

LIST OF DRAWINGS

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HZ103	ROOF ABATEMENT PLAN
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A704 A705	LEARNING STAIRS (ADD ALT) TYPICAL STAIR DETAILS
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P102 P201	NORTH WING UPPER LEVEL & ROOF DEMOLITION PLANS NORTH WING BELOW SLAB & LOWER LEVEL PLANS
P202 P601	NORTH WING UPPER LEVEL & ROOF PLANS DETAILS
P602 P603	DOMESTIC WATER RISER DIAGRAM SANITARY RISER DIAGRAM
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M202 M601	NORTH WING ROOF PLAN DETAILS
M602 M603	DETAILS DETAILS
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E101 E102	NORTH WING LOWER LEVEL & UPPER LEVEL DEMOLITION PLANS
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E203	EAST WING PARTIAL POWER PLAN
E301 E401	NORTH WING LOWER LEVEL UPPER LEVEL LIGHTING PLAN NORTH WING LOWER LEVEL & UPPER LEVEL DATA, AV & SECURITY
E501	PLANS NORTH WING ROOF LIGHTING PROTECTION PLAN
E601 E602	DETAILS DETAILS
E701 E702	EQUIPMENT SCHEDULES EQUIPMENT SCHEDULES
FIRE ALARM	NORTH WING LOWER LEVEL & UPPER LEVEL PLANS
FA202 FA601	NORTH WING ROOF PLAN DETAILS
Grand total: 94	

ARDEN HILL -MAIN BUILDING **ALTERATIONS TO NORTH WING** NY. S.E.D. # 44-90-00-00-0-035-009 KG&D Project No. 2023-1011 DESIGN TEAM

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WAPPINGERSFALLS, NY 12590

MEANS OF EGRESS

EGRESS INFORMATION:

ROOM USE DESIGNATIONS ROOM SQUARE FOOTAGE ROOM OCCUPANCY LOADS ASSEMBLY SPACE EXIT WIDTH CALCS AREA OF REFUGE **RESCUE WINDOWS**

EXIT TRAVEL DISTANCE

NYS BC TABLE 1017.2 200' MAX UNSPRINKLERED 250' MAX SPRINKLERED

SED MANUAL OF PLANNING STANDARDS 150' TO EXTERIOR DOOR FROM CORRIDOR 120' TO STAIR ENCLOSURE FROM CORRIDOR 50' TO EXIT FROM ALL ROOMS 1500 SF & UNDER 75' TO SEPARATE SMOKE ZONE IN OPEN PLANNED AREAS NO DEAD-END CORRIDORS (<1.5 x WIDTH, MAX 20')

OCCUPANCY LOADS: CLASSROOMS SHOPS & OTHER VOCATIONAL ROOMS OFFICE AREAS

KITCHEN AREA STORAGE/MECHANICAL

EXIT WIDTH STAIR WIDTH

OTHER EGRESS COMPONENTS STAIR WIDTH

OTHER EGRESS COMPONENTS

CORRIDORS

WIDTH (NY SED): MAIN CORRIDOR:

SECONDARY:

PASSAGEWAY:

ABBREVIATIONS					
ACM ACP ACPL ACT ADJ	ASBESTOS CONTAINING MATERIAL ALUMINUM COMPOSITE PANEL ACOUSTIC PANEL ACOUSTIC CEILING TILE ADJUSTABLE	GALV GFB GFRG GL GWB	GALVANIZED GROUND FACE BLOCK GLASS FIBER REINFORCEI GLASS GYPSUM WALLBOARD		
AC AESS AFF AHAP AL, ALUM AMP APPROX	AIR CONDITIONING ARCHITECTURAL EXPOSED STRUCT STEEL ABOVE FINISH FLOOR AS HIGH AS POSSIBLE ALUMINUM ACRYLIC MODIFIED POLYESTER APPROXIMATE	H HDW, HDWE HDWD HD HDR HVAC HR	HARDWOOD HEAD HEADER HEATING, VENTILATING, AI HOUR		
BEPO BTW BLKG BOT, BOTT BLDG BL	BROADCAST EPOXY BETWEEN BLOCKING BOTTOM BUILDING BUILDING LINE	HT HM HMFR HORIZ HC	HEIGHT HOLLOW METAL HOLLOW METAL FRAME HORIZONTAL HANDICAP		
BM CAB CB CI CFMF CLG, CLNG	BEAM CABINET CEMENT BOARD CAST IRON COLD FORMED METAL FRAMING CEILING	IF IN INCL INFO INSUL INT	INSIDE FACE INCH/INCHES INCLUDE/INCLUSIVE INFORMATION INSULATION INTERIOR		
CL CMU COL	CENTER LINE, CLASSROOM CONCRETE MASONRY UNIT COLUMN	JC JT	JANITOR'S CLOSET JOINT		
CONC CONF CONST	CONCRETE CONFERENCE CONSTRUCTION	KPL KD KO	KICK PLATE KNOCKDOWN KNOCKOUT		
CONTR CONT COORD CPT CR CT CTB	CONTRACTOR CONTINUOUS COORDINATE CARPET CARD READER CERAMIC TILE CERAMIC TILE BASE	LAM LAMGL LT LTG LWC LIN LMF	LAMINATED LAMINATED GLASS LIGHT LIGHTING LIGHT WEIGHT CONCRETE LINOLEUM LIGHT METAL FRAMING		
DA DET DIM DR DN DWG	DEVICE ARRANGEMENT DETAIL DRINKING FOUNTAIN DIMENSION DOOR DOWN DRAWING	MAINT MAX MBL MFG MSNRY MO	MAINTAIN/MAINTENANCE MAXIMUM MARBLE MANUFACTURER MASONRY MASONRY OPENING		
EE EIFS EJ ELEC EL/ELEV ENCL EOD EOS EPO EPS EQ	EACH END EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT ELECTRIC/ELECTRICAL ELEVATION ENCLOSURE EDGE OF DECK EDGE OF SLAB EPOXY EDGE OF POUR STOP EQUAL	MATL MECH MT MCP MCB MS MLWK MIN MISC MLDG MTG	MATERIAL MECHANICAL MONITOR METAL METAL COMPOSITE PANEL METAL CORNER BEAD METAL STUD MILL WORK MINIMUM MISCELLANEOUS MOLDING MOUNTING		
ES EXIST ETR ETRE EXP JT	EACH SIDE EXISTING EXISTING TO REMAIN EXISTING TO BE RELOCATED EXPANSION JOINT	NIC NTS NO	NOT IN CONTRACT NOT TO SCALE NUMBER		
EXF 51 EXT, EXTR EW FAB FTF FIN FA FD	EXPANSION JOINT EXTERIOR EACH WAY FABRIC FACE TO FACE FINISHED FIRE ALARM FLOOR DRAIN	OC OPNG OPP OH OTS OUT OD OF	ON CENTER OPENING OPPOSITE OPPOSITE HAND OPEN TO STRUCTURE OUTLET OUTSIDE DIAMETER OUTSIDE FACE		
FDMPR FE FEC FF FHC FHVC FR FRD FRD FRD FRTD FIX FL/FLR FLUOR FL MTD FT FDN FRITZ	FIRE DAMPER FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FACTORY FINISHED FIRE HOSE CABINET FIRE HOSE VALVE CABINET FIRE RATED FRENCH DRAIN FIBERGLASS REINFORCED POLYESTER FIRE RETARDANT FIXTURE FLOOR FLUORESCENT FLUSH MOUNTED FOOT/FEET FOUNDATION FRITZ FLOOR (RTT) TILE	P, PTD PT PTB PR PNL PTN PL PLAM PLMB PLYWD PTWD	PAINTED PORCELAIN TILE PORCELAIN TILE BASE PAIR PANEL PARTITION PLATE / PROPERTY LINE PLASTIC LAMINATE PLUMBING PLYWOOD PRESERVATIVE TREATED		

SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATOR
SHEET TYPE DESIGNATOR
SEQUENCE NUMBER

A101	

DISCIPLINE DESIGNATORS GENERAL CC CODE COMPLIANCE PH PHASING HM HAZARDOUS MATERIAL ABATEMENT CIVIL LANDSCAPE STRUCTURAL ARCHITECTURAL FIRE PROTECTION

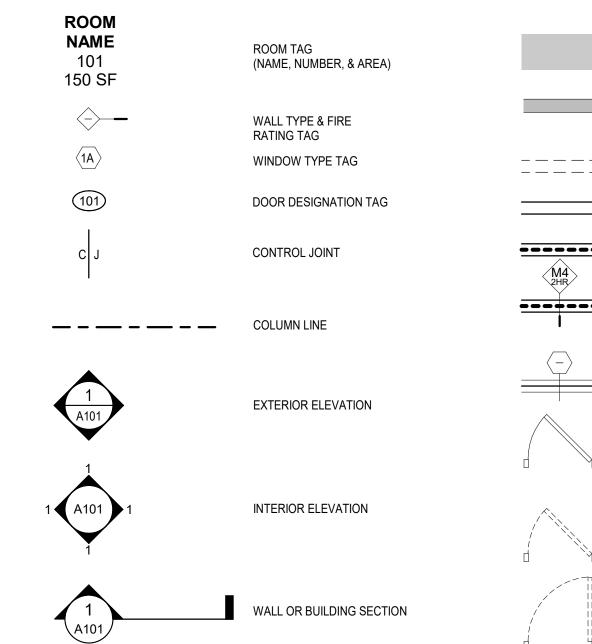
PLUMBING

E ELECTRICAL

М

MECHANICAL

SYMBOLS LEGEND



MATERIAL LEGEND

	CMU WALL	
	CMU WALL	
	GWB WALL	
	MASONRY VENEER	
	GWB - "TYPE X" UNO (SEE SPECS)	
	EXPOSED TO WEATHER OR MOISTURE)	
	WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)	
\bigotimes ((((CAULK w/ BACKER ROD	//

NYS BC TABLE 1004.5 20 NET SF/PERSON 50 NET SF/PERSON 100 GROSS SF/PERSON 200 GROSS SF/PERSON 300 GROSS SF/PERSON

<u>DWG SHOWN</u>

CC002

CC002

CC002, FLOOR PLANS

CC002, FLOOR PLANS

N/A (NYS BC 1009.3.3 EXCEPTION 2))

FLOOR PLANS & ELEVATIONS

NYS BC SECTION 1005.1 .3"/OCCUPANT UNSPRINKLERED .2"/OCCUPANT UNSPRINKLERED

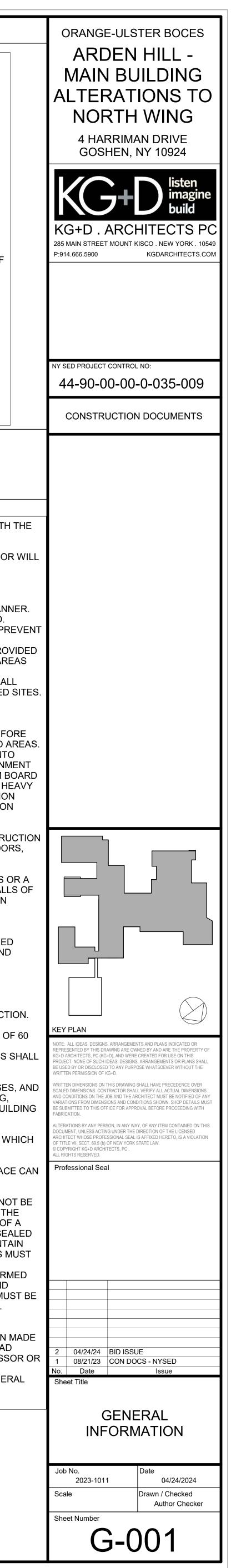
.2"/OCCUPANT SPRINKLERED .15"/OCCUPANT SPRINKLERED

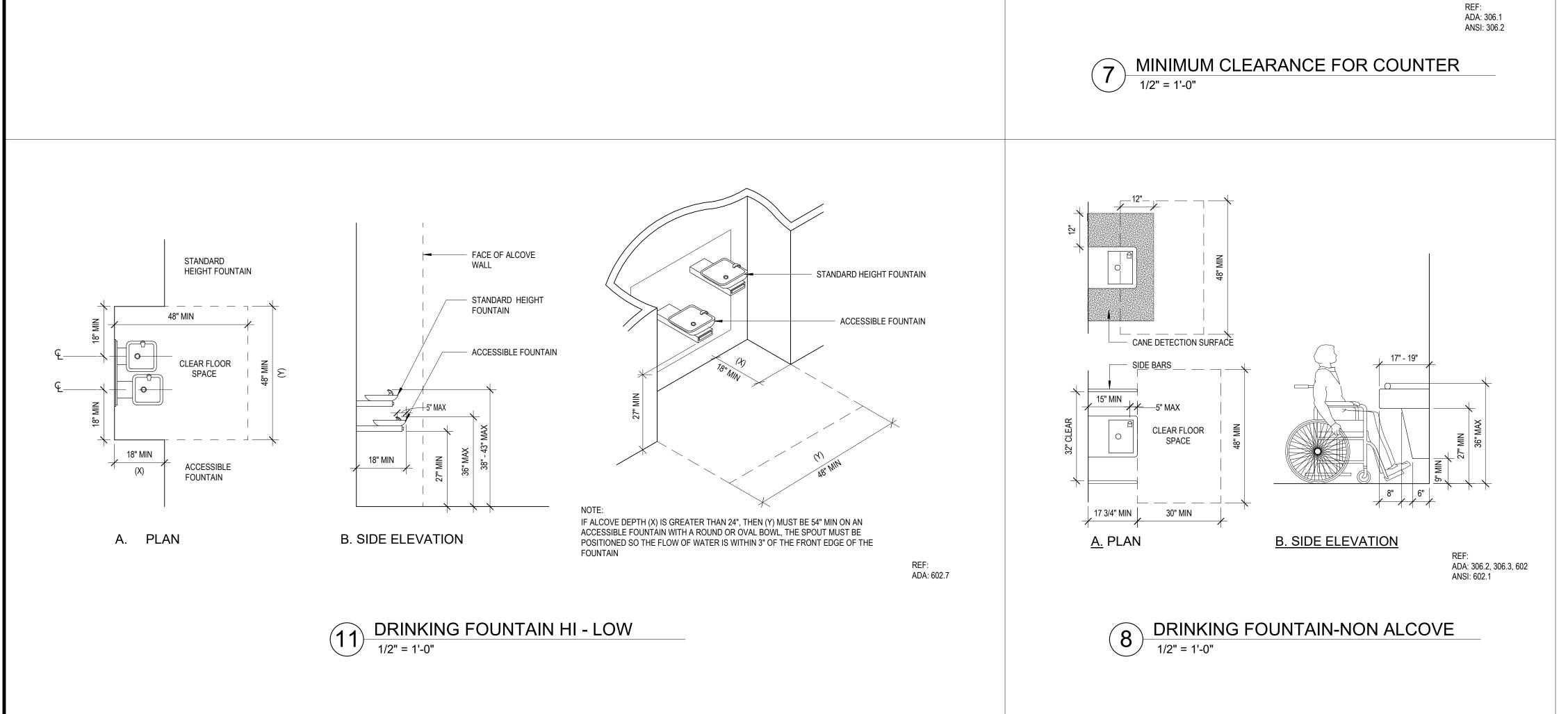
NYS BC TABLE 1020.1 NY SED S103-2 & S103-5

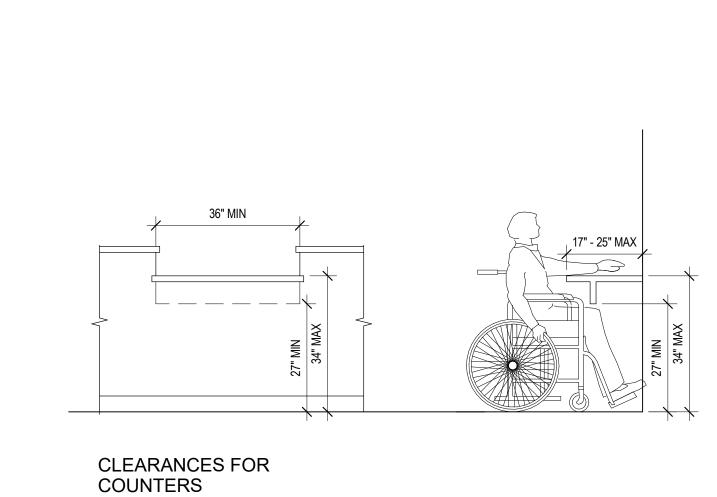
8'-0" MIN. (CLEAR)

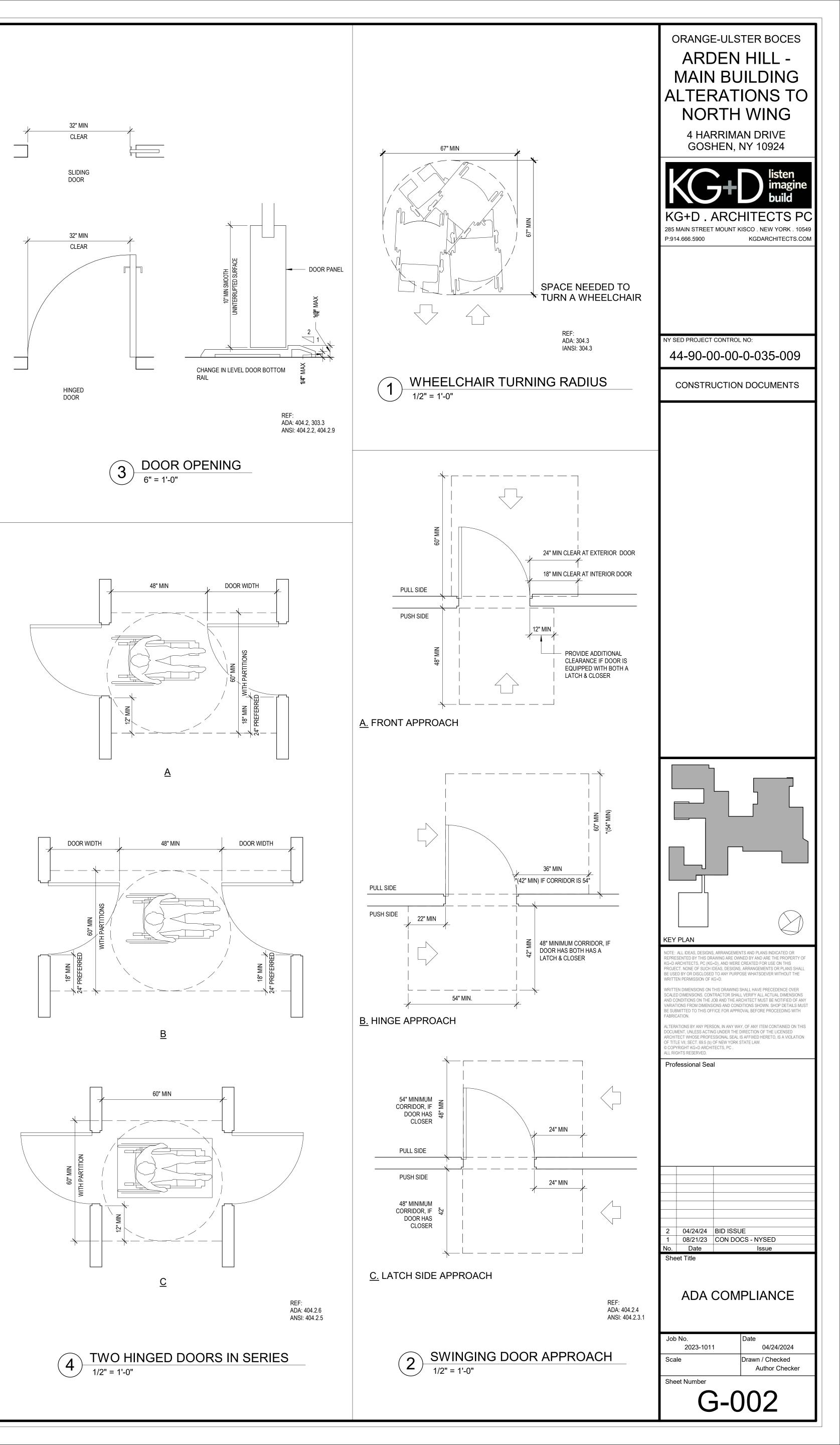
- [12" LOCKERS ÓN ONE SIDE = 9'-0" MIN]* [12" LOCKERS ON BOTH SIDES = 10'-0" MIN]*
- 6'-0" MIN. (CLEAR)
- [12" LOCKERS ON ONE SIDE = 7'-0" MIN]* [12" LOCKERS ON ONE SIDE = 8'-0" MIN]* 44["] MIN.
- *CORRIDOR LOCKER DOORS MAY NOT PROJECT INTO THE REQUIRED WIDTH

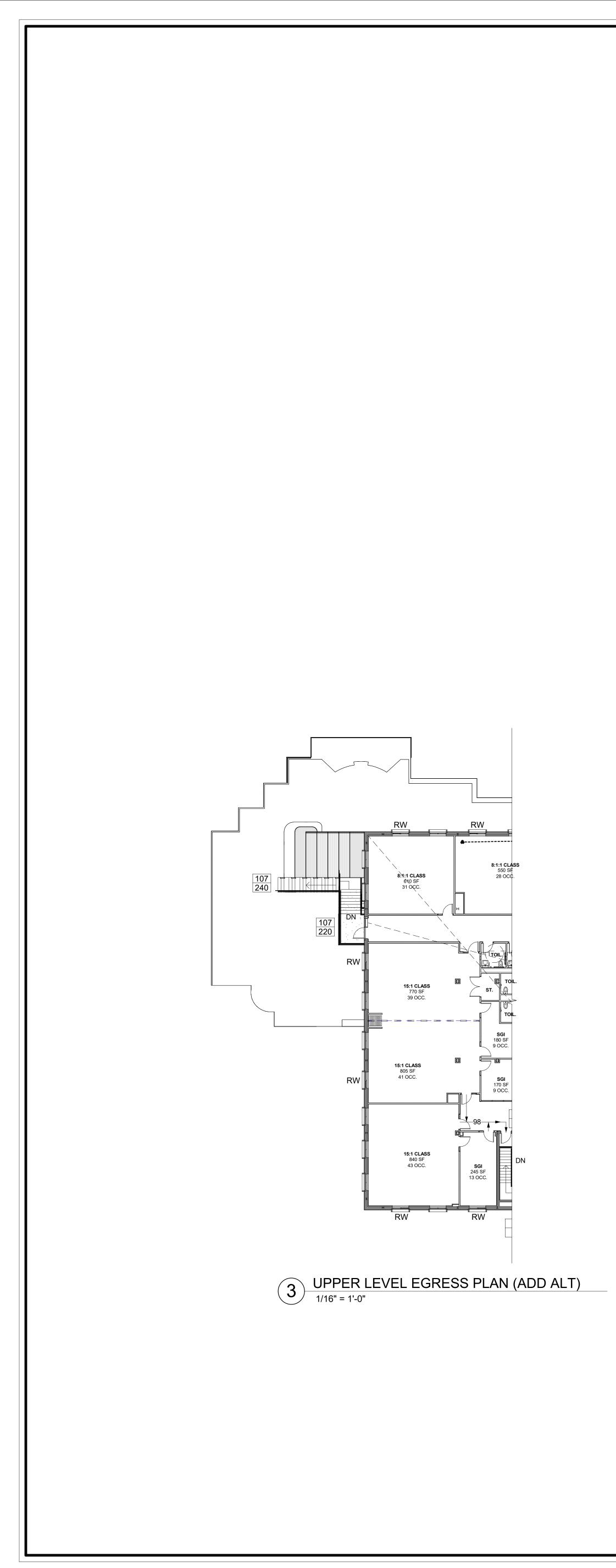
			PROJECT INFOR	
RCED GYPSUM	QT QTB	QUARRY TILE QUARRY TILE BASE	NYSED CONTROL NUMBER:	44-90-00-0-035-009
	QTY RCP	QUANTITY REFLECTED CEILING PLAN	DISTRICT NAME:	ORANGE - ULSTER BOCES 53 GIBSON RD.
G, AIR CONDITIONING	REFL REQD RB RTN RA REV	REFLECTED REQUIRED RUBBER BASE RETURN RETURN AIR REVISED/REVISION	BUILDING NAME:	GOSHEN, NY 10924 REGIONAL EDUCATION CENTER AT ARDEN HILL 4 HARRIMAN DRIVE GOSHEN, NY 10924
	RFI RO RT	REQUEST FOR INFORMATION ROUGH OPENING RUBBER TREAD/TILE	TYPE OF PROJECT:	ADDITIONS & ALTERATIONS
IE	RTB RTT RW	RUBBER TREAD BASE RESILIENT TERRAZZO TILE RESCUE WINDOW	PROJECT COMMENCEMENT:	SEE MILESTONE SCHEDULE (SPECIFICATION)
	S SCHED SECT	SAFETY GLAZING/SEE SPEC SCHEDULE/SCHEDULED SECTION	PROJECTED COMPLETION: APPLICABLE CODES:	SEE MILESTONE SCHEDULE (SPECIFICATION) 2020 NEW YORK STATE UNIFORM FIRE PREVENTION &
	SFB SH SIM SL	SPLIT FACE BLOCK SHELVING/SHELF/SHELVES SIMILAR SLATE	ATTEICABLE CODEC.	BUILDING CODE
	STC SPEC SQFT	SOUND TRANSMISSION CLASS SPECIFICATION SQUARE FOOT		2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
	ST STSTL STL STR SUSP	SAND, STAIN & SEAL STAINLESS STEEL STEEL STRUCTURAL/STRUCTURE SUSPENDED/SUSPENSION		2022 MANUAL OF PLANNING STANDARDS - THE UNIVERSITY OF THE STATE OF NEW YORK THE STATE EDUCATION DEPARTMENT
RETE	T TB TBD	TOP TACKBOARD TO BE DETERMINED		ANSI A117.1-09 ACCESSIBLE & USABLE BUILDINGS & FACILITIES
3	TERR TFF TMP GL	TERRAZZO TOP FINISHED FLOOR TEMPERED GLASS		NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
CE	THERMO T&B TO TOS TOSS	THERMOSTAT TOP AND BOTTOM TOP OF TOP OF STEEL TOP OF STRUCTURAL SLAB	WORK AREAS	ALTERATION LEVEL 2 NEW CONSTRUCTION EXISTING
	TOES TRT TYP	TOP OF EXISTING SLAB TERRAZZO RESILIENT TILE TYPICAL	UNIFORM SAFE	TY STANDARDS FOR
ANEL	UNFIN UNO, UON UR	UNFINISHED UNLESS NOTED OTHERWISE URINAL	SCHOOL CONST	
	UTIL VAT VCT	UTILITY VINYL ASBESTOS TILE VINYL COMPOSITE TILE	MAINTENANCE	PROJECTS
	VEN VERT VET	VENEER VERTICAL VINYL ENHANCED TILE		HE EXISTING SCHOOL BUILDING SHALL ALWAYS COMPLY WITH ESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.
	VIF VRS VT VWC	VERIFY IN FIELD VINYL REDUCER STRIP VINYL TILE VINYL WALL COVERING	ALL SCHOOL AREAS TO BE DIS	TURBED DURING RENOVATION OR DEMOLITION HAVE BEEN O
	WB WC	WHITEBOARD WATER CLOSET	BE TESTED FOR LEAD AND ASE GENERAL SAFETY AND SECURI	ITY STANDARDS FOR CONSTRUCTION PROJECTS:
	WF WGL W/ W/C	WATER FOUNTAIN WIRE GLASS WITH WHEEL CHAIR		N MATERIALS SHALL BE STORED IN A SAFE AND SECURE MAN CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
	W/O WOM WD	WITHOUT WALK OFF MAT WOOD	ČÓ GATES SHALL ALWA UNAUTHORIZED ENTRY.	AYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PF
<u>.</u>	WD BLKG WD DR WP WR	WOOD BLOCKING WOOD DOOR WATERPROOFING WARDROBE	FÓR ANY SIDEWALKS OR	RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PRO AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AR ND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
NE	WW YD	WINDOW WALL YARD		E REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT A ON AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED
FED WOOD	YCO ZCC ZCP	YARD CLEANOUT ZINC COATED COPPER ZINC COMPOSITE PANEL		ON AREAS FROM OCCUPIED SPACES:
	ZT	ZINC TILE SYSTEM	NOT OCCUPIED BY DISTRICT S PROVISIONS SHALL BE MADE T OCCUPIED PARTS OF THE BUIL BARRIERS MUST BE MADE TO F MUST BE USED IN EXIT WAYS O DUTY PLASTIC SHEETING MAY	TAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED A O PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INT DING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAIN PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM E OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. H BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATIO JSED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTIO
ARCHITECTURA 1 DEMOLI ⁻ 2 PLANS	L SHEET TYPE DI	ESIGNATOR	AREAS. (A) A SPECIFIC STAIRW WORKER USE DURING WO	/ELL AND/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRU ORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDO
4 ENLARG 5 FINISHES 6 REFLEC 7 VERTICA	ED PLANS & INTE		(B) LARGE AMOUNTS O SIMILAR SEALED SYSTEM	DESIGNATED FOR STUDENTS OR SCHOOL STAFF. OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES 1. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HAL HE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN
	DETAILS		OUTSIDE THE WALLS OF (C) ALL OCCUPIED PAR	
			DURING A CONSTRUCTIO EDUCATIONAL CAPABILIT	IN PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND TES AT ALL TIMES THAT CLASSES ARE IN SESSION. IG REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE
DENOTES E	XISTING AREA OF	THE BUILDING TO REMAIN	MAINTAINED.	
	GENERAL CONST	,	CONSTRUCTION AND MAINTEN	JATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCT ANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS C
DENOTES EX	XISTING WALL TO) REMAIN		SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES
) BE DEMOLISHED		ESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASE
	nr OR NON-RATED	JWALL		SURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUI
DENOTES W	/ALL TYPE & FIRE	RATING		ESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS W VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS,
				L COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE
DENOTES H	OLLOW METAL FI	RAME w/	LARGE AND SMALL ASBESTOS	ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NO
			TERM "BUILDING", AS REFEREN BUILDING THAT CAN BE COMPL	ING IS OCCUPIED". NOTE, IT IS OUR INTERPRETATION THAT T ICED IN THIS SECTION, MEANS A WING OR MAJOR SECTION O ETELY ISOLATED FROM THE REST OF THE BUILDING WITH SE
DENOTES EXI	ISTING DOOR TO	REMAIN (U.N.O)	EXITS THAT DO NOT PASS THR	CTION. THE ISOLATED PORTION OF THE BUILDING MUST CONT OUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS I ND SEALED AT THE ISOLATION BARRIER.
	ISTING DOOR ANI . SEE DOOR SCH	D OR FRAME TO BE IEDULE.	ON OCCUPIED BUILDINGS PROY COMPLETE ISOLATION OF VEN	OFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFOR VIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND TILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MU O THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL
DENOTES NEV	W DOOR AND OR	FRAME. SEE DOOR	SURFACES THAT WILL BE DIST AS TO THE PRESENCE OF LEAD	URBED BY RECONSTRUCTION MUST HAVE A DETERMINATION D. PROJECTS WHICH DISTURB SURFACES THAT CONTAIN LEAD
			SUPERVISOR WHICH DETAILS F PREPARATION, WORK METHOD	TIONS A PLAN PREPARED BY A CERTIFIED LEAD RISK ASSESS PROVISIONS FOR OCCUPANT PROTECTION, WORKSITE DS, CLEANING AND CLEARANCE TESTING WHICH ARE IN GENE
OR ROO	PROOFING MEN		ACCORDANCE WITH THE HUD C	,
FLASHIN				
POROUS		D BACKFILL (SEE SPEC)		
	JRBED SOIL			
	-PLACE CONCF SURFACE	RETE OR CAST STONE		

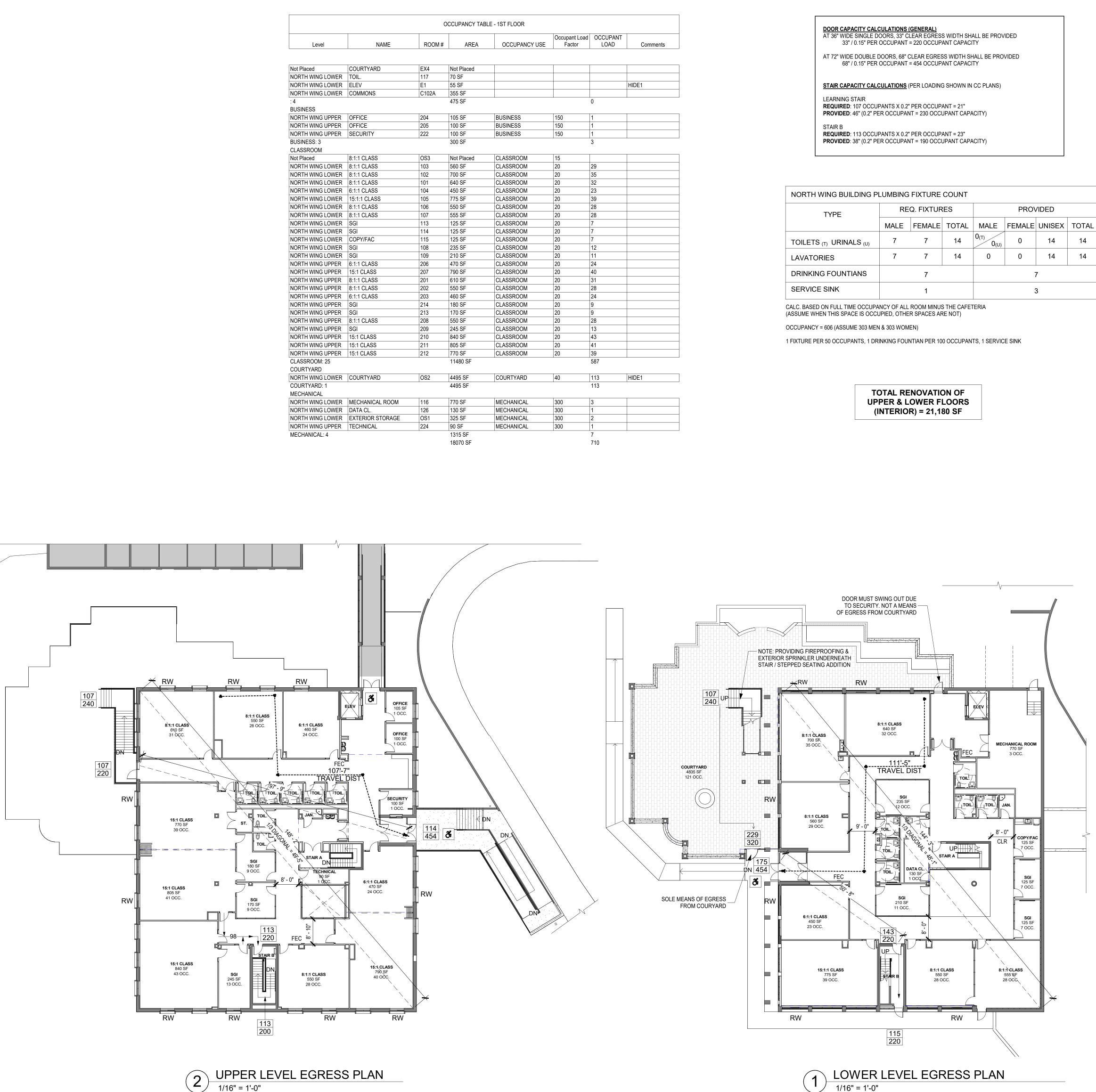










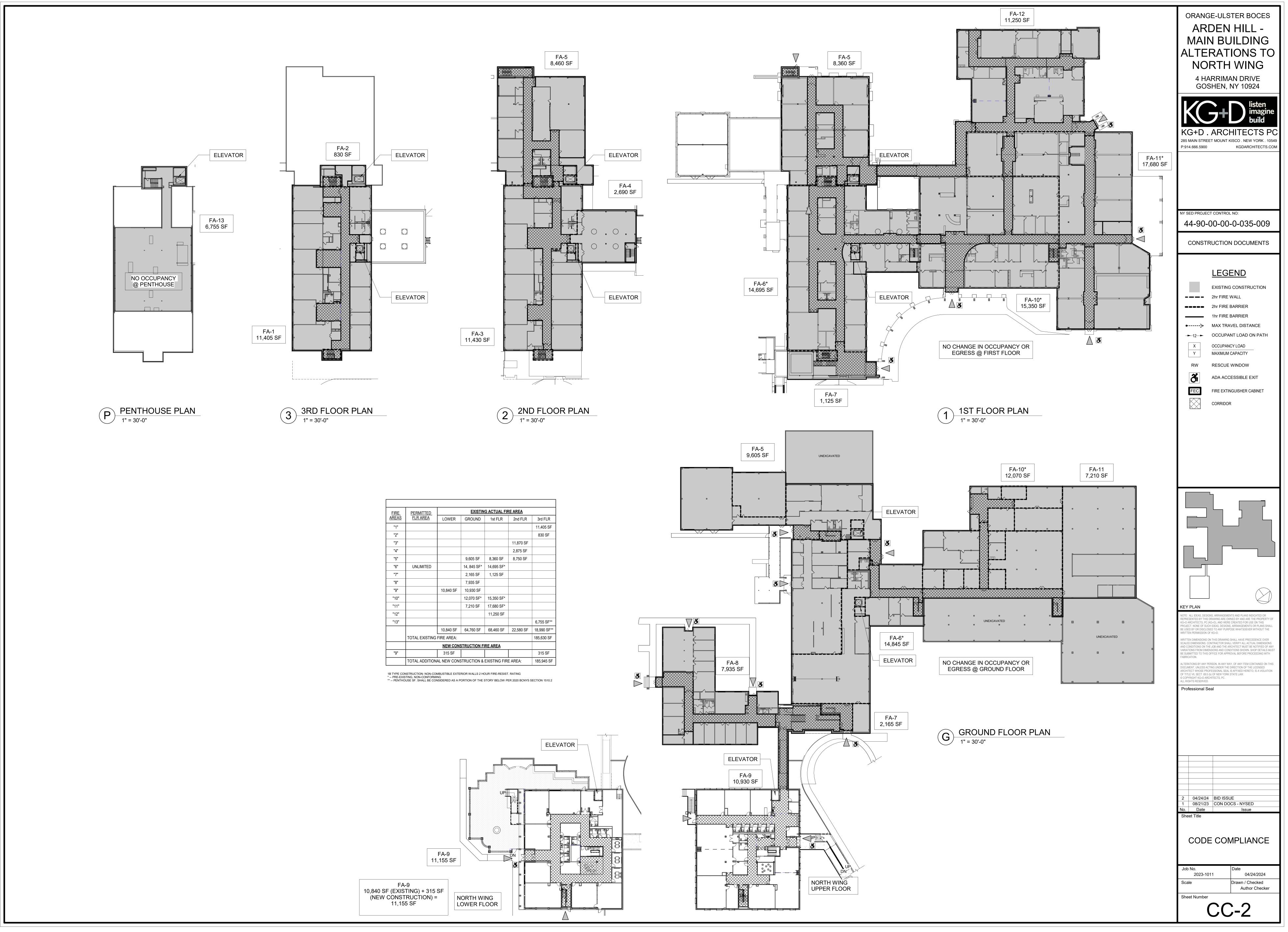


Level	NAME	ROOM #	AREA	OCCUPANCY
Not Placed	COURTYARD	EX4	Not Placed	
NORTH WING LOWER	TOIL.	117	70 SF	
NORTH WING LOWER	ELEV	E1	55 SF	
NORTH WING LOWER	COMMONS	C102A	355 SF	
:4			475 SF	
BUSINESS				
NORTH WING UPPER	OFFICE	204	105 SF	BUSINESS
NORTH WING UPPER	OFFICE	205	100 SF	BUSINESS
NORTH WING UPPER	SECURITY	222	100 SF	BUSINESS
BUSINESS: 3			300 SF	
CLASSROOM				
Not Placed	8:1:1 CLASS	OS3	Not Placed	CLASSROOM
NORTH WING LOWER	8:1:1 CLASS	103	560 SF	CLASSROOM
NORTH WING LOWER	8:1:1 CLASS	102	700 SF	CLASSROOM
NORTH WING LOWER	8:1:1 CLASS	101	640 SF	CLASSROOM
NORTH WING LOWER	6:1:1 CLASS	104	450 SF	CLASSROOM
NORTH WING LOWER	15:1:1 CLASS	105	775 SF	CLASSROOM
NORTH WING LOWER	8:1:1 CLASS	106	550 SF	CLASSROOM
NORTH WING LOWER	8:1:1 CLASS	107	555 SF	CLASSROOM
NORTH WING LOWER	SGI	113	125 SF	CLASSROOM
NORTH WING LOWER	SGI	114	125 SF	CLASSROOM
NORTH WING LOWER	COPY/FAC	115	125 SF	CLASSROOM
NORTH WING LOWER	SGI	108	235 SF	CLASSROOM
NORTH WING LOWER	SGI	109	210 SF	CLASSROOM
NORTH WING UPPER	6:1:1 CLASS	206	470 SF	CLASSROOM
NORTH WING UPPER	15:1 CLASS	207	790 SF	CLASSROOM
NORTH WING UPPER	8:1:1 CLASS	201	610 SF	CLASSROOM
NORTH WING UPPER	8:1:1 CLASS	202	550 SF	CLASSROOM
NORTH WING UPPER	6:1:1 CLASS	203	460 SF	CLASSROOM
NORTH WING UPPER	SGI	214	180 SF	CLASSROOM
NORTH WING UPPER	SGI	213	170 SF	CLASSROOM
NORTH WING UPPER	8:1:1 CLASS	208	550 SF	CLASSROOM
NORTH WING UPPER	SGI	209	245 SF	CLASSROOM
NORTH WING UPPER	15:1 CLASS	210	840 SF	CLASSROOM
NORTH WING UPPER	15:1 CLASS	211	805 SF	CLASSROOM
NORTH WING UPPER	15:1 CLASS	212	770 SF	CLASSROOM
CLASSROOM: 25			11480 SF	
COURTYARD				
NORTH WING LOWER	COURTYARD	OS2	4495 SF	COURTYARD
COURTYARD: 1			4495 SF	
MECHANICAL				
NORTH WING LOWER	MECHANICAL ROOM	116	770 SF	MECHANICAL
NORTH WING LOWER	DATA CL.	126	130 SF	MECHANICAL
NORTH WING LOWER	EXTERIOR STORAGE	OS1	325 SF	MECHANICAL
NORTH WING UPPER	TECHNICAL	224	90 SF	MECHANICAL
MECHANICAL: 4	-		1315 SF	

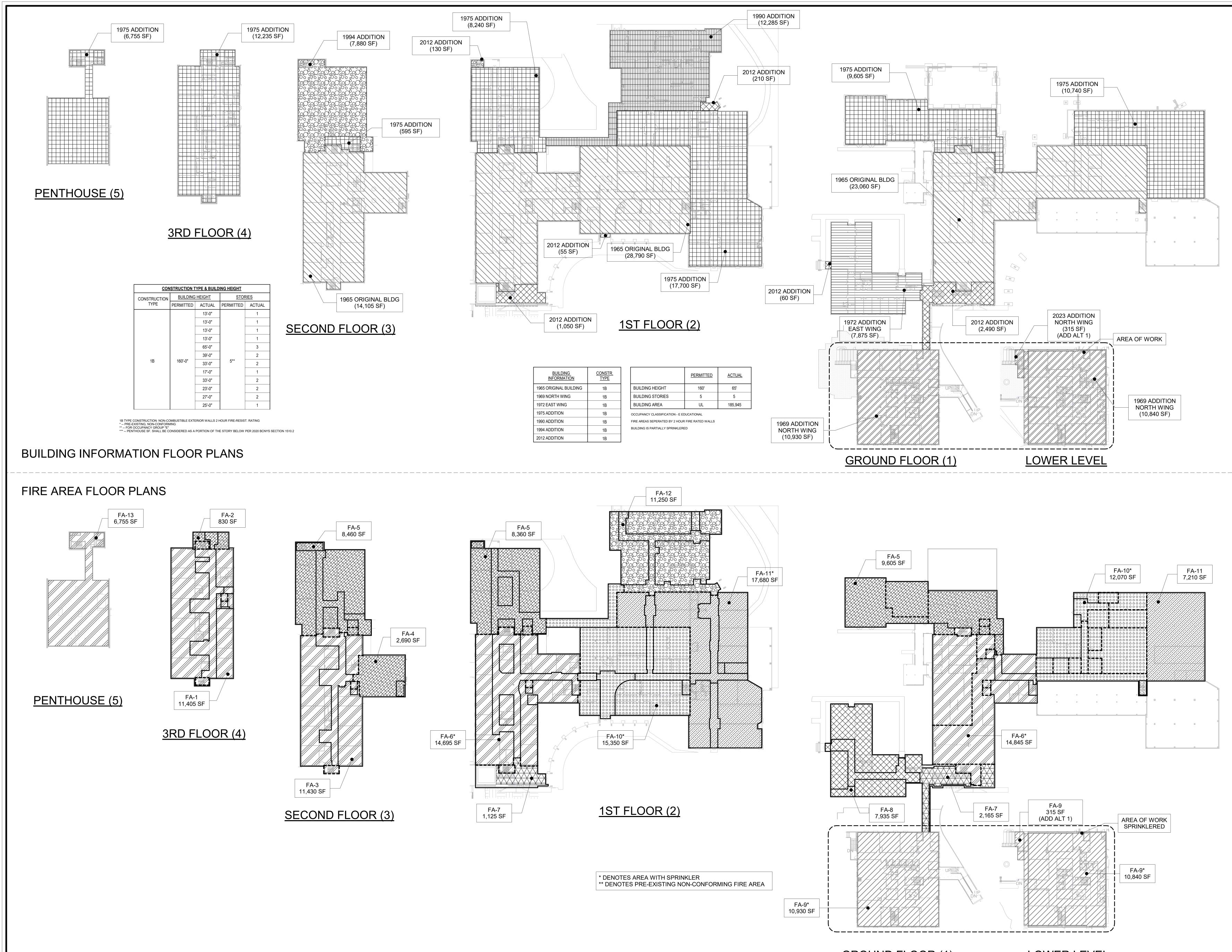
1/16" = 1'-0"

1/16" = 1'-0"

ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING **4 HARRIMAN DRIVE** GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR PRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY C +D ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHAL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE RITTEN PERMISSION OF KG+D. ITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OV CALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS ND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN RIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MU E SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. LTERATIONS BY ANY PERSON. IN ANY WAY, OF ANY ITEM CONTAINED ON TH OCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATIC OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. COPYRIGHT KG+D ARCHITECTS, PC . LL RIGHTS RESERVED. Professional Seal 04/24/24BID ISSUE08/21/23CON DOCS - NYSEDDateIssue Sheet Title CODE COMPLIANCE Job No. Date 04/24/2024 2023-1011 Scale Drawn / Checked Author Checker Sheet Number CC-1



FIRE	PERMITTED	EXISTING ACTUAL FIRE AREA				
AREAS	FLR AREA	LOWER	GROUND	1st FLR	2nd FLR	3rd FLR
"1"						11,405 SF
"2"						830 SF
"3"					11,870 SF	
"4"					2,875 SF	
"5"			9,605 SF	8,360 SF	8,750 SF	
"6"	UNLIMITED		14, 845 SF*	14,695 SF*		
"7"			2,165 SF	1,125 SF		
"8"			7,935 SF			
"9"		10,840 SF	10,930 SF			
"10"			12,070 SF*	15,350 SF*		
"11"			7,210 SF	17,680 SF*		
"12"				11,250 SF		
"13"						6,755 SF**
		10,840 SF	64,760 SF	68,460 SF	22,580 SF	18,990 SF**
	TOTAL EXISTING	FIRE AREA:				185,630 SF
		NEW CON	STRUCTION F	RE AREA		
"9"		315 SF				315 SF
	TOTAL ADDITION	185,945 SF				



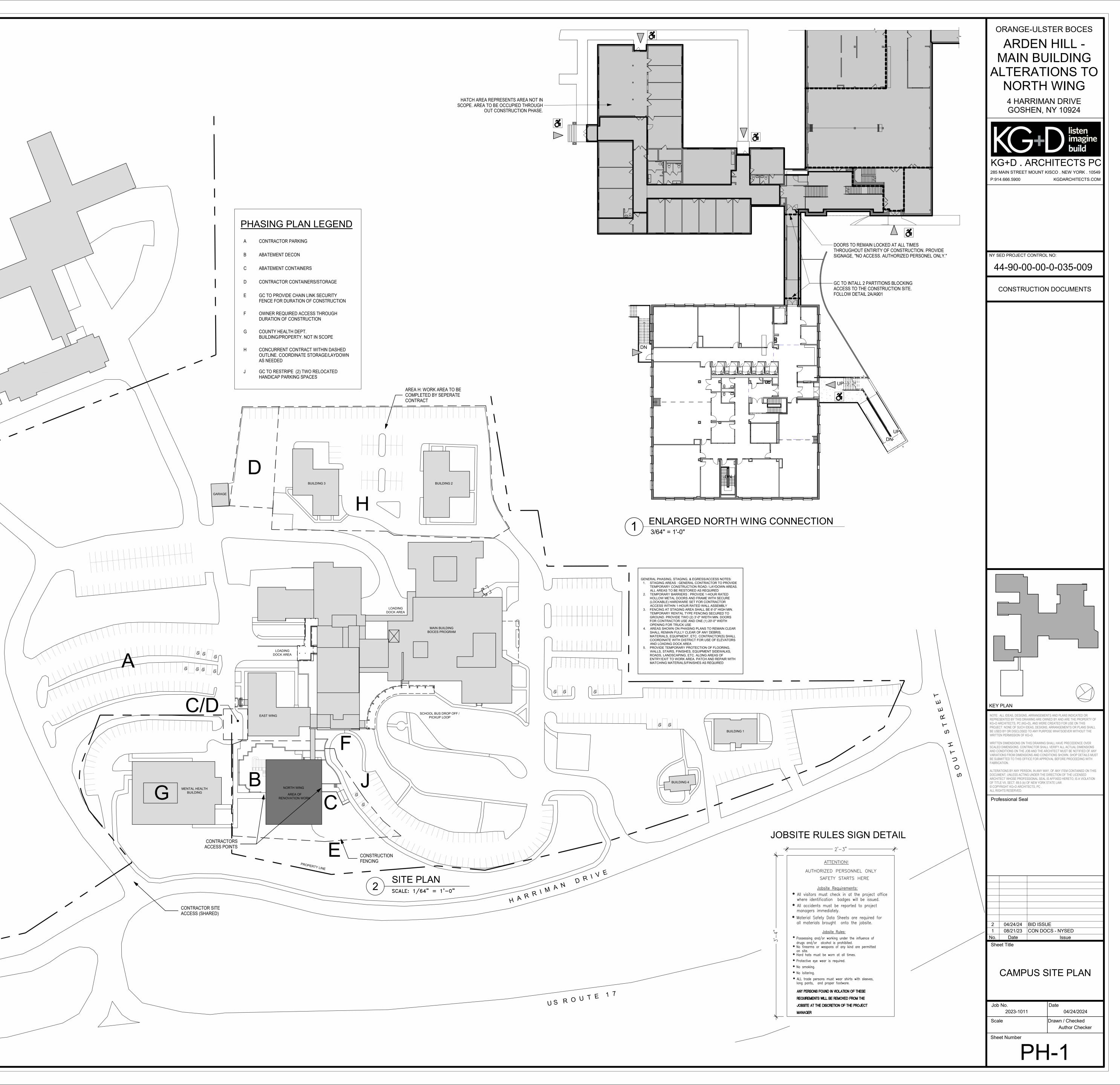
<u>GROUND FLOOR (1)</u>

LOWER LEVEL

ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 listen imagine KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS Y PI AN - ALL IDEAS DESIGNS ARRANGEMEN SENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPER RCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS ECT, NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS S D BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT PERMISSION OF KG+D. IMENSIONS CONTRACTOR SHALL VERIEVALL ACTUAL DIMEN IDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED (BMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDIN IONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED (ENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSEI ECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A TLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW Professional Seal 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Date Issue Sheet Title CODE COMPLIANCE **BLDG DIAGRAMS** Job No. Date 04/24/2024 2023-1011 Drawn / Checked Scale Author Checker Sheet Number CC-3

CONSTRUCTION IMPLEMENTATION NOTES

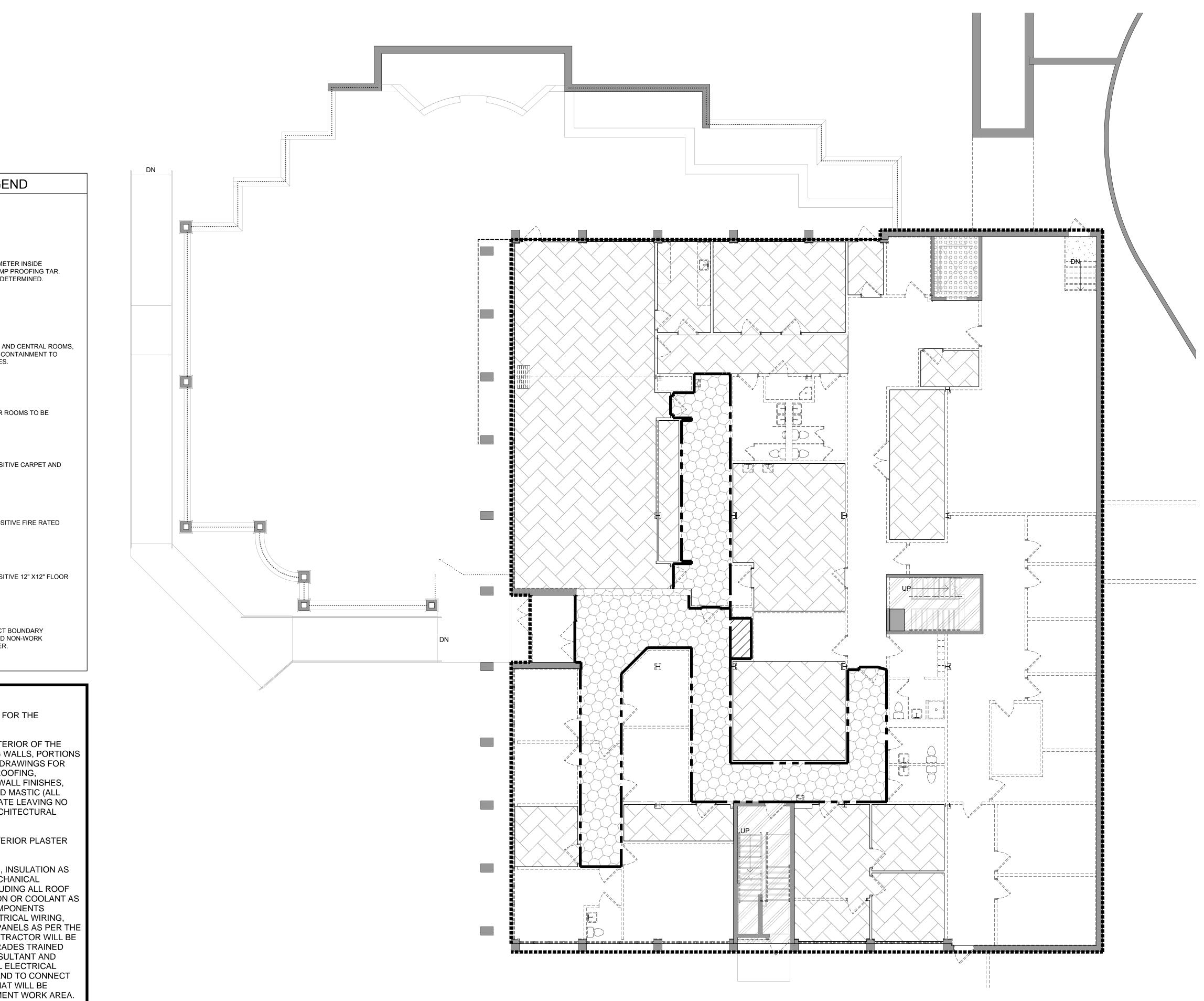
- FINAL LOCATIONS FOR CONTRACTOR STORAGE CONTAINERS TO BE COORDINATED WITH CONSTRUCTION MANAGER.
- 2. CONTRACTOR IS RESPONSIBLE TO REPAIR THE ASPHALT, SIDEWALKS, GRADE AND/OR GRASS AFTER REMOVAL OF FENCING, EQUIPMENT, AND MATERIALS. THIS INCLUDES ANY REPAIRS AS A RESULT OF THEIR ACTIVITIES.
- 3. CONTRACTOR SHALL PROTECT CONCRETE AND ASPHALT SURFACES FROM ANY EQUIPMENT OR MATERIAL DAMAGE BY USING STEEL PLATES. ANY DAMAGE TO HARD SURFACES SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR THAT CAUSED THE DAMAGED. CONTRACTORS ARE TO TAKE PRE-CONSTRUCTION PHOTOS/VIDEOS AND SHARE WITH CM/OWNER.
- 4. CONTRACTOR IS REQUIRED TO COORDINATE ON SITE FOR THEIR ACTIVITIES ALONG WITH OTHER CONTRACTORS AND THE DISTRICT.
- CONTRACTOR IS TO PROVIDE AND MAINTAIN PERIODICALLY ALL TEMPORARY CONSTRUCTION SIGNAGE AS SHOWN ON THE LOGISTICS PLANS AND PER OSHA AND
- LOCAL GOVERNMENT REGULATION. THIS INCLUDES BUT IS NOT LIMITED TO:
 JOBSITE RULES SIGN (3'-4" X 2'-3") SECURED TO SITE FENCE AT EACH ENTRANCE OF THE STAGING AREA (4 MINIMUM - 1 AT EACH LOCATION)
- "PERSONAL PROTECTIVE EQUIPMENT REQUIRED" SIGNAGE AT 20' INTERVALS
 ON ENTIRE PERIMETER OF SITE FENCE.
- "CONSTRUCTION ZONE WARNING" SIGNAGE AT 20' INTERVALS ON ENTIRE
 PERIMETER OF SITE FENCE AND AT ANY DOORS/ENTRANCE AREAS.
- PROJECT CONSTRUCTION DELIVERY SIGNAGE/WAY FINDING AT MAIN ENTRANCE (3'X5')
- 6. CONTRACTOR WILL BE REQUIRED TO SCHEDULE DELIVERIES WITH THE CONSTRUCTION MANAGER AND THE DISTRICT. THE DISTRICT AND/OR THE CONSTRUCTION MANAGER HOLD THE RIGHT TO REJECT DELIVERIES IF NOT SCHEDULED WITH THE CONSTRUCTION MANAGER OR DISTRICT.
- 7. MATERIAL WILL NOT BE PERMITTED TO BE STORED OUTSIDE FENCED-IN AREAS OR IN AREAS NOT DESIGNATED BY THE CONSTRUCTION MANAGER.
- 8. PARKING FOR CONTRACTORS IS NOT PERMITTED ON ANY OF THE STREETS AROUND THE SCHOOL DURING CONSTRUCTION. SEE SITE LOGISTICS FOR PARKING LOCATIONS.
- 9. CRANE PICKS AND OPERATIONS ARE TO BE SCHEDULED WITH THE CONSTRUCTION MANAGER DURING A KICK-OFF MEETING AND CONFIRMED THROUGH THE PROJECT'S MASTER CONSTRUCTION PROGRESS SCHEDULE.
- 10. WORKERS ARE REQUIRED TO WEAR ID BADGES, HIGH VISIBILITY VESTS, HARD HATS AND ALL OTHER REQUIRED PPE AT ALL TIMES WHILE ON SITE. WORKERS/PERSONNEL WITHOUT THESE REQUIREMENTS WILL BE REMOVED FROM THE SITE.
- INTERACTION BETWEEN CONSTRUCTION PERSONNEL AND STAFF/STUDENTS IS NOT PERMITTED. ANY PERSONNEL FOUND INTERACTING (VERBALLY OR PHYSICALLY) WILL BE ESCORTED BY LAW ENFORCEMENT FROM THE SITE. THIS IS A ZERO STRIKE POLICY.
 PRIME CONTRACTOR FOR GENERAL CONSTRUCTION IS RESPONSIBLE FOR THE PORTABLE TOILETS.
- 13. GENERAL CONTRACTOR IS RESPONSIBLE FOR PANEL FENCING. FENCING TO BE SIX FOOT MINIMUM WITH JOBSITE RULES CONSTRUCTION SIGNAGE. REQUIRED AROUND ALL MATERIALS, EQUIPMENT AND DUMPSTERS.
- 14. THE PRIME CONTRACTOR FOR GENERAL CONSTRUCTION WILL BE RESPONSIBLE FOR ALL DUST PARTITIONS TO CONTROL THE SPREAD OF DUST WITHIN THE BUILDING.
- 15. PRIME CONTRACTOR FOR GENERAL CONSTRUCTION WILL PROVIDE FINAL CLEANING OF ALL SPACES AFFECTED BY CONSTRUCTION ACTIVITIES.
- 16. ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR CLEANING UP THEIR OWN DEBRIS AT THE END OF EACH DAY AND DISPOSING IN THE DUMPSTERS PROVIDED BY THE PRIME CONTRACTOR FOR GENERAL CONSTRUCTION.
- 17. GENERAL CONTRACTOR MUST WATER ALL LAWN RESTORATION AREAS UNTIL GRASS HAS FULLY MATURED AND NO BARE SPOTS REMAIN.
- 18. GENERAL CONTRACTOR FOR PRIME CONSTRUCTION TO PROVIDE SNOW REMOVAL WITHIN THE CONSTRUCTION AS WELL AS MOW GRASS.
- 19. THE PRIME CONTRACTOR FOR GENERAL CONSTRUCTION IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL INTERIOR AND EXTERIOR PROTECTIONS.
- 20. ADDITIONAL INTERIOR LOGISTICS SHALL BE PLANNED AND DISCUSSED WITH THE GENERAL CONTRACTOR, CONSTRUCTION MANAGER AND THE DISTRICT PRIOR TO INSTALLATION.



ASBESTOS ABATEMENT NOTES (1) ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF FRIABLE ACM CONTAINING SPRAY ON FIRE-PROOFING ON COLUMNS, DECKING THROUGHOUT THE WORK AREA.

- 2 ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS CONTAINING MUDDED JOINT PIPE (MJP) THERMAL SYSTEMS INSULATION LOCATED THROUGHOUT.
- (3) ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF NON FRIABLE ACM POSITIVE 12X12 FLOOR TILE AND MASTIC AT LOCATIONS INDICATED ON THE PLANS.
- 4 ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ACM POSITIVE WATER PROOFING/DAMP PROOFING TAR LOCATED ON EXTERIOR CONCRETE AND/OR MASONRY BLOCK WALLS WHERE PENETRATIONS REQUIRE ABATEMENT.
- (5) ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ACM POSITIVE RESIDUAL CARPET MASTIC ON THE FIRST FLOOR AND CARPET MASTIC AND GLUE AT LOCATIONS INDICATED ON THE PLANS.
- 6 ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL OF ACM PIN MASTIC ON DUCTWORK THROUGHOUT THE WORK AREA.

GENERAL NOTE: THE ENTIRE BUILDING IS CONSIDERED CONTAMINATED BY ACM SRAY ON FIRE PROOFING (SOFP). THE SOFP IS DETERIORATED AND WAS FOUND WITHIN THE NON-ACM SHEETROCK WALL CAVITIES. IN ADDITION TO THE SOFP THERE'S ACM MUDDED JOINTS, PIPE	
NSULATION, ACM DUCT INSULATION PIN MASTIC, THE ENTIRE LOWER LEVEL HAS HAD ALL OF THE CARPET REMOVED LEAVING BEHIND THE RESIDUAL MASTIC. THERE IS ALSO POSITIVE 1X1 FLOOR TILE WITH POSITIVE MASTIC IN THE REMAINDER OF THE LOWER LEVEL. THE JPPER LEVEL HAS THE SAME CONDITIONS. THE EXTERIOR PERIMETER WALLS THOUGH OUT THE ENTIRE NORTH WING HAVE A POSITIVE TAR COATING THAT WILL NOT BE DISTURBED. THE ENTIRE ROOFING SYSTEM IS POSITIVE AND WILL BE REMOVED AS ACM.	ASBESTOS ABATEMENT LEGE
ARDEN HILL–BUILDING – NORTH WING LOWER LEVEL	REMOVE AND DISPOSE ACM PERIME MASONRY OR CONCRETE WALL DAME
BESTOS CONTRACTOR RESPONSIBLE FOR TOTAL AND MPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY SF NON-FRIABLE ASBESTOS-CONTAINING FLOOR TILE ACM MASTIC TO THE SUBSTRATE. ASBESTOS NTRACTOR IS RESPONSIBLE FOR ABATEMENT TO RFORM REMOVALS UTILIZING MANUAL, WET METHODS	SPOT REMOVAL LOCATIONS TO BE DE
SURE TOTAL AND COMPLETE REMOVAL EXISTING TILE SYSTEMS, INCLUDING ALL ASSOCIATED S, FILLERS, WOOD ETC. TO BUILDING RATE(S). SUBSEQUENT TO FINAL AIR CLEARANCES, JBSTRATE(S) SHALL BE WASHED WITH A ALIZING AGENT TO PREPARE THE SUBSTRATE TO T NEW COVERINGS/FINISH AS WELL AS ELIMINATE JAL ODORS.	SUSPENDED CEILING IN HALLWAYS A GRID TO BE REMOVED AND UNDER CO ADDRESS ANY ACM DEBRIS ON TILES
ESTOS CONTRACTOR RESPONSIBLE FOR TOTAL AND PLETE REMOVAL AND DISPOSAL OF APPROXIMATELY ISF NON-FRIABLE ASBESTOS-CONTAINING RESIDUAL PET MASTIC TO THE SUBSTRATE. ASBESTOS TRACTOR IS RESPONSIBLE FOR ABATEMENT TO FORM REMOVALS UTILIZING MANUAL, WET METHODS	SHEETROCK CEILING IN PERIMETER I REMOVED.
ENSURE TOTAL AND COMPLETE REMOVAL EXISTING DOR TILE SYSTEMS, INCLUDING ALL ASSOCIATED YERS, FILLERS, WOOD ETC. TO BUILDING BSTRATE(S). SUBSEQUENT TO FINAL AIR CLEARANCES, E SUBSTRATE(S) SHALL BE WASHED WITH A UTRALIZING AGENT TO PREPARE THE SUBSTRATE TO CEPT NEW COVERINGS/FINISH AS WELL AS ELIMINATE	REMOVE AND DISPOSE OF ACM POSI CARPET MASTIC
JAL ODORS. STOS CONTRACTOR RESPONSIBLE FOR TOTAL AND LETE REMOVAL AND DISPOSAL OF APPROXIMATELY SF OF CONTAMINATED SUSPENDED CEILING TILE R SHEETROCK CEILING, ALL PIPE INSULATION, ALL DUCT WORK INSULATION ALONG WITH THE VE PIN MASTIC, ALL INTERNAL SHEETROCK WALLS,	REMOVE AND DISPOSE OF ACM POSI DOOR AND FRAME AT STAIRWELL.
DER BLOCK WALLS SCHEDULED TO BE HED AS PART OF THIS PROJECT AS SOFP HAS JND WITHIN THE CAVITIES. THE ABATEMENT CTOR WILL BE REQUIRED TO COMPLETE ALL ON UNDER THE REGULATIONS OF ICR-56	REMOVE AND DISPOSE OF ACM POSITILES AND MASTIC.
TOS CONTRACTOR RESPONSIBLE FOR TOTAL AND ETE REMOVAL AND DISPOSAL OF APPROXIMATELY DUCT WORK INSULATION ALONG WITH THE /E PIN MASTIC, ALL INTERNAL SHEETROCK WALLS, NDER BLOCK WALLS SCHEDULED TO BE ISHED AS PART OF THIS PROJECT AS SOFP HAS OUND WITHIN THE CAVITIES. THE ABATEMENT	REFER TO SELECTIVE DEMOLITION DRAWING SERIES. RESPECT LINES BETWEEN DEMOLITION / PHASING AREAS AND WORK AND AREAS. PROTECT AREAS THAT ARE EXPOSED TO THE WEATHER
ONTRACTOR WILL BE REQUIRED TO COMPLETE ALL EMOLITION UNDER THE REGULATIONS OF ICR-56	ASBESTOS SCOPE OF WORK
ARDEN HILL-BUILDING – NORTH WING UPPER LEVEL	THE ABATEMENT CONTRACTOR IS RESPONSIBLE F FOLLOWING:
BESTOS CONTRACTOR RESPONSIBLE FOR TOTAL AND MPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY DOSF NON-FRIABLE ASBESTOS-CONTAINING FLOOR E ON ACM MASTIC TO THE SUBSTRATE. ASBESTOS NTRACTOR IS RESPONSIBLE FOR ABATEMENT TO RFORM REMOVALS UTILIZING MANUAL, WET METHODS ENSURE TOTAL AND COMPLETE REMOVAL EXISTING DOR TILE SYSTEMS, INCLUDING ALL ASSOCIATED (ERS, FILLERS, WOOD ETC. TO BUILDING BSTRATE(S). SUBSEQUENT TO FINAL AIR CLEARANCES, E SUBSTRATE(S) SHALL BE WASHED WITH A	1. REMOVING EVERYTHING FROM WITHIN THE INTER BUILDING. ALL INTERIOR STUDDED AND FURRING WOF INTERIOR CMU WALLS (SEE ARCHITECTURAL DI WALLS TO REMAIN), CEILINGS, SPRAY ON FIREPRO PERSONAL CONTENT, FIXTURES, FURNISHINGS, WA ELEVATOR ASSEMBLY, CARPETS, FLOOR TILE AND FLOORS ARE TO BE GRINDED DOWN TO SUBSTRAT FLOOR FILLER OR CERAMIC TILE). REFER TO ARCH DRAWINGS FOR ADDITIONAL INFORMATION
EUTRALIZING AGENT TO PREPARE THE SUBSTRATE TO CCEPT NEW COVERINGS/FINISH AS WELL AS ELIMINATE ESIDUAL ODORS.	2. REMOVAL OF EXTERIOR ROOF ASSEMBLY, EXTE SOFFITS, EXTERIOR DOORS AND WINDOWS
BESTOS CONTRACTOR RESPONSIBLE FOR TOTAL AND OMPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY OSF CARPET WITH NON-FRIABLE BESTOS-CONTAINING CARPET MASTIC TO THE BESTOS-CONTAINING CARPET MASTIC TO THE BESTRATE. ASBESTOS CONTRACTOR IS RESPONSIBLE OR ABATEMENT TO PERFORM REMOVALS UTILIZING ANUAL, WET METHODS TO ENSURE TOTAL AND OMPLETE REMOVAL EXISTING FLOOR TILE SYSTEMS, CLUDING ALL ASSOCIATED LAYERS, FILLERS, WOOD C. TO BUILDING SUBSTRATE(S). SUBSEQUENT TO FINAL R CLEARANCES, THE SUBSTRATE(S) SHALL BE WASHED TH A NEUTRALIZING AGENT TO PREPARE THE BESTRATE TO ACCEPT NEW COVERINGS/FINISH AS WELL S ELIMINATE RESIDUAL ODORS.	3. REMOVAL OF ALL PLUMBING FIXTURES, PIPING, I PER THE PLUMBING DEMO DRAWINGS. HVAC/MECH EQUIPMENT, DUCT WORK, FAN UNITS, ETC., INCLUI TOP EQUIPMENT, PROPER EVACUATION OF FREON PER THE DEMO DRAWINGS. ALL ELECTRICAL COMP INCLUDING ALL LIGHT FIXTURES, IT WIRES, ELECTR HANGERS, APART FROM THE MAIN ELECTRICAL PA ELECTRICAL DEMO DRAWINGS. ABATEMENT CONT REQUIRED TO SUPPLY AT MINIMUM AN ALLIED TRA ELECTRICIAN (APPROVED BY THE DISTRICT CONSU ONSITE PROJECT MONITOR) TO DISCONNECT ALL I WIRING DURING PREP FROM THE MAIN PANELS AN ABATEMENT CONTRACTOR SUPPLIED PANELS THA LOCATED OUTSIDE OF THE BUILDING OR ABATEMEN
ASBESTOS CONTRACTOR RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY 4,000SF OF CONTAMINATED SUSPENDED CEILING TILE AND/OR SHEETROCK CEILING, ALL PIPE INSULATION, ALL IVAC DUCT WORK INSULATION ALONG WITH THE POSITIVE PIN MASTIC, ALL INTERNAL SHEETROCK WALLS, ANY CINDER BLOCK WALLS SCHEDULED TO BE DEMOLISHED AS PART OF THIS PROJECT AS SOFP HAS BEEN FOUND WITHIN THE CAVITIES. THE ABATEMENT CONTRACTOR WILL BE REQUIRED TO COMPLETE ALL DEMOLITION UNDER THE REGULATIONS OF ICR-56	REFER TO DRAWINGS FP101, P101, P102, M101, M10 DRAWINGS SHOWING PLUMBING, FIRE PROTECTIO AND ELECTRICAL REMOVALS



102, E101, E102 FOR ION, MECHANICAL

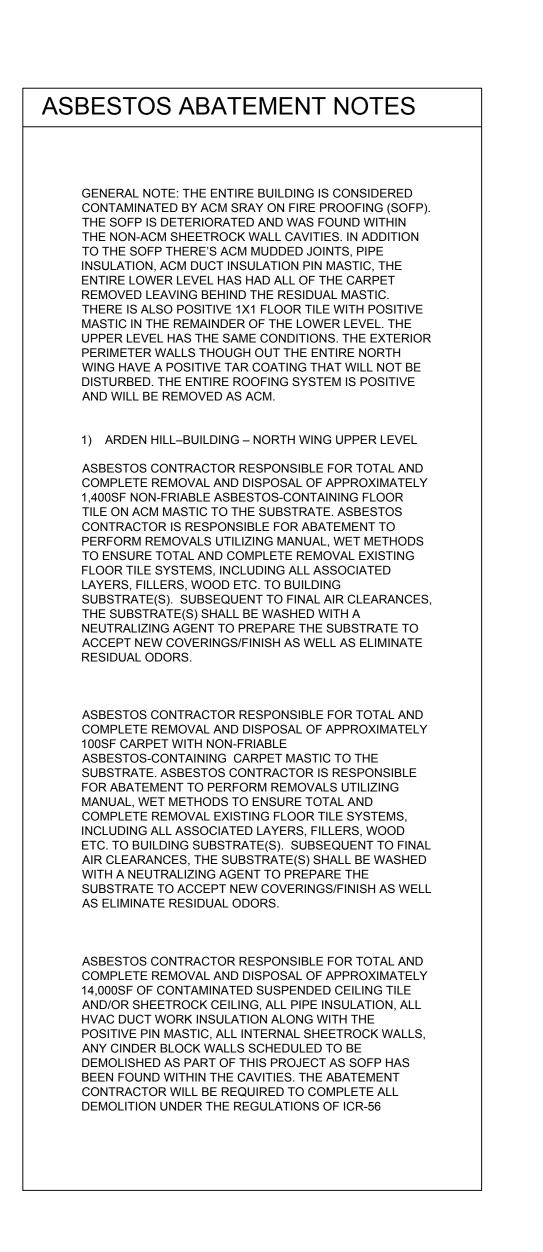
NORTH WING LOWER LEVEL ABATEMENT PLAN **~**1 ` 1/8" = 1'-0"

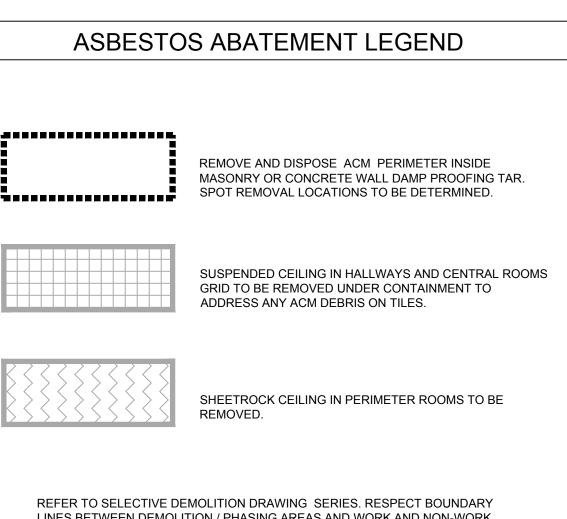
ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM 1376 ROUTE 9 WAPPINGERS FALLS, NY 12590 P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KAEYER, GARMENT, & DAVIDSON ARCHITECTS, PC (KG&D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF (KG&D). WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. COPYRIGHT KAEVER, GARMENT + DAVIDSON ARCHITECTS & ENGINEERS, PC ALL RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Issue Date Sheet Title NORTH WING LOWER LEVEL ABATEMENT PLAN Job No. Date 08/25/2023 2023-1011 Drawn / Checked Scale AM/LG Sheet Number HZ101

ASBESTOS ABATEMENT NOTES

- (1) ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF FRIABLE ACM CONTAINING SPRAY ON FIRE-PROOFING ON COLUMNS, DECKING THROUGHOUT THE WORK AREA.
- ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF FRIABLE (2)
- ASBESTOS CONTAINING MUDDED JOINT PIPE (MJP) THERMAL SYSTEMS INSULATION LOCATED THROUGHOUT. 3 ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ACM POSITIVE WATER PROOFING/DAMP PROOFING TAR LOCATED ON EXTERIOR CONCRETE AND/OR MASONRY BLOCK WALLS WHERE PENETRATIONS
- (4) ASBESTOS CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ACM POSITIVE RESIDUAL CARPET MASTIC ON THE FIRST FLOOR AND CARPET MASTIC AND GLUE AT LOCATIONS INDICATED ON THE PLANS.

REQUIRE ABATEMENT.





LINES BETWEEN DEMOLITION / PHASING AREAS AND WORK AND NON-WORK AREAS, PROTECT AREAS THAT ARE EXPOSED TO THE WEATHER.

ASBESTOS SCOPE OF WORK

THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

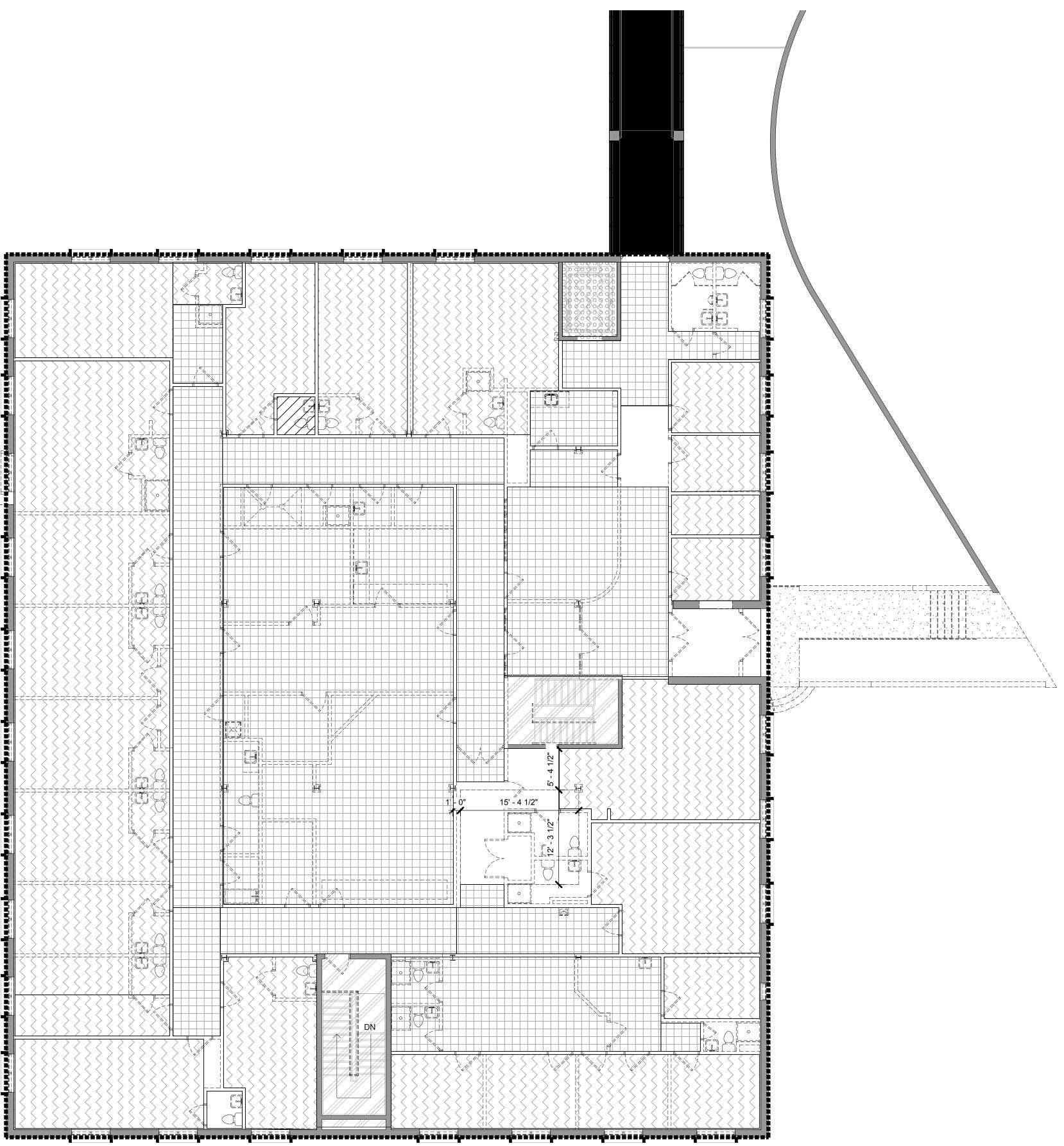
. REMOVING EVERYTHING FROM WITHIN THE INTERIOR OF THE BUILDING. ALL INTERIOR STUDDED AND FURRING WALLS, PORTIONS OF INTERIOR CMU WALLS (SEE ARCHITECTURAL DRAWINGS FOR WALLS TO REMAIN), CEILINGS, SPRAY ON FIREPROOFING, PERSONAL CONTENT, FIXTURES, FURNISHINGS, WALL FINISHES, ELEVATOR ASSEMBLY, CARPETS, FLOOR TILE AND MASTIC (ALL FLOORS ARE TO BE GRINDED DOWN TO SUBSTRATE LEAVING NO FLOOR FILLER OR CERAMIC TILE). REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION

2. REMOVAL OF EXTERIOR ROOF ASSEMBLY, EXTERIOR PLASTER SOFFITS, EXTERIOR DOORS AND WINDOWS

3. REMOVAL OF ALL PLUMBING FIXTURES, PIPING, INSULATION AS PER THE PLUMBING DEMO DRAWINGS. HVAC/MECHANICAL EQUIPMENT, DUCT WORK, FAN UNITS, ETC., INCLUDING ALL ROOF TOP EQUIPMENT, PROPER EVACUATION OF FREON OR COOLANT AS PER THE DEMO DRAWINGS. ALL ELECTRICAL COMPONENTS INCLUDING ALL LIGHT FIXTURES, IT WIRES, ELECTRICAL WIRING, HANGERS, APART FROM THE MAIN ELECTRICAL PANELS AS PER THE ELECTRICAL DEMO DRAWINGS. ABATEMENT CONTRACTOR WILL BE REQUIRED TO SUPPLY AT MINIMUM AN ALLIED TRADES TRAINED ELECTRICIAN (APPROVED BY THE DISTRICT CONSULTANT AND ONSITE PROJECT MONITOR) TO DISCONNECT ALL ELECTRICAL WIRING DURING PREP FROM THE MAIN PANELS AND TO CONNECT ABATEMENT CONTRACTOR SUPPLIED PANELS THAT WILL BE LOCATED OUTSIDE OF THE BUILDING OR ABATEMENT WORK AREA.

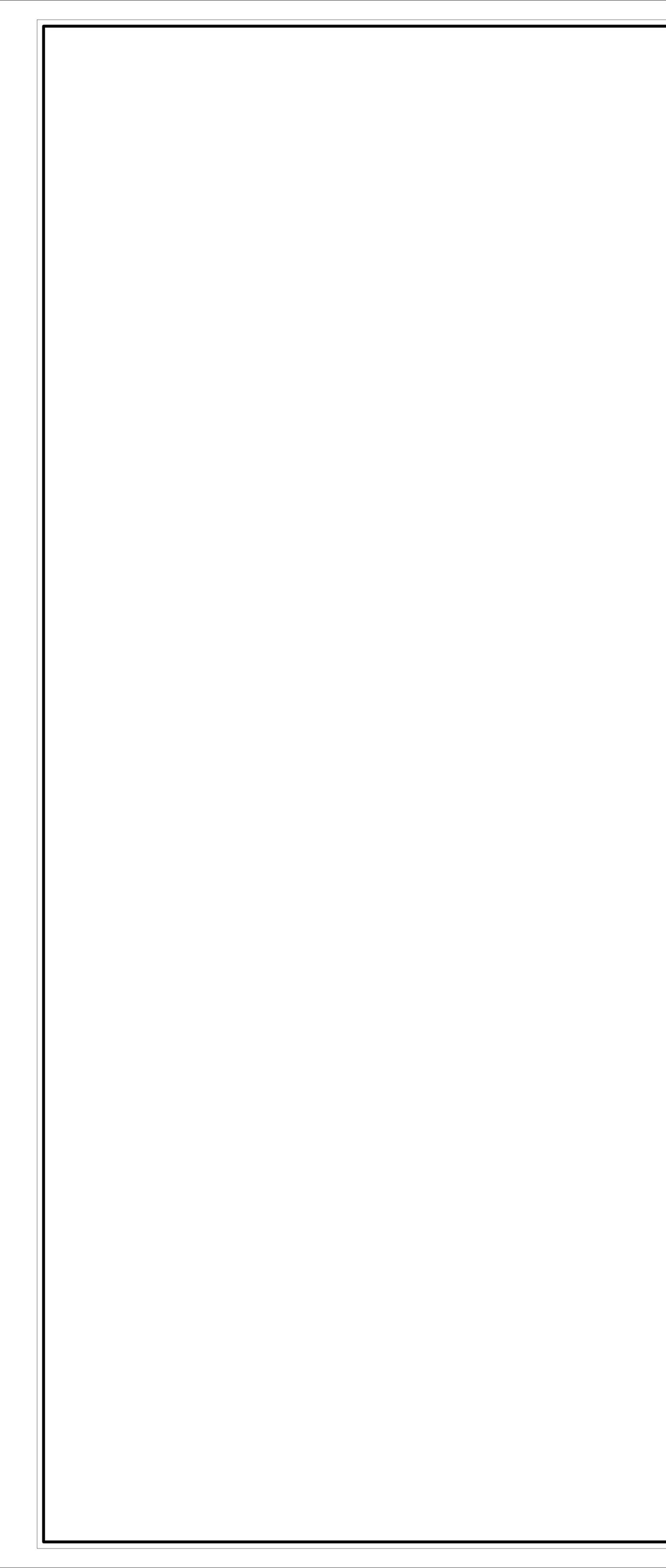
REFER TO DRAWINGS FP101, P101, P102, M101, M102, E101, E102 FOR DRAWINGS SHOWING PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL REMOVALS

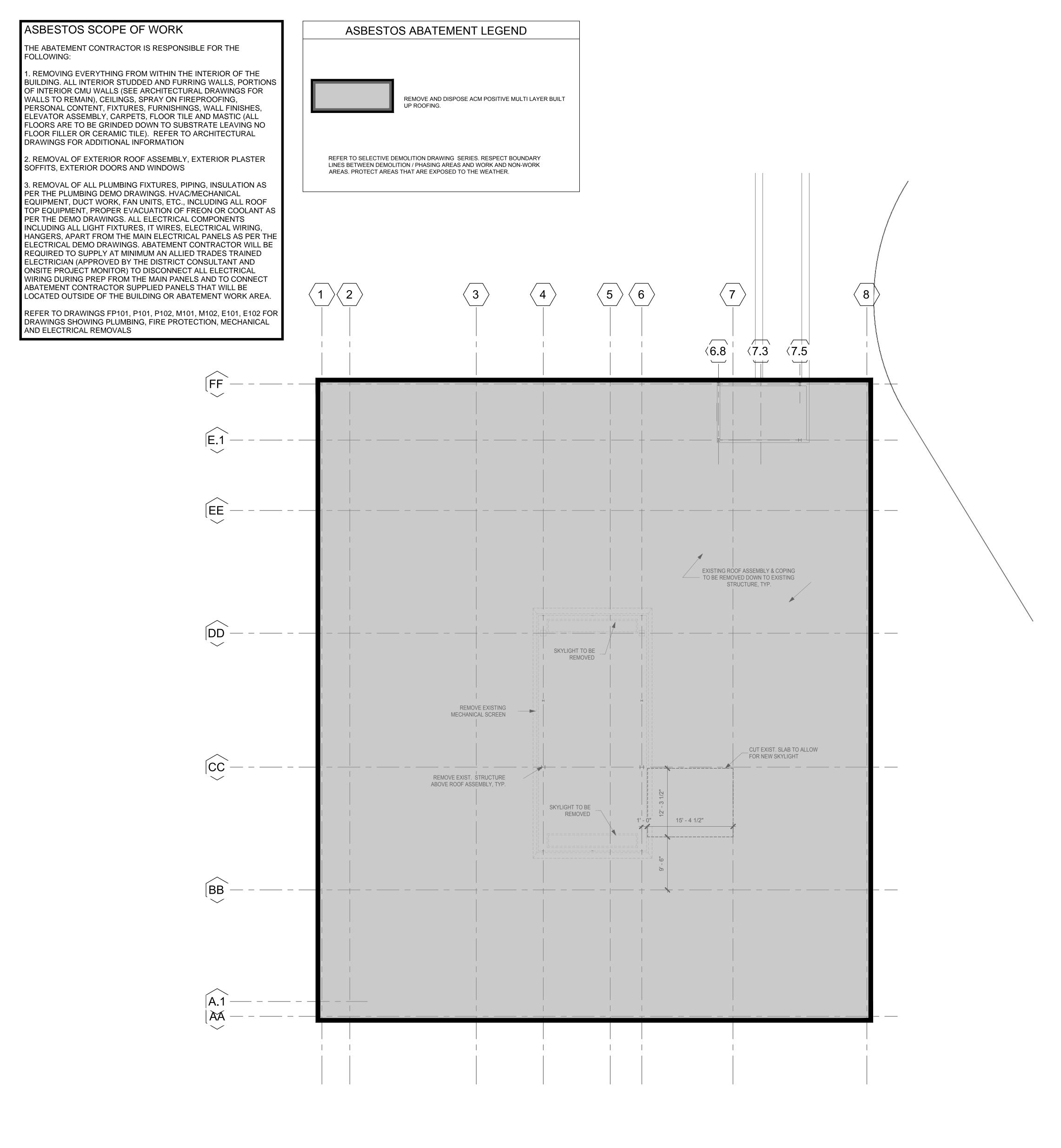
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1 NORTH WING UPPER LEVEL ABATEMENT PLAN 1/8" = 1'-0"

ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM 1376 ROUTE 9 WAPPINGERS FALLS, NY 12590 P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS EY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KAEYER, GARMENT, & DAVIDSON ARCHITECTS, PC (KG&D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER VITHOUT THE WRITTEN PERMISSION OF (KG&D). WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER CALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII. SECT. 69.5 (b) OF NEW YORK STATE LAW. COPYRIGHT KAEYER, GARMENT + DAVIDSON ARCHITECTS & ENGINEERS, PC ALL RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Issue Sheet Tit NORTH WING UPPER LEVEL ABATEMENT PLAN Job No. 08/25/2023 2023-1011 Drawn / Checked Scale AS NOTED AM/LG Sheet Number HZ102

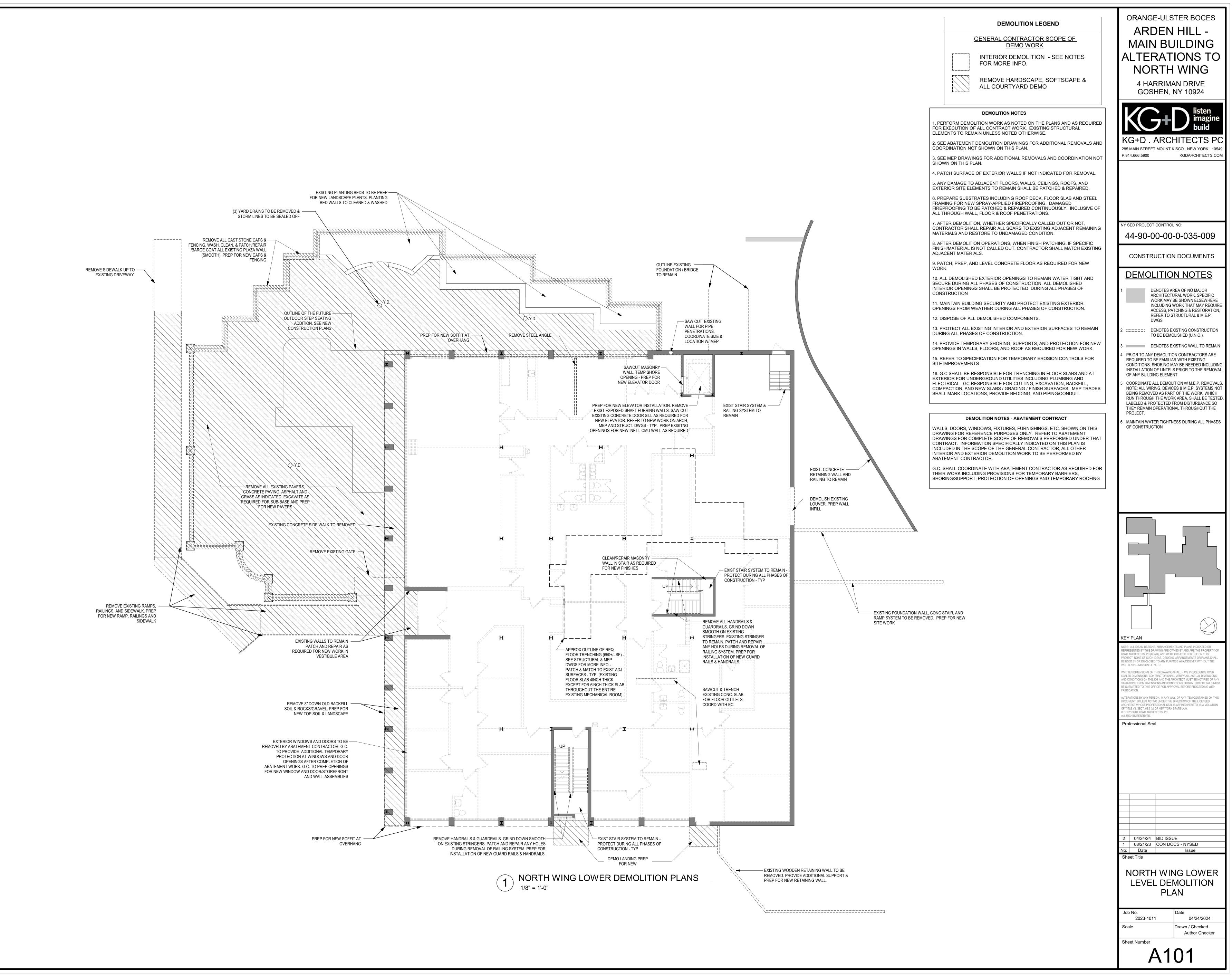


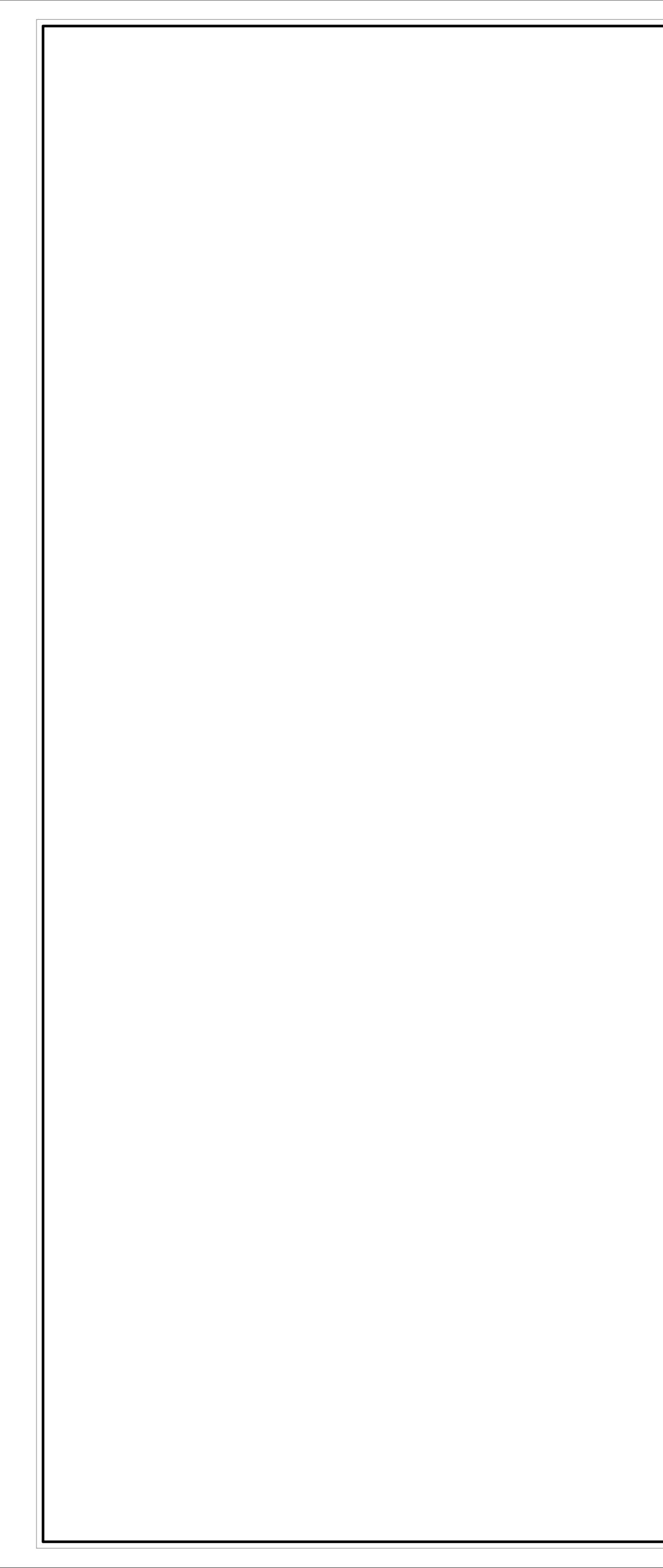


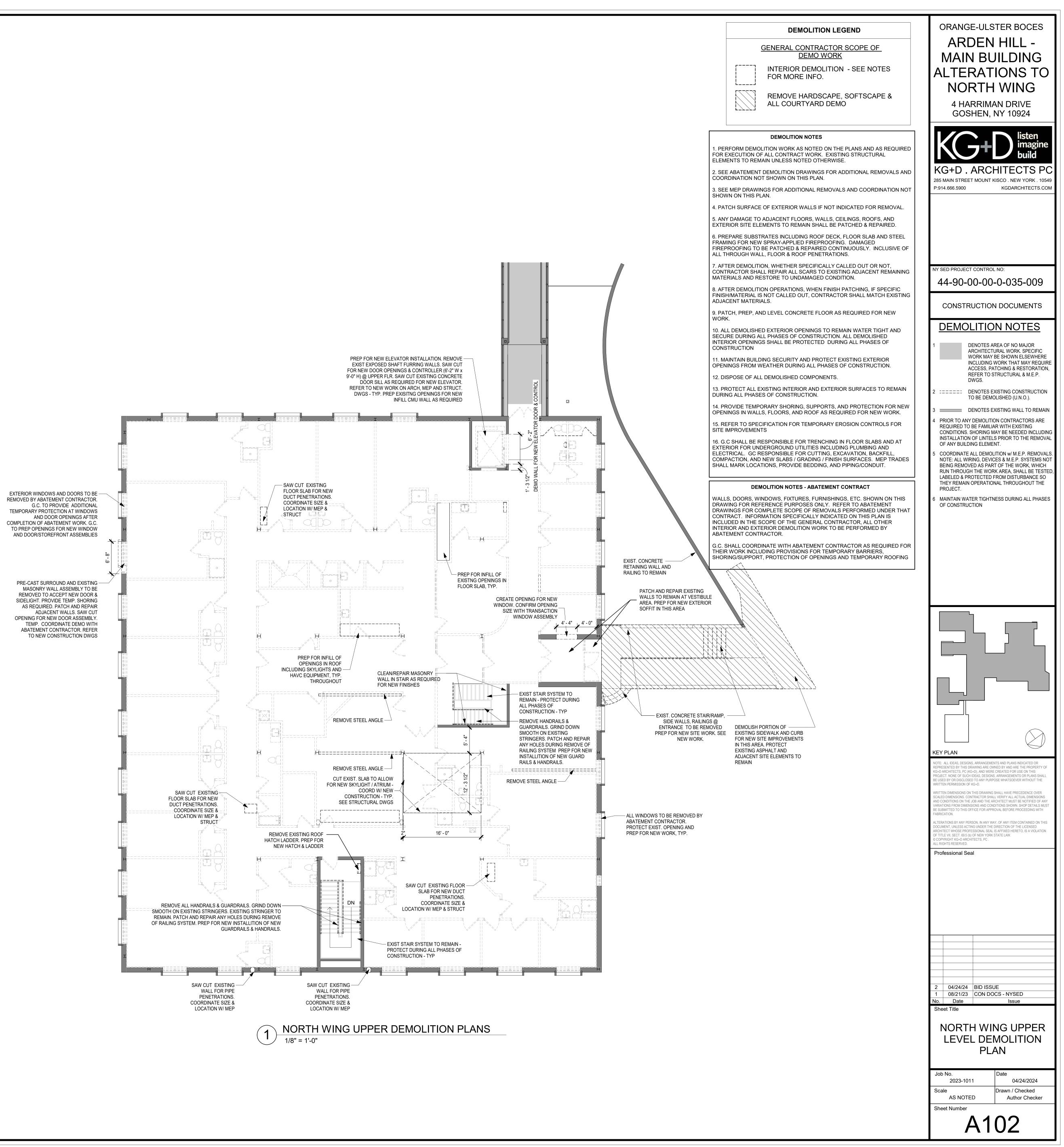
1 NORTH WING ROOF ABATEMENT PLAN

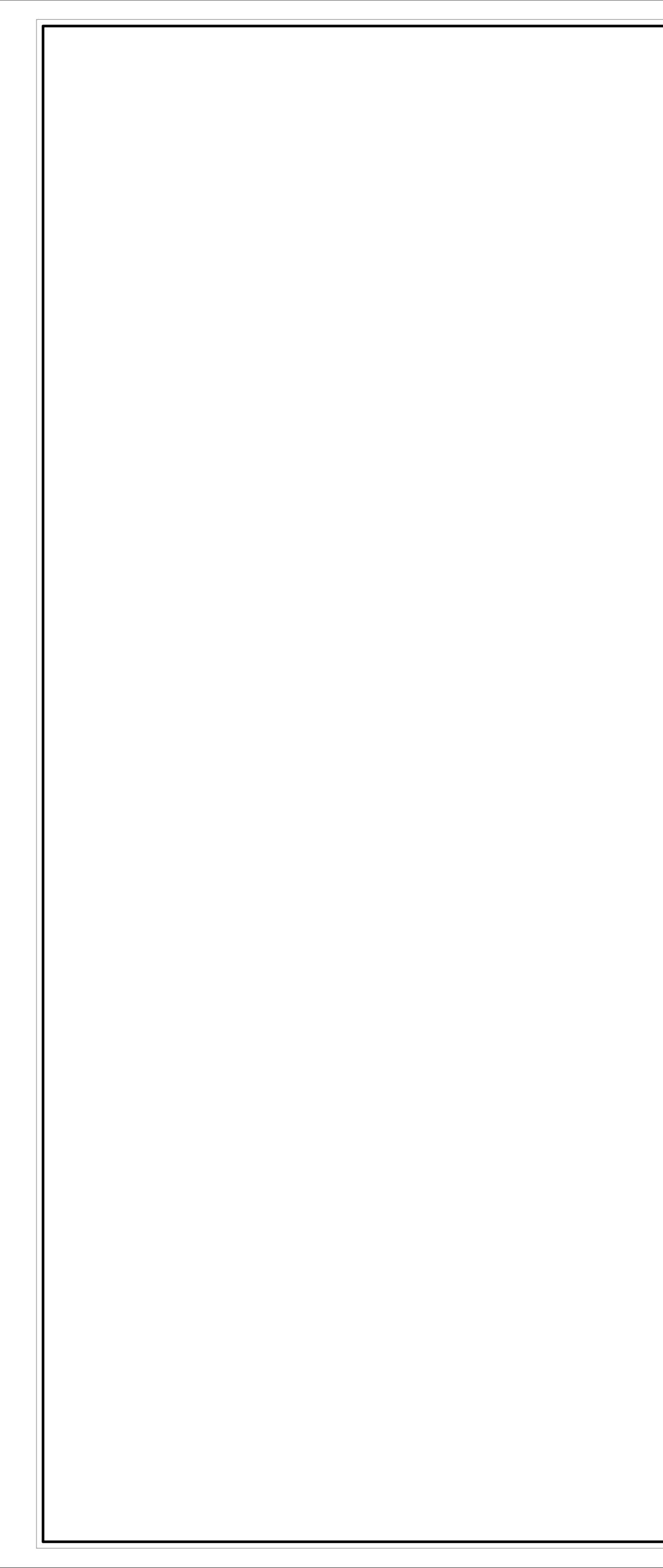
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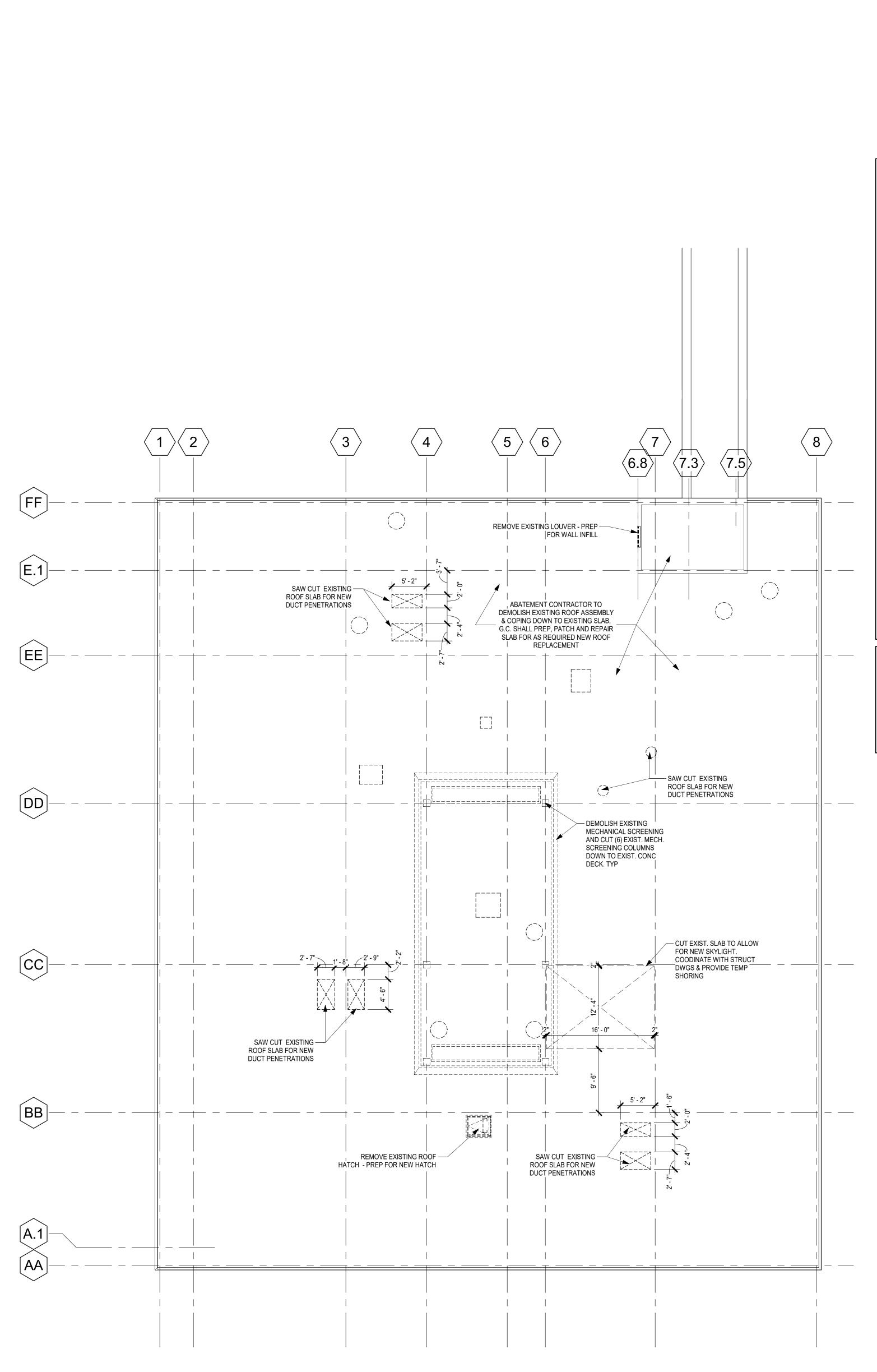
ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM DuES 1376 ROUTE 9 WAPPINGERS FALLS, NY 12590 P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KAEYER, GARMENT, & DAVIDSON ARCHITECTS, PC (KG&D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF (KG&D). WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERED, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. COPYRIGHT KAEYER, GARMENT + DAVIDSON ARCHITECTS & ENGINEERS, PC ALL RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Date Issue Sheet Titl **ROOF ABATEMENT** PLAN Job No. Date 08/25/2023 2023-1011 Drawn / Checked Scale AM/LG Sheet Number HZ103











DEMOLITION LEGEND GENERAL CONTRACTOR SCOPE OF DEMO WORK INTERIOR DEMOLITION - SEE NOTES FOR MORE INFO. REMOVE HARDSCAPE, SOFTSCAPE & ALL COURTYARD DEMO DEMOLITION NOTES 1. PERFORM DEMOLITION WORK AS NOTED ON THE PLANS AND AS REQUIR FOR EXECUTION OF ALL CONTRACT WORK. EXISTING STRUCTURAL ELEMENTS TO REMAIN UNLESS NOTED OTHERWISE. 2. SEE ABATEMENT DEMOLITION DRAWINGS FOR ADDITIONAL REMOVALS AND COORDINATION NOT SHOWN ON THIS PLAN. 3. SEE MEP DRAWINGS FOR ADDITIONAL REMOVALS AND COORDINATION NOT SHOWN ON THIS PLAN. 4. PATCH SURFACE OF EXTERIOR WALLS IF NOT INDICATED FOR REMOVAL.

5. ANY DAMAGE TO ADJACENT FLOORS, WALLS, CEILINGS, ROOFS, AND EXTERIOR SITE ELEMENTS TO REMAIN SHALL BE PATCHED & REPAIRED. 6. PREPARE SUBSTRATES INCLUDING ROOF DECK, FLOOR SLAB AND STEEL FRAMING FOR NEW SPRAY-APPLIED FIREPROOFING. DAMAGED FIREPROOFING TO BE PATCHED & REPAIRED CONTINUOUSLY. INCLUSIVE OF ALL THROUGH WALL, FLOOR & ROOF PENETRATIONS. 7. AFTER DEMOLITION, WHETHER SPECIFICALLY CALLED OUT OR NOT, CONTRACTOR SHALL REPAIR ALL SCARS TO EXISTING ADJACENT REMAINING MATERIALS AND RESTORE TO UNDAMAGED CONDITION. 8. AFTER DEMOLITION OPERATIONS, WHEN FINISH PATCHING, IF SPECIFIC FINISH/MATERIAL IS NOT CALLED OUT, CONTRACTOR SHALL MATCH EXISTING ADJACENT MATERIALS.

WORK. 10. ALL DEMOLISHED EXTERIOR OPENINGS TO REMAIN WATER TIGHT AND SECURE DURING ALL PHASES OF CONSTRUCTION. ALL DEMOLISHED INTERIOR OPENINGS SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION

1. MAINTAIN BUILDING SECURITY AND PROTECT EXISTING EXTERIOR OPENINGS FROM WEATHER DURING ALL PHASES OF CONSTRUCTION. 12. DISPOSE OF ALL DEMOLISHED COMPONENTS.

3. PROTECT ALL EXISTING INTERIOR AND EXTERIOR SURFACES TO REMAIN DURING ALL PHASES OF CONSTRUCTION.

14. PROVIDE TEMPORARY SHORING, SUPPORTS, AND PROTECTION FOR NEW OPENINGS IN WALLS, FLOORS, AND ROOF AS REQUIRED FOR NEW WORK.

15. REFER TO SPECIFICATION FOR TEMPORARY EROSION CONTROLS FOR SITE IMPROVEMENTS

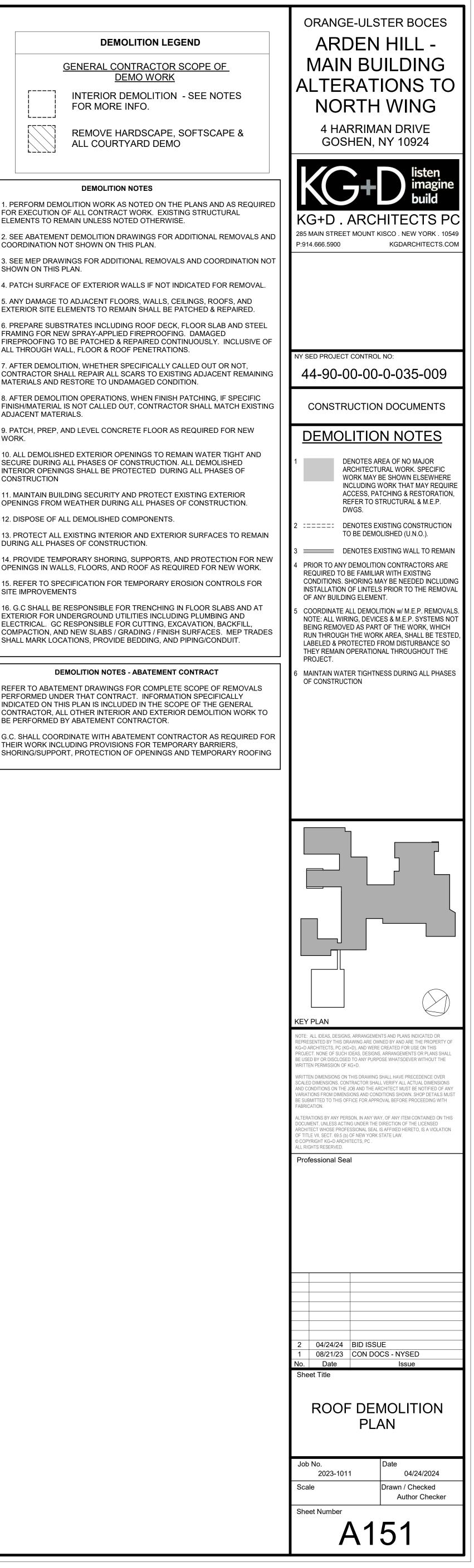
16. G.C SHALL BE RESPONSIBLE FOR TRENCHING IN FLOOR SLABS AND AT EXTERIOR FOR UNDERGROUND UTILITIES INCLUDING PLUMBING AND ELECTRICAL. GC RESPONSIBLE FOR CUTTING, EXCAVATION, BACKFILL, COMPACTION, AND NEW SLABS / GRADING / FINISH SURFACES. MEP TRADES SHALL MARK LOCATIONS, PROVIDE BEDDING, AND PIPING/CONDUIT.

DEMOLITION NOTES - ABATEMENT CONTRACT REFER TO ABATEMENT DRAWINGS FOR COMPLETE SCOPE OF REMOVALS PERFORMED UNDER THAT CONTRACT. INFORMATION SPECIFICALLY INDICATED ON THIS PLAN IS INCLUDED IN THE SCOPE OF THE GENERAL

CONTRACTOR, ALL OTHER INTERIOR AND EXTERIOR DEMOLITION WORK TO BE PERFORMED BY ABATEMENT CONTRACTOR. G.C. SHALL COORDINATE WITH ABATEMENT CONTRACTOR AS REQUIRED FOR

THEIR WORK INCLUDING PROVISIONS FOR TEMPORARY BARRIERS, SHORING/SUPPORT, PROTECTION OF OPENINGS AND TEMPORARY ROOFING

1 NORTH WING ROOF DEMOLITION PLAN 1/8" = 1'-0"



TYPICAL LAP SPLICE - CONCRETE

[
CONCRETE LAP SPLICES						
BAR	LENGTH, IN. (U.N.O.)					
	F'c = 3000 PSI	F'c = 3500 PSI	F'c = 4000 PSI			
#3	13	12	12			
#4	18	16	15			
#5	22	20	19			
#6	26	24	23			
#7	41	38	36			
#8	54	50	47			

	TYP. CMU LINTELS @ NON-LOAD BEARING WALLS							
MARK	CLEAR SPAN	BLOCK WIDTH	DEPTH (D)	HORIZONTAL REINFORCING	SHEAR STIRRUPS/TEES	REMARKS		
L1	0 TO 3'-4"	8"	8"	2-#4 BOTTOM	-			
L2	3'-4" TO 6'-4"	8"	8"	2-#5 BOTTOM	-			
L3	6'-4" TO 8'-4"	8"	16"	1-#6 BOTTOM	-			

TYPICAL LAP SPLICE - MASONRY

	MASONRY L	AP SPLICES	
BAR		LENGTH, IN. (U.N.O.)	
	F'm = 1500 PSI	F'm = 2000 PSI	F'm = 2500 PSI
#3	16	15	15
#4	27	24	21
#5	33	30	27
#6	40	36	33
#7	54	48	42
#8	59	51	46

<u>NOTE:</u> WHEN TWO BAR SIZES ARE SPLICED, USE LAP LENGTH OF SMALLER BAR.

<u>CMU LINTEL SCHEDULE</u>

MASONRY NOTES:

- ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE "BU CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/TMS 402.
- ALL CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT WITH TWO (2) CELLS AND CONFORM TO ASTM C90.
- 3. ALL BRICK MASONRY UNITS SHALL CONFORM TO ASTM C216 OR ASTM C67.
- ALL MORTAR SHALL CONFORM TO ASTM C270.
- 5. ALL GROUT SHALL CONFORM TO ASTM C476.
- 6. THE MINIMUM SPECIFIED NET AREA COMPRESSIVE STRENGTH OF MASONRY (fm) SH PSI AND SHALL CONSIST OF THE FOLLOWING COMPONENTS: CONCRETE MASONRY UNITS: 2000 PSI MINIMUM NET AREA COMPRESSIVE STR BRICK MASONRY UNITS: 4950 PSI MINIMUM NET AREA COMPRESSIVE STRENGT PORTLAND CEMENT MORTAR: TYPE S GROUT: 2000 psi MINIMUM 28 DAY COMPRESSIVE STRENGTH
- PROVIDE CONTINUOUS HORIZONTAL BOND BEAMS REINFORCED WITH (1) #6 BARS WI BOND BEAM ELEVATIONS AS INDICATED. DO NOT CONTINUE REINFORCEMENT ACROS
- CONTROL JOINTS. EXCEPT FOR CONTROL JOINTS AT OPENINGS. GROUT ALL CELLS CONTAINING REINFORCEMENT AND/OR HEADED STUD ANCHORS /
- DIRECTLY BELOW ALL BEARING PLATES. REINFORCEMENT SPLICES SHALL BE LAPPED. SEE LAP SPLICE TABLE. 9
- UNLESS OTHERWISE INDICATED, ALL CMU WALLS SHALL HAVE A NOMINAL WIDTH OF 10. SHOWN ON PLANS) AND BE PROVIDED WITH HOT DIPPED GALVANIZED HORIZONTAL REINFORCING (DURO-WAL W1.7 LADDER WIRE, OR EQUAL) EVERY OTHER COURSE (1
- PROVIDE HORIZONTAL REINFORCING FOR THE FIRST TWO COURSES ABOVE ALL LIN REINFORCEMENT SHALL BE PLACED SUCH THAT A MINIMUM OF 5/8" GROUT COVER EX 11 EXTERIOR FACES, AND A MINIMUM OF 1/2" GROUT COVER EXISTS FOR INTERIOR FACE
- 12. (2) CONTINUOUS VERTICAL #5 BARS SHALL BE PROVIDED FOR THE FULL HEIGHT OF T AND ANCHORED INTO THE FOOTING AT THE FOLLOWING LOCATIONS: WALL CORNERS EACH SIDE OF CONTROL JOINTS
 - SIDES OF MASONRY OPENINGS (DOOR JAMBS, ETC.) WALL ENDS
- 13. PROVIDE CONTROL JOINTS IN MASONRY WALLS AT A MAXIMUM SPACING OF 3 TIMES HEIGHT. CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 15 FEET FROM ALL (SUBMIT CONTROL JOINT PLAN TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION
- 14. CONTROL JOINTS SHALL BE PLACED AT ALL CHANGES IN MASONRY WALL HEIGHT AN MASONRY WALL THICKNESS.
- 15. ALL MASONRY WALLS SHALL HAVE #4 @ 32"O.C. VERTICAL REINFORCEMENT.
- AISI COLD FORMED FRAMING NOTES:
- METAL STUD SIZES SHOWN ON PLANS AND DETAILS ARE BASED ON CLARKDIETRICH 1 GALVANIZED STEEL STUDS. ALL FRAMING MATERIALS AND CONNECTIONS SHALL BE EQUIVALENT TO THOSE MANUFACTURED BY CLARKDIETRICH. ALL STUDS AND THEIR CONNECTIONS SHALL BE GALVANIZED AND SHALL COMPLY WITH THE REQUIREMENT SPECIFICATION FOR THE DESIGN OF COLD FORM STEEL STRUCTURAL MEMBERS, LAT EDITION.
- ALL METAL STUDS SHALL HAVE A MIN. YIELD STRENGTH OF 50 KSI. PROVIDE GALVANIZ STUDS WHERE EXPOSED TO THE EXTERIOR.
- STEEL STUDS: MANUFACTURER'S STANDARD C-SHAPED STEEL STUDS, OF WEB DEPTH 3 INDICATED, PUNCHED, WITH STIFFENED FLANGES, AND AS FOLLOWS: A. LOAD BEARING FRAMING a. MINIMUM BASE-METAL THICKNESS: 16 GA. (54 MILS)
- FLANGE WIDTH: 1-5/8 INCHES. B. NON-LOAD BEARING FRAMING MINIMUM BASE-METAL THICKNESS: 20 GA. (33 MILS)
- FLANGE WIDTH: 1-5/8 INCHES. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS, ALIGN TRACKS ACCURATELY 4 SECURELY ANCHOR TO SUPPORTING STRUCTURE AT EACH STUD LOCATION.
- FASTEN BOTH FLANGES OF STUDS TO BOTTOM TRACK UNLESS OTHERWISE INDICATE STUDS AS FOLLOWS: A. STUD SPACING: 16" O.C. MAX.
- 6. SET STUDS PLUMB, EXCEPT AS NEEDED FOR DIAGONAL BRACING OR REQUIRED FOR PLUMB WALLS OR WARPED SURFACES AND SIMILAR REQUIREMENTS.
- ISOLATE NON-LOAD-BEARING STEEL FRAMING FROM BUILDING STRUCTURE TO PREVE 7
- TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT. BRIDGE ALL JOISTS, RAFTERS AND WALL STUDS WITH BRIDGING CHANNEL AT 4'-0" ON 8
- MAXIMUM. SCREW OR WELD BOTTOM OF BRIDGING AFTER SHEATHING IS IN PLACE. 9. ALL CLIP AND UTILITY ANGLES SHALL BE THE SAME GAUGE AS THE MEMBERS BEING CONNECTED. IF THE MEMBERS BEING CONNECTED ARE DIFFERENT GAUGES, ANGLE BE A MINIMUM OF THE THINNER GAUGE.
- 10. FOR ALL OPENINGS LARGER THAN JOIST FRAMING, FRAME WITH DOUBLE-HEADERS / TRIMMERS AROUND OPENINGS. PROVIDE DOUBLE BOX JOISTS AROUND PARTITION V PARALLEL TO JOISTS.
- 11. SHOP DRAWINGS OF ALL LIGHT GAUGE METAL FRAMING SHALL BE SUBMITTED TO TH ARCHITECT/ENGINEER PRIOR TO MANUFACTURING.
- 12. IF BASIS OF DESIGN MANUFACTURER'S LIGHT GAUGE FRAMING IS NOT USED, CONTRA SHALL PROVIDE ALL SPECIFICATIONS AND MATERIAL PROPERTIES FOR THE SELECTE GAUGE MANUFACTURER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF CONST
- WELDING NOTES:
- 1. ALL WELDING SHALL BE CONDUCTED BY CERTIFIED WELDERS IN ACCORDANCE WITH LATEST EDITION FOR STRUCTURAL STEEL AND AWS D1.3, LATEST EDITION FOR STRU SHEET STEEL.
- THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR PROTECTING EXISTING EX 2 MATERIAL, BUILDING STRUCTURE, AND BUILDING COMPONENTS DURING ANY FIELD \ OPERATIONS.
- 3. WELDS OF HEADED STUDS SHALL MATCH STRENGTH OF STUDS.

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SYSTEMS INCLUDING MATERIALS, INSTALLATION, WORKMANSH FABRICATION, ASSEMBLY, ERECTION, INSPECTION, QUALITY CONTROL, AND TESTING PROVIDED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, LATEST I UNLESS OTHERWISE NOTED, ALL STEEL SHALL CONFORM TO ASTM A992 WITH A MININ 2
- STRENGTH OF 50 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE MINIMUM YIELD STRENGTH OF 46 KSI. ANGLES, CHANNELS, AND PLATES SHALL CONFO ASTM A36 WITH A MINIMUM YIELD STRENGTH OF 36 KSI. ALL STEEL SHAPES, BOLTS, WASHES, ETC. USED IN AN EXTERIOR CONDITION SHALL
- DIPPED GALVANZIED. HSS SECTIONS BE VENTED TO ENSURE THE INTERNAL SURFACE COMPLETELY COVERED. ALL HOLES IN STEEL SHALL BE STANDARD SIZE 1/16" LARGER THAN BOLT DIAMETER U 4
- OTHERWISE NOTED. ALL HOLES SHALL BE DRILLED OR PUNCHED. BURNING IS NOT A COLUMN ANCHOR BOLT HOLES MAY BE OVERSIZED.
- COPES SHALL BE PROVIDED WITH 1/2" RADIUS MINIMUM, SMOOTH CORNERS, AND FREE OF NOTCHES. DEPTH AND LENGTH OF COPES SHALL BE AS INDICATED OR SPECIFIED BY DETAILER.
- UNLESS OTHERWISE INDICATED, ALL BOLTS SHALL CONFORM TO ASTM A325, EXCEPT ANCHOR 6. BOLTS SHALL CONFORM TO ASTM F1554 GR. 36. ALL NUTS SHALL CONFORM TO ASTM A563, GRADE AND STYLE FOR APPLICABLE ASTM BOLT STANDARD. ALL WASHERS SHALL CONFORM TO ASTM F844 FOR ASTM A307 BOLTS, AND ASTM F436 FOR ASTM A325 BOLTS. INSTALL 1/4" WEB STIFFENERS ON BOTH SIDES THE BEAM WEB FOR ALL BEAMS RECEIVING A 7
- COLUMN OR BEAM FROM ABOVE OR CONTINUING OVER A COLUMN BELOW. WEB STIFFENERS SHALL BE PLACED DIRECTLY ABOVE / BELOW THE COLUMN.
- STEEL DETAILER SHALL PROVIDE CONNECTION DESIGN IN ACCORDANCE WITH ANSI/AISC 303. DETAILER SHALL SELECT AND COMPLETE CONNECTIONS USING SCHEMATIC DETAILS INDICATED ON PLANS AND ANSI/AISC 360.

	CON	CRETE NOTES:	SPECIAL I	NSPECTIONS:	
'BUILDING AND	1.	CONCRETE SHALL CONFORM TO ACI 211.1, ACI 301, ACI 304R (WHEN PUMPING), AND ACI 318-14. AGGREGATE SHALL CONFORM TO ASTM C33. RANGE OF SLUMP, WATER-TO-CEMENT RATIO, AND AIR ENTRAINMENT SHALL BE IN ACCORDANCE WITH CAST-IN-PLACE CONCRETE SPECIFICATION 033000. SUBMIT COPIES OF TEST REPORTS SHOWING THAT THE MIX HAS BEEN SUCCESSFULLY TESTED TO PRODUCE CONCRETE WITH THE PROPERTIES SPECIFIED. TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONCRETE	AND LOC/ RETAINED PROVIDE AGENCY I RECORDS	IAL INSPECTIONS AL BUILDING COD AND PAID BY TH ALL INFORMATIO MEETS THE APPLI S SHALL BE FILED	ES. ALL IE OWN N AS NI ICABLE WITH 1
	2.	PLACEMENT. CEMENT SHALL CONFORM TO ASTM C150, TYPE I/II AND SHALL HAVE A CURING PERIOD OF NOT LESS THAN 7 DAYS.	YORK ST	NSPECTIONS AND TE BUILDING CO	DE LAT
HALL BE 2000	3.	CONCRETE FLAT WORK SHALL BE WET CURED, USING BURLAP OR COTTON CURING MATS, OR CURED USING ASTM D4397 POLYETHYLENE SHEETING IN ACCORDANCE WITH ASTM C171. WET THE ENTIRE EXPOSED SURFACE OF THE CONCRETE THOROUGHLY WITH A FINE SPRAY OF	SCHEDUL Hours P	ING OF ALL SPEC RIOR TO NEED O	CIAL INS F INSPE
STRENGTH NGTH		WATER AND COVER WITH SHEETING THROUGHOUT THE CURING PERIOD. LAY SHEETING DIRECTLY ON CONCRETE SURFACE. PROVIDE SHEETING NOT LESS THAN 18 INCHES WIDER THAN CONCRETE SURFACE. OVERLAP EDGES 12 INCHES AND CONTINUOUSLY TAPE JOINTS.	ASSOCIA SCHEDUL	TED WITH ADDITIC ED INSPECTIONS NSPECTIONS REC	ONAL S AND R
WITH TOP OF ROSS S AS WELL AS	4.	PUMPING SHALL NOT RESULT IN SEPARATION OR LOSS OF MATERIALS NOR CAUSE INTERRUPTIONS SUFFICIENT TO PERMIT LOSS OF PLASTICITY BETWEEN SUCCESSIVE INCREMENTS. LOSS OF SLUMP IN PUMPING EQUIPMENT SHALL NOT EXCEED 2 INCHES. CONCRETE SHALL NOT BE CONVEYED THROUGH PIPE MADE OF ALUMINUM OR ALUMINUM ALLOY. RAPID CHANGES IN PIPE SIZES SHALL BE AVOIDED. MAXIMUM SIZE OF COURSE AGGREGATE SHALL BE LIMITED TO 33 PERCENT OF THE DIAMETER OF THE PIPE. MAXIMUM SIZE OF WELL ROUNDED AGGREGATE SHALL BE LIMITED TO 40 PERCENT OF THE PIPE DIAMETER. SAMPLES FOR TESTING SHALL BE TAKEN AT BOTH THE POINT OF DELIVERY TO THE PUMP AND	<u>STEEL</u> : 1. 2.	ELE ACC AISC	CIAL IN MENTS CORDAN C 360-1
DF 8" (AS L (16" O.C.). NTELS. EXISTS FOR	5.	AT THE DISCHARGE END. CONCRETE SHALL NOT BE PLACED WHEN WEATHER CONDITIONS PREVENT PROPER PLACEMENT AND CONSOLIDATION INCLUDING PERIODS OF PRECIPITATION. TRANSPORT CONCRETE AS RAPIDLY AS PRACTICABLE TAKING PRECAUTION TO PREVENT SEGREGATION OR LOSS OF INGREDIENTS. PUMPING IN ACCORDANCE WITH ACI 304 SHALL BE PERMITTED. DO NOT EXCEED A FREE VERTICAL DROP OF 3 FEET FROM THE POINT OF DISCHARGE. PLACE CONCRETE IN ONE CONTINUOUS OPERATIONS FROM ONE SIDE OF SLAB TO THE OTHER.	<u>CONCRET</u> 1. 2. 3.	A. SPE FOF WIT <u>E</u> : PERIODIC II PERIODIC II INSPECTIOI	CIAL IN COLD H THE NSPEC
ACES. F THE WALL	6.	POSITION GRADE STAKES AT 12 FEET ON CENTER MAXIMUM IN EACH DIRECTION. REINFORCING BARS SHALL CONFORM TO ASTM A615 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60 KSI. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A1064. REINFORCEMENT SHALL NOT CONTAIN RUST, SCALE, OIL, GREASE, CLAY, OR FOREIGN SUBSTANCES THAT WOULD REDUCE THE CONCRETE BONDING STRENGTH. REMOVE LOOSE RUST PRIOR TO PLACEMENT OF REINFORCEMENT.	4. 5. 6.	B. PER DEF PERIODIC V PRIOR TO C PERFORM S CONTINUOU	CONCRE SLUMP, JS INSF
es the Wall L Corners, DN.	7. 8.	REINFORCEMENT SPLICES SHALL BE KEPT TO A PRACTICAL MINIMUM. UNLESS OTHERWISE INDICATED, MINIMUM LAP SPLICE LENGTH PER LAP SPLICE TABLE ON SHEET S-501. PROVIDE MINIMUM 2" OF CONCRETE COVER FOR ALL REINFORCING STEEL UNLESS OTHERWISE INDICATED.	7. 8. <u>MASONR\</u> 1.	TECHNIQUE PERIODIC II CONCRETE <u>(</u> : SPECIAL IN:	ES. NSPEC ⁻ MEMBI SPECTI
AND	9. 10.	CONCRETE FOOTINGS AND MAT FOUNDATIONS SHALL BE PLACED MONOLITHICALLY WITH THE EXCEPTION THAT VERTICAL CONSTRUCTION JOINTS WILL BE ALLOWED IF EPOXY BONDING COMPOUND IS APPLIED TO THE ROUGHENED SURFACE OF THE HARDENED CONCRETE. INTERIOR SLABS: THE CONTRACTOR SHALL PROVIDE CONTRACTION JOINTS AS INDICATED.	<u>SOILS</u> : 1.		IS 602.
H BE SIR NTS OF AISI	11.	JOINTS MAY BE SAWCUT OR CUT WITH A JOINTING TOOL. SAWED JOINTS SHALL BE COMPLETED WITHIN 4 TO 12 HOURS AFTER PLACEMENT OF CONCRETE. JOINTS SHALL INTERSECT WITH THE CORNERS OF ISOLATION JOINT AT COLUMN LOCATIONS, IF ANY ARE PRESENT, AND BE SPACED A MAXIMUM OF 15 FEET ON CENTER, UNLESS NOTED OTHERWISE. REINFORCEMENT SUPPORTS SHALL BE CONCRETE OR OTHER NON-CORRODIBLE MATERIAL	2.	B. DEN C. LIFT D. COM PERIODIC II A. MAT	NSITIES THICK MPACTI
ATEST		HAVING A COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN THE COMPRESSIVE STRENGTH OF THE CONCRETE BEING PLACED.		B. EXC MAT	CAVATION TERIAL
PTHS	12. 13.	PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS. EPOXY BONDING COMPOUND SHALL BE USED ON ALL CONTACTING SURFACES BETWEEN EXISTING CONCRETE AND NEW CONCRETE. EPOXY BONDING COMPOUND SHALL CONFORM TO ASTM C881 TYPE II, CLASS C, GRADE 1 OR 2 FOR HORIZONTAL SURFACES, GRADE 3 FOR VERTICAL SURFACES. THOROUGHLY CLEAN AND ROUGHEN EXISTING SURFACES PRIOR TO PLACEMENT. DO NOT ALLOW COMPOUND TO HARDEN PRIOR TO CONCRETE PLACEMENT.	3.	THE APPRO SEPTEMBEI	R 21, 20
ELY AND	14.	PLACE, CONSOLIDATE AND IMMEDIATELY STRIKE OFF CONCRETE TO OBTAIN PROPER CONTOUR GRADE AND ELEVATION BEFORE BLEEDWATER APPEARS. PERMIT CONCRETE TO ATTAIN A SET SUFFICIENT FOR FLOATING AND SUPPORTING THE WEIGHT OF THE FINISHER AND EQUIPMENT. IF BLEEDWATER IS PRESENT PRIOR TO FLOATING THE SURFACE, DRAG THE EXCESS WATER OFF OR REMOVE BY ABSORPTION WITH POROUS MATERIALS. DO NOT USE DRY CEMENT TO ABSORB BLEEDWATER.	THE STRU WITH NYS <u>FLOOR LI'</u> FIRST FLO		HEREO
ATED. SPACE	15.	UNLESS OTHERWISE NOTED, ALL CONCRETE CONSTRUCTION SHALL MEET THE SPECIFIED TOLERANCES OF ACI 117. TOP ELEVATIONS SHALL MATCH THE SPECIFIED ELEVATIONS WITHIN A TOLERANCE OF $\pm 1/4$ "	CLASSRO OFFICES	OMS = 40 PSF	,
OR NON-	16.	THE REQUIREMENTS OF ACI 302.1R SHALL BE IN EFFECT FOR THE CONSTRUCTION OF ALL SLABS ON GROUND.	DISTRIBU	ROOF LIVE LOAD TED LOAD = 35 PS RATED LOAD = 30	SF
EVENT ON CENTER E.	17. 18.	NO CONCRETE SHALL BE PLACED UNTIL ALL EMBEDDED ITEMS (I.E. PROCESS, ELECTRICAL, MECHANICAL, ETC) HAVE BEEN SET. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES. ALL BAR PLACING AND BENDING SHALL BE IN ACCORDANCE WITH ACI 315.	<u>ROOF SN</u> GROUND FLAT ROO) = 35 P 2/f) = 29.
G LES SHALL S AND N WALLS	19.	PERFORM COMPRESSIVE TESTS IN ACCORDANCE WITH ASTM C39. OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD., PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. TAKE PRECAUTIONS TO PREVENT EVAPORATION AND LOSS OF WATER FROM SPECIMENS. TEST ONE CYLINDER AT 7 DAYS, AND TWO (THREE FOR 4"x8" CYLINDERS) CYLINDERS AT 28 DAYS AND HOLD ONE IN RESERVE. PERFORM SLUMP TESTS IN ACCORDANCE WITH ASTM C143. PERFORM AIR CONTENT TESTS IN ACCORDANCE WITH ASTM C173 OR ASTM C231. SUBMIT ALL TEST DATA	THERMAL SLOPE FA DRIFT SU WIDTH OF	PORTANCE FACTO FACTOR (C/t) = 1. CTOR (C/s) = .97 RCHARGE (P/d) = DRIFT (w) = 12.35 D: ND SPEED = 120 M	.1 17.3 PS 5 FT
THE IRACTOR ITED LIGHT STRUCTION.	20.	TO THE ENGINEER. CONSOLIDATE CONCRETE WITH HIGH FREQUENCY, INTERNAL, MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND SPADING AND TAMPING. FURNISH A SPARE VIBRATOR ON THE JOB SITE WHENEVER CONCRETE IS PLACED. OPERATE VIBRATORS WITH VIBRATORY ELEMENT SUBMERGED IN THE CONCRETE, WITH A MINIMUM FREQUENCY OF NOT LESS THAN 6000 IMPULSES PER MINUTE WHEN SUBMERGED. INSERT AND WITHDRAW VIBRATORS AT INTERVALS APPROXIMATELY 18 INCHES APART.	WIND EXF WIND DIR TOPOGRA GUST FAC ENCLOSU	CATEGORY = RIS POSURE = B ECTIONALITY FAC APHIC FACTOR = P CTOR = 0.85 IRE CLASSIFICATI BLE. INTERNAL PR	CTOR = <zt=1.0 ON = E</zt=1.0
TH AWS D1.1, RUCTURAL	21.	ELASTOMERIC JOINT SEALANT SHALL CONFORM TO ASTM C920, TYPE S, GRADE P, CLASS 25.		ENTS & CLADDING	<u> PRES</u>
EQUIPMENT,	<u>PREC</u> 1.	CAST CONCRETE NOTES: PRECAST PLANK & STAIRS SHOWN AS CONCEPTUAL.	ZONE	< 10 SQ. FT.	< 20
D WELDING	2.	PRECAST PLANK & STAIRS TO BE DESIGNED AND DETAILED TO SUPPORT THE PROVIDED LOADS IN THE STRUCTURAL PROVISIONS AND SHALL ACCOMMODATE THE GEOMETRY INDICATED ON	1'	9.35/-21.093 9.35/-36.757	8.00
	3.	THE PLANS. CONTRACTOR TO SUBMIT SIGNED AND SEALS (NY) PRECAST SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO FABRICATION.	2	9.35/-48.416	8.00
HIP, NG SHALL BE	4.	CONNECTIONS BETWEEN PRECAST STAIRS AND PLANK TO BE PROVIDED BY MANUFACTURER.	3	9.35/-66.038	8.00
INIMUM YIELD	5.	THICKNESS OF PRECAST UNITS SHOWN ON PLANS IS CONCEPTUAL, ACTUAL THICKNESS TO BE AS DETERMINED BY THE PRECAST DESIGNER.	4	23.051/-25.009	17.36
DE C, WITH A NFORM TO	6. 7.	ALL WALKING SURFACES SHALL BE ANTI-SLIP. ALL EXPOSED SURFACES SHALL BE SMOOTH AND FREE OF BLEMISHES, FINISHED TO GRADE A	5	23.051/-30.883	17.36
LL BE HOT ACES ARE	8. 9.	COMMERCIAL FINISH. PRECAST COLOR PER OWNER/ARCH. PLANKS TO BE PROVIDED W/ EMBEDDED STEEL PLATES/TABS SUITABLE FOR WELDED	FF	LUS AND MINUS S ROM THE PROJEC IND PRESSURES	TED SU

D LOCAL BU TAINED AND OVIDE ALL I ENCY MEET CORDS SHA ECIAL INSPE	NSPECTIONS LISTED ARE IN ADDITION TO ALL OTHER INSPECTIONS REQUIRED BY STATE JILDING CODES. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN AGENCY O PAID BY THE OWNER OR OWNER'S REPRESENTATIVE. THE APPROVED AGENCY SHALL NFORMATION AS NECESSARY FOR THE BUILDING OFFICIAL TO DETERMINE THAT THE 'S THE APPLICABLE REQUIREMENTS. COPIES OF NECESSARY TEST AND INSPECTION ALL BE FILED WITH THE BUILDING OFFICIAL AND REGISTERED DESIGN PROFESSIONAL. ALL ECTIONS AND REPORTS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE 2020 NEW BUILDING CODE LATEST REVISION.
HEDULING	IS RESPONSIBLE FOR COORDINATION WITH OWNER'S DESIGNATED INSPECTOR FOR OF ALL SPECIAL INSPECTIONS. CONTRACTOR SHALL NOTIFY INSPECTOR MINIMUM 48 TO NEED OF INSPECTION.
SOCIATED	ESERVES THE RIGHT TO BACK CHARGE THE CONTRACTOR FOR ANY COSTS NITH ADDITIONAL SPECIAL INSPECTIONS REQUIRED DUE TO CANCELLATION OF NSPECTIONS AND RE-INSPECTION OF PREVIOUSLY FAILED INSPECTIONS.
ECIAL INSPE	ECTIONS REQUIRED INCLUDE BUT ARE NOT LIMITED TO:
<u>EEL</u> :	
1.	STRUCTURAL STEEL: A. SPECIAL INSPECTIONS 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 360-16.
2.	COLD-FORMED STEEL DECK: A. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.
NCRETE:	
1.	PERIODIC INSPECTION OF REINFORCING STEEL.
2.	PERIODIC INSPECTION OF ANCHORS CAST IN CONCRETE.
3.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE. A. CONTINUOUS INSPECTION OF ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.
	B. PERIODIC INSPECTION OF MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3.A.
4.	PERIODIC VERIFICATION OF DESIGN MIX.
5.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP, AIR, AND TEMPERATURE TESTS; CONTINUOUS.
6.	CONTINUOUS INSPECTION OF PLACEMENT & FOR PROPER APPLICATION TECHNIQUES.
7.	PERIODIC INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.

PERIODIC INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS, OF TH CONCRETE MEMBER BEING FORMED. SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602. CONTINUOUS INSPECTION OF PROPER MATERIALS DENSITIES LIFT THICKNESS DURING PLACEMENT COMPACTION OF CONTROLLED FILL PERIODIC INSPECTION OF MATERIALS BELOW FOOTINGS ADEQUATE TO ACHIEVE THE DESIGN BEARING Α CAPACITY OF 4000 PSF (ALLOWABLE). EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL

CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS SUBGRADE PRIOR TO PLACEMENT OF COMPACTED FILL THE APPROVED SOILS REPORT, PREPARED BY TECTONIC ENGINEERING DATED SEPTEMBER 21, 2023 SHALL BE USED TO DETERMINE COMPLIANCE.

20 STRUCTURAL PROVISIONS:

UCTURE SHOWN HEREON HAS/SHALL BE DESIGNED FOR THE FOLLOWING IN ACCORDANCE SBC 2020:

OR CORRIDORS AND COMMON AREA = 100 PSF RS (ABOVE 1ST FLOOR) = 80 PSF

OMS = 40 PSF = 50 PSF G STAIRS & SEATING = 100 PSF

ROOF LIVE LOAD: TED LOAD = 35 PSF RATED LOAD = 300 LBS

<u>DW LOAD:</u> SNOW LOAD (P/g) = 35 PSF F SNOW LOAD (P/f) = 29.6 PSFPOSURE FACTOR (C/e) = 1.00 ORTANCE FACTOR (I) = 1.10 FACTOR (C/t) = 1.1CTOR (C/s) = .97 RCHARGE (P/d) = 17.3 PSF

ID SPEED = 120 MPH G CATEGORY = RISK CATEGORY III OSURE = B ECTIONALITY FACTOR = Kd=0.85 PHIC FACTOR = Kzt=1.0 CTOR = 0.85 JRE CLASSIFICATION = ENCLOSED

BLE. INTERNAL PRESSURE COEFF. = ±0.18 ENTS & CLADDING PRESSURES:

		WIND P	RESSURES (PSF)		
ZONE	< 10 SQ. FT.	< 20 SQ. FT.	< 50 SQ. FT.	< 100 SQ. FT.	< 500 SQ. F1
1'	9.35/-21.093	8.00/-16.688	8.00/-16.688	8.00/-16.688	8.00/-16.688
1	9.35/-36.757	8.00/-27.104	8.00/-24.528	8.00/-22.624	8.00/-22.624
2	9.35/-48.416	8.00/-35.728	8.00/-32.480	8.00/-30.016	8.00/-30.016
3	9.35/-66.038	8.00/-47.152	8.00/-40.656	8.00/-35.728	8.00/-35.728
4	23.051/-25.009	17.360/-18.928	16.240/-17.808	16/-17.024	16/-17.024
5	23.051/-30.883	17.360/-22.736	16.240/-20.496	16/-18.928	16/-18.928

LUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY ROM THE PROJECTED SURFACE, RESPECTIVELY. ND PRESSURES SHOWN ARE ULTIMATE AND CAN BE CONVERTED TO

RVICE BY MULTIPLYING BY 0.6

OIST NET UPLIFT LOAD COMBINATION IS 0.6D+0.6W. "D" = 12 PSF WIDTH OF PRESSURE COEFFICIENT ZONE, a = 9.6 FT.

SEISMIC DESIGN DATA: OCCUPANCY RISK CATEGORY = III

SEISMIC IMPORTANCE FACTOR = 1.25 SITE CLASS = D (ASSUMED) MAPPED SPECTRAL RESPONSE ACCELERATIONS: S/s = 0.228 AND S/1 = 0.056 SPECTRAL RESPONSE PARAMETERS: S/DS = 0.243 AND S/D1 = 0.089

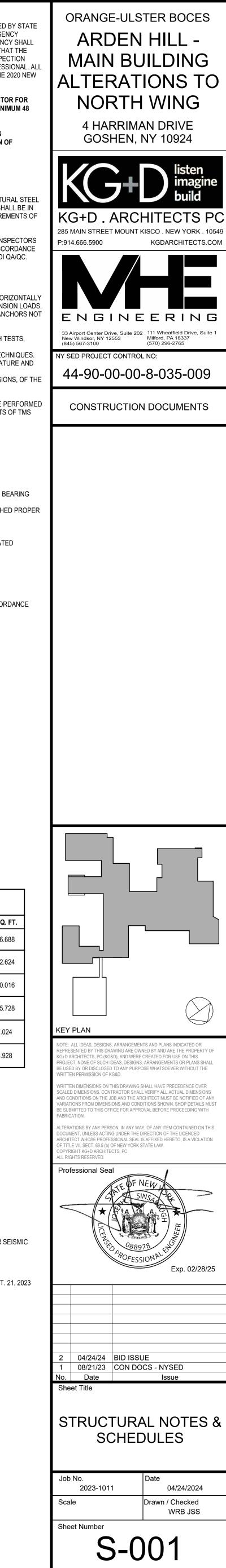
SEISMIC DESIGN CATEGORY = B SEISMIC RESPONSE COEFFICIENT: C/S = 0.0435

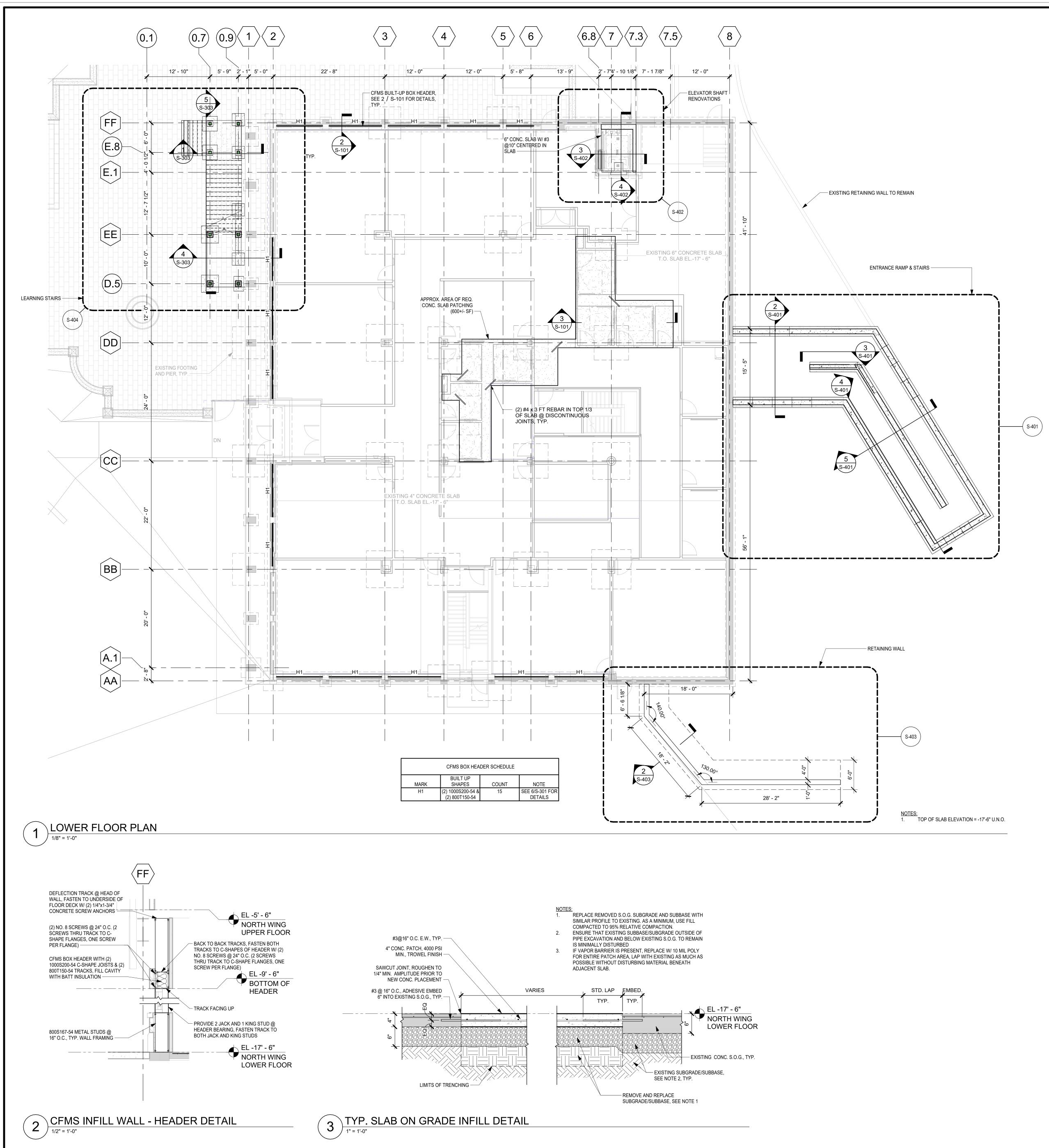
RESPONSE MODIFICATION COEFFICIENT: R = 3 ANALYSIS PROCEDURE = NOT EVALUATED DESIGN BASE SHEAR = N/A

BASIC SEISMIC FORCE RESIST. SYS. = H. STEEL SYSTEMS NOT SPECIFICALLY DETAILS FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMNS

GEOTECHNICAL DESIGN DATA: GEOTECHNICAL EVALUATION REPORT PREPARED BY TECTONIC ENGINEERING DATES SEPT. 21, 2023 ALLOWABLE BEARING STRENGTH = 4000 PSF

ROOF RAIN LOAD DATA: $\overline{\text{RAIN INTENSITY}}$ (i) = 2.22 IN./HR.

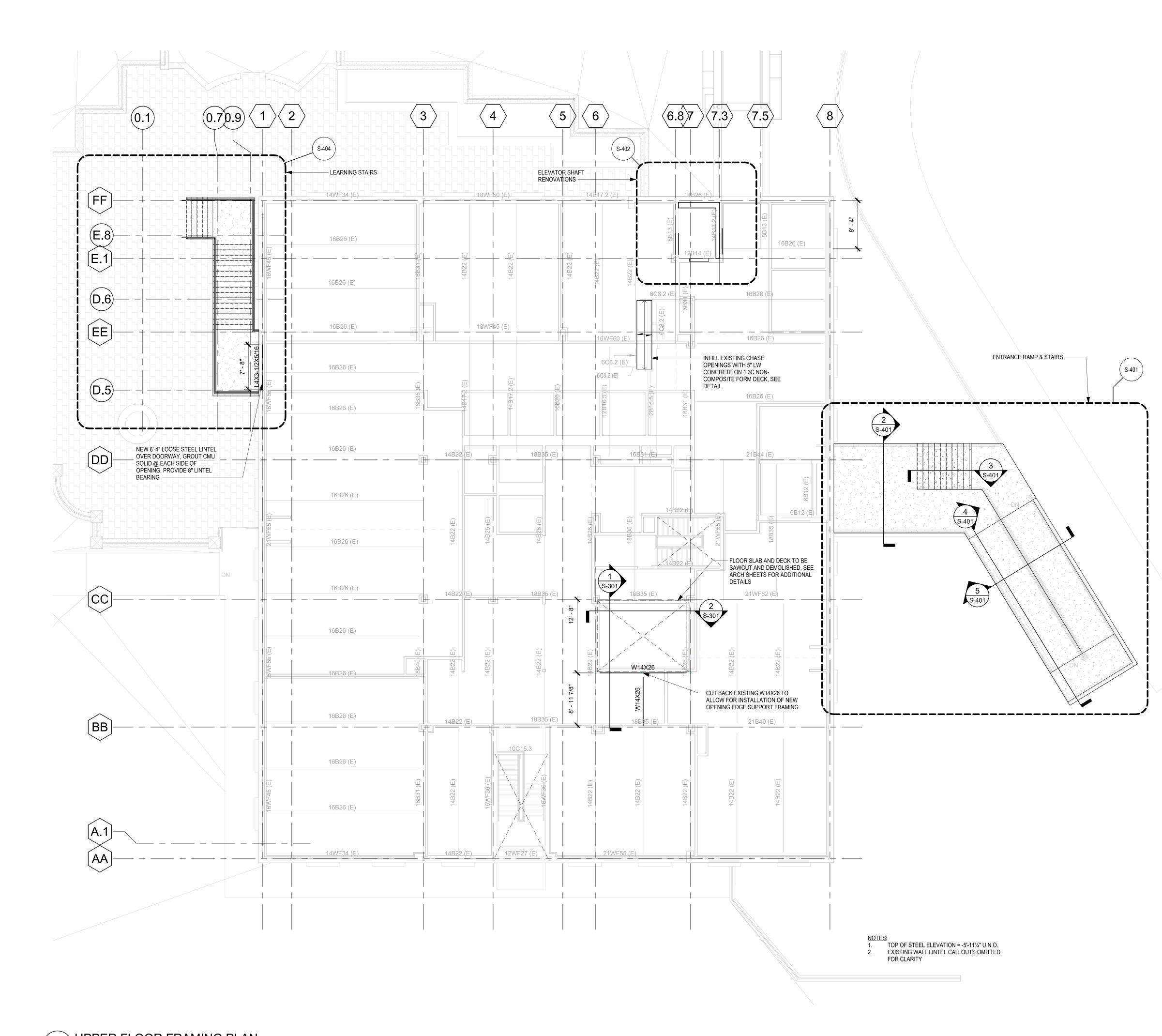




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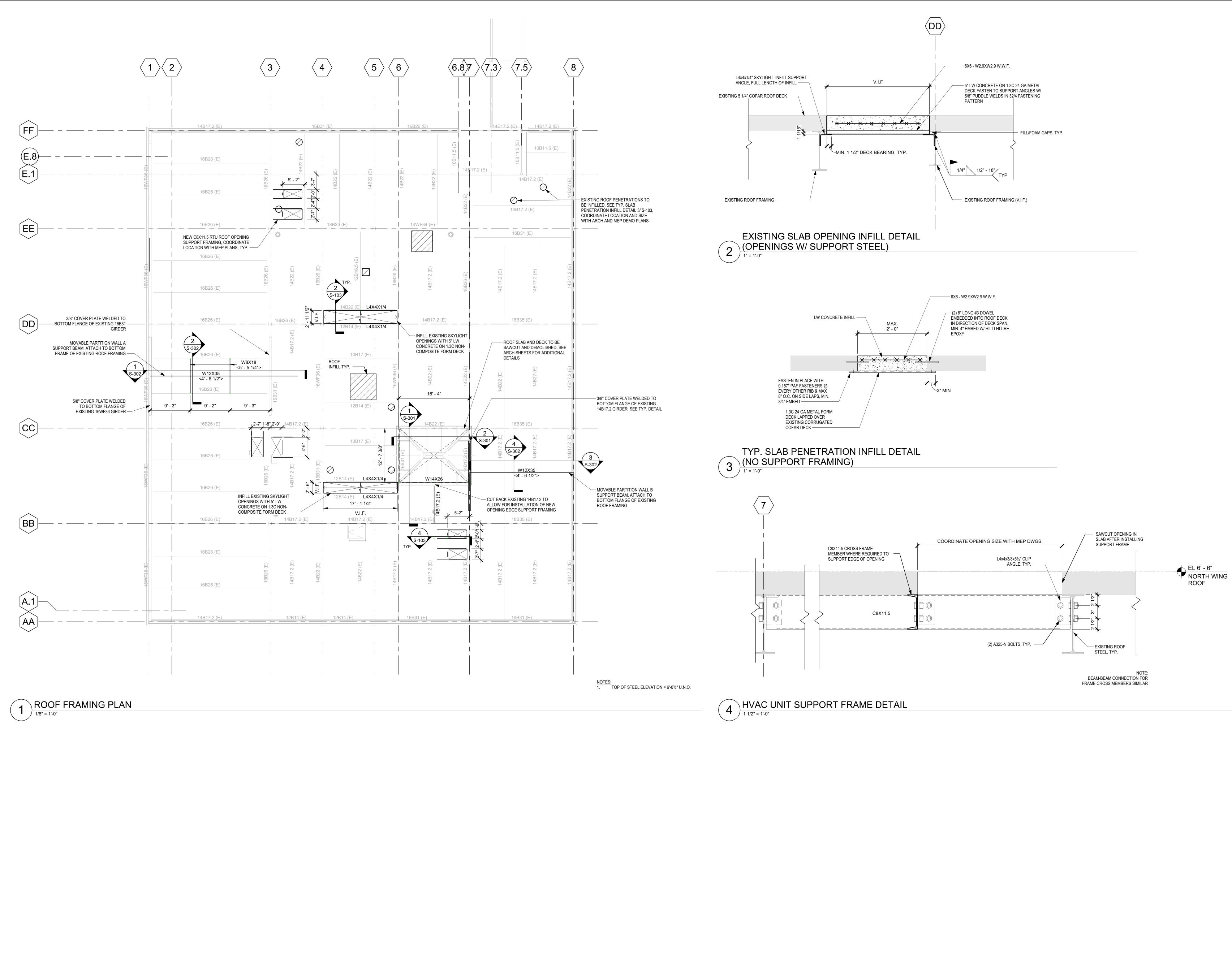




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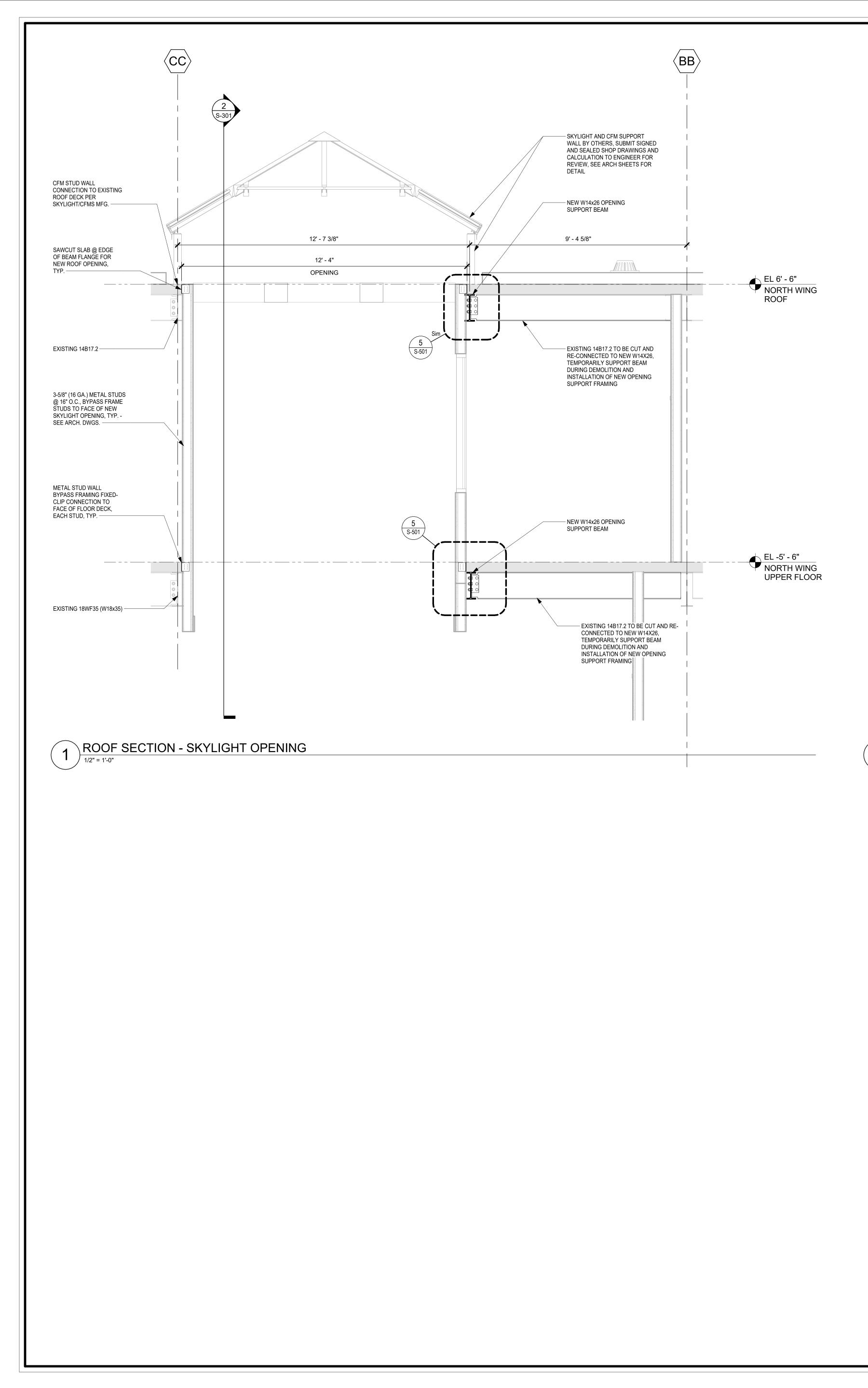


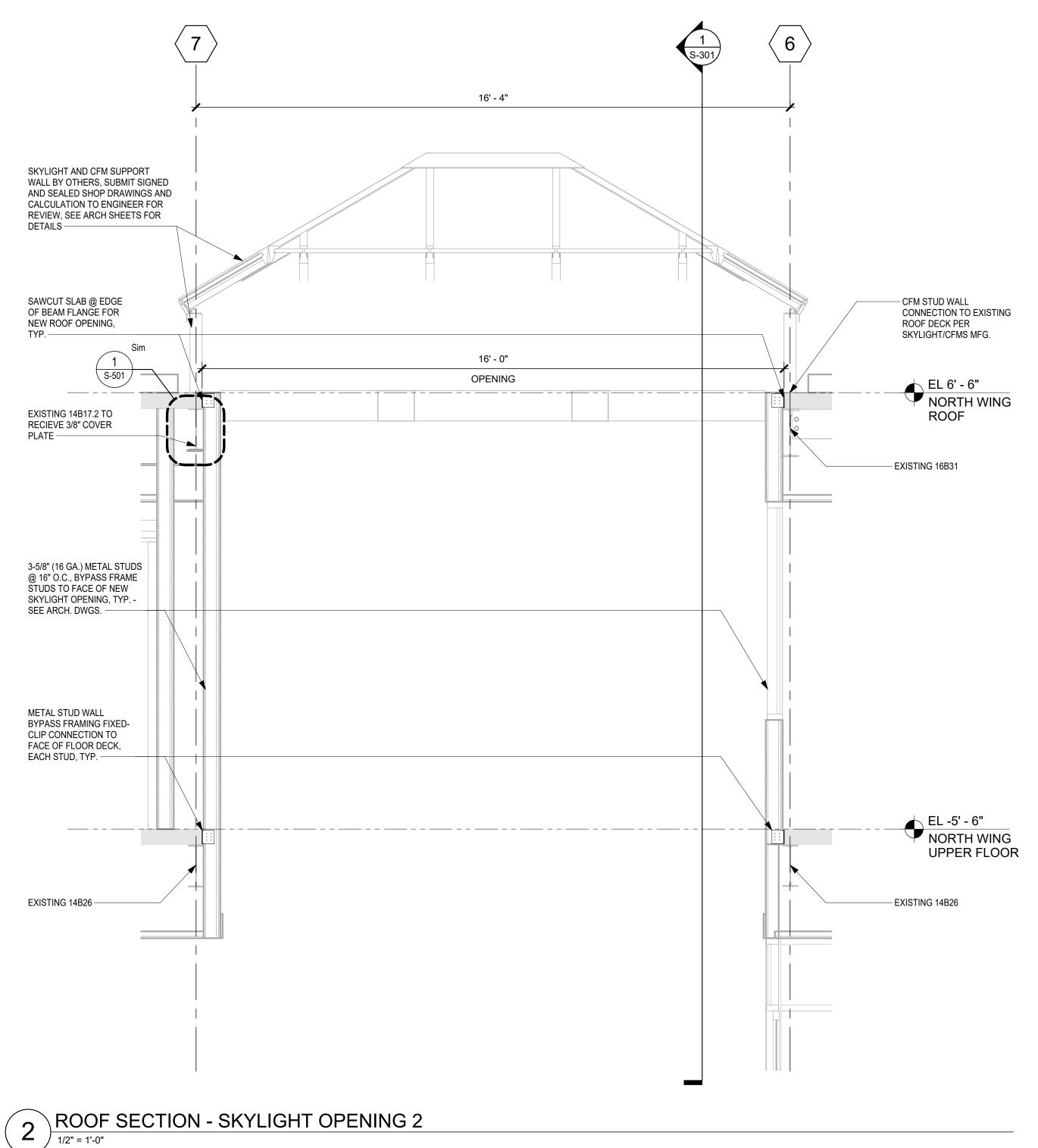
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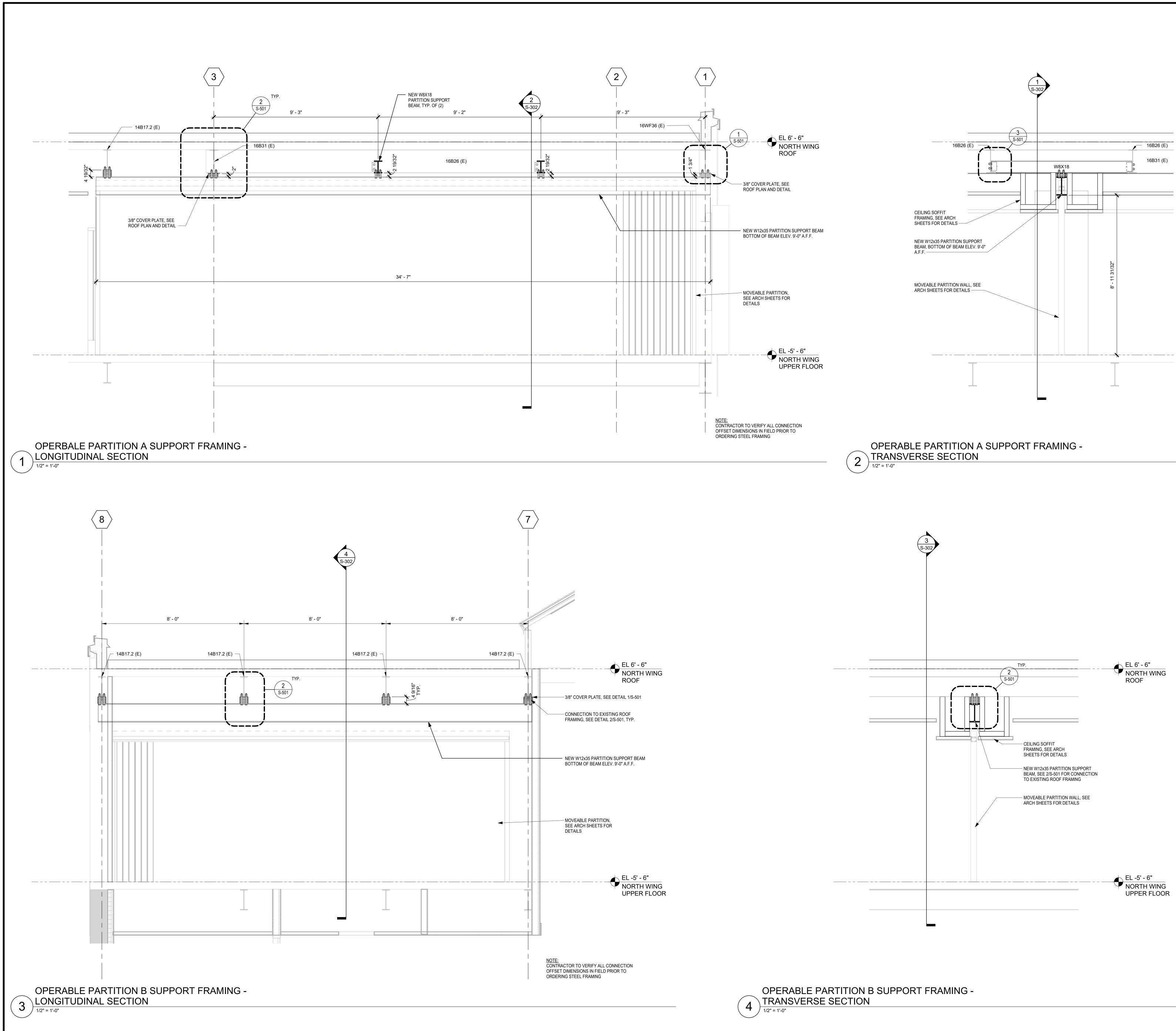


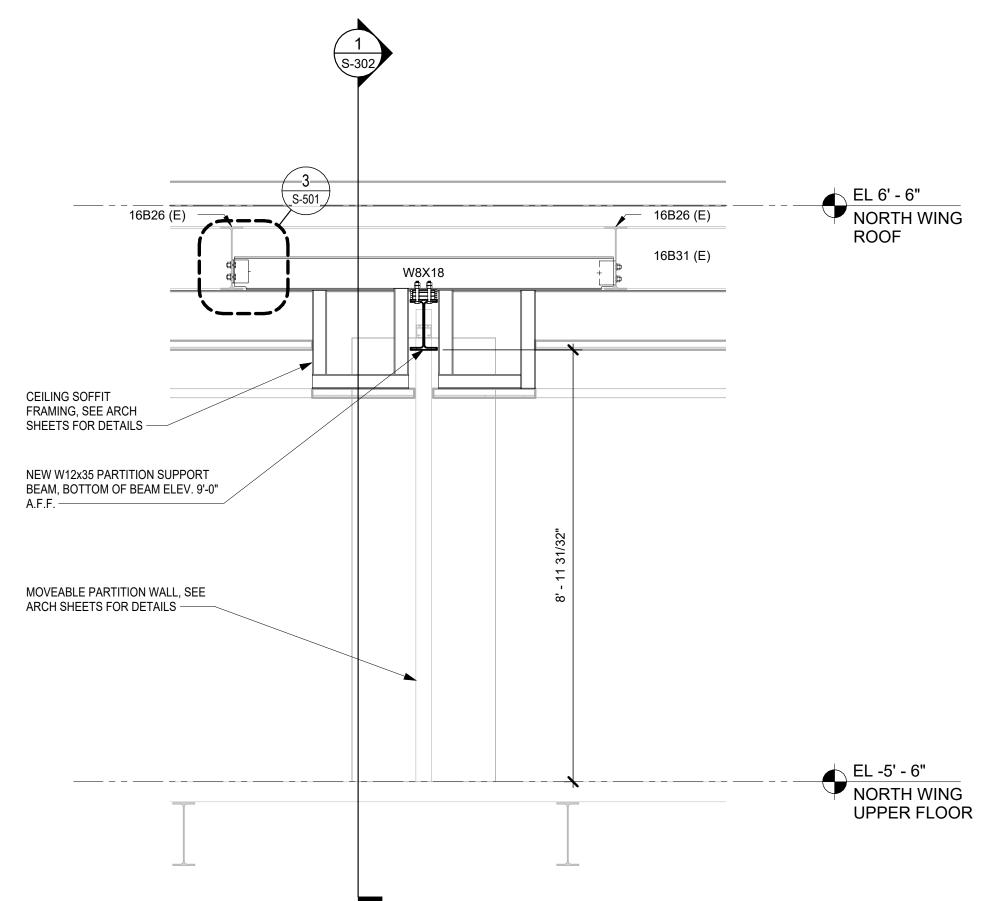


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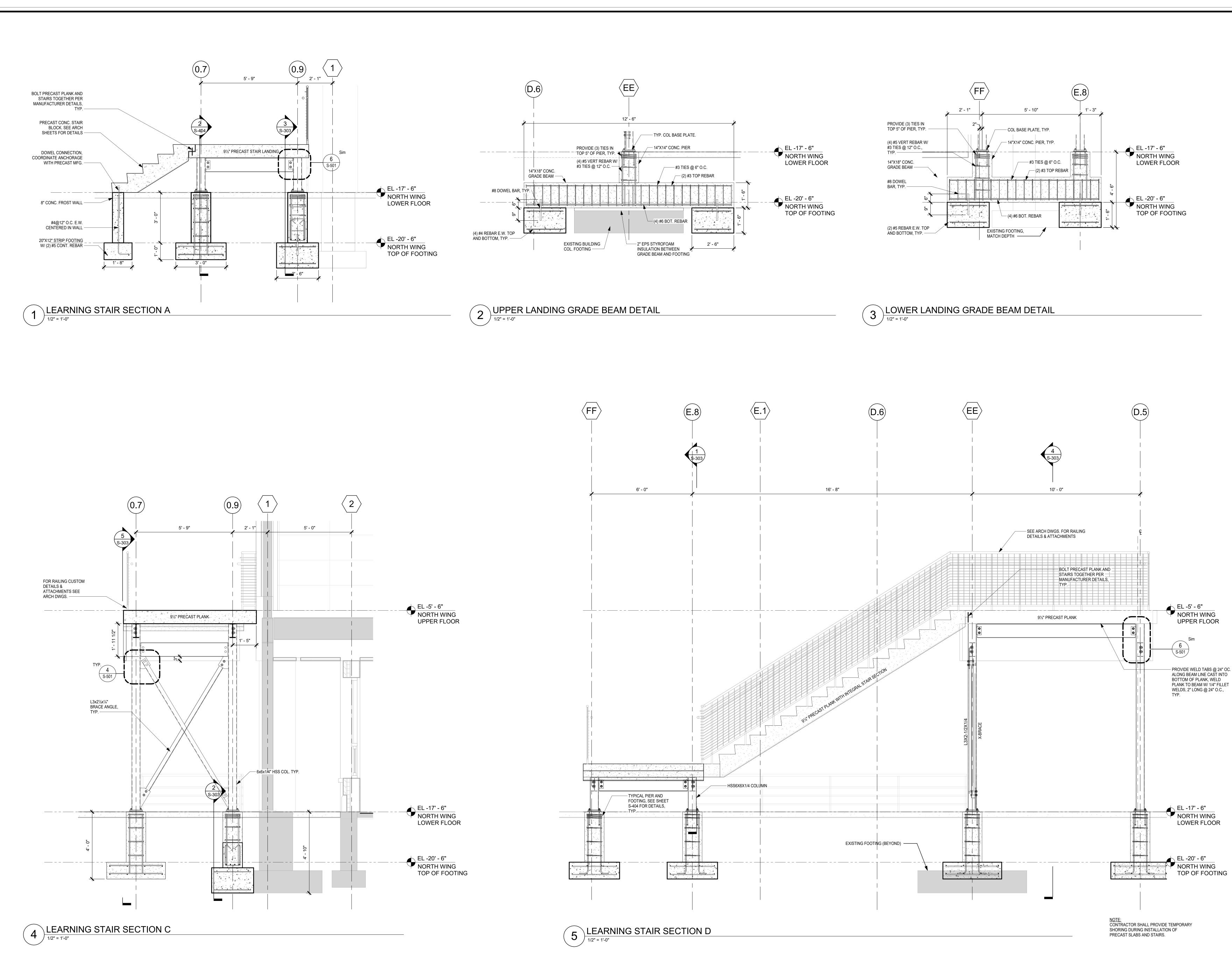




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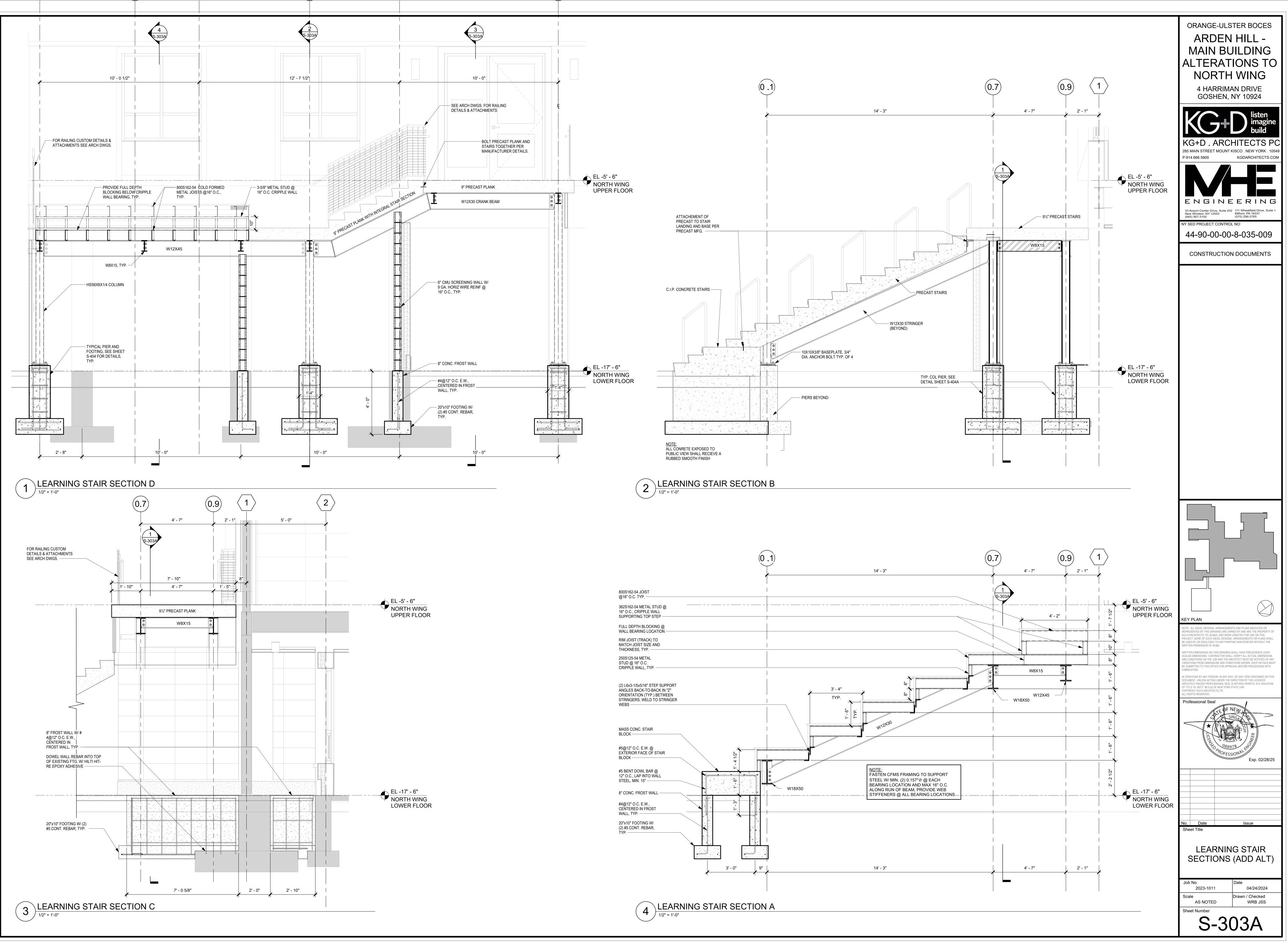
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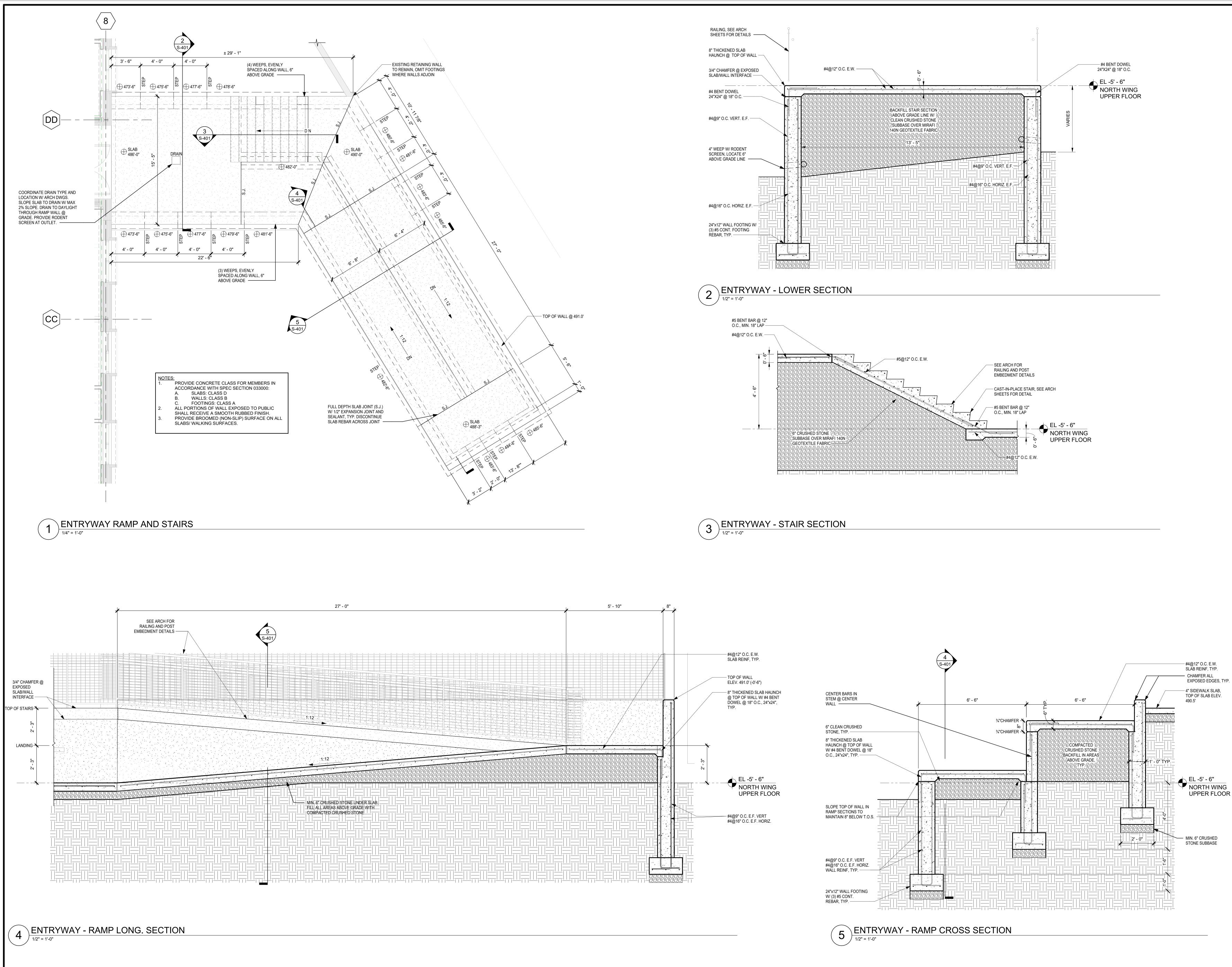


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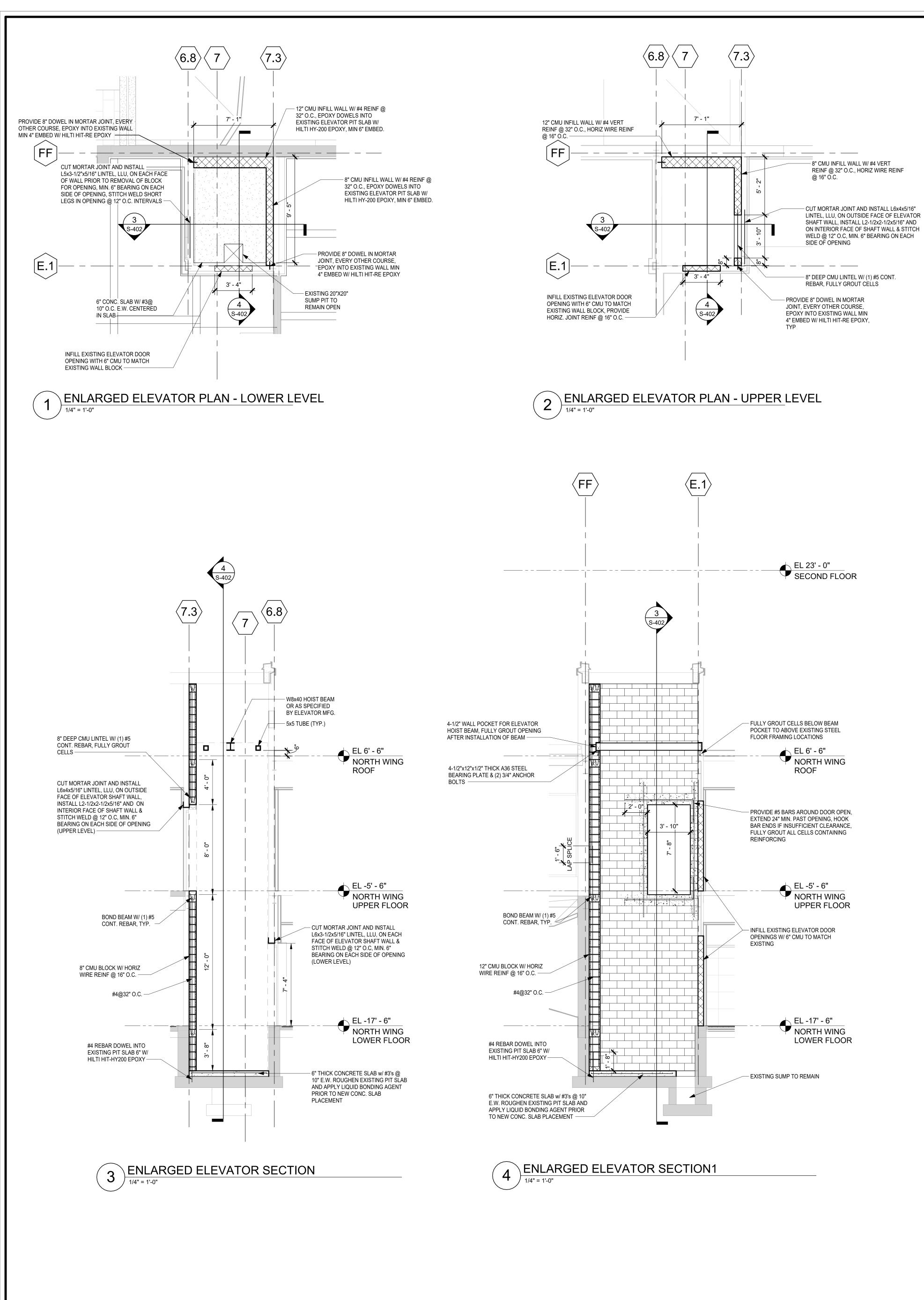




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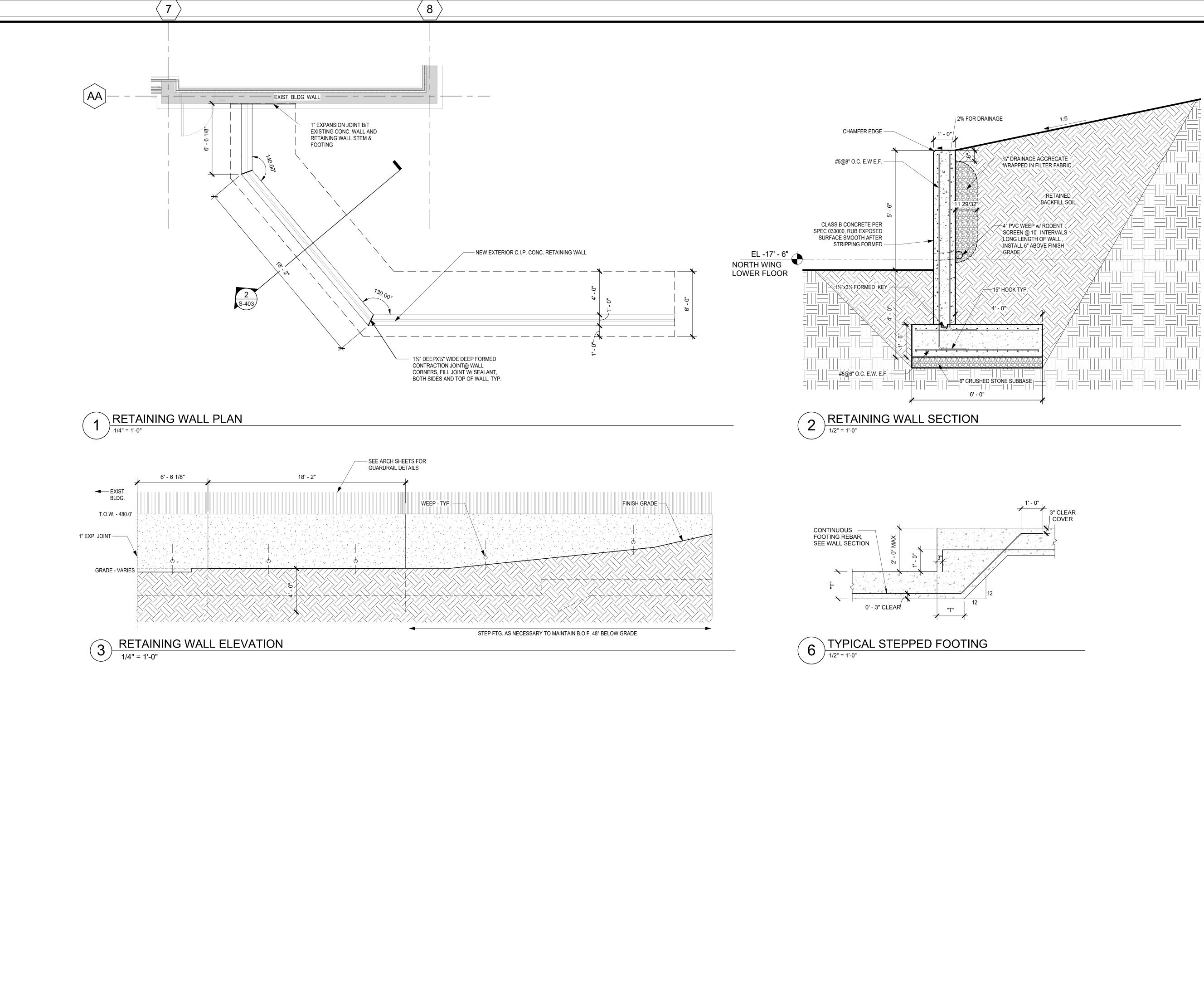
LOCATION	SIZE	LEN
EXISTING 6" CMU SHAFT WALL (LL)	L6x3-1/2x5/16"	5'-

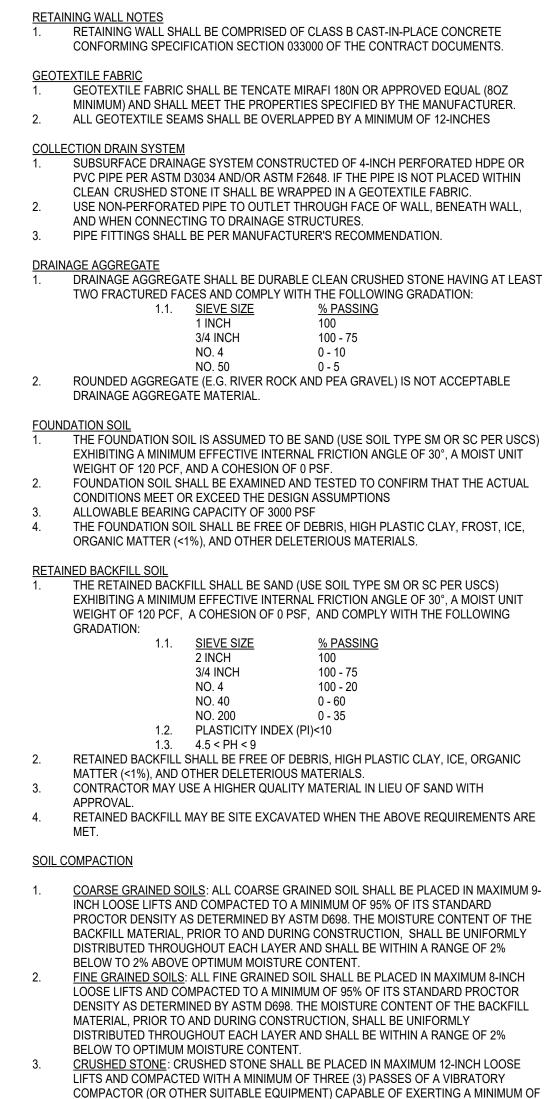
STEEL LINTEL SCHEDULE					
LOCATION	SIZE	LENGTH	QTY		
EXISTING 6" CMU SHAFT WALL (LL)	L6x3-1/2x5/16"	5'-0"	2		
EXISTING 6" CMU SHAFT WALL (UL)	L6x4x5/16"	5'-0"	1		
EXISTING 6" CMU SHAFT WALL (UL)	L2-1/2x2-1/2x5/16"	5'-0"	1		

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 NY SED PROJECT CONTROL NO: 44-90-00-00-8-035-009 CONSTRUCTION DOCUMENTS \leqslant KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF G+D ARCHITECTS, PC (KG&D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHAL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE VRITTEN PERMISSION OF KG&D. VRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN ARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS M BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. ALTERATIONS BY ANY PERSON. IN ANY WAY, OF ANY ITEM CONTAINED ON TH OCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. DPYRIGHT KG+D ARCHITECTS, PC RIGHTS RESERVED. Professional Seal Exp. 02/28/25 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Date Issue Sheet Title ENLARGED ELEVATOR PLANS AND DETAILS Job No. Date 04/24/2024 2023-1011 Drawn / Checked Scale AS NOTED WRB JSS Sheet Number S-402





3,000 LBS OF CENTRIFUGAL FORCE AND TO THE SATISFACTION OF THE GEOTECHNICAL

4. ONLY LIGHTWEIGHT HAND-OPERATED COMPACTION EQUIPMENT SHALL BE USED

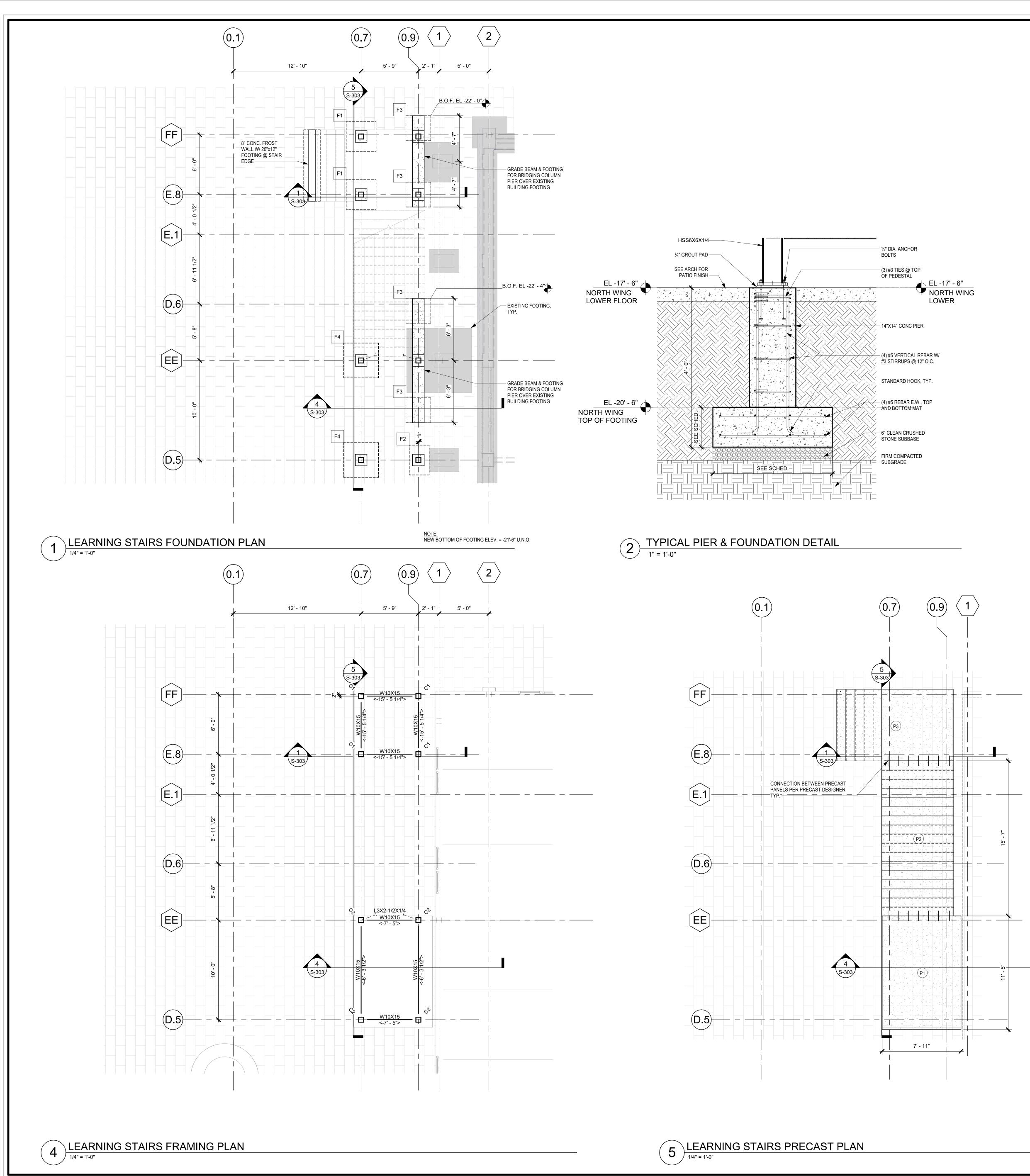
WITHIN 3-FEET OF THE BACK OF WALL DURING CONSTRUCTION.

ENGINEER.

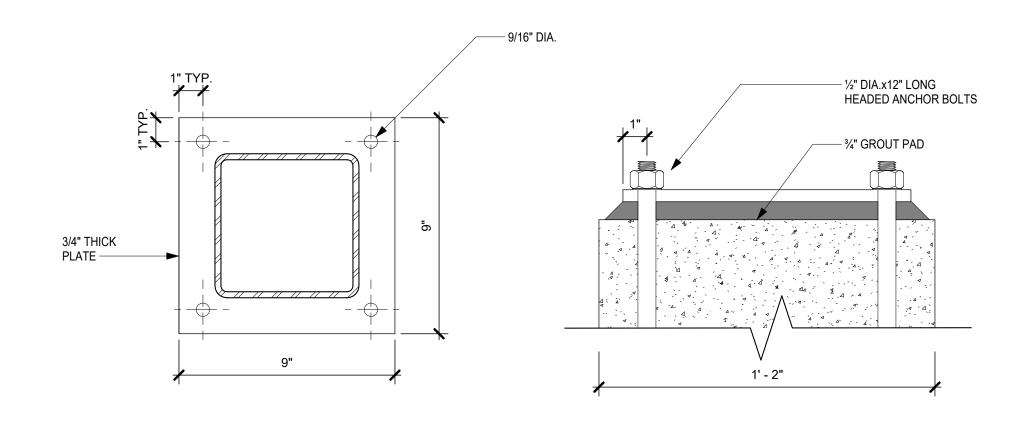
ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM ENGINEERING
 33 Airport Center Drive, Suite 202
 111 Wheatfield Drive, Suite 1

 New Windsor, NY 12553
 Milford, PA 18337

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	COLUMN SCHEDULE						
	COLUMN DESIGNATION		SIZE	LENGT	LENGTH OF COLUMN		
	C-1	HS	6 6x6x¼		2'-0"		
	C-2	HS	6 6x6x¼		11'-1¾"		
	NOTE: LENGTH OF COL. INCLUDES BASEPLATE AND CAP PLATE						
		FC	OTING SC	HEDULE			
FO	OTING DESIGNATION	SIZE LxWxD REINFORCING QU		QUAN	TITY		
	F1	3' x 3' x 12") #5 REBAR, EVENLY SP TOP AND BOT M		2	
	F2	3' x 2' x 12"	(3	3) #5 REBAR, EVENLY SP TOP AND BOT M		1	
	F3	2.5' x 2.5' x 1	8" (4) #4 REBAR, EVENLY SP TOP AND BOT M		4	
	F4	3.5' x 3.5' x 1	2" (4) #5 REBAR, EVENLY SP TOP AND BOT M		2	



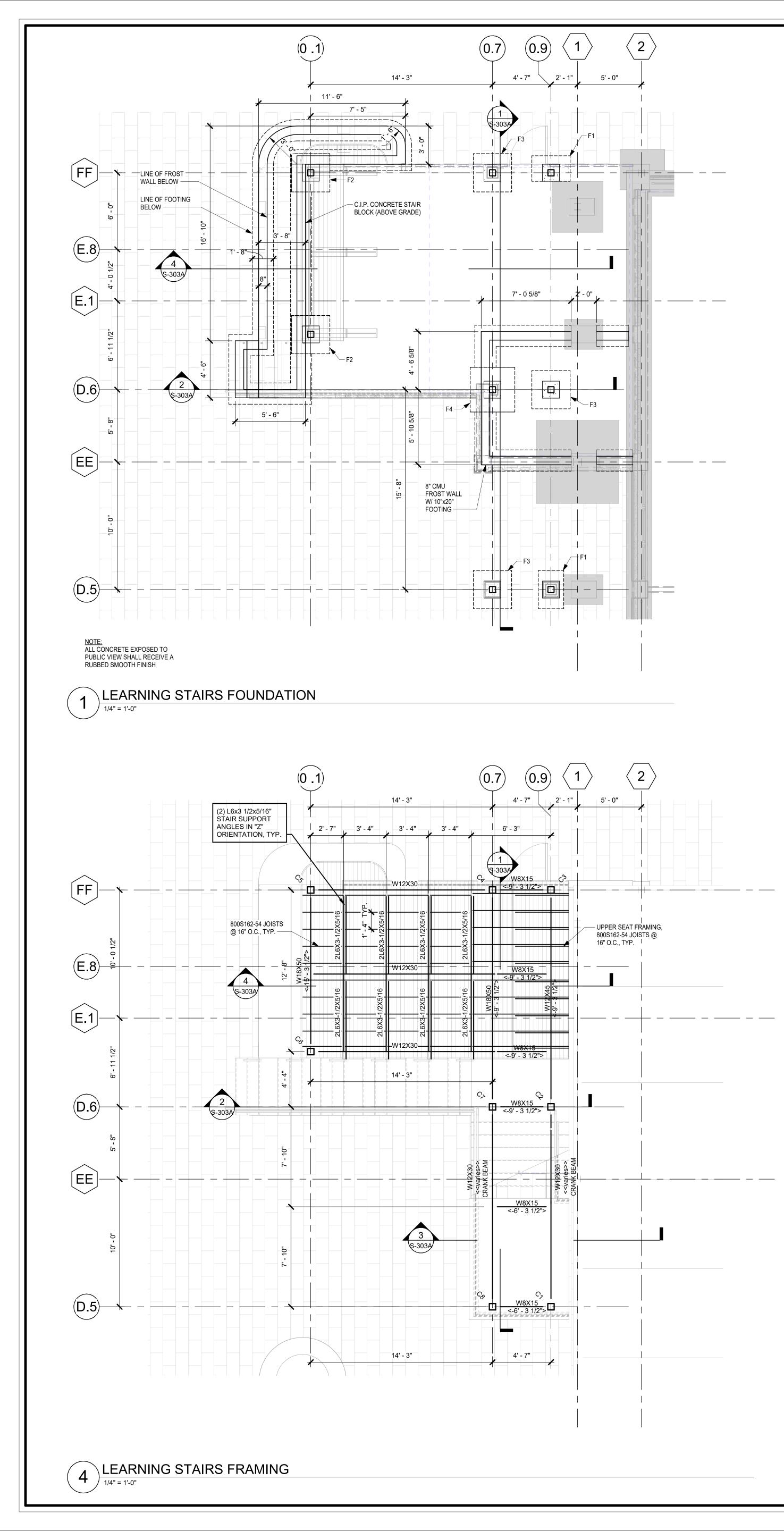
3 BASE PLATE DETAIL 3" = 1'-0"

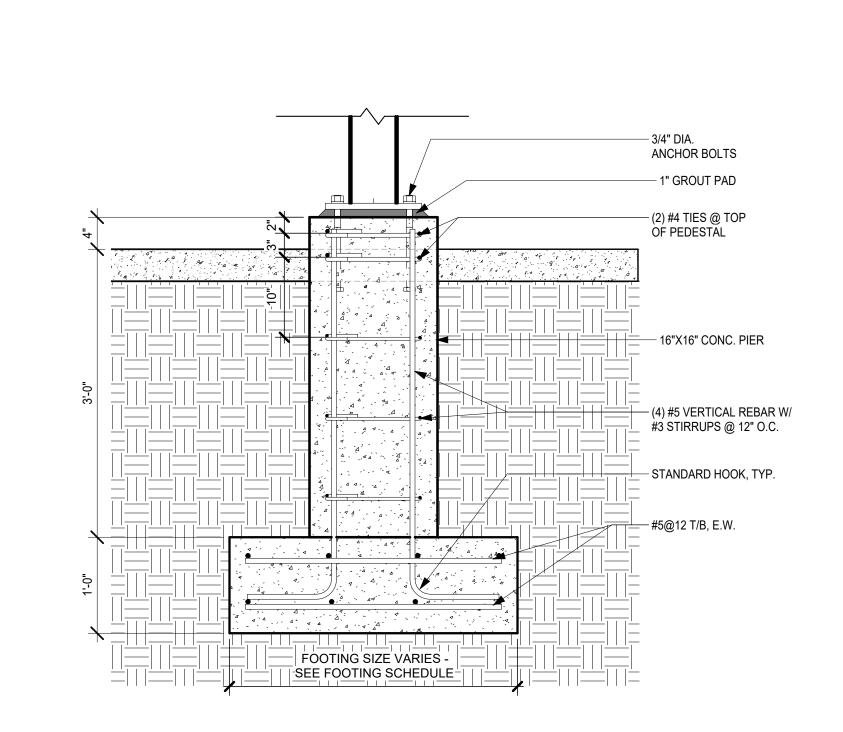
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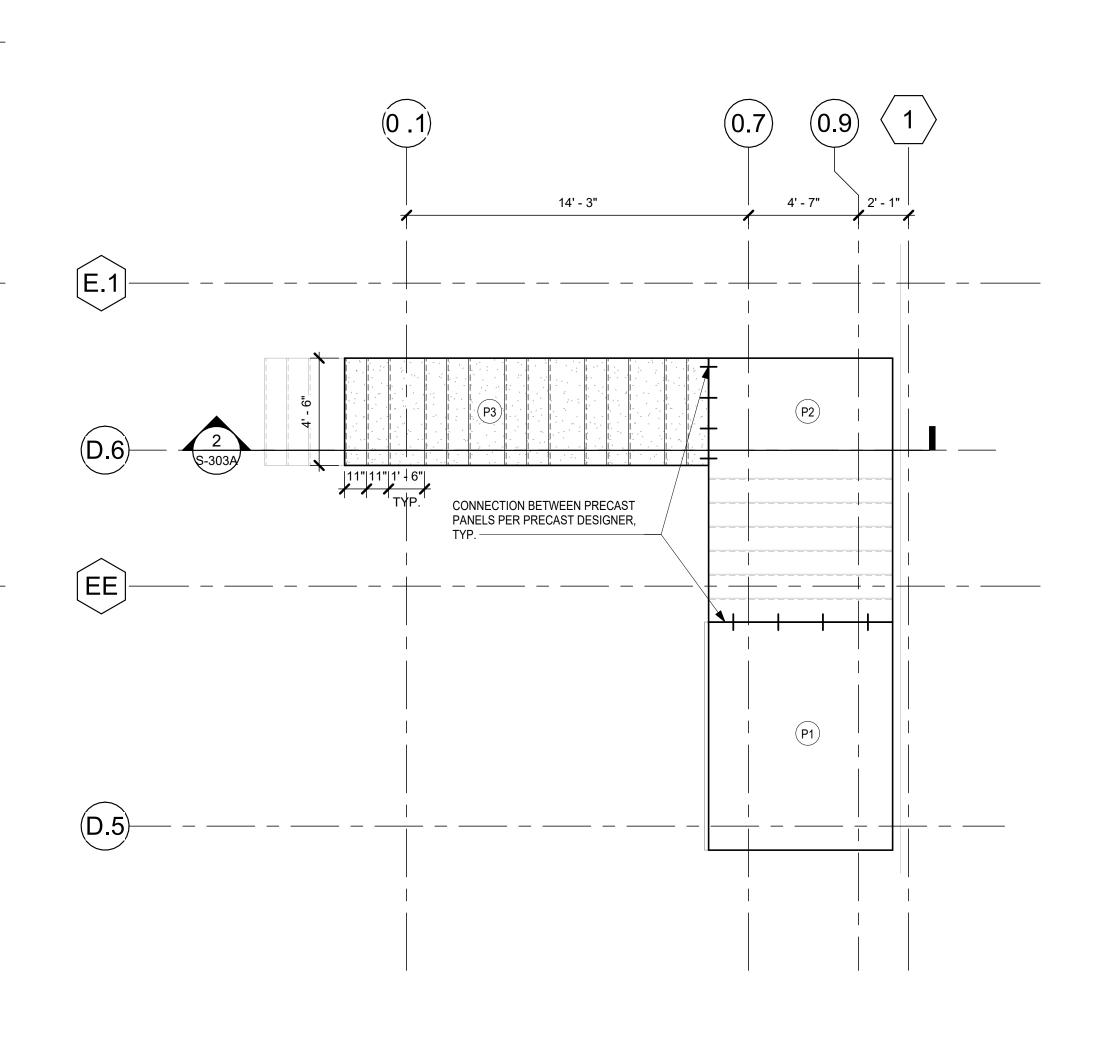
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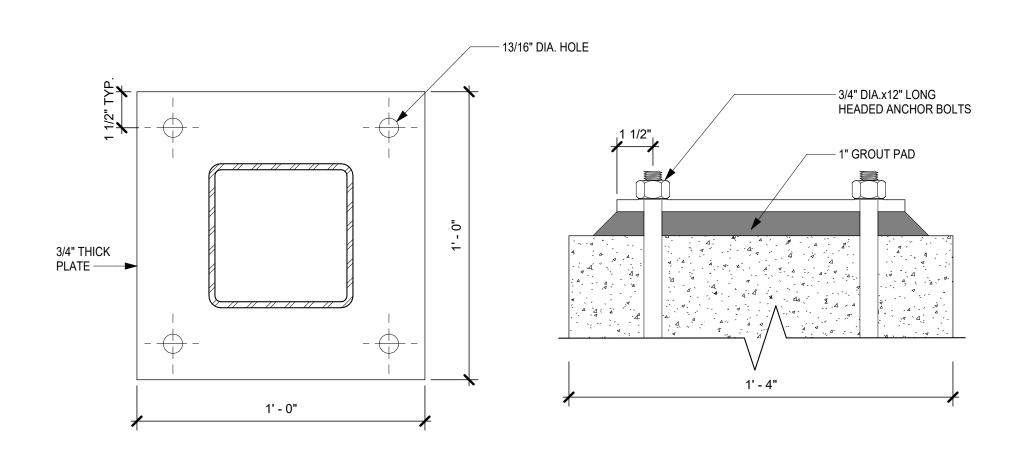
2 TYPICAL PIER & FOUNDATION DETAIL 1" = 1'-0"



5) LEARNING STAIR PRECAST

	COLUMN SCHEE	DULE
COLUMN DESIGNATION	SIZE	HEIGHT
C-1	HSS $6 \times 6 \times \frac{1}{4}$ "	11'-2"
C-2	HSS 6 x 6 x ¹ / ₄ "	8'-2"
C-3	HSS 6 x 6 x ¹ / ₄ "	8'-2"
C-4	HSS 6 x 6 x ¹ / ₄ "	8'-2"
C-5	HSS 6 x 6 x $\frac{1}{4}$ "	2'-0"
C-6	HSS 6 x 6 x ¹ / ₄ "	2'-0"
C-7	HSS 6 x 6 x $\frac{1}{4}$ "	8'-2"
C-8	HSS $6 \ge 6 \ge \frac{1}{4}$ "	11'-2"

FOOTING SCHEDULE				
FOOTING DESIGNATION	SIZE LxWxD	REINFORCING	QUANTITY	
F-1	3' x 2' x 1'	#5 BARS @ 12" O.C.E.W. TOP AND BOTTOM	2	
F-2	3' x 3' x 10"	#5 BARS @ 12" O.C.E.W. TOP AND BOTTOM	2	
F-3	3' x 3' x 1'	#5 BARS @ 12" O.C.E.W. TOP AND BOTTOM	3	
F-4	3.5' x 3.5' x 1'	#5 BARS @ 12" O.C.E.W. TOP AND BOTTOM	1	



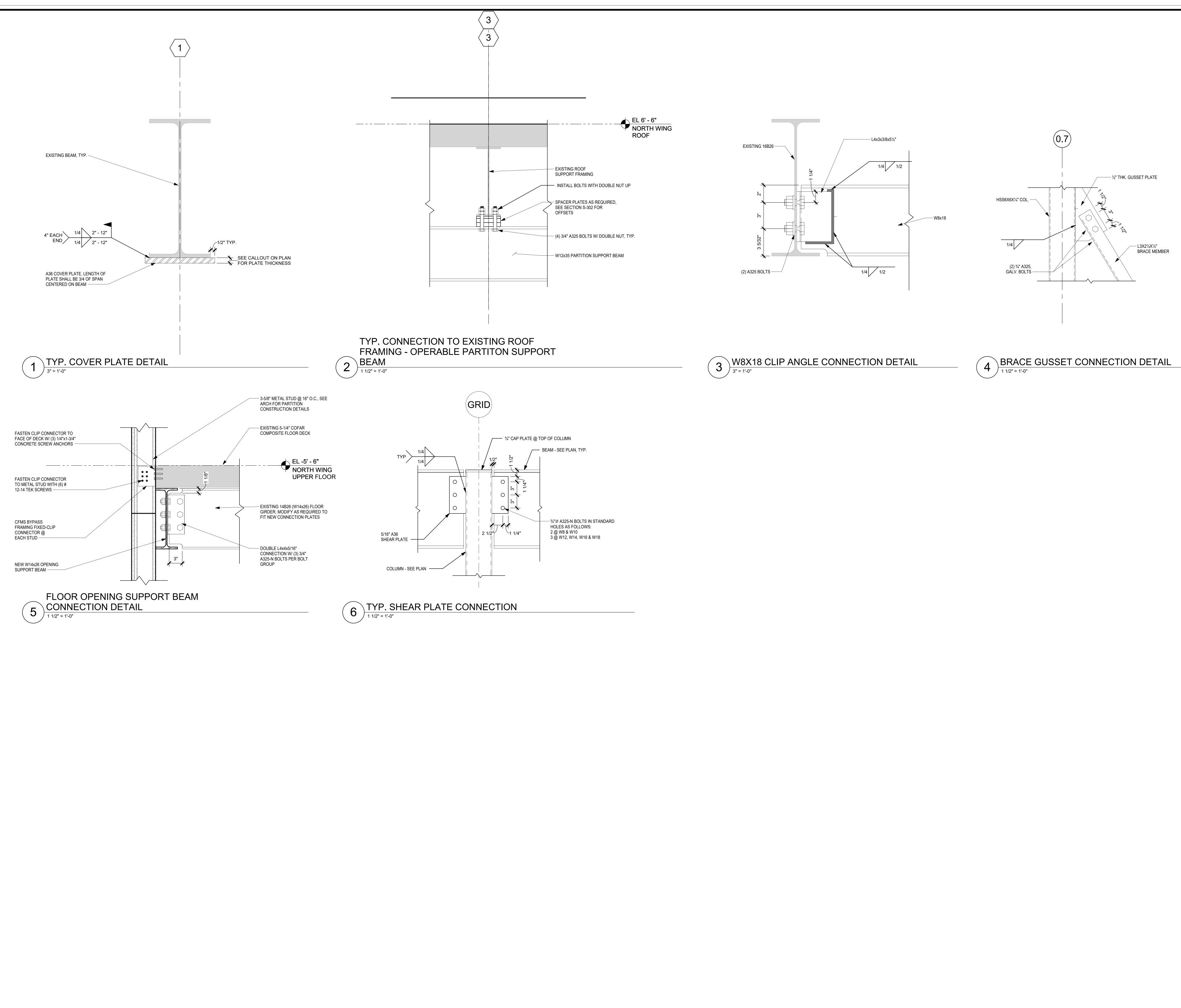


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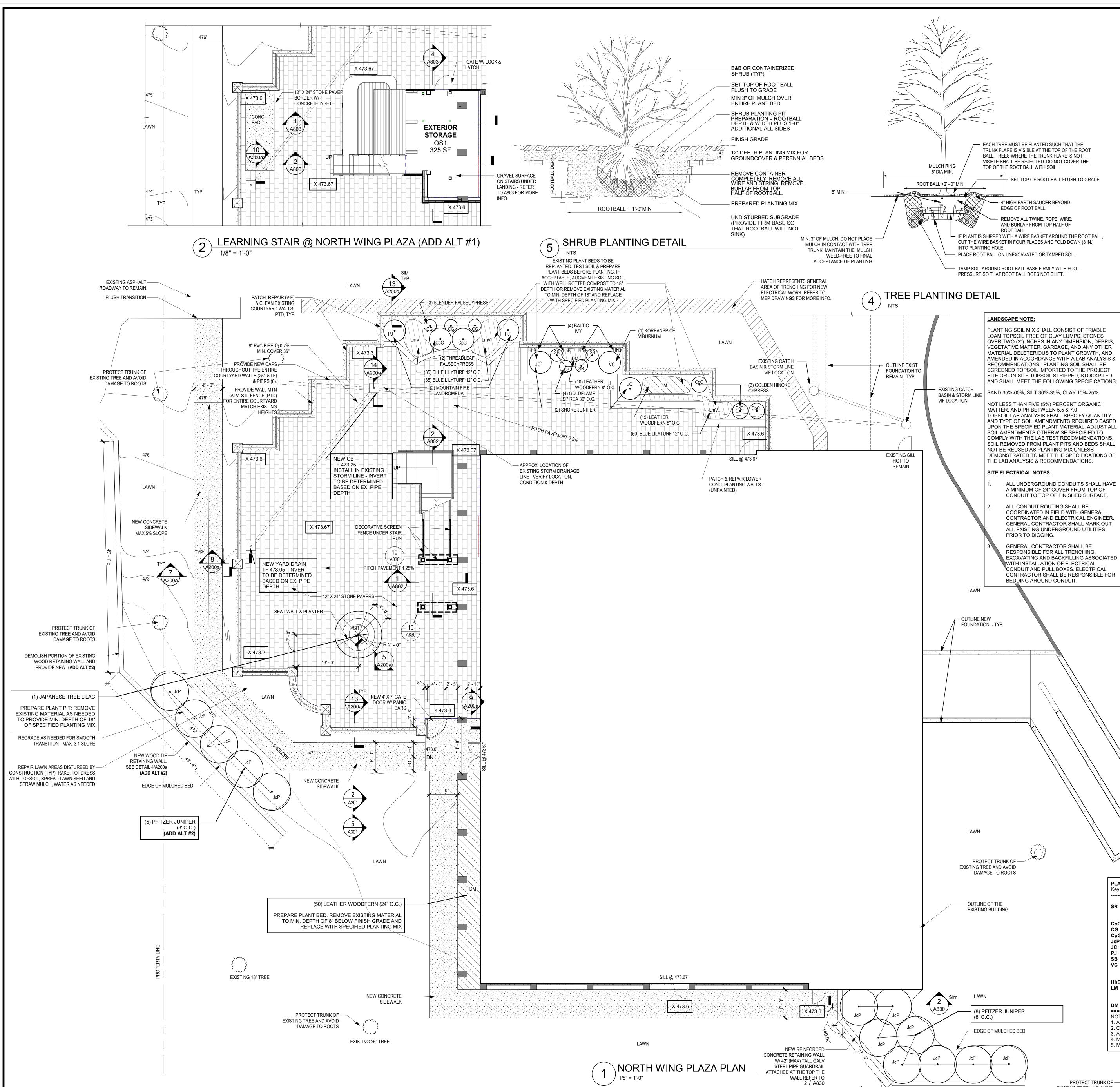
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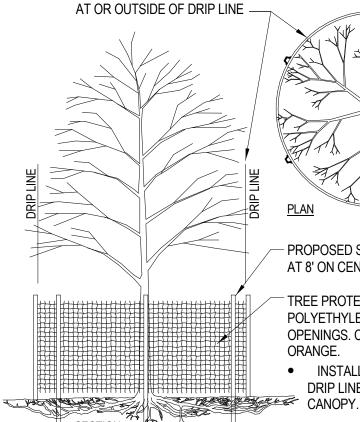


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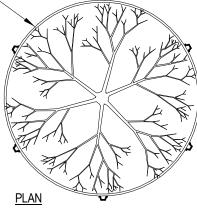
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LOCATE PROTECTION FENCE



PROPOSED SUPPORT POSTS AT 8' ON CENTER

- TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING. W. 3.5"X1.5" OPENINGS. COLOR: ORANGE
- INSTALL FENCE AT OR OUTSIDE OF DRIP LINE OF TREE

TREE PROTECTION NOTES

SECTION

- INSTALL TREE PROTECTION FOR ANY AND ALL EXISTING TREES IDENTIFIED TO BE PRESERVED ON THE PLANS. INSTALL PRIOR TO DEMO, CLEARING, GRUBBING OR GRADING. CONTRACTOR SHALL TAKE WHATEVER ADDITIONAL PROTECTIVE MEASURES ARE NECESSARY TO AVOID CUTTING, BREAKING OR SKINNING OF BARK OR ROOTS OF EXISTING TREES TO REMAIN.
- CONSTRUCTION ACTIVITY SHALL STRICTLY AVOID COMPACTION OF THE ROOT ZONE, INCLUDING MATERIAL STOCKPILING, VEHICLE TRAFFIC OR PARKING WITHIN THE DRIP LINE. NO CONSTRUCTION ACTIVITY, INCLUDING STORAGE OF EQUIPMENT OR MATERIALS, SHALL TAKE PLACE IN AREAS ENCLOSED BY TREE PROTECTION FENCE.
- ANY DAMAGE TO EXISTING TREE BRANCHES OR ROOTS SHALL BE PROMPTLY REPAIRED. ROOTS OR BRANCHES DAMAGED DURING GRADING OR CONSTRUCTION SHALL BE CUT OFF CLEANLY. EXPOSED ROOTS SHALL BE PROMPTLY COVERED WITH TOPSOIL.
- TIE BACK ANY TREE BRANCHES THAT CONFLIFT WITH CONSTRUCTION EQUIPMENT OPERATION TREE LIMB REMOVAL, WHERE NECESSARY, SHALL BE CUT FLUSH WITH THE TRUNK OR MAIN LIMB. ALL PRUNING SHALL BE DONE IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE.
- 5. REMOVE TREE PROTECTION WHEN SITE DEVELOPMENT IS FINISHED.
- WHERE TRENCHING FOR UTILITIES IS REQUIRED WITHIN THE ROOT ZONE, TUNNELING UNDER AND AROUND ROOTS SHALL BE DONE BY HAND DIGGING. ROOTS 3" OR LARGER THAT CANNOT BE AVOIDED SHALL BE HAND PRUNED 6" BACK FROM THE NEW CONSTRUCTION LIMIT IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. EXPOSED ROOTS SHALL BE IMMEDIATELY COVERED WITH MOIST SOIL OR WET BURLAP.

TREE PROTECTION DETAIL 3 NTS

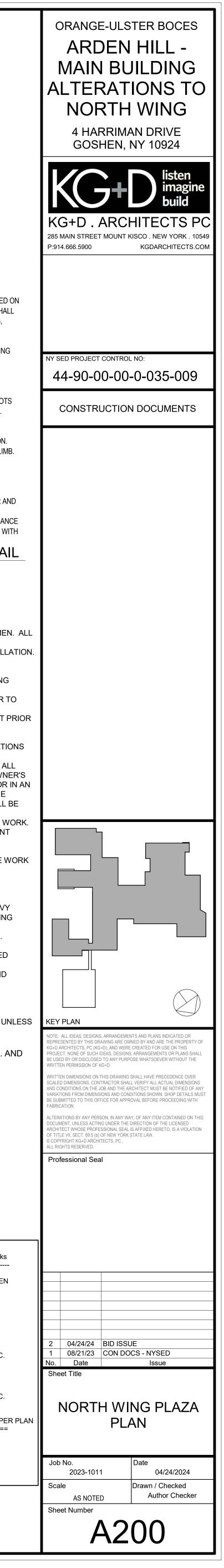
PLANTING NOTES

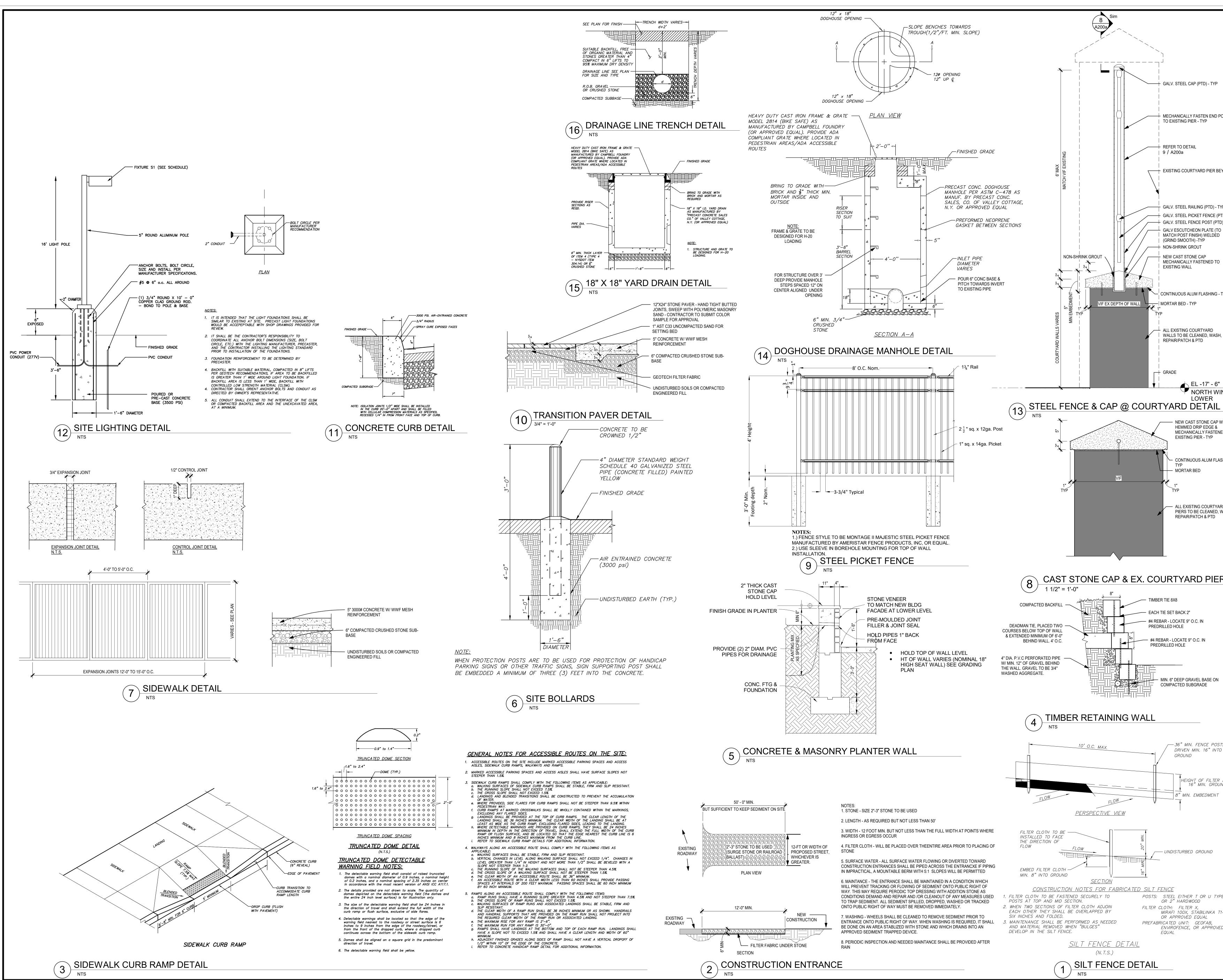
- PLANT SIZES AND GRADING SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014) OF THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANT MATERIAL SHALL BE NURSERY GROWN. FULLY FORMED AND IN A HEALTHY CONDITION FREE OF INSECTS, PESTS, DISEASE OR DAMAGE AT THE TIME OF INSTALLATION.
- ALL PLANT MATERIALS MAY BE SUBJECT TO INSPECTION AND REJECTION BY THE ARCHITECT AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK. OBTAIN ARCHITECT'S APPROVAL OF PLANT SUBSTITUTIONS AND TIME OF PLANTING
- PRIOR TO DELIVERY OF MATERIALS TO THE SITE. OBTAIN ARCHITECT'S APPROVAL OF SEED MIXTURES AND TIME OF SEEDING PRIOR TO DELIVERY OF MATERIALS TO THE SITE.
- STAKE OR FLAG PROPOSED PLANT LOCATIONS FOR APPROVAL BY THE ARCHITECT PRIOR TO COMMENCING PLANTING. NOTIFY ARCHITECT AT LEAST 72 HOURS IN ADVANCE OF STARTING PLANTING
- OPERATIONS. RECEIVE APPROVAL FOR LAYOUT OF ALL BED LINES AND TREE LOCATIONS PRIOR TO INSTALLATION. PLANTING GUARANTEE & REPLACEMENT : THE CONTRACTOR SHALL GUARANTEE ALL
- PLANTS FOR ONE FULL YEAR FROM THE TIME OF FORMAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL REPLACE ANY PLANT THAT IS DEAD OR IN AN UNHEALTHY OR UNSIGHTLY CONDITION THROUGH NO FAULT OF THE OWNER, IN THE OPINION OF THE OWNER'S REPRESENTATIVE. REPLACEMENTS, IF REQUIRED, SHALL BE EQUAL IN ALL RESPECTS TO THE ORIGINAL SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN ALL PLANTINGS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE INCLUDES WATERING AS MANY TIMES AS NEEDED TO MAINTAIN PLANT VIGOR.
- 9. CONTRACTOR SHALL BE FAMILIAR WITH LOCATIONS OF ABOVEGROUND AND BELOWGROUND UTILITIES, MECHANICAL EQUIPMENT AND OTHER FEATURES IN THE WORK AREA BEFORE PROCEEDING WITH WORK. CONFLICTS WITH PLANTINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- 10. CONTACT "DIG SAFELY NEW YORK" 811 OR 1-800-962-7962 FOR LOCATION OF UNDERGROUND UTILITIES 72 HOURS PRIOR TO STARTING ANY EXCAVATION.
- 11. TREES NEED NOT BE STAKED EXCEPT IN LOCATIONS EXPOSED TO WINDS OR HEAVY PEDESTRIAN TRAFFIC, OR AS DIRECTED BY THE ARCHITECT. ALL STAKES AND GUYING MATERIALS MUST BE REMOVED AFTER ONE YEAR.
- 12. ALL PLANTINGS ARE TO BE INSTALLED BY A QUALIFIED LANDSCAPE CONTRACTOR. 13. CONTRACTOR SHALL CARRY WORKMAN'S COMPENSATION INSURANCE AND COMPREHENSIVE GENERAL LIABILITY INSURANCE. CERTIFICATES WILL BE REQUIRED
- PRIOR TO SIGNING CONTRACTS. 14. IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITY SHOWN ON THE PLAN AND PLANT LIST, THE PLANT LIST SHALL PREVAIL.
- 15. TEST PLANTING SOIL FOR PH AND NUTRIENTS AND ADJUST IN ACCORDANCE WITH AGRONOMY LAB RECOMMENDATIONS PRIOR TO PLANTING. 16. REFER TO TREE, SHRUB AND GROUNDCOVER PLANTING DETAILS.
- 17. ALL EXPOSED SOIL AREAS IN THE WORK AREA ARE TO BE SEEDED AND MULCHED UNLESS OTHERWISE SHOWN.

NOTE: VERIFY LOCATIONS OF EXISTING SUBSURFACE PIPING, STRUCTURES, ETC. AND PROTECT

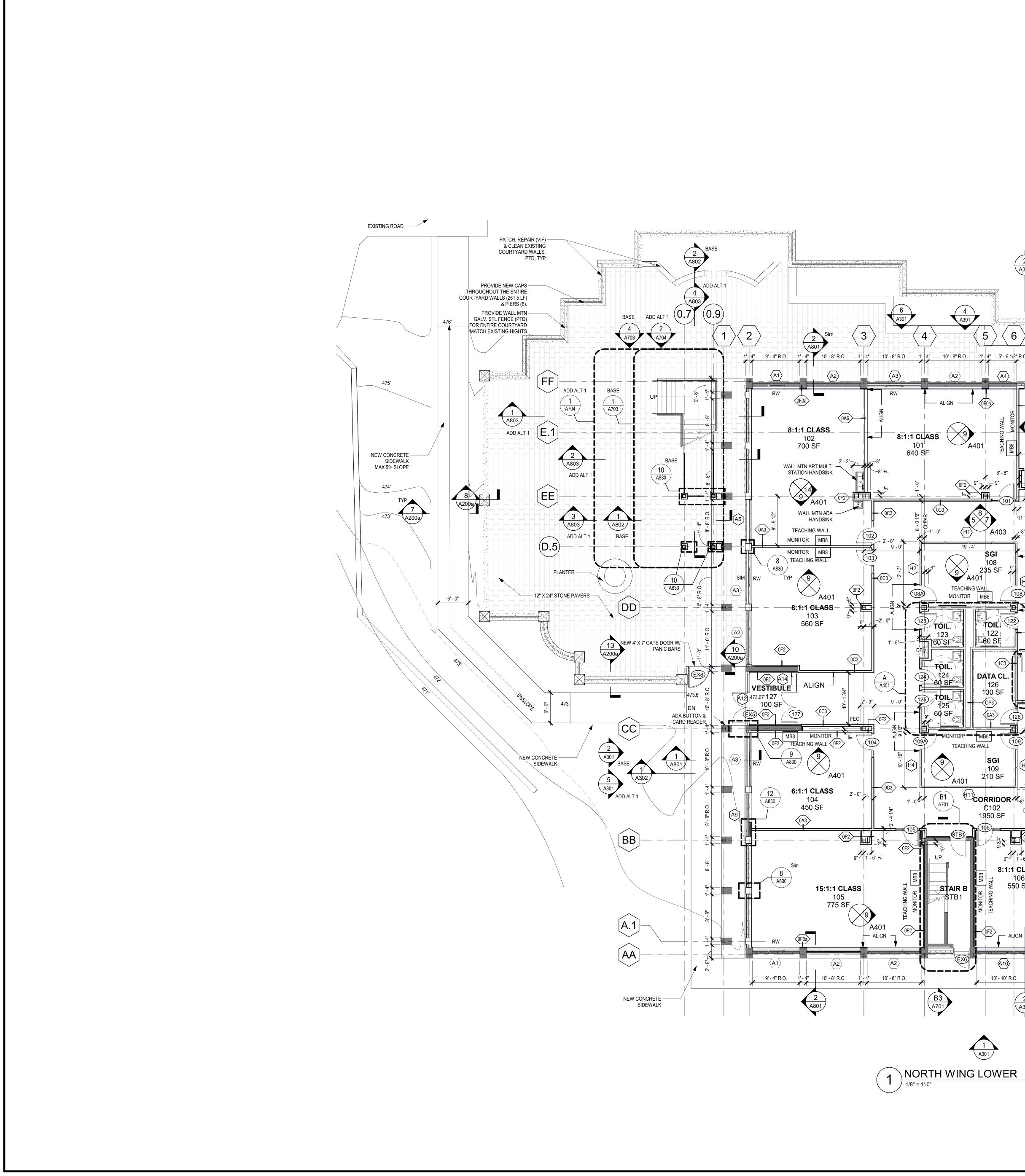
	LAWN							
	PROTECT TRUNK OF EXISTING TREE AND AVOID DAMAGE TO ROOTS							
			v <u>LAN I</u> Key	MATERIALS LIST Botanical Name	Common Name	Quant	Size	Planting Remarks
	OUTLINE OF THE EXISTING BUILDING	 S	SR	MINOR TREES Syringa reticulata Ivory Silk	Japanese Tree Lilac	1	2-2 1/2" Cal.	B&B, SPECIMEN
		C C J J S S	CoC CG CpG IcP IC PJ SB /C	<u>SHRUBS</u> Chamaecyparis obtusa 'Crippsii' Chamaecyparis obtusa 'Gracilis' Chamaecyparis pisifera Golden Mop Juniperus chinensis Pfitzeriana Juniperus conferta Pieris japonica 'Mountain Fire' Spirea x bumalda 'Goldflame' Viburnum carlesi	Golden Hinoke Cypress Slender Falsecypress Threadleaf Falsecypress Pfitzer Juniper Shore Juniper Mountain Fire Andromeda Goldflame Spirea Koreanspice Viburnum	3 2 13 2 2 4 1	3 GAL 3 GAL 3 GAL 5 GAL 3 GAL 3 GAL 5 GAL	PLANT 8' O.C. PLANT 36" O.C.
	Sim LAWN		∃hΒ ₋M	<u>GROUNDCOVERS</u> Hedera helix 'Baltica' Liriope muscari Variegata	Baltic Ivy Blue Lilyturf	4 120	#1 CONT. #1 CONT.	PLANT 12" O.C.
Y -	A830 LAWN (8) PFITZER JUNIPER		OM	FERNS & PERENNIALS Dryopteris marginalis	Leather Woodfern	75	4" PLUG	SPACING AS PER
JcP	EDGE OF MULCHED BED] 1 2 3 4	2. Cont 3. All pl 4. Mulc	S: lants to be B&B or container grown unless tractor shall verify all quantities and furnis lant beds shall receive 3" depth of specifie th for Fern plant bed shall be fine shredde th for all other plant beds shall be shredde	h all plants shown on the plan. ed mulch over fabric weed bar ed pine bark, natural color.		ss otherwise sh	iown.
	JcP JcP JcP 27' - 8"	PROTECT TRUNK OF EXISTING TREE AND AVOID DAMAGE TO BOOTS	:	EXISTING 18" TREE				

DAMAGE TO ROOTS

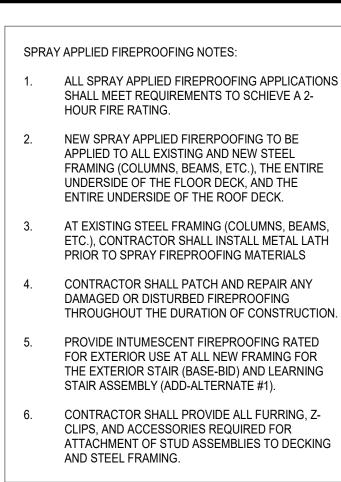




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140N, ED	Job No. Date 2023-1011 04/24/2024 Scale Drawn / Checked Author Checker
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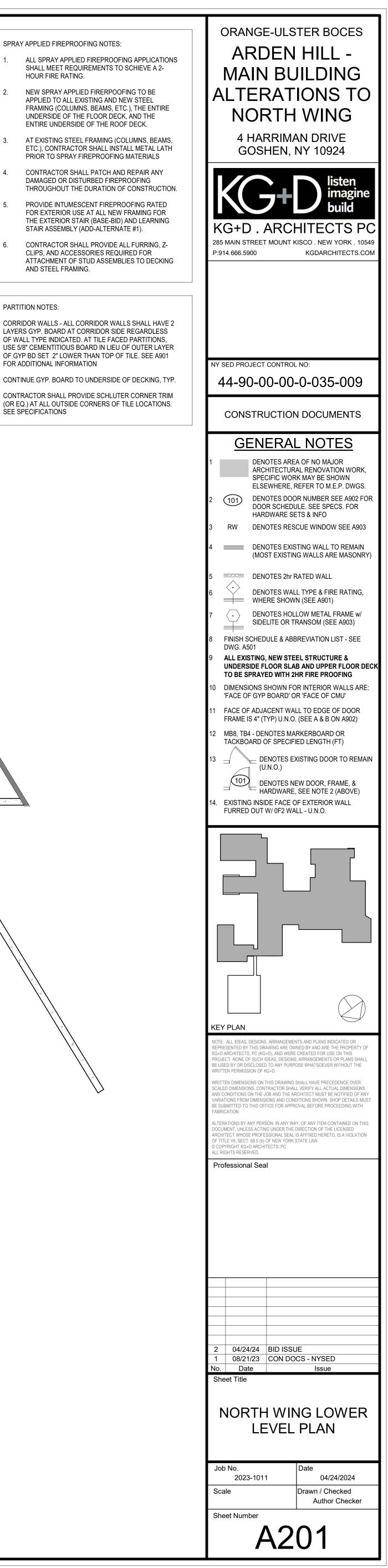


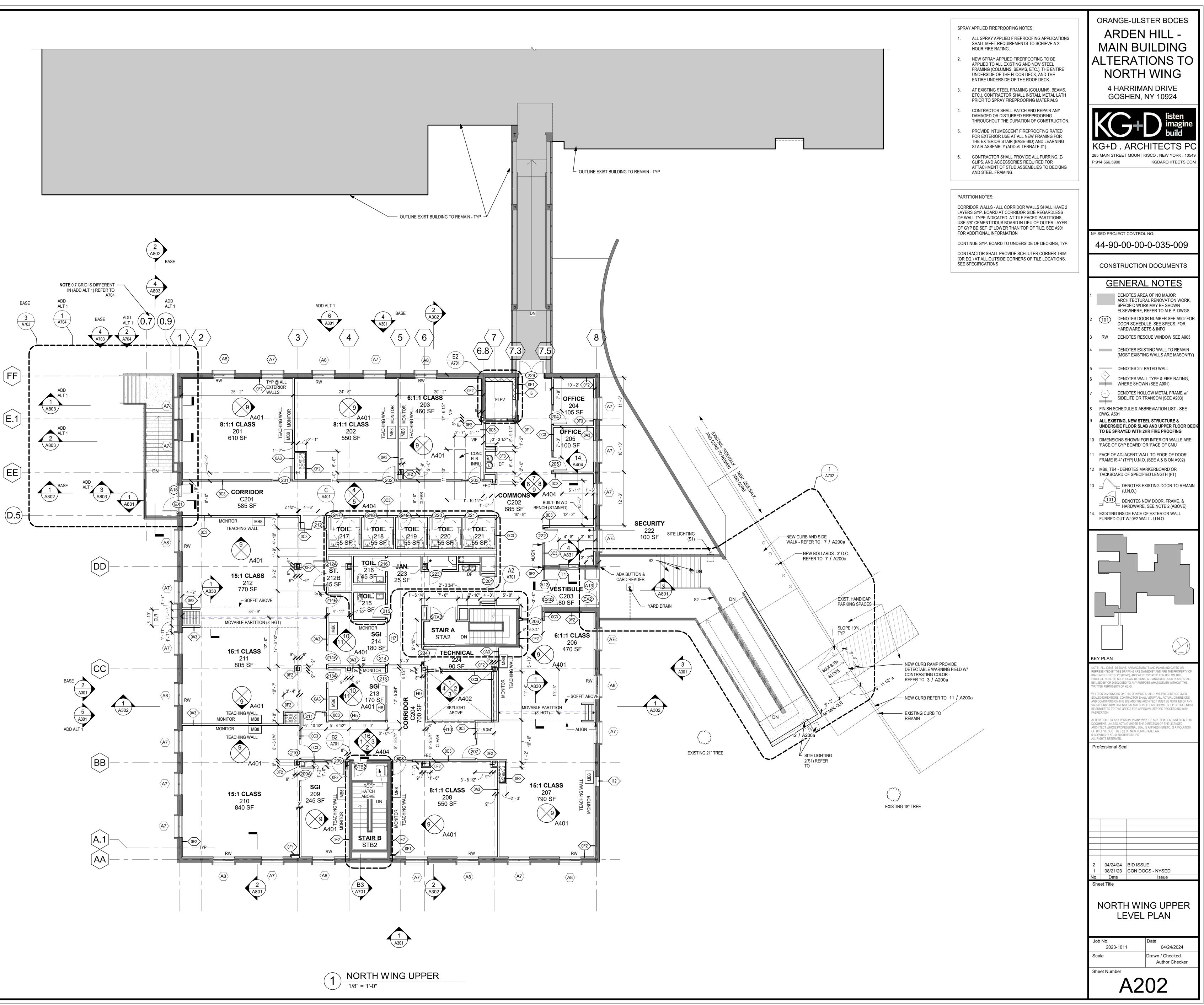
ATTACHED AT THE TOP THE WALL

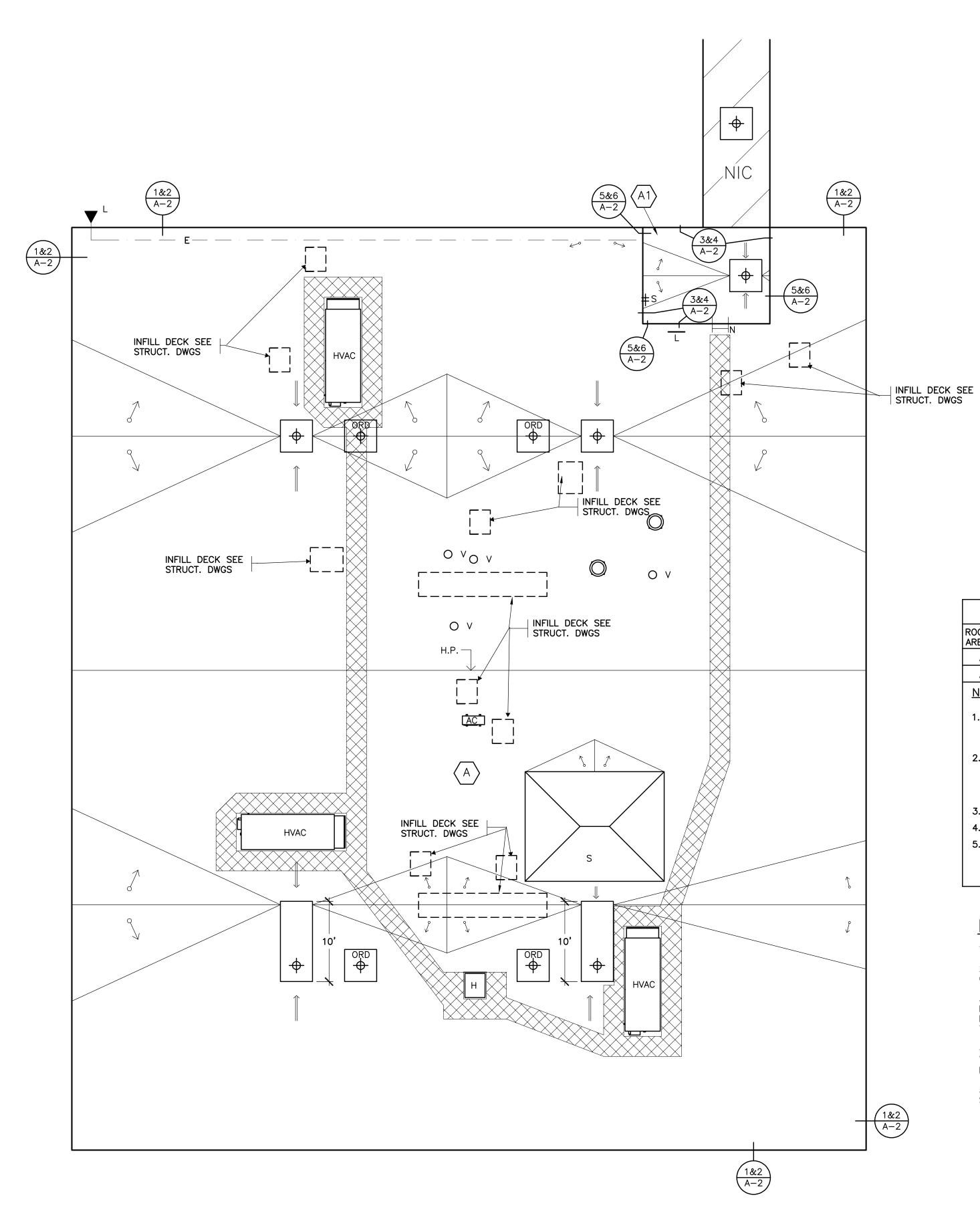


PARTITION NOTES:

LAYERS GYP. BOARD AT CORRIDOR SIDE REGARDLESS OF WALL TYPE INDICATED. AT TILE FACED PARTITIONS, EXISTING CATCH -----USE 5/8" CEMENTITIOUS BOARD IN LIEU OF OUTER LAYER BASIN & STORM LINE OF GYP BD SET 2" LOWER THAN TOP OF TILE. SEE A901 VIF LOCATION TO FOR ADDITIONAL INFORMATION REMAIN CONTINUE GYP. BOARD TO UNDERSIDE OF DECKING, TYP. - OUTLINE EXIST CONTRACTOR SHALL PROVIDE SCHLUTER CORNER TRIM FOUNDATION TO (OR EQ.) AT ALL OUTSIDE CORNERS OF TILE LOCATIONS. REMAIN - TYP SEE SPÉCIFICATIONS EXISTING CATCH **BASIN & STORM LINE** VIF LOCATION TO REMAIN 5 6 1' - 4" ____5' - 6 1/2" R.O. - EXIST. RETAINING WALL TO REMAIN A403**ELEV** EXIST. STAIR T REMAIN LOBBY 8' - 0" **C**101 EL -17' - 6" 315 SF (116) C101 APPROX OUTLINE OF REQ ** ROOM FLOOR PATCHING (600+/- SF) -PATCH & MATCH TO EXIST ADJ 116 SURFACES - TYP 770 SF F TOIL, 117 ' 70 SF 8' - 4" A401 SGI **`-**+----/ 108 235 SF JAN. TOIL. /TOIL. 120 108 <u>-118</u> -119_ 45 SF 4 60 SF 60 SF / ╰━━┥╾┿╼┳╴╾╾┥╾╍╼╇╯ EXIST. SEWAGE PUMP LOCATION 122 60 SF A801 <u>╪</u>╼╧╼┽╸╸╸ A404 8' - 0" COPY/FAC CLR 115<0F0 Í STAIR A 🚄 (115) 125 SF DATA CL. STA1 126 – ALIGN <1M6> □ 1³⁰ SF MONITOF OP3 (3 (A301) SGI 114 (VF0b) T-MONITOR - + MB8 + -114 125 SE 0A3 (109) لب ABOVE COMMONS SG MONITOR 109 C102A 1 A302 210 SF ^{.8"} FLR MTN → DATA/VOICE, ち SGI Ċ102 113 1950 SF POWER V 125 SF MB8 └____8' - 11 1/4" 9" / 1' - 6" +/-— FLR MTN 8:1:1 CLASS DATA/VOICE, $\times 14$ POWER 106 <>>_________ ∧ _____ ∧ _____ ∧ _____ ∧ _____ ∧ _____ ∧ ____ ∧ _____ ∧ ____) ∧ ____ ∧ ___ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ___ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ___ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ___ ∧ ____) ∧ ____ ∧ ___ ∧ ____ ∧ ____ ∧ ____ ∧ ____) ∧ ____ ∧ ___) ∧ ____) ∧ ____ ∧ ____ ∧ ____ ∧ ____ ∧ ____) ∧ ____) ∧ ____ ∧ ___) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) ∧ ____) \rangle \rangle OUTLET A403~ 550 SF H12 8:1:1 CLASS 107 555 SF — WALL TYPE 0F0b IN 107, 113, 114, 115 - 2'-1/2" XPS RIGID ן <0F0a) - ALIGN I INSULATION OVER EXISTING (OFOb) RW CONCRETE WALLS (10) (A11) 2 Sir 10' - 10" R.<mark></mark>. 10' - 10" R.O. 1' - 4" 11 2 A302 81 _ PROVIDE LANDSCAPE BRUSHES NEW REINFORCED 27' - 8" CONCRETE RETAINING WALL W/ 42" TALL GALV STEEL PIPE 1 A301 GUARDRAIL









	LEGEND:
$\langle A \rangle$	ROOF AREA DESIGNATION
 == s	SCUPPER (SEE DET. 4A/A252
+	ROOF DRAIN & SUMP (SEE DET. 7/A252)
	OVER FLOW DRAIN (SEE DET. 7 SIM/A252)
٥V	VENT PIPE (SEE DET. 8/A252)
Н	ROOF HATCH (SEE DET. 9/A252)
HVAC	HVAC EQUIPMENT (SEE DET. 10/A252)
∕₅√	SKYLIGHT (SEE DET. 11/A252)
N	ROOF LADDER (SEE DET. 12/A252)
(<u>ÅC</u>)	AC EQUIPMENT (SEE M/E DRAWINGS)
ΥL	SITE LIGHT (SEE NOTE 6)
· -E·	ELECTRICAL CONDUIT (SEE NOTE 6)
	WALL LOUVER (SEE NOTE 9)
	LIGHTNING PROTECTION-NOT SHOWN (SEE NOTE 11)
	BREATHER VENT-NOT SHOWN (SEE NOTE 5)
\implies	TAPERED ISOCYANURATE INSULATION, SLOPE 1/8" PER FT
$\sim \rightarrow$	CRICKET- SLOPE 1/4" PER FT
H.P.	INSULATION HIGH POINT
	WALKWAY PADS

DUCT WATERPROOFING/INSULATION DETAIL REFER TO 7/A831

DECK TYPE CHART	&	INSULATION	REQUIREMENTS
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ROOF AREA	DECK TYPE	STARTING THICKNESS OF NEW INSULATION	MINIMUM R-VALUE OF NEW INSULATION		AVERAGE R-VALUE OF NEW INSULATION
А	CONCRETE DECK	5.5 "	30	7.0"	47.2
A1	CONCRETE DECK	5.5 "	30	5.8"	33.6
NOTE	<u>ح</u> .				

<u>INUTES:</u>

ELEVATION WALLS.

1.INSTALL CONTINUOUS INSULATION WITH A MINIMUM R-VALUE OF 30 ABOVE THE DECK, TO MEET THE NYS ENERGY CONSERVATION CONSTRUCTION CODE, INCLUDING THE INTERNATIONAL ENERGY CONSERVATION CODE AND THE NY STATE SUPPLEMENT, FOR A BUILDING IN CLIMATE ZONE 5.
2.INSTALL TAPERED ISOCYANURATE INSULATION THAT SLOPES 1/8 INCH PER FOOT; MINIMUM STARTING THICKNESS 5–1/2 INCHES UNLESS OTHERWISE NOTED. INSTALL THE ISOCYANURATE INSULATION IN MULTIPLE LAYERS, WITH THE THICKEST LAYER BEING 4 INCHES. STAGGER ALL JOINTS BETWEEN LAYERS 12 INCHES.

3.INSTALL ISOCYANURATE INSULATION CRICKETS OVER THE TAPERED INSULATION.

4.INSTALL A COVER BOARD USING LOW RISE FOAM ADHESIVE OVER THE INSULATION AND CRICKETS. 5.INSTALL SLOPING CRICKETS ON THE UP-HILL SIDE OF ALL CURBS THAT ARE 30 INCHES AND WIDER.

ROOF PROTECTION NOTES:

1. AVOID WALKING ON NEW AND EXISTING ROOF AREAS.

2. DO NOT STORE MATERIAL OR EQUIPMENT, AND DO NOT PILE DEBRIS ON NEW AND EXISTING ROOF AREAS.

3. INSTALL 1 INCH THICK EXTRUDED POLYSTYRENE INSULATION OVER 6 MIL FIRE RETARDANT POLYETHYLENE, COVERED WITH 2x10 WOOD PLANKS TO PROTECT ROOFING WHERE CONSTRUCTION WORK AND TRAFFIC WILL OCCUR.

4. NEATLY CUT AND POSITION ROOF PROTECTION COMPONENTS TO FIT WITHIN 1/2 INCH OF ROOF PENETRATIONS, EAVES AND CHANGE IN

5. DO NOT COVER THE ROOF DRAINS. MAINTAIN THE ROOF DRAIN STRAINERS VISIBLE AND CLEAR AT ALL TIMES.

GENERAL NOTES:

1. THESE DRAWINGS ARE SUPPLEMENTED BY DETAILED TECHNICAL SPECITICATIONS. PERFORM THE WORK AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.

2. DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR.

3. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.

4. TEST EACH DRAIN LINE WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY OTHER WORK ON SITE. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE OWNER.

A.CLOGGED DRAIN LINES REPORTED TO THE OWNER BEFORE WORK STARTS WILL BE CLEANED BY THE OWNER.

B.COVER & PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY AND BEFORE PRECIPITATION OCCURS.

C.PERFORM WHATEVER WORK IS REQUIRED SO ALL DRAIN LINES ARE CLEAN AND FREE FLOWING UPON COMPLETION OF THE PROJECT.

5. REMOVE ALL EXISTING ROOF TOP EQUIPMENT AND THE BREATHER VENTS. REFER TO THE M/E DRAWINGS FOR ADDITIONAL INFORMATION.

6. REMOVE AND RESET SITE LIGHT FIXTURES, WIRES AND CONDUITS, MOUNTED ON THE ROOF FASICA AND ROOF SURFACE. REPLACE COMPONENTS THAT CANNOT BE PROPERLY REINSTALLED.

7. REMOVE THE EXISTING METAL PANEL SCREEN WALL, STEEL SUPPORT STRUCTURE AND SEALANT POCKET.

8. REMOVE THE EXISTING SKYLIGHTS. REFER TO THE STRUCTURAL DRAWINGS FOR DECK IN-FILL REQUIREMENTS.

9. REMOVE AND RESET THE EXISTING WALL LOUVER; INSTALL THE NEW CAP FLASHING TO PAN OUT AND WRAP THE SILL. REPLACE THE SEALANT JOINTS ON THE SIDES AND TOPS OF THE LOUVER.

10. INSULATE THE NEW DRAIN LINES, AND THE UNDERSIDES OF THE NEW DRAIN BOWLS.

11. REMOVE, RESET AND REPAIR LIGHTNING PROTECTION.

CODE COMPLIANCE REQUIREMENTS:

1. INSTALL NEW ROOFING TO MEET THE FOLLOWING MINIMUM REQUIREMENTS: A. NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, WHICH INCLUDES BY REFERENCE THE NEW YORK STATE ENERGY CONSERVATION CODE.

B. UNDERWRITERS LABORATORIES INC. CLASS A EXTERNAL FIRE RATING FOR ROOF ASSEMBLIES TESTED IN ACCORDANCE WITH ASTM E 108 OR UL 790.

C. UNDERWRITERS LABORATORIES INC. STANDARD 1256 FOR ROOF ASSEMBLIES WITH FOAM INSULATION.

2. INSTALL ROOFING TO COMPLY WITH THE WIND UPLIFT REQUIREMENTS OF THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, BASED ON THIS CRITERIA:

RISK CATEGORY III

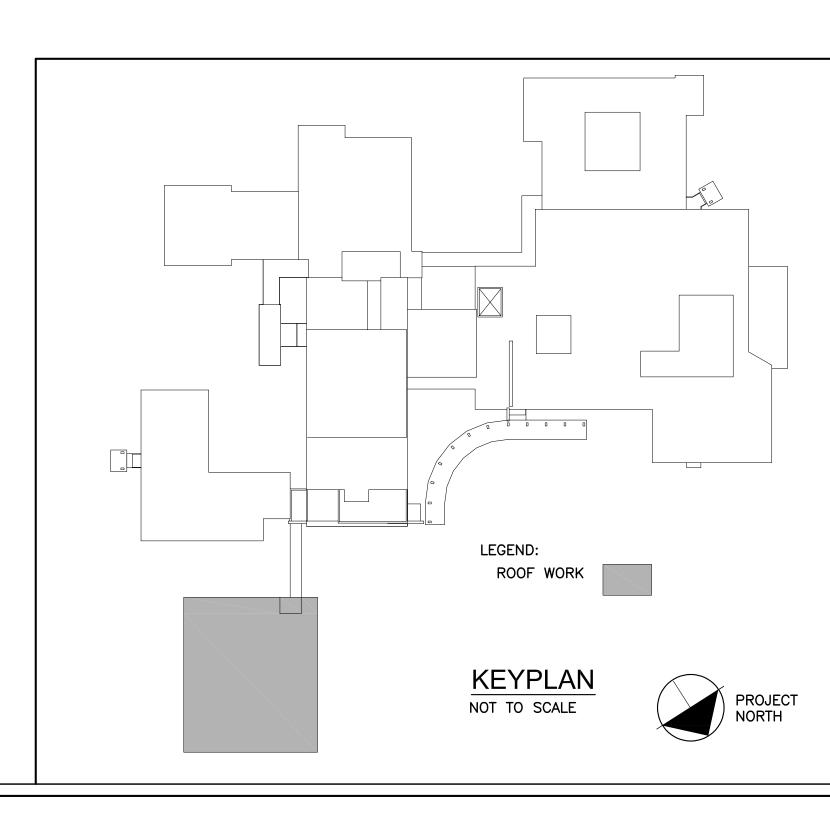
BASIC WIND SPEED 130 MPH EXPOSURE CATEGORY B BUILDING HEIGHT 30 FT.

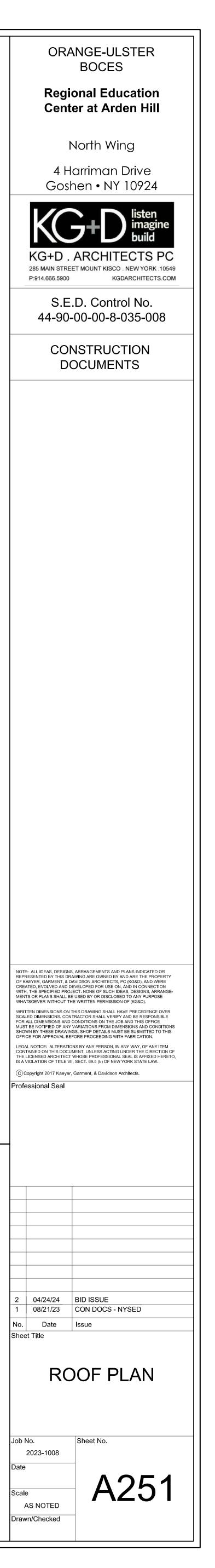
3. INSTALL ROOFING AS INDICATED TO RESIST THE FOLLOWING UPLIFT LOADS, CALCULATED IN ACCORDANCE WITH ASCE 7 USING A SAFETY FACTOR OF 2: FIELD ZONE: 60 PSF PERIMETER ZONE: 100 PSF

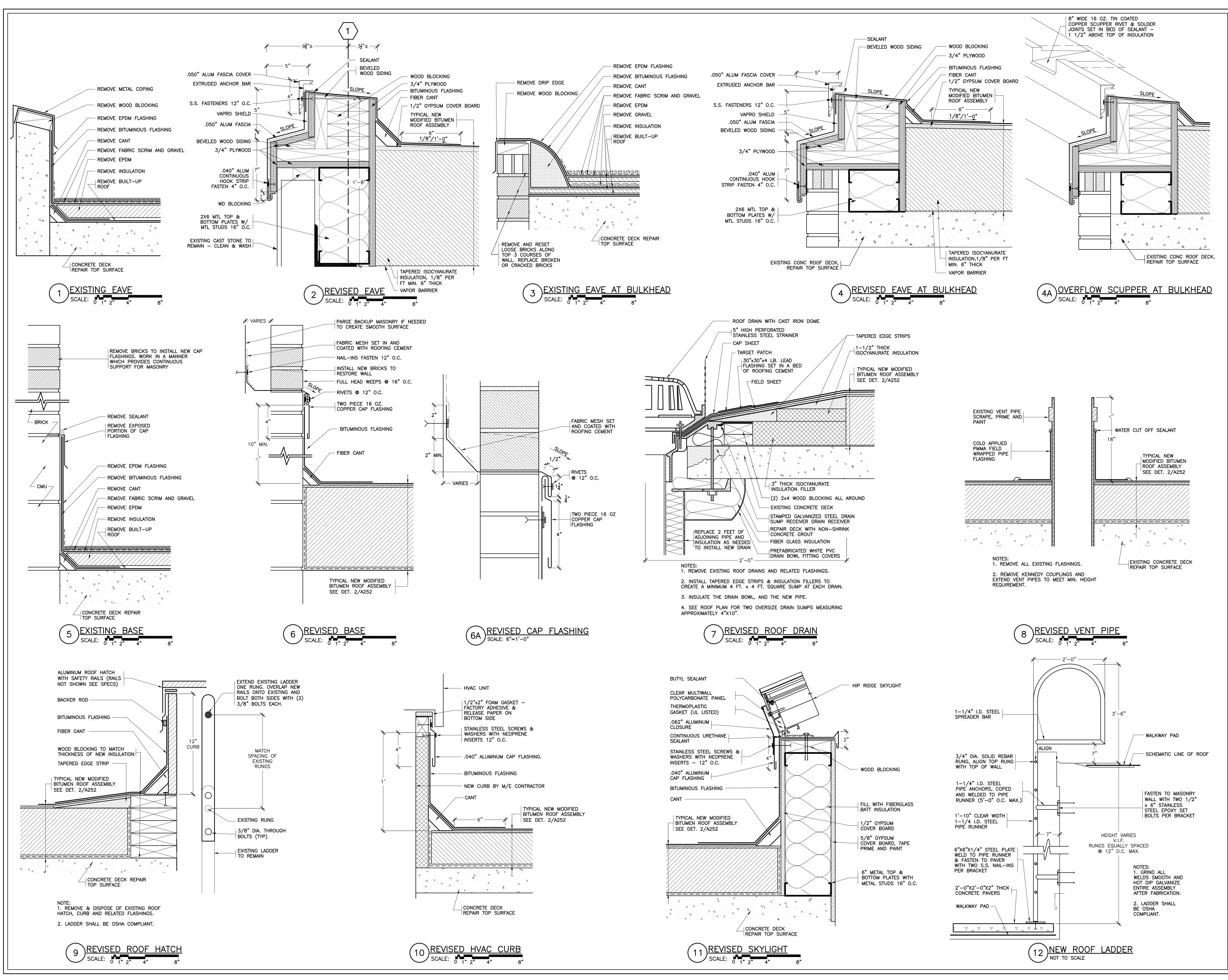
CORNER ZONE: 150 PSF

4. FABRICATE AND INSTALL ROOF PERIMETER FLASHINGS THAT COMPLY WITH THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND WITH ANSI/SPRI ES-1 "WIND STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS", ON A BUILDING USING THE CRITERIA DESCRIBED ABOVE.

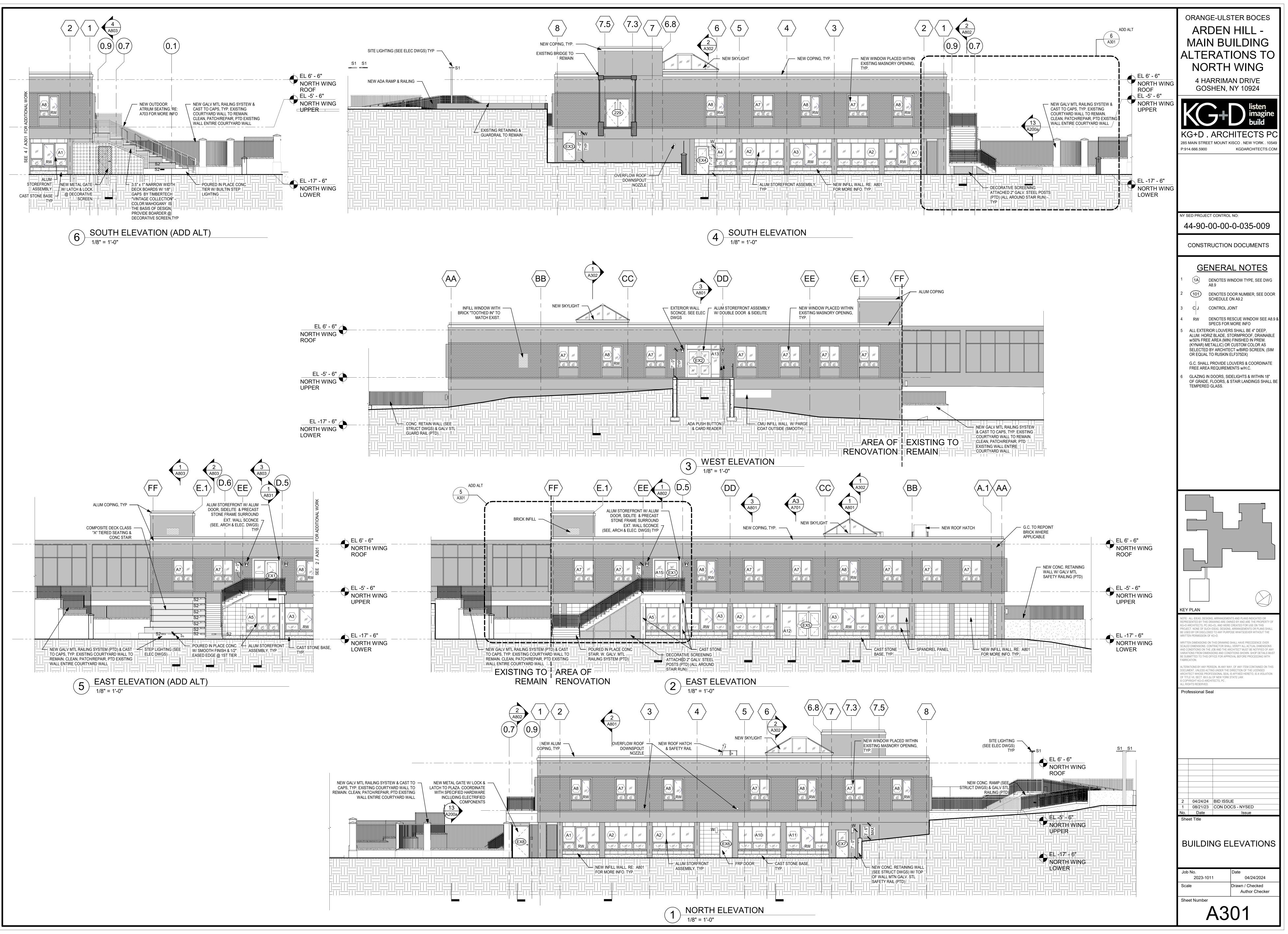
5. FABRICATE AND INSTALL WOOD BLOCKING COMPONENTS TO RESIST A FORCE OF 275 POUNDS PER LINEAL FOOT APPLIED IN ANY DIRECTION.

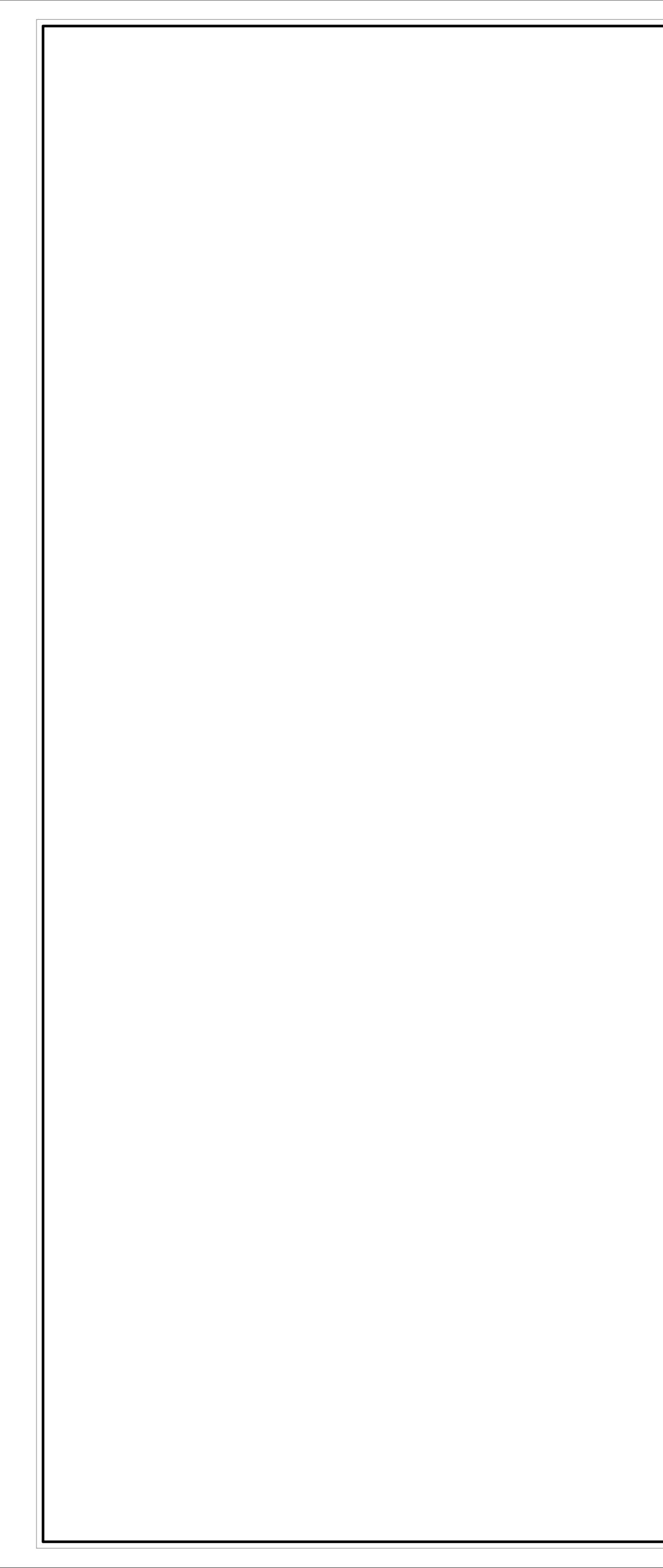


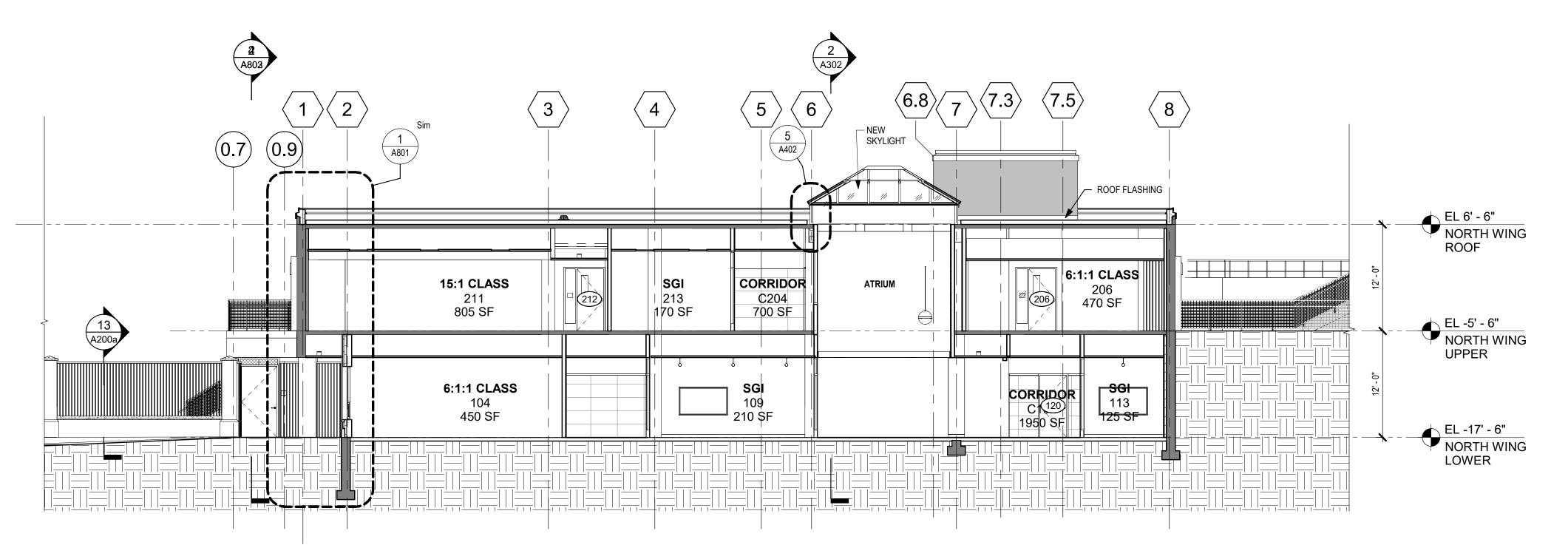


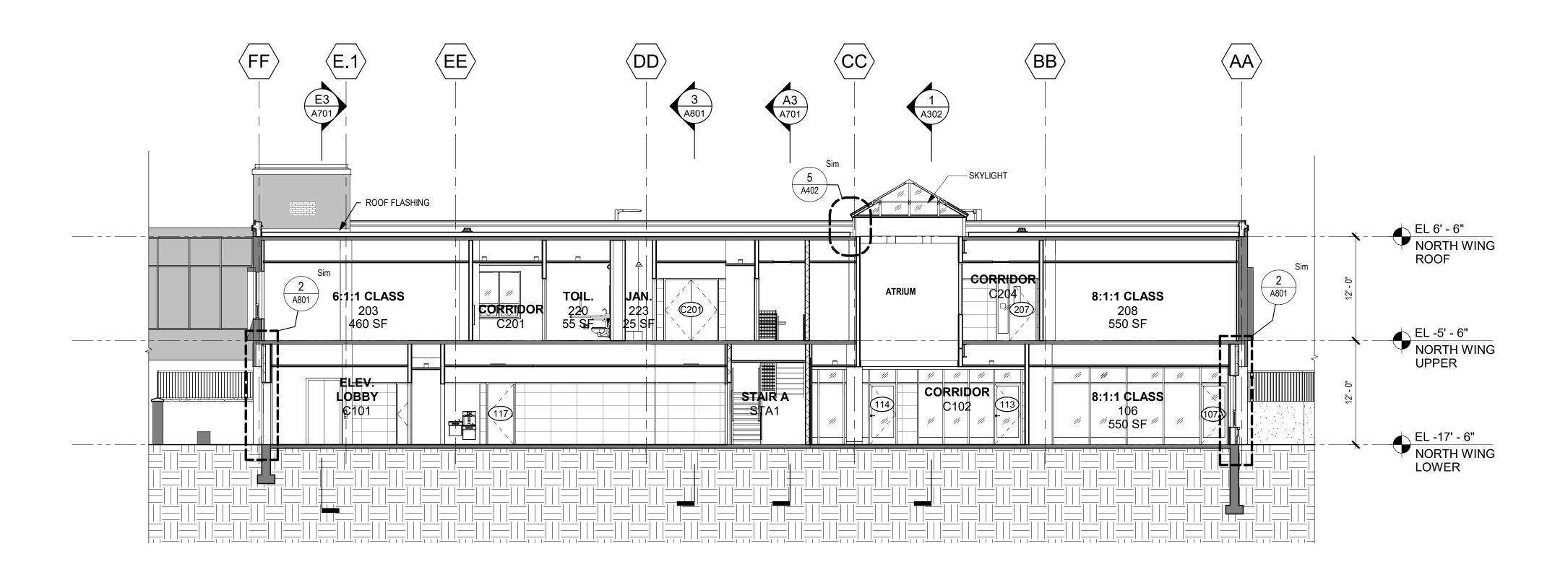


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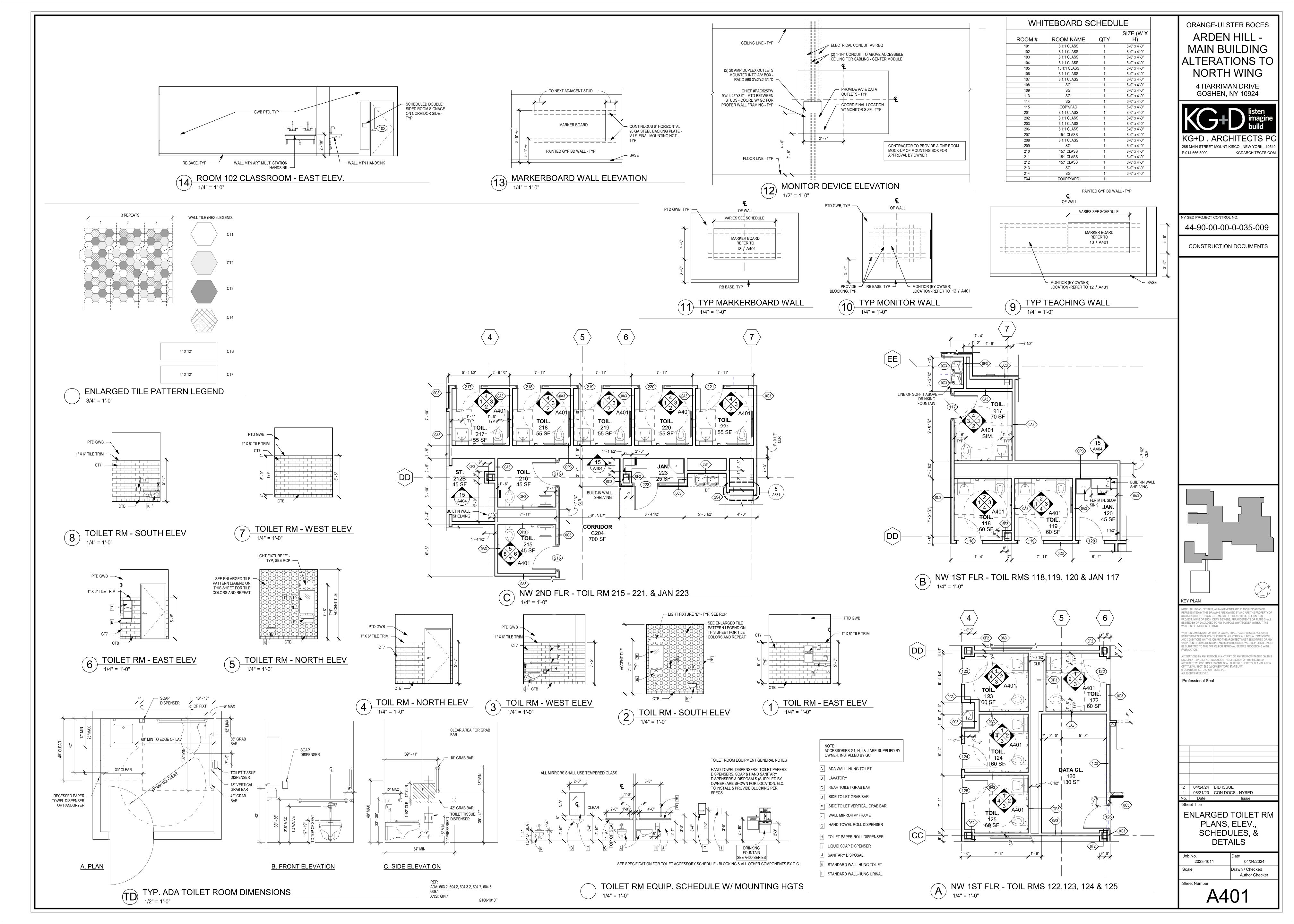


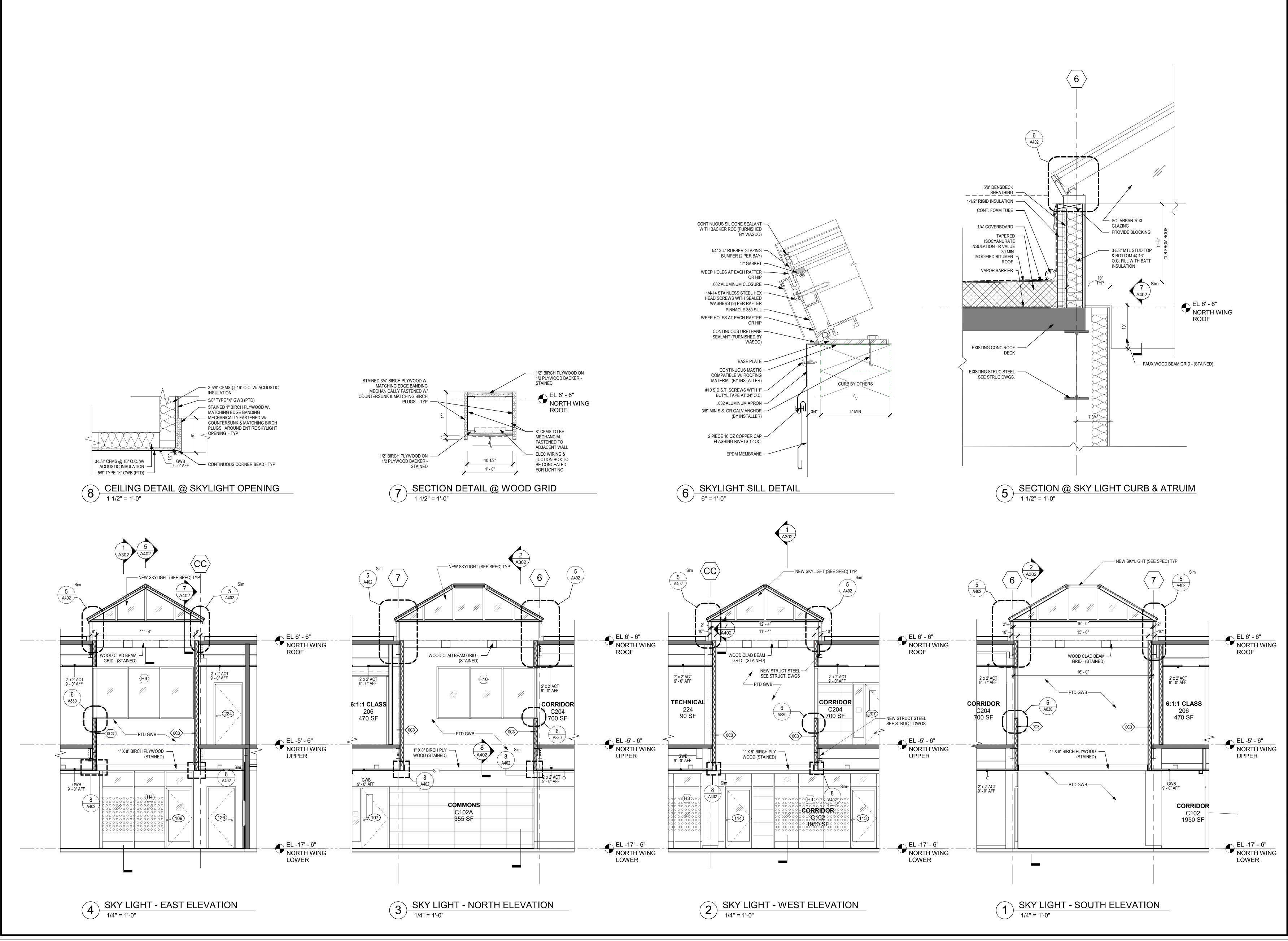


1 BUILDING SECTION LOOKING SOUTH 1/8" = 1'-0"

2 BUILDING SECTION LOOKING WEST

ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D. WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUS BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. © COPYRIGHT KG+D ARCHITECTS, PC . ALL RIGHTS RESERVED. Professional Seal 04/24/24BID ISSUE08/21/23CON DOCS - NYSEDDateIssue Sheet Title **BUILDING SECTIONS** Job No. Date 04/24/2024 2023-1011 Drawn / Checked Scale Author Checker Sheet Number A302

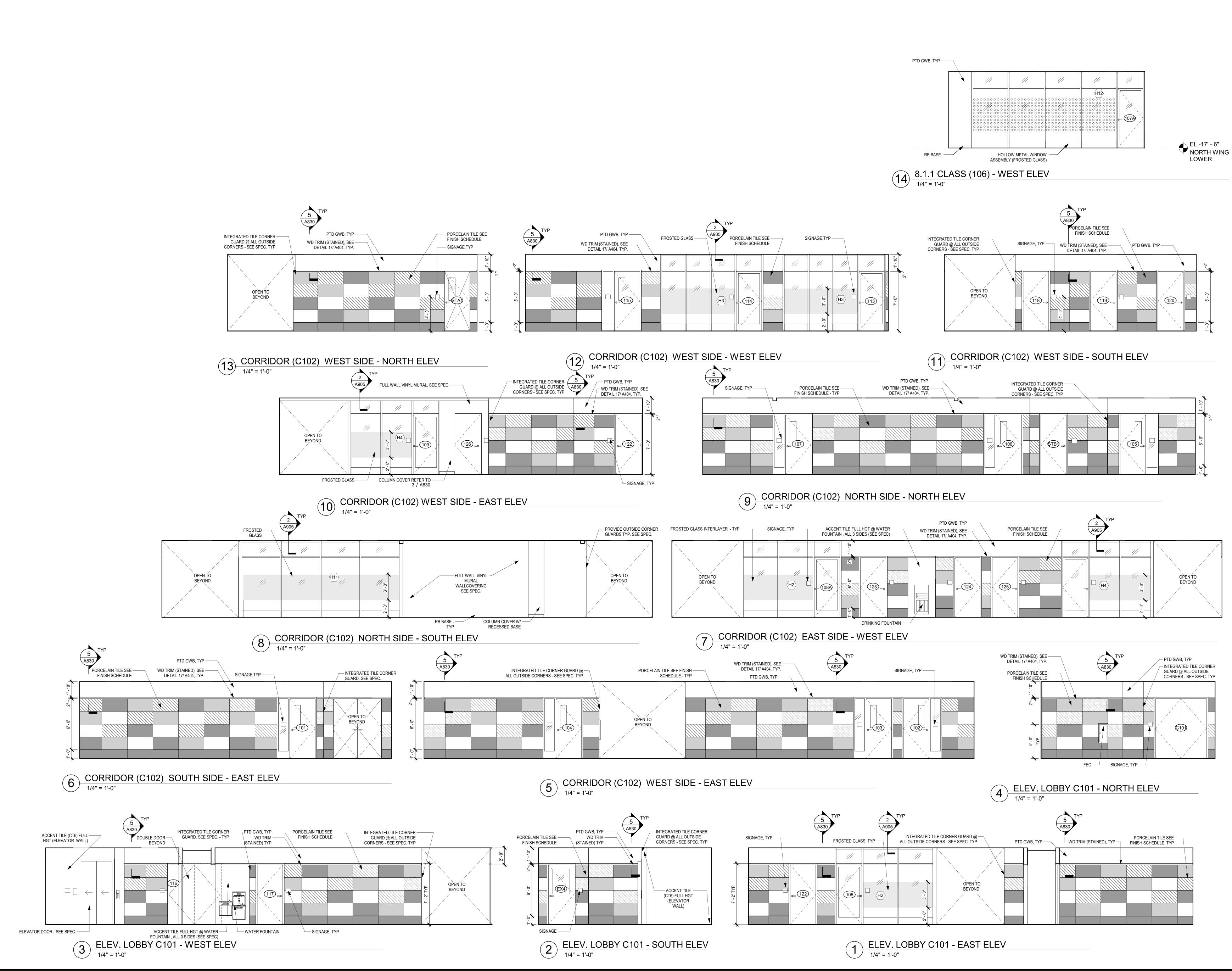




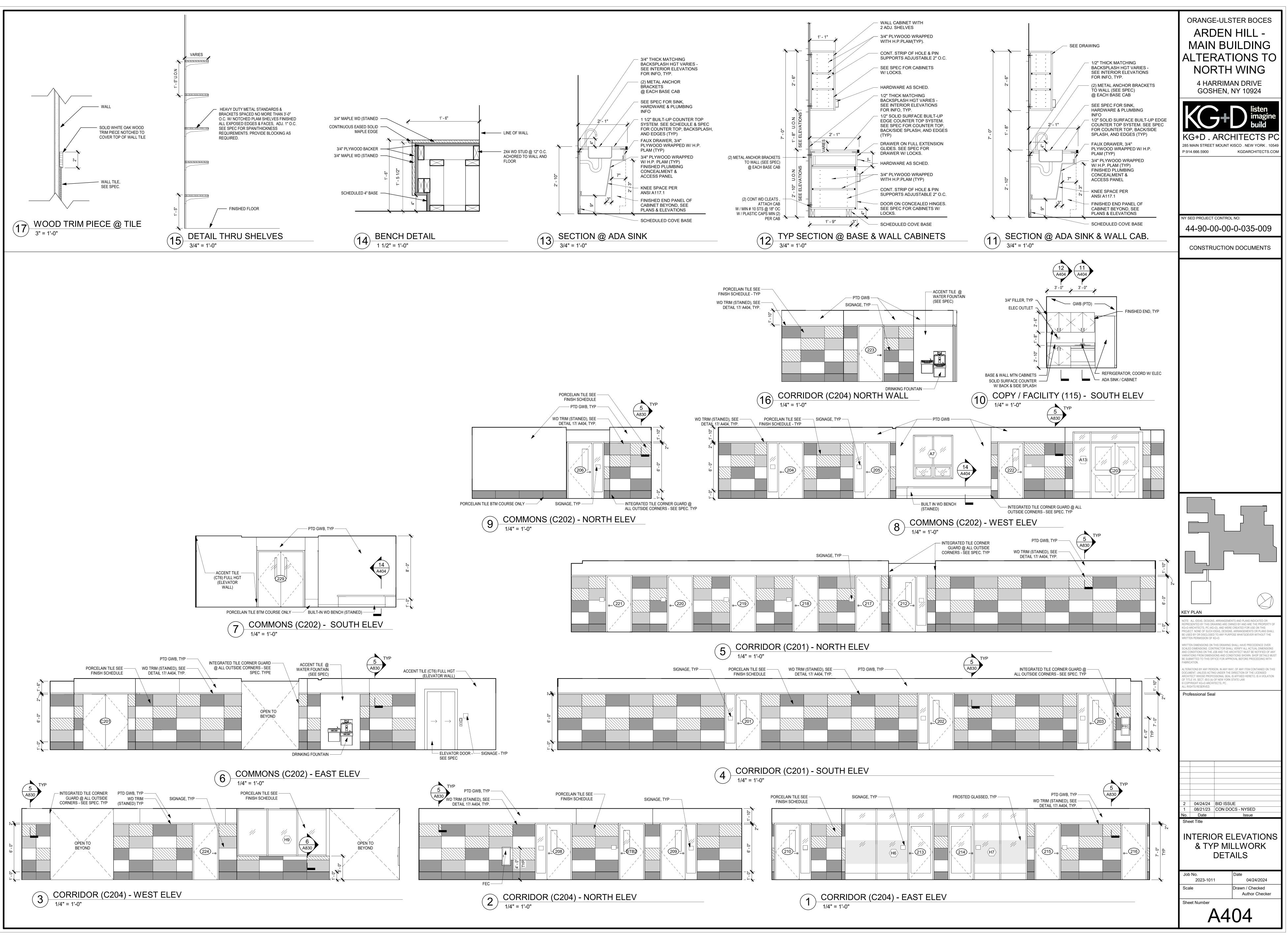


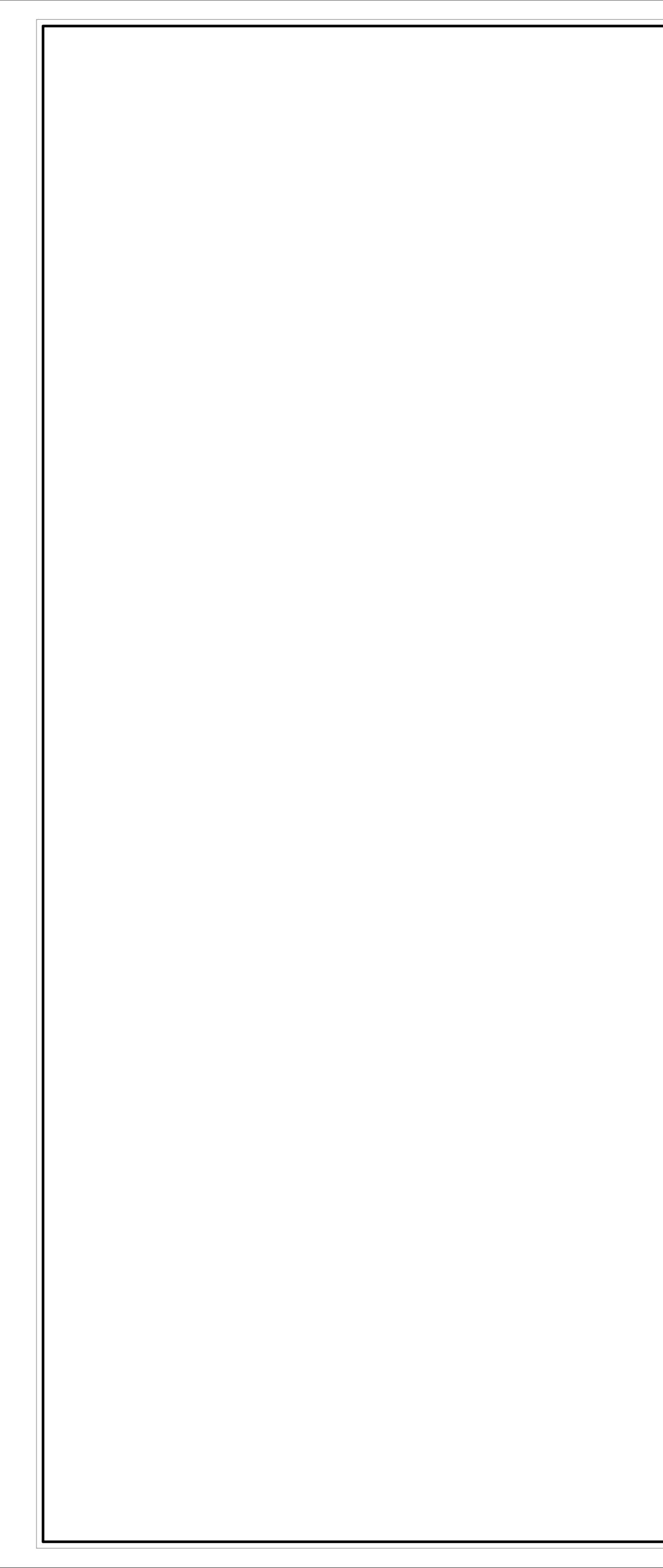
ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING **4 HARRIMAN DRIVE** GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 KGDARCHITECTS.COM P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS EY PLAN IOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR PRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY C D ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS ROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHA IE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE TTEN PERMISSION OF KG+D. TEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OV LED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN TIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS IN SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH BRICATION. FERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON TH CUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED RCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATIC FTITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. DPYRIGHT KG+D ARCHITECTS, PC . RIGHTS RESERVED. Professional Seal
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ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 KGDARCHITECTS.COM P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS WALL TILE LEGEND: PTI PT2 ____ PT3 PT4 \leq EY PLAN TE⁺ ALL IDEAS DESIGNS ARRANGEMENTS AND PLANS INDICATED OR RESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS OJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHA ISED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THI TEN PERMISSION OF KG+D. I DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENC ED DIMENSIONS, CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIO CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF A ATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH ABRICATION. FERATIONS BY ANY PERSON. IN ANY WAY, OF ANY ITEM CONTAINED ON T DCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED RCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO. IS A VIOLAT F TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. OPYRIGHT KG+D ARCHITECTS, PC . RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Date Issue Sheet Title INTERIOR ELEVATIONS Job No. Date 04/24/2024 2023-1011 Drawn / Checked Scale Author Checker Sheet Number A403





ROOM #	ROOM NAME	BASE
101	8:1:1 CLASS 8:1:1 CLASS	RB3
102 103	8:1:1 CLASS 8:1:1 CLASS	RB3 RB3
103	6:1:1 CLASS	RB3
105	15:1:1 CLASS	RB3
106	8:1:1 CLASS	RB3
107	8:1:1 CLASS	RB3
108	SGI	RB1
109	SGI	RB1
113	SGI	RB1
114	SGI	RB1
115	COPY/FAC	RB1
116	MECHANICAL ROOM	RB3
117	TOIL.	CTB
118 119	TOIL. TOIL.	CTB CTB
119	JAN.	СТВ
120	TOIL.	CTB
122	TOIL.	СТВ
123	TOIL.	СТВ
125	TOIL.	СТВ
126	DATA CL.	RB2
127	VESTIBULE	RB3
200A	CORRIDOR	PT4
201	8:1:1 CLASS	RB3
202	8:1:1 CLASS	RB3
203	6:1:1 CLASS	RB3
204	OFFICE	RB1
205	OFFICE	RB1
206	6:1:1 CLASS	RB3
207	15:1 CLASS	RB3
208	8:1:1 CLASS	RB3
209	SGI	RB3
210	15:1 CLASS	RB3
211	15:1 CLASS 15:1 CLASS	RB3
212 212B	ST.	RB3 RB3
2126	SGI	RB3
213	SGI	RB3
215	TOIL.	CTB
216	TOIL.	СТВ
217	TOIL.	СТВ
218	TOIL.	СТВ
219	TOIL.	СТВ
220	TOIL.	СТВ
221	TOIL.	СТВ
222	SECURITY	RB3
223	JAN.	СТВ
224	TECHNICAL	RB2
C101	ELEV. LOBBY	PT4
C102	CORRIDOR	PT4
C102A	COMMONS	PT4
C201	CORRIDOR	PT4
C201	COMMONS	PT4 PT4
C202	VESTIBULE	PT4
C203	CORRIDOR	PT4
EX4	COURTYARD	+
OS3	8:1:1 CLASS	RB3
STA1	STAIR A	RB3/PT4
STA2	STAIR A	RB3/PT4
STB1	STAIR B	RB3/PT4
		1

ACCENT ACT* AFF СВ CMU CPT*

CT CTB EPO

ΕX

FINISH SCHEDULE ABBREVIATIONS ACCENT PAINT COLOR ACOUSTIC CEILING TILE ABOVE FINISH FLOOR CEMENT BOARD CONCRETE MASONRY UNIT FF CARPET CERAMIC TILE CERAMIC TILE BASE EPOXY PAINT

EXISTING MATERIAL

EX-ACT EX-H EVT* FRP GL



FLC	OOR	NO	RTH WALL	EA	ST WALL	SOI	JTH WALL	WF	STWALL			
											CEILIN	G
E	FLOOR	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	H
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2 CPT2	GWB GWB	PTD PTD	GWB GWB	PTD PTD	GWB GWB	PTD PTD	GWB GWB	PTD PTD	ACT ACT	FF FF	9'-0" 9'-0"
	CPT2 CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT1	GWB	PTD	GWB/WW	PTD	GWB/WW	PTD	GWB/WW	PTD	ACT	FF	9'-0"
	CPT1	GWB/WW	PTD	GWB/WW	PTD	GWB	PTD	GWB/WW	PTD	ACT	FF	9'-0"
	CPT1	GWB	PTD	GWB/WW	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT1	GWB	PTD	GWB/WW	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT1	GWB	PTD	GWB/WW	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	EX	GWB	PTD	GWB	PTD	EX	PTD	EX	PTD	EX	-	OTS
	PT5	CB	CT1,2,3,4,	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB	CT1,2,3,4	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5 PT5	CB/GWB GWB	CT5/PTD EP	CB/GWB GWB	CT5/PTD EP	CB GWB	CT1,2,3,4 EP	CB/GWB GWB	CT5/PTD EP	GWB EX	PTD	9'-0" OTS
	PT5 PT5	GWB CB/GWB	CT5/PTD	CB	CT1,2,3,4	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	- PTD	9'-0"
	PT5	CB/GWB CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB CB/GWB	CT5/PTD	CB/GWB	CT1,2,3,4	GWB	PTD	9'-0"
	PT5	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB	CT1,2,3,4	GWB	PTD	9'-0"
	PT5	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB	CT1,2,3,4	GWB	PTD	9'-0"
	HLVT	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	WOM	GWB	PTD	GWB/WW	PTD	GWB	PTD	GWB/WW	PTD	GWB	PTD	9'-0"
	PT5	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB		CB,GWB	CT6/PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	ACT/GWB	FF/PTD	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2 CPT1	GWB GWB	PTD PTD	GWB GWB	PTD PTD	GWB GWB	PTD PTD	GWB GWB	PTD PTD	ACT ACT	FF FF	9'-0" 9'-0"
	CPT1	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT/GWB	FF	9'-0"/8'-8"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT/GWB	FF / PTD	9'-0" / 8'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT/GWB	FF / PTD	9'-0" / 8'-0"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	9'-0"
	CPT2 CPT2	GWB/WW GWB	PTD PTD	GWB GWB	PTD PTD	GWB GWB	PTD PTD	GWB/WW GWB/WW	PTD PTD	ACT ACT	FF FF	9'-0" 9'-0"
	PT5	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB	CT1,2,3,4	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5	CB	CT1,2,3,4,	CB/GWB	CT5/PTD	CB,GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5	CB	CT1,2,3,4,	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5	CB	CT1,2,3,4,	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5	СВ	CT1,2,3,4,	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5	СВ	CT1,2,3,4,	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	PT5	СВ	CT1,2,3,4,	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	CB/GWB	CT5/PTD	GWB	PTD	9'-0"
	WOM	GWB	PTD	GWB	PTD	EX	PTD	GWB	PTD	ACT	FF	9'-0"
	PT5	GWB	EP	GWB	EP	GWB	EP	GWB	EP	EX	-	OTS
	HLVT HLVT	GWB CB,GWB	PTD PT1,PT2,PT3,PTD	GWB CB,GWB	PTD PT1,PT2,PT3,PTD	GWB CB,GWB	PTD CT6/PT1,PT2,PT3,PTD	GWB CB,GWB	PTD PT1,PT2,PT3,PTD/CT6	ACT ACT	FF FF	9'-0" 9'-0"
	HLVT	CB,GWB CB,GWB	PT1,PT2,PT3,PTD PT1,PT2,PT3,PTD	CB,GWB CB,GWB	PT1,PT2,PT3,PTD PT1,PT2,PT3,PTD	CB,GWB CB,GWB	PT1,PT2,PT3,PTD	CB,GWB CB,GWB	PT1,PT2,PT3,PTD/CT6	ACT/GWB	FF / PTD	9'-0"/8'-8"
	CPT1	GWB	PTD	GWB	VWC	GWB	VWC			GWB/WD BEAM	PTD/STAIN	9'-0"
	HLVT	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	ACT/GWB	FF/PTD	9'-0"/8'-8"
	PT5	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD/CT6		CT6/PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	ACT/GWB	FF/PTD	9'-0"
	WOM	EX-BR		GWB/WW	PTD/FF	EX-BR		GWB/WW	PTD/FF	GWB	PTD	9'-0"
	HLVT/PT5	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	CB,GWB	PT1,PT2,PT3,PTD	ACTGWB	FF/PTD	9'-0"8'-8"
	CPT2	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT	FF	9'-0"
	RT1/RTR	GWB/EX	PT2	СВ	PT2	CB/EX	PT2	EX	PT2	GWB	PTD	9'-6"
			PT2	СВ	PT2	СВ	PT2	EX	PT2	ACT	FF	9'-0"
		EX	PT2	EX	PT2	EX	PT2	EX	PT2	GWB	PTD	9'-6"/7'-0"
		EX	PT2	EX	PT2	EX	PT2	EX	PT2	ACT	FF	9'-0"

3	GWB MEP	
2	MH OTS PTD	
	PT* RB	
	RT	

GYPSUM WALL BOARD MECHANICAL, ELECTRICAL AND PLUMBING MATCH EXISTING HEIGHT OPEN TO STRUCTURE PAINT / PAINTED PORCLAIN TILE RUBBER BASE RUBBER TILE

RCP SCH Τ* TT VCT LVT WD WDP

REFLECTED CEILING PLAN SCHLUTER ALUMINUM COVE BASE TILE TERRAZZO TILE VINYL COMPOSITE TILE (LUXURY) VINYL TILE WOOD WOOD PANEL

> ARE DISTURBED, TYP. FOR ROOMS LABEL MH - MATCH CEILING HEIGHT W/ EXIST HEIGHT. CONSULT W/ ARCHITECT BEFORE INSTALL - TYP

> CEILING HEIGHTS SHOWN IN CEILING PLANS, SECTIONS & DETAILS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ON SCHEDULE. PATCH & MATCH TO EXISTING ADJACENT FINISHES WHEN WALLS/SURFACES

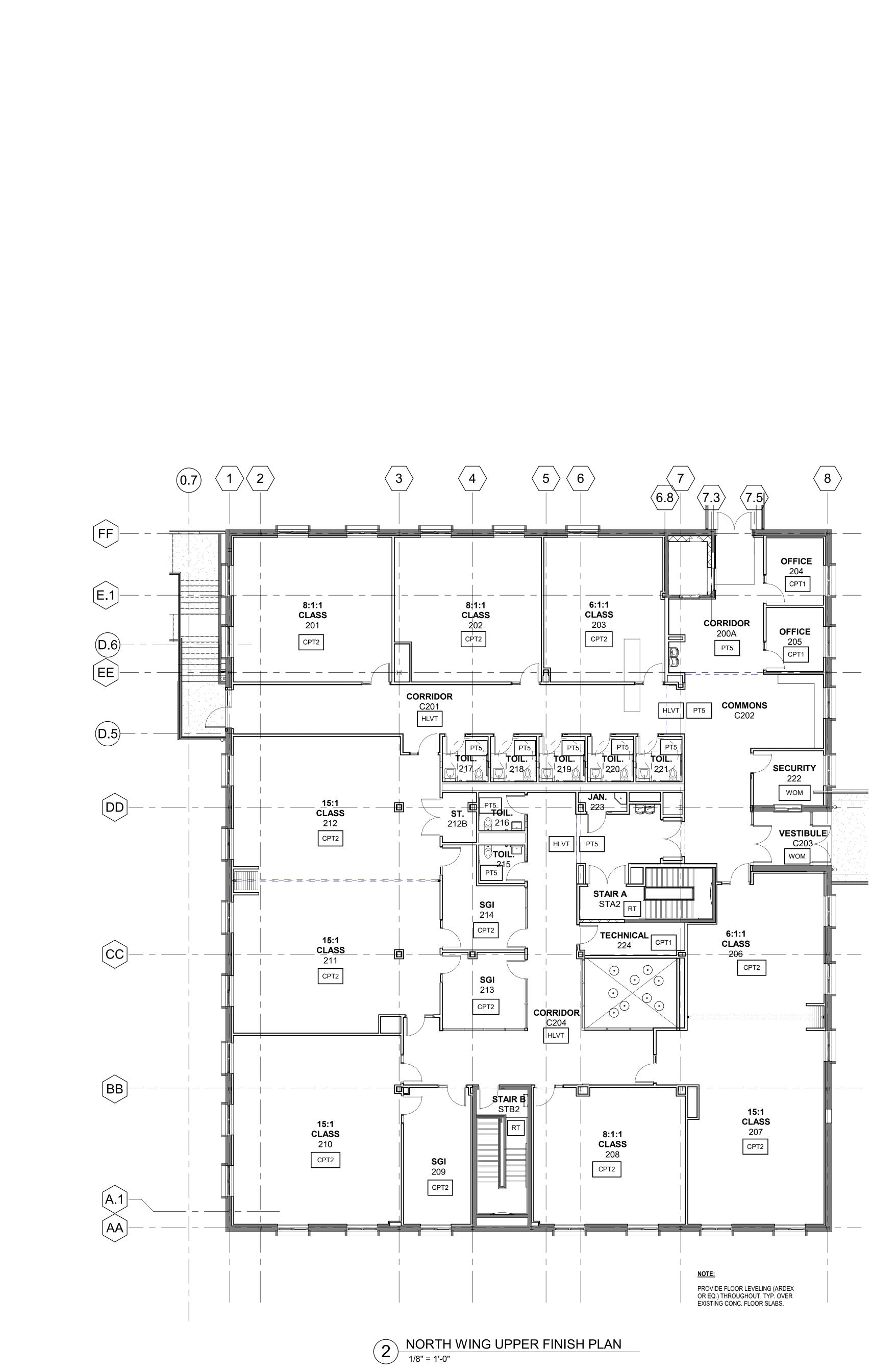
FINISHES [-] DASH INDICATES SURFACE TO REMAIN AS IS & PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION

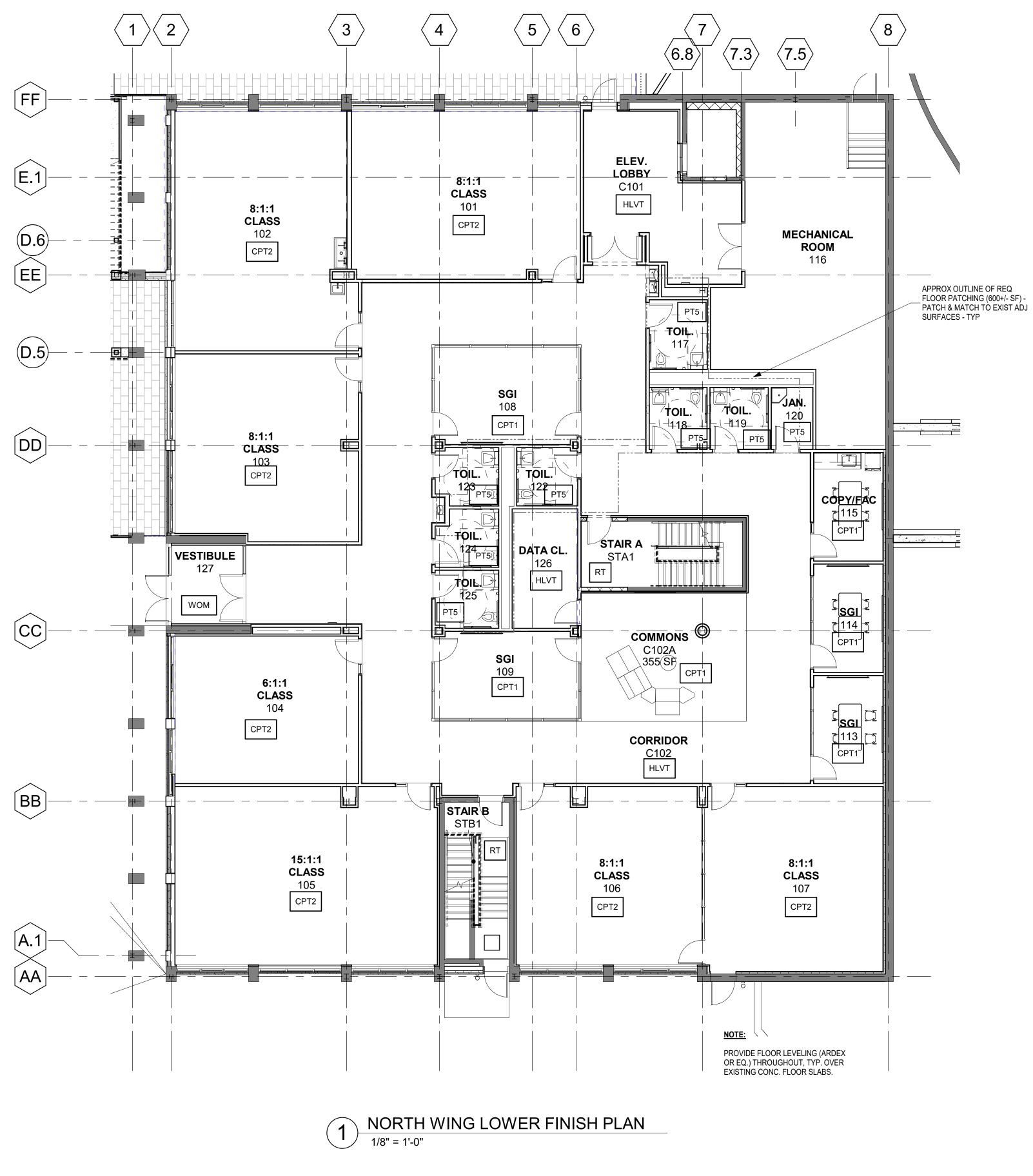
<u>NOTE :</u> [*] NUMBER INDICATES STYLE - REFER TO SPEC FOR MORE INFORMATION ON

FINISH SCHEDULE GENERAL NOTES:

ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS \leq KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR INUTE: ALL IUEAS, UESIGNS, ARKANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG-D ARCHITECTS, PC (KG-D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D. WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS ACHIEVENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. OPYRIGHT KG+D ARCHITECTS, PC . RIGHTS RESERVED. Professional Seal
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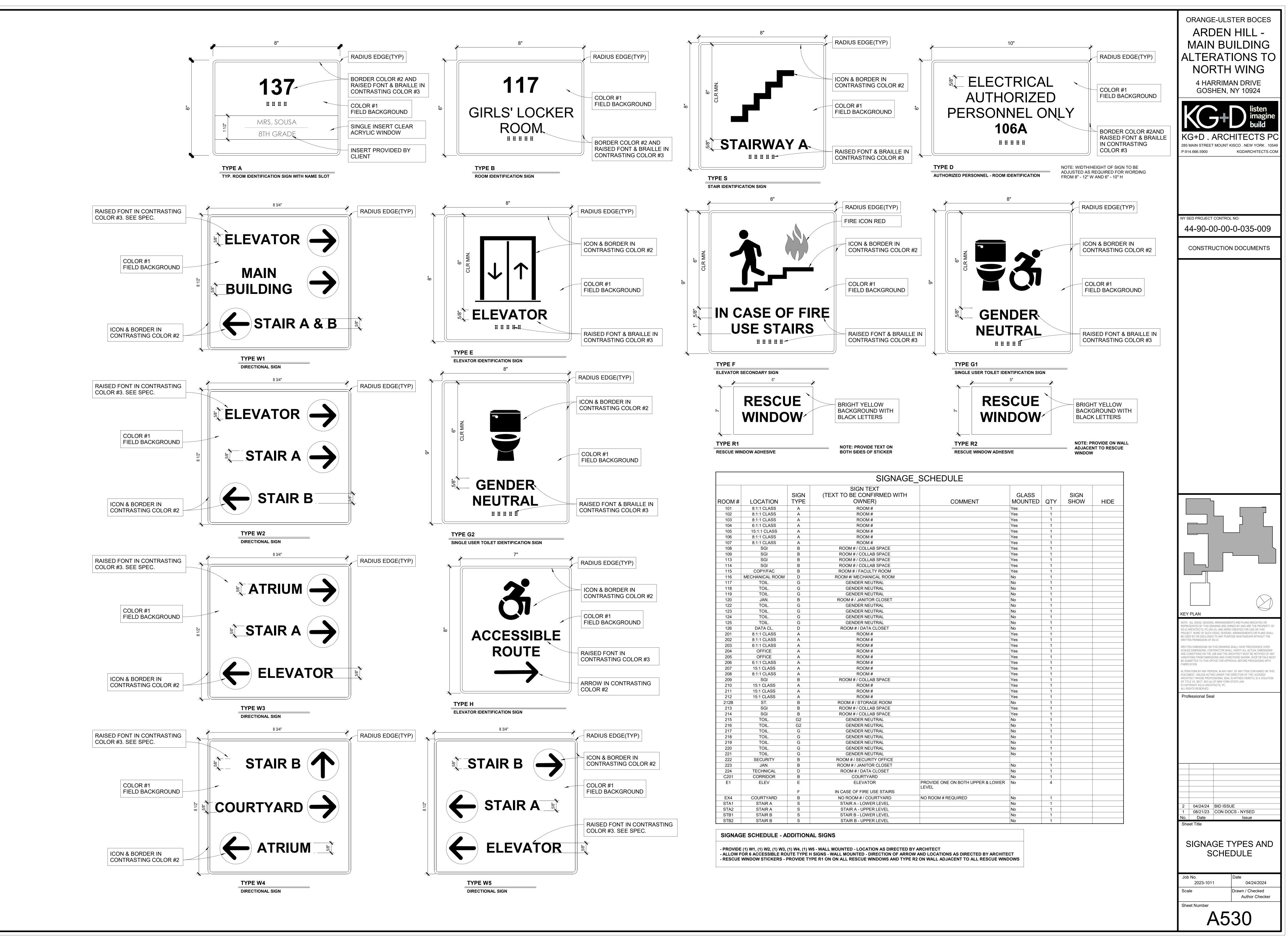
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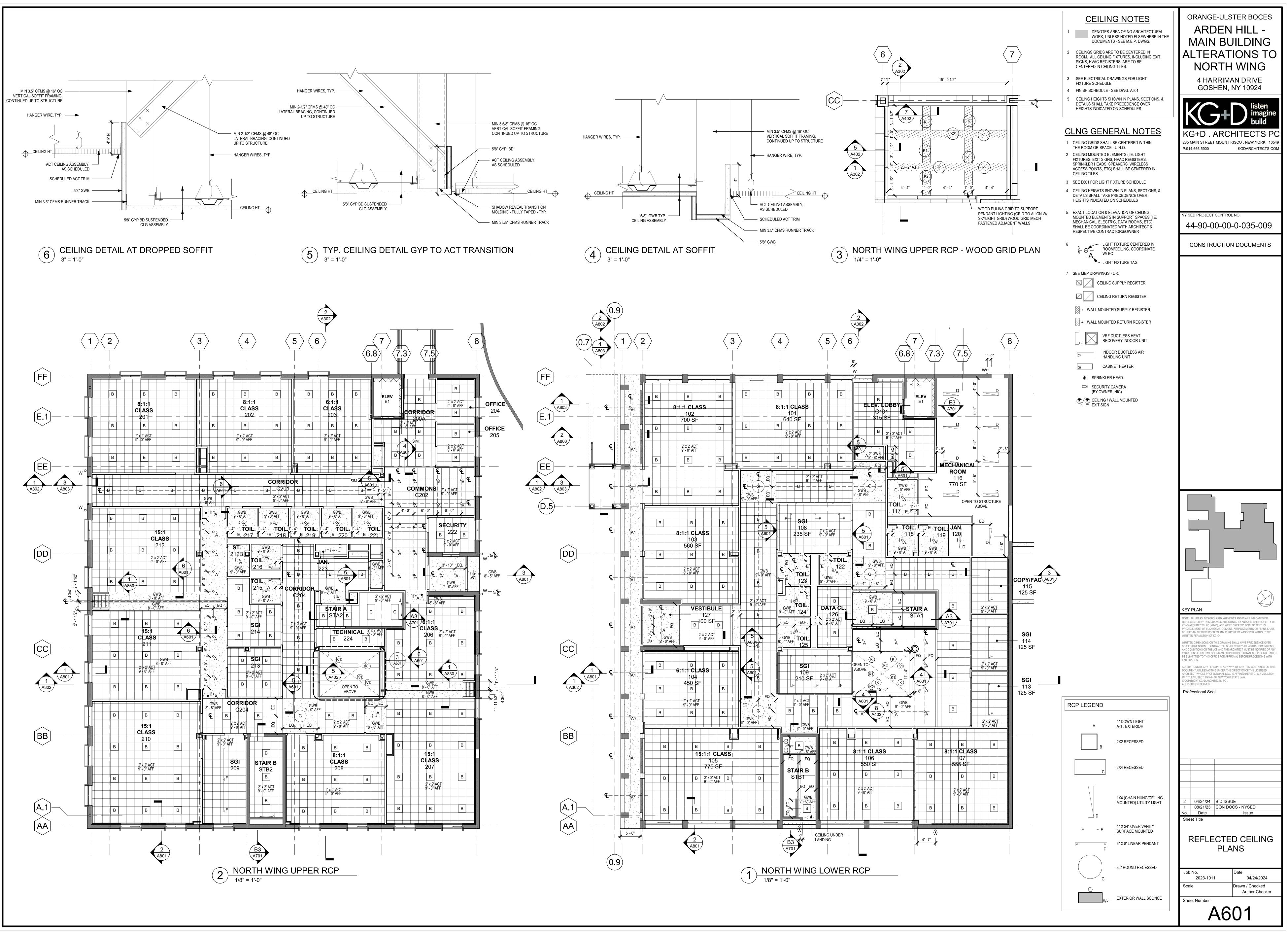


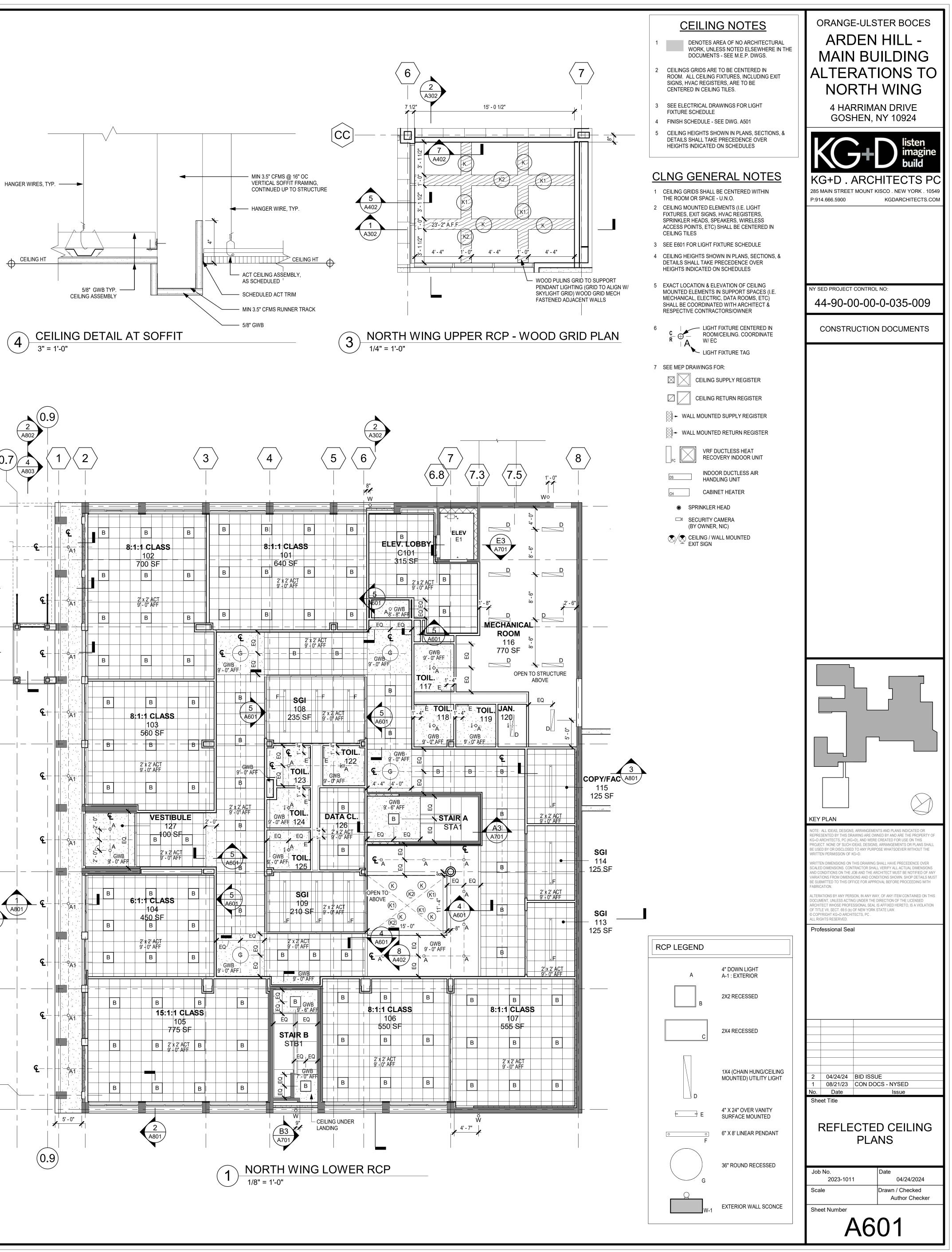


ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR EPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY C KG+D ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE VRITTEN PERMISSION OF KG+D. RITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MU BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. COPYRIGHT KG+D ARCHITECTS, PC . L RIGHTS RESERVED. Professional Seal
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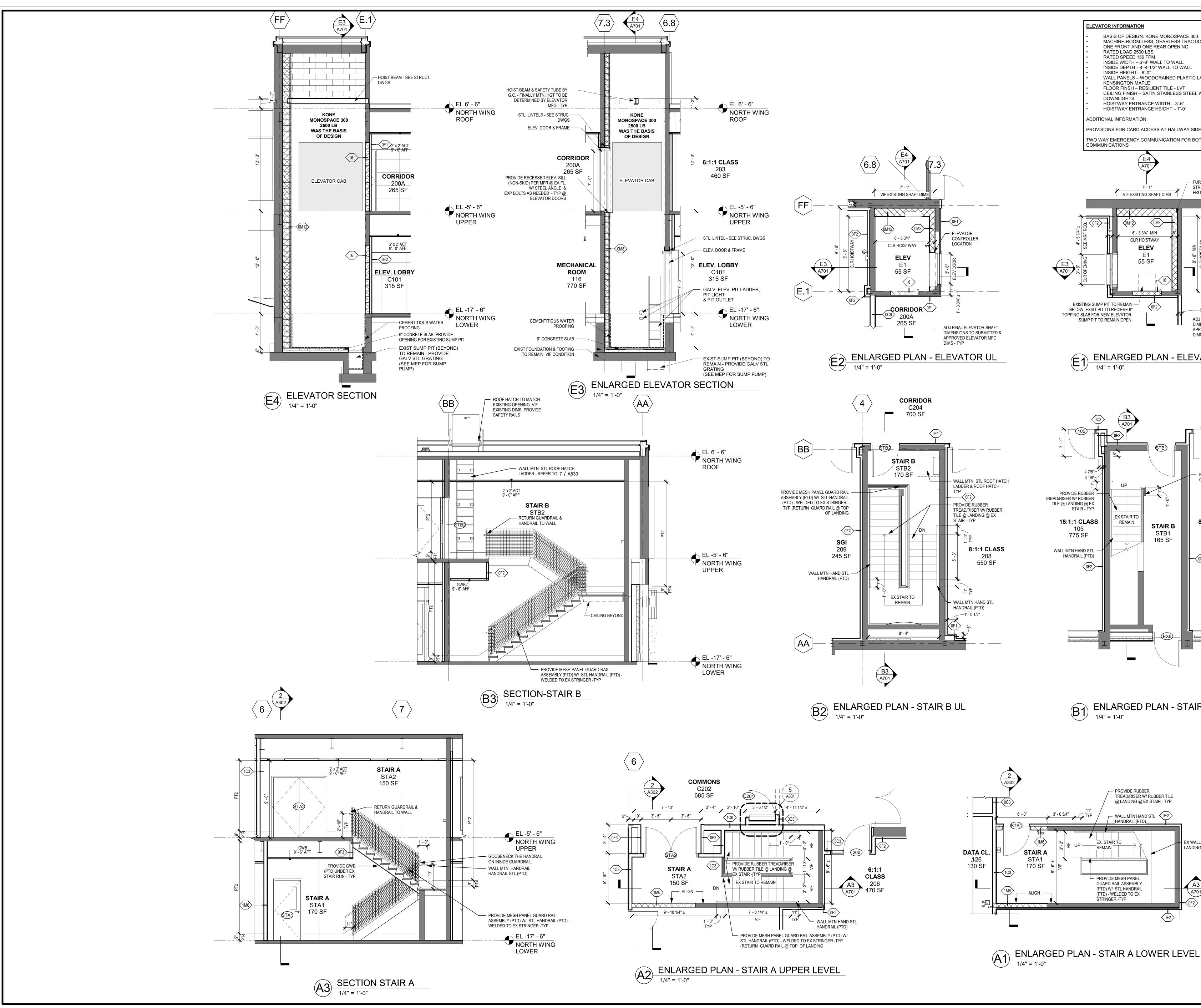
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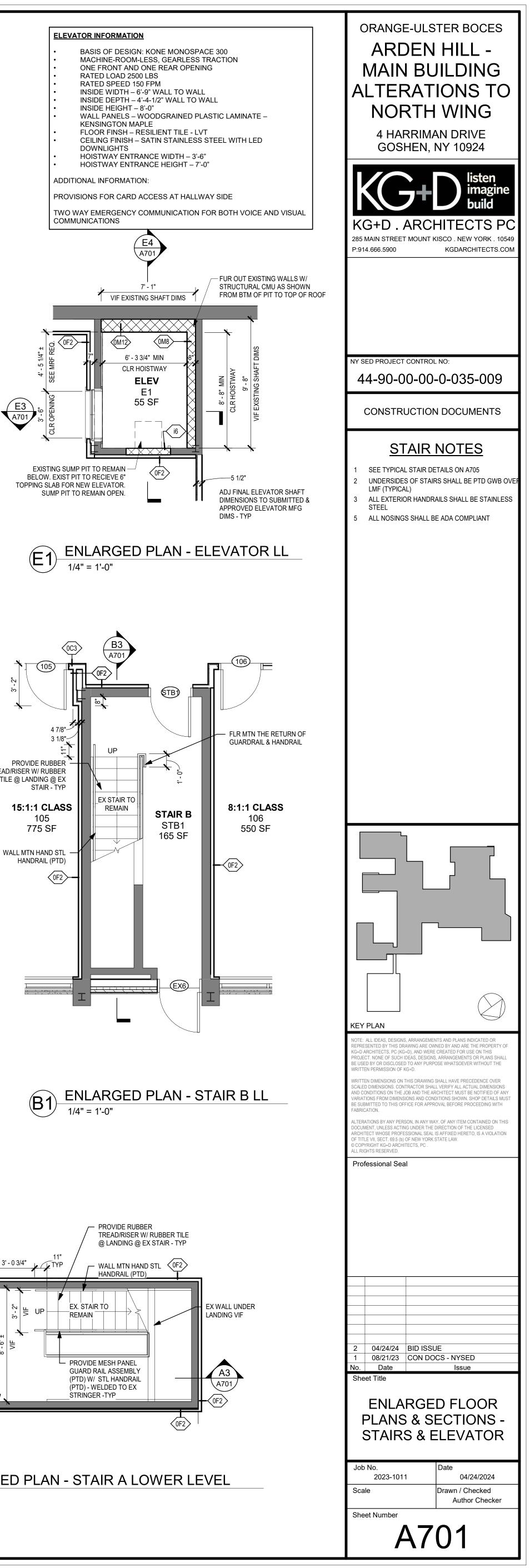


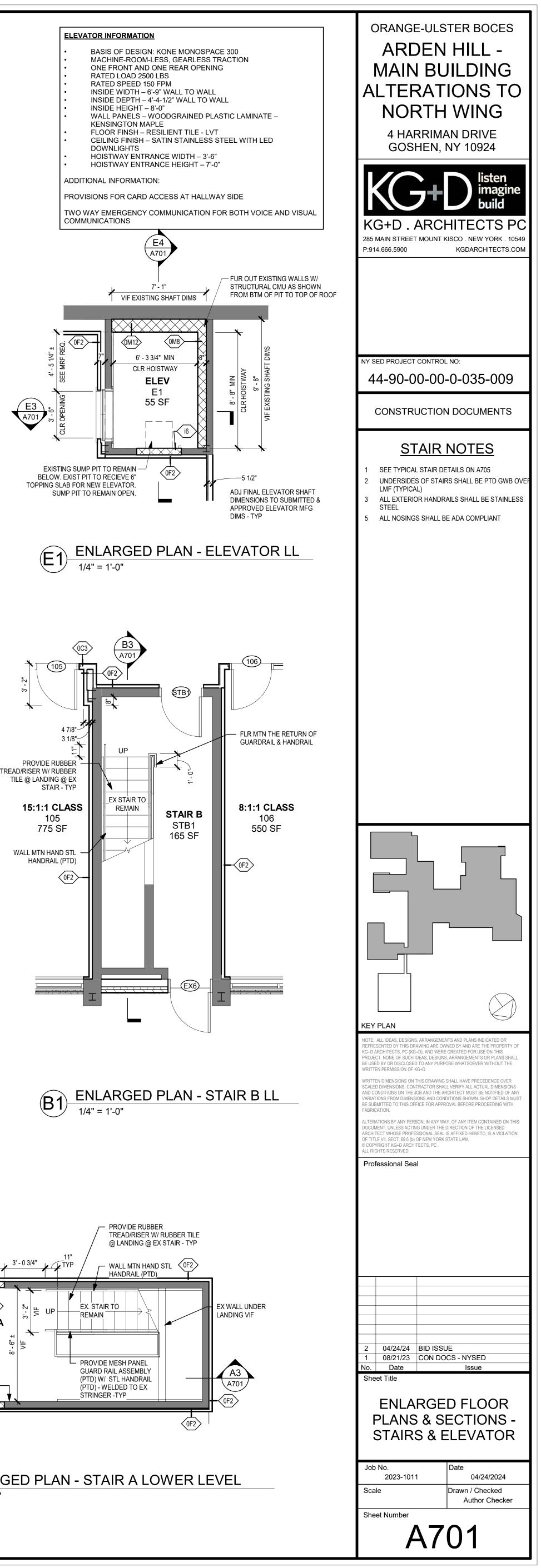


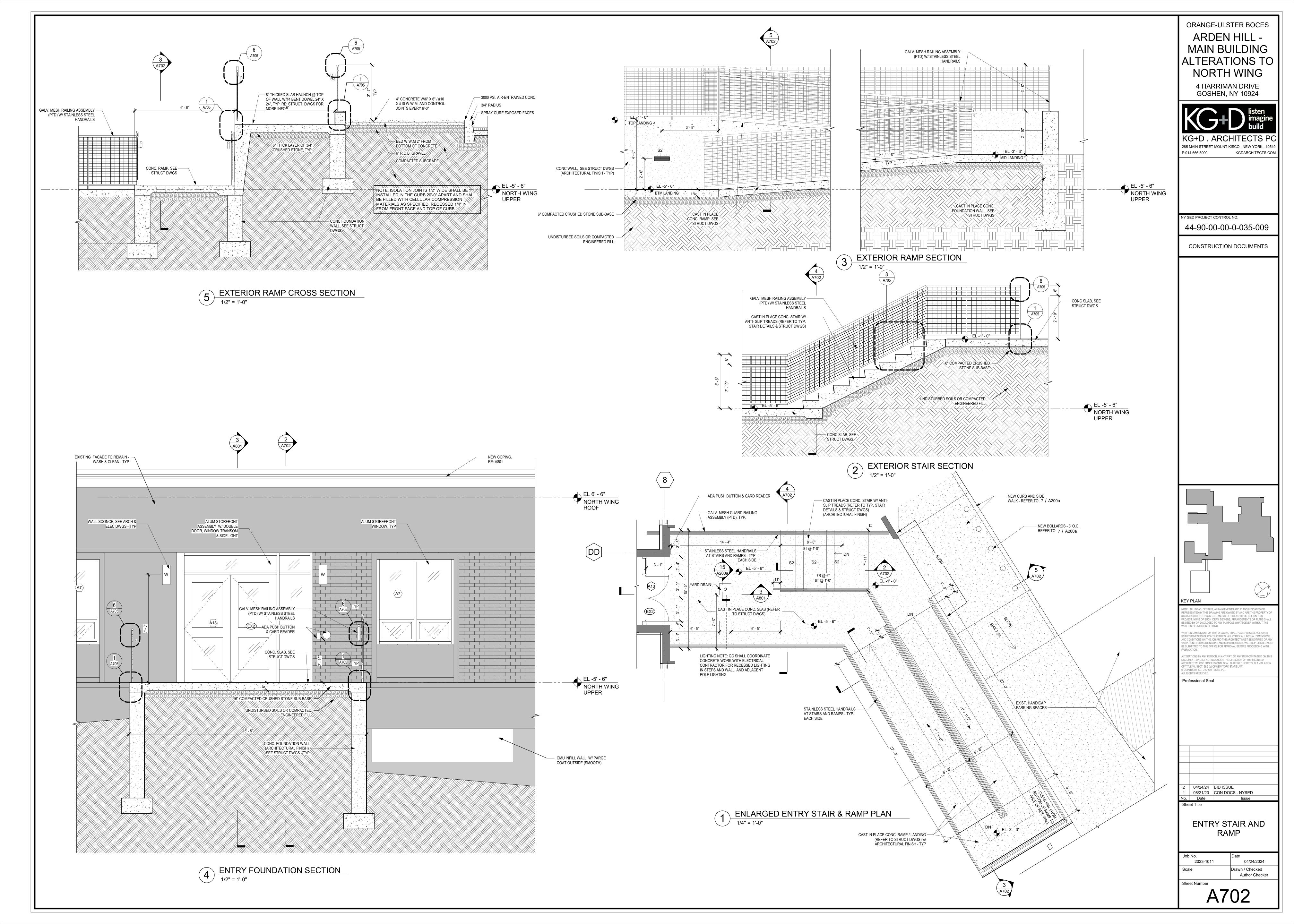


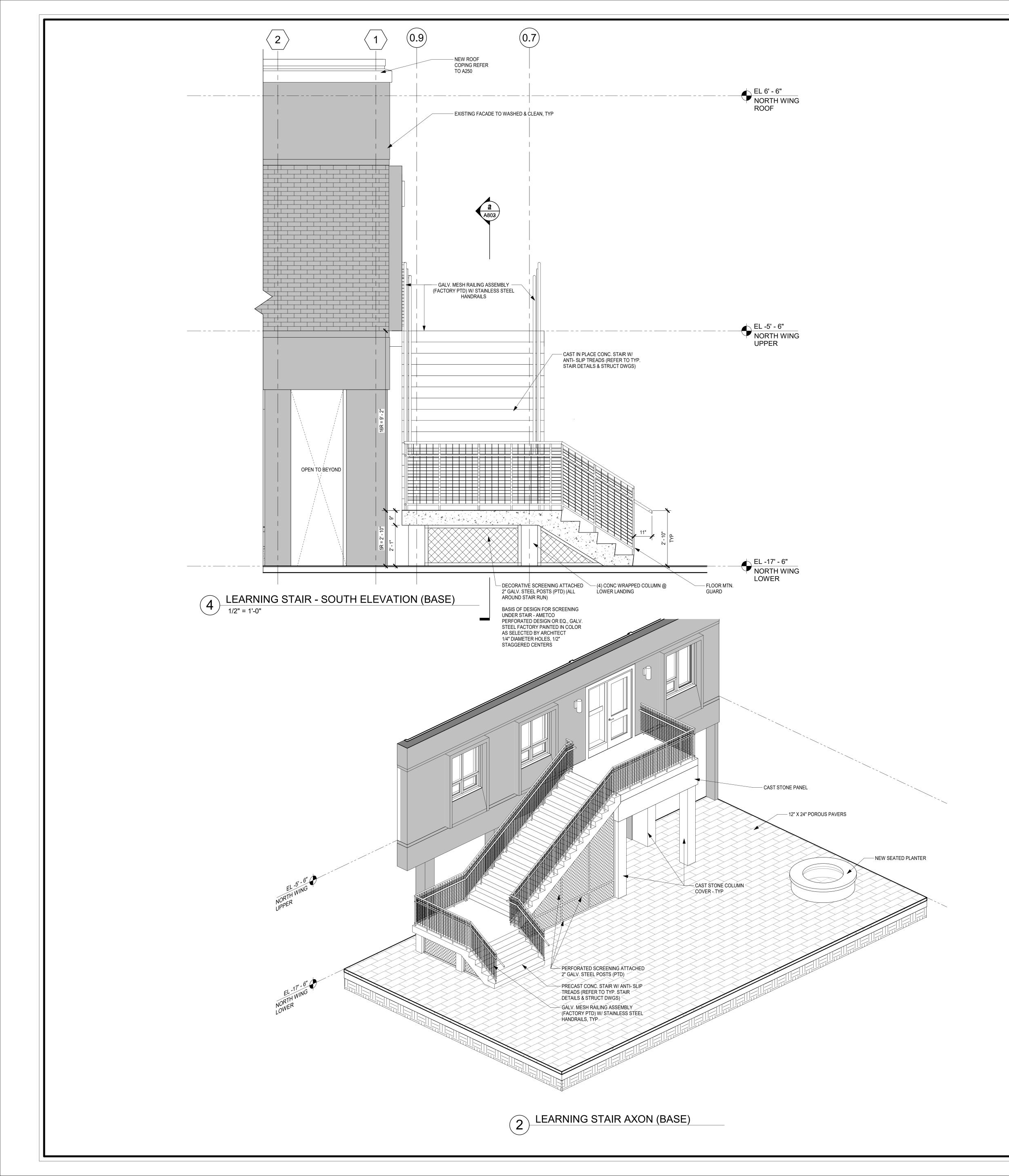




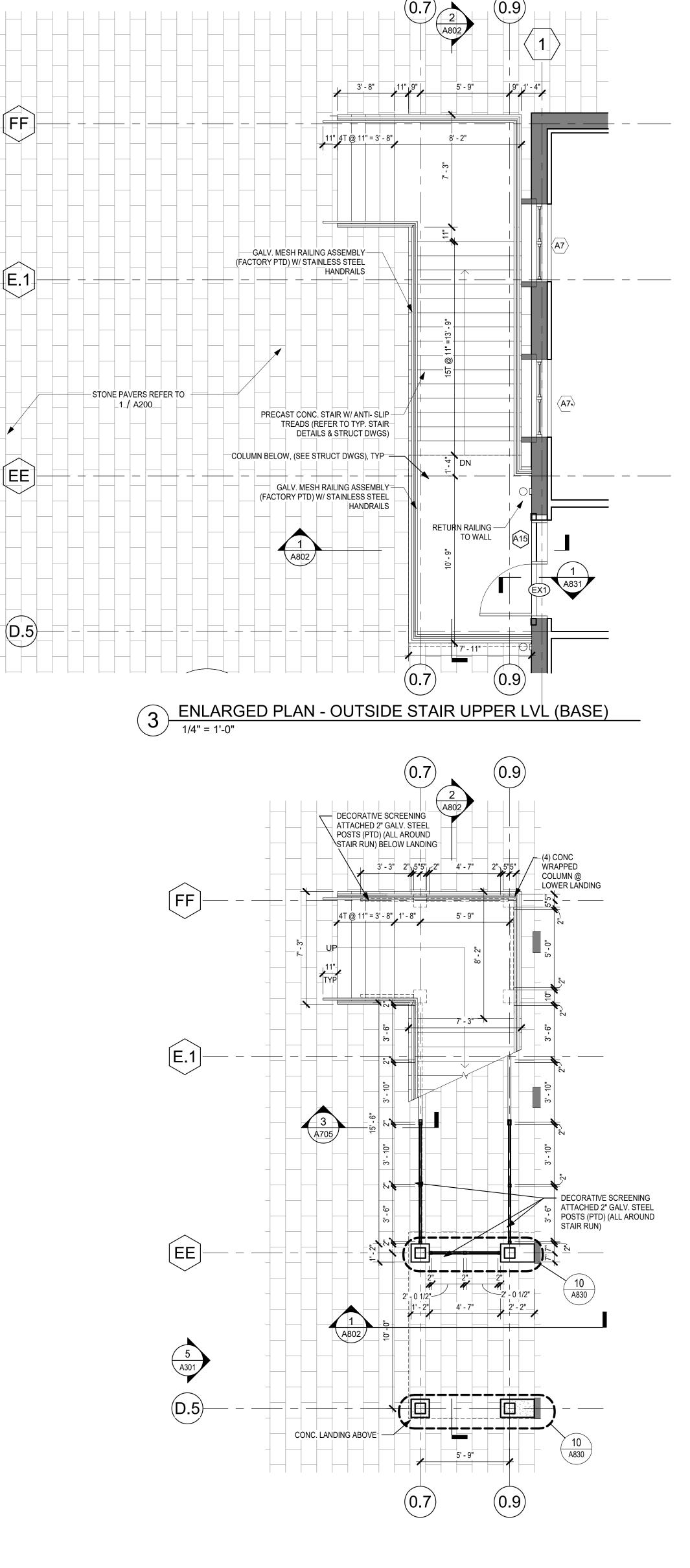












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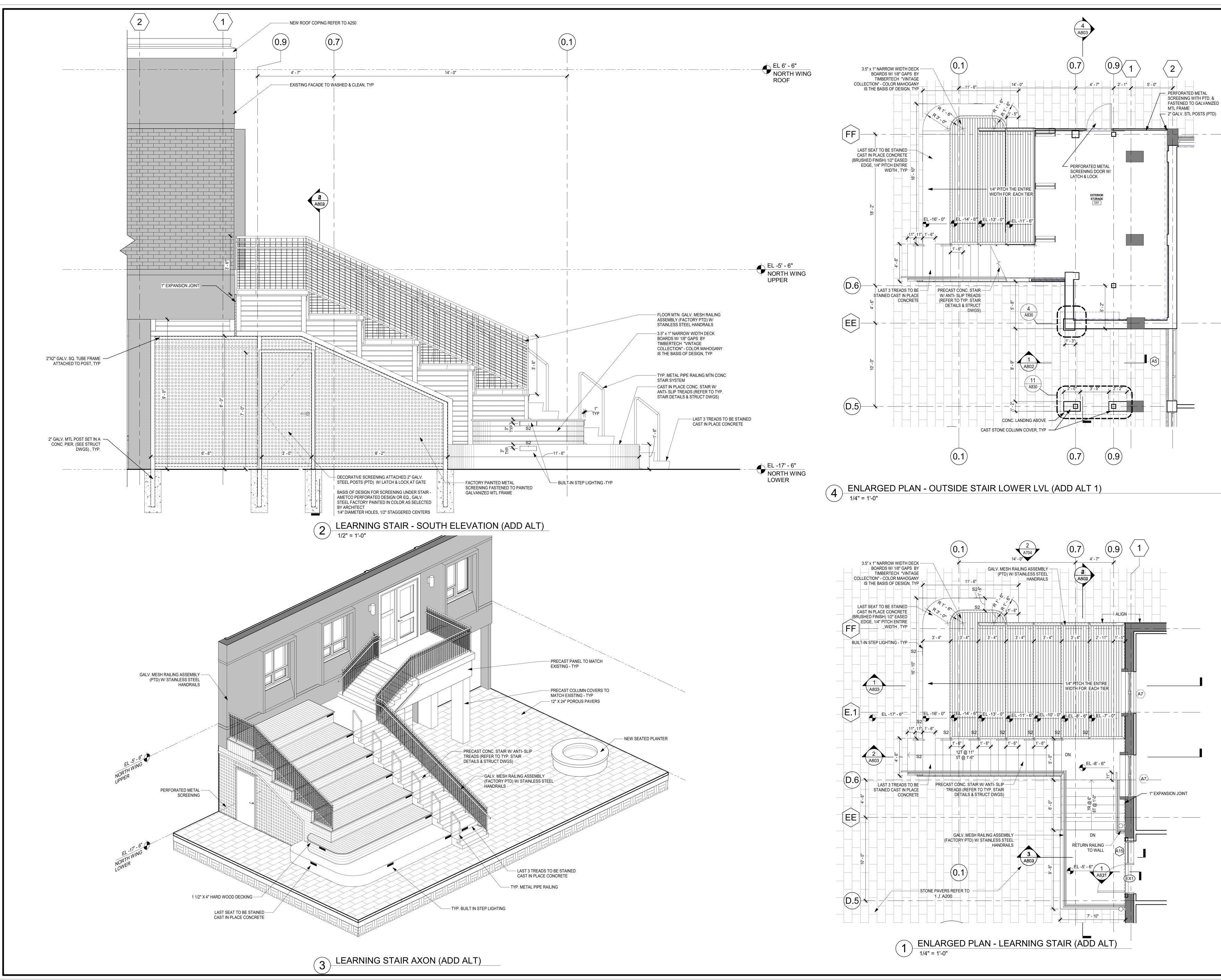
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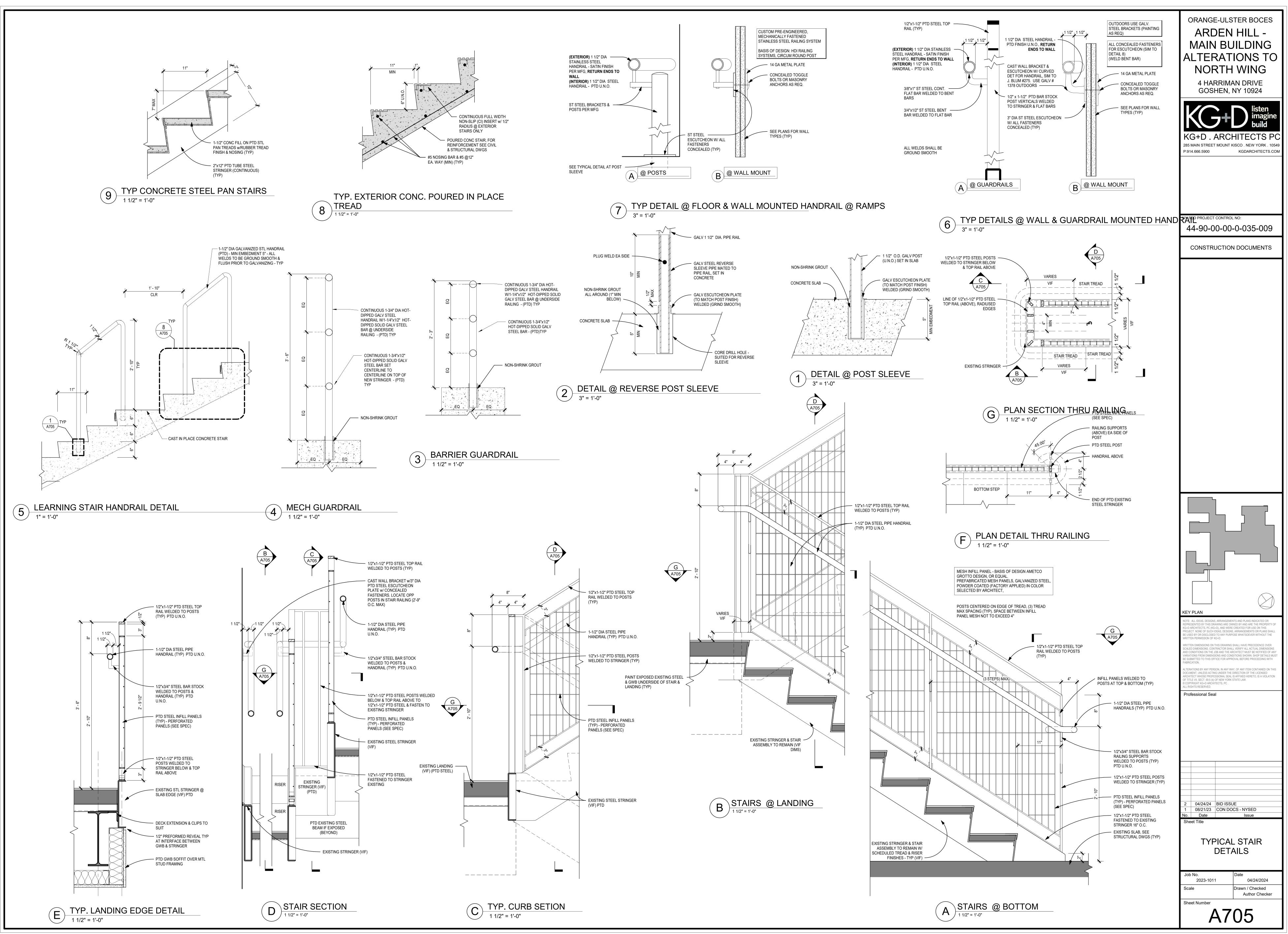
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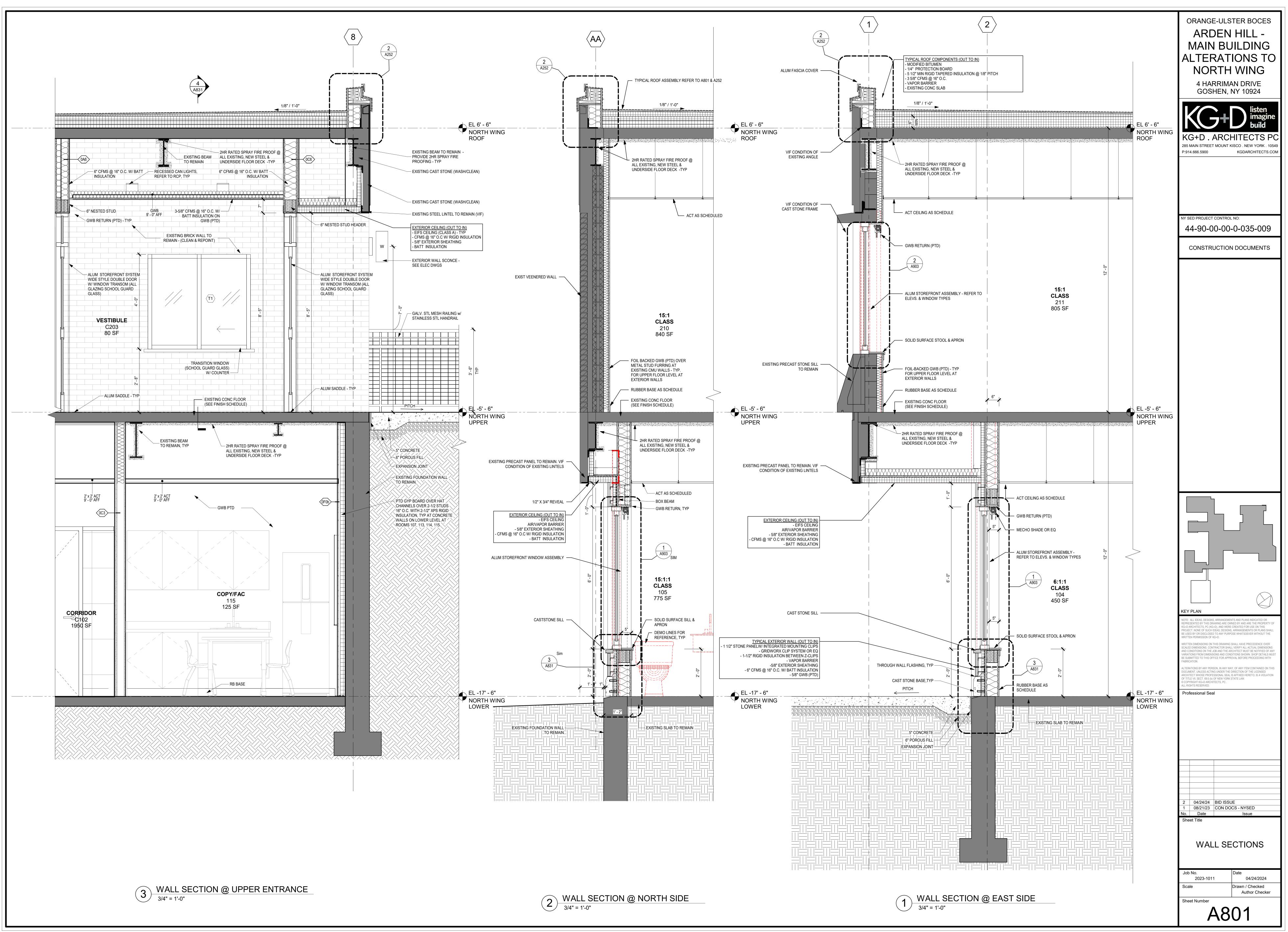
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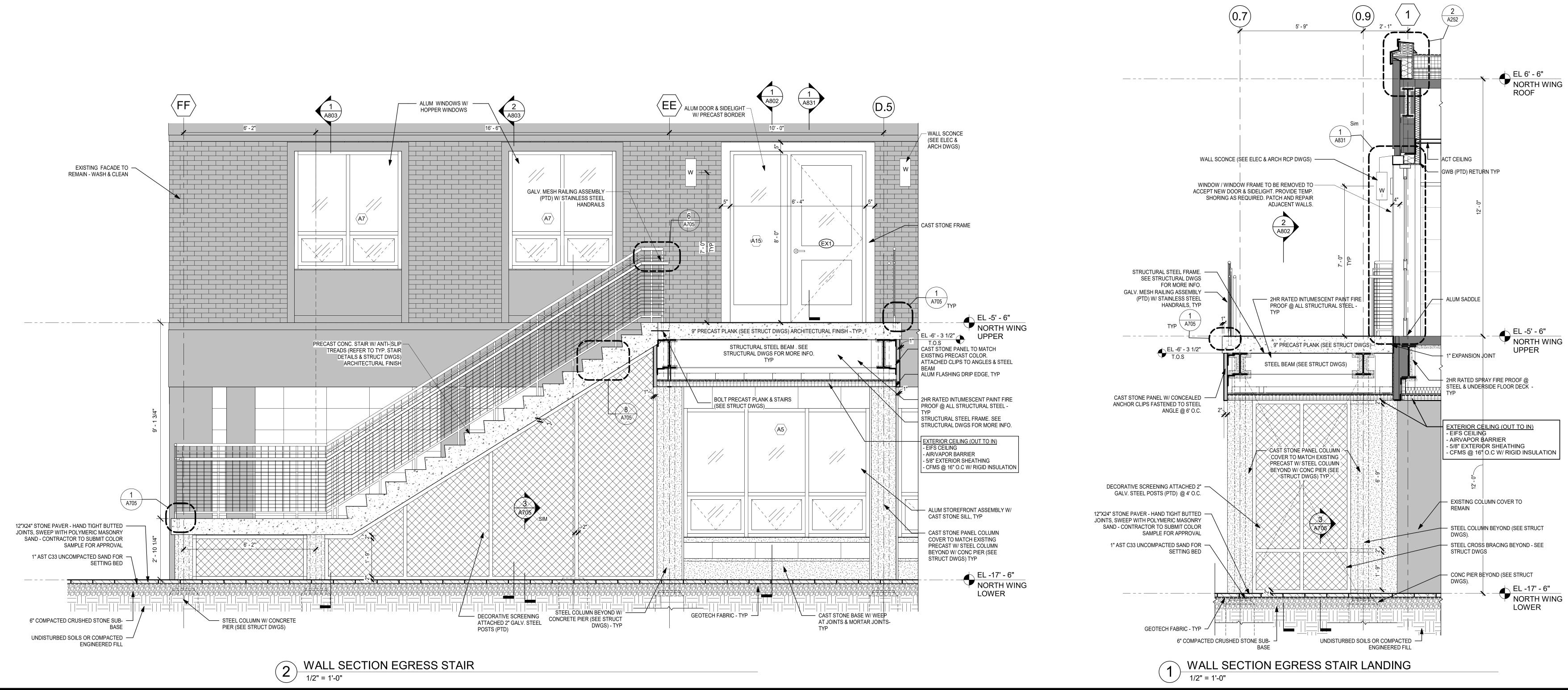
ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 . ARCHITECTS PC KG+D 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 KGDARCHITECTS.COM P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS KEY PLAN NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN DEPANSION OF KC/D RITTEN PERMISSION OF KG+D. ITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER CALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS ND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN ARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MU IE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH ABRICATION. LTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. COPYRIGHT KG+D ARCHITECTS, PC . L RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Date Issue Sheet Title LEARNING STAIRS (BASE) Job No. Date 04/24/2024 2023-1011 Drawn / Checked Scale Author Checker Sheet Number A703



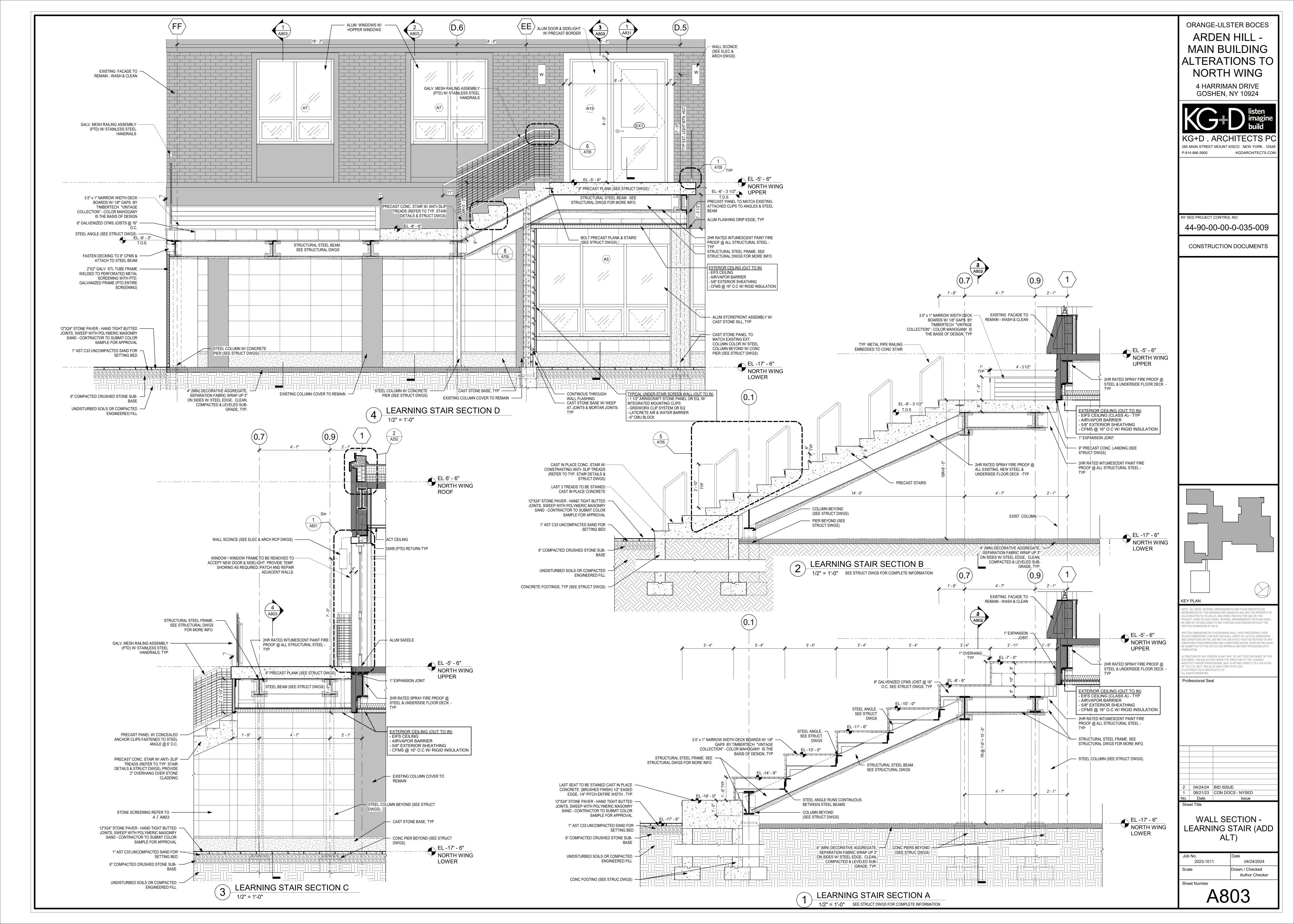
ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING **4 HARRIMAN DRIVE** GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 KGDARCHITECTS.COM P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS EY PLAN IOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR EPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY C D ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS ROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHA IE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE ITTEN PERMISSION OF KG+D. TTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OV ALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS D CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN ATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS M SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH BRICATION. FERATIONS BY ANY PERSON. IN ANY WAY, OF ANY ITEM CONTAINED ON THI CUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED CHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO. IS A VIOLATI TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. DPYRIGHT KG+D ARCHITECTS, PC . RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE 08/21/23 CON DOCS - NYSED Date Issue Sheet Title LEARNING STAIRS (ADD ALT) Job No. Date 04/24/2024 2023-1011 Drawn / Checked Scale Author Checker Sheet Number A704

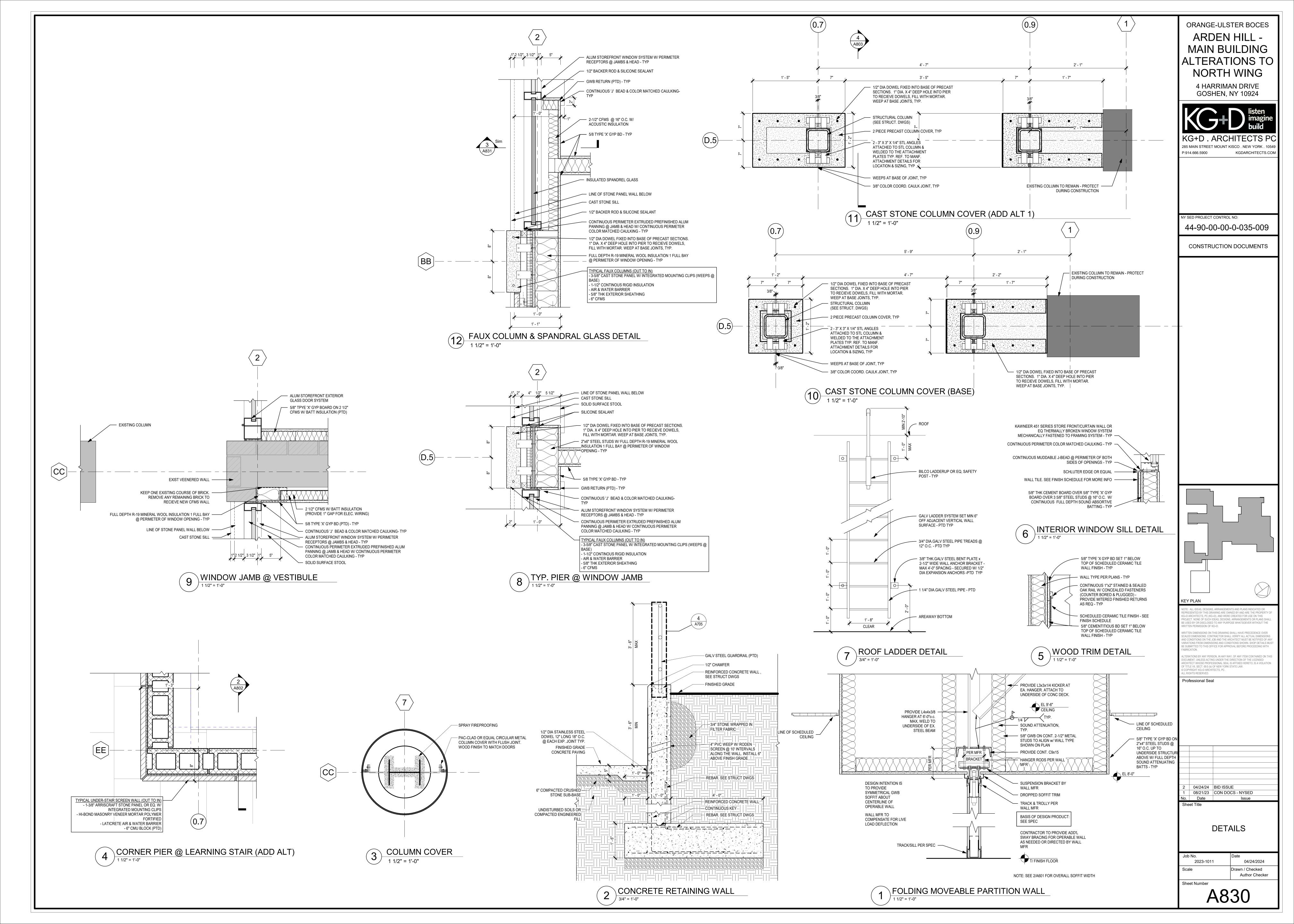


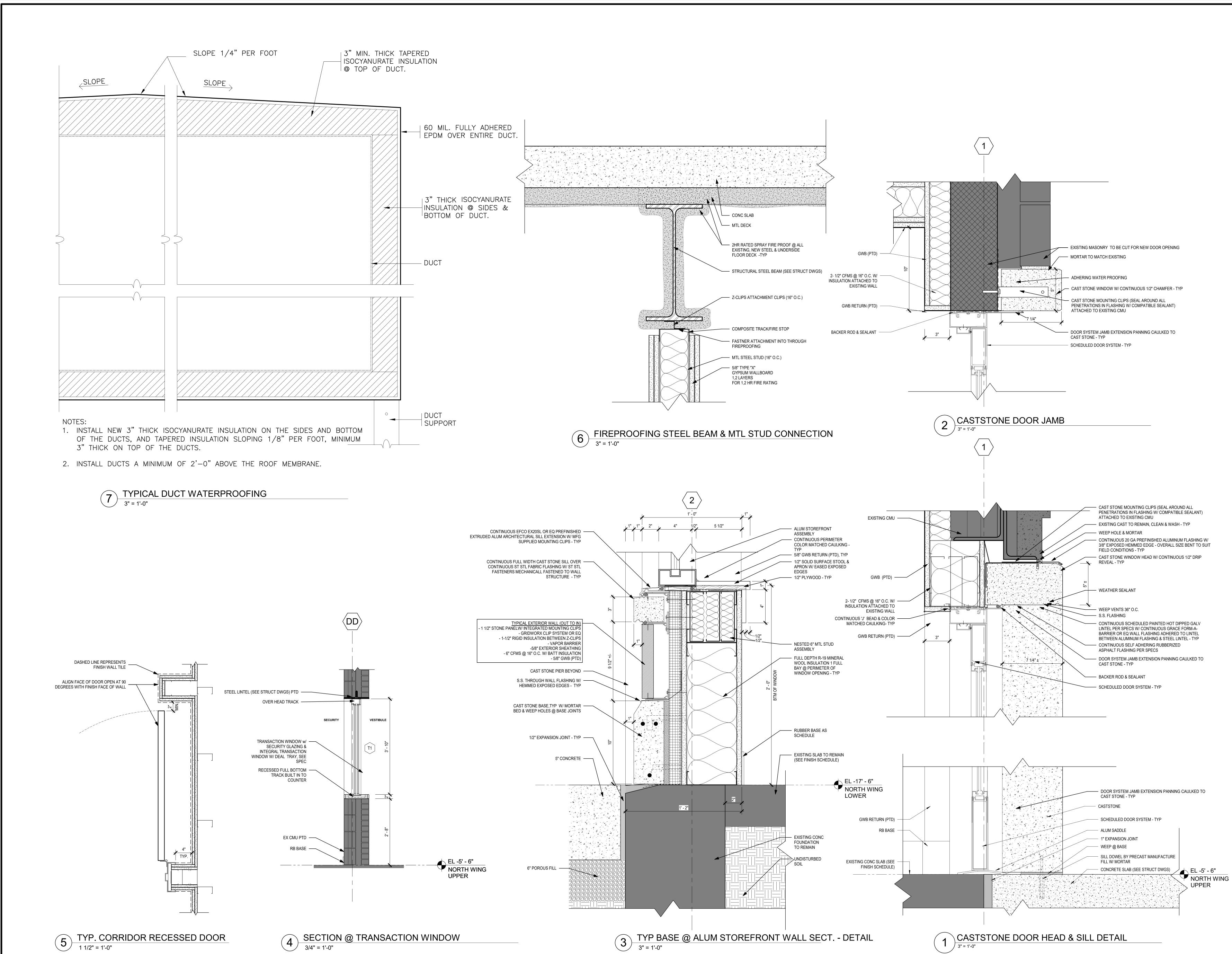




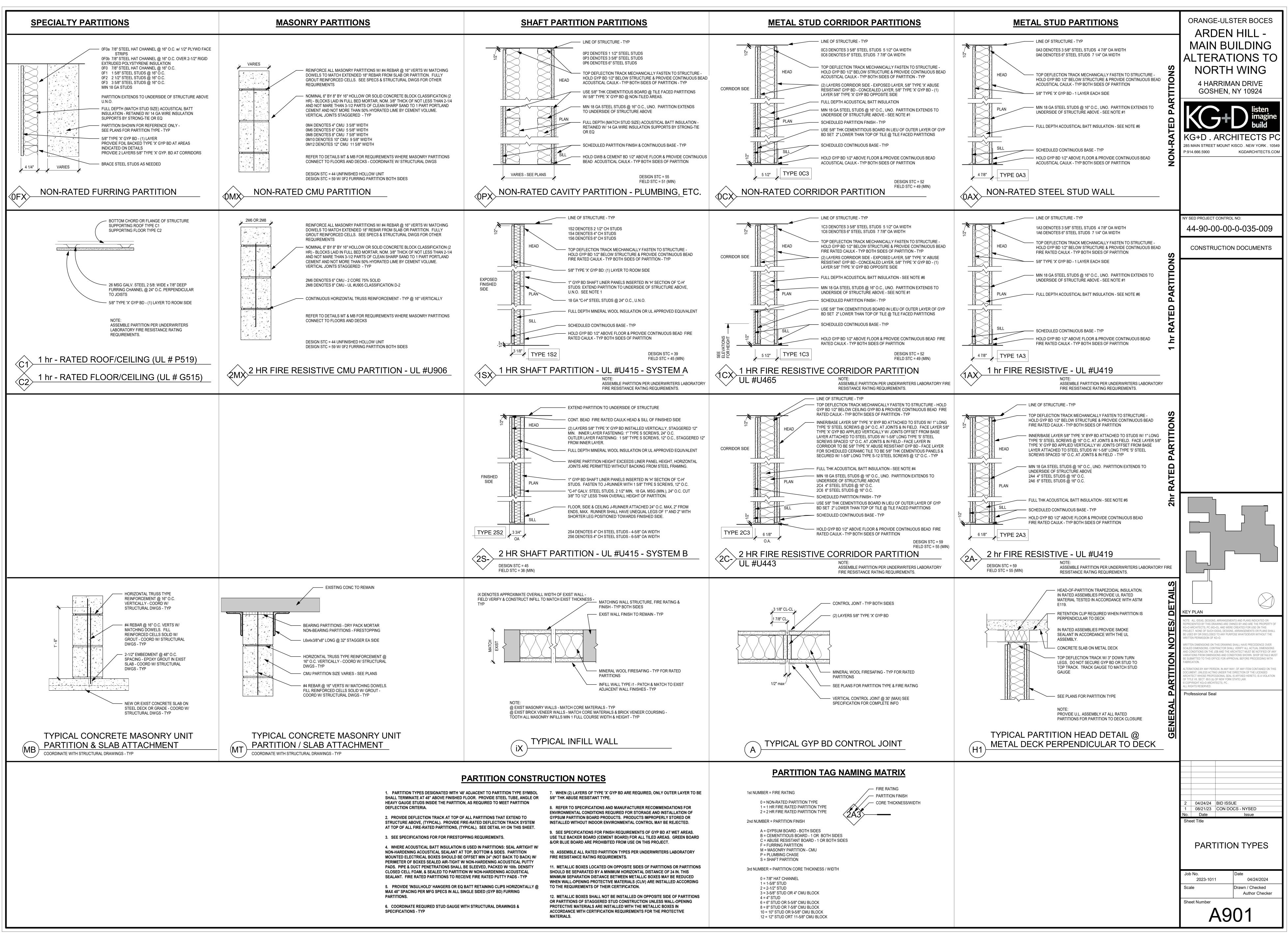
ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924 KG+D . ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS EY PLAN IOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR PRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY C D ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS ROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHA IE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE ITTEN PERMISSION OF KG+D. TEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVE ALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS D CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN IATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS M SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH BRICATION. RATIONS BY ANY PERSON. IN ANY WAY, OF ANY ITEM CONTAINED ON THI CUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED HITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATIC TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. OPYRIGHT KG+D ARCHITECTS, PC . RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE Date Issue Sheet Title WALL SECTION -EGRESS STAIR (BASE BID) Job No. Date 04/24/2024 2023-1011 Drawn / Checked Scale Author Checker Sheet Number A802

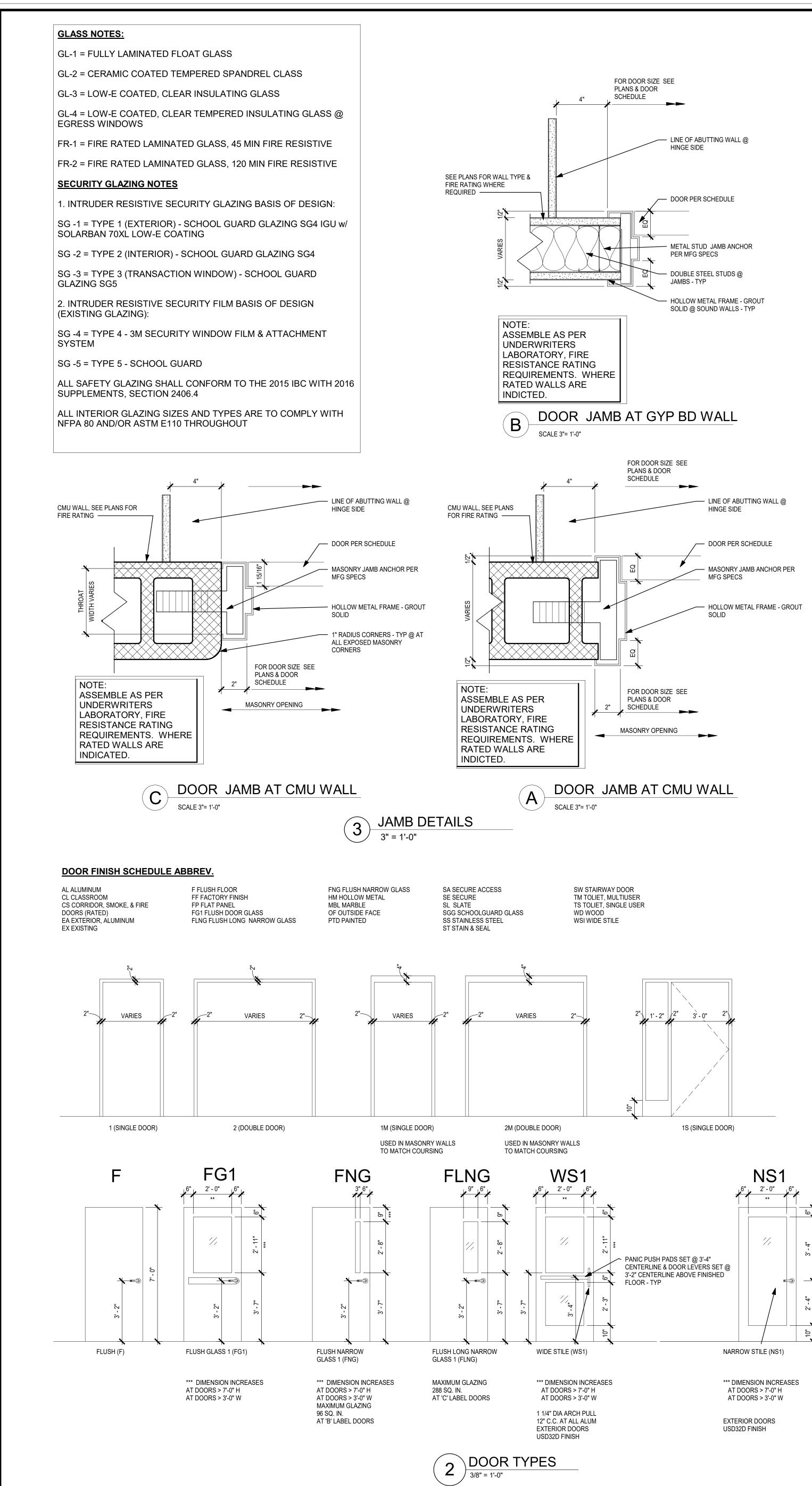






ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING **4 HARRIMAN DRIVE** GOSHEN, NY 10924 KG+D. ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 KGDARCHITECTS.COM P:914.666.5900 NY SED PROJECT CONTROL NO: 44-90-00-00-0-035-009 CONSTRUCTION DOCUMENTS EY PLAN DTE: ALL IDEAS DESIGNS ARRANGEMENTS AND PLANS INDICATED OR RESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY C ARCHITECTS, PC (KG+D), AND WERE CREATED FOR USE ON THIS OJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHA USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE ITTEN PERMISSION OF KG+D. ITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER CALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS ID CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AN IATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS M SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH ABRICATION. LTERATIONS BY ANY PERSON. IN ANY WAY, OF ANY ITEM CONTAINED ON TH DCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED CHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATIC DF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. OPYRIGHT KG+D ARCHITECTS, PC . RIGHTS RESERVED. Professional Seal 04/24/24 BID ISSUE Date Issue Sheet Tit DETAILS Job No. Date 04/24/2024 2023-1011 Scale Drawn / Checked Author Checker Sheet Number A831





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PAC EINV LOBAY CHIN COUNTARD 1 No. FORCE FP AL PF AL<	C101	ELEV. LOBBY	C101		2 6' - 0)" 3	6' - 0"	7' - 0"	FLNG	WD	ST	HM	PTD				No	
DXS VESTBULE 2 0								_										
EAG STARE S		ELEV. LOBBY	C101					_							A12			FORCED - ENTRY RESISTANT GLASS, HARDWIRED/REMOTE CONTROL ACCESS, & ADA
STAL COMMENT C						-		-								AL		FORCED - ENTRY RESISTANT GLASS
STAL DORRHOR C102 STAR A 1 0 0 FWS WI FW PTD 60 MN Ves PANIC HARDWARE WITH HOLD OPEN STR1 CORRHOR C102 STAR B 1 3'-0' 7'-0' FNG WW PTD 60 MN Ves PANIC HARDWARE WITH HOLD OPEN 212 CORRHOR C20' B:11 CLASS 1 3'-0' 7'-0' FLNG WD ST HM PTD HM No WRELESS 222 CORRHOR C20' B:11 CLASS 1 3'-0' 7'-0' FLNG WD ST HM PTD HM No WRELESS 232 CORRHOR 200' GORRHOR 200' F'-0'' FLNG WD ST HM PTD HM No WRELESS ST ST MG NO WRELESS ST ST MG NO WRELESS ST ST F'-0'' FLNG NO ST	EX8	COURTYARD	OS2		1 4'-0)" 4	-' - 0"	8' - 0"			PTD	STL	PTD				No	
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211 CORRENOM COLOR 811 CLASS 1 9 7 PT PLNA WID YT H4B No. WIRTLESS 203 CORREDOR C201 6.11 CLASS 1 9 7 PT FLNA WID ST H4A PTD H8 No. WIRTLESS 203 CORREDOR 200.0 OFFICE 1 3'-0''' 7'-0''' FLNA WID ST H4A PTD H8 No. WIRTLESS 206 6.11 CLASS 28 CORREDOR 1 3'-0'''' 7'-0''' FLNA WID ST H4A PTD H8 No. WIRTLESS 206 6.11 CLASS 28 CORREDOR 1 3'-0'''' 7'-0'''' FLNA WID ST H4A PTD H8 No. WIRTLESS WIRTLESS 207 151 CLASS 28 CORREDOR 22/4''''' 7'-0''''''''' FLNG WID ST H4A PTD H8 No. WIRTLESS St St St St St <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>						-		-										
202 CORRIDOR C201 6:1:1CLAS 1 3''' 7''' FLNO WD ST HM PTD HB NO WIRELESS 204 CORRIDOR 2010 O:1:1CLAS 1 7''' 7''' F WD ST HM PTD HB NO WIRELESS 205 CORRIDOR 2010 O'FICE 1 7''' 7''' F WD ST HM PTD HB NO WIRELESS 206 CORRIDOR 2010 CORRIDOR 1''' 7'''' F'''' F''''' F''''' F''''' F''''' F''''' F'''''' F'''''' F''''''''''''''''''''''''''''''''''''															H8			
204 CORRIDOR 200A OFFICE 1 3'-0' 7'-0' F MD MH PTD H8 No WHELESS 205 CORRIDOR 206 COMMONS 1 3'-0' 7'-0' FLNG WD ST HA PTD H8 No WHELESS 206 CORRIDOR 206 COMMONS 1 3'-0' 7'-0' FLNG WD ST HA PTD H8 No WHELESS 208 CORRIDOR 204 S1:1 CLASS 1 3'-0' 7'-0' FLNG WD ST HA PTD H8 No WHELESS 208 CORRIDOR 201 15:1 CLASS 1 3'-0' 7'-0' FLNG WD ST HA PTD H8 No WHELESS 211 CORRIDOR 204 16:1 CLASS 2''''''''''''''''''''''''''''''''''''	202)" 3	6' - 0"	7' - 0"	FLNG				PTD				No	WIRELESS
255 CORRIDOR 2004 OFFICE 1 9 · O 7 · O F MO WT HM PTD HB No WIRELESS 207 15.1 CLASS 207 CORRIDOR 1 9 · O 7 · O FLMG WD ST HM PTD HB No WIRELESS 207 CORRIDOR C244 8.1 LLASS 1 3 · O 7 · O FLMG WD ST HM PTD HB No WIRELESS 208 SGI 209 15.1 CLASS 1 3 · O 7 · O FLMG WD ST HM PTD HB No WIRELESS 210 CORRIDOR C244 15.1 CLASS 1 3 · O 7 · O FLMG WD ST HM PTD HB No WIRELESS 212 15.1 CLASS 212 CORRIDOR C244 SGI 1 · O · O · O · O · O · O · O · O · O ·									FLNG									
288 0:11 CLASS 208 COMMONS 1 90 70" FLM WD FT HM PTD HB No WIRELESS 208 CORRIDOR C204 81.1 CLASS 1 70" FLM WD ST HM PTD HB No WIRELESS 208 CORRIDOR C204 81.1 CLASS 1 70" FLM WD ST HM PTD HB No WIRELESS 209 CORRIDOR 204 15.1 CLASS 1 70" FLM WD ST HM PTD HB No WIRELESS 211 CORRIDOR 224 15.1 CLASS 1 70" 70" FLM MD HM PTD HB No WIRELESS No WIRELESS 213 CORRIDOR 1.5 16.1 CLASS 2 6'.0" 70" FLM WD TD HB No WIRELESS No WIRELESS									F									
208 CORRIDOR C204 8:11 CLASS 1 3'-0' 7'-0' FLNG W0 ST HM PTD H8 No WIRELESS 209 CORRIDOR C204 561 1 3'-0' 7'-0' FLNG W0 ST HM PTD H8 No WIRELESS 2010 CORRIDOR C204 151 CLASS 1 3'-0' 7'-0' FLNG W0 ST HM PTD H8 No WIRELESS 211 CORRIDOR C204 151 CLASS 1 3'-0' 7'-0' FLNG W0 ST HM PTD H8 No WIRELESS 2124 ST CLASS 212 ORRIDOR C204 SGI 3'-0''' 7'-0''' FLNG W0 ST HM PTD H8 No WIRELESS 213 CORRIDOR C204 SGI 1''''''''''''''''''''''''''''''''''''								7' - 0"	FLNG				PTD					
299 CORRIDOR C204 SGI 1 3·0° 7·0° FLNG WD ST HM PTD H8 No WIRELESS 210 CORRIDOR C204 151 CLASS 1 3·0° 7·0° FLNG WD ST HM PTD H8 No WIRELESS 210 CORRIDOR C204 151 CLASS 1 3·0° 7·0° FLNG WD ST HM PTD H8 No WIRELESS 212 151 CLASS 212 CORRIDOR 1 3·0° 7·0° FLNG WD ST HM PTD H8 No WIRELESS 213 CORRIDOR C204 SGI 1 3·0° 7·0° FLNG WD ST HM PTD H8 No WIRELESS 214 IS1 CLASS 211 SGI 1 S·0° 7·0° FLNG WD ST HM PTD H8 No WIREL																		
2094 SGI 209 16:1:CLASS 1 9:0" 7:0" FLNG WD ST HM PTD HB No WIRELESS 210 CORRIDOR C204 15:1:CLASS 1 3:0" 7:0" FLNG WD ST HM PTD HB No WIRELESS 212 IS:1:CLASS 212 CORRIDOR C204 15:1:CLASS 2:0" 7:0" FLNG WD ST HM PTD HB No WIRELESS 212 IS:1 CLASS 2:0" 7:0" 7:0" FLNG WD ST HM PTD HB No WIRELESS 213 IS:1CLASS 2:11 SGI 1 3:0" 7:0" FLNG WD ST HM PTD No WIRELESS 2144 IS:1CLASS 2:11 SGI 1 3:0" 7:0" FLNG WD ST HM PTD No WIRELESS																		
211 CORRIDOR C204 151 CLASS 1 3'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 212 151 CLASS 212 CORRIDOR 2120 151 CLASS 2 6'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 213 CORRIDOR C204 SGI 1 3'-0" 7'-0" No NI No WIRELESS 213A IS1 CLASS 211 SGI 1 3'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 214A IS1 CLASS 211 SGI 1 3'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 214A IS1 CLASS 212 SGI 1 3'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 214A IS1 CLASS 212 SGI 1 3'-0" 7'-0" F <wd< td=""></wd<>																		
212 15.1 CLASS 212 CORRIDOR 1 9'-0' P'-0'' FLM VD ST HM PTD H8 No WIRELESS 213 CORRIDOR C204 SGI 1 3'-0'' 7'-0'' NS1 HM PTD HM PTD No WIRELESS 213A T5.1 CLASS 211 SGI 1 3'-0'' 7'-0'' NS1 HM PTD HM PTD No WIRELESS 214A CORRIDOR C204 SGI 1 3'-0'' 7'-0'' FLNG WD ST HM PTD H8 No WIRELESS 2144 15.1 CLASS 211 SGI 1 3'-0'' 7'-0'' FLNG WD ST HM PTD H8 No WIRELESS 214B 15.1 CLASS 212 SGI 1 3'-0''' 7'-0'' F <wd< td=""> ST HM PTD H8 No WIRELESS 216 TOIL 216 CORRIDOR 1 3'-0''''''''''''''''''' F<wd< td=""> ST</wd<></wd<>																		
212A ST. 212B 16.1 CLASS 2 6' 0'' 7' 0'' F WD ST HM PTD Image: Construction of the construction																		
213A 161 CLASS 211 SGI 1 9'-0' 7'-0' FLNG WD ST HM PTD HB No WIRLESS 214 CORRIDOR C204 SGI 1 3'-0' 7'-0' FLNG WD ST HM PTD HB No WIRLESS 214A 15.1 CLASS 211 SGI 1 3'-0' 7'-0' FLNG WD ST HM PTD HB No WIRLESS 214B 15.1 CLASS 212 SGI 1 3'-0' 7'-0' FLNG WD ST HM PTD HB No WIRLESS 216 TOIL 216 CORRIDOR 1 3'-0' 7'-0' F WD ST HM PTD SL No WIRLESS 216 TOIL 216 CORRIDOR 1 3'-0' 7'-0' F WD ST HM PTD SL No WIRLESS 218 TOIL 210 CORRIDOR 1 3'-0' 7'-0' F </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								_	_									
214 CORRIDOR C204 SGI 1 3'-0" 7'-0" NS1 HM PTD HB No WIRELESS 2148 15:1 CLASS 211 SGI 1 3'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 216 TOIL 215 CORRIDOR 1 3'-0" 7'-0" F<															110			
214A 15:1 CLASS 211 SGI 1 3'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 214B 15:1 CLASS 212 SGI 1 3'-0" 3'-0" 7'-0" FLNG WD ST HM PTD H8 No WIRELESS 216 TOIL 216 CORRIDOR 1 3'-0" 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 216 TOIL 216 CORRIDOR 1 3'-0" 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 217 TOIL 217 CORRIDOR 1 3'-0" 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 218 TOIL 219 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 220 TOIL 220 CO								_							ПО			
215 TOIL 215 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 216 TOIL 216 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 217 TOIL 217 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 218 TOIL 218 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 220 TOIL 220 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 221 TOIL 221 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 2221 TOIL 223 SAUMONS 1 3'-0" 7'-0" F <															H8			
216 TOIL. 216 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 217 TOIL. 217 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 218 TOIL. 219 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 219 TOIL. 219 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 220 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 221 TOIL. 221 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 222 COMMONS C202 SECITY 1 3'-0" 7'-0" F WD ST									FLNG						H8	01		
217 TOIL. 217 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 218 TOIL. 218 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 219 TOIL. 220 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 220 TOIL. 220 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 221 TOIL. 221 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 2221 COMMONS 223 COMMONS 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 223 JAN. 223 COMMONS 1 3'-0" 7'-0" F									F									
219 TOIL. 219 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 220 TOIL. 220 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 221 TOIL. 221 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 221 TOIL. 221 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 222 COMMONS 223 SCOMMONS 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 223 JAN. 223 COMMONS 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 224 CORRIDOR 2004 2 5'-8" 2'-0" 7'-0" FNG <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>F</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								_	F									
220 TOIL. 220 CORRIDOR 1 3'-0" 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 221 TOIL. 221 CORRIDOR 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 222 COMMONS 223 SECURITY 1 3'-0" 7'-0" FLNG WD ST HM PTD No WIRELESS 223 JAN. 223 COMMONS 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 224 CORRIDOR 204 TECHNICAL 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 224 CORRIDOR 200A TECHNICAL 1 3'-0" 7'-0" F WD ST HM PTD No No FORCED - ENTRY RESISTANT GLASS, HARDWIRI C201 COMMONS C202 COMMONS 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>F</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									F									
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222 COMMONS C202 SECURITY 1 3'-0" 3'-0" 7'-0" FLNG WD ST HM PTD No WIRELESS 223 JAN. 223 COMMONS 1 3'-0" 7'-0" F WD ST HM PTD SL No WIRELESS 224 CORRIDOR C04 TECHNICAL 1 3'-0" 7'-0" F WD ST HM PTD No WIRELESS 229 CORRIDOR 200A 2 5'-8" 2'-10" 7'-0" F WD ST HM PTD No No PANIC HARDWARE WITH HOLD OPEN C201 COMMONS C202 COMMONS 1 3'-0" 7'-0" F WD ST HM PTD No PANIC HARDWARE WITH HOLD OPEN C203 VESTIBULE C203 COMMONS 2 6'-0" 3'-0" 7'-0" WS1 AL FF AL No FORCED - ENTRY RESISTANT GLASS, HARDWIRE EX1 CORRIDOR C201 COURTYARD 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>F</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								_	F									
224CORRIDORC204TECHNICAL13'-0"3'-0"7'-0"FWDSTHMPTD01NoWIRELESS229CORRIDOR200A25'-8"2'-10"7'-0"FNGWDSTHMPTD90 MINNoFORCED - ENTRY RESISTANT GLASS, HARDWIRIC201COMMONSC202COMMONS13'-0"3'-0"7'-0"FWDSTHMPTDNoNoPANIC HARDWARE WITH HOLD OPENC203VESTIBULEC203COMMONS26'-0"3'-0"7'-0"WS1ALFFALFFA13ALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRIEX1CORRIDORC201COURTYARD13'-4"3'-4"7'-10"WS1ALFFALFFAALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRIEX2STAIR ASTA2COMMONS26'-0"3'-0"7'-0"WS1ALFFALFFAALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRI									FLNG							<u></u>		WIRELESS
229CORRIDOR200A2 $5' \cdot 8"$ $2' \cdot 10"$ $7' \cdot 0"$ FNGWDSTHMPTD90 MINNoFORCED - ENTRY RESISTANT GLASS, HARDWIRE NoC201COMMONSC202COMMONS1 $3' \cdot 0"$ $3' \cdot 0"$ $7' \cdot 0"$ FWDSTHMPTD90 MINNoFORCED - ENTRY RESISTANT GLASS, HARDWIRE NoC203VESTIBULEC203COMMONS2 $6' \cdot 0"$ $3' \cdot 0"$ $7' \cdot 0"$ FWDSTHMPTD90 MINNoFORCED - ENTRY RESISTANT GLASS, HARDWIRE HARDWIRED/REMOTE CONTROL ACCESS, & ADA BUTTONEX1CORRIDORC201COURTYARD1 $3' - 4"$ $7' - 10"$ WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRE BUTTONEX1CORRIDORC201COURTYARD1 $3' - 4"$ $7' - 10"$ WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRE BUTTONEX2CORRIDORC201COURTYARD1 $3' - 4"$ $7' - 10"$ WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRED/RESISTANT GLASS, AADA BUTTONEX1CORRIDORC201COURTYARD1 $3' - 4"$ $7' - 0"$ WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRED/REMOTE CONTROL ACCESS, & ADA BUTTONEX2STAIR ASTA2COMMONS2 $6' - 0"$ $3' - 0"$ $7' - 0"$ <									F							SL		
C203VESTIBULEC203COMMONS26' - 0"3' - 0"7' - 0"WS1ALFFALFFAlA13ALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRED/REMOTE CONTROL ACCESS, & ADA BUTTONEX1CORRIDORC201COURTYARD13' - 4"7' - 10"WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRED/REMOTE CONTROL ACCESS, & ADA BUTTONEX2COMMONSL6' - 0"3' - 0"7' - 0"WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRIEX2VESTIBULE26' - 0"3' - 0"7' - 0"WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRED/REMOTE CONTROL ACCESS, & ADA BUTTONSTA2STAIR ASTA2COMMONS26' - 0"3' - 0"7' - 0"FNGWDSTHMPTD60 MINALYesPANIC HARDWARE WITH HOLD OPEN				TEORINOAE				_						90 MIN				
EX1CORRIDORC201COURTYARD13' - 4"3' - 4"7' - 10"WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIREEX2VESTIBULE26' - 0"3' - 0"7' - 0"WS1ALFFALFFALNoFORCED - ENTRY RESISTANT GLASS, HARDWIRESTA2STAIR ASTA2COMMONS26' - 0"3' - 0"7' - 0"FNGWDSTHMPTD60 MINALVesPANIC HARDWARE WITH HOLD OPEN	C201								F WS1		ST				A13	AL		FORCED - ENTRY RESISTANT GLASS, HARDWIRED/REMOTE CONTROL ACCESS, & ADA
Image: State		CORRIDOR	C201												A 4 0			FORCED - ENTRY RESISTANT GLASS, HARDWIRI
															A13			HARDWIRED/REMOTE CONTROL ACCESS, & ADA BUTTON
																AL		

CHART OF DOOR RATINGS & UL LABELUL LABELRATINGRATINGRATING MAX GLASS AREA 1 1/2 HR 90 MIN 100 SQ INCHES PER LEAF 3/4 HR 1296 SQ INCHES PER LEAF 45 MIN SMOKE SMOKE

NOTE: GLAZING AND GLASS SIZES FOR INTERIOR DOORS AND WINDOWS ARE TO COMPLY WITH NFPA 80 OR ASTM E119 - TYP.

SADDLE NOTES:

BE COORDINATED.

1. COORDINATE DOOR UNDERCUT WITH SADDLE & OTHER UNDERCUTTING REQ. SEE DOOR SCHEDULE & SADDLE DETAILS ON THIS SHEET.

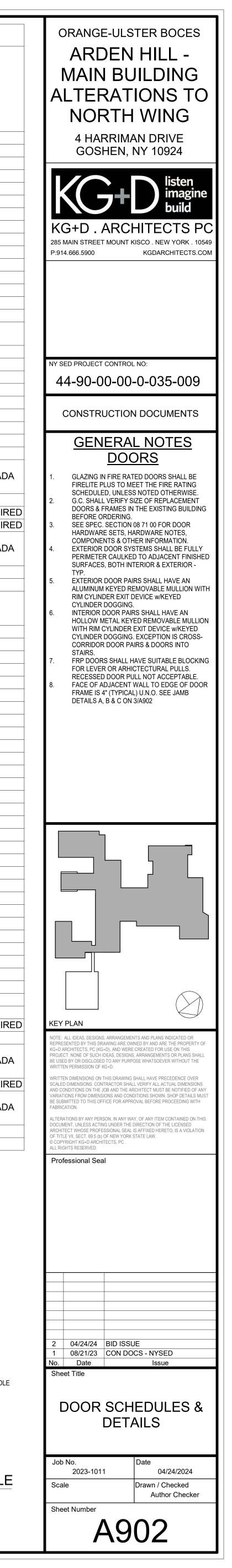
2. SADDLES ARE TO BE FULL WIDTH OF DOOR FRAME

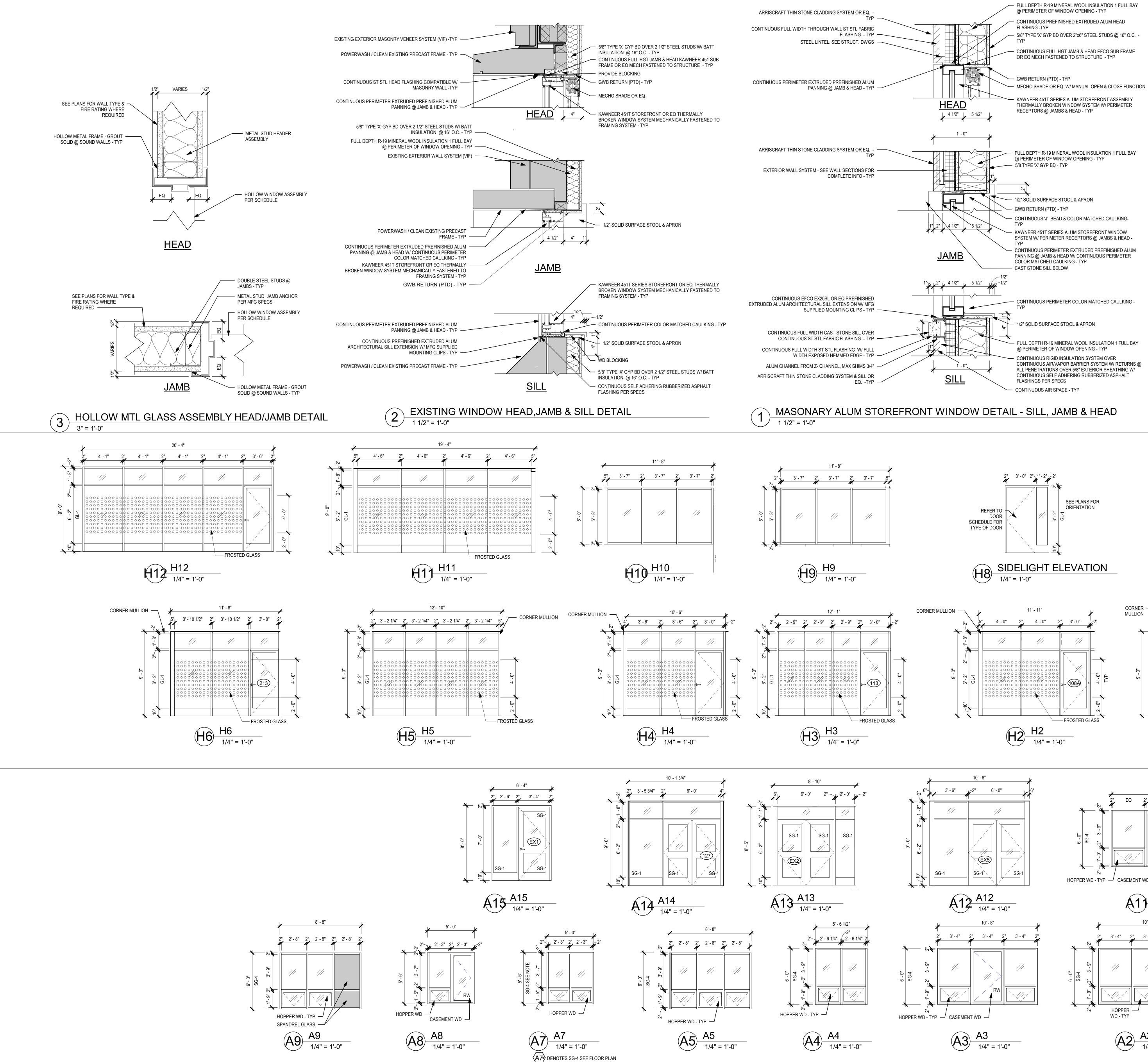
3. SADDLES MAY BE OMITTED WHERE MATERIALS OF SIMILAR THICKNESS MEET WITH THE WRITTEN APPROVAL OF THE ARCHITECT. DOOR UNDERCUTS MUST

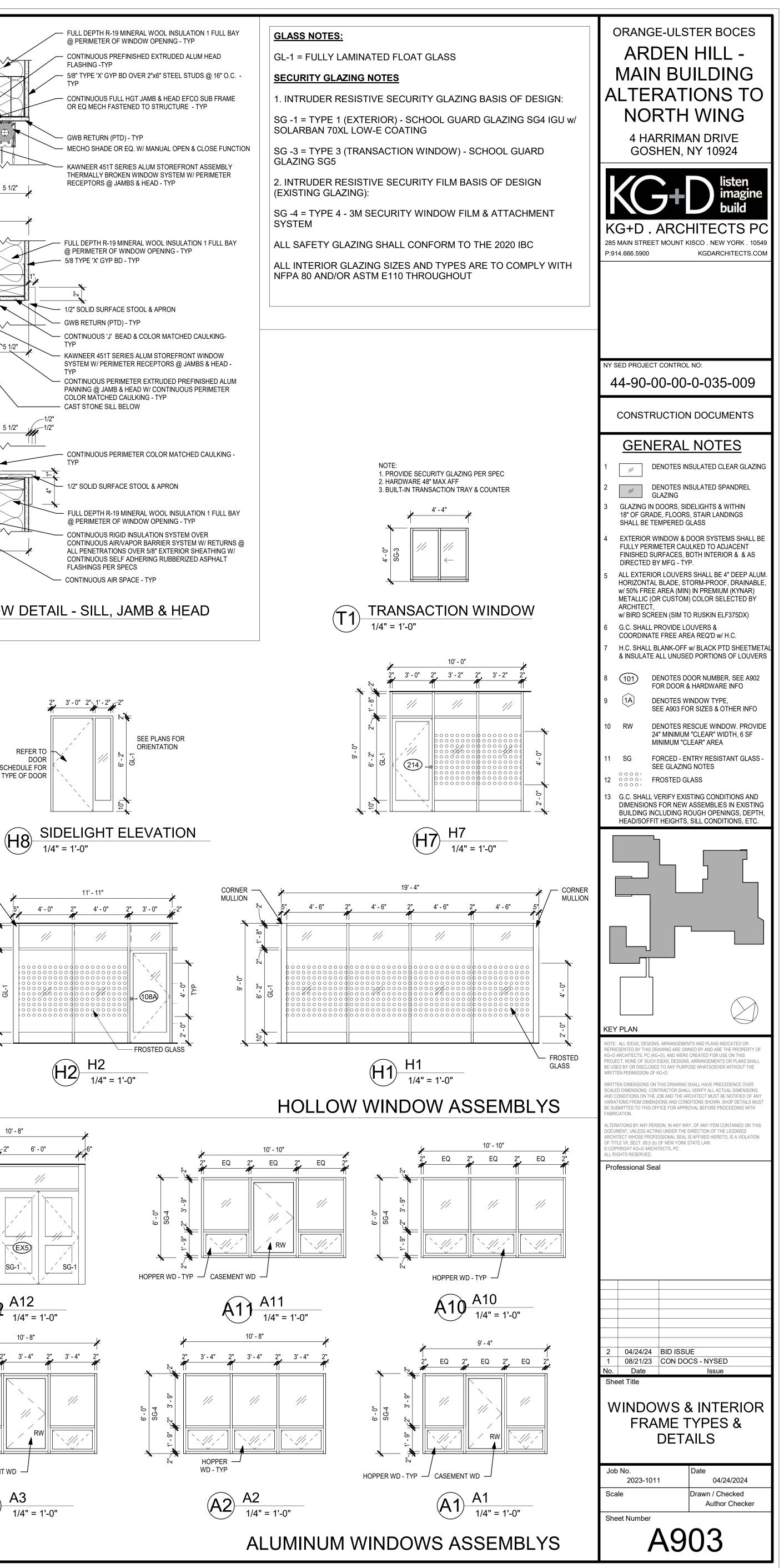
4. SLATE SADDLES, WHEN USED OR CALLED FOR SHALL BE SELECTED FROM FULL COLOR RANGE TO MATCH ADJACENT FLOORING.

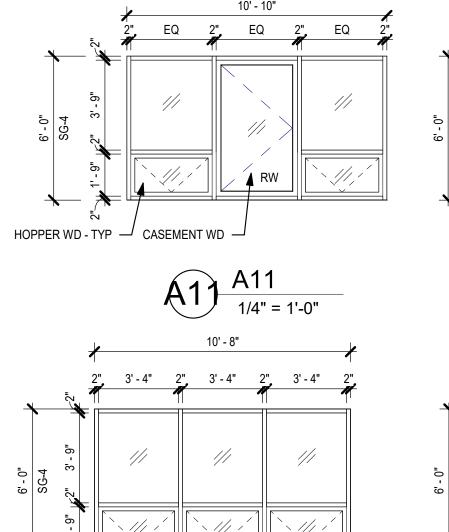
INTERIOR EXTERIOR FULL WIDTH RTF = 1/8" +/-TO MATCH JAMB HLVT = 1/8" +/-PT = 1/2" ALUMINUM SADDLE CPT = 1/4" +/-(PORCELAIN TILE) SLATE SADDLE + \mathbf{X} SADDLE DETAIL TYPICAL EXTERIOR SADDLE **1**B 1A TYPICA SCALE 3"= 1'-0" SCALE 3"= 1'-0"

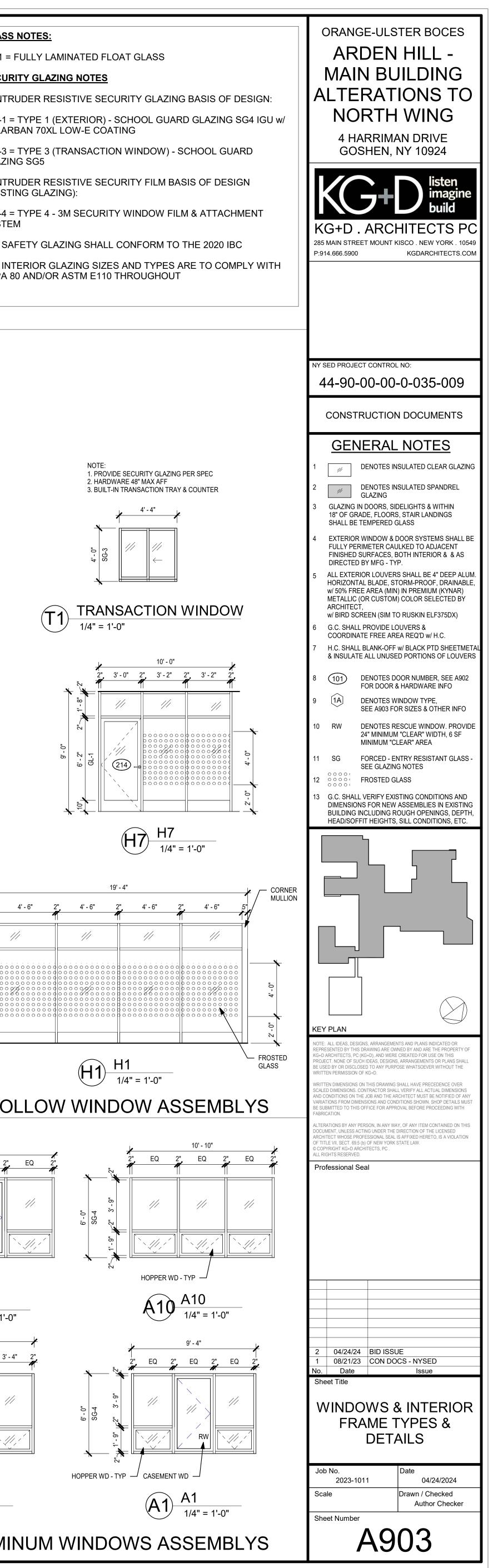
1 SADDLE DETAILS 3" = 1'-0"

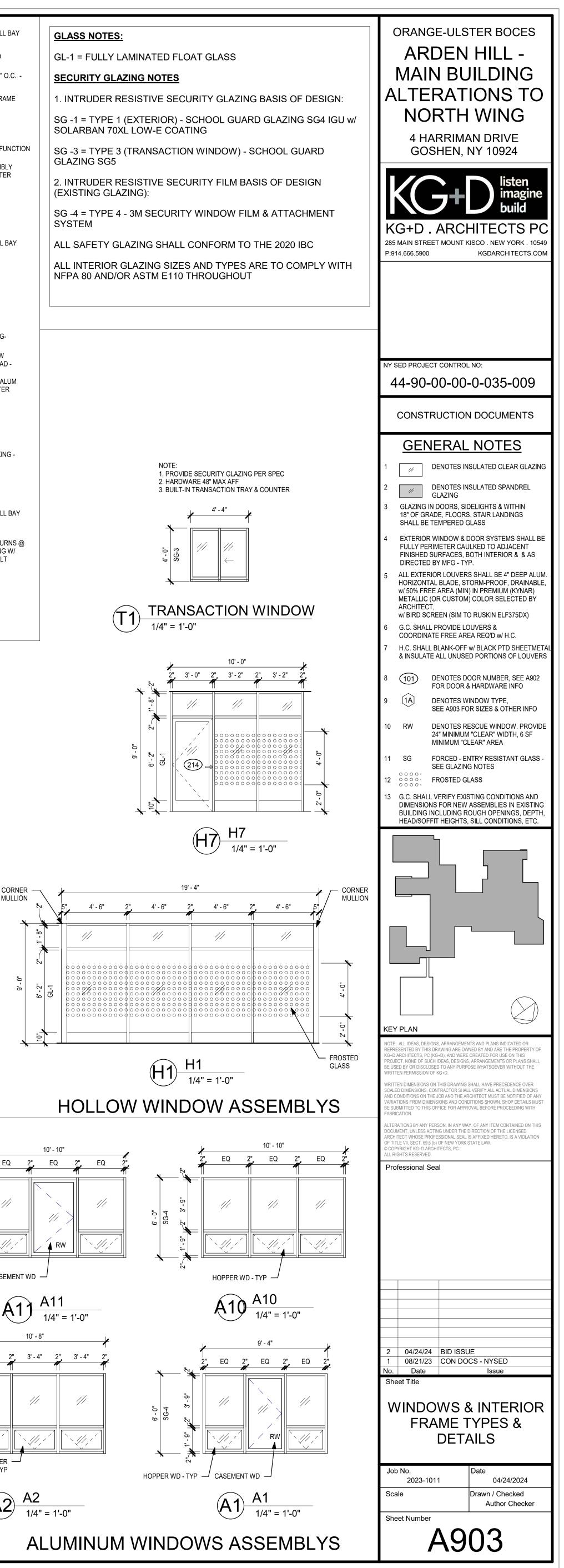


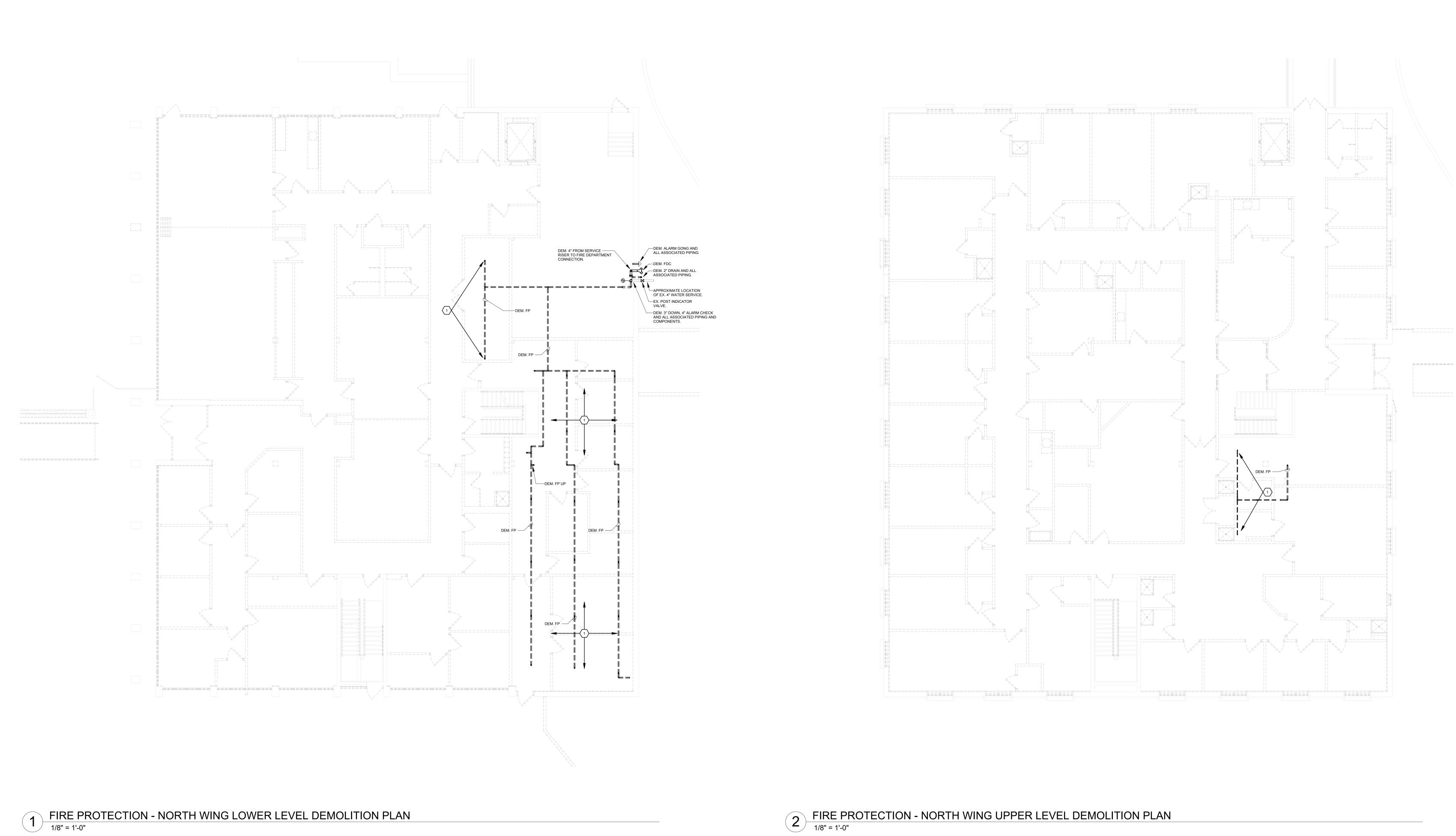






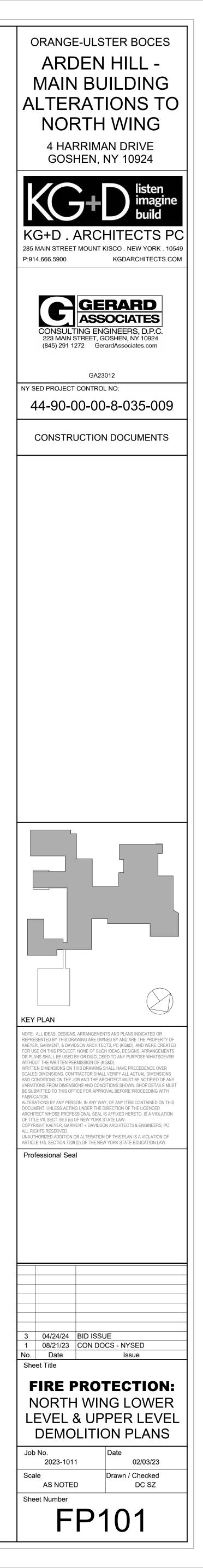


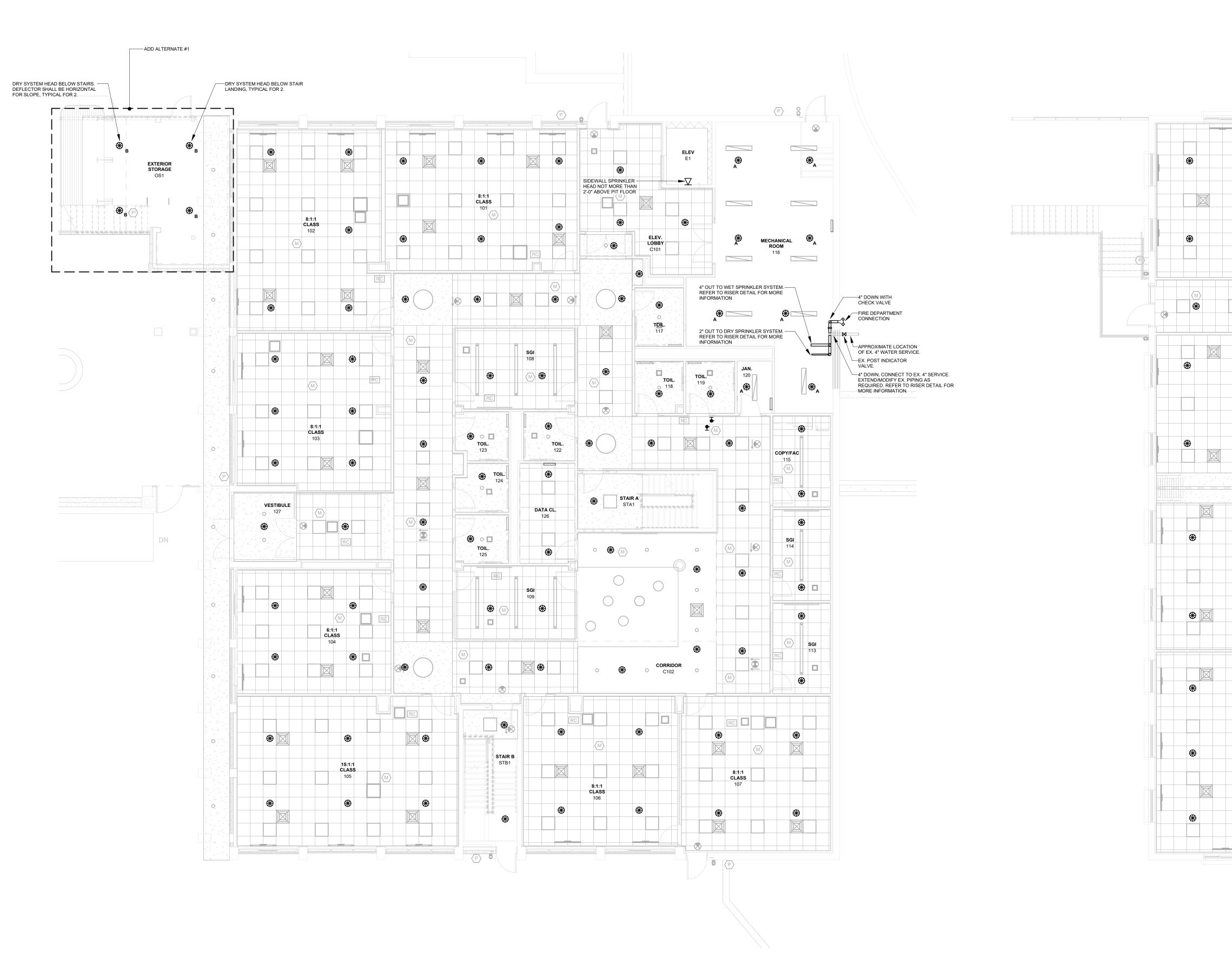




	FIRE PROTECTION DEMOLITION KEYED NOTES
#	NOTE TEXT
1	DEMOLISH SPRINKLER HEAD AND ALL ASSOCIATED PIPING TO POINT INDICATED.

NOTES: 1.) ALL INTERIOR AND EXTERIOR DEMOLITION WORK TO BE PERFORMED BY ABATEMENT CONTRACTOR, REFER TO BID DOCUMENTS FOR MORE INFORMATION. 2.) ALL FIRE PROTECTION WORK, UNLESS OTHERWISE NOTED, SHALL BE PERFORMED AS PART OF THE PLUMBING CONTRACT.





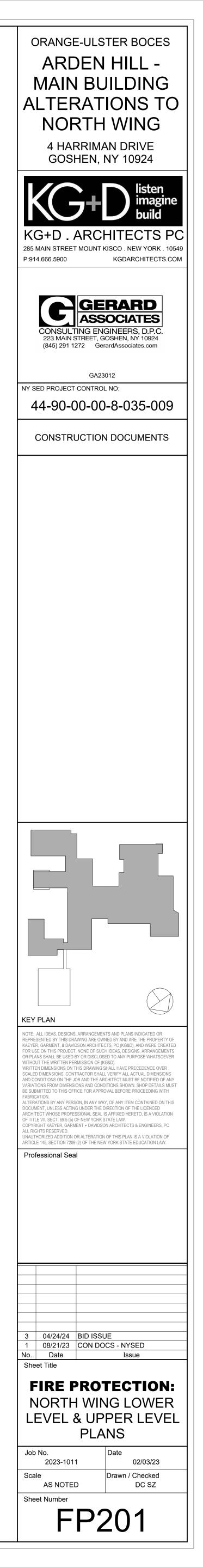
1 FIRE PROTECTION - NORTH WING LOWER LEVEL PLAN 1/8" = 1'-0"

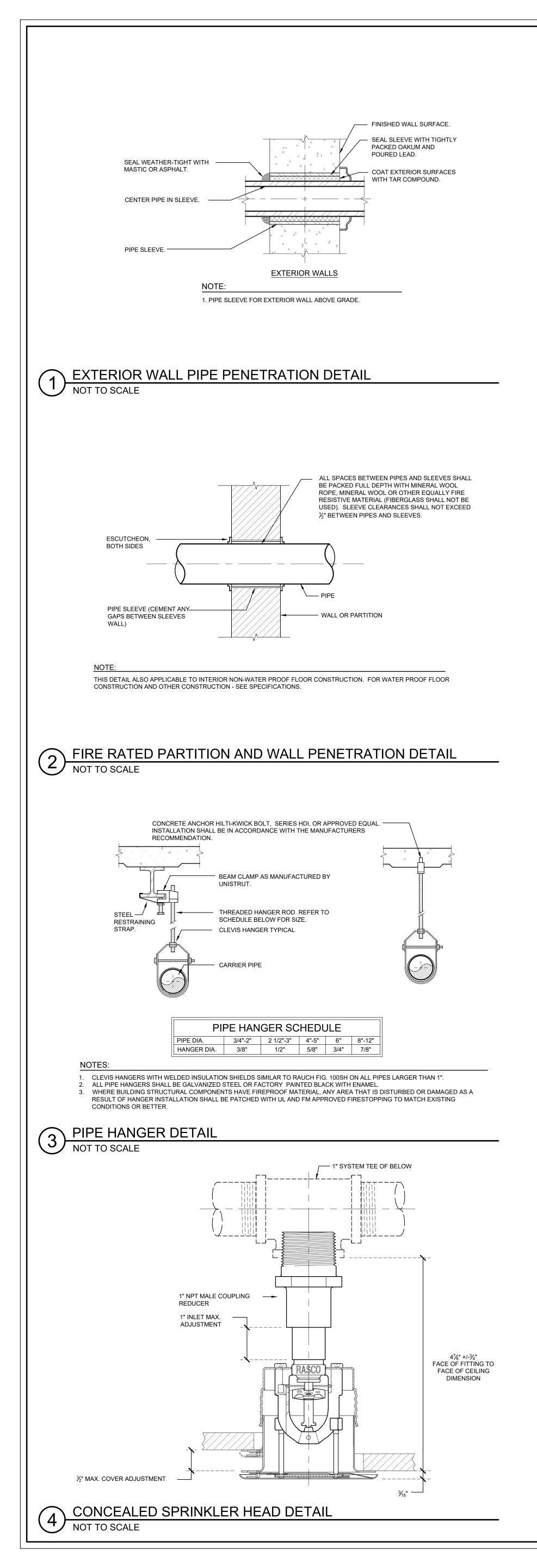


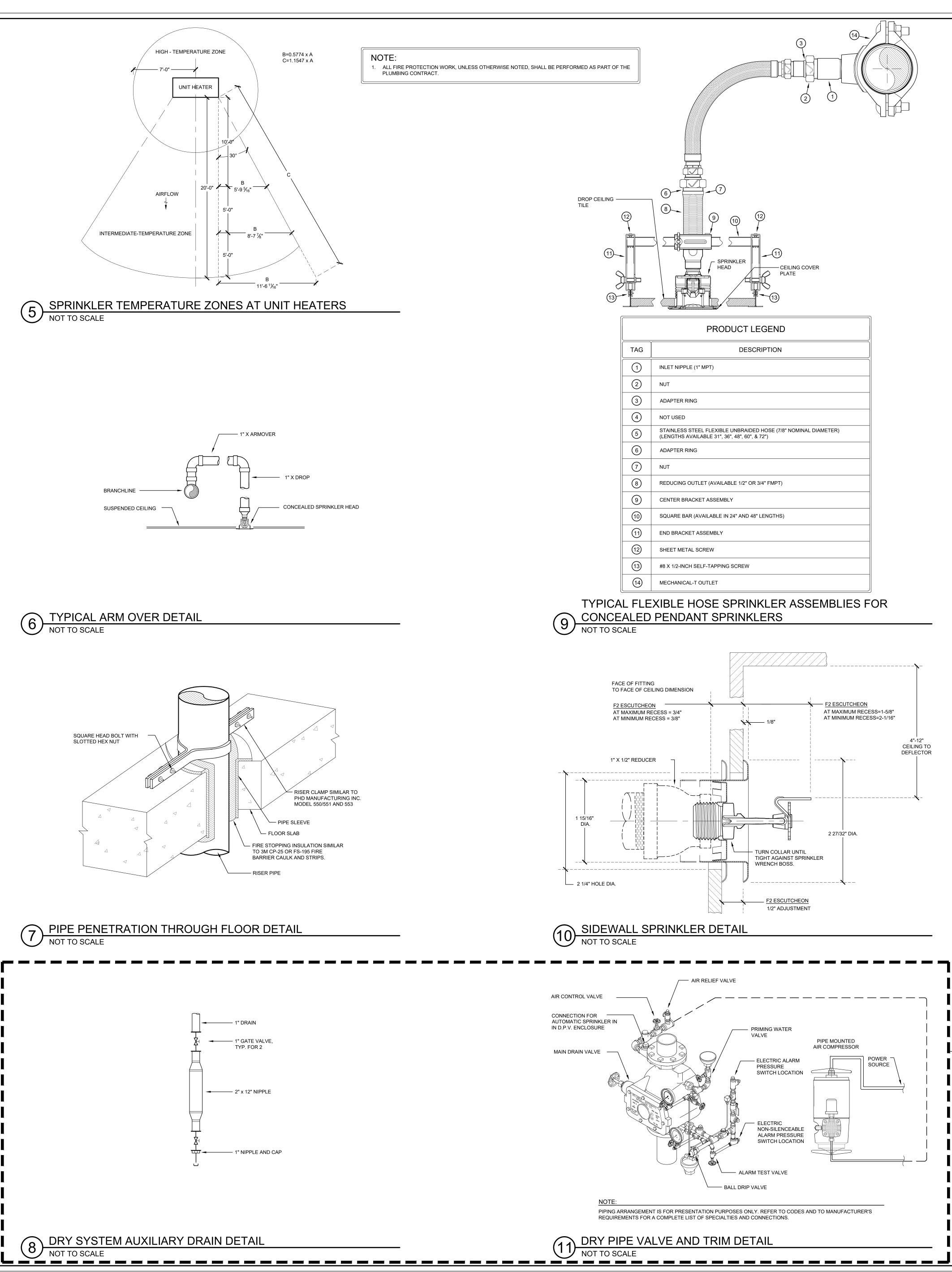
8:1:1 CLASS 201 ↓		3 3	Image: Control of the control of th	ELEV E1		OFFICE 204 0FFICE 205
		CORRIE C201		TOIL, 220 ** **		
15:1 CLASS 212						
	0 •	RC 214	CORRIDOR C204	STAIR A STA2 TECHNICAL 224	6:1:1 CLASS 206	
15:1 CLASS 211		M SGI 213		B	DEWALL SPRINKLER HEAD WITH INTERMED MPERATURE CLASSIFICATION AT SKYLIGH PICAL FOR 2. PICAL FOR 2. PICA	
					VAY FROM GLASS AND AT INTERVALS ALO DT GREATER THAN 6 FEET.	
15:1 CLASS 210	M SGI 209	STAIR B STB2			15:1 CLASS 207	

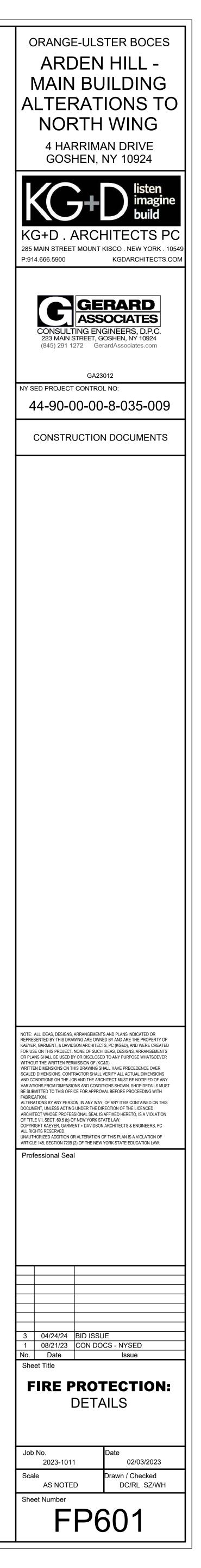
2 FIRE PROTECTION - NORTH WING UPPER LEVEL PLAN 1/8" = 1'-0"

NOTES: 1. ALL FIRE PROTECTION WORK, UNLESS OTHERWISE NOTED, SHALL BE PERFORMED AS PART OF THE PLUMBING CONTRACT.









------ ADD ALTERNATE #1

FIRE PROTECTION GENERAL NOTES

- 1. ALL FIRE PROTECTION SYSTEM WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2022 VERSION OF NYS EDUCATION DEPARTMENT MANUAL OF PLANNING STANDAR SCHOOL BUILDINGS, 2020 FIRE CODE OF NEW YORK STATE, NFPA 13-2016, AND ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
- 2. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, SPRINKLER HEADS, TESTS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON DRAWINGS TO RENDER THE SPRINKLER SYSTEM COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS. NECESSARY ALL MATERIALS, EQUIPMENT, AND ETC. SHALL BE UL LISTED AND FM APPROVED.
- 3. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING, SPRINKLER HEADS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID CONFLICTS. FURNISH TO OTHER AF TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. CONTRACTOR SHALL PARTIC MAKING COORDINATION DRAWINGS WITH OTHER PRIME CONTRACTS.
- 4. CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS WITH FIRE-STOPPING MATERIAL SIMILAR TO HILTI INTUM FIRE STOP MATERIAL TO MAINTAIN FIRE AND SMOKE RATINGS.
- 5. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER, AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIALS) AT NO ADD COST TO OWNER DURING THE GUARANTEE PERIOD.
- 6. CONTRACTOR SHALL DEMONSTRATE NEW FIRE PROTECTION SYSTEM TO OWNER AND REVIEW MAINTENANCE PROCEDURES.
- 7. CONTRACTOR SHALL PERFORM ALL REQUIRED TESTS BY NFPA, ENGINEER, BUILDING DEPARTMENT AND FIRE DEPARTMENT TO THEIR SATISFACTION.
- 8. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS TO ENSURE CONCEALMENT OF ALL PIPING. NOTIFY ARCHITECT OR CONSTRUCTION M WHEN CONFLICTS EXIST PRIOR TO INSTALLING PIPING. 9. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) & (120V) FOR SYSTEMS SHOWN ON THE DRAWINGS, INCLUDING ALL RELAYS, TRANSFORMERS, (
- JUNCTION BOXES, CONDUCTORS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
- 10. CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

PROVIDE (2) MANUALS LISTING TAG NUMBER, LOCATIONS OF VALVE AND EQUIPMENT/PIPING SERVED BY VALVE.

NOTE:

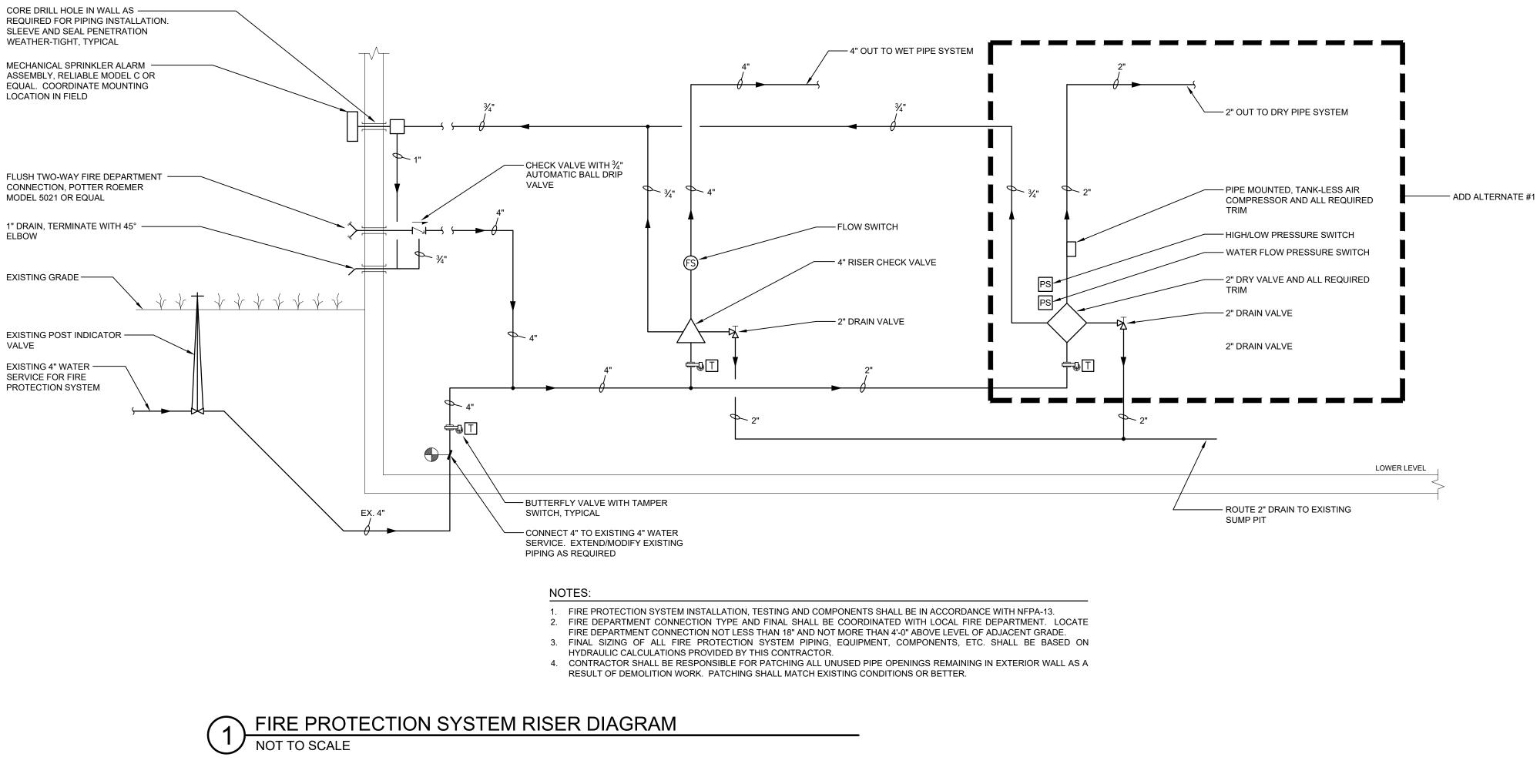
PLUMBING CONTRACT.

- 11. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND OBSERVE ALL CLEARANCES. 12. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. ELECTRICAL CODE AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION CONDUIT. 120V/1 - MINIMUM CONDUCTOR SIZE #12. 24V - MINIMUM CONDUCTOR SIZE #18. MINIMUM CONDUIT SIZE SHALL BE 34". CONDUIT INSTALLED OUTDOORS SHALL BE GAL SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR APPROVED MATERIALS AND METHODS OF INSTALLATION.
- 13. CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT OR STRUCTURAL ENGINEER.
- 14. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFO WORK. CONTRACTOR SHALL PROVIDE ACCESS DOORS, WHERE REQUIRED, FOR ALL CONCEALED SYSTEM COMPONENTS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RA MAINTAIN FIRE RATING OF WALL ON CEILING. ACCESS DOORS TO BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION. 15. CONTRACTOR SHALL OBSERVE CLEARANCES TO OBSTRUCTIONS.
- 16. CONTRACTOR SHALL PROVIDE METAL VALVE TAGS FOR ALL VALVES INSTALLED ON THE FIRE PROTECTION SYSTEM AND ALL OTHER REQUIRED IDENTIFICATION LABELS AND S
- 17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL FIRE PROTECTION SYSTEM PIPING, EQUIPMENT AND HEAD LOCATIONS WITH HYDRAULIC CALCULATIONS. COOI SPRINKLER HEAD AND PIPING LOCATIONS WITH OTHER CONTRACTORS TO AVOID CONFLICTS. RELOCATE SPRINKLER HEADS AND PIPING TO MEET FIELD CONDITIONS. SHOP DR SHALL SHOW SPRINKLER PIPE SIZES, PIPE HANGER REQUIREMENTS, FIRESTOPPING AND NECESSARY DETAILS REQUIRED FOR BUILDING DEPARTMENT AND INSURANCE (APPROVAL. HYDRAULIC CALCULATIONS SHALL BE BASED ON HYDRANT FLOW TEST PERFORMED BY THIS CONTRACTOR. SUBMIT SHOP DRAWINGS WITH HYDRAULIC CALCULA ENGINEER FOR APPROVAL. SHOP DRAWINGS AN HYDRAULIC CALCULATIONS SHALL BE SIGNED BY A NYS PROFESSIONAL ENGINEER.
- 18. CONTRACTOR SHALL FURNISH & INSTALL NEW SPRINKLER CABINET WITH MINIMUM SIX SPARE SPRINKLER HEADS AND WRENCH. INCLUDE SEPARATE CABINET WITH SPRINKLE
- WRENCH FOR EACH TYPE OF HEAD ON PROJECTION IN ACCORDANCE WITH NFPA 13. 19. WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE
- LINE CONNECTION. 20. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING (AND PROPERLY DISPOSING OF DRAINED WATER) AND FILLING THE NEW SYSTEM AS REQUIRED FOR COMPLETION OF PROVISIONS SHALL BE MADE FOR COMPLETE DRAINAGE OF THE SYSTEM.
- 21. PROVIDE (2) 2½ GALLON PRESSURIZED WATER AND (1) 10 POUND ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
- 22. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERATING AUTOMATIC FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13 AND NFPA 20.
- 23. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALL, FLOORS, AND CEILING IN FINISHED AREAS.
- 24. FIRE PROTECTION SYSTEM PIPING SHALL BE ALTERED AS NEEDED TO ACCOMMODATE CEILING HEIGHTS, DUCTWORK, LIGHTS AND OTHER PIPING. PROVIDE ALL REQUIRED PIPI FITTINGS AS NEEDED TO OFFSET SPRINKLER SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER SHOWN ON THE DR OR NOT.
- 25. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED WITH TOLERANCE OF ±½" OF THE CENTERLINE OF THE TILES. INSTALL SPRINKLER HEADS TIGHT TO THE OF THE HUNG CEILING, WITH CARE THAT THE FINISH IS NOT DAMAGED. WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES SHALL BE FLUSH WITH THE PLANE, TOLERANCE GREATER THAN \pm //" IS UNACCEPTABLE.
- 26. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES. 27. CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.
- 28. CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER HEADS AROUND ALL OBSTRUCTIONS SUCH AS LIGHTS, EQUIPMENT, COLUMNS, AND ETC. AS REQUIRED TO PROVIDE COMPLETE
- COVERAGE IN ACCORDANCE WITH NFPA 13. 29. ALL FLOW, TAMPER AND ALARM DEVICES MUST BE TIED INTO THE BUILDING'S FIRE ALARM SYSTEM. THIS CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR. THIS
- CONTRACTOR SHALL FURNISH AND INSTALL TAMPER-SWITCHES ON ALL SHUT-OFF VALVES.
- 30. ALL PRESSURE GAUGES SHALL BE LOCATED SO THEY ARE EASILY READABLE FROM THE FLOOR. MINIMUM ¼" GAUGE COCKS SHALL BE PROVIDED BETWEEN PIPING AND ALL GAUGES. INSTRUMENTS SHALL BE SELECTED SO THAT THE NORMAL RANGE OF OPERATING PRESSURE FALLS WITHIN THE MIDDLE-THIRD OF THE INSTRUMENT RANGE.
- 31. ALL VALVES SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED. SCREWED VALVES SHALL BE OF BRONZE CONSTRUCTION AND FLANGED VALVES OF CAST IRON CONSTRUCTION WITH BRONZE TRIM.
- 32. CONTRACTOR SHALL PROVIDE ALL REQUIRED SIGNAGE FOR FIRE PROTECTION SYSTEM. 33. ALL NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EXISTING EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.

SYMBOLS AND ABBREVIATIONS								
SYMBOL	ABBREVIATION	DESCRIPTION						
	-	POINT OF DISCONNECT/CONNECT						
	NEW	NEW WORK						
	EX.	EXISTING TO REMAIN						
	DEM.	EXISTING TO BE REMOVED						
۲		PENDENT OR UPRIGHT SPRINKLER HEAD						
И		SIDEWALL SPRINKLER HEAD						
	FP	FIRE PROTECTION						
	GPM	GALLONS PER MINUTE						
	HP	HORSEPOWER						
	HZ	HERTZ						
	MAX.	MAXIMUM						
	MIN.	MINIMUM						
ø	DIA. OR PH	DIAMETER OR PHASE						
	PSI	POUNDS PER SQUARE INCH						
	SQ. FT.	SQUARE FEET						
	V	VOLTS						
Ĵ		BUTTERFLY VALVE						
FS	FS	FLOW SWITCH						
T	TS	TAMPER SWICTH						
c—		ELBOW DOWN						
o—		ELBOW UP						
		FIRE DEPARTMENT CONNECTION						
\mathbf{A}		OS&Y GATE VALVE						
		CHECK VALVE						

ALL FIRE PROTECTION WORK, UNLESS OTHERWISE NOTED, SHALL BE PERFORMED AS PART OF THE

FOR	FIRE PROTECTION SYSTEM TESTS	
ESE ERE	1. HYDROSTATIC TEST: ALL PIPING AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT MINIMUM OF 200 PSI OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.	
	2. SYSTEM OPERATIONAL TESTS - WATER FLOW DETECTING DEVICES.	
ED IN	3. MAIN DRAIN VALVE - STATIC AND RESIDUAL PRESSURES.	
NT	4. CONTRACTOR SHALL PERFORM ALL FIRE PROTECTION SYSTEM TESTS REQUIRED BY NFPA 13, AND LOCAL FIRE INSPECTOR, OR AUTHORITY HAVING JURISDICTION.	
OF	5. ALL TESTS SHALL BE WITNESSED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION. SUBMIT REPORT ON ALL TESTS TO LOCAL FIRE INSPECTOR AND ENGINEER FOR APPROVAL.	
IAL	6. DRY PIPE AIR TEST: IN ADDITION TO THE STANDARD HYDROSTATIC TEST, AN AIR PRESSURE LEAKAGE TEST AT 40 PSI SHALL BE CONDUCTED FOR 24 HOURS, ANY LEAKAGE THAT RESULTS IN A LOSS OF PRESSURE IN EXCESS OF 1½ PSI FOR THE 24 HOURS SHALL BE CORRECTED.	
ER		
it,	FIRE PROTECTION SYSTEM REQUIREMENTS	
	OCCUPANCY CLASSIFICATIONS:	
	1. NFPA 13 LIGHT HAZARD: ALL AREAS UNLESS OTHERWISE NOTED.	
اب	2. NFPA 13 ORDINARY HAZARD I: MECHANICAL ROOM 116, DATA CLOSET 126 AND TECHNICAL 224	
1T D.	FIRE PROTECTION SERVICE REQUIREMENTS:	
HE TO	1. NFPA 13 LIGHT HAZARD: • MINIMUM WATER SUPPLY (1500 SQ. FT. X 0.10 GPM/SQ. FT.) • HOSE STREAM ALLOWANCE AT SOURCE • MINIMUM FLOW (FINAL FLOW REQUIREMENT BASED ON HYDRAULIC CALCULATIONS) • 250 GPM	
E.	2. NFPA 13 LIGHT HAZARD (DRY SYSTEM): • MINIMUM WATER SUPPLY (1500 SQ. FT. X 0.10 GPM/SQ. FT. X 1.3) • HOSE STREAM ALLOWANCE AT SOURCE • MINIMUM FLOW (FINAL FLOW REQUIREMENT BASED ON HYDRAULIC CALCULATIONS)	
re GS R	3. NFPA 13 ORDINARY HAZARD GROUP I: • MINIMUM WATER SUPPLY (1500 SQ. FT. X 0.15 GPM/SQ. FT.) • HOSE STREAM ALLOWANCE AT SOURCE • MINIMUM FLOW (FINAL FLOW REQUIREMENT BASED ON HYDRAULIC CALCULATIONS) • 475 GPM	
0	FIRE PROTECTION SYSTEM REQUIREMENTS:	ADD ALTERNATE #1-
D	1. MINIMUM PRESSURE AT SPRINKLER HEAD SHALL BE 7 PSI UNLESS OTHERWISE NOTED.	
Н	2. FLOW VELOCITY IN PIPING SHALL NOT EXCEED 20 FEET PER SECOND.	
	3. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13.	
Κ.	4. LIGHT HAZARD MAXIMUM SPRINKLER HEAD PROTECTION AREA: 225 SQ. FT.	
	5. ORDINARY HAZARD GROUP I MAXIMUM SPRINKLER HEAD PROTECTION AREA: 130 SQ. FT.	
	FLOW TEST:	
	1. CONTRACT SHALL PERFORM A HYDRANT FLOW TEST ON THE EXISTING MUNICIPAL WATER SYSTEM. FIRE PROTECTION SYSTEM HYDRAULIC CALCULATIONS SHALL BE BASED ON HYDRANT FLOW TEST RESULTS.	



SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
И	RELIABLE	F1FR56	HORIZONTAL SIDEWALL, QUICK RESPONSE, GLASS BULB SPRINKLER HEAD, 5.6 K-FACTOR, ½" NOMINAL ORIFICE, 100 MAXIMUM AMBIENT TEMPERATURE, AND 155°F TEMPERATURE RATING. BRASS FINISH.
КB	RELIABLE	F1FR56	RECESSED, HORIZONTAL SIDEWALL, QUICK RESPONSE, GLASS BULB SPRINKLER HEAD WITH MODEL F2 ESCUTCHEON, 5.6 K-FACTOR, ½" NOMINAL ORIFICE, 150°F MAXIMUM AMBIENT TEMPERATURE, AND 175°F TEMPERATURE RATING. SPRINKLER HEAD AND ESCUTCHEON FINISHES SHALL BE AS SELECTED BY ARCHITECT.
€	RELIABLE	G5-56	ADJUSTABLE, CONCEALED, QUICK RESPONSE, GLASS BULB SPRINKLER HEAD WITH COVER PLATE, 5.6 K-FACTOR, ½ NOMINAL ORIFICE, 100°F MAXIMUM AMBIENT TEMPERATURE, AND ORDINARY CLASSIFICATION 165°F SPRINKLER AND 135°F COVER PLATE. COVER PLATE FINISH SHALL BE AS SELECTED BY ARCHITECT.
⊕ _A	RELIABLE	F1FR56	UPRIGHT, QUICK RESPONSE, GLASS BULB SPRINKLER HEAD WITH 5.6 K-FACTOR, ½" NOMINAL ORIFICE, 100°F MAXIMU AMBIENT TEMPERATURE, AND 135°F TEMPERATURE RATING. SPRINKLER HEAD FINISH SHALL BE AS SELECTED BY ARCHITECT.
<u></u>			WET PIPE SPRINKLER SYSTEM PIPING: SCHEDULE 40 BLACK STEEL PIPE WITH SCREWED JOINTS FOR PIPING UP TO AND INCLUDING 2-INCHES. USE SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL GROOVED COUPLINGS FOR PIPING OVER 2-INCHES.
FS	SYSTEM SENSOR	WFDN	VANE TYPE, UL LISTED FLOW SWITCH WITH NEMA 4 ENCLOSURE, TWO SETS OF SPDT CONTROLS, 450 PSI PRESSUR RATING, (2) CONDUIT ENTRANCES AND 4-10 GPM TRIGGER RANGE.
Т	SYSTEM SENSOR	PIBV2	BUTTERFLY VALVE TAMPER SWITCH, UL LISTED WITH NEMA 3R ENCLOSURE, AND TWO SETS OF SPDT CONTACTS.
	RELIABLE	CVE	4" RISER CHECK VALVE (CONTRACTOR TO VERIFY SIZE BASED ON HYDRAULIC CALCULATIONS), UL LISTED, FM APPROVED, SPRING LOADED CHECK VALVE WITH RATED WORKING PRESSURE OF 300 PSI. VALVE BODY AND COVER CONSTRUCTION SHALL CONSIST OF GRAY IRON PER ASTM-A48 CLASS 30A. CHECK VALVE SHALL HAVE A THREADED ONE PIECE SEAT OF BRONZE CONSTRUCTION FOR EASE OF MAINTENANCE, AND O-RING SEALS TO PREVENT CORROSION AND LEAKAGE. CLAPPER ASSEMBLY SHALL BE DUCTILE IRON CASTING WITH BRASS BUSHING ASSEMBL WITH EPDM RUBBER FACING SEAL AND STAINLESS STEEL CLAMPING RING. END CONNECTIONS TO BE GROOVED. TH VALVE BODY SHALL HAVE A REMOVABLE FACEPLATE FOR EASE OF INSPECTION AND MAINTENANCE AS REQUIRED E NFPA 25. THE RISER CHECK VALVE SHALL BE FACTORY TAPPED WITH ONE ½" AND TWO 2" NPT PLUGGED CONNECTIONS. BASIC RISER CHECK VALVE TRIM SHALL CONSIST OF GALVANIZED AND BRASS TRIM COMPONENTS, INCLUDING 2 INCH MAIN DRAIN, AND BOTH SYSTEM AND SUPPLY WATER PRESSURE GAUGES.
\diamond	RELIABLE	FX	DRY VALVE SHALL BE A UL LISTED, FM APPROVED DIFFERENTIAL STYLE CLAPPER DRY-PIPE VALVE. VALVE CONSTRUCTION SHALL BE DUCTILE IRON AND UTILIZE STAINLESS STEEL SEAT AND CLAPPER ASSEMBLY WITH A SINGLE HINGE PIN. CLAPPER GASKET SHALL BE INTEGRATED INTO THE SEAT ASSEMBLY AND THE VALVE TRIM SHAL BE GALVANIZED. DRY-PIPE VALVE SHALL HAVE AN EXTERNAL RESET FEATURE AND NOT REQUIRE PRIMING WATER. VALVE SHALL BE ACTIVATED BY A LOSS OF SUPERVISORY PNEUMATIC PRESSURE BASED ON A DIFFERENTIAL OF SIZ TO ONE OF THE HYDRAULIC PRESSURE SIDE VERSUS THE PNEUMATIC PRESSURE SIDE, RESPECTIVELY. SUPERVISORY PRESSURE TO BE PER THE MANUFACTURER'S REQUIREMENTS. VALVE SHALL HAVE A RATED WORKII PRESSURE OF 250 PSI. VALVE SIZE SHALL BE 2" (CONTRACTOR TO VERIFY SIZE BASED ON HYDRAULIC CALCULATION WITH GROOVE/GROOVE END CONNECTIONS. VALVE SHALL BE FULLY ASSEMBLED AND INCLUDE ALL REQUIRED TRIM INCLUDING BUT NOT LIMITED TO: HIGH/LOW AIR SUPERVISORY SWITCH, WATER FLOW ALARM PRESSURE SWITCH, CONTROL VALVE, PRESSURE GAUGES, MAIN DRAIN VALVE, AIR INLET VALVE, AIR INLET CHECK VALVE, ALARM TEST VALVE, EXTERNAL RESET, ALARM LINE BALL DRIP VALVE, INTERMEDIATE CHAMBER BALL DRIP VALVE, TRIM PIPING, ETC.
	RELIABLE	RRMA23016-4050	TANK-LESS, PIPE MOUNTED AIR COMPRESSOR WITH WITH 100 PSI SAFETY RELIEF VALVE, PIPE MOUNTING SYSTEM A CONNECTION KIT (AIR PRESSURE GAUGE, BALL VALVE AND ½" X 30" STAINLESS STEEL HOSE). CUT-IN AT 40 PSI AND CUT-OUT AT 50 PSI. ELECTRICAL: 115V/1Ø/60HZ, ½ HP, 4.4 FULL LOAD AMPS AND 26 START UP AMPS. PROVIDE DISCONNECT SWITCH. FINAL COMPRESSOR SIZING TO BE VERIFIED BY CONTRACTOR BASED ON SYSTEM PIPING LAYOUT.
⊛ _B	RELIABLE	F1FR56	UPRIGHT, QUICK RESPONSE, GLASS BULB SPRINKLER HEAD WITH 5.6 K-FACTOR, ½" NOMINAL ORIFICE, 100°F MAXIMU AMBIENT TEMPERATURE, AND 135°F TEMPERATURE RATING. SPRINKLER HEAD FINISH SHALL BE AS SELECTED BY ARCHITECT. FOR USE IN DRY PIPE SPRINKLER SYSTEM.
<u>\</u>	· · · · · · · · · · · · · · · · · · ·		DRY PIPE SPRINKLER SYSTEM PIPING: SCHEDULE 40 GALVANIZED STEEL PIPE WITH SCREWED JOINTS FOR PIPING IN TO AND INCLUDING 2-INCHES. USE SCHEDULE 10 GALVANIZED STEEL PIPE WITH MECHANICAL GROOVED COUPLING FOR PIPING OVER 2-INCHES.

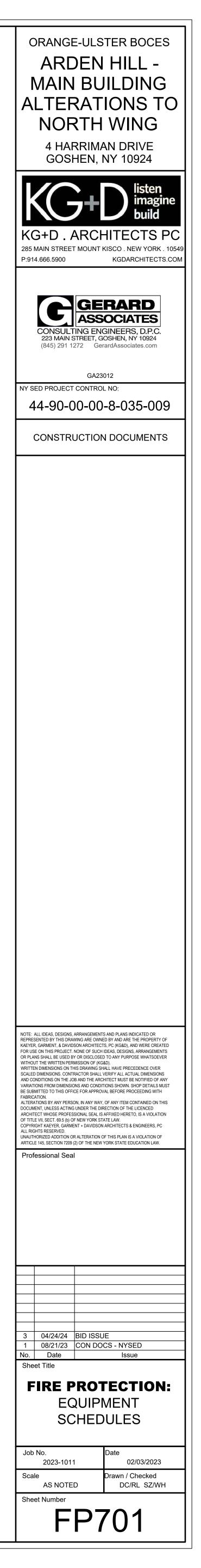
2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE.

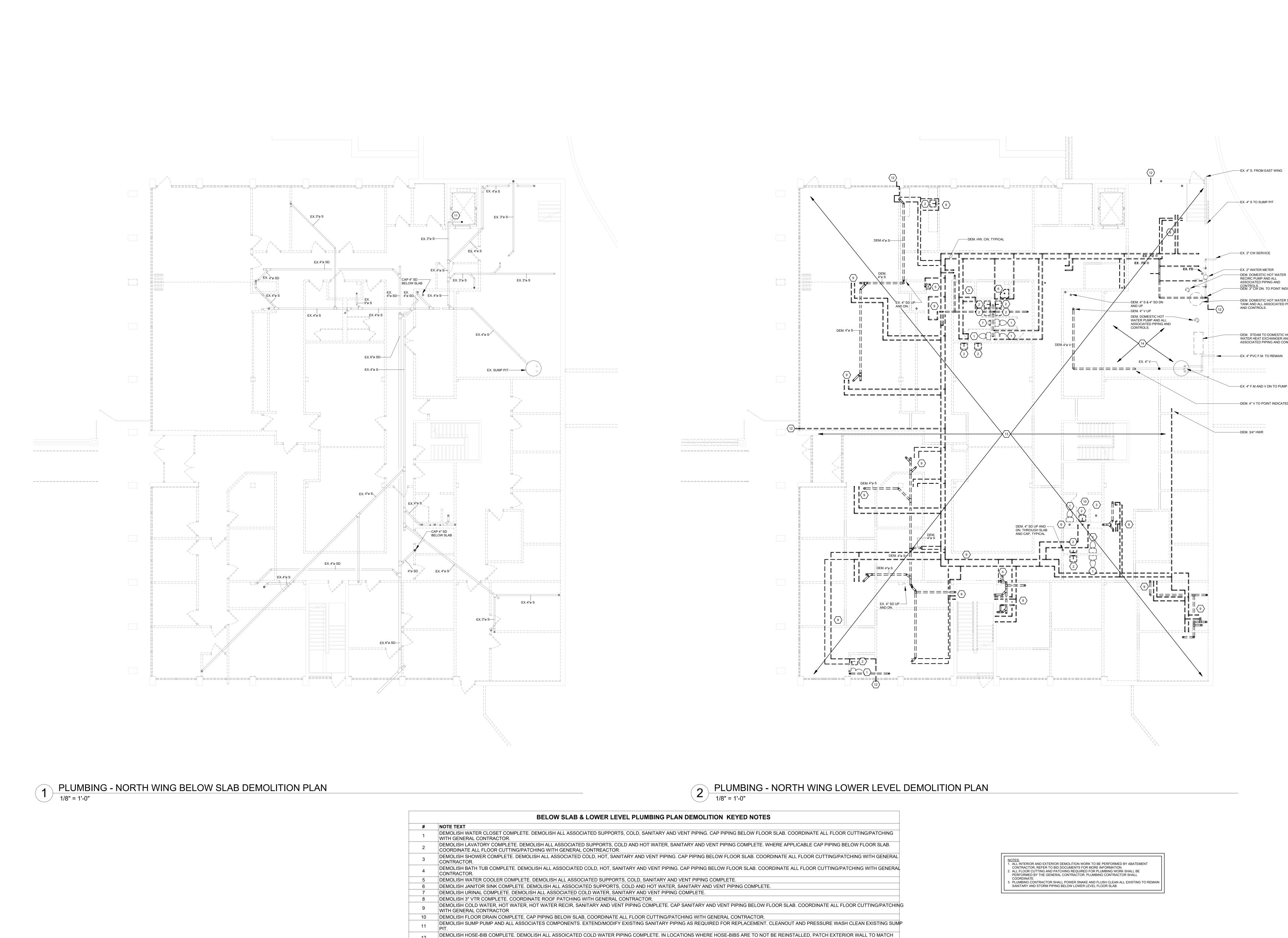
3. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS.

COORDINATE HEATING EQUIPMENT LOCATIONS WITH MECHANICAL PLANS.

4. CONTRACTOR SHALL FURNISH & INSTALL SHIELDS ON SPRINKLERS THAT CANNOT BE SUFFICIENTLY SPACED TO AVOID DISCHARGE INTERACTION.

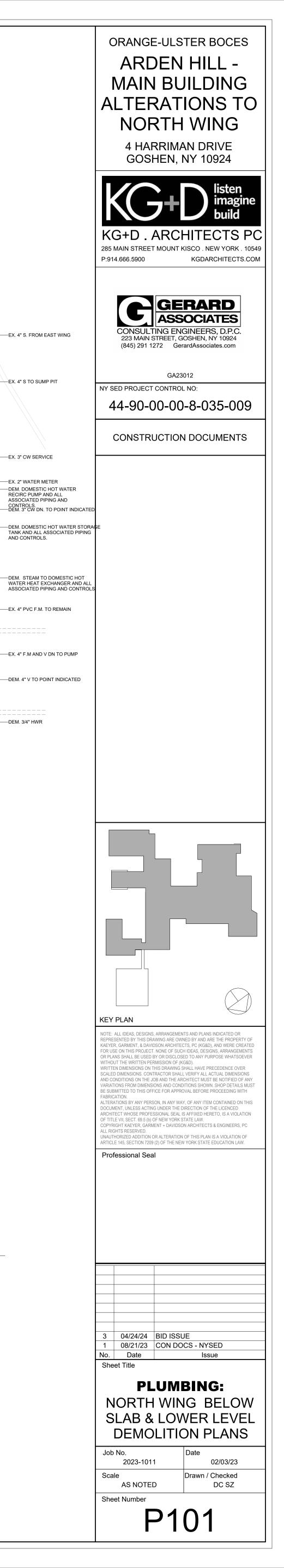
5. FINAL K-FACTOR OF SPRINKLER HEADS BASED UPON HYDRAULIC CALCULATION REQUIREMENTS.

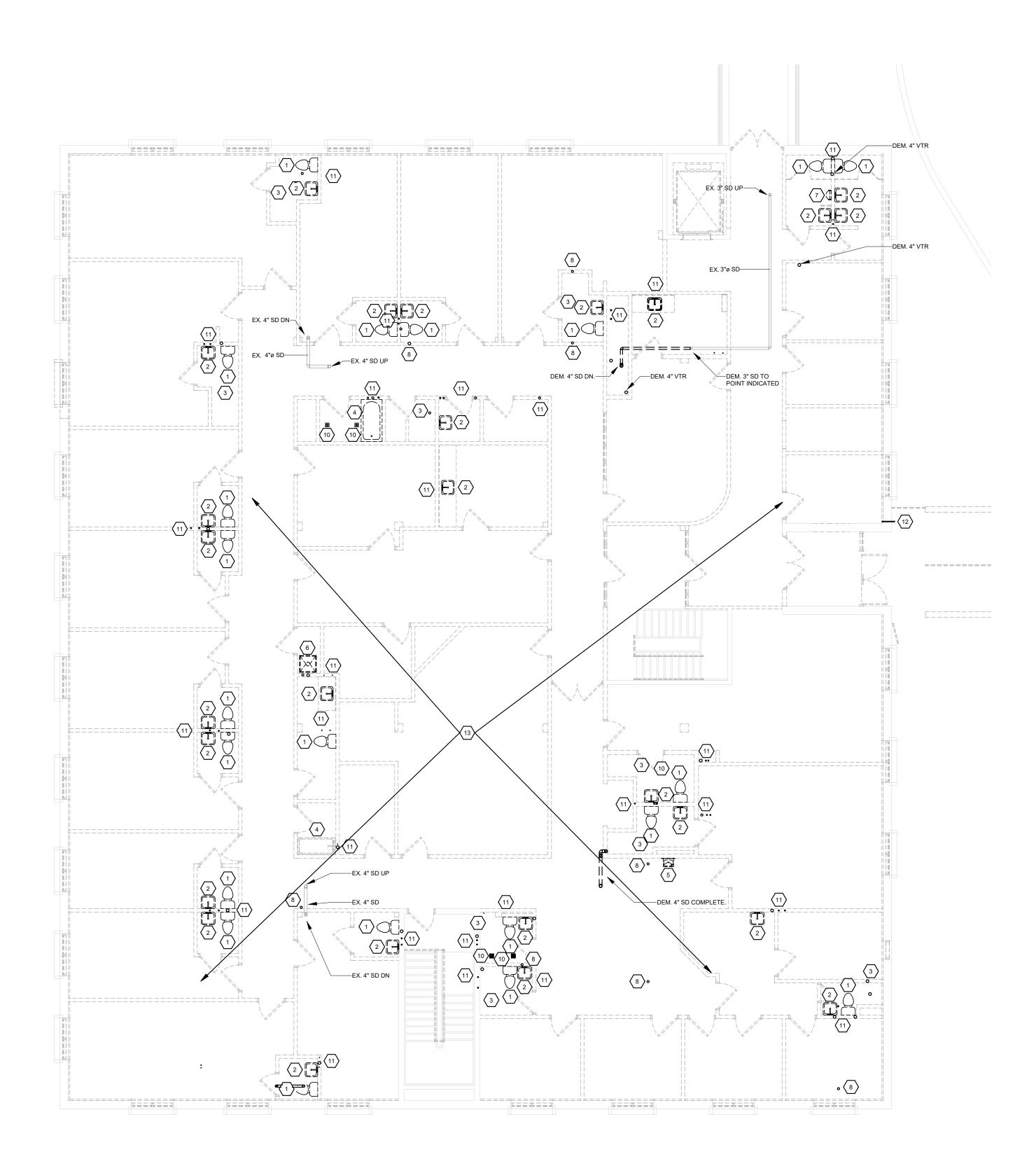




	BELOW SLAB & LOWER LEVEL PLUMBING PLAN DEMOLITION KEYED NOTES
#	NOTE TEXT
1	DEMOLISH WATER CLOSET COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD, SANITARY AND VENT PIPING. CAP PIPING BELOW FLOOR SLAB. COORDINATE ALL F WITH GENERAL CONTRACTOR.
2	DEMOLISH LAVATORY COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD AND HOT WATER, SANITARY AND VENT PIPING COMPLETE. WHERE APPLICABLE CAP PIPI COORDINATE ALL FLOOR CUTTING/PATCHING WITH GENERAL CONTREACTOR.
3	DEMOLISH SHOWER COMPLETE. DEMOLISH ALL ASSOCIATED COLD, HOT, SANITARY AND VENT PIPING. CAP PIPING BELOW FLOOR SLAB. COORDINATE ALL FLOOR CUTTIN CONTRACTOR.
4	DEMOLISH BATH TUB COMPLETE. DEMOLISH ALL ASSOCIATED COLD, HOT, SANITARY AND VENT PIPING. CAP PIPING BELOW FLOOR SLAB. COORDINATE ALL FLOOR CUTTIN CONTRACTOR.
5	DEMOLISH WATER COOLER COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD, SANITARY AND VENT PIPING COMPLETE.
6	DEMOLISH JANITOR SINK COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD AND HOT WATER, SANITARY AND VENT PIPING COMPLETE.
7	DEMOLISH URINAL COMPLETE. DEMOLISH ALL ASSOCIATED COLD WATER, SANITARY AND VENT PIPING COMPLETE.
8	DEMOLISH 3" VTR COMPLETE. COORDINATE ROOF PATCHING WITH GENERAL CONTRACTOR.
9	DEMOLISH COLD WATER, HOT WATER, HOT WATER RECIR, SANITARY AND VENT PIPING COMPLETE. CAP SANITARY AND VENT PIPING BELOW FLOOR SLAB. COORDINATE A WITH GENERAL CONTRACTOR
10	DEMOLISH FLOOR DRAIN COMPLETE. CAP PIPING BELOW SLAB, COORDINATE ALL FLOOR CUTTING/PATCHING WITH GENERAL CONTRACTOR.
11	DEMOLISH SUMP PUMP AND ALL ASSOCIATES COMPONENTS. EXTEND/MODIFY EXISTING SANITARY PIPING AS REQUIRED FOR REPLACEMENT. CLEANOUT AND PRESSURE PIT.
12	DEMOLISH HOSE-BIB COMPLETE. DEMOLISH ALL ASSOICATED COLD WATER PIPING COMPLETE. IN LOCATIONS WHERE HOSE-BIBS ARE TO NOT BE REINSTALLED, PATCH E EXISTING CONDITIONS OR BETTER.
13	DEMOLISH ALL COLD, HOT, HOT WATER RECIRC., SANITARY AND VENT PIPING COMPLETE. CAP SANITARY AND VENT PIPING BELOW FINISHED FLOOR. COORDINATE FLOOF WITH GENERAL CONTRACTOR.
14	UNLESS OTHERWISE NOTED ALL PLUMBING EQUIPMENT, ASSOCIATED PIPING AND CONTROLS IN MECHANICAL ROOM SHALL BE REMOVED.

OR CUTTING AND PATCHING

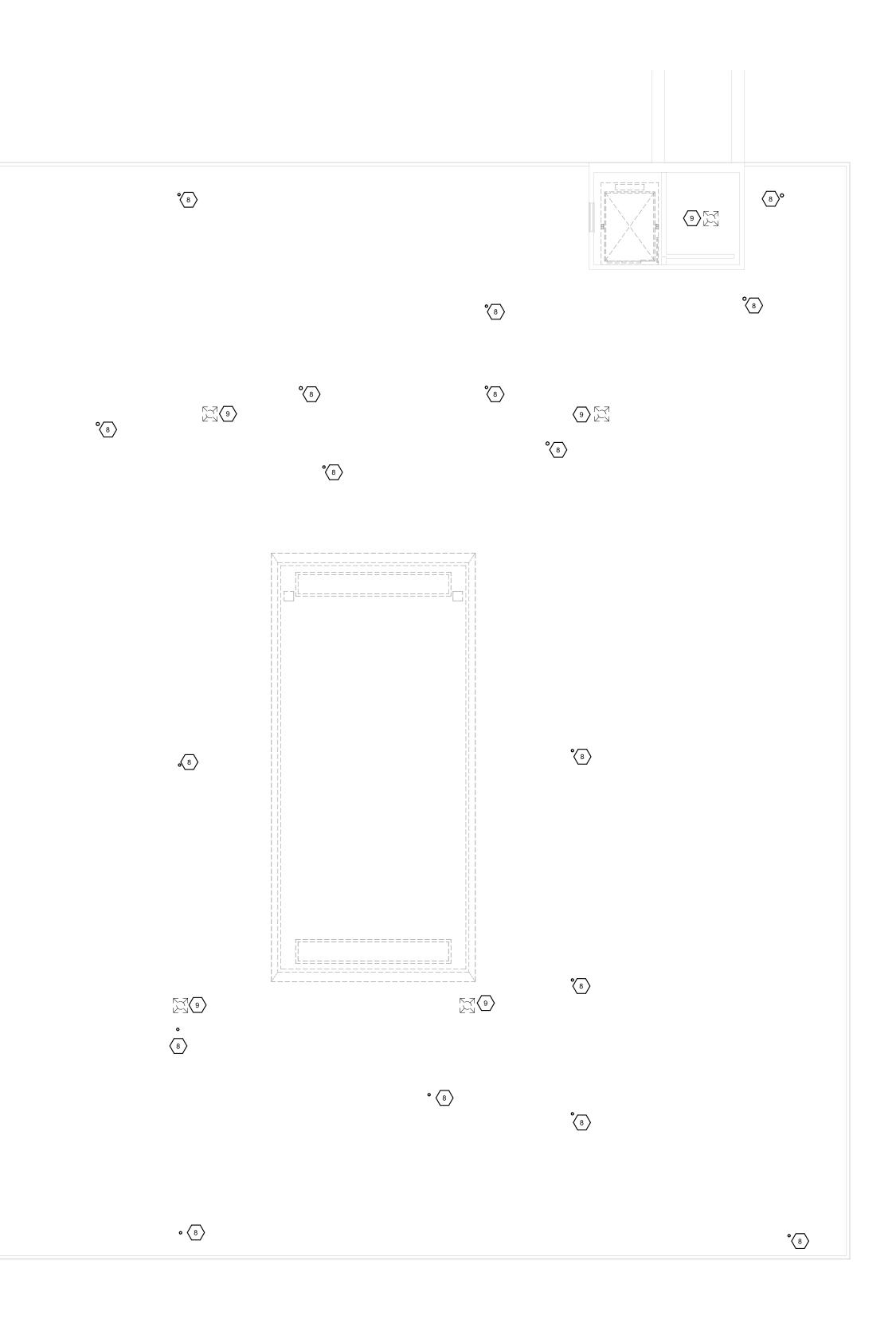




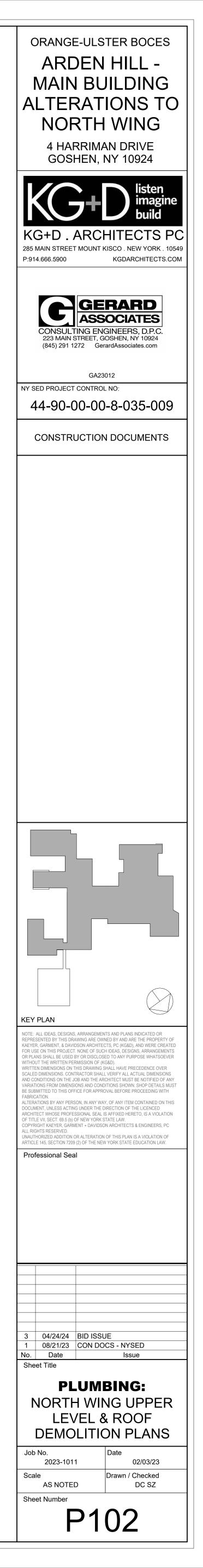
1 PLUMBING - NORTH WING UPPER LEVEL DEMOLITION PLAN 1/8" = 1'-0"

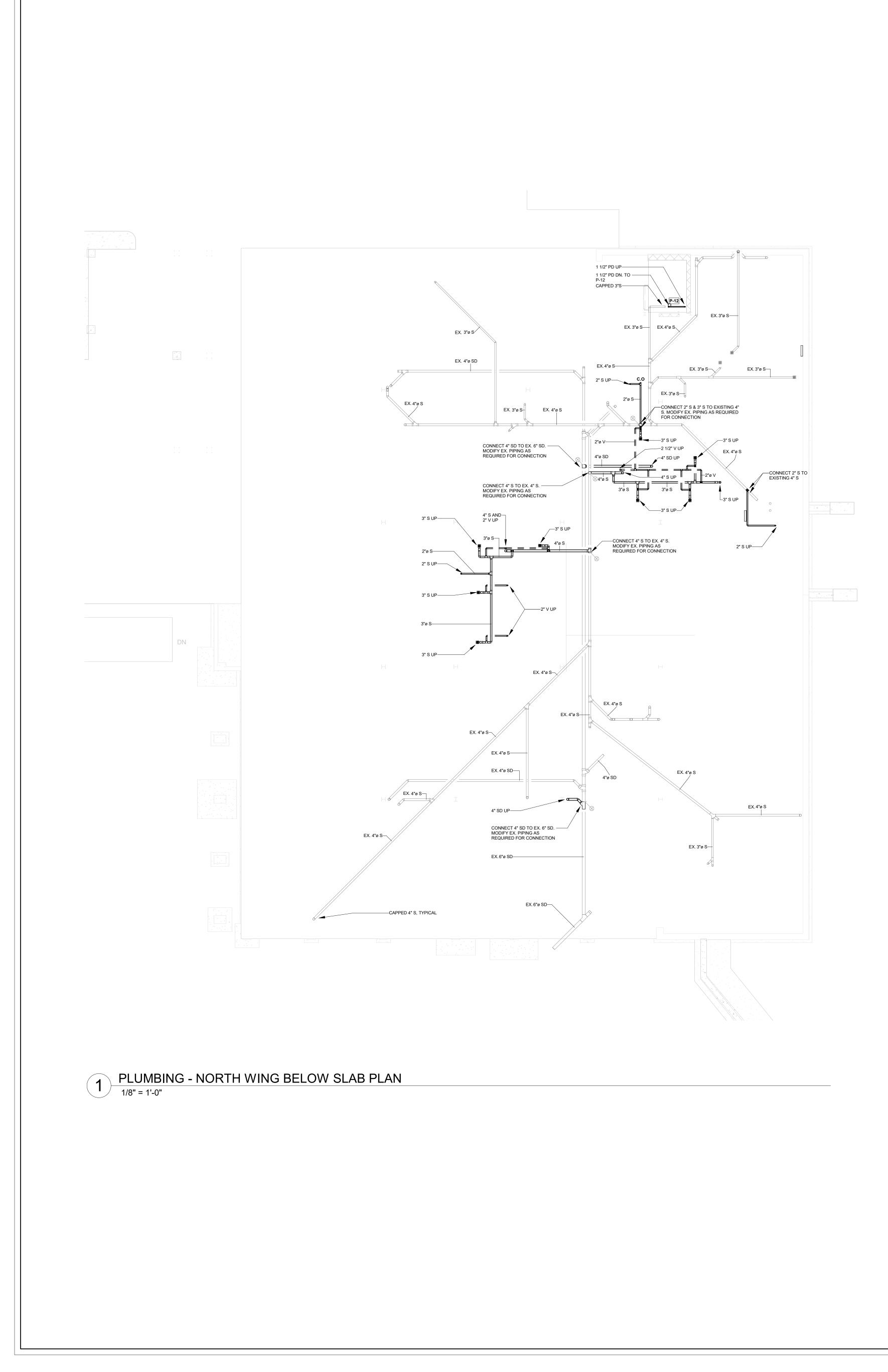


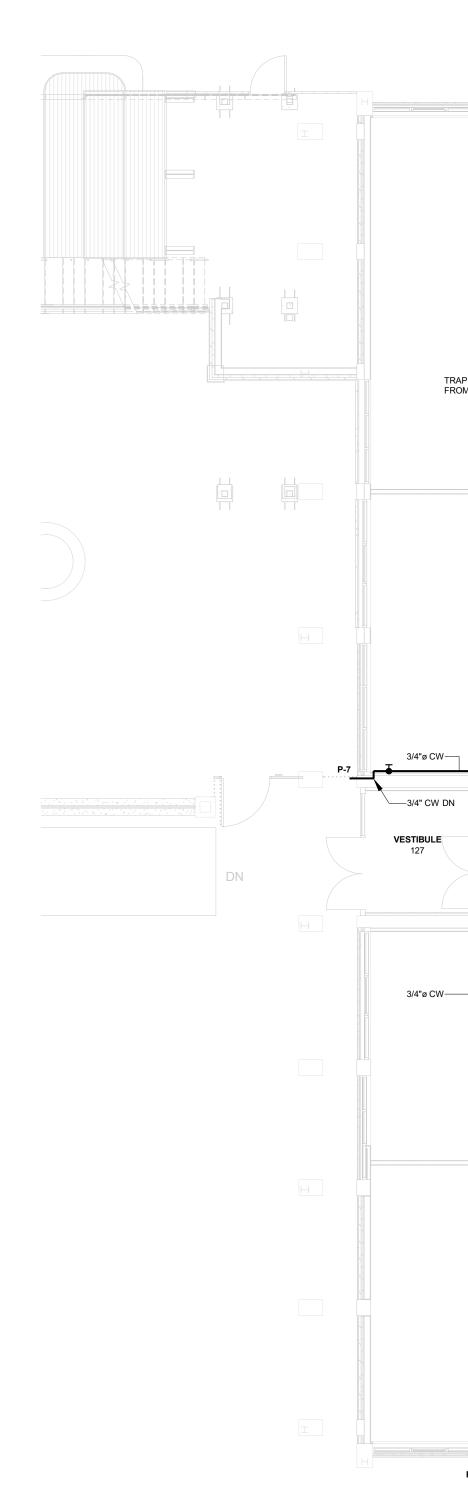
	PLUMBING PLAN DEMOLITION KEYED NOTES
#	NOTE TEXT
1	DEMOLISH WATER CLOSET COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD WATER, SANITARY AND VENT PIPING COMPLETE.
2	DEMOLISH LAVATORY COMPLETE. DEMOLISH ALL ASSOCIATEDSUPPORTS, COLD AND HOT WATER, SANITARY AND VENT PIPING COMPLETE.
3	DEMOLISH SHOWER COMPLETE. DEMOLISH ALL ASSOCIATED COLD AND HOT WATER, SANITARY AND VENT PIPING COMPLETE.
4	DEMOLISH BATH TUB COMPLETE. DEMOLISH ALL ASSOCIATED COLD AND HOT WATER, SANITARY AND VENT PIPING COMPLETE.
5	DEMOLISH WATER COOLER COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD, SANITARY AND VENT PIPING COMPLETE.
6	DEMOLISH JANITOR SINK COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD AND HOT WATER, SANITARY AND VENT PIPING COMPLETE.
7	DEMOLISH URINAL COMPLETE. DEMOLISH ALL ASSOCIATED SUPPORTS, COLD WATER, SANITARY AND VENT PIPING COMPLETE.
8	DEMOLISH VENT AND VENT THROUGH ROOF COMPLETE. DEMOLISH ALL ASSOCIATED VENT PIPING.
9	DEMOLISH ROOF DRAIN AND ALL ASSOCIATED COMPONENTS AS REQUIRED FOR REPLACEMENT.
10	DEMOLISH FLOOR DRAIN COMPLETE. DEMOLISH ALL ASSOCIATED SANITARY AND VENT PIPING COMPLETE.
11	DEMOLISH COLD WATER, HOT WATER, HOT WATER RECIR, SANITARY AND VENT PIPING COMPLETE.
12	DEMOLISH HOSE-BIB COMPLETE. DEMOLISH ALL ASSOICATED COLD WATER PIPING COMPLETE.
13	DEMOLISH COLD WATER, HOT WATER, HOT WATER RECIR, SANITARY AND VENT PIPING COMPLETE.



NOTES: 1. ALL INTERIOR AND EXTERIOR DEMOLITION WORK TO BE PERFORMED BY ABATEMENT CONTRACTOR, REFER TO BID DOCUMENTS FOR MORE INFORMATION. 2. PLUMBING CONTRACTOR SHALL POWER SNAKE AND FLUSH CLEAN ALL EXISTING TO REMAIN STORM PIPING.



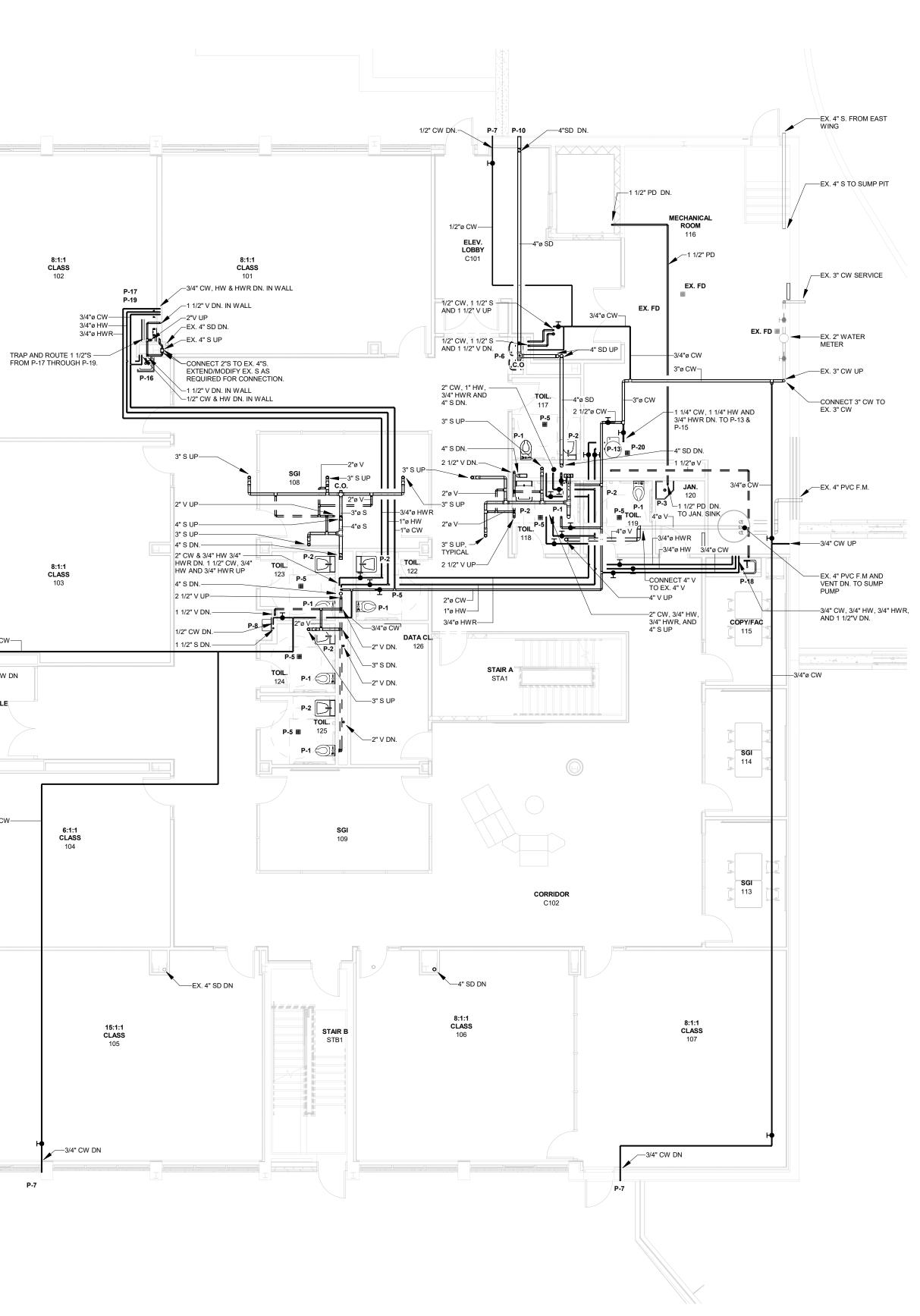


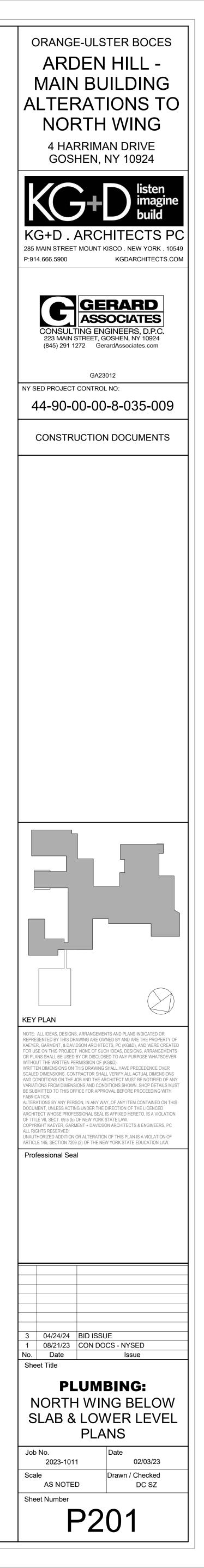


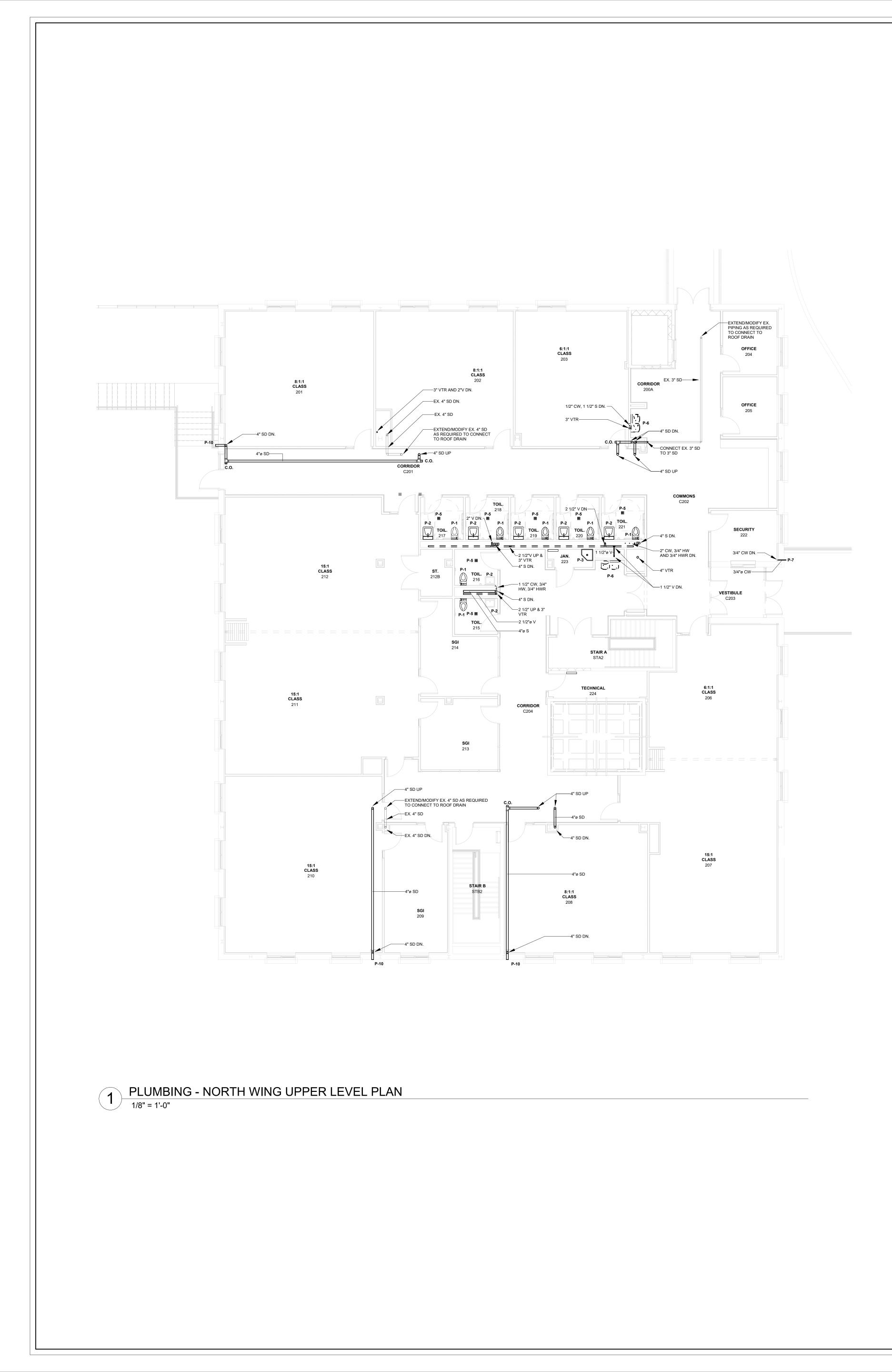


2 PLUMBING - NORTH WING LOWER LEVEL PLAN 1/8" = 1'-0"

NOTES: 1. ALL FLOOR CUTTING AND PATCHING REQUIRED FOR PLUMBING WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE.

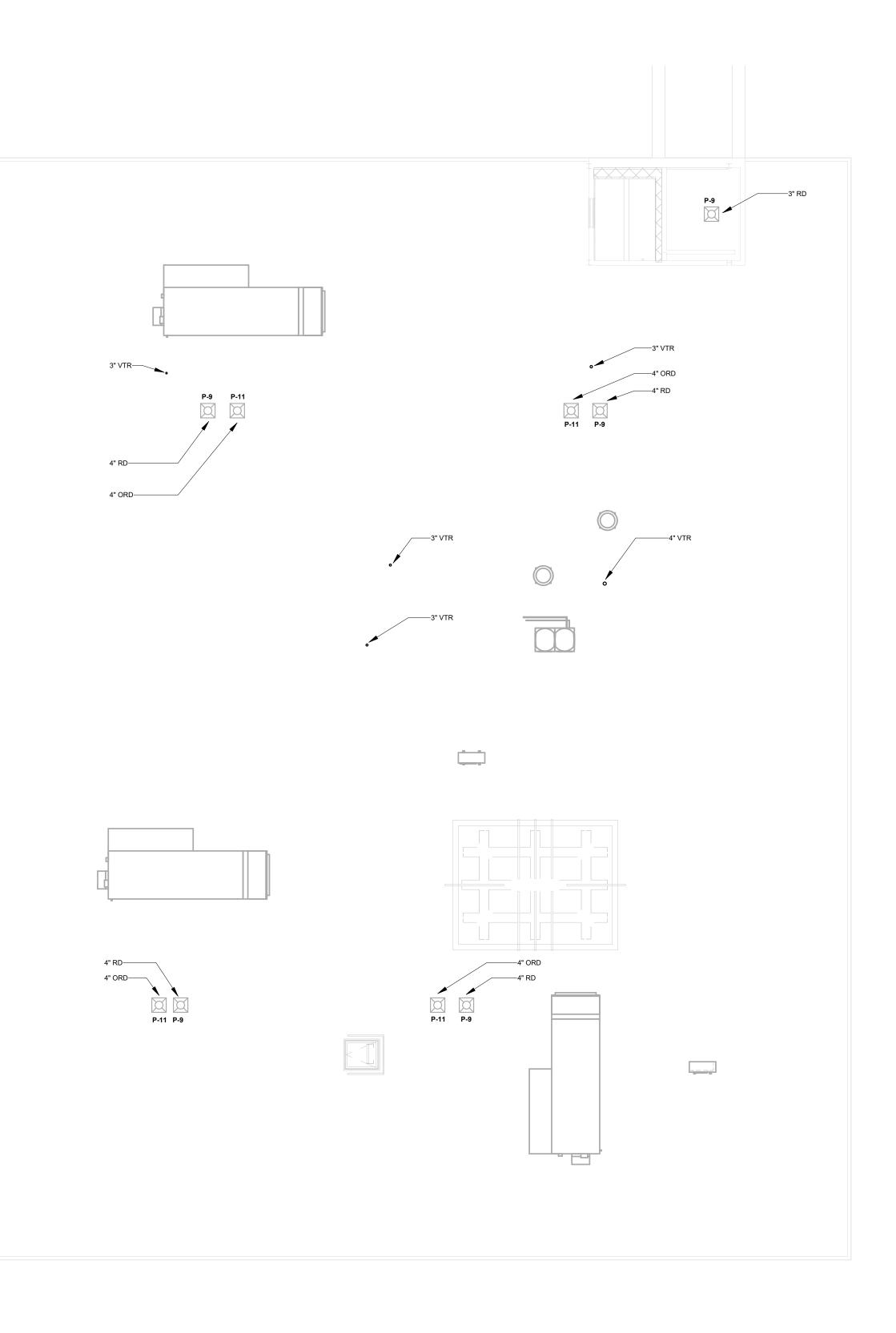


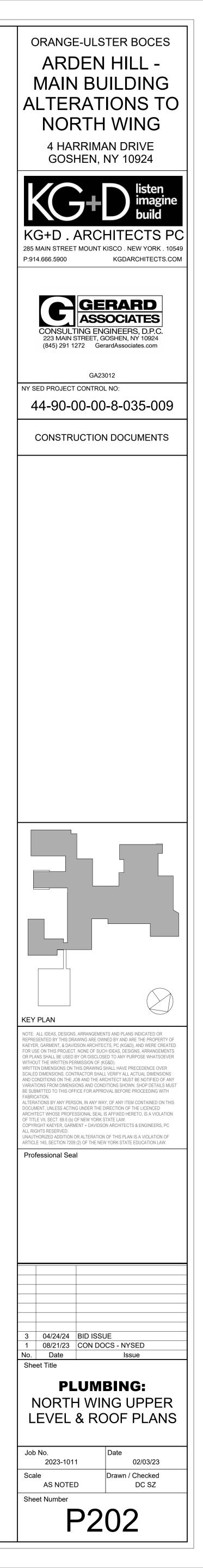


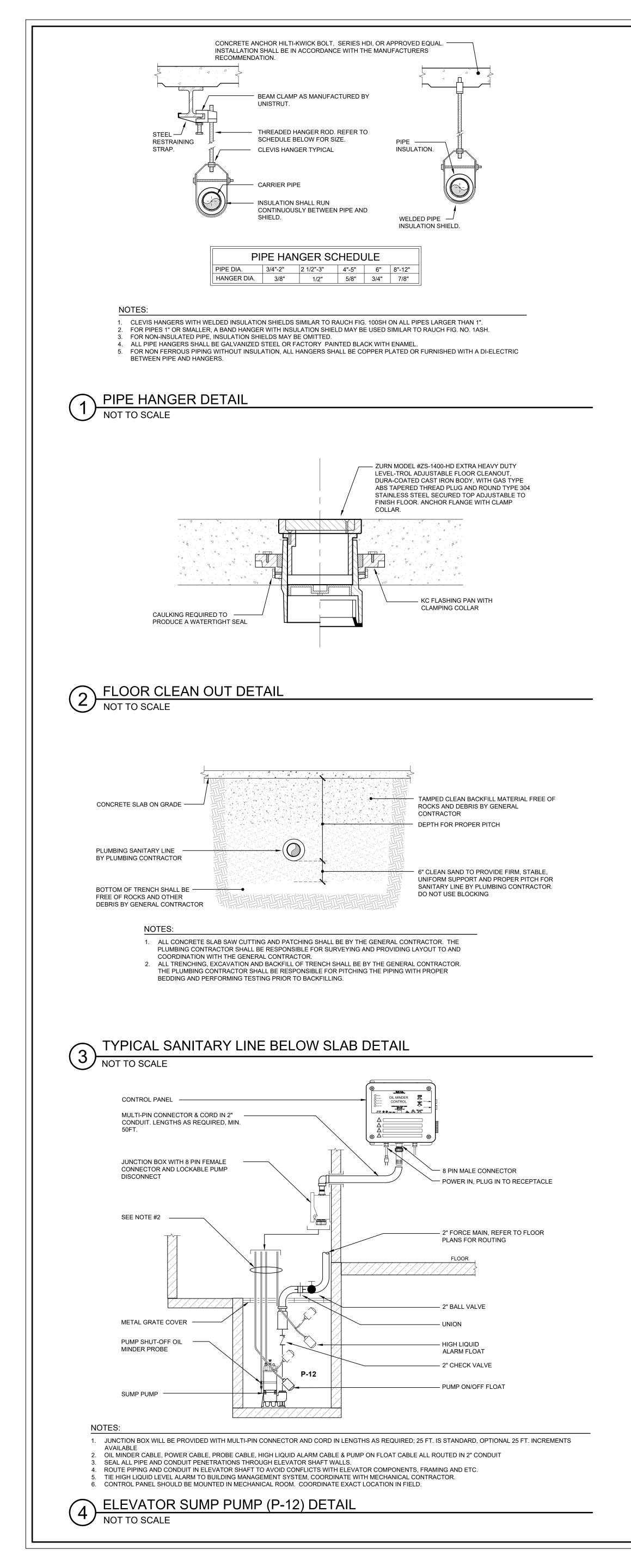


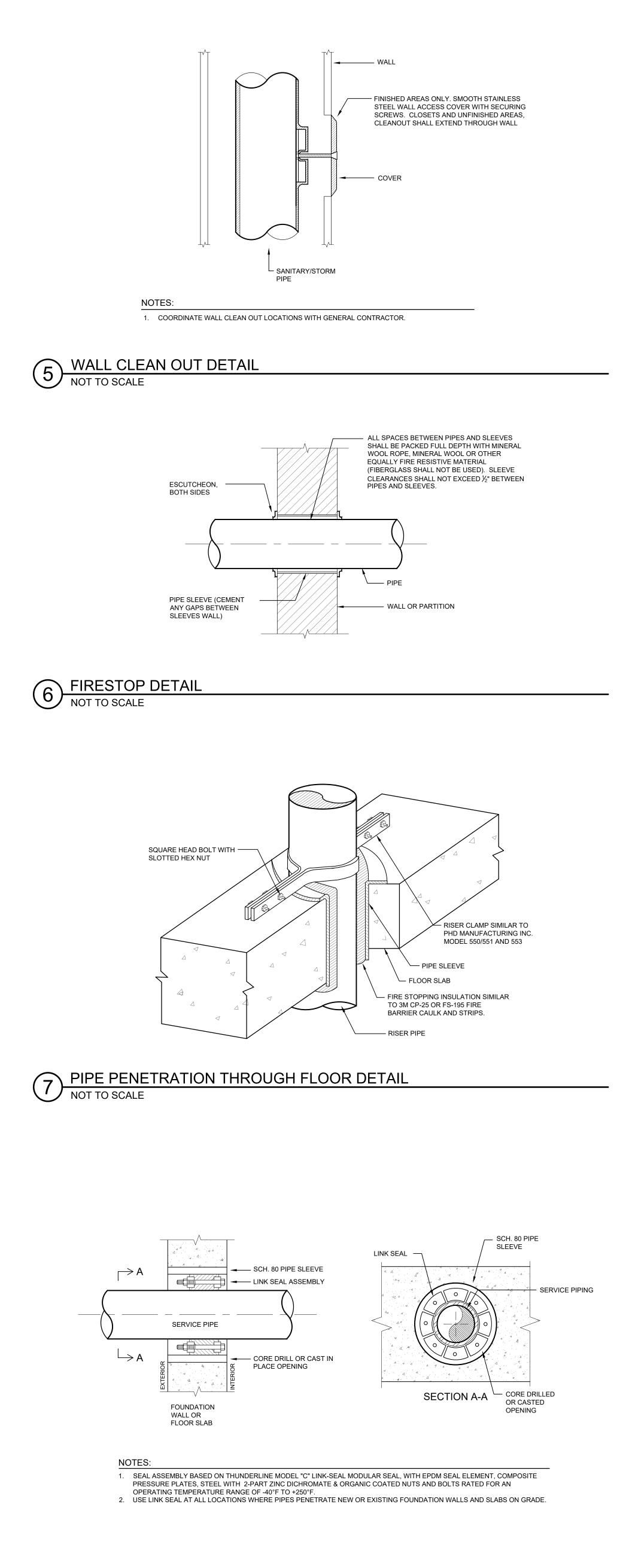


2 PLUMBING - NORTH WING ROOF PLAN 1/8" = 1'-0"

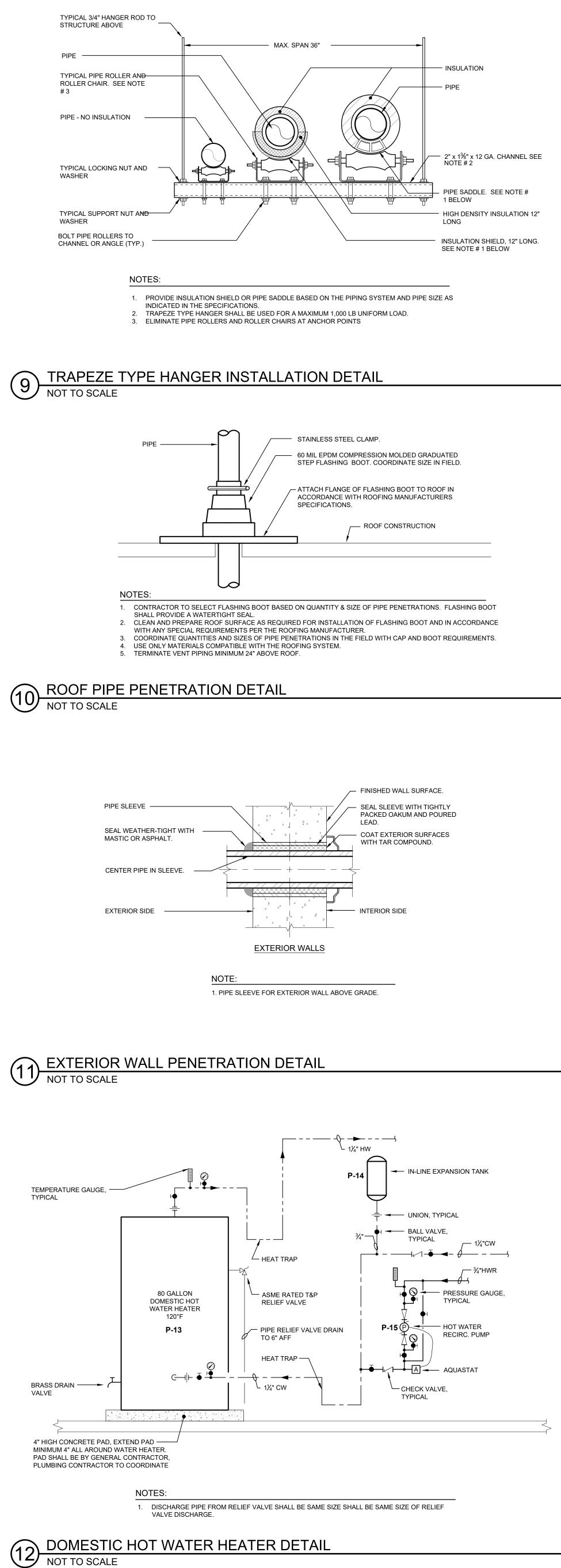


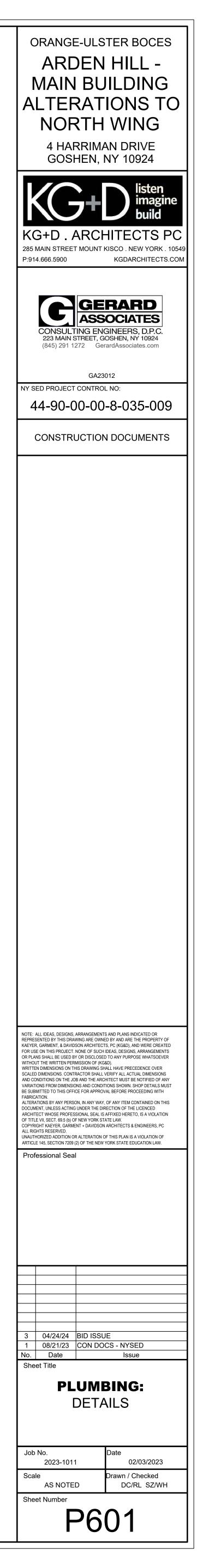


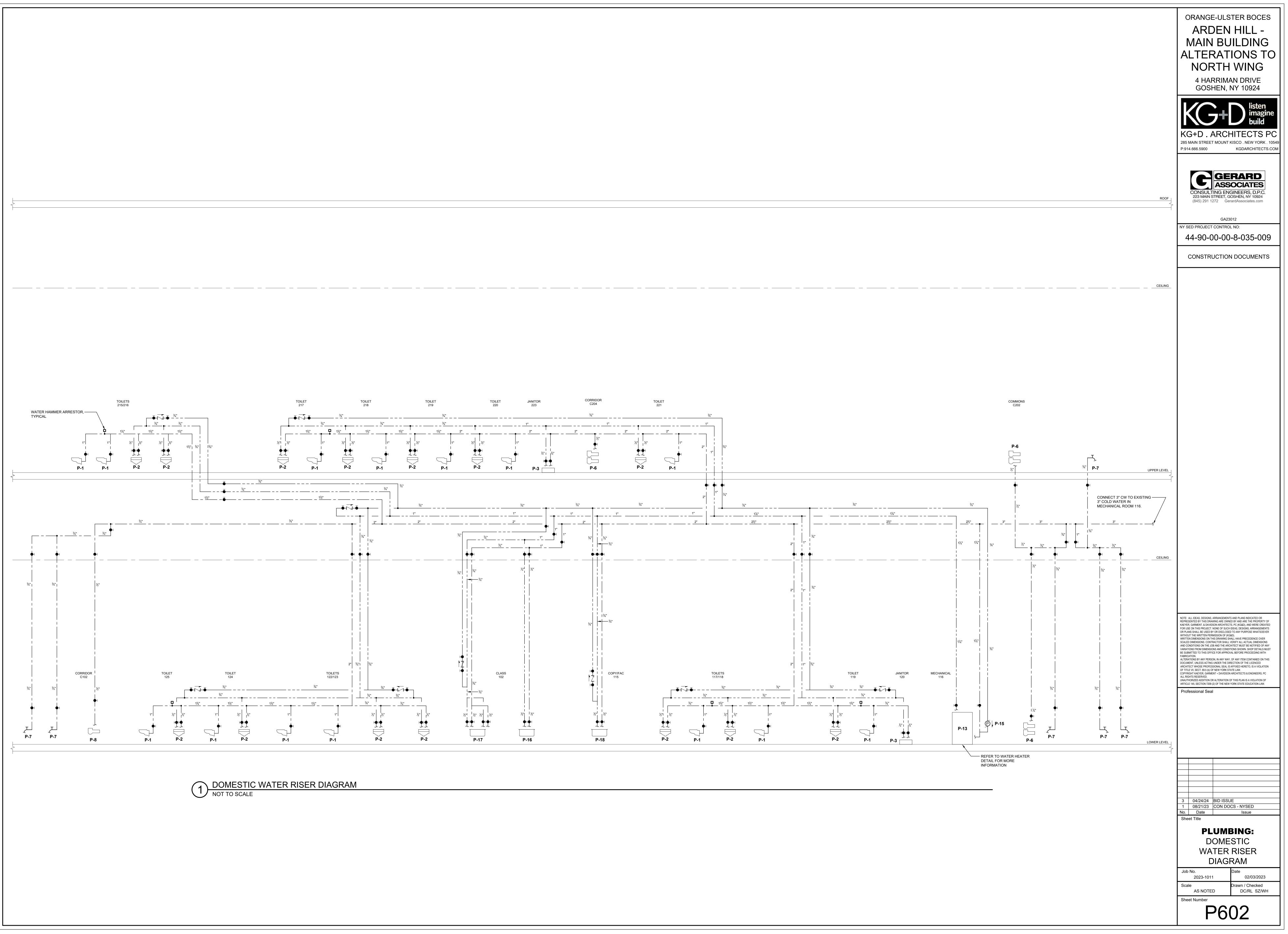


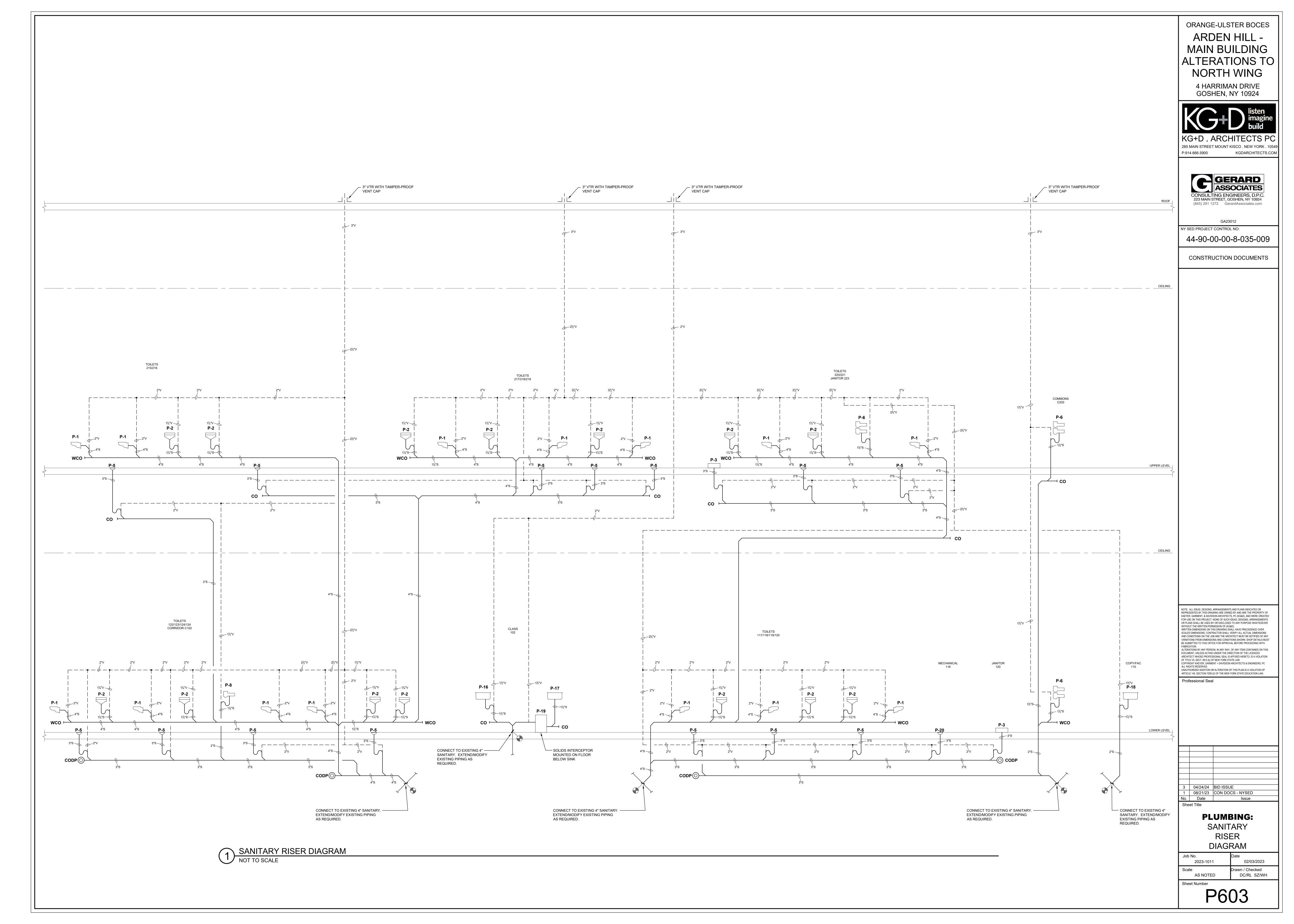


8 LINK SEAL DETAIL NOT TO SCALE









PLUMBING NOTES:

- 1. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2022 VERSION OF NYS EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS FOR SCHOOL BUILDINGS, THE 2020 VERSION OF THE PLUMBING CODE, FIRE CODE, BUILDING CODE AND ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
- 2. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, FIXTURES, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE PLUMBING SYSTEMS COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
- 3. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS. ROUGHING-IN DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR. SEE ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS AND
- ELEVATIONS OF PLUMBING FIXTURES. CONTRACTOR SHALL PARTICIPATE IN MAKING COORDINATION DRAWINGS WITH OTHER PRIME CONTRACTS. 4. ALL PIPE OPENINGS THROUGH PARTITIONS, FLOORS AND CEILINGS SHALL HAVE PIPE SLEEVES. FOR PIPE PENETRATING FIRE RATED PARTITIONS, CEILINGS AND FLOORS THE CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS WITH HILTI INTUMESCENT FIRE STOP MATERIAL BETWEEN THE PIPE AND SLEEVE TO MAINTAIN FIRE AND SMOKE RATINGS. PROVIDE FIRE STOP SEALANT ON ALL EXISTING PIPING PENETRATING NEW FIRE RATED WALLS CONSTRUCTED AS PART OF THE PROJECT.
- 5. CONTRACTOR SHALL PITCH ALL SANITARY, STORM AND OVERFLOW DRAIN PIPING UNDER 3" A MINIMUM OF ½" PER FOOT. SANITARY AND STORM PIPING 3" AND ABOVE MAY BE PITCHED A MINIMUM OF $\frac{1}{3}$ " PER FOOT. 6. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF
- ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD. 7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, PIPING, INSULATION, VALVES AND PLUMBING FIXTURES TO OWNER AND
- ARCHITECT FOR APPROVAL. DEMONSTRATE NEW PLUMBING SYSTEMS TO OWNER AND REVIEW MAINTENANCE PROCEDURES.
- 8. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED AREAS. 9. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL CONTRACTOR TO ENSURE CONCEALMENT
- OF ALL PIPING IN WALLS, FLOORS, CEILINGS AND UNDER VANITIES. 10. CONTRACTOR SHALL LOCATE ALL PIPING ON THE WARM SIDE OF BUILDING INSULATION ENVELOPE.
- 11. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) AND (120V) FOR SYSTEMS SHOWN ON PLUMBING DRAWINGS AND TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
- 12. CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- 13. CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING. ACCESS DOORS TO BE INSTALLED BY GENERAL CONTRACTOR. 14. CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT, OR STRUCTURAL ENGINEER.
- 15. CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL DOMESTIC HOT AND COLD WATER PIPING, HOT WATER RECIRCULATION PIPING, STORM AND OVERFLOW DRAIN PIPING. SEE PLUMBING INSULATION SCHEDULE ON THIS DRAWING.
- 16. ALL DOMESTIC WATER PIPING CONNECTIONS TO PLUMBING EQUIPMENT SHALL BE COPPER TYPE "L".
- 17. ALL NEW PIPES ARE TO BE SUPPORTED FROM STRUCTURE, NOT FROM EXISTING PIPING OR DUCTWORK. 18. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING (AND PROPER DISPOSAL OF ALL DRAINED WATER) AND REFILLING EXISTING SYSTEMS AS
- REQUIRED FOR COMPLETION OF WORK. 19. 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. 20. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- 21. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER AND HOT WATER SUPPLY PIPES.
- 22. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED.
- 23. A CLEANOUT SHALL BE LOCATED AT ALL CHANGES IN DIRECTION AND AT THE BASE OF EACH STACK AND LEADER.
- 24. 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.
- 25. FIXTURE (GENERAL): A. FIXTURE 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 EXUTCHEONS, CAST BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VANDALPROOF.
- B. 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 PLATED ESCUTCHEON. SWING SPOUTS SHALL HAVE 140° SWING LIMIT STOPS.
- C. SUPPORT WALL FIXTURES SECURELY ON APPROVED COMMERCIAL GRADE CARRIERS AS MANUFACTURED BY JAY R. SMITH, JOSAM, OR ZURN. 26. PIPE TESTING:
- A. UPON COMPLETION OF THE ENTIRE SANITARY DRAIN AND VENT SYSTEM AND STORM WATER AND OVERFLOW DRAIN SYSTEM, THE CONTRACTOR SHALL PERFORM AN AIR TEST WITNESSED BY AUTHORITY HAVING JURISDICTION. AIR SHALL BE FORCED INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF 5 PSI OR SUFFICIENT TO BALANCE A 10 INCH COLUMN OF MERCURY. THIS TEST SHALL BE HELD FOR A PERIOD OF AT LEAST 15 MINUTES.
- B. WATER SUPPLY SYSTEM TEST SHALL BE DONE ON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM, OR THE PORTION COMPLETED, SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM: OR, BY AN AIR TEST OF NOT LESS THAN 50 PSI. TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 15 MINUTES. THE WATER UTILIZED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.
- C. FORCE MAIN PIPING TEST SHALL CONSIST OF PLUGGING PIPE AT CONNECTION TO EXISTING SYSTEM AND APPLYING A PRESSURE OF 5 PSI GREATER THAN THE PUMP RATING AND MAINTAINING SUCH PRESSURE FOR 15 MINUTES. D. REFER TO SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
- 27. DOMESTIC WATER PIPING DISINFECTION:
- A. ALL OPEN ENDS OF PIPING, VALVES AND EQUIPMENT SHALL BE PLUGGED EXCEPT WHEN ACTUAL WORK IS BEING PERFORMED, TO MINIMIZE ACCUMULATION OF DIRT AND DEBRIS.
- B. THE CONTRACTOR SHALL DISINFECT WATER PIPING BEFORE IT IS PLACED IN SERVICE. C. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND MATERIALS NECESSARY TO DO THE WORK OF DISINFECTING, AND SHALL PERFORM
- THE WORK IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE AWWA C651 0R AWWA C652 OR AS DESCRIBED BELOW.
- D. SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND THE SYSTEM OR PART THEREOF SHALL BE ALLOWED TO STAND FOR 24 HOURS. E. DURING THE DISINFECTION PERIOD, CARE SHALL BE EXERCISED TO PREVENT CONTAMINATION OF WATER IN THE STREET MAIN OR THE ACTIVE
- WATER PIPING WITHIN THE BUILDING. F. FOLLOWING REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM
- THE SYSTEM. 28. PIPING AND EQUIPMENT IDENTIFICATION:
- A. CONTRACTOR TO PROVIDE OPTI-CODE LABELS FOR ALL NEW PIPING. LABELS SHALL INDICATE SERVICE AND FLOW DIRECTION. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABELS SHALL BE APPLIED OVER INSULATION ONLY.
- B. VALVE SERVICE IDENTIFICATION TAGS: NUMBER 19 B&S GAGE BRASS, WITH 1/4" HIGH VALVE SERVICE ABBREVIATED LETTERING ON ONE LINE OVER 1/2" HIGH VALVE SERVICE CHART NUMBER, BOTH DEEP STAMPED AND BLACK FILLED; AND WITH 3/16" TOP HOLE FOR BRASS "S" HOOK OR BRASS JACK CHAIN FASTENER.
- C. PROVIDE VALVE SERVICE IDENTIFICATION CHART MOUNTED IN LOCATION COORDINATED WITH OWNER'S REPRESENTATIVE. FRAME SHALL BE SATIN FINISHED EXTRUDED ALUMINUM WITH RIGID CLEAR PLASTIC GLAZING, SIZE TO FIT 8-1/2" x 11" VALVE CHART. D. EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO ALL NEW
- EQUIPMENT. 29. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES. 30. CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS-BUILT)
- DRAWINGS OF ALL COMPLETED WORK. 31. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH PLUMBING WORK WITH THE
- GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK. ALL FLOORS AND WALLS WHERE AN EXISTING PIPE HAS BEEN REMOVED AND NOT REPLACED SHALL BE PATCHED BY THE GENERAL CONTRACTOR, THIS CONTRACTOR SHALL COORDINATE.
- 32. ALL NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EXISTING EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO SCHOOL DISTRICT.

PIPE SIZE		IORIZONTAL G (FEET)	SINGLE S HANGER SI	TEEL ROD ZE (INCHES)	HANGER	MAXIMUM VERTICAL SPACING (FEET)		
(INCHES)	COPPER TUBE	CAST IRON	TUBING	PIPING	TYPE STEEL	COPPER TUBE	CAST IRON	
1⁄2"	6	5	1⁄4"	³ ⁄8"	BAND	10	15	
³ ⁄4"	6	5	1⁄4"	³ ⁄8"	BAND	10	15	
1"	6	5	1⁄4"	³ ⁄8"	BAND	10	15	
11⁄4"	6	5	1⁄4"	3⁄8"	CLEVIS	10	15	
11/2"	6	5	1⁄4"	3⁄8"	CLEVIS	10	15	
2"	10	5	1⁄4"	3⁄8"	CLEVIS	10	15	
2 ¹ ⁄2"	10	5	3⁄8"	1/2"	CLEVIS	10	15	
3"	10	5	3/8"	1/2"	CLEVIS	10	15	
4"	10	5	1⁄2"	⁵ ⁄8"	CLEVIS	10	15	
5"	10	5	1⁄2"	5⁄8"	CLEVIS	10	15	
6"	10	5	1⁄2"	3⁄4"	CLEVIS	10	15	
8"	10	5	5⁄8"	7⁄8"	CLEVIS	10	15	
10"	10	5	⁵ ⁄8"	7⁄8"	CLEVIS	10	15	
12"	10	5	⁵ ⁄8"	7⁄8"	CLEVIS	10	15	
FOOT 2. INSTA 3. INSTA	LENGTHS OF PI	PE ARE INSTALLI SUPPORT CLOSE HANGERS ON SL	ED. E TO THE POINT IPPORTS AT CO	F OF CHANGE	OF DIRECTIC	REASED TO 10 FEI		

	SYMBC	LS AND ABBREVIATIONS
SYMBOL	ABBREVIATION	DESCRIPTION
	DN.	DOWN
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	TYP.	TYPICAL
	V	VOLTS
	VTR	VENT THROUGH ROOF
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RETURN
	S	SANITARY
	V	VENT
		BALL VALVE
	-	MANUAL AIR VENT
-		THERMOMETER
		PRESSURE GAUGE
P		UNION
	CODP	CLEANOUT DECK PLATE
	EX.	EXISTING TO REMAIN
	DEM.	EXISTING TO REMAIN EXISTING TO BE REMOVED
	NEW	NEW WORK
	-	ELBOW UP
٥ <u>ــــــــــــــــــــــــــــــــــــ</u>		ELBOW DOWN
	-	
	-	
	-	
	-	TRAP
	FD	
	-	
-	MC	
-	OD	
- -	FM	
	RD	
	PRV	
-	°F	
-	IN	INCHES
-	PSI	POUNDS PER SQUARE INCH
-	Н	HEIGHT
-		WIDTH
-	L	LENGTH
Ø	DIA / PH	DIAMETER / PHASE
]	-	PIPE CAP
-	MIN	MINIMUM
-	MAX	MAXIMUM
-	FT ²	SQUARE FEET
—	со	CLEAN OUT
—	WCO	WALL CLEAN OUT
— SD —	SD	STORM DRAIN
, ⊥	-	HOSE-BIBB
+	-	WALL HYDRANT
-	PC	PLUMBING CONTRACTOR
-	HZ	HERTZ
-	V	VOLTS
-	FT	FEET
-	HP	HORSEPOWER
-	FLA	FULL LOAD AMPS

WATTS WATER HAMMER ARRESTORS					
NO. 15 SIZE	FIXTURE UNITS	CROSS REF. PDI STANDARD			
1/2" M1	1-11	А			
3/4" M1	12-32	В			
1" M1	33-60	С			
1-1/4" M1	61-113	D			
1-1/2" M1	114-154	E			
2" M1	155-330	F			

	PLUMBING EQUIPMENT SCHEDULE									
	SYMBOLS PLUMBING CONNECTIONS									
TAG	PLAN	ELEVATION	SAN./STORM	VENT	COLD	НОТ	GAS	MANUFACTURER	CATALOG #	DESCRIPTION
P-1		\square	4"	2"	1"	-	_	KOHLER	K-4325	WALL-MOUNTED, VITREOUS CHINA, ELONGATED BOWL, FLUSHOMETER TOILET WITH CONCEALED TRAPWAY, DIRECT-FED SIPHON JET ACTION, AND 1-1/2" TOP SPUD. FIXTURE COLOR SHALL BE WHITE. PROVIDE COMMERCIAL HEAVY DUTY PLASTIC TOILET SEAT, BEMIS MODEL 1955CT AND COMMERCIAL GRADE FLOOR MOUNTED VERTICAL ADJUSTABLE CLOSET CARRIERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
		U.						ZURN	ZER6000AV-TM -WS1-DF	EXPOSED, BATTERY POWERED, GEAR DRIVEN, ELECTRONIC SENSOR OPERATED WATER CLOSET FLUSHOMETER WITH: MANUAL OVERRIDE BUTTON, CONTROL STOP WITH VANDAL-RESISTANT CAP AND VACUUM BREAKER. DUAL FLUSH, LOW CONSUMPTION, 1.6/1.1 GALLONS PER FLUSH. ADA COMPLIANT.
P-2			1½"	1½"	Ľ"	½"	_	KOHLER	K-1728	19¼"(L)x17¼"(W) WALL-HUNG, VITREOUS CHINA, D-SHAPED BOWL LAVATORY WITH FRONT OVERFLOW, CONCEALED ARM SUPPORTS, FAUCET LEDGE, AND SELF-DRAINING DECK AREA. FIXTURE COLOR SHALL BE WHITE. PROVIDE: COMMERCIAL GRADE, FLOOR MOUNTED CONCEALED ARM SUPPORTS; OFFSET LAVATORY GRID STRAINER (MCGUIRE MANUFACTURING PART NUMBER 155WC); AND TRUEBRO MODEL 103 E-Z LAV GUARD. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. LAVATORY SHALL BE ADA COMPLIANT.
								ZURN	Z6915-XL-TMV1-N	ADA COMPLIANT, LOW-LEAD COMPLIANT, BATTERY POWERED, CHROME PLATED CAST BRASS BODY, SENSOR FAUCET WITH: INFRARED PROXIMITY SENSOR, THIRTY SECOND TIME OUT FEATURE, IN LINE FILTER, (4) "AA" BATTERIES, 0.5 GPM VANDAL-RESISTANT LAMINAR FLOW, AND THERMOSTATIC MIXING VALVE.
P-3			3"	1½"	×"	½"		ACORN	TNC-24	PRECAST MOP SINK, ONE PIECE TERRAZZO COMPOSED OF MARBEL CHIPS IN PORTLAND CEMENT. MOP SINK SHALL BE 24"X 24" NEO-CORNER STYLE WITH 12" STANDARD HEIGHT FRONT SHOULDER. INTEGRAL DRAIN WITH A REMOVABLE STAINLESS STEEL GRID STRAINER FOR INSIDE CAULK CONNECTION TO 3" PIPE. PROVIDE STAINLESS STEEL CAPS ON ALL SHOULDERS, 36" HOSE WITH WALL HANGER, AND MOP HANGER.
								SPEAKMAN	SEF-9000-TW	FAUCET WITH EYEWASH/DRENCH HOSE. UNIT SHALL BE COMPLETE WITH SPEAKMAN SC-5811-RCP SERVICE SINK FAUCET CONNECTED TO EYEWASH. EYEWASH SHALL BE ACTIVATED BY SQUEEZE VALVE AND INCLUDE (2) YELLOW PLASTIC SPRAY HEADS WITH FLIP TOP DUST CAPS, INTEGRAL VACUUM BREAKER AND CHECK VALVE. PROVIDE SE-370 THERMOSTATIC MIXING VALVE. SERVICE SINK FAUCET SHALL HAVE VANDAL RESISTANT FOUR-ARM HANDLES, CAST BRASS NOZZLE WITH ³ / ₄ " HOSE THREAD, PAIL HOOK AND TOP BRACE OUTLET, AND INTEGRAL VACUUM BREAKER.
P-4	+	$ \qquad \qquad$	-	-	3⁄4"	-	-	WOODFORD	24	CHROME, ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL FAUCET WITH $\frac{3}{4}$ " MALE HOSE THREAD, POLYCARBONATE WHEEL HANDLE AND LOOSE TEE KEY, AND $\frac{3}{4}$ " INLET.
P-5		\bigtriangledown	3"	1½"	-	-	-	WATTS	FD-100-M	VANDAL-PROOF, EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE SQUARE HEEL-PROOF NICKEL BRONZE STRAINER, AND 3" NO HUB OUTLET. FLOOR DRAIN SHALL BE COMPLETE WITH 6"x6" STRAINER. PROVIDE SURESEAL MODEL SS3009V WATERLESS INLINE 3" DRAIN TRAP SEAL.
P-6			1½"	1½"	¥2"	-	-	ELKAY	LZSTL8WSVRLK	BOTTLE FILLING STATION AND BI-LEVEL ADA VANDAL-RESISTANT COOLER, FILTERED, REFRIGERATED, AND LIGHT GRAY. FIXTURE FEATURES: ANTIMICROBIAL, FILTERED, GREEN TICKER, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, VANDAL RESISTANT BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. WALL MOUNTED. CHILLING CAPACITY OF 8 GALLONS PER HOUR OF 50°F DRINKING WATER AT 90°F AMBIENT. ELECTRICAL: 115V/60Hz., 6.0 FULL LOAD AMPS, 370 WATTS. ADA COMPLIANT, NSF 61 CERTIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND COOLER CONFIGURATION. PROVIDE COMMERCIAL GRADE, IN-WALL, FLOOR MOUNTED FIXTURE SUPPORT AND (2) SPARE FILTERS.
P-7		, L L	-	-	3⁄4"	-	-	ZURN	Z1320XL	ENCASED, LEAD FREE, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER FOR FLUSH INSTALLATION WITH 3/4" MALE HOSE CONNECTION, TYPE 304 STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER, OPERATING KEY AND WALL CLAMP.
P-8			1½"	1½"	¥2"	-	-	ELKAY	LZS8WSLK	BOTTLE FILLING STATION WITH SINGLE ADA VANDAL-RESISTANT COOLER, FILTERED, REFRIGERATED, AND LIGHT GRAY. FIXTURE FEATURES: ANTIMICROBIAL, FILTERED, GREEN TICKER, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, VANDAL RESISTANT BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. WALL MOUNTED. CHILLING CAPACITY OF 8 GALLONS PER HOUR OF 50°F DRINKING WATER AT 90°F AMBIENT. ELECTRICAL: 115V/60Hz., 6.0 FULL LOAD AMPS, 370 WATTS. ADA COMPLIANT, NSF 61 CERTIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PROVIDE COMMERCIAL GRADE, IN-WALL, FLOOR MOUNTED FIXTURE SUPPORT AND (2) SPARE FILTERS.
P-9		\Box	REFER TO PLAN	-	-	-	-	JAY R. SMITH	1011Y	ROOF DRAIN FOR IRMA ROOF APPLICATIONS. DUCO CAST IRON BODY WITH FLASHING CLAMP; 1/16", 4" HIGH STAINLESS STEEL PERFORATED GRAVEL STOP WITH 3/8" DIAMETER OPENINGS; AND NO-HUB OUTLET. ROOF DRAIN SHALL BE COMPLETE WITH SUMP RECEIVER, UNDERDECK CLAMP, VANDAL-PROOF CAST IRON DOME, AND CAST IRON CLAMPING RINGS. ROOF DRAIN IS TO BE PROVIDED AND SET BY THE PLUMBING CONTRACTOR.
P-10		\bigtriangledown	REFER TO PLAN	-	-	-	-	JAY R. SMITH	1775A	SPECIAL PURPOSE DOWNSPOUT COVER. FABRICATED TYPE 304 STAINLESS STEEL DOWNSPOUTS WITH HINGED PERFORATED COVER. DOWNSPOUT COVER IS TO BE PROVIDED AND SET BY THE PLUMBING CONTRACTOR.
P-11			REFER TO PLAN	-	-	-	-	JAY R. SMITH	1011Y	ROOF DRAIN FOR IRMA ROOF APPLICATIONS. DUCO CAST IRON BODY WITH FLASHING CLAMP; 1/16", 4" HIGH STAINLESS STEEL PERFORATED GRAVEL STOP WITH 3/8" DIAMETER OPENINGS; AND NO-HUB OUTLET. ROOF DRAIN SHALL BE COMPLETE WITH SUMP RECEIVER, UNDERDECK CLAMP, VANDAL-PROOF CAST IRON DOME, WATER DAM COLLAR AND CAST IRON CLAMPING RINGS. ROOF DRAIN IS TO BE PROVIDED AND SET BY THE PLUMBING CONTRACTOR.
P-12	-	-	2"	-	-	-	-	STANCOR	SE-50	OIL-MINDER SIMPLEX PUMP AND CONTROL SYSTEM. NEMA 4X CORROSION RESISTANT POLYCARBONATE ENCLOSURE, STAINLESS STEEL SENSOR PROBE, DIRECT PLUG-IN POWER SOURCE, SOLID STATE COMPONENTS, ALARMS, LIGHTS, SILENCE SWITCH, REMOTE MONITORING CIRCUIT FOR OIL, HIGH LIQUID AND HIGH AMPERAGE CONDITIONS. FACTORY ASSEMBLED AND TESTED. 74 GPM @ 37 FT HEAD 1/2 HP - 120V/1. CONTROL PANEL SHALL HAVE AUXILIARY CONTACTS TO TIE HIGH LIQUID LEVEL ALARM TO BUILDING MANAGEMENT SYSTEM.
P-13			-	-	11⁄4"	1½"	-	AO SMITH	DVE-80A	ASME RATED, COMMERCIAL ELECTRIC WATER HEATER. HEATER SHALL BE RATED AT 18KW, 208 VOLTS, 3 PHASE, 60HZ, 50 FLA. TANK SHALL HAVE 80 GALLON CAPACITY AND 92 GPH RECOVERY AT 80°F TEMPERATURE RISE. HEATER SHALL HAVE 160 PSI WORKING PRESSURE AND BE EQUIPPED WITH TWO ANODE ROD. ALL INTERNAL SURFACES EXPOSED TO WATER SHALL BE GLASS LINED. HEATING ELEMENTS SHALL BE MEDIUM WATT DENSITY WITH ZINC PLATED COPPER SHEATH AND BE CONTROLLED BY INDIVIDUAL THERMOSTATS AND HIGH TEMPERATURE CUTOFF OUTER JACKET SHALL HAVE BAKED ENAMEL FINISH AND SHALL ENCLOSE THE TANK WITH FOAM INSULATION. HEATERS SHALL BE COMPLETE WITH: ELECTRICAL JUNCTION BOX WITH HEAVY TERMINAL BLOCK, NEMA 1 DISCONNECT SWITCH, DRAIN VALVE AND ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE
P-14	\bigcirc		-	-	-	3⁄4"	-	AMTROL	ST-12C-DD	EXPANSION TANK WITH TANK VOLUME OF 6.4 GALLONS AND AN ACCEPTANCE VOLUME OF 3.2 GALLONS. TANK SHALL BE ANSI/NSF 61 FOR POTABLE WATER USE AND SHALL BE ASME RATED. MAXIMUM OPERATING TEMPERATURE 200°F AND MAXIMUM WORKING PRESSURE 150 PSI.
P-15	Ø	P	-	-	-	3⁄4"	-	TACO	003-B4	LOW-LEAD COMPLIANT, NSF 61, BRONZE, SELF-LUBRICATING, HOT WATER RECIRCULATION PUMP. FLOW RANGE: 0-7 GPM. HEAD RANGE: 0-4.5 FEET. PUMP MAXIMUM WORKING PRESSURE 125 PSI AND MAXIMUM OPERATING TEMPERATURE 220°F. PROVIDE TACO 563-2 TEMPERATURE AQUASTAT. PROVIDE DISCONNECT SWITCH. ELECTRICAL: 120V/1Ø/60Hz., 0.43 AMPS, 3250 RPM, AND 1/40 HP.
P-16			1½"	1½"	¥2"	¥2"	_	ELKAY	ELV2219SACC	ADA COMPLIANT, 18-GAUGE, TYPE 304 STAINLESS STEEL, SINGLE BOWL, WALL HUNG LAVATORY SINK KIT. OVERALL SINK DIMENSIONS: 22"x19"x19-1/8". BOWL DIMENSIONS: 16"x11-1/2"x5-1/2". SINK SHALL HAVE REAR CENTER DRAIN, 3-3/8" DRAIN SIZE, BOTTOM SOUND DEADENING PADS, AND BUFFED SATIN FINISH. SINK KIT SHALL BE PROVIDED WITH ELKAY MODEL LKB721C FAUCET. PROVIDE ELKAY MODEL LKAD174 ADA COMPLIANT, CHROME PLATED BRASS, PERFORATED GRID STRAINER AND TRUEBRO MODEL 103 EZ LAV GUARD.
								ELKAY	LKB721C	ADA COMPLIANT, DECK MOUNTED, SCRUB/HANDWASH, BATTERY POWERED, ELECTRONIC SENSOR FAUCET. SOLID BRASS CONSTRUCTION WITH ELECTRONIC CONTROL MODULE VALVE. 1.5 GPM FLOW RATE. 11-5/8" HIGH GOOSENECK SPOUT WITH 5-5/8" REACH. FAUCET FINISH SHALL BE CHROME PLATED. FAUCET SHALL BE NSF 61 AND NSF 372 (LEAD FREE) COMPLIANT.
P-17			1½"	1½"	¥2"	¥2"	_	ELKAY	EWMA4820C	14-GAUGE, TYPE 304 STAINLESS STEEL, SINGLE BOWL, WALL HUNG MULTIPLE STATION HAND WASH SINK KIT. OVERALL SINK DIMENSIONS: 48"x20"x18". BOWL DIMENSIONS: 45"x16-1/2"x8". SINK SHALL HAVE CENTER DRAIN, 3-3/8" DRAIN SIZE AND BUFFED SATIN FINISH. SINK KIT SHALL BE PROVIDED WITH: (1) ELKAY MODEL LK18B STAINLESS STEEL GRID STRAINER AND TAILPIECE AND (2) ELKAY MODEL LK940GN05T4H FAUCETS.
								ELKAY	LK940GN05T4H	ADA COMPLIANT, WALL MOUNTED, SCRUB/HANDWASH, 8" CENTERSET FAUCET WITH 4" WRIST BLADE HANDLES. SOLID BRASS CONSTRUCTION WITH QUARTER TURN CERAMIC DISC VALVE. 1.5 GPM FLOW RATE. 11" HIGH GOOSENECK SPOUT WITH 5" REACH. FAUCET FINISH SHALL BE CHROME PLATED. FAUCET SHALL BE NSF 61 AND NSF 372 (LEAD FREE) COMPLIANT.
P-18			1½"	1½"	1/2"	1/2"	-	ELKAY	ELUHAD131650PD	ADA COMPLIANT, 18-GAUGE, TYPE 304 STAINLESS STEEL, SINGLE BOWL, UNDERMOUNT ADA SINK. OVERALL SINK DIMENSIONS: 16"x18-1/2"x6-3/8". BOWL DIMENSIONS: 13-1/2"x16"x4-7/8". SINK SHALL HAVE REAR CENTER DRAIN, BOTTOM ONLY SOUND DEADENING PADS, 3-3/8" DRAIN SIZE AND LUSTROUS SATIN FINISH. SINK SHALL BE PROVIDED WITH: UNDERMOUNT BRACKETS AND ELKAY MODEL LKPDVR18B CHROME PLATED BRASS BODY VANDAL RESISTANT GRID STRAINER. PROVIDE TRUEBRO MODEL 103 EZ LAV GUARD IN ADA LOCATIONS.
								ELKAY	LKAV3021	ADA COMPLIANT, DECK MOUNTED, SINGLE HOLE BAR FAUCET WITH LEVER HANDLE. SOLID BRASS CONSTRUCTION WITH CERAMIC DISC VALVE. 1.8 GPM FLOW RATE. 360° GOOSENECK SPOUT WITH STANDARD SPRAY. FAUCET FINISH SHALL BE SELECTED BY ARCHITECT. FAUCET SHALL BE NSF 61 AND NSF 372 (LEAD FREE) COMPLIANT.
P-19	\bigcirc		1½"	-	-	-	-	JAY R. SMITH	8710T	ON FLOOR, SOLIDS INTERCEPTOR. WHITE DUCO COATED CAST IRON BODY, ALUMINUM GASKETED COVER WITH LOCKING DEVICE, SEDIMENT STRAINER WITH REMOVABLE STAINLESS STEEL SCREEN.
P-20		\bigtriangledown	3"	11⁄2"	-	-	-	WATTS	FD-100-M	VANDAL-PROOF, EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE SQUARE HEEL-PROOF NICKEL BRONZE STRAINER, AND 3" NO HUB OUTLET. FLOOR DRAIN SHALL BE COMPLETE WITH 6"x6" STRAINER AND SEDIMENT BUCKET. PROVIDE SURESEAL MODEL SS3009V WATERLESS INLINE 3" DRAIN TRAP SEAL.

PLUMBING PIPING FITTIN

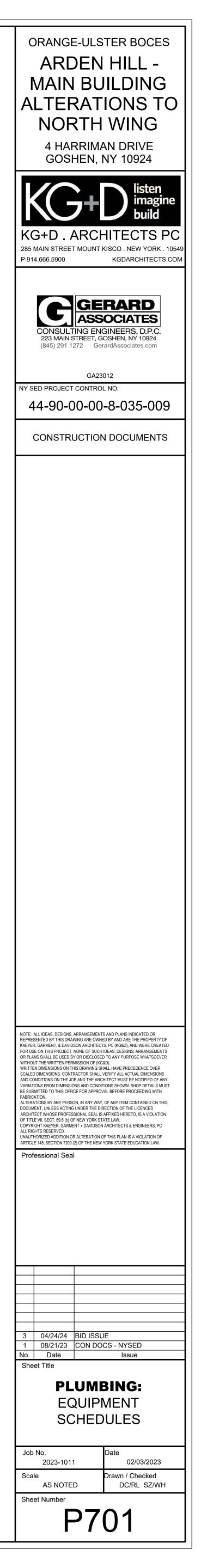
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD
WATER PIPE AND FORCE MAIN PIPING (ABOVE GROUND)	ALL	COPPER	LEAD-FREE SOLDER ASTM B828	ASTM B 16.22
SANITARY, VENT, AND STORM (ABOVE GROUND)	ALL	SERVICE WEIGHT CAST IRON	NO-HUB ASTM C1277 ASTM C564	ASTM A 74
SANITARY, VENT, AND STORM (BELOW GROUND)	ALL	EXTRA-HEAVY CAST IRON	HUB AND SPIGOT ASTM C564	ASTM A 74

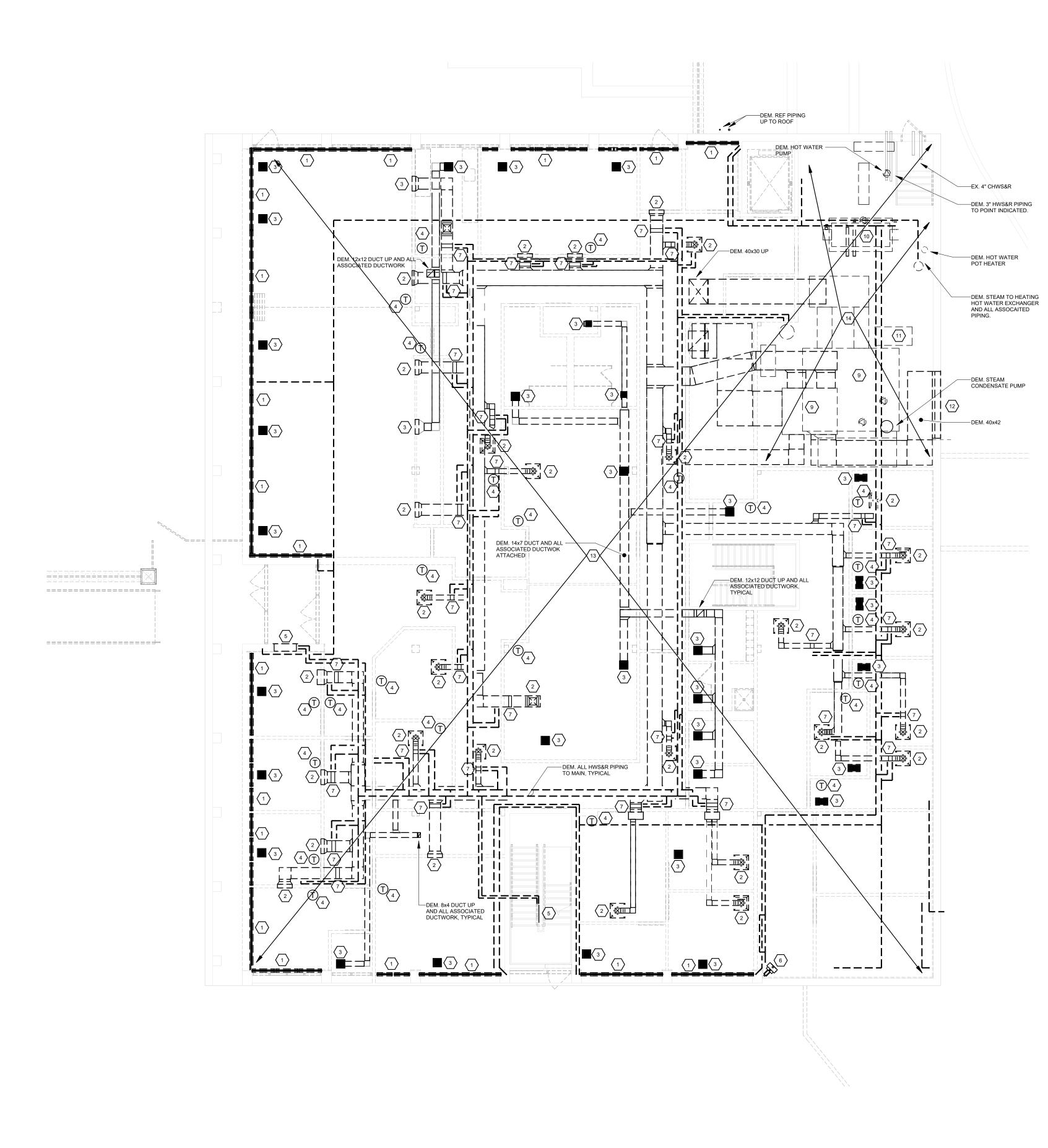
PLUMBING PIPING MATERIAL SCHEDULE

SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD
WATER PIPE AND FORCE MAIN PIPING (ABOVE GROUND)	ALL	COPPER	TYPE L TUBE	ASTM B 88
SANITARY, VENT & STORM (ABOVE GROUND)	ALL	CAST IRON	SERVICE WEIGHT	ASTM A 74
SANITARY, VENT, AND STORM (BELOW GROUND)	ALL	CAST IRON	EXTRA-HEAVY WEIGHT	ASTM A 74
-				

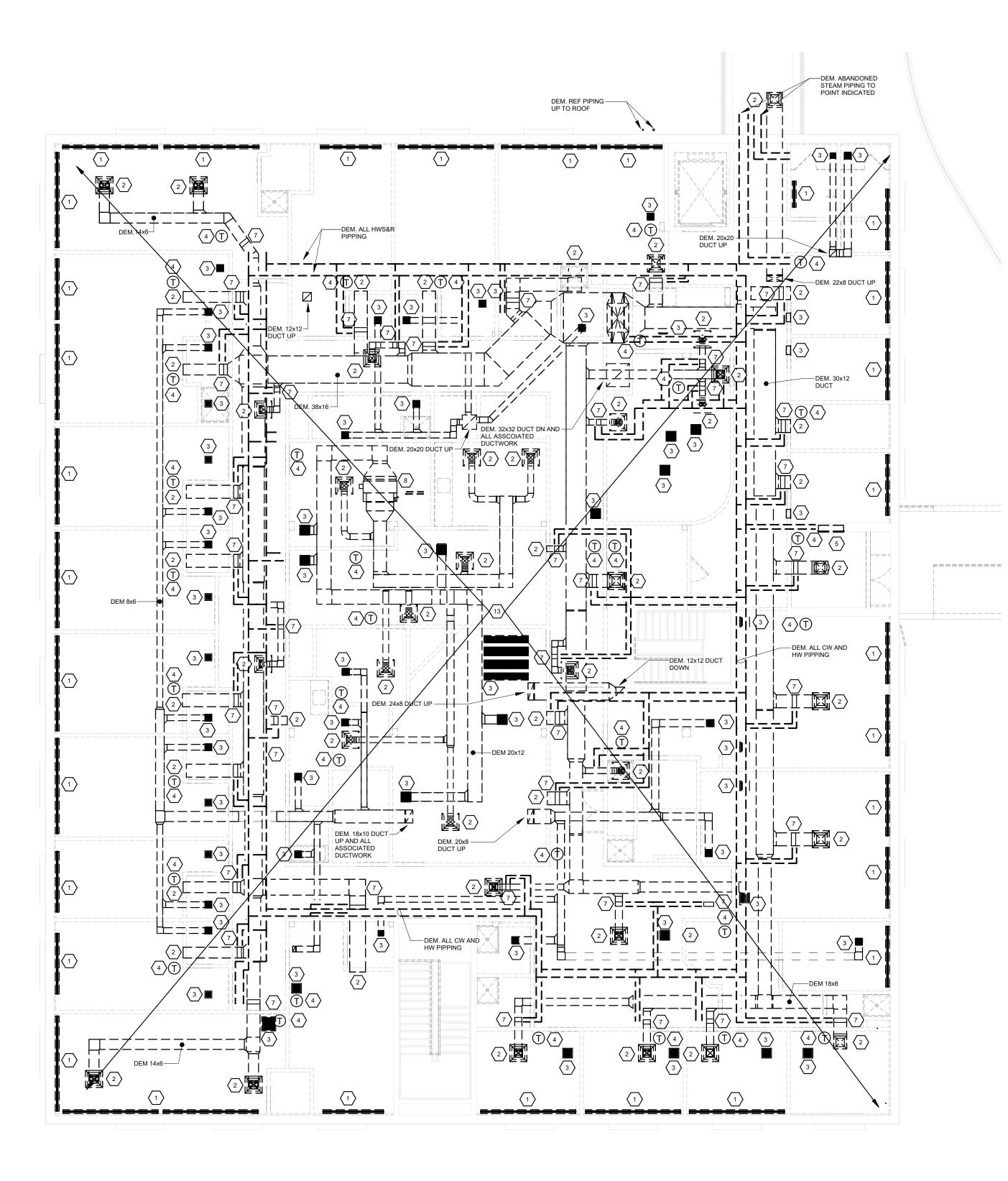
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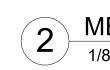
PLUMBING PIPE INSULATION SCHEDULE					
	INSULATION THIC	INSULATION THICKNESS (INCHES)			
SERVICE	PIPE SIZE (INCHES)				
	BELOW 11/2"	$1\frac{1}{2}$ " AND OVER			
COLD WATER	1/2"	1"			
HOT WATER	1"	1½"			
HOT WATER RECIRCULATION	1"	1½"			
HORIZONTAL STORM PIPING	1"	1"			
HORIZONTAL OVERFLOW DRAIN PIPING 1" 1"					
NOTES:					
 PIPE COVERING SHALL BE FIBERGLASS PIPE INSULATION WITH: FIRE RETARDANT VAPOR BARRIER JACKET, 0.23 K-FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = 25, SMOKE DEVELOPED = 50. 					
 DEVELOPED - 50. FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH PVC JACKETING EQUAL IN THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION. ALL EXISTING HORIZONTAL STORM DRAIN PIPING SHALL BE INSULATED AS PART OF THIS PROJECT. PLUMBING CONTRACTOR TO COORDINATE IN FIELD. 					





1 MECHANICAL - NORTH WING LOWER LEVEL DEMOLITION PLAN 1/8" = 1'-0"

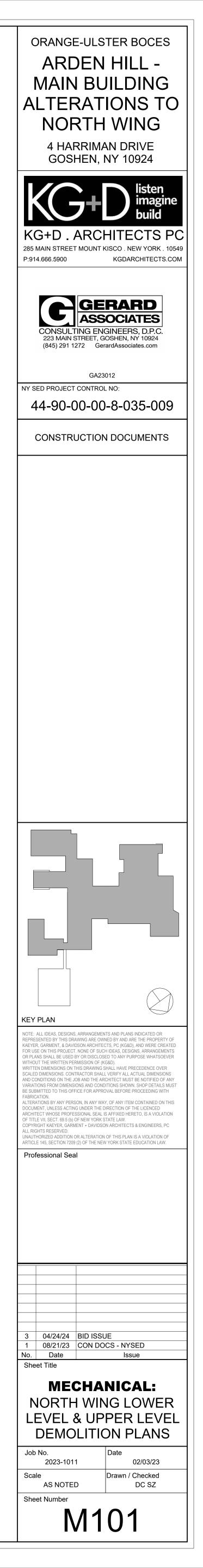




MECHANICAL - NORTH WING UPPER LEVEL DEMOLITION PLAN 1/8" = 1'-0"

	MECHANICAL PLAN DEMOLITION KEYED NOTES
#	NOTE TEXT
1	DEMOLISH FINNED TUBE RADIATION AND ALL ASSOCIATED PIPING, CONTROLS, SUPPORTS, AND ETC.
2	DEMOLISH CEILING DIFFUSER/SUPPLY REGISTER AND ALL ASSOCIATED DUCTWORK COMPLETE.
3	DEMOLISH EXHAUST/RETURN REGISTER AND ALL ASSOCIATED DUCTWORK COMPLETE.
4	DEMOLISH THERMOSTAT AND ALL ASSOCIATED TUBING, WIRING, CONDUIT, AND ETC. COMPLETE.
5	DEMOLISH CABINET UNIT HEATER AND ALL ASSOCIATED HOT WATER PIPING, CONTROLS AND ETC. COMPLETE.
6	DEMOLISH UNIT HEATER AND ALL ASSOCIATED HOT WATER PIPING, CONTROLS AND ETC. COMPLETE.
7	DEMOLISH DUCT MOUNTED HOT WATER COIL AND ALL ASSOCIATED HOT WATER PIPING, CONTROLS AND ETC. COMPLETE.
8	DEMOLISH FAN COIL UNIT AND ALL ASSOCIATED REFRIGERANT PIPING ,DUCTWORK AND CONTROLS AND ETC. COMPLETE.
9	DEMOLISH AIR HANDLER AND ASSOCIATED SUPPORTS. DEMOLISH ALL ASSOCIATED PIPING COMPLETE. DEMOLISH SUPPLY, RETURN AND OUTSIDE AIR INTAKE DUCTWORK COMPLETE.
10	DEMOLISH CHILLER AND ALL ASSOCIATED PIPING, CONTROLS, SUPPORTS AND ETC. COMPLETE.
11	DEMOLISH EXPANSION TANK AND ALL ASSOCIATED PIPING, CONTROLS, SUPPORTS AND ETC. COMPLETE.
12	DEMOLISH LOUVER AND ALL ASSOCIATED DUCTWORK. COORDINATE WALL PATCHING WITH GENERAL CONTRACTOR.
13	DEMOLISH ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK COMPLETE. DEMOLISH ALL HOT WATER SUPPLY AND RETURN PIPING TO POINT INDICATED.
14	UNLESS OTHERWISE NOTED, DEMOLISH ALL EQUIPMENT, PIPING, DUCTWORK, SUPPORTS, CONCRETE PADS, CONTROLS, ETC. COMPLETE IN MECHANICAL ROOM.

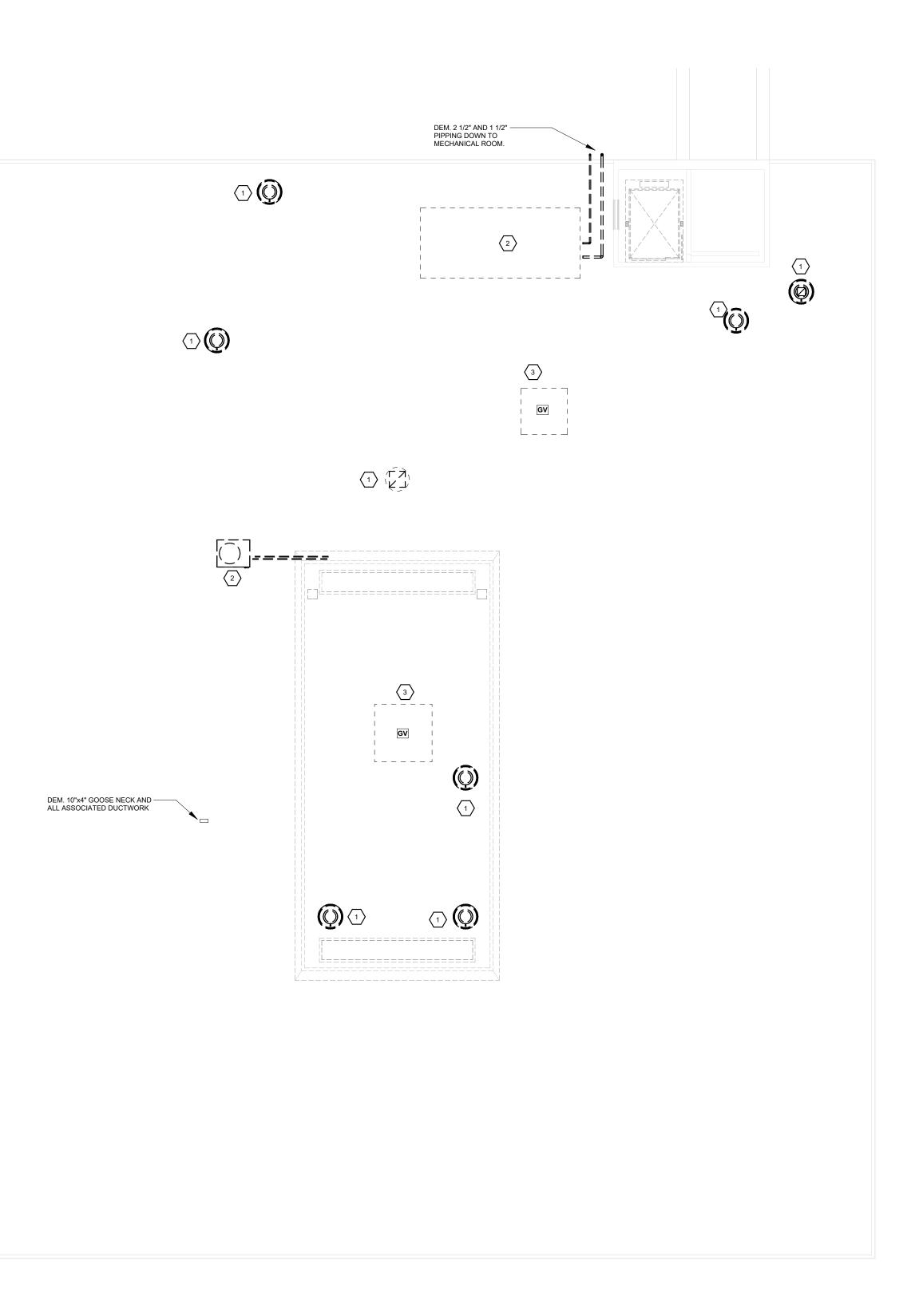
NOTES: 1. ALL INTERIOR AND EXTERIOR DEMOLITION WORK TO BE PERFORMED BY ABATEMENT CONTRACTOR, REFER TO BID DOCUMENTS FOR MORE INFORMATION.



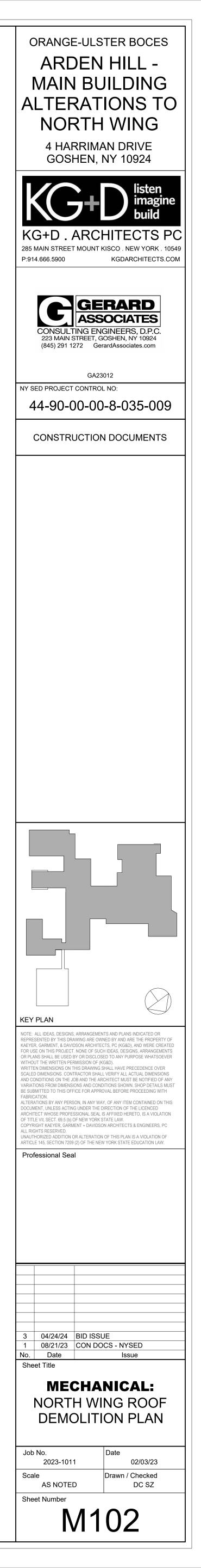
MECHANICAL ROOF PLAN DEMOLITION KEYED NOTES # NOTE TEXT 1 DEMOLISH EXHAUST FAN, ROOF CURB, AND ALL ASSOCIATED DUCTWORK, AND CONTROLS. COMPLETE. DEMOLISH AIR COOLED CONDENSING UNIT AND ALL CONTROLS, CONDUIT, WIRING, REFRIGERANT PIPING AND ETC. 2 COMPLETE. 3 DEMOLISH GRAVITY VENT, ROOF CURB, AND ALL ASSOCIATED DUCTWORK. COMPLETE.

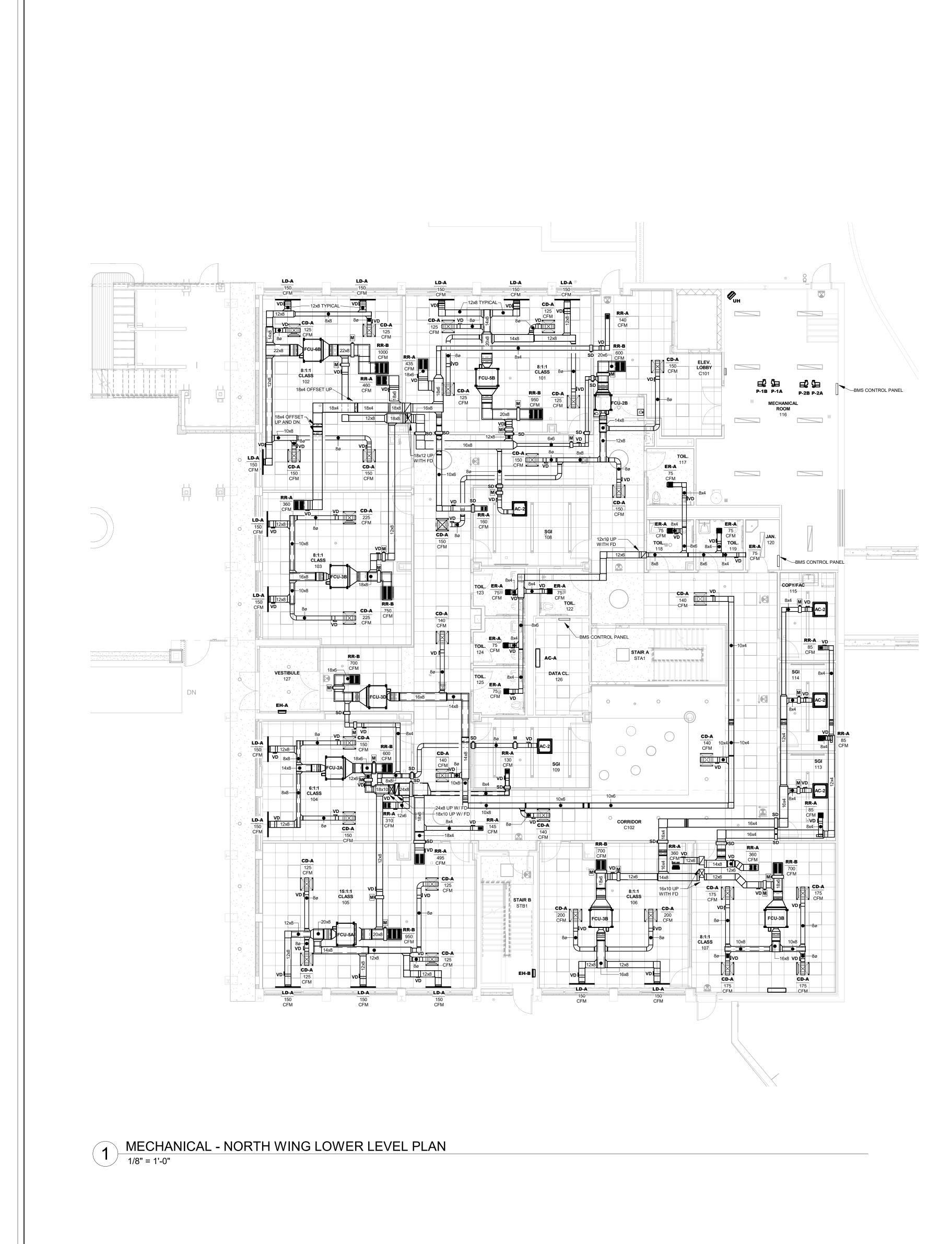
NOTES: 1. ALL INTERIOR AND EXTERIOR DEMOLITION WORK TO BE PERFORMED BY ABATEMENT CONTRACTOR, REFER TO BID DOCUMENTS FOR MORE INFORMATION.

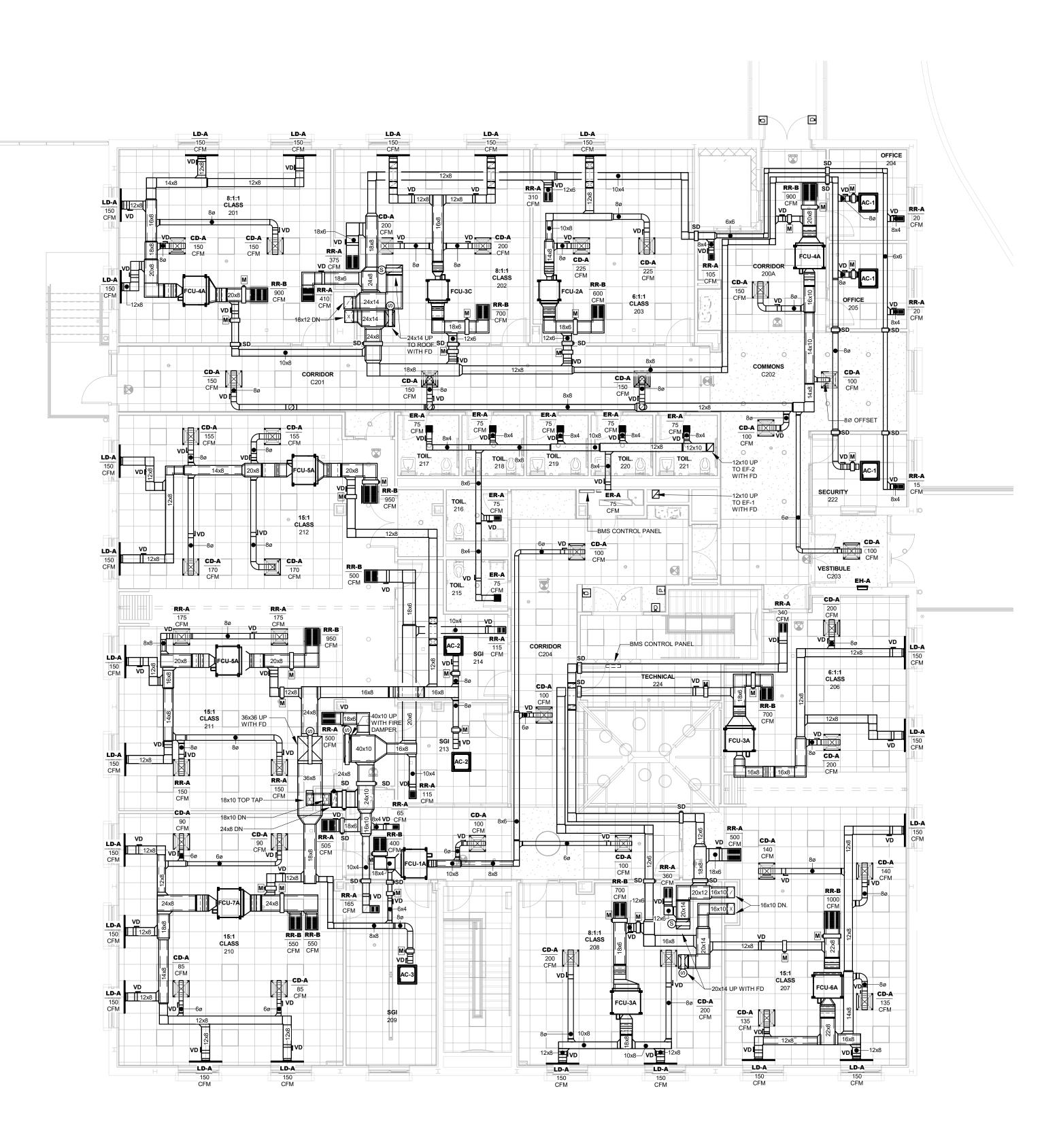




1 MECHANICAL - NORTH WING ROOF DEMOLITION PLAN 1/8" = 1'-0"



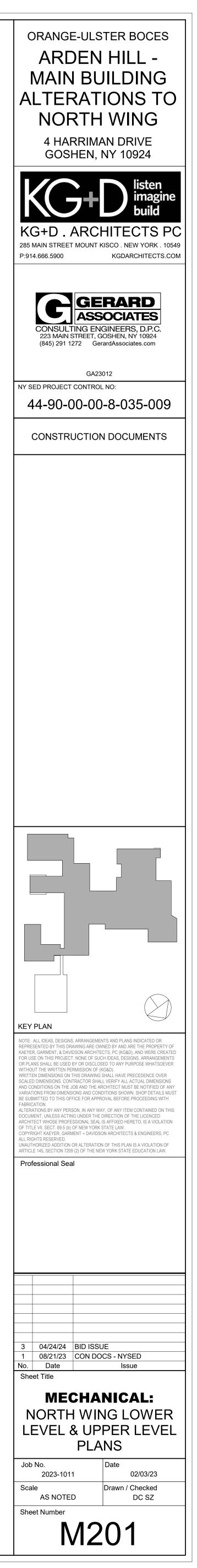


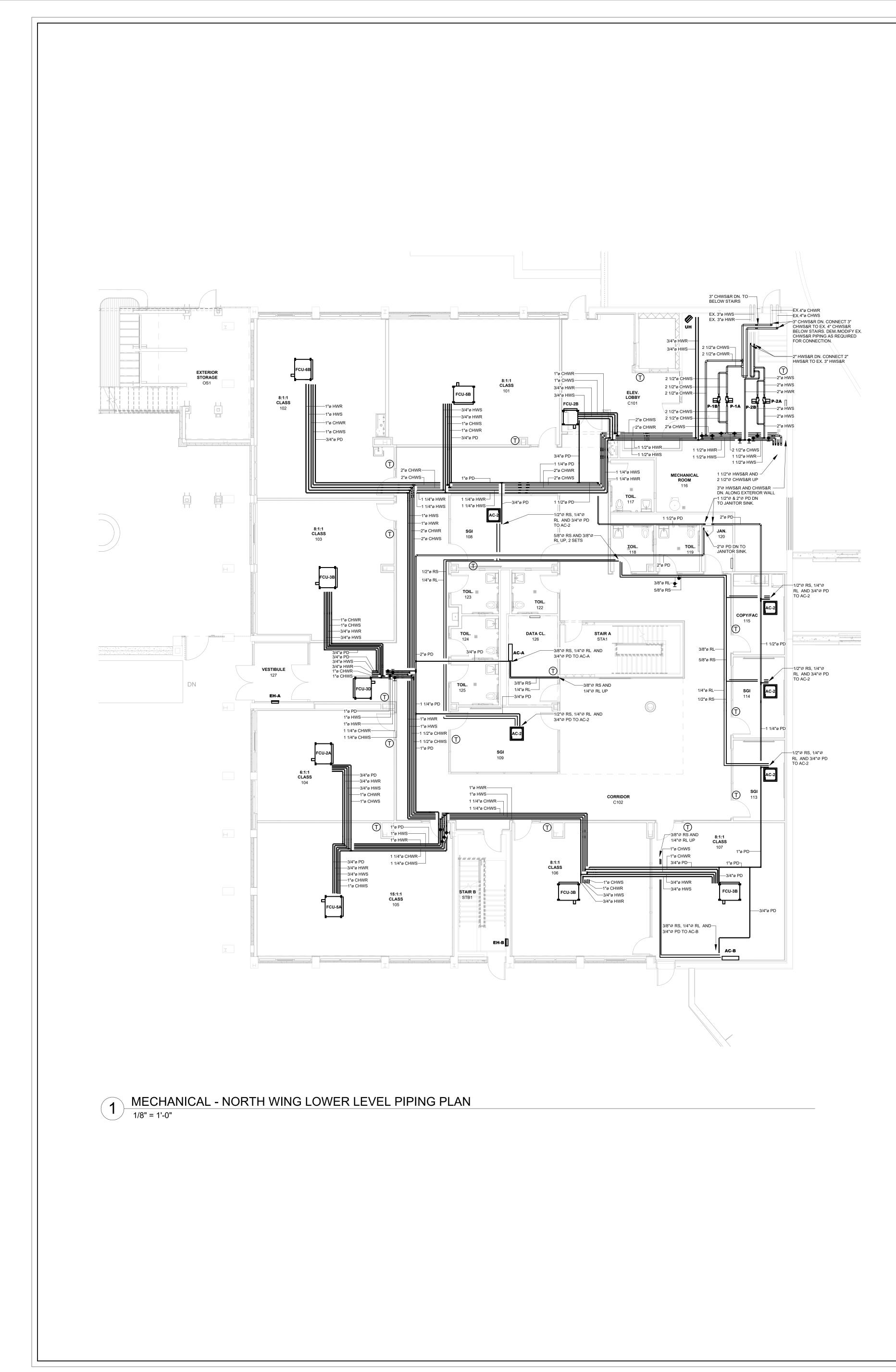




2 MECHANICAL - NORTH WING UPPER LEVEL PLAN 1/8" = 1'-0"

NOTES: 1. ALL WORK ASSOCIATED WITH AUTOMATIC TEMPERATURE CONTROLS SHALL BE PERFORMED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR DIRECT TO THE SCHOOL DISTRICT. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUPPLY AND TURNOVER CONTROLS ELEMENTS REQUIRED TO BE INSTALLED IN PIPING AND/OR DUCTWORK TO THE MECHANICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROL ELEMENTS. MECHANICAL CONTRACTOR SHALL COORDINATE. 2. FAN COIL UNITS SHALL BE INSTALLED UP IN BETWEEN STRUCTURAL STEEL AS REQUIRED TO MAINTAIN CEILING HEIGHT.

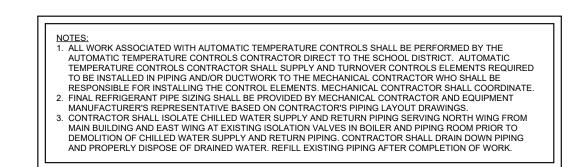


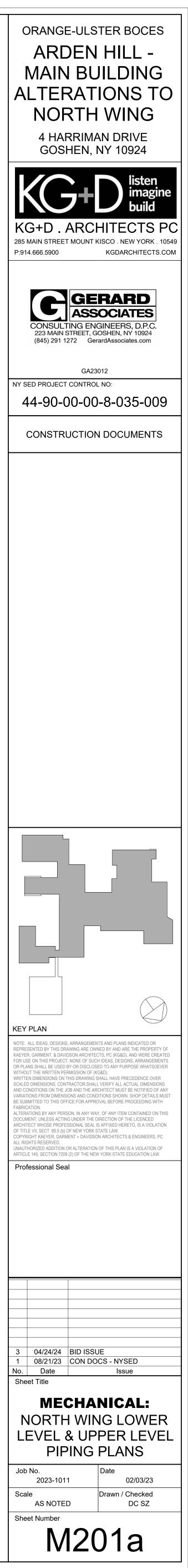


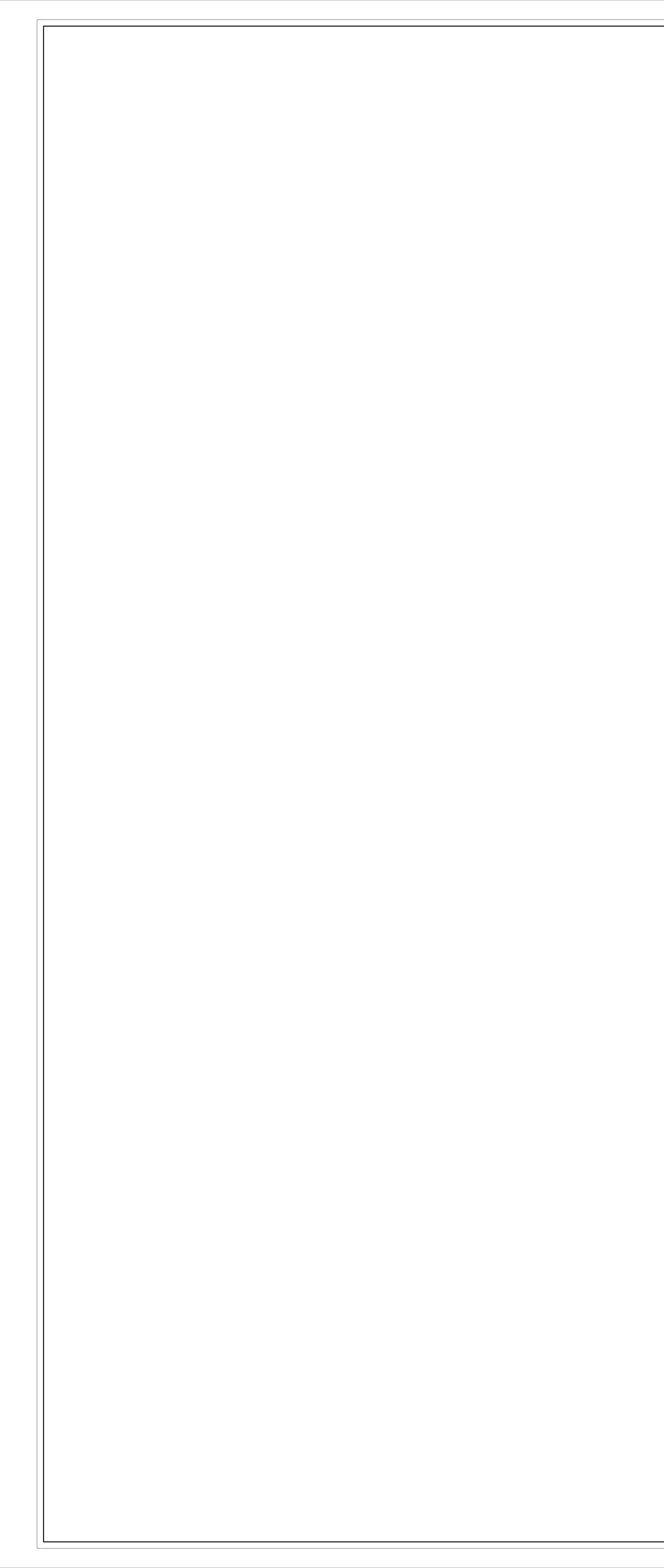




2 MECHANICAL - NORTH WING UPPER LEVEL PIPING PLAN 1/8" = 1'-0"

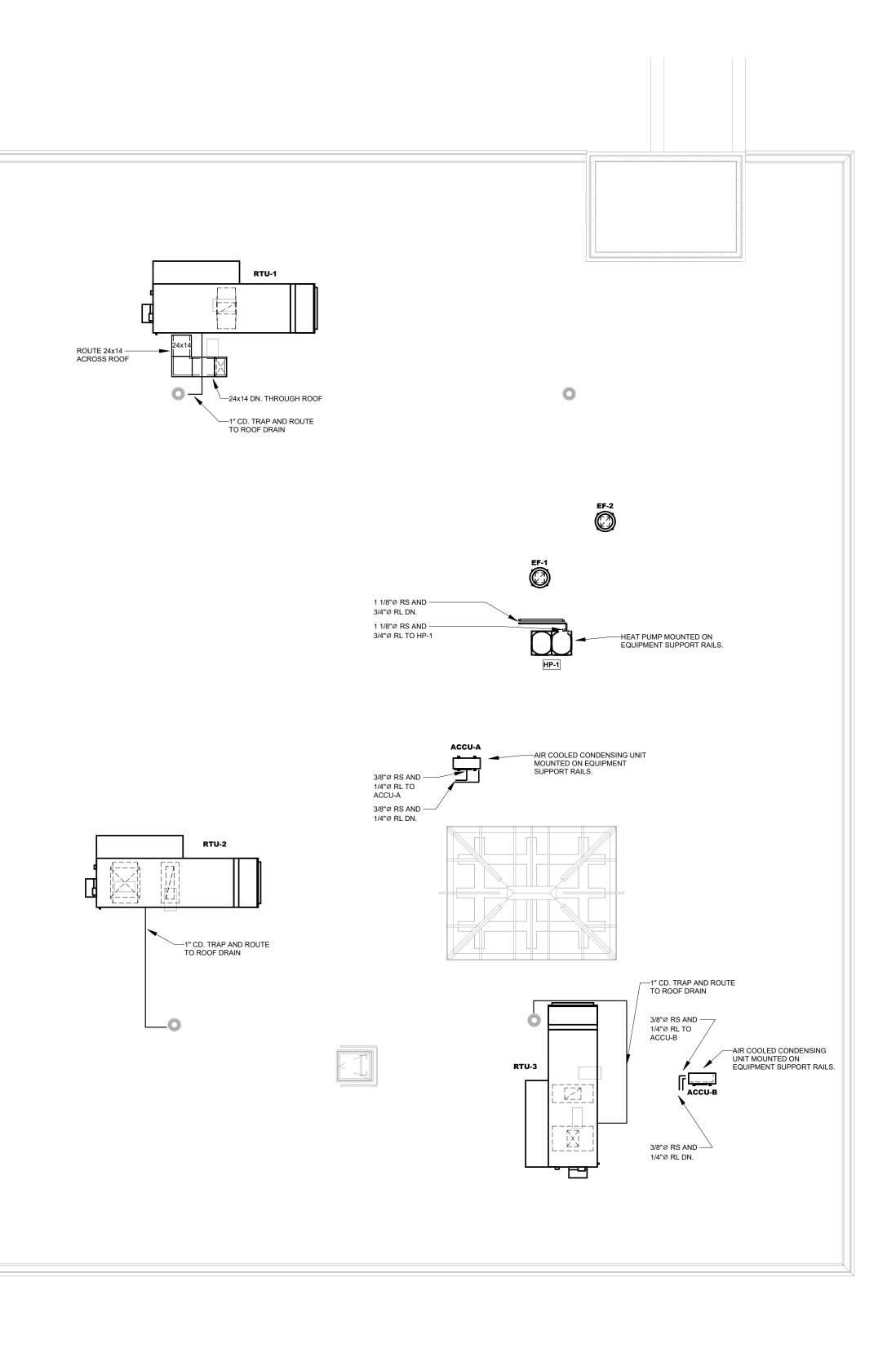




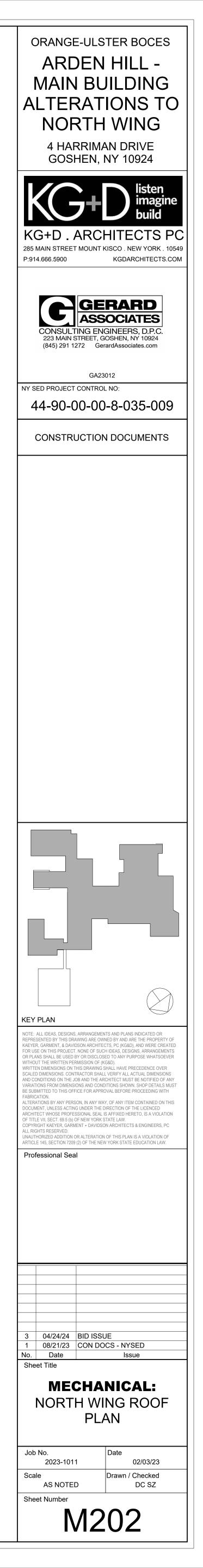


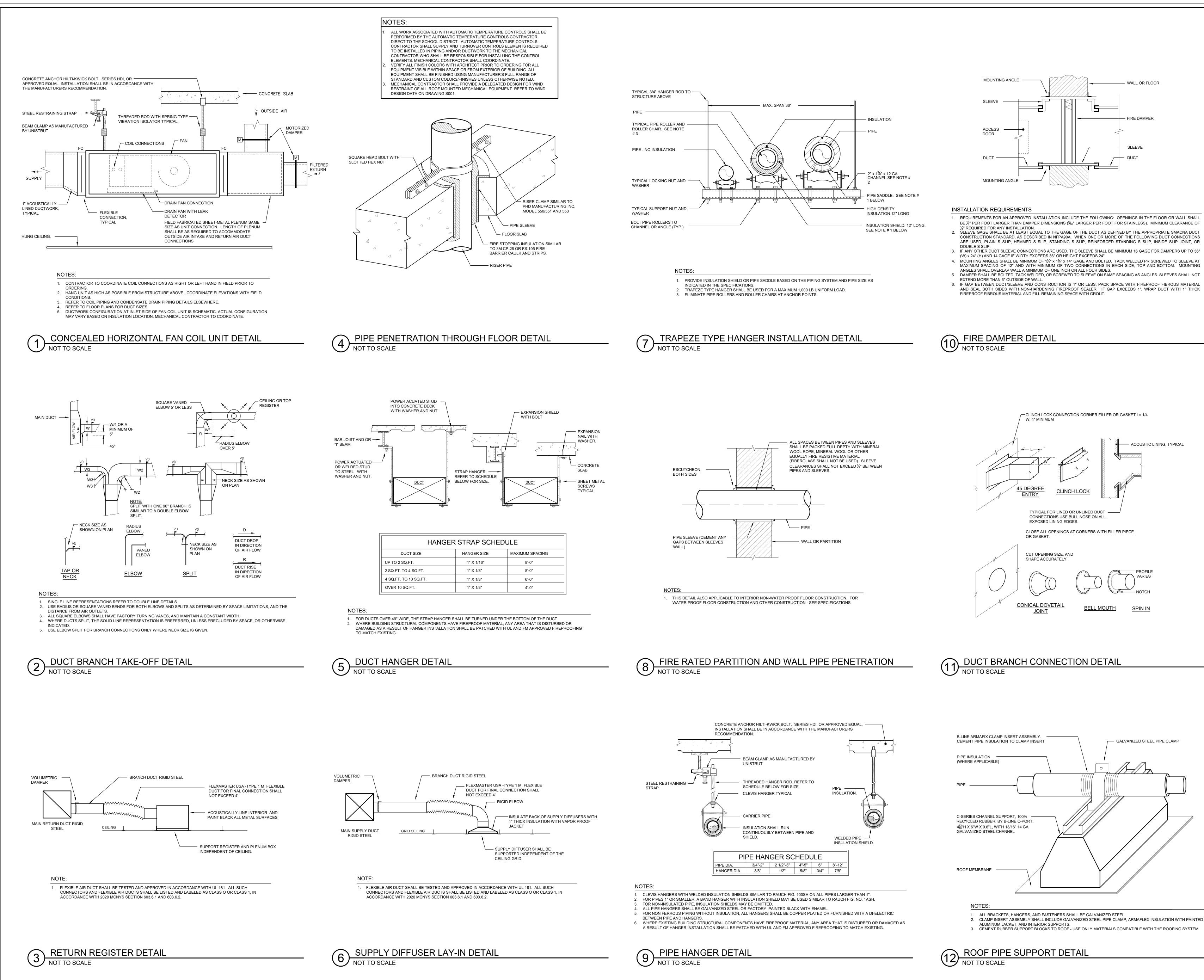


1 MECHANICAL - NORTH WING ROOF PLAN 1/8" = 1'-0"



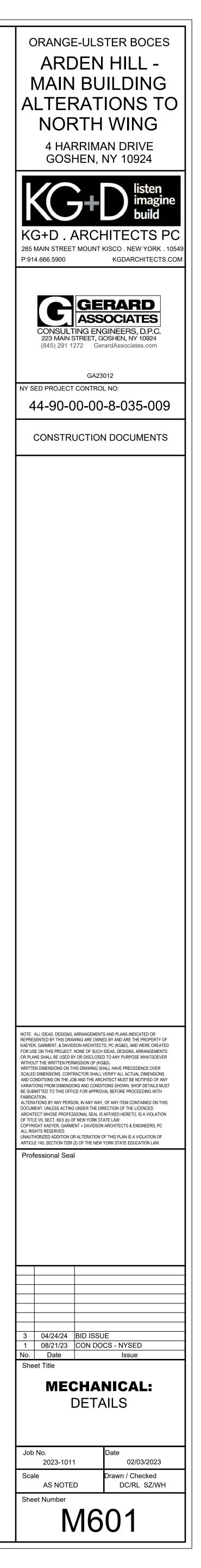
NOTES: 1. ALL WORK ASSOCIATED WITH AUTOMATIC TEMPERATURE CONTROLS SHALL BE PERFORMED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR DIRECT TO THE SCHOOL DISTRICT. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUPPLY AND TURNOVER CONTROLS ELEMENTS REQUIRED TO BE INSTALLED IN PIPING AND/OR DUCTWORK TO THE MECHANICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROL ELEMENTS. MECHANICAL CONTRACTOR SHALL COORDINATE. 2. FINAL REFRIGERANT PIPE SIZING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER'S REPRESENTATIVE BASED ON CONTRACTOR'S PIPING LAYOUT DRAWINGS.

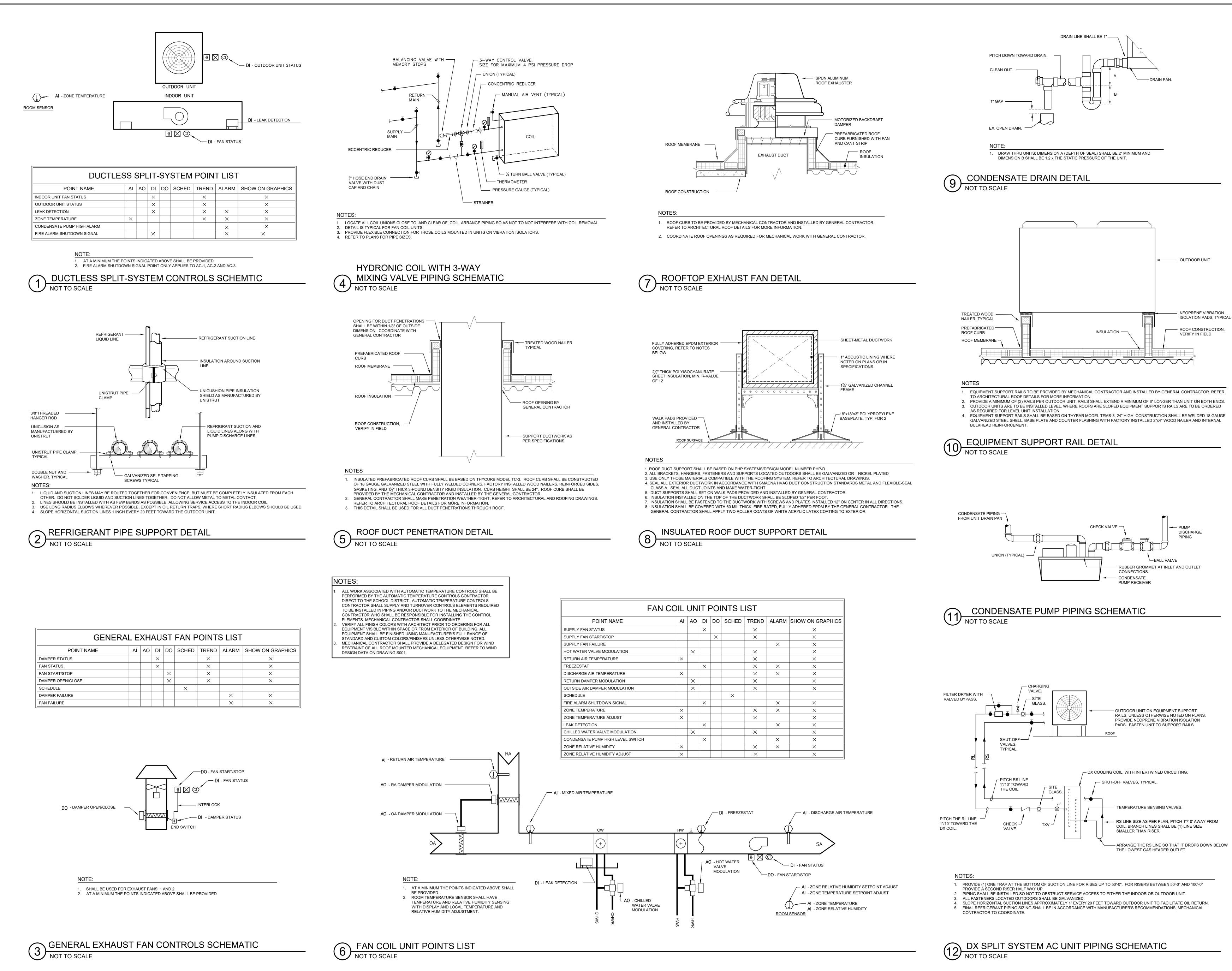


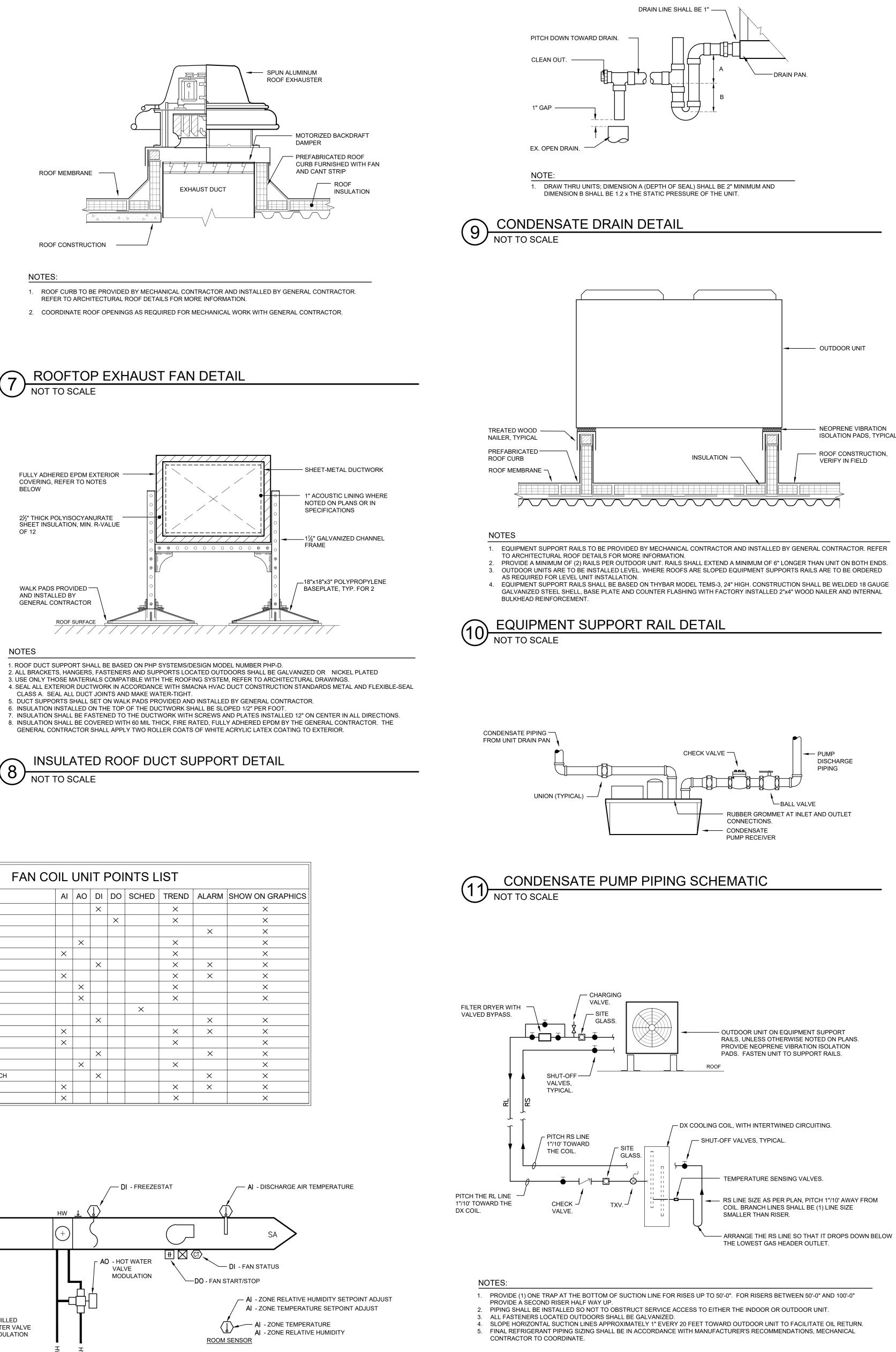


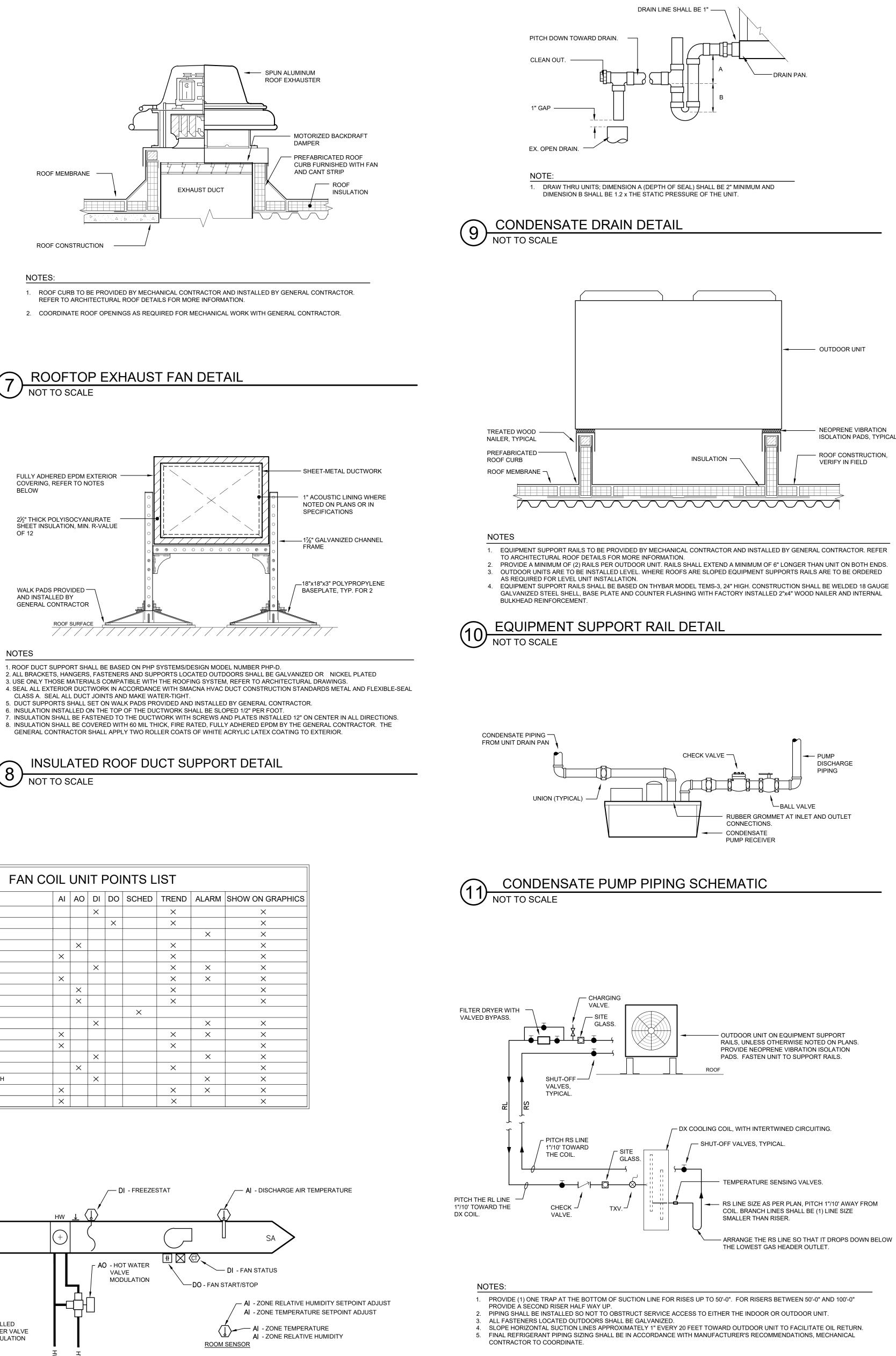
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HANGEF	R STRAP SCHED	JLE
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ.FT.	1" X 1/16"	8'-0"
2 SQ.FT. TO 4 SQ.FT.	1" X 1/8"	8'-0"
4 SQ.FT. TO 10 SQ.FT.	1" X 1/8"	6'-0"
OVER 10 SQ.FT.	1" X 1/8"	4'-0"

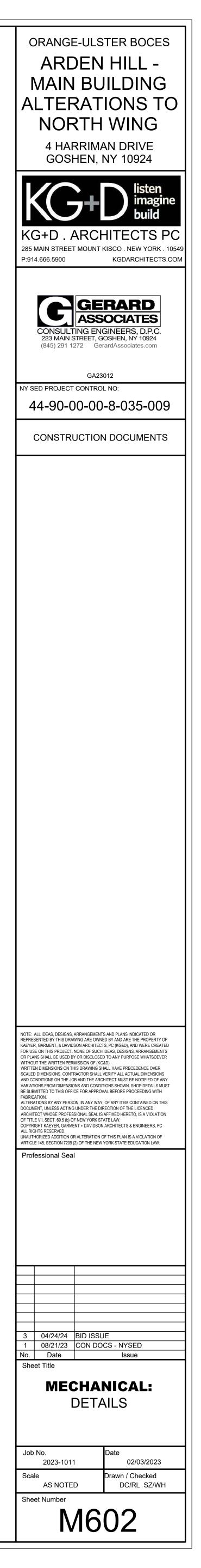
- BE ¹/₈" PER FOOT LARGER THAN DAMPER DIMENSIONS (³/₆" LARGER PER FOOT FOR STAINLESS). MINIMUM CLEARANCE OF 2. SLEEVE GAGE SHALL BE AT LEAST EQUAL TO THE GAGE OF THE DUCT AS DEFINED BY THE APPROPRIATE SMACNA DUCT CONSTRUCTION STANDARD, AS DESCRIBED IN NFPA90A. WHEN ONE OR MORE OF THE FOLLOWING DUCT CONNECTIONS
- 3. IF ANY OTHER DUCT SLEEVE CONNECTIONS ARE USED, THE SLEEVE SHALL BE MINIMUM 16 GAGE FOR DAMPERS UP TO 36'
- 4. MOUNTING ANGLES SHALL BE MINIMUM OF 11/2" x 11/2" x 14" GAGE AND BOLTED. TACK WELDED PR SCREWED TO SLEEVE AT MAXIMUM SPACING OF 12" AND WITH MINIMUM OF TWO CONNECTIONS IN EACH SIDE, TOP AND BOTTOM. MOUNTING
- 5. DAMPER SHALL BE BOLTED, TACK WELDED, OR SCREWED TO SLEEVE ON SAME SPACING AS ANGLES. SLEEVES SHALL NOT
- 6. IF GAP BETWEEN DUCT/SLEEVE AND CONSTRUCTION IS 1" OR LESS, PACK SPACE WITH FIREPROOF FIBROUS MATERIAL AND SEAL BOTH SIDES WITH NON-HARDENING FIREPROOF SEALER. IF GAP EXCEEDS 1", WRAP DUCT WITH 1" THICK

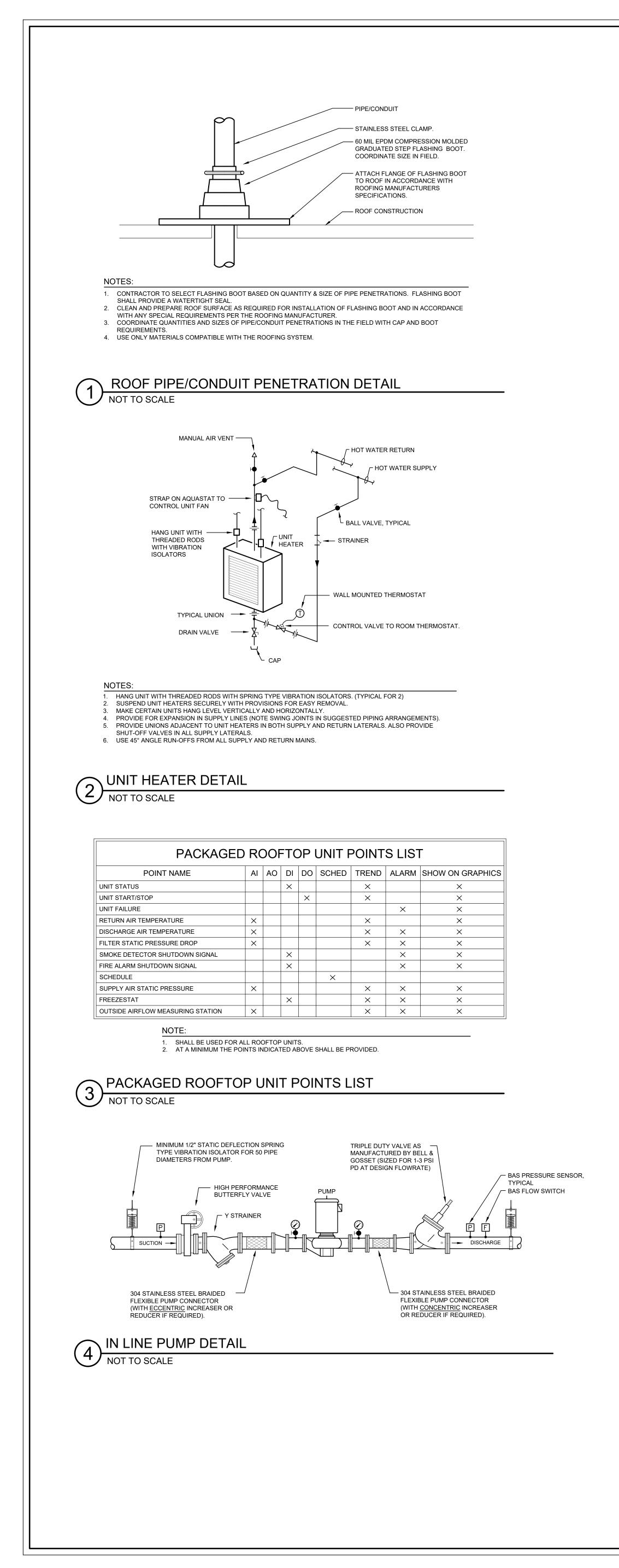






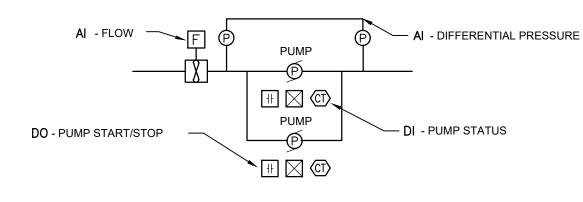






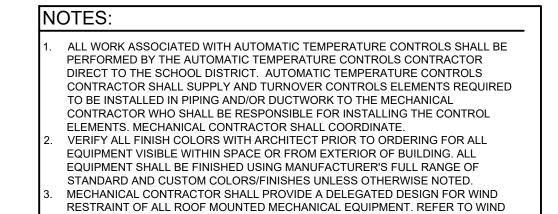
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POINT NAME	AI	AO	DI	DO	SCHED	TREND	ALARM	SHOW ON GRAPHICS
PUMP STATUS			×			×		X
PUMP START/STOP				×		×		X
FLOW	×					×	×	×
PRESSURE DIFFERENTIAL	×					×	×	X
PUMP FAILURE							×	×
SCHEDULE					×			

NOTE: 1. AT A MINIMUM THE POINTS INDICATED ABOVE SHALL BE PROVIDED.

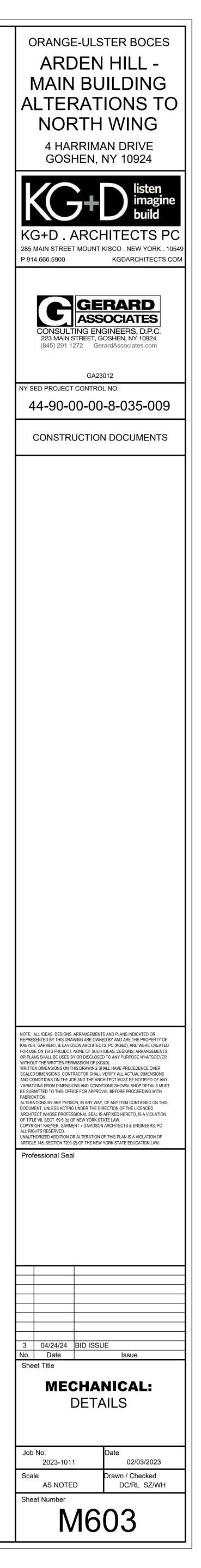


PUMP WITHOUT VARIABLE FREQUENCY DRIVE POINTS LIST

5 NOT TO SCALE



DESIGN DATA ON DRAWING S001.



ISS OTHERWISE NOTED MICHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, IPPING, VALVES, ACCESS DOORS, HANGERS, NGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAMINGS TO RENORT THE HYAC SYSTEMS IRACTORS SHALL PARTICIPATE IN MAKING COORDINATION DRAWINGS WITH OTHER TRADES. HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT TO HITEOT FOR APPROVAL, DEMONSTRATE NEW HVAC SYSTEMS TO SCHOOL DISTRICT AND REVIEW MAINTENANCE PROCEDURES. HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT TO HITEOT FOR APPROVAL, DEMONSTRATE NEW HVAC SYSTEMS TO SCHOOL DISTRICT AND REVIEW MAINTENANCE PROCEDURES. HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SEAL AROUND ALL PERFORMANCE PROCEDURES. HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SEAL AROUND ALL PERFORMANCE PROCEDURES. HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SEAL AROUND ALL PERFORMANCE PROCEDURES. HANICAL CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT. SQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. MATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (120Y) AND (24V) FOR ENS SHOWN ON HVAC DRAWINGS AND DESCRIPTION. AND AND INSTALL ALL CONTROL WIRING (120Y) AND (24V) FOR ENS SHOWN ON HVAC DRAWINGS AND DESCRIPTION. APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS DUT. JUNCTION BOXES. CONDUCTORS. THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS PLITE AND DEPRENTING EVENTIAL ECONTROLS CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED CALUTHORITY HAVING JURISICTION. HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PERFORM THE WORK. ALL FLOORGS AND CONTROL WIRK SHALL BE CONSTRUCE CONTROLS CONTRACTOR SHALL PERFORM THE WORK. ALL FLOORGS AND CONTROL WIRK SHALL BE CONSTRUCE CONTROLS CONTRACTOR SHALL PERFORM THE AND DISPECTION REVERANCED. DUCTWORK SHALL BE CONSTRUCE CO
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HANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUPPLEMENTAL STRUCTURAL STEEL SUPPORT ASSOCIATED WITH NEW
C EQUIPMENT HUNG OR SUPPORTED FROM OR ON THE BUILDING STRUCTURE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO HITECT FOR APPROVAL PRIOR TO STEEL FABRICATION AND INSTALLATION OF EQUIPMENT.
HANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS IN SUPPLY AND RETURN AIR DUCTWORK OR PLENUM REAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OR OUTDOOR AIR CONNECTIONS AND WHERE REQUIRED FOR SMOKE PERS. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONNECTION TO FIRE ALARM SYSTEM L BE BY THE FIRE ALARM CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK FOR EACH KE DETECTOR.
HANICAL CONTRACTOR SHALL SUBMIT PIPING AND DUCTWORK FULLY COORDINATED SHOP DRAWINGS FOR ENGINEERS REVIEW. GENERAL CONDITIONS FOR NUMBER OF SHOP DRAWINGS.
HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL INSTRUCT SCHOOL DISTRICT AND KEY PERSONNEL ON RATION OF ALL HVAC SYSTEMS. SET ALL THERMOSTATS TO TEMPERATURES AND SCHEDULES AS DIRECTED BY SCHOOL DISTRICT.
HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL INCLUDE IN BID ALL MATERIALS, RIGGING AND LABOR JIRED FOR THE COMPLETE AND PROPER INSTALLATION OF THE MECHANICAL SYSTEM.
HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE NNING OF WORK, AND COORDINATE WORK ALL OTHER TRADES.
/IDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. /IDE VOLUME DAMPERS ON ALL SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST BRANCH DUCTWORK, WHETHER SPECIFICALLY
CATED ON DRAWINGS OR NOT.
/IDE 1½" ACOUSTIC LINING A MINIMUM OF 25'-0" FROM INLET AND OUTLET OF ALL FANS. THE FIRST FIGURE OF DUCT SIZE INDICATE NSION OF FACE SHOWN OR INDICATED. DUCT DIMENSIONS SHOWN ON DRAWINGS REFER TO INSIDE CLEAR DIMENSIONS. WHERE IWORK IS LINED, THE CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SCHEDULE ALL SHUT-DOWNS OF EXISTING BASE DING EQUIPMENT/SYSTEMS WITH SCHOOL DISTRICT AS REQUIRED FOR PERFORMING WORK. NOTICE SHALL BE GIVEN NO LESS I (5) FIVE BUSINESS DAYS PRIOR TO REQUIRED SHUT-DOWN. SHUT-DOWNS SHALL NOT BE PERFORMED WITHOUT APPROVAL FROM DOL DISTRICT.
ESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, CEILING REMOVAL, TEMPORARY PROTECTION, AND REPLACEMENT AS JIRED PERFORMING SCOPE OF WORK SHALL BE BY THIS MECHANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR. NG TILES DAMAGED AS A RESULT OF THIS CONTRACTOR'S WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE SCHOOL RICT.
MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE HANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE AND SHALL BE NEMA 3R WHEN LOCATED OUTSIDE.
HANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING (AND PROPER DISPOSAL OF DRAINED WATER) AND REFILLING TING SYSTEMS AS REQUIRED FOR COMPLETION OF WORK.
HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL ALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT DDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP AND MISSIONING OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
HANICAL AND AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING RUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.
NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN OR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EXISTING EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY S DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO SCHOOL RICT.
ESS OTHERWISE NOTED AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROLS EQUIPMENT, WIRING, TROL VALVES, PROGRAMMING, GRAPHICS UPDATES AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE WINGS TO RENDER THE HVAC CONTROLS SYSTEMS COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND ERALLY ACCEPTED INDUSTRY STANDARDS.

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SY	MB	OL		Α
(CD-) CFN		-	 -
(ER-)		4	 -
(RG-)	K I	-	 -
(RR-)	K 1	4	
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BREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	CEILING DIFFUSER		FPI	FINS PER INCH	CD	CD	CONDENSATE DRAIN		LD	LINEAR DIFFUSER
IRFLOW			FPM	FEET PER MINUTE	— CHWR —	CHWR	CHILLED WATER RETURN	СD		CEILING DIFFUSER
	EXHAUST REGISTER		FT H ₂ O	FEET OF WATER	— CHWS —	CHWS	CHILLED WATER SUPPLY			EXHAUST REGISTER
IRFLOW			FT ²	SQUARE FEET	— HWS —	HWS	HOT WATER SUPPLY			RETURN GRILLE
ESIGNATION	RETURN GRILLE		GA	GAUGE		HWR	HOT WATER RETURN		RR	RETURN REGISTER
IRFLOW			GC	GENERAL CONTRACTOR	PD	PD	PUMP DISCHARGE, CONDENSATE		-	SUPPLY/OUTSIDE AIR INTAKE DUCT UP
ESIGNATION	RETURN REGISTER		GPM	GALLONS PER MINUTE	RL	RL	REFRIGERANT LIQUID	[]×<[]	-	SUPPLY/OUTSIDE AIR INTAKE DUCT DOWN
IRFLOW	REI URN REGISTER		IN H ₂ O	INCHES OF WATER COLUMN	—	RS	REFRIGERANT SUCTION		-	RETURN/EXHAUST AIR DUCT UP
ESIGNATION			HOA	HAND-OFF-AUTO SWITCH		EX.	EXISTING TO REMAIN		-	RETURN/EXHAUST AIR DUCT DOWN
AX AIRFLOW	LINEAR DIFFUSER		HP	HORSE POWER		NEW	NEW WORK	<u>6 x 8</u>	-	DUCT SIZE
A	AMPS		HSPF	HEATING SEASONAL PERFORMANCE FACTOR		DEM.	EXISTING TO BE REMOVED		FC	FLEXIBLE CONNECTION
AC	AIR CONDITIONING UNIT		HZ	HERTZ		-	ELBOW UP		-	TRANSITION FROM SQUARE TO ROUND DUCT
ACCU	AIR COOLED CONDENSING UNIT		IPLV	INTEGRATED PART LOAD VALVE	C		ELBOW DOWN		-	TRANSITION
AD	ACCESS DOOR		LAT	LEAVING AIR TEMPERATURE			TEE UP			DUCT DROP
AFF	ABOVE FINISHED FLOOR		LBS	POUNDS			TEE DN		-	DUCT RISE
AFF	ABOVE HUNG CEILING		LWT	LEAVING WATER TEMPERATURE						SQUARE VANED ELBOW
						-	BRAIDED FLEXIBLE CONNECTION		-	
AI	ANALOG INPUT		MAX.	MAXIMUM		-			-	DUCT TRANSITION
AO	ANALOG OUTPUT		MBH	1000 BRITISH THERMAL UNITS PER HOUR		-	CONCENTRIC REDUCER		-	DUCT DROP
ATC	AUTOMATIC TEMPERATURE CONTROL		MCA	MINIMUM CIRCUIT AMPACITY	— + ,+ _	-	STRAINER		-	DUCT RISE
AV	ANALOG VALUE		MER	MECHANICAL EQUIPMENT ROOM	_	-	FLOW ARROW		-	FLEXIBLE DUCTWORK
BAS	BUILDING AUTOMATION SYSTEM		MIN.	MINIMUM		-	CHECK VALVE		-	ACOUSTIC LINING
BDD	BACKDRAFT DAMPER		MOCP	MAXIMUM OVERCURRENT PROTECTION		-	BALANCING VALVE	L C C C C C C C C C C C C C C C C C C C	VD	VOLUME DAMPER
BHP	BRAKE HORSE POWER		NC	NORMALLY CLOSED		-	2-WAY VALVE	CFSD	CFSD	COMBINATION FIRE/SMOKE DAMPER WITH ACCES
BI	BINARY INPUT		NC	NOISE CRITERIA	<u> </u>	-	3-WAY VALVE	FD	FD	FIRE DAMPER WITH ACCESS DOOR
во	BINARY OUTPUT		NIC	NOT IN CONTACT		-	OS&Y GATE VALVE	M	MD	MOTORIZED DAMPER
BTU	BRITISH THERMAL UNIT		NO	NORMALLY OPEN		-	BALL VALVE	SD	SD	SMOKE DAMPER WITH ACCESS DOOR
BTUH	BRITISH THERMAL UNIT PER HOUR		OAI	OUTSIDE AIR INTAKE			BUTTERFLY VALVE - HIGH PERFORMANCE		-	DUCT MOUNTED SMOKE DETECTOR
BV	BINARY VALUE		PC	PLUMBING CONTRACTOR	I		UNION	Ū		COMBINATION TEMPERATURE/HUMIDITY SENSOR
CFM	CUBIC FEET PER MINUTE		PRV	PRESSURE REDUCING VALVE			MANUAL AIR VENT		-	TEMPERATURE SENSOR
DB	DRY BULB TEMPERATURE		PSI	POUNDS PER SQUARE INCH			THERMOMETER		<u> </u>	AIR INTO REGISTER
DDC	DIRECT DIGITAL CONTROL		RA	RETURN AIR			PRESSURE GAUGE	••••	-	POINT OF DISCONNECT/CONNECT
DI	DIGITAL INPUT		RF	RETURN FAN			ROOF DRAIN			
						-				
DIA	DIAMETER OR PHASE		RPM		Ø	-	PUMP			
DN	DOWN		RTU	ROOFTOP UNIT						
DO	DIGITAL OUTPUT		SA	SUPPLY AIR						
DS	DISCONNECT SWITCH		SEER	SEASONAL ENERGY EFFICIENCY RATIO						
DX	DIRECT EXPANSION		SQ.FT.	SQUARE FEET						
EA	EXHAUST AIR		TD	TRANSFER DUCT						
EAT	ENTERING AIR TEMPERATURE		TSP	TOTAL STATIC PRESSURE						
EC	ELECTRICAL CONTRACTOR		ТХV	THERMAL EXPANSION VALVE						
EER	ENERGY EFFICIENT RATING		TYP.	TYPICAL						
EF	EXHAUST FAN		V	VOLT						
ESP	EXTERNAL STATIC PRESSURE		VFD	VARIABLE FREQUENCY DRIVE						
EWT	ENTERING WATER TEMPERATURE		UON	UNLESS OTHERWISE NOTED						
°F	FAHRENHEIT		VTR	VENT TO ROOF						
FAI	FRESH AIR INTAKE		WB	WET BULB TEMPERATURE						
FCU	FAN COIL UNIT		WG	INCHES OF WATER GAUGE						
		11								

NOTES:

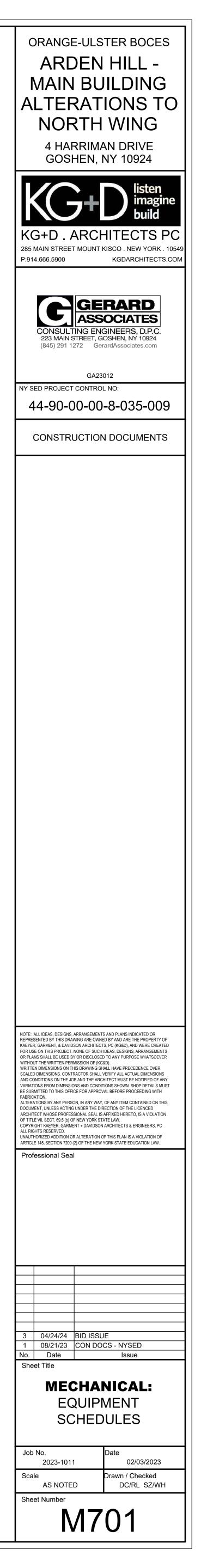
DIRECT TO THE SCHOOL DISTRICT. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUPPLY AND TURNOVER CONTROLS ELEMENTS REQUIRED TO BE INSTALLED IN PIPING AND/OR DUCTWORK TO THE MECHANICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROL

ELEMENTS. MECHANICAL CONTRACTOR SHALL COORDINATE. VERIFY ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDERING FOR ALL EQUIPMENT VISIBLE WITHIN SPACE OR FROM EXTERIOR OF BUILDING. ALL

MECHANICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN FOR WIND

DESIGN DATA ON DRAWING S001.

I. ALL WORK ASSOCIATED WITH AUTOMATIC TEMPERATURE CONTROLS SHALL BE PERFORMED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR EQUIPMENT SHALL BE FINISHED USING MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHES UNLESS OTHERWISE NOTED. RESTRAINT OF ALL ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO WIND



		0175	AREA		FAN CHAI	RACTERISTICS			ELECTRICAL				C	DOLING CHA	RACTERISTICS	S				н	EATING CHAP	RACTERISTIC	5		FILTER DATA
DESIGNATION	MODEL	SIZE		CFM	OUTSIDE A CFM	AIR ESP (IN H₂O)	HP	VOLTS/Ø	FLA/MCA	MOCP	TOTAL CAP. (BTUH)	SENS. CAP. (BTUH)	EAT (DB/WB)	LAT (DB/WB)	EWT/LWT	PD (FT. H₂O)	NO. OF ROWS/FPI	FLOW RATE (GPM)	SENS. CAP. (BTUH)	EAT/LAT (DB)	EWT/LWT	PD (FT. H₂O)	NO. OF ROWS/FPI	FLOW RATE (GPM)	TYPE
FCU-1A	BCHE	12	REFER TO PLANS	400	65	0.75	1/2	208/3	2.4/3.0	15	9,010	7,500	71.90/61.70	54.84/53.91	45.0/55.0	0.64	6/10	1.9	14,920	67/100.49	200/151.87	0.10	1/10	0.59	NA
FCU-2A	BCHE	24	REFER TO PLANS	600	310	0.75	1/2	208/3	2.4/3.0	15	15,430	11,910	71.90/61.70	53.81/52.70	45.0/55.0	2.21	6/10	3.3	22,650	67/101.94	200/139.40	0.16	1/10	0.75	NA
FCU-2B	BCHE	24	REFER TO PLANS	600	140	0.75	1/2	208/3	2.4/3.0	15	15,430	11,910	71.90/61.70	53.81/52.70	45.0/55.0	2.21	6/10	3.3	22,650	67/101.94	200/139.40	0.16	1/10	0.75	NA
FCU-3A	BCHE	24	REFER TO PLANS	700	340	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA
FCU-3B	BCHE	24	REFER TO PLANS	700	360	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA
FCU-3C	BCHE	24	REFER TO PLANS	700	375	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA
FCU-3D	BCHE	24	REFER TO PLANS	700	145	0.75	1/2	208/3	2.40/3.0	15	17,570	13,380	72.0/61.90	54.58/53.18	45.0/55.0	2.90	6/10	3.9	26,790	67/102.45	200/144.08	0.25	1/10	0.9	NA
FCU-4A	BCHE	36	REFER TO PLANS	900	410	0.75	1/2	208/3	2.40/3.0	15	22,560	16,810	72.20/62.60	55.20/54.04	45.0/55.0	3.90	4/10	4.8	33,580	67/101.50	200/124.82	0.29	1/10	0.9	NA
FCU-5A	BCHE	36	REFER TO PLANS	950	500	0.75	1/2	208/3	2.40/3.0	15	21,540	17,510	71.90/61.70	55.11/53.86	45.0/55.0	3.66	4/10	4.6	35,530	67/101.59	200/126.48	0.33	1/10	0.9	NA
FCU-5B	BCHE	36	REFER TO PLANS	950	435	0.75	1/2	208/3	2.40/3.0	15	21,540	17,510	71.90/61.70	55.11/53.86	45.0/55.0	3.66	4/10	4.6	35,530	67/101.59	200/126.48	0.33	1/10	0.9	NA
FCU-6A	BCHE	36	REFER TO PLANS	1000	500	0.75	1/2	208/3	2.40/3.0	15	22,510	18,230	72.0/61.80	55.39/54.03	45.0/55.0	4.00	4/10	4.9	37,540	67/101.73	200/128.23	0.38	1/10	1.0	NA
FCU-6B	BCHE	36	REFER TO PLANS	1000	460	0.75	1/2	208/3	2.40/3.0	15	22,510	18,230	72.0/61.80	55.39/54.03	45.0/55.0	4.00	4/10	4.9	37,540	67/101.73	200/128.23	0.38	1/10	1.0	NA
FCU-7A	BCHE	36	REFER TO PLANS	1100	505	0.75	1	208/3	4.60/5.75	15	24,410	19,890	72.20/61.90	55.73/54.27	45.0/55.0	4.66	4/10	5.3	41,360	67/101.79	200/131.93	0.49	1/10	1.2	NA

. 4-PIPE FAN COIL UNITS SHALL BE BASED ON TRANE. 2. ALL FAN COIL UNITS SHALL BE UL LISTED AND LABELED.

FAN COIL UNIT CONTROLS SHALL BE BY AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR.
 MECHANICAL CONTRACTOR TO CONFIRM COIL SIDE CONNECTIONS IN FIELD PRIOR TO ORDERING.

MINIMUM HALF OF	PAIR 10Ft SP		PAIR 8Ft SPA		PAIR 5Ft SPA		PAIR 4Ft SPA	
DUCT PERIMETER	STRAP	ROD	STRAP	ROD	STRAP	ROD	STRAP	ROD
P/2 = 30"	1" x 22ga	1⁄4"	1" x 22ga	1⁄4"	1" x 22ga	1⁄4"	1" x 22ga	1⁄4"
P/2 = 72"	1" x 18ga	³ ⁄8"	1" x 20ga	1⁄4"	1" x 22ga	1⁄4"	1" x 22ga	1⁄4"
P/2 = 96"	1" x 16ga	3⁄8"	1" x 18ga	3⁄8"	1" x 20ga	3⁄8"	1" x 22ga	³ ⁄8"
P/2 = 120"	1½" x 16ga	1⁄2"	1" x 16ga	3⁄8"	1" x 18ga	3⁄8"	1" x 20ga	³ ⁄8"
P/2 = 168"	1½" x 16ga	1⁄2"	1" x 16ga	1/2"	1" x 16ga	³ ⁄8"	1" x 18ga	³ ⁄8"
P/2 = 192"	-	-	1" x 16ga	1⁄2"	1" x 16ga	3⁄8"	1" x 18ga	3⁄8"
	I				SINGLE HANG	ER MAXIMU	M ALLOWABLE	LOAD
WHEN STRAPS / FASTENERS:	ARE LAP JOINE	D USE THESE	MINIMUM		STRAP		ROD (D	ia.)
1" x 18, 20, 22ga	ON 1/" I				1" x 22ga - 260Lb	s.	1⁄4" - 270L	.bs.
1" X 16ga	- T	WO ¼" Dia.			1" x 20ga - 32Lbs	s.	⅔" - 680L	.bs.
1" X 16ga	- T	WO ⅔" Dia.			1" x 18ga - 420Lb	s.	1/2" - 1250	Lbs.
PLACE FASTENE	ERS IN SERIES,	NOT SIDE BY	SIDE.		1" x 16ga - 700Lb	s.	% " - 2000	Lbs.
					l½" x 16ga - 1100L	bs.	³ ⁄4" - 3000	Lbs.

2. TABLES ALLOW FOR DUCT WEIGHT, 1 LB./SF. INSULATION WEIGHT AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.

3. STRAPS ARE GALVANIZED STEEL.

4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA. MAXIMUM, EXCEPT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.

MECHAN	NICAL PI	PING MATER	RIAL SCHEDULE	:
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD
HOT & CHILLED WATER	3" & DOWN	COPPER	HARD DRAWN TYPE L TUBING	ASTM B 88
HOT & CHILLED WATER	4" & UP	BLACK STEEL	SCHEDULE 40	ASTM A 53
INTERIOR CONDENSATE & CONDENSATE PUMP DISCHARGE	ALL	COPPER	HARD DRAWN TYPE L TUBING	ASTM B 88
CONDENSATE DRAIN (EXTERIOR)	ALL	PVC	SCHEDULE 40 DWV	ASTM D 2665
REFRIGERANT	ALL	COPPER	HARD OR ANNEALED TYPE ACR	ASTM B 280

NOTES:

ALL WORK ASSOCIATED WITH AUTOMATIC TEMPERATURE CONTROLS SHALL BE PERFORMED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR DIRECT TO THE SCHOOL DISTRICT. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUPPLY AND TURNOVER CONTROLS ELEMENTS REQUIRED TO BE INSTALLED IN PIPING AND/OR DUCTWORK TO THE MECHANICAL

CONTRACTOR WHO SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROL ELEMENTS. MECHANICAL CONTRACTOR SHALL COORDINATE. VERIFY ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDERING FOR ALL EQUIPMENT VISIBLE WITHIN SPACE OR FROM EXTERIOR OF BUILDING. ALL EQUIPMENT SHALL BE FINISHED USING MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHES UNLESS OTHERWISE NOTED.

MECHANICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN FOR WIND RESTRAINT OF ALL ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO WIND DESIGN DATA ON DRAWING S001.

FAN COIL UNIT SCHEDULE

5. EACH FAN COIL UNIT SHALL BE PROVIDED WITH: DISCONNECT SWITCH, INLET/OUTLET FLEXIBLE CONNECTIONS, RUBBER-IN SHEAR VIBRATION ISOLATORS, 1-INCH MATTE FACED INSULATION, STAINLESS STEEL DRAIN PAN, STAINLESS STEEL AUXILIARY DRAIN PAN, AND ELECTRONICALLY COMMUTATED MOTORS 6. HOT WATER COILS SHALL BE IN THE REHEAT POSITION.

			PIPE	HANGE	R SCHE	DULE			
PIPE SIZE		MUM HORIZO PACING (FEE		-	TEEL ROD ZE (INCHES)	HANGER		XIMUM VERT SPACING (FEE	
(INCHES)	COPPER TUBE	STEEL PIPE	PVC PIPE	TUBING	PIPING	TYPE STEEL	COPPER TUBE	STEEL PIPE	PVC PIPE
1/2"	6	8	4	1⁄4"	3⁄8"	BAND	10	15	10
³ ⁄4"	6	8	4	1⁄4"	3⁄8"	BAND	10	15	10
1"	6	8	4	1⁄4"	3⁄8"	BAND	10	15	10
11/4"	6	9	4	1⁄4"	3⁄8"	CLEVIS	10	15	10
11/2"	6	9	4	1⁄4"	3⁄8"	CLEVIS	10	15	10
2"	10	10	4	1⁄4"	³ ⁄8"	CLEVIS	10	15	10
2½"	10	12	4	³ ⁄8"	1/2"	CLEVIS	10	15	10
3"	10	12	4	³ ⁄8"	1/2"	CLEVIS	10	15	10
4"		12	4	1⁄2"	⁵ ⁄8"	CLEVIS OR ROLLER		15	10
6"		12			3⁄4"	CLEVIS OR ROLLER		15	

NOTES:

. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE RUNS.

2. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.

3. SUPPORT ALL BRANCH PIPING OVER 5'-0" IN LENGTH.

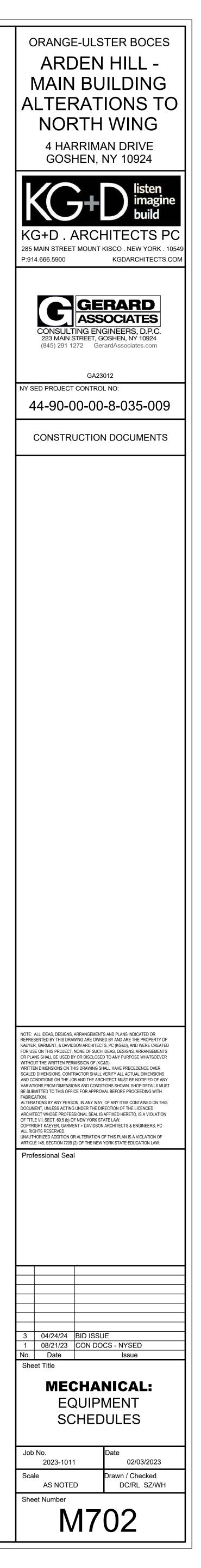
4. USE ROLLER TYPE HANGERS (MSS TYPE 41) WHERE PIPING IS SUBJECT TO MOVEMENT CAUSED BY EXPANSION AND CONTRACTION.

5. HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.

6. PIPING SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING SPECIFIED IN SCHEDULE OR IN ACCORDANCE WITH MSS SP-69.

MECHA	NICAL F		NG SCHEDULE		
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANE	DARD
HOT & CHILLED WATER	3" & DOWN	WROUGHT COPPER	LEAD-FREE SOLDER ASTM B828	ASME E	8 16.22
HOT & CHILLED WATER	4" & UP	CARBON STEEL	BUTT WELDED OR FLANGED	ASME B 16.9	ASME 234
INTERIOR CONDENSATE & CONDENSATE PUMP DISCHARGE	ALL	WROUGHT COPPER	SOLDER	ASME E	3 16.22
CONDENSATE DRAIN (EXTERIOR)	ALL	PVC	SCHEDULE 40 DWV SOLVENT CEMENT	ASTM D ASTM D	
REFRIGERANT	ALL	COPPER	SILVER SOLDER 300 PSI	ANSI B	16.22

		M	ECHANICAL EQUIPMENT SCHEDULE
SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
CD-A	KRUEGER	1400	STEEL HIGH PERFORMANCE CEILING DIFFUSER. MAXIMUM CORE VELOCITY: 550 FPM. MAXIMUM NOISE CRITERIA: 15 NC. SURFACE MOUNTED WITH FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE. BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT. 4-WAY DEFLECTION. 24" x 24" MODULE SIZE. ALL DIFFUSERS SHALL BE EQUIPPED WITH OPPOSED BLADE VOLUME DAMPER.
SD	RUSKIN	SD60	CONSTRUCTED AND INSTALLED ACCORDING TO NFPA90A AND UL LABELS. UL 555S OPPOSED AIRFOIL BLADE DAMPER, HIGH PERFORMANCE AND LOW LEAKAGE CLASS 1. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 4,000 FPM AND 8.0" SP. FURNISH UL RATED ELECTRIC DAMPER ACTUATOR AND CONTROL SWITCHES AS REQUIRED. FURNISH WITH FACTORY WELDED INTEGRAL WALL SLEEVE, FRAME MOUNTING ANGLES, G STYLE WITH ¾" MOUNTING FLANGE, AND EITHER DUCTMATE OR SLIP DRIVE BREAK AWAY CONNECTIONS. 120V/10/60Hz; 0.25 AMPS; 23 WATTS. COORDINATE ROTATION IN FIELD. PROVIDE DISCONNECT, DAMPER TEST SWITCH, AND END SWITCH. SMOKE DETECTOR PROVIDED BY OTHERS, INSTALLED BY MECHANICAL CONTRACTOR IN DUCTWORK.
ER-A RR-A	KRUEGER	S80H	STEEL RETURN REGISTER WITH ¾" FIXED BLADE SPACING. MAXIMUM CORE VELOCITY: 500 FPM. MAXIMUM NOISE CRITERIA: 25 NC. SURFACE MOUNTED 35° FIXED DEFLECTION BLADES. BLADES PARALLEL TO LONG DIMENSION UNLESS OTHERWISE NOTED. BAKED ENAMEL FINISH, COLOR SELECTED BY ARCHITECT. REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE. REGISTERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME DAMPERS. UNLESS OTHERWISE NOTED ON PLANS REGISTERS AND GRILLES SHALL BE SIZED PER SCHEDULE.CFM RANGE: MECK SIZE: 0-150NECK SIZE: 0-150CFM RANGE: 0.150
RR-B	KRUEGER	S580H	ALUMINUM RETURN GRILLE WITH 3/4" BLADE SPACING. MAXIMUM CORE VELOCITY: 350 FPM. MAXIMUM NOISE CRITERIA: 25NC. GRILLE SHALL HAVE 2" FILTER FRAME WITH 1/4 TURN FASTENER. FINISH, COLOR SELECTED BY ARCHITECT. 4-WAY DEFLECTION. 23.75" x 23.75 MODULE SIZE WITH 20" x 20" NOMINAL DUCT SIZE. ALL REGISTERS SHALL BE EQUIPPED WITH OPPOSED BLADE VOLUME DAMPER. PROVIDE (2) 2" MERV 11 FILTERS PER RETURN REGISTER.
FD	RUSKIN	DIBD2	1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING UL APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" ESP. 165°F FUSIBLE LINK.
LD-A	KRUEGER	PTBS	PLENUM, HIGH FLOW, SLOT DIFFUSER WITH GASKETED ALUMINUM BLADE, EASILY ROTATED FOR ADJUSTMENT FROM HORIZONTAL TO VERTICAL FLOW. MAXIMUM NOISE CRITERIA: 25 NC. DIFFUSERS SHALL BE 4'-0" LONG WITH (1) 1" SLOT, INTERNALLY INSULATED PLENUM WITH 10" OVAL INLET. FINISH COLORS TO BE SELECTED BY ARCHITECT. FRAME SHALL BE F23A-CN. PROVIDE ADJUSTABLE PATTERN CONTROLLERS.
M	RUSKIN	CD450	HIGH PERFORMANCE CONTROL DAMPER. UNLESS PROVIDED WITH A SPECIFIC PIECE OF EQUIPMENT MOTORIZED DAMPERS SHALL BE CONSTRUCTED OF: 4"x1" EXTRUDED ALUMINUM FRAME, 6" WIDE EXTRUDED ALUMINUM AIRFOIL DAMPER BLADES, SANTOPRENE BLADE EDGE AND JAMB SEALS, LEXAN WITH ACETAL COPOLYMER BEARINGS. CLASS 1A LEAKAGE (3 CFM/FT ² AT 1"WC). DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. PROPORTIONAL DAMPER ACTUATORS SHALL BE 24VAC/60Hz., MAXIMUM 6 WATTS RUNNING AND 2 WATTS HOLDING POWER CONSUMPTION, COMPLETE WITH DISCONNECT SWITCH, TRANSFORMER AND END SWITCH KITS, SIMILAR TO BELIMO NF24-SR.
CIRCUIT SETTER	BELL AND GOSSETT	СВ	HEAVY DUTY, CALIBRATED BALANCE VALVE, CAST-IRON CONSTRUCTION WITH FLANGED CONNECTIONS, BRASS DISC, STAINLESS STEEL STEM, 175 PSIG @ 250°F RATING.
EXPANSION COMPENSATOR	METRAFLEX	HP2	COMPENSATOR SHALL ACCOMMODATE ½" OF EXPANSION AND 2" OF COMPRESSION. 175 PSI WORKING PRESSURE. COMPENSATOR CONSTRUCTION: CARBON STEEL WITH MULTI-PLY 304 STAINLESS STEEL BELLOWS.
HIGH PERFORMANCE BUTTERFLY VALVE	BRAY CONTROLS	HIGH PERFORMANCE	 HIGH PERFORMANCE BUTTERFLY VALVES, ANSI CLASS 150. VALVES SHALL PROVIDE ABSOLUTE SHUT-OFF (ZERO LEAKAGE) TO FULL ANSI CLASS RATING WITH PRESSURE IN EITHER DIRECTION. BODY SHALL BE FULL LUG STYLE. VALVE SHALL PROVIDE DRIP-TIGHT-SHUT-OFF ON DEAD END SERVICE, WITH PRESSURE IN EITHER DIRECTION TO ALLOW FOR PIPING CHANGES OR EQUIPMENT REMOVAL. EXTENDED NECK SHALL ALLOW FOR PIPING INSULATION AND ACCESS TO PACKING ADJUSTMENT AND OPERATOR MOUNTING. VALVE BODY AND SEAT RETAINER RING SHALL BE CARBON STEEL, ASTM A216 GR WCB / A516 GR 70. DISC SHALL BE STAINLESS STEEL ASTM A351 GR CF8M, FOR LONG TERM CORROSION RESISTANCE. DISC SHALL BE DOUBLE OFFSET DESIGN. SEAT SHALL BE LIVE LOADED RPTFE. SHAFT SHALL BE ONE-PIECE CONTSRUCTION, 17-4PH STAINLESS STEEL. VALVES SHALL COMPLY WITH PED 97/23/EC. FOR MANUAL VALVES, PROVIDE LEVER OPERATORS UP TO 6" SIZE, AND GEAR OPERATORS FOR VALVES LARGER THAN 6".
EQUIPMENT SUPPORT RAILS	THYBAR	TEMS-3	24" HIGH EQUIPMENT SUPPORT RAIL CONSTRUCTED OF WELDED 18 GAUGE GALVANIZED STEEL SHELL, BASE PLATE AND COUNTER FLASHING WITH FACTORY INSTALLED 2"x4" WOOD NAILERS AND INTERNAL BULKHEAD REINFORCEMENT. RAIL LENGTH TO EXTEND 6" ON BOTH ENDS OF EQUIPMENT. EQUIPMENT SUPPORT RAILS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
CONDENSATE PUMP	LITTLE GIANT	VCCA-20-P	HARDWIRED AUTOMATIC CONDENSATE PUMP WITH FLOAT ACTIVATED AUXILIARY HIGH LEVEL SWITCH. ELECTRICAL: 115V/1Ø/60Hz, 1.5 AMPS, 93 WATTS, ½ HP. SHUT-OFF HEAD 20 FEET. PERFORMANCE: 70 GALLONS PER HOUR AT 5 FEET OF HEAD. PUMP SHALL BE COMPLETE WITH DISCONNECT SWITCH. PROVIDE AT ALL FAN COIL UNITS.
AC-A	MITSUBISHI	MSY-GL09NA	WALL MOUNTED DUCTLESS INDOOR UNIT. 9,000 BTUH RATED COOLING CAPACITY. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 1.0 AMPS MCA, 15 AMPS MOCP. 24.6 SEER AND 15.4 EER. UNIT SHALL BE COMPLETE WITH WALL MOUNTED WIRELESS CONTROLLER WITH LOCK DOWN BRACKET, DISCONNECT SWITCH, CONDENSATE PUMP, AND DRAIN PAN LEVEL SENSOR.
ACCU-A	MITSUBISHI	MUY-GL09NA	AIR COOLED CONDENSING UNIT. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 7 AMPS MCA, 15 AMPS MOCP. UNIT SHALL BE COMPLETE WITH: NEMA 3R DISCONNECT SWITCH AND WIND BAFFLE. R-410A REFRIGERANT. FULL CAPACITY LOW AMBIENT COOLING OPERATION DOWN TO 0°F.
AC-B	MITSUBISHI	MSY-GL12NA	WALL MOUNTED DUCTLESS INDOOR UNIT. 12,000 BTUH RATED COOLING CAPACITY. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 1.0 AMPS MCA, 15 AMPS MOCP. 24.6 SEER AND 15.4 EER. UNIT SHALL BE COMPLETE WITH WALL MOUNTED WIRELESS CONTROLLER WITH LOCK DOWN BRACKET, DISCONNECT SWITCH, CONDENSATE PUMP, AND DRAIN PAN LEVEL SENSOR.
ACCU-B	MITSUBISHI	MUY-GL12NA	AIR COOLED CONDENSING UNIT. ELECTRICAL CHARACTERISTICS: 208V/1Ø/60HZ., 7 AMPS MCA, 15 AMPS MOCP. UNIT SHALL BE COMPLETE WITH: NEMA 3R DISCONNECT SWITCH AND WIND BAFFLE. R-410A REFRIGERANT. FULL CAPACITY LOW AMBIENT COOLING OPERATION DOWN TO O°F. 2'x2' CEILING CASSETTE, 4-WAY AIRFLOW PATTERN, INDOOR UNIT WITH BUILT-IN CONDENSATE PUMP AND FRESH AIR INTAKE KNOCKOUT. UNITS SHALL BE COMPLETE WITH FRESH AIR INTAKE DUCT FLANGE KIT, DISCONNECT SWITCH,
AC-1	TRANE	TPLFY008FM140A	SPRING TYPE VIBRATION ISOLATORS, AND TAC-YT53CRAU-J REMOTE CONTROLLER AND PAC-UKPR BACNET INTERFACE. EACH UNIT SHALL HAVE 20 CFM OUTSIDE AIR. PERFORMANCE: 315 CFM, 8,000 BTUH COOLING CAPACITY AT 80°F DB/67°F WB EAT AND 95°F AMBIENT, 9,000 BTUH HEATING CAPACITY AT 70°F DB/60°F WB EAT AND 5° AMBIENT. ELECTRICAL: 208V/1¢/60Hz, .28 AMPS.
AC-2	TRANE	TPLFY012FM140A	2'x2' CEILING CASSETTE, 4-WAY AIRFLOW PATTERN, INDOOR UNIT WITH BUILT-IN CONDENSATE PUMP AND FRESH AIR INTAKE KNOCKOUT. UNITS SHALL BE COMPLETE WITH FRESH AIR INTAKE DUCT FLANGE KIT, DISCONNECT SWITCH, SPRING TYPE VIBRATION ISOLATORS, AND TAC-YT53CRAU-J REMOTE CONTROLLER AND PAC-UKPR BACNET INTERFACE REFER TO VENTILATION SCHEDULE FOR OUTSIDE AIR. PERFORMANCE: 335 CFM, 12,000 BTUH COOLING CAPACITY AT 80° DB/67°F WB EAT AND 95°F AMBIENT, 13,500 BTUH HEATING CAPACITY AT 70°F DB/60°F WB EAT AND 5° AMBIENT. ELECTRICAL: 208V/1¢/60Hz, .29 AMPS.
AC-3	TRANE	TPLFY015FM140A	2'x2' CEILING CASSETTE, 4-WAY AIRFLOW PATTERN, INDOOR UNIT WITH BUILT-IN CONDENSATE PUMP AND FRESH AIR INTAKE KNOCKOUT. UNITS SHALL BE COMPLETE WITH FRESH AIR INTAKE DUCT FLANGE KIT, DISCONNECT SWITCH, SPRING TYPE VIBRATION ISOLATORSAND TAC-YT53CRAU-J REMOTE CONTROLLER AND PAC-UKPR BACNET INTERFACE. EACH UNIT SHALL HAVE 165 CFM OUTSIDE AIR. PERFORMANCE: 390 CFM, 15,000 BTUH COOLING CAPACITY AT 80°F DB/67°F WB EAT AND 95°F AMBIENT, 17,000 BTUH HEATING CAPACITY AT 70°F DB/60°F WB EAT AND 5° AMBIENT. ELECTRICAL: 208V/1¢/60Hz, .35 AMPS.
HP-1	TRANE	TURYH1203AN40AN	10.0 TON OUTDOOR VRF HEAT RECOVERY SYSTEM COMPLETE WITH NEMA 3R DISCONNECT SWITCH, BC CONTROLLER, TCMBG0108 BRANCH BOX, BRANCH JOINTS, BALL VALVES AND REDUCERS. 22.05 SEER, 12.65 EER, AND 3.8 HSPF. R-410A. RATED COOLING PERFORMANCE: 120,000 BTUH. RATED HEATING PERFORMANCE: 135,000 BTUH. SYSTEM ELECTRICAL: 208V/3φ/60Hz, 47 MCA, AND 70 AMPS MOCP.
EH-A	BERKO	FRC1512F	ARCHITECTURAL, HEAVY-DUTY, FAN FORCED WALL HEATER. CAPACITY: 1500 WATTS, 5120 BTUH, 100 CFM. ELECTRICAL: 120V/1Ø, 12.5 AMPS. FINISH SHALL BE NORTHERN WHITE. HEATER SHALL HAVE: CONCEALED TAMPER-PROOF THERMOSTAT, MANUAL RESET THERMAL CUT-OUT, CONCEALED POWER ON/OFF SWITCH, BACK BOX, SURFACE MOUNTING FRAME, DISCONNECT SWITCH, AND 14 GAUGE SECURITY FRONT COVER.
EH-B	BERKO	FRC4024F	ARCHITECTURAL, HEAVY-DUTY, FAN FORCED WALL HEATER. CAPACITY: 3000 WATTS, 10235 BTUH, 100 CFM. ELECTRICAL 208V/1Ø, 14.4/7.2 AMPS. FINISH SHALL BE NORTHERN WHITE. HEATER SHALL HAVE: CONCEALED TAMPER-PROOF THERMOSTAT, MANUAL RESET THERMAL CUT-OUT, CONCEALED POWER ON/OFF SWITCH, BACK BOX, SURFACE MOUNTING FRAME, DISCONNECT SWITCH, AND 14 GAUGE SECURITY FRONT COVER.
UH	VULCAN	HV-125A	HOT WATER UNIT HEATER. HEATING CAPACITY: 24.8 MBH, 580 CFM, 2.5 GPM, 2.2 FT WATER PRESSURE DROP, AND 102°F FINAL AIR TEMPERATURE. RATINGS BASED ON 200° EWT AND 60°F EAT. ELECTRICAL: 2 SPEED MOTOR, 120V/1Ø, 1.2 AMPS. COMPLETE WITH: MOUNTING BRACKET, OSHA FAN GUARD, NON-FUSED DISCONNECT SWITCH, "AUTO/OFF/FAN SWITCH" LINE VOLTAGE THERMOSTAT, STRAP-ON AQUASTAT, AND AIR DEFLECTION LOUVER.
P-1A P-1B	BELL AND GOSSET	ecocirc XL 70-145	HIGH EFFICIENCY LARGE WET ROTOR CIRCULATOR WITH ELECTRONIALLY COMMUTATED PERMENANT MAGNET MOTOR. PUMP SHALL HAVE CAPACITY OF 85.0 GPM. PUMP SHALL HAVE TOTAL DYNAMIC HEAD OF 42'. PREMIUM EFFICIENCY MOTOR SHALL BE 2 HP. ELECTRICAL: 208V/1¢/60Hz. PUMP SHALL BE FURNISHED WITH A NEMA 1 DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE PURCHASED BE MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
P-2A P-2B	BELL AND GOSSET	ecocirc XL 65-130	HIGH EFFICIENCY LARGE WET ROTOR CIRCULATOR WITH ELECTRONIALLY COMMUTATED PERMENANT MAGNET MOTOR. PUMP SHALL HAVE CAPACITY OF 20.0 GPM. PUMP SHALL HAVE TOTAL DYNAMIC HEAD OF 35'. PREMIUM EFFICIENCY MOTOR SHALL BE 1 HP. ELECTRICAL: 208V/1¢/60Hz. PUMP SHALL BE FURNISHED WITH A NEMA 1 DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE PURCHASED BE MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.



DESIGNATION	RTU-1	RTU-2	RTU-3
AREA SERVED	REFER TO PLAN	REFER TO PLAN	REFER TO PLAN
MODEL NUMBER	OAKE144A3	OAKE180A3	OAKE144A3
	12	15	12
WEIGHT OF UNIT (POUNDS)	4,214	4,237	4,179
DESIGN DATA:			
SUPPLY AIR (CFM)	2,840	3,045	2,175
OUTDOOR AIR (CFM)	2,840	3,045	2,175
CONDENSER/COMPRESSOR DATA:			
COMPRESSOR No./TYPE	FOUR-STAGE	DIGITAL SCROLL FOUR-STAGE	DIGITAL SCROLL FOUR-STAGE
REFRIGERANT TYPE	R-410A	R-410A	R-410A
COMPRESSOR (RLA) EACH	20.4	24	20.4
No. OF FANS	3	3	3
FAN MOTOR HP	1.23	1.59	1.01
COIL FACE AREA (SQ. FT.)	2/12	30	30
AMBIENT TEMPERATURE (°F)	95	95	95
FILTER DATA:			
ТҮРЕ	MERV-8/MERV-13	MERV-8/MERV-13	MERV-8/MERV-13
RETURN AIR (QTY. / SIZE)	(4) 16x20x2	(4) 16x20x2	(4) 16x20x2
	(4) 16x20x2	(4) 16x20x2	(4) 16x20x2
EVAPORATOR COIL DATA: FACE AREA (SQ. FT.)	10	10	10
No. OF ROWS/FPI	4/12	10 4/12	4/12
EAT (°F) DB/WB	79.4/66.2	79.1/66.0	78.6/65.7
LAT (°F) DB/WB	50.9/50.4	48.3/48.0	45.6/45.5
FACE VELOCITY (FPM)	284	304	217
TOTAL/SENSIBLE CAP. (MBH) ELECTRIC HEATING DATA:	128.8/85.5	153.8/99	120.7/76.4
	51.15	51.15	34.10
CAPACITY (KW)	15	15	10
EAT/LAT (°F) DB	53.1/69.8	54.5/70.1	56.0/70.5
CAPACITY CONTROL	SCR MODULATING	SCR MODULATING	SCR MODULATING
HOT GAS REHEAT DATA:			
CAPACITY (MBH) EAT/LAT (°F) DB	58.9	71.7 48.3/70	57.6
ENERGY RECOVERY WHEEL DATA:		40.0110	45.0770
EXHAUST AIR (CFM)	3,033	3,604	2,362
OUTDOOR AIR (CFM)	3,033	3,244	2,362
PRESSURE DROP (IN H ₂ O)	0.84	0.90	0.65
MOTOR HP	0.17	0.17	0.17
MOTOR FLA (AMPS) ENERGY RECOVERY WHEEL SUMM		0.7	0.7
OUTDOOR AIR EAT (°F) DB/WB	95.0/75.0	95.0/75.0	95.0/75.0
RETURN AIR EAT (°F) DB/WB	75.0/63.0	75.0/63.0	75.0/63.0
WHEEL LEAVING T (°F) DB/WB	79.4/66.1	79.1/66.0	78.6/65.7
CAPACITY RECOVERED (MBH)	92.48	100.66	74.45
EFFECTIVENESS (TOTAL/SENS.)	0.73/0.72	0.74/0.79	0.77/0.81
ENERGY RECOVERY WHEEL WINTE OUTDOOR AIR EAT (°F) DB/WB	0.0/0.0	0.0/0.0	0.0/0.0
RETURN AIR EAT (°F) DB/WB	70.0/53.0	70.0/53.0	70.0/53.0
WHEEL LEAVING T (°F) DB/WB	53.1/43.0	54.5/43.8	56.0/44.8
CAPACITY RECOVERED (MBH)	204.95	224.88	164.72
EFFECTIVENESS (TOTAL/SENS.)	0.77/0.73	0.72/0.77	0.77/0.81
CAPACITY (MBH)	2.4	97.4	2.4
EAT/LAT (°F) DB	53.1/77.4	54.5/82.5	56/87.5
SUPPLY FAN DATA:	I	1	1
SUPPLY AIRFLOW (CFM)	2,840	3,045	2,175
ESP/TSP (IN H ₂ O)	1.25/2.45	1.25/0.91	1.25/2.10
BHP/HP	1.57/3.0	1.74/3.0	1.01/1.5
RPM FLA (AMPS)	1,552	1,592	1,646
EXHAUST FAN DATA:			1
EXHAUST AIRFLOW (CFM)	2,840	3,045	2,175
ESP/TSP (IN H ₂ O)	0.75/1.83	0.75/2.0	0.75/1.62
BHP/HP	1.23/2.0	1.59/3.0	0.86/1.5
RPM FLA (AMPS)	6	1,307	1,267
		0	4.0
VOLTS/Ø/Hz	208/3/60	208/3/60	208/3/60
MCA/MOCP (AMPS)	115.0/125.0	125.1/150.0	93.3/100
NOTES:			
 UNITS BASED ON TRANE PROVIDE (1) COMPLETE EXTRA SET OF F UNITS SHALL BE COMPLETE WITH: 	ILTERS FOR EACH UNIT.		
ONNESS SHALL BE COMPLETE WITH: NON-FUSED DISCONNECT SWITCH FACTORY POWERED 115 VOLT GFI OUTLI	ΞT		
	MOTORS SUITABLE FOR VARIABLE SPEEL	AND TORQUE APPLICATIONS.	

STAINLESS STEEL DRAIN PANS.
BACNET IP INTERFACE. PROVIDE FACTORY START-UP SUPPORT FOR INTERFACE WITH THE BUILDING MANAGEMENT SYSTEM.

• 5 YEAR COMPRESSOR PARTS WARRANTY. • LOW AMBIENT CONTROL.

• 24" HIGH ROOF CURB • TRANE UC600 CONTROLS WITH BACNET.

WITH A OVERALL HEIGHT OF 36".

CONDENSER HAILGUARD.
ROOF CURBS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
ALL UNITS SHALL BE PROVIDED WITH VARIABLE FREQUENCY DRIVES.

6. RTU-1 SHALL BE SUPPLIED CAMBRIDGEPORT CUSTOM ROOF CURB OR APPROVED EQUAL. ROOF CURB SHALL HAVE ONE-PIECE WELDED CONSTRUCTION, BE MADE OF HEAVY GAUGE GALVANIZED STEEL, GALVANIZED COMPOUND COATED WELDS, GASKETING FOR UNIT TO CURB SEALING, FULLY INSULATED AND HAVE SUPPLY TRANSITION AND RETURN PLENUM

DESIGNATION	EF-1	EF-2
LOCATION	ROOF	ROOF
AREA SERVED	REFER TO PLANS	REFER TO PLANS
MODEL	G-100-VG	G-095-VG
CFM	600	600
BHP	0.1	0.15
HP	1/4	1/6
RPM	1,238	1,689
ESP (IN H ₂ O)	0.45"	0.43"
VOLTS/Ø	115/1	115/1
FLA (AMPS)	3.8	2.8
MCA/MOCP (AMPS)	4.8/15	3.5/15
SOUND DATA (dBA/SONES)	49/5.2	59/10.4

1. FANS BASED ON GREENHECK

GENERAL CONTRACTOR.

 ALL SINGLE PHASE MOTORS TO INCLUDE THERMAL OVERLOAD.
 ALL FANS SHALL BE PROVIDED WITH MOTORIZED BACKDRAFT DAMPERS CONSTRUCTED OF A GALVANIZED STEEL FRAME AND ALUMINUM BLADES WITH SEALS. MOTORIZED DAMPER VOLTAGE SHALL BE 120 VOLTS. MOTORIZED DAMPER SHALL BE COMPLETE WITH END SWITCH AND DISCONNECT SWITCH.

- 4. ALL EXHAUST FANS SHALL BE PROVIDED WITH THE FOLLOWING: VARI-GREEN EC MOTOR WITH MOUNTED POTENTIOMETER DIAL, BIRDSCREEN, HOOD HASPS, CURB SEAL AND 18" HIGH ALUMINUM ROOF CURB WITH DAMPER TRAY.
- ALL FANS SHALL BE PROVIDED WITH DISCONNECT SWITCH AT UNIT FOR SERVICE. OUTDOOR DISCONNECT SWITCHES SHALL BE NEMA 3R.
 ROOF CURBS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY

HEATING AND COOLING MINIMUM PIPE INSULATION COMMERCIAL (THICKNESS IN INCHES)

	NOMINAL PIPE DIAMETER							
FLUID	< 1-1/2"	1-1/2" < 4.0"	4.0" to 8.0"	8.0"≤				
HOT WATER	1.5	2.0	2.0	2.0				
REFRIGERANT	1.0	1.0	1.0	1.0				
INTERIOR CONDENSATE AND PUMP DISCHARGE	1.0	1.0	1.0	1.0				
CHILLED WATER	1.5	1.5	1.5	1.5				
NOTES		·	·					

 NOTES:
 UNLESS OTHERWISE NOTED ALL INTERIOR PIPE COVERING SHALL BE FIBERGLASS PREFORMED PIPE AND PREMOLDED FITTING INSULATION WITH: FIRE RETARDANT VAPOR BARRIER JACKET, 0.23 K-FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = 25, SMOKE DEVELOPED = 50.
 ALL INTERIOR AND EXTERIOR PIPING, FITTINGS, AND VALVES SHALL BE INSTALLED WITH 20 MIL THICK, WHITE PVC JACKETING. PVC JACKETING SHALL BE HIGH IMPACT RESISTANT, UV RESISTANT COMPLYING WITH ASTM D 1784, CLASS 16354-C. PROVIDE FACTORY FABRICATED FITTING AND VALVE

- COVERS WHERE AVAILABLE. REFRIGERANT AND CONDENSATE PIPE INSULATION SHALL BE FLEXIBLE ELASTOMERIC FOAM SIMILAR TO ADMACHEN EXTERIOR INSUL ATIONS TO BE CONTENT IN THE REPORT OF THE PIPE INSULATION OF THE PI
- SIMILAR TO ARMAFLEX. EXTERIOR INSULATIONS TO BE COATED WITH ARMAFLEX WB OR BE INSTALLED WITH PVC JACKETING. 4. FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH PVC
- FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH JACKETING EQUAL IN THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION.

MINIMUM DUCT INSULATION

ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND ABOVE CEILINGS AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION.

EXCEPTIONS:

 WHEN LOCATED WITHIN EQUIPMENT.
 WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F (8°C).

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS- EMBEDDED FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

NOTE:

DUCT INSULATION, COVERINGS AND LINING MATERIALS AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50, IN ACCORDANCE WITH 2020 MECHANICAL CODE OF NEW YORK STATE SECTION 604.3.

MINI	MUM HAN	IGER SIZE	ES FOR RO	UND DU
DIAMETER	MAXIMUM SPACING	WIRE DIAMETER	ROD	STR
<u><</u> 10"	12'		1/4"	1" X 2
	12'		1/4"	1" X 2
19" - 24"	12'		1/4"	1" X 2
25" - 36"	12'		3/8"	1" X 2
37" - 50"	12'		TWO 3/8"	TWO 1" >
51" - 60"	12'		TWO 3/8"	TWO 1" >
61" - 84"	12'		TWO 3/8"	TWO 1" >

NOTES:

1. STRAPS AND RODS ARE GALVANIZED STEEL 2. TABLE ALLOWS FOR CONVENTIONAL MARKET PROPERTY

2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS ONE Ib/sf OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

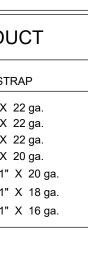
						VE	ENTILATI	ON SCHEDUL	E FIRST FLOOR									
	Gross Area	Ra	Ventilation based on		Occupanct	Calculated	People	Rp	Ventilation based		Total OA		Zone Air Distribution	Zone OA	Ventilation	Exhaust		Exhaust
Space Name	GIUSS Alea	Па	Net Floor Area		Density	Occupants (Pz)	Used	Cfm/Person	on People		Ventilation (Vbz)		Effectiveness (Ez)	Required (Voz)	Provided	Airflow Rates	Required	Provided
	sqft	CFM/sqft	CFM		#/1	000 sqft			CFM		CFM			CFM	CFM	CFM/sqft	CFM	CFM
Class 101	650	0.12	78	+	35	22.8	27.0	10	270	=	348	Х	0.8	435	435	-	-	-
Class 102	710	0.12	86	+	40	28.4	28.0	10	280	=	366	х	0.8	458	460	-	-	-
Class 103	545	0.12	66	+	40	21.8	22.0	10	220	=	286	х	0.8	358	360	-	-	-
Class 104	475	0.12	57	+	40	19.0	19.0	10	190	=	247	х	0.8	309	310	-	-	-
Class 105	780	0.12	94	+	30	23.4	30.0	10	300	=	394	х	0.8	493	495	-	-	-
Class 106	560	0.12	68	+	40	22.4	22.0	10	220	=	288	х	0.8	360	360	-	-	-
Class 107	545	0.12	66	+	40	21.8	22.0	10	220	=	286	х	0.8	358	360	-	-	-
SGI 108	230	0.12	28	+	40	9.2	10.0	10	100	=	128	х	0.8	160	160	-	-	-
SGI 109	200	0.12	24	+	40	8.0	8.0	10	80	=	104	х	0.8	130	130	-	-	-
SGI 113	130	0.12	16	+	40	5.2	5.0	10	50	=	66	Х	0.8	83	85	-	-	-
SGI 114	130	0.12	16	+	40	5.2	5.0	10	50	=	66	х	0.8	83	85	-	-	-
SGI 115	130	0.12	16	+	40	5.2	5.0	10	50	=	66	х	0.8	83	85	-	-	-
Toil 117	70	-	-	+	-	-	-	-	-	=	-	х	-	-	-	-	75	75
Toil 118	60	-	-	+	-	-	-	-	-	=	-	х	-	-	-	-	75	75
Toil 119	60	-	-	+	-	-	-	-	-	=	-	х	-	-	-	-	75	75
Jan 120	45	-	-	+	-	-	-	-	-	=	-	х	-	-	-	-	75	75
Toil 122	60	-	-	+	-	-	-	-	-	=	-	х	-	-	-	-	75	75
Toil 123	60	-	-	+	-	-	-	-	-	=	-	х	-	-	-	-	75	75
Toil 124	60	-	-	+	-	-	-	-	-	=	-	х	-	_	-	-	75	75
Toil 125	60	-	-	+	-	-	-	-	-	=	-	х	-	-	-	-	75	75
Elev Lobby	365	0.06	22	+	30	11.0	12.0	7.5	90	=	112	х	0.8	140	140	-	-	-
Corridor C102	410	0.06	-	+	-	-	-	-	-	=	25	х	0.8	31	30	-	-	-
	·	•			•	VEI	TILATIO	N SCHEDULE	SECOND FLOO	R			-					•
			Ventilation based on		Occupanct	Calculated			Ventilation based		Total OA		Zone Air Distribution	Zone OA	Ventilation	Exhaust	Exhaust	Exhaust
Space Name	Gross Area	Ra	Net Floor Area		Density	Occupants (Pz)			on People		Ventilation (Vbz)		Effectiveness (Ez)	Required (Voz)	Provided	Airflow Rates	Required	Provided
Space Name							Used	Cfm/Person										
	sqft	CFM/sqft	CFM		#/1000 sqft				CFM		CFM			CFM	CFM	CFM/sqft	CFM	CFM
Class 201	sqft 635	CFM/sqft 0.12	CFM 77	+	#/1000 sqft 40	25.4	25.0	10	CFM 250	=	CFM 327	x	0.8	CFM 409	CFM 410	CFM/sqft -	CFM -	CFM -
Class 201 Class 202		· · · · ·		+++		25.4 22.6				=		x x	0.8			CFWsqft - -	CFM - -	CFM - -
	635	0.12	77	-	40		25.0	10	250		327			409	410	-	-	-
Class 202	635 565	0.12 0.12	77 68	+	40 40	22.6	25.0 23.0	10 10	250 230	=	327 298	Х	0.8	409 373	410 375	-	-	-
Class 202 Class 203	635 565 470	0.12 0.12 0.12	77 68 57	+ +	40 40 40	22.6 18.8	25.0 23.0 19.0	10 10 10	250 230 190	=	327 298 247	x x	0.8 0.8	409 373 309	410 375 310	-		
Class 202 Class 203 Office 204	635 565 470 100	0.12 0.12 0.12 0.06	77 68 57 6	+ + + +	40 40 40 5	22.6 18.8 0.5	25.0 23.0 19.0 2.0	10 10 10 5	250 230 190 10	= = =	327 298 247 16	X X X	0.8 0.8 0.8	409 373 309 20	410 375 310 20	- - - -	- - - -	- - - -
Class 202 Class 203 Office 204 Office 205	635 565 470 100 100	0.12 0.12 0.12 0.06 0.06	77 68 57 6 6	+ + + + +	40 40 40 5 5 5	22.6 18.8 0.5 0.5	25.0 23.0 19.0 2.0 2.0	10 10 10 5 5 5	250 230 190 10 10	= = =	327 298 247 16 16	X X X X	0.8 0.8 0.8 0.8 0.8	409 373 309 20 20	410 375 310 20 20	- - - - -	- - - - -	- - - - -
Class 202 Class 203 Office 204 Office 205 Class 206	635 565 470 100 100 515	0.12 0.12 0.12 0.06 0.06 0.12	77 68 57 6 6 6 6 62	+ + + + + + + +	40 40 40 5 5 5 40	22.6 18.8 0.5 0.5 20.6	25.0 23.0 19.0 2.0 2.0 2.0 21.0	10 10 10 5 5 5 10	250 230 190 10 10 210	= = = =	327 298 247 16 16 272	X X X X X	0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340	410 375 310 20 20 340	- - - - - -	- - - - - -	- - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207	635 565 470 100 100 515 815	0.12 0.12 0.06 0.06 0.12 0.12 0.12	77 68 57 6 6 6 6 62 98	+ + + + + + +	40 40 40 5 5 5 40 30	22.6 18.8 0.5 0.5 20.6 24.5	25.0 23.0 19.0 2.0 2.0 21.0 30.0	10 10 10 5 5 5 10 10	250 230 190 10 10 210 300		327 298 247 16 16 272 398	X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498	410 375 310 20 20 340 500	- - - - - - - -	- - - - - - -	- - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209	635 565 470 100 100 515 815 815 540 255	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12	77 68 57 6 6 6 6 62 98 65 31	+ + + + + + + + +	40 40 5 5 40 30 40 40 40	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0	10 10 10 5 5 5 10 10 10 10	250 230 190 10 10 210 300 220 100		327 298 247 16 16 272 398 285	x x x x x x x x x x x	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164	410 375 310 20 20 340 500 360	- - - - - - - - -	- - - - - - - - -	- - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210	635 565 470 100 515 815 540 255 860	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 6 62 98 65 31 104	+ + + + + + + + + + +	40 40 5 5 40 30 40 40 40 30	22.6 18.8 0.5 20.6 24.5 21.6 10.2 25.8	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0	10 10 10 5 5 5 10 10 10 10 10 10	250 230 190 10 10 210 300 220 100 300		327 298 247 16 16 272 398 285 131 404	X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505	410 375 310 20 20 340 500 360 165 505		- - - - - - - - - -	- - - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 211	635 565 470 100 515 815 540 255 860 830	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 6 62 98 65 31 104 100	+ + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 40 30 30 30	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0	10 10 10 5 5 5 10 10 10 10 10	250 230 190 10 10 210 300 220 100 300 300 300		327 298 247 16 16 272 398 285 131 404 400	X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 20 340 498 357 164 505 500	410 375 310 20 20 340 500 360 165 505 500		- - - - - - - - - - - - -	- - - - - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 211 Class 212	635 565 470 100 515 815 540 255 860	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 6 62 98 65 31 104	+ + + + + + + + + + + +	40 40 5 5 40 30 40 40 40 30	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0	10 10 10 5 5 5 10 10 10 10 10 10 10	250 230 190 10 210 300 220 100 300 300 300 300		327 298 247 16 16 272 398 285 131 404	X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505	410 375 310 20 20 340 500 360 165 505		- - - - - - - - - - - - - -	- - - - - - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 211 Class 212 SGI 213	635 565 470 100 515 815 540 255 860 830 825 180	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22	+ + + + + + + + + + + + + + +	40 40 5 5 40 30 40 40 40 30 30 30 30	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0	10 10 10 5 5 5 10 10 10 10 10 10 10 10 10 10 10	250 230 190 10 210 300 220 100 300 300 300 300 70		327 298 247 16 16 272 398 285 131 404 400 399 92	X X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115	410 375 310 20 20 340 500 360 165 505 500 500 115		- - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214	635 565 470 100 100 515 815 540 255 860 830 825 180	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 99	+ + + + + + + + + + + + + + +	40 40 5 5 40 30 40 40 40 30 30 30 30 40 40	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0	10 10 10 5 5 5 10 10 10 10 10 10 10 10 10	250 230 190 10 210 300 220 100 300 300 300 300		327 298 247 16 16 272 398 285 131 404 400 399	X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499	410 375 310 20 20 340 500 360 165 505 500 500		- - - - - - - - - - - - - - - - - - -	
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 211 Class 212 SGI 213 SGI 214 Toil 215	635 565 470 100 100 515 815 540 255 860 830 825 180 45	0.12 0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 22 22	+ + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 30 30 30 30 40 40 40 40	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2 7.2 7.2	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0	10 10 10 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10	250 230 190 10 210 300 220 100 300 300 300 300 70 70 70		327 298 247 16 16 272 398 285 131 404 400 399 92 92 92	X X X X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115	410 375 310 20 20 340 500 360 165 505 500 500 115 115		- - - - - - - - - - - - - - 75	- - - - - - - - - - - - - - - 75
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214 Toil 215 Toil 216	635 565 470 100 100 515 815 540 255 860 830 825 180 45	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 6 6 62 98 65 31 104 100 99 22 22 22 -	+ + + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 40 30 30 30 30 40 40 40 40 -	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2 7.2 -	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 -	10 10 10 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	250 230 190 10 210 300 220 100 300 300 300 300 70 70 70 70 -		327 298 247 16 16 272 398 285 131 404 400 399 92 92 92 -	X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 -	410 375 310 20 20 340 500 360 165 505 500 500 115 115 -		- - - - - - - - - - - - - - - 75 75	- - - - - - - - - - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 211 Class 212 SGI 213 SGI 214 Toil 215 Toil 217	635 565 470 100 100 515 815 540 255 860 830 825 180 45 55	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 22 - -	+ + + + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 30 30 30 30 40 40 40 40 - -	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2 7.2 - -	25.0 23.0 19.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 -	10 10 10 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	250 230 190 10 10 210 300 220 100 300 300 300 300 70 70 70 70 70 70		327 298 247 16 16 272 398 285 131 404 400 399 92 92 92 92 - -	X X X X X X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 115 - -	410 375 310 20 20 340 500 360 165 505 500 500 115 115 - -		- - - - - - - - - - - - - 75 75 75	- - - - - - - - - - - - 75 75
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214 Toil 215 Toil 216 Toil 217 Toil 218	635 565 470 100 100 515 815 540 255 860 830 825 180 45 55 55	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 22 - - - - -	+ + + + + + + + + + + + + + + + + + +	40 40 5 5 40 30 40 40 40 30 30 30 30 30 40 40 40 40 5 - - -	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2 7.2 - - - -	25.0 23.0 19.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 -	10 10 10 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	250 230 190 10 210 300 220 100 300 300 300 300 300 70 70 70 70 70 70 70 70		327 298 247 16 16 272 398 285 131 404 400 399 92 92 92 92 - - -	X X X X X X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 - - - -	410 375 310 20 20 340 500 360 165 505 500 500 115 115 - - - -		- - - - - - - - - - - - - - 75 75 75 75	- - - - - - - - - - - - - - - - 75 75 75 75
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214 Toil 215 Toil 216 Toil 217 Toil 218 Toil 219	635 565 470 100 100 515 815 540 255 860 830 825 180 45 55 55 55	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 22 -	+ + + + + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 40 30 30 30 30 30 40 40 40 40 40 5 - - - - - - - - -	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2 7.2 - - - - - - - -	25.0 23.0 19.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 -	10 10 10 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	250 230 190 10 210 300 220 100 300 300 300 300 300 70 70 70 70 70 70 70 70 70 70 70 70		327 298 247 16 16 272 398 285 131 404 400 399 92 92 92 92 - - - - - - -	X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 115 - - - - - - - - - -	410 375 310 20 20 340 500 360 165 505 500 500 115 115 - - - - - - - -		- - - - - - - - - - - - - - - - 75 75 75 75 75	- - - - - - - - - - - - - - - - 75 75 75 75 75
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214 Toil 215 Toil 216 Toil 217 Toil 218 Toil 219 Toil 220	635 565 470 100 515 815 540 255 860 830 825 180 45 55 55 55 55	0.12 0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 - <	+ + + + + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 40 30 30 30 30 40 40 40 40 - - - - - - - - - - - - -	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2 7.2 - - - - - - - - - - - -	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 7.0 7.0 7.0 - - - - -	10 10 10 5 5 10 - - - - - - - - - - - - - - - - <tr td=""> <</tr>	250 230 190 10 10 210 300 220 100 300 300 300 300 70 70 70 70 70 70 70 70 70 70 70 70 7		327 298 247 16 16 272 398 285 131 404 400 399 92 92 92 92 - - - - - - - - - - -	X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 115 - - - - - - - - - - - - -	410 375 310 20 20 340 500 360 165 505 500 500 115 115 - - - - - - - - - -		- - - - - - - - - - - - - - - - - 75 75 75 75 75 75	- - - - - - - - - - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214 Toil 215 Toil 216 Toil 217 Toil 218 Toil 219 Toil 220 Toil 221	635 565 470 100 515 815 540 255 860 830 825 180 45 55 55 55 55 55 55 55	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 22 -	+ + + + + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 40 40 30 30 30 40 40 40 40 - - - - - - - - - - - - -	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.9 24.8 7.2 7.2 - - - - - - - - - - - - -	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	10 10 10 5 5 10 - - - - - - - - - - - - - - - - - -	250 230 190 10 10 210 300 220 100 300 300 300 300 70 70 70 70 70 70 70 70 70 70 70 70 7		327 298 247 16 16 272 398 285 131 404 400 399 92 92 -	X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 115 - - - - - - - - - - - - -	410 375 310 20 20 340 500 360 165 505 500 500 115 115 - - - - - - - - - - - - -		- - - - - - - - - - - - - - - - 75 75 75 75 75	- - - - - - - - - - - - - - - - - 75 75 75 75 75 75 75 75 75
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214 Toil 215 Toil 216 Toil 217 Toil 218 Toil 219 Toil 220 Toil 221 Security 222	635 565 470 100 515 815 540 255 860 830 825 180 45 55	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 - <	+ + + + + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 40 40 30 30 30 40 40 40 40 40 5 5	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.8 7.2 7.2 7.2 - - - - - - - 0.5	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 7.0 7.0 7.0 - - - - -	10 10 10 5 5 10 - - - - - - 5	250 230 190 10 10 210 300 220 100 300 300 300 300 70 70 70 70 70 70 70 70 70 70 70 70 7		327 298 247 16 16 272 398 285 131 404 400 399 92 92 - - - - - - - - - - - - - - - 11	X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 115 - - - - - - - - - 14	410 375 310 20 20 340 500 360 165 505 500 500 115 115 - - - - - - - 15		- - - - - - - - - - - - - - - - 75 75 75 75 75 75 75 75 75 75 75 75 75	- - - - - - - - - - - - - - - - - - -
Class 202 Class 203 Office 204 Office 205 Class 206 Class 207 Class 208 SGI 209 Class 210 Class 212 SGI 213 SGI 214 Toil 215 Toil 216 Toil 217 Toil 218 Toil 219 Toil 220 Toil 221	635 565 470 100 515 815 540 255 860 830 825 180 45 55 55 55 55 55 55 55 55	0.12 0.12 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	77 68 57 6 62 98 65 31 104 100 99 22 22 -	+ + + + + + + + + + + + + + + + + + +	40 40 40 5 5 40 30 40 40 40 40 30 30 30 40 40 40 40 - - - - - - - - - - - - -	22.6 18.8 0.5 0.5 20.6 24.5 21.6 10.2 25.8 24.9 24.9 24.8 7.2 7.2 - - - - - - - - - - - - -	25.0 23.0 19.0 2.0 2.0 21.0 30.0 22.0 10.0 30.0 30.0 30.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	10 10 10 5 5 10 - - - - - - - - - - - - - - - - <tr td=""> <</tr>	250 230 190 10 10 210 300 220 100 300 300 300 300 70 70 70 70 70 70 70 70 70 70 70 70 7		327 298 247 16 16 272 398 285 131 404 400 399 92 92 -	X X X X X X X X X X X X X X	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	409 373 309 20 20 340 498 357 164 505 500 499 115 115 115 - - - - - - - - - - - - -	410 375 310 20 20 340 500 360 165 505 500 500 115 115 - - - - - - - - - - - - -		- - - - - - - - - - - - - - - - - 75 75 75 75 75 75	- - - - - - - - - - - - - - - - - - 75 75 75 75 75 75 75 75

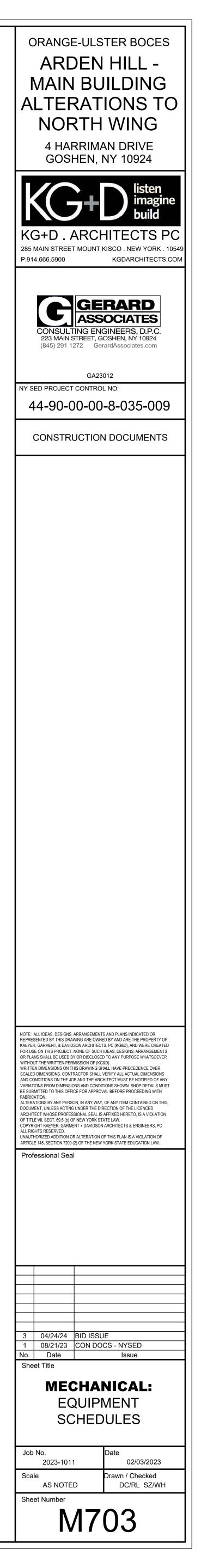
NOTES:

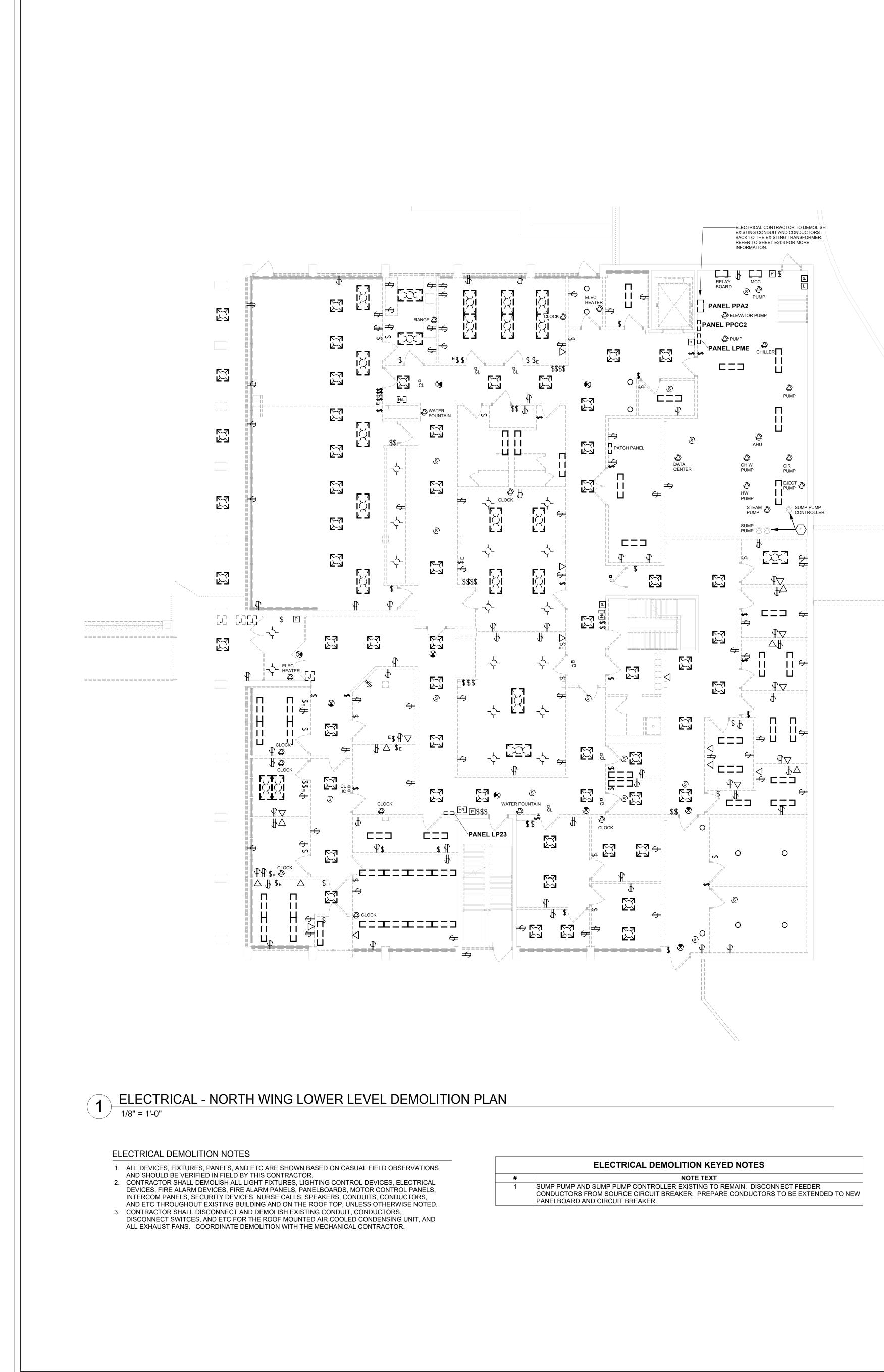
PERFORMED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR DIRECT TO THE SCHOOL DISTRICT. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL SUPPLY AND TURNOVER CONTROLS ELEMENTS REQUIRED TO BE INSTALLED IN PIPING AND/OR DUCTWORK TO THE MECHANICAL

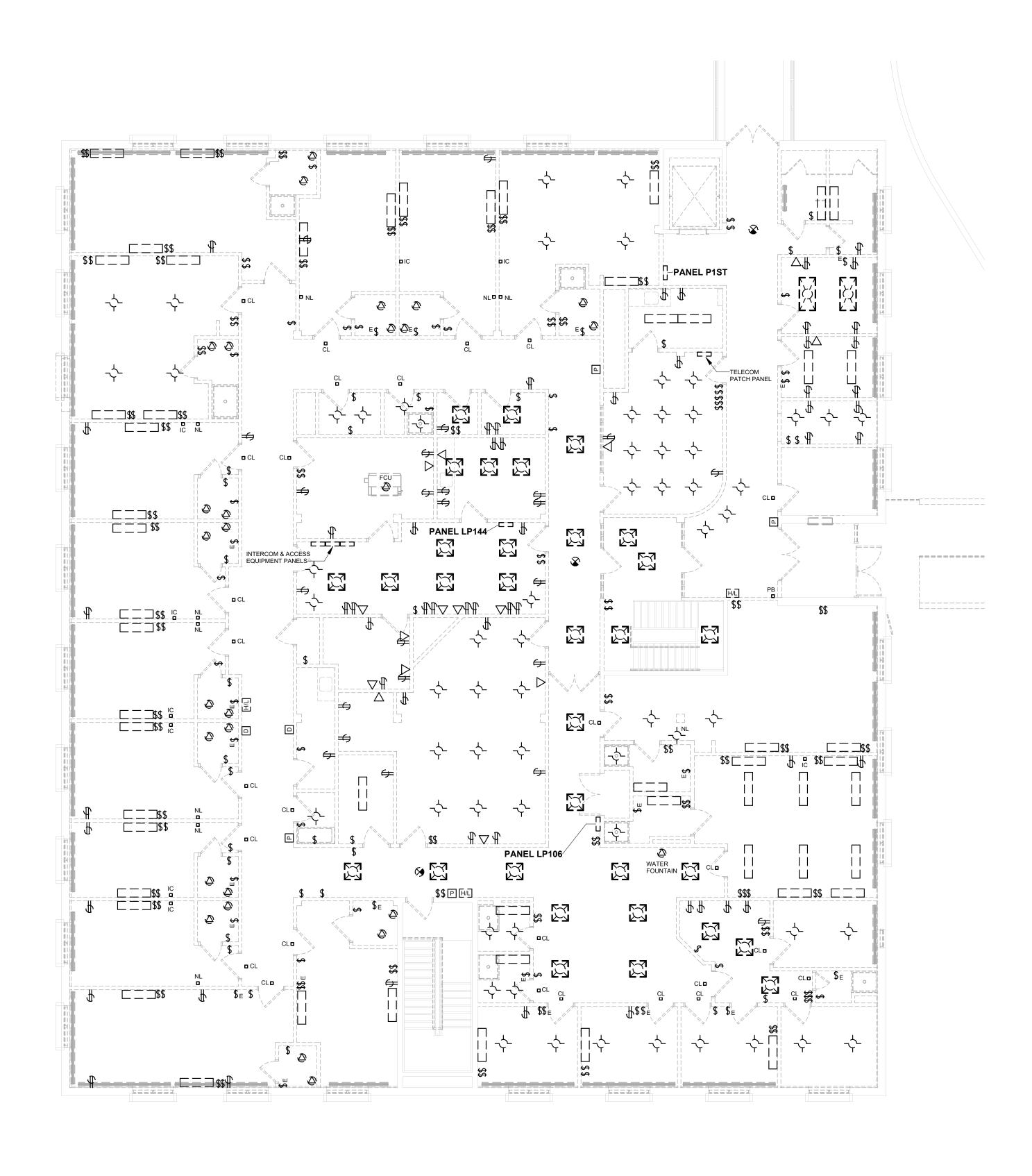
ALL WORK ASSOCIATED WITH AUTOMATIC TEMPERATURE CONTROLS SHALL BE

- CONTRACTOR WHO SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROL ELEMENTS. MECHANICAL CONTRACTOR SHALL COORDINATE.
 VERIFY ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDERING FOR ALL
- EQUIPMENT VISIBLE WITHIN SPACE OR FROM EXTERIOR OF BUILDING. ALL EQUIPMENT SHALL BE FINISHED USING MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHES UNLESS OTHERWISE NOTED.
- 3. MECHANICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN FOR WIND RESTRAINT OF ALL ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO WIND DESIGN DATA ON DRAWING \$001.





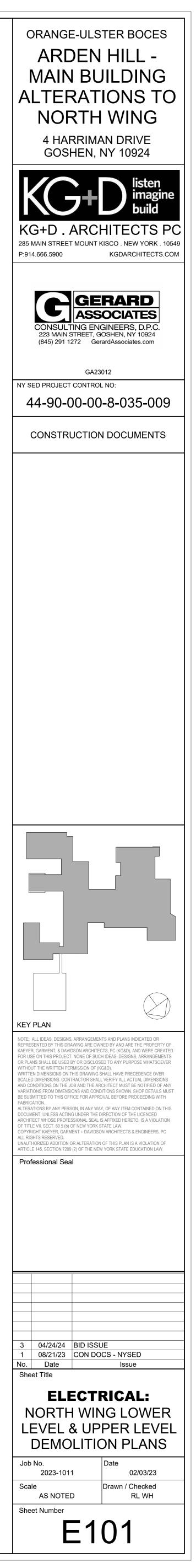






ELECTRICAL - NORTH WING UPPER LEVEL DEMOLITION PLAN

NOTES: 1.) ALL DEMOLITION WORK TO BE PERFORMED BY ABATEMENT CONTRACTOR, UNLESS NOTED OTHERWISE. REFER TO BID DOCUMENTS FOR MORE INFORMATION.



	ELECTRICAL REMOVAL SCHEDULE						
SYMBOL	DESCRIPTION						
\bigotimes	EXIT SIGN						
D	MAGNETIC DOOR HOLD						
φ	RECEPTACLE						
\$	TOGGLE SWITCH / LIGHTING CONTROL DEVICE						
\$ _E	EMERGENCY CALL DEVICE						
	INTERCOM / CALL LIGHT SYSTEM						
	PUSH BUTTON						
Р	MANUAL FIRE ALARM PULL STATION						
L H/L	FIRE ALARM NOTIFICATION DEVICE						
\bigtriangledown	DATA / COMMUNICATION DEVICE						
\bigcirc	HARD WIRED CONNECTION						
	2X2 / 2X4 LIGHT FIXTURE						
	LINEAR LIGHT FIXTURE						
-\$-	RECESSED LIGHT FIXTURE						
	RECESSED WALL MOUNTED NIGHT LIGHT FIXTURE						
J	JUNCTION BOX						
S	SMOKE / FIRE DETECTION DEVICE						

ELECTRICAL DEMOLITION NOTES

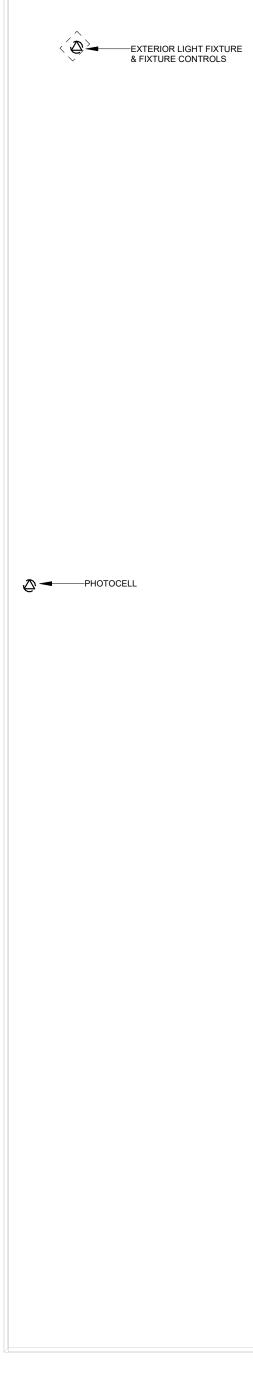
- 1. ALL DEVICES, FIXTURES, PANELS, AND ETC ARE SHOWN BASED ON CASUAL FIELD OBSERVATIONS AND SHOULD BE VERIFIED IN FIELD BY THIS CONTRACTOR. 2. CONTRACTOR SHALL DEMOLISH ALL LIGHT FIXTURES, LIGHTING CONTROL DEVICES, ELECTRICAL DEVICES, FIRE ALARM DEVICES, FIRE ALARM PANELS, PANELBOARDS, MOTOR CONTROL PANELS,
- INTERCOM PANELS, SECURITY DEVICES, NURSE CALLS, SPEAKERS, CONDUITS, CONDUCTORS, AND ETC THROUGHOUT EXISTING BUILDING AND ON THE ROOF TOP, UNLESS OTHERWISE NOTED.
- DISCONNECT SWITCES, AND ETC FOR THE ROOF MOUNTED AIR COOLED CONDENSING UNIT, AND ALL EXHAUST FANS. COORDINATE DEMOLITION WITH THE MECHANICAL CONTRACTOR.

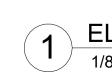
DEMOLITION NOTES - LIGHTNING PROTECTION:

EQUIPMENT, DEVICES, VENT PIPES, EXHAUST FANS, ROOF TOP UNITS, LIGHT FIXTURES, RECEPTACLES, AND ETC ON ROOF TOP TO BE DEMOLISHED. 2. ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND STORE ALL EXISTING LIGHTNING PROTECTION EQUIPMENT, CONDUCTORS, COMPONENTS, CONNECTORS, ETC. NECESSARY TO ALLOW FOR ROOF REPLACEMENT. ELECTRICAL CONTRACTOR SHALL REINSTALL SYSTEM UPON COMPLETION OF ROOF REPLACEMENT AND CONNECT NEW EQUIPMENT AND CONDUCTORS SHOWN ON PLAN TO RENDER COMPLETE AND COMPLIANT SYSTEM.

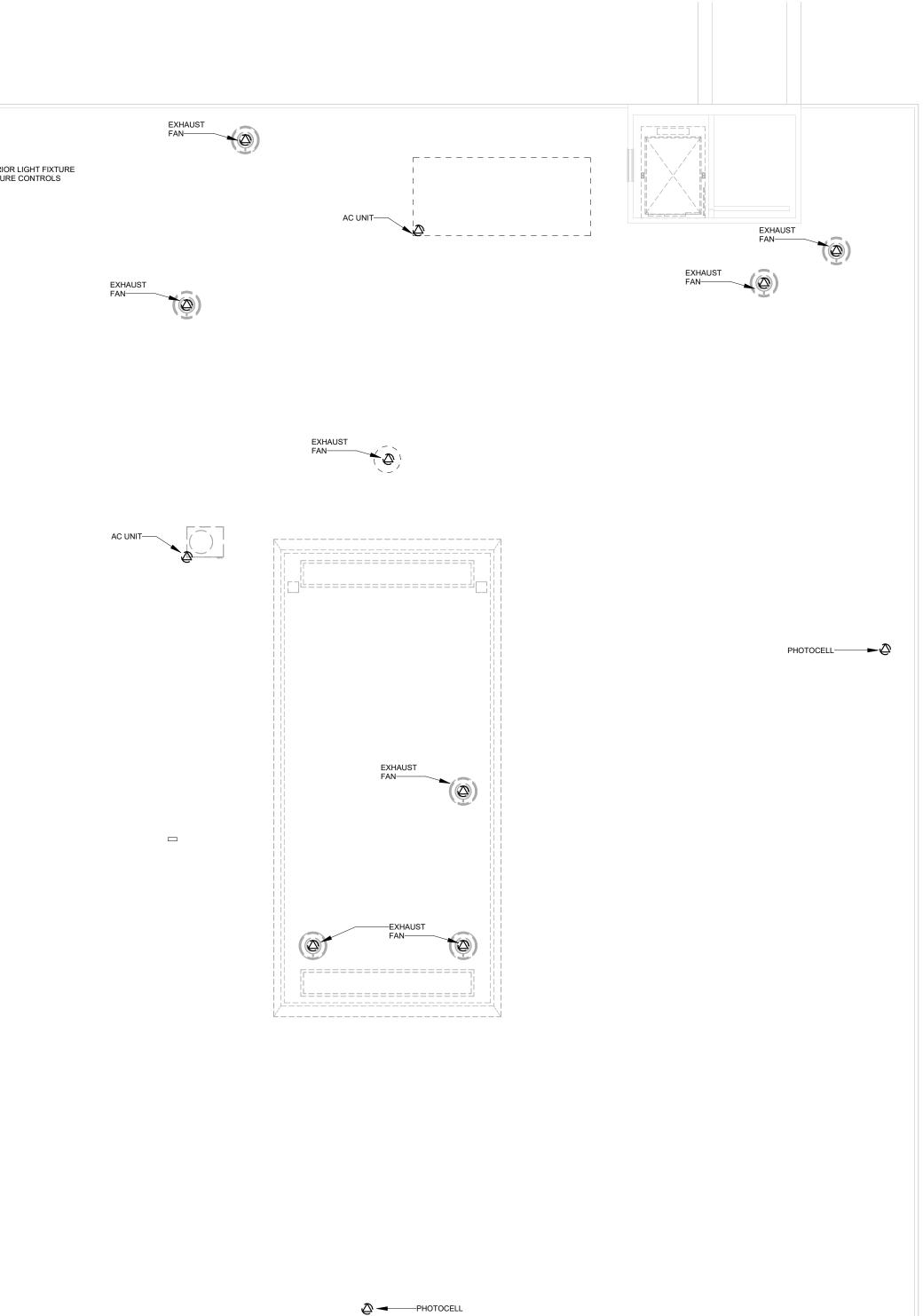
3. CONTRACTOR SHALL DISCONNECT AND DEMOLISH EXISTING CONDUIT, CONDUCTORS,

1. ELECTRICAL CONTRACTOR SHALL DISCONNECT LIGHTNING ARRESTER FROM ALL ROOF MOUNTED

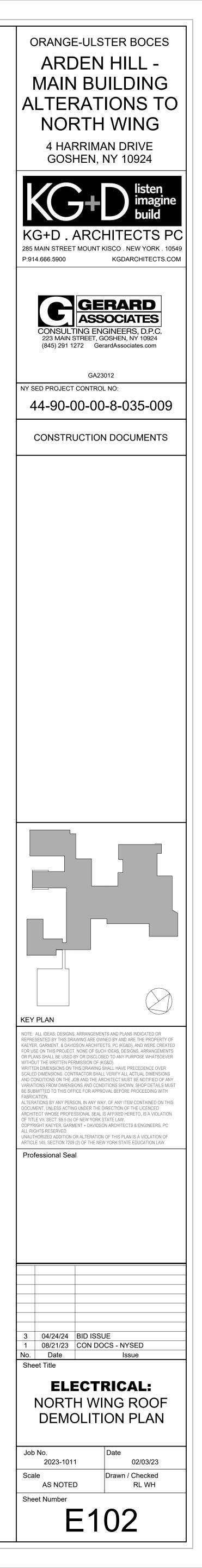


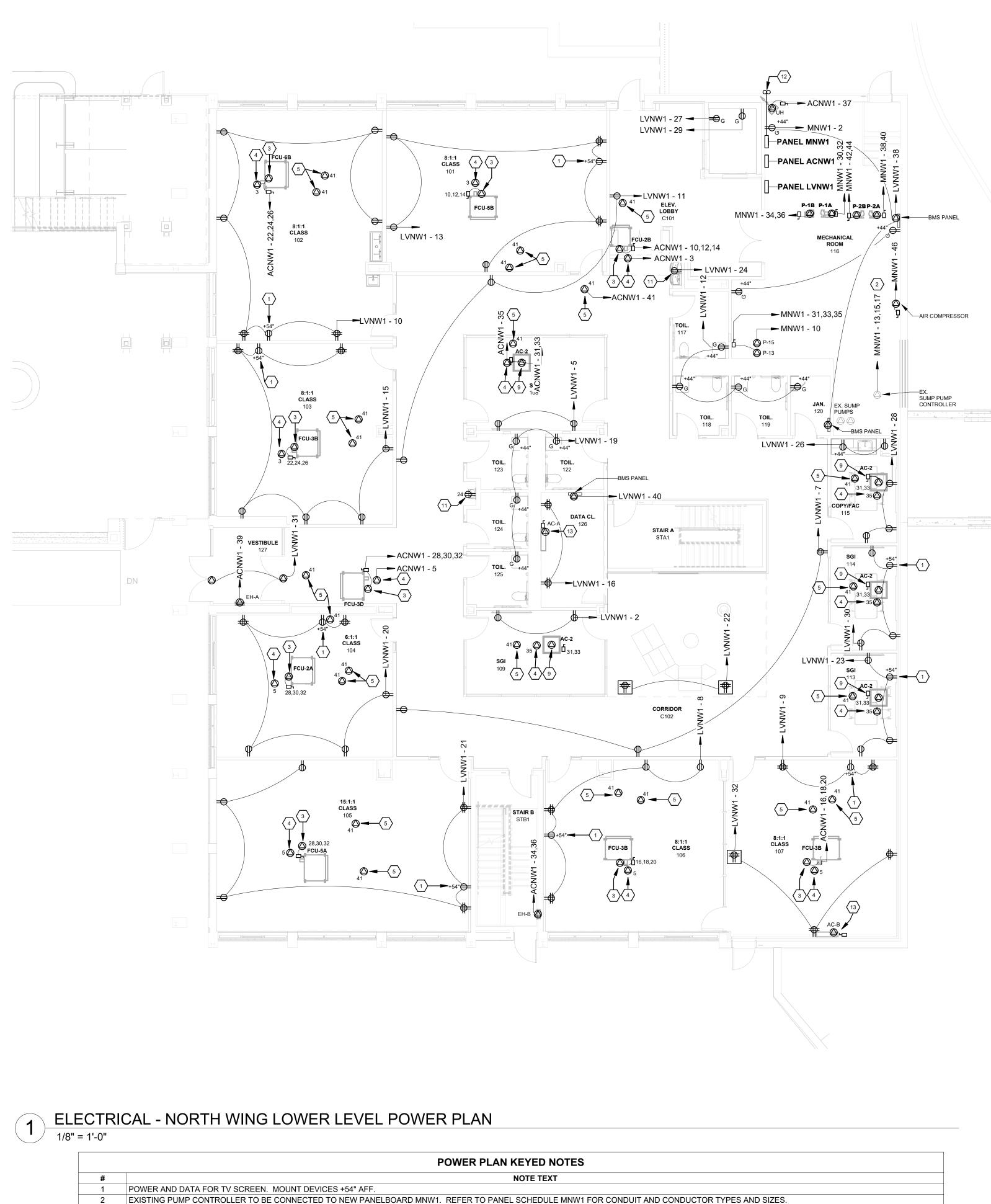


1 ELECTRICAL - NORTH WING ROOF DEMOLITION PLAN 1/8" = 1'-0"



NOTES: 1.) ALL DEMOLITION WORK TO BE PERFORMED BY ABATEMENT CONTRACTOR, UNLESS NOTED OTHERWISE. REFER TO BID DOCUMENTS FOR MORE INFORMATION.





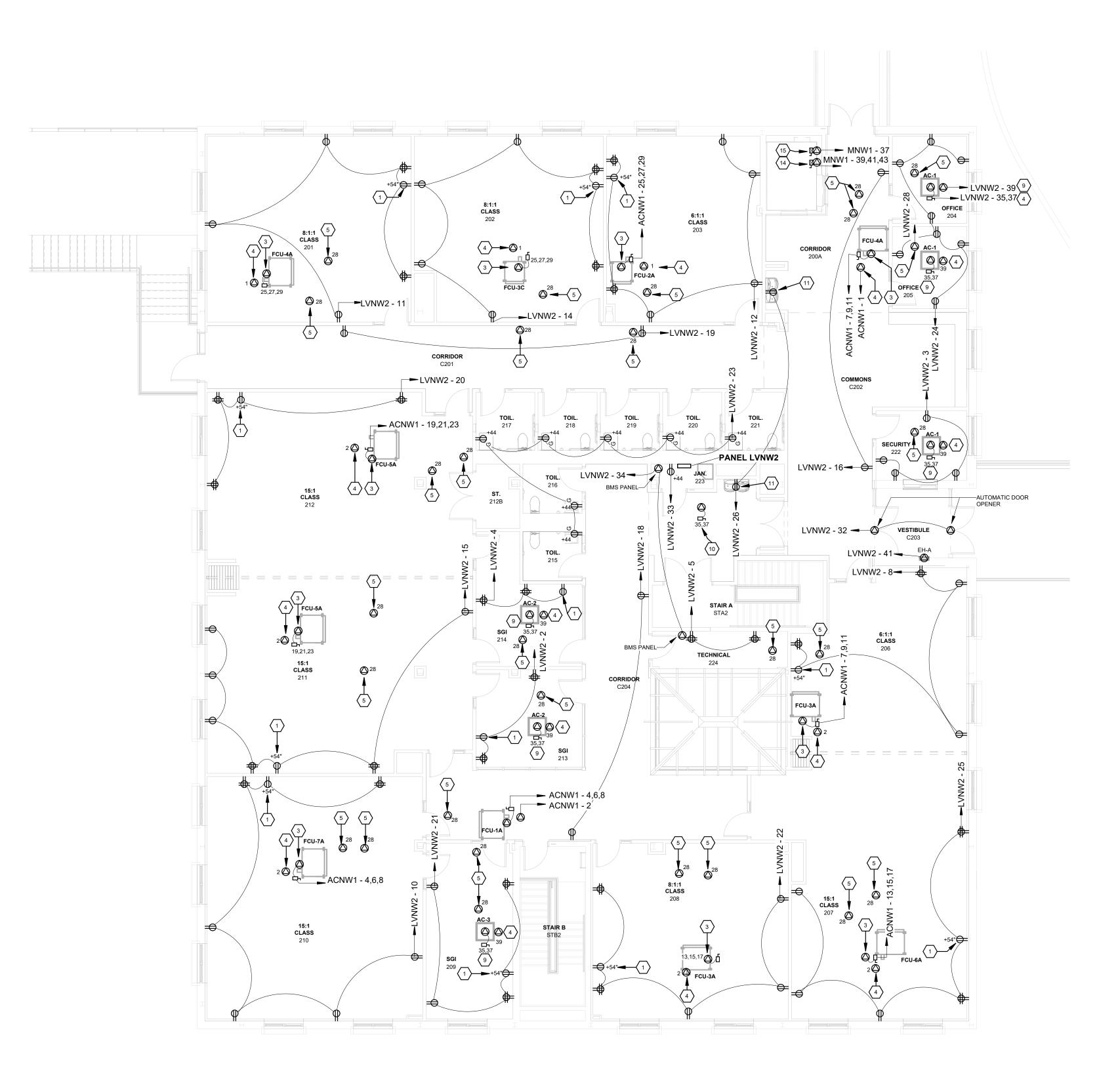
	POWER PLAN KEYED NOTES
#	NOTE TEXT
1	POWER AND DATA FOR TV SCREEN. MOUNT DEVICES +54" AFF.
2	EXISTING PUMP CONTROLLER TO BE CONNECTED TO NEW PANELBOARD MNW1. REFER TO PANEL SCHEDULE MNW1 FOR C
3	TYPICAL, FCU CONNECTION SHALL BE MADE ABOVE FINISHED CEILING. COORDINATE TERMINATION LOCATIONS WITH THE M
4	TYPICAL, CONDENSATE PUMP BY OTHERS. THIS CONTRACTOR TO PROVIDE HARDWIRE CONNECTION TO CONDENSATE PUM ON SHEET E601 FOR MORE INFORMATION.
5	TYPICAL, MOTORIZED DAMPER BY OTHERS. THIS CONTRACTOR TO PROVIDE 120V POWER CONNECTION.
6	COORDINATE CONDUIT ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL TERMINATE NON-FUSED DISCONNECT SWITCH WHERE CIRCUIT BREAKER DOES NOT COMPLY WITH 2017 NEC 440.14.
7	COORDINATE CONDUIT ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL INSTALL FIE RECEPTACLE, CONDUIT, AND ETC AS REQUIRED.
8	COORDINATE CONDUIT ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR.
9	TYPICAL, CEILING CASSETTE UNIT CONNECTION SHALL BE MADE ABOVE FINISHED CEILING. COORDINATE TERMINATION LO
10	BRANCH CIRCUIT CONTROLLER FOR THE VRF SYSTEM. CONNECTION SHALL BE MADE ABOVE FINISHED CEILING. COORDIN
11	TYPICAL WATER FOUNTAIN RECEPTACLE. THE BRANCH CIRCUIT SHALL BE PROTECTED BY A CLASS A GFCI TYPE CIRCUIT B WITHIN THE HOUSING OF THE WATER FOUNTAIN. COORDINATE RECEPTACLE MOUNTING LOCATION WITH THE PLUMBING CO
12	FEEDER CONDUITS AND CONDUCTORS FROM EXISTING TRANSFORMER ON THE SOUTH CORNER OF THE BUILDING ADJACEN EXISTING TRANSFORMER TO THE MAIN CIRCUIT BREAKER IN PANEL MNW1.
13	AC INDOOR UNIT. EXTEND (3) #12 THHN, #12 G IN 3/4" RMC FROM ROOF THE ASSOCIATED TOP UNIT ACCU.
14	ELEVATOR CONTROLLER BY OWNER'S ELEVATOR EQUIPMENT INSTALLER. EXTEND (3) #8 THHN, #10G, IN 1" EMT TO 208V, 3 WITH (3) 35A RK1 DUAL-ELEMENT TIME-DELAY FUSES. COORDINATE EQUIPMENT INSTALLATION WITH THE ELEVATOR EQUIP
15	FURNISH AND INSTALL 30 AMPERE, 2 POLE FUSED SWITCH WITH LOCKABLE HANDLE AND (1) 20 AMPERE DUAL ELEMENT TIM #12 THHN (1) #12 GROUND IN 3/4" EMT. FIELD VERIFY DISCONNECT MOUNTING LOCATION AND CONDUIT ROUTE WITH THE EL

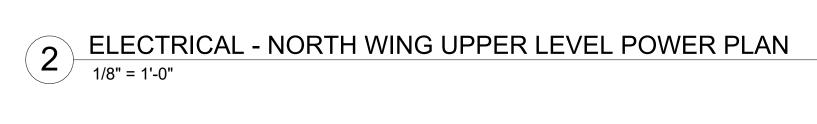
E MECHANICAL CONTRACTOR. UMP AND DISCONNECT SWITCH. REFER TO CONDENSATE WIRING ABOVE CEILING DETAIL

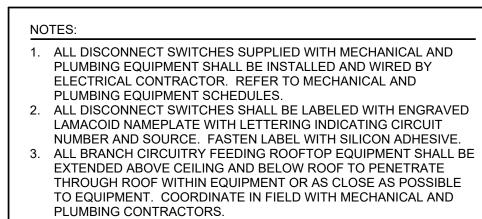
ATE CONDUCTORS ON FACTORY INSTALLED CIRCUIT BREAKER. FURNISH AND INSTALL FIELD FABRICATED GALVANIZED STANCHION TO SUPPORT DISCONNECT SWITCH,

OCATIONS WITH THE MECHANICAL CONTRACTOR. INATE THE TERMINATION LOCATION WITH THE MECHANICAL CONTRACTOR. F BREAKER. A GFCI TYPE RECEPTACLE IS NOT PERMITTED TO BE MOUNTED BEHIND OR CONTRACTOR. CENT TO THE PARKING LOT. EXTEND (2) SETS OF (4) #350 THWN IN 3" PVC FROM THE

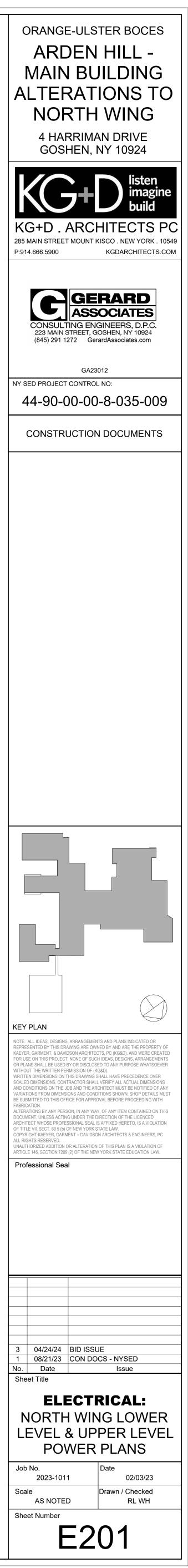
, 3 Ø, 60A RATED FUSED DISCONNECT SWITCH. FURNISH FUSED DISCONNECT SWITCH JIPMENT INSTALLER. IME DELAY FUSE IN ELEVATOR SHAFT AT TOP FOR ELEVATOR CAB POWER. PROVIDE (2) E ELEVATOR EQUIPMENT INSTALLER.







NOTES: 1.) ALL FLOOR CUTTING AND PATCHING SHALL BE BY THE GÉNERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF FLOOR MOUNTED DEVICES WITH THE GENERAL CONTRACTOR.



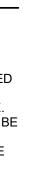
POWER PLAN KEYED NOTES

#	NOTE TEXT
1	POWER AND DATA FOR TV SCREEN. MOUNT DEVICES +54" AFF.
2	EXISTING PUMP CONTROLLER TO BE CONNECTED TO NEW PANELBOARD MNW1. REFER TO PANEL SCHEDULE MNW1 FOR CONDUIT AND CONDUCTOR TYPES AND SIZES.
3	TYPICAL, FCU CONNECTION SHALL BE MADE ABOVE FINISHED CEILING. COORDINATE TERMINATION LOCATIONS WITH THE MECHANICAL CONTRACTOR.
4	TYPICAL, CONDENSATE PUMP BY OTHERS. THIS CONTRACTOR TO PROVIDE HARDWIRE CONNECTION TO CONDENSATE PUMP AND DISCONNECT SWITCH. REFER TO CONDENSATE WIRING ABOVE CEILING DETA ON SHEET E601 FOR MORE INFORMATION.
5	TYPICAL, MOTORIZED DAMPER BY OTHERS. THIS CONTRACTOR TO PROVIDE 120V POWER CONNECTION.
6	COORDINATE CONDUIT ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL TERMINATE CONDUCTORS ON FACTORY INSTALLED CIRCUIT BREAKER. FURNISH AND INSTALL NON-FUSED DISCONNECT SWITCH WHERE CIRCUIT BREAKER DOES NOT COMPLY WITH 2017 NEC 440.14.
7	COORDINATE CONDUIT ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL INSTALL FIELD FABRICATED GALVANIZED STANCHION TO SUPPORT DISCONNECT SWITCH, RECEPTACLE, CONDUIT, AND ETC AS REQUIRED.
8	COORDINATE CONDUIT ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR.
9	TYPICAL, CEILING CASSETTE UNIT CONNECTION SHALL BE MADE ABOVE FINISHED CEILING. COORDINATE TERMINATION LOCATIONS WITH THE MECHANICAL CONTRACTOR.
10	BRANCH CIRCUIT CONTROLLER FOR THE VRF SYSTEM. CONNECTION SHALL BE MADE ABOVE FINISHED CEILING. COORDINATE THE TERMINATION LOCATION WITH THE MECHANICAL CONTRACTOR.
11	TYPICAL WATER FOUNTAIN RECEPTACLE. THE BRANCH CIRCUIT SHALL BE PROTECTED BY A CLASS A GFCI TYPE CIRCUIT BREAKER. A GFCI TYPE RECEPTACLE IS NOT PERMITTED TO BE MOUNTED BEHIND OR WITHIN THE HOUSING OF THE WATER FOUNTAIN. COORDINATE RECEPTACLE MOUNTING LOCATION WITH THE PLUMBING CONTRACTOR.
12	FEEDER CONDUITS AND CONDUCTORS FROM EXISTING TRANSFORMER ON THE SOUTH CORNER OF THE BUILDING ADJACENT TO THE PARKING LOT. EXTEND (2) SETS OF (4) #350 THWN IN 3" PVC FROM THE EXISTING TRANSFORMER TO THE MAIN CIRCUIT BREAKER IN PANEL MNW1.
13	AC INDOOR UNIT. EXTEND (3) #12 THHN, #12 G IN 3/4" RMC FROM ROOF THE ASSOCIATED TOP UNIT ACCU.
14	ELEVATOR CONTROLLER BY OWNER'S ELEVATOR EQUIPMENT INSTALLER. EXTEND (3) #8 THHN, #10G, IN 1" EMT TO 208V, 3 Ø, 60A RATED FUSED DISCONNECT SWITCH. FURNISH FUSED DISCONNECT SWITCH WITH (3) 35A RK1 DUAL-ELEMENT TIME-DELAY FUSES. COORDINATE EQUIPMENT INSTALLATION WITH THE ELEVATOR EQUIPMENT INSTALLER.
15	FURNISH AND INSTALL 30 AMPERE, 2 POLE FUSED SWITCH WITH LOCKABLE HANDLE AND (1) 20 AMPERE DUAL ELEMENT TIME DELAY FUSE IN ELEVATOR SHAFT AT TOP FOR ELEVATOR CAB POWER. PROVIDE (2)

NOTES:

1. ALL DISCONNECT SWITCHES SUPPLIED WITH MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. REFER TO MECHANICAL AND PLUMBING EQUIPMENT SCHEDULES. ALL DISCONNECT SWITCHES SHALL BE LABELED WITH ENGRAVED

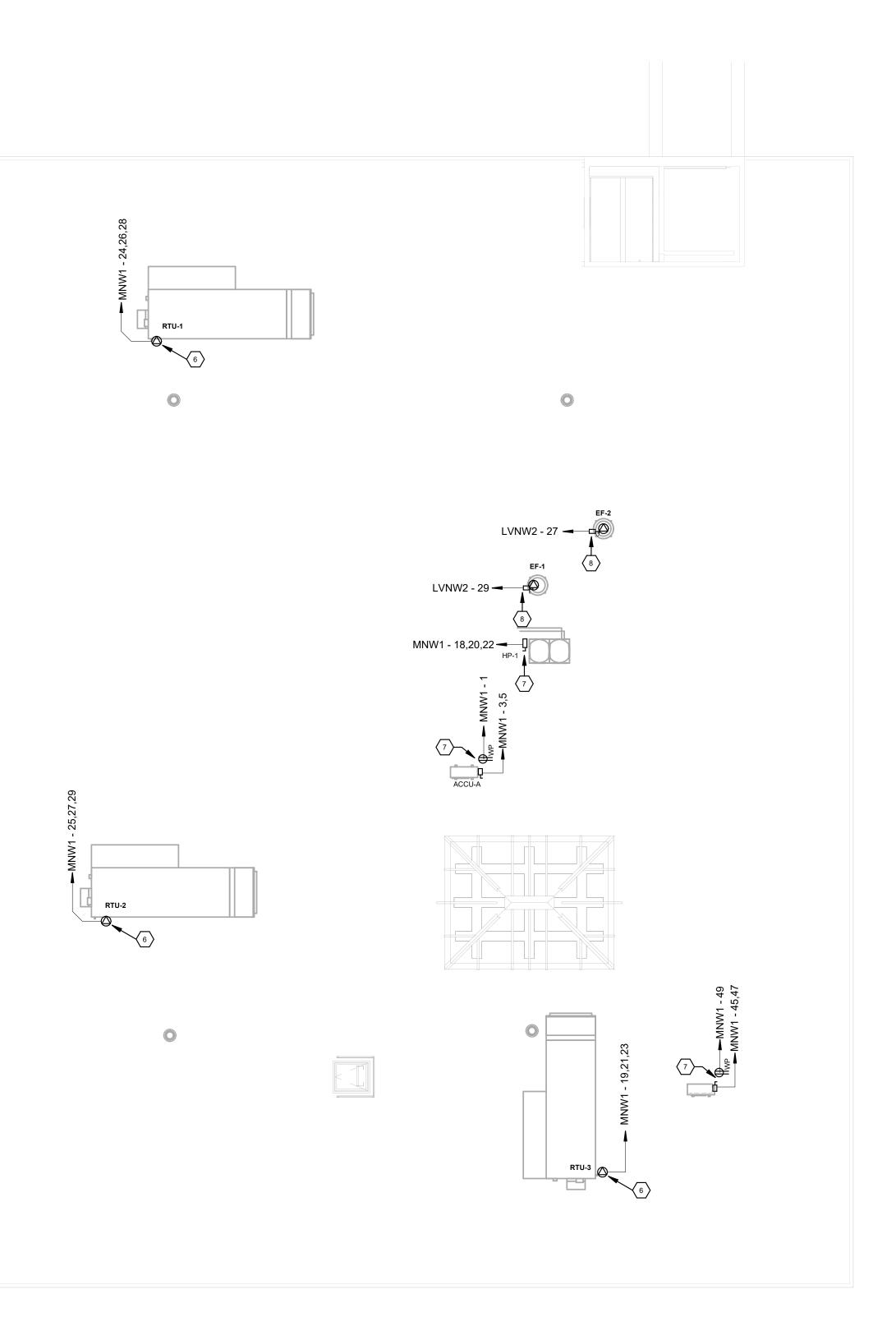
LAMACOID NAMEPLATE WITH LETTERING INDICATING CIRCUIT NUMBER AND SOURCE. FASTEN LABEL WITH SILICON ADHESIVE. 3. ALL BRANCH CIRCUITRY FEEDING ROOFTOP EQUIPMENT SHALL BE EXTENDED ABOVE CEILING AND BELOW ROOF TO PENETRATE THROUGH ROOF WITHIN EQUIPMENT OR AS CLOSE AS POSSIBLE TO EQUIPMENT. COORDINATE IN FIELD WITH MECHANICAL AND PLUMBING CONTRACTORS.

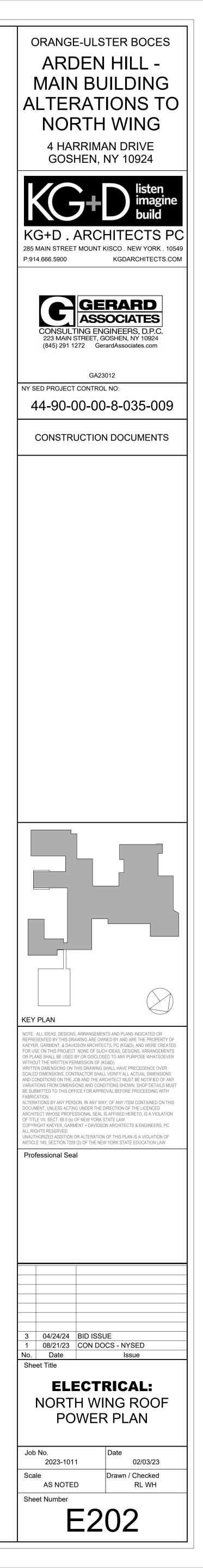


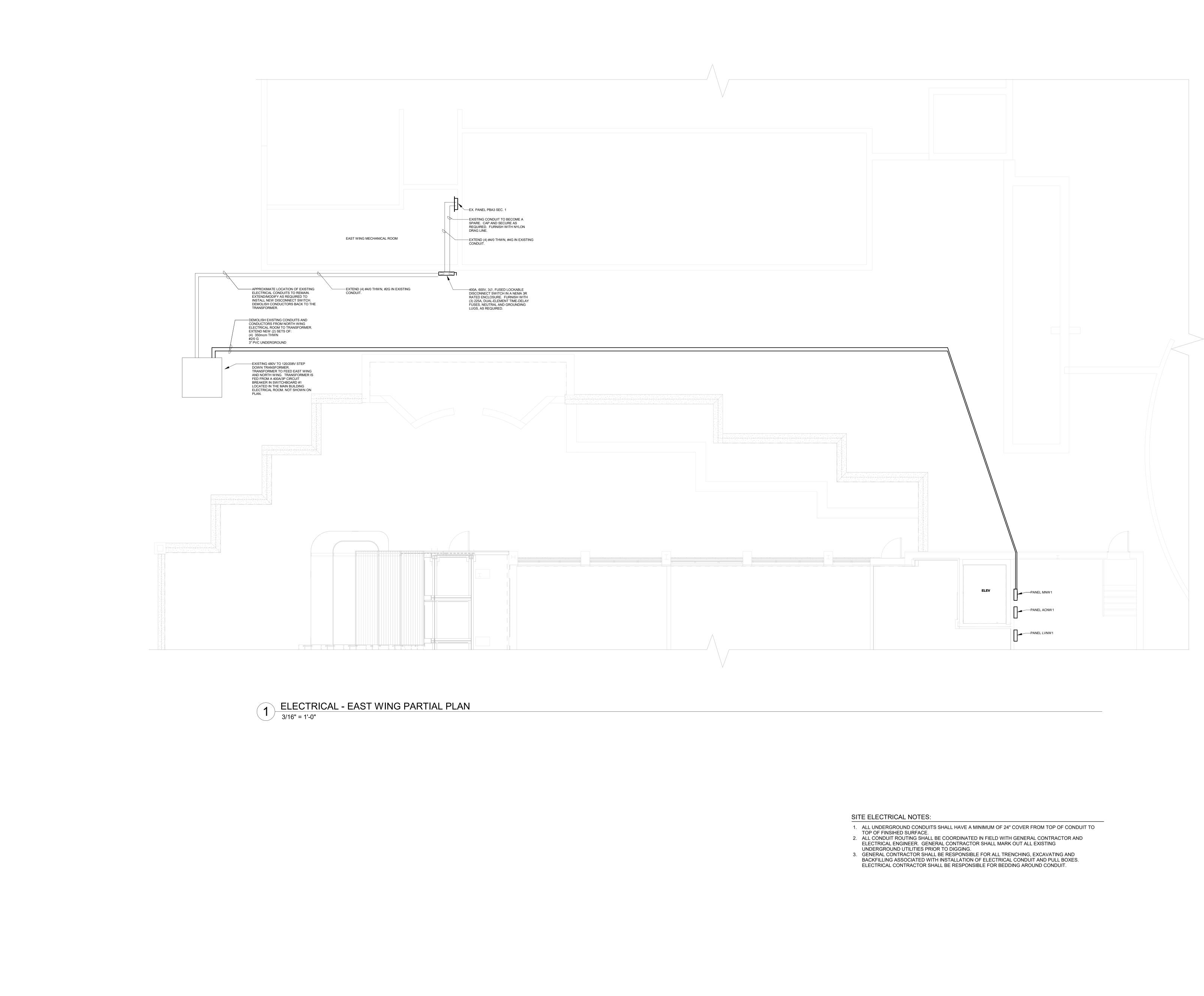


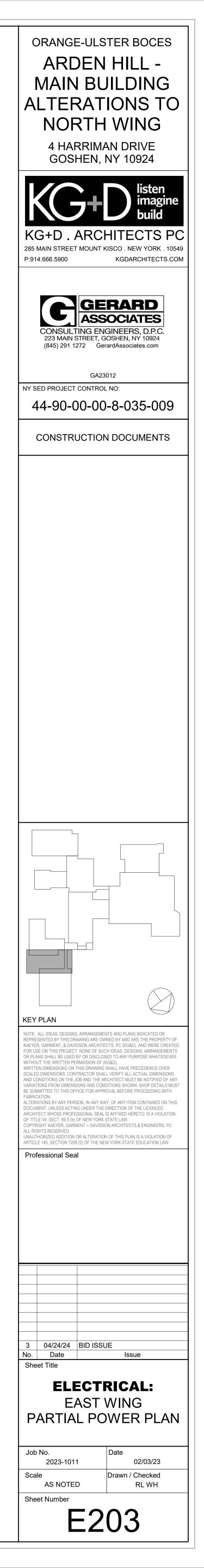
1 ELECTRICAL - NORTH WING ROOF POWER PLAN 1/8" = 1'-0"

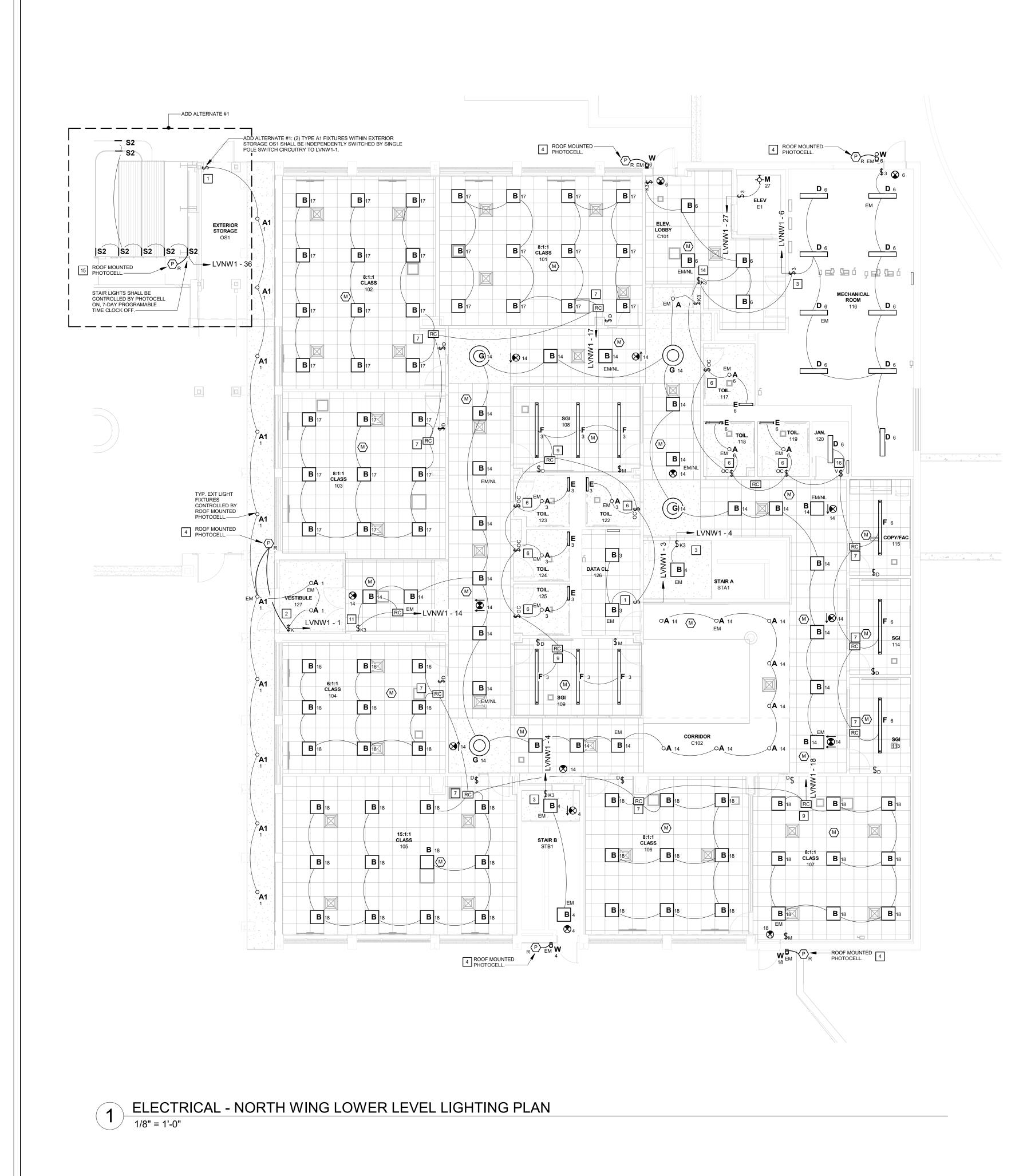
, 60A RATED FUSED DISCONNECT SWITCH. FURNISH FUSED DISCONNECT SWITCH ENT INSTALLER. FURNISH AND INSTALL 30 AMPERE, 2 POLE FUSED SWITCH WITH LOCKABLE HANDLE AND (1) 20 AMPERE DUAL ELEMENT TIME DELAY FUSE IN ELEVATOR SHAFT AT TOP FOR ELEVATOR CAB POWER. PROVIDE (2) #12 THHN (1) #12 GROUND IN 3/4" EMT. FIELD VERIFY DISCONNECT MOUNTING LOCATION AND CONDUIT ROUTE WITH THE ELEVATOR EQUIPMENT INSTALLER.



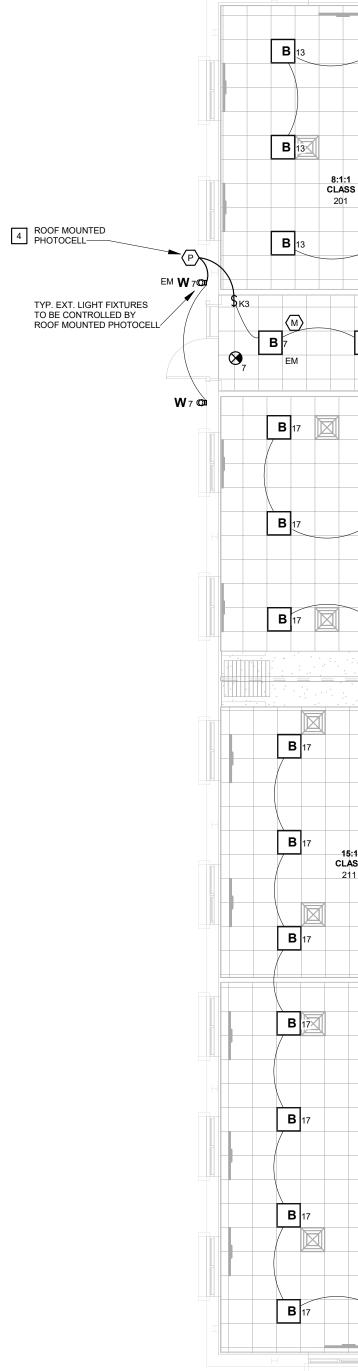








LIGHTING CONTROL NOTE # REFER TO LIGHTING CONTROL EQUIPMENT SCHEDULE AND LIGHTING CONTROL ROOM SCHEDULE FOR SENSOR AND SWITCH PART SPECIFICATION AND OPERATION MODE.





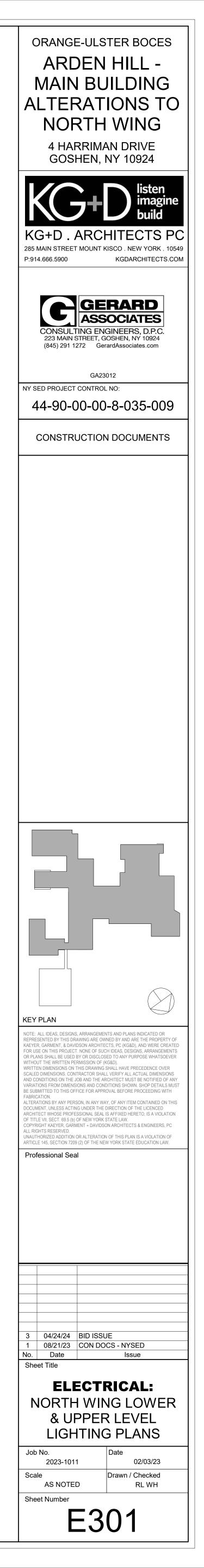
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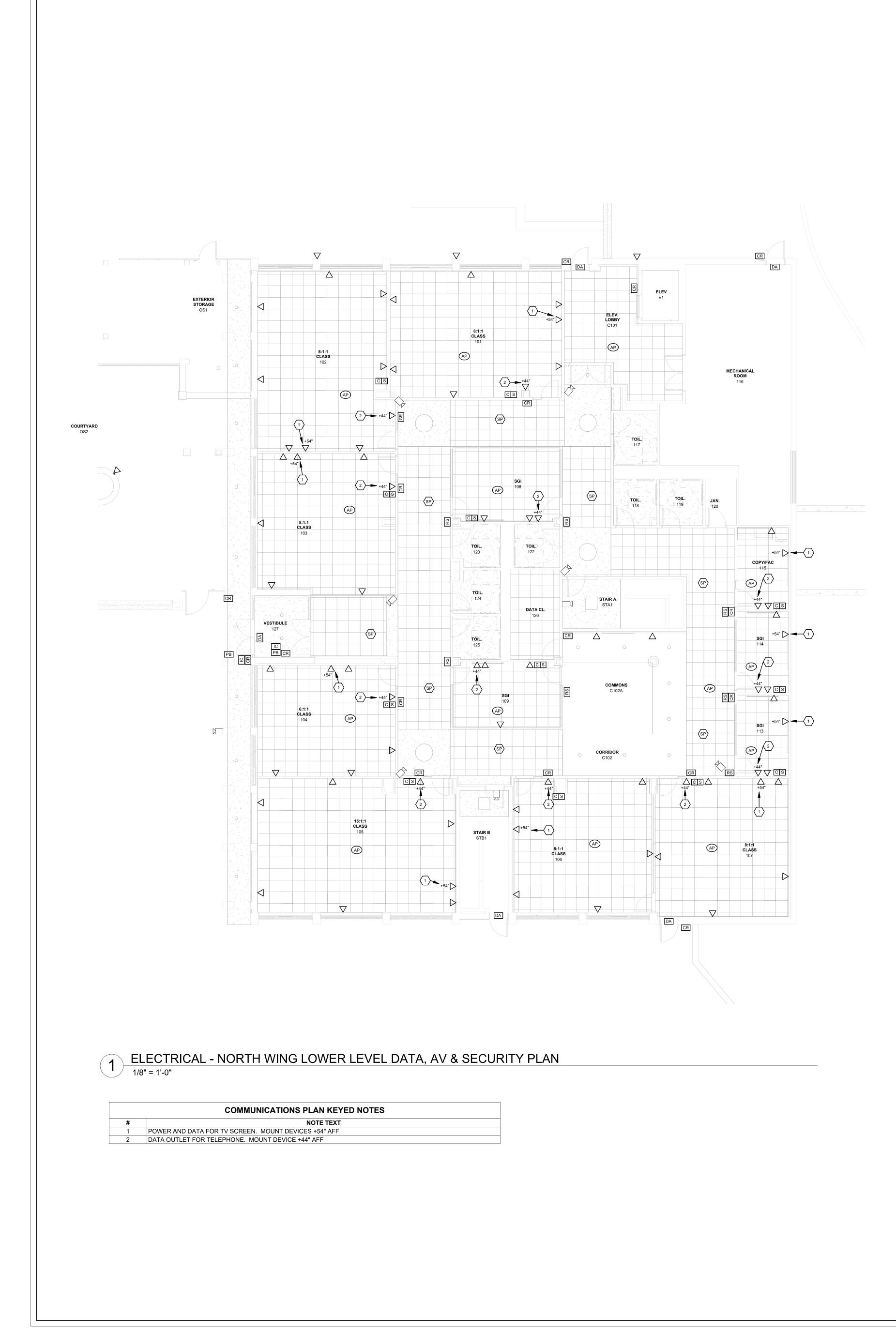
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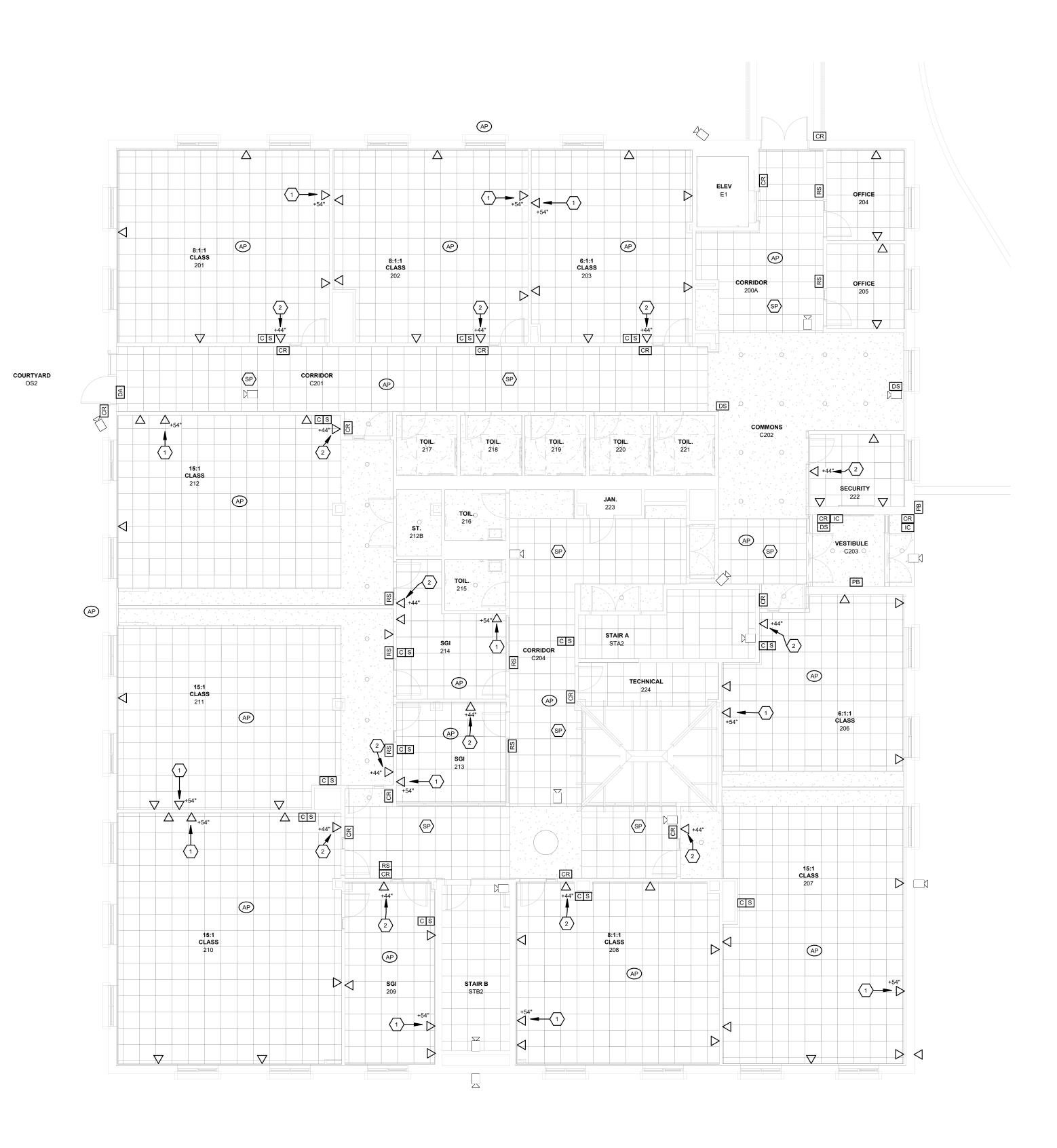
LIGHTING PLAN KEYED NOTES NOTE TEXT

DAYLIGHT ZONE. DAYLIGHT SENSOR SHALL AUTOMATICALLY ADJUST LIGHTING LEVELS OF ALL LIGHT FIXTURES WITHIN THE DAYLIGHT ZONE IN ACCORDANCE WITH 2020 NEW YORK STATE ENERGY CODE.

CIRCUITED THROUGH LIGHTING CONTROL CIRCUIT LVNW1-27 FROM THE FLOOR BELOW.	
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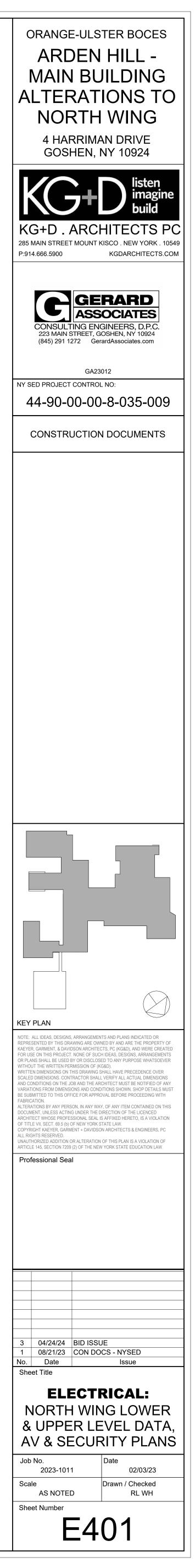








2 ELECTRICAL - NORTH WING UPPER LEVEL DATA, AV & SECURITY PLAN 1/8" = 1'-0"

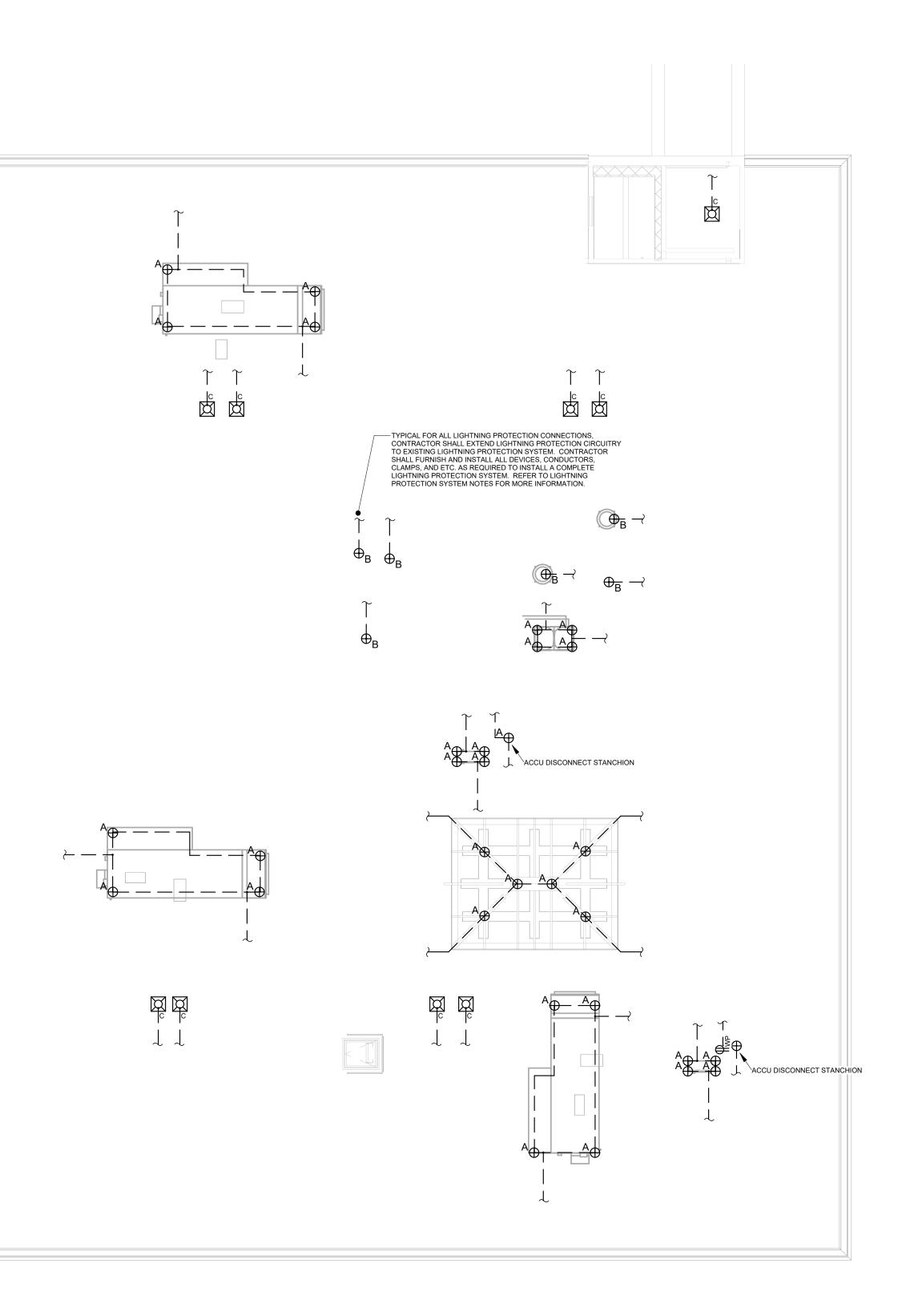


		LIGHTNING PROTECTION EQUIPMENT SCHEDULE
	SYMBOL	DESCRIPTION
	\oplus_{A}	3/8" x 18" GENTLY TAPERED SOLID COPPER AIR TERMINAL WITH HORIZONTAL BASE MOU ADHESIVE.
	\oplus_{B}	3/8" x 10" GENTLY TAPERED SOLID COPPER AIR TERMINAL WITH HORIZONTAL BASE MOU ADHESIVE.
	● _C	BOND CONNECTION TO METAL EQUIPMENT.
	- • -	CONDUCTOR CONNECTION
		CLASS I COPPER MAIN CONDUCTOR, 32 STRAND, 17 GAUGE, 64,800CM, FASTEN TO STRUEVERY 3 FEET.
L		

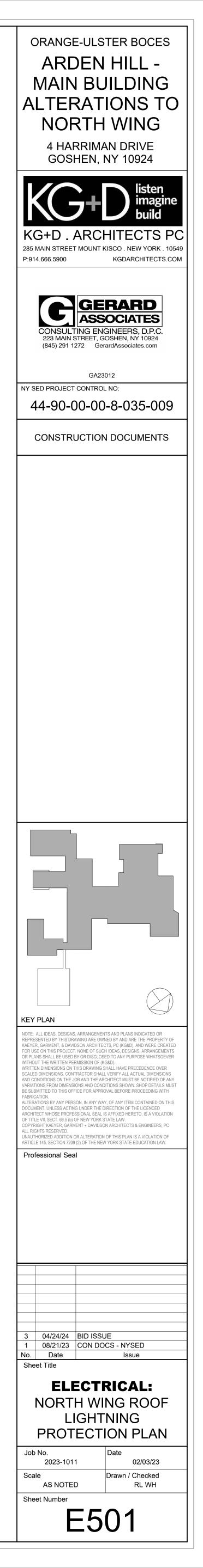
LIGHTING PROTECTION SYSTEM NOTES

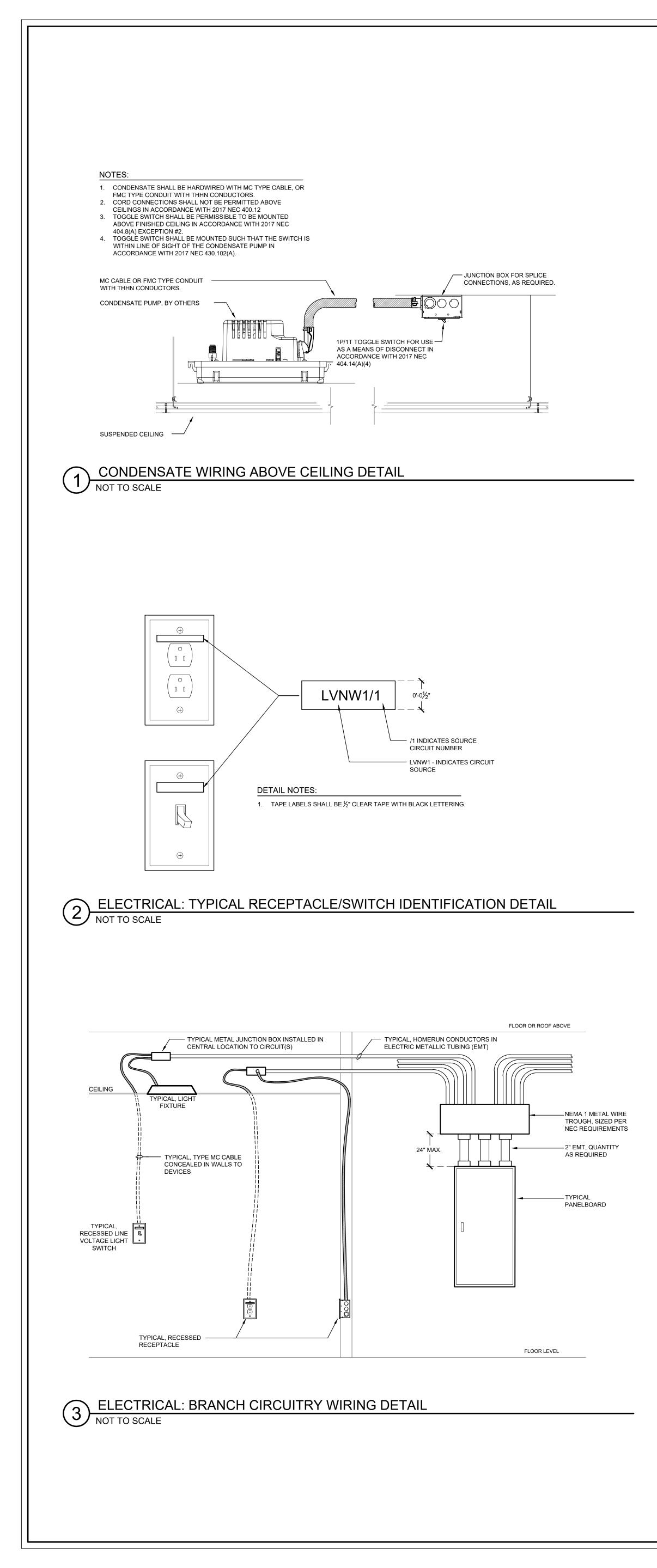
- 1. THE LIGHTNING PROTECTION SYSTEM SHALL MEET ALL THE REQUIREMENTS OF A CLASS I SYSTEM IN ACCORDANCE WITH NFPA STANDARD 780 AND U.L. 96. 2. ADHESIVE USED WITH AIR TERMINAL BASES AND CONDUCTOR FASTENERS SHALL BE COMPATIBLE WITH ROOFING
- MEMBRANE, PARAPET WALL COPING AND OTHER MOUNTING SURFACES. ADHESIVE SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- 3. ALL DOWN CONDUCTORS SHALL BE CONCEALED WITHIN THE EXTERIOR WALL ASSEMBLIES. ROOF PENETRATIONS, CONDUCTOR LOCATIONS AND FASTENER LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION. 4. CONTRACTOR SHALL PREPARE A SHOP DRAWING OF THE ENTIRE LIGHTNING PROTECTION SYSTEM FOR REVIEW
- AND APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION. THE SHOP DRAWING SHALL BEAR THE SEAL OF A LIGHTNING PROTECTION INSTITUTE (LPI) CERTIFIED MASTER DESIGNER. 5. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED SHOP DRAWING
- UNDER THE SUPERVISION OF AN LPI CERTIFIED MASTER INSTALLER. 6. ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND STORE ALL EXISTING LIGHTNING PROTECTION EQUIPMENT, CONDUCTORS, COMPONENTS, CONNECTORS, ETC. NECESSARY TO ALLOW FOR ROOF REPLACEMENT. ELECTRICAL CONTRACTOR SHALL REINSTALL SYSTEM UPON COMPLETION OF ROOF REPLACEMENT AND CONNECT NEW EQUIPMENT AND CONDUCTORS SHOWN ON PLAN TO RENDER COMPLETE AND COMPLIANT SYSTEM.

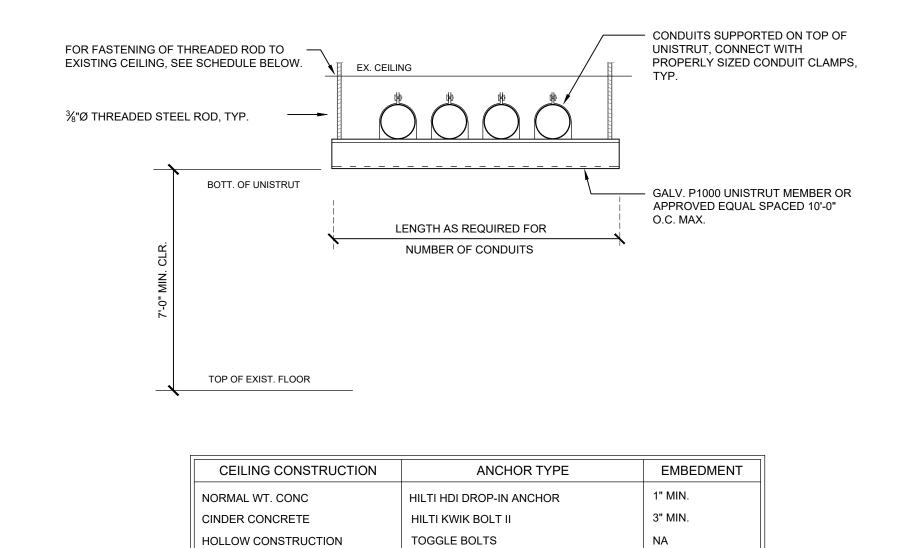
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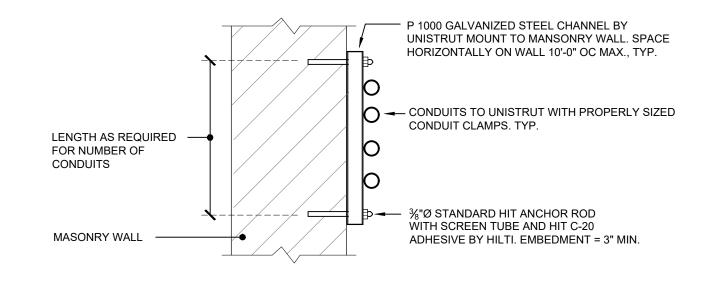
1 ELECTRICAL - NORTH WING ROOF LIGHTNING PROTECTION PLAN 1/8" = 1'-0"



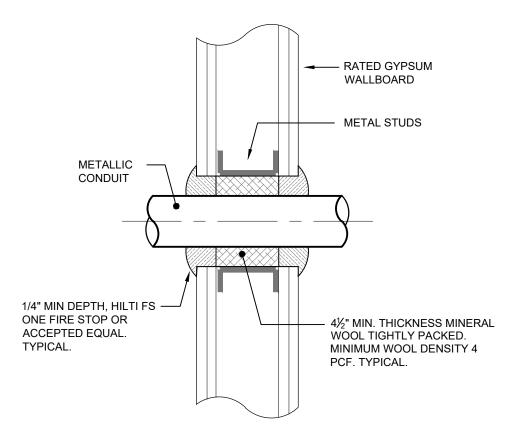




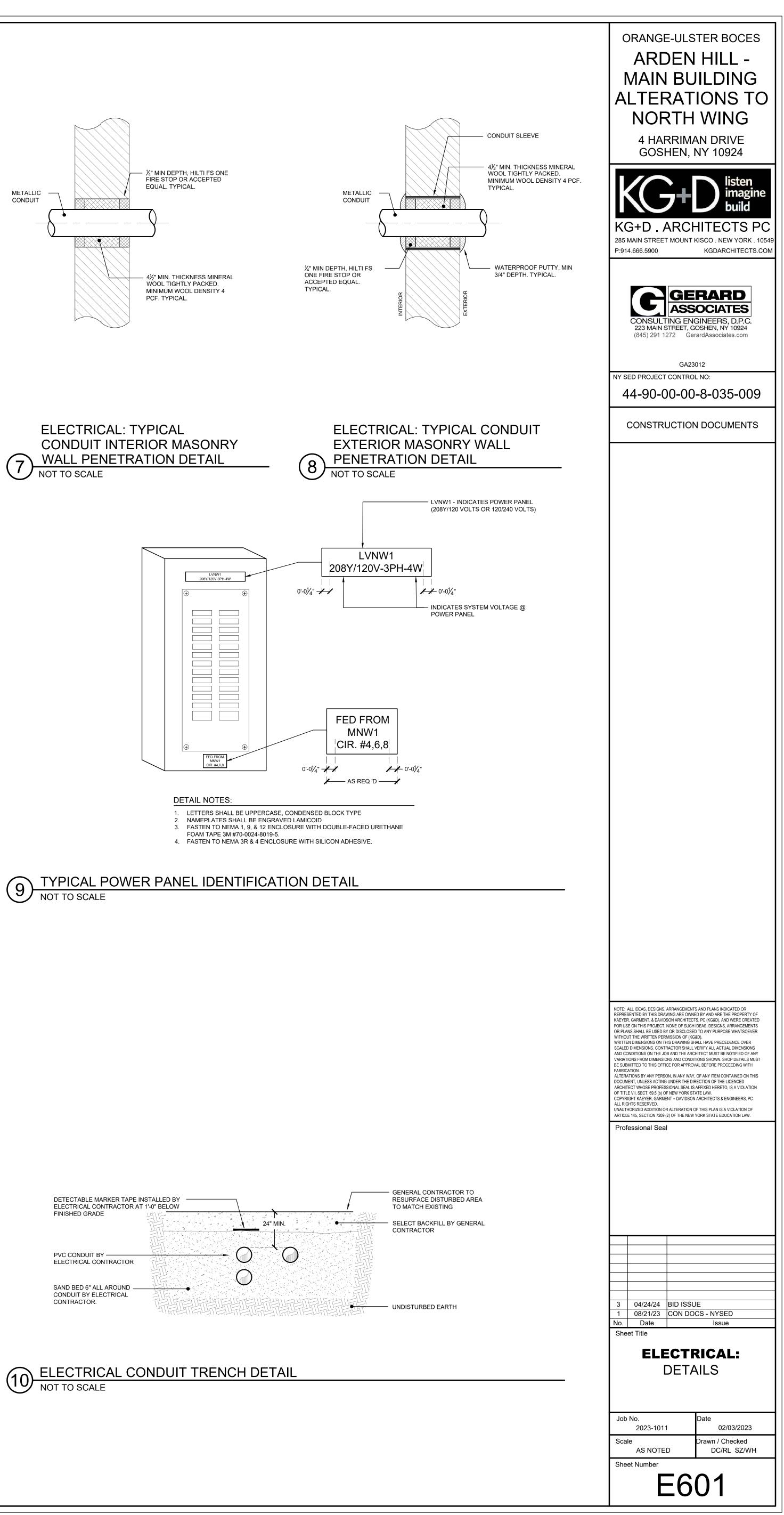


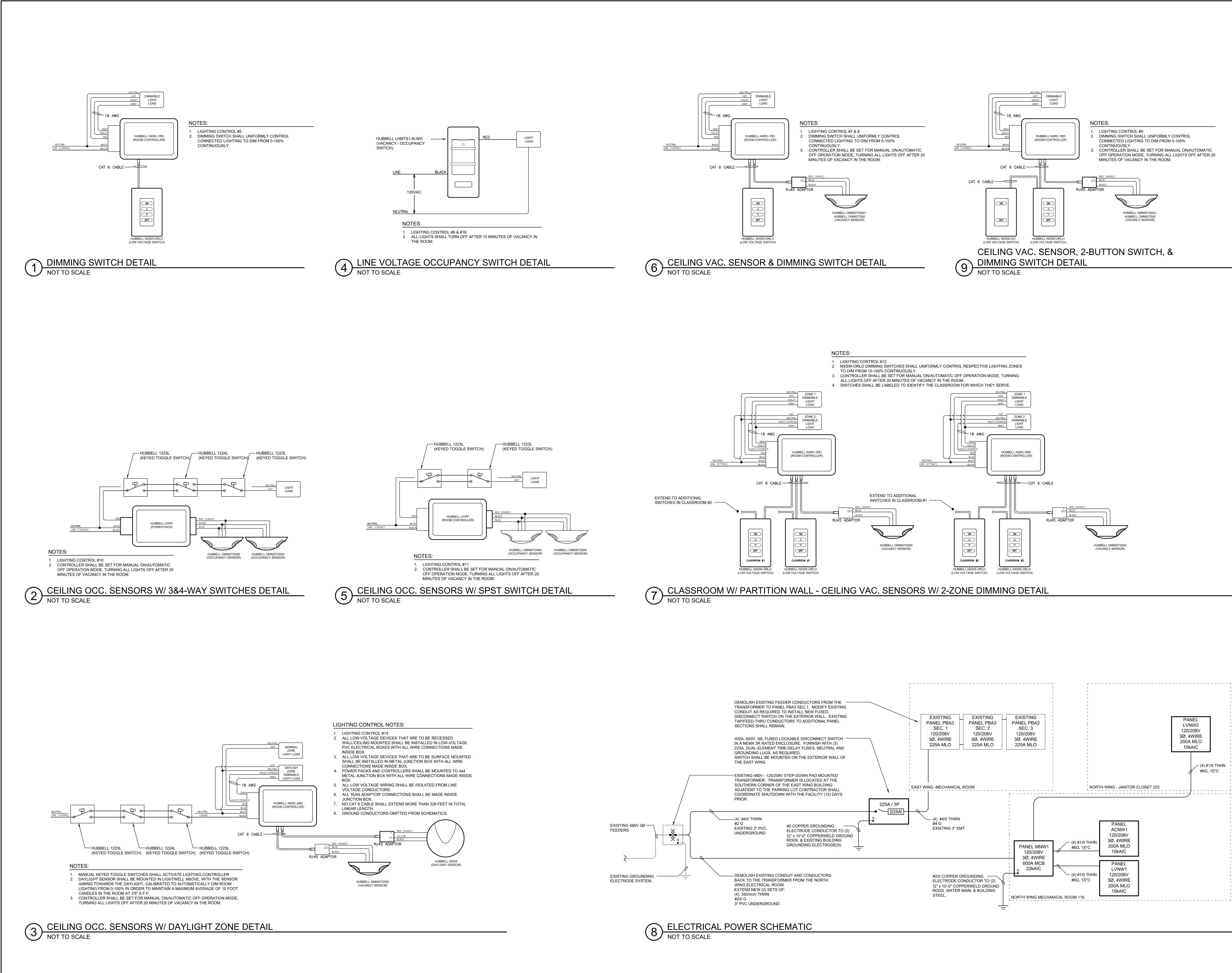


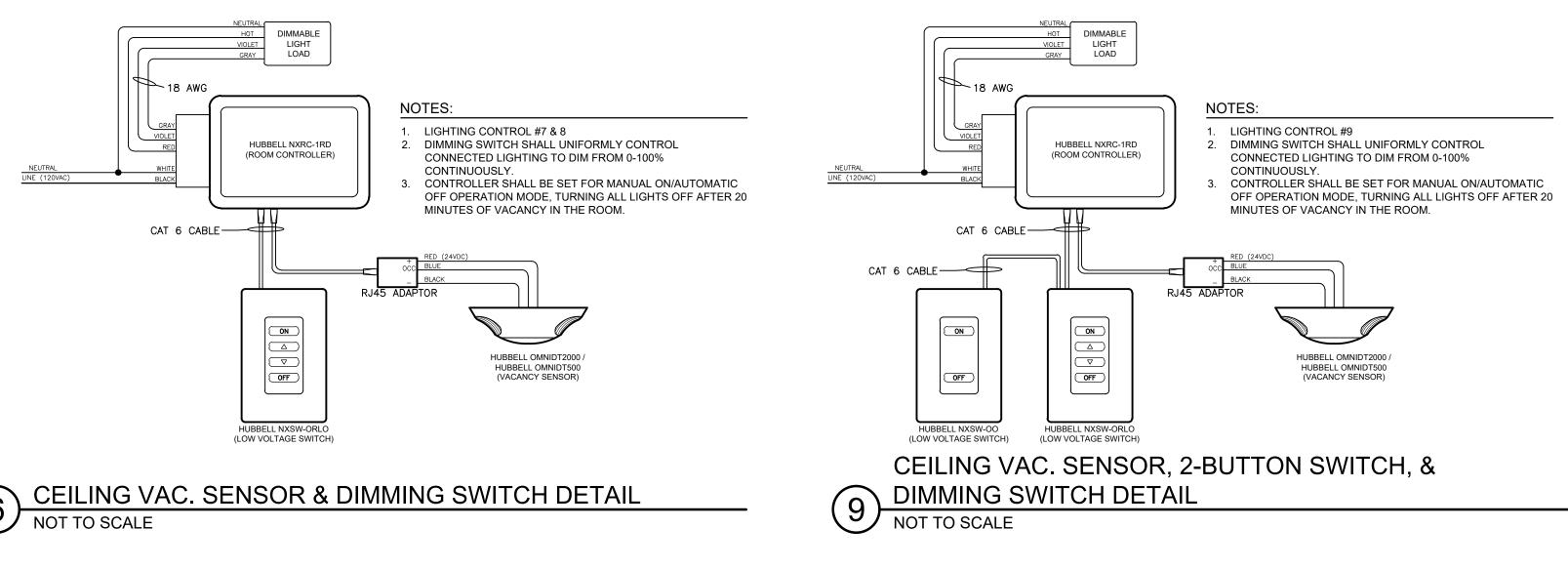




6 ELECTRICAL: TYPICAL CONDUIT GYPSUM WALL PENETRATION DETAIL NOT TO SCALE







ORANGE-ULSTER BOCES ARDEN HILL - MAIN BUILDING ALTERATIONS TO NORTH WING 4 HARRIMAN DRIVE GOSHEN, NY 10924
KG+D.ARCHITECTS PC P:914.666.5900 KGDARCHITECTS.COM
GERARD ASSOCIATES CONSULTING ENGINEERS, D.P.C. 223 MAIN STREET, GOSHEN, NY 10924 (845) 291 1272 GerardAssociates.com
GA23012 NY SED PROJECT CONTROL NO: 44-90-00-00-8-035-009
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Sheet Title ELECTRICAL: DETAILS
Job No. Date 2023-1011 02/03/2023
Scale Drawn / Checked DC/RL SZ/WH
Sheet Number E602

DE	CATALOG#	MANUFACTURER	SYMBOL
SINGLE POLE TOGGLE SWITCH WITH MET 20A, 125V.	1221	HUBBELL	\$
THREE WAY TOGGLE SWITCH WITH META 20A, 120V.	1223	HUBBELL	\$3
WALL MOUNTED DIMMING LIGHT SWITCH ROOM SCHEDULE FOR PART SPECIFICAT			\$ _D
SINGLE POLE OCCUPANCY WALL SWITCH ROOM SCHEDULE FOR PART SPECIFICATI			\$ _{oc}
SINGLE POLE VACANCY WALL SWITCH W ROOM SCHEDULE FOR PART SPECIFICATI			\$∨
LOW VOLTAGE MOMENTARY CONTACT LIC LIGHTING CONTROL ROOM SCHEDULE FO			\$ _M
SINGLE POLE KEY OPERATED TOGGLE SW WITH OPERATING KEY.	1221L	HUBBELL	\$к
3-WAY KEY OPERATED TOGGLE SWITCH, I OPERATING KEY.	1223L	HUBBELL	\$кз
4-WAY KEY OPERATED TOGGLE SWITCH, I OPERATING KEY.	1224L	HUBBELL	\$ _{K4}
HUBBELL NX ROOM CONTROLLER. 120V. FURTHER INFORMATION.	NXRC	HUBBELL	RC
DUAL TECHNOLOGY (PIR/ULTRASONIC) CE DETECTOR FOR USE WITH NXRC AND UV FURTHER INFORMATION.	NXSW-OMNIDT	HUBBELL	$\langle M \rangle$
CEILING MOUNTED LOW VOLTAGE (24V) P CONTROL ROOM SCHEDULE FOR FURTHE	NXDS	HUBBELL	P
EXTERIOR MOUNTED LINE VOLTAGE (120) SCHEDULE FOR FURTHER INFORMATION.	EK4000	INTERMATIC	(P) _R

LIGHTING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	CATALOG #	SOURCE	COLOR TEMPERATURE	WATTAGE	VOLTAGE	LUMENS
А	4" ROUND DOWNLIGHT	ALPHABET	NU4-RD-20L-35K-HE60-WH- WH-NC-120-DIM10	LED	3500	16	120	1600
A1	WET LOCATION RATED, 4" ROUND DOWNLIGHT	ALPHABET	NU4-RD-20L-35K-SS60-CL- WH-WH-NC-120-DIM10	LED	3500	16	120	1600
В	2"X2" RECESSED DIRECT TROFFER, SATIN ICE ACRYLIC LENSES, INTEGRAL 0-10V DIMMING DRIVER, 80+CRI.	DAY-O-LITE	HML-A-D-SI-35K-HO-22-G-W- DIM10	LED	3500	44	120	4060
С	2"X4" RECESSED DIRECT TROFFER, SATIN ICE ACRYLIC LENSES, INTEGRAL 0-10V DIMMING DRIVER, 80+CRI.	DAY-O-LITE	HML-A-D-SI-35K-HO-22-G-W- DIM10	LED	3500	70	120	7550
D	SURFACE MOUNTED 48" LINEAR WRAP WITH FIXED OUTPUT DRIVER.	COLUMBIA LIGHTING	RLW-4-35-MW-FA-W-E-U	LED	3500	28.8	120	3800
E	DAMP LOCATION RATED, 22" LED LIGHT BAR, WITH REMOTE TRIAC/ELV DIMMING DRIVER	SONNEMAN	KEEL LED BATH BAR	LED	3500	11	120	800
F	OPEN APERTURE PENDENT INDIRECT/DIRECT 8' LINEAR LED WITH 51" SUSPENSION KIT, CLEAR ACRYLIC DUST COVER LENS, AND INTEGRAL 0-10V DIMMING DRIVER.	LITECONTROL	75L-P-ID-STD-8'-08-C3-35K-1 050-D070-D01-1C-UNV-ECO- FA1-NL-EF-L1-CB1	LED	3500	3.5W/FT	120	500LM/FT
G	36" ROUND RECESSED DIRECT LED WITH FROSTED LENS, INTEGRAL 0-10V DIMMING DRIVER, 80+CRI	SKYDOME	FSLD-33-FLXP-3000L-35-K-1 C-UNV-LD1	LED	3500	49	120	3000
J	INDIRECT/DIRECT LED WALL SCONCE WITH INTEGRAL 0-10V DIMMING TO 1%, AND 80+CRI.	DAY-O-LITE	CRESL-DI-SI-35-SO-3-NW-W	LED	3500	7W/FT	120	500LM/FT
K	18" SUSPENDED LED BALL WITH 0-10V DIMMING DRIVER AND 90+CRI	ARANCIA	K-P84-18-N-N-B-1-U-O-C10- N-BL	LED	3500	32	120	1585
K1	18" SUSPENDED LED BALL WITH 0-10V DIMMING DRIVER AND 90+CRI	ARANCIA	K-P84-18-N-N-B-1-U-O-C10- N-BL-SP-N	LED	3500	32	120	1585
K2	18" SUSPENDED LED BALL WITH 0-10V DIMMING DRIVER AND 90+CRI	ARANCIA	K-P84-18-N-N-B-1-U-O-C10- N-SP-BL	LED	3500	32	120	1585
М	VAPOR TIGHT, WALL MOUNTED LED WITH FROSTED GLASS LENS PROTECTED BY DIE CAST GUARD.	STONCO	VWXL-14-NW-G1-8	LED	4000	14	120	1390
S2	LED IN STEP LIGHT, HORIZONTAL, SUITABLE FOR CONCRETE POUR, DIFFUSE GLASS FACEPLATE, WITH TAMPER RESISTANT SCREWS.	GRADCO	941L-31L-NW-C-DG1-UNV-T P-BK	LED	4000	31	120	920
W	WET LOCATION RATED, WALL MOUNTED LED WITH FORWARD THROW LIGHT DISTRIBUTION, INTGRAL 0-10V DIMMING DRIVER, 80+CRI	BEGA	33817-K35	LED	3500	17	120	1659

LIGHTING CONTROL ROOM SCHEDULE

NOTE NUMBER	SWITCH	MOTION SENSOR	DAYLIGHT SENSOR	ROOM CONTROLLER	OPERATION MODE	DESCRIPTION
1	HUBBELL: 1221	N/A	N/A	N/A	MANUAL ON/MANUAL OFF	SINGLE POLE SWITCH. 120V
2	HUBBELL: 1221L (W/KEY HBL1209)	N/A	N/A	N/A	MANUAL ON/MANUAL OFF	SINGLE POLE KEY OPERATED SWITCH. 120V
3	HUBBELL: (2) 1223	N/A	N/A	N/A	MANUAL ON/MANUAL OFF	(2) THREE-WAY SWITCHES. 120V
4	INTERMATIC: EK4000	N/A	INTERMATIC EK4000	N/A	AUTOMATIC ON/AUTOMATIC OFF	(1) PHOTOSENSOR. 120V
5	HUBBELL: NXSW-ORLO	N/A	N/A	HUBBELL NXRC-1RD	MANUAL ON/MANUAL OFF	(1) ZONE SYSTEM W/ (1) WALL MOUNTED 4-BUTTON DIMMING SWITCH. 120V
6	HUBBELL: HMTS1-N-WH	N/A	N/A	N/A	AUTOMATIC ON/AUTOMATIC OFF	WALL MOUNTED PASSIVE INFRARED, SINGLE RELAY, OCCUPANCY SWITCH, 120V.
7	HUBBELL: NXSW-ORLO	HUBBELL OMNIDT2000	N/A	HUBBELL NXRC-1RD	MANUAL ON/AUTOMATIC OFF	(1) ZONE SYSTEM W/ (1) CEILING MOUNTED MOTION SENSOR & (1) WALL MOUNTED 4-BUTTON DIMMING SWITCH. 120V
8	HUBBELL: NXSW-ORLO	HUBBELL OMNIDT500	N/A	HUBBELL NXRC-1RD	MANUAL ON/AUTOMATIC OFF	(1) ZONE SYSTEM W/ (1) CEILING MOUNTED MOTION SENSOR & (1) WALL MOUNTED 4-BUTTON DIMMING SWITCH. 120V
9	HUBBELL: NXSW-ORLO, NXSW-OO	HUBBELL OMNIDT2000	N/A	HUBBELL NXRC-1RD	MANUAL ON/AUTOMATIC OFF	(1) ZONE SYSTEM W/ (1) CEILING MOUNTED MOTION SENSOR & (1) WALL MOUNTED 4-BUTTON DIMMING SWITCH, (1) WALL MOUNTED 2-BUTTON SWITCH. 120V
10	HUBBELL: (2) 1223L, (1) 1224L (W/KEY HBL1209)	(7) HUBBELL OMNIDT2000	N/A	HUBBELL UVPP	MANUAL ON/AUTOMATIC OFF	(1) ZONE SYSTEM W/ (7) CEILING MOUNTED MOTION SENSOR, (2) THREE-WAY SWITCHES & (1) FOUR-WAY SWITCHES. 120V
11	HUBBELL: (2) 1223L (W/KEY HBL1209)	(10) HUBBELL OMNIDT2000	N/A	HUBBELL UVPP	AUTOMATIC ON/AUTOMATIC OFF	(1) ZONE SYSTEM W/ (10) CEILING MOUNTED MOTION SENSOR & (1) SINGLE POLE KEY OPERATED SWITCH. 120V
12	HUBBELL: (4) NXSW-ORLO	(1) HUBBELL OMNIDT2000	N/A	HUBBELL (1) NXRC-2RD	MANUAL ON/AUTOMATIC OFF	(2) ZONE SYSTEM W/ (1) CEILING MOUNTED MOTION SENSOR & (4) WALL MOUNTED 4-BUTTON DIMMING SWITCHES. 120V
13	HUBBELL: (2) 1223L, (1) 1224L (W/KEY HBL1209)	(6) HUBBELL OMNIDT2000	NXDS	HUBBELL: (1) NXRC-2RD	MANUAL ON/AUTOMATIC OFF	(2) ZONE SYSTEM W/ (6) CEILING MOUNTED MOTION SENSOR, (1) CEILING MOUNTED DAYLIGHT SENSOR, (2) THREE-WAY SWITCHES & (1) FOUR-WAY SWITCH. 120V
14	HUBBELL: (2) 1223L (W/KEY HBL1209)	HUBBELL OMNIDT2000	N/A	HUBBELL UVPP	AUTOMATIC ON/AUTOMATIC OFF	(1) ZONE SYSTEM W/ (1) CEILING MOUNTED MOTION SENSOR & (2) THREE-WAY KEY OPERATED SWITCH. 120V
15	INTERMATIC: EK4000, El600	N/A	INTERMATIC EK4000	N/A	AUTOMATIC ON/AUTOMATIC OFF	(1) PHOTOSENSOR, (1) 7-DAY PROGRAMMABLE TIME CLOCK, 120V
16	HUBBELL: HMTS1-N-WH	N/A	N/A	N/A	MANUAL ON/AUTOMATIC OFF	WALL MOUNTED PASSIVE INFRARED, SINGLE RELAY, VACANCY SWITCH, 120V.

HEDULE
ESCRIPTION
ETAL COVER PLATE, EXTRA HEAVY DUTY INDUSTRIAL GRADE,
AL COVER PLATE, EXTRA HEAVY DUTY INDUSTRIAL GRADE,
H WITH METAL COVER PLATE. REFER TO LIGHTING CONTROL TION AND OPERATION MODE.
H WITH METAL COVER PLATE. REFER TO LIGHTING CONTROL FION AND OPERATION MODE.
VITH METAL COVER PLATE. REFER TO LIGHTING CONTROL FION AND OPERATION MODE.
IGHT SWITCH WITH METAL COVER PLATE. REFER TO OR PART SPECIFICATION AND OPERATION MODE.
WITCH, EXTRA DUTY INDUSTRIAL GRADE, 20A, 125V. PROVIDE
, EXTRA DUTY INDUSTRIAL GRADE, 20A, 125V. PROVIDE WITH
, EXTRA DUTY INDUSTRIAL GRADE, 20A, 125V. PROVIDE WITH
. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR
EILING MOUNTED LOW VOLTAGE (24V) DIGITAL PRESENCE VPP . REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR
PHOTO SENSOR FOR USE WITH NXRC. REFER TO LIGHTING IER INFORMATION.
V) PHOTO SENSOR. REFER TO LIGHTING CONTROL ROOM

			ELECTRICAL EQUIPMENT SCHEDULE
SYMBOL	MANUFACTURER	CATALOG#	DESCRIPTION
	SURE-LITES	LPX7SD	CEILING OR WALL MOUNTED L.E.D. EXIT SIGN WITH INTEGRAL BATTERY AND CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. SIGN SHALL CONTAIN SELF-DIAGNOSTICS. SIGN SHALL BE WIRED TO UNSWITCHED PHASE LEG OF INDICATED CIRCUIT. 120 VOLTS.
φ	HUBBELL	5362TR	DUPLEX RECEPTACLE, WITH METAL COVER PLATE, TAMPER-RESISTANT, EXTRA HEAVY DUTY SPECIFICATION GRADE, 20 AMPERES, 125 VOLTS.
₽ _G	HUBBELL	GF5362SG	DUPLEX RECEPTACLE WITH GFCI PROTECTION AND METAL COVER PLATE, INDUSTRIAL GRADE, TAMPER-RESISTANT, 20 AMPERES, 125 VOLTS. FEED THROUGH FEATURE SHALL NOT BE UTILIZED. INSTALL GFCI TYPE RECEPTACLE AT EACH LOCATION SHOWN.
P wP	HUBBELL	GF5362SG	DUPLEX RECEPTACLE WITH GFCI PROTECTION AND WEATHERPROOF COVER, INDUSTRIAL GRADE, 20 AMPERES, 125 VOLTS.
#	HUBBELL	(2) 5362TR	(2) DUPLEX RECEPTACLES IN COMMON BOX (QUAD) WITH METAL COVER PLATE, INDUSTRIAL GRADE, TAMPER-RESISTANT, 20 AMPERES, 125 VOLTS.
#	LEGRAND;	880S3, 838TCAL, (2) 828R-TCAL, 828COMTCAL; 5362TR	3-GANG STEEL FLOOR BOX WITH (2) DUPLEX TAMPER-RESISTANT RECEPTACLES (20A, 120V) AND DATA BOX AND METAL COVER PLATE. EXTENDED 1" CONDUIT (PVC WITHIN FLOOR SLAB AND EMT ABOVE FLOOR) FROM DATA BOX TO ACCESSIBLE SPACE ABOVE CEILING. PROVIDE AND INSTALL ALL NECESSARY FITTINGS AND COVER PLATES. COLOR TO BE CHOSEN BY OWNER.
\bigcirc	HUBBELL		HARDWIRED CONNECTION - WHERE EQUIPMENT OR APPLIANCE DOES NOT HAVE INTEGRAL DISCONNECTING MEANS, ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL INDEPENDANT DISCONNECT SWITCH.
			UNFUSED DISCONNECT SWITCH
'EM'			PROVIDE INTEGRAL OR REMOTE EMERGENCY BATTERY AND CHARGER FOR 90 MINUTES OF ILLUMINATION WITHOUT UTILITY POWER. BATTERY AND CHARGER SHALL BE WIRED TO UNSWITCHED PHASE LEG OF INDICATED CIRCUIT.
'NL'			CONTINUOUS LIGHTING (NIGHT LIGHT) SHALL BE CIRCUITED DIRECTLY FROM THE LIGHTING BRANCH CIRCUIT OR KEYED OPERATED SWITCH. FIXTURE SHALL NOT BE CONTROLLED BY A ROOM CONTROLLER OR OTHER AUTOMATED DEVICE.

EQUIPMENT NOTES:

1. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MOUNTING HEIGHTS/TYPES AND LOCATIONS IN FIELD. 2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT COLORS AND FINISHES WITH ARCHITECT. COLOR CHOICES FOR SELECTION SHALL BE MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHES UNLESS OTHERWISE NOTED. 3. ALL RECEPTACLES, AND LINE VOLTAGE LIGHT SWITCHES SHALL BE LABELLED WITH CIRCUIT SOURCE AND NUMBER. REFER TO DETAIL

		DAT	A, A/V & SECURITY EQUIPMENT SCHEDULE
SYMBOL	MANUFACTURER	CATALOG#	DESCRIPTION
\bigtriangledown			DUPLEX DATA OUTLET. ELECTRICAL CONTRACTOR SHALL PROVIDE/INSTALL METAL OUTLET BOX AND 3/4" EMT WITH DRAGLINE FROM OUTLET BOX TO ACCESSIBLE LOCATION ABOVE CEILING. EXTEND (2) CAT6A (UTP) FROM BOX TO DATA CLOSET 126. PROVIDE/INSTALL FEMALE RJ45 TERMINATION W/ COVER PLATE AT BOX LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA CLOSET 126. VERIFY LOCATION AND HEIGHT IN FIELD WITH OWNER.
SP			13" ROUND CEILING MOUNTED SPEAKER FOR INTERCOM SYSTEM PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL EXTEND (1) CAT6A (UTP) FROM SPEAKER LOCATION TO DATA CLOSET 126. PROVIDE/INSTALL MALE RJ45 TERMINATION AT SPEAKER LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA CLOSET 126. VERIFY LOCATION AND HEIGHT IN FIELD WITH OWNER.
CS			IP CLOCK & SPEAKER POWERED BY POE, PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE/INSTALL METAL OUTLET BOX AND 3/4" EMT WITH DRAGLINE FROM OUTLET BOX TO ACCESSIBLE LOCATION ABOVE CEILING. EXTEND (2) CAT6A (UTP) FROM BOX TO DATA CLOSET 126. PROVIDE/INSTALL MALE RJ45 TERMINATION AT CLOCK & SPEAKER LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA CLOSET 126. VERIFY LOCATION AND HEIGHT IN FIELD WITH OWNER.
CR			ACCESS CONTROL DOOR WITH CARD READER, MOTION SENSOR, AND DOOR CONTACT (ALL BY OTHERS). ELECTRICAL CONTRACTOR SHALL PROVIDE/INSTALL METAL OUTLET BOX (48" AFF) AND 3/4" EMT WITH DRAGLINE FROM OUTLET BOX TO ACCESSIBLE LOCATION ABOVE CEILING. EXTEND (1) CAT6A (UTP) FROM BOX TO DATA CLOSET 126. PROVIDE/INSTALL MALE RJ45 TERMINATION AT DOOR ACCESS LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA CLOSET 126. VERIFY LOCATION AND HEIGHT IN FIELD WITH OWNER.
AP			WIRELESS ACCESS POINT. PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE/INSTALL METAL OUTLET BOX IN CEILING AND 3/4" EMT WITH DRAGLINE FROM OUTLET BOX TO ACCESSIBLE LOCATION ABOVE CEILING (WHERE REQUIRED). EXTEND (1) CAT6A (UTP) FROM BOX TO DATA CLOSET 126. PROVIDE/INSTALL MALE RJ45 TERMINATION AT WAP LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA CLOSET 126. VERIFY LOCATION IN FIELD WITH OWNER.
Π			INDOOR DOME NETWORK CAMERA POWERED BY POE. PROVIDED AND INSTALLED BY OTHERS. EXTEND (1) CAT6A (UTP) FROM CAMERA LOCATION TO DATA CLOSET 126. PROVIDE/INSTALL MALE RJ45 TERMINATION AT CAMERA LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA CLOSET 126. VERIFY LOCATION AND HEIGHT IN FIELD WITH OWNER.
RS			ROOM SIGN POWERED BY POE. PROVIDED AND INSTALLED BY OTHERS. EXTEND (1) CAT6A (UTP) FROM ROOM SIGN LOCATION TO DATA CLOSET 126. PROVIDE/INSTALL MALE RJ45 TERMINATION AT ROOM SIGN LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA 126. VERIFY LOCATION AND HEIGHT IN FIELD WITH OWNER.
DA			DOOR AJAR SENSOR PROVIDED AND INSTALLED BY OTHERS. INSTALL METAL OUTLET BOX AND 3/4" EMT WITH DRAGLINE TO ACCESSIBLE LOCATION ABOVE CEILING. EXTEND (1) CAT6A (UTP) FROM BOX TO DATA CLOSET 126. PROVIDE/INSTALLL MALE RJ45 TERMINATION AT DOOR SENSOR LOCATION, AS REQUIRED. PROVIDE/INSTALL FEMALE RJ45 KEYSTON TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA CLOSET 126. VERIFY LOCATION AND COORDINATE WITH OWNER'S EQUIPMENT INSTALLER
DS			DIGITAL SIGN POWERED BY 120V LINE VOLTAGE. PROVIDED AND INSTALLED BY OTHERS. EXTEND (1) CAT6A (UTP) FROM DIGITAL SIGN LOCATION TO DATA CLOSET 126, AND 120V BRANCH CIRCUITRY FROM PANEL LVNW2-30. PROVIDE/INSTALL MALE RJ45 TERMINATION AT DIGITAL SIGN LOCATION. PROVIDE/INSTALL FEMALE RJ45 KEYSTONE TERMINATION IN OWNER PROVIDED PATCH PANEL IN DATA 126. VERIFY LOCATION AND HEIGHT IN FIELD WITH OWNER. COORDINATE BRANCH CIRCUITRY TERMINATION WITH OWNER'S SPECIFIED EQUIPMENT, AS REQUIRED.
РВ			ADA DOOR ACCESS PUSH BUTTON. EXTEND #18/2 LOW VOLTAGE CONTROL WIRING FROM AUTOMATIC DOOR OPENER CONCEALED BEHIND FINISHED WALLS TO THE AUTOMATIC DOOR OPENER. COORDINATE FINAL LOCATIONS WITH THE OWNER'S EQUIPMENT INSTALLER PRIOR TO INSTALLATION. COORDINATE CONTROL CIRCUITRY TERMINATION WITH OWNER'S SPECIFIED EQUIPMENT, AS REQUIRED.

DATA, A/V & SECURITY CABLING NOTES

1. CONTRACTOR SHALL COORDINATE WITH OWNER'S I.T. OPERATION TEAM PRIOR TO PURCHASE OF ANY EQUIPMENT/WIRING OR INSTALLATION OF NETWORK INFRASTRUCTURE. 2. COMPLETION OF DATA, A/V & SECURITY INSTALLATION WILL NOT BE ACCEPTED UNTIL REVIEWED BY A MEMBER OF OWNER I.T. OPERATION TEAM. 3. UTP (UNSHIELDED TWISTED PAIR) SHALL BE PLENUM RATED IN ALL LOCATIONS. UTP INSTALLATION SHALL BE AS FOLLOWS: 3.1. CABLES SHALL BE DRESSED AND TERMINATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND BEST INDUSTRY PRACTICES.

3.2. CABLING SHALL BE EXTENDED AS FOLLOWS: 3.2.1. EMT CONDUIT WITHIN NEW WALLS, SOFFITS AND ABOVE INACCESSIBLE CEILINGS. 3.2.2. SURFACE MOUNTED STEEL RACEWAY ON EXISTING WALLS.

3.2.3. J-HOOKS W/ FABRIC HOOK AND LOOP STRAPS ABOVE ACCESSIBLE CEILINGS. 3.2.3.1. OPEN TOP METAL J-HOOK HANGERS SHALL BE INSTALLED 4'-0" ON CENTER AND ATTACHED TO BUILDING STRUCTURE A MINIMUM OF 8" ABOVE CEILING. 3.2.3.2. SUPPORTED CABLING SHALL HAVE NO MORE THAN 12" SAG BETWEEN HANGERS.

3.2.3.3. FABRIC HOOK AND LOOP STRAPS SHALL BE INSTALLED AROUND CABLE BUNDLES AT INTERVALS NOT EXCEEDING 2'6". 3.2.3.4. CABLE SHALL BE SUPPORTED NOT MORE THAN 6" FROM CABINETS, BOXES, FITTINGS, OUTLETS, RACKS, AND TERMINALS. 3.3. ALL UTP CABLING SHALL BE INSTALLED WITH SERVICE LOOP AT EACH END. SERVICE LOOP SHALL BE STORED IN AN EXTENDED LOOP OR

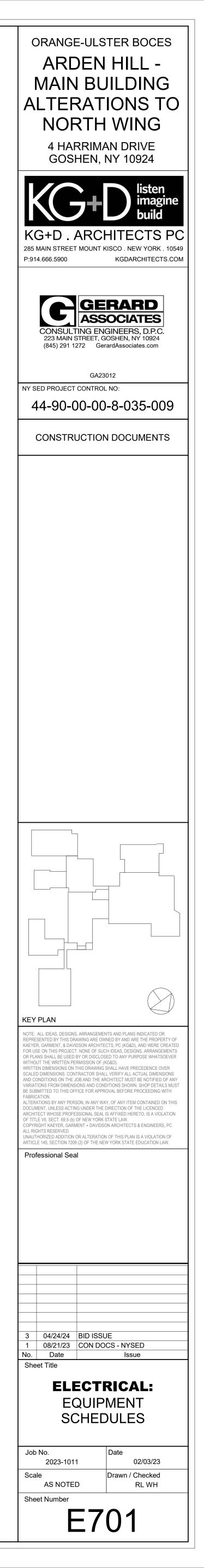
FIGURE-EIGHT CONFIGURATION, NOT A BUNDLED LOOP. 3.3.1. 3'-0" ABOVE CEILING NEAR OUTLET

3.3.2. 6'-0" AT RACK LOCATION. 3.4. UTP CABLING SHALL BE BUNDLED IN GROUPS OF NO MORE THAN 50 CABLES. 3.5. UTP CABLING SHALL BE BUNDLED WITH NO OTHER WIRING.

3.6. CABLING SHALL NOT BE EXTENDED THROUGH STRUCTURAL MEMBERS OR IN CONTACT WITH PIPES, DUCTS, OR OTHER POTENTIALLY DAMAGING ITEMS. 3.7. DO NOT INSTALL BRUISED, SCORED, DEFORMED, OR ABRADED CABLES. DO NOT SPLICE CABLE BETWEEN TERMINATION, TAP, OR JUNCTION POINTS. CABLES WITH DEFECT SHALL BE DISCARDED AND REPLACED.

3.8. MANUFACTURER'S RECOMMENDED BEND RADIUS LIMITATION SHALL NOT BE EXCEEDED. 3.9. UNTWIST CABLE PAIRS NO MORE THAN 0.5" WHEN TERMINATING.

3.10. MAXIMUM LENGTH SHALL BE PER MANUFACTURER'S REQUIREMENTS. 4. LABELING: 4.1. FURNISH WRAP-TYPE LAMINATED PRINTABLE LABELS, 1-1/2" WIDE. LABEL SHALL COMPLETELY WRAP AROUND CABLE OUTER DIAMETER. HANDWRITTEN LABELS AND THE USED OF 'TABBED' OR 'FLAGGED' METHOD ARE NOT ACCEPTABLE. 4.2. EACH CABLE SHALL BE CLEARLY LABELED ON THE CABLE TERMINATION JACK IN ACCORDANCE WITH OWNER SELECTED LABELING METHOD. 4.3. EACH CABLE SHALL BE CLEARLY LABELED ON EACH END IN ACCORDANCE WITH OWNER SELECTED LABELING FORMAT. 5. INSTALL CONDUIT SLEEVES BETWEEN SPACES FOR CABLING. SLEEVES SHALL BE EMT WITH PLASTIC BUSHINGS ON BOTH ENDS. INSTALL ABOVE CEILING AND COORDINATE HEIGHTS WITH ALL OTHER TRADES. COORDINATE FINAL SIZES BASED ON CABLE QUANTITIES. PROVIDE AND INSTALL FIRESTOPPING AT PENETRATION TO MAINTAIN FIRE RATING OF WALL. 6. CONTRACTOR SHALL TEST ALL CABLING AND TERMINATIONS FOR CONTINUITY. PROVIDE REPORT DOCUMENTING TESTING OF EACH CABLE, IDENTIFIED BY LABEL.



GE	ENERAL ELECTRICAL NOTES			Bran
1.	ELECTRICAL CONTRACTOR SHALL PROVIDE TYPEWRITTEN SCHEDULES OF ALL CIRCUITRY IN ALL PANELS. SCHEDULES SHALL MATCH THE LOADS SHOWN IN THE PROJECT PANEL SCHEDULE INCLUDED WITH THESE DRAWINGS. ALL SPARE PANEL SPACES SHALL BE FULLY PROTECTED WITH METAL BLANKS.			
2.	ELECTRICAL DEVICES MATERIALS AND PACKAGED EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UNDERWRITERS LABORATORIES INC. (UL), FOR THE INTENDED USE, AND SHALL BEAR ITS LABEL. NOTE THAT NRTL APPROVAL OF INDIVIDUAL COMPONENTS OF PACKAGED EQUIPMENT DOES NOT CONSTITUTE APPROVAL OF THE ENTIRE PACKAGE.	NOTES	CKT NO.	C DES
3.	ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 2017 EDITION (NFPA 70), AND THE BUILDING CODE OF NEW YORK STATE.		1	ROOF ⁻ RECEP
4.	ELECTRICAL CONTRACTOR SHALL OBTAIN, PAY FOR AND COMPLY WITH ALL REQUIRED PERMITS. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO OWNER PRIOR TO COMPLETION OF PROJECT.	1	3 5	ACCU-/
5.	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS, NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIVE, AND IN COMPLIANCE WITH APPLICABLE CODES.		7 9	ACNW1
6.	ALL WIRING SHALL BE COPPER CONDUCTOR, MINIMUM SIZE #12 AWG.		11	
7.	ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING EQUIPMENT AND NOTE		13	
	CONDITIONS AND AREAS WHERE WORK WILL OCCUR IN FIELD.	3	15	EXISTII EJECT
8.	ELECTRICAL CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS WITH AN INTUMESCENT FIRE STOP MATERIAL TO MAINTAIN FIRE AND SMOKE RATINGS.		17	-
9.	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AND MEET ALL REQUIREMENTS OF SERVING POWER UTILITY COMPANY.		19	
10.	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS OF	1	21	RTU-3
	EQUIPMENT INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT CONNECTIONS, WIRING DEVICES AND LIGHTING WITH ARCHITECT PRIOR TO INSTALLATION.		23	
			25	

- 11. ELECTRICAL CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO COMMENCING INSTALLATION.
- 12. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND PAINTING ASSOCIATED WITH ELECTRICAL WORK.
- 13. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR AGREES TO REPLACE ANY DEFECTIVE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER FOR THE DURATION OF THE GUARANTEE PERIOD.
- 14. MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTER LINE OF DEVICES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON DRAWINGS: CONVENIENCE OUTLETS: 18" LIGHT SWITCHES: 48"
 - COMMUNICATIONS OUTLETS: 18"

NOTES:

OTES CH NG 1 3 5 7 6 7 6 1 1	1 1 1 1 3 1 5 1 7 1 9 1	CIRCUIT DESCRIPTION LT - EXTERIOR & VEST 127 LT - 108, 109, 122, 123,124,125,126 RECEPTACLES SGI 108 RECEPTACLES CORRIDOR 102	CONDUCTORS (2) #12 THHN, #12G, 3/4" EMT (2) #12 THHN, #12G, 3/4" EMT (2) #12 THHN, #12G,	CB SIZE 20 A	POLES												
3 5 7 9 9	1 3 5 7 9	VEST 127 LT - 108, 109, 122, 123,124,125,126 RECEPTACLES SGI 108 RECEPTACLES CORRIDOR 102	3/4" EMT (2) #12 THHN, #12G, 3/4" EMT	20 A		А		В		с		POLES	CB SIZE		CIRCUIT DESCRIPTION	CKT NO.	NOTES
5 7 9 1	5 7 9	123,124,125,126 RECEPTACLES SGI 108 RECEPTACLES CORRIDOR 102	3/4" EMT		1	192 VA	360 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES SGI	2	
7 5 9 1	5 7 9	108 RECEPTACLES CORRIDOR 102	(2) #12 THHN, #12G,	20 A	1			359 VA	461 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	LT - STAIRWELLS	4	
2 2 1	9	CORRIDOR 102	3/4" EMT	20 A	1					360 VA	718 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	LT 113, 114, 115, 120 119, 118, 117, C116	6	
1	9		(2) #12 THHN, #12G, 3/4" EMT	20 A	1	540 VA	1260 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 106	8	
		RECEPTACLES CLASS 107	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			900 VA	1620 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS C102	10	
1		RECEPTACLES CORRIDOR 102	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					540 VA	720 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES 117, 118, 119, 120	12	
		RECEPTACLES CLASS 101	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	1440 VA	1482 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	LT - CORRIDOR C102	14	
1		RECEPTACLES CLASS 103	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			1620 VA	720 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES DATA 126	16	
1	17	LT - 101, 102, 103	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					1452 VA	1752 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	LT - 104, 105, 106, 107	18	
1		RECEPTACLES 122, 123, 124, 125	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	720 VA	1440 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 104	20	
2		RECEPTACLES CLASS 105	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			1440 VA	360 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	C102A FLOOR RECEPTACLES	22	
2		RECEPTACLES SGI 113	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					720 VA	360 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	WATER FOUNTAINS LOWER LEVEL	24	2
1 2	25	FIRE ALARM NAC#1	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	580 VA	360 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES COPY 115	26	
2		ELEVATOR PIT RCPT& LIGHTS	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			330 VA	540 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES COPY 115	28	
2		ELEVATOR SUMP PUMP	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					180 VA	720 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES SGI 114	30	
3	31	DOOR OPENER	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	1000 VA	1080 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLE 107	32	
3	33	SPARE		20 A	1			0 VA	360 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	CORRIDOR RECEPTACLE	34	
3	35	SPARE		20 A	1					0 VA	147 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	STORAGE AND STAIR LIGHTS	36	
3	37	SPARE		20 A	1	0 VA	1000 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	BMS CONTROL PANEL 116, 120	38	
3	39	SPARE		20 A	1			0 VA	500 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	BMS CONTROL PANEL 126	40	
4	11	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	42	
			1	1		114	54 VA	9207	7 VA	7655	5 VA						
OTES:						9	7 A	79	A	64	A						

		Supply Mou	ation: MECHANICAL RC From: EXISTING TRANS nting: Surface psure: NEMA 1 Indoor					Volts: Phases: Wires:		Wye				Mains Type: MC Mains Rating: 600 MCB Rating: 600 AIC Rating: 22,	A A		
OTES	CKT NO.	CIRCUIT DESCRIPTION	CONDUCTORS	CB SIZE	POLES		A	Е	8	c		POLES	CB SIZE	CONDUCTORS	CIRCUIT DESCRIPTION	CKT NO.	NOTES
		ROOF TOP RECEPTACLE	(2) #12 THWN, #12G, 3/4"C	20 A	1	180 VA	540 VA			-		1	20 A	(2) #12 THWN, #12G, 3/4" EMT	RECEPTACLES MAINT. 116	2	
1	3	ACCU-A	(2) #12 THWN, #12G,	20 A	2			261 VA	11454 VA							4	
I	5	ACCU-A	3/4"C	20 A	2					261 VA	9207 VA	3	150 A	(4) #1/0 THHN, #6G, 1-1/2"C	LVNW1	6	2
	7					10477 VA	7655 VA									8	
	9	ACNW1	(4) #1/0 THHN, #6G, 1-1/2"C	150 A	3			12754 VA	50 VA			1	20 A	(2) #12 THWN, #12G, 3/4" C	CIRCULATING PUMP P-15	10	3
	11		1 1/2 0							12684 VA	11818 VA					12	
	13					4892 VA	12014 VA					3	150 A	(4) #1/0 THHN, #6G, 1-1/2"C	LVNW2	14	2
3		EXISTING SEWAGE EJECTOR PUMP	(3) #8 THHN, #10G, 3/4"C	50 A	3			4892 VA	12081 VA							16	
	17									4892 VA	5643 VA					18	
	19					11200 VA	5643 VA					3	70 A	(3) #4 THWN, #8G, HP-1 1"C		20	1
1	21	RTU-3	(3) #3 THWN, #8G, 1-1/4"C	100 A	3			11200 VA	5643 VA							22	
	23		1-1/4 0							11200 VA	13700 VA					24	
	25					15000 VA	13700 VA					3	125 A	(3) #1 THWN, #6G, 1-1/2"C	RTU-1	26	1
1	27	RTU-2	(3) #1/0 THWN, #6G, 1-1/2"C	150 A	3			15000 VA	13700 VA					1-1/2 0		28	
	29		1-1/2 0							15000 VA	1373 VA	0	20.4	(2) #12 THHN,		30	
	31					6167 VA	1373 VA					2	20 A	#12G, 3/4" C	PUMP P-1A	32	
3	33	HOT WATER HEATER P-13	(3) #8 THHN, #10G, 3/4"C	50 A	3			6167 VA	1373 VA					(2) #12 THHN,		34	
	35		5/4 C							6167 VA	1373 VA	2	20 A	#12G, 3/4" C	PUMP P-1B	36	3
	37	ELEVATOR CAB	(2) #12 THHN, #12G, 3/4" C	20 A	1	500 VA	915 VA					0		(2) #12 THHN,		38	
	39							1633 VA	915 VA			2	20 A	#12G, 3/4" C	PUMP P-2A	40	3
	41	ELEVATOR - SHUNT TRIP	(3) #8 THHN, #10G, 1" C	35 A	3					1633 VA	915 VA	0	00.1	(2) #12 THHN,		42	
	43					1633 VA	915 VA					2	20 A	#12G, 3/4" C	PUMP P-2B	44	3
	45		(2) #12 THWN, #12G,	00.4				261 VA	500 VA			1	20 A	(2) #12 THHN, #12G, 3/4" C	SPINKLER SYSTEM AIR COMPRESSOR	46	3
	47	ACCU-B	3/4"C	20 A	2					261 VA		1			SPACE ONLY	48	
	49	ROOF TOP RECEPTACLE	(2) #12 THWN, #12G, 3/4"C	20 A	1	180 VA						1			SPACE ONLY	50	
	51	SPACE ONLY			1							1			SPACE ONLY	52	
	53	SPACE ONLY			1							1			SPACE ONLY	54	

1 - EXTEND CONDUCTORS IN EMT TYPE CONDUIT WITHIN THE BUILDING. EXTEND LFMC TYPE CONDUIT THROUGH ROOF PENETRATIONS FOR CONNECTION TO EQUIPMENT. EXTEND LFMC TYPE CONDUIT FROM THE EQUIPMENT DISCONNECT SWITCH TO THE SPECIFIED UNIT FOR FINAL TERMINATION, AS REQUIRED. 2 - EXTEND CONDUCTORS IN EMT TYPE CONDUIT BETWEEN PANELBOARD CONNECTIONS. 3 - EXTEND CONDUCTORS IN EMT TYPE CONDUIT TO EQUIPMENT DISCONNECT SWITCH. EXTEND FMC TYPE CONDUIT WITH THHN CONDUCTORS FROM DISCONNECT SWITCH TO MECHANICAL EQUIPMENT.

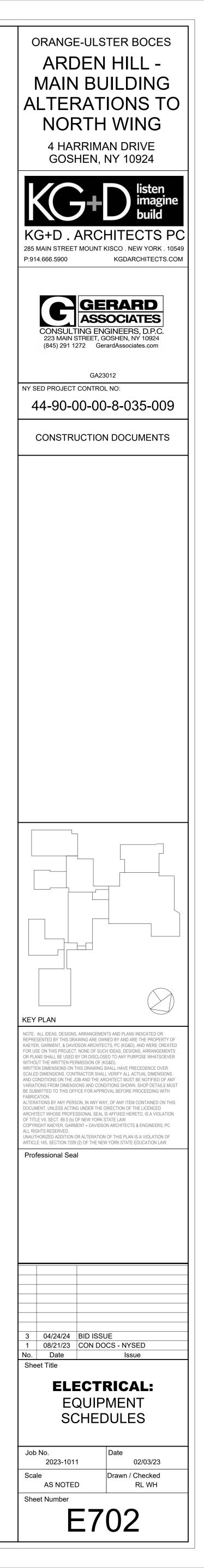
Branch Panel: LVNW1

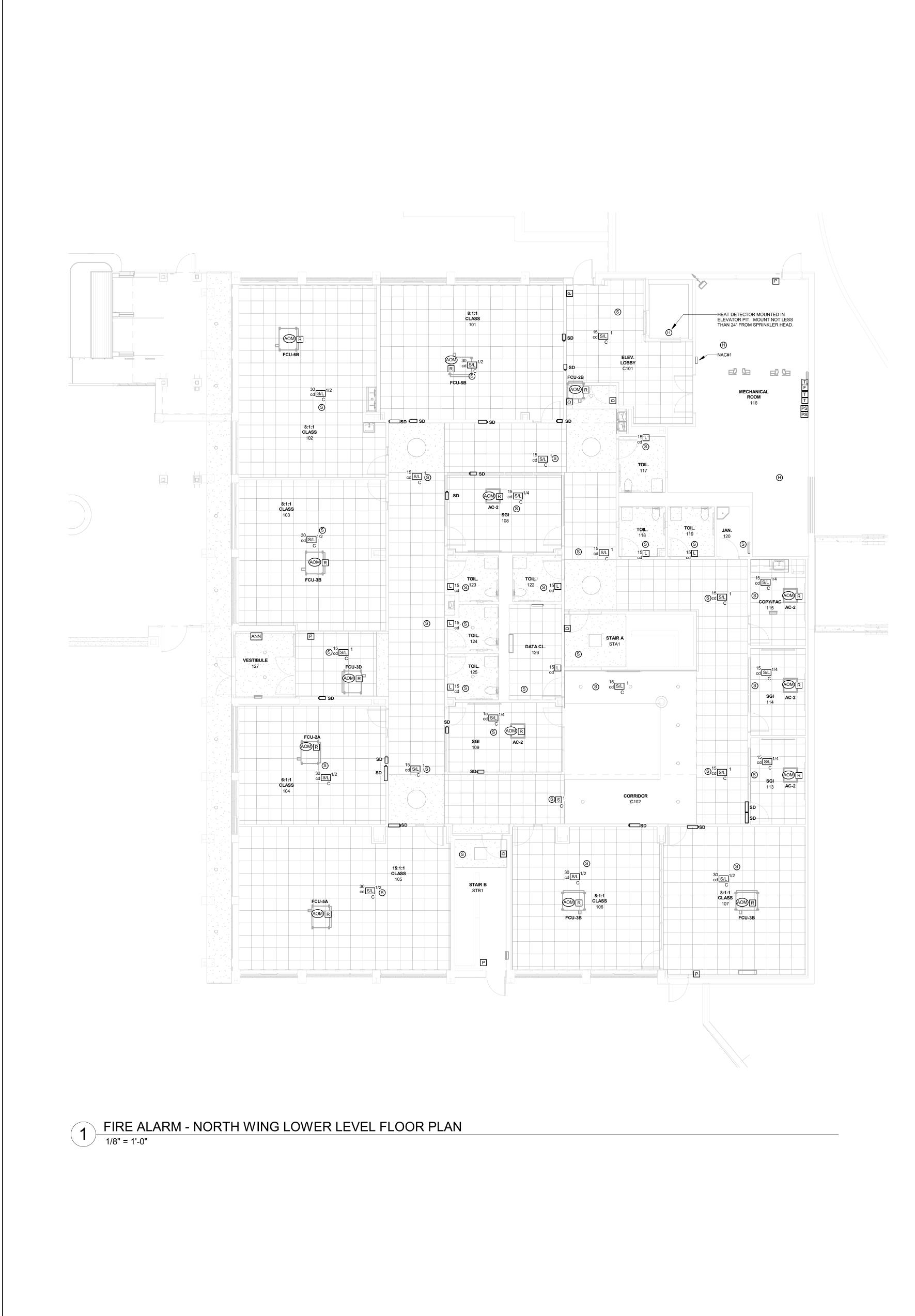
____ ____ _____ 2 _____ 1 27 _____ 1 29 _____ 2 3 _____ 33 _____ 3 3 — 3 39 _____ 3 11 NOTES:

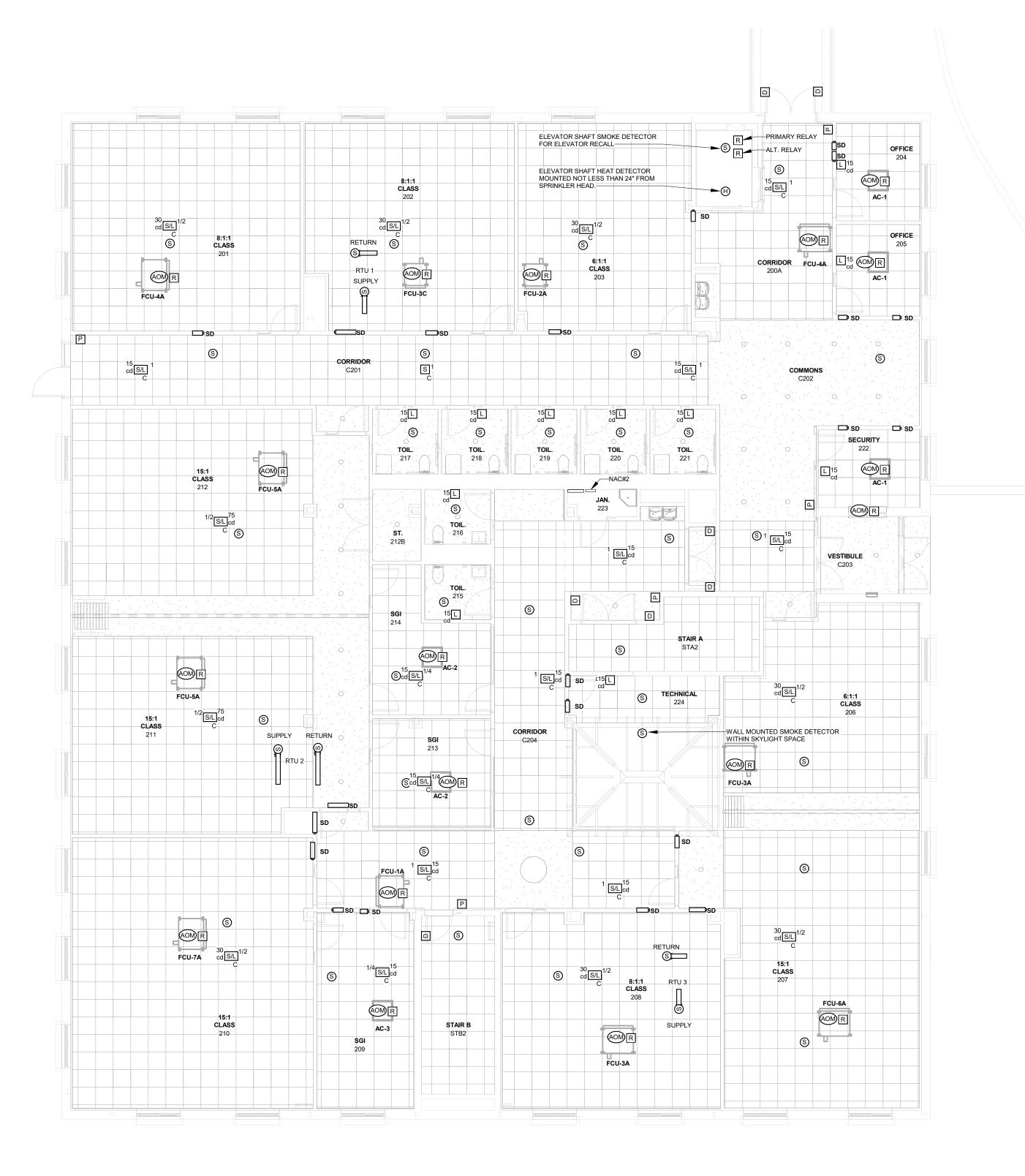
		Supply F Mou	ation: MECHANICAL RC From: MNW1 nting: Surface psure: NEMA 1 Indoor	DOM 116			I	Volts: Phases: Wires:		Wye				Mains Type: ML0 Mains Rating: 200 AIC Rating: 10,0	A		
OTES	CKT NO.	CIRCUIT DESCRIPTION	CONDUCTORS	CB SIZE POLE				вс				POLES	CB SIZE	CONDUCTORS	CIRCUIT DESCRIPTION	CKT NO.	NOTE
1	1	CONDENSATE PUMPS 2ND FL	(2) #12 THHN, #12G, 3/4" C	20 A	1	372 VA	A 651 VA		,			1	20 A	(2) #12 THHN, #12G, 3/4" C	CONDENSATE PUMPS 2ND FL	2	1
1	3	CONDENSATE PUMPS 1ST FL	(2) #12 THHN, #12G, 3/4" C	20 A	1			372 VA	1076 VA							4	
1	5	CONDENSATE PUMPS 1ST FL	(2) #12 THHN, #12G, 3/4" C	20 A	1					465 VA	1076 VA	3	15 A	(3) #12 THHN, #12G, 3/4" C	FCU-7A, FCU-1A CLASS 210, CORR C204	6	1
	7					720 VA	1076 VA								0201	8	
1	9		(3) #12 THHN, #12G, 3/4" C	15 A	3			720 VA	720 VA							10	
	11		5/4 0							720 VA	720 VA	3	15 A	(3) #12 THHN, #12G, 3/4" C	FCU-2B, FCU-5B LOBBY C101, CLASS 101	12	1
	13					1126 VA	720 VA							0,4 0		14	
1	15		(3) #12 THHN, #12G, 3/4" C	15 A	3			1126 VA	1031 VA							16	
	17		5/4 0							1126 VA	1031 VA	3	15 A	(3) #12 THHN, #12G, 3/4" C	FCU-3B, FCU-3B CLASS 106, 107	18	1
	19					1031 VA	1031 VA							3/4 0		20	
1	21		(3) #12 THHN, #12G, 3/4" C	15 A	3			1031 VA	1126 VA							22	
	23									1031 VA	1126 VA	3	15 A	(3) #12 THHN, #12G, 3/4" C	FCU-6B, FCU-3B CLASS 102, 103	24	1
	25					1080 VA	1126 VA							0,4 0		26	
1	27		(3) #12 THHN, #12G, 3/4" C	15 A	3			1080 VA	1385 VA						FCU 3D, FCU-2A,	28	
	29		0,4 0							1080 VA	1385 VA	3	15 A	(3) #12 THHN, #12G, 3/4" C	FCU-5A CORR C102, CLASS	30	1
	31	CEILING CASSETTE		45.4	0	200 VA	1385 VA							5/4 0	104, 105	32	
1	108, 109, 113, 114, 33 115		#12G, 3/4" C	15 A	2			200 VA	1500 VA			0	00.4	(2) #12 THHN,	ELECTRIC HEATER	34	
1	35		(2) #12 THHN, #12G, 3/4" C	20 A	1					465 VA	1500 VA	2	20 A	#12G, 3/4" C	EH-B	36	- 1
1	37		(2) #12 THHN, #12G, 3/4" C	20 A	1	144 VA	0 VA					1	20 A		Spare	38	
1	39		(2) #12 THHN, #12G, 3/4" C	20 A	1			1500 VA	0 VA			1	20 A		Spare	40	
1	41	MOTORIZED DAMPERS	(2) #12 THHN, #12G, 3/4" C	20 A	1					1150 VA	0 VA	1	20 A		Spare	42	
		1	1				77 VA 7 A	1275 109		12684 109				1		1	<u>.</u>

E	Branch Pan	el: LVNW2																	
	Supply I Mou	ation: JAN. 223 From: MNW1 nting: Surface ssure: NEMA 1 Indoor				I	Volts: Phases: Wires:		Wye			Mains Type: MLO Mains Rating: 200 A AIC Rating: 10,000 A							
CKT NO.	CIRCUIT DESCRIPTION	CONDUCTORS	CB SIZE	POLES		A	E	3	c		POLES	CB SIZE	CONDUCTORS	CIRCUIT DESCRIPTION	CKT NO.	NOTES			
1	LT - TOILETS & JANITORS CLOSET	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	220 VA	900 VA		-			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES SGI 213	2				
3	RECEPTACLE SECURITY 222	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			720 VA	900 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES SGI 214	4				
5	RECEPTACLES TECH 224	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					720 VA	954 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	LT - CORRIDOR C204	6				
7	LT - C200, C201, C202, C203	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	1139 VA	1260 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 206	8				
9	LT - 206, 207, 208, 222	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			1399 VA	1620 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 210	10				
11	RECEPTACLES CLASS 201	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					1440 VA	1620 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 203	12				
13	LT -201, 202, 203, 204, 205	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	1364 VA	1620 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 202	14				
15	RECEPTACLES CLASS 211	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			1620 VA	360 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CORRIDOR C202	16				
17	LT - 209, 210, 211, 212, 212B, 213, 214	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					1932 VA	360 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CORRIDOR C204	18				
19	RECEPTACLES CORRIDOR C201	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	360 VA	1260 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 212	20				
21	RECEPTACLES SGI 209	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			1260 VA	1440 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES CLASS 208	22				
23	RECEPTACLES TOILETS	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					1260 VA	1440 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	RECEPTACLES OFFICE 204, 205	24				
25	RECEPTACLES CLASS 207	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	1440 VA	360 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	WATER FOUNTAIN RECEPTACLES	26	4			
27	EF-2	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			420 VA	644 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	MOTORIZED DAMPERS	28				
29	EF-1	(2) #12 THHN, #12G, 3/4" EMT	20 A	1					540 VA	0 VA	1	20 A	(2) #12 THHN, #12G, 3/4" EMT	DIGITAL SIGN	30				
31	FIRE ALARM NAC#2	(2) #12 THHN, #12G, 3/4" EMT	20 A	1	580 VA	1000 VA					1	20 A	(2) #12 THHN, #12G, 3/4" EMT	DOOR OPENER	32				
33	RECEPTACLE JANITOR 223	(2) #12 THHN, #12G, 3/4" EMT	20 A	1			180 VA	1000 VA			1	20 A	(2) #12 THHN, #12G, 3/4" EMT	BMS CONTROL PANEL 223, 224	34				
35	CEILING CASSETTES	(2) #12 THHN, #12G,	15 A	2					315 VA	0 VA	1	20 A		SPARE	36				
37	C204, 205, 209, 213, 214, 222	3/4" C	10 A	~	315 VA	0 VA					1	20 A		SPARE	38				
39	CONDENSATE PUMPS	(2) #12 THHN, #12G, 3/4" C	20 A	1			558 VA	0 VA			1	20 A		SPARE	40				
41	ELECTRIC HEATER EH-A	(2) #12 THHN, #12G, 3/4" C	20 A	1					1500 VA	0 VA	1	20 A		SPARE	42				
						18 VA	1201		1208]								
					98	8 A	10	JA	101	A									

1 - EXTEND CONDUCTORS IN EMT TYPE CONDUIT WITHIN THE BUILDING. EXTEND LFMC TYPE CONDUIT THROUGH ROOF PENETRATIONS FOR CONNECTION TO EQUIPMENT. EXTEND LFMC TYPE CONDUIT FROM THE EQUIPMENT DISCONNECT SWITCH TO THE SPECIFIED UNIT FOR FINAL TERMINATION, AS REQUIRED. 2 - CIRCUIT BREAKER SHALL BE LOCKABLE IN THE CLOSED POSITION. 3 - EXTEND CONDUCTORS IN EMT TYPE CONDUIT TO EQUIPMENT DISCONNECT SWITCH. EXTEND FMC TYPE CONDUIT WITH THHN CONDUCTORS FROM DISCONNECT SWITCH TO MECHANICAL EQUIPMENT. 4 - CIRCUIT BREAKER SHALL BE CLASS A GFCI TYPE.

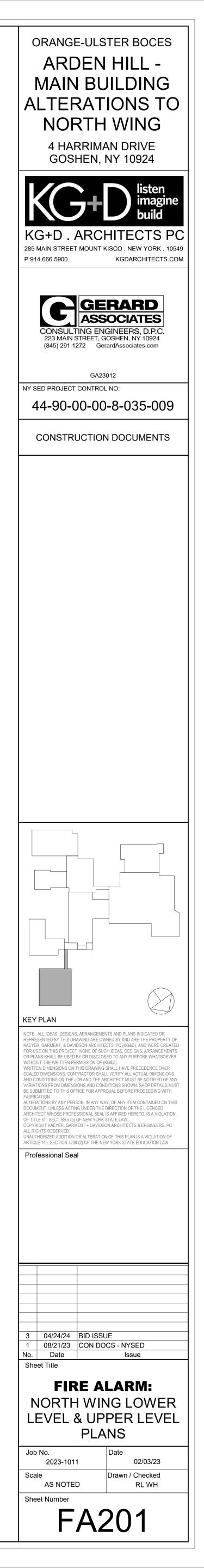


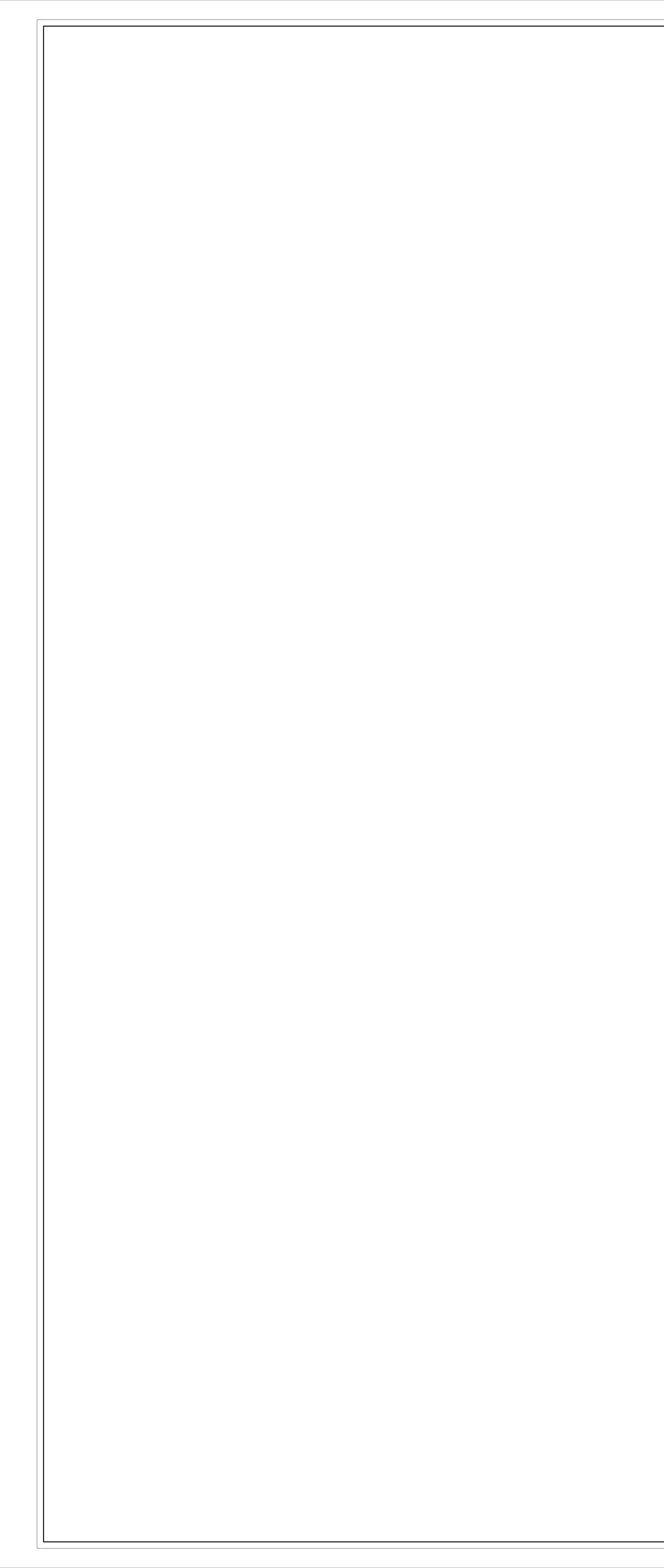




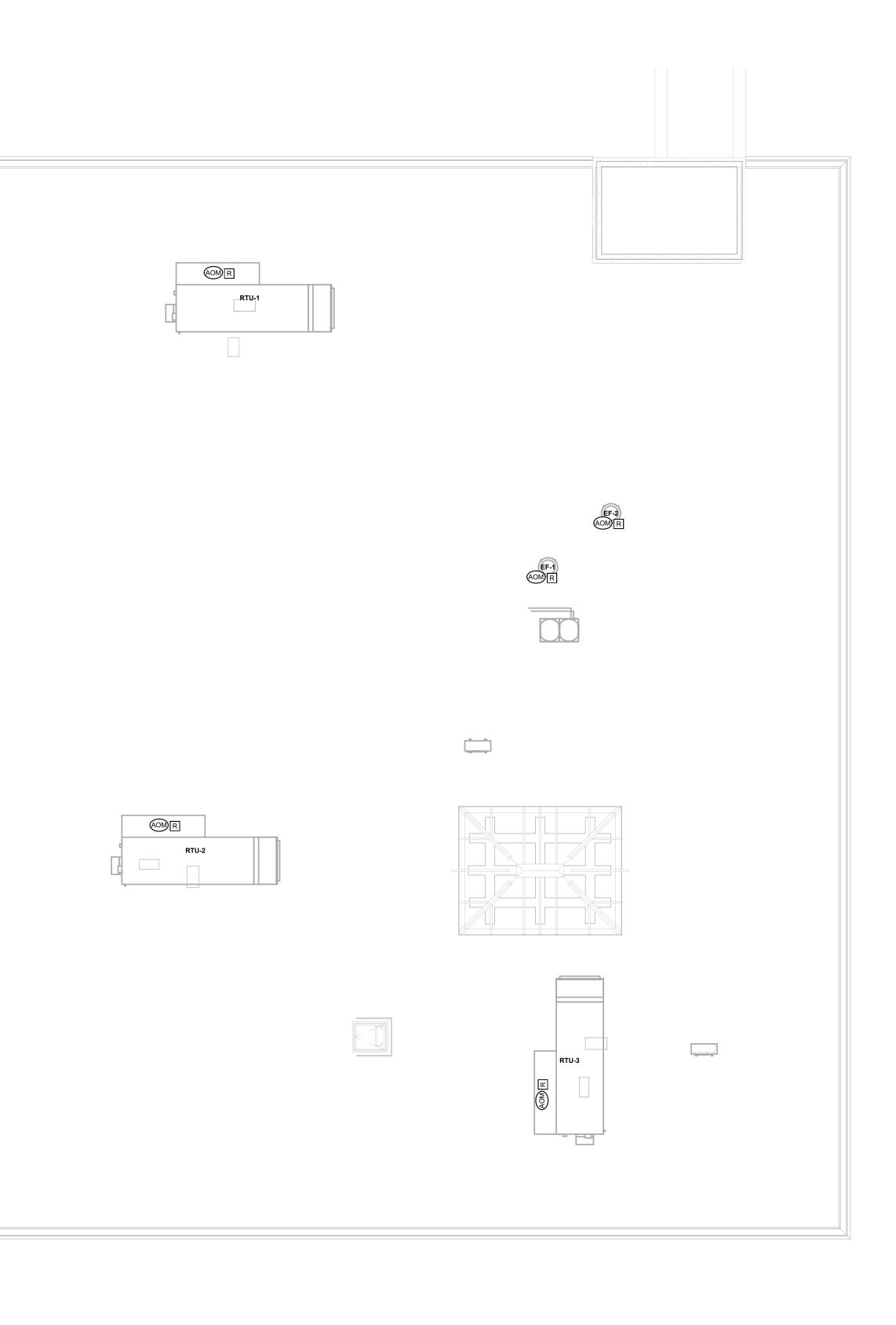


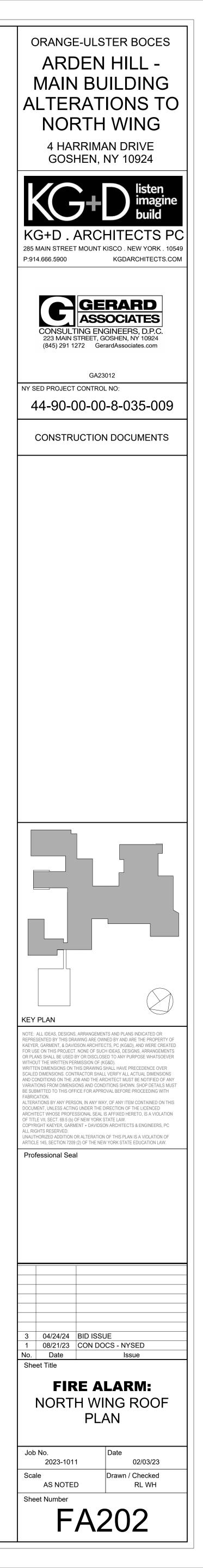
2 FIRE ALARM - NORTH WING UPPER LEVEL FLOOR PLAN 1/8" = 1'-0"

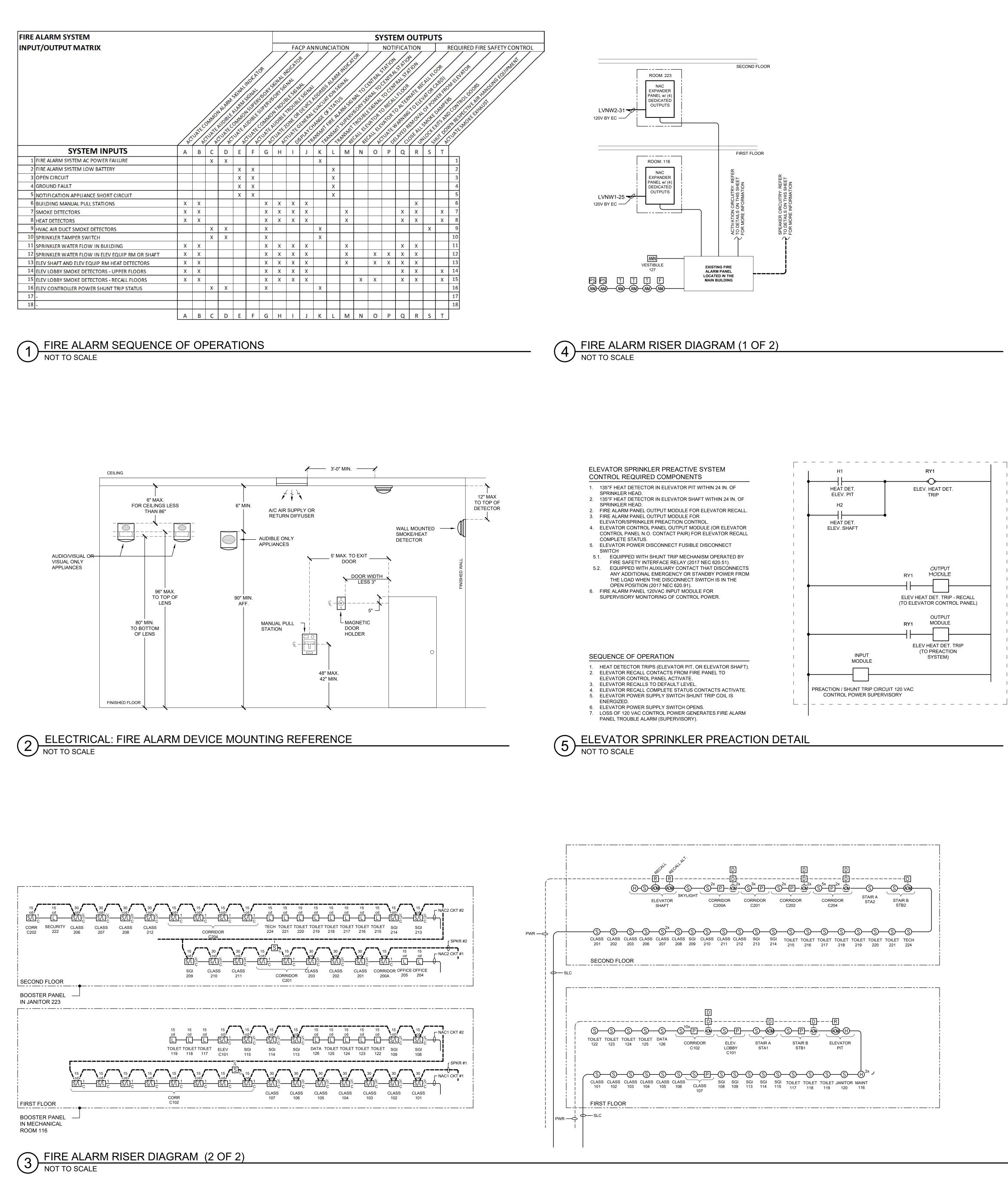










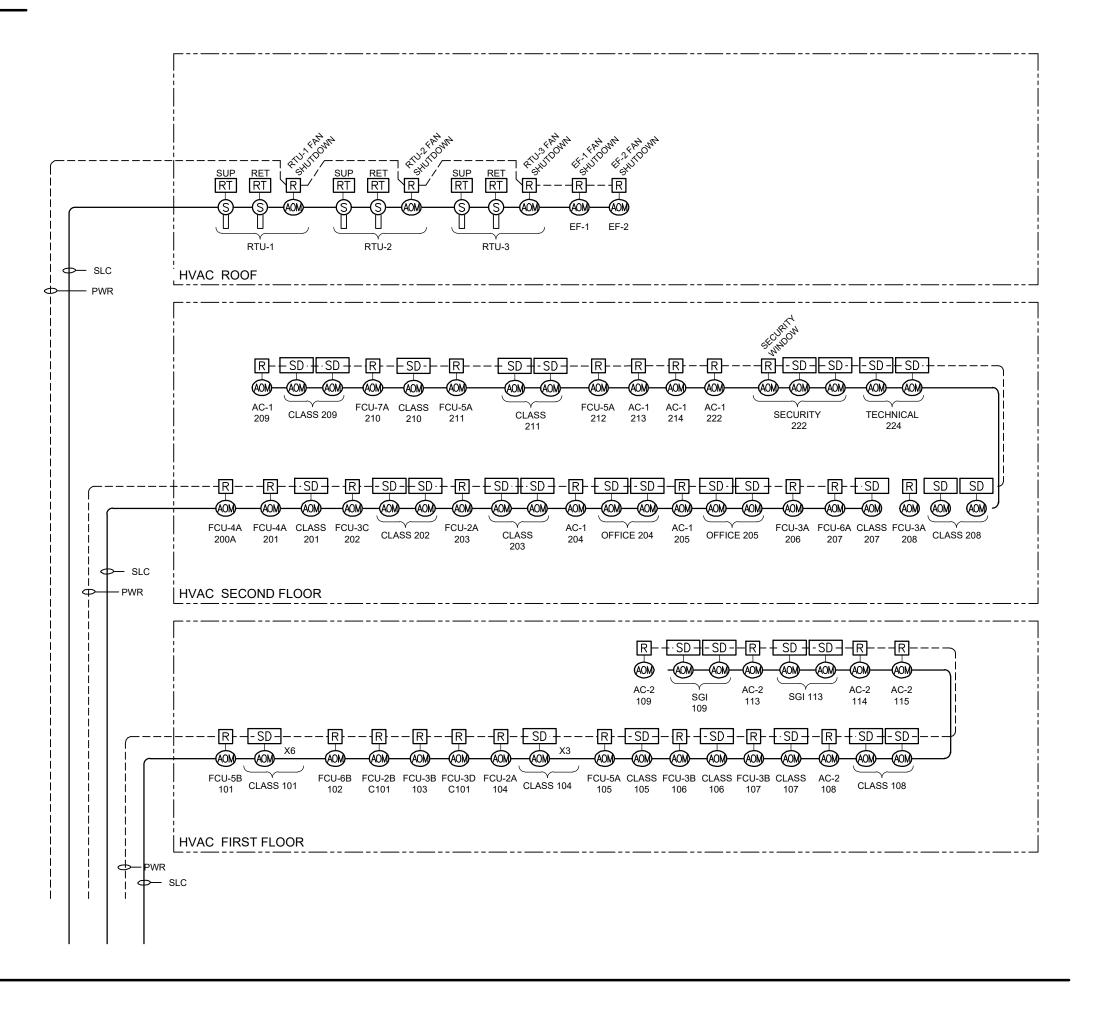


	-		E ALARM EQUIPMENT SCHEDULE
SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
ANN			LCD REMOTE ANNUNCIATOR. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND $\frac{3}{4}$ " EMT WITH DRAG LINE TO ACCESSIBLE LOCATION ABOVE CEILING.
I			CEILING MOUNTED FIRE ALARM SPEAKER/STROBE LIGHT WITH MINIMUM FIELD SELECTABLE OUTPUT OF 1/4, 1/2, 1, & 2 WATTS AND 15, 30, 75 & 110 CANDELAS. COLOR: RED. LABEL: 'FIRE'
S/L # cd C			 "cd" - MINIMUM CANDELA SETTING "#" - MINIMUM DESIGN TAP SETTING - CAN BE ADJUSTED LOWER IN FIELD AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS.
			ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND $\frac{3}{4}$ " EMT WITH DRAG LINE TO ACCESSIBLE LOCATION IN CASE WHERE DEVICE IS MOUNTED IN INACCESSIBLE CEILING / WALL LOCATION.
L [#]			WALL MOUNTED FIRE ALARM STROBE LIGHT WITH MINIMUM FIELD SELECTABLE OUTPUT OF 15, 30, 75 CANDELAS. COLOR: RED. LABEL: 'FIRE'. "cd" - MINIMUM CANDELA SETTING
			ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND $3\!\!\!/4$ " EMT WITH DRAG LINE TO ACCESSIBLE LOCATION ABOVE CEILING.
			CEILING MOUNTED FIRE ALARM SPEAKER WITH MINIMUM FIELD SELECTABLE OUTPUT AUDIO OUTPUT OF 1/4, 1/2, 1, & 2 WATTS. COLOR: RED. LABEL: 'FIRE'.
S _c			 "#" - MINIMUM DESIGN TAP SETTING - CAN BE ADJUSTED LOWER IN FIELD AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS. CEILING MOUNTED
			ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND $\frac{3}{4}$ " EMT WITH DRAG LINE TO ACCESSIBLE LOCATION IN CASE WHERE DEVICE IS MOUNTED IN INACCESSIBLE CEILING / WALL LOCATION.
Ρ			DOUBLE ACTION ADDRESSABLE MANUAL PULL STATION WITH TAMPER-PROOF CLEAN POLYCARBONATE SHIELD HINGED AT TOP. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND $\frac{3}{4}$ " EMT WITH DRAG LINE TO ACCESSIBLE LOCATION ABOVE CEILING.
S			ADDRESSABLE OPTICAL SMOKE DETECTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND $\frac{3}{4}$ " EMT WITH DRAG LINE TO ACCESSIBLE LOCATION IN CASE WHERE DEVICE IS MOUNTED IN INACCESSIBLE CEILING / WALL LOCATION.
Θ			ADDRESSABLE HEAT DETECTOR ACTUATED BY A FIXED TEMPERATURE OF 135°F OR A RATE OF RISE OF THAT EXCEEDS 15°F PER MINUTE. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND ¾" EMT WITH DRAG LINE TO ACCESSIBLE LOCATION IN CASE WHERE DEVICE IS MOUNTED IN INACCESSIBLE CEILING / WALL LOCATION.
S=			ADDRESSABLE DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBE. PROVIDE WITH KEYED REMOTE TEST STATION. DETECTOR INSTALLED ON SUPPLY AND RETURN DUCTWORK UPSTREAM OF FAN OR FILTERS OF INDICATED SYSTEM. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR MEASURING EXISTING DUCTWORK FOR SAMPLING TUBE SIZE. DETECTOR SHALL BE INSTALLED IN WEATHERPROOF ENCLOSURE IN CASE OF ROOF MOUNTED DUCTWORK INSTALLATION.
R			AUXILIARY RELAY
RT			KEY ACTIVATED REMOTE TEST STATION. TEST STATION SHALL BE INSTALLED WITH WEATHERPROOF COVER WHEN INSTALLED ON ROOF IN CASE OF ROOF MOUNTED DUCTWORK.
D			MAGNETIC DOOR HOLDER. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND REFER TO DOOR HARDWARE SCHEDULE FOR REQUIRED CONTROL AND MOUNTING AT EACH INDICATED LOCATION. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METAL BOX AND ³ / ₄ " EMT WITH DRAG LINE TO ACCESSIBLE LOCATION ABOVE CEILING.
F			SPRINKLER FLOW SWITCH
 			SPRINKLER TAMPER SWITCH
			ADDRESSABLE MONITOR MODULE
			ADDRESSABLE CONTROL MODULE
SD			SMOKE DAMPER - HOUSING PROVIDED BY MECHANICAL CONTRACTOR, SMOKE DETECTION DEVICE
			BY OWNER'S VENDOR. PRESSURE SWITCH - DEVICE BY THE FIRE PROTECTION CONTRACTOR, OWNER'S VENDOR SHALL E

FIRE ALARM NOTES

1. FIRE ALARM SYSTEM WIRING, NUMBER AND SIZE OF CONDUCTORS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN 18 AWG. COPPER CONDUCTOR.

- 2. FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE, WITH DISCREET ADDRESSES FOR EACH ACTIVATING DEVICE. MAIN PANEL SHALL IDENTIFY DEVICE BY ROOM NAMES AND LOCATIONS TO BE PROVIDED BY THE BUILDING OPERATOR.
- 3. OWNER'S VENDOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH NFPA 72, BUILDING CODE OF NEW YORK STATE AND ALL LOCAL CODES, INCLUDING ALL CIRCUITRY, SMOKE DETECTORS, HEAT DETECTORS, ZONE MODULES, ANNUNCIATION DEVICES, FIRE ALARM PANEL, POWER MODULES, BATTERY BACKUP, MUNICIPAL TIE AND CONNECTION AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THIS DRAWING TO RENDER FIRE ALARM SYSTEM COMPLETE AND OPERATIVE.
- 4. OWNER'S VENDOR SHALL FULLY DEMONSTRATE SYSTEM FUNCTION, OPERATION AND MAINTENANCE OF FIRE ALARM SYSTEM TO OWNER.
- 5. HVAC CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS IN DUCTS. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY OWNER'S VENDOR.
- OWNER'S VENDOR CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, RELAYS AND MISCELLANEOUS EQUIPMENT ASSOCIATED WITH HVAC AIR HANDLER UNIT SHUTDOWN FROM FIRE ALARM PANEL.
- 7. FIRE ALARM SHOP DRAWINGS, WIRE PULLS, TERMINATIONS, INSTALLATION/FURNISHING OF DEVICES, WIRING & EQUIPMENT SHALL BE BY OWNER'S VENDOR. ELECTRICAL CONTRACTOR SHALL FOLLOW RESPONSIBILITIES AS INDICATED ON DRAWINGS. FINAL LOCATIONS SHALL BE BASED ON SHOP DRAWINGS PROVIDED BY OWNER'S VENDOR.



ORANGE-ULSTER BOCES ARDEN HILL -MAIN BUILDING ALTERATIONS TO NORTH WING **4 HARRIMAN DRIVE** GOSHEN, NY 10924 KG+D. ARCHI TECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM GERARD ASSOCIATES CONSULTING ENGINEERS, D.P.O 223 MAIN STREET, GOSHEN, NY 10924 (845) 291 1272 GerardAssociates.com GA23012 NY SED PROJECT CONTROL NO: 44-90-00-00-8-035-009 CONSTRUCTION DOCUMENTS NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KAEYER, GARMENT, & DAVIDSON ARCHITECTS, PC (KG&D), AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF (KGAD). WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN, SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW. COPYRIGHT KAEVER, GARMENT + DAVIDSON ARCHITECTS & ENGINEERS, PC ALL RIGHTS RESERVED. NAUTHORIZED ADDITION OR ALTERATION OF THIS PLAN IS A VIOLATION OF ARTICLE 145, SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW. Professional Seal 3 04/24/24 BID ISSUE 1 08/21/23 CON DOCS - NYSED Date Issue Sheet Title **FIRE ALARM:** DETAILS Job No. 2023-1011 02/03/2023 Drawn / Checked Scale AS NOTED DC/RL SZ/WH Sheet Number FA601