER TO ARCH. DRAWINGS FOR MASONRY OPENING WIDTHS.
2. LINTEL LENGTH SHALL BE CLEAR SPAN + 1'-4" TO PROVIDE MIN. BEARING OF 8" ONTO SOLID MASONRY ON EACH SIDE.
3. ALL EXTERIOR LINTELS TO BE SHOP APPLIED HOT DIPPED GALVANIZED. ALL INTERIOR LINTELS TO BE SHOP PRIMED AND FIELD PAINTED AS PER SPECIFICATION.
4. WELD VERTICAL REINFORCEMENT INTERRUPTED BY MASONRY OPENINGS TO TOP OF THE STEEL LINTELS, TYPICAL.
5. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS FOR LINTEL LOCATIONS.
6. VERTICAL LEGS OF DOUBLE ANGLES SHALL BE WELDED TOGETHER.
7. WHERE LINTEL CALLOUT IS INDICATED AT AN EXISTING WALL,CONTRACTOR TO VERIFY EXISTING WALL COMPOSITION PRIOR TO FABRICATION. DESIGN IS BASED ON 6" CMU. NOTIFY E.O.R. OF ANY DISCREPANCIES FOUND.
8. CONTRACTOR TO VERIFY EXISTING WALL COMPOSITION PRIOR TO FABRICATION. DESIGN IS BASED ON 10" CMU, 2-3/4" AIR GAP AND 4" BRICK VENEER. NOTIFY E.O.R. OF ANY DISCREPANCIES FOUND.

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GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

SCHEDULE & DETAILS

DRAWING No.

S 600.00

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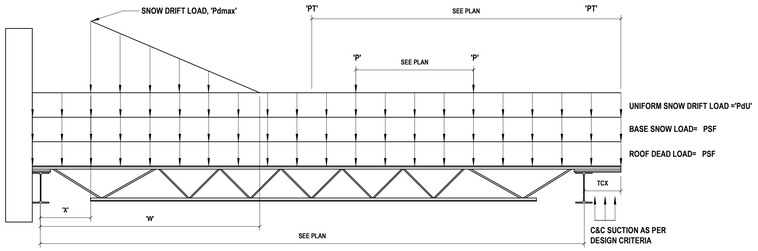
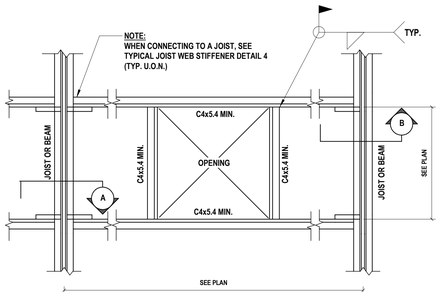


SPECIAL JOIST LOADING INFO						
JOIST DESIGNATION	'X'	'W'	'Pdmax'	'PdU'	'P'	'PT'
SP-1			SEE PLAN			
SP-2	85 PLF				410 LBS	
SP-3					550 LBS	SEE PLAN
SP-4					410 LBS	SEE PLAN
SP-5					234 LBS	SEE PLAN

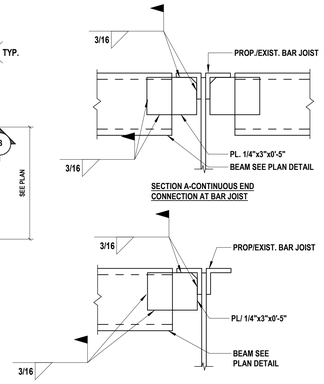
NOTES:
1. REFER TO ROOF FRAMING PLANS FOR SPACING OF JOISTS AND LOCATIONS OF AREAS OF ADDITIONAL LOAD INCLUDING SNOW DRIFTS, AS WELL AS HVAC EQUIPMENT.
2. WHERE DRIFTS ARE PERPENDICULAR TO THE SPAN OF THE JOISTS, LINEAR INTERPOLATION MAY BE USED TO CREATE A RECTANGULAR LOAD DISTRIBUTION
3. JOIST MANUFACTURER TO REINFORCE TOP CHORD EXTENSIONS AS NEEDED FOR LOADING SHOWN ON DIAGRAM, TYP. FOR ALL LH TYPE JOISTS SHOWN ON PLANS.
4. ALL POINT LOADS SHOWN ARE TO BE CONSIDERED AS 'ADD' LOADS. FINAL REINFORCEMENT OF JOISTS TO BE LOCATED IN COORDINATION WITH HVAC SHOP DRAWINGS AND UNIT MANUF.

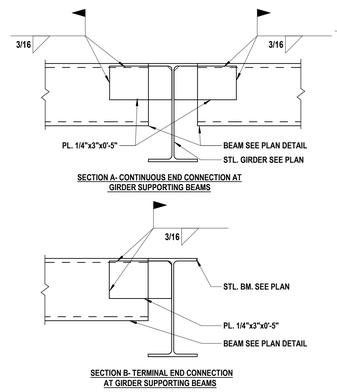
1 SP Joist Loading Schedule
SCALE: NTS

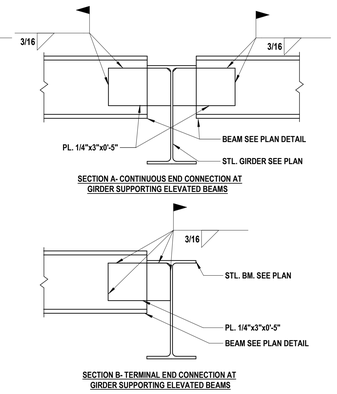


PLAN

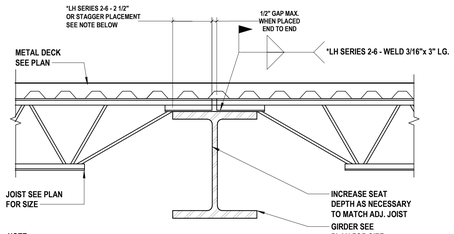
NOTE:
PROVIDE 1/8" FILLET WELD FOR ATTACHING TO EXISTING STEEL THAT IS LESS THAN 1/4". PROVIDE 3/16" WELD FOR ATTACHING TO EXISTING STEEL THAT IS EQUAL TO OR GREATER THAN 1/4" THICK.





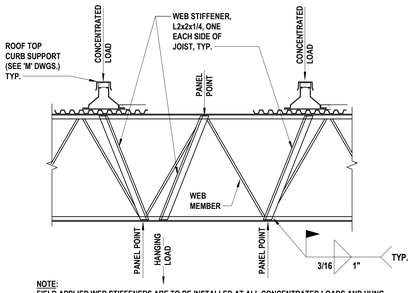


2 Typical Framed Roof Opening at Steel Joist or Beam
SCALE: NTS



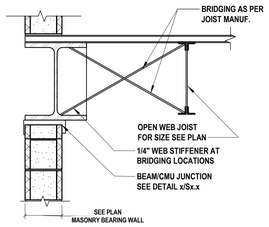
NOTE:
PROVIDE 1/2" GAP MIN. AT END TO END CONDITIONS.

3 Typical Steel Joist Bearing at Steel Beam Detail
SCALE: NTS

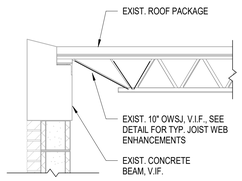


NOTE:
FIELD APPLIED WEB STIFFENERS ARE TO BE INSTALLED AT ALL CONCENTRATED LOADS AND HUNG LOADS NOT OCCURRING AT JOISTS PANEL POINTS.

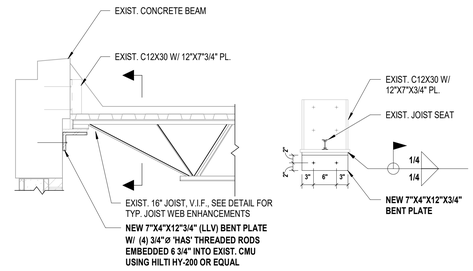
4 Typical Joist Web Stiffeners at Applied Point Loads
SCALE: NTS



5 Joist Bridging at Spandrel Beam
SCALE: NTS

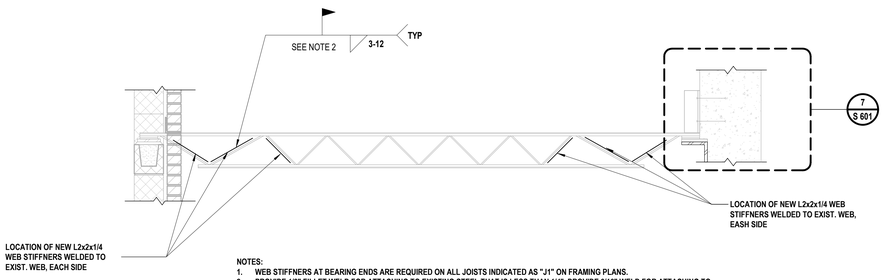


6 Exist. 10" Joist Bearing on Concrete Beam
SCALE: N.T.S.



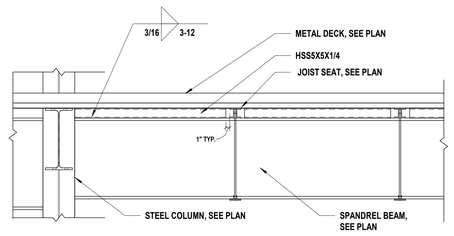
NOTE: PRIOR TO INSTALLATION, CONTRACTOR TO V.I.F. CONCRETE COMPOSITION. NOTIFY EOR IF ASSUMPTION DIFFERS.

7 Exist. 16" Joist Ledgered to Concrete Beam
SCALE: N.T.S.



NOTES:
1. WEB STIFFNERS AT BEARING ENDS ARE REQUIRED ON ALL JOISTS INDICATED AS "J1" ON FRAMING PLANS.
2. PROVIDE 1/8" FILLET WELD FOR ATTACHING TO EXISTING STEEL THAT IS LESS THAN 1/4". PROVIDE 3/16" WELD FOR ATTACHING TO EXISTING STEEL THAT IS EQUAL TO OR GREATER THAN 1/4" THICK.

8 Typical Joist Enhancement J1
SCALE: NTS



NOTE: THIS DETAIL IS APPLICABLE AT ALL MOMENT FRAME AND BRACE FRAME LOCATIONS WHERE THE ROOF BEAM IS RECESSED FOR THE JOIST SEATS.

9 Typical Rollover Shear Collector Detail at Joist Bearing Areas
SCALE: NTS

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Melville, NY 11747
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NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION

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

4/30/2027
Exp. Date

DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER Lic. No. 100515

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
Designer	D. SLOANE	M. HORNBERGER J. SCHEINER	D. AIELLO

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • RIGOR • ADAPTABILITY · HARRISON CENTRAL SCHOOL DISTRICT · HCSD

255 Union Ave, Harrison, NY 10528

CONTRACT

CONTRACT G GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

JOIST DIAGRAMS & SCHEDULE

DRAWING No.

S 601.00

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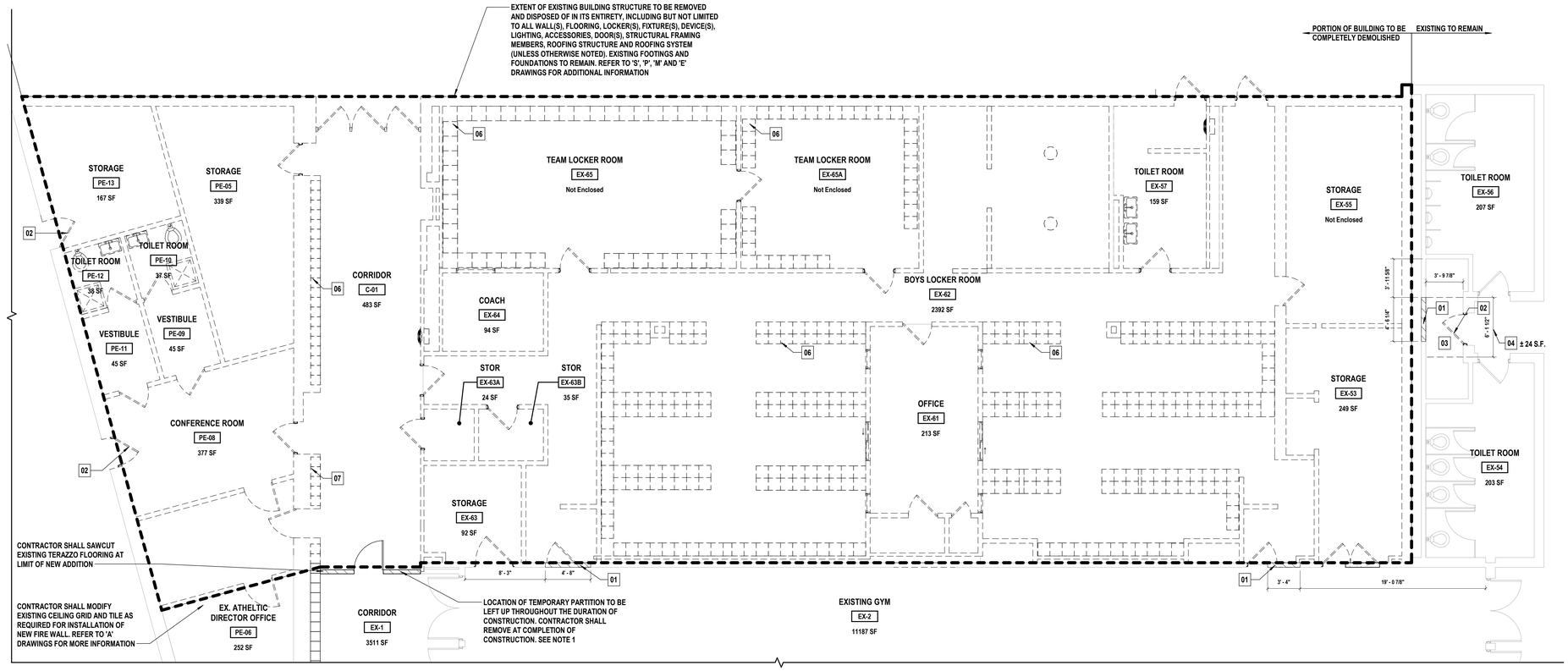


1 Partial First Floor Demolition Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

NOTE:
1. TEMPORARY PARTITION. ADD NEW EXIT SIGN AS REQUIRED TO ACCOMMODATE TEMPORARY EGRESS. CONTRACTOR SHALL NOTE REMOVE TEMPORARY PARTITION UNTIL CONSTRUCTION IS COMPLETE. PATCH WALL AS REQUIRED. REFER TO GENERAL NOTES 16.

GENERAL DEMOLITION WORK NOTES (CONTRACT 'G' U.O.N)

1. ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL NEW YORK STATE EDUCATION DEPARTMENT STANDARDS, ALL FEDERAL N.Y.S. AND APPLICABLE BUILDING CODES AND LIFE AND SAFETY REGULATIONS.
2. ALL CONTRACTORS SHALL OBEY ALL CODES, STATUTES AND LAWS AS APPLICABLE TO DEMOLITION WORK IN AN OCCUPIED BUILDING AND FOR REMOVAL OF MATERIALS SAFELY FROM THE SITE, INCLUDING ALL OSHA REGULATIONS.
3. PORTION OF BUILDING TO BE DE-ENERGIZED BY SUB-CONTRACTOR. WATER, GAS, AND ELECTRIC LINES TO BE DISCONNECTED TOGETHER WITH SEWER AND STORM LINES BY RESPECTIVE SUB-CONTRACTORS PRIOR TO THE START OF ANY WORK.
4. THE INTENDED SCOPE OF DEMOLITION WORK INCLUDES, BUT NOT LIMITED TO THE FOLLOWING:

   BUILDING AREA SHALL BE DEMOLISHED IN ITS ENTIRELY, INCLUDING BUT NOT LIMITED TO THE REMOVAL OF ALL FOUNDATION/FOOTINGS, FLOOR SLAB, INTERIOR PARTITIONS, EXTERIOR WALLS, CEILING, FIXTURES, FINISHES, EQUIPMENT, BUILDING SYSTEMS, DOORS, WINDOWS, ROOF SYSTEM, ETC. FOLLOWING COMPLETE DEMOLITION OF THE BUILDING AREA, THE CONTRACTOR SHALL PREPARE SITE FOR PROPOSED WORK.
5. EXISTING SUB-SURFACE DRAINAGE STRUCTURES TO BE REMOVED. UPON REMOVAL OF ALL SUBSURFACE STRUCTURES, PIPES, SERVICES, ETC., SITE SHALL BE BACK FILLED AND AREA GRADED LEVEL (UNLESS OTHERWISE NOTED).
6. ALL CONTRACTORS SHALL DISPOSE OF ALL UNWANTED MATERIALS AND OTHER DEMOLITION DEBRIS OFF SITE IN ACCORDANCE WITH CONTRACT REQUIREMENTS AND ALL APPLICABLE CODES, STATUES, AND LIMITATIONS.
7. REMOVE AND DISPOSE OF ALL ITEMS THAT BECOME ABANDONED AS A RESULT OF THE WORK BEING PERFORMED, INCLUDING, BUT NOT LIMITED TO ELECTRICAL, DRAINAGE STRUCTURES AND PIPING, UNDERGROUND CONDUITS, ABANDONED UTILITY LINES, ETC.
8. ALL HOLES IN SLABS AND WALLS, INCLUDING FINAL PATCHING, ARE THE RESPONSIBILITY OF EACH CONTRACTOR FOR WHOM THE PENETRATIONS ARE REQUIRED, UNLESS OTHERWISE NOTED. HOLES THROUGH SLABS SHALL BE CORE DRILLED. WHERE CORE DRILLING IS NOT POSSIBLE, SLAB SHALL BE SAWCUT.
9. ALL DEMOLITION WORK SHALL BE PERFORMED BY CONTRACT 'G,' UNLESS OTHERWISE NOTED. CONTRACT 'G' SHALL DEMOLISH ALL EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO FLOOR, WALL & CEILING FINISHES AS INDICATED TO PROVIDE FINISHED CONSTRUCTION AS DESCRIBED IN THE CONTRACT DOCUMENTS, WHETHER OR NOT THE DEMOLITION IS SPECIFICALLY CALLED OUT. CONTRACT 'E' SHALL MAINTAIN AND REROUTE ALL CIRCUITS SCHEDULED TO REMAIN. CONTRACT 'P' SHALL MAINTAIN AND REROUTE ALL PLUMBING PIPING SCHEDULED TO REMAIN. CONTRACT 'H' SHALL MAINTAIN AND REROUTE ALL HYDRONIC LINES AND CONTROL CIRCUITS SCHEDULED TO REMAIN.
10. THE CONTRACTOR SHALL VERITY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES OF ALL ITEMS PRIOR TO BID.
11. THE CONTRACTOR SHALL REVIEW SCOPE OF DEMOLITION WORK WITH OWNER AND COORDINATE WHICH ITEMS WILL BE REMOVED CAREFULLY AND RETURNED TO DISTRICT.
12. OVER-DEMOLITION SHALL BE ALLOWED PROVIDED THAT ALL SURFACES SHALL BE REBUILT TO MATCH MATERIALS, STRUCTURAL INTEGRITY, AND APPEARANCE OF THOSE WHICH WERE REMOVED IN CONFORMANCE WITH CONTRACT DOCUMENTS AND AT NO ADDITIONAL COST TO THE DISTRICT AND THAT ROOM PERIMETER WALLS REMAIN INTACT. GENERAL DEMOLITION NOTES (CONTRACT 'G' UNLESS OTHERWISE NOTED)
13. STORE ALL MATERIALS TO BE REUSED SAFELY ON SITE. TURN OVER ALL MATERIALS TO BE SAVED BUT NOT REUSED IN A LOCATION PREDETERMINED AND/OR AS DIRECTED BY THE DISTRICT.
14. PROVIDE TEMPORARY SUPPORT DURING DEMOLITION AT ALL LOCATIONS WHERE EXISTING PARTITIONS AND STRUCTURE ARE TO BE REMOVED.
15. CONTRACTOR'S ACCESS SHALL BE AS INDICATED IN THE CONTRACT DOCUMENTS, SUBJECT TO THE ACCEPTANCE OF THE OWNER AND CONSTRUCTION MANAGER. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN ALONG THE ACCESS ROUTE AND ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK FROM DAMAGE DURING THE PROJECT DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE EXISTING CONDITIONS AND/OR FINISHES AS DAMAGED DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
16. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND DISPOSE OF ALL SURFACE OF ALL SURFACE MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO FURNISHINGS, FIXTURES, PIPING, EQUIPMENT, CONDUITS, SIGNAGE, SCHEDULED TO REMAIN AS REQUIRED TO COMPLETE THE WORK OF THIS CONTRACT.
17. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PORTIONS OF THE EXISTING BUILDING WHERE NEW WORK IS TO BE COMPLETED FROM DUST, INCLEMENT WEATHER AND FREEZING WITH WEATHER TIGHT BARRIERS. PROVIDE DUST FREE BARRIER PARTITIONS DURING DEMOLITION TO PREVENT DEBRIS FROM ENTERING STUDENT AND FACULTY OPERATED AREAS.
18. THIS DRAWING IS A GENERAL LIST OF DEMOLITION ITEMS AND IS NOT EVERY ITEM REQUIRED FOR DEMOLITION. CONTRACTOR SHALL PROVIDE ALL DEMOLITION INDICATED HEREWITH THE CONTRACT DRAWINGS AND SPECIFICATIONS IN ORDER TO PREPARE THE SITE FOR NEW CONSTRUCTION.
19. CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE FIRE ALARM MONITORING COMPANY PRIOR TO REMOVING EXISTING FIRE ALARM DEVICES. REMOVAL SHALL BE DONE IN A MANNER THAT THE REST OF THE BUILDING REMAINS AN ACTIVE SYSTEM. DEMOLITION OF FIRE ALARM DEVICES MUST BE COMPLETED BY AN APPROVED FIRE ALARM CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

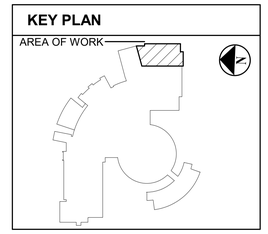
DEMOLITION PLAN KEYED NOTES

01	THE 'G' CONTRACTOR TO SAWCUT AND REMOVE AND DISPOSE OF PORTION OF EXISTING MASONRY WALL AS REQUIRED FOR NEW DOOR OPENING. NEW MASONRY OPENING TO BE PATCHED, REPAIRED AND MADE PLUMB FOR NEW DOOR OPENING. FINISH DOOR OPENING TO MAKE UNIFORM WITH ADJACENT FINISHES
02	CONTRACTOR 'G' SHALL REMOVE AND DISPOSE OF EXISTING DOOR(S), FRAME(S) AND HARDWARE AS INDICATED. REMOVAL SHALL INCLUDE, BUT NOT LIMITED TO ALL DEVICES USED TO SECURE THE DOOR(S) AND FRAME(S) IN PLACE.
03	REMOVE AND DISPOSE OF EXISTING CEILING FINISH INCLUDING VENTS, FIXTURES, LIGHTING, AND ALL ASSOCIATED HARDWARE
04	PREPARE SURFACE FOR NEW FINISH INCLUDING, BUT NOT LIMITED TO, SELF-LEVELING UNDERLAYMENT - REFER TO FINISH SCHEDULE.
05	REMOVE EXISTING PLUMBING FIXTURES AND FLOOR DRAINS. REMOVE ASSOCIATED PIPING BACK TO TIE-IN AND CAP AT SOURCE - REFER TO 'P' DRAWINGS.
06	EXISTING LOCKERS TO BE REMOVED AND TURNED OVER TO OWNER

FLOOR PLAN DEMOLITION LEGEND

	EXISTING WALL TO REMAIN
	EXISTING DOOR AND FRAME TO REMAIN
	EXISTING WINDOW TO REMAIN
	WALL TO BE REMOVED AND DISPOSED OF
	EXISTING DOOR AND FRAME TO BE REMOVED AND DISPOSED OF
	EXISTING WINDOW AND FRAME TO BE REMOVED AND DISPOSED OF
	PORTION OF EXISTING ROOF TO BE REMOVED AND DISPOSED OF

KEY PLAN



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CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

REGISTERED ARCHITECT SAVERIO J. BELFIORE STATE OF NEW YORK 033063

SAVERIO J. BELFIORE, R.A. Exp. Date
PROFESSIONAL ARCHITECT Lic. No. 033063

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

PARTIAL FIRST FLOOR DEMOLITION PLAN, NOTES, AND LEGENDS

DRAWING No.

AD 111.00

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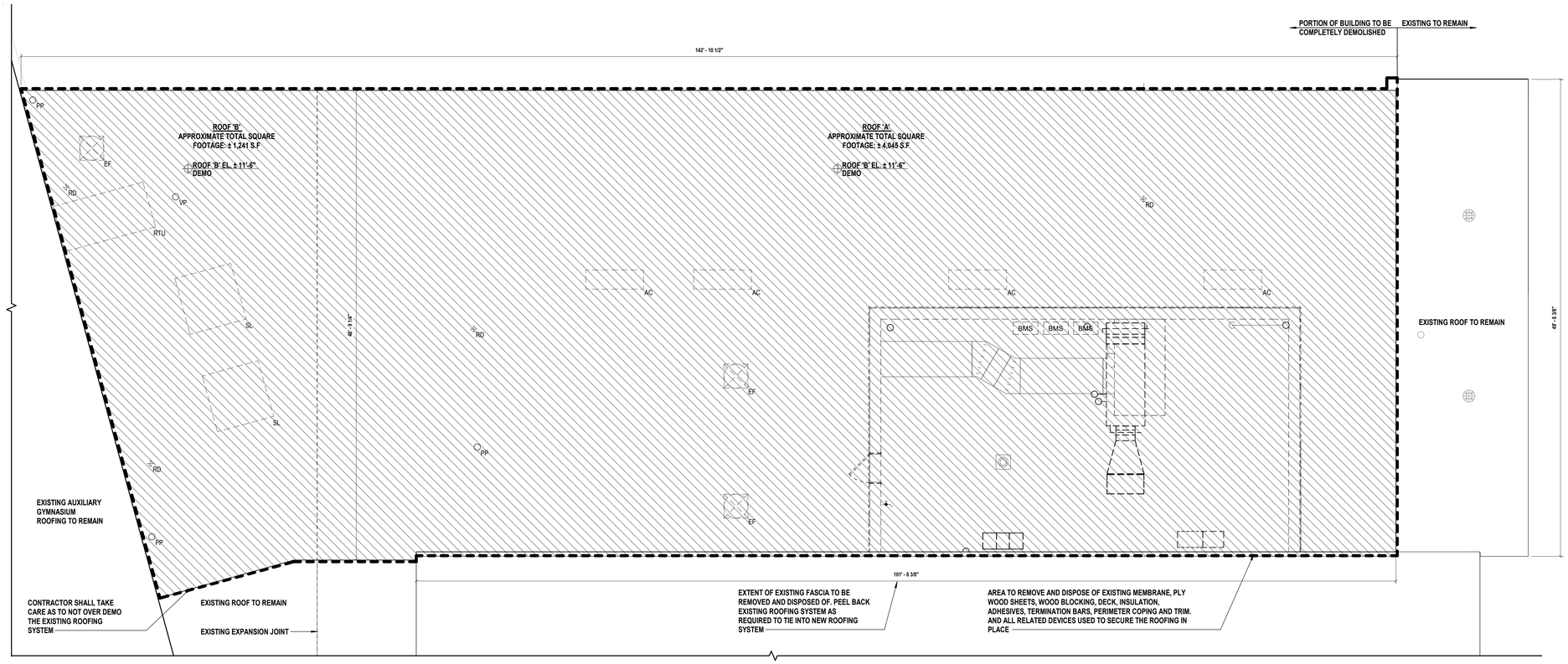

1 Partial Second Floor Demolition Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

GENERAL DEMOLITION WORK NOTES (CONTRACT 'G' U.O.N)

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DEMOLITION PLAN KEYED NOTES

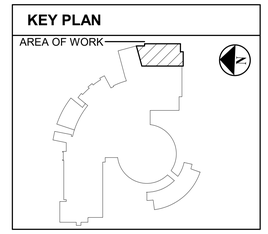
01	THE 'G' CONTRACTOR TO SAWCUT AND REMOVE AND DISPOSE OF PORTION OF EXISTING MASONRY WALL AS REQUIRED FOR NEW DOOR OPENING. NEW MASONRY OPENING TO BE PATCHED, REPAIRED AND MADE PLUMB FOR NEW DOOR OPENING. FINISH DOOR OPENING TO MAKE UNIFORM WITH ADJACENT FINISHES
02	CONTRACTOR 'G' SHALL REMOVE AND DISPOSE OF EXISTING DOOR(S), FRAME(S) AND HARDWARE AS INDICATED. REMOVAL SHALL INCLUDE, BUT NOT LIMITED TO ALL DEVICES USED TO SECURE THE DOOR(S) AND FRAME(S) IN PLACE.
03	REMOVE AND DISPOSE OF EXISTING CEILING FINISH INCLUDING VENTS, FIXTURES, LIGHTING, AND ALL ASSOCIATED HARDWARE
04	PREPARE SURFACE FOR NEW FINISH INCLUDING, BUT NOT LIMITED TO, SELF-LEVELING UNDERLAYMENT - REFER TO FINISH SCHEDULE.
05	REMOVE EXISTING PLUMBING FIXTURES AND FLOOR DRAINS. REMOVE ASSOCIATED PIPING BACK TO TIE-IN AND CAP AT SOURCE - REFER TO 'P' DRAWINGS.
06	EXISTING LOCKERS TO BE REMOVED AND TURNED OVER TO OWNER

FLOOR PLAN DEMOLITION LEGEND

	EXISTING WALL TO REMAIN
	EXISTING DOOR AND FRAME TO REMAIN
	EXISTING WINDOW TO REMAIN
	WALL TO BE REMOVED AND DISPOSED OF
	EXISTING DOOR AND FRAME TO BE REMOVED AND DISPOSED OF
	EXISTING WINDOW AND FRAME TO BE REMOVED AND DISPOSED OF
	PORTION OF EXISTING ROOF TO BE REMOVED AND DISPOSED OF

KEY PLAN

AREA OF WORK



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CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

REGISTERED ARCHITECT SAVERIO J. BELFIORE STATE OF NEW YORK 033063

SAVERIO J. BELFIORE, R.A. Exp. Date
PROFESSIONAL ARCHITECT Lic. No. 033063

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT G GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

PARTIAL SECOND FLOOR DEMOLITION PLAN, ROOF PLAN, NOTES, AND LEGENDS

DRAWING No.

AD 112.00

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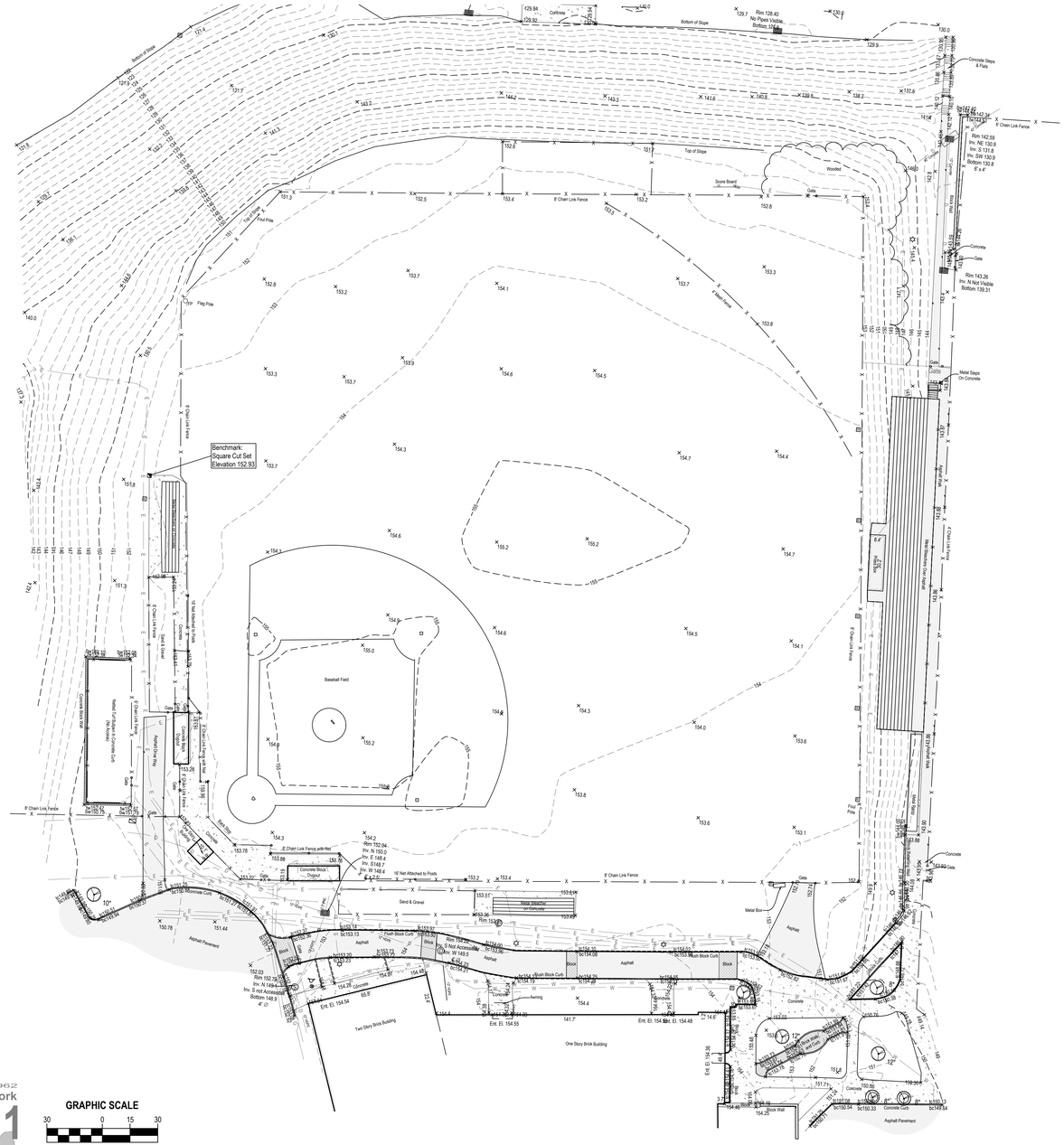
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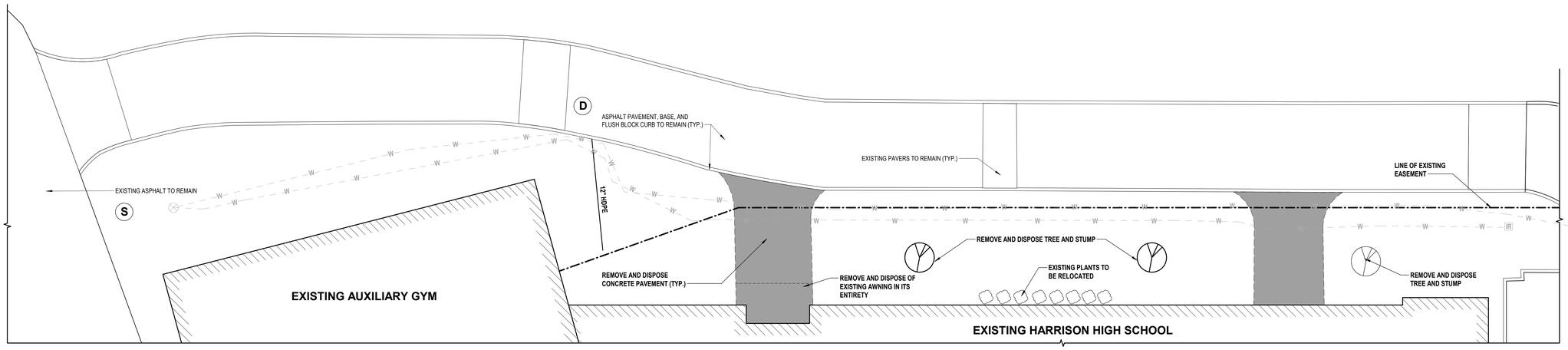
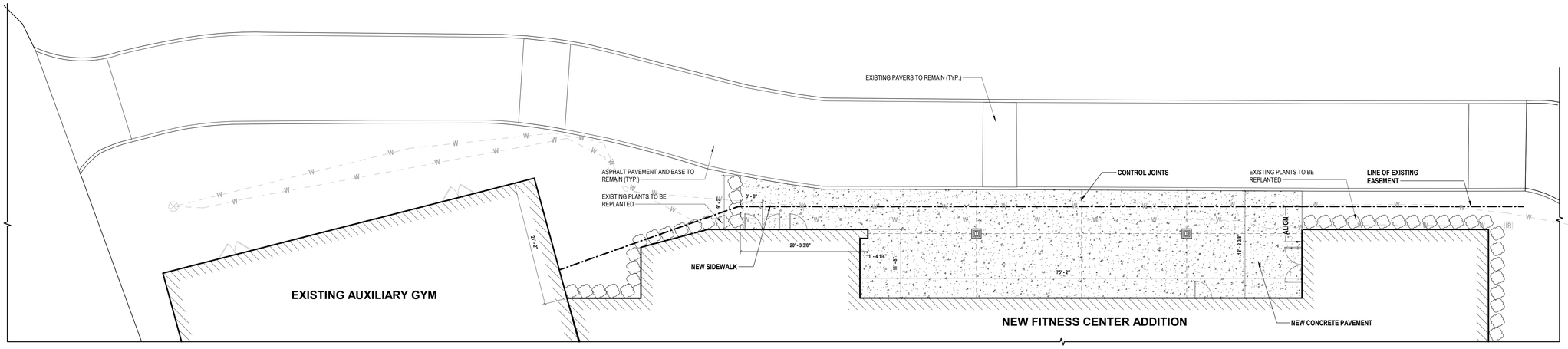
Square Cut Set
Elevation 152.93
Baseball Field
Bottom of Slope
Top of Slope
Woodline
Rim 128.40
No Pipes Visible
Bottom 124.40
Rim 142.59
Inv. NE 130.9
Inv. S 131.8
Inv. SW 130.9
Bottom 130.8
6" x 4"
Rim 143.26
Inv. N Not Visible
Bottom 139.31
Rim 152.04
Inv. N 150.0
Inv. E 148.4
Inv. S148.7
Inv. W 148.4
6" x 6"
Rim 152.79
Inv. N 149.4
Inv. S not Accessible
Bottom 148.9
4" x 0
Rim 152.03
Inv. W not Accessible
Bottom 149.5
4" x 0
Concrete Steps
6 Rails
Metal Steps
On Concrete
Concrete Ramp
Metal Railing
Metal Railing
Metal Railing



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



2 Site Construction Plan
SCALE: 1/8" = 1'-0"

SITE DEMOLITION NOTES

1. REPORT ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS TO THE ENGINEER IN WRITING IMMEDIATELY.
2. UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FOR DESIGN PURPOSES ONLY. PROVIDE FOR CONSTRUCTION MARKOUT AND LOCATE EXISTING UNDERGROUND UTILITIES. NO EXCAVATION CAN COMMENCE UNTIL UTILITY DOCUMENTATION HAS BEEN COMPLETED.
3. AFTER MARKOUT AND PRIOR TO DISTURBING THE SITE, UNCOVER ALL SUBSURFACE UTILITIES AND STRUCTURES WITHIN LIMITS OF DISTURBANCE TO CONFIRM THEIR LOCATION AND DEPTH.
4. NO COMPENSATION WILL BE MADE FOR ANY INCONVENIENCE CAUSED BY ENCOUNTERING UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN, OR ARE INACCURATELY SHOWN ON THE PLANS.
5. REPAIR ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONTRACTOR OPERATIONS IMMEDIATELY AT NO COST TO OWNER.
6. REPAIR ANY DAMAGE TO EXISTING SITE FEATURES SCHEDULED TO REMAIN RESULTING FROM CONTRACTOR OPERATIONS AT NO COST TO OWNER.
7. LOCATE ALL COMPONENTS OF ANY EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION AND PROTECT THROUGHOUT THE DURATION OF THE CONTRACT. REPAIR ALL DAMAGED COMPONENTS OUT OF THE IRRIGATION ALLOWANCE.
8. SAWCUT CONCRETE PAVEMENT BACK TO NEAREST EXPANSION/CONTROL JOINT.
9. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
10. INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ANY GROUND DISTURBANCE.
11. DELINEATE THE LIMITS OF CLEARING AND REVIEW WITH THE OWNER PRIOR TO COMMENCING WORK.
12. NOTIFY OWNER AND ENGINEER IMMEDIATELY IN WRITING WHEN UNKNOWN STRUCTURES OR SUSPECTED HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED PRIOR TO REMOVAL OR DISTURBANCE.
13. TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES, AND PROVIDE TEMPORARY MEASURES FOR THE PROTECTION AND SAFETY OF THE PUBLIC UNTIL FINAL ACCEPTANCE BY THE OWNER.
14. BACKFILL ALL VOIDS RESULTING FROM THE REMOVAL OF EXISTING SITE FEATURES. BACKFILL TO BE SOIL, FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.

LEGEND

1. INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
2. NOTIFY THE OWNER AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
4. PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL, AND DRIVEWAY/STREET CLEANING TO THE SATISFACTION OF THE OWNER.
5. DURING ALL NON-WORKING HOURS, STORE ALL EQUIPMENT AND MATERIALS WITHIN AN AREA DESIGNATED BY THE OWNER AT THE PROJECT SITE.
6. ALL CURB DIMENSIONS SHOWN REFER TO THE FACE OF CURB.
7. ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
8. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE INTERRUPTION TO THE OWNER'S OPERATIONS.
9. RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION. RESTORE TO NEW CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
10. RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 6 INCHES OF TOPSOIL AND HYDROSEED.
11. REMOVE ALL ASPHALT FROM EXISTING CASTINGS.
12. SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT ASPHALT CEMENT.

LEGEND

	EXISTING CURB
	CONCRETE CONTROL JOINTS
	EXISTING CONCRETE TO BE DEMOLISHED
	CONCRETE PAVEMENT

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CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • RIGOR • ADAPTABILITY — HARRISON CENTRAL SCHOOL DISTRICT — HCSD

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

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CONTRACT G GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

SITE PLAN

DRAWING No.

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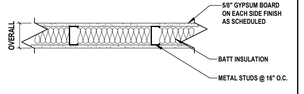
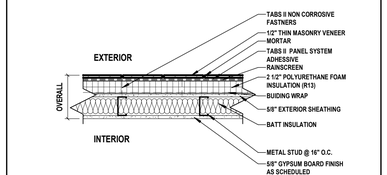


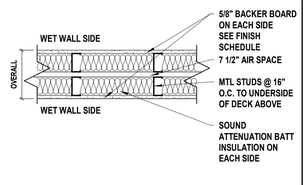
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
1A	4 7/8"	3 5/8"	-	-	-	-
1B	7 1/4"	6"	-	-	-	-
1C	7 7/8"	6"	-	-	-	ADDITIONAL GYP LAYER ON INT FACE

1 Metal Stud Partition
Interior Partition — H2M Ref # MI-131



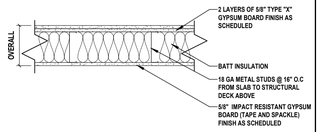
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	INSULATION	COMMENTS
2A	10 1/4"	6"	-	-	-	2.5"	
2B	12 1/4"	8"	-	-	-	2.5"	
2C	10 1/4"	6"	2HR	-	-	2.5"	

2 Metal Stud Thin Brick Veneer
Exterior Partition — H2M Ref # ME-032



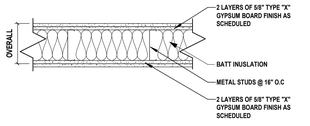
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
3	1'-4"	3 5/8"	-	-	-	TILE FINISH NOT SHOWN FOR CLARITY

3 Stud Double Wall
Interior Partition — H2M Ref # MI-139



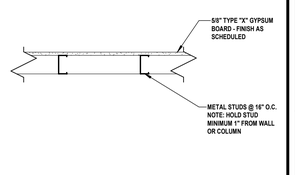
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
4	7 7/8"	6"	1 HR	U419	55	-

4 1 HR Metal Stud Partition
Interior Partition — H2M Ref # MI-134



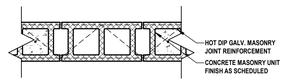
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
5	7 7/8"	6"	2 HR	U419	-	FIRE WALL

5 2 HR Metal Stud Partition
Interior Partition — H2M Ref # MI-134



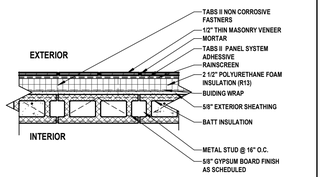
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
6A	2 1/4"	1 5/8"	-	-	-	-
6B	4 1/4"	3 5/8"	-	-	-	-
6C	6 5/8"	6"	-	-	-	-

6 Metal Stud Partition
Interior Partition — H2M Ref # MI-131



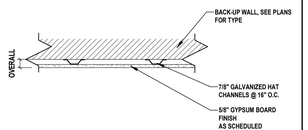
WALL TYPE	OVERALL DIMENSIONS	CMU SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
7A	5 5/8"	5 5/8"	2HR	-	-	-
7B	7 5/8"	7 5/8"	2HR	-	-	-
7C	7 5/8"	5 5/8"	2HR	-	-	ADD 2" HAT CHANNELS 16" O.C.

7 2 HR Masonry Wall
Interior Partition — H2M Ref # CE-003



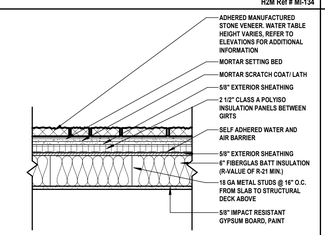
WALL TYPE	OVERALL DIMENSIONS	CMU SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
8	5 5/8"	5 5/8"	2 HR	-	-	-

8 CMU Thin Brick Veneer
Exterior Partition — H2M Ref # ME-032



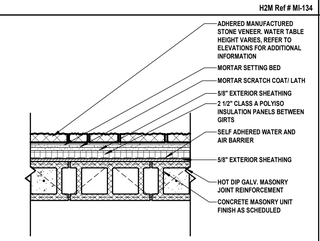
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
3	1 1/2"	-	-	-	-	-

9 Hat Channel Partition
Interior Partition — H2M Ref # MI-142



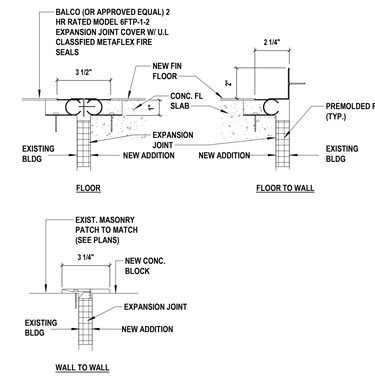
WALL TYPE	OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
10	1'-1 1/8"	6"	2 HR	U419	-	-

10 Metal Stud Exterior Partition
Exterior Partition at Water table



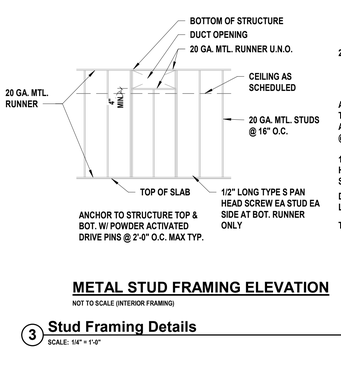
WALL TYPE	OVERALL DIMENSIONS	CMU SIZE	FIRE RATING	UL No.	STC RATING	COMMENTS
11	1'-7/8"	6"	2 HR	U419	-	-

11 CMU Exterior Partition
Exterior Partition at Water table

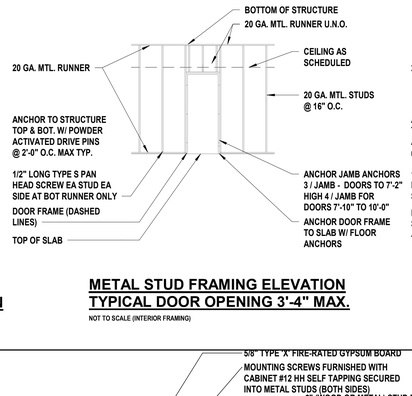


1 Control Joint
SCALE: 1 1/2" = 1'-0"

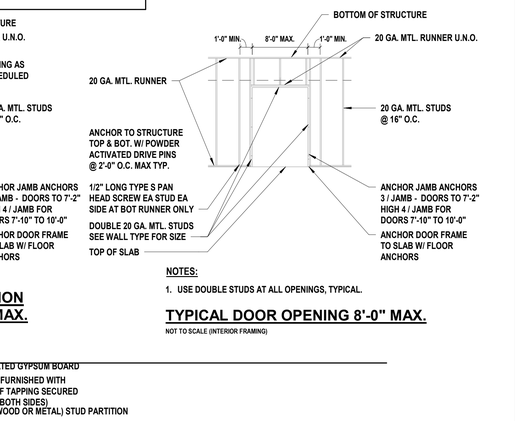
2 Expansion Joint Details
SCALE: 3" = 1'-0"



METAL STUD FRAMING ELEVATION
NOT TO SCALE (INTERIOR FRAMING)



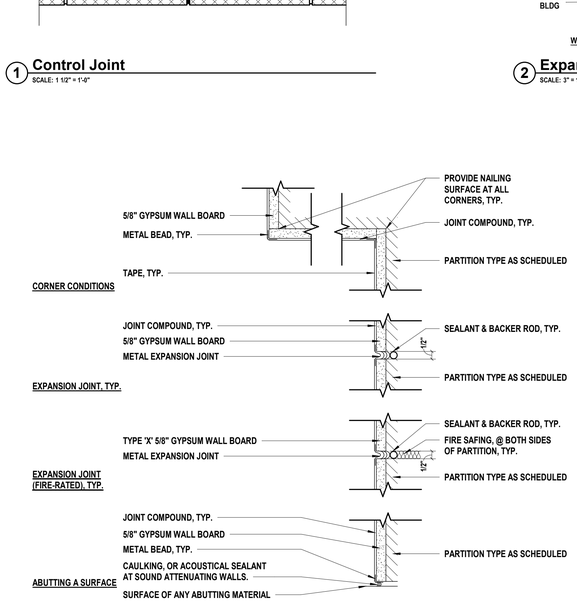
METAL STUD FRAMING ELEVATION TYPICAL DOOR OPENING 3'-4" MAX.
NOT TO SCALE (INTERIOR FRAMING)



NOTES:
1. USE DOUBLE STUDS AT ALL OPENINGS, TYPICAL.

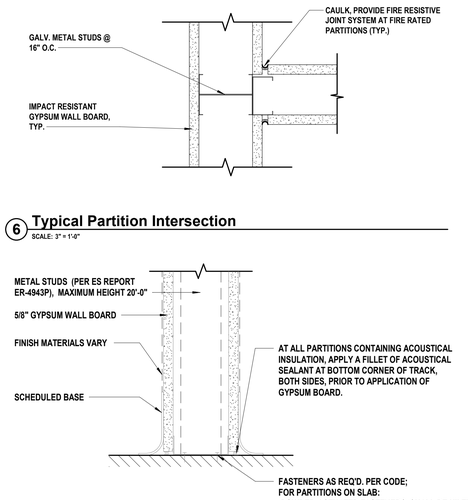
TYPICAL DOOR OPENING 8'-0" MAX.
NOT TO SCALE (INTERIOR FRAMING)

3 Stud Framing Details
SCALE: 1/4" = 1'-0"



INTERIOR PARTITIONS TYPICAL GYPSUM BOARD DETAILS
NOT TO SCALE

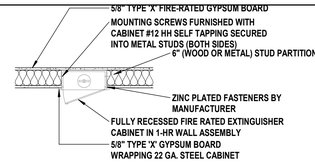
4 Interior Partition Details
SCALE: 3" = 1'-0"



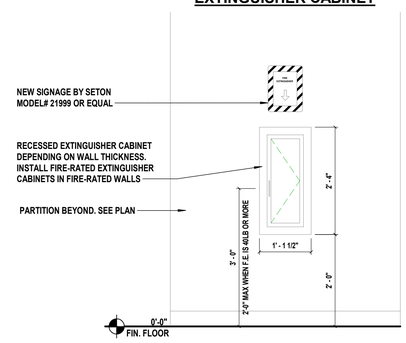
6 Typical Partition Intersection
SCALE: 3" = 1'-0"

PARTITION TO FLOOR CONNECTION
NOT TO SCALE

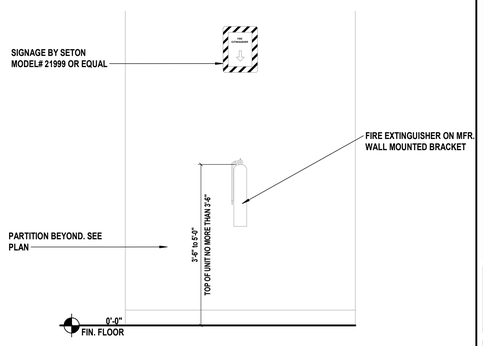
5 Interior Partition to Floor
SCALE: 3" = 1'-0"



PLAN DETAIL @ FIRE EXTINGUISHER CABINET



ELEVATION @ FIRE EXTINGUISHER WITH/ CABINET



ELEVATION @ FIRE EXTINGUISHER

FIRE EXTINGUISHER NOTES:
1. REFER TO EGRESS FLOOR PLANS FOR LOCATIONS.
2. FURNISH AND INSTALL FIRE EXTINGUISHER IN ACCORDANCE WITH ACCESSIBILITY GUIDELINES.
3. CONTRACTOR TO PROVIDE ARCHITECT WITH EXTINGUISHER CABINET SCHEDULE FOR REVIEW INDICATING LOCATION AND SELECTED CORRESPONDING MODEL NUMBER OF CABINET.
4. FIRE EXTINGUISHER AND SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE AND LOCAL FIRE MARSHALL.

Fire Extinguisher Details
SCALE: 3/4" = 1'-0"

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Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

STATUS
FINAL BID DOCUMENT

SHEET TITLE
PARTITION TYPES AND UL LISTINGS

DRAWING No.
A 100.00

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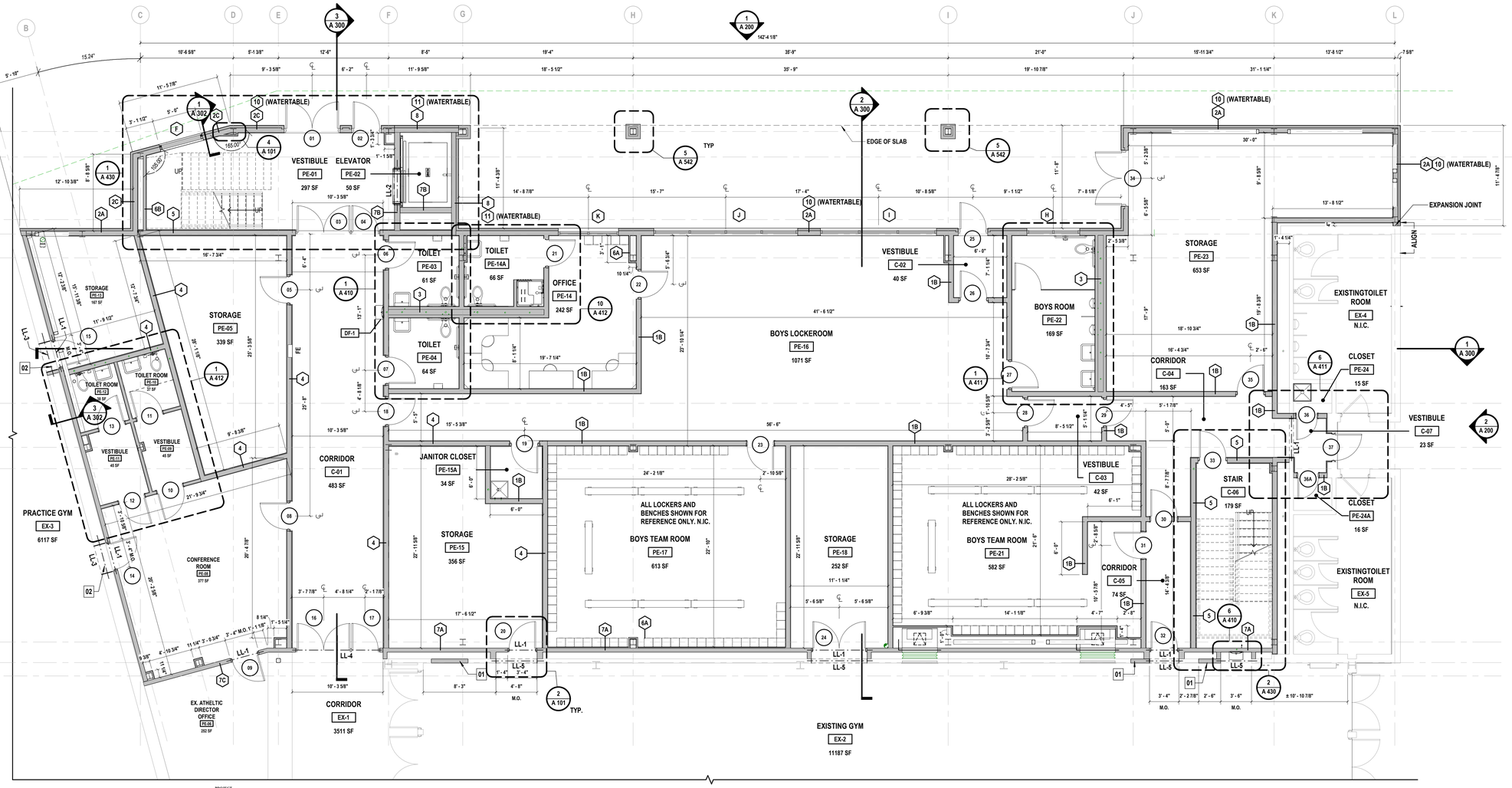


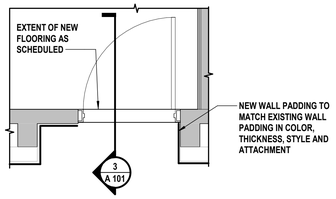
1 Partial First Floor Construction Plan

SCALE: 3/16" = 1'-0"

NOTE: ALL DIMENSIONS ON THIS PLAN ARE MEASURED FROM STUD TO STUD

GENERAL WORK NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY REGULATIONS.
2. BUILDING DIMENSIONS AND SQUARE FOOTAGE SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS FOR QUANTITY MATERIALS PRIOR TO START OF WORK.
3. PROVIDE AND TURN OVER TO THE DISTRICT ALL EXTRA MATERIALS IN THE QUANTITIES INDICATED WITHIN THE SPECIFICATIONS.
4. COORDINATE THE WORK REQUIRED ON THESE DRAWINGS WITH THE WORK OF ALL OTHER TRADES AND SPECIFICATIONS.
5. 'G' CONTRACTOR SHALL COORDINATE WITH 'H', 'P' AND 'E' CONTRACTORS REGARDING INSTALLATION OF BELOW GRADE ITEMS AS FOLLOWS:
   - A. 'G' CONTRACTOR SHALL PROVIDE ACCESS FOR WORK BY OTHERS WITHIN ALL AREAS OF WORK.
   - B. 'H', 'P', AND 'E' CONTRACTORS SHALL PERFORM WORK IN AND BELOW ALL WALLS AND FLOOR SLABS AS REQUIRED.
   - C. 'H', 'P', AND 'E' CONTRACTORS SHALL BACKFILL AND COMPACT EACH AREA OF WORK FOR THEIR RESPECTIVE TRADE(S).
   - D. 'G' CONTRACTOR SHALL INSPECT BACKFILL AND COMPACTION PRIOR TO INSTALLATION OF NEW SLAB AND NOTIFY OWNER/ARCHITECT OF ANY CONDITION OR DISCREPANCY PRIOR TO START OF FLOOR SLAB INSTALLATION AND/OR CONTINUATION OF MASONRY WALL CONSTRUCTION.
6. ACCOMMODATE THE CONSTRUCTION TO ACCEPT ALL PIPING, CONDUITS, EQUIPMENT, PANELS, ETC., EITHER SPECIFIED OR DETAILED TO BE RECESSED OR CONCEALED IN MASONRY, AS REQUIRED BY THIS CONTRACT OR CONTRACTS "H", "P" AND "E".
7. ALL ITEMS DETAILED OR SPECIFIED TO RUN IN OR ATTACHED TO WALLS AND CEILINGS ARE TO BE CONCEALED OR RECESSED U.O.N.
8. REFER TO ELEVATIONS FOR MASONRY EXPANSION JOINT LOCATIONS.
9. SEE SLAB PLAN FOR CONTROL AND EXPANSION JOINT LOCATIONS.
10. FOR ALL WINDOWS, REFER TO DRAWING A510 FOR ADDITIONAL INFORMATION.
11. FOR ALL WALL TYPES, REFER TO DRAWING A001 FOR ADDITIONAL INFORMATION.
12. ALL MASONRY WALLS ARE NOTED AS NOMINAL DIMENSIONS. IN ALL LOCATIONS WHERE A CORNER IS EXPOSED, CONTRACTOR SHALL PROVIDE A BULLNOSE FINISH.
13. APPLY A CLEAR WATER REPELLANT TO ALL EXTERIOR MASONRY SURFACES.
14. REFER TO FINISH SCHEDULE AND REFLECTED CEILING PLAN FOR CEILINGS HEIGHTS ABOVE FINISH FLOOR.
15. FOR ALL TOILET INFORMATION, REFER TO DRAWING A410 FOR ADDITIONAL INFORMATION.
16. SEE THE G101 SHEETS FOR LOCATIONS OF FIRE RATED WALLS.

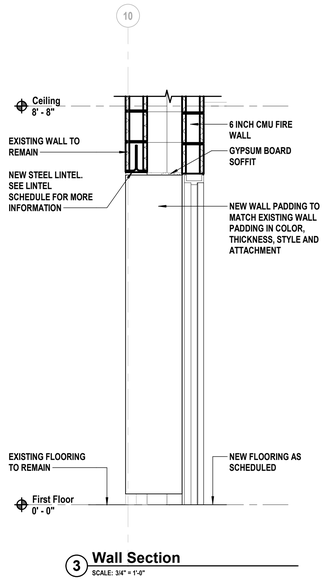


2 Enlarged Storage Room Entrance Plan

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

LEGEND

OFFICE / XXX / 150 SF	ROOM/SPACE DESIGNATION TAG WITH ROOM NO. + SQ. FOOTAGE
	EXISTING WALL TO REMAIN
	NEW WALL CONSTRUCTION
	EXISTING WINDOW TO REMAIN
A	WINDOW TYPE INDICATOR
#	NEW WALL TYPE INDICATOR - SEE WALL TYPES ON SHEET A100 FOR ADDITIONAL INFORMATION
#	NEW DOOR DESIGNATION - REFER TO DOOR SCHEDULE FOR INFORMATION
	EXISTING DOOR AND FRAME TO REMAIN
XX / XXXX / XX — A101	ELEVATION INDICATOR
1 / A101	SECTION INDICATOR
FE	FIRE EXTINGUISHER CABINET LOCATION - REFER TO SPECIFICATIONS. PROVIDE WALL OPENING AND SOUND BACKUP..

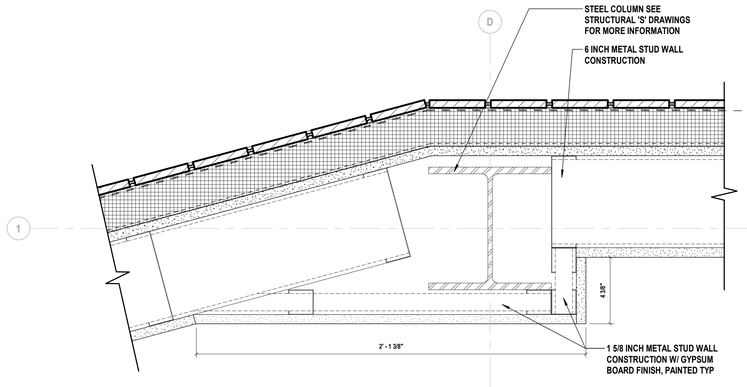


3 Wall Section

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

CONSTRUCTION KEYNOTES

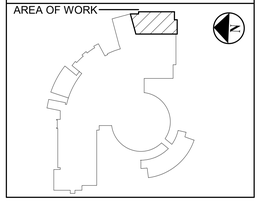
01	INFILL EXISTING DOOR OPENING. PATCH AND FILL TO MATCH EXISTING FINISHES AND MATERIALS.



4 Enlarged Plan Detail

SCALE: 3" = 1'-0"

KEY PLAN



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CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

SAVERIO J. BELFIORE, R.A. — PROFESSIONAL ARCHITECT Lic. No. 033063 — Exp. Date

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT G GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

PARTIAL FIRST FLOOR CONSTRUCTION PLAN, NOTES AND LEGENDS

DRAWING No.

A 101.00

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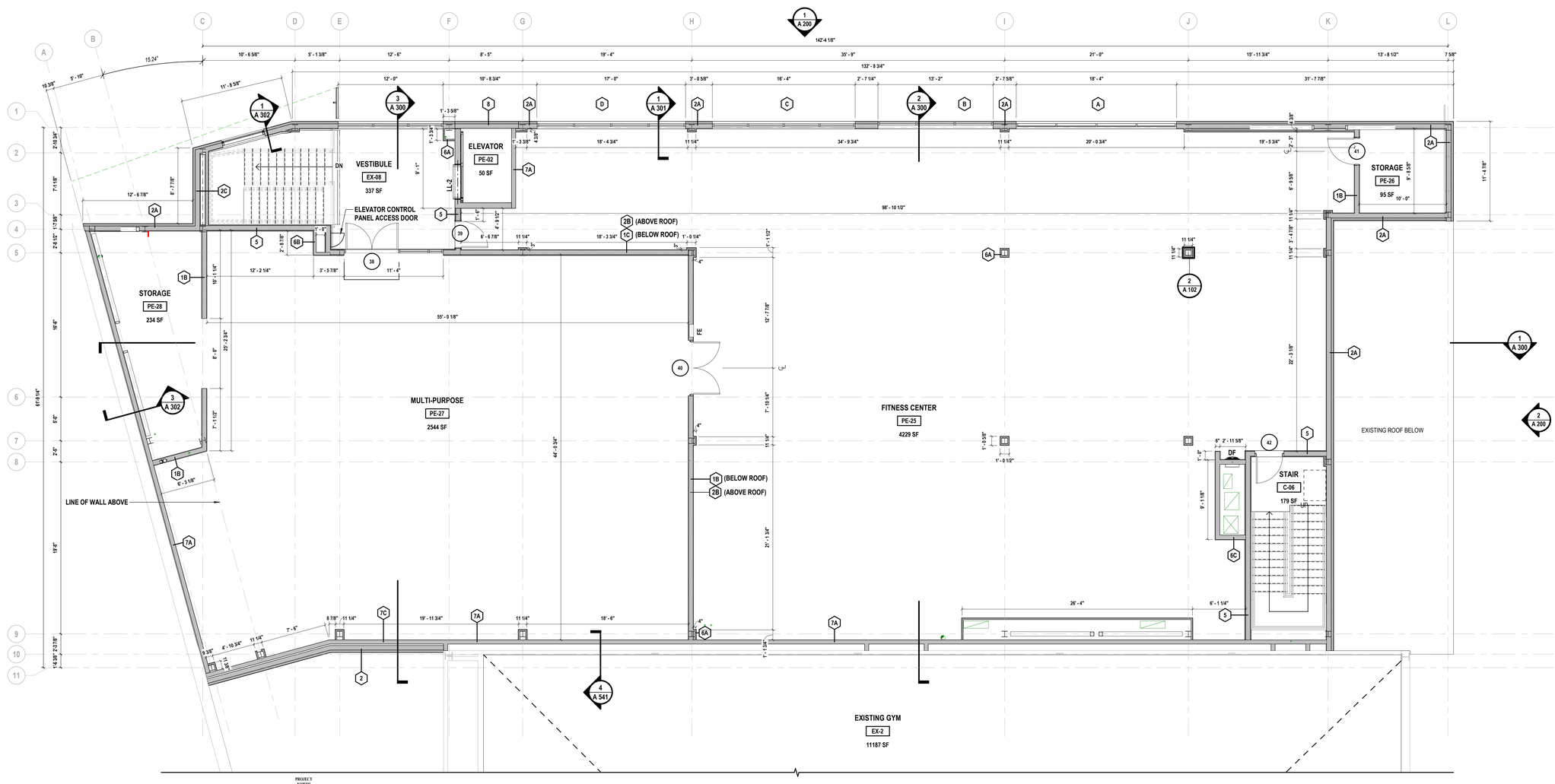

1 Partial Second Floor Construction Plan

SCALE: 3/16" = 1'-0"

NOTE: ALL DIMENSIONS ON THIS PLAN ARE MEASURED FROM STUD TO STUD

GENERAL WORK NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY REGULATIONS.
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3. PROVIDE AND TURN OVER TO THE DISTRICT ALL EXTRA MATERIALS IN THE QUANTITIES INDICATED WITHIN THE SPECIFICATIONS.
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   - D. 'G' CONTRACTOR SHALL INSPECT BACKFILL AND COMPACTION PRIOR TO INSTALLATION OF NEW SLAB AND NOTIFY OWNER/ARCHITECT OF ANY CONDITION OR DISCREPANCY PRIOR TO START OF FLOOR SLAB INSTALLATION AND/OR CONTINUATION OF MASONRY WALL CONSTRUCTION.
6. ACCOMMODATE THE CONSTRUCTION TO ACCEPT ALL PIPING, CONDUITS, EQUIPMENT, PANELS, ETC.. EITHER SPECIFIED OR DETAILED TO BE RECESSED OR CONCEALED IN MASONRY, AS REQUIRED BY THIS CONTRACT OR CONTRACTS "H", "P" AND "E".
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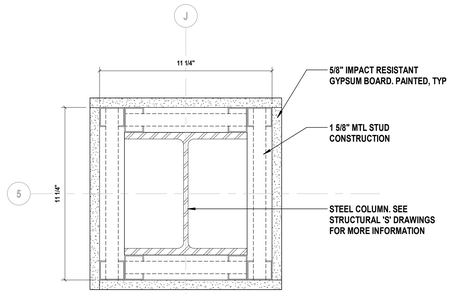
8. REFER TO ELEVATIONS FOR MASONRY EXPANSION JOINT LOCATIONS.
9. SEE SLAB PLAN FOR CONTROL AND EXPANSION JOINT LOCATIONS.
10. FOR ALL WINDOWS, REFER TO DRAWING A510 FOR ADDITIONAL INFORMATION.
11. FOR ALL WALL TYPES, REFER TO DRAWING A001 FOR ADDITIONAL INFORMATION.
12. ALL MASONRY WALLS ARE NOTED AS NOMINAL DIMENSIONS. IN ALL LOCATIONS WHERE A CORNER IS EXPOSED, CONTRACTOR SHALL PROVIDE A BULLNOSE FINISH.
13. APPLY A CLEAR WATER REPELLANT TO ALL EXTERIOR MASONRY SURFACES.
14. REFER TO FINISH SCHEDULE AND REFLECTED CEILING PLAN FOR CEILINGS HEIGHTS ABOVE FINISH FLOOR.
15. FOR ALL TOILET INFORMATION, REFER TO DRAWING A410 FOR ADDITIONAL INFORMATION.
16. SEE THE G101 SHEETS FOR LOCATIONS OF FIRE RATED WALLS.

LEGEND

OFFICE / XXX / 150 SF — ROOM/SPACE DESIGNATION TAG WITH ROOM NO. + SQ. FOOTAGE	# — NEW DOOR DESIGNATION - REFER TO DOOR SCHEDULE FOR INFORMATION
EXISTING WALL TO REMAIN	EXISTING DOOR AND FRAME TO REMAIN
NEW WALL CONSTRUCTION	XXX / XXX / XXX / A101 — ELEVATION INDICATOR
EXISTING WINDOW TO REMAIN	1 / A101 — SECTION INDICATOR
A — WINDOW TYPE INDICATOR	FE — FIRE EXTINGUISHER CABINET LOCATION - REFER TO SPECIFICATIONS. PROVIDE WALL OPENING AND SOUND BACKUP..
# — NEW WALL TYPE INDICATOR - SEE WALL TYPES ON SHEET A100 FOR ADDITIONAL INFORMATION	



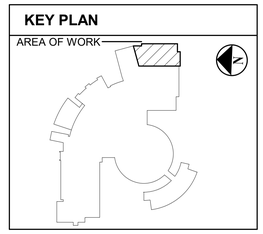
CONSTRUCTION KEYNOTES

Second Floor Column Enclosure

01 INFILL EXISTING DOOR OPENING. PATCH AND FILL TO MATCH EXISTING FINISHES AND MATERIALS.

KEY PLAN

AREA OF WORK



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CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

PARTIAL SECOND FLOOR CONSTRUCTION PLAN, NOTES AND LEGENDS

DRAWING No.

A 102.00

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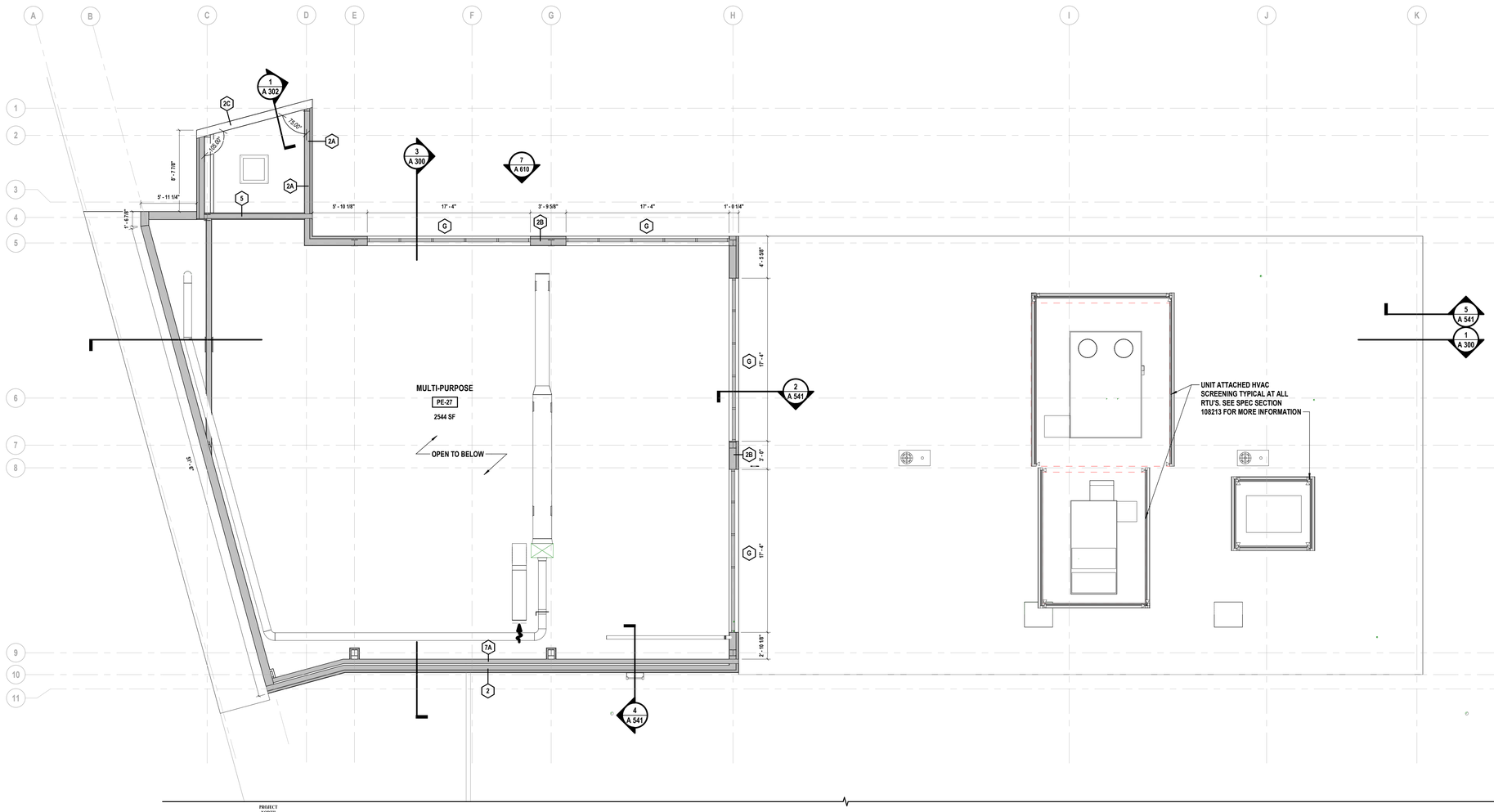

1 Clerestory Floor Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

GENERAL WORK NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY REGULATIONS.
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15. FOR ALL TOILET INFORMATION, REFER TO DRAWING A410 FOR ADDITIONAL INFORMATION.
16. SEE THE G101 SHEETS FOR LOCATIONS OF FIRE RATED WALLS.

LEGEND

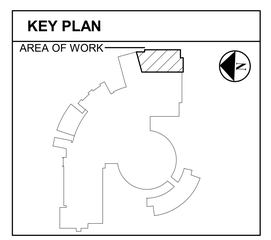
OFFICE / XXX / 150 SF — ROOM/SPACE DESIGNATION TAG WITH ROOM NO. + SQ. FOOTAGE	# — NEW DOOR DESIGNATION - REFER TO DOOR SCHEDULE FOR INFORMATION
EXISTING WALL TO REMAIN	EXISTING DOOR AND FRAME TO REMAIN
NEW WALL CONSTRUCTION	XX/XX/XX/XX/XX/XX — A101 — ELEVATION INDICATOR
EXISTING WINDOW TO REMAIN	
A — WINDOW TYPE INDICATOR	1 / A101 — SECTION INDICATOR
# — NEW WALL TYPE INDICATOR - SEE WALL TYPES ON SHEET A100 FOR ADDITIONAL INFORMATION	FE — FIRE EXTINGUISHER CABINET LOCATION - REFER TO SPECIFICATIONS. PROVIDE WALL OPENING AND SOUND BACKUP..

CONSTRUCTION KEYNOTES

01	INFILL EXISTING DOOR OPENING. PATCH AND FILL TO MATCH EXISTING FINISHES AND MATERIALS.

KEY PLAN

AREA OF WORK



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CONSULTANTS:

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REGISTERED ARCHITECT SAVERIO J. BELFIORE STATE OF NEW YORK 033063

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CLIENT

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CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

PARTIAL CLERESTORY CONSTRUCTION PLAN, NOTES AND LEGENDS

DRAWING No.

A 103.00

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1 Partial First Floor Reflected Ceiling Plan

SCALE: 3/16" = 1'-0"

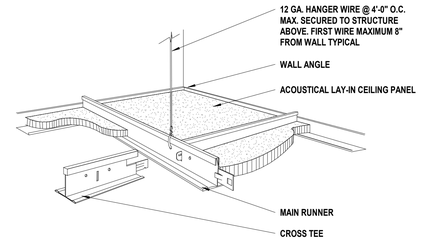
NOTE: 1. CONTRACTOR TO PROVIDE (10) TEN CEILING MOUNTED SPEAKERS WIRED BACK TO STORAGE ROOM
2. CONTRACTOR TO PROVIDE (4) FOUR WALL MOUNTED SPEAKERS INTERCONNECTED BACK TO THE PA SYSTEM
3. ALL LOCATIONS ARE TO BE DETERMINED BY OWNER

REFLECTED CEILING PLAN LEGEND

- OFFICE / 10001A — ROOM/SPACE DESIGNATION AND CEILING TYPE TAG
- 2'x2' ACOUSTICAL CEILING GRID AND PANELS
- ALUMINUM SOFFIT
- GYPSUM BOARD SOFFIT
- LIGHT FIXTURES BY CONTRACT 'E'. REFER TO 'E' DRAWINGS
- HVAC DIFFUSERS/RETURNS BY CONTRACT 'H'. REFER TO 'H' DRAWINGS.
- EXIT SIGNAGE BY CONTRACT 'E'. REFER TO 'E' DRAWINGS
- S, OS, RC, CM, VS — ELECTRICAL ITEMS BY CONTRACT 'E' REFER TO 'E' DRAWINGS

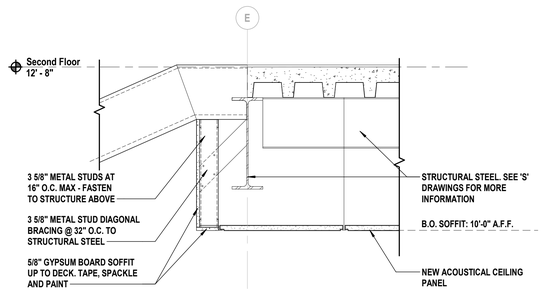
GENERAL REFLECTED CEILING PLAN

1. BUILDING DIMENSIONS AND SQUARE FOOTAGES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS FOR QUANTITY MATERIALS PRIOR TO START OF WORK.
2. CONTRACTOR SHALL VERIFY ALL CEILING HEIGHTS AND HEIGHTS TO EXPOSED STRUCTURAL MEMBERS IN COORDINATION WITH ALL OTHER WORK PERFORMED UNDER THE CONTRACT DOCUMENTS.
3. ALL CEILING HEIGHTS INDICATED ON THIS DRAWING INDICATE A DISTANCE FROM DATUM ELEVATION OF [0'-0"].
4. CONTRACTOR SHALL COORDINATE ALL THE WORK REQUIRED ON THIS DRAWING WITH ALL ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AND SPECIFICATIONS.
5. ACOOMMODATE THE CONSTRUCTION TO ACCEPT ALL PIPING, CONDUITS, EQUIPMENT, ETC., EITHER SPECIFIED OR DETAIELD TO BE RECESSED OR CONCEALED IN MASONRY WALLS AS REQUIRED BY THIS CONTRACT. COORDINATE LOCATION OF ANY RECESSED OR CONSEALED ITEMS.
6. SUSPENDED CEILING SYSTEM SHALL BE CENETERED WITHIN THE ROOM IN BOTH DIRECTIONS UNLESS SPECIFICALLY NOTED DIFFERENTLY ON THE DRAWINGS.



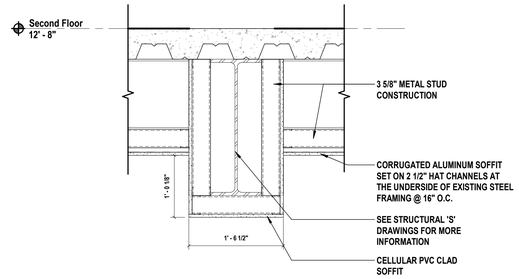
Typical Acoustical Ceiling Panel Detail

SCALE: 3" = 1'-0"



3 Soffit Detail

SCALE: 1" = 1'-0"

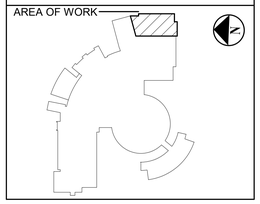


2 Soffit Detail

SCALE: 1" = 1'-0"

KEY PLAN

AREA OF WORK



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PARTIAL FIRST FLOOR REFLECTED CEILING PLAN, NOTES, AND LEGENDS (CONTRACT G/E)

DRAWING No.

A 121.00

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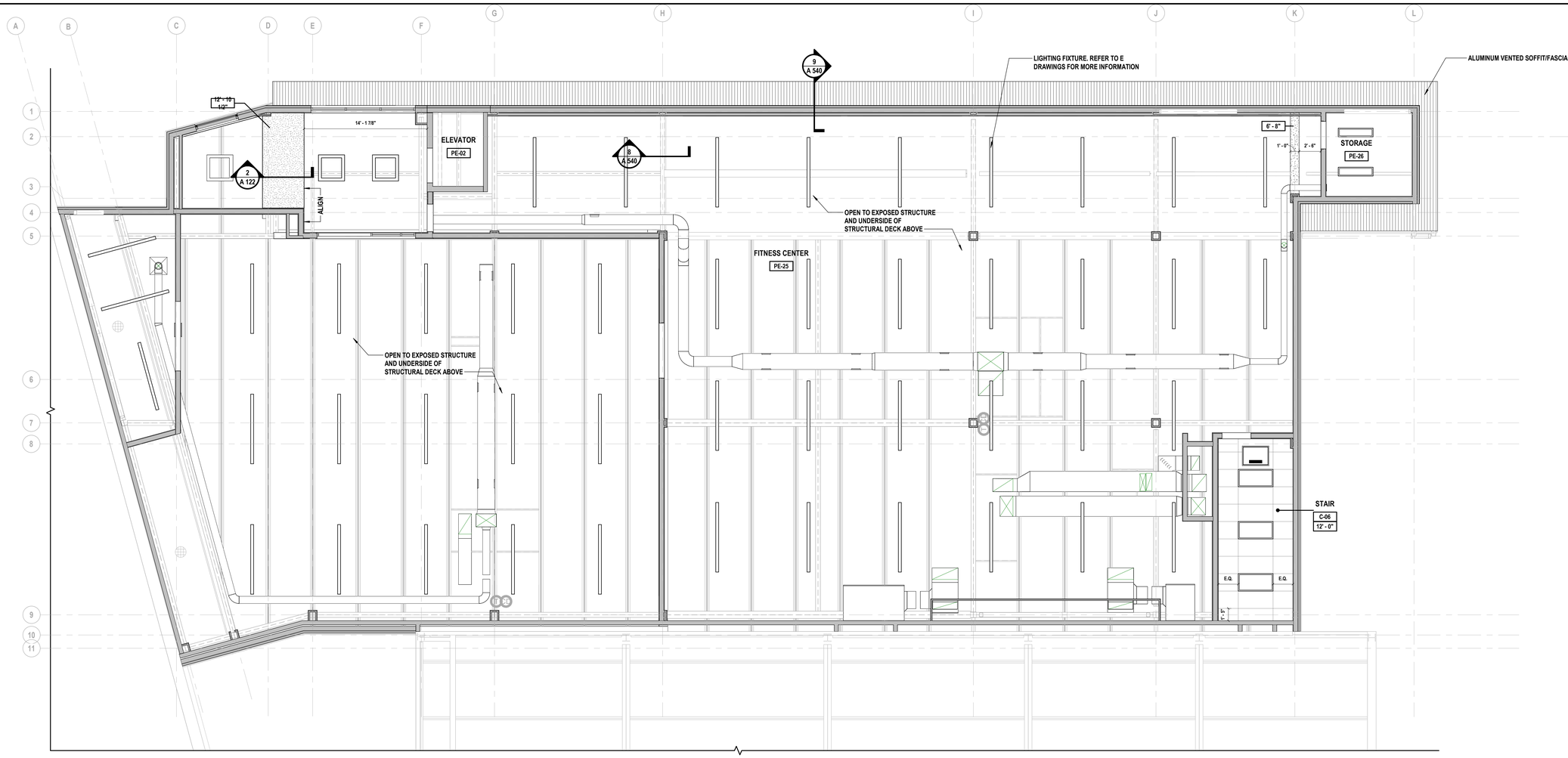


1 Partial Second Floor Reflected Ceiling Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

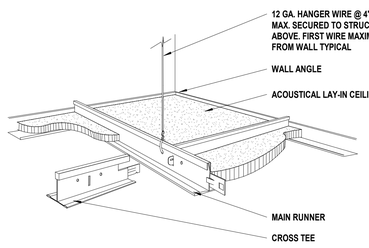
NOTE: 1. CONTRACTOR TO PROVIDE (10) TEN CEILING MOUNTED SPEAKERS WIRED BACK TO STORAGE ROOM
2. CONTRACTOR TO PROVIDE (4) FOUR WALL MOUNTED SPEAKERS INTERCONNECTED BACK TO THE PA SYSTEM
3. ALL LOCATIONS ARE TO BE DETERMINED BY OWNER

REFLECTED CEILING PLAN LEGEND

OFFICE 10001A	ROOM/SPACE DESIGNATION AND CEILING TYPE TAG
	2'x2' ACOUSTICAL CEILING GRID AND PANELS
	ALUMINUM SOFFIT
	GYPSUM BOARD SOFFIT
	LIGHT FIXTURES BY CONTRACT 'E'. REFER TO 'E' DRAWINGS
	HVAC DIFFUSERS/RETURNS BY CONTRACT 'H'. REFER TO 'H' DRAWINGS.
	EXIT SIGNAGE BY CONTRACT 'E'. REFER TO 'E' DRAWINGS
S OS RC CM VS	ELECTRICAL ITEMS BY CONTRACT 'E' REFER TO 'E' DRAWINGS

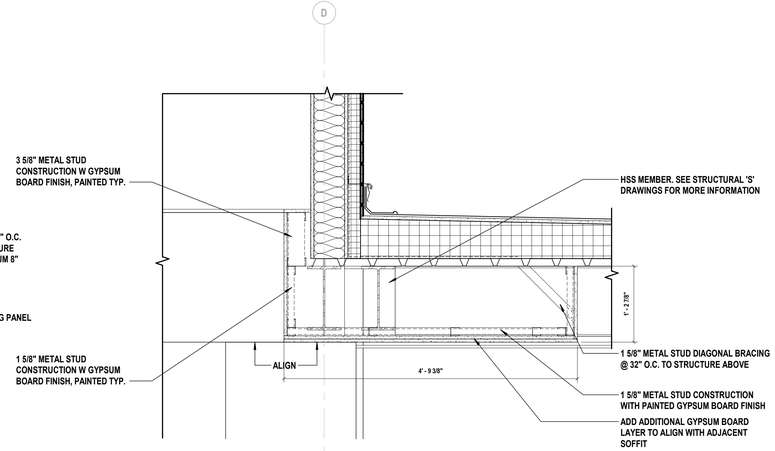
GENERAL REFLECTED CEILING PLAN

1. BUILDING DIMENSIONS AND SQUARE FOOTAGES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS FOR QUANTITY MATERIALS PRIOR TO START OF WORK.
2. CONTRACTOR SHALL VERIFY ALL CEILING HEIGHTS AND HEIGHTS TO EXPOSED STRUCTURAL MEMBERS IN COORDINATION WITH ALL OTHER WORK PERFORMED UNDER THE CONTRACT DOCUMENTS.
3. ALL CEILING HEIGHTS INDICATED ON THIS DRAWING INDICATE A DISTANCE FROM DATUM ELEVATION OF [0'-0"].
4. CONTRACTOR SHALL COORDINATE ALL THE WORK REQUIRED ON THIS DRAWING WITH ALL ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AND SPECIFICATIONS.
5. ACOMMODATE THE CONSTRUCTION TO ACCEPT ALL PIPING, CONDUITS, EQUIPMENT, ETC., EITHER SPECIFIED OR DETAIELD TO BE RECESSED OR CONCEALED IN MASONRY WALLS AS REQUIRED BY THIS CONTRACT. COORDINATE LOCATION OF ANY RECESSED OR CONSEALED ITEMS.
6. SUSPENDED CEILING SYSTEM SHALL BE CENETERED WITHIN THE ROOM IN BOTH DIRECTIONS UNLESS SPECIFICALLY NOTED DIFFERENTLY ON THE DRAWINGS.



Typical Acoustical Ceiling Panel Detail

SCALE: 3" = 1'-0"

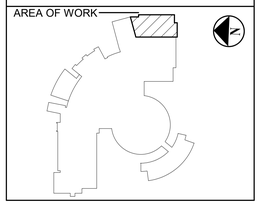


2 Soffit Detail

SCALE: 1" = 1'-0"

KEY PLAN

AREA OF WORK



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CONTRACT

CONTRACT G
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SHEET TITLE

PARTIAL SECOND FLOOR REFLECTED CEILING PLAN, NOTES, AND LEGENDS (CONTRACT G/E)

DRAWING No.

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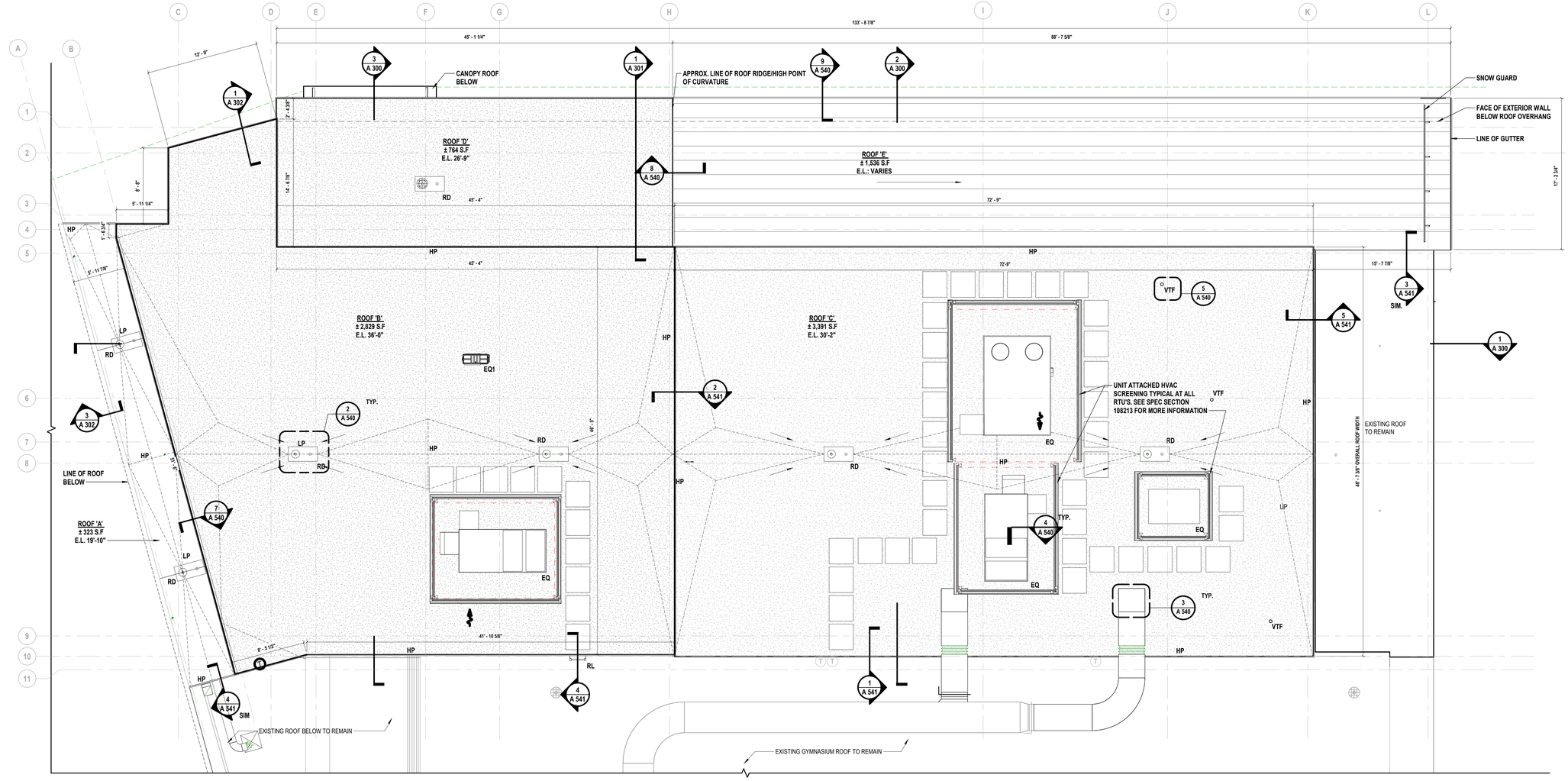

1 Partial Roof Construction Plan

SCALE: 3/16" = 1'-0"

PROJECT NORTH

GENERAL ROOFING NOTES

1. THIS DRAWING SERVES AS A LIST OF PRINCIPAL ROOFING ITEMS AND IS NOT A COMPLETE LIST OF EVERY ROOFING ITEM AND ACCESSORY. THIS DRAWING MUST BE COORDINATED WITH ALL OTHER DRAWINGS, ROOF DETAILS AND WITH ALL ITEMS SPECIFIED.
2. COORDINATE THE WORK REQUIRED ON THIS DRAWING WITH ALL STRUCTURAL, CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
3. COORDINATE EXACT LOCATIONS OF PENETRATIONS TO BE MADE IN ALL ROOF AREAS AND ROOF ASSEMBLIES.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO MAKE AND FLUSH ALL ROOF PENETRATIONS.
5. H-P-E CONTRACTORS SHALL FURNISH SLEEVES AND LOCATE ALL NECESSARY PENETRATIONS REQUIRED TO ACCOMMODATE ALL WORK DETAILED OR SPECIFIED FOR THEIR RESPECTIVE CONTRACT.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL FLASHING AND TERMINATIONS FOR ALL ROOF PENETRATIONS UNLESS OTHERWISE NOTED.
7. CONTRACT 'H' SHALL FURNISH ALL CURBS FOR EXHAUST FANS, AND HEATING/COOLING UNITS TO G.C. INSTALLATION OF ALL CURBS AND FLASHING INSTALLATIONS SHALL BE PERFORMED BY CONTRACT 'G'.
8. CONTRACT 'P' SHALL FURNISH ALL ROOF DRAINS TO G.C. ALL ROOF DRAINS SHALL BE INSTALLED BY CONTRACT 'G' IN COORDINATION WITH ROOFING WORK.
9. CONTRACT 'G' SHALL PROVIDE ALL TEMPORARY ROOF FLASHING WORK. IT IS THE RESPONSIBILITY OF CONTRACT 'G' TO MAINTAIN A WEATHER TIGHT ROOF AT ALL TIMES.
10. SEE SHEET A131 FOR ALL TYPICAL DETAILS.
11. ROOF SYSTEMS SHALL HAVE NO LESS THAN A SLOPE OF 1/4" PER FOOT.
12. PROVIDE CRICKETS BEHIND ALL ROOFING ITEMS/M.E.P. PENETRATIONS AND EQUIPMENT TO PROVIDE POSITIVE PITCH AND TO PREVENT PONDING.
13. A CERTIFIED INSTALLER MUST PERFORM ALL ROOFING WORK, AND A LETTER FROM EXISTING ROOFING MANUFACTURER MUST BE OBTAINED STATING THE EXISTING WARRANTY WILL REMAIN IN EFFECT.
14. CONTRACT G TO PROVIDE PITCH POCKETS AT LOCATIONS OF ALL DUNNAGE SUPPORTS, ETC.
15. H-P-E CONTRACTORS SHALL FURNISH SLEEVES AND LOCATE ALL MECHANICAL PENETRATIONS REQUIRED TO ACCOMMODATE ALL WORK DETAILED OR SPECIFIED FOR THEIR CONTRACT.
16. CONTRACT "G" SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE FOR ALL PARTITIONS OF THE ROOF, THROUGHOUT THE ENTIRE DURATION OF THE PROJECT.
17. REFER TO 'S' DRAWINGS FOR WIND UPLIFT INFORMATION.
18. CONTRACTOR SHALL PROVIDE SNOW GUARDS AT ALL LOCATIONS AS INDICATED ON THE CONSTRUCTION DRAWINGS. APPROXIMATE LAYOUT IS SHOWN, CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR AMOUNT OF ROWS AND DIMENSIONAL OFFSETS.

ROOFING LEGEND

	NEW EPDM ROOFING SYSTEM - SEE SHEET A-540.00 FOR ADDITIONAL INFORMATION
	NEW STANDING SEAM METAL ROOFING SYSTEM - SEE SHEET A-540.00 FOR ADDITIONAL INFORMATION
	INDICATES TAPER AND ROOF PITCH - 1/4" PER FOOT, MINIMUM, U.O.N.
RD	COMBINATION ROOF AND OVERFLOW DRAIN
V OR VTR	VENT THROUGH ROOF COORDINATE WITH CONTRACT 'P' FOR EXACT LOCATIONS
EQ	NEW ROOFTOP EQUIPMENT - BY CONTRACT 'M' (ACTUAL SIZE AND ORIENTATION OF COMPONENTS MAY VARY)
	WALKWAY PADS
RL	METAL LADDER
L.P.	LOW POINT
H.P.	HIGH POINT
	DIRECTION OF SLOPE

KEY PLAN

AREA OF WORK

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CONTRACT

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PARTIAL ROOF CONSTRUCTION PLAN, NOTES, AND LEGENDS

DRAWING No.

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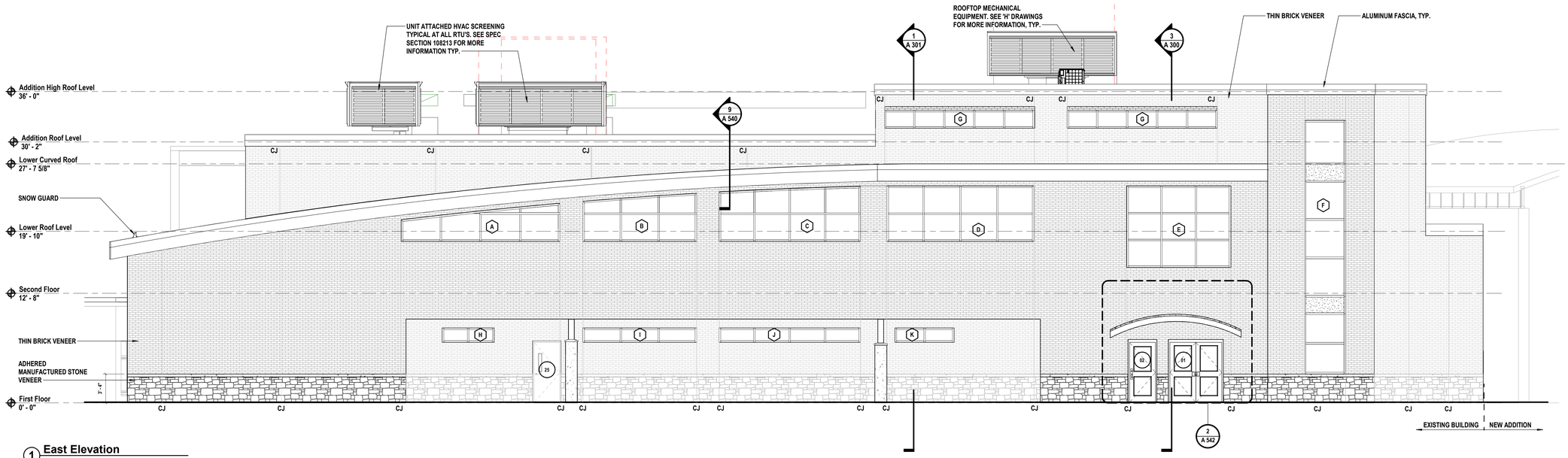
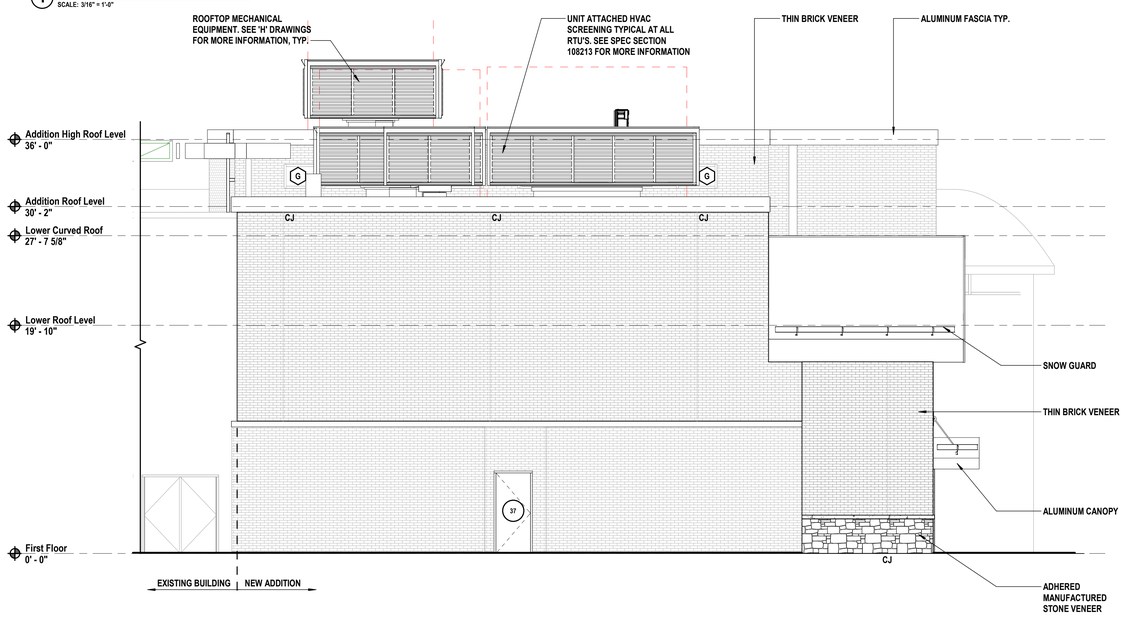
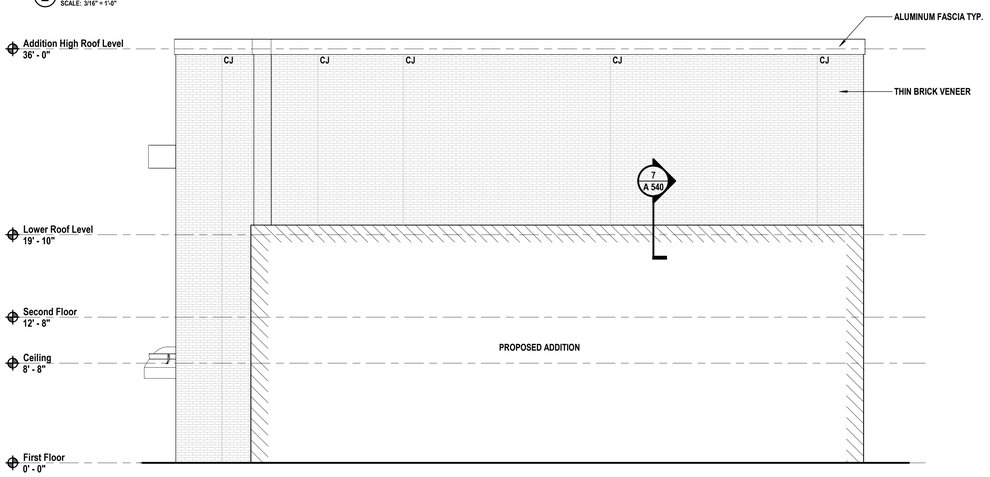


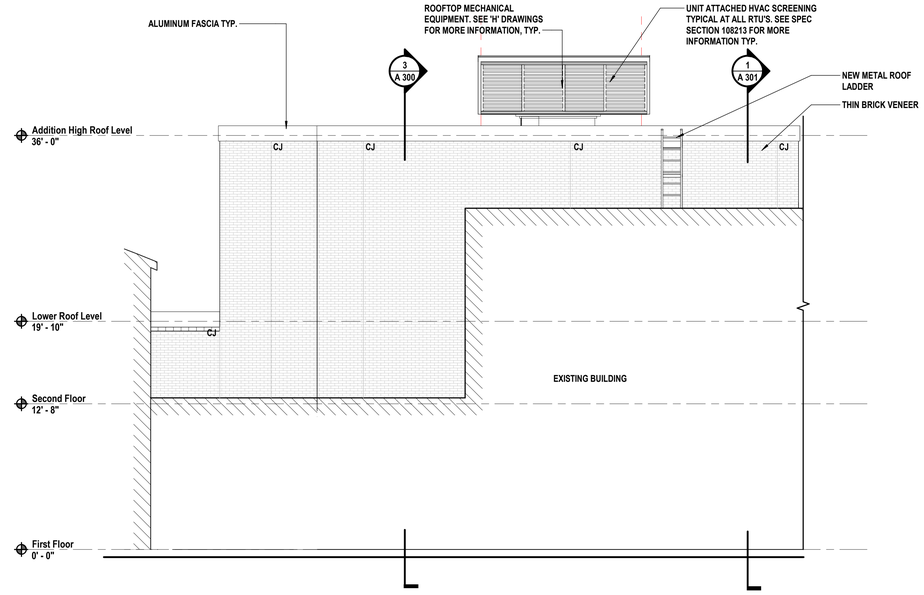
1 East Elevation
SCALE: 3/16" = 1'-0"



2 South Elevation
SCALE: 3/16" = 1'-0"

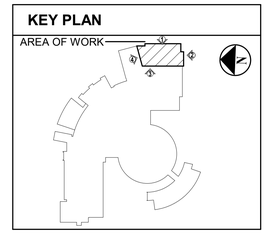


4 North Elevation
SCALE: 3/16" = 1'-0"



3 West Elevation
SCALE: 3/16" = 1'-0"

KEY PLAN



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BUILDING ELEVATIONS NORTH & WEST

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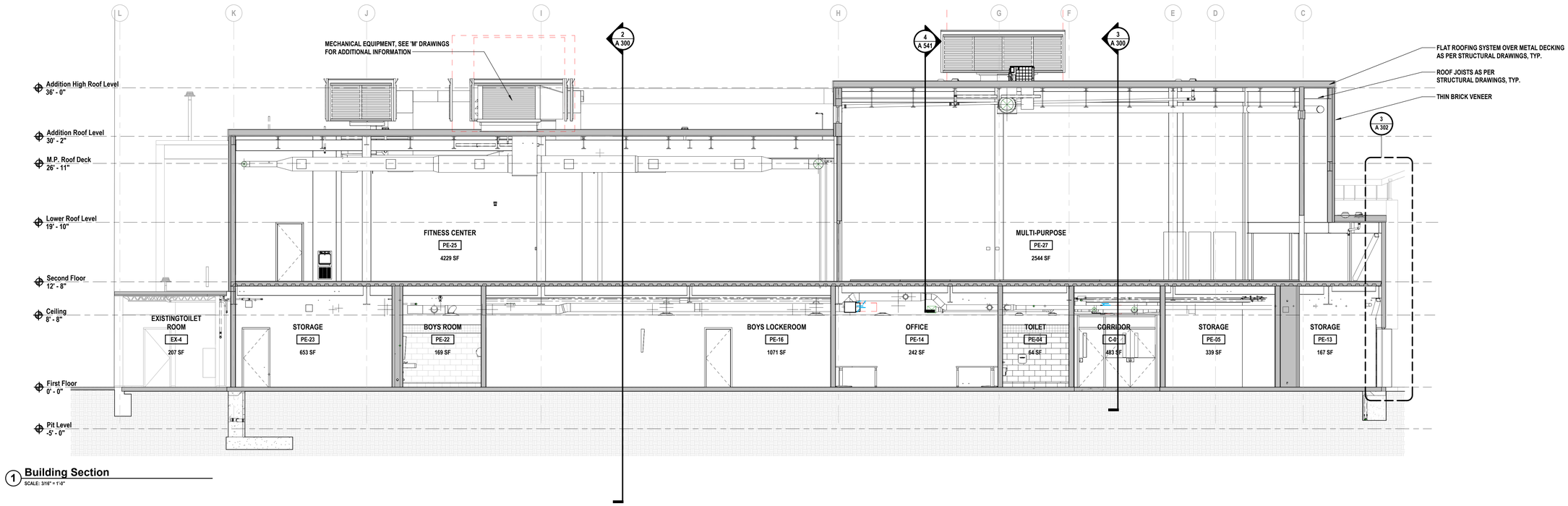

1 **Building Section**
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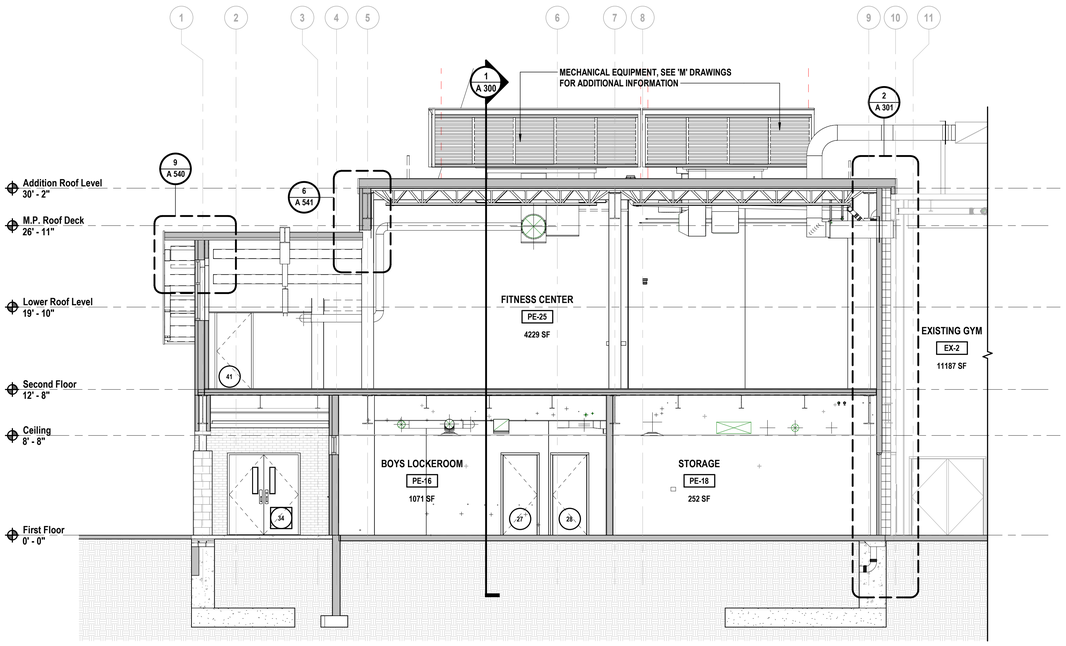

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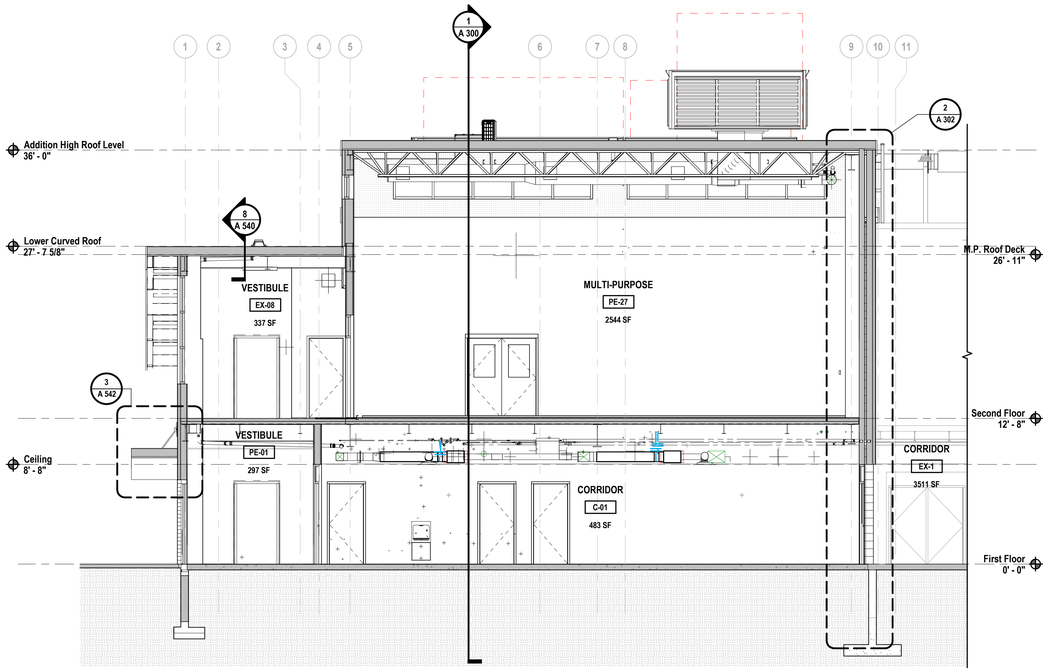

3 **Building Section**
SCALE: 3/16" = 1'-0"

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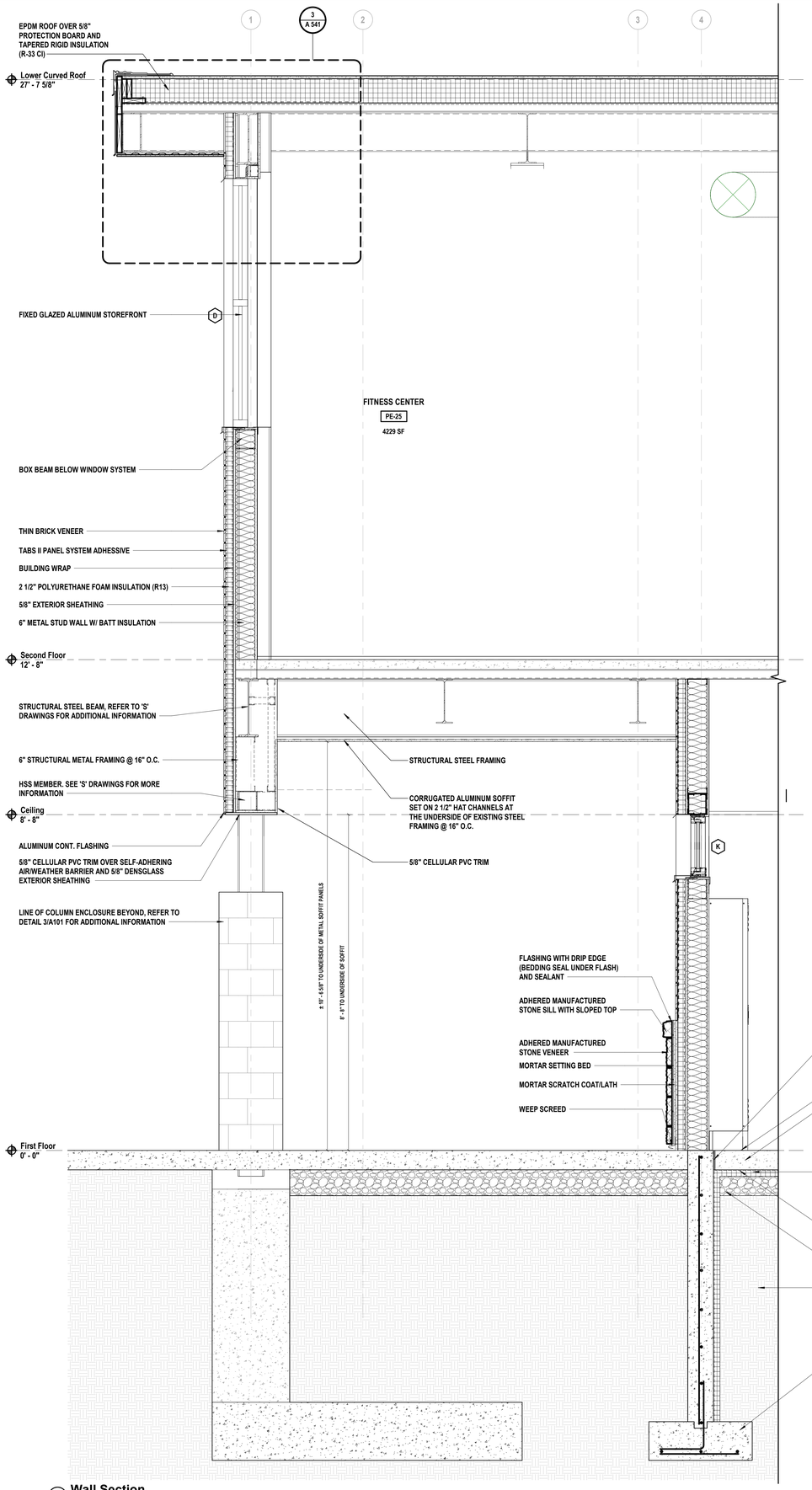
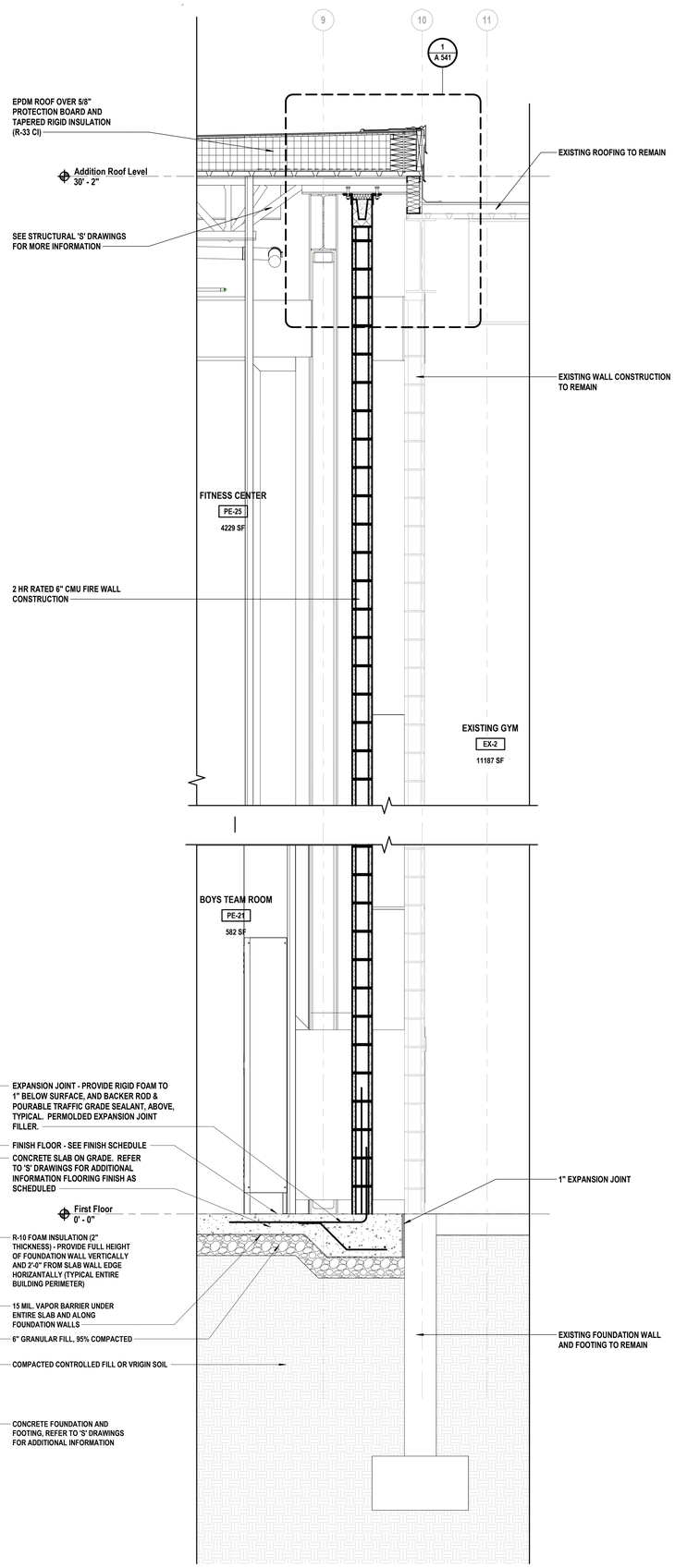


1 **Wall Section**
SCALE: 3/4" = 1'-0"



2 **Wall Section**
SCALE: 3/4" = 1'-0"

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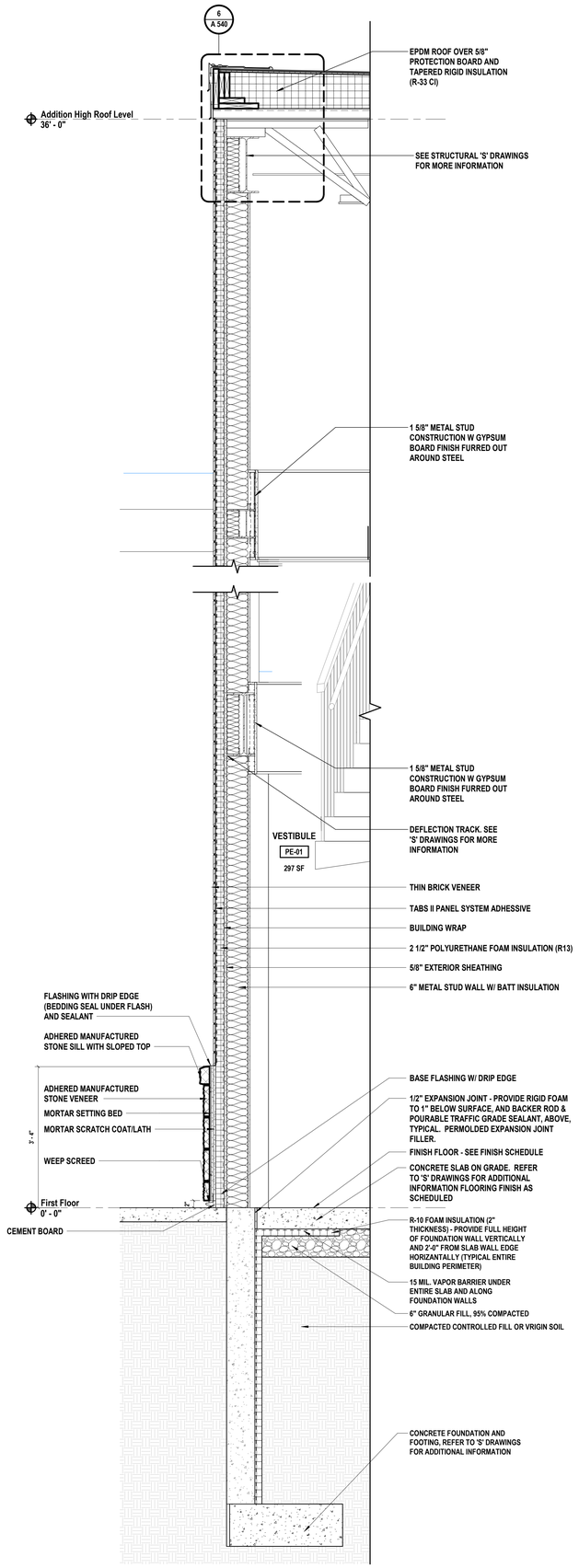

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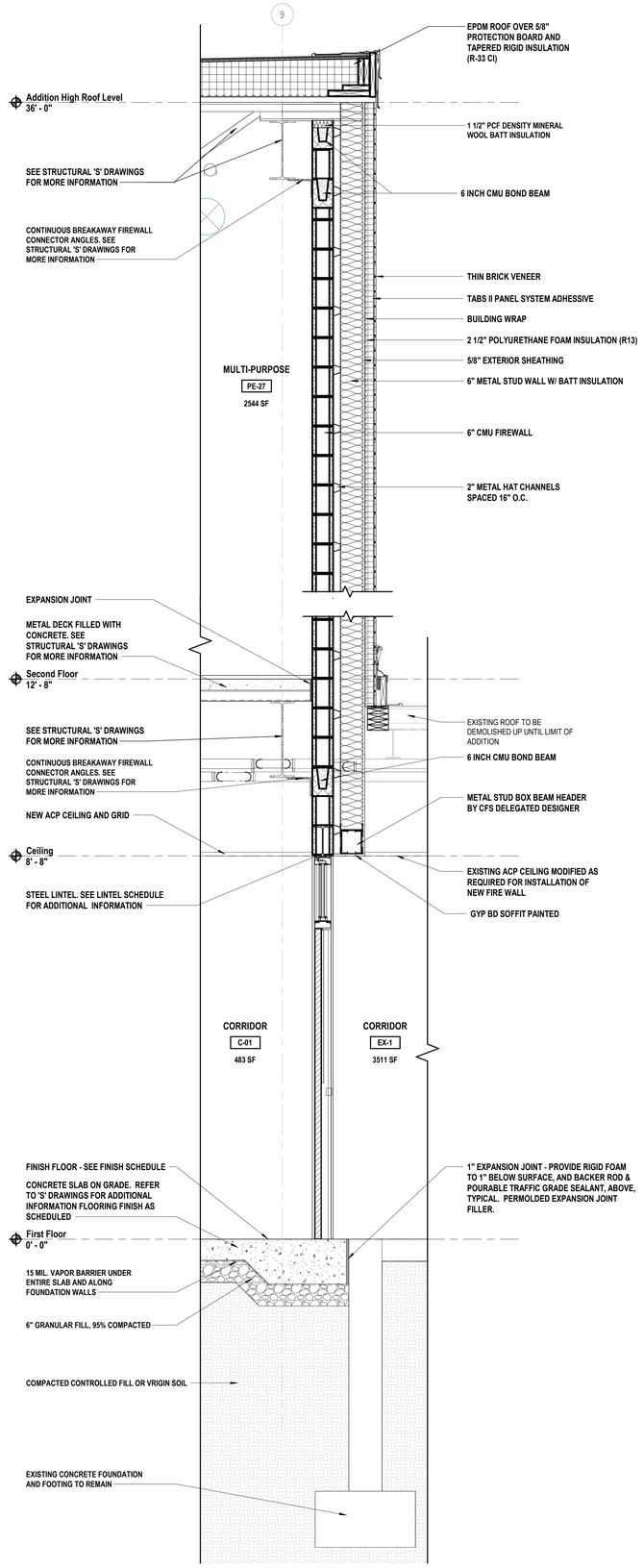

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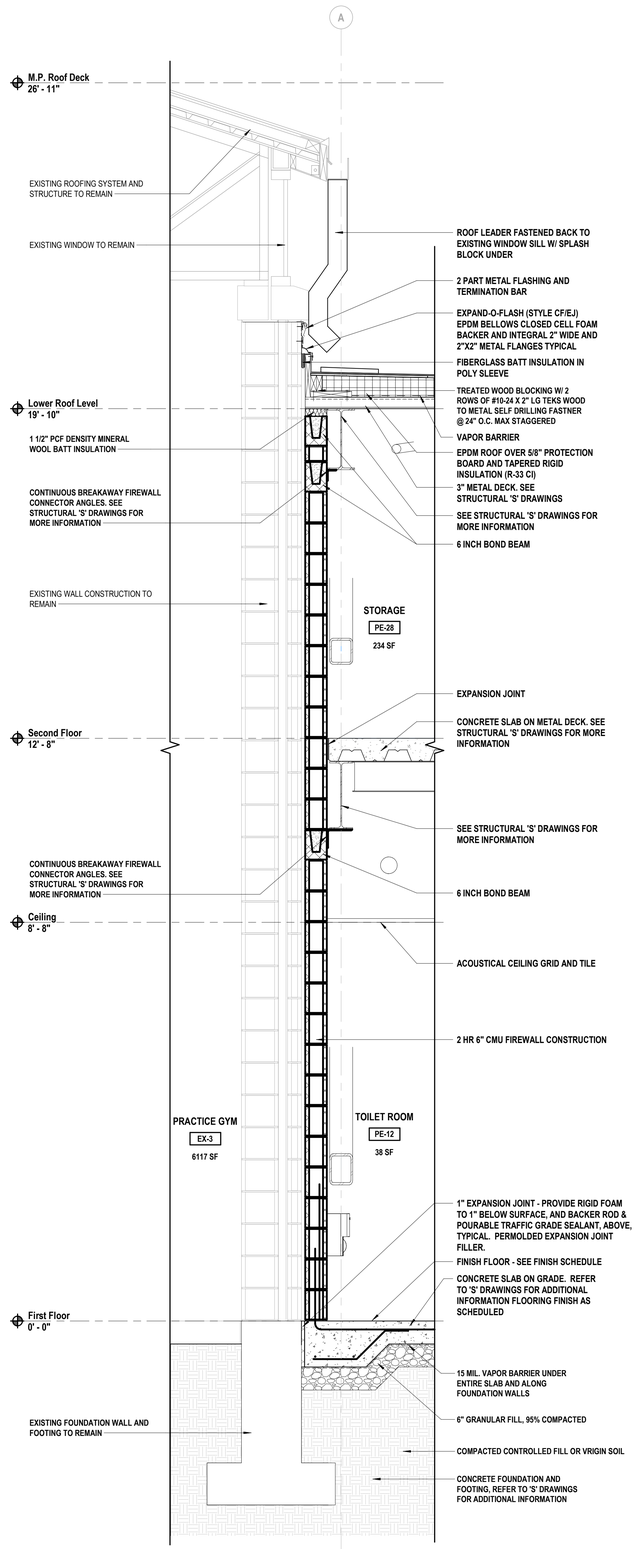
SCALE: 3/4" = 1'-0"



3 **Wall Section**
SCALE: 3/4" = 1'-0"

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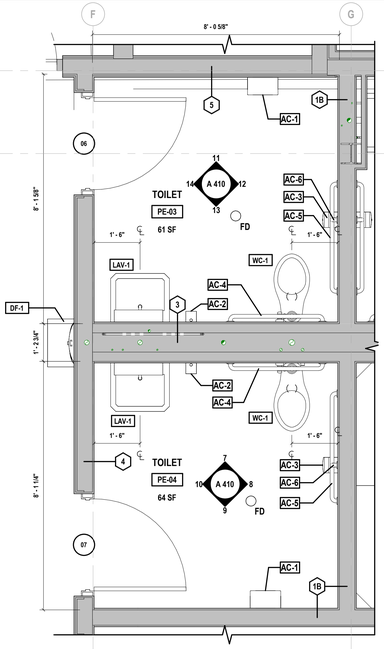
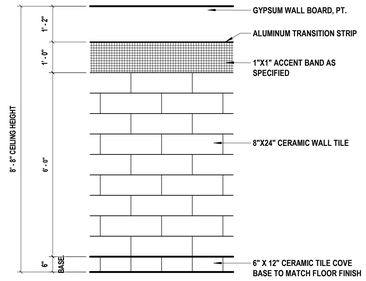


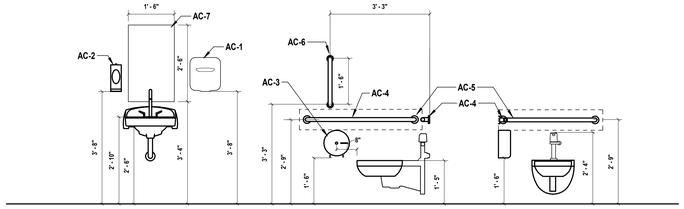
1 Enlarged Toilet Plans

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



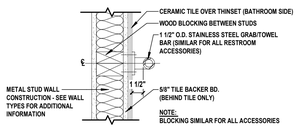
2 Ceramic Tile Pattern

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



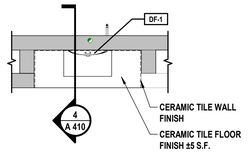
Mounting Heights

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



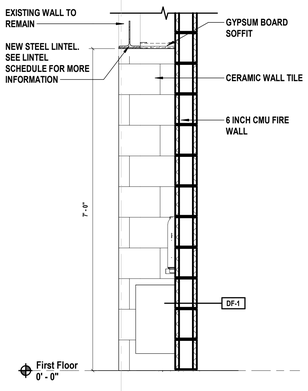
Grab Bar Detail

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



6 Enlarged Water Fountain Plan

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



4 Wall Section

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

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION
AC-1	XLERATOR Hand Dryer
AC-2	SOAP DISPENSER
AC-3	TOILET PAPER DISPENSER
AC-4	36" GRAB BARS
AC-5	42" GRAB BARS
AC-6	18" VERTICAL GRAB BARS
AC-7	MIRROR UNIT
AC-8	STAINLESS STEEL SHOWER GRAB BAR
AC-9	L-SHAPED FOLDING SHOWER SEAT
AC-10	SHOWER ROD AND CURTAIN

NOTE: 1. VERIFY LOCATION OF ALL ACCESSORIES PRIOR TO INSTALLTION WITH OWNER AND ARCHITECT

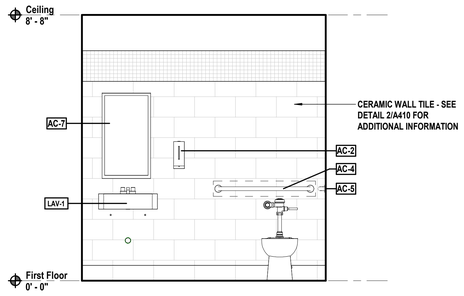
2. TOILET ACCESSORIES SCHEDULE SHALL BE REFERENCED FOR SHEET NO. A410THROUGH A412

PLUMBING FIXTURE SCHEDULE

Type Mark	Description
DF-1	DRINKING FOUNTAIN W/ BOTTLE FILLING STATION
LAV-1	WALL MOUNTED LAVATORY
SW-1	SHOWER UNIT
UR-1	WALL MOUNTED URINAL
WC-1	FLOOR MOUNTED WATER CLOSET

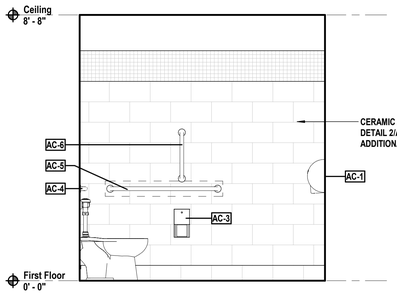
TOILET ACCESSORIES NOTES

1. ALL RESTROOM ACCESSORIES SHALL BE MOUNTED AS PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. ACCESSORIES MOUNTED TO THE WALL SHALL RECEIVE ADDITIONAL BLOCKING
2. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL LOCATIONS OF THE RESTROOM ACCESSORIES WITH PLUMBING FIXTURES, AND RELATED ITEMS
3. FINAL LOCATIONS OF ALL RESTROOM ACCESSORIES SHALL BE REVIEWED AND APPROVED BY THE OWNER/ARCHITECT IN FIELD PRIOR TO INSTALLATION
4. SEE SECTION 102800 OF THE PROJECT MANUAL FOR ADDITIONAL INFORMATION



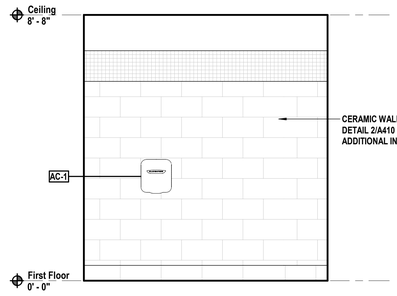
7 Interior Toilet Elevation

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



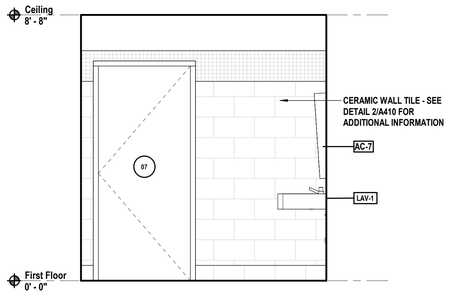
8 Interior Toilet Elevation

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



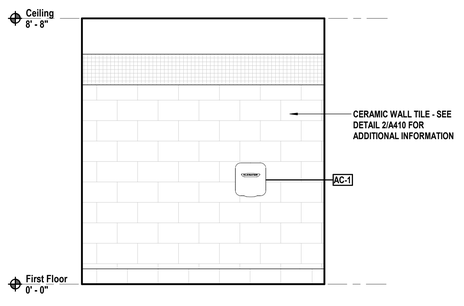
9 Interior Toilet Elevation

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



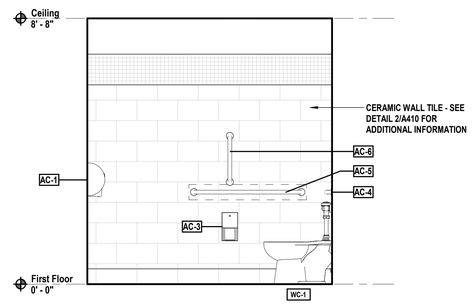
10 Interior Toilet Elevation

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



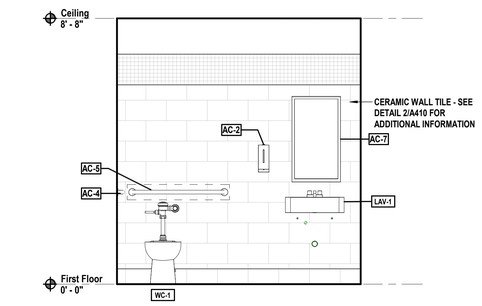
11 Interior Toilet Elevation

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



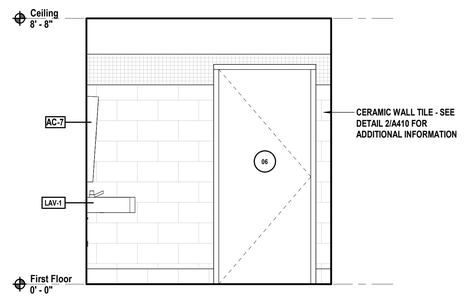
12 Interior Toilet Elevation

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



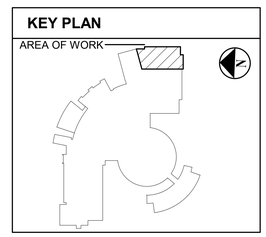
13 Interior Toilet Elevation

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



14 Interior Toilet Elevation

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



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SAVERIO J. BELFIORE, R.A. Exp. Date
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K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT G GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

ENLARGED TOILET PLAN AND ELEVATIONS

DRAWING No.

A 410.00

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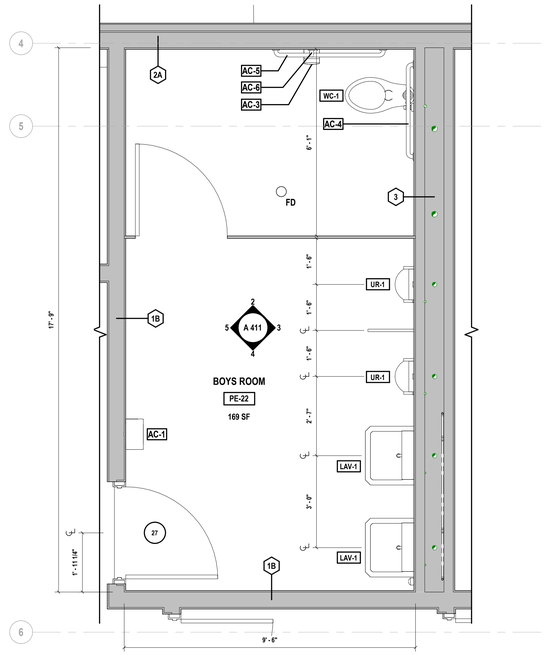
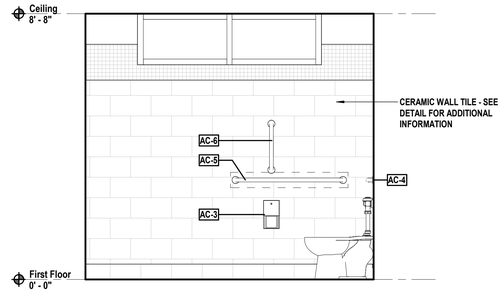
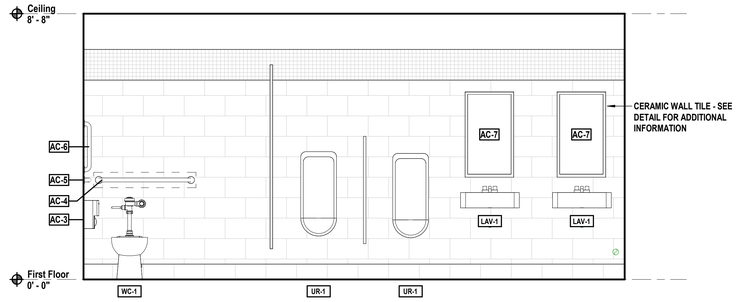


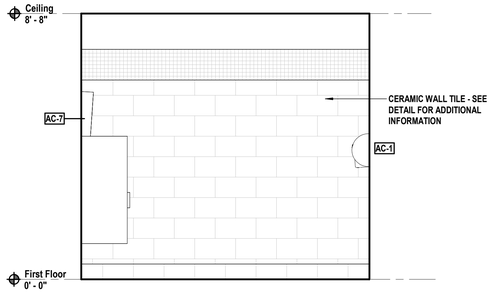
1 Enlarged Toilet Plan
SCALE: 1/2" = 1'-0"



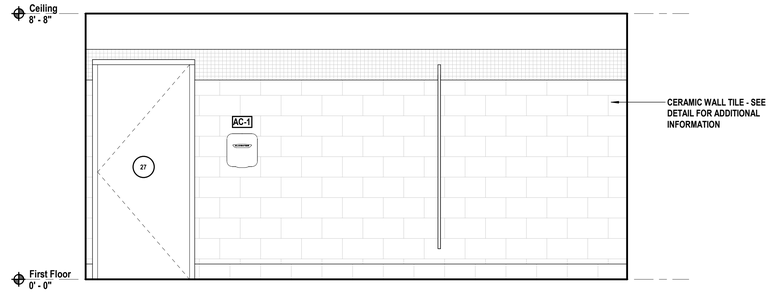
2 Interior Toilet Elevation
SCALE: 1/2" = 1'-0"



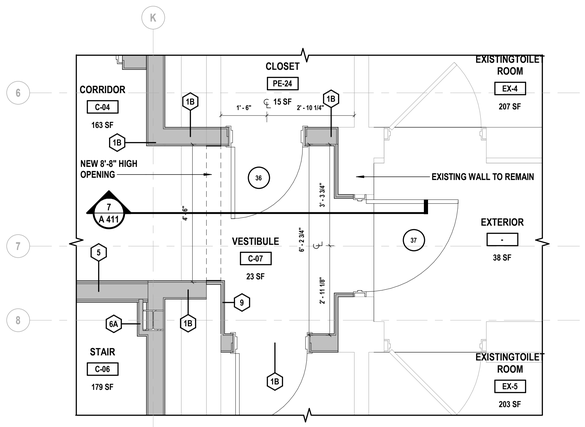
3 Interior Toilet Elevation
SCALE: 1/2" = 1'-0"



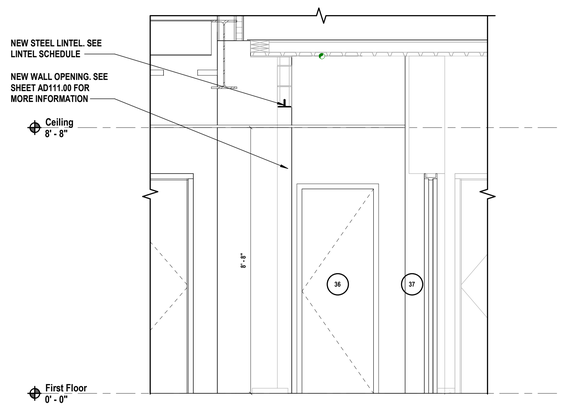
4 Interior Toilet Elevation
SCALE: 1/2" = 1'-0"



5 Interior Toilet Elevation
SCALE: 1/2" = 1'-0"

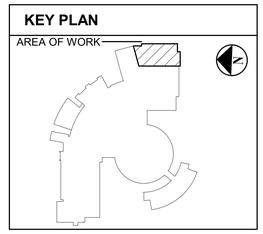


6 Enlarged Floor Plan
SCALE: 1/2" = 1'-0"



7 Section 29
SCALE: 1/2" = 1'-0"

KEY PLAN



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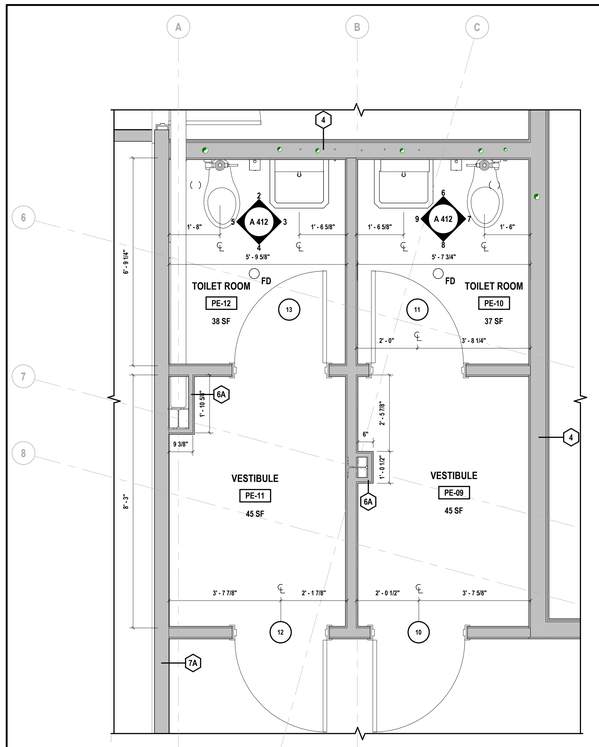
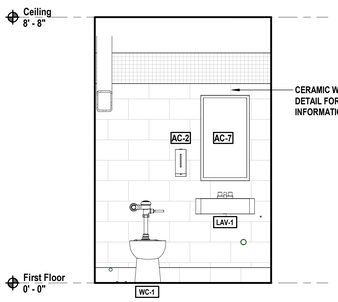
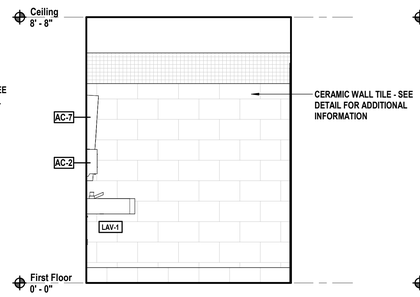


1 **Enlarged Toilet Plan**
SCALE: 1/2" = 1'-0"

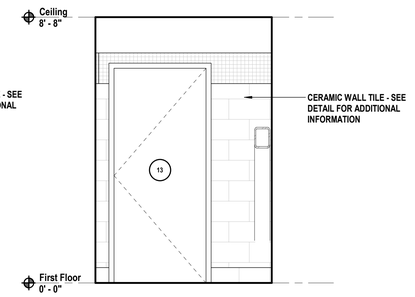
PROJECT NORTH



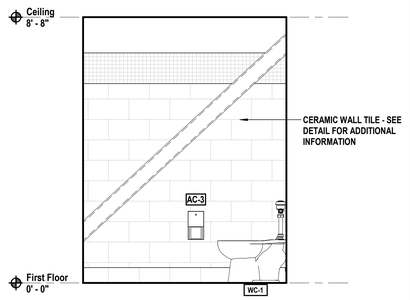
2 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



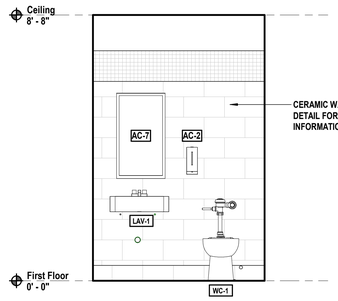
3 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



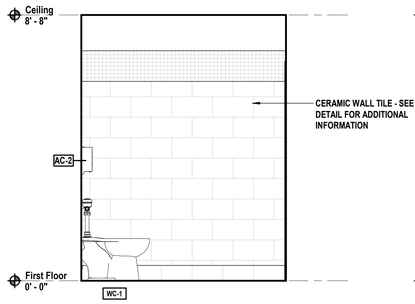
4 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



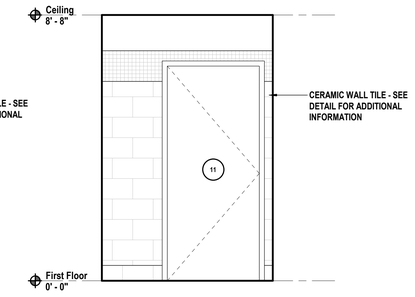
5 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



6 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



7 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



8 **Interior Toilet Elevation**
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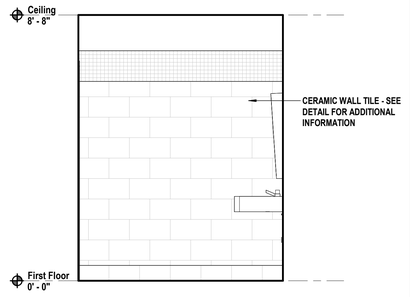
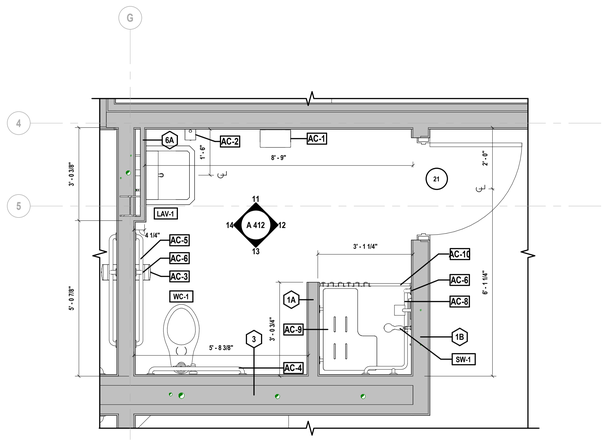
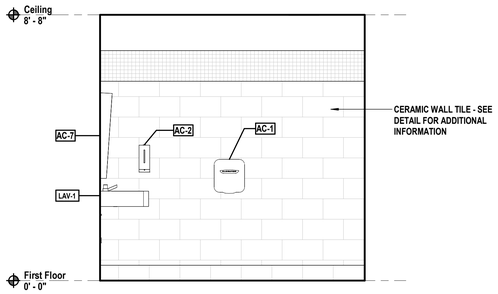


9 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"

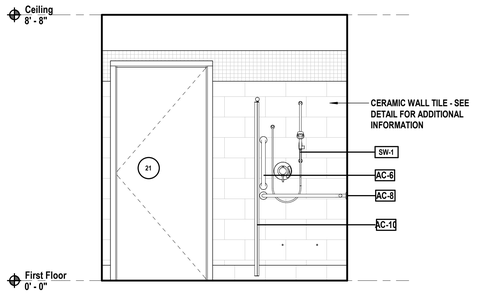


10 **Enlarged Toilet Plan**
SCALE: 1/2" = 1'-0"

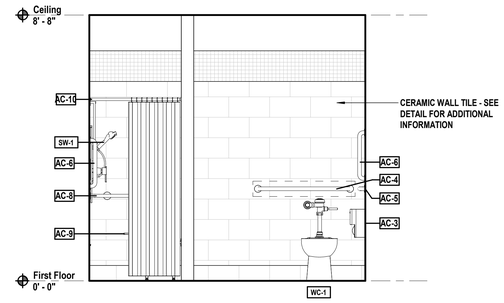
PROJECT NORTH



11 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



12 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"



13 **Interior Toilet Elevation**
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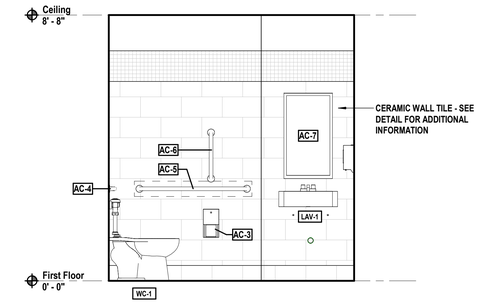
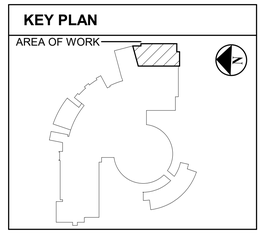


14 **Interior Toilet Elevation**
SCALE: 1/2" = 1'-0"

KEY PLAN



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CLIENT
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Fitness Center Addition at Harrison High School

EQUITY • ACCESS • HARRISON CENTRAL SCHOOL DISTRICT HSD • ADAPTABILITY • RIGOR

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SED NO.: 66-05-01-06-0-011-048

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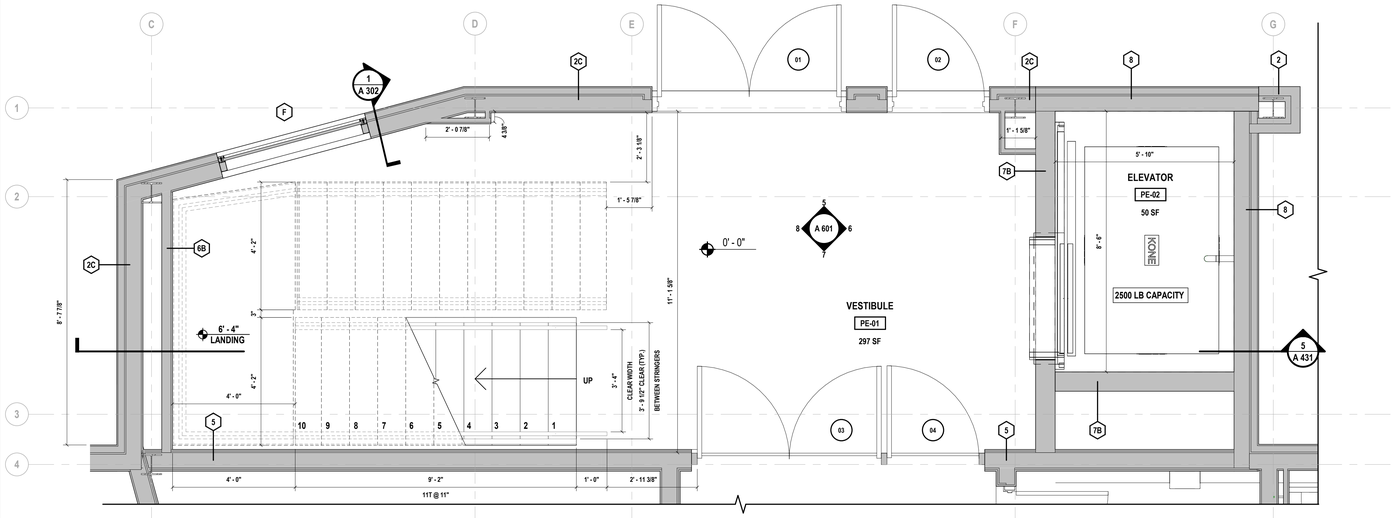
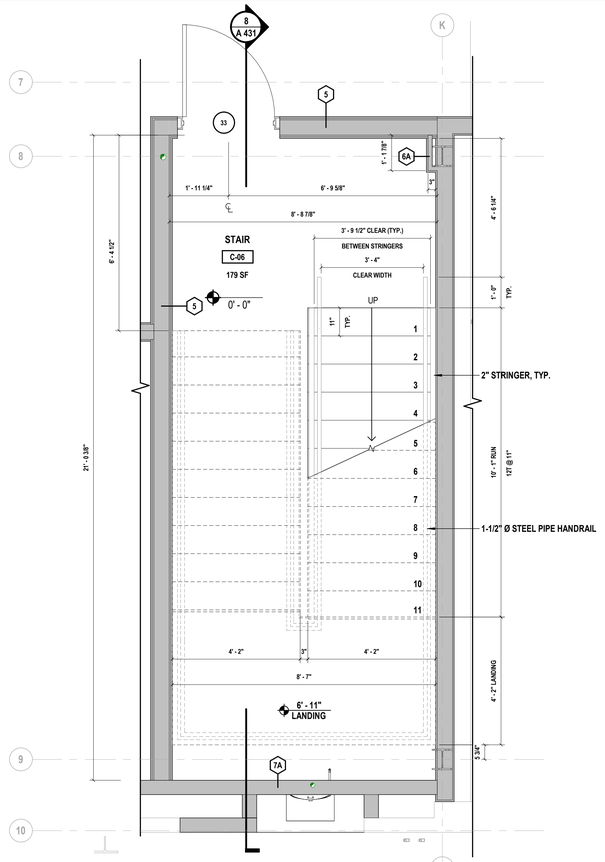
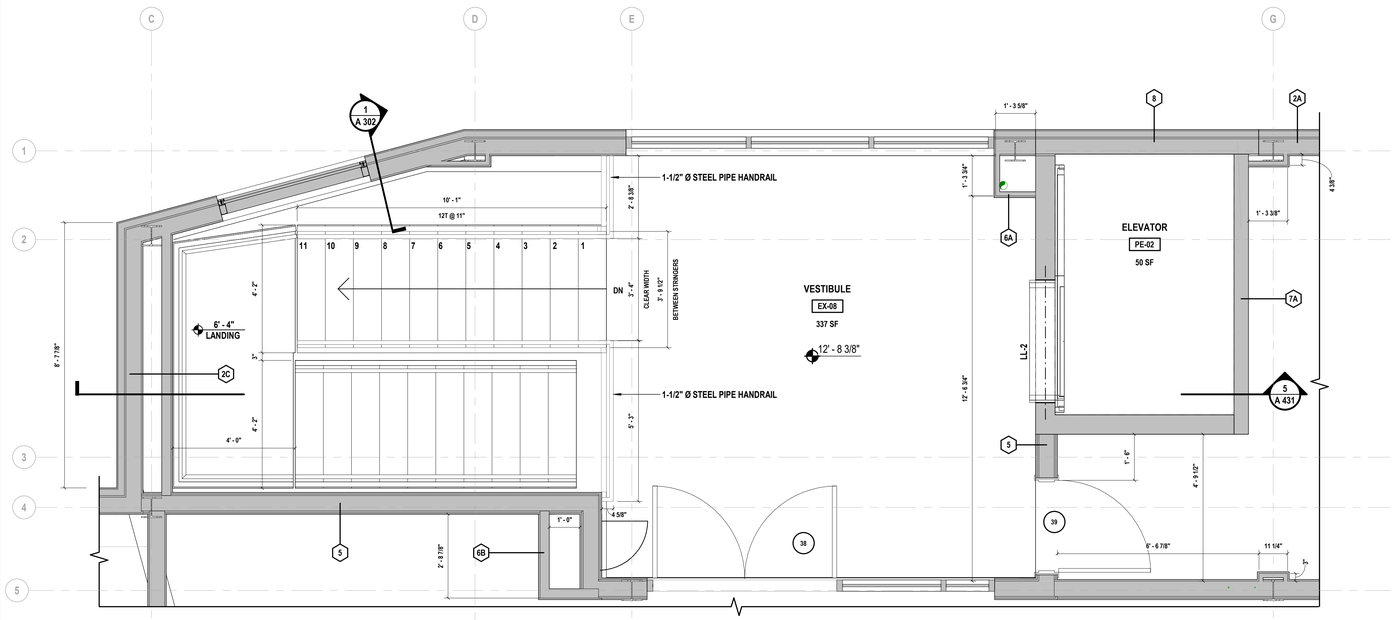


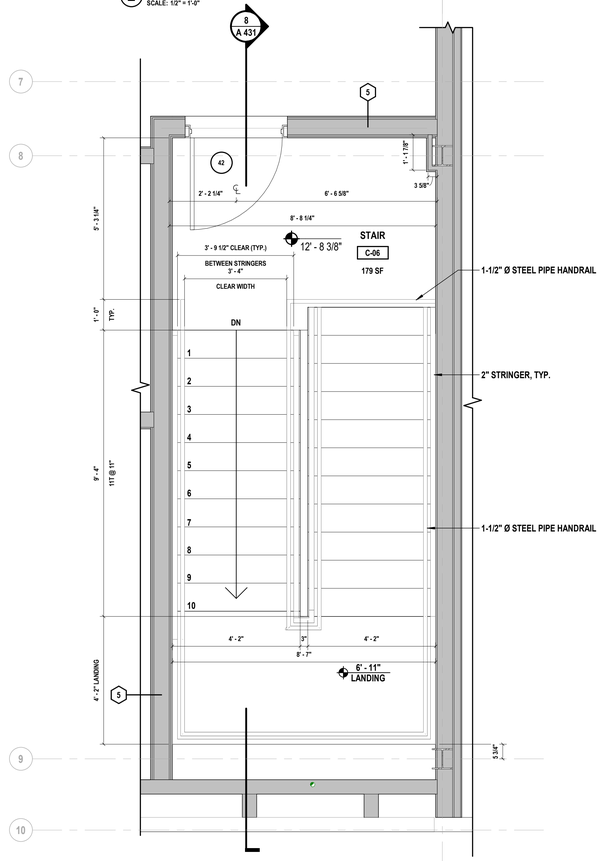
1 **Enlarged First Floor Stair Plan**
SCALE: 1/2" = 1'-0"



2 **Enlarged Stair Plan**
SCALE: 1/2" = 1'-0"



3 **Enlarged Second Floor Stair Plan**
SCALE: 1/2" = 1'-0"



4 **Enlarged Second Floor Stair Plan**
SCALE: 1/2" = 1'-0"

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REGISTERED ARCHITECT SAVERIO J. BELFIORE 033063 STATE OF NEW YORK

SAVERIO J. BELFIORE, R.A. Exp. Date
PROFESSIONAL ARCHITECT Lic. No. 033063

"IN ACCORDANCE WITH ARTICLE 145, SECTION 7209 OF THE NYS EDUCATION LAW, ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT
Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • HARRISON CENTRAL SCHOOL DISTRICT • ADAPTABILITY • RIGOR

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
CONTRACT G GENERAL CONSTRUCTION

STATUS
FINAL BID DOCUMENT

SHEET TITLE
ENLARGED ELEVATOR AND STAIR PLAN

DRAWING No.
A 430.00

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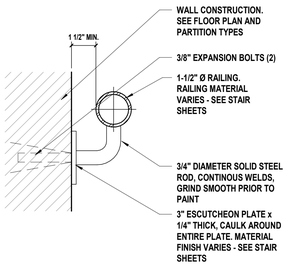
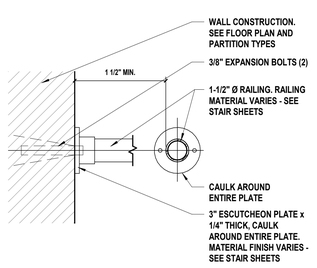
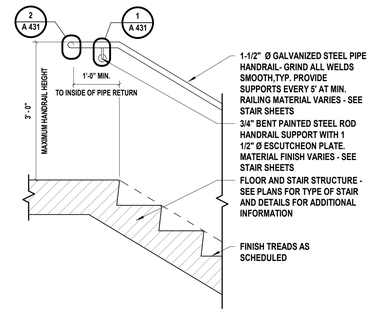


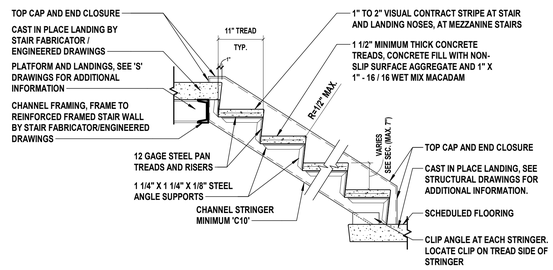
1 Wall Anchoring Handrail Detail
SCALE: 3" = 1'-0"



2 Wall Anchoring Handrail Detail
SCALE: 3" = 1'-0"

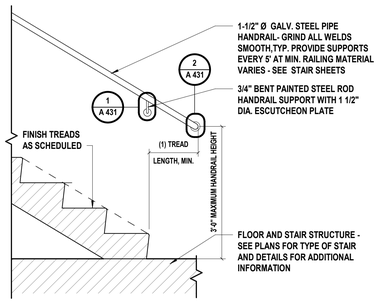


3 Typical Handrail Landing Detail
SCALE: 3/4" = 1'-0"

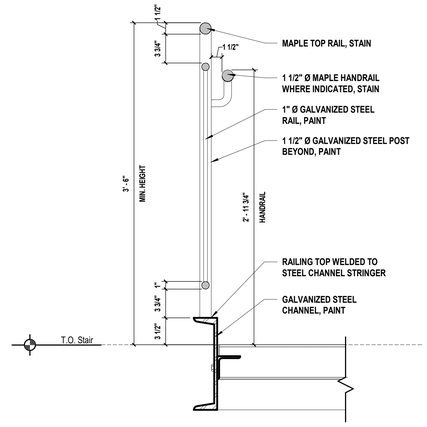


4 Typical Steel Pan Stair Detail
SCALE: 3/4" = 1'-0"

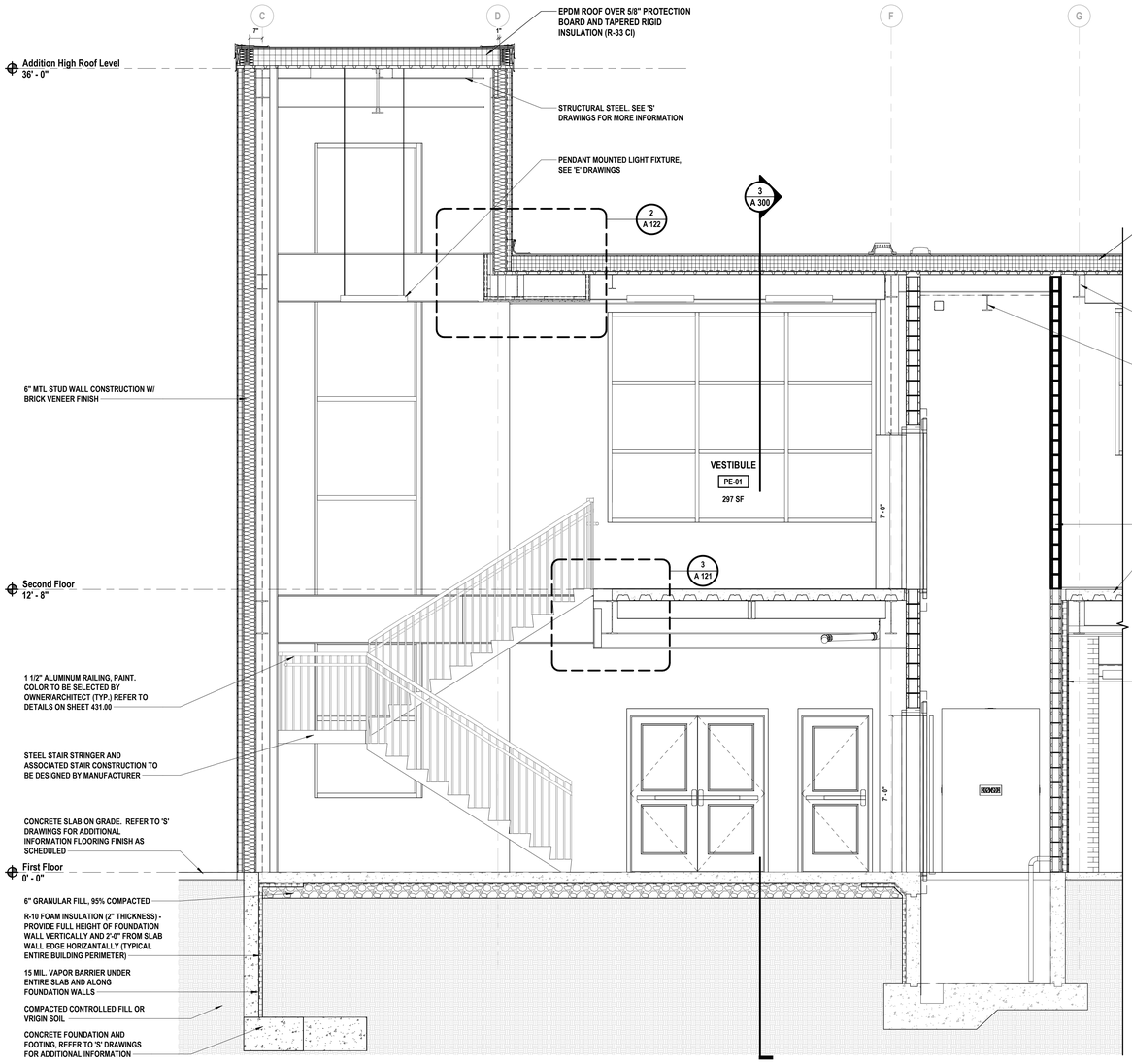
NOTE:
1. ALL STAIR COMPONENTS INCLUDING BUT NOT LIMITED TO STRINGERS, TREADS, RAILINGS, ANCHORS, AND ACCESSORIES SHALL BE HOT DIPPED GALVANIZED
2. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS OF STAIRS, LANDINGS, CONNECTIONS, AND RAILINGS FROM A LICENSED P.E. FOR ARCHITECT OR RECORD REVIEW.



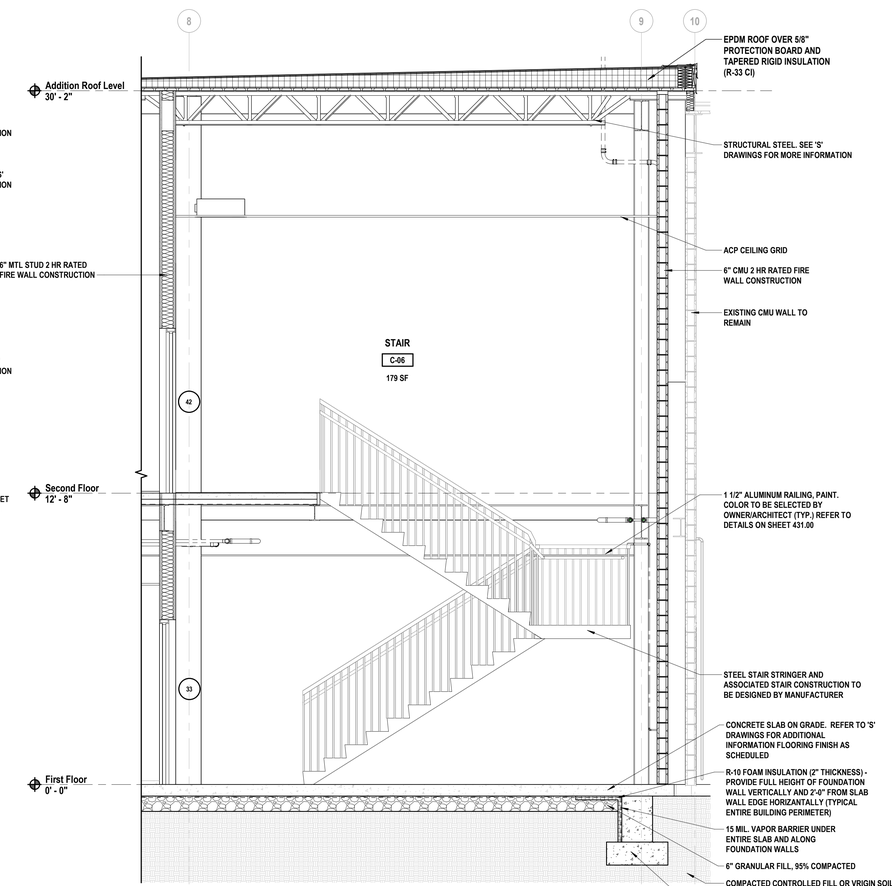
6 Typical Handrail Base Detail
SCALE: 3/4" = 1'-0"



7 Railing Detail
SCALE: 1 1/2" = 1'-0"



5 Stair Section
SCALE: 3/8" = 1'-0"



8 Stair C-06 Section
SCALE: 3/8" = 1'-0"

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CONSULTANTS:

MARK	DATE	DESCRIPTION
1	03/20/2026	PERMIT SUBMISSION

SAVERIO J. BELFIORE, R.A. — PROFESSIONAL ARCHITECT Lic. No. 033063 — Exp. Date

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255 Union Ave, Harrison, NY 10528

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SHEET TITLE

STAIR DETAILS

DRAWING No.

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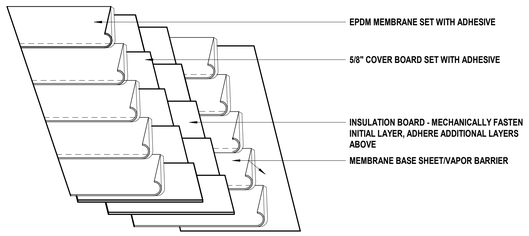
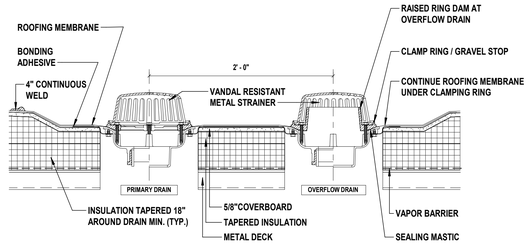


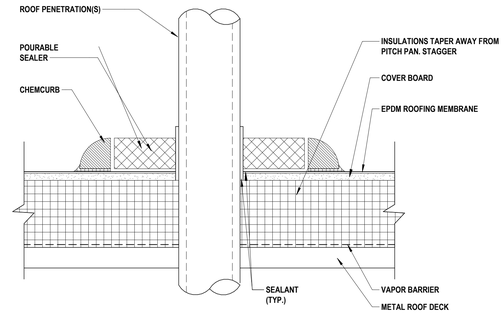
NOTE: OVERALL ROOFING SYSTEM SHALL PROVIDE A MINIMUM R-VALUE OF R-30 THROUGHOUT ALL ROOF AREAS

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

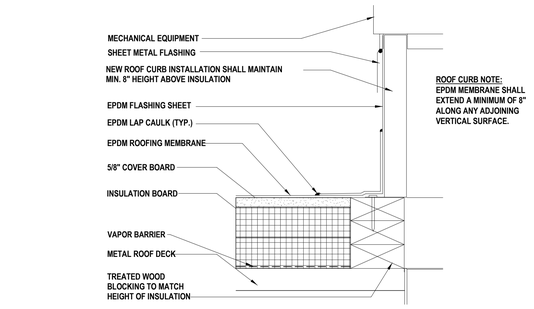


ROOF DRAIN NOTES:
1. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
2. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
3. APPROXIMATELY 1/8" DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF MEMBRANE.

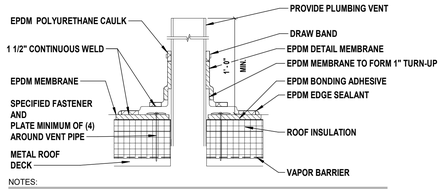
2 Roof Drain Detail
SCALE: 1 1/2" = 1'-0"



3 Typical Pitch Pocket Detail
SCALE: 3" = 1'-0"

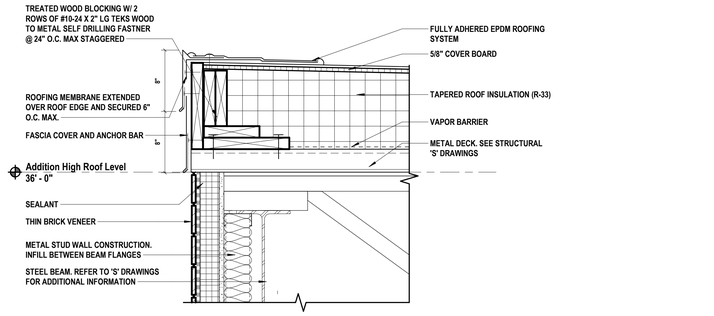


4 Roof Curb Detail
SCALE: 3" = 1'-0"

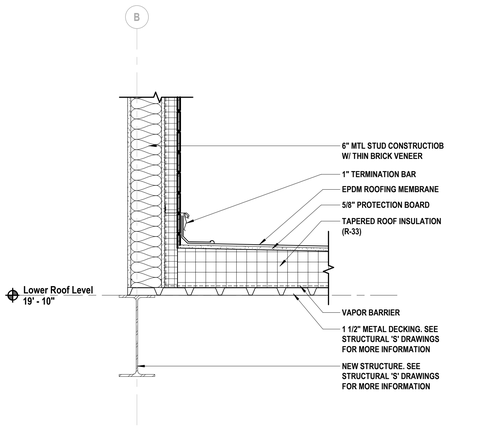


NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. EPDM EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS, AND FIELD CUT EDGES.
3. INSULATION MUST BE COMPATIBLE WITH EPDM BONDING ADHESIVE.

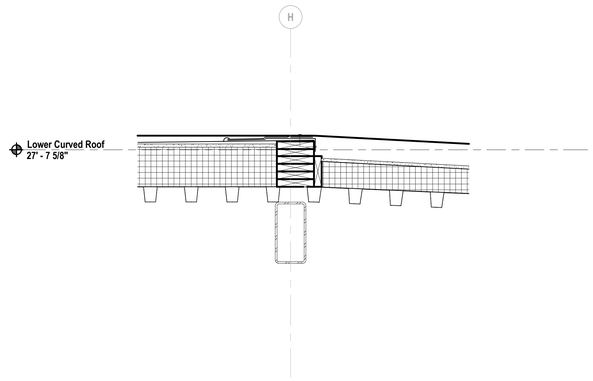
5 Roof Vent Details
SCALE: 1 1/2" = 1'-0"



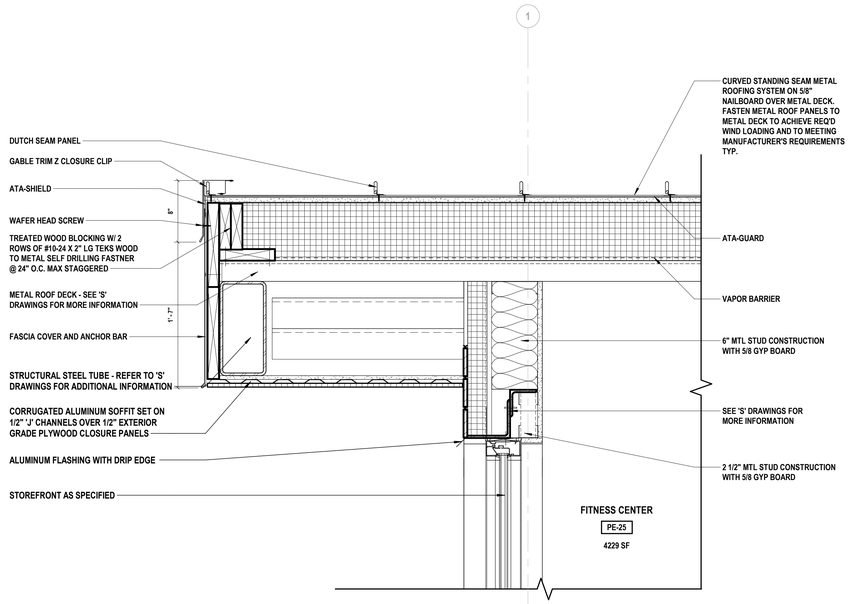
6 Roof Edge Detail
SCALE: 1 1/2" = 1'-0"



7 Roof Detail
SCALE: 1" = 1'-0"



8 Roof Transition Detail
SCALE: 1" = 1'-0"



9 Roof Edge Detail @ Standing Seam Roof
SCALE: 1 1/2" = 1'-0"

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CONSULTANTS:

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	03/27/2026	SED SUBMISSION

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255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

STATUS: **FINAL BID DOCUMENT**

SHEET TITLE: **ROOF DETAILS**

DRAWING No.: **A 540.00**

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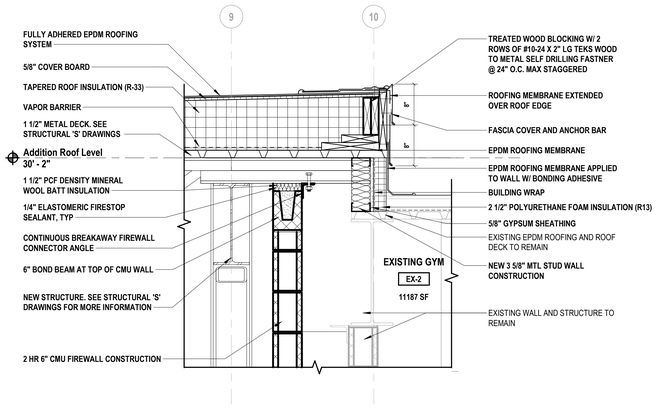
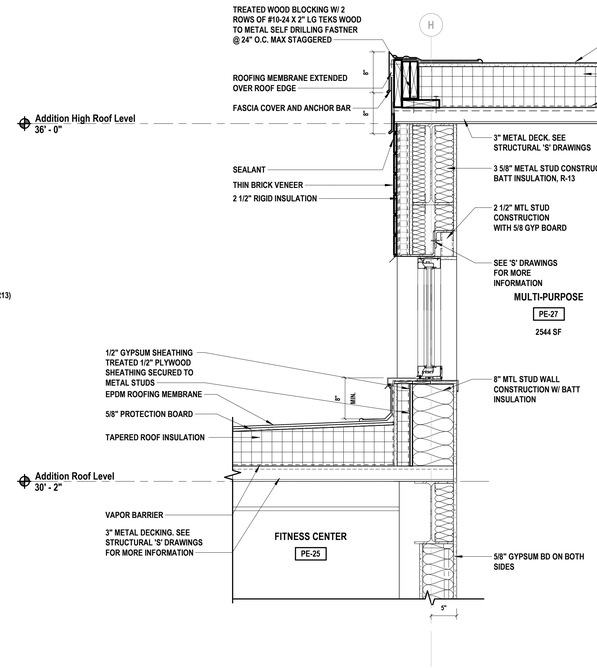


1 **Roof Edge Detail**
SCALE: 1" = 1'-0"



2 **Roof Edge Detail**
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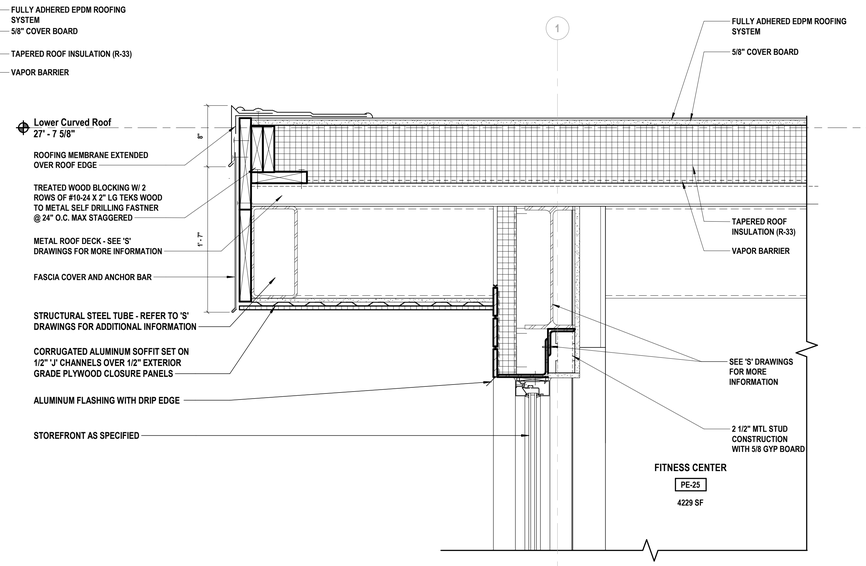
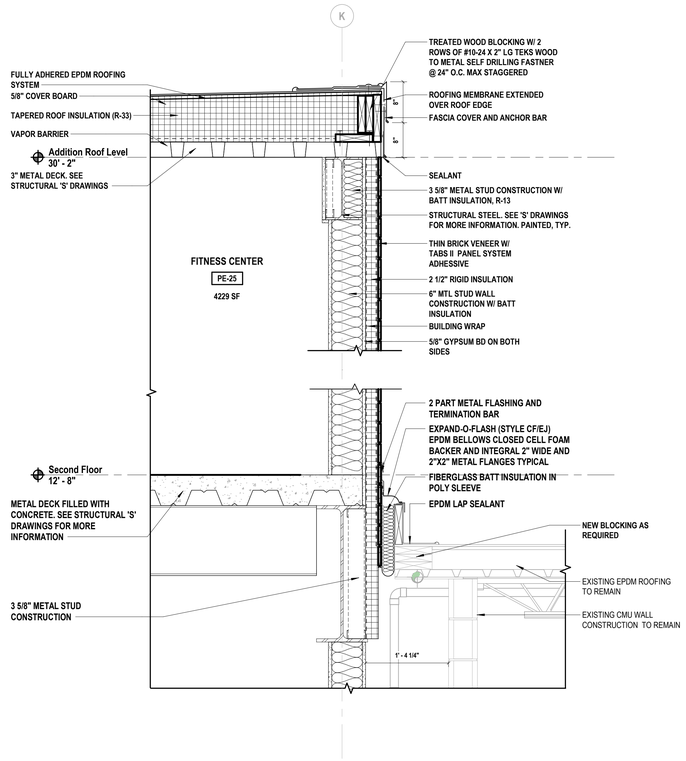


3 **Roof Soffit Detail**
SCALE: 1 1/2" = 1'-0"

4 **Roof Edge Detail**
SCALE: 1" = 1'-0"



5 **Roof Edge Detail**
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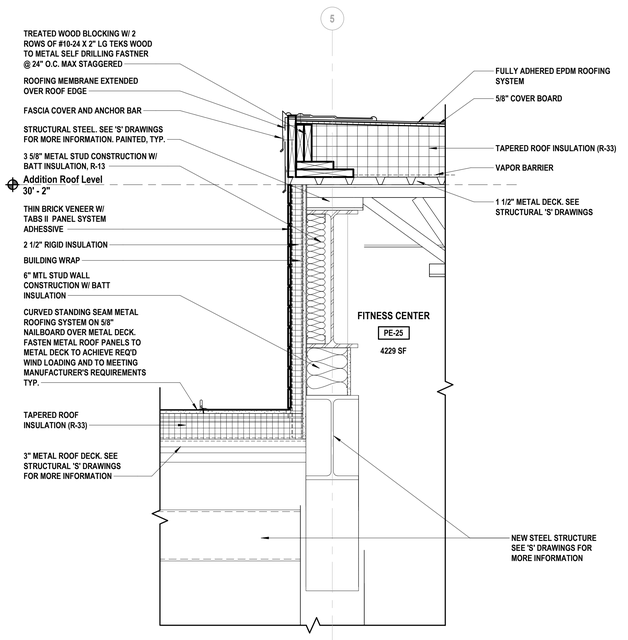

6 **Roof Edge Detail**
SCALE: 1" = 1'-0"

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ROOF DETAILS

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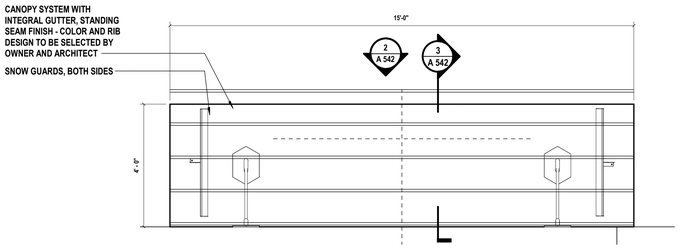

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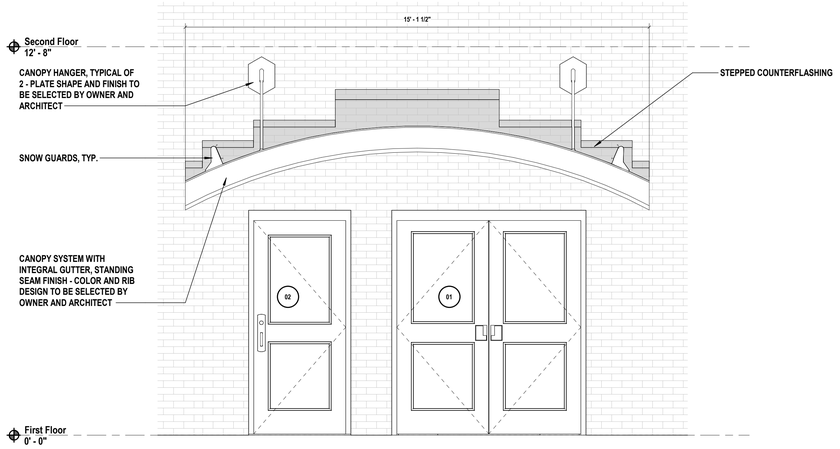
SCALE: 1/2" = 1'-0"



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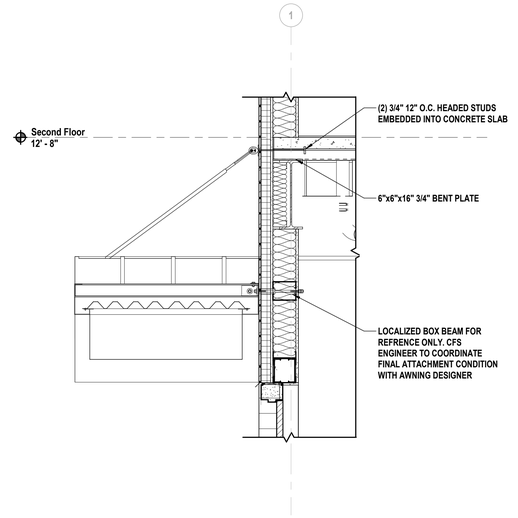
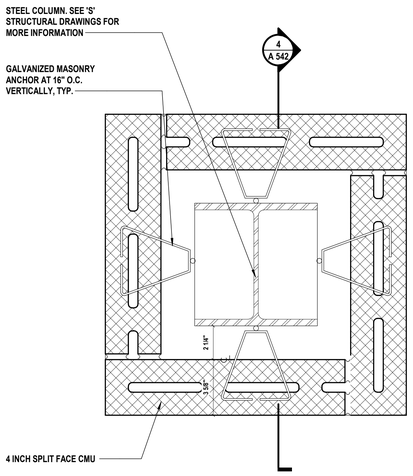


3 Canopy Section
SCALE: 3/4" = 1'-0"



5 Column Enclosure Detail
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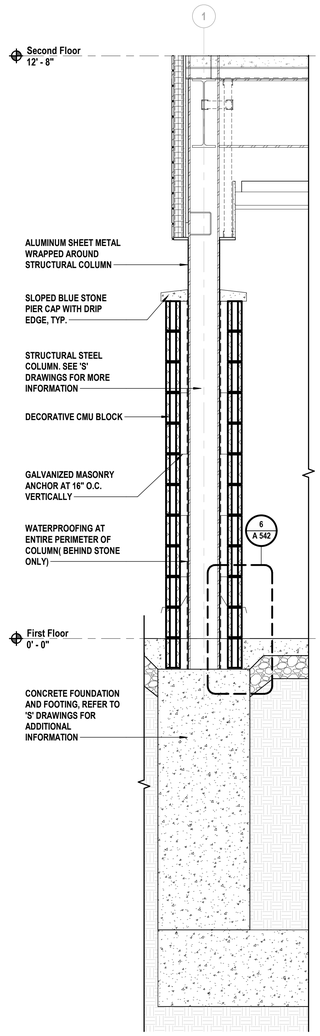
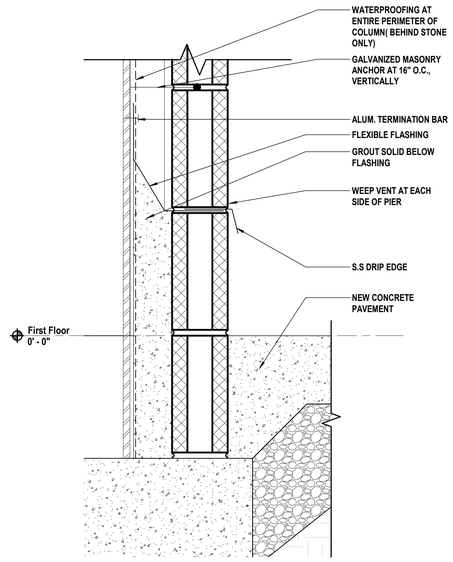


4 Column Section
SCALE: 3/4" = 1'-0"



6 Column Section - Callout 1
SCALE: 3" = 1'-0"

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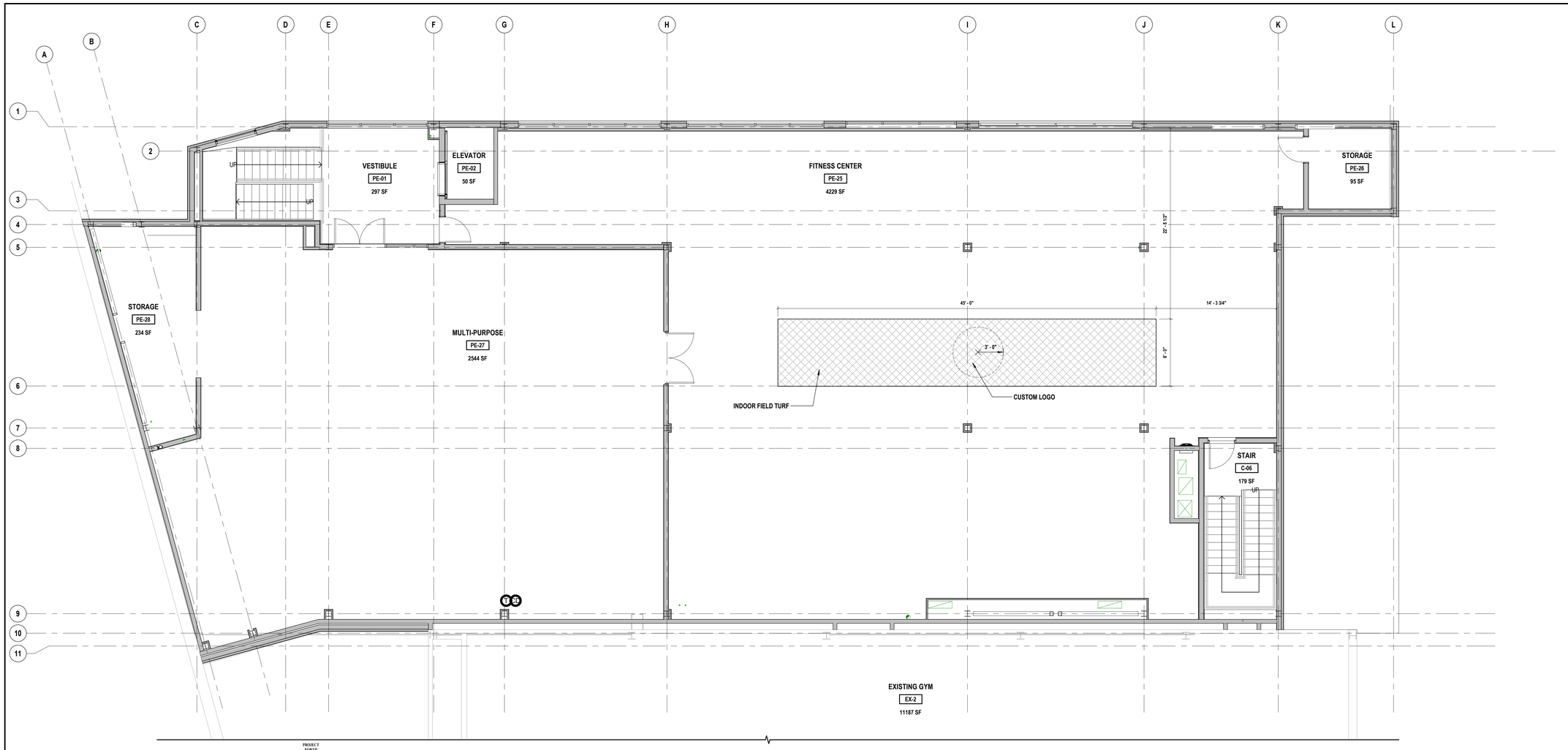
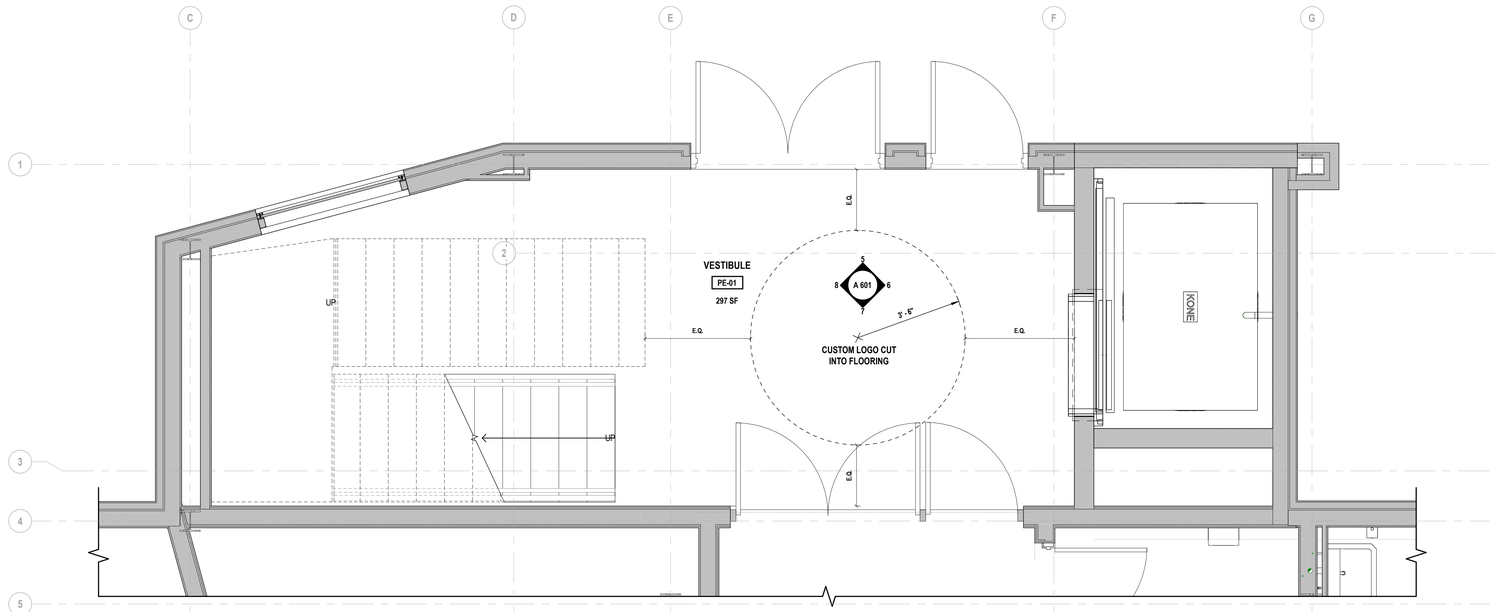


1 **Partial Second Floor Finish Plan**
SCALE: 3/16" = 1'-0"



2 **Vestibule Finish Plan**
SCALE: 1/2" = 1'-0"

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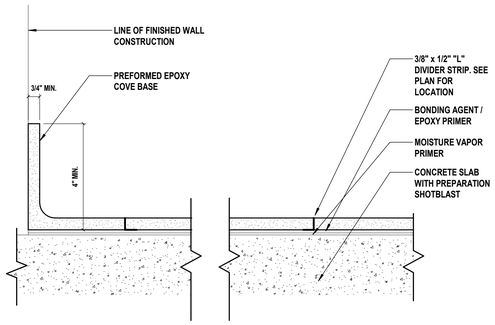
FINISH SCHEDULE

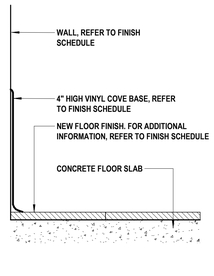
ROOM		FLOOR			WALLS								CEILING			
					NORTH		EAST		SOUTH		WEST					
NUMBER	NAME	MATL.	FIN.	BASE	MATL.	FIN.	MATL.	FIN.	MATL.	FIN.	MATL.	FIN.	MATL.	FIN.	HGT.	COMMENTS
C-01	CORRIDOR	EPOXY TER.	FF	TWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	ACP-2	FF	8' - 8"	Notes 1-2
C-02	VESTIBULE	CONC	PT	VWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	ACP-2	FF	8' - 8"	Notes 1-2
C-03	VESTIBULE	CONC	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-2	FF	8' - 8"	Notes 1-2
C-04	CORRIDOR	CONC	PT	VWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	ACP-2	FF	8' - 8"	Notes 1-2
C-05	CORRIDOR	CONC	PT	VWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	ACP-2	FF	8' - 8"	Notes 1-2
C-06	STAIR	EPOXY TER.	FF	TWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-2	FF	12' - 0"	Notes 1-2
C-07	VESTIBULE	CONC	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-2	FF	8' - 8"	Notes 1-2
PE-01	VESTIBULE	EPOXY TER.	FF	TWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	ACP-2	FF	10' - 0"	Notes 1-2
PE-02	ELEVATOR	-	-	-	CMU	FF	CMU	FF	CMU	FF	CMU	FF	-	-		Notes 1-2
PE-03	TOILET	CT	FF	CT	CT	FF	CT	FF	CT	FF	CT	FF	ACP-1	FF	8' - 8"	Notes 1-2
PE-04	TOILET	CT	FF	CT	CT	FF	CT	FF	CT	FF	CT	FF	ACP-1	FF	8' - 8"	Notes 1-2
PE-05	STORAGE	CONC	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	-	PT		Notes 1-2
PE-06	EX. ATHELTIC DIRECTOR OFFICE	HVT	FF	VWB	EX	PT	GYP	PT	EX	PT	EX	PT	ACP-1	FF	8' - 8"	Notes 1-3
PE-07	SECRATARY OFFICE	HVT	FF	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-1	FF	8' - 8"	Notes 1-2
PE-08	CONFERENCE ROOM	HVT	FF	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-1	FF	8' - 8"	Notes 1-2
PE-09	VESTIBULE	HVT	FF	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-1	FF	8' - 8"	Notes 1-2
PE-10	TOILET ROOM	CT	FF	CT	CT	FF	CT	FF	CT	FF	CT	FF	ACP-1	FF	8' - 8"	Notes 1-2
PE-11	VESTIBULE	HVT	FF	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-1	FF	8' - 8"	Notes 1-2
PE-12	TOILET ROOM	CT	FF	CT	CT	FF	CT	FF	CT	FF	CT	FF	ACP-1	FF	8' - 8"	Notes 1-2
PE-13	STORAGE	CONC	PT	VWB	GYP	PT	GYP	FF	GYP	FF	GYP	FF	-	PT		Notes 1-2
PE-14	OFFICE	HVT	FF	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-1	FF	8' - 8"	Notes 1-2
PE-14A	TOILET	CT	FF	CT	CT	FF	CT	FF	CT	FF	CT	FF	ACP-1	FF	8' - 8"	Notes 1-2
PE-15	STORAGE	CONC	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-1	FF	8' - 8"	Notes 1-2
PE-15A	JANITOR CLOSET	CONC	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	-	-		Notes 1-2
PE-16	BOYS LOCKEROOM	EPOXY	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-2	FF	8' - 8"	Notes 1-2
PE-17	BOYS TEAM ROOM	EPOXY	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-2	FF	8' - 8"	Notes 1-2
PE-18	STORAGE	CONC	PT	VWB	GYP	PT	GYP	PT	GYP	PT	CMU	PT	-	-		Notes 1-2
PE-21	BOYS TEAM ROOM	EPOXY	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	ACP-2	FF	8' - 8"	Notes 1-2
PE-22	BOYS ROOM	CT	FF	CT	CT	FF	CT	FF	CT	FF	CT	FF	ACP-1	FF	8' - 8"	Notes 1-2
PE-23	STORAGE	CONC	PT	VWB	GYP	PT	GYP	PT	GYP	PT	GYP	PT	-	PT		Notes 1-2
PE-24	CLOSET	EX	EX	EX	EX	EX	EX	EX	EX	EX	GYP	PT	EX	EX		Notes 1-2
PE-24A	CLOSET	EX	EX	EX	EX	EX	GYP	PT	EX	EX	EX	EX	EX	EX		Notes 1-2
PE-25	FITNESS CENTER	RUBBER	FF	VWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	-	PT		Notes 1-2
PE-26	STORAGE	CONC	PT	VWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	-	PT		Notes 1-2
PE-27	MULTI-PURPOSE	RUBBER	FF	VWB	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	GYP/FRP	PT	-	PT		Notes 1-2
PE-28	STORAGE	RUBBER	FF	VWB	GY	PT	GY	PT	GYP	PT	GYP	PT	-	PT		Notes 1-2

GERNAL FINISH NOTES:
1. ALL INTERIOR FINISHES ARE TO MEET OR EXCEED THE REQUIREMENS OF NYSCRR PARTS 771&772
2. TAPE, SPACKLE AND SANE ALL GYPSUM BOARD WALLS PRIOR TO APPLYING NEW PAINT FINISH
3. PATCH AND REPAIR ANY EXISTING GYPSUM BD. WALLS PRIOR TO APPLYING NEW PAINT FINISH

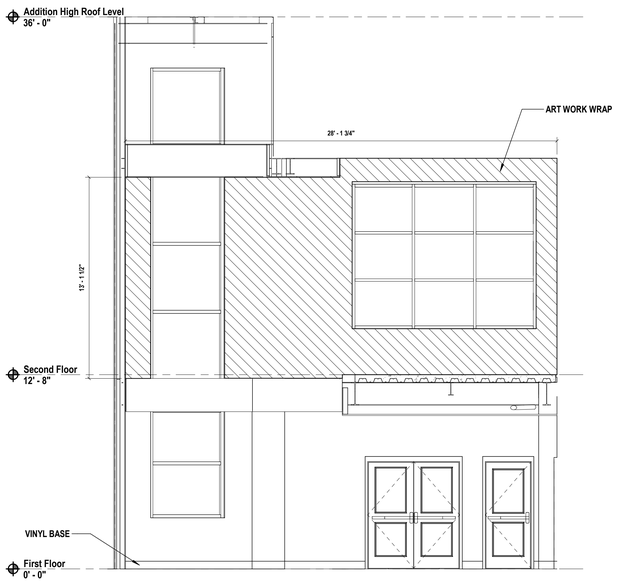
ABBREVIATIONS
ACP = ACOUSTIC CEILING PANELS
CONC = CONCRETE
CT = CERAMIC TILE
EX = EXISTING TO REMAIN
FF = FACTORY FINISH
FRP = FRP PANELS
GYP = GYPSUM BOARD
HVT = HOMOGENEOUS VINYL TILE
PT = PAINT
TWB = TERRAZZO TILE WALL BASE
VWB = VINYL WALL BASE



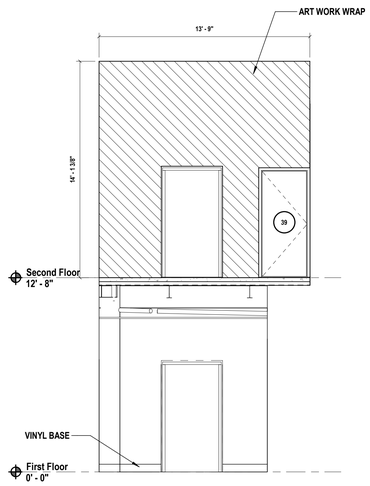
1 Typical Epoxy Cove Base
SCALE: 6" = 1'-0"



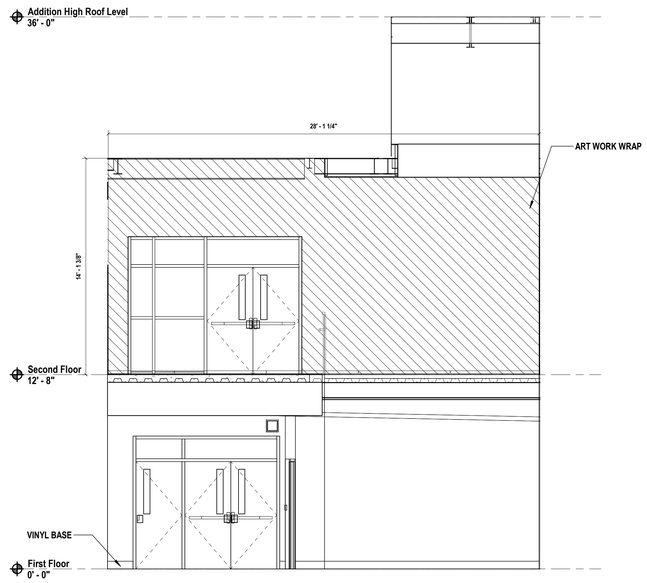
2 Typical Vinyl Wall Base
SCALE: 6" = 1'-0"



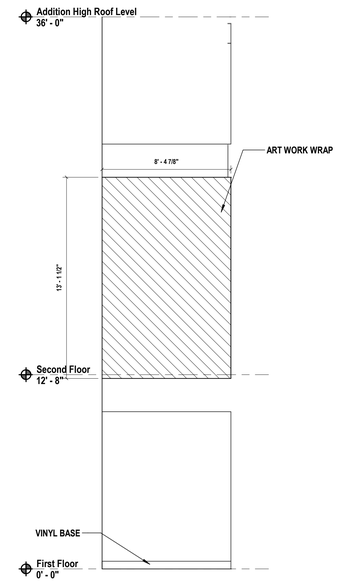
5 Interior Vestibule Elevation
SCALE: 1/4" = 1'-0"



6 Interior Vestibule Elevation
SCALE: 1/4" = 1'-0"



7 Interior Vestibule Elevation
SCALE: 1/4" = 1'-0"



8 Interior Vestibule Elevation
SCALE: 1/4" = 1'-0"

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Melville, NY 11747
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NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

REGISTERED ARCHITECT SAVERIO J. BELFIORE 033063 STATE OF NEW YORK

SAVERIO J. BELFIORE, R.A. Exp. Date
PROFESSIONAL ARCHITECT Lic. No. 033063

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • HARRISON CENTRAL SCHOOL DISTRICT • ADAPTABILITY • RIGOR

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
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STATUS
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SHEET TITLE
FINISH SCHEDULE AND DETAILS

DRAWING No.
A 601.00

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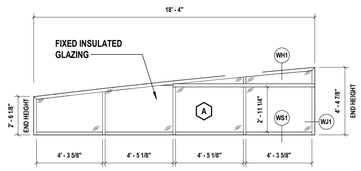
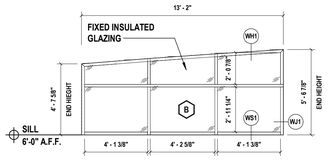
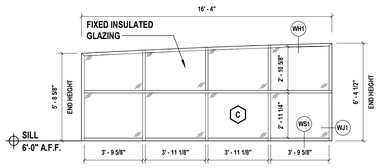


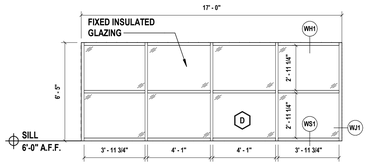
1 Window Elevation A
SCALE: 1/4" = 1'-0"



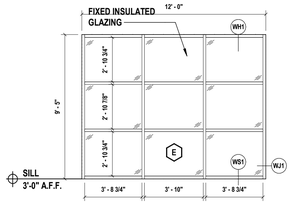
2 Window Elevation B
SCALE: 1/4" = 1'-0"



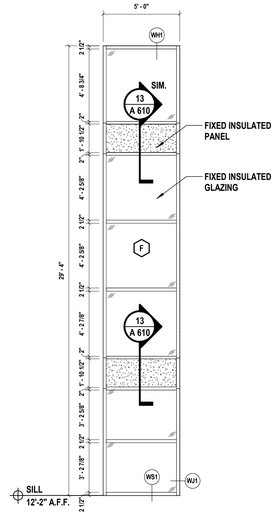
3 Window Elevation C
SCALE: 1/4" = 1'-0"



4 Window Elevation D
SCALE: 1/4" = 1'-0"



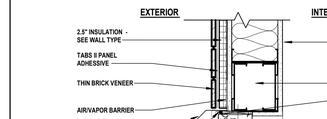
5 Window Elevation E
SCALE: 1/4" = 1'-0"



6 Window Elevation F
SCALE: 1/4" = 1'-0"

NOTE: 6" CURTAIN WALL SYSTEM USED FOR THIS WINDOW ONLY

SILL
6'-0" A.F.F.



7 Window Elevation G
SCALE: 1/4" = 1'-0"

9 Window Elevation H
SCALE: 1/4" = 1'-0"

10 Window Elevation I
SCALE: 1/4" = 1'-0"

11 Window Elevation J
SCALE: 1/4" = 1'-0"

12 Window Elevation K
SCALE: 1/4" = 1'-0"

SILL
19'-1" A.F.F.

13 Storefront Soffit Detail
SCALE: 1 1/2" = 1'-0"

8 Storefront Details
SCALE: 3" = 1'-0"

14 Curtain Wall Details
SCALE: 3" = 1'-0"

WH1 Window Head
H2M Ref # DH9A-008

WJ1 Window Jamb
H2M Ref # DJ9-008

WS1 Window Sill
H2M Ref # DJ9-008

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Melville, NY 11747
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NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION
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REGISTERED ARCHITECT SAVERIO J. BELFIORE 033063 STATE OF NEW YORK

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PROJECT No:	DATE:	SCALE:
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Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • HARRISON CENTRAL SCHOOL DISTRICT • ADAPTABILITY • RIGOR

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
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SHEET TITLE
WINDOW ELEVATIONS AND DETAILS

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DOOR SCHEDULE

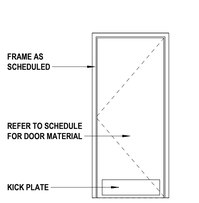
DOOR NO.	FROM ROOM NAME	FROM ROOM NUMBER	TO ROOM NAME	TO ROOM NUMBER	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SADDLE	FIRE RATING	HARDWARE SET	SECURITY ACCESS	SELF CLOSING	DOOR SIGNAGE	PANIC HARDWARE	COMMENTS
01	VESTIBULE	PE-01	EXTERIOR	-	1 3/4"	6	FRP	FF	HM	PT	DH1	DJ1	S2	90 MIN	HS-6	x	x	x	x	
02	VESTIBULE	PE-01	EXTERIOR	-	1 3/4"	3	FRP	FF	HM	PT	DH1	DJ1	S2	90 MIN	HS-6	x	x	x	x	
03	CORRIDOR	C-01	VESTIBULE	PE-01	1 3/4"	5	FRP	FF	HM	PT	DH7	DJ6	S1	90 MIN	HS-1		x	x	x	
04	VESTIBULE	PE-01	CORRIDOR	C-01	1 3/4"	2	FRP	FF	HM	PT	DH7	DJ6	S1	90 MIN	HS-1		x	x	x	
05	CORRIDOR	C-01	STORAGE	PE-05	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	45 MIN	HS-2		x	x		
06	CORRIDOR	C-01	TOILET	PE-03	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	45 MIN	HS-9		x	x		
07	CORRIDOR	C-01	TOILET	PE-04	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	45 MIN	HS-9		x	x		
08	CORRIDOR	C-01	CONFERENCE ROOM	PE-08	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	45 MIN	HS-5		x	x		
09	CONFERENCE ROOM	PE-08	EX. ATHELTIC DIRECTOR OFFICE	PE-06	1 1/2"	1	WD	FF	HM	PT	DH5	DJ5	S1	90 MIN	HS-3		x	x		
10	CONFERENCE ROOM	PE-08	VESTIBULE	PE-09	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-5		x	x		
11	VESTIBULE	PE-09	TOILET ROOM	PE-10	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-9		x	x		
12	CONFERENCE ROOM	PE-08	VESTIBULE	PE-11	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-5		x	x		
13	VESTIBULE	PE-11	TOILET ROOM	PE-12	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-9		x	x		
14	PRACTICE GYM	EX-3	CONFERENCE ROOM	PE-08	1 1/2"	1	WD	FF	HM	PT	DH5	DJ5	S1	90 MIN	HS-5		x	x		GYM WALL PADDING TO BE INSTALLED ON DOOR TO MATCH EXISTING
15			STORAGE	PE-13	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	90 MIN	HS-2		x	x		GYM WALL PADDING TO BE INSTALLED ON DOOR TO MATCH EXISTING
16	CORRIDOR	EX-1	CORRIDOR	C-01	1 3/4"	5	FRP	FF	HM	PT	DH6	DJ6	S1	90 MIN	HS-1		x	x	x	
17	CORRIDOR	C-01	CORRIDOR	EX-1	1 3/4"	2	FRP	FF	HM	PT	DH6	DJ6	S1	90 MIN	HS-1		x	x	x	
18	CORRIDOR	C-01	BOYS LOCKEROOM	PE-16	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	45 MIN	HS-5		x	x		
19	BOYS LOCKEROOM	PE-16	JANITOR CLOSET	PE-15A	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	45 MIN	HS-2		x	x		
20	EXISTING GYM	EX-2	STORAGE	PE-15	1 1/2"	1	WD	FF	HM	PT	DH5	DJ5	S1	90 MIN	HS-5		x	x		GYM WALL PADDING TO BE INSTALLED ON DOOR TO MATCH EXISTING
21	TOILET	PE-14A	OFFICE	PE-14	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1	45 MIN	HS-9		x	x		
22	OFFICE	PE-14	BOYS LOCKEROOM	PE-16	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	s1	45 MIN	HS-5		x	x		
23	BOYS TEAM ROOM	PE-17	BOYS LOCKEROOM	PE-16	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1	-	HS-5		x	x		
24	EXISTING GYM	EX-2	STORAGE	PE-18	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-5		x	x		GYM WALL PADDING TO BE INSTALLED ON DOOR TO MATCH EXISTING
25	VESTIBULE	C-02	EXTERIOR	-	1 3/4"	2	FRP	FF	HM	PT	DH1	DJ1	S2	-	HS-6		x	x	x	
26	BOYS LOCKEROOM	PE-16	VESTIBULE	C-02	1 1/2"	6	WD	FF	HM	PT	DH2	DJ2	S1		HS-1		x	x	x	
27	BOYS LOCKEROOM	PE-16	BOYS ROOM	PE-22	1 1/2"	2	WD	FF	HM	PT	DH2	DJ2	S1		HS-8		x	x		
28	BOYS LOCKEROOM	PE-16	VESTIBULE	C-03	1 1/2"	2	WD	FF	HM	PT	DH2	DJ2	S1		HS-3		x	x		
29	VESTIBULE	C-03	CORRIDOR	C-04	1 1/2"	2	WD	FF	HM	PT	DH2	DJ2	S1		HS-5		x	x		
30	CORRIDOR	C-05	CORRIDOR	C-04	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1		HS-5		x	x		
31	BOYS TEAM ROOM	PE-21	CORRIDOR	C-05	1 1/2"	1	WD	FF	HM	PT	DH3	DJ3	S1		HS-5		x	x		
32	EXISTING GYM	EX-2	CORRIDOR	C-05	1 1/2"	1	WD	FF	HM	PT	DH5	DJ5	S1	90 MIN	HS-5		x	x		GYM WALL PADDING TO BE INSTALLED ON DOOR TO MATCH EXISTING
33	CORRIDOR	C-04	STAIR	C-06	1 1/2"	2	WD	FF	HM	PT	DH4	DJ4	S1	90 MIN	HS-5		x	x	x	
34	STORAGE	PE-23	EXTERIOR	-	1 3/4"	2	FRP	FF	HM	PT	DH1	DJ1	S2	-	HS-7A		x	x		
35	CORRIDOR	C-04	STORAGE	PE-23	1 1/2"	2	WD	FF	HM	PT	DH2	DJ2	S1	45 MIN	HS-2		x	x		
36	VESTIBULE	C-07	CLOSET	PE-24	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-2		x	x		
36A	VESTIBULE	C-07	CLOSET	PE-24A	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-2		x	x		
37	VESTIBULE	C-07	EXTERIOR	-	1 1/2"	1	FRP	FF	HM	PT	DH5	DJ5	S1		HS-6		x	x	x	
38	MULTI-PURPOSE	PE-27	VESTIBULE	EX-08	1 3/4"	6	WD	FF	HM	PT	DH6	DJ6	S1	90 MIN	HS-5		x	x		
39	VESTIBULE	EX-08	FITNESS CENTER	PE-25	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-5		x	x		
40	MULTI-PURPOSE	PE-27	FITNESS CENTER	PE-25	1 1/2"	6	WD	FF	HM	PT	DH2	DJ2	S1		HS-5		x	x		
41	STORAGE	PE-26	FITNESS CENTER	PE-25	1 1/2"	1	WD	FF	HM	PT	DH2	DJ2	S1		HS-2		x	x		
42	FITNESS CENTER	PE-25	STAIR	C-06	1 1/2"	2	WD	FF	HM	PT	DH4	DJ4	S1	90 MIN	HS-5		x	x		

ABBREVIATIONS:

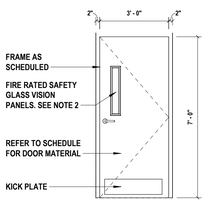
HM = HOLLOW METAL
ALUM = ALUMINUM
FRP = FIBER REINFORCED POLYMER
FF = FACTORY FINISH
PT = PAINT
WD = WOOD
EX = EXISTING TO REMAIN
GL = GLASS

GENERAL DOOR NOTES:

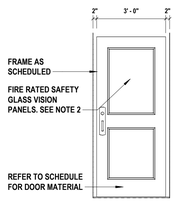
1. REFER TO CONTRACT SPECIFICATIONS FOR HARDWARE SETS
2. ALL EXTERIOR DOORS AND INTERIOR DOORS IN FIRE-RATED PARTITIONS SHALL BE SELF-CLOSING AND SELF-LATCHING.
3. CONTRACT 'G' SHALL COORDINATE WITH CONTRACT 'E' IN PROVIDING ACCESS CONTROL PROVISIONS AT NEW DOOR AND FRAME INSTALLATIONS AS INDICATED.
4. ALL DOOR FRAMES TO BE SET 4" FROM FINISHED WALL SURFACE UNLESS DIMENSIONED OR NOTED OTHERWISE.
5. ALL INTERIOR DOORS SHALL HAVE 1/2" UNDERCUT. UNDERCUT SHALL BE MEASURED FROM THE TOP OF SADDLE. CONTRACTOR TO VERIFY AND COORDINATE WITH FINISHES. TACTILE EXIT SIGNAGE SHALL BE PROVIDED ADJACENT TO EACH DOOR SERVING AN EXIT STAIRWAY , EXIT PASSAGEWAY OR EXIT DISCHARGE AS DETERMINED BY THE FIRE MARSHAL/AUTHORITY HAVING JURISDICTION.
6. ALL DOORS WITHIN MASONRY WALL SHALL HAVE A 4" HEAD.
7. OWNER WILL BE INSTALLING ACCESS CONTROL WIRING AT ALL DOORS RECEIVING ELECTRIC STRIKES. CONTRACTOR TO PROVIDE CONDUIT AND DRAG LINE FROM STRIKE TO ABOVE ACOUSTICAL CEILING SYSTEM.
8. ALL DOORS FROM PLACES OF ASSEMBLY (ROOMS WITH GREATER THAN 50 PERSONS) SEE CODE PLAN, ARE TO RECEIVE PANIC DEVICE HARDWARE
9. PROVIDE MAGNETIC DOOR HOLD. DOOR(S) SHALL OPEN PAST 90 DEGREES AS REQUIRED FOR INSTALLATION.



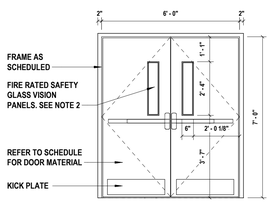
Door Type 1
SCALE: 3/8" = 1'-0"



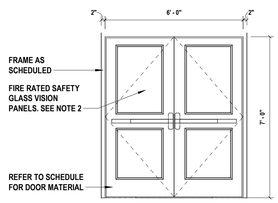
Door Type 2
SCALE: 3/8" = 1'-0"



Door Type 3
SCALE: 3/8" = 1'-0"

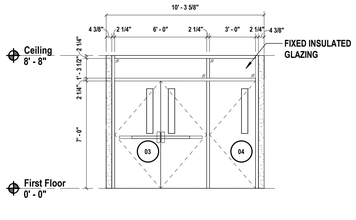


Door Type 5
SCALE: 3/8" = 1'-0"

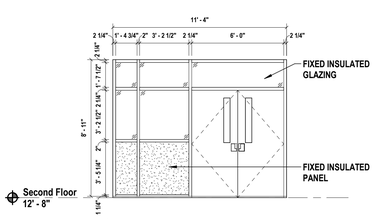


Door Type 6
SCALE: 3/8" = 1'-0"

NOTE: 1. INTERIOR GLAZING SHALL COMPLY WITH NFPA 80 OR ASTM E119. SEE FIRE RESISTANCE RATED GLAZING (GL-3) IN SPECIFICATION SECTION 088000.
2. FOR ALL DOORS THAT ARE NOT SET IN A FIRE RATED WALL, IMPACT SAFETY RATED GLASS SHALL BE REQUIRED IN LIEU OF FIRE RATED SAFETY GLASS



2 Storefront Elevation
SCALE: 1/4" = 1'-0"



7 Storefront Elevation
SCALE: 1/4" = 1'-0"

H 2 M architects + engineers

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Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

REGISTERED ARCHITECT SAVERIO J. BELFIORE STATE OF NEW YORK 033063

SAVERIO J. BELFIORE, R.A. Exp. Date
PROFESSIONAL ARCHITECT Lic. No. 033063

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY • ACCESS • HARRISON CENTRAL SCHOOL DISTRICT • RIGOR • ADAPTABILITY

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
CONTRACT G GENERAL CONSTRUCTION

STATUS
FINAL BID DOCUMENT

SHEET TITLE
DOOR SCHEDULE AND DOOR TYPES

DRAWING No.
A 620.00

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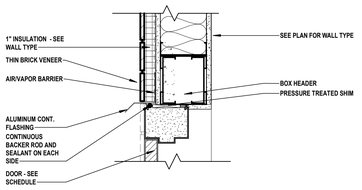
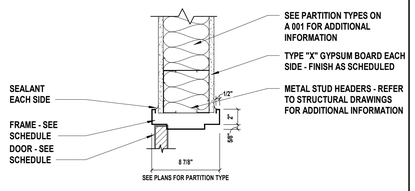


DH1 Door Head

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

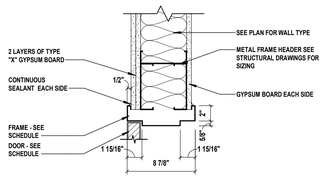
H2M Ref # DH3A-008



DH2 Door Head

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

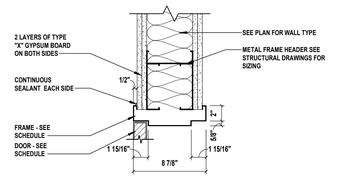
H2M Ref # DH9-134



DH3 Door Head

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

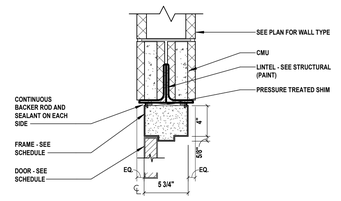
H2M Ref # DH9-134



DH4 Door Head

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

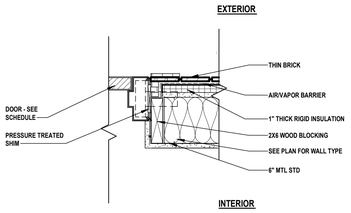
H2M Ref # DH9-134



DH5 Door Head

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

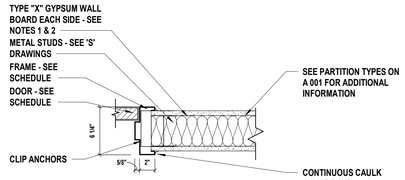
H2M Ref # DH9-134



DJ1 Door Jamb

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

H2M Ref # DJ9-008

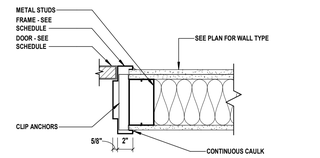


NOTE:
1. TYPE 'X' MOISTURE RESISTANT GYPSUM BOARD AT ALL WET WALL LOCATIONS
2. TILE FINISH NOT SHOWN FOR CLARITY

DJ2 Door Jamb

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

H2M Ref # DJ69-134



DJ3 Door Jamb

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

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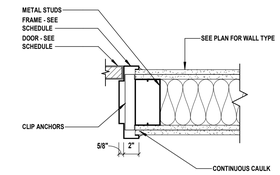
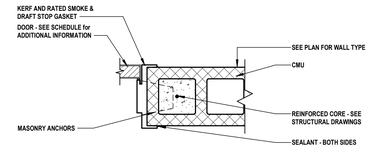


DJ4 Door Jamb

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

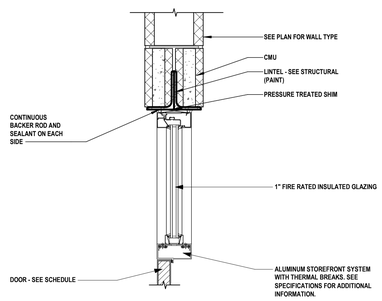
H2M Ref # DJ69-134



DJ5 Door Jamb

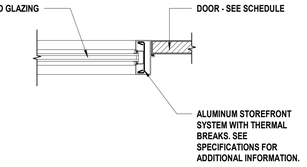
SCALE: 1 1/2" = 1'-0"

H2M Ref # DJ69-134



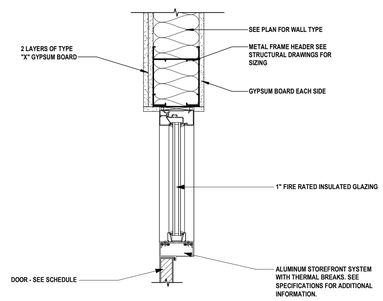
DH6 Door Head

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



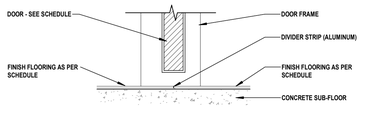
DJ6 Door Jamb

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



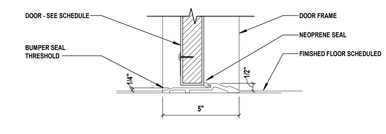
DH7 Door Head

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



DS1 Saddle Detail

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



DS2 Saddle Detail

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

H2M architects + engineers

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CONSULTANTS:

MARK	DATE	DESCRIPTION
	03/27/2026	SED SUBMISSION

REGISTERED ARCHITECT SAVERIO J. BELFIORE 033063 STATE OF NEW YORK

SAVERIO J. BELFIORE, R.A. — Exp. Date
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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
K. KUPLICKI	E. MORRA	K. KUPLICKI	S. BELFIORE

PROJECT No:	DATE:	SCALE:
HCSD2401E	JUNE 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

FINAL BID DOCUMENT

SHEET TITLE

DOOR DETAILS

DRAWING No.

A 621.00

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SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
1 VIEW TITLE / SCALE: NTS	-	PLAN TITLE NO. 1
1 / P2.1 TITLE / SCALE: NTS	-	TITLE MARK DETAIL VIEW NO. 1 FOUND ON SHEET M-2.1
1 / P7.1	-	DETAIL REFERENCE DETAIL NO. 1 FOUND ON SHEET M-7.1
1 / P-3.1	-	SECTION MARK SECTION VIEW NO. 1 FOUND ON SHEET M-3.1
1 / P4.1	-	ENLARGED VIEW CALLOUT PLAN VIEW NO. 1 FOUND ON SHEET M4.1
1	-	REVISION CLOUD (DELTA 1)
P / 1	-	RISER TAG
	EX.	EXISTING TO REMAIN
	-	NEW WORK
	DEM.	EXISTING TO BE REMOVED / DEMOLISH
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
#	-	SHEET KEYNOTE
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	V	VENT
	W	WASTE LINE
	SD	STORM DRAINAGE
	SPD	SUMP PUMP DISCHARGE
	-	TEE DOWN
	-	ELBOW DOWN
	-	TEE UP
	-	ELBOW UP
	-	PIPE CAP
	-	CONCENTRIC REDUCER
	-	ECCENTRIC REDUCER
	-	UNION
	-	BALL VALVE
	-	CIRCUIT SETTER
	CODP	CLEAN OUT DECK PLATE
	WCO	WALL CLEAN OUT
	-	FLOW ARROW
	HB	HOSE BIBB
	RD / ORD	ROOF DRAIN / OVERFLOW ROOF DRAIN
	FD	FLOOR DRAIN
	-	WALL HYDRANT
--	ADA	AMERICAN DISABILITIES ACT
--	AFF	ABOVE FINISHED FLOOR
--	AHJ	AUTHORITIES HAVING JURISDICTION
--	AP	ACCESS PANEL
--	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
--	ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
--	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
--	AWWA	AMERICAN WATER WORKS ASSOCIATION
--	DF	DRINKING FOUNTAIN
--	DIA, Ø	DIAMETER
--	DN	DOWN
--	EL	ELEVATION
--	FFE	FINISH FLOOR ELEVATION
--	FT	FEET
--	°F	DEGREES FAHRENHEIT
--	GAL	GALLON
--	GC	GENERAL CONTRACTOR
--	GPF	GALLONS PER FLUSH
--	GPH	GALLONS PER HOUR
--	GPM	GALLONS PER MINUTE
--	HR	HOUR
--	HZ	HERTZ
--	IE	INVERT ELEVATION
--	IN	INCH
--	JC	JANITOR'S CLOSET
--	L, LAV	LAVATORY
--	LB	POUND
--	MISC	MISCELLANEOUS
--	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
--	NFWH	NON-FREEZE WALL HYDRANT
--	NIC	NOT IN CONTRACT
--	NTS	NOT TO SCALE

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
--	PSI	POUNDS PER SQUARE INCH
--	RH	ROOF HYDRANT
--	SK	SINK
--	TP	TRAP PRIMER
--	TYP.	TYPICAL
--	UL	UNDERWRITERS LABORATORY
--	UON	UNLESS OTHERWISE NOTED
--	VIF	VERIFY IN FIELD
--	VTR	VENT THROUGH ROOF
--	WC	WATER CLOSET
--	WHA	WATER HAMMER ARRESTOR

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

1. THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
2. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
4. CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
5. PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
6. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
7. PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
8. PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 21/2".
9. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
10. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
11. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
12. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
13. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
14. PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
15. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
16. 16. NEW PIPING LAYOUT IS PREDICATED ON RECORD DRAWING DATA OF EXISTING RISERS AND DRAWINGS. MODIFICATIONS TO THE LAYOUT MAY BE REQUIRED DUE TO DIFFERENT ACTUAL CONDITIONS, OBSTRUCTIONS, INTERFERENCES, ETC.
17. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
18. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

APPLICABLE CODES AND STANDARDS

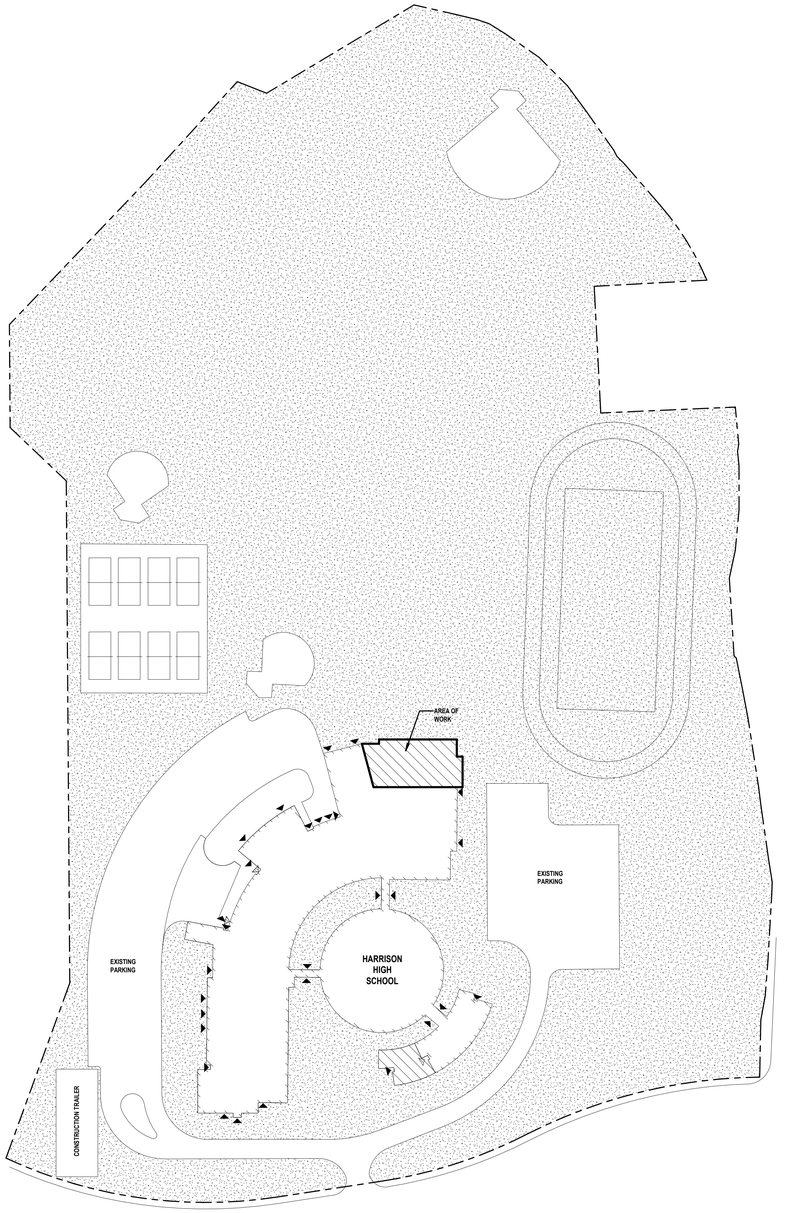
THIS PROJECT SHALL COMPLY WITH, BUT NOT LIMITED TO THE FOLLOWING CODES AND STANDARDS:

- 2025 BUILDING CODE OF NEW YORK STATE
- 2025 MECHANICAL CODE OF NEW YORK STATE
- 2025 CONSERVATION CONSTRUCTION ENERGY CODE OF NEW YORK STATE
- 2025 PLUMBING CODE OF NEW YORK STATE
- 2025 FUEL GAS CODE OF NEW YORK STATE
- 2025 FIRE CODE OF NEW YORK STATE
- 2023 NATIONAL ELECTRICAL CODE
- 2022 NEW YORK STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS FOR SCHOOL BUILDINGS
- ANY AND ALL LOCAL AMENDMENTS

SHEET INDEX

SHEET #	DRAWING TITLE	SCALE
P 001	PLUMBING ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES	NONE
P 100	PLUMBING PARTIAL UNDERGROUND DEMOLITION PLAN	3/16" = 1'-0"
P 101	PLUMBING PARTIAL FIRST FLOOR DEMOLITION PLAN	3/16" = 1'-0"
P 102	PLUMBING PARTIAL SECOND FLOOR DEMOLITION PLAN	3/16" = 1'-0"
P 200	PLUMBING PARTIAL UNDERGROUND CONSTRUCTION PLAN	3/16" = 1'-0"
P 201	PLUMBING PARTIAL FIRST FLOOR CONSTRUCTION PLAN	3/16" = 1'-0"
P 202	PLUMBING PARTIAL SECOND FLOOR CONSTRUCTION PLAN	3/16" = 1'-0"
P 203	PLUMBING PARTIAL ROOF CONSTRUCTION PLAN	3/16" = 1'-0"
P 501	PLUMBING PARTIAL RISER DIAGRAMS	NONE
P 601	PLUMBING SCHEDULES & DETAILS	NONE

TOTAL: 10



NORTH

1 SITE PLAN

SCALE: 1" = 100'-0"

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JC	JC	RJ	JT

PROJECT No:	DATE:	SCALE:
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PLUMBING ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

DRAWING No.

P 001.00

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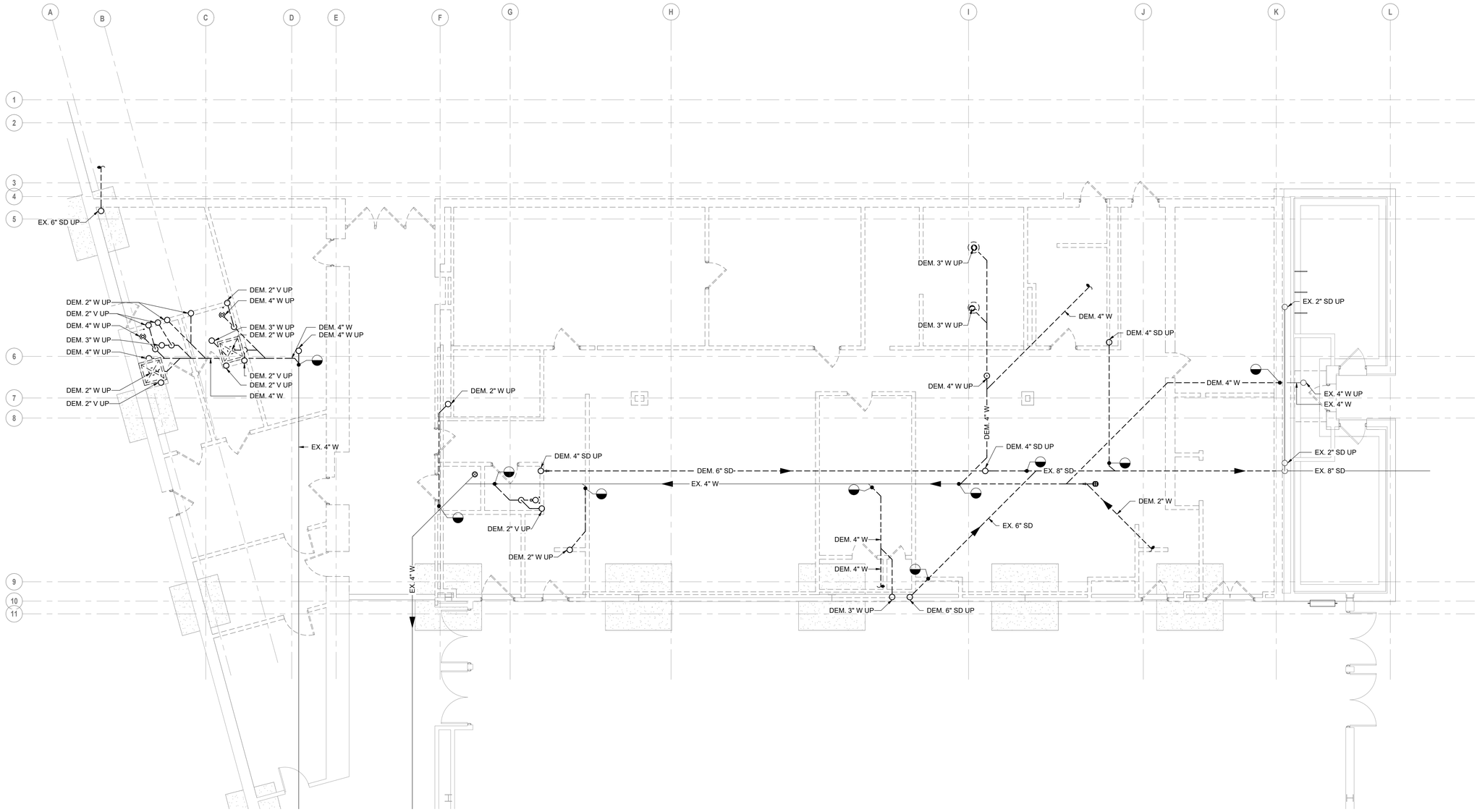
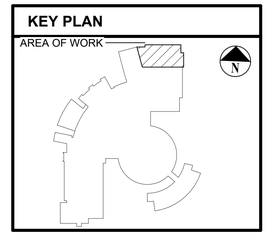


NORTH

1 PLUMBING PARTIAL UNDERGROUND DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

KEY PLAN



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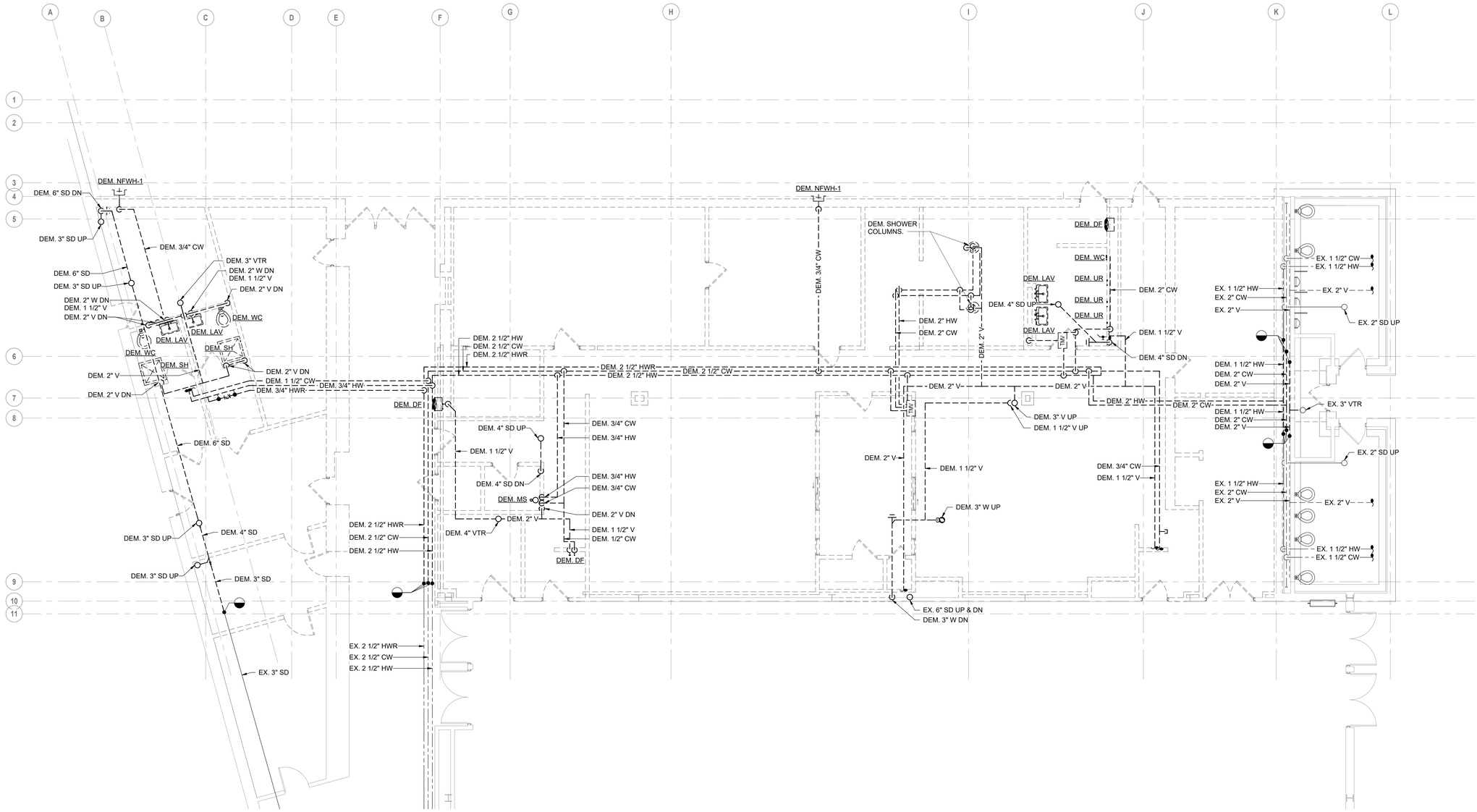
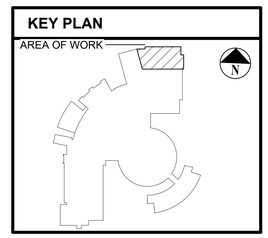


1 PLUMBING PARTIAL FIRST FLOOR DEMOLITION PLAN

NORTH

SCALE: 3/16" = 1'-0"

KEY PLAN



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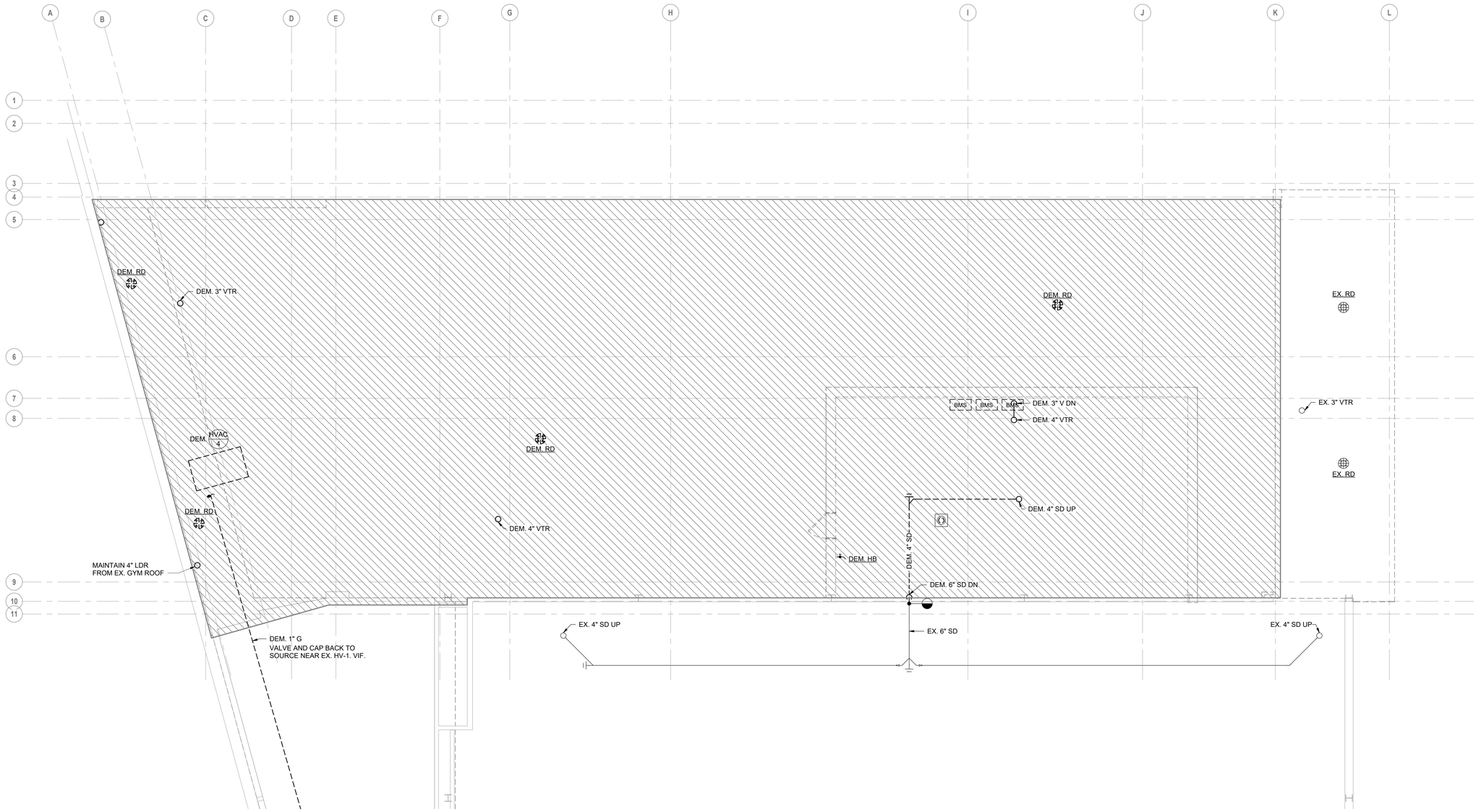
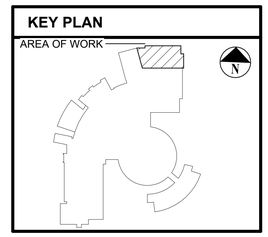


NORTH

1 PLUMBING PARTIAL SECOND FLOOR DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

KEY PLAN



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PLUMBING PARTIAL SECOND FLOOR DEMOLITION PLAN

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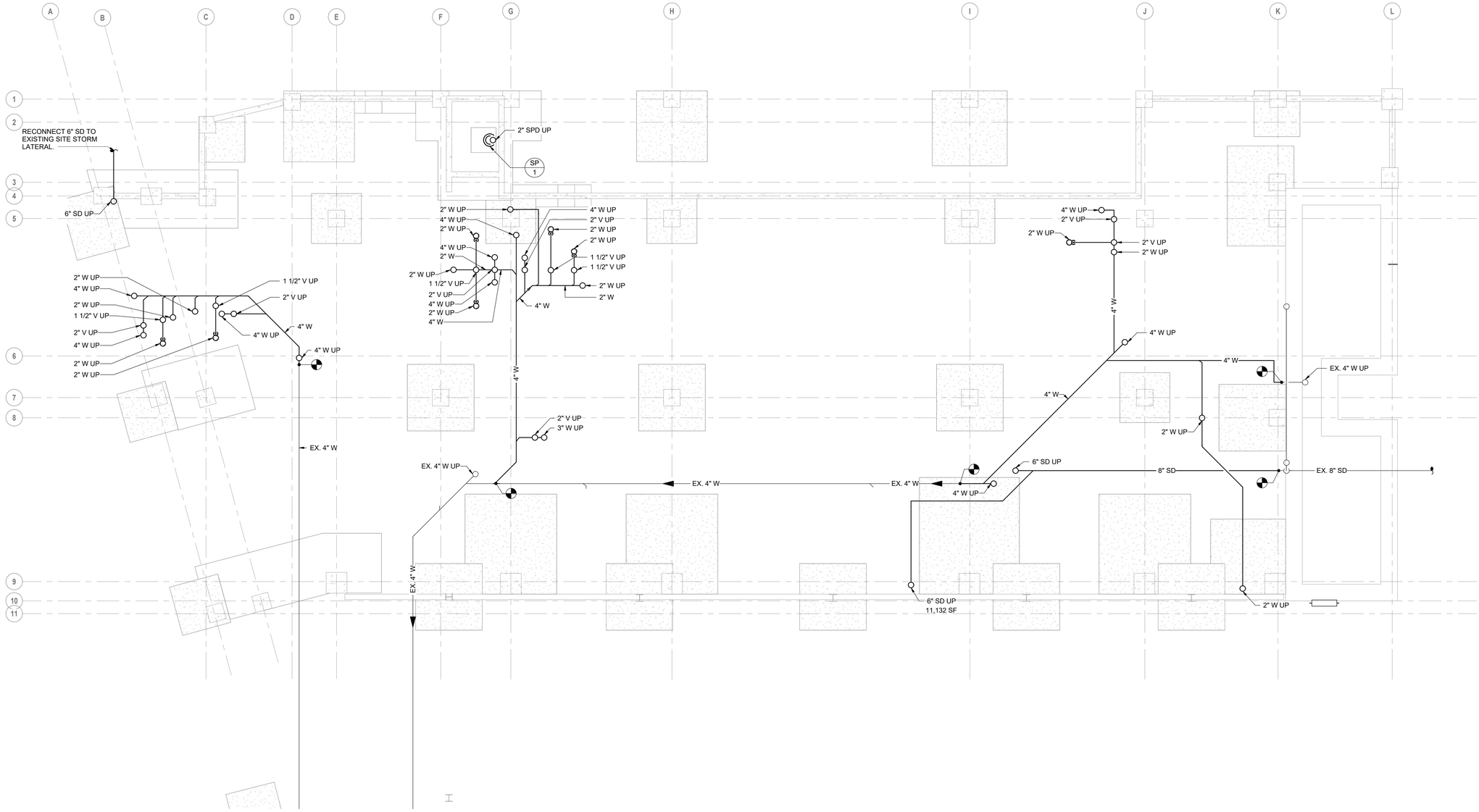
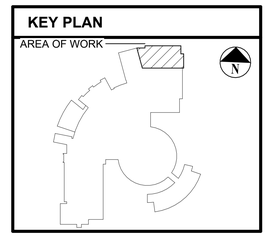


1 PLUMBING PARTIAL UNDERGROUND CONSTRUCTION PLAN

NORTH

SCALE: 3/16" = 1'-0"

KEY PLAN



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P 200.00

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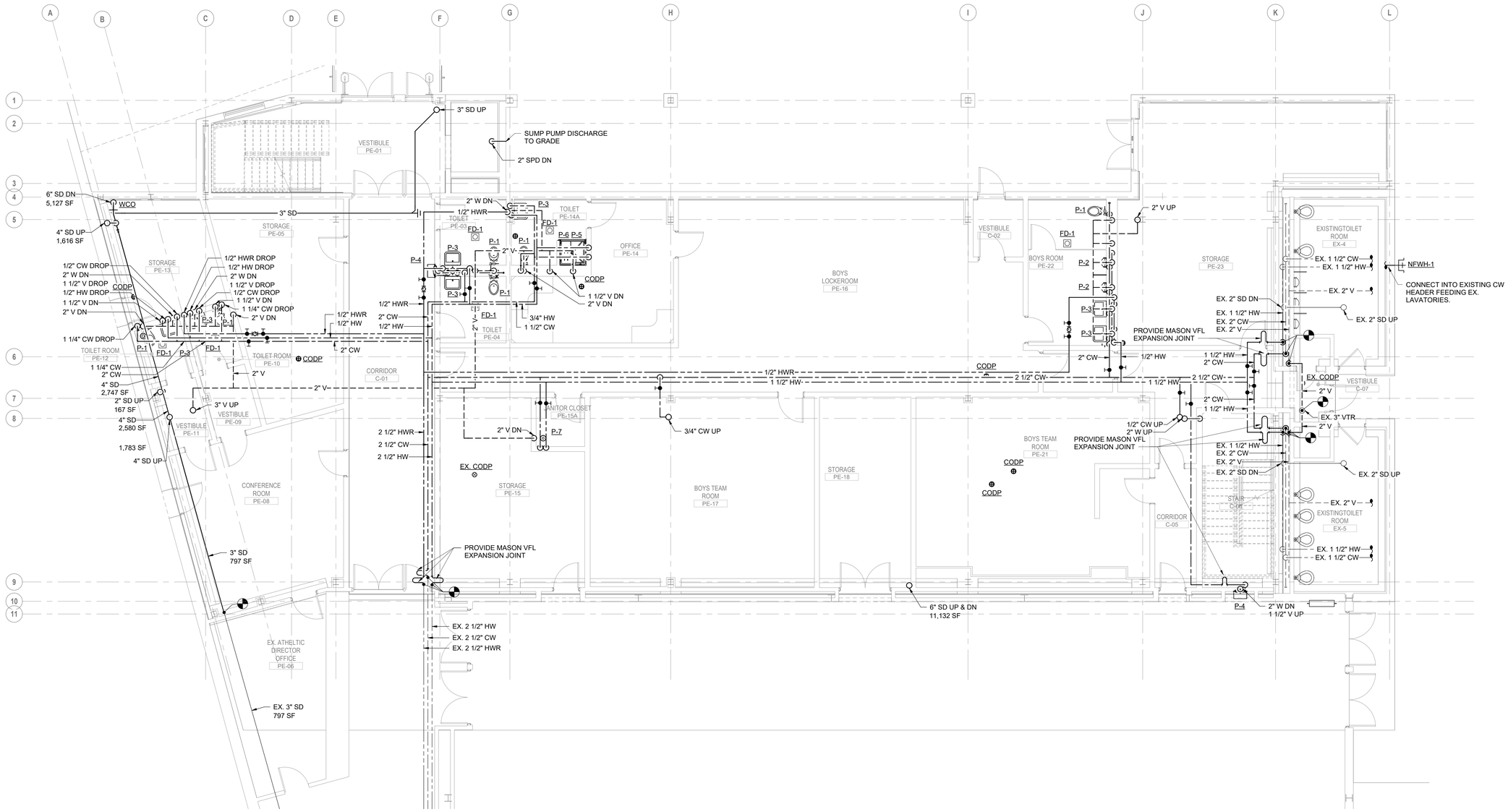


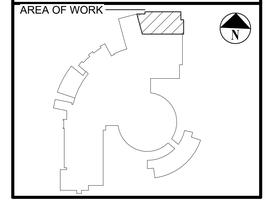
1 PLUMBING PARTIAL FIRST FLOOR CONSTRUCTION PLAN

NORTH

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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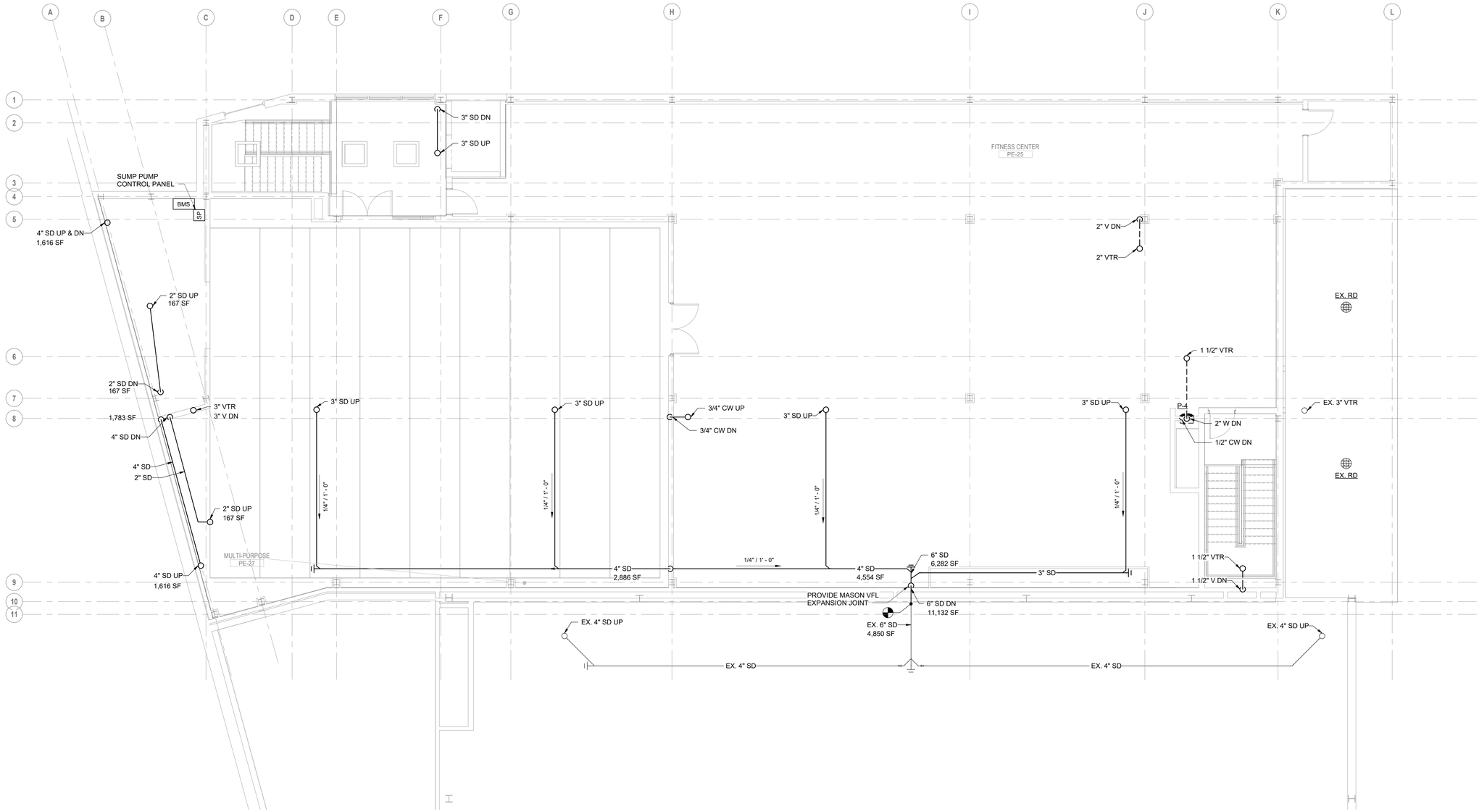
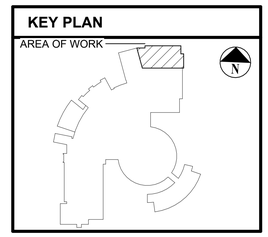


NORTH

1 PLUMBING PARTIAL SECOND FLOOR CONSTRUCTION PLAN

SCALE: 3/16" = 1'-0"

KEY PLAN



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PLUMBING PARTIAL SECOND FLOOR CONSTRUCTION PLAN

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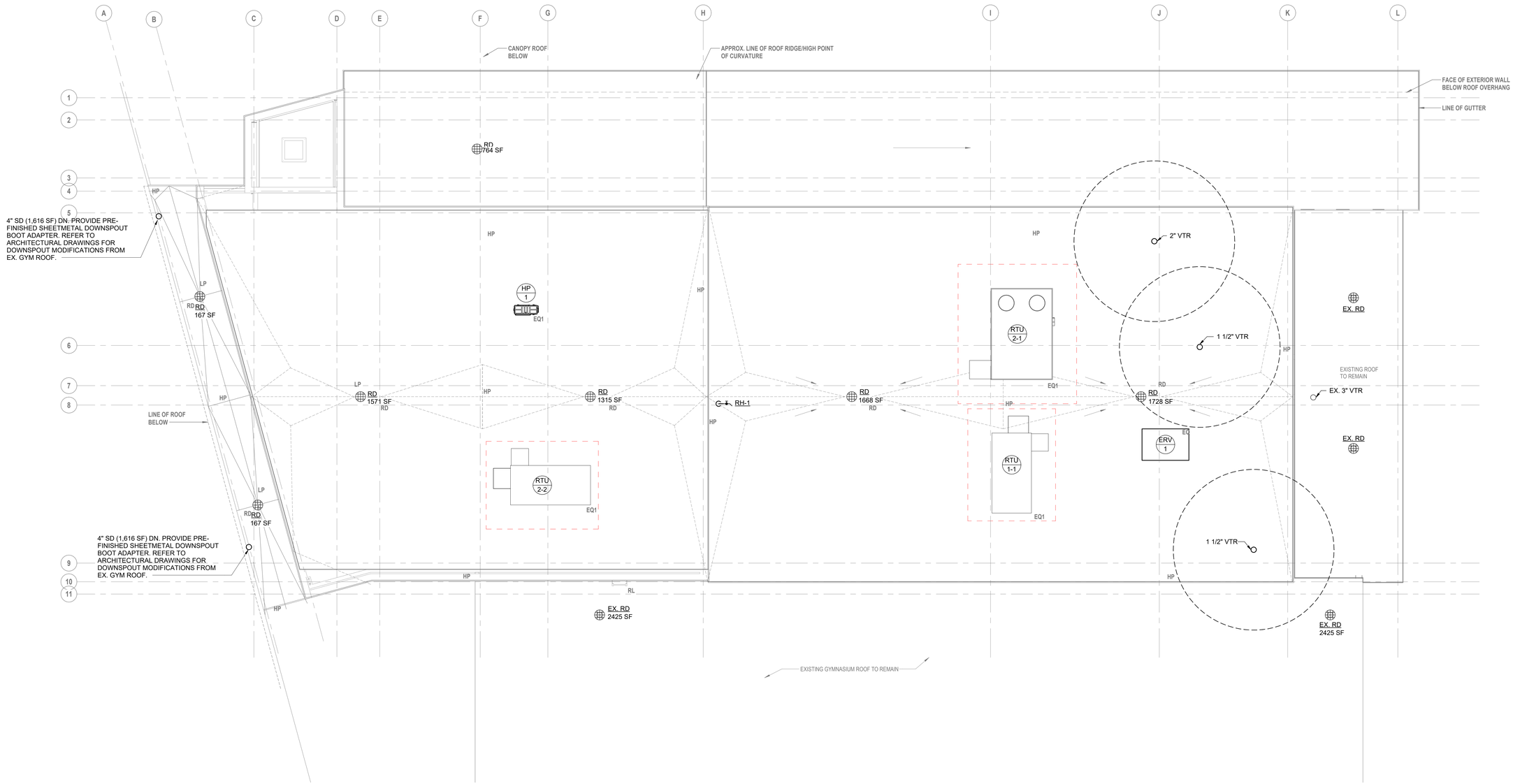


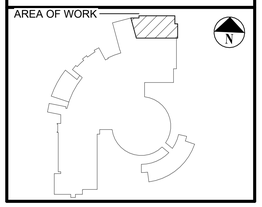
1 PLUMBING PARTIAL ROOF CONSTRUCTION PLAN

NORTH

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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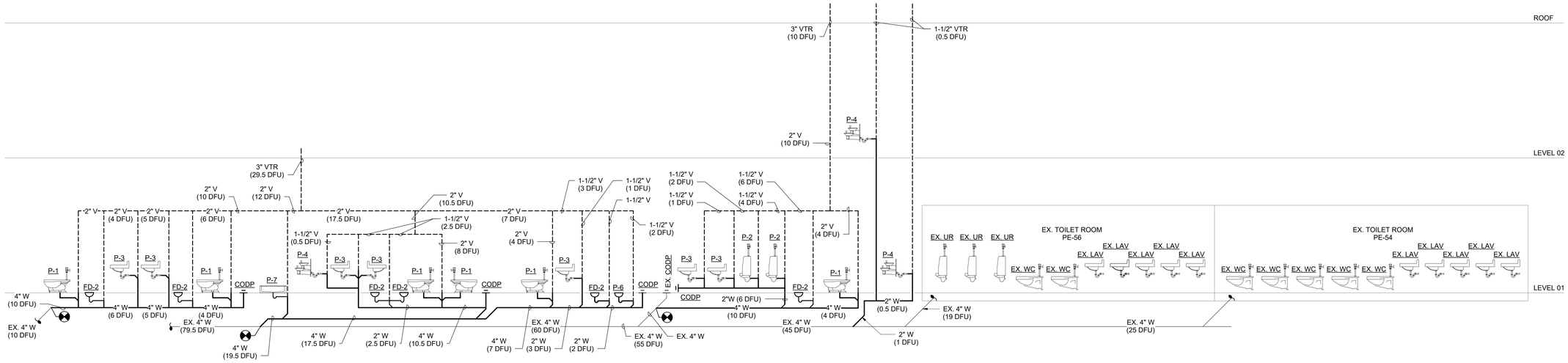
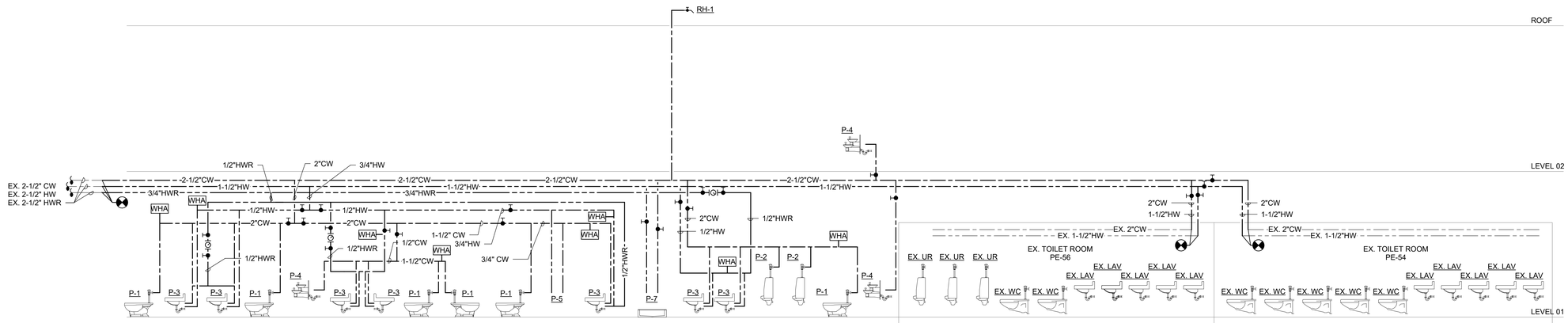


2 PARTIAL WASTE & VENT RISER DIAGRAM

SCALE: NONE



1 PARTIAL DOMESTIC WATER RISER DIAGRAM

SCALE: NONE

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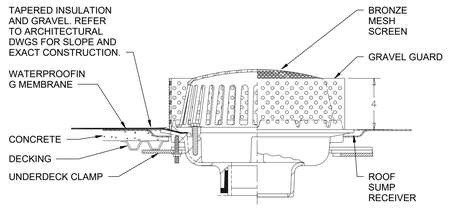
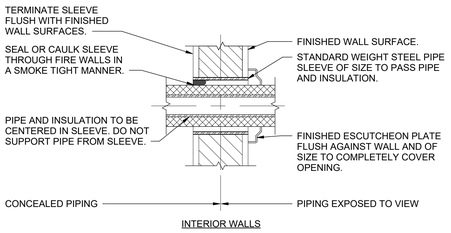


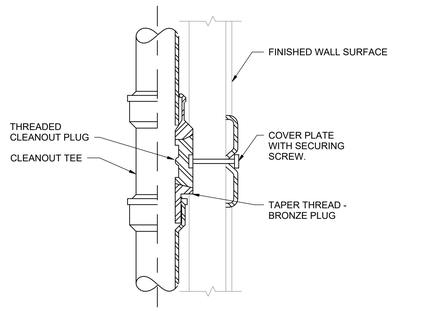
8 ROOF DRAIN DETAIL

SCALE: NONE



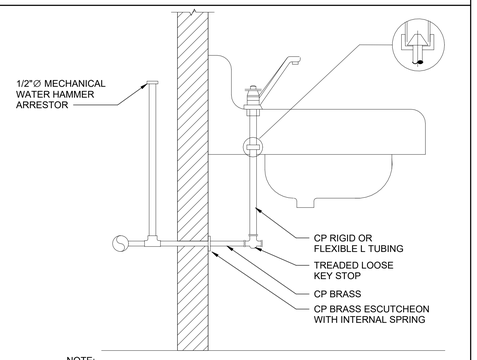
4 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS

SCALE: NONE



7 CLEANOUT CONCEALED BEHIND WALL DETAIL

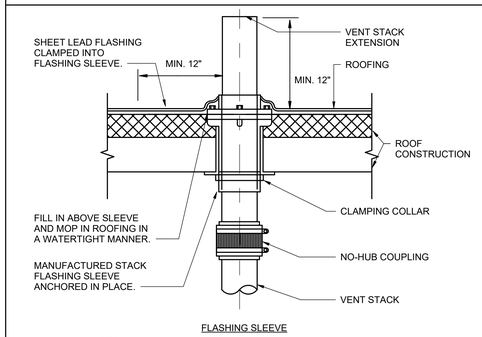
SCALE: NONE



NOTE:
1. SIMILAR SUPPLY ARRANGEMENT TO OTHER FIXTURES.

3 TYPICAL LAVATORY SUPPLY CONNECTION

SCALE: NONE

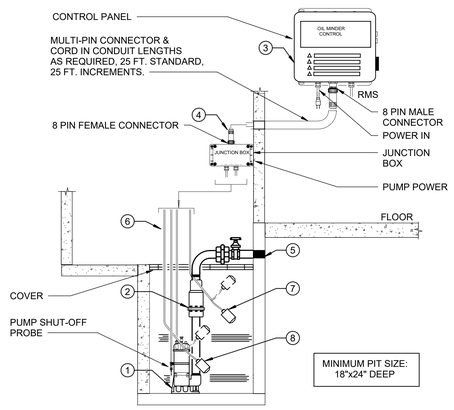


FLASHING SLEEVE

NOTE:
1. VENT STACK OUTLET TO BE 10 FT. (MIN) FROM ANY WALL OR STRUCTURE OR 3 FT. ABOVE STRUCTURE.

6 VENT THRU ROOF

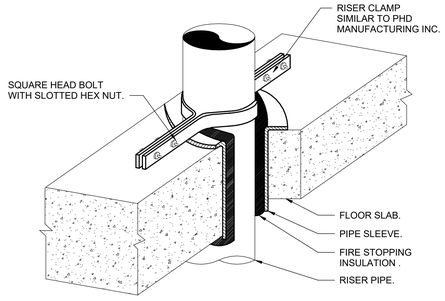
SCALE: NONE



1. STANCOR SUBMERSIBLE EFFLUENT PUMP, 2" DISCHARGE CONNECTION.
2. STANCOR CHECK VALVE.
3. STANCOR OIL MINDER 115V, 1Ø CONTROL SYSTEM WITH OPTIONAL BUILT-IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. A JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR & CORD LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTION 25 FT. INCREMENTS. LIGHTS FOR OIL SPILL, POWER, HIGH LIQUID LEVEL, OVERLOAD & PUMP RUN.
4. JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR & CORD LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTION 25 FT. INCREMENTS AVAILABLE.
5. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
6. OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE, & PUMP ON FLOAT CABLE.
7. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
8. PUMP ON FLOAT.
9. PROVIDE (2) 25 FT. LENGTH MULTI-PIN CONNECTOR AND CORD FOR CONNECTION BETWEEN PUMP AND CONTROL PANEL.

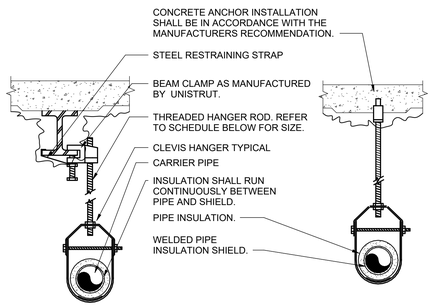
5 ELEVATOR SUMP PUMP DETAIL

SCALE: NONE



2 VERTICAL PIPE SUPPORT DETAIL

SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS ON ALL PIPES LARGER THAN 1".
2. FOR PIPE 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED FOR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

1 PIPE HANGER DETAIL

SCALE: NONE

PIPE MATERIAL TABLE

SERVICE	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIAL	TYPE / WEIGHT	STANDARD
DOMESTIC WATER PIPING (CW, HW, HWR)	ALL	COPPER	HARD TEMPER TYPE L	ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASTM B16.22
SANITARY, WASTE, VENT (ABOVE GROUND)	ALL	CAST IRON	HUBLESS	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	COMPRESSION GASKET JOINTS	ASTM C564
			SERVICE		CAST IRON	COUPLING	ASTM C564
SANITARY, WASTE, VENT (BELOW GROUND)	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888...	CAST IRON	COMPRESSION GASKET JOINTS	ASTM C564
STORM (ABOVE GROUND)	ALL	CAST IRON	HUBLESS	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	COMPRESSION GASKET JOINTS	ASTM C564
			SERVICE		CAST IRON	COUPLING	ASTM C564
STORM (BELOW GROUND)	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888...	CAST IRON	COMPRESSION GASKET JOINTS	ASTM C564
PUMP DISCHARGE	ALL	COPPER	HARD TEMPER TYPE L	ASTM B88	COPPER	WROUGHT COPPER BRAZED JOINT	ANSI 16.18

PLUMBING DRAINAGE SPECIALTIES SCHEDULE

TAG	FIXTURE	DESCRIPTION
WCO	WALL CLEANOUT	WALL CLEANOUT WITH CLEANOUT TEE AND CAST IRON BRONZE TAPER THREAD PLUG WITH STAINLESS STEEL ROUND WALL ACCESS COVER AND SCREW. ZURN Z-1468 OR APPROVED EQUAL
CODP	CLEANOUT DECKPLATE	ZURN Z-ZN-1400-NH-VP LEVEL TROL ADJUSTABLE LEVEL FLOOR CLEANOUT, DURA COATED CAST IRON BODY, WATER TIGHT ABS TAPERED THREAD PLUG, ROUND SCORIATED SECURED LIGHT-DUTY POLISHED NICKEL BRONZE TOP, VANDAL PROOF SCREWS. CLEANOUTS IN MEMBRANE FLOORS SHALL HAVE INTEGRAL FLANGES AND FLASHING CLAMPS.
FD-1	FLOOR DRAIN	FOR TOILET ROOMS AND GENERAL USE AREAS: WADE #W-1100-STD6-1-6-27 WITH 6" ROUND NICKEL-BRASS STAINER, SEDIMENT BUCKET, CAST IRON BODY, CAST IRON DRAINAGE FLANGE, FLASHING CLAMP, TRAP PRIMER TAP OR APPROVED EQUAL.
RD-1	ROOF DRAIN	JAY R SMITH MODEL 1010Y-E GENERAL PURPOSE ROOF DRAIN, LOW PROFILE DOME, DUCO CAST IRON BODY WITH EXTENSION, WITH COMBINED FLASHING CLAMP, GRAVEL STOP & POLYETHYLENE DOME, NO HUB OUTLET. PROVIDE UNDERDECK CLAMP AND STAINLESS STEEL MESH SCREEN OVER DOME.

PLUMBING WATER SPECIALTIES SCHEDULE

TAG	FIXTURE	DESCRIPTION
WHA	WATER HAMMER ARRESTOR	TYPE SA: WADE "SHOCKSTOP" BELLOWS TYPE, WITH ALL STAINLESS STEEL CONSTRUCTION, CHARGED WITH NITROGEN. PROVIDE ON ALL CW LINES TO WASHING MACHINES, SHOWERS AND ALL HORIZONTAL BRANCH LINES. RE: RISER.
HB-1	HOSE BIBB	IN FINISHED AREAS, WASHDOWN FAUCET SHALL BE POLISHED CHROME-PLATED WALL FAUCET WITH WALL FLANGE, 1/2" INLET, 3/4" HOSE THREAD OUTLET AND REMOVABLE LOOSE KEY T-HANGDLE: CHICAGO #293-6 WITH #E27 VACUUM BREAKER OR ACCEPTABLE EQUIVALENT
HB-2	HOSE BIBB	IN UNFINISHED SPACES, WASHDOWN FAUCET SHALL BE POLISHED CHROME-PLATED WALL FAUCET WITH 1/2" MALE INLET AND 3/4" HOSE THREAD OUTLET: CHICAGO #5 WITH #E27 VACUUM BREAKER OR ACCEPTABLE EQUIVALENT
NFWH-1	NON-FREEZE WALL HYDRANT	CAST BRASS, THREADED, NON-FREEZE, HEAVY-DUTY HYDRANT WITH NIKALOY BOX AND LOCKING COVER, BRASS OPERATING PARTS, 3/4" HPT HOSE OUTLET, 3/4" IPS OUTSIDE, ELBOW ADAPTER, "T" HANDLE KEY, AND INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER: WADE #8600. PIPING SERVING WH-1 TO BE ROUTED DN IN INTERIOR WALLS.
RH-1	ROOF HYDRANT	JAY R SMITH FIGURE 5907 NON FREEZE ROOF HYDRANT, WITH CHECK VALVE, GALVANIZED CASING AND ADJUSTABLE FLOW WHEEL LOCK HAND WITH DECK FLANGE AND UNDER DECK CLAMP.
TG-1	TRAP GUARD	PROSET TRAP GUARD, ELASTOMERIC PVC MATERIAL INSERT, OPEN ON TOP WITH CURL CLOSURE ON BOTTOM, SIZE TO MATCH DRAIN PIPE. (PROVIDE AT ALL FLOOR DRAINS)

1. FIXTURES SHALL BE COMPLETE WITH REQUIRED TRIM, INCLUDING BUT NOT LIMITED TO: SUPPORTS, FAUCETS, SUPPLIES, STOP VALVES, 17 GAUGE WASTE TAILPIECES, TRAPS, SEATS, FLUSHOMETER, VACUUM BREAKER, BOLTS, GASKETS, CHROME PLATED ESCUTCHEAONS, CAST BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VANDALPROOF.
2. EXPOSED METAL TRIM AND ROUGHING SHALL BE CHROME PLATED NICKEL BRASS. CHROME PLATED CAST BRASS 'P' TRAPS WITH SCREW PLUG CLEANOUT, SLIP-JOINT INLET AND FEMALE CAST SWIVEL THREADED ELBOW OUTLET. CHROME PLATED BRASS NIPPLE AT WALL WITH CHROME ESCUTCHEONS. SWING SPOUTS SHALL HAVE 140° SWING LIMIT STOPS.
3. SUPPORT WALL FIXTURES SECURELY ON APPROVED COMMERCIAL GRADE CARRIERS AS MANUFACTURED BY JAY R. SMITH, JOSAM, OR ZURN.
4. WHEREVER PIPING IS EXPOSED BELOW SINKS AND LAVATORIES, PROVIDE MANUFACTURED PLASTIC ENCLOSURES BY TRUEBRO FOR COVERING PLUMBING FIXTURE HOT AND COLD WATER SUPPLIES AND TRAP AND DRAIN PIPING. COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURES	ROUGH-IN CONNECTIONS				DESCRIPTION
		COLD WATER	HOT WATER	WASTE	VENT	
P-1	WATER CLOSET	1 1/4"		4"	2"	MANUFACTURER: AMERICAN STANDARD MODEL: 3461.001 COLOR/FINISH: WHITE NOTES: MADERA FLOWISE ELONGATED FLUSHOMETER TOILET WITH EVERCLEAN, VITREOUS CHINA, HIGH EFFICIENCY, 1.28 GPF, 2-1/8" FULLY GLAZED TRAPWAY, TRIP LEVER SHALL BE AWAY FROM WALL. COORDINATE WITH PLANS. SEAT: AMERICAN STANDARD 5905.100 EXTRA HEAVY DUTY OPEN FRONT LESS COVER TOILET SEAT WITH EVERCLEAN. FLUSH VALVE: SLOAN ROYAL 111-1.28 MANUAL FLUSH VALVE, 1-1/2" TOP SPUD BOWLS, ADA COMPLIANT.
P-2	URINAL	3/4"		2"	1 1/2"	MANUFACTURER: AMERICAN STANDARD MODEL: WASHBROOK FLOWISE UNIVERSAL URINAL SYSTEM #6590.001, 0.12. NOTES: 0.125 GPF EXPOSED TOP SPUD URINAL, VITREOUS CHINA, 3/4" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE, WASHOUT, EXTENDED SIDES FOR PRIVACY. PROVIDE CONCEALED WALL CARRIER AND SUPPORT, ADA COMPLIANT. FLUSH VALVE: SLOAN ROYAL 186-0.125-CP, 0.125 GPF EXPOSED MANUAL FLUSHOMETER FOR 3/4" TOP SPUD URINALS
P-3	LAVATORY, PUBLIC	1/2"	1/2"	2"	1 1/2"	MANUFACTURER: AMERICAN STANDARD MODEL: 0321.075 DECLYN WALL MOUNT LAVATORY, ADA COMPLIANT, WHITE VITREOUS CHINA, 4" CENTERSETS, CONCEALED ARM CARRIER MOUNTED IN WALL, 1-1/4" CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS ANGLE STOPS WITH LOOSE KEY OPERATOR, GRID DRAIN AND TAILPIECE, FLEXIBLE STAINLESS STEEL SUPPLY CONNECTIONS. FAUCET: MOEN 8886 4" CENTERSET METERING LAVATORY FAUCET, 0.5 GPM MAXIMUM, ADA COMPLIANT.
P-4	DRINKING FOUNTAIN	1/2"		2"	1 1/2"	MANUFACTURER: ELKAY MODEL: LZ8WSSSMC NOTES: EZH2O REFRIGERATED SURFACE MOUNT BOTTLE FILLING STATION, 8 GPH OF 50°F DRINKING WATER. ANTIMICROBIAL, FILTERED, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, ELECTRONIC BOTTLE FILLER SENSOR ACTIVATION. 115V/1PH, 5 FLA, 15 WATTS.
P-5	SHOWER VALVE	1/2"	1/2"			MANUFACTURER: ZURN MODEL: Z7120-SS-LH-HW TEMP-GARD SHOWER UNIT. NOTES: SINGLE HANDLE PRESSURE BALANCING MIXING SHOWER UNIT, WITH SINGLE BRONZE STEM, STAINLESS STEEL BALANCING PISTON INTEGRAL TO STEM ASSEMBLY, METAL LEVER HANDLE, INTEGRAL SERVICE STOPS, AND BRASS ADJUSTMENT LIMIT STOP SCREW IN CAP. COMPLETE WITH DOUBLE SEAL PACKING, ADJUSTABLE BRASS PACKING NUT, AND REMOVABLE BRASS SEATS; ALL EXPOSED TRIM WITH POLISHED NICKEL CHROME PLATED SURFACE. 1.8 GPM MAX FLOW RATE. INCLUDE ALL MOUNTING ADAPTERS AND ROUGH-IN HARDWARE.
P-6	SHOWER DRAIN			2"	1 1/2"	ZURN FD-1-NH2 ROUND TOP ADJUSTABLE SHOWER DRAIN, CAST IRON BODY, NO HUB BOTTOM OUTLET. PROVIDE WITH COMPATIBLE TRAP SEAL DEVICE.
P-7	SERVICE SINK	3/4"	3/4"	3"	2"	MANUFACTERER: KOHLER MODEL: K-6710, SERVICE SINK ENAMELED CAST IRON. NOTES: 3" OUTLET, CORNER MODEL. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS. PROVIDE ALL FITTINGS AS REQUIRED. FAUCET: KOHLER K-8307402-5A-CP, EXPOSED YOKE WALL-MOUNT UTILITY FAUCET, ADA COMPLIANT, TOP BRACE 6" CAST BRASS SPOUT WITH VACUUM BREAKER, CERAMIC DISC VALVES, INTEGRAL SUPPLY STOPS, VANDAL RESISTANT METAL LEVER HANDLES, BUCKET HOOK, ADJUST CENTER-TO-CENTER. FINISH TO BE COORDINATED WITH THE ARCHITECT.

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MARK	DATE	DESCRIPTION
	06-23-2026	ISSUED FOR BID

STATE OF NEW YORK · JOHN TORNE · 071678 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JC	JC	RJ	JT

PROJECT No:	DATE:	SCALE:
NH2M0009.00	06/23/2026	AS SHOWN

CLIENT
Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
CONTRACT P PLUMBING WORK

STATUS
FINAL BID DOCUMENTS

SHEET TITLE
PLUMBING SCHEDULES & DETAILS

DRAWING No.
P 601.00

Autodesk Docs://NH2M0009_HCSD Fitness Center Addition_R25/NH2M0009_MP_CENTRAL_R25.rvt
6/23/2026 11:29:29 AM

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
1 VIEW TITLE SCALE: NTS	-	PLAN TITLE NO. 1
1 / P2.1 TITLE SCALE: NTS	-	TITLE MARK DETAIL VIEW NO. 1 FOUND ON SHEET M-2.1
1 / P7.1	-	DETAIL REFERENCE DETAIL NO. 1 FOUND ON SHEET M-7.1
1 / P-3.1	-	SECTION MARK SECTION VIEW NO. 1 FOUND ON SHEET M-3.1
1 / P4.1	-	ENLARGED VIEW CALLOUT PLAN VIEW NO. 1 FOUND ON SHEET M4.1
1	-	REVISION CLOUD (DELTA 1)
	EX.	EXISTING TO REMAIN
	REL.	REMOVE AND RELOCATE
	-	NEW WORK
	DEM.	EXISTING TO BE REMOVED / DEMOLISH
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
#	-	SHEET KEYNOTE
T	-	THERMOSTAT
S	SD	SMOKE DETECTOR
	-	DOOR UNDER CUT
	-	DOOR LOUVER
	-	AIR INTO REGISTER
	CD	CEILING DIFFUSER
	RR / ER	RETURN REGISTER / GRILLE / EXHAUST REGISTER
	VAV	VARIABLE AIR VOLUME BOX
	VAV/CAV	VARIABLE AIR VOLUME BOX W/ REHEAT
	-	SUPPLY DUCT UP
	-	SUPPLY DUCT DOWN
	-	RETURN DUCT UP
	-	RETURN DUCT DOWN
	-	RECTANGULAR TO ROUND DUCT TRANSITION
	-	TRANSITION
	-	SQUARE VANED ELBOW
	FD/AD	FIRE DAMPER WITH ACCESS DOOR
	SD/AD	SMOKE DAMPER WITH ACCESS DOOR
	FSD/AD	COMBINATION FIRE/SMOKE DAMPER WITH ACCESS DOOR
	VD	VOLUME DAMPER
	(L)	ACOUSTIC LINING
6x8	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
	-	TEE DOWN
	-	ELBOW DOWN
	-	TEE UP
	-	ELBOW UP
	-	CONCENTRIC REDUCER
	-	ECCENTRIC REDUCER
	-	FLOW ARROW
	-	3-WAY VALVE
	-	2-WAY VALVE
	-	GATE VALVE
	-	BUTTERFLY VALVE
	-	BALANCING VALVE
	-	BALL VALVE
	-	CHECK VALVE
	-	STRAINER
	-	MANUAL AIR VENT
	-	AUTOMATIC AIR VENT
	-	UNION
--	ABV	ABOVE
--	ADA	AMERICAN DISABILITIES ACT
--	ADJ.	ADJUSTABLE
--	AFF	ABOVE FINISHED FLOOR
--	AHJ	AUTHORITIES HAVING JURISDICTION
--	AP	ACCESS PANEL
--	BDD	BACKDRAFT DAMPER
--	BHP	BRAKE HORSEPOWER
--	BLW	BELOW
--	BTUH	BRITISH THERMAL UNITS PER HOUR
--	CFM	CUBIC FEET PER MINUTE
--	CD, CNDS	CONDENSATE
--	COD	CABLE OPERATED DAMPER
--	CUH	CABINET UNIT HEATER
--	DB	DRY BULB
--	DDC	DIRECT DIGITAL CONTROL

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
--	DET	DETAIL
--	DIA, Ø	DIAMETER
--	DN	DN
--	DX	DIRECT EXPANSION
--	EA	EXHAUST AIR
--	EAT	ENTERING AIR TEMPERATURE
--	EER	ENERGY EFFICIENCY RATIO
--	EF	EXHAUST FAN
--	ESP	EXTERNAL STATIC PRESSURE
--	EWT	ENTERING WATER TEMPERATURE
--	FPM	FEET PER MINUTE
--	FT	FEET
--	FTR	FIN TUBE RADIATION
--	FV	FACE VELOCITY
--	°F	DEGREES FAHRENHEIT
--	GPM	GALLONS PER MINUTE
--	HG	HOT GAS
--	HP	HORSEPOWER, HEAT PUMP
--	HR	HOUR
--	HWR	HEATING HOT WATER RETURN
--	HWS	HEATING HOT WATER SUPPLY
--	HZ	HERTZ
--	IN.	INCH, INCHES
--	IN WG	INCHES WATER GAUGE
--	KW	KILOWATT
--	L	LOUVER
--	LAT	LEAVING AIR TEMPERATURE
--	LB	POUND
--	LF	LINEAR FEET
--	LWT	LEAVING WATER TEMPERATURE
--	MBH	1000 BRITISH THERMAL UNITS
--	MERV	MINIMUM EFFICIENCY REPORTING VALUE
--	NC	NORMALLY CLOSED, NOISE CRITERIA
--	NO	NORMALLY OPEN
--	NTS	NOT TO SCALE
--	OA	OUTSIDE AIR
--	PD	PRESSURE DROP, PUMP DISCHARGE
--	PSI	POUNDS PER SQURE INCH
--	RA	RETURN AIR
--	REQD	REQUIRED
--	RH	REHEAT COIL
--	RPM	REVOLUTIONS PER MINUTE
--	SA	SUPPLY AIR
--	SEER	SEASONAL ENERGY EFFICIENCY RATIO
--	SP	STATIC PRESSURE
--	SR	SUPPLY REGISTER
--	TA	TRANSFER AIR
--	TD	TRANSFER DUCT
--	TSP	TOTAL STATIC PRESSURE
--	TYP.	TYPICAL
--	UON	UNLESS OTHERWISE NOTED
--	VFD	VARIABLE FREQUENCY DRIVE
--	WB	WET BULB
--	WMS	WIRE MESH SCREEN

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

APPLICABLE CODES AND STANDARDS

THIS PROJECT SHALL COMPLY WITH, BUT NOT LIMITED TO THE FOLLOWING CODES AND STANDARDS:

- 2025 BUILDING CODE OF NEW YORK STATE
- 2025 MECHANICAL CODE OF NEW YORK STATE
- 2025 CONSERVATION CONSTRUCTION ENERGY CODE OF NEW YORK STATE
- 2025 PLUMBING CODE OF NEW YORK STATE
- 2025 FUEL GAS CODE OF NEW YORK STATE
- 2025 FIRE CODE OF NEW YORK STATE
- 2023 NATIONAL ELECTRICAL CODE
- 2022 NEW YORK STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS FOR SCHOOL BUILDINGS
- ANY AND ALL LOCAL AMENDMENTS

SED NOTES

1. THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.
2. GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
   A. ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
   B. FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
   C. GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
   D. DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
   E. WORKERS SHALL BE REQUIRE TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.
3. SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES. CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUCT AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUCT OR CONTAMINANTS. GYPSUM BOARD MUST BE USED TO EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPORT, FIND DUST OR AIR FILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.
   A. A SPECIFIC STAIRWELL AND/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIR OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.
   B. LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
   C. ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION.
4. CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTIC ABATEMENT MEASURES SHALL BE TAKEN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES 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.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OR VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED.
7. LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED IN 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED. NOTE, IT IS OUT INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NO PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEM MUST BE PHYSICALLY SPARATED AND SEALED AT THE ISOLATION BARRIER.

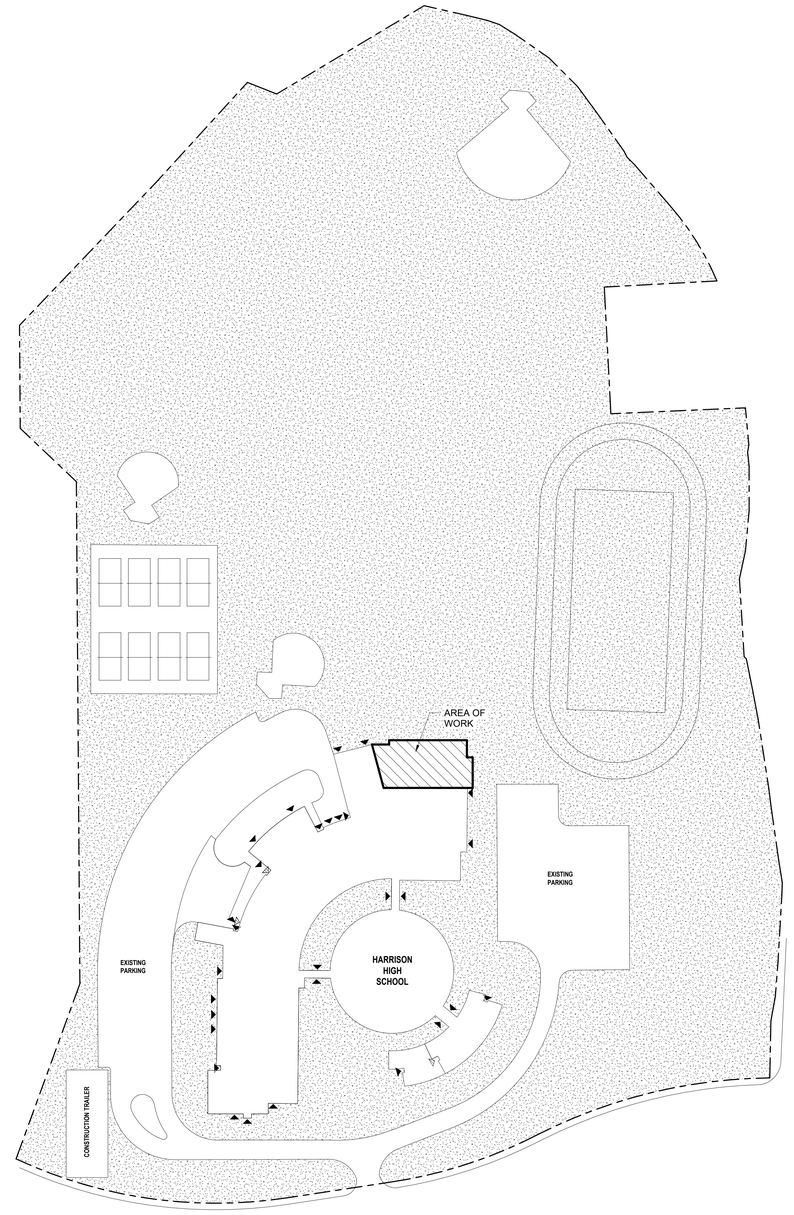
GENERAL NOTES

1. DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED THE CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK AND COORDINATE NEW WORK.
3. THE CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS WHETHER SPECIFICALLY SHOWN ON THE DRAWING OR NOT.
4. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL.
5. COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, ARCHITECTURAL ELEMENTS AND SHELVING.
6. THIS CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, DIFFUSERS, GRILLES, ETC.
7. CONTRACT DRAWINGS AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, PIPING AND SHEETMETAL, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO SHEETMETAL AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
8. PROVIDE CABLE OPERATED DAMPERS ON DUCTWORK ABOVE DRYWALL CEILINGS.
9. ALL RETURN DUCTWORK ENDING ABOVE HUNG CEILING TO HAVE 1/2"WMS.
10. SEE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.

SHEET INDEX

SHEET #	DRAWING TITLE	SCALE
M 001	MECHANICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES	NONE
M 101	MECHANICAL PARTIAL FIRST FLOOR DEMOLITION PLAN	3/16" = 1'-0"
M 102	MECHANICAL PARTIAL SECOND FLOOR DEMOLITION PLAN	3/16" = 1'-0"
M 201	MECHANICAL PARTIAL FIRST FLOOR CONSTRUCTION PLAN	3/16" = 1'-0"
M 202	MECHANICAL PARTIAL SECOND FLOOR CONSTRUCTION PLAN	3/16" = 1'-0"
M 203	MECHANICAL PARTIAL ROOF CONSTRUCTION PLAN	3/16" = 1'-0"
M 301	MECHANICAL PARTIAL FIRST FLOOR PIPING PLAN	3/16" = 1'-0"
M 302	MECHANICAL PARTIAL SECOND FLOOR PIPING PLAN	3/16" = 1'-0"
M 401	MECHANICAL PARTIAL PLANS - MAIN GYM RTU DUCTWORK	3/8" = 1'-0"
M 501	MECHANICAL HOT WATER RISER DIAGRAM	NONE
M 601	MECHANICAL SCHEDULES	NONE
M 602	MECHANICAL SCHEDULES	NONE
M 701	MECHANICAL DETAILS	NONE
M 702	MECHANICAL DETAILS	NONE

TOTAL: 14



1 SITE PLAN
NORTH
SCALE: 1" = 100'-0"

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JC	JC	RJ	JT

PROJECT No:	DATE:	SCALE:
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255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
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SHEET TITLE
MECHANICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

DRAWING No.
M 001.00

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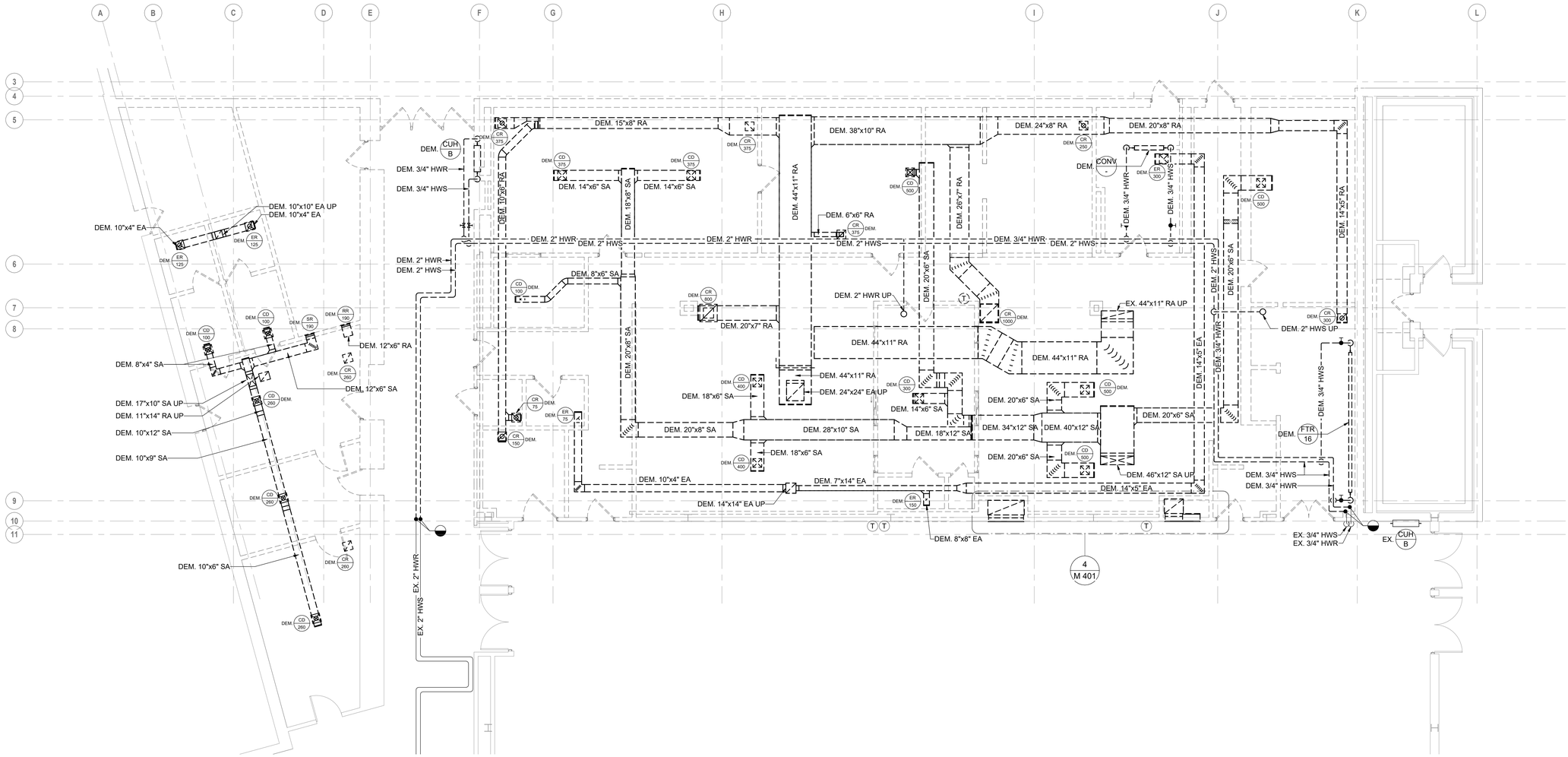


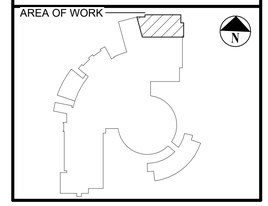
1 MECHANICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

NORTH

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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M 101.00

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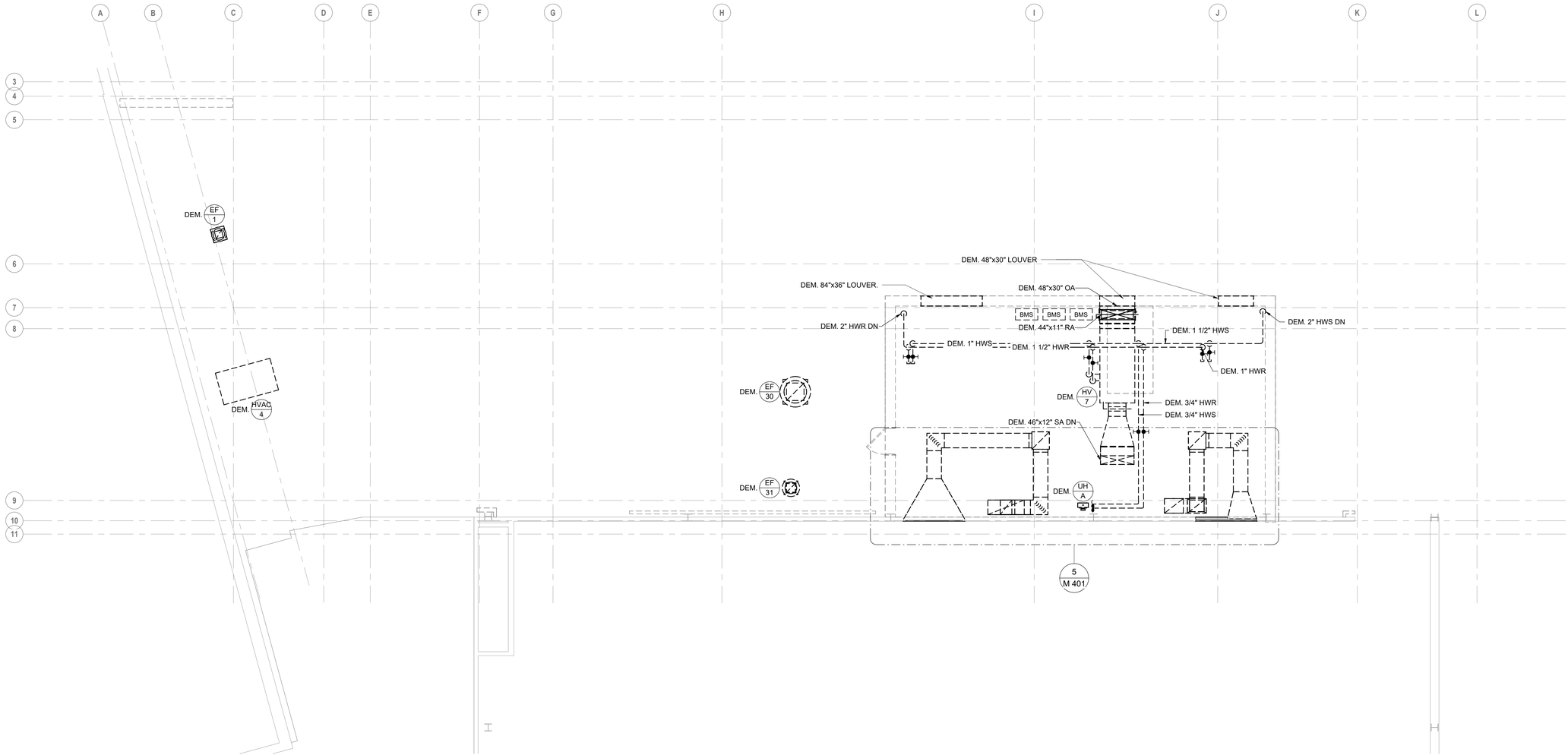


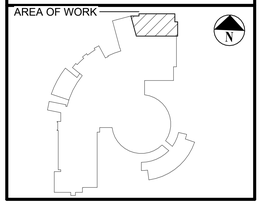
1 MECHANICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

NORTH

KEY PLAN

AREA OF WORK



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MECHANICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

DRAWING No.

M 102.00

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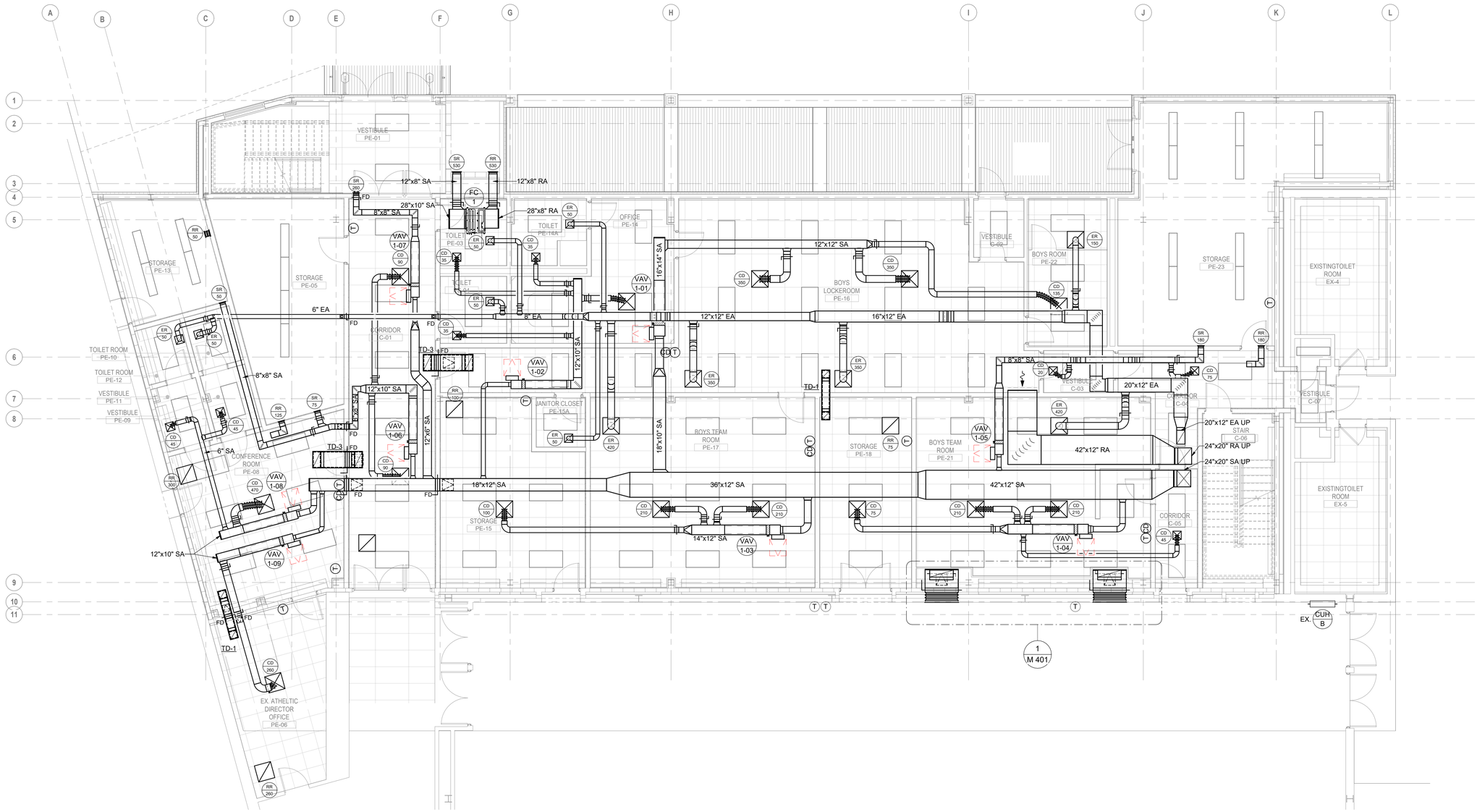


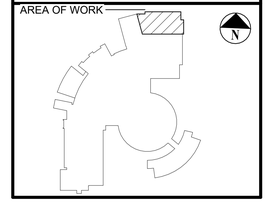
1 MECHANICAL PARTIAL FIRST FLOOR CONSTRUCTION PLAN

NORTH

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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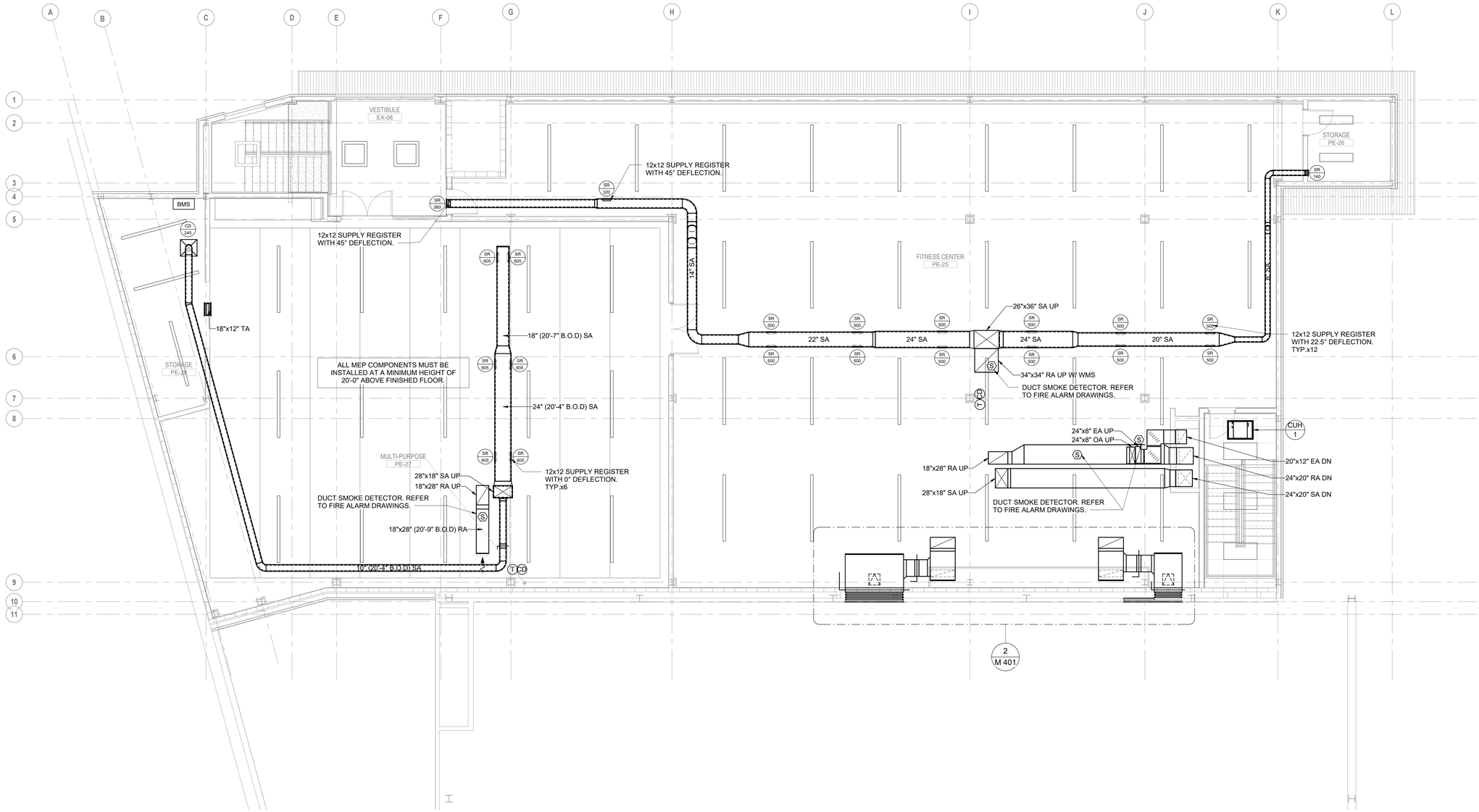


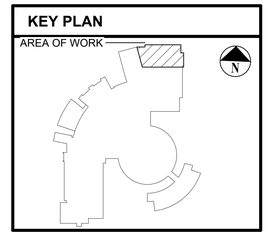
1 MECHANICAL PARTIAL SECOND FLOOR CONSTRUCTION PLAN

NORTH

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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CONTRACT H MECHANICAL WORK

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SHEET TITLE

MECHANICAL PARTIAL SECOND FLOOR CONSTRUCTION PLAN

DRAWING No.

M 202.00

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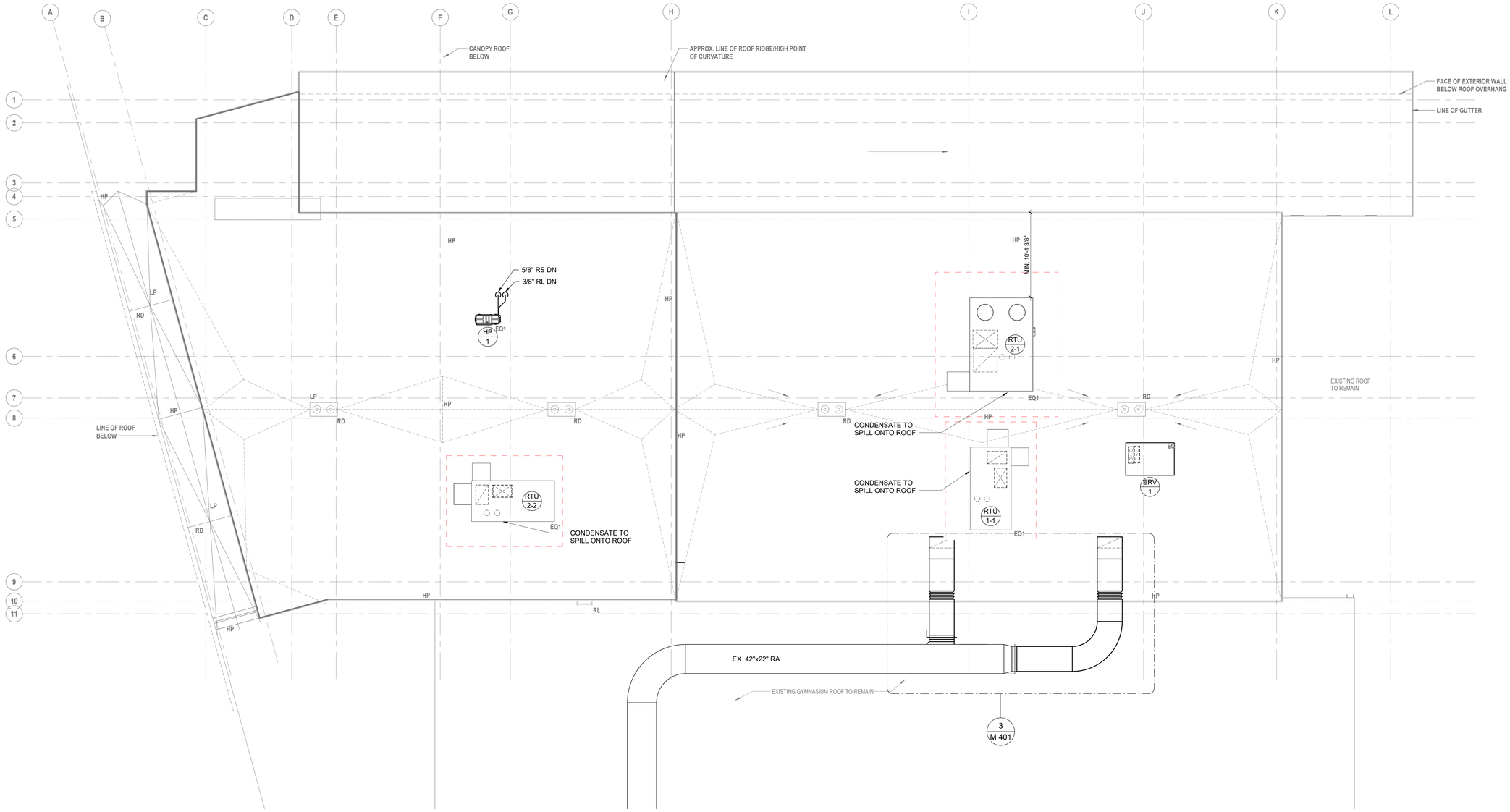


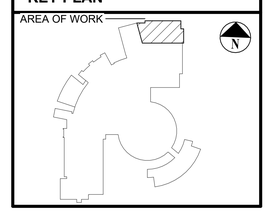
NORTH

1 MECHANICAL PARTIAL ROOF CONSTRUCTION PLAN

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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MECHANICAL PARTIAL ROOF CONSTRUCTION PLAN

DRAWING No.

M 203.00

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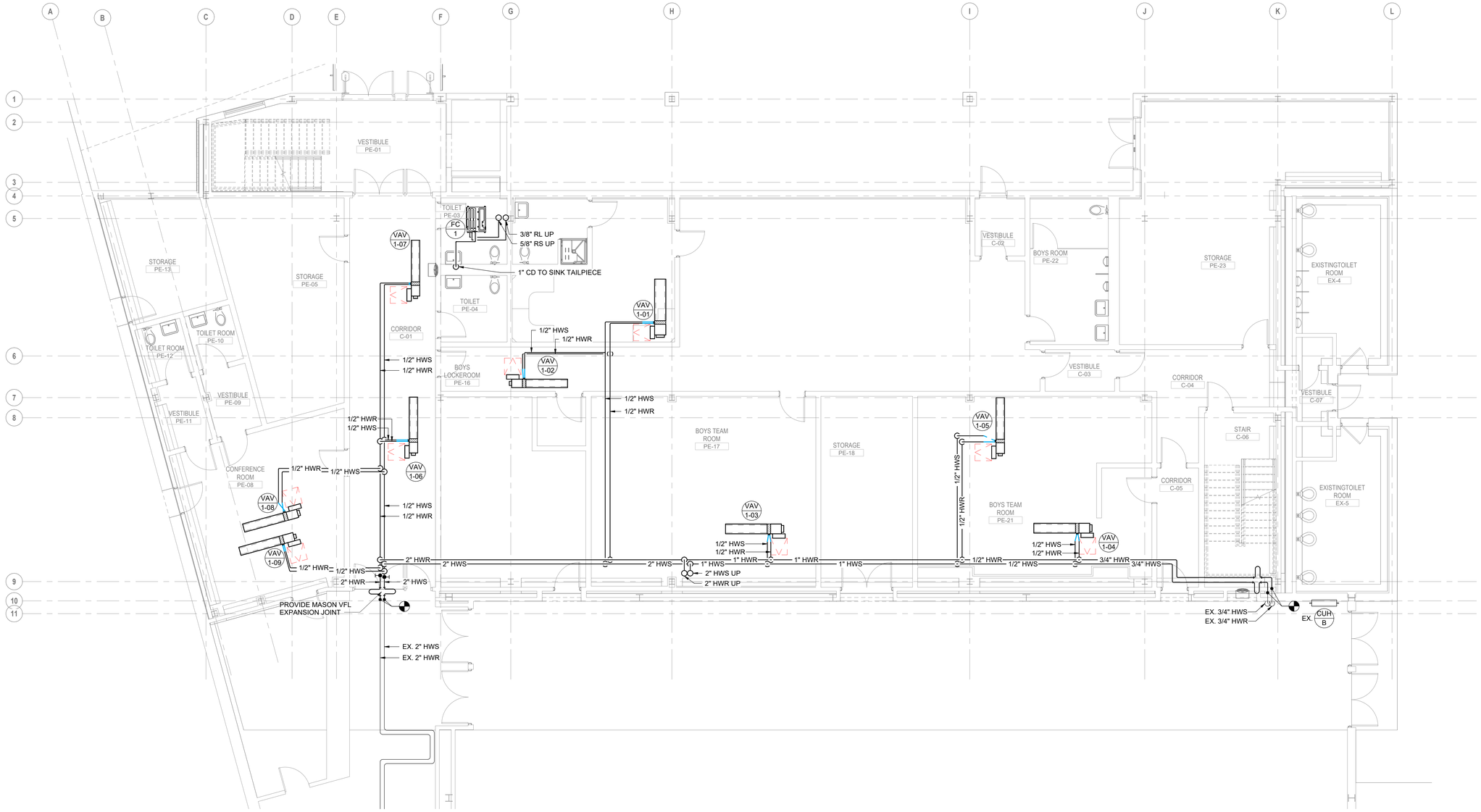


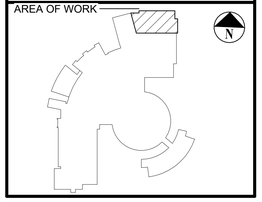
NORTH

1 MECHANICAL PARTIAL FIRST FLOOR PIPING PLAN

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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SHEET TITLE

MECHANICAL PARTIAL FIRST FLOOR PIPING PLAN

DRAWING No.

M 301.00

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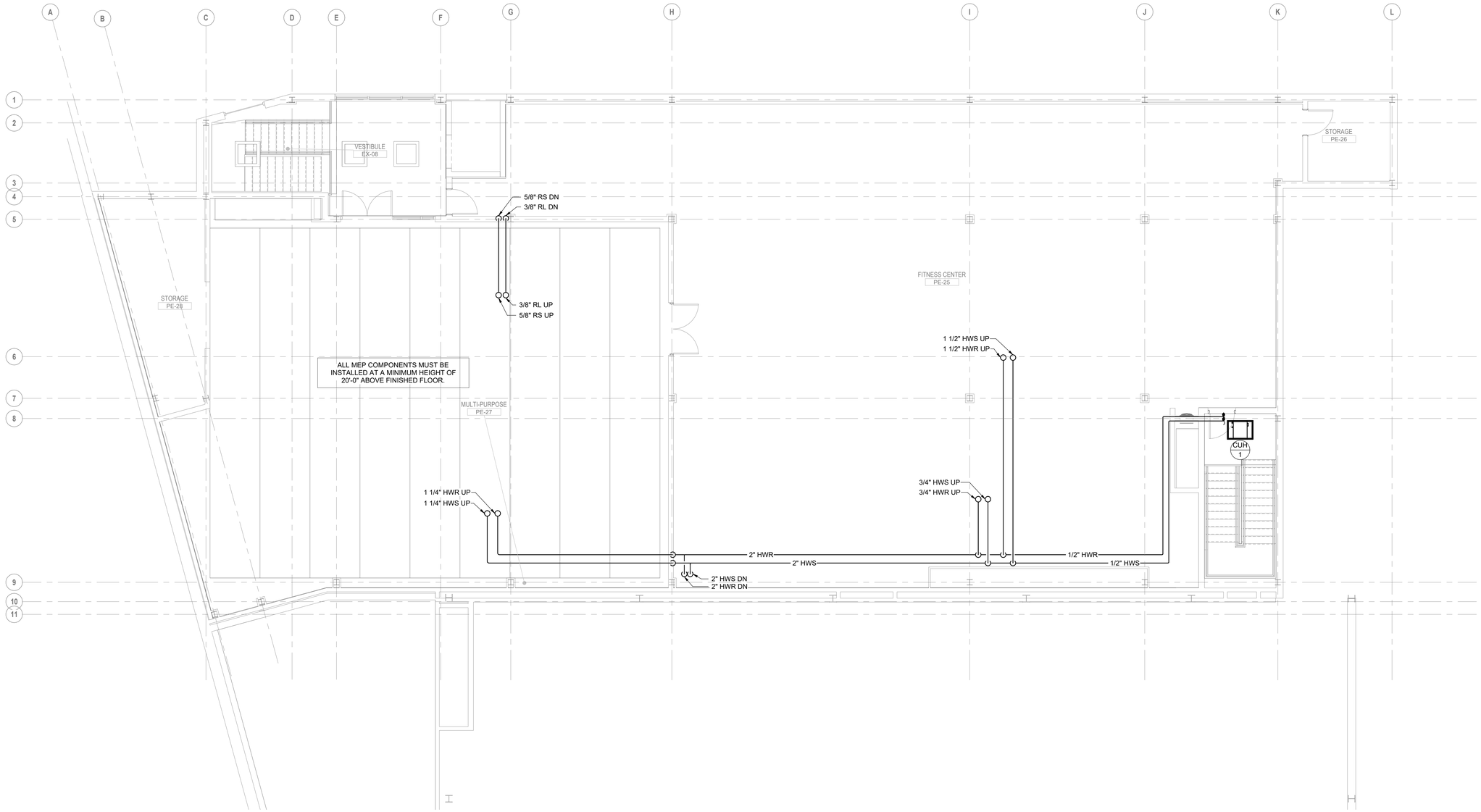


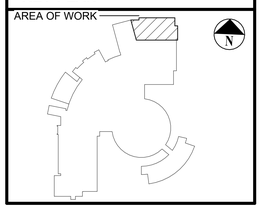
NORTH

1 MECHANICAL PARTIAL SECOND FLOOR PIPING PLAN

SCALE: 3/16" = 1'-0"

KEY PLAN

AREA OF WORK



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MECHANICAL PARTIAL SECOND FLOOR PIPING PLAN

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M 302.00

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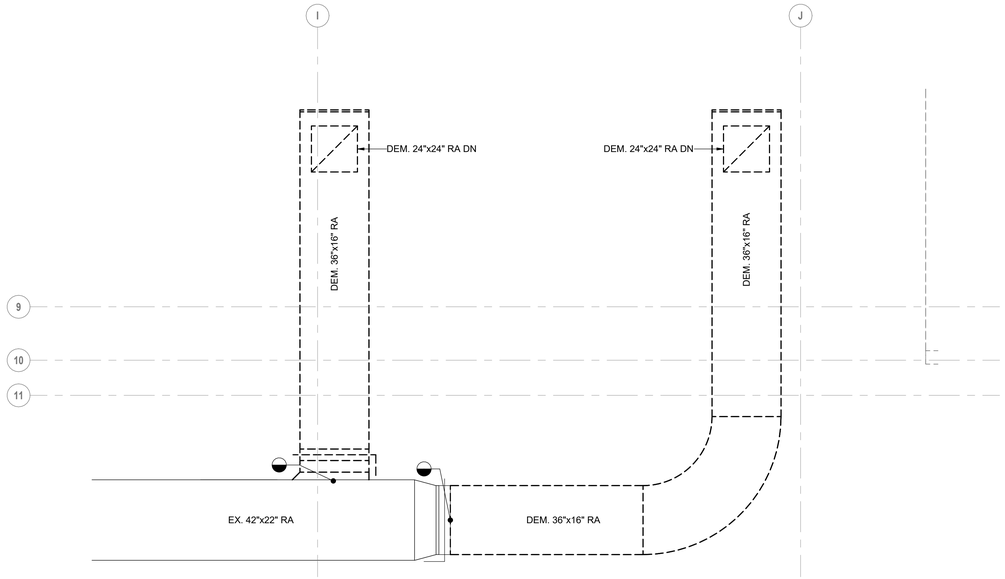
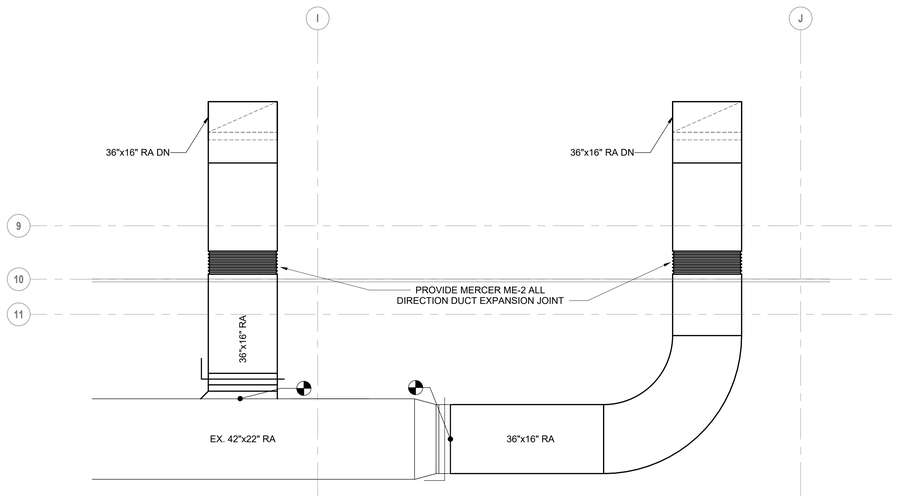


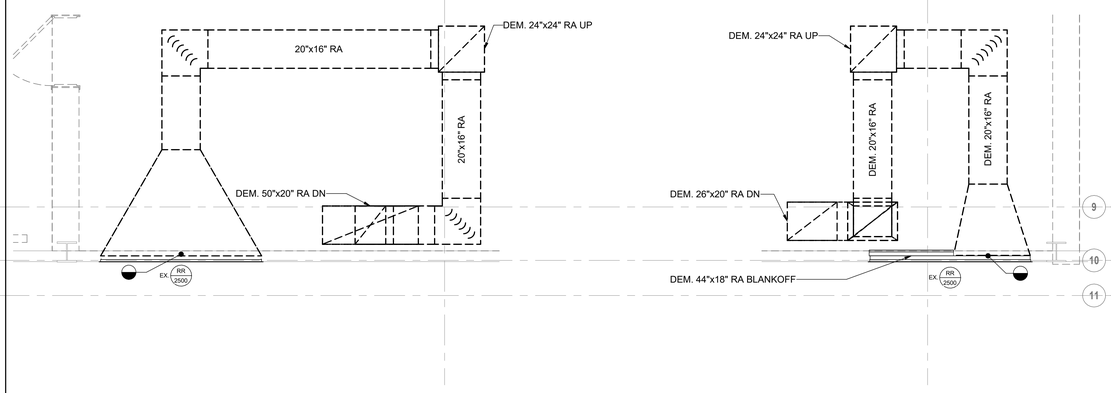
6 MECHANICAL ROOF DEMOLITION PLAN - MAIN GYM RTU DUCTWORK

SCALE: 3/8" = 1'-0"



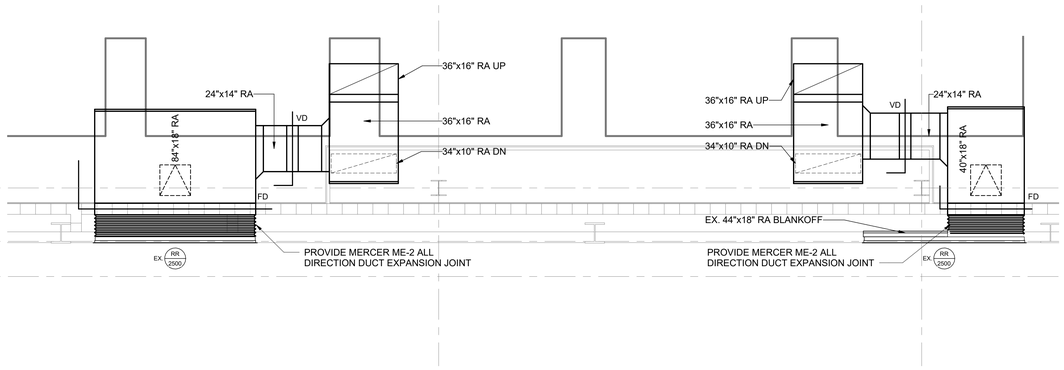
3 MECHANICAL ROOF CONSTRUCTION PLAN - MAIN GYM RTU DUCTWORK

SCALE: 3/8" = 1'-0"



5 MECHANICAL SECOND FLOOR DEMOLITION PLAN - MAIN GYM RTU DUCTWORK

SCALE: 3/8" = 1'-0"



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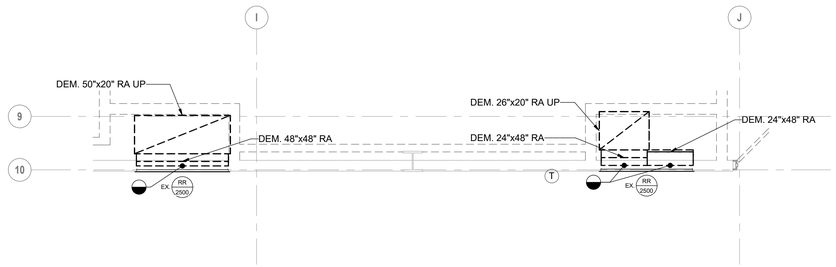
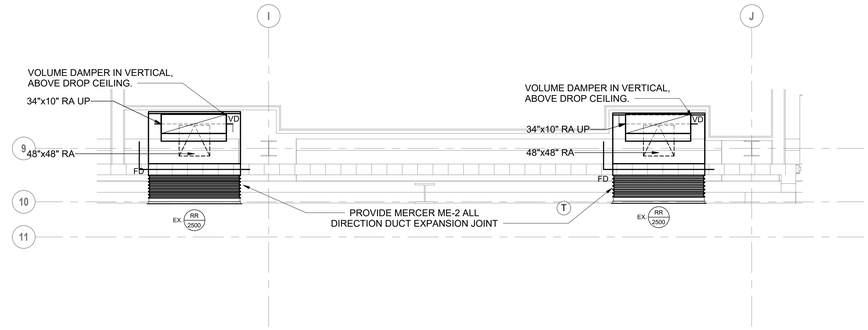
SCALE: 3/8" = 1'-0"



4 MECHANICAL FIRST FLOOR DEMOLITION PLAN - MAIN GYM RTU DUCTWORK

SCALE: 3/8" = 1'-0"



1 MECHANICAL FIRST FLOOR CONSTRUCTION PLAN - MAIN GYM RTU DUCTWORK

SCALE: 3/8" = 1'-0"

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MECHANICAL PARTIAL PLANS - MAIN GYM RTU DUCTWORK

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M 401.00

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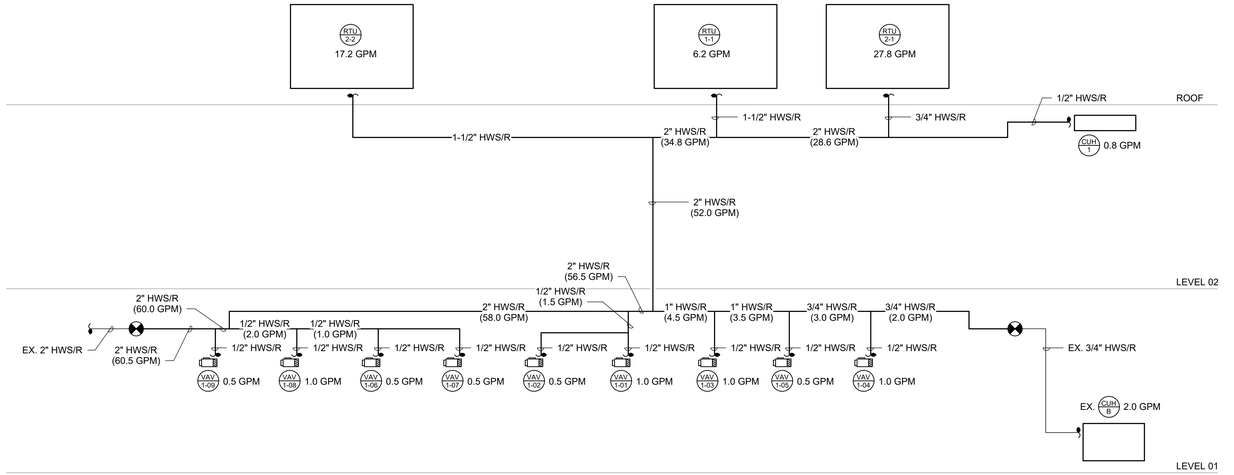

1 PARTIAL HEATING HOT WATER RISER DIAGRAM

SCALE: NONE

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MECHANICAL HOT WATER RISER DIAGRAM

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MINIMUM PIPE INSULATION THICKNESS (INCHES) (a,c)

NYS ENERGY CODE 2025 TABLE C403.11.3

FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE DIAMETER (in inches)				
	CONDUCTIVITY (in Btu-in/h-ft2-°F) (b)	MEAN RATING TEMPERATURE (°F)	< 1	1 to <1.5	2 < 4	4 to < 8	8 and LARGER
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

a. FOR PIPING SMALLER THAN 1-1/2 INCHES AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRE IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH.
b. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS FOLLOWS:
T = r{(1 + t/r)^K/k - 1]
WHERE:
T = MINIMUM INSULATION THICKNESS
r = ACTUAL OUTSIDE RADIUS OF PIPE
t = INSULATION THICKNESS LISTED IN THE TABLE FOR APPLICABLE FLUID TEMPERATURE AND PIPE SIZE
K = CONDUCTIVITY OF ALTERNATE MATRIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE
k = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED IN THE TABLE FOR THE APPLICABLE FLUID TEMPERATURE
c. FOR DIRECT BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 1-1/2 INCHS SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE b BUT NOT TO A THICKNESS LESS THAN 1 INCH.

BRANCH DUCT SCHEDULE

CFM RANGE	ROUND DUCT SIZE (DIA.)	RECTANGULAR DUCT SIZE (WxH)
0-100	6"	10x4
101-200	8"	12x6
201-350	10"	14x6, 10x8
351-500	12"	18x6, 12x8, 10x10
501-700	14"	14x8, 12x10, 12x12
701-950	16"	20x8, 16x10, 14x12
951-1100	18"	24x8, 18x10, 16x12, 14x14

NOTES:
1. THIS SCHEDULE APPLIES TO BRANCH DUCT TO INDIVIDUAL DIFFUSERS THAT ARE NOT SIZED ON PLANS.
2. APPLICABLE FOR LOW PRESSURE DUCTWORK ONLY (<2" WG).
3. ALL DUCT DIMENSIONS ARE INTERNAL AND SIZED FOR FREE AREA. INTERNALLY LINED DUCTWORK MUST BE SIZED TO ACCOUNT FOR LINING THICKNESS.
4. ALL SUPPLY DUCTWORK ABOVE CEILINGS SHALL BE EXTERNAL INSULATION IN ACCORDANCE WITH THE IECC.

AIR TERMINAL SCHEDULE

DESIGNATION	CD		SR		RR / ER	
TYPE	CEILING DIFFUSER		SUPPLY REGISTER		RETURN REGISTER	
MODEL	OMNI		300RL		3FS	
MAX NK VELOCITY (FPM)	550		550		500	
MAX NC	25		25		25	
CONSTRUCTION	STEEL		ALUMINUM		ALUMINUM	
BORDER/FRAME	LAY-IN		SURFACE MOUNTED		SURFACE MOUNTED	
DEFLECTION	4 WAY		DOUBLE		45° FIXED	
SPACING	-		3/4"		3/4"	
FACE SIZE	24x24 / 12x12		-		-	
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE
	0-100	6"	0-200	8x8	0-150	8x8
	101-200	8"	201-300	10x10	151-250	10x10
	201-350	10"	301-500	12x12	251-350	12x12
	351-450	12"	501-850	16x16	351-725	18x18
	451-600	14"	851-1100	18x18	726-950	22x22
	601-700	16"	1101-1700	22x22	951-1100	24x24
			1701-2000	24x24	1101-1400	24x30

NOTES:
1. AIR TERMINALS BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN EQUIVALENT CORE AREA.
3. COORDINATE COLOR SELECTION WITH ARCH PLANS.
4. AIR TERMINALS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
5. ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24x24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
6. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.
7. ALL REGISTERS SHALL BE EQUIPPED WITH OPPOSED BLADE VOLUME DAMPERS.

PIPE MATERIAL TABLE

SERVICE	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIAL	TYPE / WEIGHT	STANDARD
HOT WATER / GLYCOL	≤ 2	COPPER	HARD TEMPER TYPE L	ASTM B88	COPPER	WROUGHT COPPER BRAZED JOINT	ANSI 16.18
	> 2	BLACK STEEL	ERW / SCH. 40	ASTM A53 GRADE B	STEEL	WELDED / SCH. 40	ANSI 16.9
CONDENSATE DRAIN	ALL	COPPER	HARD TEMPER TYPE L	ASTM B88	COPPER	WROUGHT COPPER SOLDER JOINT	ANSI 16.18
REFRIGERANT	ALL	COPPER	HARD TEMPER TYPE K (ACR)	ASTM 280	COPPER	BRAZED JOINT	ANSI B16.22

VRF OUTDOOR UNIT SCHEDULE

DESIGNATION	HP-1
LOCATION	ROOF
AREA SERVED	HOISTWAY
MANUFACTURER	LG
MODEL	KUSXB181A
NOM. CAP. (TONS)	1.5
WEIGHT OF UNIT(LBS)	136
COOLING SEER / EER	17.5 / 12.4
HSPF	9.2
DESIGN DATA:	
SUMMER OA TEMP (°F) DB	95
WINTER OA TEMP (°F) DB	47
PERFORMANCE:	
COOLING CAPACITY (BTU/HR)	18
HEATING CAPACITY (BTU/HR)	20
REFRIGERANT TYPE	R32
REFRIGERANT CHARGE (LBS)	4.2
ADD'L CHARGE (LBS)	0
ELECTRICAL DATA:	
VOLTAGE / PH / FREQ.	208 / 1 / 60
FLA / MCA / MOCP (A)	14.8 / 16 / 25

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS:
- MOUNT UNIT ON VIBRATION ISOLATORS, TYPE & QUANTITY AS PER MANUFACTURER'S RECOMMENDATIONS.
- WEATHER RESISTANT REMOVABLE HOUSING.
- SEALED RL LINE FILTER DRYER & SIGHT GLASS
- CRANK CASE HEATER
- TWO VALVE ADJUSTABLE PRESSURE CONTROL
- SUCTION ACCUMULATOR
- OIL SEPARATOR
- RECEIVER INLET VALVE
- LIQUID LINE SOLENOID VALVE

VRF INDOOR UNIT SCHEDULE

DESIGNATION	FC-1
LOCATION	FIRST FL
AREA SERVED	HOISTWAY
MANUFACTURER	LG
MODEL	KNUJB181A
NOM. CAP. (TONS)	1.5
WEIGHT OF UNIT(LBS)	62
AIRFLOW:	
SUPPLY AIRFLOW (CFM)	550
MIN. OUTSIDE AIRFLOW (CFM)	-
COOLING PERFORMANCE:	
TOTAL CAPACITY (MBH)	18
SENSIBLE CAPACITY (MBH)	13.9
EAT (°F) DB/WB	80 / 67
LAT (°F) DB/WB	55 / 54
HEATING PERFORMANCE:	
CAPACITY (MBH)	20
EAT (°F) DB	70
LAT (°F) DB	85
FILTERS:	
MERV RATING	8
ELECTRICAL DATA:	
VOLTAGE / PH / FREQ.	POWERED BY OUTDOOR UNIT
FLA / MCA / MOCP (A)	

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS ON THE IDU:
- UNITS SHALL BE PROVIDED WITH INTEGRAL CONDENSATE PUMP.
- PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
- PROVIDE BRANCH PIPING KIT.
- UNITS SHALL BE PLENUM RATED.
- PROVIDE STAINLESS STEEL SECONDARY DRAIN PAN WITH AUDIBLE LEAK DETECTOR (OR CONNECTION TO BMS)
- PROVIDE 1" ACOUSTIC LINED MIXING BOX.
- PROVIDE CONNECTION TO BMS.
2. MOTOR STARTER & DISCONNECT SWITCH FOR EACH FAN COIL SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR

ENERGY RECOVERY VENTILATOR SCHEDULE

DESIGNATION	ERV-1
LOCATION	ROOF
AREA SERVED	GROUND FL
MANUFACTURER	SYSTEMAIR
MODEL	ERV-3200-RR
WEIGHT OF UNIT(LBS)	1,360
WEIGHT OF CURB (LBS)	-
INTERLOCK	RTU-1-1
SUPPLY AIRFLOW:	
CFM	2,000
ESP (IN. WG)	0.25
EXHAUST AIRFLOW:	
CFM	2,000
ESP (IN. WG)	0.75
SUMMER (COOLING)	
FRESH AIR INTAKE - DB / WB (°F)	87.9 / 72.5
OUTSIDE AIR - DB / WB (°F)	79.3 / 67.4
RETURN AIR - DB / WB (°F)	77.0 / 65.5
WINTER (HEATING)	
FRESH AIR INTAKE - DB / WB (°F)	8.7 / 7.3
OUTSIDE AIR - DB / WB (°F)	59.5 / 44.1
RETURN AIR - DB / WB (°F)	72.0 / 51.0
OUTSIDE AIR FILTER:	
TYPE	PLEATED
DEPTH (IN.)	4
MERV	13
RETURN AIR FILTER:	
TYPE	PLEATED
DEPTH (IN.)	2
MERV	8
ELECTRICAL DATA	
VOLTAGE / PH / FREQ.	208 / 3 / 60
MCA / MOCP (A)	19.6 / 25

CABINET UNIT HEATER SCHEDULE

DESIGNATION	CUH-1
LOCATION	2ND FLOOR
SERVICE	STAIR
MANUFACTURER	STERLING
MODEL	RC-02
OPERATING WEIGHT (LBS)	102
DIMENSIONS (LxWxH)	35x18"x9.5"
FILTERS:	
TYPE	WASHABLE
QUANTITY / SIZE	1 / 15/32" x 8-11/16" x 19-3/4"
HOT WATER COIL:	
FACE AREA (SF)	.97
NO. OF ROWS / FINS PER FOOT	1 / 12
EWT / LWT (°F)	180 / 160
EAT / LAT (°F)	70 / 90
CAPACITY (MBH)	12.9
FLOW (GPM)	0.84
WATER PD (FT H2O)	0.06
SUPPLY FAN:	
CFM	185
OA CFM	-
HORSEPOWER	1/15
ELECTRICAL DATA:	
VOLTAGE / PH / FREQ.	120 / 1 / 60
FLA / MCA / MOCP (A)	0.45 / 0.56 / 15

NOTES:
1. PROVIDE THE FOLLOWING FEATURES & OPTIONS FOR EACH UNIT:
- UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
- HEATING COILS SHALL BE SIZED FOR 30% PROPYLENE GLYCOL.
- FREEZE STAT ARRANGED TO OVERRIDE THE COIL CONTROL VALVE AND SHUT DOWN UNIT AS PER THE SEQUENCE OF OPERATIONS.
- COORDINATE RIGHT-HAND / LEFT-HAND COIL CONNECTIONS IN THE FIELD.
- KEY LOCK ACCESS DOORS.
- FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL, WITH PIPING PACKAGE AS PER DETAIL 3 ON DRAWING M 702. 5 PSI MAX AT CONTROL VALVE.
- RETURN AIR THERMOSTAT IN UNIT.
- FACTORY FURNISHED LOCAL DISCONNECT SWITCH.
- COIL AIR VENT.
- (2) SET OF SPARE FILTERS FOR EACH UNIT.
- FINISH SHALL BE CUSTOM ENAMEL - SUBMIT COLOR CHART FOR APPROVAL.

PACKAGED ROOFTOP AC UNIT SCHEDULE

DESIGNATION	RTU-1-1	RTU-2-1	RTU-2-2
LOCATION	ROOF	ROOF	ROOF
AREA SERVED	FIRST FL	FITNESS CENTER	MULTIPURPOSE
MANUFACTURER	TEMPMASTER	TEMPMASTER	TEMPMASTER
MODEL	KJ150C00R4	LV20C0BBQ4	KJ150C00R4
NOM. CAP. (TONS)	12.5	20	12.5
WEIGHT OF UNIT(LBS)	1,280	1,930	1,280
WEIGHT OF CURB (LBS)	500	500	500
SUPPLY DUCT CONNECTION	24x21	62x26	24x21
RETURN DUCT CONNECTION	28x18	68x20	28x18
EER	12.1	11	12.1
IEER	15.4	14.4	15.4
DESIGN DATA:			
SUPPLY AIR (CFM)	4000	6460	4000
OUTDOOR AIR (CFM)	1710	1415	880
RETURN AIR (CFM)	2290	6460	3120
SPILL AIR (CFM)	-	1415	880
SUMMER OA TEMP (°F) DB/WB	95 / 78	95 / 78	95 / 78
SUMMER RA TEMP (°F) DB/%RH	72 / 50	72 / 50	72 / 50
WINTER OA TEMP (°F) DB/WB	8.7 / 7.0	8.7 / 7.0	8.7 / 7.0
WINTER RA TEMP (°F) DB/%RH	70 / 50	70 / 50	70 / 50
CONDENSER:			
COMPRESSOR NO. / TYPE	2 / SCROLL	2 / SCROLL	2 / SCROLL
REFRIGERANT TYPE	R454B	R454B	R454B
REFRIGERANT CHARGE (LBS)	19	21	19
FILTERS:			
MAIN FILTER	MERV13	MERV13	MERV13
QUANTITY / SIZE	4 / 24x20	6 / 20x25	4 / 24x20
EVAPORATOR COIL:			
E.A.T. (°F) DB/WB	81.3 / 66.7	78.2 / 69.7	78.2 / 69.7
L.A.T. (°F) DB/WB	53.6 / 53.4	57.3 / 57.2	57.4 / 57.2
TOTAL / SENS. CAPACITY (MBH)	153.6 / 106.9	264.7 / 157.2	164.3 / 99.7
HOT WATER COIL:			
FACE DIMENSIONS (IN)	33x18	60x28	33x18
NO. OF ROW / FPI	1 / 13	1 / 11	1 / 14
E.W.T / L.W.T. (°F)	180 / 160	180 / 160	180 / 160
E.A.T / L.A.T. (°F)	43.8 / 55.0	56.6 / 85.0	56.5 / 85.0
AIR PRESSURE DROP (IN WG.)	0.15	0.05	0.16
CAPACITY (MBH)	48.4	265.9	123.1
FLOW (GPM)	6.2	27.8	17.2
WATER PRESSURE DROP (FT)	3.8	7.6	4.4
SUPPLY FAN:			
AIRFLOW (CFM)	4000	6460	4000
ESP (IN WG)	1.2	0.8	0.8
BHP / HP	2.9 / 5	3.0 / 5	3.1
RPM	1167	900	1242
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:			
VOLTAGE / PH / FREQ.	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60
FLA / MCA / MOCP (A)	33.3 / 41.6 / 50	47.6 / 59.5 / 70	33.3 / 41.6 / 50

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
· HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
· UNITS SHALL BE HIGH EFFICIENCY.
· 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
· OUTSIDE AIR INTAKE DAMPER FOR EACH VARIABLE AIR VOLUME UNIT SHALL BE ARRANGED MODULATE TO MAINTAIN CONSTANT OAI CFM, INDEPENDENT OF VARIABLE SA CFM. PROVIDE AN OUTSIDE AIR INTAKE AIRFLOW MEASURING STATION.
· FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
· UNIT SHALL BE MOUNTED ON 20" HIGH VIBRATION ISOLATION ROOF CURB. (HEIGHT INCLUDES BASE CURB AND VIBRATION ISOLATION RAILS.) PROVIDE ENGINEERED ROOF CURB BY MASON INDUSTRIES THAT INCLUDES UNIT-HUNG EQUIPMENT SCREEN (BY OTHERS). REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR INFORMATION REGARDING THE EQUIPMENT SCREEN.
· CUSTOM FACTORY INSTALLED HOT WATER COIL IN UNIT. COORDINATE LEFT/RIGHT COIL CONNECTION IN FIELD.
· FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH HOT WATER COIL, WITH PIPING PACKAGE AS PER DETAIL ON DRAWING M 702. 5 PSI MAX AT CONTROL VALVE.
· HOT WATER PIPING TO UNIT ON ROOF SHALL BE LOCATED IN A FACTORY FABRICATED AND INSULATED PIPE ENCLOSURE. PROVIDE BOTTOM COIL CONNECT WHEREVER POSSIBLE.
· HEATING COILS SHALL BE SIZED FOR 30% PROPYLENE GLYCOL.
· FURNISH A FREEZE STAT ARRANGED TO OVERRIDE THE HOT WATER CONTROL VALVE & SHUT DOWN UNIT, AS PER THE SEQUENCE OF OPERATIONS.
· POWER EXHAUST FAN, ARRANGED TO RUN IN ECONOMIZER MODE, WITH BAROMETRIC RELIEF WHEN ECONOMIZER IS NOT ENABLED.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
· UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
· ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
· SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

DESIGNATION	AREA SERVED	LEVEL	ASSOCIATED AHU	INLET SIZE (IN.)	AIRFLOW (CFM)		MIN. INLET STATIC (IN. WC)	CONTROL TYPE	HOT WATER COIL										ELECTRICAL DATA V / PH / HZ	MANUFACTURER	MODEL	NOTES
					MINIMUM	DESIGN			CAPACITY (MBH)	AIRSIDE DATA				WATERSIDE DATA								
										AIRFLOW (CFM)	EDBT (°F)	LDBT (°F)	AIR PRESSURE DROP (IN. WC)	FLOW (GPM)	EWT (°F)	LWT (°F)	PRESSURE DROP (FT H2O)	MIN. NO. OF ROWS	MAX FINS PER INCH				
VAV-1-01	BOYS LOCKER ROOM	Level 1	RTU-1-1	12	255	835	0.1	DDC	8262	255	55	85	0.3	1.0	180	160	0.6	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-02	OFFICE	Level 1	RTU-1-1	6	85	275	0.1	DDC	2754	85	55	85	0.1	0.5	180	160	0.1	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-03	BOYS TEAM ROOM	Level 1	RTU-1-1	10	160	520	0.1	DDC	5184	160	55	85	0.2	1.0	180	160	0.0	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-04	GIRLS TEAM ROOM	Level 1	RTU-1-1	10	165	540	0.1	DDC	5346	165	55	85	0.3	1.0	180	160	0.0	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-05	STORAGE	Level 1	RTU-1-1	6	85	275	0.1	DDC	2754	85	55	85	0.2	0.5	180	160	0.1	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-06	CORRIDOR	Level 1	RTU-1-1	6	95	305	0.1	DDC	3078	95	55	85	0.2	0.5	180	160	0.1	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-07	VESTIBULE	Level 1	RTU-1-1	6	80	260	0.1	DDC	2592	80	55	85	0.1	0.5	180	160	0.1	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-08	CONFERENCE ROOM	Level 1	RTU-1-1	8	170	560	0.1	DDC	5508	170	55	85	0.3	1.0	180	160	0.2	2	10	120 / 1 / 60	TITUS	DESV	
VAV-1-09	ATHLETIC DIRECTOR	Level 1	RTU-1-1	6	80	260	0.1	DDC	2592	80	55	85	0.3	0.5	180	160	0.1	2	10	120 / 1 / 60	TITUS	DESV	

NOTES

1 PROVIDE WITH 24V STEPDOWN TRANSFORMER AND DISCONNECT SWITCH. BOX SHALL BE U.L. LISTED AND LABELED.
2 PROVIDE MINIMUM 5' SOUND ATTENUATOR.
3 PROVIDE WITH THERMOSTAT AND CONNECT UNIT TO BMS.
4 PROVIDE COMBINATION THERMOSTAT-CO2 SENSOR AND CONNECT UNIT TO BMS.
5 PROVIDE VAV BOX WITH 1" ECOSHIELD LINER.
6 PROVIDE VENT & DRAIN ON HOT WATER COIL.
7 PROVIDE WITH 1/2" NEOPRENE HANGER.
8 PROVIDE WITH MANUFACTURER'S 12 BIT ANALOG-TO-DIGITAL CONVERTER FOR PRESSURE DIFFERENTIAL CONTROLLER.
9 AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL VAV BOX CONTROLS.
10 MAXIMUM RADIATED NC<30, MAXIMUM DISCHARGE NC<28.

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MARK	DATE	DESCRIPTION
	06-23-2026	ISSUED FOR BID

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JC	JC	RJ	JT

PROJECT No: NH2M0009.00 | DATE: 06/23/2026 | SCALE: AS SHOWN

CLIENT
Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
CONTRACT H MECHANICAL WORK

STATUS
FINAL BID DOCUMENTS

SHEET TITLE
MECHANICAL SCHEDULES

DRAWING No.
M 601.00

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MECHANICAL VENTILATION SCHEDULE (SINGLE ZONE SYSTEMS)

LEVEL	NUMBER	NAME	AREA (SF)	SPACE TYPE	OUTDOOR AIRFLOW RATE CALCULATION PER NYS MC SECTION 403.3.1								
					OCCUPANT DENSITY (PEOPLE / 1000 SF)	ZONE POPULATION, Pz	NUMBER OF PEOPLE (FURNITURE BASED)	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE, Rp (CFM / PERSON)	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE, Ra (CFM / SF)	BREATHING ZONE OUTDOOR AIRFLOW, Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS, Ez	ZONE OUTDOOR AIRFLOW, Voz (CFM)	ACTUAL OUTDOOR AIR (CFM)
RTU-2-1													
Level 2	PE-25	FITNESS CENTER	4227 SF	SPORTS AND AMUSEMENT | HEALTH CLUB / WEIGHT ROOM	10	43	0	20	0.06	1114	0.8	1392	1400
Level 2	PE-26	STORAGE	95 SF	OFFICES | OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	2	1	0	5	0.06	11	0.8	13	15
													1415
RTU-2-2													
Level 2	EX-08	VESTIBULE	338 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0	0.06	20	0.8	25	25
Level 2	PE-27	MULTI-PURPOSE	2544 SF	SPORTS AND AMUSEMENT | HEALTH CLUB / WEIGHT ROOM	10	26	0	20	0.06	673	0.8	841	815
Level 2	PE-28	STORAGE	234 SF	OFFICES | OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	2	1	0	5	0.06	19	0.8	24	40
													880

MECHANICAL VENTILATION SCHEDULE (MULTI ZONE SYSTEMS)

LEVEL	NUMBER	NAME	AREA (SF)	SPACE TYPE	ZONE OUTDOOR AIRFLOW RATE CALCULATION PER NYS MC SECTION 403.3.1								
					OCCUPANT DENSITY (PEOPLE / 1000 SF)	ZONE POPULATION, Pz	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE, Rp (CFM / PERSON)	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE, Ra (CFM / SF)	BREATHING ZONE OUTDOOR AIRFLOW, Voz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS, Ez	UNCORRECTED OUTDOOR AIRFLOW, Vou (CFM)	PRIMARY AIRFLOW, Vpz (CFM)	PRIMARY OUTDOOR AIR FRACTION, Zp
RTU-1-1													
Level 1	C-01	CORRIDOR	483 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	29	0.8	36	180	0.20
Level 1	C-02	VESTIBULE	40 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	2	0.8	3	0	0.00
Level 1	C-03	VESTIBULE	42 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	3	0.8	3	20	0.16
Level 1	C-04	CORRIDOR	163 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	10	0.8	12	75	0.16
Level 1	C-05	CORRIDOR	74 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	4	0.8	6	45	0.12
Level 1	PE-01	VESTIBULE	298 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	18	0.8	22	260	0.09
Level 1	PE-03	TOILET	61 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0.00	0	0.8	0	35	0.00
Level 1	PE-04	TOILET	64 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0.00	0	0.8	0	35	0.00
Level 1	PE-05	STORAGE	339 SF	OFFICES | OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	2	1	5	0.06	25	0.8	32	75	0.42
Level 1	PE-06	EX. ATHELTIC DIRECTOR OFFICE	252 SF	OFFICES | OFFICE SPACES	5	2	5	0.06	25	0.8	31	260	0.12
Level 1	PE-08	CONFERENCE ROOM	373 SF	OFFICES | CONFERENCE ROOMS	50	19	5	0.06	117	0.8	147	470	0.31
Level 1	PE-09	VESTIBULE	42 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	3	0.8	3	45	0.07
Level 1	PE-10	TOILET ROOM	37 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0.00	0	0.8	0	0	0.00
Level 1	PE-11	VESTIBULE	40 SF	PUBLIC SPACES | CORRIDORS	0	0	0	0.06	2	0.8	3	45	0.07
Level 1	PE-12	TOILET ROOM	35 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0.00	0	0.8	0	0	0.00
Level 1	PE-13	STORAGE	167 SF	OFFICES | OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	2	1	5	0.06	15	0.8	19	50	0.38
Level 1	PE-14	OFFICE	242 SF	OFFICES | OFFICE SPACES	5	2	5	0.06	25	0.8	31	170	0.18
Level 1	PE-14A	TOILET	66 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0.00	0	0.8	0	35	0.00
Level 1	PE-15	STORAGE	356 SF	OFFICES | OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	2	1	5	0.06	26	0.8	33	100	0.33
Level 1	PE-15A	JANITOR CLOSET	34 SF	JANITOR'S CLOSET	0	0	0	0.00	0	0.8	0	0	0.00
Level 1	PE-16	BOYS LOCKEROOM	1071 SF	EDUCATION | SPORTS LOCKER ROOMS	20	22	0	0.00	0	0.8	0	700	0.00
Level 1	PE-17	BOYS TEAM ROOM	613 SF	EDUCATION | SPORTS LOCKER ROOMS	20	13	0	0.00	0	0.8	0	420	0.00
Level 1	PE-18	STORAGE	252 SF	OFFICES | OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	2	1	5	0.06	20	0.8	25	75	0.34
Level 1	PE-21	BOYS TEAM ROOM	582 SF	EDUCATION | SPORTS LOCKER ROOMS	20	12	0	0.00	0	0.8	0	420	0.00
Level 1	PE-22	BOYS ROOM	169 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)	0	0	0	0.00	0	0.8	0	135	0.00
Level 1	PE-23	STORAGE	653 SF	OFFICES | OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	2	2	5	0.06	61	0.8	61	180	0.34
			6548 SF			76			374		467	3830	

SYSTEM AREA	As	(SF)	6,548
SYSTEM POPULATION	Ps	(PEOPLE)	76
SUM OF ZONE POPULATION	SUM OF Pz	(PEOPLE)	76
OCCUPANCY DIVERSITY	D		1
UNCORRECTED OUTDOOR AIR INTAKE	Vou	(CFM)	467
SYSTEM PRIMARY AIRFLOW (AT CONDITION ANALYZED)	Vps	(CFM)	3,830
MAXIMUM PRIMARY OUTDOOR AIR FRACTION	Zp		0.42
VENTILATION EFFICIENCY	Ev		0.7
OUTDOOR AIR INTAKE FLOW REQUIRED	Vot	(CFM)	670
OUTDOOR AIR INTAKE FLOW (MEASURED OR DESIGNED)		(CFM)	1,990
ENERGY RECOVERY REQUIREMENT			
PERCENT OUTDOOR AIR AT FULL DESIGN AIRFLOW RATE		%	51.9
ENERGY RECOVERY REQUIRED PER TABLE C403.7.4.2(1)			YES

MECHANICAL VENTILATION SCHEDULE - EXHAUST

LEVEL	NUMBER	NAME	AREA (SF)	SPACE TYPE	EXHAUST AIRFLOW RATE CALCULATION PER NYS MC SECTION 403.3.1					
					AREA BASIS		FIXTURE BASIS			ACTUAL EXHAUST AIR
					EXHAUST AIRFLOW RATE (CFM / SF)	EXHAUST AIRFLOW (CFM)	EXHAUST AIRFLOW RATE (CFM / FIXTURE)	NUMBER OF FIXTURES	EXHAUST AIRFLOW (CFM)	
RTU-1-1										
Level 1	PE-03	TOILET	61 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)			50	1	50	50
Level 1	PE-04	TOILET	64 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)			50	1	50	50
Level 1	PE-10	TOILET ROOM	37 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)			50	1	50	50
Level 1	PE-12	TOILET ROOM	35 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)			50	1	50	50
Level 1	PE-14A	TOILET	66 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)			50	1	50	50
Level 1	PE-15A	JANITOR CLOSET	34 SF	JANITOR'S CLOSET	1.00	34				50
Level 1	PE-16	BOYS LOCKEROOM	1071 SF	EDUCATION | SPORTS LOCKER ROOMS	0.50	536				700
Level 1	PE-17	BOYS TEAM ROOM	613 SF	EDUCATION | SPORTS LOCKER ROOMS	0.50	306				420
Level 1	PE-21	BOYS TEAM ROOM	582 SF	EDUCATION | SPORTS LOCKER ROOMS	0.50	291				420
Level 1	PE-22	BOYS ROOM	169 SF	PUBLIC SPACES | TOILET ROOMS - PUBLIC (CONTINUOUS)			50	3	150	150
			2732 SF							1990

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MARK	DATE	DESCRIPTION
	06-23-2026	ISSUED FOR BID

STATE OF NEW YORK · JOHN TOMEO · 071678 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JC	JC	RU	JT

PROJECT No:	DATE:	SCALE:
NH2M0009.00	06/23/2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY · ACCESS · HARRISON CENTRAL SCHOOL DISTRICT · ADAPTABILITY · RIGOR

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT H MECHANICAL WORK

STATUS

FINAL BID DOCUMENTS

SHEET TITLE

MECHANICAL SCHEDULES

DRAWING No.

M 602.00

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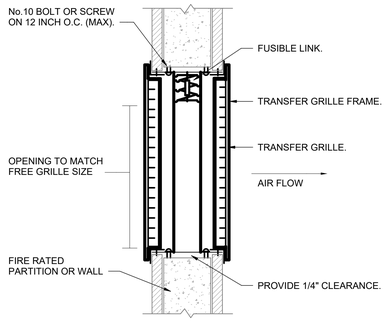
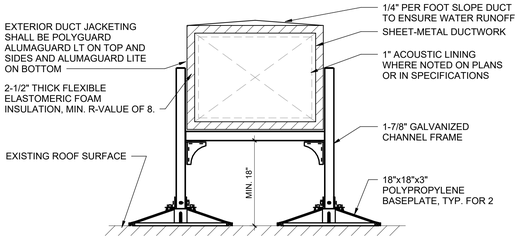


NOTES:
1. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A UL LABELS.
2. MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
3. FIRE DAMPERS SHALL CONFORM TO N.Y.C. MANUFACTURING B.S. AND A. NUMBER 100-65 SM.

13 TRANSFER AIR FIRE DAMPER DETAIL

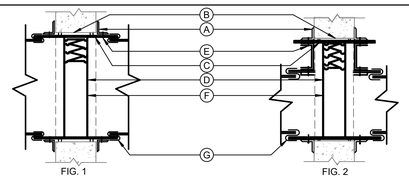
SCALE: 12" = 1'-0"



NOTES:
1. ROOF DUCT SUPPORT SHALL BE BASED ON PHP SYSTEMS/DESIGN MODEL NUMBER PHP-D.
2. ALL BRACKETS, HANGERS, FASTENERS AND SUPPORTS LOCATED OUTDOORS SHALL BE GALVANIZED OR NICKEL PLATED
3. USE ONLY THOSE MATERIALS COMPATIBLE WITH THE EXISTING ROOFING SYSTEM.
4. SEAL ALL EXTERIOR DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE-SEAL CLASS A

10 ROOF DUCT SUPPORT DETAIL

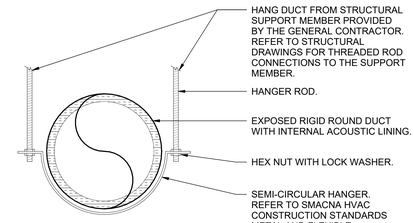
SCALE: NONE



NOTES:
1. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
2. CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
3. STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
4. U.L. APPROVED FIRE DAMPER.
5. SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
6. SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
7. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.
8. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
9. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
10. PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
11. FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL CONFORM TO N.Y.C. MANUFACTURING B.S. AND A. NUMBER 100-65 SM.

7 SHUTTER TYPE FIRE DAMPER SLEEVE DETAIL

SCALE: NONE



HANGER ROD SCHEDULE		
DUCT SIZE	HANGER DIA	MAXIMUM SPACING
UP TO 2 SQ. FT.	16 GAUGE - 3/8"	8'-0"
2 SQ. FT. TO 4 SQ. FT.	11 GAUGE - 1/2"	8'-0"
4 SQ. FT. TO 10 SQ. FT.	11 GAUGE - 1/2"	6'-0"
OVER 10 SQ. FT.	11 GAUGE - 1/2"	4'-0"

3 HANGER DETAIL FOR EXPOSED ROUND DUCTWORK

SCALE: NONE

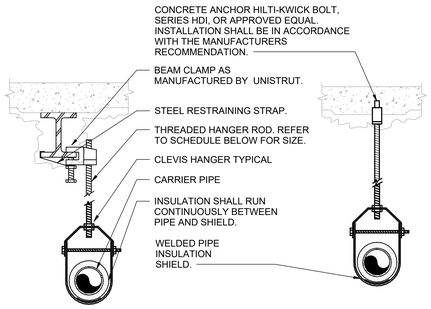
DESIGNER'S NOTE:

UNIT TYPE	A	B
DRAW THRU	2" (50 MM) PLUS X	X
BLOW THRU	1" (25 MM) MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

12 AIR HANDLING UNIT DRAIN TRAP DETAIL

SCALE: NONE

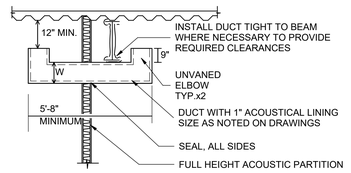


PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

9 PIPE HANGER DETAIL

SCALE: NONE

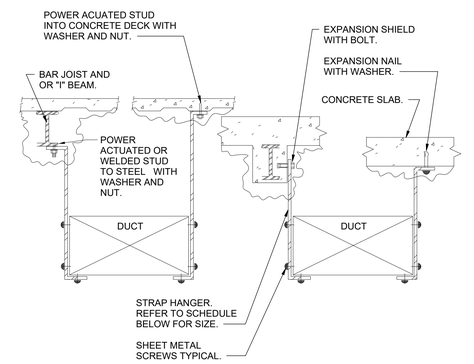


NOTES:
1. DUCT SIZE IS BASED ON CFM; SIZED PER CHART BELOW.

SIZING CHART (U.O.N.)		
NO.	CFM RANGE	SIZE (IN)
TD-1	UP TO 400	14"Ø OR 12x12
TD-2	401 TO 600	16"Ø OR 18x12
TD-3	601 TO 800	18"Ø OR 24x12
TD-4	801 TO 1000	20"Ø OR 30x12
TD-5	1001 TO 1500	24"Ø OR 30x16
TD-6	1501 TO 2000	28"Ø OR 34x20

6 TRANSFER DUCT DETAIL

SCALE: NONE

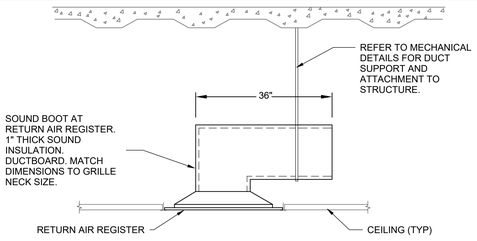


NOTES:
1. FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
2. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
3. ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ. FT.	1" x 1/16"	8'-0"
2 SQ. FT. TO 4 SQ. FT.	1" x 1/8"	8'-0"
4 SQ. FT. TO 10 SQ. FT.	1" x 1/8"	6'-0"
OVER 10 SQ. FT.	1" x 1/8"	4'-0"

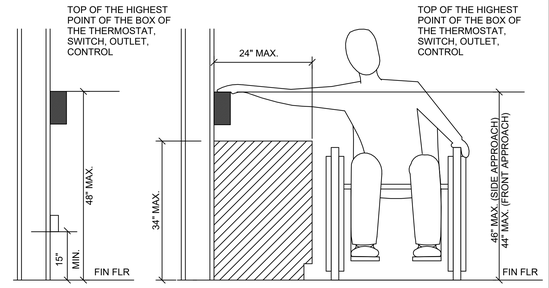
2 DUCT HANGER DETAIL

SCALE: NONE



5 RETURN AIR SOUND BOOT DETAIL

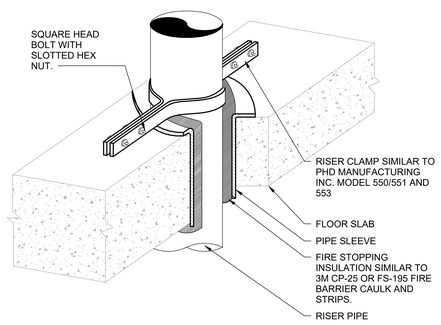
SCALE: NONE



NOTE:
1. PROVIDE 30"W x 27"H x 19"-25"D MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION.

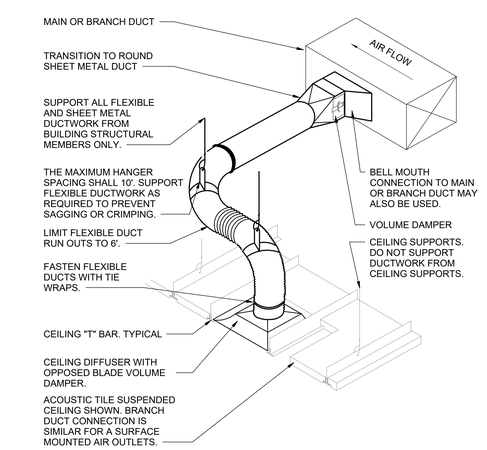
11 THERMOSTAT MOUNTING HEIGHT DETAIL

SCALE: NONE



8 VERTICAL PIPE SUPPORT DETAIL

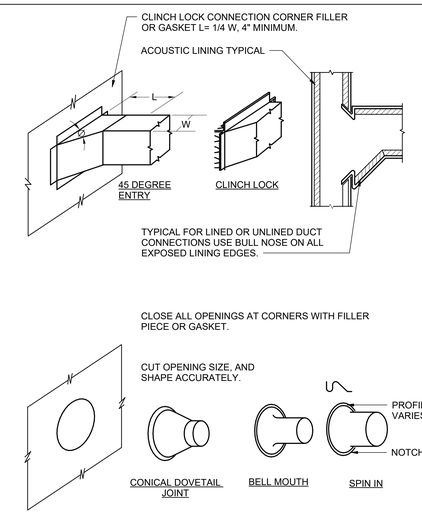
SCALE: NONE



NOTES:
1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

4 FLEXIBLE DUCT CONNECTION DETAIL

SCALE: NONE



1 DUCT BRANCH CONNECTION DETAIL

SCALE: NONE

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914-747-2800
consulting engineers olace.com

MARK	DATE	DESCRIPTION
	06-23-2026	ISSUED FOR BID

STATE OF NEW YORK · JOHN TOMEI · 071678 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JC	JC	RU	JT
PROJECT No:	DATE:	SCALE:	
NH2M0009.00	06/23/2026	AS SHOWN	

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Fitness Center Addition at Harrison High School

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SED NO.: 66-05-01-06-0-011-048

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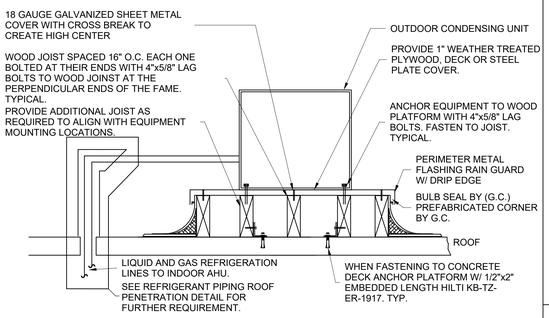
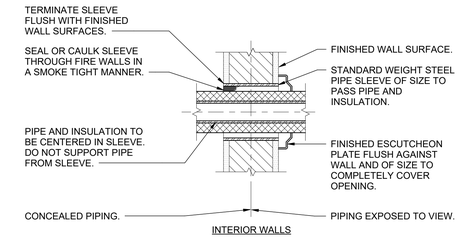


NOTES:
1. ROOF EQUIPMENT PLATFORM BY CONTRACTOR.
2. SHIM AS NECESSARY TO PROVIDE LEVEL PLATFORM.
3. FASTEN TO BUILDING DECK STRUCTURE. COORDINATE WITH STRUCTURAL ENGINEER.
4. EQUIPMENT PLATFORM SHALL BE APPROVED BY STRUCTURAL ENGINEER.
5. WOOD JOISTS TO BE SIZED BY STRUCTURAL ENGINEER.
6. ALL ROOF PENETRATIONS MUST BE WATERPROOFED PER BASE BUILDING STANDARD.
7. EQUIPMENT SHALL BE PROVIDED WITH NEOPRENE PADS AS MEANS OF VIBRATION ISOLATION.

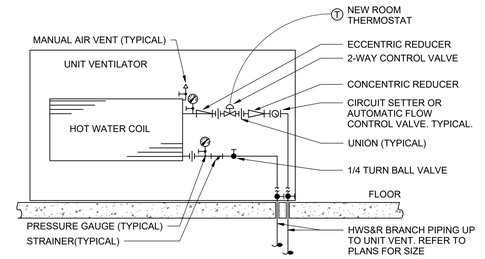
7 CONDENSING UNIT MOUNTING DETAIL

SCALE: NONE



4 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS

SCALE: NONE



NOTE:
1. REFER TO DRAWINGS FOR UNIT VENTILATORS WITH 3-WAY OR 2-WAY COILS.
2. BALANCE COILS AS PER SCHEDULE.
3. DETAIL IS SIMILAR FOR CEILING MOUNTED UNITS.

3 HW CABINET UNIT HEATER PIPING SCHEMATIC

SCALE: NONE

NOTES:
1. ARRANGEMENT IS SIMILAR FOR UPBLAST TYPE FAN AND LINEAR FANS.
2. UPBLAST KITCHEN EXHAUST FAN SHALL NOT HAVE A BACKDRAFT DAMPER.
3. SEE ARCHITECTURE DRAWINGS FOR FLASHING AND COUNTER FLASHING DETAILS.

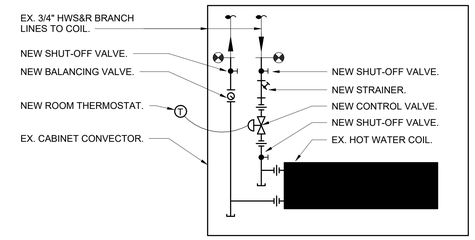
8 ROOFTOP EXHAUST FAN DETAIL

SCALE: NONE

NOTES:
1. PREFABRICATED ROOF CURB AND PIPE BOX ASSEMBLY BASED ON CUSTOM CURB INC. MODEL CPBA-1 CUSTOM ROOF CURB BOX ASSEMBLY WITH 10 INCH HIGH ROOF CURB, 2 INCH RAISED CANT, 1.5 INCH THICK 3.5 POUND RIGID INSULATION, 18 GAUGE GALVANIZED STEEL SHELL AND BASE PLATE, AND 0.050 ALUMINUM PIPE BOX.
2. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.
3. FOR PENETRATION THROUGH CONCRETE DECKS, CORE DRILL HOLE AND FURNISH PIPE SLEEVE AND RISER CLAMP AS REQUIRED BY SPECIFICATIONS.

6 ROOF PIPE BOX DETAIL

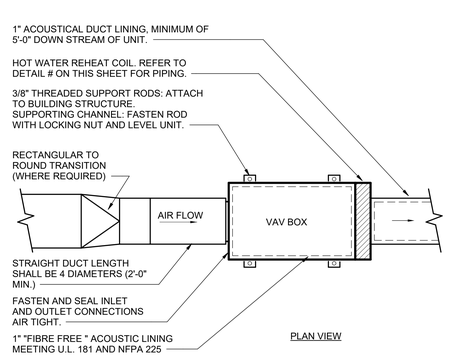
SCALE: NONE



NOTES:
1. DEMOLISH EXISTING BALANCING VALVE, SHUT-OFF VALVES, & SPECIALTIES.
2. PROVIDE NEW 2-WAY CONTROL VALVE IN EXISTING HWS BRANCH PIPING TO CABINET HEATER.
3. PROVIDE NEW BALANCING VALVE IN EXISTING HWR BRANCH PIPING TO CABINET HEATER.
4. COORDINATE EXACT LOCATION OF NEW VALVES IN THE FIELD.
5. CONVECTOR IS SHOWN. PIPING CONFIGURATION IS SIMILAR FOR CABINET UNIT HEATERS.
6. EACH CABINET CONVECTOR SHALL BE RE-BALANCED TO 1.0 GPM.
7. EACH CABINET UNIT HEATER SHALL BE RE-BALANCED TO 2.0 GPM.

2 PIPING SCHEMATIC FOR EXISTING CABINET HEATERS

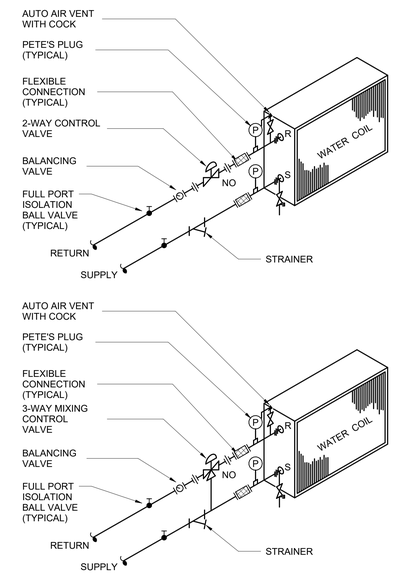
SCALE: NONE

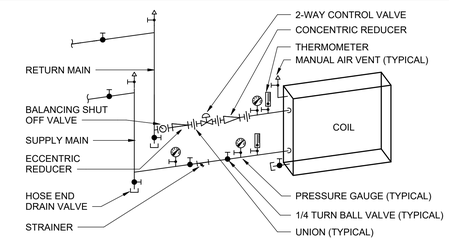


NOTES:
1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. TERMINAL UNITS SHALL BE PROVIDED WITH CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS. FOR UNITS WITH ELECTRONIC CONTROLS, FURNISH NEMA 1 RATED ENCLOSURE AND U.L. II TRANSFORMER AND DISCONNECT SWITCH.
4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCING AND MAINTENANCE.
5. COORDINATE THE LOCATION, SIZE, AND QUANTITY OF REQUIRED ACCESS DOORS. INDICATE REQUIREMENT IN SHEET METAL SHOP DRAWING SUBMITTAL FOR COORDINATION WITH G.C.

5 VARIABLE AIR VOLUME (VAV) BOX INSTALLATION DETAIL

SCALE: NONE





NOTES:
1. LOCATE ALL COIL UNIONS CLOSE TO, AND CLEAR OF, COIL. ARRANGE PIPING SO AS NOT TO INTERFERE WITH COIL REMOVAL.
2. DETAIL IS TYPICAL FOR UNIT VENTILATORS, CABINET UNIT HEATERS, FAN COIL UNITS, AND AIR HANDLING UNITS.
3. PROVIDE FLEXIBLE CONNECTION FOR THOSE COILS MOUNTED IN UNITS ON VIBRATION ISOLATORS.

PIPE SIZE SCHEDULE

PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
MAX. GPM	2	3.5	7	13	22	45	70	130	260	480	750

1 HYDRONIC COIL WITH 2-WAY VALVE PIPING SCHEMATIC

SCALE: 12" = 1'-0"

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CONSULTANTS:
OLA Consulting Engineers
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Suite 102
Valhalla, NY 10595
914-747-2800
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MARK	DATE	DESCRIPTION
	06-23-2026	ISSUED FOR BID

STATE OF NEW YORK · JOHN TORTORELLA · 071678 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
JC	JC	RU	JT

PROJECT No:	DATE:	SCALE:
NH2M0009.00	06/23/2026	AS SHOWN

CLIENT
Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT
CONTRACT H MECHANICAL WORK

STATUS
FINAL BID DOCUMENTS

SHEET TITLE
MECHANICAL DETAILS

DRAWING No.
M 702.00

Autodesk Docs://NH2M0009_HCSD Fitness Center Addition_R25/NH2M0009_MP_CENTRAL_R25.rvt
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SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING
	-	CONDUIT & WIRING TO BE REMOVED UON
UG	-	BURIED CONDUIT
OH	-	OVERHEAD CONDUCTORS
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P
	-	MULTI-POLE HOMERUN
	-	ELECTRICAL EQUIPMENT AS INDICATED
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON
M	-	ELECTRIC METER
J	-	JUNCTION BOX
J	-	FUSED DISCONNECT SWITCH
J	-	UNFUSED DISCONNECT SWITCH
J	-	COMBINATION MOTOR STARTER/FUSED DISC.
	-	MOTOR STARTER
	-	MOTOR
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW
S_x	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^3	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^4	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^{DIM}	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_M	-	MOTOR RATED TOGGLE SWITCH
S_K	-	KEY OPERATED SINGLE POLE SWITCH
	-	WALL MOUNTED OCCUPANCY SENSOR
OC	-	CEILING MOUNTED OCCUPANCY SENSOR
PC	-	PHOTOCELL
	-	DUPLEX RECEPTACLE
	-	DOUBLE DUPLEX RECEPTACLE
FLR	-	FLOOR MOUNTED DUPLEX RECEPTACLE
	-	TELEPHONE OUTLET
x	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)
FLR	-	FLOOR MOUNTED DATA OUTLET
F	-	FIRE ALARM MANUAL PULL STATION
F V	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE) - V = VOICE COMMUNICATION
F 110 V	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE) - V = VOICE COMMUNICATION
F	-	FIRE ALARM STROBE 15/75 CD
F 110	-	FIRE ALARM STROBE 110 CD
	-	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE
S EL; SH; SC	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING
SB	SB	FIRE ALARM DEVICE. SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR
S AC	-	DUCT MOUNTED SMOKE DETECTOR
H	-	HEAT DETECTOR
CO	-	CARBON MONOXIDE DETECTOR
DR	-	FIRE ALARM DOOR RELEASE
ANN	-	FIRE ALARM ANNUNCIATOR PANEL
CM	CM	FIRE ALARM CONTROL MODULE
MM	MM	FIRE ALARM MONITORING MODULE
FACP	FACP	FIRE ALARM CONTROL PANEL
BPS	BPS	BOOSTER POWER SUPPLY
DGP	DGP	DATA GATHERING PANEL
R	-	FIRE ALARM RELAY
	EOL	END OF LINE RESISTOR
	-	WALL MOUNTED PUBLIC ADDRESS SPEAKER CLOCK
	-	PUBLIC ADDRESS TELEPHONE
SP	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
S	-	CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER
C	-	CLOCK
TC	-	TIME CLOCK
CR	-	CARD READER
DA	-	DOOR ALARM
	CB	CIRCUIT BREAKER
20/40 100/AF	-	FUSED SWITCH
OR	GND	GROUND AS PER LOCAL CODE
	-	TRANSFER SWITCH
OR T	XFMR	TRANSFORMER

SYMBOL	ABBREVIATION	DESCRIPTION
	CT	CURRENT TRANSFORMER
	NC	NORMALLY CLOSED CONTACTS
	NO	NORMALLY OPEN CONTACTS
VAV	VAV	VARIABLE AIR VOLUME BOX
	A	AMPERE(S)
	AC	AIR CONDITIONER
	ACC	AIR CONDITIONER CONDENSER
	AFF	ABOVE FINISHED FLOOR
	AF	AMPERAGE OF FUSE
	AGL	ABOVE GRADE LEVEL
	AHU	AIR HANDLING UNIT
	AL	ALUMINIUM
	ARC	ARC FAULT INTERRUPTER
	AS	AMPERAGE OF SWITCH
	ATS	AUTOMATIC TRANSFER SWITCH
	AWG	AMERICAN WIRE GAUGE
	BCW	BARE COPPER WIRE
	BLDG	BUILDING
	BMS	BUILDING MANAGEMENT SYSTEM
	C	CONDUIT
	CD	CANDELA
	CKT	CIRCUIT
	CLG	CEILING
	COL	COLUMN
	CU	COPPER
	CUH	CABINET UNIT HEATER
	DEM.	DEMOLISH AND REMOVE
	DISC	DISCONNECT
	DIM	DIMMER
	DWG	DRAWING
	ELEV	ELEVATOR
	EMT	ELECTRICAL METALLIC TUBING
	EM	EMERGENCY
	EX.	EXISTING TO REMAIN
	F	FLOOR
	FBO	FURNISHED BY OTHERS
	FC	FAN COIL UNIT
	GFI	GROUND FAULT INTERRUPTER
	HP	HORSEPOWER
	HVAC	HEATING VENTILATION AIR CONDITIONING
	KVA	KILO-VOLT-AMPERE
	KW	KILO-WATT
	MAX	MAXIMUM
	MCB	MAIN CIRCUIT BREAKER
	MIN	MINIMUM
	MLO	MAIN LUG ONLY
	NIC	NOT IN CONTRACT
	NTS	NOT TO SCALE
	PBO	PROVIDED BY OTHERS
	PNL	PANEL
	PT	PRESSURE TREATED
	PVC	POLY VINYL CHLORIDE
	REL.	REMOVE AND RELOCATE
	RGS	RIGID GALVANIZED STEEL
	RTU	ROOF TOP UNIT
	SCH	SCHEDULE
	SPD	SURGE PROTECTION DEVICE
	SW	SWITCH(ES)
	TELCO	TELEPHONE COMPANY
	TYP	TYPICAL
	UG	UNDERGROUND
	UON	UNLESS OTHERWISE NOTED
	UV	UNIT VENTILATOR
	VIF	VERIFY IN FIELD
	V	VOLT(S)
	VSD	VARIABLE SPEED DRIVE
	WG	WIRE GUARD
	WH	WATER HEATER
	WP	WEATHERPROOF

NOTES:
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)

3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)

2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)

13 — CIRCUIT # / RECEPTACLE

15 — A / B — LIGHT FIXTURE TYPE / SWITCH CONTROL / LIGHT FIXTURE CIRCUIT #

NOTES:
1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

GENERAL NOTES

1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A THIRD PARTY ELECTRICAL INSPECTION AGENCY TO PROVIDE UL INSPECTIONS AND SUBMIT A CERTIFICATE OF INSPECTION PRIOR TO FINAL REQUEST FOR PAYMENT.
5. ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
6. ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
7. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
8. CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
9. FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY OTHERS.
10. COMMUNICATION WIRING BY OTHERS. COORDINATE COMMUNICATION JACKS WITH REPRESENTATIVE, TYPICAL.
11. WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
12. INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
13. UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
14. DISCONNECT SWITCHES FOR VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
15. ALL CONDUCTORS INSTALLED BETWEEN VFDs AND ASSOCIATED MOTORS SHALL BE XHHW-2, 1000V IN RGS, IMC, EMT, FMC OR LFMC.
16. INCLUDE IN BASE BID (2) 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

    FIRST FLOOR - PPS1-16
    SECOND FLOOR - PPS2-18

17. EACH DUPLEX AND QUAD RECEPTACLE SHALL BE LABELED WITH THE CIRCUIT NUMBER WHICH IT SERVES. ALPHANUMERICS TO BE 1/8" HIGH AND BLACK ON CLEAR BACKGROUND. LABELS SHALL BE SELF ADHESIVE. IDENTIFY ASSOCIATED PANEL AND CIRCUIT NUMBER.
18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC, INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.

DEFINITION OF TERMS

1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "HARRISON CENTRAL SCHOOL DISTRICT" IS INTENDED.
2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "H2M ARCHITECTS" IS INTENDED.
3. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
4. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.
5. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
6. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "OPEN SYSTEMS (CHARLIE MAGNOTTA (914) 241-0057)" IS INTENDED.
7. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
8. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
9. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
10. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
11. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

DEMOLITION NOTES

1. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
3. CIRCUIT BREAKER, DISCONNECT SWITCH, PANELBOARD, EQUIPMENT, CONDUIT CONDUCTOR, ETC. SIZES AND RATINGS INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
5. ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES. INCLUDE ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED EXPECT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT AND/OR ENGINEER.
7. ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO REMAIN OPERATIONAL BUT IS AFFECTED BY DEMOLITION WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF ELECTRICAL SYSTEM OF THE BUILDING(S).
8. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL OUTLETS, SWITCHES, AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUIT, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS MAKE DEAD ELECTRICAL WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE THE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO THE PANELBOARD.
9. ALL RACEWAYS WHICH BECOME EXPOSED BEYOND FINISHED SURFACES BECAUSE OF THE ALTERATION WORK SHALL BE REMOVED AND REROUTED BEHIND THE FINISHED SURFACES.
10. PORTIONS OF FEEDER LINES THAT HAVE TO BE REMOVED AS A RESULT OF DEMOLITION WORK, BUT ARE REQUIRED TO CONTINUE TO FUNCTION, SHALL BE CUT AT CONVENIENT LOCATIONS OUTSIDE OF THE AREA OF WORK, REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTED: CONDUCTOR CAPACITY, CONDUIT SIZE, ETC.

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MARK	DATE	DESCRIPTION
1	06/24/2026	ISSUED FOR BID

STATE OF NEW YORK · JOHN TOMPKINS · LICENSED PROFESSIONAL ENGINEER · 071678

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
J. JIMENEZ	J. JIMENEZ	D. SMITH M. LILLIS	D. SMITH M. LILLIS

PROJECT No: NH2M0009.00 | DATE: JANUARY 2026 | SCALE: AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY · ACCESS · HARRISON CENTRAL SCHOOL DISTRICT · RIGOR · ADAPTABILITY

255 Union Ave, Harrison, NY 10528

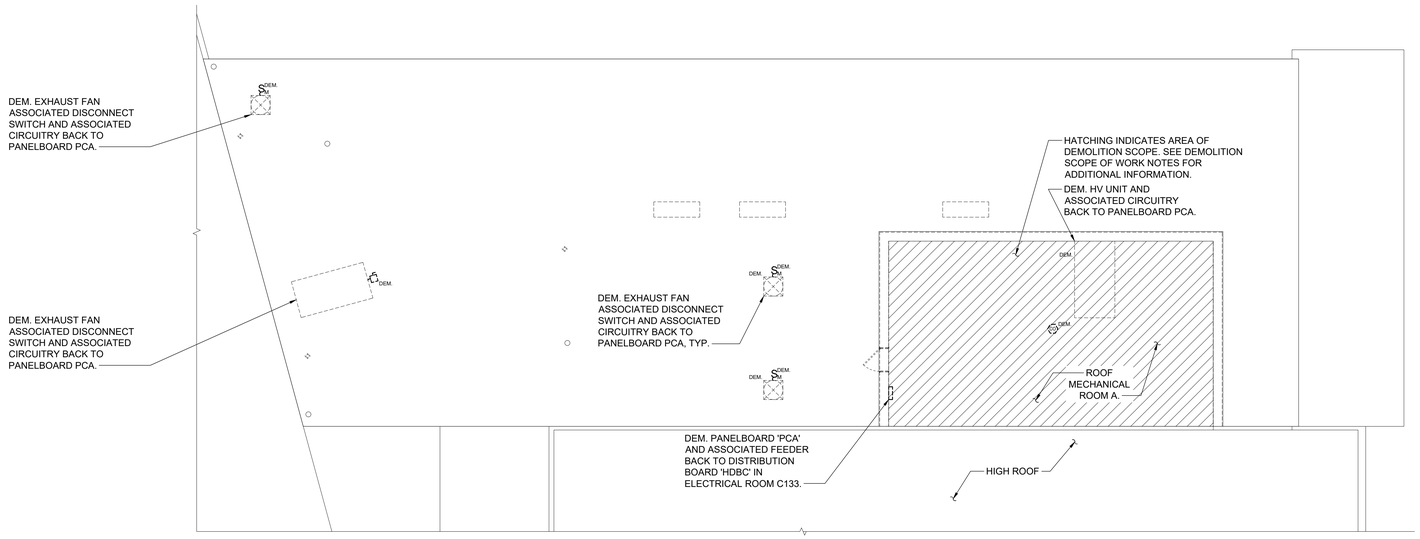
SED NO.: 66-05-01-06-0-011-048

CONTRACT
CONTRACT E ELECTRICAL WORK

STATUS
FINAL BID DOCUMENTS

SHEET TITLE
ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

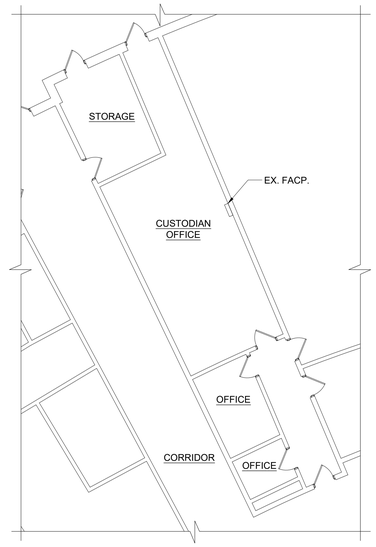
DRAWING No.
E 001.00



NORTH

5 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

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



NORTH

3 ELECTRICAL FIRST FLOOR CUSTODIAN OFFICE PART PLAN

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

REL. PANELBOARD 'SLP' TO ACCOMMODATE THE ALTERATION OF WALL. DISCONNECT, PULL BACK AND SAFE OFF FEEDERS FOR REINSTALLATION ON ALTERED WALL. ALLOW FOR 20' OF 2-#12 & 1-#12 GND IN 3/4" CONDUIT FOR THE EXTENSION OF EACH EXISTING BRANCH CIRCUITS.

REL. DISCONNECT SWITCHES AND ASSOCIATED TROUGH TO ACCOMMODATE THE ALTERATION OF WALL. DISCONNECT, PULL BACK AND SAFE OFF FEEDERS FOR THE DURATION OF CONSTRUCTION AND EXTEND TO REVISED LOCATION.

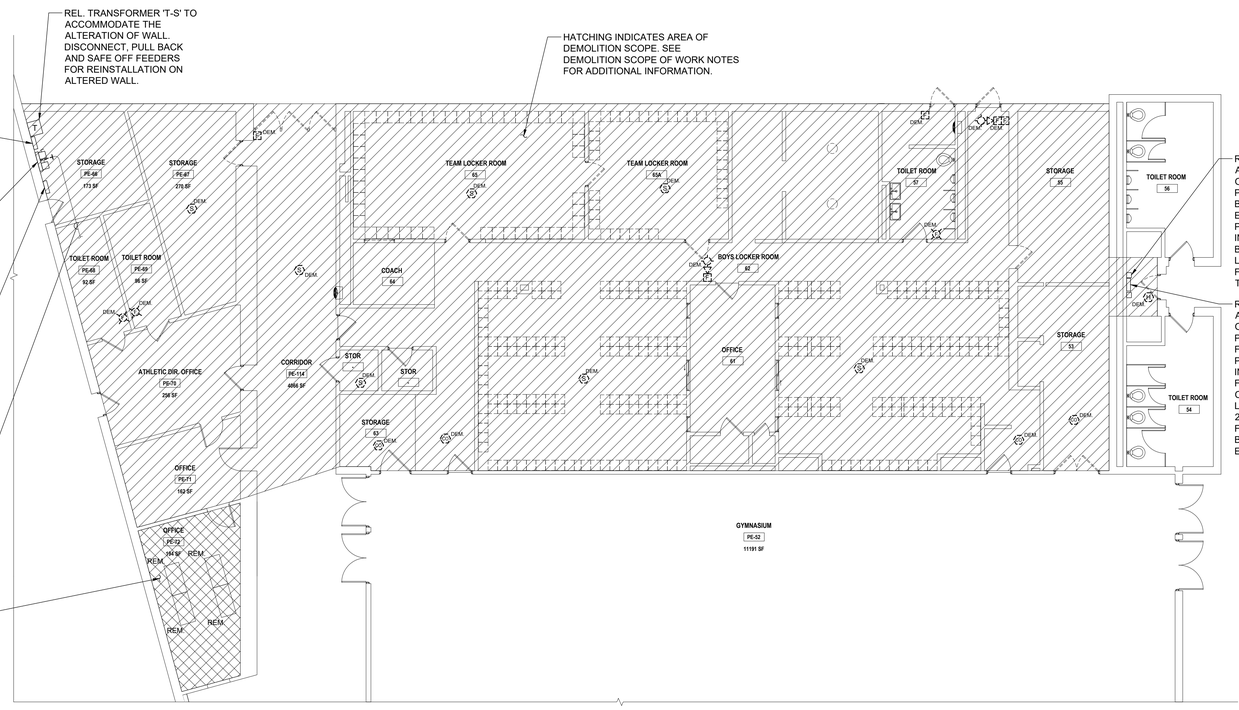
REL. PANELBOARD 'PPS' TO ACCOMMODATE THE ALTERATION OF WALL. DISCONNECT, PULL BACK AND SAFE OFF FEEDERS FOR REINSTALLATION ON ALTERED WALL. ALLOW FOR 20' OF 2-#12 & 1-#12 GND IN 3/4" CONDUIT FOR THE EXTENSION OF EACH EXISTING BRANCH CIRCUITS.

DISCONNECT, PULL BACK AND SAFE OFF FEEDERS FOR DISCONNECT SWITCHES TO ALLOW FOR THE RELOCATION OF THE EQUIPMENT AND ALTERATION OF WALL. CONTRACTOR SHALL SUPPORT AND PROTECT CONDUIT AND FEEDERS DURING THE DURATION OF THE CONSTRUCTION. EXTEND AS REQUIRED FOR REINSTALLATION. SEE ONE-LINE DIAGRAMS FOR SIZES.

SEE DEMOLITION SCOPE NOTE #8.

REL. TRANSFORMER 'T-S' TO ACCOMMODATE THE ALTERATION OF WALL. DISCONNECT, PULL BACK AND SAFE OFF FEEDERS FOR REINSTALLATION ON ALTERED WALL.

HATCHING INDICATES AREA OF DEMOLITION SCOPE. SEE DEMOLITION SCOPE OF WORK NOTES FOR ADDITIONAL INFORMATION.



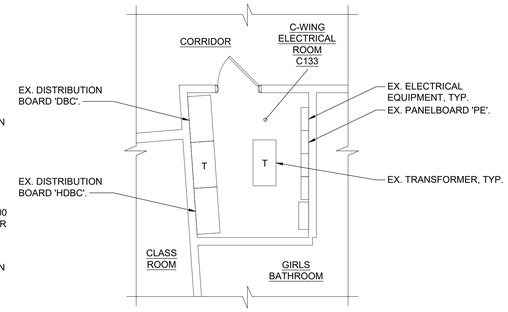
REL. LIGHTING POWER PACK TO ACCOMMODATE THE ALTERATION OF THE SPACE. DISCONNECT, PULL BACK AND SAFE OFF BRANCH CIRCUITRY FOR EXTENSION AND RELOCATION. PROVIDE JUNCTION BOX FOR INTERCEPTING AND EXTENDING BRANCH CIRCUITRY TO REVISED LOCATION. SEE DRAWING E-301.00 FOR REVISED LOCATION, TYP FOR TWO.

REL. PANELBOARD 'P1' TO ACCOMMODATE THE ALTERATION OF THE SPACE. DISCONNECT, PULL BACK AND SAFE OFF FEEDERS FOR REINSTALLATION. PROVIDE TROUGH FOR INTERCEPTING AND EXTENDING FEEDERS AND BRANCH CIRCUITRY TO REVISED LOCATION. ALLOW FOR 50' OF (21) 2-#12 &1-#12 GND IN 3/4" CONDUIT FOR EXTENDING EXISTING BRANCH CIRCUITS. SEE DRAWING E-301.00 FOR REVISED LOCATION.

NORTH

4 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

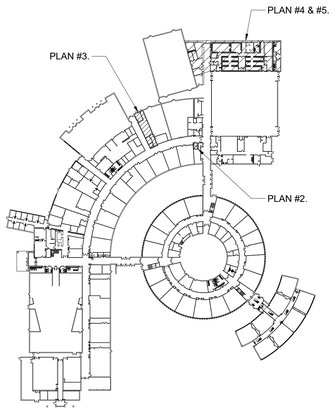
SCALE: 1/8" = 1'-0"



NORTH

2 ELECTRICAL FIRST FLOOR C-WING ELECTRICAL ROOM C133 PART PLAN

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



1 ELECTRICAL KEY PLAN

SCALE: 1" = 100'

NORTH

DEMOLITION SCOPE NOTES:

1.) DEMOLISH ALL LIGHTING FIXTURES AND ASSOCIATED CIRCUITRY WITHIN THE AREA OF WORK BACK TO SOURCE.

2.) DEMOLISH ALL LIGHTING CONTROLS AND ASSOCIATED CIRCUITRY WITHIN THE AREA OF WORK BACK TO SOURCE.

3.) DEMOLISH ALL EXIT SIGNS AND ASSOCIATED CIRCUITRY WITHIN THE AREA OF WORK BACK TO SOURCE.

4.) DEMOLISH ALL WIRING DEVICES, RACEWAYS AND BRANCH CIRCUITRY WITHIN THE AREA OF WORK BACK TO SOURCE.

5.) DEMOLISH ALL LOW VOLTAGE DEVICES AND ASSOCIATED WIRING BACK TO SOURCE. COORDINATE SOURCE IN FIELD.

6.) DEMOLISH ALL FIRE ALARM DEVICES WITHIN AREA OF WORK. DEMOLISH CIRCUITRY TO OUTSIDE SPACE AND SAFE OFF FOR REUSE. PROVIDE WIRING TO KEEP THE REST OF THE SYSTEM OUTSIDE OF THE SPACE OPERATIONAL DURING CONSTRUCTION.

7.) DEMOLISH MECHANICAL AND PLUMBING EQUIPMENT DISCONNECT SWITCHES AND ASSOCIATED CIRCUITRY BACK TO SOURCE, VIF. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EQUIPMENT TO BE DEMOLISHED.

8.) REMOVE, CLEAN, STORE, TEST AND REINSTALL CEILING MOUNTED DEVICES TO ALLOW FOR THE INSTALLATION OF NEW CEILING GRID. THESE DEVICES ARE INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, CEILING MOUNTED LIGHTING CONTROLS, CEILING MOUNTED FIRE ALARM DEVICES, ETC. DISCONNECT AND SAFE OFF EXISTING WIRING TO BE REUTILIZED FOR RECONNECTION. EXTEND AS REQUIRED.

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1	06/24/2026	ISSUED FOR BID

STATE OF NEW YORK · JOHN TOMEE · 071678 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
J. JIMENEZ	J. JIMENEZ	D. SMITH M. LILLIS	D. SMITH M. LILLIS

PROJECT No.: NH2M0009.00 | DATE: JANUARY 2026 | SCALE: AS SHOWN

CLIENT
Harrison Central School District

Fitness Center Addition at Harrison High School

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

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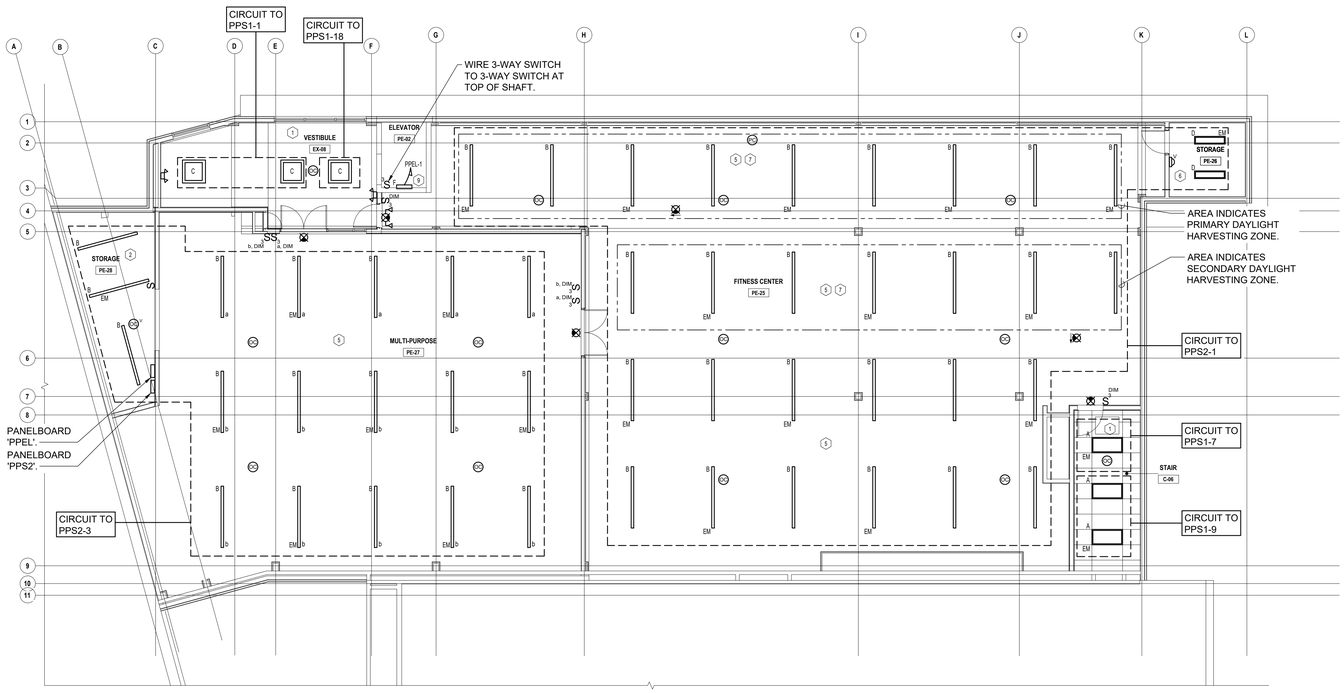
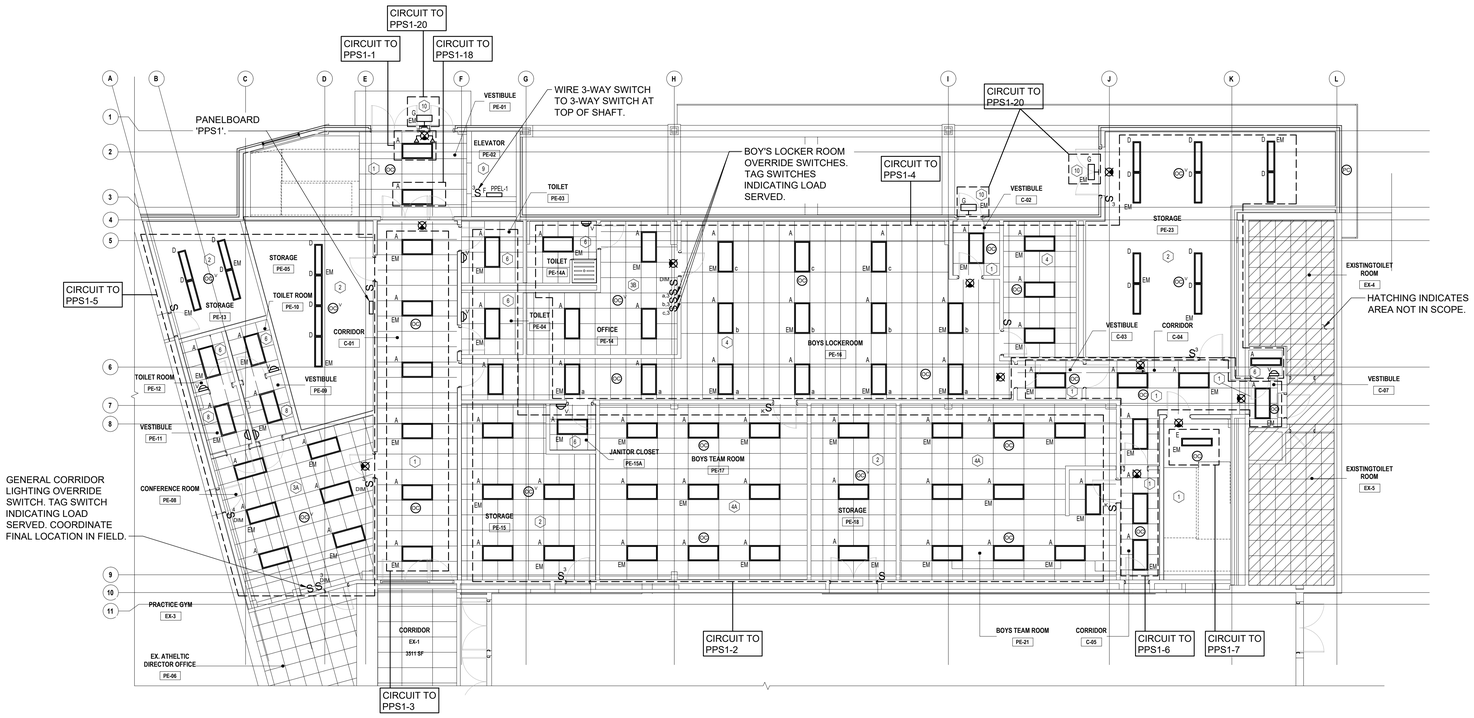
SHEET TITLE
ELECTRICAL DEMOLITION PLAN

DRAWING No.
E 101.00



3 ELECTRICAL PARTIAL SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

NORTH



2 ELECTRICAL PARTIAL FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

NORTH

NOTES:

1. SEE DRAWING E 301.00 FOR CONTROLLED RECEPTACLE INFORMATION.

LIGHITNG CONTROL LEGEND:

1. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL OFF WALL SWITCHES AND AUTOMATIC TIMER. LIGHTS SHALL BE PROGRAMMED TO TIME ON AT START OF BUSINESS DAY. DURING BUSINESS HOURS, LIGHT FIXTURES SHALL BE DIMMED TO 50%, MAX, WHILE SPACE IS UNOCCUPIED AND RAMP UP TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED. AT THE END OF BUSINESS DAY, LIGHT FIXTURES SHALL TIMEOUT AND BE OFF. UPON DETECTION OF OCCUPANCY, LIGHTS SHALL RAMP UP TO FULL BRIGHTNESS.
2. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH WALL MOUNTED SWITCH.
3. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH DIMMING.
3A. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH WALL MOUNTED DIMMER SWITCH AND RECEPTACLE CONTROL.
3B. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED DIMMER SWITCH AND RECEPTACLE CONTROL.
4. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED SWITCH.
4A. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED KEY SWITCH.
5. LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED DIMMER SWITCH.
6. LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
6A. LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH DIMMING AND RECEPTACLE CONTROL.
7. DAYLIGHT HARVESTING ZONE.
8. LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
9. MANUAL ON/OFF SWITCH.
10. OUTDOOR FIXTURES CONTROLLED VIA PHOTOCELL.

DESIGN INTENT - LIGHTING CONTROL SYSTEM

1.) LIGHTING CONTROL SYSTEM IS BASED ON LEVITON (PAUL DERBINSKY (201) 410-1327) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)

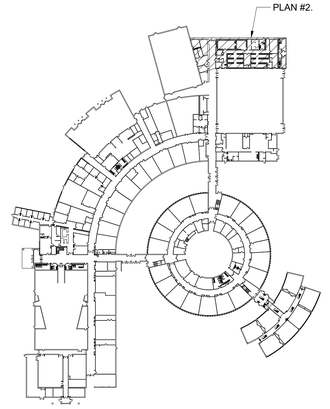
2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL CONTRACTOR IS RESPONSIBLE FOR DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.

3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.

4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.

5.) VACANCY SENSING: MANUAL ON/AUTO OFF; OCCUPANCY SENSING: AUTO ON/AUTO OFF.

6.) PROVIDE ALL WIRING, POWER PACKS, CONTACTS, ETC. TO PROVIDE RECEPTACLE CONTROL. SEE DRAWING E31 FOR INFORMATION ON RECEPTACLE CONTROL.



1 ELECTRICAL KEY PLAN
SCALE: 1" = 100'

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255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

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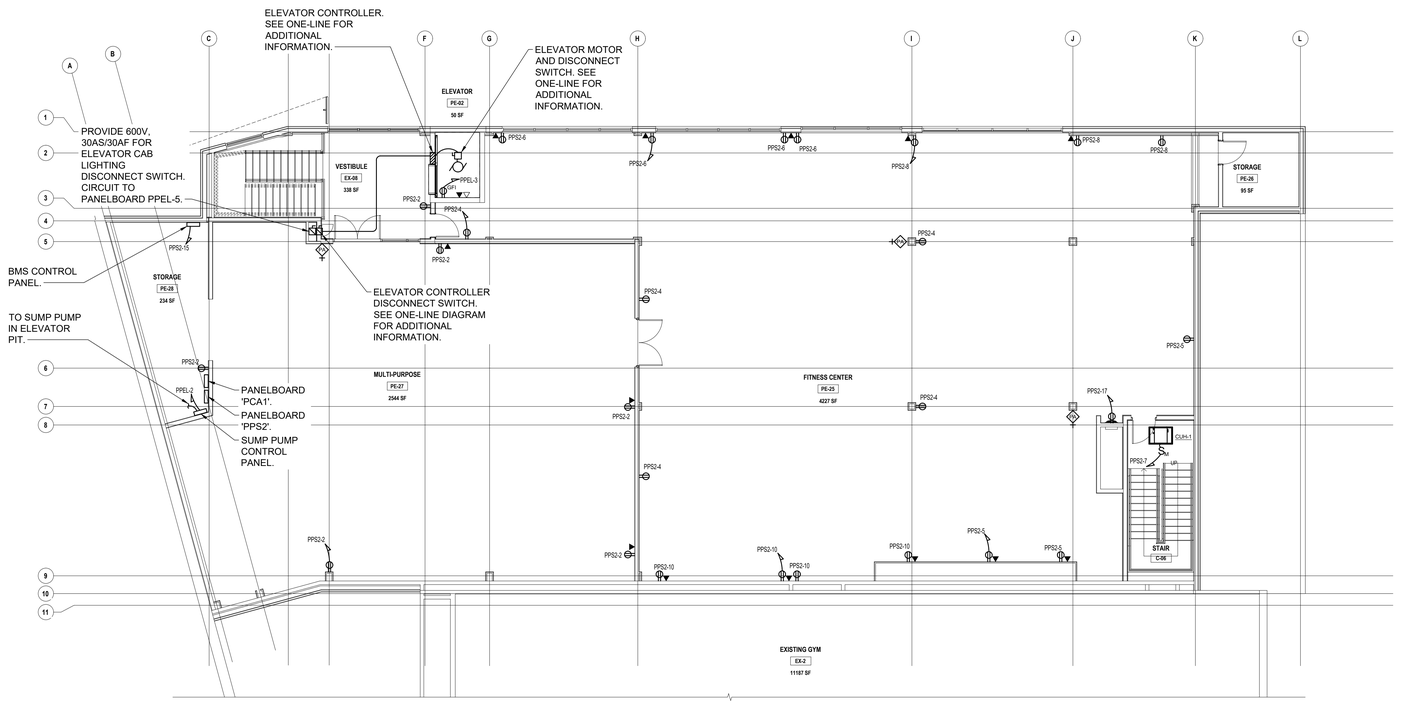
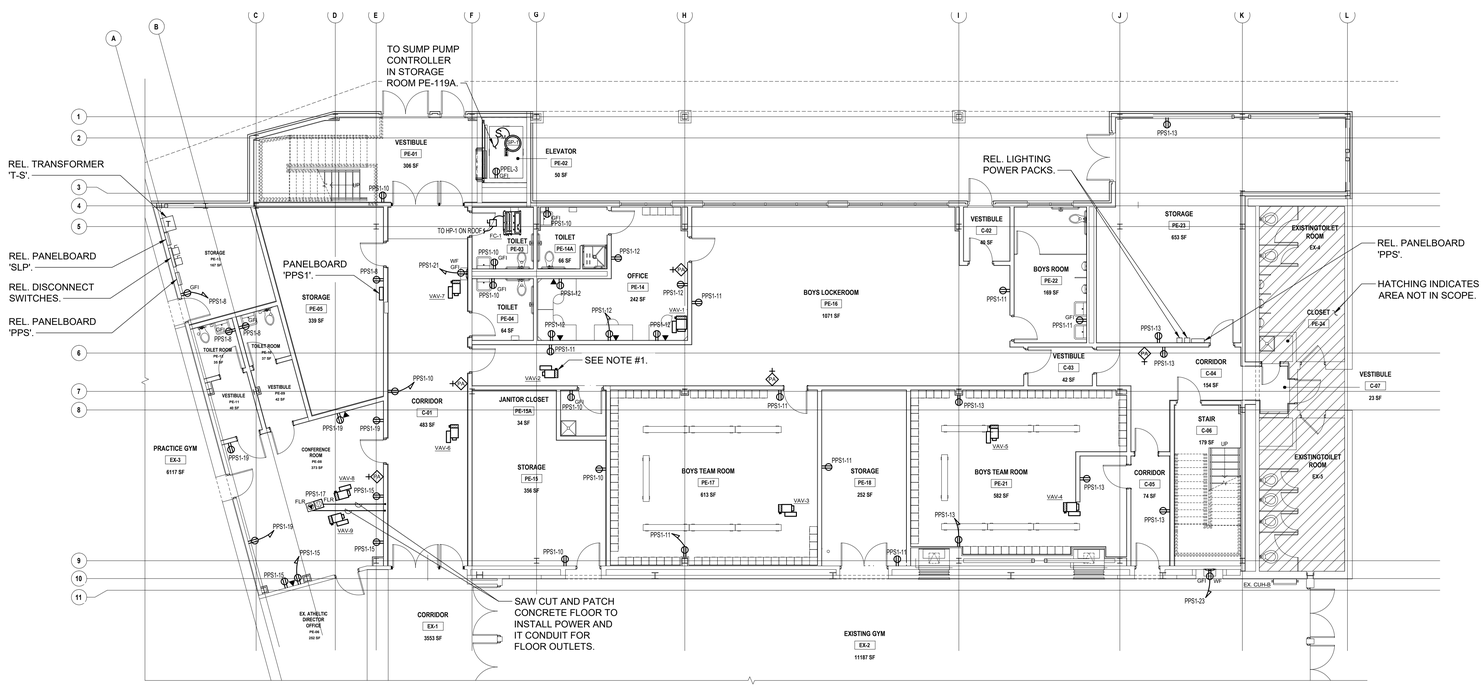
FINAL BID DOCUMENTS

SHEET TITLE
ELECTRICAL FIRST & SECOND FLOOR LIGHTING PLAN

DRAWING No.
E 201.00



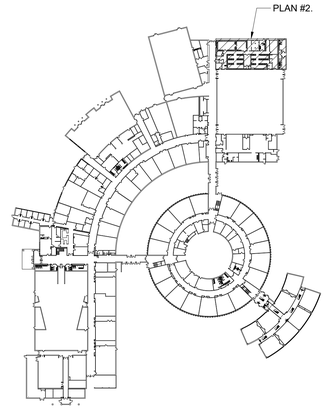
3 ELECTRICAL PARTIAL SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH



2 ELECTRICAL PARTIAL FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH

NOTES:

1. CIRCUIT ALL VAV UNITS TO PPS1-14.
2. RECEPTACLES WITHIN THE CONFERENCE ROOM AND OFFICES SHALL HAVE AUTOMATIC RECEPTACLE CONTROL. EACH RECEPTACLE SHALL BE SPLIT CONTROLLED, PROVIDED WITH THE TOP OR LEFT RECEPTACLE CONTROLLED. LOCAL OCCUPANCY SENSOR SHALL TURN OFF THE RECEPTACLES WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
3. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70.
4. SEE DRAWING E-201.00 FOR ASSOCIATED LIGHTING/RECEPTACLE CONTROL INFORMATION.



1 ELECTRICAL KEY PLAN
SCALE: 1" = 100'
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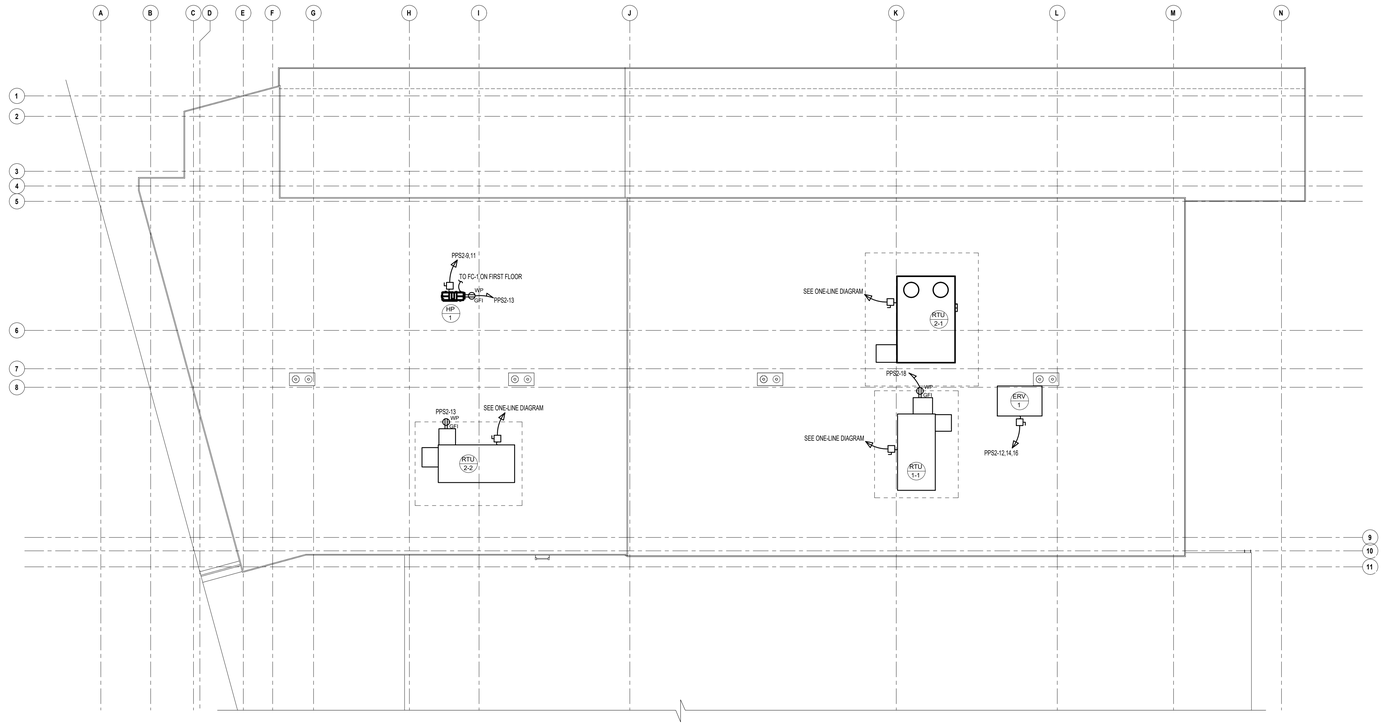
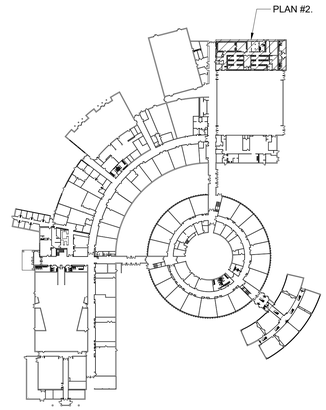
SHEET TITLE
ELECTRICAL FIRST & SECOND FLOOR POWER PLAN

DRAWING No.
E 301.00



2 ELECTRICAL ROOF POEWR PLAN
SCALE: 1/8" = 1'-0"
NORTH



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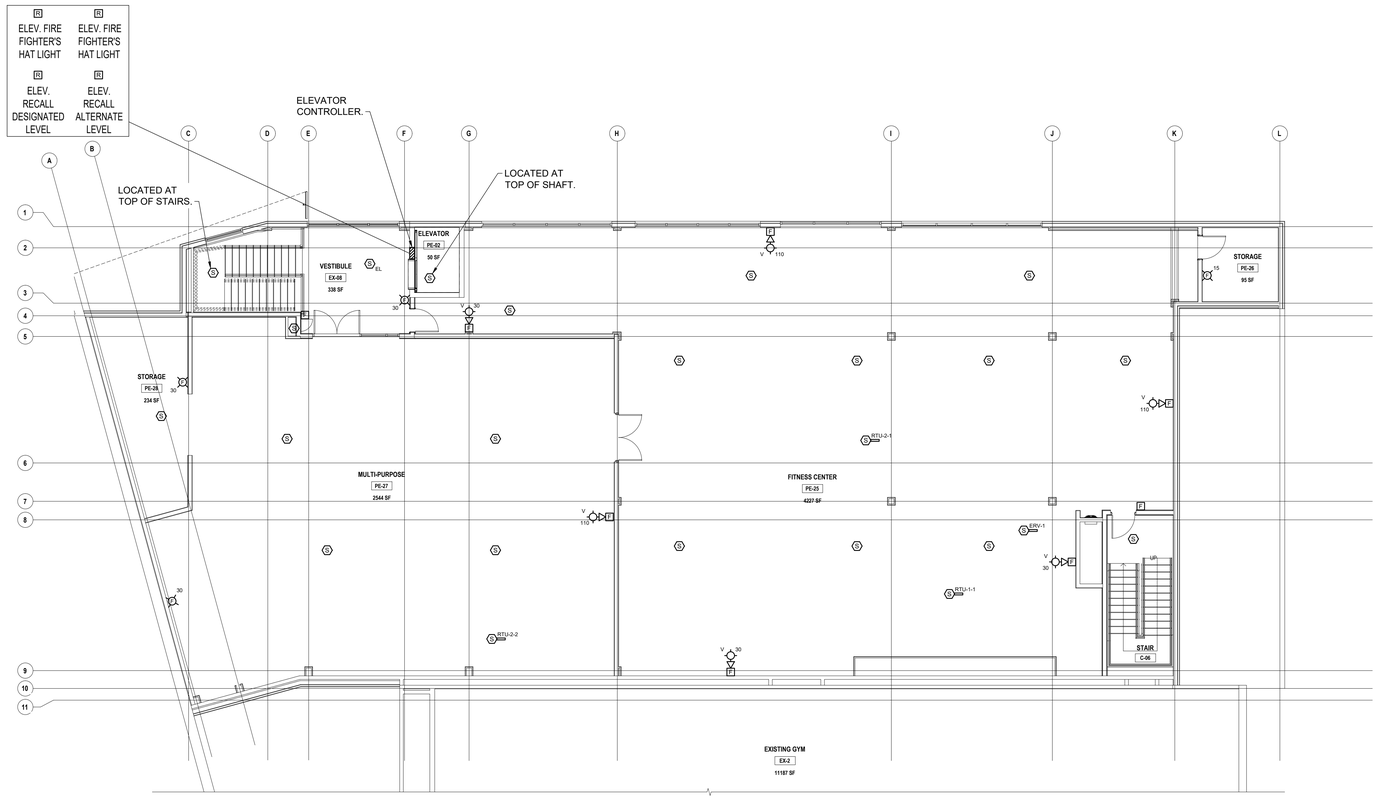
SHEET TITLE

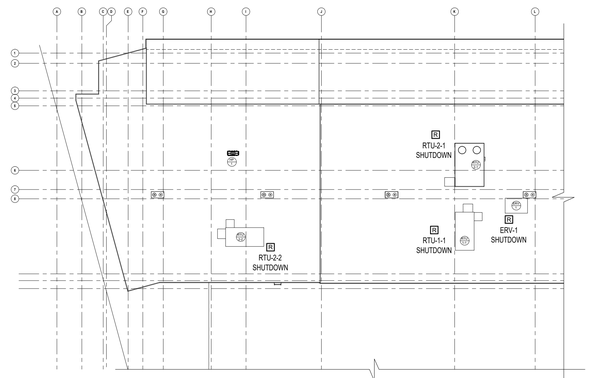
ELECTRICAL ROOF PLAN

DRAWING No.

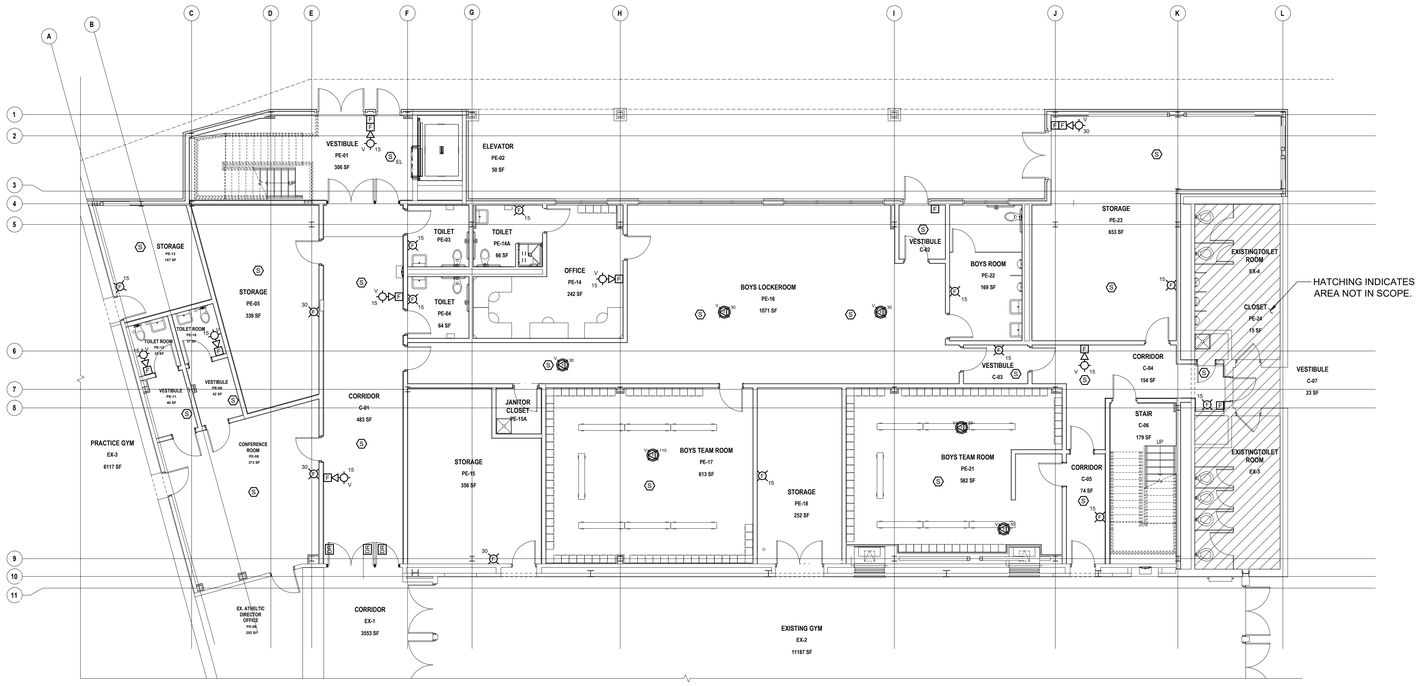
E 302.00



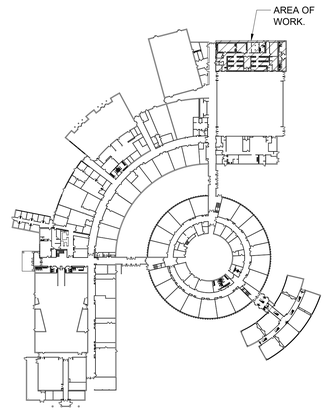
4 FIRE ALARM PARTIAL SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH



2 FIRE ALARM PARTIAL ROOF PLAN
SCALE: 1/16" = 1'-0"
NORTH



3 FIRE ALARM PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH



1 FIRE ALARM KEY PLAN
SCALE: 1" = 100'
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FIRE ALARM FIRST FLOOR, SECOND FLOOR AND ROOF PLAN

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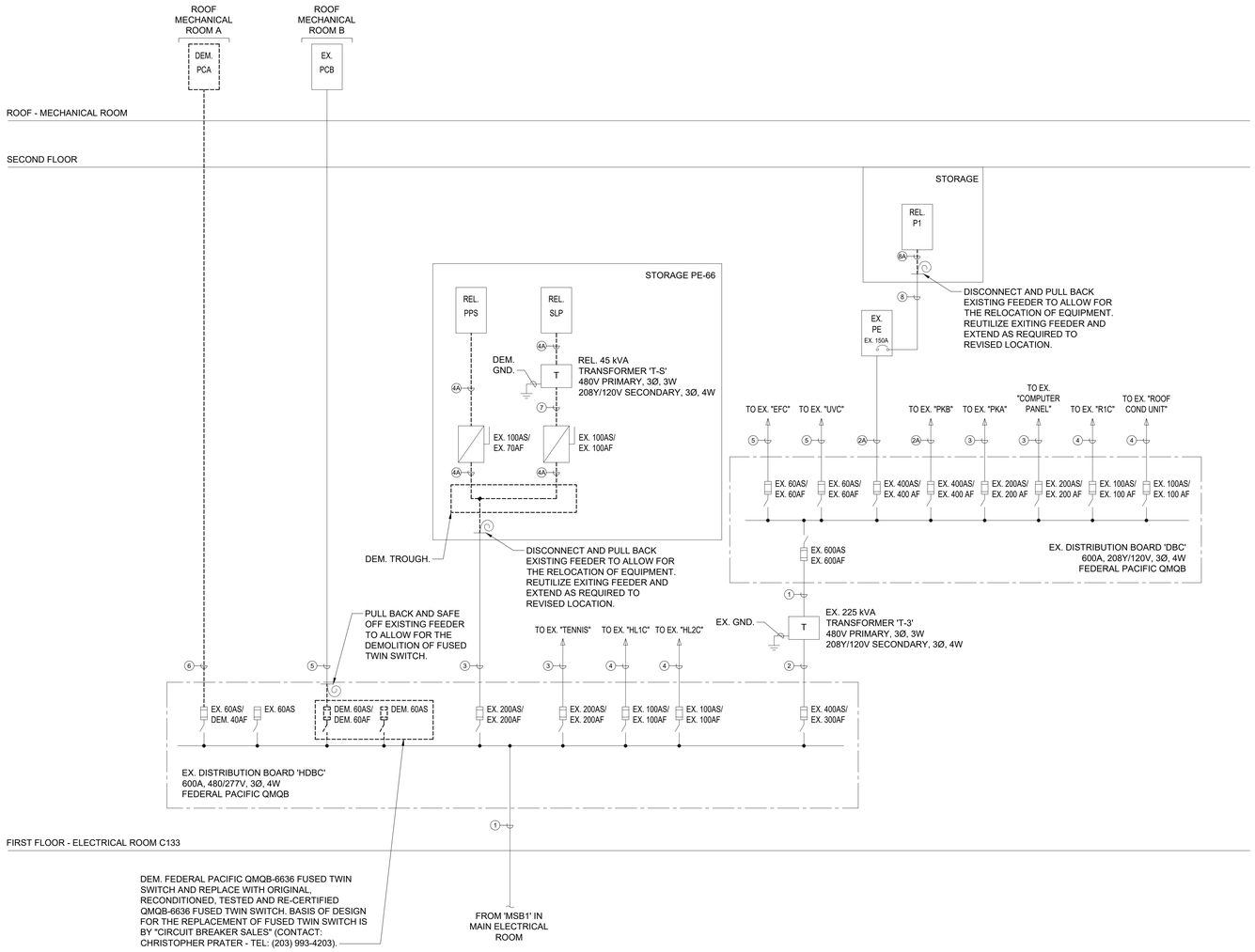

1 ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

SCALE: NONE

NOTES:
1. ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, U.O.N.

WIRING/CONDUIT LEGEND:

1	EX. 2 SETS OF 4-#500MCM & 1-#1 GND IN (2) 3" CONDUIT.
2	EX. 3-#500MCM & 1-#1 GND IN 3" CONDUIT.
2A	EX. 4-#500MCM & 1-#1 GND IN 3" CONDUIT.
3	EX. 4-#3/0 & 1-#6 GND IN 2" CONDUIT.
4	EX. 4-#2 & 1-#8 GND IN 1-1/4" CONDUIT.
4A	DEM. 4-#2 & 1-#8 GND IN 1-1/4" CONDUIT.
5	EX. 4-#4 & 1-#10 GND IN 1" CONDUIT.
6	DEM. 4-#4 & 1-#10 GND IN 1" CONDUIT.
7	DEM. 3-#6 & EX. GND IN 1" CONDUIT.
8	EX. 4-#2/0 & 1-#4 GND IN 2" CONDUIT.
8A	DEM. 4-#2/0 & 1-#4 GND IN 2" CONDUIT.

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ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

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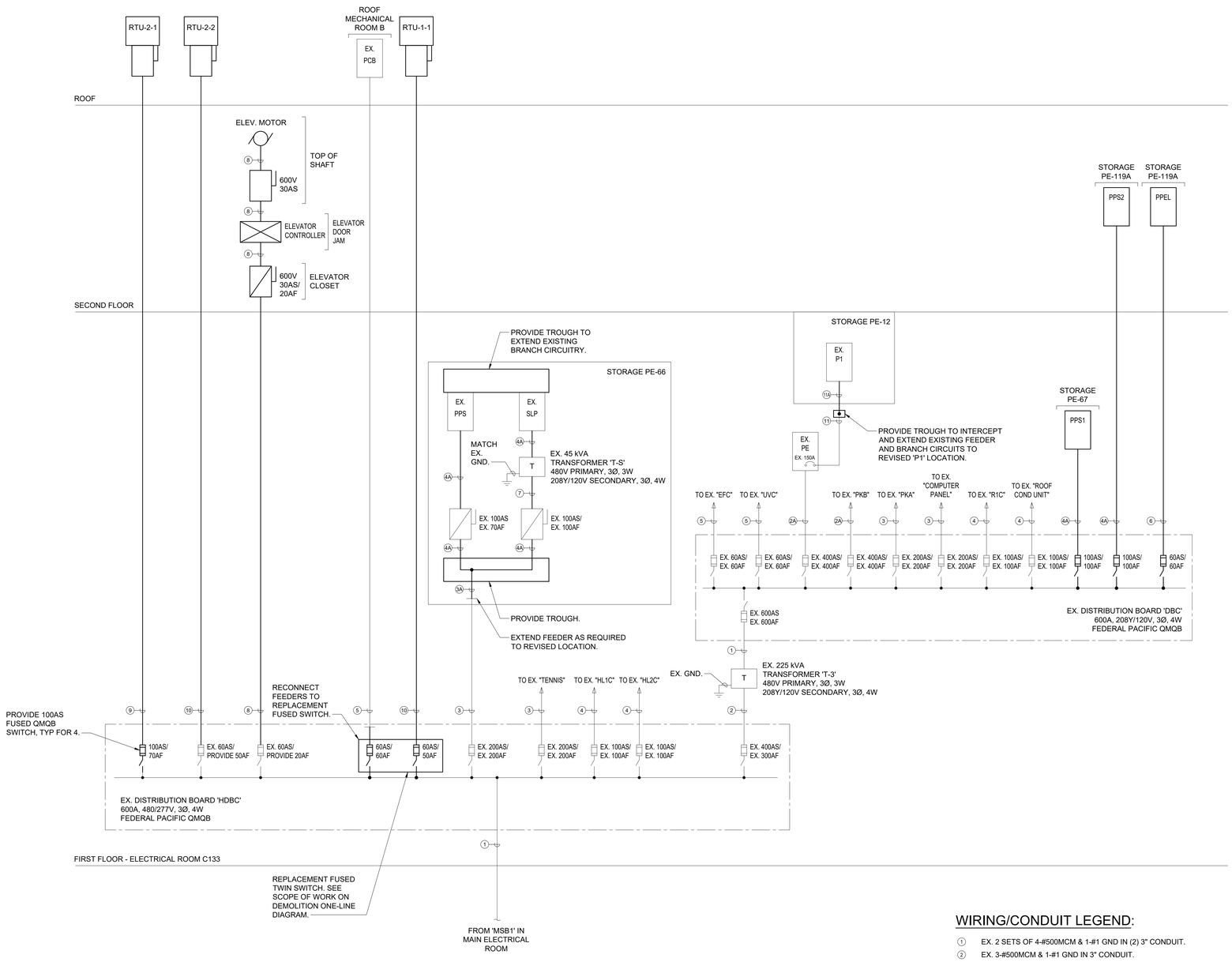

1 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NONE

NOTES:
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- (1) EX. 2 SETS OF 4-#500MCM & 1-#1 GND IN (2) 3" CONDUIT.
- (2) EX. 3-#500MCM & 1-#1 GND IN 3" CONDUIT.
- (2A) EX. 4-#500MCM & 1-#1 GND IN 3" CONDUIT.
- (3) EX. 4-#3/0 & 1-#6 GND IN 2" CONDUIT.
- (3A) 4-#3/0 & 1-#6 GND IN 2" CONDUIT.
- (4) EX. 4-#2 & 1-#8 GND IN 1-1/4" CONDUIT.
- (4A) 4-#2 & 1-#8 GND IN 1-1/4" CONDUIT.
- (5) EX. 4-#4 & 1-#10 GND IN 1" CONDUIT.
- (6) 4-#4 & 1-#10 GND IN 1-1/4" CONDUIT.
- (7) EX. 3-#6 & EX. GND IN 1" CONDUIT.
- (8) 3-#10 & 1-#10 GND IN 3/4" CONDUIT.
- (9) 3-#4 & 1-#8 GND IN 1" CONDUIT.
- (10) 3-#6 & 1-#10 GND IN 3/4" CONDUIT.
- (11) EX. 4-#2/0 & 1-#4 GND IN 2" CONDUIT, VIF.
- (11A) 4-#2/0 & 1-#4 GND IN 2" CONDUIT.

H2M architects + engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS:

OLA consulting engineers
100 Summit Lake Drive
Suite 102
Valhalla, NY 10595
914-747-2800
olace.com

MARK	DATE	DESCRIPTION
1	06/24/2026	ISSUED FOR BID

STATE OF NEW YORK · JOHN TORRE · 071678 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
J. JIMENEZ	J. JIMENEZ	D. SMITH M. LILLIS	D. SMITH M. LILLIS

PROJECT No:	DATE:	SCALE:
NH2M0009.00	JANUARY 2026	AS SHOWN

CLIENT

Harrison Central School District

Fitness Center Addition at Harrison High School

EQUITY · ACCESS · HARRISON CENTRAL SCHOOL DISTRICT · RIGOR · ADAPTABILITY

255 Union Ave, Harrison, NY 10528

SED NO.: 66-05-01-06-0-011-048

CONTRACT

CONTRACT E ELECTRICAL WORK

STATUS

FINAL BID DOCUMENTS

SHEET TITLE

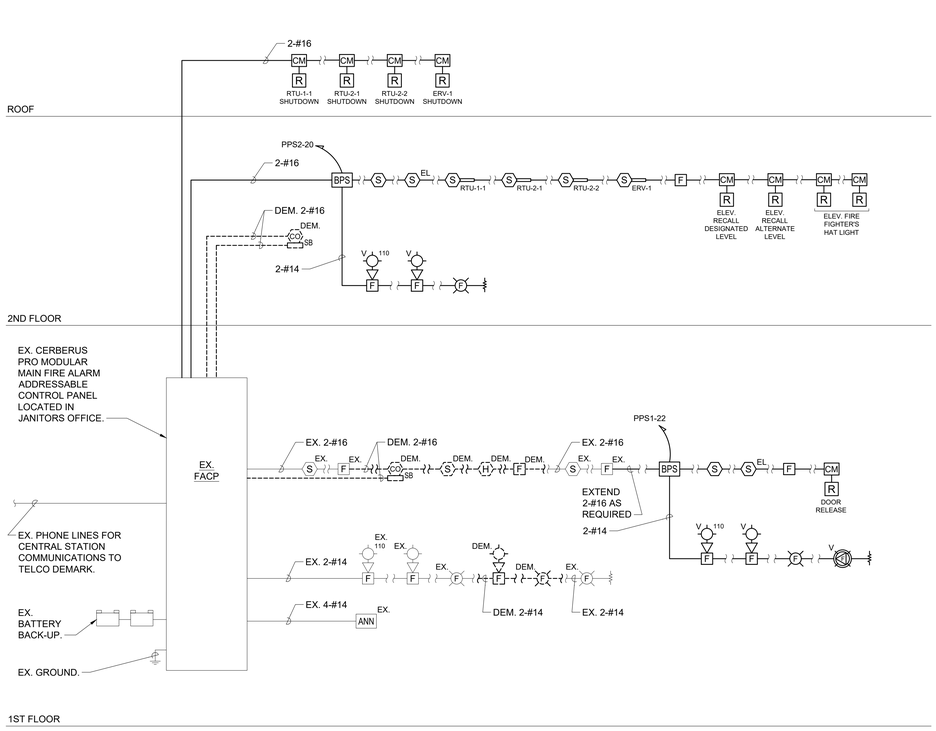
ELECTRICAL ONE-LINE DIAGRAM

DRAWING No.

E 502.00

RISER NOTES:

1. THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
2. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
3. QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
4. PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT NEW DEVICES TO EXISTING SYSTEM.
5. PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
6. PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TEN (10) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE ADDITIONAL FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
7. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
8. CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL BE MOUNTED ON SOUNDER BASES WHICH PROVIDE LOCAL ALARM ONLY IN A TEMPORAL 4 PATTERN OR CONSTANT TONE.
9. ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
10. DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
11. PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
12. CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.
13. CONTROL MODULES USED TO INITIATE EMERGENCY CONTROL FUNCTIONS THAT DO NOT FAIL IN A SAFE POSITION SHALL BE LOCATED WITHIN 3 FEET OF THE COMPONENT CONTROLLING THE EMERGENCY CONTROL FUNCTION PER NFPA 72. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL MODULES CONNECTED TO FAN MOTOR CONTROLLERS, ELEVATOR CONTROLLERS, ETC.
14. BATTERY BACKUP FOR FACP SHALL PROVIDE A MINIMUM OF 24 HOURS OF STAND BY POWER FOLLOWED BY 45 MINUTES OF ALARM.
15. ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC SHALL BE PAINTED "FIRE DEPARTMENT RED".



1 FIRE ALARM RISER DIAGRAM
SCALE: NONE

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255 Union Ave, Harrison, NY 10528

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SHEET TITLE

FIRE ALARM RISER DIAGRAM

DRAWING No.

E 503.00

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING

PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. OCCUPANT SENSOR CONTROLS

WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

A. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
B. FOR PROJECTS WITH SEVEN OF FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
C. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE BUILDING OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
i. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
ii. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
iii. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
iv. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
v. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

2. TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

A. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
B. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
C. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
D. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
E. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
F. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
ii. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
G. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i. NONEXEMPT LIGHTING TURNS OFF.
ii. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.

3. DAYLIGHT RESPONSIVE CONTROLS

WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:

A. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
B. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
C. THE CALIBRATION ADJUSTMENT EQUIPMENT IS LOCATED FOR READILY ACCESS ONLY BY AUTHORIZED PERSONNEL.

II. DOCUMENTATION REQUIREMENTS

THE DOCUMENTS DESCRIBED IN THIS SECTION SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 60 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

A. DRAWINGS:
i. AS-BUILT CONSTRUCTION DOCUMENTS, SHOWING THE LOCATION AND CATALOG NUMBER OF EACH PIECE OF EQUIPMENT.
B. MANUALS: AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
i. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
ii. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SET POINTS.
iii. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
iv. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
v. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
C. REPORT: A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING.
i. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
ii. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	LUMENS	REMARKS
A	ILP LIGHTING	VOLA24-43L-U-40-DIM1 -EM7	29 W LED	UNV	RECESSED	4,323 LM	2'X4' TROFFER LED LIGHTING FIXTURE. PROVIDE EMERGENCY BATTERY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
B	SIGNIFY LIGHTING	29-0-1-L-940-22-QN-08-D-E-1-B-NN-A1-24	25 W LED	UNV	SUSPENDED	4,400 LM	8' LINEAR SUSPENDED LED LIGHTING FIXTURE. PROVIDE EMERGENCY BATTERY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
C	MERCURY ARCHITECTURAL LIGHTING	MLS3-DISQ-36-4000-4000 -935K-ASO-BW-1%-1C-U	62 W LED	UNV	SUSPENDED	4,000 LM	3' X 3' SQUARE BATWING-TYPE LED LIGHTING FIXTURE.
D	ILP LIGHTING	VOLA14-41L-U-40-DIM1 -EM7	29 W LED	UNV	RECESSED	3,804 LM	1'X4' TROFFER LED LIGHTING FIXTURE. PROVIDE EMERGENCY BATTERY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
E	ILP LIGHTING	CV4-3L-U-40-FRAL-EM7	22 W LED	UNV	SURFACE	3,373 LM	4' LINEAR LED LIGHTING FIXTURE. COORDINATE COLOR WITH ARCHITECT. PROVIDE EMERGENCY BATTERY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
F	LITHONIA LIGHTING	BLWP2-20L-ADP-LP835	17 W LED	UNV	SURFACE	3,804 LM	2' LINEAR LED LIGHTING FIXTURE FOR ELEVATOR SHAFT.
G	ILP LIGHTING	WPCS-4L-U-40-T4-EMCT14-PCU	31 W LED	UNV	SURFACE	4,261 LM	OUTDOOR RATED LED LIGHTING FIXTURE. PROVIDE EMERGENCY BATTERY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
	LITHONIA LIGHTING	EDG-1-RMR-EL-SD	3 W LED	UNV	SURFACE	-	EXIT SIGN WITH MIRRORED BACK AND 6" RED LETTERS. COORDINATE MOUNTING IN FIELD.
	LITHONIA LIGHTING	LHQM-LED-R-M6	4.3W LED	UNV	SURFACE	-	COMBINATION EXIT SIGN/ EMERGENCY FIXTURE WITH 6" RED LETTERS.
	LITHONIA LIGHTING	EU2C-M6	3.6W LED	120V	SURFACE	-	EMERGENCY WALL MOUNTED LED LIGHT FIXTURE WITH 90 MINUTES OF BATTERY BACKUP TIME.

NOTES:
1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE AND SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

ELECTRICAL PANEL PPEL

MAIN RATING: 100A MAIN C.B.: 60A KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - ELEVATOR SHAFT	20	1	1	25	SUMP PUMP	2
3	REC - ELEVATOR SHAFT GFI	20	1	"	"	-	4
5	ELEVATOR CAB LIGHT DISCONNECT	20	1	"	"	-	6
7	-	-	-	-	-	-	8
9	-	-	-	-	-	-	10
11	-	-	-	-	-	-	12
13	-	-	-	-	-	-	14
15	-	-	-	-	-	-	16
17	-	-	-	-	-	-	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. PROVIDE WITH LOCKABLE COVER.

ELECTRICAL PANEL PPS1

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - VESTIBULE PE-105/PE-105A	20	1	1	20	LTG - TEAM RM/STOR/OFFICE/TOIL	2
3	LTG - CORRIDOR C-75F	20	1	1	20	LTG - BOYS LOCKER/STOR/TOILET	4
5	LTG - OFFICE/CONF/TOILET/STOR	20	1	1	20	LTG - CORRIDOR/VESTIBULE	6
7	LTG - STAIRS	20	1	1	20	REC - STORAGE/TOILET/VESTIBULE	8
9	LTG - STAIRS	20	1	1	20	REC - STORAGE/TOILET/VESTIBULE	10
11	REC - BOYS LOCKER ROOM/STORAGE	20	1	1	20	REC - OFFICE PE-14	12
13	REC - BOYS TEAM ROOM/CORRIDOR	20	1	1	20	VAV UNITS	14
15	REC - CONFERENCE ROOM PE-08	20	1	1	20	HVAC CONTROL PANEL	16
17	REC - CONFERENCE ROOM FLOOR	20	1	1	20	LTG - VESTIBULE PE-105/PE-105A	18
19	REC - CONFERENCE ROOM PE-08	20	1	1	20	LTG - OUTDOOR	20
21	REC - WATER FOUNTAIN	20	1	1	20LK	BOOSTER POWER SUPPLY	22
23	REC - WATER FOUNTAIN	20	1	-	-	-	24
25	-	-	-	-	-	-	26
27	-	-	-	-	-	-	28
29	-	-	-	-	-	-	30
31	-	-	-	-	-	-	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. PROVIDE WITH LOCKABLE COVER.

ELECTRICAL PANEL PPS2

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - FITNESS CENTER	20	1	1	20	REC - MULTI-PURPOSE/STORAGE	2
3	LTG - MULTI-PURPOSE/STORAGE	20	1	1	20	REC - FITNESS CENTER	4
5	REC - FITNESS CENTER	20	1	1	20	REC - FITNESS CENTER	6
7	CUH-1	20	1	1	20	REC - FITNESS CENTER	8
9	HP-1 & FC-1	25	2	1	20	REC - FITNESS CENTER	10
11							12
13	REC - ROOF WP GFI	20	1	3	25	ERV-1	14
15	BMS CONTROL PANEL	20	1				16
17	REC - WATER FOUNTAIN GFI	20	1	1	20	REC - ROOF WP GFI	18
19	-	"	"	1	20LK	BOOSTER POWER SUPPLY	20
21	-	"	"	1	20	HVAC CONTROL PANEL	22
23	-	-	-	-	-	-	24
25	-	"	"	"	-	-	26
27	-	-	-	-	-	-	28
29	-	-	-	-	-	-	30
31	-	-	-	"	"	-	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. PROVIDE WITH LOCKABLE COVER.

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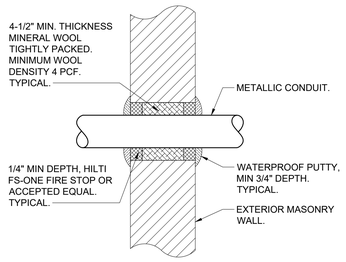
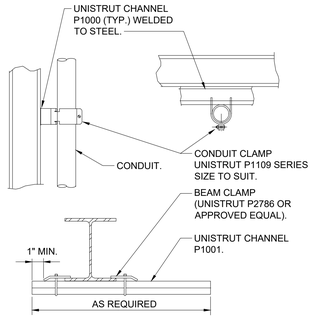
ELECTRICAL SCHEDULES

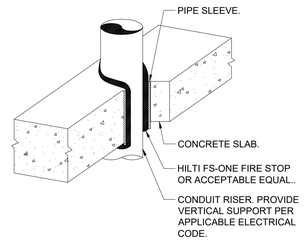
DRAWING No.
E 601.00



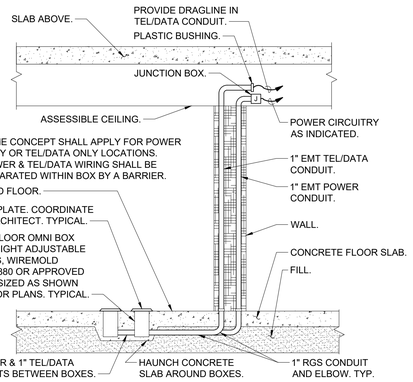
9 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



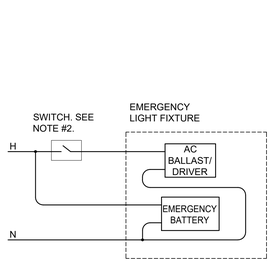
6 CONDUIT SUPPORTED FROM STRUCTURAL STEEL DETAIL
SCALE: NONE



3 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE

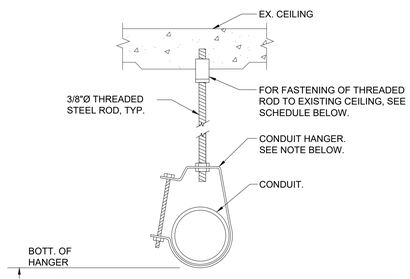


11 FLOOR BOX INSTALLATION DETAIL
SCALE: NONE



NOTES:
1. THE CONNECTION TO THE LAMPS IS NOT SHOWN - FOLLOW MANUFACTURER WIRING DIAGRAMS.
2. "SWITCH" REPRESENTS A SINGLE POLE SWITCH, A SET OF CONTACTS, A COMBINATION OF 3 WAY AND 4 WAY SWITCHES, ETC. SEE DRAWINGS FOR ACTUAL SWITCH CONFIGURATION.

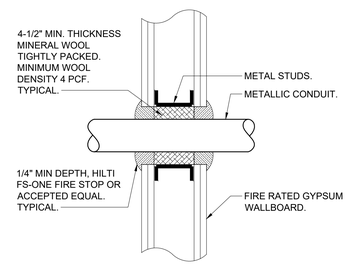
8 SWITCHED EMERGENCY FIXTURE WIRING DIAGRAM
SCALE: NONE



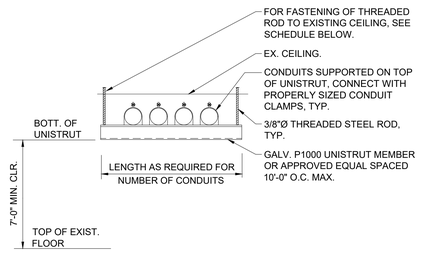
CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

NOTE: CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1". GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

5 SINGLE CONDUIT HANGER DETAIL
SCALE: NONE

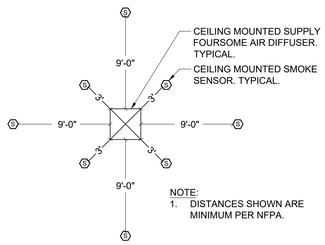


2 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

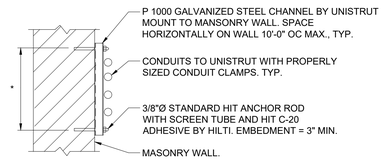


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

10 TRAPESE SUPPORT DETAIL
SCALE: NONE

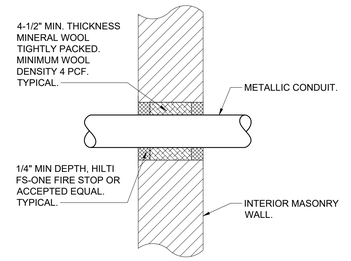


7 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
SCALE: NONE



* LENGTH AS REQUIRED FOR NUMBER OF CONDUITS

4 TYPICAL CONDUIT SUPPORT ON MASONRY DETAIL
SCALE: NONE



1 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
J. JIMENEZ	J. JIMENEZ	D. SMITH M. LILLIS	D. SMITH M. LILLIS

PROJECT No:	DATE:	SCALE:
NH2M0009.00	JANUARY 2026	AS SHOWN

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