ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE

1835 SHERIDAN DRIVE
BUFFALO , NY 14223



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BID DOCUMENTS
SEPTEMBER 25, 2026

The undersigned Architect/Engineer certifies that to the best of their knowledge, these plans and specifications are in accordance with the applicable requirements of the Building Code of New York State, The Energy Conservation Construction Code of New York State and Education Department Building Standards

LiRo Engineers, Inc.
A LiRo-Hill Company
Buffalo, N.Y. 716-882-5476 [T]

GENERAL NOTES:

1. CONTRACT DOCUMENTS — ALL CONTRACTORS SHALL EXAMINE THE CONTRACT DOCUMENTS, AND REFERENCED, NON-CONTRACTUAL DOCUMENTS, AND SHALL BE INFORMED OF THE ENTIRE CONTENTS THEREOF PRIOR TO SUBMISSION OF PROPOSAL. ANY ERRORS OR AMBIGUITIES NOTED DURING SAID EXAMINATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, PRIOR TO THE SUBMISSION OF A BID. THE ARCHITECT WILL ISSUE AN ADDENDUM OF INTERPRETATION OF THE CITED ERROR OR AMBIGUITY.

NO SUBSEQUENT CLAIM FOR EXTRA WORK WILL BE ALLOWED ON ACCOUNT OF CLAIMED MISUNDERSTANDING OF THE MEANING OR INTENT OF THE CONTRACT DOCUMENTS OF ANY PORTION THEREOF IF THE ITEM OCCASIONING THE CLAIM APPEARED IN, OR WAS INFERABLE FROM, SAID CONTRACT DOCUMENTS AS FURNISHED FOR BIDDING. CONTRACTORS PROPOSE TO PROVIDE ALL REQUIRED MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

2. CODES — ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE 2020 BUILDING CODES OF NEW YORK STATE, ICC/ANSI 117.1-2017, OSHA REGULATIONS, AND ALL AGENCIES HAVING JURISDICTION OF THIS PROJECT.

3.EXISTING CONDITIONS — ALL CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AT THE SITE PRIOR TO BID, COMMENCING WORK, AND FABRICATION OF ANY MATERIALS. CONTRACTORS SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT PRIOR TO CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, EXISTING UTILITIES.

4.SAFETY — IMPLEMENTING JOB SITE SAFETY CONSTRUCTION PROCEDURES AND COMPLIANCE WITH ALL (OSHA) RELATED SAFETY REGULATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTORS AND THEIR SUBCONTRACTORS.

THE FOLLOWING SHALL BE MAINTAINED AND/OR PROVIDED IN COMPLIANCE WITH CURRENT OSHA STANDARDS IN ADDITION TO ALL OTHER GOVERNING CODES AND ORDINANCES:

- ADEQUATE EXITS AND UNOBSTRUCTED ACCESS TO SUCH SHALL BE MAINTAINED
- VISIBLE EXIT SIGNAGE SHALL BE PROVIDED OR MAINTAINED
- FIRE PROTECTION PROGRAM AS WELL AS EQUIPMENT SHALL BE PROVIDED BY CONTRACTOR
- ACCESS TO A SUFFICIENT WATER SUPPLY SHALL BE AVAILABLE UPON ACCUMULATION OF COMBUSTIBLE MATERIAL
- FIRE EXTINGUISHING DEVICES AND EQUIPMENT OF PROPER RATING, STANDARD, AND LOCATION
- SERVICE OF FIRE RESPONSE SYSTEMS SHALL BE MAINTAINED AND CHECKED DAILY TO INSURE THAT PROTECTION IS IN SERVICE. INSIDES OF ALL ELECTRICAL AND TELEPHONE ROOMS.

5. MEANS AND METHODS — THE MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTORS AND THEIR SUBCONTRACTORS. ALL CONTRACTORS ARE RESPONSIBILE TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FORMWORK, STAGING, BRACING, SHEETING AND SHORING, RESHORING, ETC. —THIS INCLUDES THAT REQUIRED FOR THE CONTRACTOR VEHICLES, FORKLIFTS, MOBILE CRANES, MATERIALS STORAGE, ETC.

6. COORDINATION — ALL CONTRACTORS AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR THE THOROUGH COORDINATION OF THE WORK WITH EACH OTHER. OBTAIN ALL NECESSARY INFORMATION REQUIRED FOR A WELL-COORDINATED INSTALLATION OF THE WORK. NO CLAIMS FOR ADDITIONAL WORK WILL BE ACCEPTED FOR WORK RELATED TO SUCH COORDINATION.

7. JOB SITE — EACH CONTRACTOR SHALL KEEP THE JOB SITE FREE OF DEBRIS AND IS RESPONSIBLE FOR DAILY CLEAN UP. ROADWAYS AND SIDEWALKS SHALL BE KEPT FREE OF DEBRIS. TRASH CONTAINERS SHALL BE EMPTIED IN A TIMELY MANNER.

8. PROTECTION AND RESTORATION — ALL CONTRACTORS AND THEIR SUBCONTRACTORS SHALL PROTECT AND NOT DAMAGE EXISTING FINISHES, EQUIPMENT, PROPERTY, ETC. DURING THE WORK. ALL DAMAGED AREAS SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITIONS.

ALL CONTRACTORS SHALL RESTORE EXISTING WALL ASSEMBLIES TO MATCH EXISTING CONSTRUCTION AND FINISH AS REQUIRED AT ALL NEW PENETRATIONS AND OPENINGS. ALL ABANDONED OPENINGS AT WALLS, ROOF, OR FLOOR SHALL BE INFILLED WITH PERMANENT CONSTRUCTION.

WHERE REMOVAL OF EXISTING CONSTRUCTION RESULTS IN DEPRESSIONS AND/OR UNEVEN CONDITIONS, PATCH, LEVEL, AND FEATHER AREAS AS REQUIRED TO PROVIDE UNIFORMITY OF NEW CONSTRUCTION.

9. FIRE RATINGS — THE EXISTING MEANS OF FIRE RATING, INCLUDING BUT NOT LIMITED TO RATED WALL AND FLOOR ASSEMBLIES, FIRE STOPS, DRAFT STOPS, PENETRATION, AND FIRE SAFING, MUST BE MAINTAINED. FIRE ALARM, SPRINKLER AND STANDPIPE SYSTEMS SHALL BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES. FIRE PROTECTION SYSTEMS DISTURBED OR DAMAGED DUE TO CONSTRUCTION ACTIONS, SHALL BE REPAIRED BY THE CONTRACTOR TO MAINTAIN FIRE RATINGS AND PROTECTIONS.

10. FACILITY OPERATIONS — CARE SHALL BE TAKEN TO AVOID DISTURBANCE OF ADJACENT FUNCTIONS/BUILDINGS. ALL WORK, DELIVERIES AND OTHER CONSTRUCTION RELATED ACTIVITIES SHALL ADHERE IN STRICT ACCORDANCE TO LOCAL RESTRICTIONS AND CONDITIONS. CONTRACTORS ARE TO HAVE A COPY OF SAID REQUIREMENTS AND CONDITIONS AVAILABLE AT THE JOB SITE AT ALL TIMES FOR REVIEW.

11. QUALITY — ALL CONTRACTORS SHALL PROVIDE ALL MATERIALS INDICATED GRAPHICALLY OR AS NOTED. ALL MATERIALS USED IN CONSTRUCTION SHALL BE NEW AND FREE FROM DEFECTS. INSTALL ALL MATERIALS TO THE MANUFACTURERS 'S RECOMMENDATIONS AND TO ACCEPTABLE PROFESSIONAL TRADE INDUSTRY STANDARDS FOR WORK OF SIMILAR SCOPE AND CHARACTER. WORK SHALL NOT VOID ANY WARRANTIES OR IMPEDE THE PERFORMANCE OF ANY INSTALLED SYSTEM.

ALL WORK OF THE PROJECT SHALL BE PERFORMED CAREFULLY AND SKILLFULLY BY WORKERS ADEPT IN THEIR TRADES. SHOULD ANY MATERIAL OR WORKMANSHIP BE FOUND TO BE DEFECTIVE, IT SHALL BE REPLACED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

12. DRAWINGS — DO NOT SCALE DRAWINGS. ALL WALL, PARTITION, AND STRUCTURAL DIMENSIONS ARE ACTUAL AND ARE DIMENSIONED TO THE FACE OF THE PARTITION, UNLESS INDICATED OTHERWISE. ALL DIMENSIONS, NOTES, AND DETAILS SHOWING A PORTION OF A DRAWING SHALL APPLY TYPICALLY TO ALL OPPOSITE HAND AND/OR SIMILAR CONDITIONS. CONTRACTORS SHALL VERIFY ALL DIMENSIONS IN THE FIELD AS REQUIRED FOR THE SCOPE OF WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

13. INCIDENTAL BLOCKING — PROVIDE ALL INCIDENTAL WOOD BLOCKING AS REQUIRED FOR ATTACHMENT OF FINISHES, AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO MILLWORK, CASEWORK, AND COUNTERTOPS.

14. INSPECTIONS — CONTRACTORS SHALL BE RESPONSIBLE FOR MAKING ARRANGEMENTS FOR ALL REQUIRED INSPECTIONS.

15. OWNER-PROVIDED EQUIPMENT — ALL CONTRACTORS SHALL OBTAIN ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT FROM OWNER PRIOR TO INSTALLATION.

16. HAZARDOUS MATERIALS — TESTING WAS PERFORMED PRIOR TO THE PROJECT TO IDENTIFY HAZARDOUS MATERIALS THAT MAY BE DISTURBED BY THE PLANNED DEMOLITION.

REFER TO THE SURVEY REPORT BY REQUEST TO THE OWNER FOR A LIST OF BUILDING COMPONENTS ASSOCIATED WITH THE PROPOSED RENOVATIONS IDENTIFIED TO BE ASBESTOS OR LEAD-CONTAINING, IF ANY.

FURNISHING OF THIS INFORMATION IS NOT INTENDED TO RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITIES UNDER OSHA TO DETERMINE THE PRESENCE, LOCATION, AND QUANTITY OF EXISTING LEAD-CONTAINING MATERIALS THAT THEIR EMPLOYEES MAY BE EXPOSED TO, AND TO WARN THEIR EMPLOYEES OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF ASBESTOS OR LEAD-CONTAINING MATERIALS.

ALL CONTRACTORS ARE RESPONSIBLE FOR MAKING THEMSELVES AND THEIR EMPLOYEES AWARE OF THE PRESENCE, LOCATION, AND QUANTITY OF EXISTING ASBESTOS CONTAINING BUILDING MATERIALS, AND TO WARN THEIR EMPLOYEES OF THE POTENTIAL DANGERS OF EXPOSURE TO ASBESTOS. ANY DISTURBANCE OF ASBESTOS CONTAINING MATERIALS SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR, EMPLOYING CERTIFIED WORKERS.

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION; INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD.

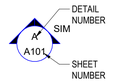
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ANY QUESTIONABLE MATERIAL OR MATERIAL SUSPECTED TO CONTAIN ASBESTOS SHALL NOT BE DISTURBED AND SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR THE OWNER'S REPRESENTATIVE FOR AN ACCURATE INTERPRETATION AND/OR SAMPLING AND ANALYSIS. ASBESTOS TESTING REPORTS ARE AVAILABLE BY REQUEST TO THE OWNER.

ABBREVIATIONS:

AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	OPP	OPPOSITE
ABV	ABOVE	FF/FFL	FINISHED FLOOR	OPH	OPPOSITE HAND
A/C	AIR CONDITIONING	FF&E	FURNITURE, FIXTURE, & EQUIPMENT		
ACT	ACOUSTICAL TILE OR PANEL	FIN	FINISH	PC	PLUMBING CONTRACTOR
ADA	AMERICANS W/ DISABILITIES ACT	FL	FLOOR	PCC	PRECAST CONCRETE
ADD	ADDENDUM	FLM	FLOOR MAT	PCF	POUNDS PER CUBIC FOOT
ADJ	ADJACENT	FND	FOUNDATION	PERF	PERFORATED
AFF	ABOVE FINISHED FLOOR	FOM	FACE OF MASONRY	PL	PLATE / PROPERTY LINE
AFG	ABOVE FINISHED GRADE	FOS	FACE OF STUD	PLAM	PLASTIC LAMINATE
AHU	AIR HANDLING UNIT	FOW	FACE OF WALL	PLBG	PLUMBING
AL/ALUM	ALUMINUM	FR	FRAME	PNT	PAINT / PAINTED
ALT	ALTERNATE / ALTERNATIVE	FRFP	FIREPROOFING	PSF	POUNDS PER SQUARE FOOT
ANOD	ANODIZED	FRP	FIBERGLASS REINFORCEDPLASTIC/	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE		POLYMER	PT	PORCELAIN TILE / PAVER TILE
ARCH	ARCHITECT / ARCHITECTURAL	FT	FEET / FOOT	PVMT	PAVEMENT
ARGWB	ABUSE RESISTANT GYPSUM WALL BOARD	FTG	FOOTING	PVC	POLYVINYL CHLORIDE
ASSY	ASSEMBLY	FURR	FURRING		
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	G	GAS	QT QTY	QUARRY TILE QUANTITY
ATC	ACOUSTICAL TILE OR PANEL/CEILING	GA	GAUGE		
AV	AUDIO VISUAL	GALV	GALVANIZED	R	RADIUS / RISER / THERMAL RESISTANCE
AWG	AMERICAN WIRE GAUGE	GB	GRAB BAR / GRADE BEAM	RA	RETURN AIR
		GC	GENERAL CONTRACTOR	RAD	RADIATOR
BC	BUILDING CODE	GL	GLASS	RB	RUBBER BASE
BD	BOARD	GM	GAS METER	RCP	REFLECTED CEILING PLAN
BFF	BELOW FINISH FLOOR	GND	GROUND	RD	ROOF DRAIN
BITUM	BITUMINOUS	GR	GRADE	REC	RECESSED
BKSPL	BACKSPLASH	GWB	GYPSUM WALL BOARD	RECPT	RECEPTACLE
BLDG	BUILDING	GWBX	GYPSUM WALLBOARD -RATED	REF	REFERENCE
BLK	BLOCK	GYP	GYPSUM	REINF	REINFORCING
BLKG	BLOCKING			REQD	REQUIRED
BM	BEAM / BENCH MARK	H	HIGH	RES	RESILIENT
BOF	BOTTOM OF FOOTING	HB	HOSE BIB	REV	REVISION
BOS	BOTTOM OF STEEL	HC	HANDICAPPED	RH	RIGHT HAND
BTWN	BETWEEN	HDCP	HANDICAP	RHR	RIGHT HAND REVERSE
BTM	BOTTOM	HM	HOLLOW METAL	RL	ROOF LEADER
BTU	BRITISH THERMAL UNIT	HOR	HORIZONTAL	RM	ROOM
BUR	BUILTUP ROOF	HP	HIGH POINT / HORSEPOWER	RO	ROUGH OPENING
		HT	HEIGHT	ROW	RIGHT OF WAY
CAB	CABINET	HVAC	HEATING, VENTILATING, AIR CONDITIONING	RTU	ROOF TOP UNIT
CB	CATCH BASIN	HWD	HARDWARE	RV	ROOF VENT
CEM	CEMENT				
CG	CORNER GUARD	IBC	INTERNATIONAL BUILDING CODE	SD	SMOKE DETECTOR
CGT	CERAMIC GLAZED TILE	IMP	INSULATED METAL PANEL	SF	SQUARE FOOT / SQUARE FEET
CJ	CONTROL JOINT	IN	INCH	SHT	SHEET
CL	CENTERLINE	INCL	INCLUDING / INCLUDED	SIM	SIMILAR
CLG	CEILING	INSUL	INSULATION / INSULATED	SP	SPACE / STAND PIPE
CLO	CLOSET	INT	INTERIOR	SPECS	SPECIFICATIONS
CLR	CLEAR	INV	INVERT	SQ	SQUARE
CLS	CLOSURE	IP	IRON PIPE	SS	STAINLESS STEEL
CMU	CONCRETE MASONRY UNIT	IRGWB	IMPACT RESISTANT GYPSUM WALL BOARD	ST	STORM DRAINAGE LINE
CO	CLEANOUT			STC	SOUND TRANSMISSION COEFFICIENT
COL	COLUMN	JAN	JANITOR	STD	STANDARD
COMB	COMBINATION	JT	JOINT	STL	STEEL
CONC	CONCRETE			STRUCT	STRUCTURAL
COND	CONDENSER	LAB	LABORATORY	SUSP	SUSPENDED
CONF	CONFERENCE	LAM	LAMINATED	SYM	SYMMETRICAL
CONST	CONSTRUCTION	LAV	LAVATORY		
CONT	CONTINUOUS	LB	POUND	TB	THROUGH BOLT
COORD	COORDINATE	LF	LINEAR FOOT / LINEAR FEET	TEL	TELEPHONE
CORR	CORRIDOR / CORRUGATED	LG	LONG	TER	TERRAZZO
CPT	CARPET	LH	LEFT HAND	T&G	TONGUE & GROOVE
CT	CERAMIC TILE	LHR	LEFT HAND REVERSE	THK	THICK
CTR	CENTER	LIN	LINEAR	TO	TOP OF
		LKR	LOCKER	TOC	TOP OF CONCRETE
DEMO	DEMOLISH / DEMOLITION	LLH	LONG LEG HORIZONTAL	TOF	TOP OF FOOTING
DET	DETAIL	LLV	LONG LEG VERTICAL	TOJ	TOP OF JOIST
DF	DRINKING FOUNTAIN	LL	LIVE LOAD	TOP	TOP OF PIER
DH	DOUBLE HUNG	LOC	LOCATION	TOS	TOP OF STEEL
DIA	DIAMETER	LP	LOW POINT	TOW	TOP OF WALL
DIAG	DIAGONAL	LT	LIGHT	TP	TOP OF PAVEMENT
DIFF	DIFFUSER	LVR	LOUVER	TYP	TYPICAL
DIM	DIMENSION	LVT	LUXURY VINYL TILE		
DISP	DISPENSER			UBC	UNIFORM BUILDING CODE
DL	DEAD LOAD	MAX	MAXIMUM	UC	UNDERCUT
DN	DOWN	MB	MACHINE BOLT	UG	UNDERGROUND
DR	DOOR	MC	MECHANICAL CONTRACTOR	UH	UNIT HEATER
DS	DOWN SPOUT	MECH	MECHANICAL	UL	UNDERWRITERS LABORATORIES
DWG	DRAWING	MED	MEDIUM	UNFIN	UNFINISHED
		MTL	METAL	UNO	UNLESS NOTED OTHERWISE
EA	EACH	MEZZ	MEZZANINE	US	UNDERSIDE
EC	ELECTRICAL CONTRACTOR	MFG	MANUFACTURING	UTIL	UTILITY
EF	EXHAUST FAN / EACH FACE	MFR	MANUFACTURER		
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	MH	MANHOLE	VAT	VINYL ASBESTOS TILE
EJ	EXPANSION JOINT	MHT	MOUNTING HEIGHT	VAR	VARIES
EL/ELEV	ELEVATION	MIN	MINIMUM	VCT	VINYL COMPOSITION TILE
ELECT	ELECTRICAL	MISC	MISCELLANEOUS	VERT	VERTICAL
ELEV	ELEVATOR	ML	MATCH LINE	VEST	VESTIBULE
ENCL	ENCLOSURE	MLB	MICRO LAMINATED BEAM	VIF	VERIFY IN FIELD
EP	ELECTRICAL PANEL	MO	MASONRY OPENING	VP	VISION PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER				
EQ	EQUAL	N	NORTH	W/	WITH
EQUIP	EQUIPMENT	NA	NOT APPLICABLE	W/O	WITHOUT
EXIST	EXISTING	NIC	NOT IN CONTRACT	WC	WATER CLOSET
EXP	EXPANSION	NOM	NOMINAL	WD	WOOD
EXT	EXTERIOR	NRC	NOISE REDUCTION COEFFICIENT	WL	WIND LOAD
EXTR	EXTRUDED / EXTRUSION	NTS	NOT TO SCALE	WP	WATER PROOFING
				WR	WEATHER PROOFING
FCU	FAN COIL UNIT	OC	ON CENTER	WRB	WEATHER RESISTANT BARRIER
FD	FLOOR DRAIN	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED	WWF	WELDED WIRE FABRIC
FDN	FOUNDATION	OH	OVERHEAD	WWM	WELDED WIRE MESH
FE	FIRE EXTINGUISHER	OPG	OPENING		

SYMBOL LEGEND



SECTION TAG



ELEVATION TAG



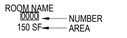
NORTH ARROW



FINISH FACE OF SURFACES ALIGN



STRUCTURAL GRID TAG



ROOM TAG

DOOR TAG



WALL TAG



WINDOW / LOUVER TAG



REFER TO DRAWING NOTE

EXISTING PARTITION TO BE REMOVED

EXISTING PARTITION

NEW METAL STUD W/ GWB PARTITION

P:\Liro Hill Group\25044 Tonawanda Police Locker Room\Drawings\Arch\SAMPLE DRAWING - Standard\SAMPLE DRAWING.dwg 9/25/2026 4:25 PM

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NO.	DATE	DESCRIPTION
		REVISIONS

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PROJ. ENG.:	CLIENT: Town of Tonawanda	JOB TITLE AND LOCATION: ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE 1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223	LIRO JOB NO.: 25-147-0428
DESIGNED BY:			SHEET 1 OF 12
CHECKED BY:		DRAWING TITLE: GENERAL NOTES	DRAWING NO.: G001
DRAWN BY:	DATE: SEPTEMBER 25, 2026	SCALE: PER DRAWING	

GENERAL DEMOLITION NOTES:

A. ALL DIMENSIONS AND EXISTING CONDITIONS TO BE VERIFIED IN FIELD
B. REFER TO HAZARDOUS MATERIALS DRAWINGS FOR REMOVAL OF HAZARDOUS MATERIALS & TEMPORARY PARTITIONS. COORDINATE WITH ALL OTHER TRADES
C. CONTRACTOR TO PROTECT ALL PORTIONS OF EXISTING BUILDING TO REMAIN. PATCH/ REPAIR/ REPLACE ANY DAMAGED AREAS
D. CUTTING & PATCHING ARE THE RESPONSIBILITY OF EACH ASSOCIATED CONTRACTOR OR SUBCONTRACTOR
E. PROTECT ALL WALL MOUNTED EXIST. EQUIPMENT ADJACENT TO CEILING PLANE DURING CONSTRUCTION
F. ROOMS 'DATA - A' & 'DATA - B' TO RETAIN ACCESS & FUNCTIONALITY THROUGH OUT ENTIRE DEMOLITION & CONSTRUCTION PROCESS
G. NOT ALL CEILING MOUNTED EQUIPMENT/ DEVICES ARE SHOWN. COORDINATE WORK WITH HAZARDOUS MATERIALS SCOPES, AND ALL OTHER TRADES.

DEMOLITION DRAWINGS NOTES:

D#

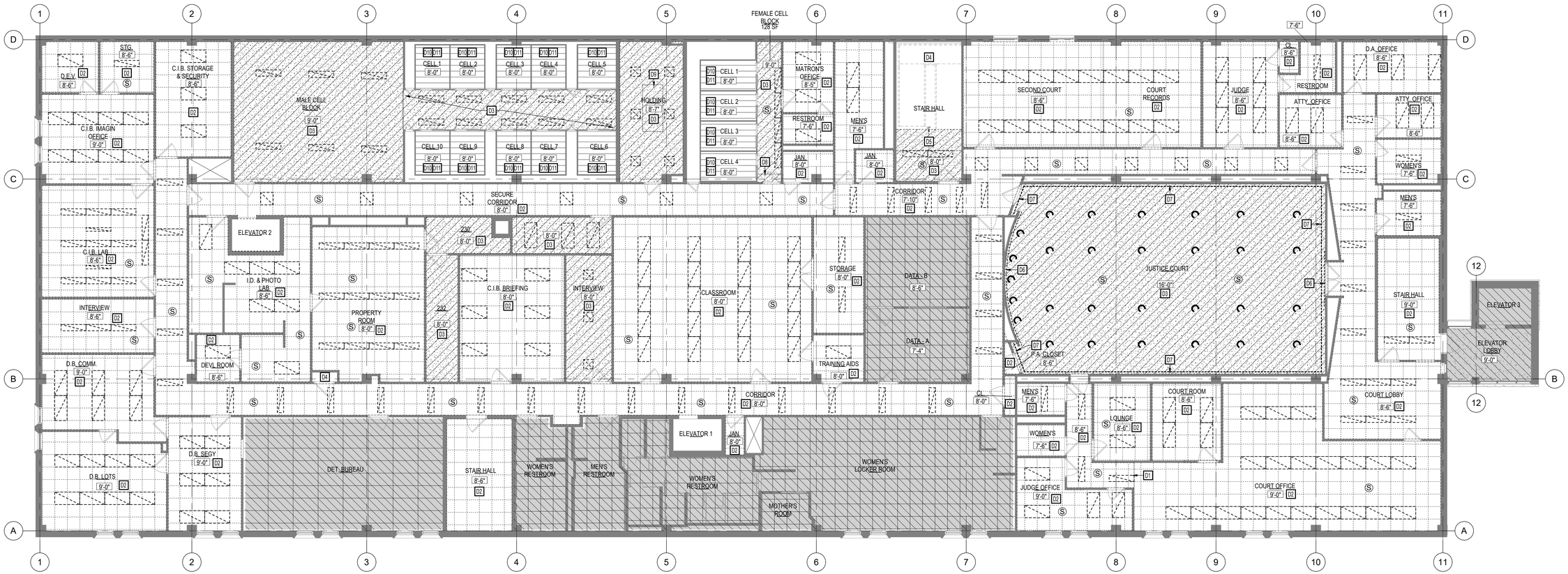
D1. REMOVE SOFFIT IN ITS ENTIRETY
D2. REMOVE EXISTING SUSPENDED ACOUSTICAL TILE CEILING ASSEMBLY, GRID, & ACCESSORIES IN ITS ENTIRETY
D3. REMOVE EXIST. PLASTER CEILING ASSEMBLY IN ITS ENTIRETY
D4. AREA OPEN TO STRUCTURE ABOVE
D5. EXIST. SLOPED CEILING TO BE REMOVED IN ITS ENTIRETY. REPLACE IN KIND
D6. EXIST. DECORATIVE WALL MOUNTED TRIM & FINISHES TO BE PROTECTED
D7. EXIST. CROWN MOLDING TO BE REMOVED IN ITS ENTIRETY
D8. REMOVE SOFFIT/ PORTION OF STEPPED CEILING IN ITS ENTIRETY. COORD. NEW CEILING W/ EXIST. MEP EQUIPMENT
D9. EXIST. METAL ACCESS PANEL & FRAME TO BE REMOVED IN ITS ENTIRETY.
D10. SECURITY CEILING AT HOLDING CELLS TO REMAIN.
D11. REMOVE EXIST. PLASTER CEILING ASSEMBLY THAT IS ABOVE HOLDING CELL SECURITY CEILING.

RCP LEGEND & BASIS OF DESIGN NOTES:

- **CLG-01** - 2X2 ACT CEILING ASSEMBLY W/ GRID
- **CLG-02** - GWB CEILING ASSEMBLY
- EXIST. 2X2 CEILING TO BE REMOVED IN ITS ENTIRETY
- EXIST. PLASTER CEILING ASSEMBLY TO BE REMOVED IN ITS ENTIRETY
- HATCH TO INDICATE EXISTING TO REMAIN. NO WORK THIS AREA

CEILING EQUIPMENT & SYMBOLS LEGEND

- PENDANT LIGHT
- SMOKE DETECTOR
- LIGHT FIXTURE
- LIGHT FIXTURE
- LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE



1 SECOND FLOOR DEMOLITION REFLECTED CEILING PLAN

1/8" = 1'-0"

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JOB TITLE AND LOCATION:
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1835 SHERIDAN DRIVE
1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223

LIRO JOB NO.: 25-147-0428
SHEET 2 OF 12

DRAWING TITLE:
SECOND FLOOR DEMOLITION RCP

DRAWING NO.: **A111**

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G. NOT ALL CEILING MOUNTED EQUIPMENT/ DEVICES ARE SHOWN. COORDINATE WORK WITH HAZARDOUS MATERIALS SCOPES, AND ALL OTHER TRADES.

DRAWINGS NOTES:

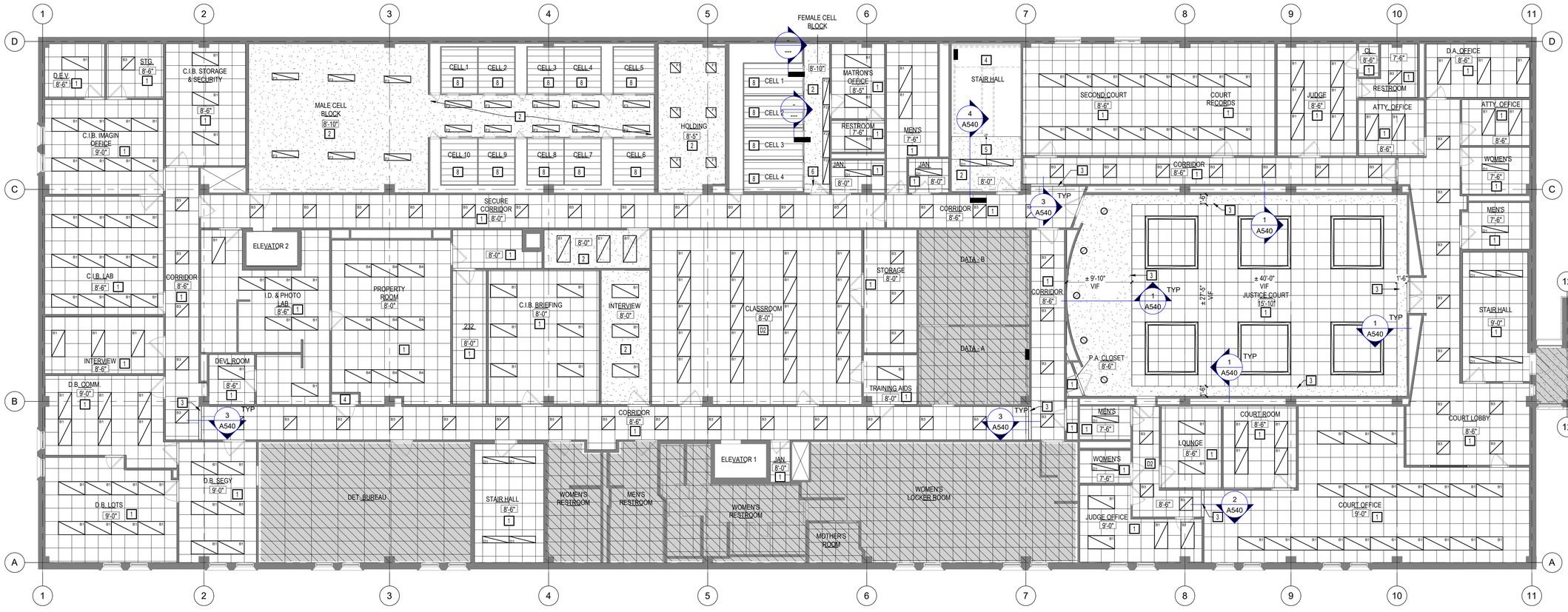
1. PROVIDE 2X2 ACT CEILING ASSEMBLY, GRID, & ACCESSORIES, REFER TO PLAN FOR CEILING HEIGHTS
2. PROVIDE GWB CEILING ASSEMBLY & ACCESSORIES, REFER TO PLAN FOR CEILING HEIGHTS. PAINT: P-2
3. PROVIDE SOFFIT, REFER TO DETAILS
4. AREA OPEN TO STRUCTURE ABOVE.
5. PROVIDE SLOPED GWB CEILING ASSEMBLY
6. COORDINATE MEP EQUIPMENT/ STRUCTURAL ASSEMBLIES IN THIS LOCATION. ADJUST FINISHED ELEVATION WHERE ABLE TO ALLOW INSTALLATION OF NEW CEILING TO BE (1) CONTINUOUS, FLUSH ASSEMBLY. PROVIDE STEPPED GWB CEILING/ SOFFIT ASSEMBLY AS REQUIRED BY EXIST. MEP/ STRUCTURAL ASSEMBLIES
7. COORDINATE INSTALLATION OF NEW GWB CEILING ASSEMBLY WITH EXISTING WALL FINISH. CAREFULLY REMOVE TOP ROW OF WALL PANEL AS REQUIRED & REINSTALL FOLLOWING CEILING INSTALLATION
8. PROTECT EXIST. SECURE CEILINGS. ENSURE ASSEMBLIES REMAIN TAMPER PROOF & LIGATURE PROOF. REPAIR AS REQUIRED

RCP LEGEND & BASIS OF DESIGN NOTES:

- **CLG-01** - 2X2 ACT CEILING ASSEMBLY W/ GRID
- **CLG-02** - GWB CEILING ASSEMBLY
- EXIST. 2X2 CEILING TO BE REMOVED IN ITS ENTIRETY
- EXIST. PLASTER CEILING ASSEMBLY TO BE REMOVED IN ITS ENTIRETY
- HATCH TO INDICATE EXISTING TO REMAIN. NO WORK THIS AREA

CEILING EQUIPMENT & SYMBOLS LEGEND

- PENDANT LIGHT
- SMOKE DETECTOR
- LIGHT FIXTURE
- LIGHT FIXTURE
- LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE



1 SECOND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

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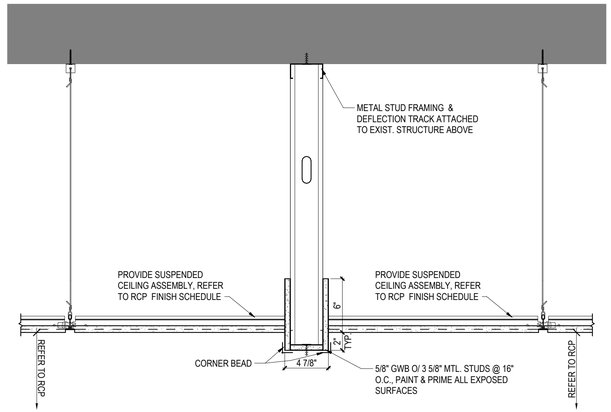
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REVISIONS

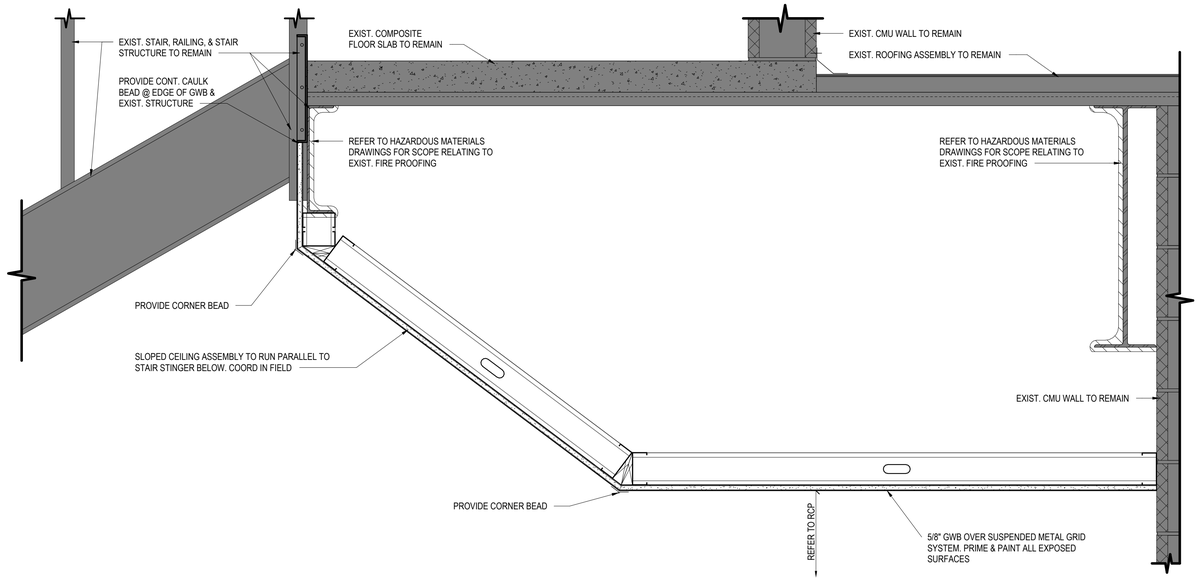
TRAUTMAN ASSOCIATES
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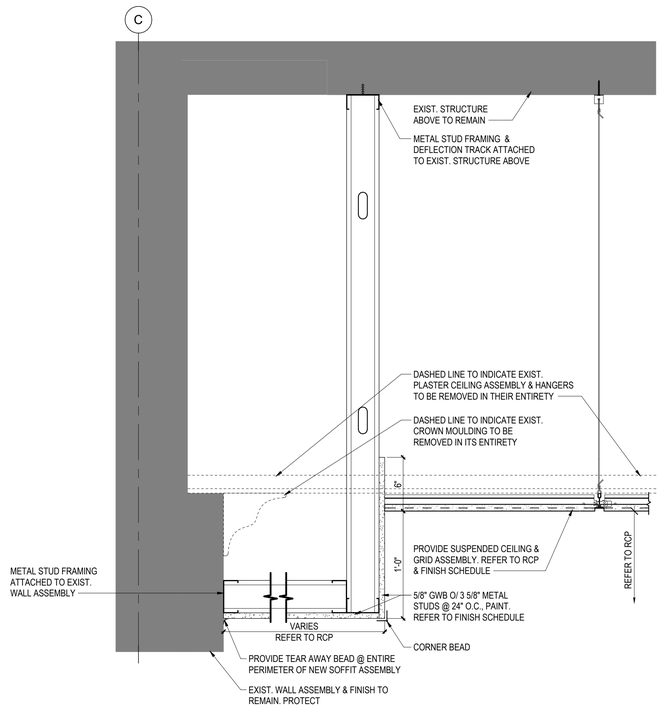
PROJ. ENG.:	
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	
CLIENT:	Town of Tonawanda
DATE:	SEPTEMBER 25, 2026
SCALE:	PER DRAWING
JOB TITLE AND LOCATION:	ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE 1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223
DRAWING TITLE:	**SECOND FLOOR RCP**
LIRO JOB NO.:	25-147-0428
SHEET / OF	3 / 12
DRAWING NO.	**A112**



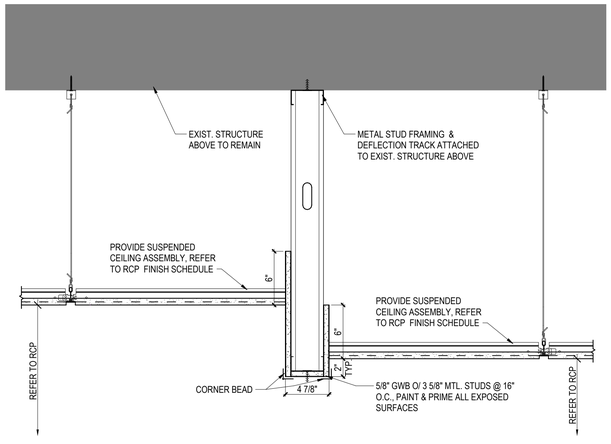
3 SOFFIT DETAIL
1 1/2" = 1'-0"



4 CEILING DETAIL @ STAIR HALL
1 1/2" = 1'-0"



1 SOFFIT DETAIL
1 1/2" = 1'-0"



2 SOFFIT DETAIL
1 1/2" = 1'-0"

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NO.	DATE	DESCRIPTION

REVISIONS

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PROJ. ENG.:	
DESIGNED BY:	
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DRAWN BY:	
CLIENT:	Town of Tonawanda
DATE:	SEPTEMBER 25, 2026
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JOB TITLE AND LOCATION:	ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE 1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223
LIRO JOB NO.:	25-147-0428
SHEET / OF	4 / 12
DRAWING TITLE:	CEILING DETAILS
DRAWING NO.:	A540



PLASTER CEILING IN HOLDING AREA



ELEVATOR SHAFT BOTTOM OF ROOF

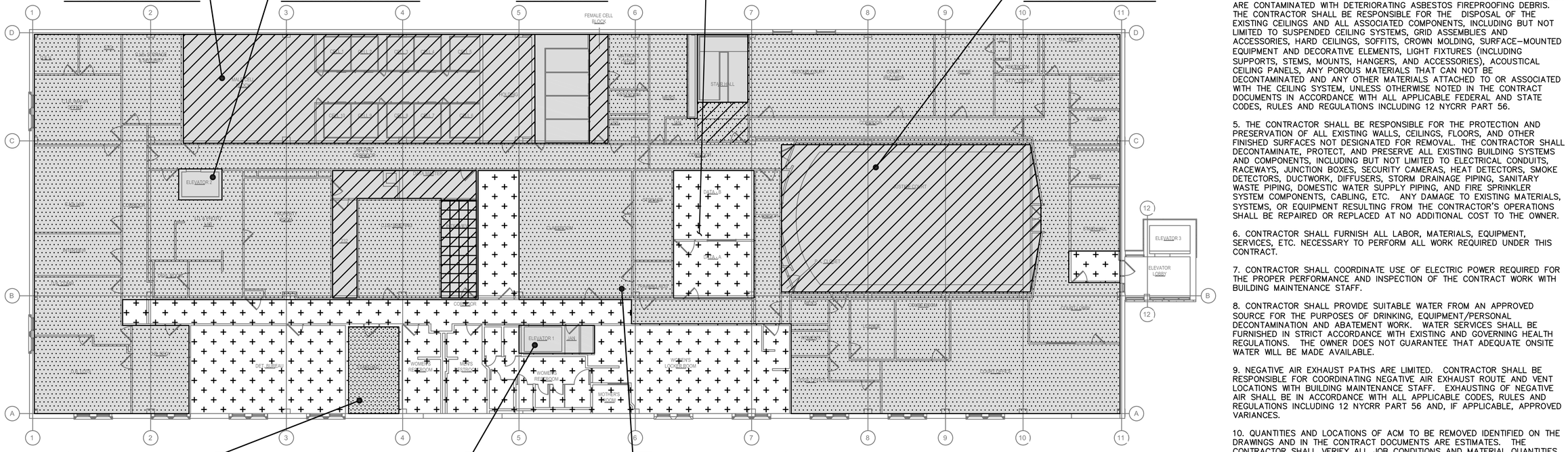


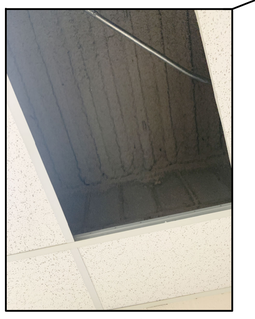
TYPICAL ABOVE CEILING

NOTE: THE DATA CENTER SHALL REMAIN FULLY ENERGIZED, OPERATIONAL, AND ACCESSIBLE TO NON–ASBESTOS–CERTIFIED PERSONNEL THROUGHOUT CONSTRUCTION AND ASBESTOS ABATEMENT ACTIVITIES. THE ASBESTOS ABATEMENT CONTRACTOR SHALL MAINTAIN SAFE, CONTINUOUS, AND UNRESTRICTED ACCESS TO THE DATA CENTER FOR THE DURATION OF THE ABATEMENT WORK THROUGH THE USE OF HARDWALL CONTAINMENT TUNNELS, WORK AREA PHASING, OR OTHER ENGINEER–APPROVED METHODS. ALL MEANS AND METHODS EMPLOYED SHALL ENSURE THAT DATA CENTER OPERATIONS ARE NOT DISRUPTED AND THAT NON–ASBESTOS–CERTIFIED PERSONNEL ARE NOT REQUIRED TO ENTER REGULATED ASBESTOS WORK AREAS TO ACCESS THE DATA CENTER.



PLASTER CEILING IN COURT ROOM





BOTTOM OF ROOF IN STAIRWELL



ELEVATOR SHAFT BOTTOM OF ROOF



BEAM & COLUMN @ LIMITS OF JOB

LEGEND

- ACM SPRAYED–ON FIREPROOFING TO BE REMOVED – ESTIMATED 14,720 SF
- ACM CONTAMINATED PLASTER CEILING TO BE REMOVED – ESTIMATED 3,830 SF
- ACM CONTAMINATED EXISTING 2'x2' SUSPENDED CEILING TILE AND GRID, TO BE REMOVED – ESTIMATED 9,950 SF
- ACM CEILING PLASTER TO BE REMOVED – ESTIMATED 150 SF
- NOT IN CONTRACT – PREVIOUSLY ABATED SPRAYED–ON FIREPROOFING AND CEILING REPLACEMENT

NOTES:

1. ALL ASBESTOS ABATEMENT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AND STATE CODES, RULES AND REGULATIONS INCLUDING 12 NYCRR PART 56 AND THE CONTRACT DOCUMENTS. WHERE CONFLICTS OCCUR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE CODES, RULES AND REGULATIONS, THE MORE STRINGENT SHALL APPLY.

2. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A WRITTEN STANDARD PROCEDURE FOR ASBESTOS ABATEMENT WORK TO ENSURE MAXIMUM PROTECTION AND SAFEGUARD FROM EXPOSURE TO ASBESTOS THE WORKERS, VISITORS, EMPLOYEES, GENERAL PUBLIC AND THE ENVIRONMENT. APPROVAL OF THE PROCEDURES BY THE ENVIRONMENTAL CONSULTANT AND THE ENGINEER SHALL BE OBTAINED PRIOR TO THE START OF WORK.

3. THE CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL VARIANCES FROM THE ENGINEER PRIOR TO REQUESTING SUCH VARIANCES FROM THE NYSDOL. THE ENGINEER RETAINS THE RIGHT TO REJECT USE OF ANY VARIANCE BY THE CONTRACTOR WHICH IN THE SOLE OPINION OF THE ENGINEER PUTS ADDITIONAL BURDEN, COST, OR RISK ON THE ENGINEER OR PROJECT MONITOR.

4. THE CEILING SYSTEMS AND COMPONENTS WITHIN THE SPACE BETWEEN THE SECOND–FLOOR SUSPENDED CEILING AND THE UNDERSIDE OF THE ROOF DECK ARE CONTAMINATED WITH DETERIORATING ASBESTOS FIREPROOFING DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF THE EXISTING CEILINGS AND ALL ASSOCIATED COMPONENTS, INCLUDING BUT NOT LIMITED TO SUSPENDED CEILING SYSTEMS, GRID ASSEMBLIES AND ACCESSORIES, HARD CEILINGS, SOFFITS, CROWN MOLDING, SURFACE–MOUNTED EQUIPMENT AND DECORATIVE ELEMENTS, LIGHT FIXTURES (INCLUDING SUPPORTS, STEMS, MOUNTS, HANGERS, AND ACCESSORIES), ACOUSTICAL CEILING PANELS, ANY POROUS MATERIALS THAT CAN NOT BE DECONTAMINATED AND ANY OTHER MATERIALS ATTACHED TO OR ASSOCIATED WITH THE CEILING SYSTEM, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AND STATE CODES, RULES AND REGULATIONS INCLUDING 12 NYCRR PART 56.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL EXISTING WALLS, CEILINGS, FLOORS, AND OTHER FINISHED SURFACES NOT DESIGNATED FOR REMOVAL. THE CONTRACTOR SHALL DECONTAMINATE, PROTECT, AND PRESERVE ALL EXISTING BUILDING SYSTEMS AND COMPONENTS, INCLUDING BUT NOT LIMITED TO ELECTRICAL CONDUITS, RACEWAYS, JUNCTION BOXES, SECURITY CAMERAS, HEAT DETECTORS, SMOKE DETECTORS, DUCTWORK, DIFFUSERS, STORM DRAINAGE PIPING, SANITARY WASTE PIPING, DOMESTIC WATER SUPPLY PIPING, AND FIRE SPRINKLER SYSTEM COMPONENTS, CABLING, ETC. ANY DAMAGE TO EXISTING MATERIALS, SYSTEMS, OR EQUIPMENT RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

6. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NECESSARY TO PERFORM ALL WORK REQUIRED UNDER THIS CONTRACT.

7. CONTRACTOR SHALL COORDINATE USE OF ELECTRIC POWER REQUIRED FOR THE PROPER PERFORMANCE AND INSPECTION OF THE CONTRACT WORK WITH BUILDING MAINTENANCE STAFF.

8. CONTRACTOR SHALL PROVIDE SUITABLE WATER FROM AN APPROVED SOURCE FOR THE PURPOSES OF DRINKING, EQUIPMENT/PERSONAL DECONTAMINATION AND ABATEMENT WORK. WATER SERVICES SHALL BE FURNISHED IN STRICT ACCORDANCE WITH EXISTING AND GOVERNING HEALTH REGULATIONS. THE OWNER DOES NOT GUARANTEE THAT ADEQUATE ONSITE WATER WILL BE MADE AVAILABLE.

9. NEGATIVE AIR EXHAUST PATHS ARE LIMITED. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING NEGATIVE AIR EXHAUST ROUTE AND VENT LOCATIONS WITH BUILDING MAINTENANCE STAFF. EXHAUSTING OF NEGATIVE AIR SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, RULES AND REGULATIONS INCLUDING 12 NYCRR PART 56 AND, IF APPLICABLE, APPROVED VARIANCES.

10. QUANTITIES AND LOCATIONS OF ACM TO BE REMOVED IDENTIFIED ON THE DRAWINGS AND IN THE CONTRACT DOCUMENTS ARE ESTIMATES. THE CONTRACTOR SHALL VERIFY ALL JOB CONDITIONS AND MATERIAL QUANTITIES PRIOR TO BIDDING. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR IF THE INFORMATION IN THESE DOCUMENTS DIFFERS FROM THE EXISTING CONDITIONS.

11. ASBESTOS CONTAINING MATERIALS (ACM) AND/OR PRESUMED ASBESTOS CONTAINING MATERIALS (PACM) INCLUDING BUT NOT NECESSARILY LIMITED TO FLOOR TILE, FLOOR TILE MASTIC, AND CARPET MASTIC ARE PRESENT IN CLOSE PROXIMITY TO THE PLANNED RENOVATION WORK. ALL CONTRACTORS SHALL USE EXTREME CAUTION TO AVOID DISTURBANCE OF ANY NEARBY ACM/PACM. IN THE EVENT THAT AN INCIDENTAL DISTURBANCE OF ACM/PACM OCCURS, THE ENGINEER AND OWNER'S REPRESENTATIVE SHALL BE IMMEDIATELY MADE AWARE OF THE DISTURBANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT AND RESTORATION OF THE DISTURBED MATERIAL AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL ACM FIREPROOFING, INCLUDING, BUT IS NOT LIMITED TO, ASBESTOS–CONTAINING SFP LOCATED ON THE CORRUGATED METAL ROOF DECK, STRUCTURAL STEEL ROOF SUPPORTS, HANGERS, AND ALL ASSOCIATED OVERSPRAY ON DECKING, WALLS, CONDUIT, HVAC DUCTING AND OTHER COMPONENTS AT THE CONTRACTOR'S LUMP SUM BID PRICE.

10 0 10
SCALE IN FEET

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NO.	DATE	DESCRIPTION
		REVISIONS

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

PROJ. ENG.:	M.J.W.
DESIGNED BY:	J.C.
CHECKED BY:	M.J.W.
DRAWN BY:	A.M.K.
CLIENT:	Town of Tonawanda
DATE:	SEPTEMBER 2026
SCALE:	AS SHOWN
JOB TITLE AND LOCATION:	ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE 1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223
LIRO JOB NO.:	25–147–0428
SHEET OF	5 12
DRAWING TITLE:	2ND FLOOR ACM ABATEMENT PLAN
FIGURE NO.	HM-101

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MECHANICAL GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE PURCHASED AND INSTALLED IN ACCORDANCE WITH ALL NATIONAL & NEW YORK STATE CODES AND REGULATIONS (AS WELL AS ALL APPLICABLE LOCAL CODES & REGULATIONS). THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL HVAC WORK IS PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH SEISMIC REQUIREMENTS.
2. DO NOT SCALE FROM THESE DRAWINGS.
3. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE ASHRAE, NFPA, AND SMACNA GUIDE RECOMMENDATIONS. ALL DUCTS TO HAVE PITTSBURGH TYPE LOCK FOR LONGITUDINAL SEAMS AND DRIVE SLIP / "S" SLIP FOR TRANSVERSE JOINTS. "DUCT-MATE" JOINT SYSTEM IS ACCEPTABLE IN LIEU OF PRIOR SEAM SYSTEMS. SIZES AS SHOWN INDICATE INSIDE CLEAR DIMENSIONS OF THE AIR PASSAGE. DUCTWORK SHALL BE FULLY INSULATED AS PER APPLICABLE CODES AND WRITTEN SPECIFICATIONS.
4. DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE CONSTRUCTION AS LONG AS EFFECTIVE CROSS-SECTIONAL AREA IS MAINTAINED. DUCT TRANSITIONS SHALL BE CONSTRUCTED WITH A SLOPE OF 1" TO 4". ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE REVIEWED BY ENGINEER DURING THE SHOP DRAWING PROCESS.
5. PROVIDE ELBOWS OR TEES WITH TURNING VANES FOR ALL CHANGES OF DUCT DIRECTION. PROVIDE SPLITTER DAMPERS WITH LOCKING QUADRANTS IN ALL TEES.
6. PROVIDE MANUAL BALANCING DAMPERS AS REQUIRED TO PROPERLY BALANCE EACH INDIVIDUAL AIR DISTRIBUTION SYSTEM. IF THE LOCATION OF THE BALANCING DAMPER IS NOT DEFINED ON THE DRAWINGS, THE FOLLOWING MINIMUMS STANDARDS SHALL GOVERN. ALL SUPPLY, RETURN, AND EXHAUST MAIN BRANCHES FROM TRUNKS, EACH SPLIT AND ALL SUB- BRANCHES FROM MAIN SHALL INCORPORATE BALANCING DAMPERS.
7. M.C. MUST CONTRACT AN INDEPENDENT NEBB CERTIFIED AIR BALANCING & TESTING COMPANY TO PERFORM THE AIR BALANCING WORK AND ASSOCIATED SYSTEM AIR BALANCING REPORT. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, PLANS AND WRITTEN SPECIFICATIONS. SUBMIT THE FINAL AIR BALANCE REPORT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT, AS DETERMINED BY THE G.C. AND OWNER/CLIENT. THE AIR BALANCE REPORT MUST INCLUDE ALL SUPPLY, RETURN, & EXHAUST AIR TERMINALS, FRESH AIR (OUTSIDE AIR) INTAKE AND VENTILATION EXHAUST CFM RATES FOR ALL UNITS. ALSO INCLUDE ACTUAL SUPPLY & RETURN AIR VELOCITY & STATIC PRESSURE READINGS ALONG WITH ALL MOTOR AMPERAGES FOR ALL UNITS.

MECHANICAL DEMOLITON NOTES

1. THE CONTRACTOR SHALL REFER TO HM SERIES DRAWINGS FOR ACM COORDINATION FOR ALL DEMOLITION.
2. THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH COMPLETION OF WORK IN THIS CONTRACT OR OTHER CONTRACT WORK.
3. EXECUTE THE DEMOLITION IN CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC, EGRESS OR THE FUNCTIONING OF THE EXISTING BUILDING.
4. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NOT BE PERMITTED.
5. PRIOR TO DEMOLITION, CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED, SHOULD THE OWNER WANT TO KEEP ANY MATERIALS THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND BE DISPOSED OF IN A LEGAL MANNER.
6. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE.
7. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE AND BE CAPPED, PLUGGED OR SEALED AND THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
8. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
9. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
10. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN, TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
11. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS.
12. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
13. BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES, WHERE REQUIRED, AND IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS.
14. USE TEMPORARY ENCLOSURES, OR OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
15. FIELD VERIFY DEMOLITION REQUIREMENTS AND EXISTING CONDITIONS. DEMOLITION NOTES ARE INDICATED IN NOTE FORM.
16. CONTRACTOR SHALL ESTABLISH A PATH OF TRAVEL AND TIME SCHEDULE FOR THE REMOVAL OF ALL DEBRIS AND WASTE, AND HAVE THIS APPROVED BY OWNER. CONTRACTOR IS TO ENSURE THAT ALL CORRIDORS AND PUBLIC AREAS BE KEPT FREE OF OBSTRUCTIONS, DEBRIS, AND ARE TO BE BROOM SWEPT CLEAN AT ALL TIMES.
17. CONTRACTOR SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.

SCOPE OF WORK

1. THE REMOVAL OF EXISTING AIR TERMINALS & DUCTWORK IN AREAS OF DEMOLITION.
2. THE INSTALLATION OF NEW AIR TERMINALS & DUCTWORK IN AREAS OF CONSTRUCTION.

NOTE: THIS SCOPE OF WORK DESCRIPTION IS PROVIDED TO GIVE AN OVERALL "MACRO" DESCRIPTION OF THIS PROJECT. M.C. IS RESPONSIBLE TO REVIEW ALL ENGINEERING AND ARCHITECTURAL DRAWINGS AND VISIT THE SITE IF NEEDED, PRIOR TO SUBMISSION OF BID. REFER TO SPECIFICATIONS FOR FURTHER SCOPE OF WORK. IF CONFLICTS ARISE, CONTACT DESIGN ENGINEER BEFORE FABRICATION.

BID NOTES

2. M.C. IS RESPONSIBLE TO PROVIDE A FULLY FUNCTIONAL, OPERATING CONTROLS SYSTEM.
3. THE CONTRACTOR MUST SUBMIT ANY EQUIPMENT ALTERNATES 2 WEEKS PRIOR TO BIDS DUE FOR REVIEW AND COMMENTS. ALTERNATES MUST BE ACCEPTED BY LIRO ENGINEERS, INC., THE ARCHITECT, AND THE OWNER PRIOR TO INCLUSION IN BID. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE EQUIPMENT ALTERNATES WITH OTHER TRADES AND MAKE ADJUSTMENTS TO THE MECHANICAL SYSTEMS, AS REQUIRED, TO ACCOMMODATE THESE NEW ALTERNATES.
4. CHANGES WHICH DEEM TO EFFECT THE DESIGN SHALL BE SUBMITTED WITH A NYS P.E. APPROVED DRAWING AT THE CONTRACTOR'S EXPENSE AND SHALL BE REVIEWED BY ENGINEER.

SHOP DRAWING NOTES

THE CONTRACTOR IS RESPONSIBLE TO SUBMIT ALL OF THE FOLLOWING ITEMS FOR REVIEW/APPROVAL BY NO MORE THAN 3 WEEKS AFTER THE CONTRACTOR'S CONTRACT/BID HAS BEEN AWARDED. ALL SUBMITTALS MUST BE SENT TOGETHER AS A **SINGLE PACKAGE** WITH MANUFACTURER'S SPECIFIC MODELS AND SPECIFICATIONS OUTLINED TO MATCH THE SCHEDULED REQUIREMENTS. EACH SUBMITTAL MUST BE LABELED WITH THE UNIT DESIGNATION USED WITHIN THIS DRAWING SET. IF THE SUBMITTAL PACKAGE IS FOUND TO BE INCOMPLETE UPON RECEIPT, THE PACKAGE WILL BE HELD AND WILL NOT BE REVIEWED UNTIL THE REMAINDER OF THE PACKAGE IS RECEIVED. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL NOT PURCHASE OR INSTALL ANY EQUIPMENT UNTIL WRITTEN ACCEPTANCE IS OBTAINED FROM THE ENGINEER.

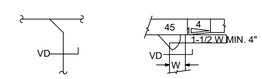
1. CONTRACTOR IS RESPONSIBLE TO DEVELOP & SUBMIT TO THE ENGINEER FOR REVIEW & APPROVAL THE FOLLOWING SHOP DWGS:
   - A. SHEETMETAL DUCTWORK SHOP DWGS.
   - B. SUPPLY, RETURN, & EXHAUST AIR DEVICES.
   - C. VOLUME DAMPERS.
2. CONTRACTOR MUST PROVIDE, AT MINIMUM, THE FOLLOWING CLOSE OUT DOCUMENTATION FOR THE EQUIPMENT/PROJECT:
   - A. FINAL AIR BALANCE REPORT.
   - B. AS-BUILTS FOR ALL INSTALLED SYSTEMS.

NOTE: REFER TO SPECIFICATIONS FOR FURTHER SHOW DRAWING REQUIREMENTS. IF CONFLICTS ARISE, CONTACT DESIGN ENGINEER BEFORE FABRICATION.

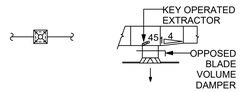
HVAC SYMBOL LIST

IDENTIFIER	DESCRIPTION
24X12 / 24X12	DOUBLE-LINE AND SINGLE-LINE RECTANGULAR DUCT, FIRST NUMBER INDICATES SIDE IN VIEW IN INCHES, SECOND NUMBER INDICATES SIDE IN DEPTH IN INCHES
24Ø / 12Ø	DOUBLE-LINE AND SINGLE-LINE ROUND DUCT, NUMBER INDICATES DIAMETER IN INCHES
VD	VOLUME DAMPER
BD	BACKDRAFT DAMPER
FD/AD	FIRE DAMPER AND ACCESS DOOR
SD/AD	SMOKE DAMPER AND ACCESS DOOR
	4 WAY CEILING DIFFUSER
	EXHAUST GRILLE
	RETURN GRILLE/REGISTER
	ROUND SUPPLY AIR DUCT (UP AND DOWN)
	REGULAR RETURN AIR DUCT (UP AND DOWN)

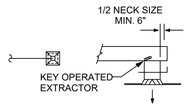
SINGLE LINE / DOUBLE LINE



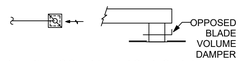
SUPPLY, RETURN OR EXHAUST DUCT BRANCH



SUPPLY DIFFUSER CONNECTION



SUPPLY DIFFUSER AT END OF DUCT RUN



RETURN REGISTER AT END OF DUCT RUN

NOTES:
1. DIFFUSERS, REGISTERS, GRILLES AND DUCT SIZES ARE SHOWN ON FLOOR PLANS OR IN SCHEDULES

2. DUCT SIZES ARE GIVEN AS INTERNAL DIMENSIONS. INTERNALLY LINED DUCTS SHALL BE INCREASED IN SIZE TO MAINTAIN THE SAME INTERNAL SIZE.

HVAC ABBREVIATIONS

IDENTIFIER	DESCRIPTION
CFM	CUBIC FEET PER MINUTE
EG	EXHAUST GRILLE
QTY	QUANTITY
RD	RETURN DIFFUSER
RG	RETURN GRILLE
SD	SUPPLY DIFFUSER
SG	SUPPLY GRILLE
TYP.	TYPICAL
VIF.	VERIFY IN FIELD

DIFFUSER SCHEDULE

EQUIP. NO.	SERVICE	MANUFACTURER	MODEL	QTY.	CFM	NECK SIZE (IN.)	FACE SIZE (IN.)	NOTES
SD-1	SUPPLY	PRICE	SCD	6	400-440	10	24X24	ALL
RG-1	RETURN	PRICE	PDR	4	0-670	22X22	24X24	ALL

NOTES:
1. COORDINATE AND CONFIRM CEILING MOUNT WITH ARCHITECTURAL RCP BEFORE ORDERING.
2. INTEGRAL VOLUME DAMPERS NOT ACCEPTABLE. VOLUME DAMPERS PROVIDED BY MECHANICAL CONTRACTOR ON ALL RUN-OUTS. EXCEPTIONS REQUIRE APPROVAL WHEN REQUIRED.

WARNING

IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
		BID DOCUMENT

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690 Delaware Avenue
Buffalo, New York

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CHECKED BY:
DRAWN BY: SH

CLIENT: Town of Tonawanda

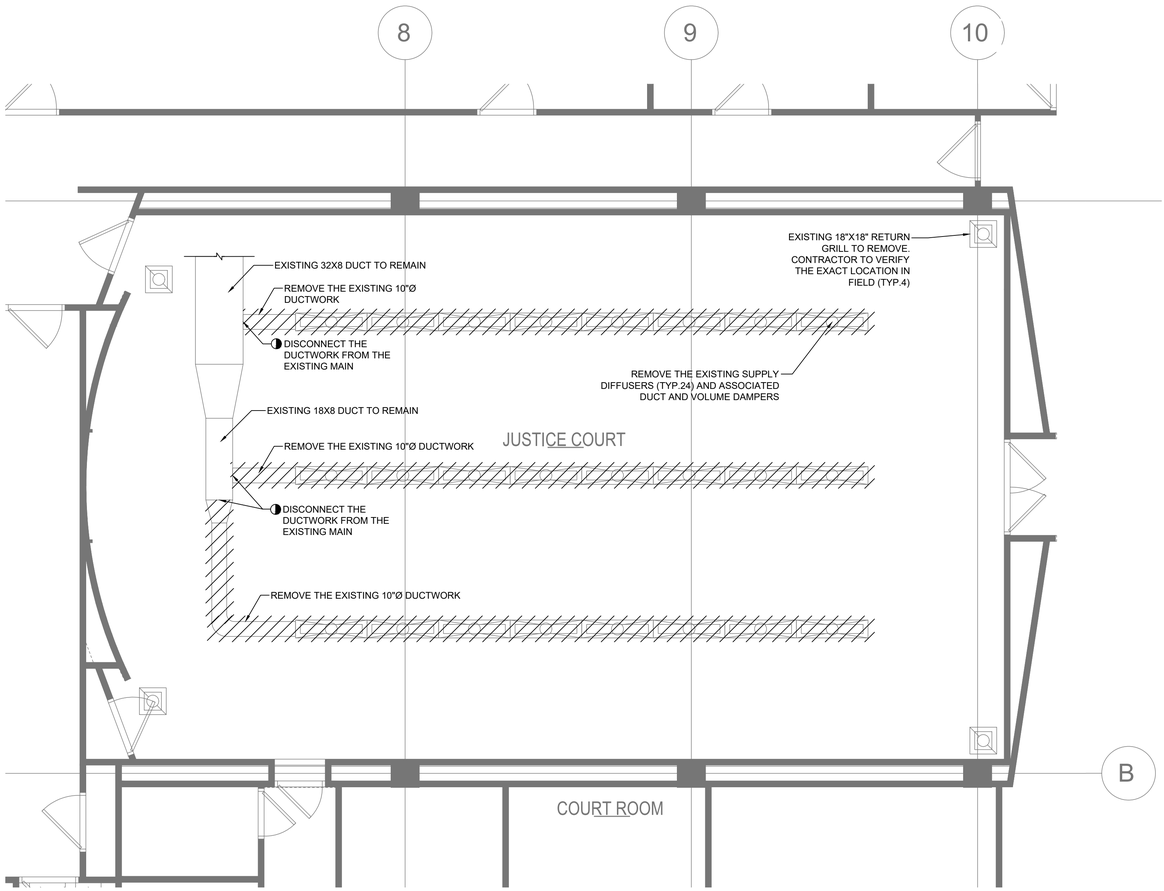
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JOB TITLE AND LOCATION:
ABATEMENT AND RENOVATIONS TO
1835 SHERIDAN DRIVE
1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223

DRAWING TITLE:
MECHANICAL NOTES, LEGENDS, ABBREVIATIONS & SCHEDULE

LIRO JOB NO.: 25-147-0428
SHEET 6 OF 12
DRAWING NO.: **M-001**

M:\MEP Projects\2025\25-147-0428 Town of Tonawanda Police Department Renovations\1 Drawings\Sheets\3_Mechanical\M-001 LEGENDS, NOTES & SCHEDULE.dwg 9/25/2026 10:12 AM



N

SECOND FLOOR PLAN - DEMOLITION

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

GENERAL NOTES:

1. COORDINATE DISPOSAL OF ALL ITEMS NOT REQUESTED AS SALVAGE BY THE OWNER.
2. DRAWINGS DO NOT IDENTIFY ALL DUCTWORK OR ACCURATE EQUIPMENT LOCATION. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE PRIOR TO BIDDING AND INCLUDE LABOR AND MATERIAL NECESSARY FOR REQUIRED DEMOLITION IN THEIR BID.
3. CONTRACTOR SHALL PATCH ALL UNUSED OPENINGS. PATCHWORK SHALL MATCH MATERIALS, FINISH, AND TEXTURE OF ADJACENT SURFACES.
4. CONTRACTOR SHALL PROTECT ALL WALLS, CEILING, FLOORS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
5. DUE TO PRESENCE OF ACM OVER THE CEILING, COORDINATE DEMOLITION WORK WITH HM DRAWING SET.

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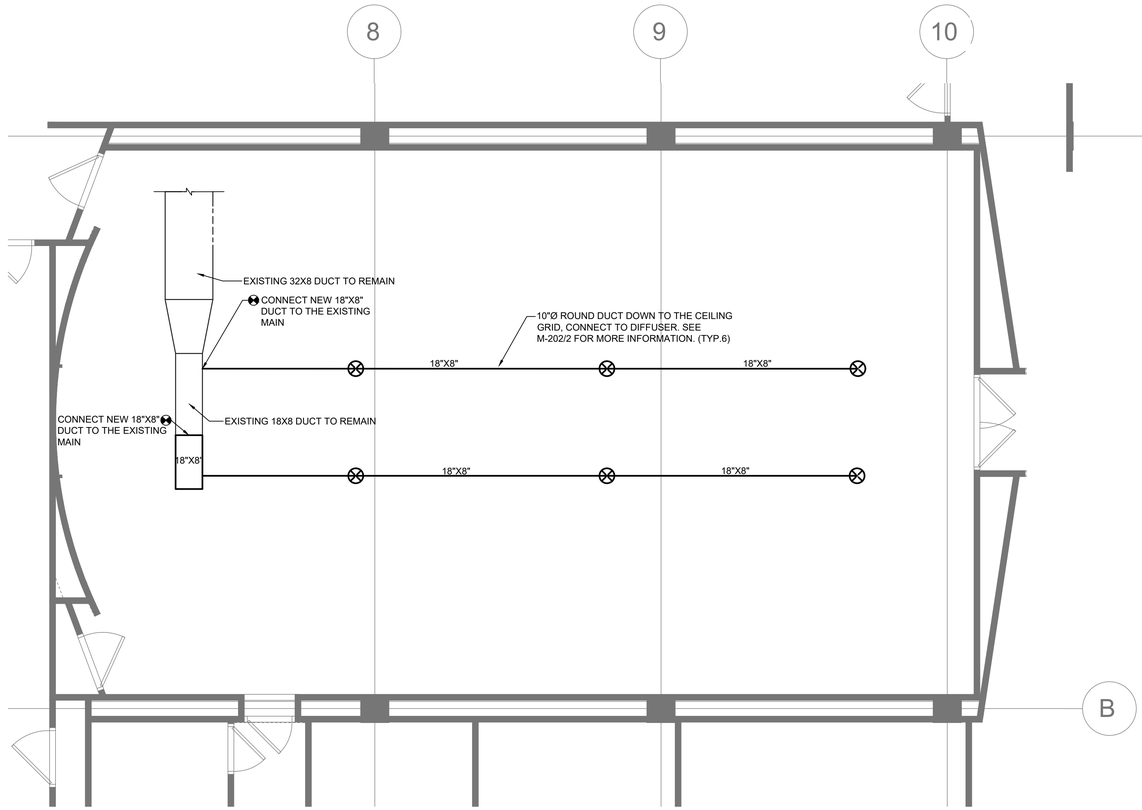
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DATE:	SEPTEMBER 25TH, 2026
SCALE:	1/4" = 1'-0"
JOB TITLE AND LOCATION:	ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE 1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223
DRAWING TITLE:	SECOND FLOOR PLAN DEMOLITION
LIRO JOB NO.:	25-147-0428
SHEET / OF	7 / 12
DRAWING NO.:	M-101

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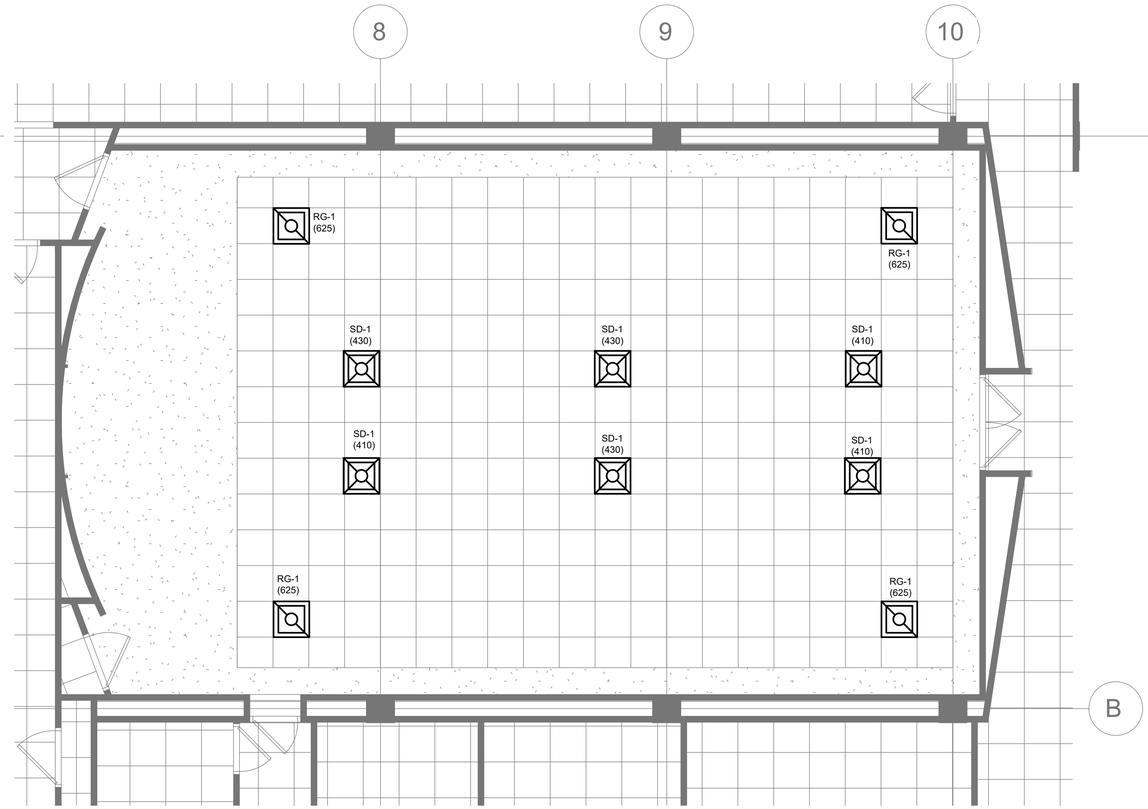


N

1 M-201

SECOND FLOOR COURTROOM MECHANICAL DUCTWORK PLAN

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



N

2 M-201

SECOND FLOOR COURTROOM MECHANICAL DIFFUSER PLAN

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

GENERAL NOTES:

1. THE SYSTEM IS PLENUM RETURN. CONTRACTOR TO PROVIDE RETURN OPENING AS IN THE ORIGINAL LOCATION. ENLARGE THE RETURN OPENING TO 24"X24". CONTRACTOR TO PROVIDE RETURN DIFFUSER AS SHOWN IN NEW CEILING GRID.
2. MODIFY SUPPLY DUCTWORK AS REQUIRED.

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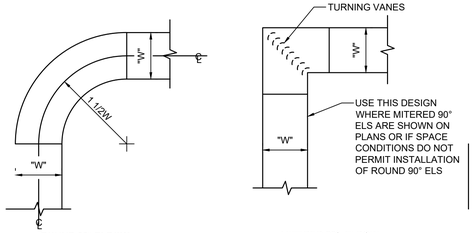
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SECOND FLOOR MECHANICAL CONSTRUCTION PLAN

LIRO JOB NO.: 25-147-0428

SHEET 8 OF 12

DRAWING NO.: M-201

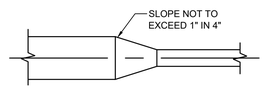
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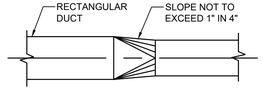
ROUND 90° **ELBOW**

MITERED 90° ELBOW

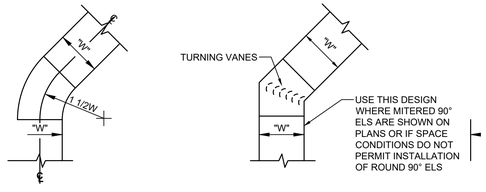
CONSTRUCTION OF 90° **ELBOWS**



TYPICAL RECTANGULAR TRANSITION



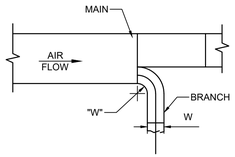
TYPICAL RECTANGULAR TO ROUND TRANSITION



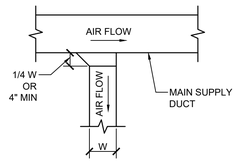
ROUND 45° **ELBOW**

MITERED 45° **ELBOW**

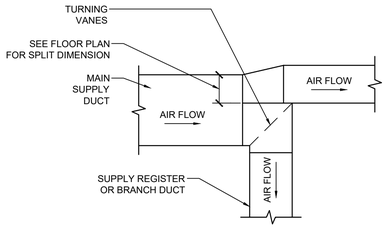
CONSTRUCTION OF 45° **ELBOWS**



ROUND BRANCH TAKE OFF



BRANCH DUCT TAKEOFF



SQUARE BRANCH TAKEOFF

CONSTRUCTION OF TAKEOFFS

ENSURE SPEC INDICATES THAT:
ALL DUCT TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.

ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKABLE MANNER.

THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.

VANES SHORTER THAN 36" SHALL BE SINGLE WALL, WITH A 2" RADIUS AND 1 1/2" SPACING. VANES LARGER THAN 36" AND SHORTER THAN 48" SHALL BE DOUBLE WALL, WITH A 2" OUTER RADIUS, 1" INNER RADIUS, AND 2 1/8" SPACING. VANES LONGER THAN 48" SHALL BE DOUBLE WALL, WITH A 4 1/2" OUTER RADIUS, 2 1/4" INNER RADIUS, AND 3 1/4" SPACING. NO TURNING VANES SHALL INCLUDE A TRAILING EDGE.

FOR SQUARE 90 DEG ELBOWS, IF INLET AND OUTLET DIMENSIONS ARE NOT THE SAME, PROVISIONS MUST BE MADE SO THAT VANE EDGES PROJECT TANGENTS PARALLEL TO DUCT SIDES. VANES AS USED WHEN INLET AND OUTLET DIMENSIONS ARE IDENTICAL ARE NOT ACCEPTABLE ON SIZE CHANGE ELBOWS WITHOUT MODIFICATION.

1 / M-801 **DUCT FITTING CONSTRUCTION DETAILS**
NOT TO SCALE

M:\MEP Projects\2025\25-147-0428 Town of Tonawanda Police Department Renovations\1 Drawings\Sheets\3_Mechanical\M-801 MECHANICAL DETAILS.dwg 9/24/2026 11:32 AM

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Buffalo, New York

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CHECKED BY:
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1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223

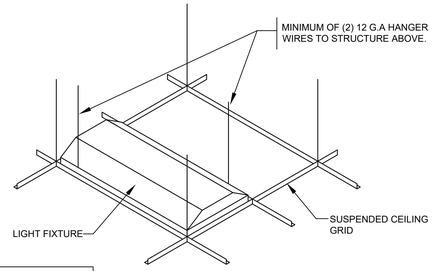
DRAWING TITLE: **MECHANICAL DETIALS**

LIRO JOB NO.: 25-147-0428
SHEET 9 OF 12
DRAWING NO.: **M-801**

\\lro.com\files\Server01\DVeep2\Data\MEP Projects\2025\25-147-0428 Town of Tonawanda Police Department Renovations\1 Drawings\Sheets\4_Electrical\E-001 LEGENDS, NOTES.dwg 9/28/2026 3:56 PM

ABBREVIATIONS

A	AMP-AMPERE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AWG	AMERICAN WIRE GAUGE	LP	LIGHTING PANEL
BKR	BREAKER	LTG	LIGHTING
C	CONDUIT/CONDUCTOR	MANUF	MANUFACTURER
CB	CIRCUIT BREAKER	M.C.	MECHANICAL CONTRACTOR
CKT	CIRCUIT	MCB	MAIN CIRCUIT BREAKER
CU	COPPER	MLO	MAIN LUGS ONLY
DWG	DRAWING	N	NEUTRAL
E.C.	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE
ELEC	ELECTRICAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
EF	EXHAUST FAN	NIC	NOT IN CONTRACT
FACP	FIRE ALARM CONTROL PANEL	PNL	PANEL
G	GROUND	RTU	ROOF TOP UNIT
GFI	GROUND FAULT INTERRUPT	TYP	TYPICAL
HP	HORSEPOWER	U.O.N.	UNLESS OTHERWISE NOTED
G.C.	GENERAL CONTRACTOR	UH	UNIT HEATER
KV	KILOVOLT	WP	WEATHERPROOF (NEMA 3R)
VAV	VARIABLE AIR VOLUME	XFMR	TRANSFORMER
KVA	KILOVOLT AMPERE		



NOTE:
TYPICAL FOR 1'X4', 2'X2', AND 2'X4' LED LUMINARIES.

1 / E-001

LIGHT SUPPORT DETAIL

SCALE: NOT TO SCALE

FIRE ALARM SYMBOLS

THIS SYMBOL LEGEND IS SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL ON THIS LEGEND DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS USED.

FACP	FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM REMOTE ANNUNCIATOR PANEL
F	MANUAL FIRE ALARM PULL STATION
H	HEAT DETECTOR
S	SMOKE DETECTOR
S A	SMOKE DETECTOR ABOVE CEILING
FA	FIRE ALARM WALL MOUNTED HORN STROBE
FA	CEILING MOUNTED HORN STROBE
ST	FIRE ALARM STROBE
S R	DUCT SMOKE DETECTOR - RETURN
S S	DUCT SMOKE DETECTOR - SUPPLY
R	COMBINATION RATE OF RISE AND 135 DEGREES HEAT DETECTOR CONNECTED TO FA SYSTEM
	FLOW SWITCH CONNECTED TO FIRE ALARM SYSTEM
GV	GATE VALVE TAMPER SWITCH
FSD	FIRE SMOKE DAMPER
FSR	FAN SHUT DOWN RELAY
R	RELAY
RTS	REMOTE TEST SWITCH
M	MONITOR MODULE
ISO	ISOLATION MODULE
AM	INDIVIDUAL ADDRESSABLE MODULE
	END OF THE LINE RESISTOR
B	ALARM BELL

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), 2025 N.Y.S. BUILDING CODES AND ALL LOCAL AND MUNICIPAL CODES HAVING JURISDICTION.
2. VISIT SITE, ACQUAINT HIMSELF WITH EXISTING CONDITIONS AND INCLUDE ALL NECESSARY COSTS TO COMPLETE THE INSTALLATION.
3. FURNISH AND PAY FOR ALL PERMITS AS REQUIRED AND OBTAIN FINAL CERTIFICATE OF INSPECTION.
4. WORK MUST BE COORDINATED WITH ALL OTHER TRADES TO ELIMINATE CONFLICTS AND INTERFERENCES.
5. ELECTRICAL CONTRACTOR RESPONSIBLE FOR ALL FIRESTOPPING ASSOCIATED WITH WORK PERFORMED BY ELECTRICAL CONTRACTOR. ALL PENETRATIONS OF THE BALLISTIC ENVELOPE TO BE FIRESTOPPED.
6. CONTROL WIRING FOR HVAC UNITS (OTHER THAN LOW VOLTAGE POWER SUPPLY WIRING) SHALL BE DONE BY HVAC CONTRACTOR.
7. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK1.
8. CONDUIT AND WIRE ON POWER AND LIGHTING PLANS IS NOT SHOWN EXCEPT FOR HOMERUNS. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, BOXES, PULL BOXES, WIRING, SWITCHES AND ACCESSORIES TO INTERCONNECT THE ELECTRICAL ITEM FOR CIRCUITING AND HOMERUNS INDICATED SYMBOLICALLY ON THE DRAWINGS. SEE LEGEND-HOMERUNS DESIGNATION FOR SYMBOLOGY APPLICABLE TO ALL SYMBOLS SHOWN.
9. TO PROVIDE ALL WALL BOXES FOR POWER & VOICE/DATA. E.C. MUST PROVIDE POWER WHIP, VOICE/DATA RACEWAYS AND FINAL POWER CONNECTIONS TO FURNITURE SYSTEMS. FINAL COORDINATION WITH FURNITURE VENDOR IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. PROVIDE ALL TEMPORARY INTERIOR LIGHTING FOR ALL TRADES DURING DEMOLITION (IF APPLICABLE) & CONSTRUCTION.

TYPICAL DEVICE MOUNTING HEIGHT

RECEPTACLES (OFFICE AREA)	18" AFF
RECEPTACLES (U.O.N.)	36" AFF
LIGHT SWITCHES	48" AFF
DISCONNECT SWITCHES	NEC 240.24
EXIT LIGHTS (WALL MTD)	1" ABOVE DOOR
EMERGENCY LIGHTS (WALL MTD)	7'-6" AFF
TV OUTLETS	18" AFF
AUDIO/VIDEO OUTLETS	18" AFF
MICROPHONE OUTLETS	18" AFF
PA ANNUNCIATOR PANEL	48" AFF
WELDING OUTLETS	36" AFF

NOTE: DIMENSIONS ARE TO DEVICE CENTERLINE UNLESS NOTED OTHERWISE

ELECTRICAL SYMBOL LEGEND

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- BRANCH CIRCUIT HOMERUN. SHORT LINES INDICATE PHASE CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTOR. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN.
- JUNCTION BOX
- PANELBOARD, SURFACE MOUNTED
- PANELBOARD, RECESSED
- EM — RECEPTACLE, DUPLEX; EM = EMERGENCY; WP = WEATHERPROF, NEMA 3R
- RECEPTACLE, QUADRUPLEX
- GFI = GROUND FAULT INTERRUPTER
- RECEPTACLE, SPECIAL PURPOSE
  - A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
  - B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
  - C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.
  - D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.
  - E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.
  - F = 208V, 30A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R.
  - G = 208V, 50A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R.
  - H = 208V, 60A, 3 PHASE, 3-POLE, 4W, NEMA 15-60R.
- ENCLOSED CIRCUIT BREAKER
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH (NIC)
- STARTER OR MOTOR CONTROLLER (NIC)
- VARIABLE FREQUENCY DRIVE (NIC)

DISCONNECT/CB TAG: SWITCH SIZE; 30 / 20; 3 = NUMBER OF POLES; FUSE/BREAKER SIZE BLANK DENOTES UNFUSED

- SWITCH
  - BLANK = SINGLE POLE
  - 2 = DOUBLE POLE
  - 3 = THREE-WAY
  - 4 = FOUR-WAY
  - D = DIMMER
  - F = FUSED
  - S = 4 BUTTON, LIGHT SCENE
  - LV = LOW VOLTAGE
  - L = LOCK
  - M = MOTOR
  - OS = OCCUPANCY SENSOR
  - P = WITH PILOT LIGHT
  - T = TIMER OPERATED
  - WP = WEATHER PROOF, NEMA 3R
  - X = EXPLOSION PROOF
  - VS = VACANCY SENSOR
- OS — CEILING MOUNTED OCCUPANCY SENSOR.
- VS — CEILING MOUNTED VACANCY SENSOR.
- LIGHT FIXTURES, VARIOUS. SEE LIGHTING FIXTURE SCHEDULE. DARK BLACK HATCH INDICATES EMERGENCY BATTERY OR EMERGENCY (LIFE SAFETY) GENERATOR POWER.
- EXIT SIGN, CEILING MOUNTED; EXIT SIGN, WALL MOUNTED. ARROWS INDICATE CHEVRON DIRECTION.
- COMBINATION EMERGENCY AND EXIT SIGN.
- EMERGENCY WALL PACK
- DATA; VOICE/DATA; VOICE OUTLET
- CR — CARD READER
- CAMERA
- # — MOTOR, # = HORSEPOWER (NIC)
- F# — REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2)
- XXX / XX — EQUIPMENT TAG; EQUIPMENT NUMBER
- XXX / X-XXX — DETAIL TAG/CALL OUT TAG; ELECTRICAL SHEET NUMBER
- VFD — VARIABLE FREQUENCY DRIVE
- SP — SPEAKER
- DS — MAGNETIC DOOR SWITCH
- B — PANIC BUTTON
- ES — ELECTRIC DOOR STRIKE
- MS — CEILING MOUNTED SECURITY MOTION SENSOR.
- BMS — BUILDING MANAGEMENT SYSTEM (NIC)

LIGHTING FIXTURE SCHEDULE

DESIGNATION	LAMP TYPE	DESCRIPTION	MOUNTING	CCT	CRI	LUMENS	VOLTAGE	WATTS	MANUFACTURER	MODEL	NOTES
B1	LED	2X4 RECESSED LED LIGHT FIXTURE	RECESSED	3500K	80	4000	120V	36.7W	LITHONIA	CPX 2X4 4000LM 80CRI 35K SWL MIN10 ZT MVOLT	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #E10W
B2	LED	2X4 RECESSED LED LIGHT FIXTURE	RECESSED	3500K	80	4000	120V	36.7W	LITHONIA	CPX 2X4 4000LM 80CRI 35K SWL MIN10 ZT MVOLT	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #E10W
B3	LED	2X2 RECESSED LED LIGHT FIXTURE	RECESSED	3500K	80	3200	120V	30.1W	LITHONIA	CPX 2X2 3200LM 80CRI 35K SWL MIN10 ZT MVOLT	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #E10W
F1	LED	2X2 RECESSED VANDAL RESISTANT LED LIGHT FIXTURE	RECESSED	3500K	80	4000	120V	32.9W	VRF	VRP 2X2 FG MIN1 ZT 4000LM 35K 80CRI MVOLT FPC125 AMF	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #AELR
F2	LED	1X4 SURFACE VANDAL RESISTANT LED LIGHT FIXTURE	SURFACE	3500K	80	3000	120V	23.6W	VRF	VRP 1X4 FG MIN1 ZT 3000LM 35K 80CRI MVOLT FPC125 AMF	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #AELR
F3	LED	1X4 RECESSED VANDAL RESISTANT LED LIGHT FIXTURE	RECESSED	3500K	80	3000	120V	23.6W	VRF	VRP 1X4 FG MIN1 ZT 3000LM 35K 80CRI MVOLT FPC125 AMF	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #AELR
D1	LED	1X4 RECESSED LED LIGHT FIXTURE	RECESSED	3500K	80	4000	120V	33.5W	LITHONIA	CPX 1X4 4000LM 80CRI 35K SWL MIN10 ZT MVOLT	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #E10W
A	LED	6" RECESSED CIRCULAR DOWNLIGHT	RECESSED	4000K	80	2000	120V	23.1W	LITHONIA	LDN6-40-20-L06-WH-LSS-TRW-MVOLT-GZ10	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #E10WCP
C	LED	6" RECESSED CIRCULAR DOWNLIGHT	RECESSED	4000K	80	2000	120V	23.1W	LITHONIA	LDN6-40-20-L06-WH-LSS-TRW-MVOLT-GZ10	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #E10WCP
H	LED	ARCHITECTURAL LED LINEAR DIRECT/INDIRECT LIGHT FIXTURE	RECESSED	3500K	80	500	120V	3.125W	ALCON	2100-66-RT-D-D3W5L-SQ8'8'-35K-WH-WH/WH-80	FOR HALF SHADED FIXTURES PROVIDE EMERGENCY PACK CATALOG NUMBER #EM12
X1	LED	CEILING MOUNTED SINGLE FACE LED EXIT SIGN	SURFACE CEILING	-	80	400	120V	2.1W	LITHONIA	LE-S-W-1-R-ELN	PROVIDE 90 MIN EMERGENCY BACKUP BATTERY WITH INTEGRAL TEST SWITCH.

WARNING
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NO.	DATE	DESCRIPTION
		BID DOCUMENT

REVISIONS

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

PROJ. ENG.:
DESIGNED BY: PB
CHECKED BY: SM
DRAWN BY: PB

CLIENT: Town of Tonawanda

DATE: SEPTEMBER 25TH, 2026
SCALE: NOT TO SCALE

JOB TITLE AND LOCATION: ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE
1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223

DRAWING TITLE: ELECTRICAL LEGENDS, ABBREVIATIONS & NOTES

LIRO JOB NO.: 25-147-0428
SHEET OF: 10 12
DRAWING NO.: E-001

FIRE ALARM DEMO NOTES:

1. CONTRACTOR TO MAKE ALL PRECAUTIONS TO LIMIT FIRE ALARM FALSE ALARMS DUE TO CONSTRUCTION PROCESS. PROVIDE TEMPORARY HEAT DETECTORS IN PLACE OF THE EXISTING SMOKE DETECTORS AND KEEP FIRE ALARM SYSTEM OPERATIONAL DURING CONSTRUCTION PERIOD, AND THEN SWITCHED OVER ONCE CONSTRUCTION IS COMPLETE.

2. CONTRACTOR TO PROTECT ALL EXISTING TO REMAIN FIRE ALARM DEVICES LOCATED IN THE WORK AREA. PROVIDE ALL NECESSARY SUPPORTS TO EXISTING CONDUITS.

GENERAL NOTES:

1. COORDINATE DISPOSAL OF ALL ITEMS NOT REQUESTED AS SALVAGE BY THE OWNER.

2. DRAWINGS DO NOT IDENTIFY ALL DEVICES, CABLING, OR EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE PRIOR TO BIDDING AND INCLUDE LABOR AND MATERIAL NECESSARY FOR REQUIRED DEMOLITION IN THEIR BID.

3. CONTRACTOR SHALL PATCH ALL UNUSED OPENINGS. PATCHWORK SHALL MATCH MATERIALS, FINISH, AND TEXTURE OF ADJACENT SURFACES

4. CONTRACTOR SHALL PROTECT ALL WALLS, CEILING, FLOORS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

5. MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY DEMOLITION.

6. ANY CONDUIT WITHIN WALLS THAT ARE BEING DEMOLISHED THAT PENETRATE THE FLOOR SLAB MUST BE CUT, GROUND, AND CAPPED A MINIMUM OF 1/8" BELOW THE FLOOR SURFACE. ELECTRICAL CONTRACTOR MUST THEN PATCH FLOOR FLUSH WITH FLOOR SURFACE.

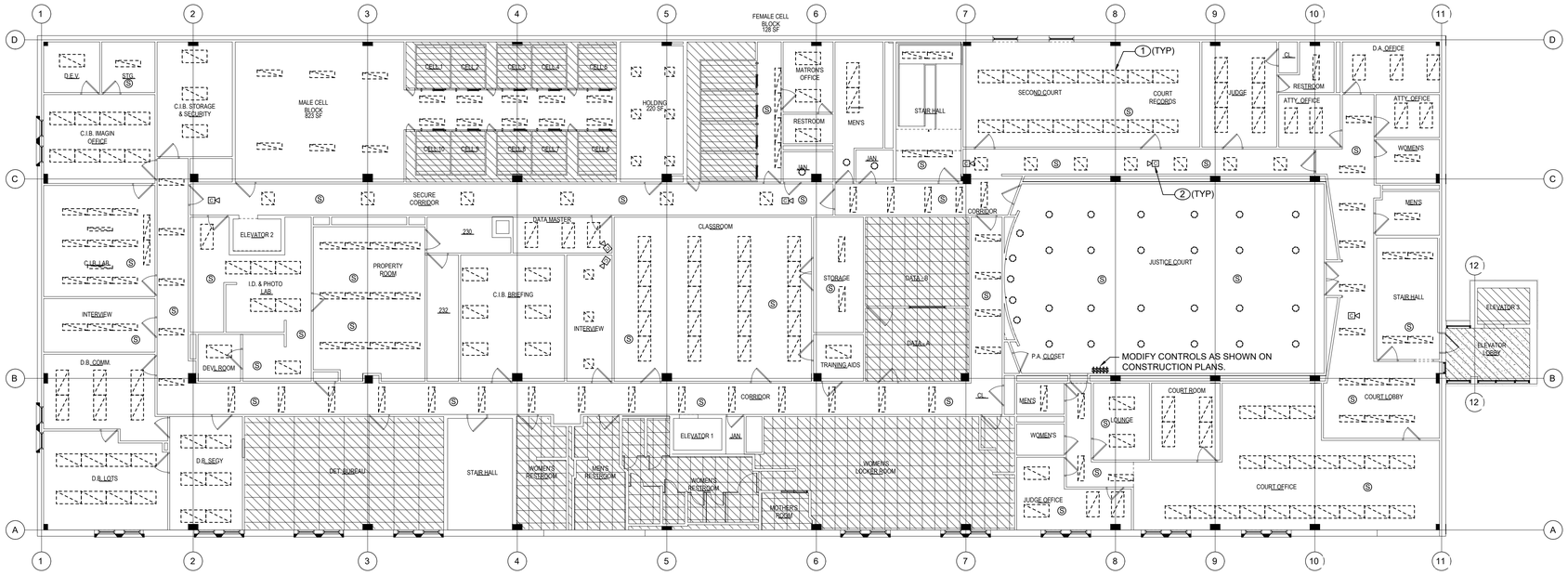
7. DUE TO PRESENCE OF ACM OVER THE CEILING, COORDINATE DEMOLITION WORK WITH HM DRAWING SET.

8. CONTRACTOR TO LOCATE ALL EXISTING LIGHTING CIRCUITS WITHIN THE AREA OF THE SCOPE OF WORK, AND PROTECT AND MAINTAIN ALL CIRCUITRY FROM PANELBOARD TO LIGHT SWITCH JUNCTION BOXES, AND FROM LIGHT SWITCH JUNCTION BOXES, TO NEW LIGHT FIXTURE LOCATIONS. REROUTE AND RELOCATE WIRING, OR EXTEND WIRING AS REQUIRED TO NEW LOCATIONS.

LIGHTING DEMOLITION NOTES:

(1) REMOVE ALL LIGHTING FIXTURES, AND ASSOCITED SWITCHES AND SENSORS, U.O.N., INCLUDING FIXTURES, STEMS, MOUNTS, HANGERS AND ACCESSORIES. EXISTING POWER CIRCUITS TO REMAIN AND TO BE REUSED FOR NEW WORK.

(2) TEMPORARILY SUPPORT ALL EXISTING SECURITY CAMERAS AS REQUIRED FOR DEMOLITION AND CEILING REPLACEMENT. UPON INSTALLATION OF THE NEW DROP CEILING, REINSTALL CAMERAS IN THEIR ORIGINAL POSITIONS AND RESTORE FULL FUNCTIONALITY.



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SECOND FLOOR PLAN - DEMOLITION

SCALE: 3/32"-1'-0"

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SCALE:	3/32" =1'-0"

JOB TITLE AND LOCATION: ABATEMENT AND RENOVATIONS TO 1835 SHERIDAN DRIVE
1835 SHERIDAN DRIVE, TONAWANDA, NEW YORK 14223

DRAWING TITLE: SECOND FLOOR PLAN DEMOLITION

LIRO JOB NO.: 25-147-0428

SHEET 11 OF 12

DRAWING NO.: E-101

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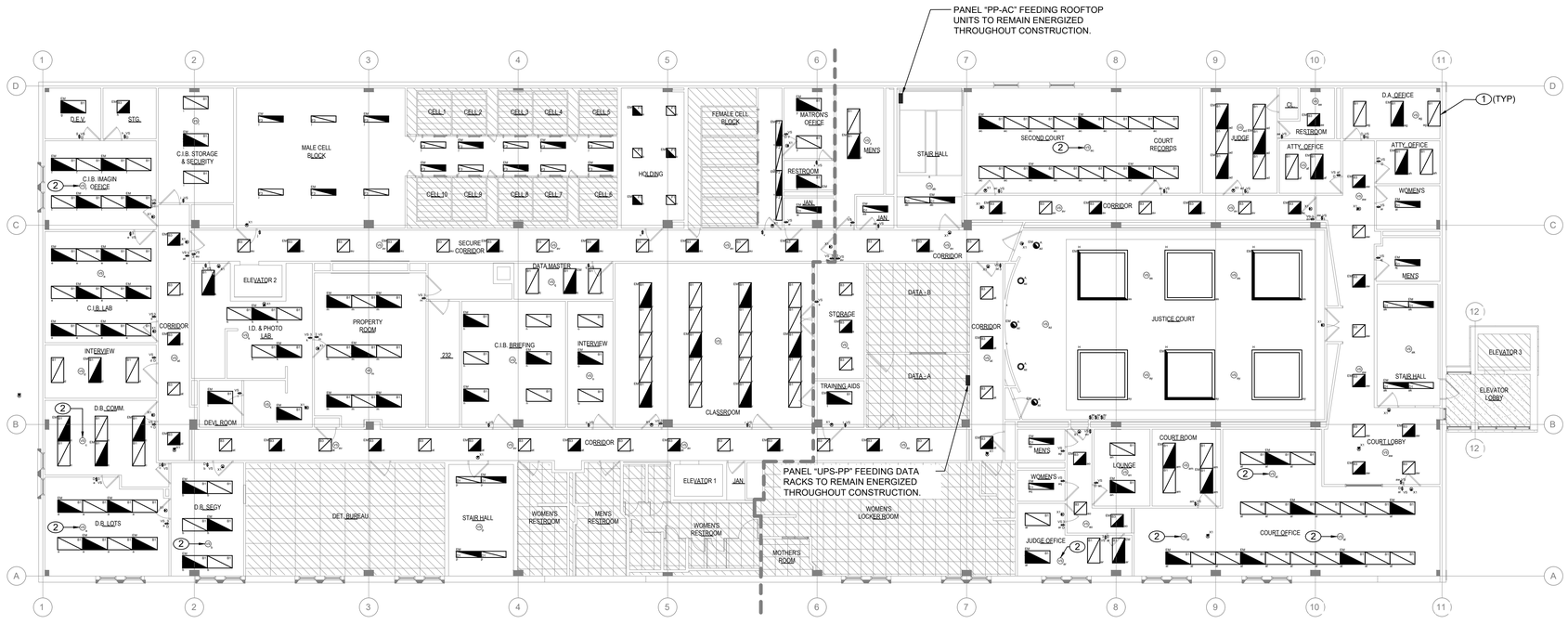
GENERAL NOTES:

1. PROTECT ALL ACTIVE ELECTRICAL CONDUITS, RACEWAYS, AND JUNCTION BOXES WITHIN ABATEMENT AREAS. COORDINATE SHUTDOWNS WHERE FEASIBLE. WHERE CONDUIT MUST REMAIN ENERGIZED, PROVIDE SECURE PHYSICAL SHIELDING (E.G., PLYWOOD OR METAL PROTECTION), SEALED COVERS OVER BOXES, AND CLEAR LABELING. MAINTAIN PROTECTION THROUGHOUT ABATEMENT AND RESTORE ALL SYSTEMS TO ORIGINAL CONDITION UPON COMPLETION.
2. DUE TO PRESENCE OF ACM OVER THE CEILING, COORDINATE DEMOLITION WORK WITH HAZARDS MATERIALS DRAWING SET.
3. PROVIDE ALL REQUIRED SUPPORTS FOR ADDITIONAL CABLING REQUIRED.
4. CONTRACTOR SHALL SHALL REPAIR ALL AFFECTED SURFACES AND MATCH MATERIALS, FINISH, AND TEXTURE OF ADJACENT SURFACES
5. PROVIDE ALL REQUIRED SUPPORTS FOR RECESSED LUMINAIRES. REFER TO DETAIL 1 ON DRAWING E-001 FOR ADDITIONAL INFORMATION.
6. ALL NEW VACANCY SENSORS, OCCUPANCY SENSORS, DAYLIGHT HARVESTING SENSORS, AND DIMMER SWITCHES ARE TO BE LINE-VOLTAGE RATED AND OPERATED. RE-USE ALL EXISTING WIRING WHERE POSSIBLE. PROVIDE NEW MC CABLING AS REQUIRED FOR NEW LAYOUT AND OPERATION.
7. CIRCUIT ALL EXIT SIGNS TO EXISTING CIRCUITRY MAINTAINED, AHEAD OF ANY AND ALL SWITCHING.

LIGHTING NOTES:

(1) RE-CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT MAINTAINED. PROVIDE NEW VACANCY SENSOR AND/OR DIMMER LIGHT SWITCH AS INDICATED IN EXISTING BACKBOX. MODIFY EXISTING CIRCUITRY AS REQUIRED. PROVIDE ADDITIONAL (2)#12,(1)#12G MC CABLE. PROVIDE NEW COVER PLATE FOR NEW SWITCHING DEVICE AS REQUIRED. COLOR AND FINISH TO BE COORDINATED WITH ARCHITECT.

(2) PROVIDE AND INSTALL LINE-VOLTAGE RATED VACANCY SENSOR / DAYLIGHT HARVESTING SENSOR COMBO UNIT.



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SECOND FLOOR PLAN

SCALE: 3/32"-1'-0"

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DRAWING TITLE:	SECOND FLOOR PLAN
LIRO JOB NO.:	25-147-0428
SHEET	12 OF 12
DRAWING NO.:	E-201