

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION

RAW WATER PUMP STATION ELECTRICAL UPGRADES

CONTRACT NO. 1A - GENERAL CONSTRUCTION
 CONTRACT NO. 1B - MECHANICAL CONSTRUCTION
 CONTRACT NO. 1C - ELECTRICAL CONSTRUCTION

TOWN OF LANSING
 TOMPKINS COUNTY, NEW YORK



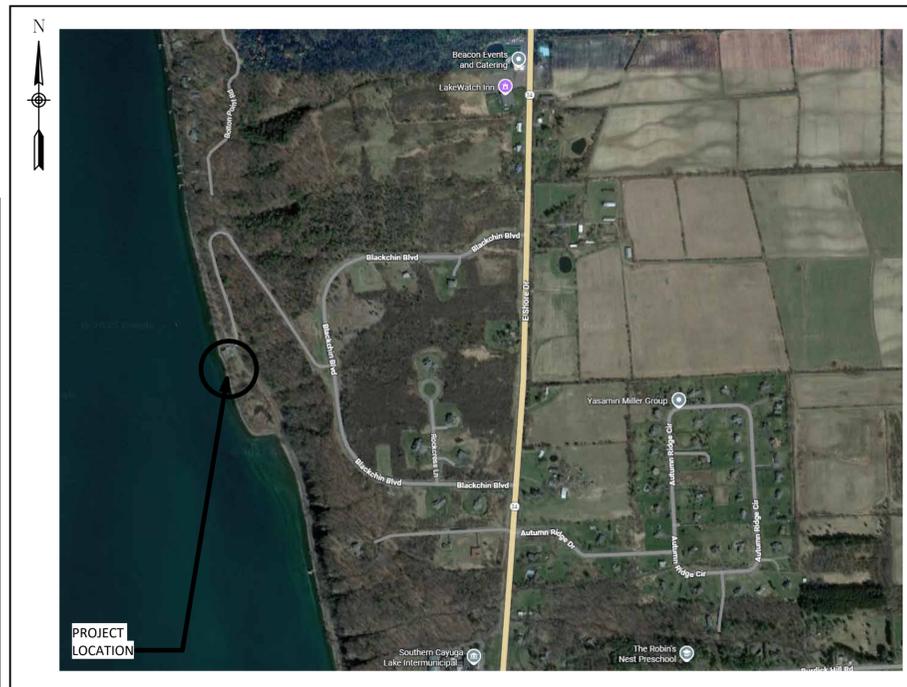
NYS CERTIFICATE # 0021642, 0020588, 0019903, 0019905, 0020336

FEBRUARY, 2026
 100% CONTRACT DRAWINGS

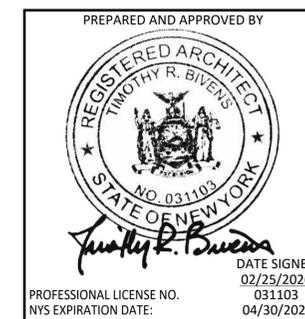
SHEET INDEX	
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LS101	LIFE SAFETY PLANS AND BUILDING CODE REVIEW
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IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 §7209 SPECIAL PROVISIONS, FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING PROFESSIONAL SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INDEX	
SHEET NO.	SHEET TITLE
S001	STRUCTURAL NOTES
S100	FOUNDATION/SLAB PLAN & ROOF FRAMING PLAN
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S501	TYPICAL MASONRY DETAILS
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S504	TRANSFORMER PAD DETAILING
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P101	ROOF DRAINING PLAN AND SECTION
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E101	ELECTRICAL SITE MODIFICATION PLAN
E111	PUMP STATION DEMOLITION AND MODIFICATION PLAN
E401	ELECTRICAL DIAGRAMS
E402	ELECTRICAL DIAGRAMS 2
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E601	ELECTRICAL SCHEDULES AND SITE PHOTO

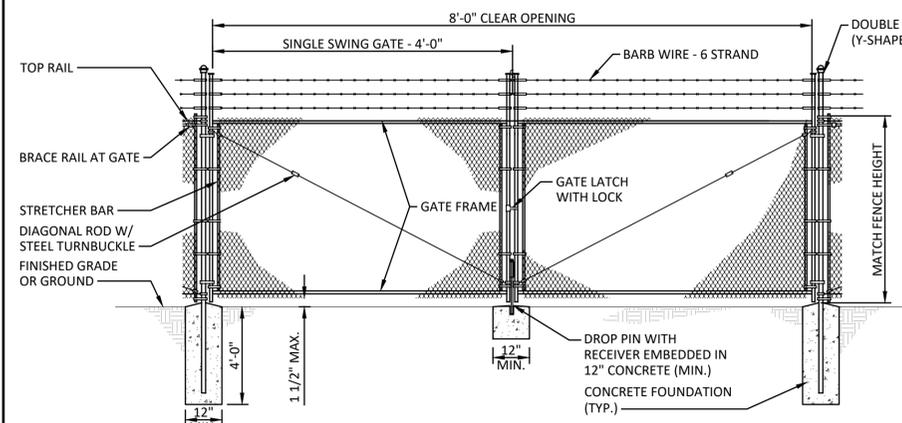


LOCATION PLAN
 SCALE: NOT TO SCALE

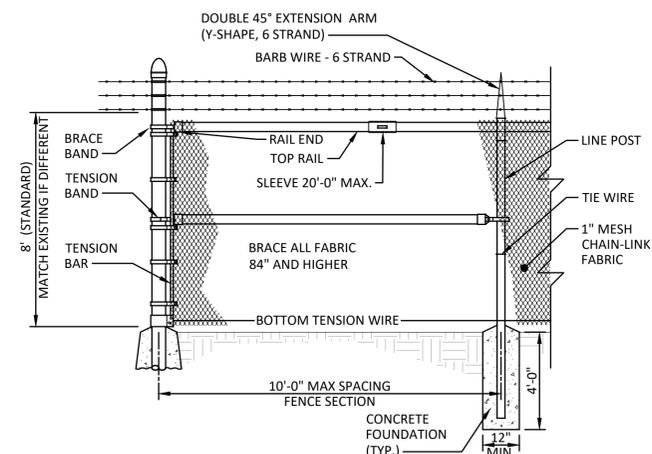


DATE SIGNED: 02/25/2026
 PROFESSIONAL LICENSE NO.: 031103
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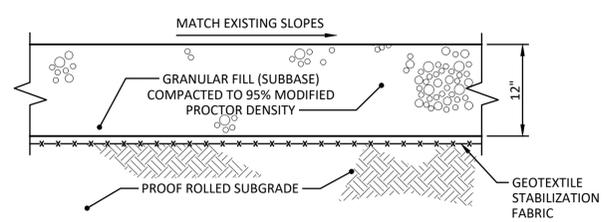
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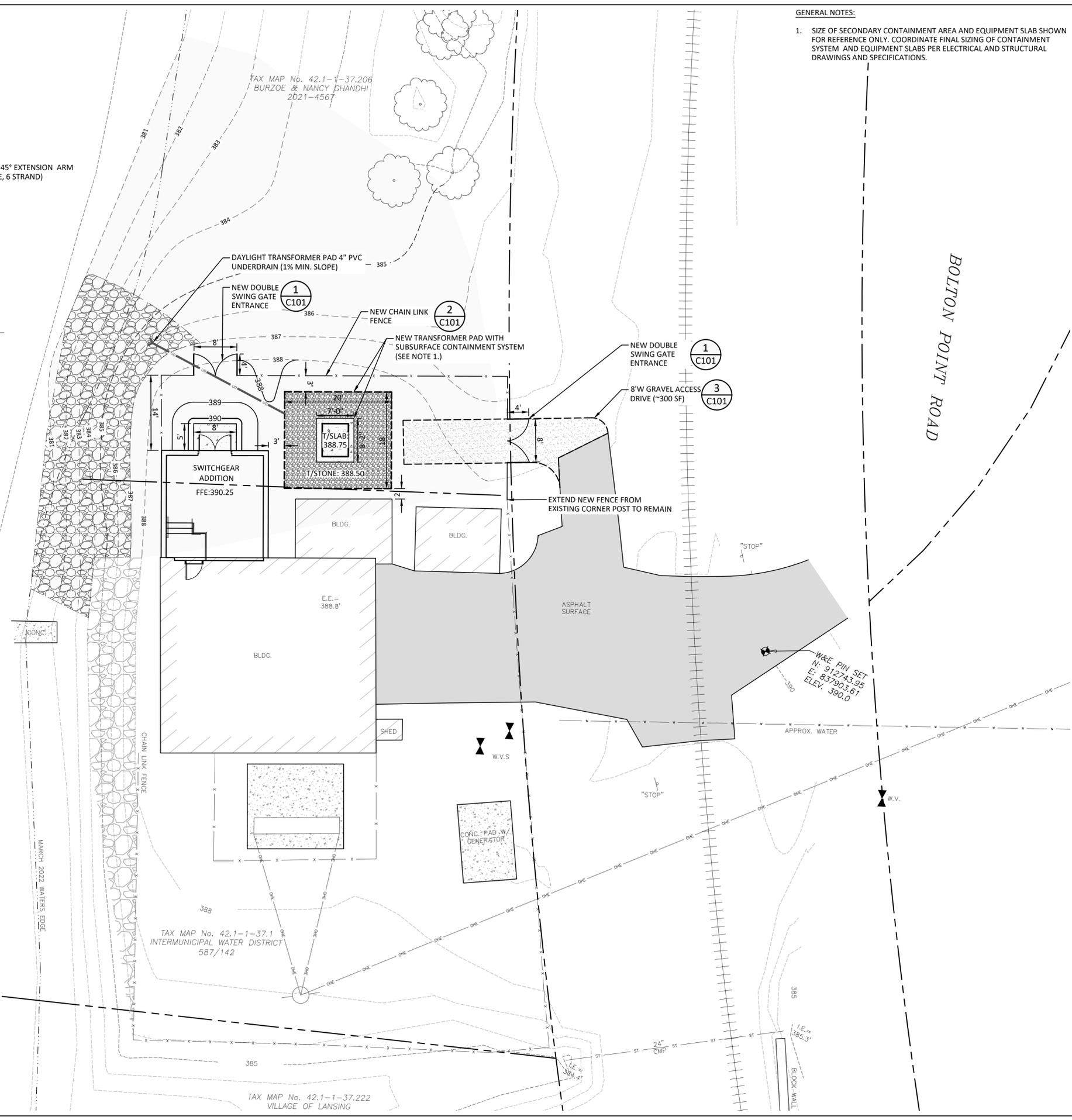
1 DOUBLE SWING GATE DETAIL
NOT TO SCALE



2 CHAIN LINK FENCE DETAIL
NOT TO SCALE



3 TYPICAL GRAVEL SECTION
NOT TO SCALE



GENERAL NOTES:
1. SIZE OF SECONDARY CONTAINMENT AREA AND EQUIPMENT SLAB SHOWN FOR REFERENCE ONLY. COORDINATE FINAL SIZING OF CONTAINMENT SYSTEM AND EQUIPMENT SLABS PER ELECTRICAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS.

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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

NYS EXP.: 06/30/2027
Date: FEBRUARY, 2026
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Sheet Number: **C101**
Project Number: 677.008.001

Printed: Jan 15, 2026 - 9:39AM
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Checked by: CVH
Drawn by: WBG/CNVW
Designed by: ZTP
In charge of: ZTP



ALLOWABLE HEIGHT (503/504)			
	ACTUAL	ALLOWABLE (TABLE 504.3/504.4)	INCREASE FOR SPRINKLERS
BUILDING HEIGHT IN FEET	18 FEET	40 FEET	N/A
BUILDING HEIGHT IN STORIES	1 STORY	1 STORY	N/A

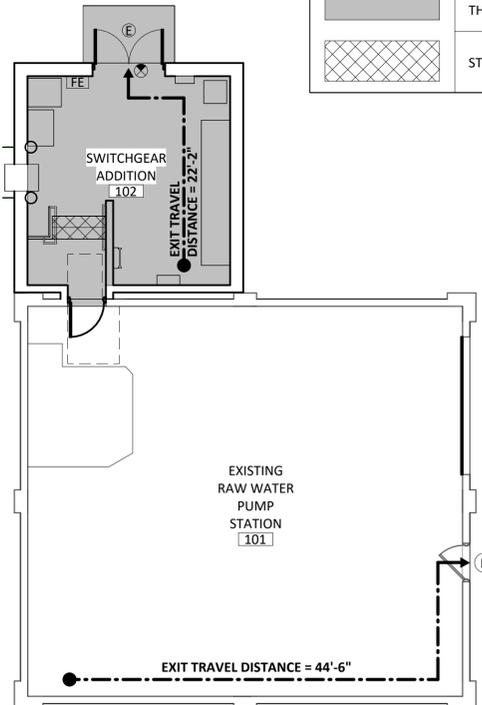
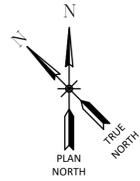
ALLOWABLE FLOOR AREA (503/506)					
STORY NO.	BUILDING AREA PER STORY (ACTUAL)	ALLOWABLE AREA (TABLE 506.2)	AREA FOR OPEN SPACE INCREASE (506.3)	AREA FOR SPINKLER INCREASE (507)	ALLOWABLE AREA WITH INCREASE
1	1,621 SF	8,500 SF	N/A	N/A	N/A

OCCUPANT LOAD & EXIT WIDTH (1004.5/1005.2)									
USE GROUP OR SPACE DESCRIPTION	(a)	(b)	(c)	(d)		EXIT WIDTH (in)			
	AREA (sq. ft.)	AREA PER OCCUPANT (TABLE 1004.5)	OCCUPANT LOAD (a/b)	EGRESS WIDTH PER OCCUPANT...		REQUIRED WIDTH (1005.3.1/1005.3.2) c x d		ACTUAL WIDTH SHOWN ON PLANS	
				STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
(101) EXISTING RAW WATER PUMP STATION	1,293 SF	300 SF	4.31	0.3"	0.2"	1.29"	0.86"	N/A	36"
(102) SWITCHGEAR ADDITION	328 SF	300 SF	1.09	0.3"	0.2"	0.33"	0.22"	52"	72"

NUMBER & ARRANGEMENT OF EXITS (1007.1)						
FLOOR, ROOM OR SPACE DESIGNATION	ACTUAL		TRAVEL DISTANCE (TABLE 1006.2.1)		ARRANGEMENT MEANS OF EGRESS (1007.1)	
	REQUIRED	ACTUAL	ALLOWABLE	ACTUAL	REQUIRED DISTANCE BETWEEN EXIT...	ACTUAL DISTANCE SHOWN ON PLANS
(101) EXISTING RAW WATER PUMP STATION	1	1	75'	44' - 6"	22' - 3"	N/A
(102) SWITCHGEAR ADDITION	1	1	75'	24' - 2"	12' - 1"	N/A

PROJECT DETAILS		
OWNER: SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER... ADDRESS: BLACKCHIN BLVD. ITHACA, NEW YORK 14850		
PROJECT TITLE: RAW WATER PUMP STATION ELECTRICAL UPGRADES ARCHITECT/ENGINEER: BARTON & LOGUIDICE, D.P.C.		
OCCUPANCY CLASSIFICATION: F-1	VARIANCE REQUESTED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
CONSTRUCTION CLASSIFICATION: VB		
PROJECT TYPE: CHECK ALL THAT APPLY.	<input type="checkbox"/> NEW BUILDING <input type="checkbox"/> REPAIR <input type="checkbox"/> RENOVATION <input checked="" type="checkbox"/> ALTERATION	<input type="checkbox"/> RECONSTRUCTION <input type="checkbox"/> CHANGE OF OCCUPANCY <input checked="" type="checkbox"/> ADDITION <input type="checkbox"/> HISTORIC BUILDING
	<input type="checkbox"/> CHAPTER 34 COMPLIANCE ALTERNATIVES. PROVIDE EVALUATION WITH THIS CODE REVIEW.	
WORK INVOLVED: CHECK ALL THAT APPLY.	<input checked="" type="checkbox"/> GENERAL CONSTRUCTION <input checked="" type="checkbox"/> ROOFING <input type="checkbox"/> ASBESTOS ABATEMENT <input type="checkbox"/> FIRE ALARM	<input checked="" type="checkbox"/> STRUCTURAL <input checked="" type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> PLUMBING <input checked="" type="checkbox"/> ELECTRICAL
	<input checked="" type="checkbox"/> SITE WORK <input type="checkbox"/> SPRINKLER <input type="checkbox"/> ELEVATORS <input type="checkbox"/> OTHER	

ENERGY CODE COMPLIANCE		
COMPLIANCE METHOD (C101.5) RESIDENTIAL (R202) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, INDICATE COMPLIANCE METHOD BELOW:		
ENERGY CONSERVATION CONSTRUCTION CODE OF NYS <input type="checkbox"/> CHECK ONE CHAPTER BOX & ONE GLAZING AREA BOX BELOW:		
CHAPTER 4 <input type="checkbox"/>	ONE/TWO FAMILY DWELLING WITH GLAZING AREA *15% <input type="checkbox"/> *15% <input type="checkbox"/>	
CHAPTER 5 <input type="checkbox"/>	R-2, R-4 OR TOWNHOUSE WITH GLAZING AREA *25% <input type="checkbox"/> *25% <input type="checkbox"/>	
CHAPTER 6 <input type="checkbox"/>		
COMMERCIAL (C202) YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, INDICATE COMPLIANCE METHOD BELOW:		
ENERGY CONSERVATION CONSTRUCTION CODE OF NYS <input checked="" type="checkbox"/>		
CHAPTER 7 <input type="checkbox"/>		
CHAPTER 8 <input type="checkbox"/>		
EXEMPT BUILDING? (C402.1.1, C402.1.2) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, DESCRIBE EXEMPTION TYPE BELOW:		
HISTORIC BUILDING? (C101.7) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
ALTERATION IN EXISTING BUILDING? (C503) YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF YES, LIST BUILDING SYSTEM(S) UNDERGOING SUBSTANTIAL ALTERATION(S) BELOW: ALTERATIONS LEVEL 1		
PROJECT LOCATION (C301.1) COUNTY: <u>TOMPKINS COUNTY</u> ZONE: <u>6A</u>		
THERMAL VALUES OF BUILDING COMPONENTS (C401, C402, C403, C404, C405, C406, C407) FILL IN VALUES BELOW AS APPLICABLE: BELOW GRADE WALL INSULATION - R-VALUE: _____ INSULATION DEPTH: _____ EXTERIOR WALL INSULATION - R-VALUE: _____ SLAB-ON-GRADE FLOOR INSULATION -... ROOF INSULATION - R-VALUE: _____ EXTERIOR DOORS - U-VALUE: _____		
	R-10ci FULL DEPTH R-15.2ci R-10 (FOR 24" BELOW) R-34ci R-4.75	



1 LIFE SAFETY PLAN
1/8" = 1'-0"

CODE REVIEW LEGEND	
	EXIT TRAVEL DISTANCE
	FIRE EXTINGUISHER
	ILLUMINATED EXIT SIGN
	EXIT
	HATCH REPRESENTS THE WORK AREA
	STAIR LOCATIONS

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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

LIFE SAFETY PLANS AND BUILDING CODE REVIEW

TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

NYS CERTIFICATE #
0021642, 0020588, 0019903,
0019905, 0020336

NYS EXP.: 04/30/2026

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Sheet Number: **LS101**

Project Number: 677.008.001

STANDARD ABBREVIATIONS

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AC	AIR CONDITIONING, ALTERNATE CURRENT	KW	KILOWATT (S)
ACM	ASBESTOS CONTAINING MATERIAL	MAN	MANUAL
ACT	ACOUSTIC CEILING SYSTEM	MAS	MASONRY
ADD	ADDENDUM	MAT	MATERIAL
ADJ	ADJACENT, ADJOINING, ADJUSTABLE	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MED	MEDIUM
ALT	ALTERNATE	MEZZ	MEZZANINE
ALUM	ALUMINUM	MFR	MANUFACTURE (ER)
AMP	AMPERE	MH	MANHOLE
APPROX	APPROXIMATE (LY)	MIN	MINIMUM
ARCH	ARCHITECT (URAL)	MIR	MIRROR
AUTO	AUTOMATIC	MISC	MISCELLANEOUS
AVG	AVERAGE	MO	MASONRY OPENING
		MTL	METAL
BD	BOARD	N	NORTH
BOF	BOTTOM OF FOOTING	N/A	NOT APPLICABLE
BLDG	BUILDING	NEG	NEGATIVE
BOT	BOTTOM	NIC	NOT IN CONTRACT
BS	BOTH SIDES	NTS	NOT TO SCALE
BTU	BRITISH THERMAL UNITS		
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CFMF	COLD FORMED METAL FRAMING	OD	OUTSIDE DIAMETER
CI	CAST IRON	OH	OVERHEAD
CJ	CONTROL JOINT	OPNG	OPENING
CL	CENTER LINE	OPP	OPPOSITE
CLG	CEILING		
CLR	CLEAR (ING)	PC	PLUMBING CONTRACTOR
CMU	CONCRETE MASONRY UNIT	PERF	PERFORATE (ION) (ED)
COL	COLUMN	PL	PLATE, PROPERTY LINE
CONC	CONCRETE	PLAM	PLASTIC LAMINATE
CONT	CONTINUOUS	PLYWD	PLYWOOD
CU FT	CUBIC FEET	PNL	PANEL
CW	COLD WATER	PR	PAIR
CWR	CHILLED WATER RETURN	PREP	PREPARE (ATION)
CWS	CHILLED WATER SUPPLY	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
DC	DIRECT CURRENT	PT	POINT
DDC	DIRECT DIGITAL CONTROL	PTP	PRESSURE TREATED PRESERVATIVE
DEG	DEGREES	PTFR	PRESSURE TREATED FIRE RETARDANT
DEMO	DEMOLISH	PVC	POLYVINYL CHLORIDE
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	RD	ROOF DRAIN
DIAG	DIAGONAL	REF	REFERENCE
DIM	DIMENSION	REINF	REINFORCE (ED) (ING)
DN	DOWN	RO	ROUGH OPENING
DWG	DRAWING	ROW	RIGHT OF WAY
DTL	DETAIL	RTU	ROOF TOP UNIT
EC	ELECTRICAL CONTRACTOR	S	SOUTH
EIFS	EXTERIOR INSUL. & FINISH SYSTEM	SAN	SANITARY
EJ	EXPANSION JOINT	SCHEDE	SCHEDULE
ELEC	ELECTRIC (AL)	SHR	SHOWER
ELEV	ELEVATION	SIM	SIMILAR
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	SPEC	SPECIFICATION (S)
EQ	EQUAL	SPKR	SPRINKLER
EQUIP	EQUIPMENT	SQ	SQUARE
EW	EACH WAY	SS	STAINLESS STEEL
EXP	EXPANSION	ST	STORM, STORAGE
EXT	EXTERIOR, EXTERNAL	STD	STANDARD
		STL	STEEL
FD	FLOOR DRAIN, FIRE DAMPER	SYS	SYSTEM
FDC	FIRE DEPARTMENT CONNECTION		
FE	FIRE EXTINGUISHER	T	TREAD, TOP
FEC	FIRE EXTINGUISHER CABINET	T&B	TOP AND BOTTOM
FF	FINISHED FLOOR, FACTORY FINISH	T&G	TONGUE AND GROOVE
FFE	FINISHED FLOOR ELEVATION	TEL	TELEPHONE
FIN	FINISH (ED)	TEMP	TEMPERATURE
FLR	FLOOR (ING)	THK	THICKNESS
FND	FOUNDATION	THR	THRESHOLD
FT	FOOT	TOIL	TOILET
FTG	FOOTING	TOM	TOP OF MASONRY
		TOS	TOP OF STEEL
G	GAS	TV	TELEVISION
GALV	GALVANIZED	TOW	TOP OF WALL
GC	GENERAL CONTRACT (OR)	TYP	TYPICAL
GL	GLASS		
GPM	GALLONS PER MINUTE	UC	UNDERCUT
GWB	GYPSON WALL BOARD	UNF	UNFINISHED
GYP	GYPSON	UNO	UNLESS OTHERWISE NOTED
HC	HEATING CONTRACTOR	VAT	VINYL ASBESTOS TILE
HD	HEAVY DUTY	VCT	VINYL COMPOSITE TILE
HM	HOLLOW METAL	VERT	VERTICAL
HOR	HORIZONTAL	VIF	VERIFY IN FIELD
HT	HEIGHT	VWC	VINYL WALL COVERING
HTG	HEATING		
HVAC	HEATING/VENT./AIR CONDITIONING	WC	WATER CLOSET
HVY	HEAVY	WD	WOOD
HW	HOT WATER	WI	WROUGHT IRON
HWR	HOT WATER RETURN	WT	WEIGHT
HWS	HOT WATER SUPPLY	W/	WITH
		W/O	WITHOUT
IN	INCHES	YD	YARD DRAIN, YARD
INCL	INCLUDE (D) (ING)		
INT	INTERIOR		
INV	INVERT		
JC	JANITORS CLOSET		
JCT	JUNCTION		
JT	JOINT		

***NOTE: THE ABOVE STANDARD ABBREVIATIONS ARE PROVIDED FOR GENERAL REFERENCE AND MAY OR MAY NOT BE REPRESENTATIVE OF ALL ABBREVIATIONS USED THROUGHOUT THE CONTRACT DOCUMENTS.

GENERAL NOTES

- DESIGN AND CONSTRUCTION SHALL CONFORM TO ALL LOCAL AND STATE CODES, INCLUDING (BUT NOT LIMITED TO) THE "NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE", LATEST REVISION, THE NFPA 101 LIFE SAFETY CODE, LATEST REVISION, ANSI A117.1 -1992 (REVISED 1995), LATEST REVISION, OSHA, AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THIS PROJECT IS BEING CONSTRUCTED.
- THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE SAME, REGARDLESS OF WHETHER OR NOT EACH AND EVERY NECESSARY WORK OR ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND/OR NOTES.
- WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIALS. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW, UNLESS INDICATED EXISTING. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED OR REPLACED. WHERE ITEM CAN NOT BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEM SHALL BE REPLACED, AT NO COST TO THE OWNER.
- ALL CONTRACTORS ARE RESPONSIBLE TO VERIFY ALL SITE, FIELD AND BUILDING CONDITIONS PRIOR TO SUBMITTING BIDS AND COMMENCING WORK, IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, CONFER WITH ARCHITECT / ENGINEER FOR RESOLUTION.
- DRAWINGS DO NOT INDICATE ALL DEMOLITION / REMOVALS. ALL CONTRACTORS ARE TO REFER TO DRAWINGS, SPECIFICATIONS AND VERIFY FIELD CONDITIONS TO DETERMINE FULL SCOPE AND PARTICULARS OF REMOVAL REQUIREMENTS PRIOR TO BIDDING WORK. CONFER WITH OWNER WHICH ITEMS ARE TO BE SAVED FOR OWNER'S USE OR REINSTALLATION BY CONTRACTOR.
- CONTRACTOR SHALL OBTAIN FROM OWNER ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT INCLUDING ROUGHING DIAGRAMS, INSTALLATION INSTRUCTIONS, ELECTRICAL SCHEMATICS, TEMPLATES, LAYOUTS AND DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER, WELL COORDINATED INSTALLATION. PRIOR TO ROUGH-IN OF SERVICES, CONFER WITH OWNER EXACT LOCATION OF ALL ITEMS.
- ALL PENETRATIONS THROUGH FLOORS AND FULL HEIGHT WALLS TO BE FIRE STOPPED. ALL GAPS AND JOINTS AT RATED FLOORS, ROOFS AND WALLS TO BE FIRE STOPPED. GAPS AND JOINTS INCLUDE (BUT ARE NOT LIMITED TO) TOP OF WALL TO FLOOR OR ROOF DECK, WALL TO BEAMS, AND CONTROL OR EXPANSION JOINTS. FIRE STOPPING INCLUDES BOTH FORM OR PACKING MATERIAL AND THE FILL, VOID OR CAVITY MATERIAL.
- EXTERIOR PERIMETER OF ALL WINDOWS, DOOR FRAMES, LOUVERS, OR OTHER ITEMS INSERTED IN AN EXTERIOR WALL SHALL BE SEAL WEATHER TIGHT WHETHER INDICATED ON DRAWINGS OR NOT.
- WOOD USED FOR BLOCKING OR OTHER PURPOSES ON OR ABOVE THE ROOF DECK, WITHIN 2'-0" OF GRADE AND OTHER LOCATIONS OUTSIDE THE BUILDING ENVELOPE WHERE EXPOSED TO THE WEATHER, SHALL BE PRESSURE TREATED TYPE (P.T.P.). ALL INTERIOR WOOD FOR BLOCKING OR OTHER PURPOSES TO BE FIRE RETARDANT (PTFR) TYPE.
- FINISHED DOOR OPENINGS SHALL BE NOMINAL @ 6" FROM FINISHED CORNER OF ROOM AT HINGE SIDE, EXCEPT WHERE DIMENSIONED OTHERWISE. ON THE 'PULL' SIDE OF A DOOR OPENING, THE STRIKE SIDE SHALL BE NOMINAL 18" FRAME PERPENDICULAR WALL. ON THE "PUSH" SIDE OF A DOOR OPENING EQUIPPED W/ BOTH A CLOSER AND LATCH, THE STRIKE SIDE SHALL BE NOMINAL 12" FROM A PERPENDICULAR WALL.
- SUSPENDED GRID CEILING SHALL BE ARRANGED SO THAT A GRID IS SPACED EQUALLY FROM EACH MOST REMOTE WALL, IN EACH DIRECTION, WITH NO TILE LESS THEN 6" UNLESS OTHERWISE INDICATED.
- INTERIOR AND EXTERIOR CONCRETE SLABS SHALL BE SEPARATED FROM ANY VERTICAL SURFACE WITH AN ISOLATION JOINT. ALL SLAB-ON-GRADE (CONTROL, EXPANSION, ETC.) JOINTS TO RECEIVE SEALANT FOR RADON PROTECTION.
- PROVIDE BUILDING EXPANSION JOINT AND CONTROL JOINTS AT INTERIOR AND EXTERIOR MASONRY WALLS PER THE BRICK INSTITUTE OF AMERICA AND THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS AND RECOMMENDATIONS AND WHERE BUILDING ADDITIONS MEET EXISTING BUILDING. AT RATED WALLS, EXPANSION JOINT OR CONTROL JOINT TO EQUAL WALL RATING.
- REMOVE DEBRIS AND OTHER MATERIALS (RESULTING FROM DEMOLITION) FROM SITE AS DEMOLITION PROGRESSES. REMOVE RUBBISH FROM JOB SITE REGULARLY AND LEAVE PREMISES AND WORK IN CLEAN CONDITION. RUBBISH SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE APPROPRIATELY DISPOSED OF. PRIOR TO COMPLETION, CLEAN PREMISES FOR OCCUPANCY BY OWNER.
- ALL CONTRACTORS ARE TO COORDINATE THE WORK OF EACH OTHER, SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, CONFER WITH EACH CONTRACTOR EXACT LOCATION OF ALL ITEMS.
- GENERAL CONTRACTOR SHALL FIELD VERIFY FINISHED DIMENSIONS AND CLEARANCES IN SPACES INDICATED TO RECEIVE BUILT-IN FURNISHINGS OR CASEWORK PRIOR TO FABRICATION.
- ALL VERTICAL CONCRETE SURFACES WHICH WILL BE EXPOSED TO VIEW UPON COMPLETION OF WORK SHALL RECEIVE A SMOOTH RUBBED FINISH.
- PROVIDE #4 VERTICAL REINFORCING IN ALL MASONRY WALLS AT HOLLOW METAL DOOR JAMBS, CORNERS AND AS INDICATED ON THE STRUCTURAL DRAWINGS. AT MASONRY JAMBS FOR WALL MOUNTED COILING OR SECTIONAL DOOR TRACKS PROVIDE (2) #4 VERTICAL BARS. GROUT CORES SOLID WITH 3000 PSI GROUT.
- ALL ENDS OF MASONRY WALLS THAT WILL BE EXPOSED TO VIEW UPON COMPLETION OF WORK SHALL BE BULLNOSE ENDS UNITS.
- PROVIDE GAP BETWEEN TOP OF MASONRY AT ALL LOCATIONS WHERE MASONRY EXTENDS TO UNDERSIDE OF STRUCTURAL MEMBER OR FLOOR/ROOF DECK WITH LATERAL SUPPORT.
- ALL CMU SHALL HAVE HORIZONTAL JOINT REINFORCING AT EVERY OTHER COURSE, UNLESS OTHERWISE NOTED.
- ALL BRICK MASONRY UNITS WHICH WOULD HAVE CORES EXPOSED DUE TO DETAILING SHALL BE SOLID UNITS.
- PROVIDE CONTROL JOINTS IN MASONRY AND GYPSUM BOARD/STUD PARTITIONS AT SPACING NOT EXCEEDING 25'-0" O.C. IN STRAIGHT RUNS EXCEEDING 25'-0" IN LENGTH. IN PARTITION TYPES WHICH INCLUDE BOTH TYPES OF CONSTRUCTION, CONTROL JOINTS SHALL ALIGN FROM UPPER TO LOWER CONSTRUCTION. LOCATE CONTROL JOINTS AT DOOR/WINDOW UNITS TO THE GREATEST EXTENT POSSIBLE.
- NOT USED.
- ALL GYPSUM BOARD SHALL BE TYPE 'X'. ALL JOINTS SHALL BE FINISHED WITH TAPE AND JOINT COMPOUND. PROVIDE LEVEL 4 FINISH AT ALL JOINTS WHICH WILL BE EXPOSED TO VIEW UPON PROJECT COMPLETION. PROVIDE LEVEL 1 FINISH AT JOINTS WHICH WILL REMAIN CONCEALED. PROVIDE GALVANIZED STEEL CORNER BEADS AT ALL EXPOSED CORNERS.
- ALL METAL STUD WALLS DESIGNED TO RECEIVE TILE FINISH SHALL BE SHEATHED WITH 5/8" CEMENTITIOUS TILE BACKER BOARD. STUDS IN SUCH WALLS SHALL BE 20 GA.
- PROVIDE MOISTURE/MOLD RESISTANT GYPSUM BOARD ON ALL WALLS BEHIND OR ADJACENT TO PLUMBING FIXTURES UNLESS THEY ARE TO RECEIVE A TILE FINISH.
- AT ALL LOCATIONS WHERE GYPSUM BOARD PARTITIONS TERMINATE AT DISSIMILAR MATERIALS, PROVIDE A FINISH-ABLE METAL J-MOLD AND A 1/8" GAP BETWEEN TRIM AND ADJACENT MATERIAL. FILL GAP WITH BACKERROD AND SEALANT.
- PROVIDE DEFLECTION TRACK OR CLIP AT TOP OF ALL METAL STUD PARTITIONS THAT EXTEND TO THE UNDERSIDE OF STRUCTURAL MEMBERS OR FLOOR/ROOF DECK.
- PROVIDE HORIZONTAL BRIDGING IN ALL INTERIOR AND EXTERIOR METAL STUD WALLS/PARTITIONS AT 5'-0" VERTICAL, MAX.
- PROVIDE DOUBLE STUDS AT ALL DOOR AND WINDOW JAMBS.
- PROVIDE BLOCKING IN ALL WALL AND CEILING CONSTRUCTION AS REQUIRED TO SUPPORT WALL MOUNTED CASEWORK, FURNISHINGS RAILINGS, TOILET AND BATH ACCESSORIES OR ANY OTHER WALL MOUNTED ITEMS.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING OPENINGS IN WALLS AND FLOOR SYSTEMS FOR INSTALLATION OF THEIR WORK. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL PROVIDE LOCATIONS OF ROOF OPENINGS TO GENERAL CONSTRUCTION CONTRACTOR.
- ELECTRICAL, MECHANICAL OR PLUMBING PENETRATIONS THROUGH FIRE-RATED WALL OR FLOOR ASSEMBLIES (IF ANY - SEE LIFE SAFETY DRAWING LS101) SHALL BE SEALED BY EACH RESPONSIBLE CONTRACTOR WITH A U.L. APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM APPROPRIATE FOR THE RATING OF THE WALL BEING PENETRATED. SUBMIT PROPOSED U.L. NUMBERS AND DETAILS TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- ANY COLORS/FINISHES NOT SPECIFICALLY IDENTIFIED SHALL BE SELECTED FROM MANUFACTURER'S STANDARD COLOR/FINISHES DURING SUBMITTAL REVIEW.
- ALL STEEL MEMBERS (INCLUDING BUT NOT LIMITED TO: COLUMNS, BASE PLATES, BEAMS, JOISTS, FLOOR/ROOF DECK, LINTELS, BUMPER RAILS, HANDRAILS, GUARDRAILS, MISCELLANEOUS PLATES, STAIRS/RISERS/LANDINGS, CONDUIT, DUCTWORK, PIPING HANGERS ETC.) THAT ARE EXPOSED TO VIEW UPON COMPLETION OF THE PROJECT SHALL BE FIELD PAINTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR TO FURNISH AND INSTALL FIRE EXTINGUISHER CABINETS.
- NOT USED.
- NOT USED.
- CONTRACTOR IS RESPONSIBLE FOR INFILL/PATCHING & FINISHING OF ALL SURFACES IMPACTED BY MECHANICAL, PLUMBING & ELECTRICAL WORK AND IS RESPONSIBLE FOR COORDINATION BETWEEN THESE TRADES.

STANDARD SYMBOLS

	BUILDING SECTION
	WALL SECTION
	DETAIL CALL-OUT
	KEY PLAN NORTH ARROW
	FLOOR PLAN NORTH ARROW
ROOM NAME 101	ROOM IDENTIFICATION TAG
	INTERIOR ELEVATION MARKER
	EXTERIOR ELEVATION MARKER
101	DOOR IDENTIFICATION TAG
1t	WINDOW IDENTIFICATION TAG
1i	WALL IDENTIFICATION TAG
	KEY NOTE TAG
	FIRE EXTINGUISHER
	ELEVATION MARKER
X	NEW COLUMN GRID MARKER
EX x	EXISTING COLUMN GRID MARKER
	DRAWING REVISION CLOUD
	DETAIL BOUNDARY
ROOM NAME 150 SF	ROOM NAME WITH ROOM SQUARE FEET
	SPAN DIRECTION
	VIEW TITLE

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REVISIONS

No.	Description

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

STANDARD SYMBOLS, NOTES & ABBREVIATIONS

TOWNSHIP OF LANSING
TOMPKINS COUNTY, NEW YORK

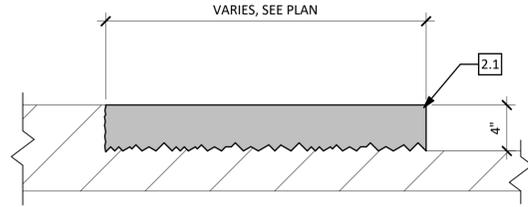
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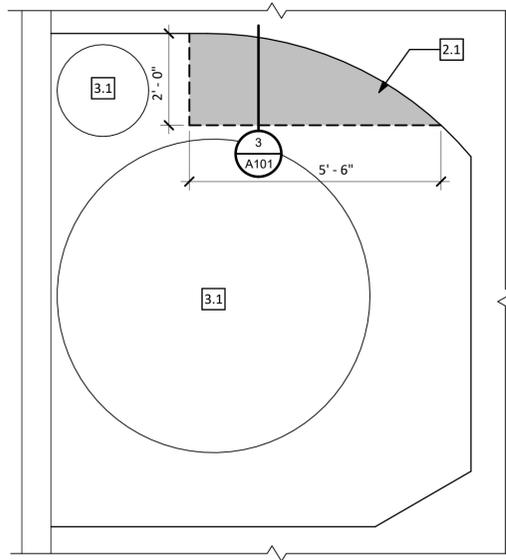
REGISTERED ARCHITECT
TIMOTHY R. BIEREN
NO. 051103
STATE OF NEW YORK

Timothy R. Bieren
NY's EXP.: 04/30/2026

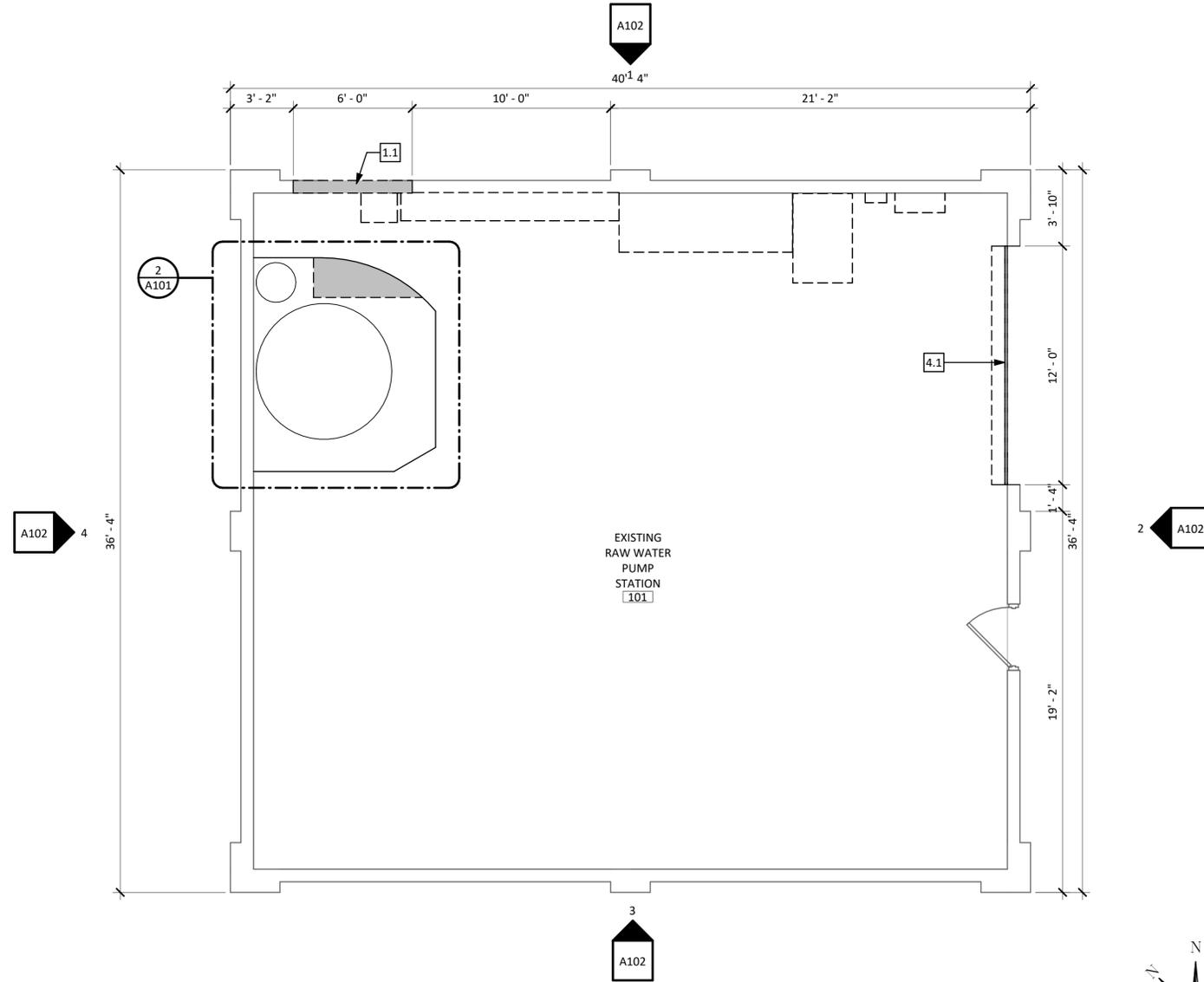
Date	FEBRUARY, 2026
Scale	AS SHOWN
Sheet Number	A001
Project Number	677.008.001



3 CONCRETE EQUIP. PAD DEMOLITION DETAIL
1 1/2" = 1'-0"



2 ENLARGED EXISTING/DEMOLITION PLAN
1/2" = 1'-0"



1 EXISTING/DEMOLITION PLAN
1/4" = 1'-0"

DEMOLITION LEGEND

	INDICATES TYPICAL WALL DEMOLITION
	TYPICAL DEMOLITION ITEM
	INDICATES CONSTRUCTION AREA

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REVISIONS

DEMO KEY NOTES

- 1.1 SAWCUT & REMOVE SECTION OF CONCRETE MASONRY WALL AS SHOWN. G.C. RESPONSIBLE FOR STABILIZATION/SHORING OF EXISTING WALL TO REMAIN, SEE STRUCTURAL DRAWINGS FOR NEW LINTEL FRAMING/VERTICAL REINFORCING, (TYP.)
- 2.1 SAWCUT & REMOVE SECTION OF 4" THK. RAISED CONCRETE EQUIPMENT PAD, REMOVE TO A DEPTH BELOW ADJACENT CONCRETE FLOOR SLAB, ROUGH BOTH FLOOR AND EQUIPMENT PAD WALL SURFACE IN PREPARATION FOR NEW FINISH MATERIAL
- 3.1 EXISTING EQUIPMENT TANKS TO REMAIN LOCATED ON EXISTING RAISED CONCRETE EQUIPMENT PAD. GENERAL CONTRACTOR TO PROVIDE PROTECTION AS REQUIRED TO EXISTING EQUIPMENT TANKS TO AVOID DAMAGE WHILE CONDUCTING DEMOLITION TO EXISTING RAISED CONCRETE EQUIPMENT PAD (TYP.)
- 3.2 EXISTING ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS (TYP.)
- 3.3 EXISTING MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS (TYP.)
- 4.1 REMOVE EXISTING COILING OVERHEAD DOOR. INCLUDE MOTOR/OPERATOR, TRACKS, BRACKETS, METAL JAMB AND HEAD TRIM.
- 5.1 PREPARE EXISTING EXTERIOR WALLS FOR PAINT (TYP. ALL EXTERIOR WALL FINISHES ON EXISTING FACILITY)

GENERAL NOTES

- CONTRACTOR TO REVIEW AND COORDINATE DEMOLITION OF ALL WORK WITH OWNER PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR(S) SHALL COORDINATE WITH OWNER WHICH ITEMS SHALL BE TURNED OVER TO THE OWNER PRIOR TO THE START OF WORK. THIS SHALL BE, BUT NOT LIMITED TO ITEMS LISTED ON THE CONTRACT DRAWINGS OR IDENTIFIED BY THE OWNER.
- ALL QUESTIONS REGARDING DEMOLITION INFORMATION CONTAINED ON THIS DRAWING SHALL BE ADDRESSED TO THE ARCHITECT.
- FIELD VERIFY EXISTING CONDITIONS, AND VERIFY WITH ARCHITECT ANY DISCREPANCIES OR CHANGES TO THE CONTRACT DOCUMENTS PRIOR TO COMMENCING DEMOLITION WORK.
- PROTECT EXISTING BUILDING FINISHES THAT ARE TO REMAIN DURING CONSTRUCTION.
- CONTRACTOR SHALL ACQUAINT THEMSELVES WITH THE INTENT OF THE NEW CONSTRUCTION, AND PERFORM DEMOLITION THAT IS COMPATIBLE WITH THE PROPOSED SCOPE OF THE PROJECT AS A WHOLE.

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

EXISTING/DEMOLITION FLOOR PLAN, DETAILS & NOTES

TOWNSHIP OF LANSING
TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

NYS CERTIFICATE #
0021642, 0020588, 0019903,
0019905, 0020336

B&L

REGISTERED ARCHITECT
TIMOTHY R. BIERER
NO. 021103
STATE OF NEW YORK

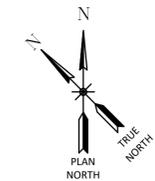
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NYS EXP.: 04/30/2026

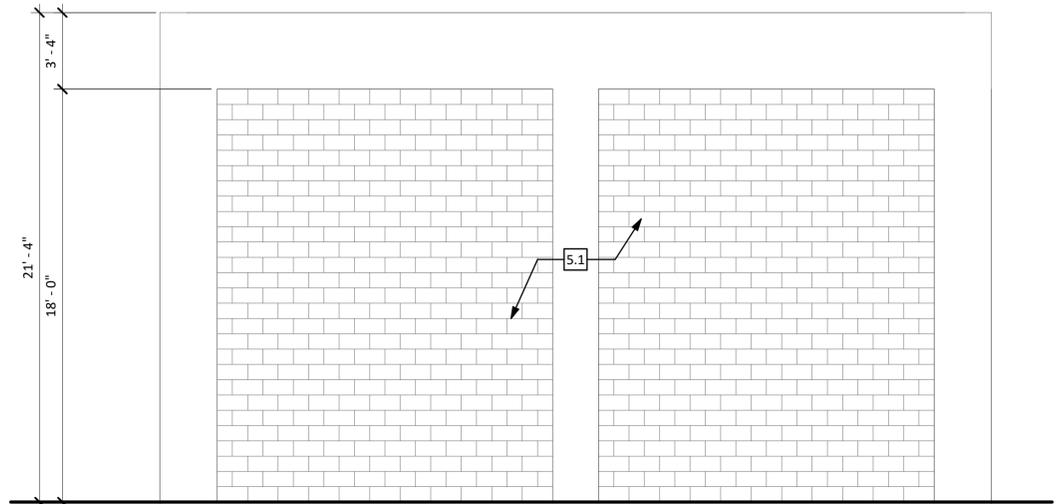
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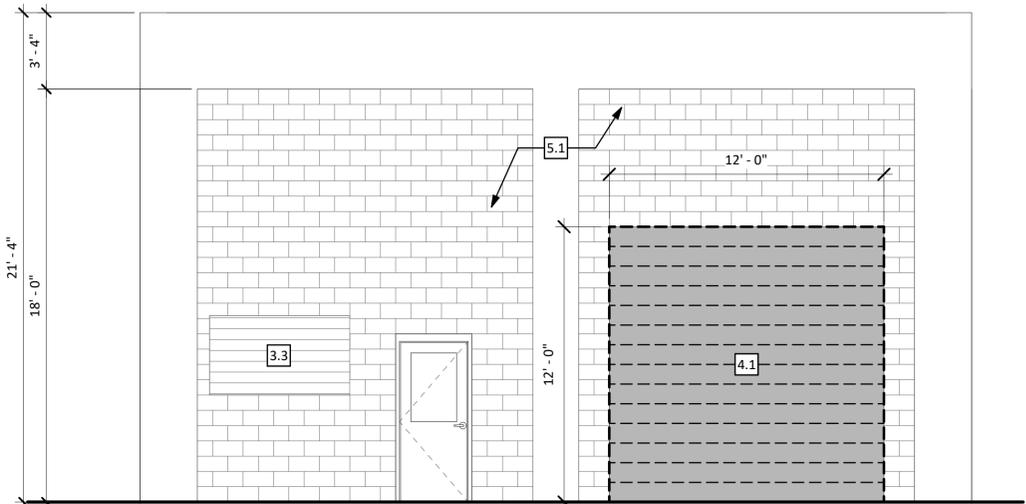
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Project Number: 677.008.001

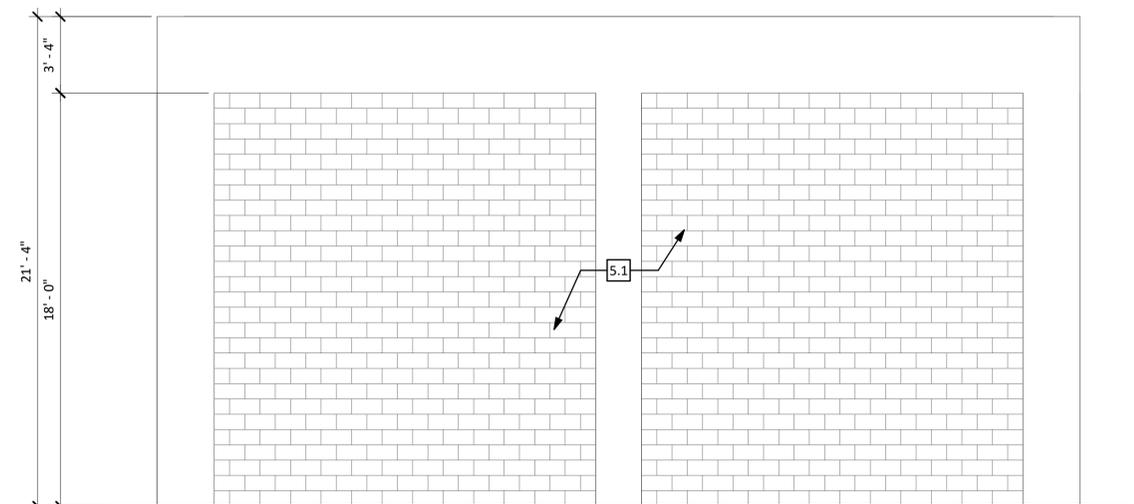




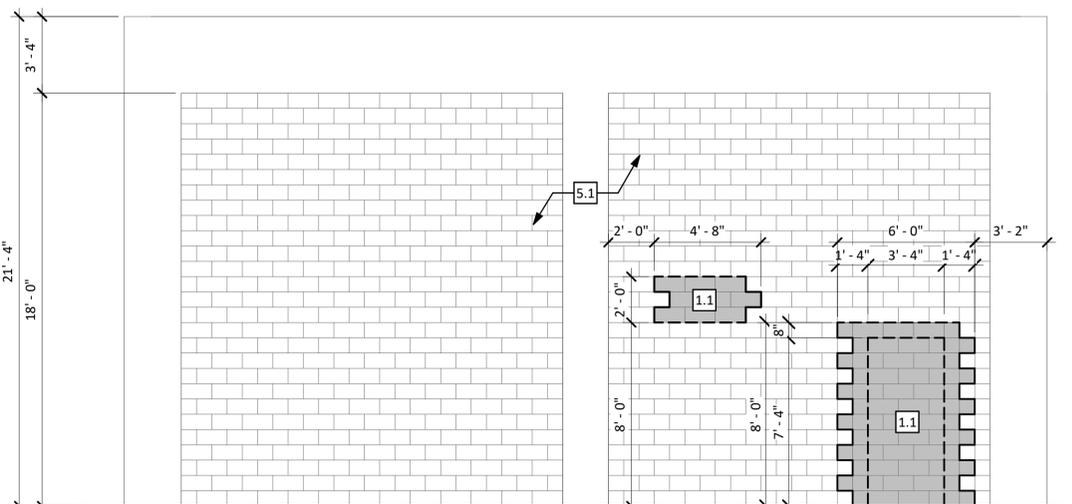
4 EXISTING/DEMOLITION WEST ELEVATION
 1/4" = 1'-0"



2 EXISTING/DEMOLITION EAST ELEVATION
 1/4" = 1'-0"



3 EXISTING/DEMOLITION SOUTH ELEVATION
 1/4" = 1'-0"



1 EXISTING/DEMOLITION NORTH ELEVATION
 1/4" = 1'-0"

DEMOLITION LEGEND

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	TYPICAL DEMOLITION ITEM
	INDICATES CONSTRUCTION AREA

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REVISIONS

DEMO KEY NOTES

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GENERAL NOTES

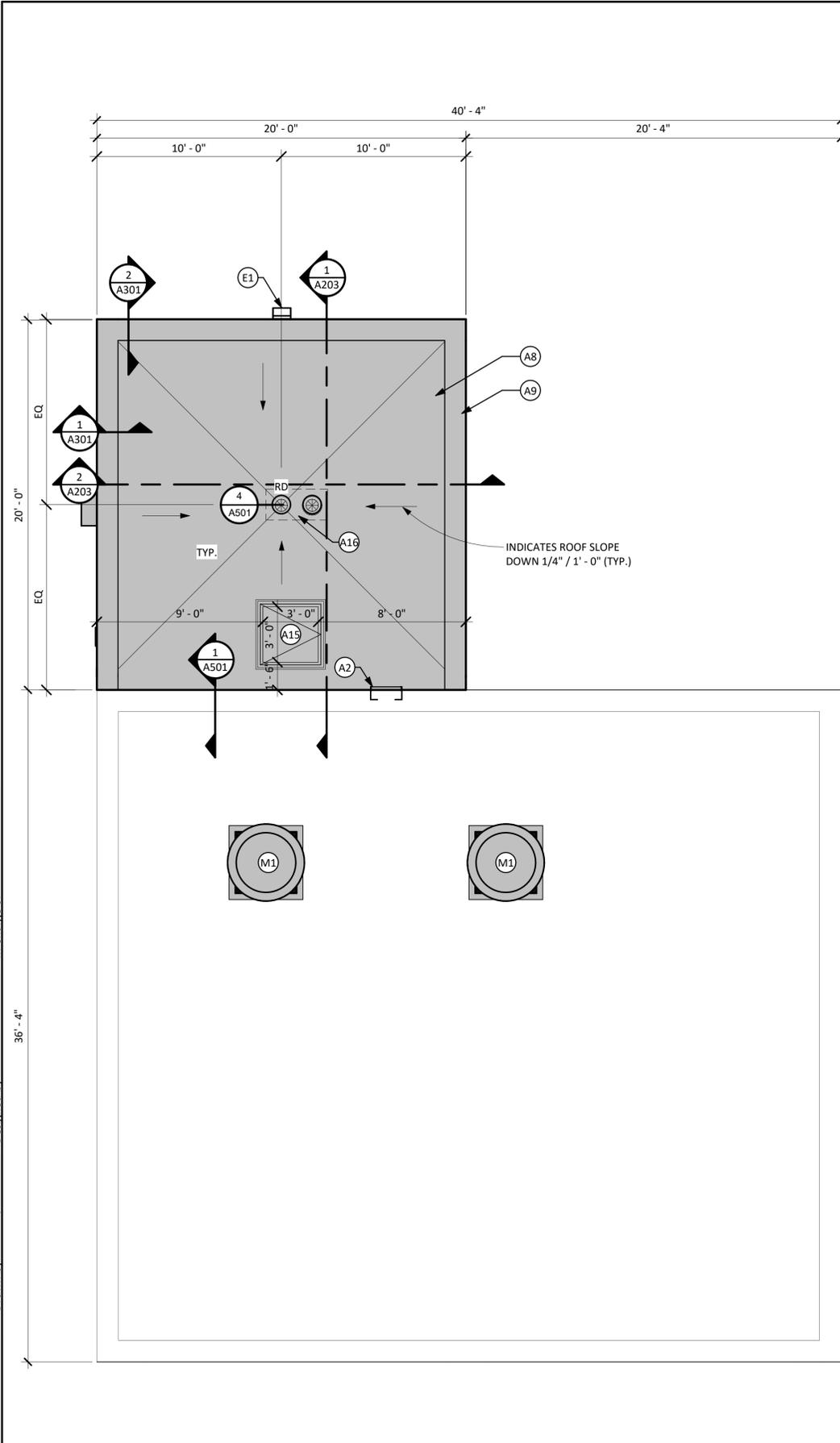
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SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
 RAW WATER PUMP STATION ELECTRICAL UPGRADES
DEMOLITION ELEVATION & NOTES
 TOMPKINS COUNTY, NEW YORK
 TOWN OF LANSING

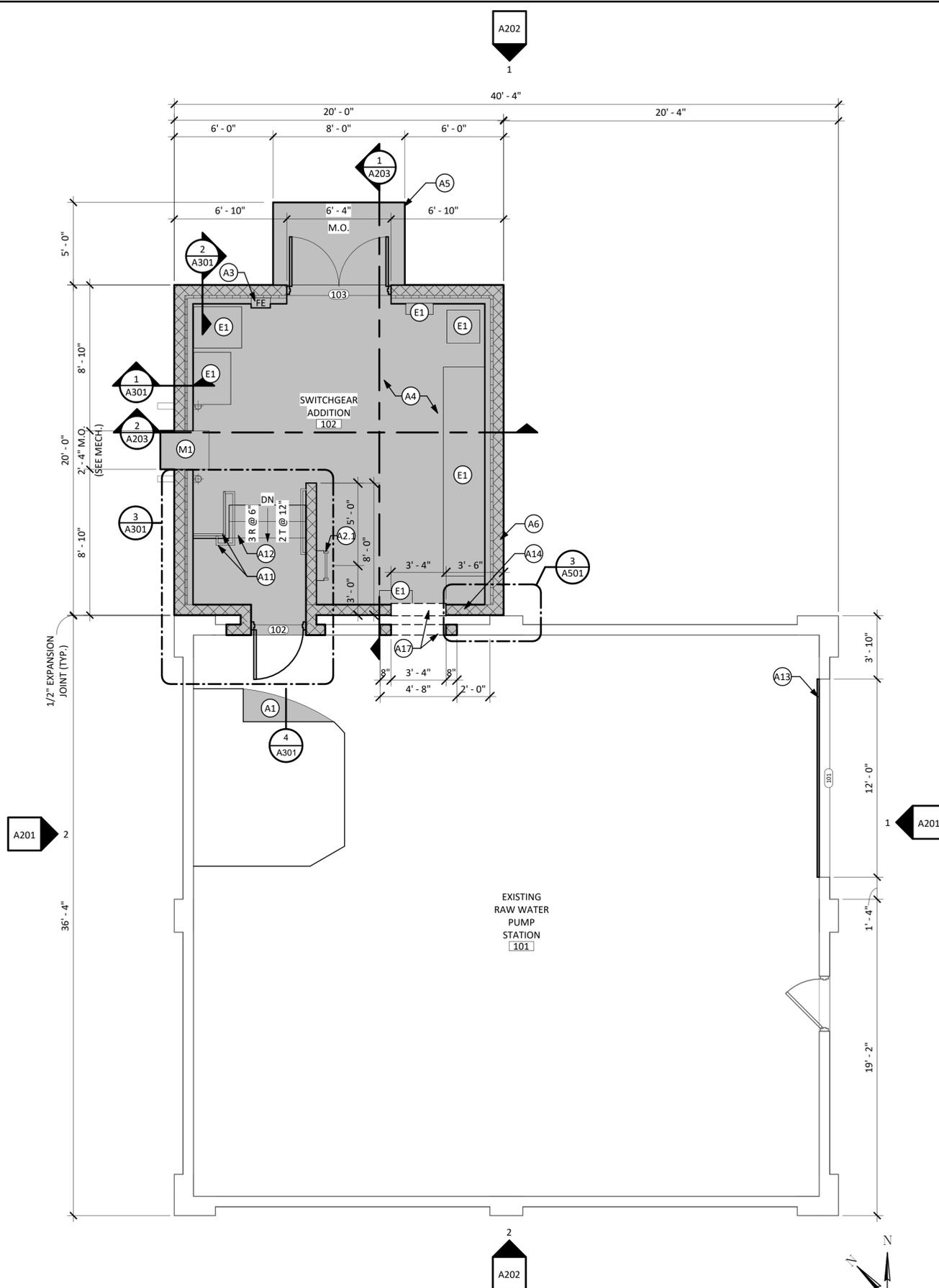
Barton & Loguidice
 443 Electronics Parkway
 Liverpool, NY 13088
 NYS CERTIFICATE #
 0021642, 0020588, 0019903,
 0019905, 0020336



Date: FEBRUARY, 2026
 Scale: AS SHOWN
 Sheet Number: A102
 Project Number: 677.008.001



2 NEW WORK ROOF PLAN
1/4" = 1'-0"



1 NEW WORK FLOOR PLAN
1/4" = 1'-0"

NEW WORK LEGEND

	INDICATES AREA OF WORK
	INDICATES EXISTING WALL
	INDICATES NEW WALL

- ### KEY NOTES
- (A1) PROVIDE TWO-COMPONENT, POLYMER-MODIFIED, CEMENTITIOUS, TROWEL-GRADE MORTAR (TYPE: SIKATOP-122 PLUS, OR APPROVED EQUAL), INSTALL AS RECOMMENDED BY MFR. TO FLOOR AND SIDE OF EXIST. EQUIP. PAD TO A SMOOTH FINISH
 - (A2) ALUMINUM WALL MOUNTED ROOF ACCESS LADDER AS SPECIFIED, SECURE TO EXISTING BUILDING WALL, FIELD VERIFY FINAL LOCATION WITH OWNER. GC TO COORD. WITH LADDER MFR. FOR DIFFERING WALL SURFACE MOUNT DEPTHS
 - (A2.1) ALUMINUM WALL MOUNTED ROOF ACCESS LADDER AS SPECIFIED, SECURE TO NEW CMU INTERIOR WALL
 - (A3) FIRE EXTINGUISHER/SEMI-RECESSED CABINET
 - (A4) CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS (TYP.)
 - (A5) CONCRETE FROST PAD W/ CMU FOUNDATION WALLS/ CONCRETE FOOTINGS, SEE STRUCTURAL DRAWINGS (TYP.)
 - (A6) CMU EXTERIOR WALLS AND FOUNDATION WALLS, SEE WALL SECTIONS AND SCHEDULES FOR INTERIOR/EXTERIOR FINISH, AND STRUCTURAL DRAWINGS FOR MORE INFORMATION (TYP.)
 - (A7) CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS (TYP.)
 - (A8) PRECAST CONCRETE HOLLOW CORE PLAN ROOF SYSTEM W/ FULLY ADHERED EPDM ROOF MEMBRANE OVER FULLY ADHERED TAPERED RIGID ROOF INSULATION SYSTEM
 - (A9) CMU PARAPET WALL AND METAL COPING, SEE DETAILS (TYP.)
 - (A10) NEW EXTERIOR PAINT WALL FINISH, (TYP. ENTIRE EXISTING BUILDING AND NEW BUILDING ADDITION EXTERIOR WALL FINISH):
MANUFACTURER: SHERWIN-WILLIAMS
COLOR: (TO BE SELECTED BY OWNER)
TYPE: "PREPRITE LATEX BLOCK FILLER" & 2-COATS "LOXON XP"
 - (A11) STEEL GUARDRAIL AND HANDRAIL SYSTEM, SEE DETAILS (TYP.)
 - (A12) CONCRETE STAIRS, SEE DETAILS AND STRUCTURAL DRAWINGS (TYP.)
 - (A13) NEW COILING OVERHEAD DOOR AND MOTOR AS SCHEDULED, INSTALL WITHIN EXISTING WALL OPENING (TYP.)
 - (A14) NEW CMU WALL, SEE WALL SECTIONS & SCHEDULES FOR INTERIOR/EXTERIOR FINISHES, AND STRUCTURAL DRAWINGS FOR MORE INFORMATION (TYP.)
 - (A15) NEW STAINLESS STEEL THERMALLY BROKEN ROOF ACCESS HATCH, SINGLE LEAF, 36" X 36" OPENING
 - (A16) NEW 12" DIA. COMBINATION ROOF DRAIN AND SECONDARY OVERFLOW DRAIN, TYPE: "Z164" AS MFR.'D BY "ZURN" (OR APPROVED EQUAL), GENERAL CONTRACTOR TO INSTALL ROOF DRAIN SYSTEM. ALL PIPING TO ROOF DRAINS BY MECHANICAL CONTRACTOR.
 - (A17) WALL OPENING & NEW WALL OPENING IN EXISTING WALL FOR ELECTRICAL CONDUIT, SEE STRUCTURAL DRAWINGS FOR LINTEL FRAMING AND VERTICAL CMU/REINFORCEMENT (TYP.)
 - (M1) NEW MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS, TYP.
 - (E1) NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS, TYP.

- ### GENERAL NOTES
1. CONTRACTOR TO MAKE SITE VISITS AS NECESSARY TO FIELD VERIFY ALL EXISTING CONDITIONS AND COMPONENTS.
 2. PATCH ALL HOLES, GOUGES, SCRATCHES, ETC. IN EXISTING SURFACES (THAT WILL BE PAINTED) AND WHERE DEMOLITION OCCURRED, TO PREPARE FOR FINISHING.
 3. CONTRACTOR IS RESPONSIBLE FOR INFILL/PATCHING & FINISHING OF ALL SURFACES IMPACTED BY MECHANICAL, PLUMBING & ELECTRICAL WORK AND IS RESPONSIBLE FOR COORDINATION BETWEEN THESE TRADES.

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REVISIONS

NO.	DESCRIPTION

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RAW WATER PUMP STATION ELECTRICAL UPGRADES

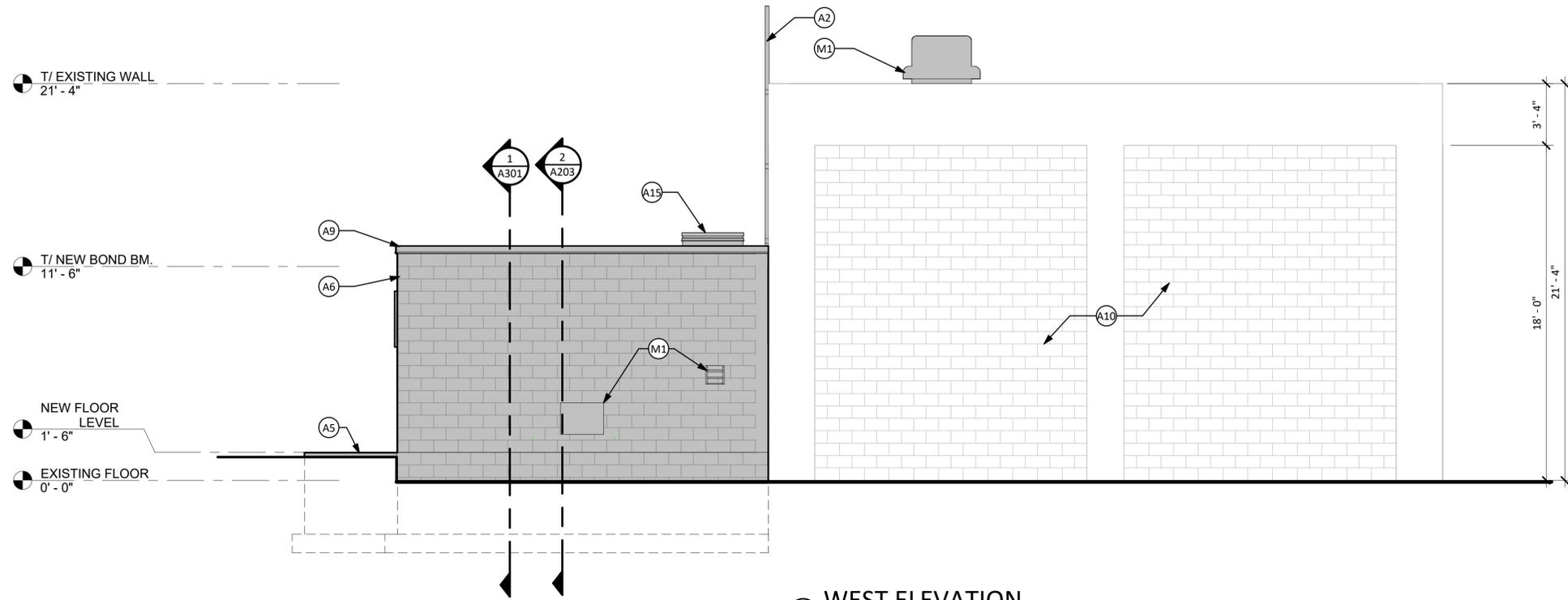
NEW WORK FLOOR & ROOF PLAN

TOWNSHIP OF LANSING
TOMPKINS COUNTY, NEW YORK

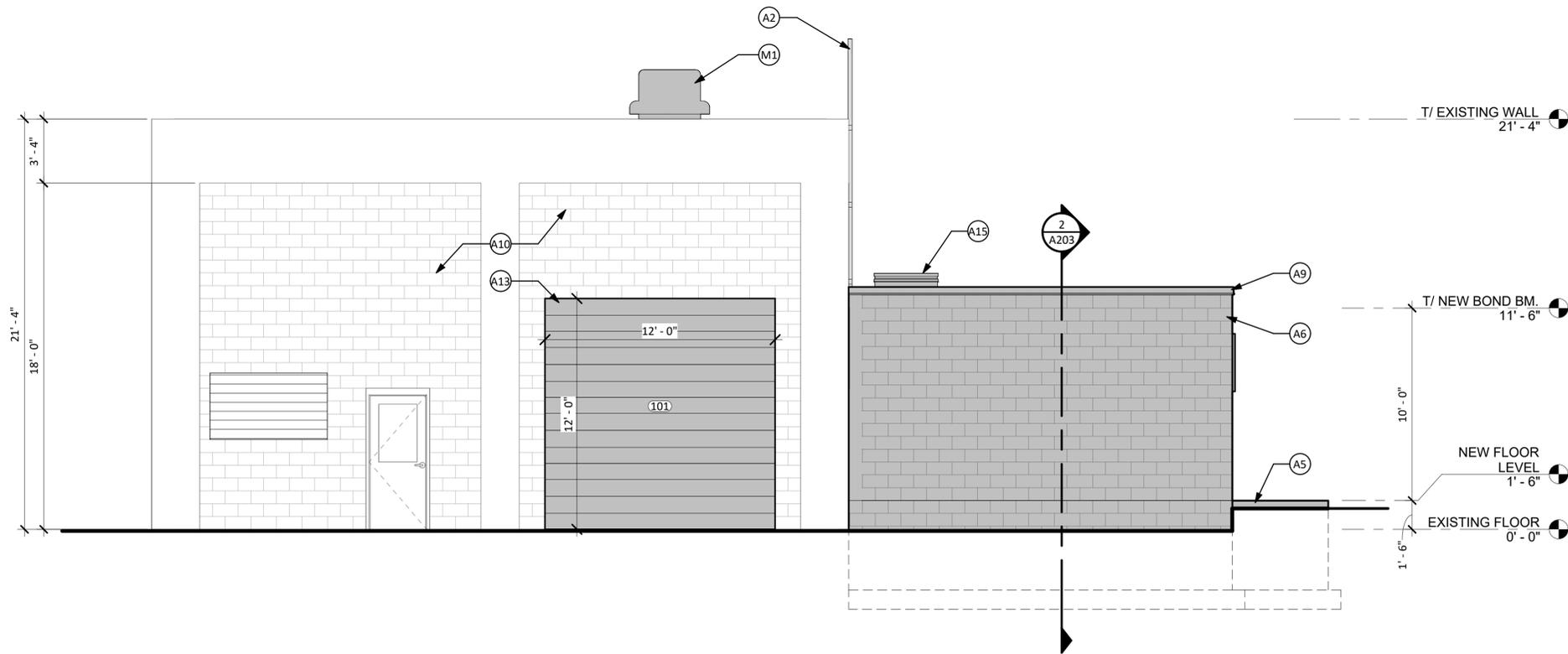
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Sheet Number	A103
Project Number	677.008.001



2 WEST ELEVATION
1/4" = 1'-0"



1 EAST ELEVATION
1/4" = 1'-0"

NEW WORK LEGEND

	INDICATES AREA OF WORK
	INDICATES EXISTING WALL
	INDICATES NEW WALL

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KEY NOTES

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- A2 ALUMINUM WALL MOUNTED ROOF ACCESS LADDER AS SPECIFIED, SECURE TO EXISTING BUILDING WALL, FIELD VERIFY FINAL LOCATION WITH OWNER. GC TO COORD. WITH LADDER MFR. FOR DIFFERING WALL SURFACE MOUNT DEPTHS
- A2.3 ALUMINUM WALL MOUNTED ROOF ACCESS LADDER AS SPECIFIED, SECURE TO NEW CMU INTERIOR WALL
- A3 FIRE EXTINGUISHER/SEMI-RECESSED CABINET
- A4 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS (TYP.)
- A5 CONCRETE FROST PAD W/ CMU FOUNDATION WALLS/ CONCRETE FOOTINGS, SEE STRUCTURAL DRAWINGS (TYP.)
- A6 CMU EXTERIOR WALLS AND FOUNDATION WALLS, SEE WALL SECTIONS AND SCHEDULES FOR INTERIOR/EXTERIOR FINISH, AND STRUCTURAL DRAWINGS FOR MORE INFORMATION (TYP.)
- A7 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS (TYP.)
- A8 PRECAST CONCRETE HOLLOW CORE PLAN ROOF SYSTEM W/ FULLY ADHERED EPDM ROOF MEMBRANE OVER FULLY ADHERED TAPERED RIGID ROOF INSULATION SYSTEM
- A9 CMU PARAPET WALL AND METAL COPING, SEE DETAILS (TYP.)
- A10 NEW EXTERIOR PAINT WALL FINISH, (TYP. ENTIRE EXISTING BUILDING AND NEW BUILDING ADDITION EXTERIOR WALL FINISH):
MANUFACTURER: SHERWIN-WILLIAMS
COLOR: (TO BE SELECTED BY OWNER)
TYPE: "PREPRITE LATEX BLOCK FILLER" & 2-COATS "LOXON XP"
- A11 STEEL GUARDRAIL AND HANDRAIL SYSTEM, SEE DETAILS (TYP.)
- A12 CONCRETE STAIRS, SEE DETAILS AND STRUCTURAL DRAWINGS (TYP.)
- A13 NEW COILING OVERHEAD DOOR AND MOTOR AS SCHEDULED, INSTALL WITHIN EXISTING WALL OPENING (TYP.)
- A14 NEW CMU WALL, SEE WALL SECTIONS & SCHEDULES FOR INTERIOR/EXTERIOR FINISHES, AND STRUCTURAL DRAWINGS FOR MORE INFORMATION (TYP.)
- A15 NEW STAINLESS STEEL THERMALLY BROKEN ROOF ACCESS HATCH, SINGLE LEAF, 36" X 36" OPENING
- A16 NEW 12" DIA. COMBINATION ROOF DRAIN AND SECONDARY OVERFLOW DRAIN, TYPE: "2164" AS MFR.'D BY "ZURN" (OR APPROVED EQUAL), GENERAL CONTRACTOR TO INSTALL ROOF DRAIN SYSTEM. ALL PIPING TO ROOF DRAINS BY MECHANICAL CONTRACTOR.
- A17 WALL OPENING & NEW WALL OPENING IN EXISTING WALL FOR ELECTRICAL CONDUIT, SEE STRUCTURAL DRAWINGS FOR LINTEL FRAMING AND VERTICAL CMU/REINFORCEMENT (TYP.)
- M1 NEW MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS, TYP.
- E1 NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS, TYP.

GENERAL NOTES

1. CONTRACTOR TO MAKE SITE VISITS AS NECESSARY TO FIELD VERIFY ALL EXISTING CONDITIONS AND COMPONENTS.
2. PATCH ALL HOLES, GOUGES, SCRATCHES, ETC. IN EXISTING SURFACES (THAT WILL BE PAINTED) AND WHERE DEMOLITION OCCURRED, TO PREPARE FOR FINISHING.
3. CONTRACTOR IS RESPONSIBLE FOR INFILL/PATCHING & FINISHING OF ALL SURFACES IMPACTED BY MECHANICAL, PLUMBING & ELECTRICAL WORK AND IS RESPONSIBLE FOR COORDINATION BETWEEN THESE TRADES.

REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

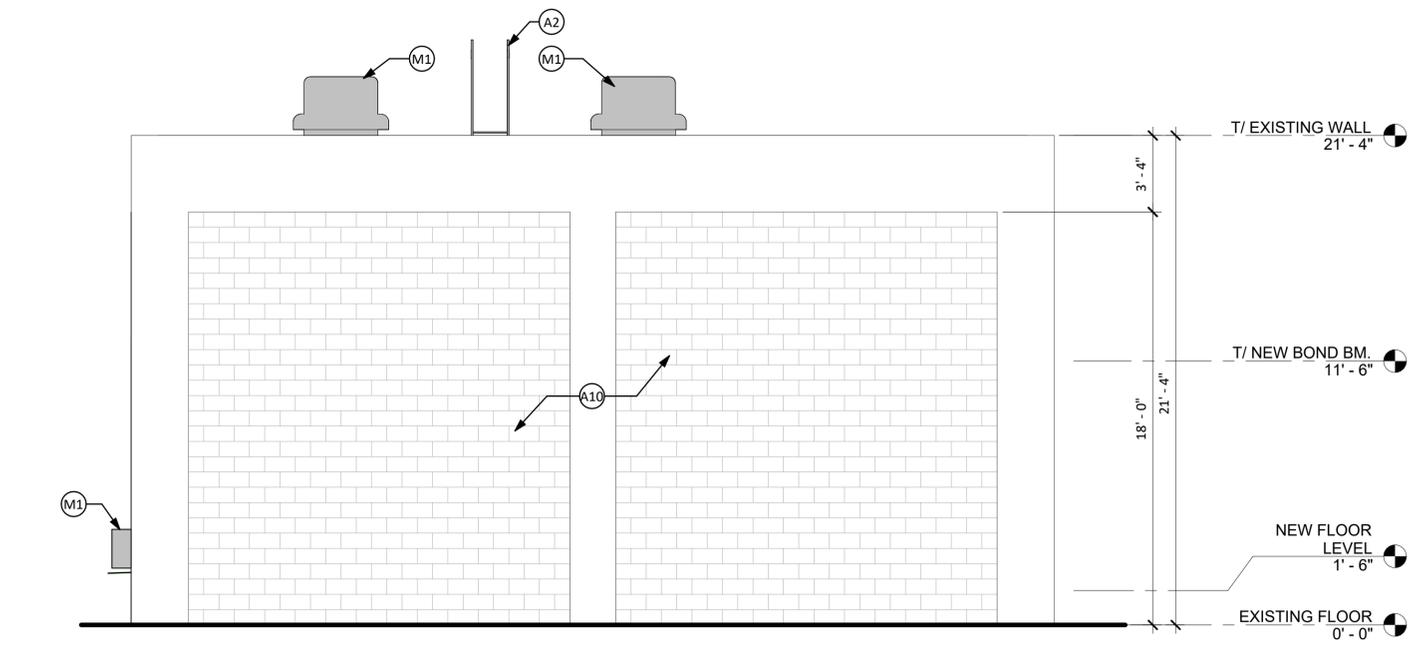
NEW WORK ELEVATIONS

TOWNSHIP OF LANSING
TOWNSHIP OF LANSING

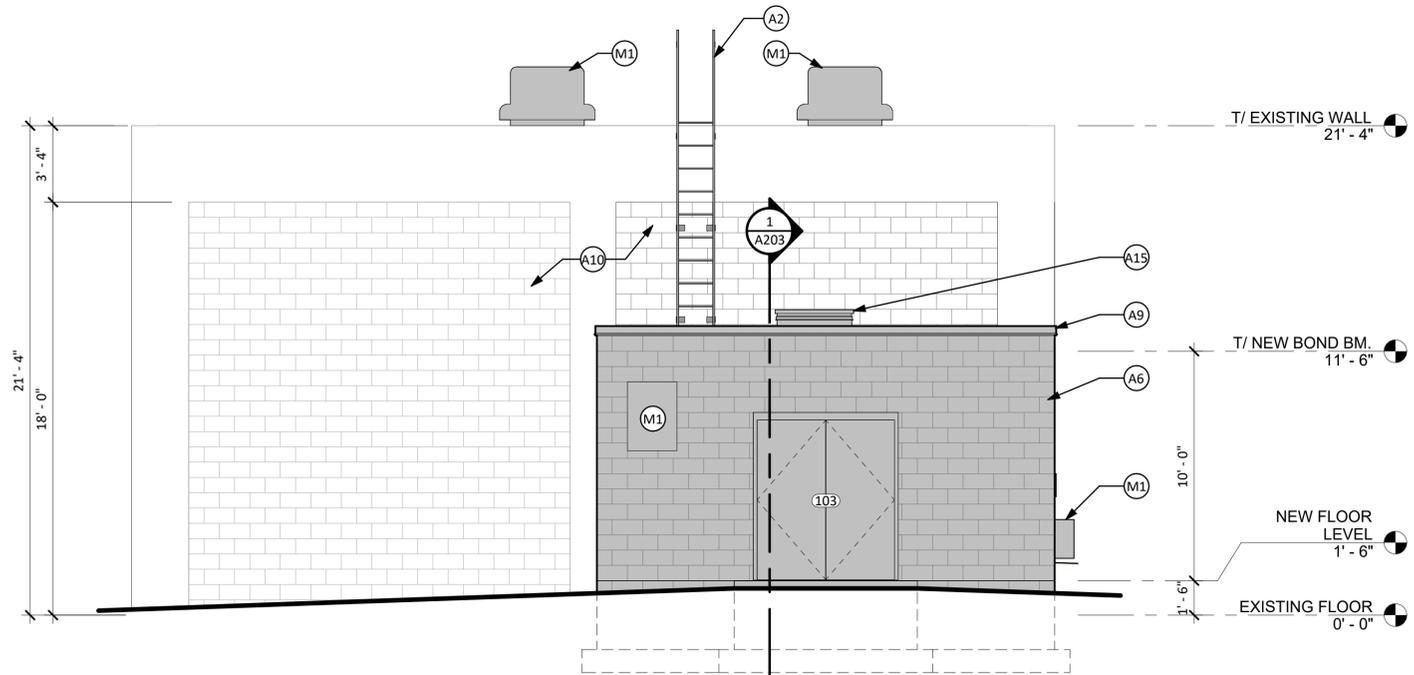
Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

NY'S CERTIFICATE #
0021642, 0020588, 0019903,
0019905, 0020336

Date	FEBRUARY, 2026
Scale	AS SHOWN
Sheet Number	A201
Project Number	677.008.001



2 SOUTH ELEVATION
1/4" = 1'-0"



1 NORTH ELEVATION
1/4" = 1'-0"

NEW WORK LEGEND

	INDICATES AREA OF WORK
	INDICATES EXISTING WALL
	INDICATES NEW WALL

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KEY NOTES

- (A1) PROVIDE TWO-COMPONENT, POLYMER-MODIFIED, CEMENTITIOUS, TROWEL-GRADE MORTAR (TYPE: SIKATOP-122 PLUS, OR APPROVED EQUAL), INSTALL AS RECOMMENDED BY MFR. TO FLOOR AND SIDE OF EXIST. EQUIP. PAD TO A SMOOTH FINISH
- (A2) ALUMINUM WALL MOUNTED ROOF ACCESS LADDER AS SPECIFIED, SECURE TO EXISTING BUILDING WALL, FIELD VERIFY FINAL LOCATION WITH OWNER. GC TO COORD. WITH LADDER MFR. FOR DIFFERING WALL SURFACE MOUNT DEPTHS
- (A2.1) ALUMINUM WALL MOUNTED ROOF ACCESS LADDER AS SPECIFIED, SECURE TO NEW CMU INTERIOR WALL
- (A3) FIRE EXTINGUISHER/SEMI-RECESSED CABINET
- (A4) CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS (TYP.)
- (A5) CONCRETE FROST PAD W/ CMU FOUNDATION WALLS/ CONCRETE FOOTINGS, SEE STRUCTURAL DRAWINGS (TYP.)
- (A6) CMU EXTERIOR WALLS AND FOUNDATION WALLS, SEE WALL SECTIONS AND SCHEDULES FOR INTERIOR/EXTERIOR FINISH, AND STRUCTURAL DRAWINGS FOR MORE INFORMATION (TYP.)
- (A7) CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS (TYP.)
- (A8) PRECAST CONCRETE HOLLOW CORE PLAN ROOF SYSTEM W/ FULLY ADHERED EPDM ROOF MEMBRANE OVER FULLY ADHERED TAPERED RIGID ROOF INSULATION SYSTEM
- (A9) CMU PARAPET WALL AND METAL COPING, SEE DETAILS (TYP.)
- (A10) NEW EXTERIOR PAINT WALL FINISH, (TYP. ENTIRE EXISTING BUILDING AND NEW BUILDING ADDITION EXTERIOR WALL FINISH):
MANUFACTURER: SHERWIN-WILLIAMS
COLOR: (TO BE SELECTED BY OWNER)
TYPE: "PREPRITE LATEX BLOCK FILLER" & 2 - COATS "LOXON XP"
- (A11) STEEL GUARDRAIL AND HANDRAIL SYSTEM, SEE DETAILS (TYP.)
- (A12) CONCRETE STAIRS, SEE DETAILS AND STRUCTURAL DRAWINGS (TYP.)
- (A13) NEW COILING OVERHEAD DOOR AND MOTOR AS SCHEDULED, INSTALL WITHIN EXISTING WALL OPENING (TYP.)
- (A14) NEW CMU WALL, SEE WALL SECTIONS & SCHEDULES FOR INTERIOR/EXTERIOR FINISHES, AND STRUCTURAL DRAWINGS FOR MORE INFORMATION (TYP.)
- (A15) NEW STAINLESS STEEL THERMALLY BROKEN ROOF ACCESS HATCH, SINGLE LEAF, 36" X 36" OPENING
- (A16) NEW 12" DIA. COMBINATION ROOF DRAIN AND SECONDARY OVERFLOW DRAIN, TYPE: "Z164" AS MFR.'D BY "ZURN" (OR APPROVED EQUAL), GENERAL CONTRACTOR TO INSTALL ROOF DRAIN SYSTEM. ALL PIPING TO ROOF DRAINS BY MECHANICAL CONTRACTOR.
- (A17) WALL OPENING & NEW WALL OPENING IN EXISTING WALL FOR ELECTRICAL CONDUIT, SEE STRUCTURAL DRAWINGS FOR LINTEL FRAMING AND VERTICAL CMU/REINFORCEMENT (TYP.)
- (M1) NEW MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS, TYP.
- (E1) NEW ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS, TYP.

GENERAL NOTES

- CONTRACTOR TO MAKE SITE VISITS AS NECESSARY TO FIELD VERIFY ALL EXISTING CONDITIONS AND COMPONENTS.
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REVISIONS

NO.	DESCRIPTION

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

NEW WORK ELEVATIONS

TOMPKINS COUNTY, NEW YORK

TOWN OF LANSING

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

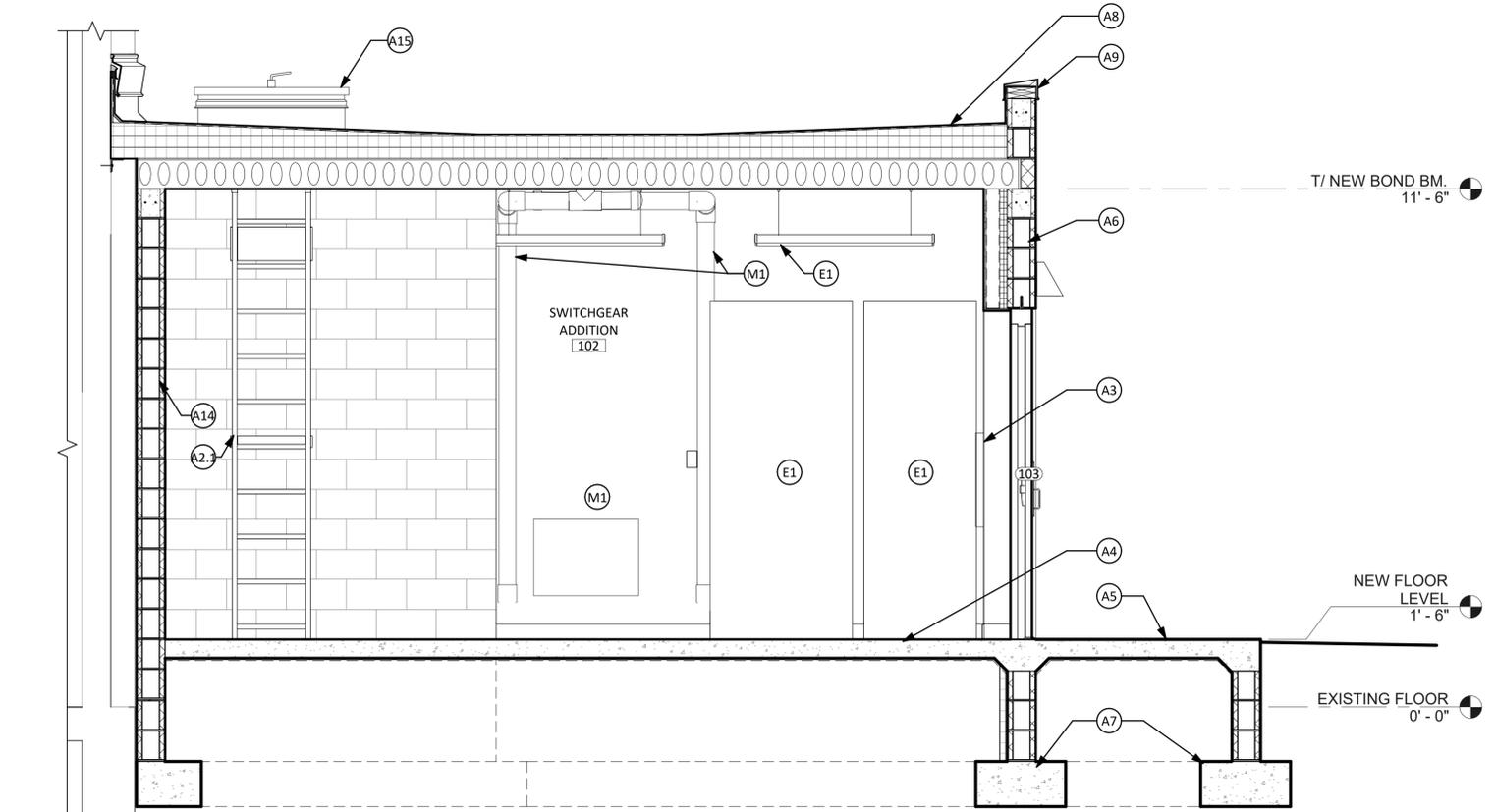
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NYS CERTIFICATE #
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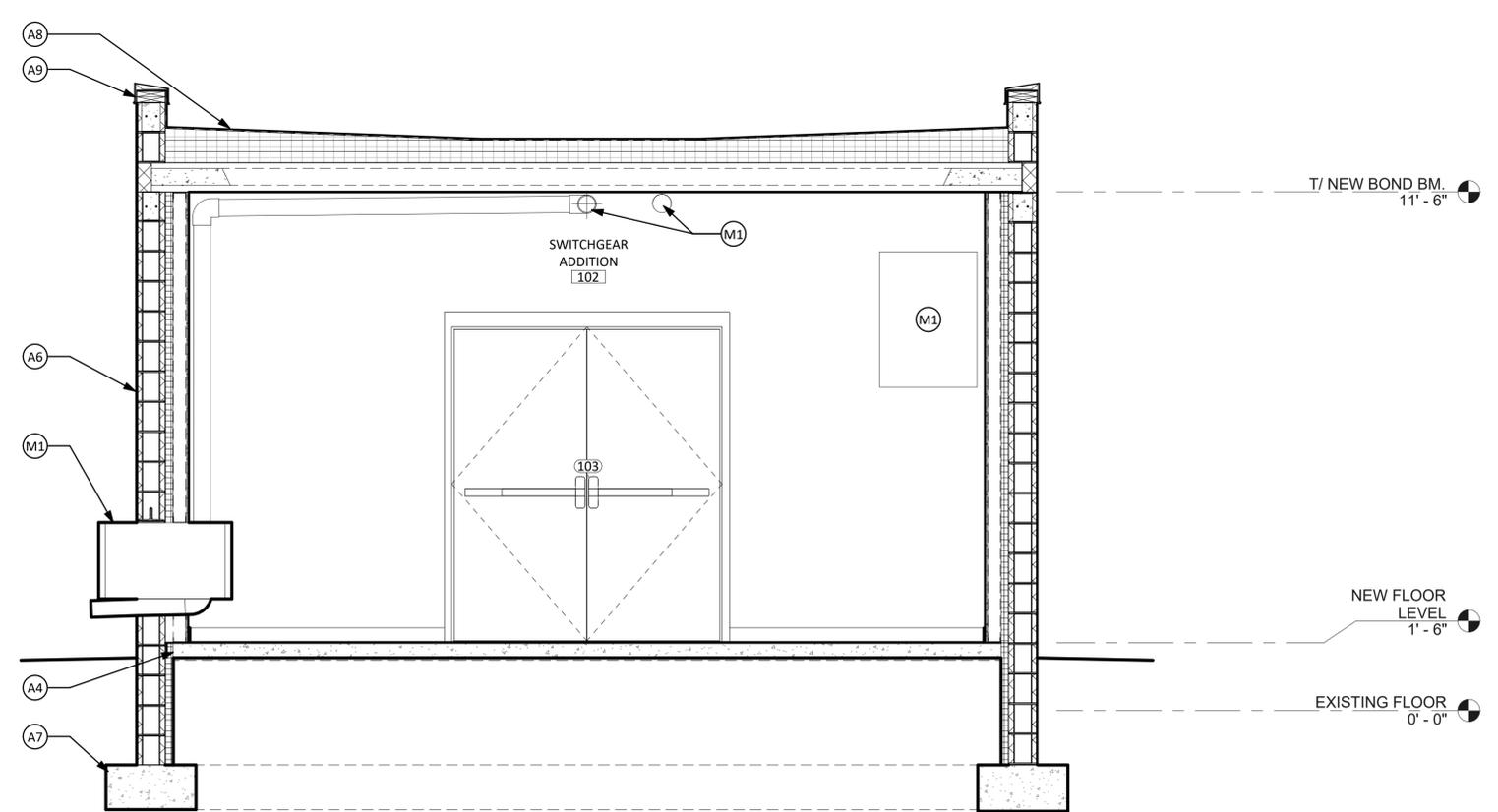
REGISTERED ARCHITECT
TIMOTHY R. BIRNEY
NO. 021103
STATE OF NEW YORK

Timothy R. Birney
NYS EXP.: 04/30/2026

Date	FEBRUARY, 2026
Scale	AS SHOWN
Sheet Number	A202
Project Number	677.008.001



1 BUILDING SECTION 1
1/2" = 1'-0"



2 BUILDING SECTION 2
1/2" = 1'-0"

NEW WORK LEGEND	
	INDICATES AREA OF WORK
	INDICATES EXISTING WALL
	INDICATES NEW WALL

KEY NOTES	
A1	PROVIDE TWO-COMPONENT, POLYMER-MODIFIED, CEMENTITIOUS, TROWEL-GRADE MORTAR (TYPE: SIKATOP-122 PLUS, OR APPROVED EQUAL), INSTALL AS RECOMMENDED BY MFR. TO FLOOR AND SIDE OF EXIST. EQUIP. PAD TO A SMOOTH FINISH
A2	ALUMINUM WALL MOUNTED ROOF ACCESS LADDER AS SPECIFIED, SECURE TO EXISTING BUILDING WALL, FIELD VERIFY FINAL LOCATION WITH OWNER. GC TO COORD. WITH LADDER MFR. FOR DIFFERING WALL SURFACE MOUNT DEPTHS
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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION RAW WATER PUMP STATION ELECTRICAL UPGRADES	
NEW WORK BUILDING SECTIONS	
TOWN OF LANSING	
TOMPKINS COUNTY, NEW YORK	
Barton & Loguidice 443 Electronics Parkway Liverpool, NY 13088 NYS CERTIFICATE # 0021642, 0020588, 0019903, 0019905, 0020336	
 Timothy R. Bieren NYS EXP.: 04/30/2026	

GENERAL NOTES	
1.	CONTRACTOR TO MAKE SITE VISITS AS NECESSARY TO FIELD VERIFY ALL EXISTING CONDITIONS AND COMPONENTS.
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Date	FEBRUARY, 2026
Scale	AS SHOWN
Sheet Number	A203
Project Number	677.008.001

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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

TOWNSHIP OF LANSING
TOWNSHIP OF LANSING, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

NYS CERTIFICATE #
0021642, 0020588, 0019903,
0019905, 0020336



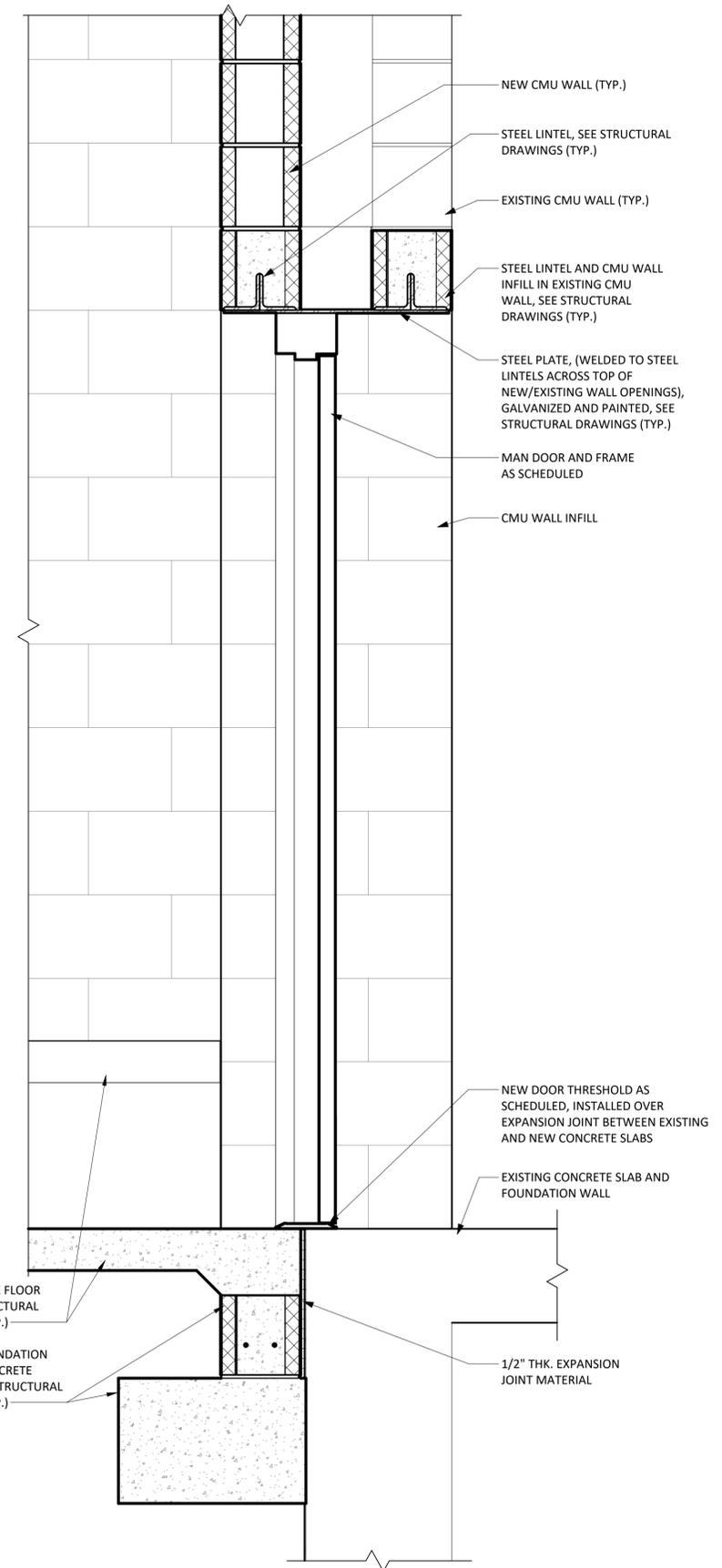
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FEBRUARY, 2026

Scale
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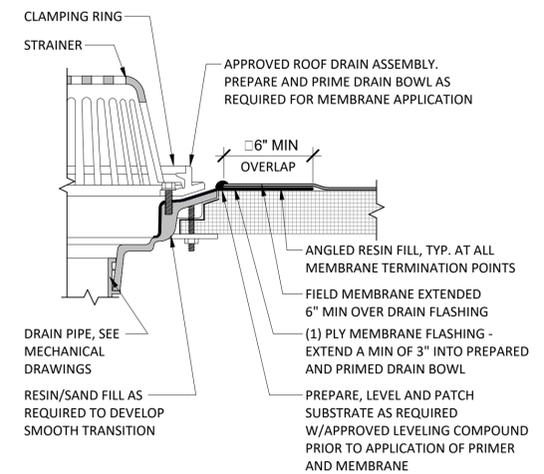
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A501

Project Number
677.008.001

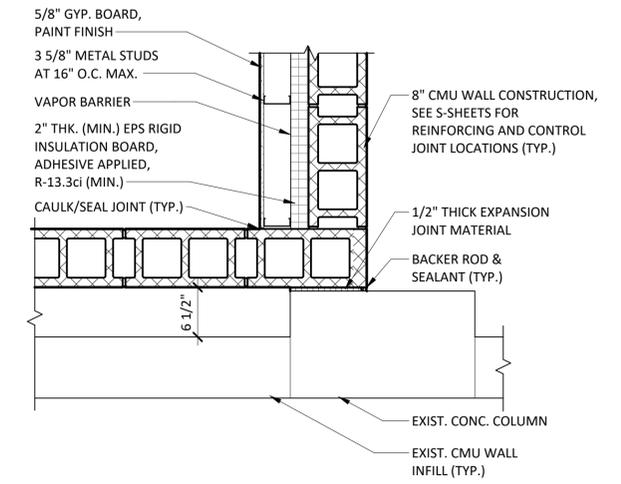
SECTIONS AND DETAILS



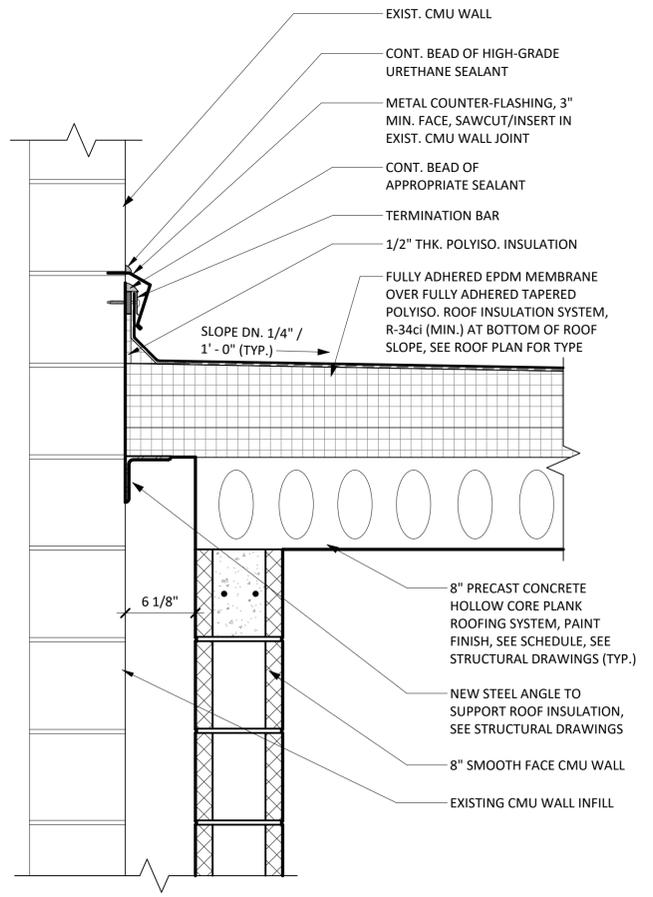
5 WALL INFILL SECTION
1 1/2" = 1'-0"



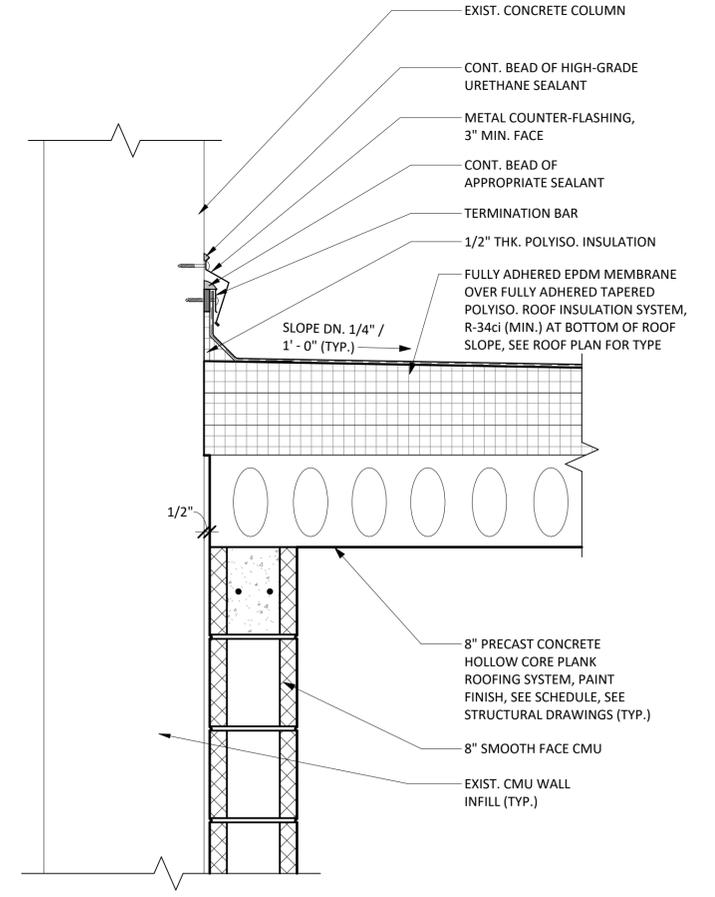
4 TYP. ROOF PIPING DETAIL
1" = 1'-0"



3 PLAN DETAIL - NEW BUILDING CORNER
1" = 1'-0"



2 ROOF/WALL SECTION 2
1 1/2" = 1'-0"



1 ROOF/WALL SECTION 1
1 1/2" = 1'-0"

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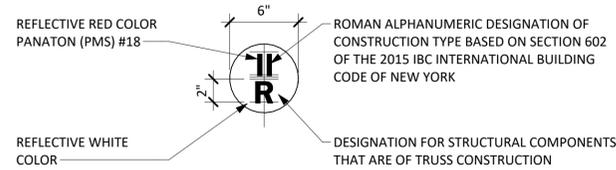
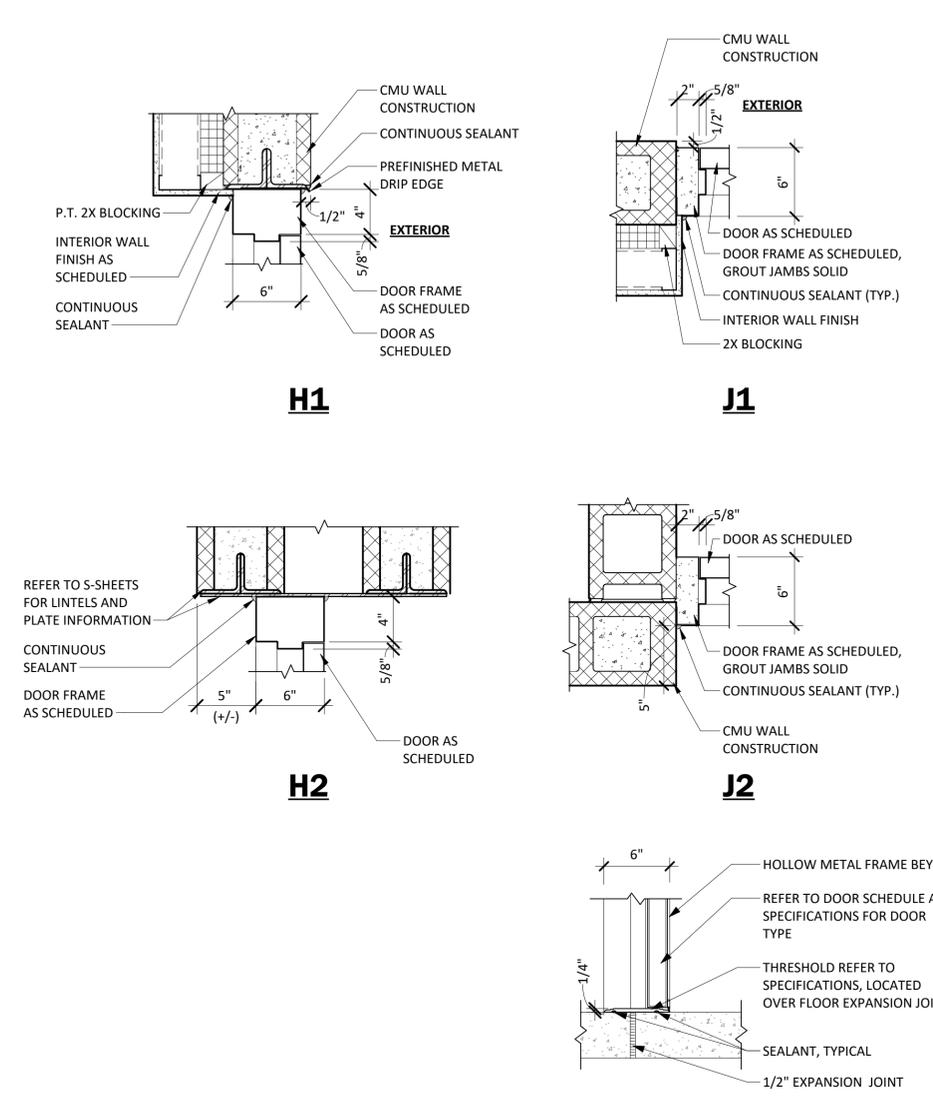
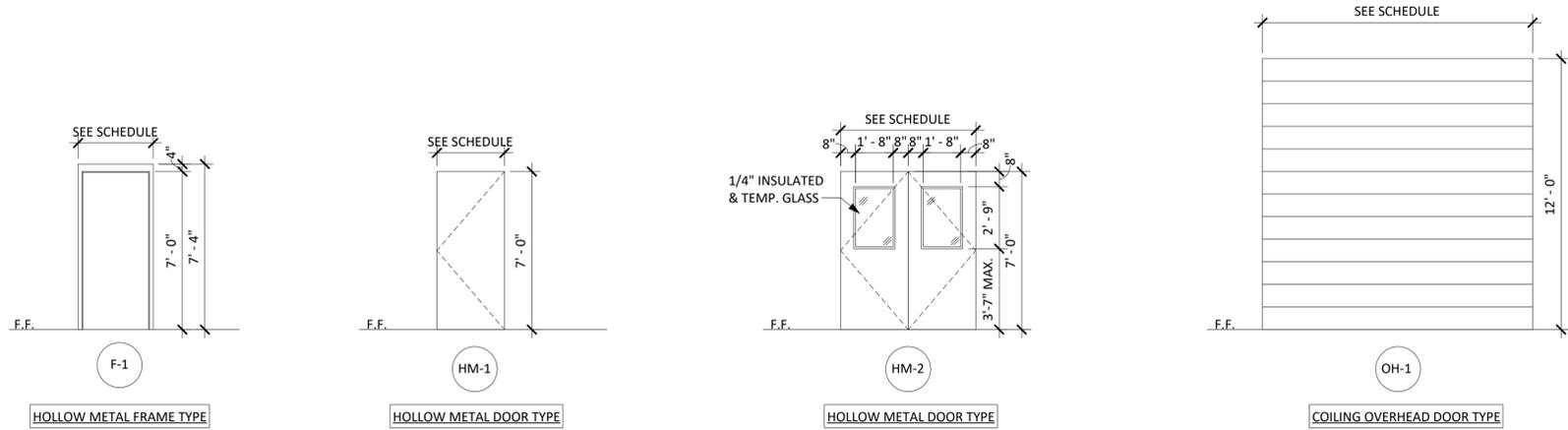
Checked by: *Cksckkr*
Drawn by: *JAW*
Designed by: *TJM*
In Charge of: *TRB*

DOOR SCHEDULE

DOOR NUMBER	SPACE DESCRIPTION	SIZE		DOOR INFORMATION				FRAME INFORMATION						REMARKS	DOOR NUMBER
		WIDTH	HEIGHT	DOOR ELEVATION TYPE	GLASS	HARDWARE	DOOR FINISH	FRAME ELEVATION TYPE	DOOR FRAME DEPTH	DETAILS			FRAME FINISH		
										JAMB	HEAD	THRESHOLD			
101	EXISTING RAW WATER PUMP STATION	12' - 0"	12' - 0"	OH-1	---	---	PF	---	---	J3	H3	---	-	COILING OVERHEAD DOOR, ELECTRIC OPERATOR	101
102	EXISTING RAW WATER PUMP STATION	3' - 0"	7' - 0"	HM-1	---	---	HW-1	PT	F-1	J2	H2	T1	PT		102
103	SWITCHGEAR ADDITION	6' - 0"	7' - 0"	HM-2	1/4" INSULATED TEMP.	HW-2	PT	F-1	6"	J1	H1	T1	PT		103

TYPICAL DOOR AND FRAME TYPES

TYPICAL DOOR HEAD, JAMB AND THRESHOLD DETAILS



SIGN LOCATION:
EXTERIOR BUILDING ENTRANCE DOORS, EXTERIOR EXIT DISCHARGE DOORS, AND EXTERIOR ROOF ACCESS DOORS TO A STAIRWAY.

SIGN PLACEMENT:
ATTACHED TO THE DOOR, OR ATTACHED TO A SIDELIGHT OR THE FACE OF THE BUILDING, NOT MORE THAN 12 INCHES HORIZONTALLY FROM THE LATCH SIDE OF THE DOOR JAMB, AND NOT LESS THAN 42 INCHES (1067 MM) NO MORE THAN 60 INCHES ABOVE THE ADJOINING WALKING SURFACE.

1 TRUSS FIRE SIGN DETAIL
1 1/2" = 1'-0"

ROOM FINISH SPEC

FINISH ABBREVIATIONS

WALL FINISHES (INTERIOR)		INDICATES FLOOR/WALL FINISH	
PAINT COLOR		"CONC" DENOTES CONCRETE	
PC-1 MANUFACTURER: SHERWIN-WILLIAMS COLOR: (TO BE SELECTED BY OWNER) TYPE: AS RECOMMENDED BY MFR.		"CS" DENOTES CONCRETE SEALER	
DOOR FINISHES		INDICATES WALL/TRIM FINISH	
PC-3 MANUFACTURER: SHERWIN-WILLIAMS COLOR: (TO BE SELECTED BY OWNER) TYPE: AS RECOMMENDED BY MFR.		"PT" DENOTES PAINT	
CEILING FINISHES		"PC" DENOTES PAINT COLOR	
PC-2 MANUFACTURER: SHERWIN-WILLIAMS COLOR: (TO BE SELECTED BY OWNER) TYPE: AS RECOMMENDED BY MFR.		"CMU" DENOTES CONCRETE MASONRY UNIT	
FLOOR FINISHES			
CS CONCRETE FLOOR SLAB SEALER			
MANUFACTURER: SIKKA COLOR: COLORLESS FINISH: SIKAGARD-705L (INSTALL ON ALL FLOOR SLAB, CONCRETE STAIRS, AND EXPOSED CONCRETE WALLS, TYP.)			

ROOM FINISH SCHEDULE

ROOM NUMBER	SPACE DESCRIPTION	FLOOR		BASE		WALLS												CEILING			TRIM			DOORS		REMARKS	ROOM NUMBER
		MATERIAL	FINISH	MATERIAL	TYPE	NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH		
						MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR										
102	SWITCHGEAR ADDITION	CONC.	CS	RUBBER	4"	CMU	PT	PC-1	CMU	PT	PC-1	CMU	PT	PC-1	CMU	PT	PC-1	CONC.	PT	PC-2	N/A	N/A	N/A	PT	PC-3		102

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPALITY WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

DOOR SCHEDULE, INFORMATION & DETAILS

TOWNSHIP OF LANSING
TOWNSHIP OF LANSING, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

NYS CERTIFICATE #
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REGISTERED ARCHITECT
TIMOTHY R. BIERER
NO. 021103
STATE OF NEW YORK

Timothy R. Bierer
NYS EXP. 04/30/2026

Date	FEBRUARY, 2026
Scale	AS SHOWN
Sheet Number	A601
Project Number	677.008.001

STRUCTURAL DESIGN CRITERIA:

GOVERNING CODES:

ALL STRUCTURES ARE DESIGNED IN ACCORDANCE WITH: 2025 BUILDING CODE OF NEW YORK STATE (BCNYS)

DESIGN LOADS:

RISK CATEGORY: IV

FLOOR LIVE LOADS: ALL ROOMS 150 PSF

ROOF LIVE LOADS: MINIMUM ROOF LIVE LOAD 20 PSF

ROOF SNOW LOAD DATA: GROUND SNOW LOAD, SNOW EXPOSURE FACTOR, THERMAL FACTOR, FLAT ROOF SNOW LOAD: SLOPE FACTOR, SLOPED ROOF SNOW LOAD: P_g = 89 PSF, C_e = 1.00, C_t = 1.13, P_f = 61.2 PSF, C_s = 1.0, p_s = 61.2 PSF

WIND DESIGN DATA: BASIC DESIGN WIND SPEED, WIND EXPOSURE CATEGORY: V = 122 MPH, C

DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING: NOTES: 1) NEGATIVE VALUES INDICATE LOADS AWAY FROM SURFACE 2) VALUES ARE BASED ON 10 SF SEE ASC 7-16 CH 31 FOR AREAS LARGER THAN 10 SF

Table with 2 columns: COMPONENTS & CLADDING (10 SF) and LOADS. Rows include ROOF (ZONE 1-3) and WALL (ZONE 4-5) with values like 16 PSF / -52.5 PSF, 30.2 PSF / -32.7 PSF.

EARTHQUAKE DESIGN DATA: MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_s: 0.140, S_1: 0.042

SITE CLASS: DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_DS: 0.099, S_D1: 0.036

SEISMIC DESIGN CATEGORY, BASIC SEISMIC FORCE-RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS

GEOTECHNICAL DATA: ALLOWABLE SOIL BEARING = 2,000 PSF FROST PROTECTION = 48 INCHES

GENERAL STRUCTURAL NOTES:

- 1. STRUCTURAL DRAWINGS SHALL BE FOLLOWED WITH COORDINATION WITH OTHER DRAWINGS. ANY APPARENT DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR CLARIFICATION PRIOR TO PROCEEDING ON SAID WORK.
2. NO CHANGES OF THE STRUCTURAL SYSTEM AS INDICATED ON THESE DRAWINGS SHALL BE PERFORMED PRIOR TO RECEIVING WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
3. THESE DRAWINGS DO NOT IDENTIFY COMPONENTS REQUIRED FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND PROVIDE COMPONENTS REQUIRED FOR CONSTRUCTION SAFETY.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSION AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY BRACING AND MAINTAINING THE STABILITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION. STRUCTURE SHALL BE ASSUMED UNSTABLE UNTIL COMPONENTS AND ALL CONNECTIONS ARE INSTALLED.
6. SECTIONS AND DETAILS ON THESE DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR SIMILAR CONSTRUCTION NOT FULLY DETAILED.
7. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT THE EXISTING FACILITY AND ACCESSORIES. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER. PROVIDED REFERENCE DATUM ARE NOT RELATED TO ACTUAL SURVEY ELEVATIONS.
8.

EARTHWORK AND FOUNDATIONS NOTES:

- 1. FOUNDATION DESIGNS ARE BASED ON GEOTECHNICAL EVALUATION REPORT PROVIDED BY CME ASSOCIATES, INC. IN REPORT NO. 27941B-01-0722 DATED JULY 21, 2022.
2. ALL FOUNDATIONS SHALL BE CONSTRUCTED ON APPROVED STRUCTURAL FILL, WASHED STONE, OR INDIGENOUS SILT MATERIAL.
3. CONTRACTOR SHALL ALLOW OWNER'S REPRESENTATIVE TO VERIFY ACCEPTABLE SUBGRADE CONDITIONS PRIOR TO PLACEMENT OF STRUCTURAL FILL AND/OR CONSTRUCTION OF FOUNDATIONS AND SLABS-ON-GRADE.
4. EXPOSED SUBGRADE IN OPEN EXCAVATIONS SHALL BE PROTECTED FROM RAIN AND/OR GROUNDWATER THAT COULD COMPROMISE THEIR CONDITION. CONTRACTOR SHALL PROVIDE COVER AND/OR CASTING OF 3-INCH CLSM MUDMAT AS NEEDED.
5. FOUNDATIONS SHALL NOT BE CAST ON FROZEN SUBGRADE OR FROZEN STRUCTURAL FILL MATERIAL. DO NOT PLACE STRUCTURAL FILL ON FROZEN SUBGRADE.
6. ALL EXCAVATIONS SHALL BE DEWATERED AS NECESSARY TO MAINTAIN GROUNDWATER AT LEAST 24" BELOW FOOTING BEFORE PLACING OF CONCRETE.
7. ALL EXCAVATIONS INTO UNDISTURBED SOILS SHALL BE PROOF ROLLED USING A VIBRATORY SMOOTH DRUM ROLLER WEIGHING AT LEAST 10 TONS. (4) PASSES OF ROLLER TO COMPACT & DENSIFY WITH ADDITIONAL (2) PASSES FOR PROOF ROLLING EVALUATION.
8. REFER TO THE PROJECT SUBSURFACE INVESTIGATION AND GEOTECHNICAL EVALUATION FOR ADDITIONAL SPECIFIC REQUIREMENTS.

CONCRETE NOTES:

- 1. ALL CONCRETE SHALL BE BATCHED, TRANSPORTED, CONVEYED, PLACED, CURED, AND TESTED IN ACCORDANCE WITH ACI 318.
2. ALL EXTERIOR CONCRETE EXPOSED TO DEICING CHEMICALS (INCLUDING APRONS, SIDEWALKS, CURBS, ETC.) SHALL BE AIR ENTRAINED AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
3. ALL REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60 DEFORMED BARS.
4. WELDED WIRE REINFORCEMENT (WWR) SHALL BE SUPPLIED IN SHEETS CONFORMING TO ASTM A1064. LAP SPLICE WWR SHEETS MINIMUM 6 INCHES.
5. CLEAR CONCRETE COVER OVER REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND AS FOLLOWS:
- CONCRETE EXPOSED TO EARTH, WEATHER, OR WATER: 2"
- CONCRETE CAST DIRECTLY AGAINST EARTH: 3"
7. CONCRETE FINISHES AND CURING:
a. ALL EXPOSED FACES OF CONCRETE SHALL BE RUBBED FINISH (UNLESS NOTED OTHERWISE).
b. EXTERIOR WALKING SURFACES (INCLUDING SLABS AND SIDEWALKS) SHALL BE LIGHTLY TROWELED AND RECEIVE A BROOM FINISH (APPLIED PERPENDICULAR TO THE LINE OF TRAVEL).
c. ALL STRUCTURAL CONCRETE SHALL ATTAIN THE SPECIFIED CONCRETE STRENGTH PRIOR TO LOADING.
d. INTERIOR AND EXTERIOR SLABS, SIDEWALKS, AND OTHER WALKING SURFACES SHALL BE COATED WITH A PENETRATING SEALER. SUBMIT SEALER FOR APPROVAL PRIOR TO USE.
8. APPLY BONDING AGENT PRIOR TO CASTING CONCRETE AGAINST HARDENED CONCRETE, UNLESS INDICATED OTHERWISE.
9. ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE FORMED WITH A 3/4" BY 3/4" CHAMFER, INCLUDING TOP EDGES AND OUTSIDE VERTICAL CORNERS OF WALLS, SLABS, BEAMS, COLUMNS, ETC. (STAIR TREADS NOT INCLUDED).
10. ALL EXTERIOR SLABS AND FLATWORK SHALL HAVE 1/4" PER FOOT (1/8" PER FOOT MINIMUM) SURFACE SLOPE IN ORDER TO PROVIDE POSITIVE DRAINAGE.
11. CONTRACTOR SHALL PROVIDE CONSTRUCTION JOINTS AND CONTROL JOINTS AS INDICATED ON THESE DRAWINGS. CONTRACTOR MAY PROPOSE ADDITIONAL CONSTRUCTION JOINTS NEEDED TO FACILITATE CONSTRUCTION. ALL ADDITIONAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTING.
12. VERTICAL JOINTS IN FOUNDATION WALLS FROST WALLS SHALL LINE UP WITH MASONRY BLOCK (CMU) CONTROL JOINTS.
13. APPLY BONDING AGENT PRIOR TO CASTING CONCRETE AGAINST HARDENED CONCRETE, EXCEPT ALONG VERTICAL JOINTS.
14. CONTRACTOR SHALL COORDINATE ALL WALL AND SLAB PENETRATIONS AND OPENINGS WITH OTHER TRADES. NOTE THAT NOT ALL PENETRATIONS AND OPENINGS ARE INDICATED ON THESE STRUCTURAL DRAWINGS.
15. CONTRACTOR SHALL COORDINATE THE CASTING-IN OF ALL EMBEDDED ITEMS AND ACCESSORIES OF ALL TRADES. POST-INSTALLATION OF EMBEDDED ITEMS WILL NOT BE ACCEPTED.
16. NON-SHRINK GROUT SHALL BE FLOWABLE, NON-STAINING, CEMENT-BASED PRODUCT THAT IS MANUFACTURED PREMIXED REQUIRING ONLY THE ADDITION OF WATER. GROUT SHALL BE CAPABLE OF ACHIEVING 5,000 PSI IN 7 DAYS AND 7,000 PSI IN 28 DAYS MIXED AT A PLASTIC CONSISTENCY.
17. CHEMICAL ADHESIVE SYSTEMS:
a. CHEMICAL ADHESIVE SYSTEMS SHALL BE USED TO INSTALL ALL DRILLED-IN ANCHOR COMPONENTS (BOLTS, DOWELS, ETC.) INTO HARDENED CONCRETE.
b. NO CHEMICAL ADHESIVE SYSTEMS, ANCHORS, BOLTS, DOWELS, ETC. MAY BE INSTALLED EARLIER THAN 7 DAYS AFTER CONCRETE PLACEMENT.
c. SUBMIT CHEMICAL ADHESIVE PRODUCT CATALOG CUTS FOR APPROVAL.
18. REFER TO DIVISION 03 OF THE SPECIFICATIONS FOR ALL OTHER REQUIREMENTS.

MASONRY NOTES:

- 1. ALL MASONRY WALLS SHALL BE REINFORCED. REFER TO REINFORCED MASONRY DETAILS INDICATED ON THESE STRUCTURAL DRAWINGS.
2. ALL MASONRY CELLS CONSISTING OF REINFORCING BARS SHALL BE GROUTED SOLID.
3. BASE OF WALL DOWELS SHALL BE INSTALLED AT EVERY REINFORCED MASONRY CELL.
4. FULLY GROUT ALL CELLS OF MASONRY CONSTRUCTED BELOW GRADE.
5. CONTINUOUS BOND BEAMS SHALL BE CONSTRUCTED AT TOP OF MASONRY WALLS THAT SUPPORT A ROOF OR FLOOR SLAB ABOVE. THESE BOND BEAMS SHALL NOT BE INTERRUPTED AT CONTROL JOINTS.
6. INFILL MASONRY AROUND ALL EMBEDDED BEAMS AND COLUMNS POCKETED INTO THE WALL.
7. LINTELS ARE REQUIRED FOR ALL CMU WALL OPENINGS GREATER THAN 16 INCHES.

STRUCTURAL STEEL NOTES:

- 1. ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT EDITION OF "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC).
2. FABRICATION, WELDING, ERECTION, AND INSPECTION CONFORMS TO THE AISC MANUAL OF STEEL CONSTRUCTION - LATEST EDITION
3. MATERIALS FOR STRUCTURAL MEMBERS SHALL CONFORM WITH THE ASTM DESIGNATIONS AS FOLLOWS:
- W-SHAPES: ASTM A992, GRADE 50
- CHANNELS, TEES, & ANGLES: ASTM A36 (36 KSI)
- HOLLOW STRUCTURAL SHAPES (HSS): ASTM A500, GRADE B (46 KSI)
- STRUCTURAL PLATES: ASTM A36 (36 KSI)
3. ALL FABRICATIONS SHALL CONSIST OF FULLY WELDED CONNECTIONS, UNLESS INDICATED OTHERWISE.
4. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "2025 STRUCTURAL WELDING CODE - STEEL" (AWS D1.1).
a. FILLER METAL: AWS 5.1 OR 5.5
b. WELDING ELECTRODES: E70XX SMAW
c. ALL FIELD WELDS SHALL BE CLEANED, AND SHALL BE PRIMED AND TOP COATED WITH PAINT TO PREVENT FROM RUSTING.
5. MATERIALS FOR FASTENERS SHALL CONFORM WITH THE ASTM AND ANSI DESIGNATIONS AS FOLLOWS:
- STRUCTURAL BOLTS: ASTM A325N
- STRUCTURAL NUTS: ASTM A563
- STEEL WASHERS: ASTM F436
- ANCHOR BOLTS (RODS): ASTM F1554 (HOT-DIP GALVANIZED)
6. PROVIDE 1/4" FILLET WELDS UNLESS SPECIFIED OTHERWISE WITH E70XX SERIES LOW HYDROGEN ELECTRODES/RODS.
7. STEEL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS ARE TO BE FULL DEPTH CONNECTIONS MADE WITH 5/16" DOUBLE ANGLES AND MAXIMUM NUMBER OF 3/4 INCH DIAMETER A325 BOLTS UNLESS SPECIFIED OTHERWISE.
8. ALL BOLTED CONNECTIONS SHALL BE MADE SNUG TIGHT.
9. ALL ANCHOR BOLTS SHALL BE DRILLED INTO THE EXISTING FLOOR SLAB AND SET WITH CHEMICAL ADHESIVE ANCHORING SYSTEM.
10. ALL STEEL MEMBERS, COMPONENTS, AND FASTENERS SHALL BE HOT DIPPED GALVANIZED.
11. SUBMIT FULLY DETAILED SHOP FABRICATION DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND ERECTION. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.

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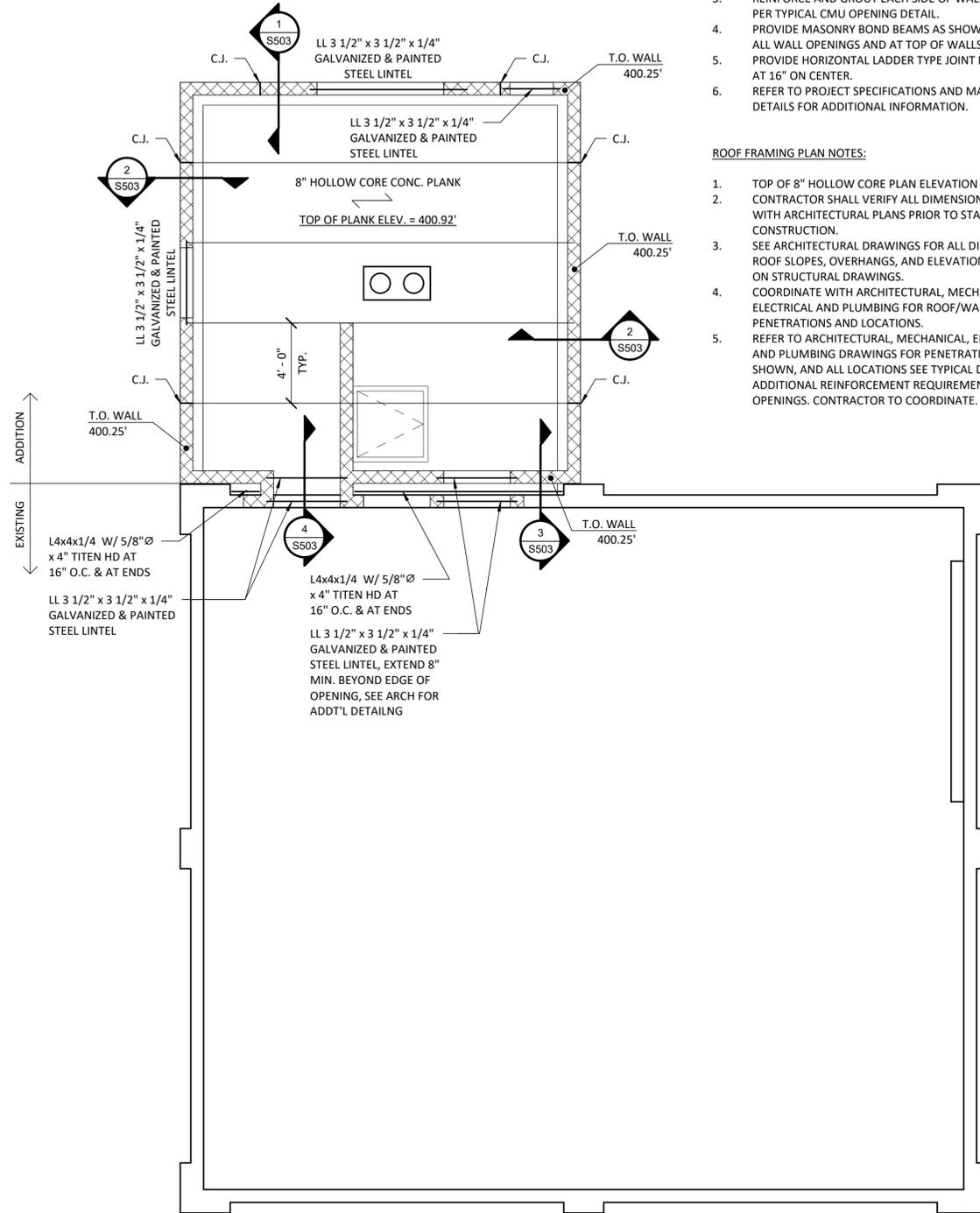
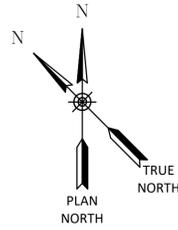
Table with 2 columns: REVISIONS, with empty rows for tracking changes.

SOUTHERN CAYUGA INTERMUNICIPAL WATER COMMISSION
BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
STRUCTURAL NOTES
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088
NYS CERTIFICATE # 0021642, 0020288, 0019903, 0019905, 0020336

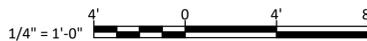


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ROOF FRAMING PLAN

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

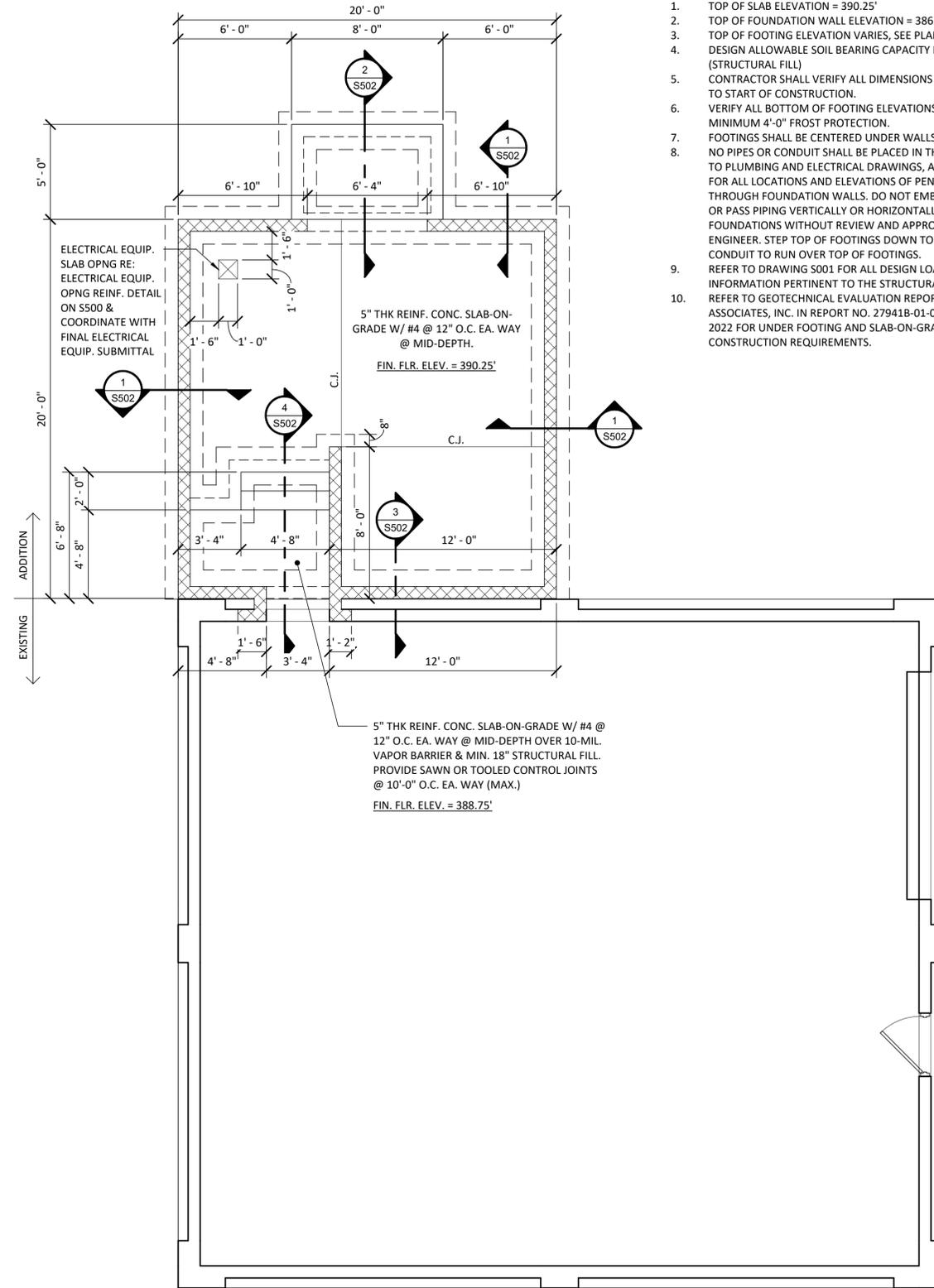


MASONRY WALL FRAMING NOTES:

1. ALL MASONRY WALLS SHOWN SHALL BE 8" CMU W/ #5 @ 48" O.C. VERTICAL REINFORCING, U.N.O.
2. REINFORCE AND GROUT THREE CORES AT BUILDING CORNERS PER TYPICAL CMU CORNER DETAIL.
3. REINFORCE AND GROUT EACH SIDE OF WALL OPENINGS PER TYPICAL CMU OPENING DETAIL.
4. PROVIDE MASONRY BOND BEAMS AS SHOWN AND OVER ALL WALL OPENINGS AND AT TOP OF WALLS.
5. PROVIDE HORIZONTAL LADDER TYPE JOINT REINFORCING AT 16" ON CENTER.
6. REFER TO PROJECT SPECIFICATIONS AND MASONRY DETAILS FOR ADDITIONAL INFORMATION.

ROOF FRAMING PLAN NOTES:

1. TOP OF 8" HOLLOW CORE PLAN ELEVATION = 400.92'
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS WITH ARCHITECTURAL PLANS PRIOR TO START OF CONSTRUCTION.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ROOF SLOPES, OVERHANGS, AND ELEVATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
4. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR ROOF/WALL PENETRATIONS AND LOCATIONS.
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN, AND ALL LOCATIONS SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS. CONTRACTOR TO COORDINATE.



FOUNDATION & SLAB PLAN

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

FOUNDATION & SLAB PLAN NOTES:

1. TOP OF SLAB ELEVATION = 390.25'
2. TOP OF FOUNDATION WALL ELEVATION = 386.25'
3. TOP OF FOOTING ELEVATION VARIES, SEE PLAN
4. DESIGN ALLOWABLE SOIL BEARING CAPACITY IS 2,000 PSF (STRUCTURAL FILL)
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO START OF CONSTRUCTION.
6. VERIFY ALL BOTTOM OF FOOTING ELEVATIONS PROVIDE A MINIMUM 4'-0" FROST PROTECTION.
7. FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, U.N.O.
8. NO PIPES OR CONDUIT SHALL BE PLACED IN THE FOOTINGS. REFER TO PLUMBING AND ELECTRICAL DRAWINGS, AND UTILITY PLANS FOR ALL LOCATIONS AND ELEVATIONS OF PENETRATIONS THROUGH FOUNDATION WALLS. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH FOUNDATIONS WITHOUT REVIEW AND APPROVAL BY THE ENGINEER. STEP TOP OF FOOTINGS DOWN TO ALLOW PIPES OR CONDUIT TO RUN OVER TOP OF FOOTINGS.
9. REFER TO DRAWING S001 FOR ALL DESIGN LOADS AND OTHER INFORMATION PERTINENT TO THE STRUCTURAL DESIGN.
10. REFER TO GEOTECHNICAL EVALUATION REPORT PROVIDED BY CME ASSOCIATES, INC. IN REPORT NO. 27941B-01-0722 DATED JULY 21, 2022 FOR UNDER FOOTINGS AND SLAB-ON-GRADE SUPPORT CONSTRUCTION ELEVATIONS.

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REVISIONS	

SOUTHERN CAYUGA INTERMUNICIPAL WATER COMMISSION
 BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
FOUNDATION/SLAB PLAN & ROOF FRAMING PLAN
 TOWN OF LANSING
 TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
 443 Electronics Parkway
 Liverpool, NY 13088
B&L
 NYS CERTIFICATE #
 0021642, 0020288, 0019903,
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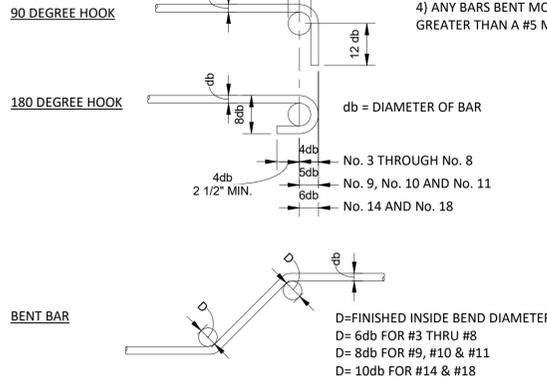
Bar Size	DEVELOPMENT "DEV" FOR UNCOATED BARS					
	Lengths (In.) per Concrete Strength (psi)					
	3000 psi		4000 psi		5000 psi +	
Top Bars	Typ Bars	Top Bars	Typ Bars	Top Bars	Typ Bars	
#3	22	17	19	15	17	13
#4	29	22	25	19	22	17
#5	36	28	31	24	28	22
#6	43	33	37	29	33	26
#7	63	48	54	42	49	37
#8	72	55	62	48	55	43
#9	81	62	70	54	63	48
#10	91	70	79	61	70	54
#11	101	78	87	67	78	60
#14	125	96	108	83	97	75
#18	161	124	139	107	125	96

Bar Size	"LAP" SPLICE LENGTH FOR UNCOATED BARS					
	Lengths (In.) per Concrete Strength (psi)					
	3000 psi		4000 psi		5000 psi +	
Top Bars	Typ Bars	Top Bars	Typ Bars	Top Bars	Typ Bars	
#3	28	22	24	19	22	17
#4	37	29	32	25	29	22
#5	47	36	40	31	36	28
#6	56	43	48	37	43	33
#7	81	63	70	54	63	49
#8	93	72	80	62	72	55
#9	105	81	91	70	81	63
#10	118	91	102	79	91	70

- NOTES**
- TABULATED VALUES ARE BASED ON GRADE 60 UNCOATED (NO EPOXY COATED) REINFORCING BARS AND NORMAL WEIGHT CONCRETE. LENGTHS ARE IN INCHES.
 - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS. VERTICAL BARS ARE NOT CONSIDERED TOP BARS.
 - SPLICE LENGTHS FOR REBAR WITH DIFFERENT SIZES SHALL BE BASED ON THE SPLICE LENGTH FOR THE SMALLER SIZE BAR.
 - TABLE ASSUMES BARS HAVE COVER GREATER THAN BAR DIAMETERS AND CENTER TO CENTER SPACING GREATER THAN BAR DIAMETERS.
 - FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

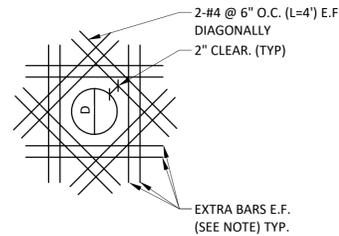
REBAR DEVELOPMENT AND LAP LENGTH SCHEDULES

SCALE: NOT TO SCALE



STANDARD HOOK AND BAR BENDING DETAIL

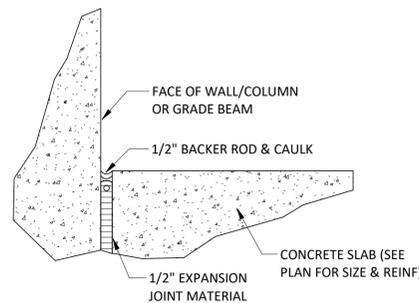
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- NOTES:**
- ON EACH SIDE OF OPENING PROVIDE EXTRA BARS EQUIVALENT IN AREA TO 1/2 THE AREA OF BARS CUT BY THE OPENING. MIN. BAR SIZE SHALL BE #4.
 - EXTEND BARS A MIN. OF 48 BAR DIAMETERS BEYOND THE FACE OF THE OPENING.
 - DETAIL ALSO APPLIES TO DOOR OPENINGS IN CONCRETE WALLS.

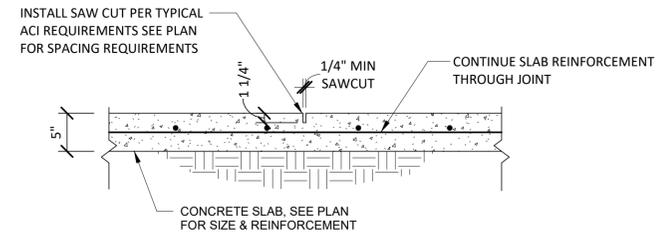
TYP. REINF. AROUND CONC. OPENING DETAIL

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

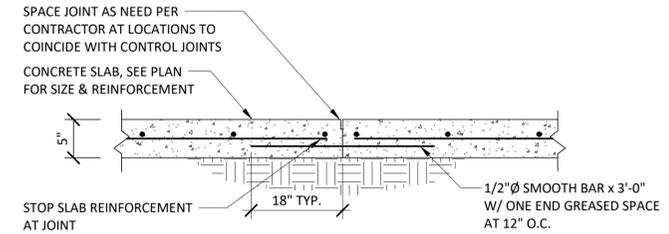


EXPANSION JOINT DETAIL

SCALE: NOT TO SCALE



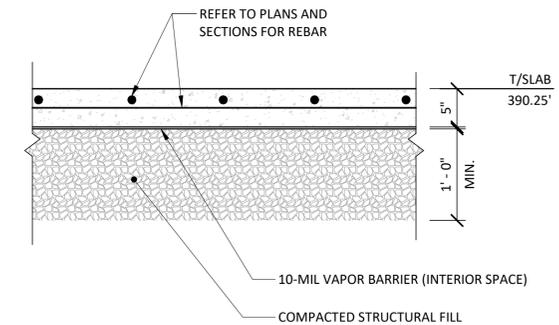
SAWED CONTROL JOINT (C.J.)



CONSTRUCTION JOINT

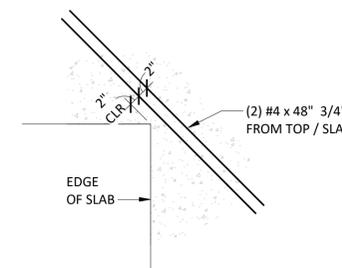
SLAB-ON-GRADE CONTROL JOINTS DETAIL

SCALE: NOT TO SCALE



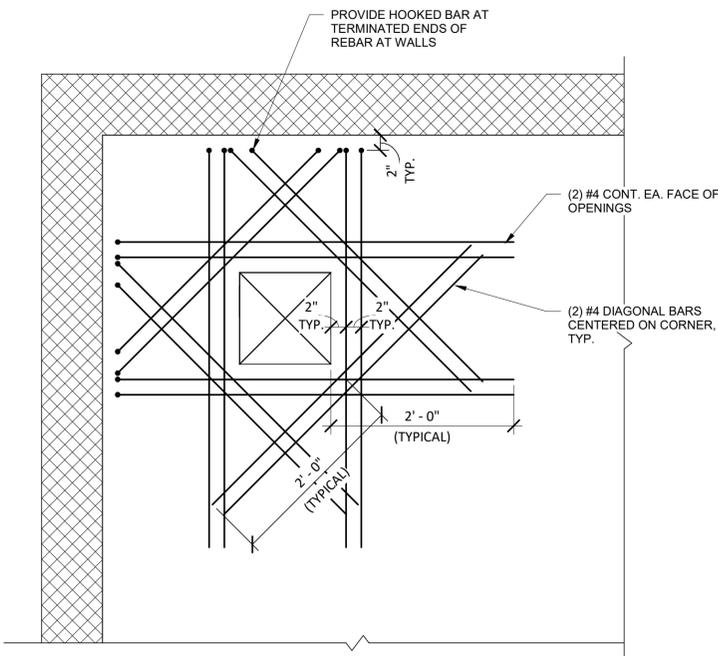
TYPICAL SLAB ON GRADE DETAIL

SCALE: 1" = 1'-0"



ADD. REINF. AT S.O.G. CORNERS DETAIL

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



ELECTRICAL EQUIP. OPNG REINF. DETAIL

SCALE: NOT TO SCALE

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NO.	REVISIONS

SOUTHERN CAYUGA INTERMUNICIPAL WATER COMMISSION
 BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
TYPICAL FOUNDATION/SLAB-ON-GRADE DETAILS
 TOWN OF LANSING
 TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
 443 Electronics Parkway
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BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
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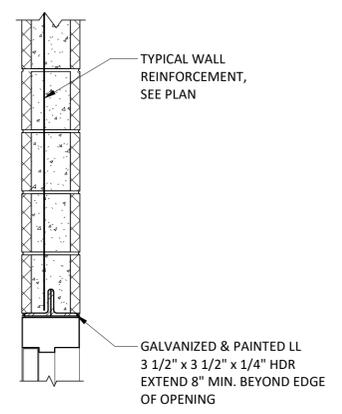
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LAP SPLICE LENGTH FOR UNCOATED BARS IN CMU			
BAR SIZE	LAP LENGTH (IN.) PER CMU STRENGTH (PSI)		
	1500 PSI	2000 PSI	2500 PSI
#3	12	12	12
#4	24	20	18
#5	36	32	30
#6	54	54	54
#7	66	66	66
#8	72	72	72
#9	84	84	84

- NOTES:**
- TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS.
 - LAP LENGTHS ARE IN INCHES.
 - FOR EPOXY-COATED REINFORCING BARS, MULTIPLY THE TABULATED VALUES BY 1.5.
 - ALL LAP SPLICES SHALL BE CONTACT LAPS, WITH LESS THAN 2" BTWN LAPPED BARS.

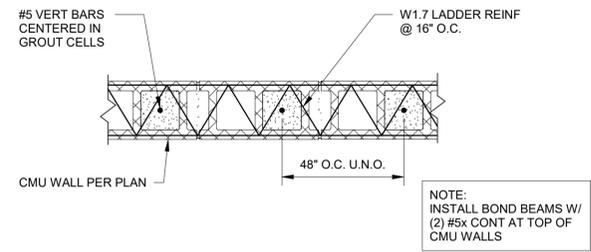
LAP SPLICE SCHEDULE

SCALE: NOT TO SCALE



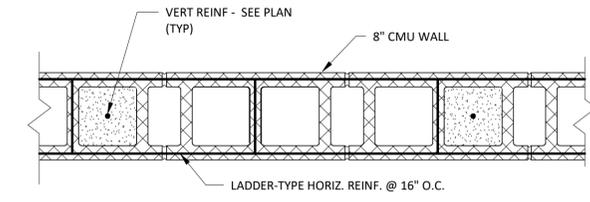
TYP CMU OPENING W/ STEEL LINTEL & BOND BEAM DETAIL

SCALE: 1" = 1'-0"



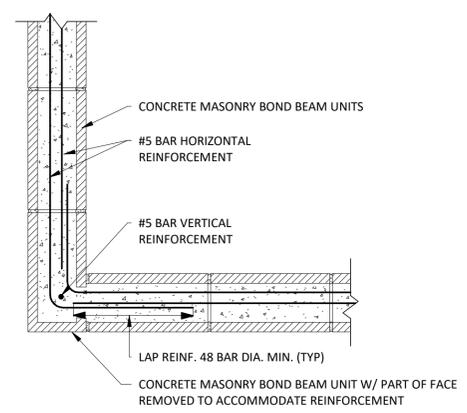
CMU DETAIL

SCALE: NOT TO SCALE



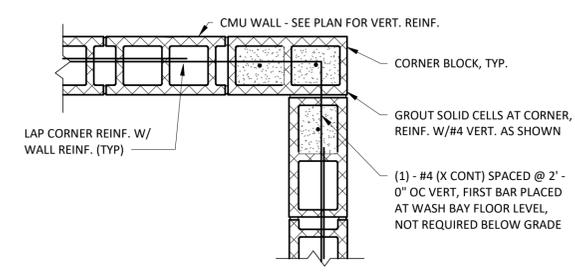
TYP. MASONRY HORIZ. REINF. DETAIL

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



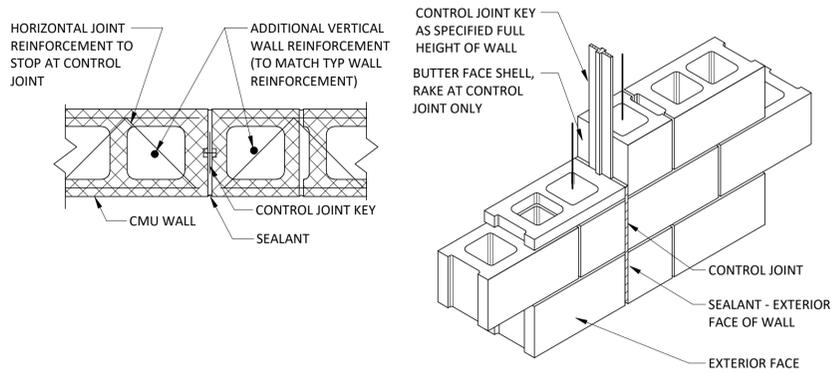
TYP. BOND BEAM CORNER REINF. DETAIL

SCALE: 1" = 1'-0"



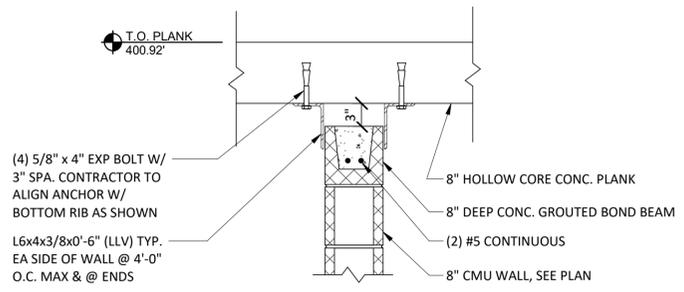
TYP. CMU CORNER DETAIL

SCALE: 1" = 1'-0"



TYPICAL VERTICAL CMU CONTROL JOINT DETAIL

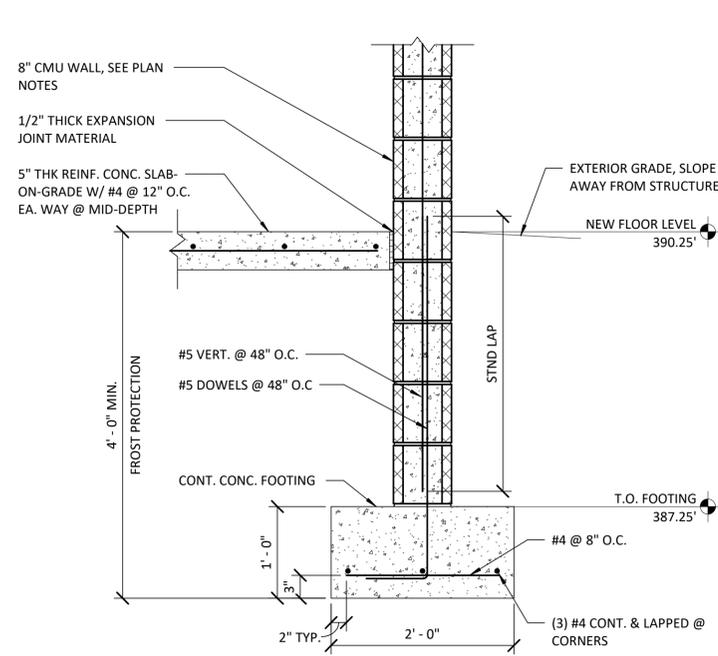
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TOP OF CMU PARTITION CONNECTION

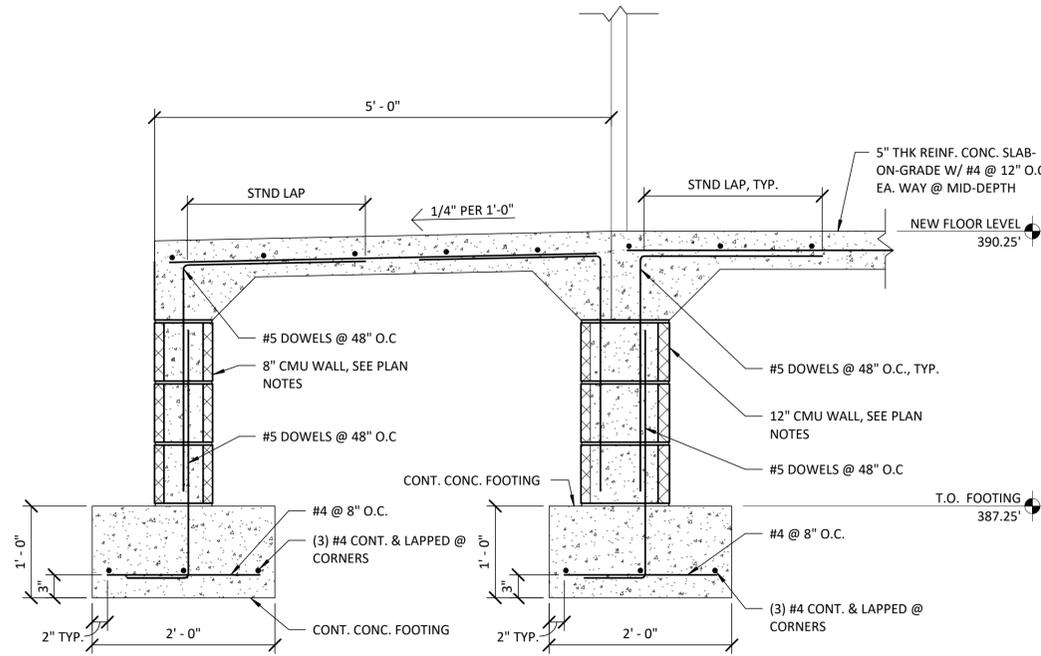
SCALE: 1" = 1'-0"

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Checked by: DPM
Drawn by: KLN
Designed by: KLN
In Charge of: MCE



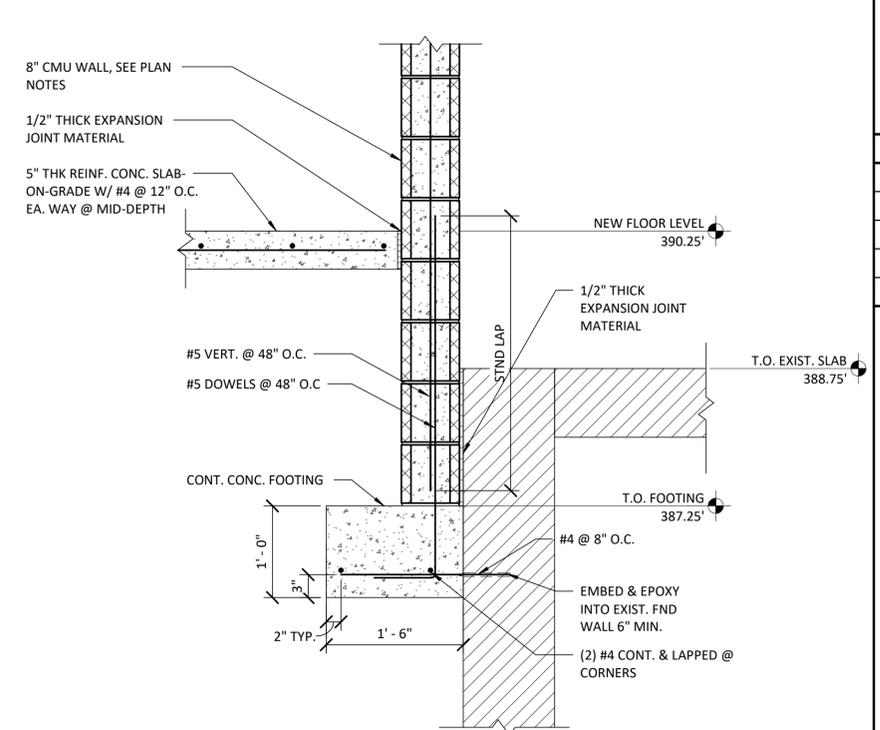
1 TYPICAL FNDN WALL SECTION
SCALE: 1" = 1'-0"

NOTE: SEE ARCH SHEETS FOR INSULATION, WATER-RESISTIVE BARRIER, EXTERIOR/INTERIOR FINISH AND FLASHING DETAILING



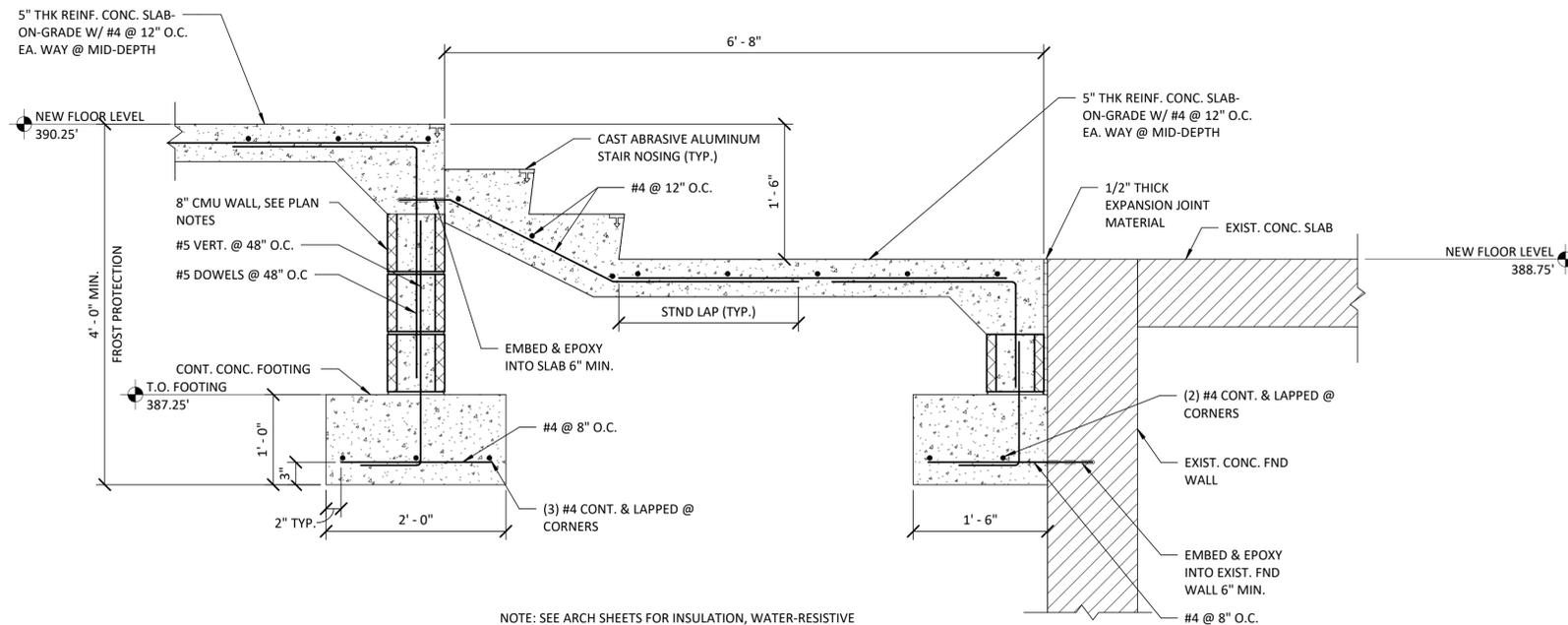
2 EXTERIOR SLAB SECTION
SCALE: 1" = 1'-0"

NOTE: SEE ARCH SHEETS FOR INSULATION, WATER-RESISTIVE BARRIER, EXTERIOR/INTERIOR FINISH AND FLASHING DETAILING



3 FNDN WALL SECTION @ EXIST. BUILDING
SCALE: 1" = 1'-0"

NOTE: SEE ARCH SHEETS FOR INSULATION, WATER-RESISTIVE BARRIER, EXTERIOR/INTERIOR FINISH AND FLASHING DETAILING



4 STAIR SECTION
SCALE: 1" = 1'-0"

NOTE: SEE ARCH SHEETS FOR INSULATION, WATER-RESISTIVE BARRIER, EXTERIOR/INTERIOR FINISH AND FLASHING DETAILING

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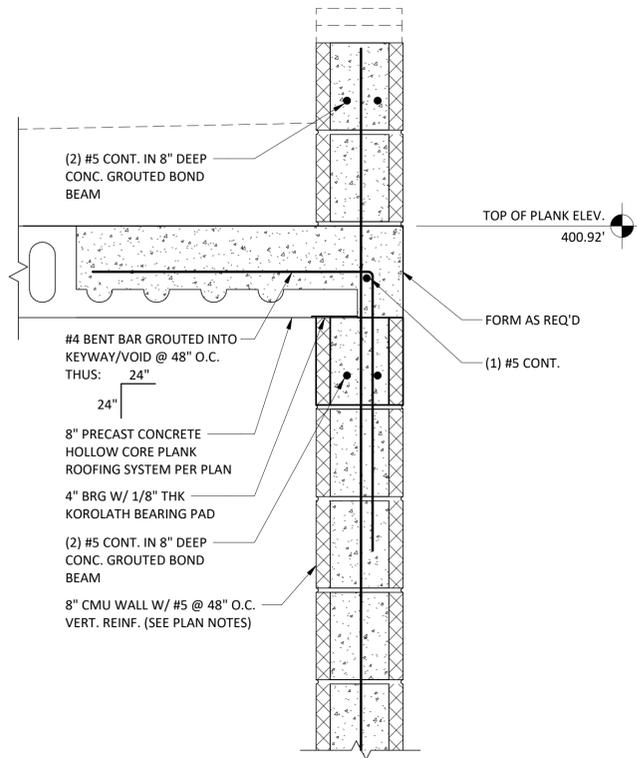
REVISIONS	

SOUTHERN CAYUGA INTERMUNICIPAL WATER COMMISSION
BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088
NYS CERTIFICATE #
0021642, 0020288, 0019903,
0019905, 0020336



NYS EXP.: MAY 31, 2026
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S502
Project Number
677.008.001

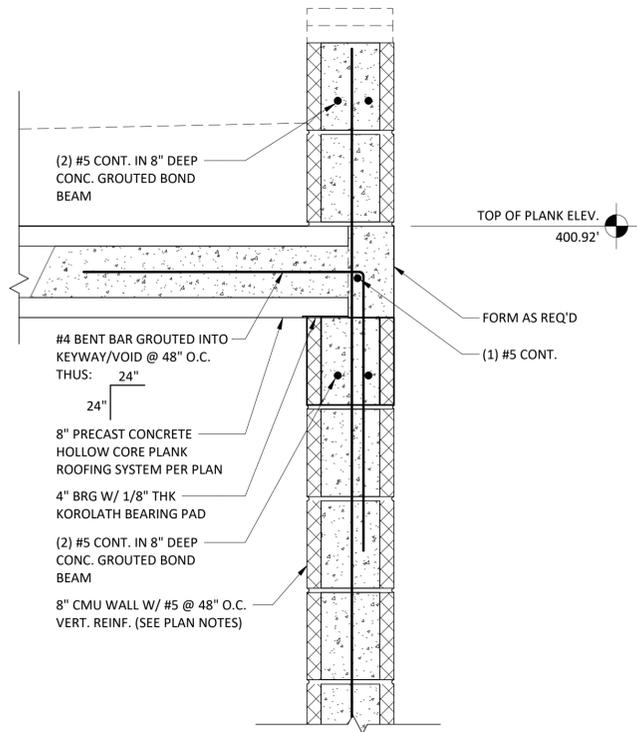


NOTE: SEE ARCH SHEETS FOR INSULATION, WATER-RESISTIVE BARRIER, EXTERIOR/INTERIOR FINISH, ROOF SYSTEM, AND FLASHING DETAILING

8" 'HOLLOW CORE PLANK AT PARALLEL CMU

1 WALL SECTION

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

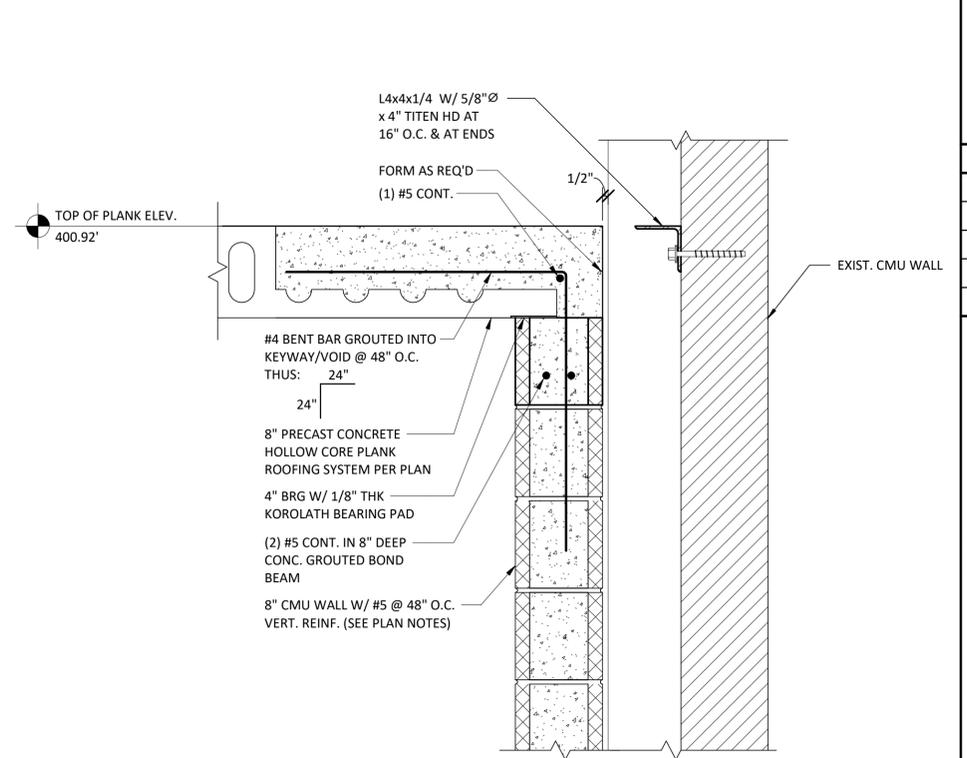


NOTE: SEE ARCH SHEETS FOR INSULATION, WATER-RESISTIVE BARRIER, EXTERIOR/INTERIOR FINISH, ROOF SYSTEM, AND FLASHING DETAILING

8" HOLLOW CORE PLANK AT PERP CMU WALL

2 SECTION

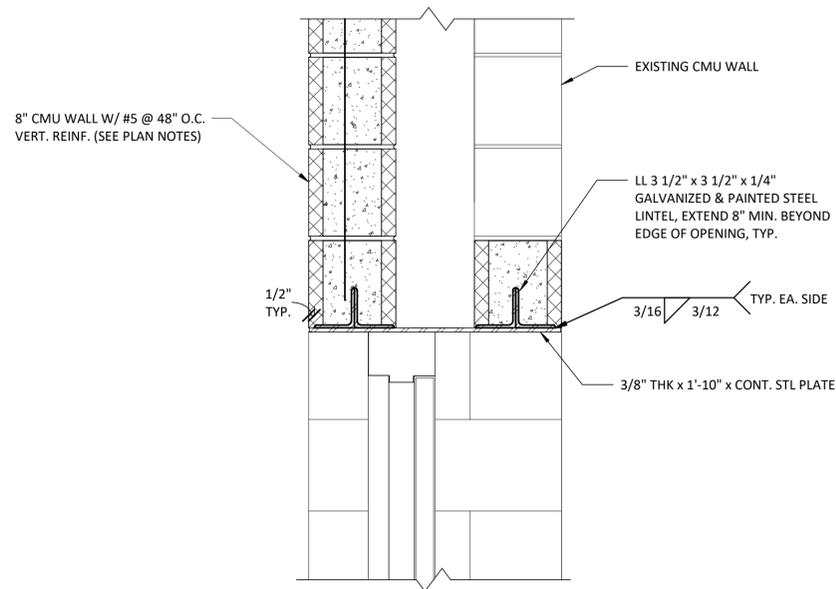
SCALE: 1 1/2" = 1'-0"



NOTE: SEE ARCH SHEETS FOR INSULATION, WATER-RESISTIVE BARRIER, EXTERIOR/INTERIOR FINISH, ROOF SYSTEM, AND FLASHING DETAILING

8" 'HOLLOW CORE PLANK SECTION @ EXIST. BLDG

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



4 WALL LNTL SECTION

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

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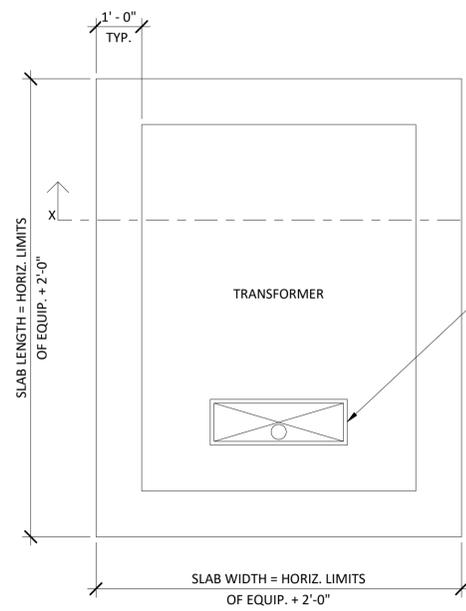
REVISIONS	

SOUTHERN CAYUGA INTERMUNICIPAL WATER COMMISSION
 BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
ROOF FRAMING SECTIONS
 TOMPKINS COUNTY, NEW YORK
 TOWN OF LANSING

Barton & Loguidice
 443 Electronics Parkway
 Liverpool, NY 13088
 NYS CERTIFICATE #
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 0019905, 0020336



NYS EXP.: MAY 31, 2026
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Project Number 677.008.001



PLAN

BOX OUT/FORM OPEN'G IN SLAB FOR CONDUITS. COORD. W/ APP'D ELEC. EQUIP AND CONDUIT REQ'S, SEE "ELECTRICAL CONDUIT SLAB PENETRATION REINFORCING DETAIL" FOR ADDITIONAL REINF, (TYP.)

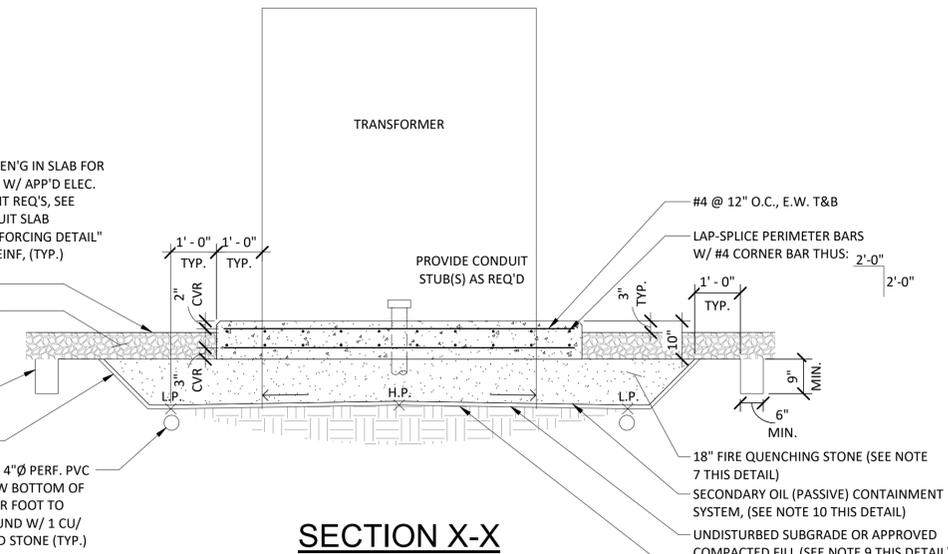
FINISHED GRADE

SURFACE STONE (SEE NOTE 12 THIS DETAIL), TYP.

ANCHOR TRENCH, TYP.

1:1 SLOPE, TYP.

PERIMETER DRAIN - 4"Ø PERF. PVC PIPE, MIN. 3" BELOW BOTTOM OF L.P. - SLOPE 1/4" PER FOOT TO DAYLIGHT - SURROUND W/ 1 CU/ FT./LIN FT. CRUSHED STONE (TYP.)



SECTION X-X

NOTES:

1. SLAB SHALL BE 10" THICK, USING A 28 DAY DESIGN CONCRETE MIX OF 4,000 PSI W/ 6% (+/- 1%) AIR ENTRAINMENT.
2. REINFORCEMENT SHALL COMPLY W/ ASTM A-615, GRADE 60 (DEFORMED).
3. TOP OF PAD SHALL HAVE A SMOOTH TROWELED FINISHED.
4. PROVIDE 3/4" CHAMFER @ ALL EXPOSED EDGES (INCLUDING OPENING).
5. TYPICAL SLAB REINFORCING SHALL BE #4 @ 12" O.C. EACH WAY, TOP AND BOTTOM.
6. CONCRETE COVER OVER REINFORCEMENT SHALL BE 2" CLEAR AT TOP AND SIDES OF PAD, 3" CLEAR AT BOTT. OF PAD.
7. FIRE QUENCHING STONE MUST MEET ASTM SPECIFICATION D448-03a (No. 1, 2, or 3), BE 100% FRACTURED, WELL GRADED BETWEEN 1 1/2" AND 3". STONE CAN BE BASALT, GRANITE, OR LIMESTONE. THE POROSITY OF THE STONE MUST BE A MINIMUM OF 40%. THE STONE SHALL BE PLACED UNDER ALBARRIE'S SUPERVISION. STONE MUST HAVE A MINIMUM ELECTRICAL RESISTIVITY OF 3000 OHM-M.
8. PROVIDE MANUFACTURED, PRE-FABRICATED PLASTIC CHAIR SUPPORT OF SLAB REINFORCEMENT SPACED TO MAINTAIN REINFORCEMENT LOCATION AS SHOWN. REINFORCEMENT SUPPORTS SHALL BE SPACED AS NEEDED TO PREVENT MOVEMENT DUE TO WEIGHT OF CONSTRUCTION MATERIALS, EQUIPMENT AND WORKERS. REINFORCEMENT SUPPORTS SHALL BE AS MANUFACTURED BY DAYTON SUPERIOR, TYPE: AZTEC "CASTLE CHAIR - PCC" AND "STRONGBACK SBU SLAB BOLSTER UPPER - PSBU", OR APPROVED EQUAL.
9. SLOPE SUB-GRADE 0.5% (MIN.) IN EACH DIRECTION FROM A HIGH POINT (H.P.) AT SLAB CENTER TO LOW POINT (L.P.) AT 1'-0" BEYOND SLAB LIMITS.
10. PROVIDE SECONDARY OIL (PASSIVE) CONTAINMENT SYSTEM (SOCS), TYPE: SORBWEB PLUS AS MFG'R'D. BY ALBARRIE GEOCOMPOSITES LTD (www.sorbwebplus.com). SOCS SHALL BE A NEEDLE-PUNCHED NON-WOVEN GEOTEXTILE MAT INFUSED WITH OIL IMMOBILIZER TO ALLOW SURFACE/GROUND WATER TO PASS, BUT SHALL SEAL AND BLOCK FLOW UPON CONTACT WITH OIL. SYSTEM SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH SPCC, 40 CFR 112.(7)(C) SECONDARY CONTAINMENT FOR ELECTRICAL EQUIPMENT AND IEEE P980 GUIDE FOR CONTAINMENT AND CONTROL OF OIL SPILLS IN ELECTRICAL SUBSTATIONS. DOCUMENTATION OF SYSTEM'S COMPLIANCE WITH THE CITED SPCC AND IEEE REQUIREMENTS SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE BY THE ENGINEER PRIOR TO SYSTEM PURCHASE AND INSTALLATION. CONTAINMENT TO BE APPROVED FOR FR3 FLUID.
11. ANCHORAGE OF EQUIPMENT TO SLAB BY ELECTRICAL CONTRACT (TYP.).
12. SURFACE STONE TO BE NO. 2 WASHED LIMESTONE.
13. ALL WORK SHALL BE COORDINATED WITH ALBARRIE.

TRANSFORMER PAD

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

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REVISIONS	

SOUTHERN CAYUGA INTERMUNICIPAL WATER COMMISSION
 BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
TRANSFORMER PAD DETAILING
 TOMPKINS COUNTY, NEW YORK
 TOWN OF LANSING

Barton & Loguidice
 443 Electronics Parkway
 Liverpool, NY 13088
 NYS CERTIFICATE # 0021642, 0020288, 0019903, 0019905, 0020336



NYS EXP.: MAY 31, 2026
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Project Number 677.008.001

SYMBOLS

- BREAK
- PIPING/EQUIPMENT TO BE REMOVED
- LIMIT OF REMOVAL
- CONNECTION POINT TO EXISTING
- VOLUME DAMPER
- SUPPLY DUCT SECTION UP
- SUPPLY DUCT SECTION DOWN
- RET/EXH DUT SECTION UP
- RET/EXH DUT SECTION DOWN
- 45° BRANCH DUCT CONNECTION
- NEW SUPPLY DIFFUSER, REGISTER OR GRILLE (WITH CFM)
- NEW RETURN/EXHAUST REGISTER OR GRILLE (WITH CFM)
- THERMOSTAT (ARROW INDICATES DEVICE)

ABBREVIATIONS:

- AAD - AUTOMATIC AIR DAMPER
- ACT - ACOUSTICAL CEILING TILE
- AFF - ABOVE FINISHED FLOOR
- AFG - ABOVE FINISHED GRADE
- ALUM - ALUMINUM
- BLDG - BUILDING
- BOT - BOTTOM
- CFM - CUBIC FEET PER MINUTE
- CL - CENTER LINE
- CLG - CEILING
- CONC - CONCRETE
- CONST - CONSTRUCTION
- CONT - CONTINUOUS
- DN - DOWN
- DTL - DETAIL
- EA - EACH
- EC - ELECTRICAL CONTRACTOR
- ELEC - ELECTRICAL
- EL - ELEVATION
- EQUIP - EQUIPMENT
- E.S.P. - EXTERNAL STATIC PRESSURE
- EXT - EXTERIOR
- EXIST - EXISTING
- FIN FLR - FINISHED FLOOR
- FLA - FULL LOAD AMPS
- FPM - FEET PER MINUTE
- GA - GAUGE
- GALV - GALVANIZED
- HP - HORSE POWER
- HZ - HERTZ
- INSUL - INSULATION
- INV. - INVERT
- MFR - MANUFACTURER
- MAS - MASONRY
- MAX - MAXIMUM
- MIN - MINIMUM
- NIC - NOT IN CONTRACT
- NTS - NOT TO SCALE
- O/C - ON CENTER
- OD - OUTSIDE DIAMETER
- RD - ROOF DRAIN
- RAD - RADIUS
- REQ'D - REQUIRED
- S.S. - STAINLESS STEEL
- STL - STEEL
- T/ - TOP OF
- TYP - TYPICAL
- W.G. - WATER GAUGE

GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS INTENDED THAT ALL COMPONENTS AND MATERIALS REQUIRED TO MAKE THE SYSTEMS COMPLETE, TESTED AND OPERATIONAL BE INSTALLED.
2. CONTRACT 1B SHALL FIELD VERIFY LOCATIONS, DIMENSIONS AND ELEVATIONS BEFORE DEMOLITION AND CONSTRUCTION.
3. MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
4. COMPLETELY COORDINATE WORK OF THIS CONTRACT WITH WORK OF OTHER CONTRACTS AND OWNERS WORK.
5. WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES.
6. MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
7. DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. SUPPORT SHALL COME FROM BUILDING STRUCTURE. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
8. PROVIDE PROPER ACCESS TO MATERIALS AND EQUIPMENT THAT REQUIRE INSPECTION, REPLACEMENT, REPAIR OR SERVICE SUCH AS COILS, DAMPERS, HEATERS, VALVES, ETC. IF PROPER ACCESS CANNOT BE PROVIDED, CONFER WITH THE ENGINEER AS TO THE BEST METHOD OF APPROACH TO MINIMIZE THE EFFECT OF THE REDUCED ACCESS WHICH MAY RESULT.
9. NOTES, SYMBOLS LIST, AND ABBREVIATIONS ARE APPLICABLE TO ALL DRAWINGS FOR THIS CONTRACT.
10. WORK SHOWN IS TO BE COMPLETED BY THIS CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE.
11. CONTRACT 1B IS RESPONSIBLE FOR OWNER COORDINATION AND PROCEDURES RELATED TO SHUTTING DOWN AND RESTARTING SYSTEMS, INCLUDING THOSE REQUIRED FOR RELOCATIONS, TO ALLOW FOR COMPLETION OF REMOVALS AND NEW WORK. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER. INCLUDE PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH OTHER TRADES.

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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES

SYMBOLS, ABBREVIATIONS AND NOTES

TOWN OF LANSING

TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

B&L

NYS CERTIFICATE #
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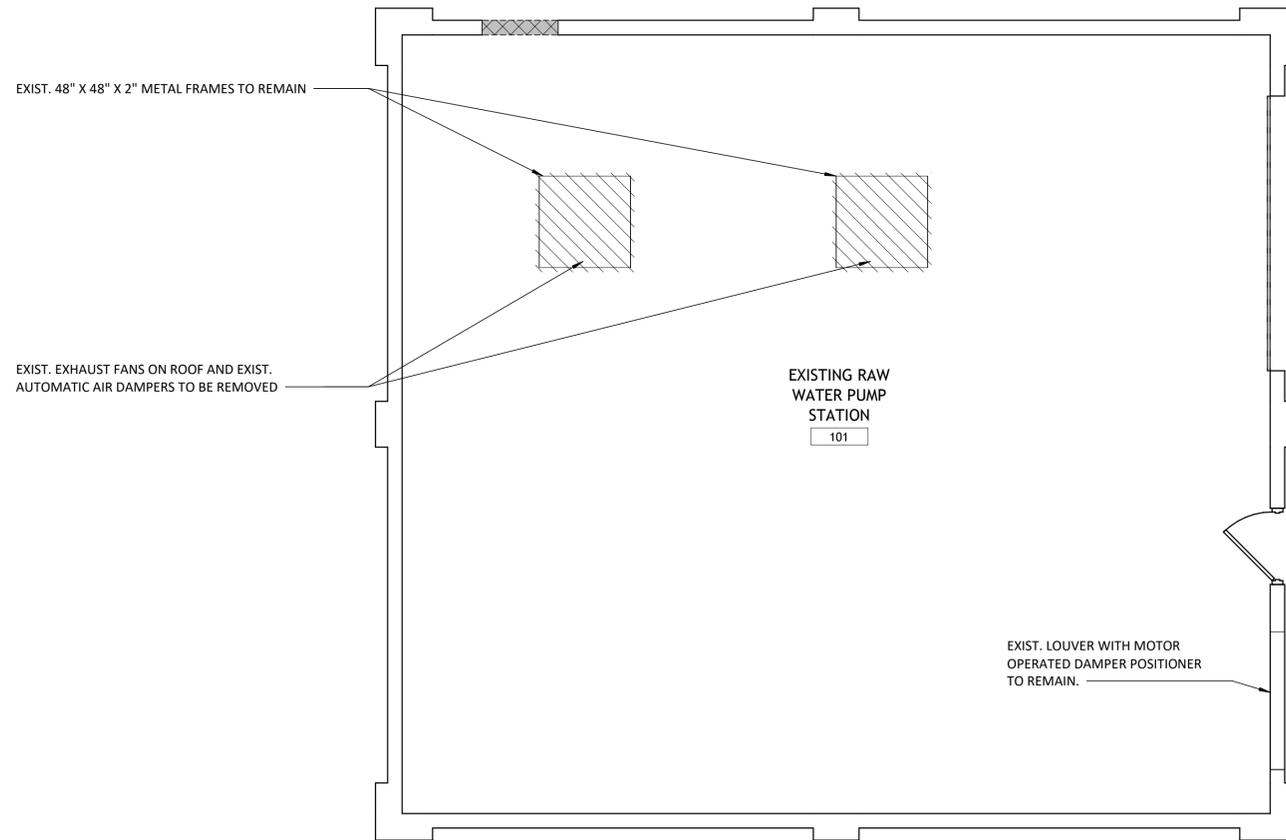


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Sheet Number	M001
Project Number	677.006.001

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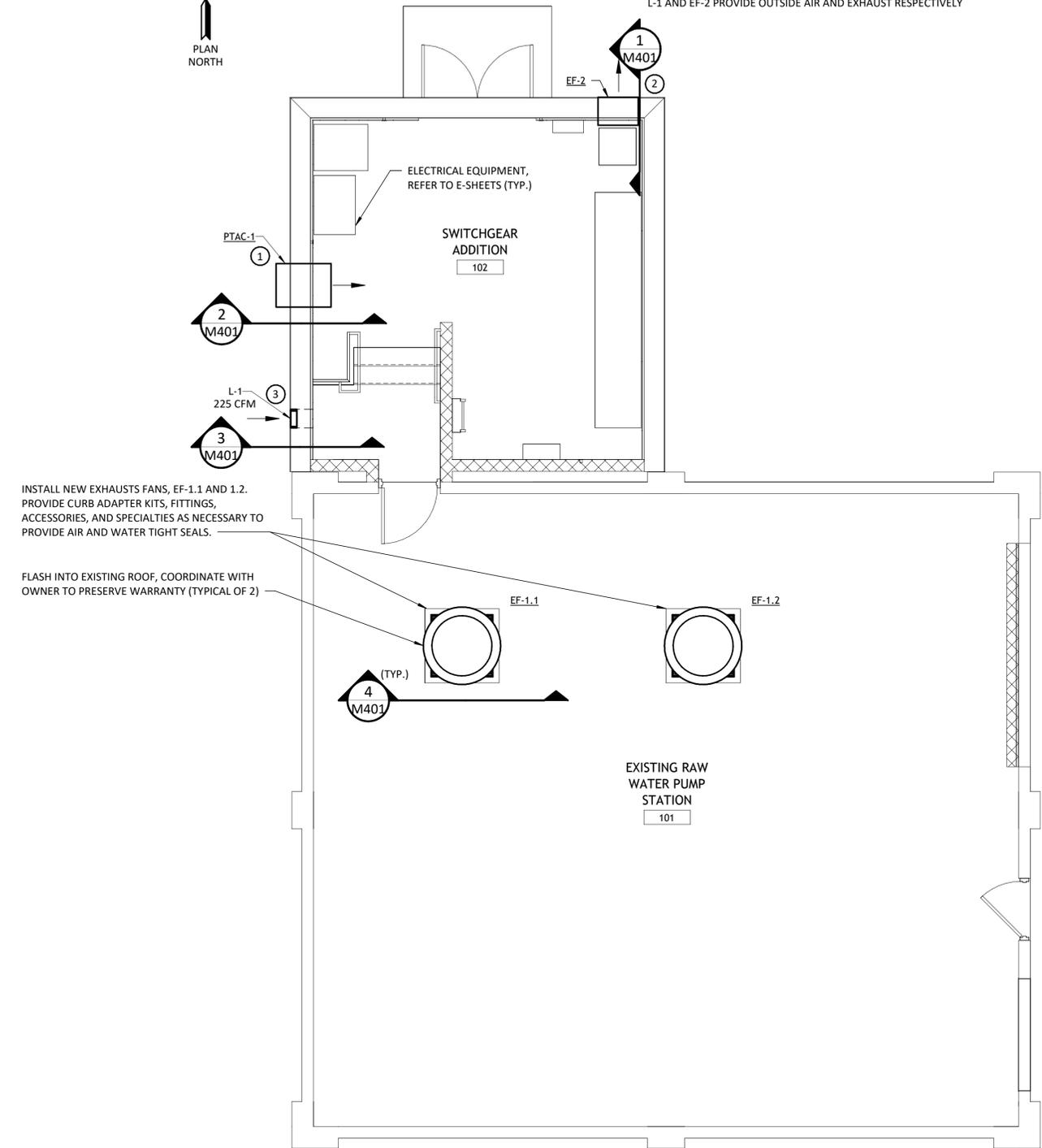
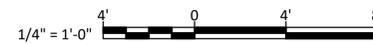
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Checked by: NKE/RAJ Drawn by: JLL In Charge of: FJH



MECHANICAL REMOVAL PLAN

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



MECHANICAL MODIFICATION PLAN

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

- KEY NOTES:**
- ① MOUNT PTAC 0'-11 3/4" ABOVE FINISH FLOOR TO THE BOTTOM OF THE PTAC.
 - ② MOUNT FAN 5'-8" ABOVE FINISH FLOOR TO THE BOTTOM OF THE EXHAUST FAN.
 - ③ MOUNT LOUVER 5'-2" ABOVE FINISH FLOOR TO THE BOTTOM OF THE LOUVER.
- SEQUENCE OF OPERATIONS:**
- EF-1.1 IS NORMALLY OPEN TO PROVIDE 12 ACH TO MAIN ROOM.
 - EF-1.2 IS NORMALLY CLOSED AND OPENS TO PROVIDE HEAT REJECTION FROM WATER PROCESS. RE-INTEGRATE EXISTING CONTROLS EQUIPMENT WITH EF-1.1 AND EF-1.2 TO MATCH EXISTING CONTROLS.
 - PTAC-1 PROVIDES TEMPERATURE CONTROL AND OUTSIDE AIR TO SWITCHGEAR ADDITION
 - L-1 AND EF-2 PROVIDE OUTSIDE AIR AND EXHAUST RESPECTIVELY

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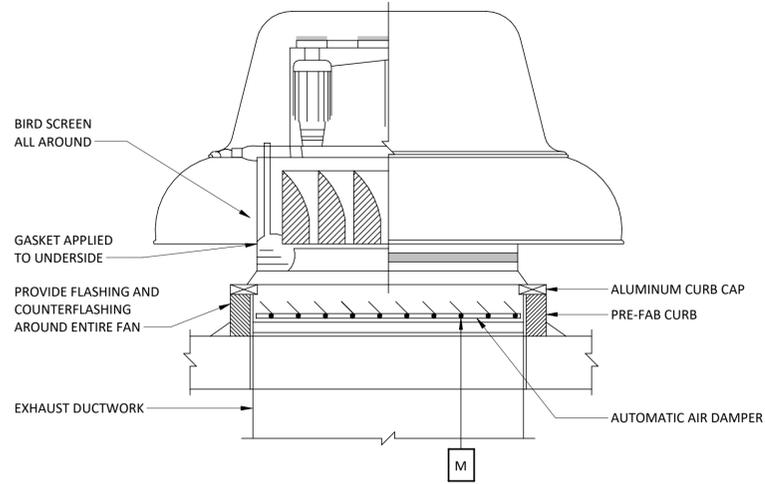
REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
 BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
MECHANICAL DEMOLITION AND MODIFICATION PLANS
 TOWN OF LANSING
 TOMPKINS COUNTY, NEW YORK

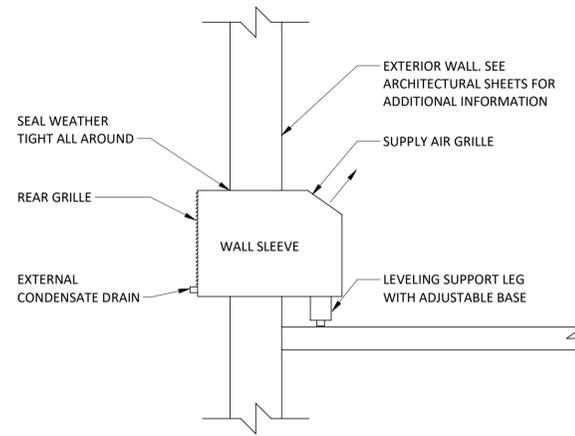
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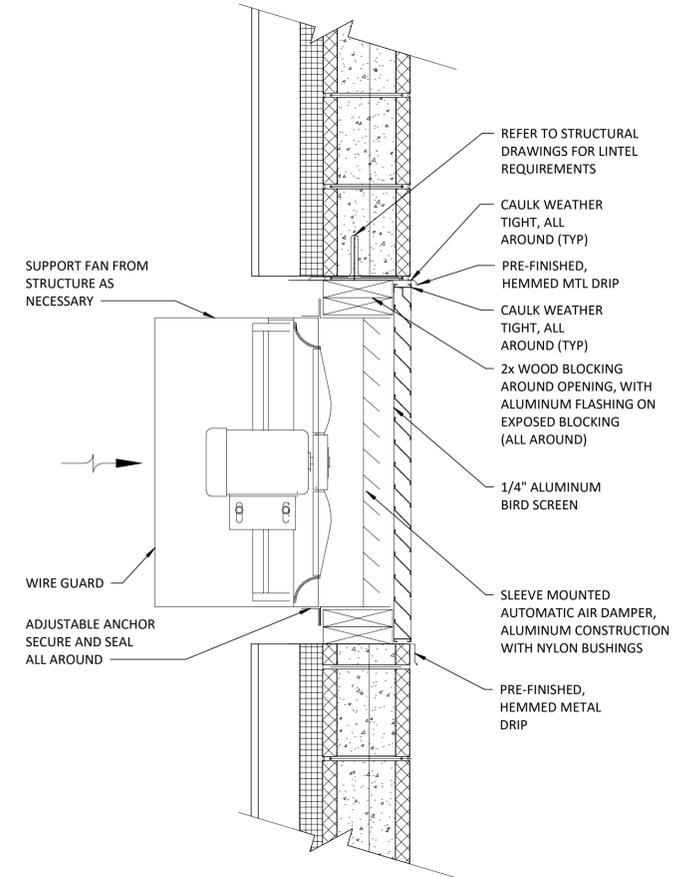
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 Sheet Number: **M101**
 Project Number: 677.006.001



4 TYPICAL ROOF MOUNTED EXHAUST FAN DETAIL
M101 NOT TO SCALE

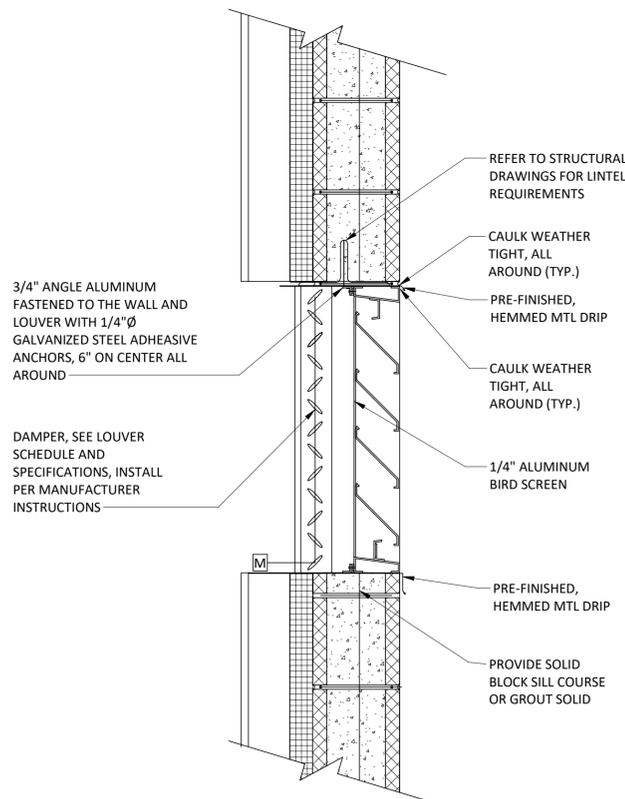


2 PTAC INSTALLATION DETAIL
M101 SCALE: 1" = 1'-0"



- NOTES:**
- COORDINATE WALL OPENING LOCATIONS AND SIZES WITH CONTRACT 1A.
 - PROTECT METAL SURFACES FROM DIRECT CONTACT WITH CONCRETE OR MASONRY CONSTRUCTION WITH BITUMINOUS COATING. COAT DUCT SECTION IN WALL CAVITY.

1 WALL EXHAUST FAN WITH LOUVER DETAIL (CMU)
M101 NOT TO SCALE



- NOTES:**
- COORDINATE WALL OPENING LOCATIONS AND SIZES WITH ARCHITECTURAL DRAWINGS AND GC.
 - PROTECT METAL SURFACES FROM DIRECT CONTACT WITH CONCRETE OR MASONRY CONSTRUCTION WITH A COAT OF BITUMINOUS PAINT.

3 INTAKE LOUVER WITH MOD DETAIL
M101 NOT TO SCALE

LOUVER SCHEDULE					
MARK	SERVES	DIMENSIONS (W X H) (IN)	FREE AREA (SF)	BASIS OF DESIGN	
				MANUFACTURER	MODEL
L-1	ADDITION	12 X 12	0.3	GREENHECK	ESD-403

- NOTES:**
- PROVIDE AUTOMATIC AIR DAMPER GREENHECK MODEL VCD-23 AND ALUMINUM BIRD SCREEN. INTERLOCK AUTOMATIC AIR DAMPER WITH EF-2.
 - UNIT SHALL BE AMCA CERTIFIED.
 - PROVIDE PHENOLIC EPOXY POWDER COATING (KYNAR) ON ENTIRE ASSEMBLY. COLOR BY OWNER.
 - COORDINATE WALL OPENING WITH APPROVED LOUVER ASSEMBLY PRIOR TO CONSTRUCTION.

PACKAGED TERMINAL AIR CONDITIONING UNIT (PTAC) SCHEDULE											
MARK	SERVES	CFM	COOLING TOTAL (MBH)	HEATING TOTAL (MBH)	REFRIGERANT	EER	INPUT KW	ELECTRICAL		BASIS OF DESIGN	
								VOLTS / PHASE	MCA / MOCP	MANUFACTURER	MODEL
PTAC-1	ADDITION	600	28.2	21.7	R-32	10.1	5	230 / 1	30 / 30	FRIEDRICH	KHVL28B35A

- NOTES:**
- PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT, FACTORY WALL SLEEVE, EXTERNAL DRAIN KIT AND ARCHITECTURAL LOUVER AND FRAME.

EXHAUST FAN SCHEDULE												
MARK	SERVES	LOCATION	AIRFLOW (CFM)	ESP (IN WG)	DRIVE	RPM	FAN HP	ELECTRICAL		BASIS OF DESIGN		NOTES
								VOLTS / PHASE	MCA / MOCP	MANUFACTURER	MODEL	
EF-1.1	EXIST. RWPS	ROOF	5250	0.47	BELT	477	1	230 / 1	10/15	GREENHECK	GB-300	2, 5
EF-1.2	EXIST. RWPS	ROOF	5250	0.47	BELT	477	1	230 / 1	10/15	GREENHECK	GB-300	2, 5
EF-2	ADDITION	WALL	300	0.125	DIRECT	750	0.02	230 / 1	2.6 / 15	GREENHECK	SE1-12-432-VG	1, 2, 3, 4

- NOTES:**
- PROVIDE 12VAC, 60HZ, 1PH AUTOMATIC AIR DAMPER GREENHECK MODEL VCD-23 AND ALUMINUM BIRD SCREEN. INTERLOCK DAMPER WITH FAN SUCH THAT WHEN THE FAN IS ENERGIZED, THE DAMPER IS FULLY OPEN, AND WHEN THE FAN IS OFF, THE DAMPER IS FULLY CLOSED.
 - FAN SHALL BE UL LISTED AND AMCA CERTIFIED.
 - PROVIDE MOTOR STARTER AND DISCONNECT.
 - INTERLOCK EXHAUST FAN WITH AUTOMATIC AIR DAMPER.
 - PROVIDE WITH REPLACE-IN-KIND ACCESSORIES.

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BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
TOWN OF LANSING
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Checked by: NKE/RAP
Designed by: JLI
In Charge of: FIH

GENERAL NOTES:

- NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS
- ALL WORK SHOWN IS TO BE COMPLETED BY PLUMBING CONTRACTOR UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ADDRESS QUESTIONS REGARDING DRAWINGS TO ENGINEER IN WRITING BEFORE COMMENCING WITH WORK. OTHERWISE, ENGINEER'S INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS INTENDED THAT ALL COMPONENTS AND MATERIALS REQUIRED TO MAKE THE SYSTEMS COMPLETE, TESTED AND OPERATIONAL BE INSTALLED.
- CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS BEFORE FABRICATION AND CONSTRUCTION.
- ALL MATERIALS, EQUIPMENT AND METHODS OF INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
- COMPLETELY COORDINATE WORK OF THIS CONTRACT WITH THE OPERATIONS AND THE WORK OF OTHER CONTRACTORS.
- WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
- FIRE STOP ALL NEW AND EXISTING SLEEVES THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS WITH UL RATED ASSEMBLIES WITH EQUAL FIRE RATING.
- PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS SHALL BE SIZED TO ALLOW THE REQUIRED ACCESS, BUT IN NO CASE LESS THAN 12"x12".
- CONTRACTOR IS RESPONSIBLE FOR ALL OWNER COORDINATION AND PROCEDURES RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND RESTARTING SYSTEMS, ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH OTHER CONTRACTORS.

LEGEND

- SLOPE DN IN DIRECTION OF ARROW
- BREAK
- TEE RISE
- TEE DROP
- PIPE RISE
- PIPE DROP
- PIPE ABOVE SLAB OR GRADE
- PIPE BELOW SLAB OR GRADE
- DIRECTION OF FLOW
- CAP
- UNION
- CONCENTRIC REDUCER
- PRESSURE GAUGE
- THERMOMETER
- STRAINER W/ BLOWDOWN VALVE
- SWING CHECK VALVE
- BALL VALVE
- GATE VALVE
- TRIPLE DUTY VALVE
- BALANCE VALVE
- BALL VALVE W/ HOSE CONNECTION, CAP AND CHAIN
- PRESSURE REDUCING VALVE
- SAFETY RELIEF VALVE
- TEMPERATURE SENSOR
- PUMP
- LPG REGULATOR
- PLUG VALVE
- FLOOR DRAIN
- NON-FREEZE WALL HYDRANT
- CLEANOUT
- DECK PLATE CLEANOUT
- PIPING/EQUIPMENT TO BE REMOVED
- LIMIT OF REMOVAL
- CONNECTION POINT TO EXISTING

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BTU	BRITISH THERMAL UNIT
CI	CAST IRON
CO	CLEANOUT
CONC	CONCRETE
CW	COLD WATER
D	DRAIN
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DN	DOWN
DPCO	DECK PLATE CLEANOUT
DWV	DRAIN, WASTE AND VENT
EC	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
FD	FLOOR DRAIN
FLR	FLOOR
FT WC	FEET OF WATER COLUMN
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HW	HOT WATER
HWR	HOT WATER RECIRCULATED
IN WC	INCHES OF WATER COLUMN
INV	INVERT
LAV	LAVATORY
MAX	MAXIMUM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
RL	ROOF LEADER
SAN	SANITARY
SCH	SCHEDULE
SS	STAINLESS STEEL
T&B	TOP & BOTTOM
TYP	TYPICAL
V	VENT
VTR	VENT THRU ROOF
WC	WATER CLOSET
WH	WALL HYDRANT
WPCO	WALL PLATE CLEANOUT

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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES
PLUMBING GENERAL NOTES, ABBREVIATIONS AND LEGEND
TOWN OF LANSING TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088
NYS CERTIFICATE #
0021642, 0020288, 0019903,
0019905, 0020336



NYS EXP.:	12/31/2028
Date	FEBRUARY, 2026
Scale	AS SHOWN
Sheet Number	P001
Project Number	677.006.001

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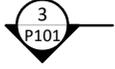
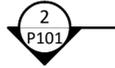
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Checked by: NKE/RAJ Drawn by: JLL In Charge of: EJJ



SEE NOTE 1 (TYP.)

4" DIA. PRIMARY DRAIN LINE
DN TO 4'-0" AFF TO BOT. OF PIPE.
TERMINATE WITH S.S. RODENT SCREEN



CONCRETE SPASH BLOCK
PROVIDED BY CONTRACT 1A (TYP.)

1'-0" (TYP.)

4" DIA. SECONDARY DRAIN LINE
DN TO 4'-0" AFF TO BOT. OF PIPE.
TERMINATE WITH S.S. RODENT SCREEN

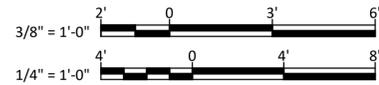
MECHANICAL EQUIPMENT,
REFER TO M-SHEETS (TYP.)

EXISTING DRAINAGE TO REMAIN

4" PRIMARY ROOF DRAIN PROVIDED
BY CONTRACT 1A. ALL ROOF DRAIN
PIPING BY CONTRACT 1B

CLEAN OUT (TYP.)

4" SECONDARY ROOF DRAIN
PROVIDED BY CONTRACT 1A. ALL
ROOF DRAIN PIPING BY CONTRACT 1B



1 ROOF DRAINAGE PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ROOF DRAIN PIPING SHALL HAVE A MINIMUM SLOPE OF 1/8 INCH PER FOOT IN THE DIRECTION OF FLOW.
2. ROOF DRAIN PIPING SHALL BE SCHEDULE 40 PVC.

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT RAW WATER PUMP STATION ELECTRICAL UPGRADES

ROOF DRAINAGE PLAN AND SECTIONS

TOMPKINS COUNTY, NEW YORK

TOWN OF LANSING

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088



NYS CERTIFICATE #
0021642, 0020288, 0019903,
0019905, 0020336



NYS EXP.: 12/31/2028

Date

FEBRUARY, 2026

Scale

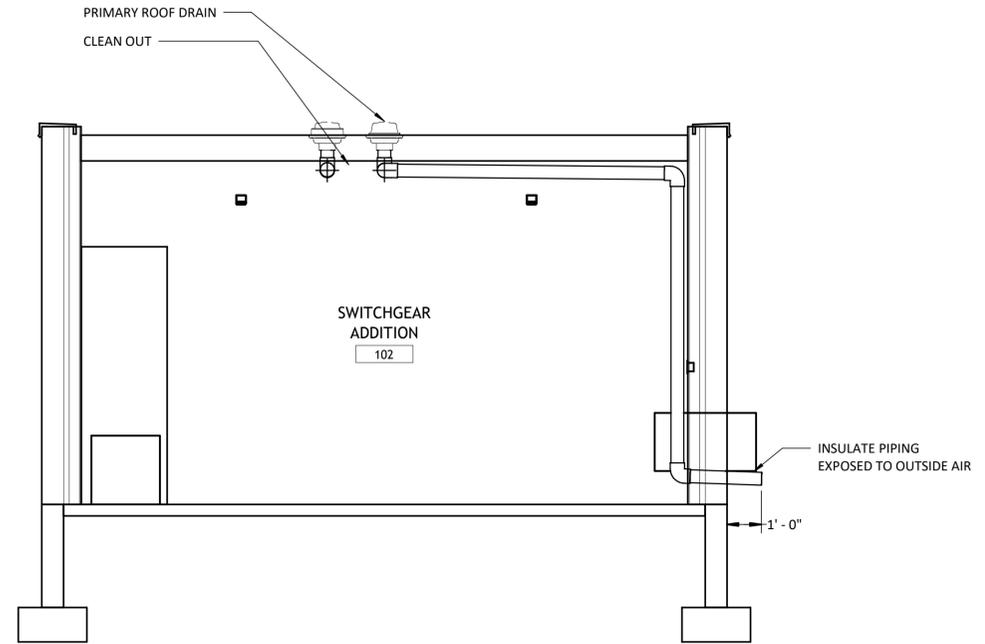
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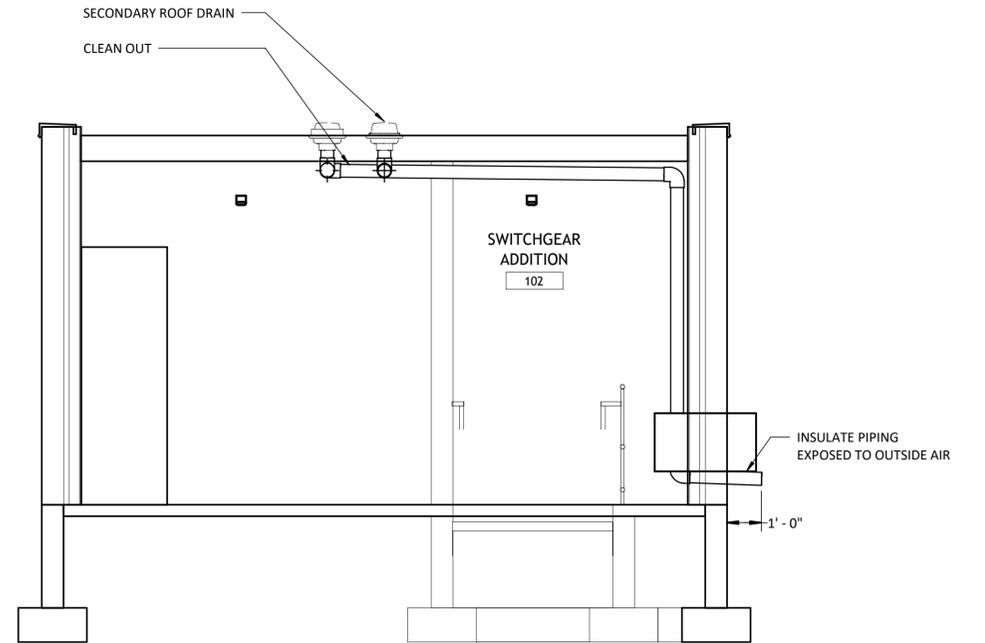
P101

Project Number

677.006.001



2 PRIMARY ROOF DRAINAGE SECTION
SCALE: 3/8" = 1'-0"



3 SECONDARY ROOF DRAINAGE SECTION
SCALE: 3/8" = 1'-0"

GENERAL NOTES

DELINEATION OF WORK
CONTRACT 1A: GENERAL CONSTRUCTION
CONTRACT 1B: MECHANICAL CONSTRUCTION
CONTRACT 1C: ELECTRICAL CONSTRUCTION

SYMBOLS AND ABBREVIATIONS

1. THIS SHEET CONTAINS SYMBOLS AND ABBREVIATIONS TYPICALLY SHOWN ON ELECTRICAL DRAWINGS AND SCHEMATICS. THIS CONTRACT DRAWING SET MAY NOT CONTAIN ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET.

UTILITY

1. ELECTRICAL UTILITY COMPANY WHICH SERVES SITE IS [UTILITY] (UTILITY). COORDINATE ALL WORK WITH UTILITY. REFERENCE [ESR/ESO/WORK ORDER] NUMBER [NUMBER]. UTILITY CONTACT INFORMATION WILL BE PROVIDED UPON REQUEST.

EXISTING DISTRIBUTION VOLTAGE AND PHASING

1. EXISTING VOLTAGE AND PHASING IS BASED ON CURSORY FIELD OBSERVATIONS AND EXISTING CONSTRUCTION DRAWINGS. THEY HAVE NOT BEEN MEASURED OR OTHERWISE CONFIRMED.
2. CONTRACTOR SHALL CONFIRM ALL VOLTAGES AND PHASING ON SITE TO ENSURE THEY MATCH THIS CONSTRUCTION DRAWING SET. THIS SHALL OCCUR PRIOR TO SUBMITTALS.

PERMITS AND INSPECTIONS

1. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NEC, AND STATE AND LOCAL GOVERNING REGULATIONS.

SCOPE

1. UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
2. ALL DISCONNECTS REQUIRED BY CODE MAY NOT BE SHOWN. CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS AND OVERCURRENT PROTECTIVE DEVICES.
3. ALL EQUIPMENT AND MATERIAL SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
4. PROVIDE ELECTRICAL POWER WIRING TO ALL MECHANICAL EQUIPMENT.

COORDINATION OF WORK

1. THE CONTRACTOR SHALL COORDINATE AND VERIFY THAT WORKING AND DEDICATED EQUIPMENT SPACE REQUIREMENTS ARE MET PER NEC AND AHJ.
2. FIELD LOCATE ALL CORE DRILL LOCATIONS.
3. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS A BUILDING UTILITIES.
4. BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO ENSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
5. COORDINATION OF POSSIBLE SYSTEM SHUT-DOWNS AND WORK AREAS NEED TO BE COORDINATED WITH THE OWNER.
6. VERIFY RECEPTACLE, SWITCH, & COVER PLATE COLORS WITH OWNER.
7. TURN OVER TO THE OWNER ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.

DEFINITIONS

1. THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AS REFERENCED IN THE BUILDING CODE OF NEW YORK STATE.
2. THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
3. THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".
4. THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".

PLANS

1. ELECTRICAL PLANS, DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
2. ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCES AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST; THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.

METHODS

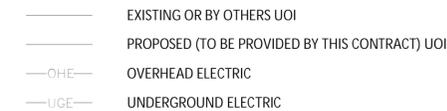
1. ALL EXTERIOR CONDUITS HAVE DUCT SEAL INSTALLED AT ALL ENDS, BOXES, WEATHERHEADS, PENETRATIONS TO INTERIOR SPACES, ETC.
2. DUCT BANKS SHALL NOT BE ROUTED DIRECTLY ABOVE OR BELOW EXISTING/PROPOSED UTILITIES EXCEPT WHEN CROSSING. WHERE CROSSING EXISTING OR PROPOSED UTILITIES DUCT BANKS SHALL CROSS AT 90 DEGREE ANGLES. ALL CONDUIT SYSTEMS EXPOSED TO TEMPERATURE DIFFERENTIALS, IN POTENTIAL CONDENSING ATMOSPHERES, EXTERIOR INSTALLED, OR INSTALLED UNDERGROUND SHALL HAVE PROVISIONS FOR DRAINING WATER OUT OF CONDUIT SYSTEMS. PROVIDE DRAIN IN CONDUIT SYSTEMS AT LOW POINTS. LOW POINT SHALL NOT BE AT EQUIPMENT OR DEVICE. A BREATHER SHALL BE PROVIDED AT THE HIGH POINT OF THE SYSTEM.

UNDERGROUND UTILITIES

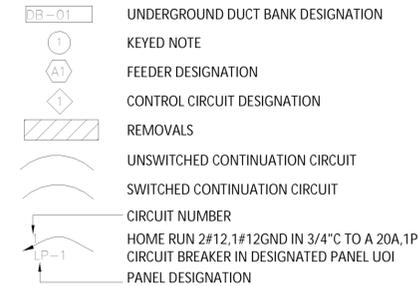
1. UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA SHOWN ON THESE DRAWINGS.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE BEGINNING WORK & SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM HIS/HER WORK.
3. THE CONTRACTOR SHALL NOTIFY "DIG SAFELY NEW YORK" 1-800-962-7962 PRIOR TO ANY EXCAVATION.

SYMBOLS

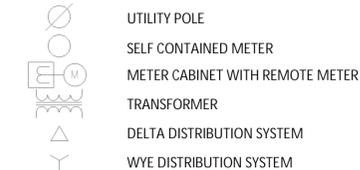
LINEWEIGHT AND LINETYPE DESIGNATIONS



BASIC DRAWING SYMBOLS



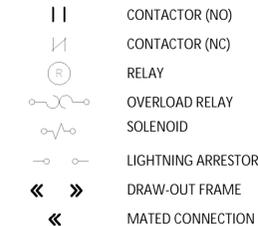
SERVICE & DISTRIBUTION



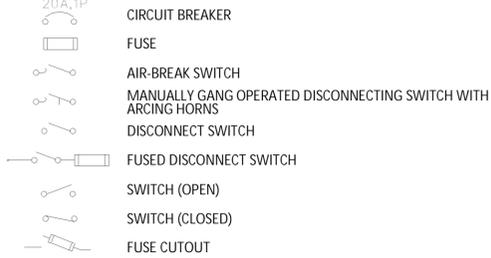
WIRING METHODS



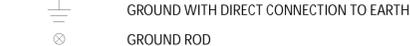
WIRING DIAGRAM



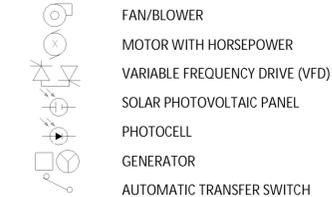
SWITCHES AND PROTECTIVE DEVICES



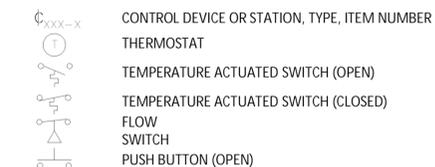
GROUNDING



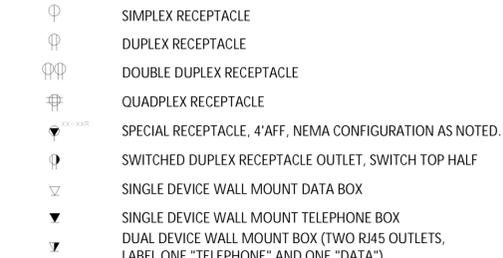
EQUIPMENT



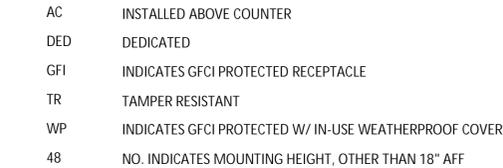
CONTROL & INSTRUMENTATION DEVICES



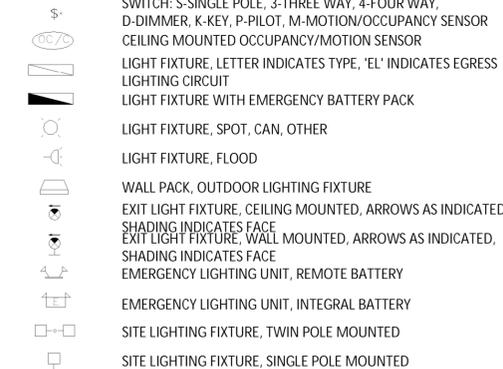
RECEPTACLES & DATA DEVICES



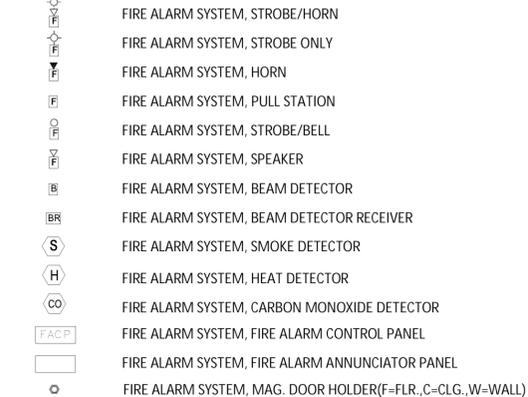
RECEPTACLES & DATA DEVICES - SUBSCRIPT DESIGNATIONS



LIGHTING



FIRE PROTECTION



ABBREVIATIONS

Table of abbreviations including symbols and their corresponding terms: PHASE, AMPERE, ABOVE COUNTER, AIR COOLED CONDENSING UNIT, AMP FRAME, ABOVE FINISHED FLOOR, ABOVE FINISHED GRADE, AUTHORITY HAVING JURISDICTION, AIR HANDLING UNIT, ANNUNCIATOR, AMERICAN NATIONAL STANDARDS INSTITUTE, AMP TRIP, AUTOMATIC TRANSFER SWITCH, AUDIO/VISUAL, AMERICAN WIRE GAUGE, ACROSS THE LINE, BOILER, BATTERY, BENEATH FINISHED GRADE, BUILDING, BANDWIDTH, CONDUIT, CIRCUIT BREAKER, COMPACT FLUORESCENT, CHARACTERISTICS, CIRCUIT, CURRENT LIMITING, CEILING, COMBINATION STARTER, COMMUNICATIONS, CONCRETE, CONSTRUCTION, CONTRACT, CONTROL PANEL, CURRENT TRANSFORMER, COPPER, DUCT BANK, DECIBELS, DEGREE, DISCONNECT, DIVISION, DISTRIBUTION PANEL, DEPARTMENT OF TRANSPORTATION, DISCONNECT SWITCH, DRAWING, EACH, ELECTRICAL CONTRACTOR, EXHAUST FAN, ELEVATOR, EMERGENCY, ELECTROMAGNETIC INTERFERENCE, EMERGENCY POWER SUPPLY, EMERGENCY POWER SUPPLY SYSTEM, EQUIPMENT, ET CETERA, ELECTRIC UNIT HEATER, EXTERIOR, FIRE ALARM, FIRE ALARM ANNUNCIATION PANEL, FIRE ALARM CONTROL PANEL, FURNISHED BY, FLUORESCENT, FULL LOAD AMPACITY, FLOOR, FLUORESCENT, FAN SHUT-DOWN RELAY, FEET, FURNISH, GENERAL CONTRACTOR, GROUND FAULT CIRCUIT INTERRUPTER, GROUND, HAND HOLE, HIGH INTENSITY DISCHARGE, HAND-OFF-AUTO SELECTOR SWITCH, HORSEPOWER, HIGH PRESSURE SODIUM, HOT WATER HEATER, HERTZ, INSTALLED BY, INCHES, INDICATED, INSTALLED, JUNCTION BOX, 1000 AMPERE INTERRUPTING CAPACITY, 1000 CIRCULAR MILS, KILOWATT, LIQUID CRYSTAL DISPLAY, LIGHT EMITTING DIODE, LOCATION, LIGHTING PANEL, LOCKED ROTOR AMPS, LEVEL SENSOR, LIGHTS, MILLIAMPER, MANUAL STARTER, MAGNETIC, MAXIMUM, MECHANICAL CONTRACTOR, MINIMUM CIRCUIT AMPACITY, MAIN CIRCUIT BREAKER, MOTOR CONTROL CENTER, MAIN CONTROL PANEL, MAIN DISTRIBUTION PANEL, MAIN DISCONNECT SWITCH, MANUFACTURER, METAL HALIDE, MOUNTING HEIGHT, MINIMUM, MOTOR STARTER, MOUNTED, MANUAL TRANSFER SWITCH, NEUTRAL, NORMALLY CLOSED, NATIONAL ELECTRIC CODE, NATIONAL FIRE PROTECTION ASSOCIATION, NOT IN CONTACT, NIGHT LIGHT, NORMALLY OPEN, POLE, PUMP, PUBLIC ADDRESS, PULL BOX, PENDANT, PHOTO CELL, PHASE, PANEL, POWER PANEL, PRIMARY, PROVIDED (FURNISHED AND INSTALLED), POUNDS PER SQUARE INCH, POTENTIAL TRANSFORMER, PRESSURE TRANSDUCER, PACKAGED TERMINAL AIR CONDITIONING, POLYVINYL CHLORIDE, PWR, QUANTITY, RECEPTACLE, REQUIRED, RIGID GALVANIZED STEEL, RUNNING LOAD AMPS, ROOM, RAPID START, RADIO TELEMETRY UNIT, REMOTE TERMINAL UNIT, REDUCED VOLTAGE DRIVE, SECONDARY, SPECIFICATION, SQUARE, SOFT START, SHUNT TRIP, SHIELDED TWISTED PAIR, SUPPLIED, SURFACE, SWITCH, SWITCHBOARD, SYMMETRICAL, TELEPHONE, THERMOSTAT, TELEVISION, TYPICAL, UNDERGROUND, UNDERGROUND ELECTRIC, UNIT HEATER, UNDERWRITER'S LABORATORIES, UNLESS OTHERWISE INDICATED, UNINTERRUPTIBLE POWER SUPPLY, VOLTAGE, UNSHIELDED TWISTED PAIR, VOLT AMPERES, VARIABLE FREQUENCY DRIVE, WIRE, WITH, WITHOUT, WITHSTAND CURRENT RATING, WEATHERPROOF, WELL PUMP, WATERTIGHT, TRANSFORMER.

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Table with 2 columns: REVISIONS, Description of revision.

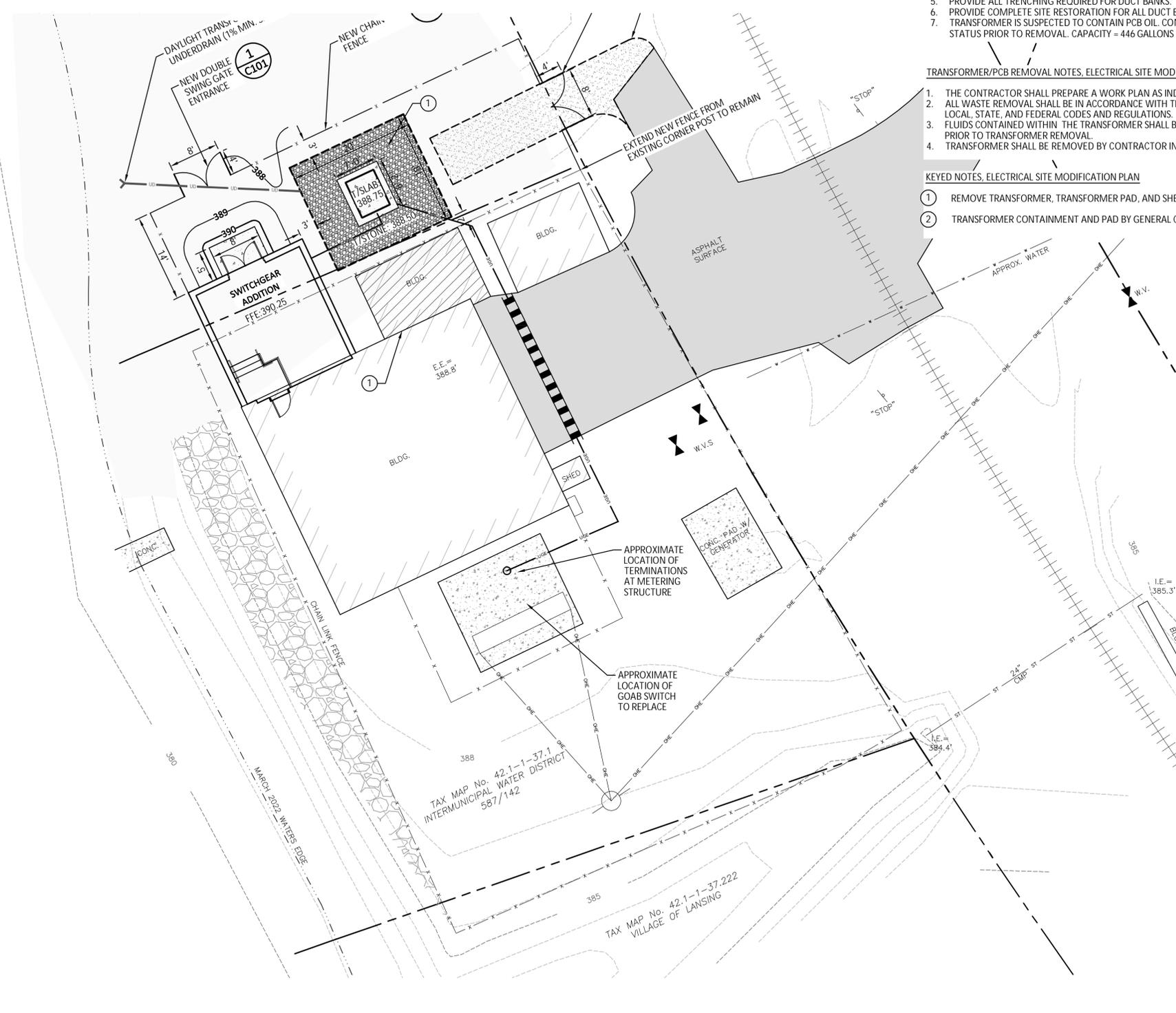
SOUTHERN CALIFORNIA LAKE INTERMUNICIPAL WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES
ELECTRICAL NOTES, ABBREVIATIONS AND LEGEND
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443 Electronics Parkway
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 Checked by: TWB Drawn by: TGB Designed by: JMC In charge of: JMC



**ELECTRICAL SITE
 MODIFICATION PLAN**
 SCALE: 1" = 10'

- GENERAL NOTES, ELECTRICAL SITE MODIFICATION PLAN**
1. NOT ALL DUCT BANKS MAY BE SHOWN. PROVIDE ALL DUCT BANKS IN ACCORDANCE WITH APPLICABLE PLANS AND DETAILS.
 2. DUCT BANKS SHALL NOT BE LOCATED ABOVE OR BELOW OTHER SYSTEMS EXCEPT WHERE CROSSING. PROVIDE CROSSINGS AS NEAR TO PERPENDICULAR AS FEASIBLE.
 3. DUCT BANKS AND STRUCTURES SHOWN ARE APPROXIMATE OR ANTICIPATED LOCATIONS. FIELD VERIFY ALL LOCATIONS AND ROUTE DUCT BANKS AS REQUIRED PER INTENT OF PLANS.
 4. DUCT BANKS SHALL BE CONCRETE WHERE LOCATED BENEATH OR WITHIN 5' OF PAVED ROADS, ACCESS ROADS, PARKING LOTS, OR OTHER DRIVE AREAS.
 5. PROVIDE ALL TRENCHING REQUIRED FOR DUCT BANKS.
 6. PROVIDE COMPLETE SITE RESTORATION FOR ALL DUCT BANKS.
 7. TRANSFORMER IS SUSPECTED TO CONTAIN PCB OIL. CONTRACTOR SHALL SAMPLE OIL TO DETERMINE STATUS PRIOR TO REMOVAL. CAPACITY = 446 GALLONS (LABELED).

- TRANSFORMER/PCB REMOVAL NOTES, ELECTRICAL SITE MODIFICATION PLAN**
1. THE CONTRACTOR SHALL PREPARE A WORK PLAN AS INDICATED IN SECTION 02 84 33.01.
 2. ALL WASTE REMOVAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
 3. FLUIDS CONTAINED WITHIN THE TRANSFORMER SHALL BE CHARACTERIZED BY THE CONTRACTOR PRIOR TO TRANSFORMER REMOVAL.
 4. TRANSFORMER SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH SECTION 02 84 33.01.

- KEYED NOTES, ELECTRICAL SITE MODIFICATION PLAN**
- ① REMOVE TRANSFORMER, TRANSFORMER PAD, AND SHED AS COORDINATED WITH OWNER.
 - ② TRANSFORMER CONTAINMENT AND PAD BY GENERAL CONTRACTOR. PROVIDE COORDINATION.

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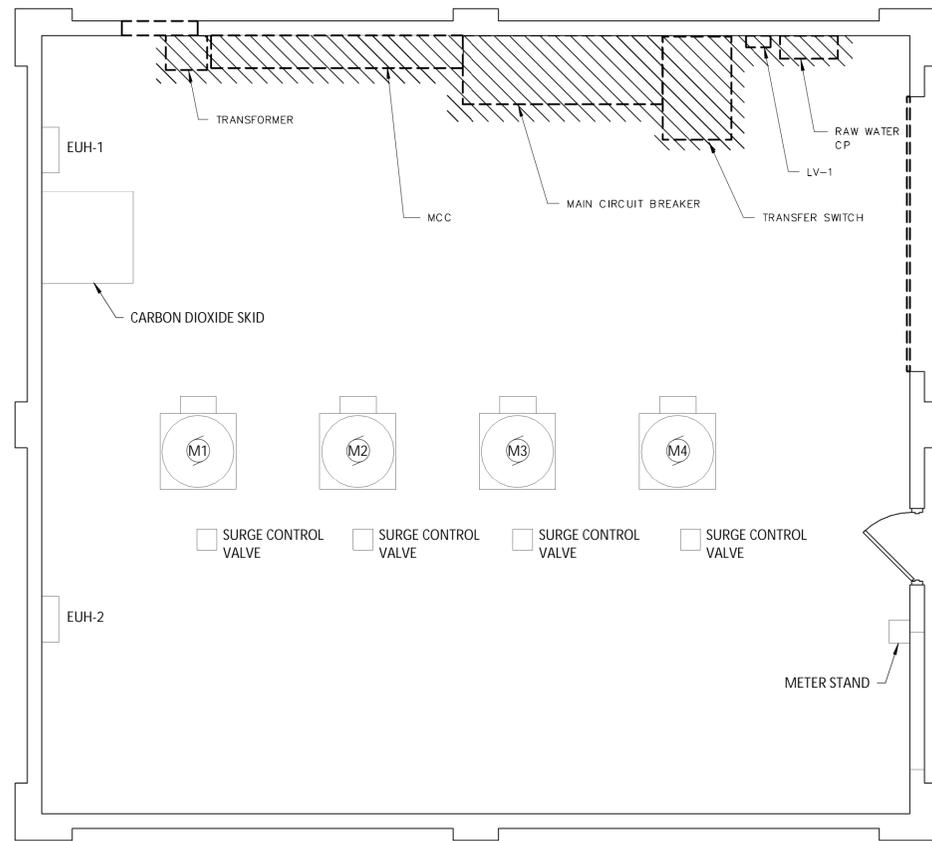
REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
 RAW WATER PUMP STATION ELECTRICAL UPGRADES
ELECTRICAL SITE MODIFICATION PLAN
 TOWN OF ITHACA TOMPKINS COUNTY NEW YORK

Barton & Loguidice
 443 Electronics Parkway
 Liverpool, NY 13088
 NYS CERTIFICATE #
 0021642, 00201668, 0019903,
 0019905, 0020356

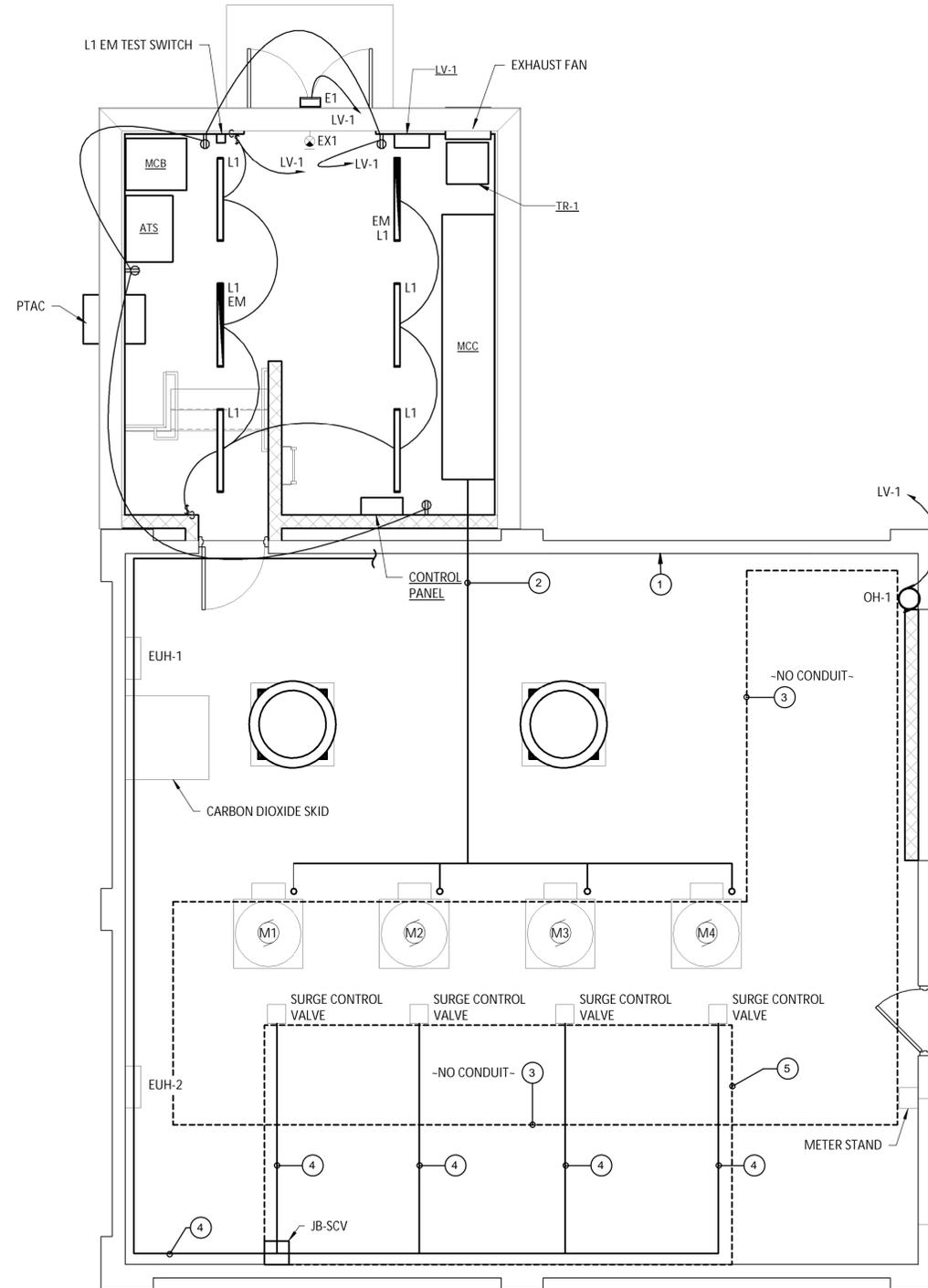


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PUMP STATION DEMOLITION PLAN

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



PUMP STATION MODIFICATION PLAN

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

GENERAL NOTES, PUMP STATION MODIFICATION PLAN

1. TYPE L1 LIGHTS TO BE INSTALLED APPROXIMATELY 9' AFF.
2. ALL EXISTING EQUIPMENT LOCATIONS ARE APPROXIMATE AND NOT ALL EXISTING EQUIPMENT LOCATIONS MAY BE SHOWN. CONTRACTOR TO FIELD VERIFY.

KEYED NOTES, PUMP STATION MODIFICATION SITE PLAN

- ① SEE SHEET E601 FOR ANTICIPATED TIE IN LOCATION FOR GENERATOR CIRCUITS. CONDUIT SHALL BE REUSED TO EXTENT FEASIBLE. CONTRACTOR TO VERIFY CONDUIT SIZE PRIOR TO CONSTRUCTION.
- ② ANTICIPATED ROUTING OF POWER TO PUMPS. CONDUIT TO BE TIGHT TO CEILING EXCEPT WHERE DROPPING TO PUMP JUNCTION BOX. PROVIDE ALL REQUIRED SUPPORTS.
- ③ NO CONDUIT IN THIS AREA EXCEPT AS INDICATED. AREA SHALL BE CLEAR TO ALLOW REMOVAL OF PUMPS WITH MOVING BEAM TROLLEY. COORDINATE LOCATION AND ROUTING OF ALL CONDUIT WITH OWNER.
- ④ ANTICIPATED ROUTING OF CIRCUITING TO SURGE CONTROL VALVES. COORDINATE ROUTING IN FIELD WITH OWNER.
- ⑤ CONDUIT IN BOXED AREA SHALL BE PVC COATED RGS. PROVIDE FRP SUPPORTS FOR CONDUIT.

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REVISIONS

NO.	DESCRIPTION

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
 RAW WATER PUMP STATION ELECTRICAL UPGRADES
PUMP STATION DEMOLITION AND MODIFICATION PLAN
 TOWN OF ITHACA TOMPKINS COUNTY, NEW YORK

Barton & Loguidice
 443 Electronics Parkway
 Liverpool, NY 13088
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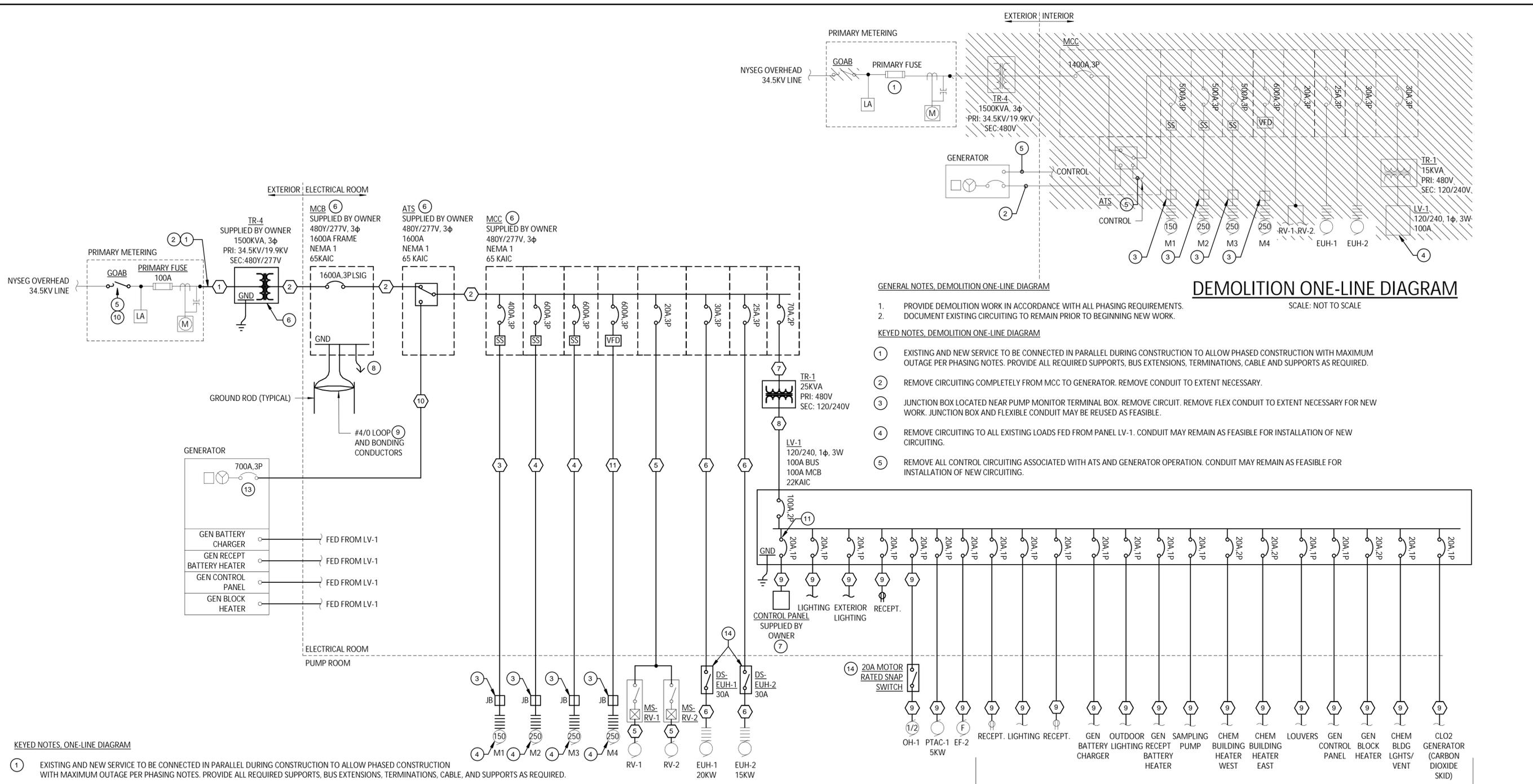
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KEYED NOTES, ONE-LINE DIAGRAM

- 1 EXISTING AND NEW SERVICE TO BE CONNECTED IN PARALLEL DURING CONSTRUCTION TO ALLOW PHASED CONSTRUCTION WITH MAXIMUM OUTAGE PER PHASING NOTES. PROVIDE ALL REQUIRED SUPPORTS, BUS EXTENSIONS, TERMINATIONS, CABLE, AND SUPPORTS AS REQUIRED.
- 2 CONTRACTOR MAY SAW CUT CONCRETE EQUIPMENT PAD FOR INSTALLATION OF CONDUIT OR MAY INSTALL SUPPORTS TO ALLOW CONDUIT TO BE INSTALLED ABOVE GROUND IN SWITCH YARD. COORDINATE DETAILS WITH OWNER AND ENGINEER PRIOR TO INSTALLATION. PROVIDE ALL RESTORATION.
- 3 UTILIZE EXISTING JUNCTION BOX OR PROVIDE NEW. JUNCTION BOX TO TRANSITION FROM TWO CONDUITS TO ONE CONDUIT FOR ENTRANCE TO MOTOR TERMINAL BOX.
- 4 PROVIDE AS REQUIRED TO CONNECT MOTOR TERMINAL BOX.
- 5 PROVIDE GROUND MAT FOR SWITCH OPERATOR IN ACCORDANCE WITH DETAIL.
- 6 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR UNLOADING, INSTALLATION, AND TESTING.
- 7 COORDINATE INSTALLATION WITH OWNER. PROVIDE ALL REQUIRED SUPPORTS.
- 8 BOND TO EXISTING GROUNDING ELECTRODES. SEE DETAIL.
- 9 PROVIDE A #4/0 BURIED COPPER GROUND RING AROUND THREE SIDES OF THE NEW ELECTRICAL ROOM. PROVIDE GROUND ROD AT OPPOSING CORNERS.
- 10 CONTRACTOR MAY SAW CUT CONCRETE EQUIPMENT PAD FOR INSTALLATION OF CONDUIT OR MAY INSTALL SUPPORTS TO ALLOW CONDUIT TO BE INSTALLED ABOVE GROUND IN SWITCH YARD. COORDINATE DETAILS WITH OWNER AND ENGINEER PRIOR TO INSTALLATION. PROVIDE ALL RESTORATION.
- 11 COORDINATE BREAKER AND CIRCUIT TO EXISTING EQUIPMENT. EXISTING CONDUIT MAY BE REUSED WHERE FEASIBLE.
- 12 CONNECT NEW CIRCUIT TO EXISTING EQUIPMENT. EXISTING CONDUIT MAY BE REUSED WHERE FEASIBLE.
- 13 VERIFY BREAKER RATING PRIOR TO INSTALLING CIRCUIT.
- 14 INSTALL DISCONNECT SWITCH INSIDE EQUIPMENT.

ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

GENERAL NOTES, DEMOLITION ONE-LINE DIAGRAM

- 1. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH ALL PHASING REQUIREMENTS.
- 2. DOCUMENT EXISTING CIRCUITING TO REMAIN PRIOR TO BEGINNING NEW WORK.

KEYED NOTES, DEMOLITION ONE-LINE DIAGRAM

- 1 EXISTING AND NEW SERVICE TO BE CONNECTED IN PARALLEL DURING CONSTRUCTION TO ALLOW PHASED CONSTRUCTION WITH MAXIMUM OUTAGE PER PHASING NOTES. PROVIDE ALL REQUIRED SUPPORTS, BUS EXTENSIONS, TERMINATIONS, CABLE AND SUPPORTS AS REQUIRED.
- 2 REMOVE CIRCUITING COMPLETELY FROM MCC TO GENERATOR. REMOVE CONDUIT TO EXTENT NECESSARY.
- 3 JUNCTION BOX LOCATED NEAR PUMP MONITOR TERMINAL BOX. REMOVE CIRCUIT. REMOVE FLEX CONDUIT TO EXTENT NECESSARY FOR NEW WORK. JUNCTION BOX AND FLEXIBLE CONDUIT MAY BE REUSED AS FEASIBLE.
- 4 REMOVE CIRCUITING TO ALL EXISTING LOADS FED FROM PANEL LV-1. CONDUIT MAY REMAIN AS FEASIBLE FOR INSTALLATION OF NEW CIRCUITING.
- 5 REMOVE ALL CONTROL CIRCUITING ASSOCIATED WITH ATS AND GENERATOR OPERATION. CONDUIT MAY REMAIN AS FEASIBLE FOR INSTALLATION OF NEW CIRCUITING.

DEMOLITION ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

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SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

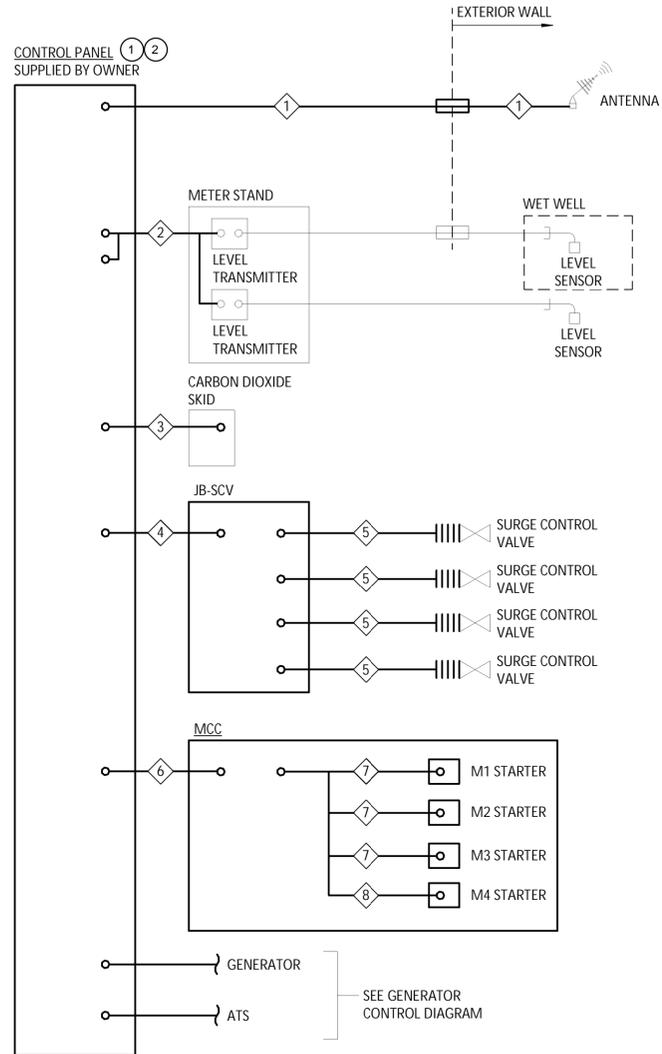
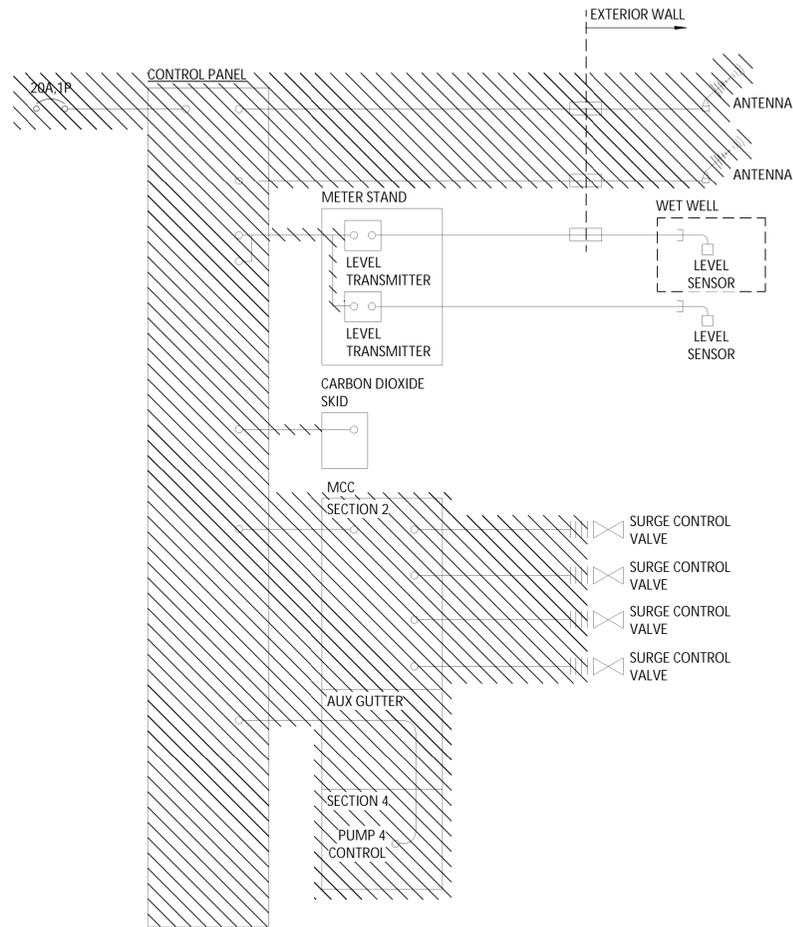
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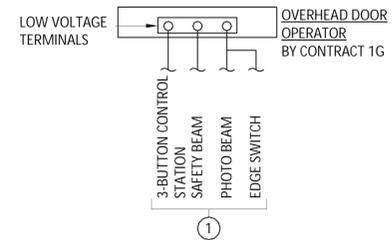


GENERAL NOTES, CONTROL DIAGRAM

1. CIRCUITING SHOWN FOR BID PURPOSES. COORDINATE WITH ACTUAL EQUIPMENT AND PROVIDE AS REQUIRED.

KEYED NOTES, CONTROL DIAGRAM

1. INSTALL PANEL AS COORDINATED WITH OWNER. PROVIDE TERMINATIONS AS COORDINATED WITH OWNER.
2. OWNER TO PROVIDE ALL PROGRAMMING.



GENERAL NOTES, CONTROL WIRING - OVERHEAD DOOR

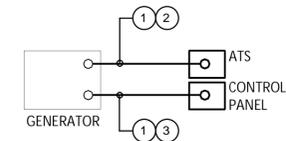
1. CIRCUITING, CIRCUIT BREAKER, DISCONNECT, AND LOW VOLTAGE WIRING SHOWN AS THE BASIS OF DESIGN. COORDINATE REQUIREMENTS WITH GENERAL CONTRACT PRIOR TO INSTALLATION.
2. ALL CIRCUITING SHALL BE IN CONDUIT.

KEYED NOTES, CONTROL WIRING - OVERHEAD DOOR

1. PROVIDE CONDUIT FOR LOW VOLTAGE DEVICES SUPPLIED AND WIRED BY CONTRACT 1A.

CONTROL WIRING - OVERHEAD DOOR

SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

KEYED NOTES, GENERATOR CONTROL DIAGRAM

1. VERIFY EXISTING CIRCUITING PRIOR TO REMOVAL. PROVIDE NEW CIRCUITING TO MATCH EXISTING, REMOVED CIRCUIT. EXISTING CONDUIT MAY BE REUSED WHERE FEASIBLE. PROVIDE ALL NEW CONDUIT REQUIRED.
2. FOR BID PURPOSES, ASSUME (4)#14 IN 1" C FOR GENERATOR RUN.
3. FOR BID PURPOSES, ASSUME (4)#14 IN 1" C FOR FAULT AND FUEL ALARM.

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
RAW WATER PUMP STATION ELECTRICAL UPGRADES

ELECTRICAL DIAGRAMS 2

TOMPKINS COUNTY, NEW YORK

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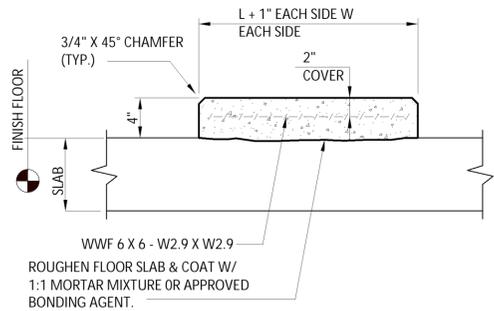
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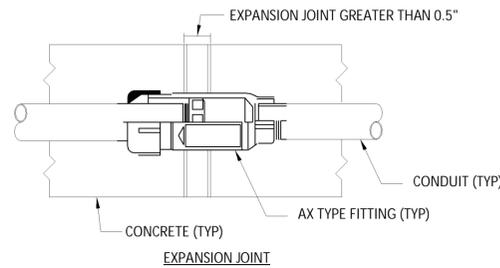
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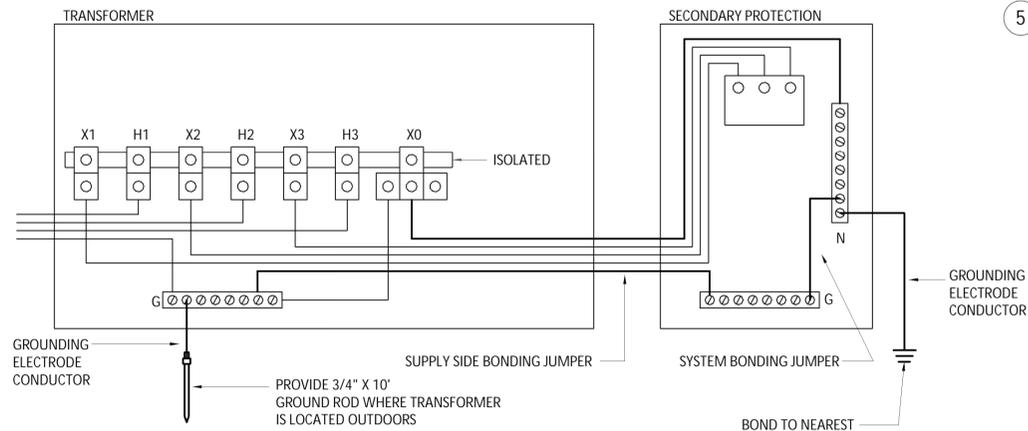
GENERAL NOTES, EQUIPMENT PAD DETAIL
 1. L = LENGTH OF EQUIPMENT BASE. W = WIDTH OF EQUIPMENT BASE.
 T = PAD THICKNESS.
 2. ANCHOR EQUIPMENT TO PAD AS DIRECTED BY EQUIPMENT MANUFACTURER.

10 EQUIPMENT PAD - ON SLAB
 NOT TO SCALE



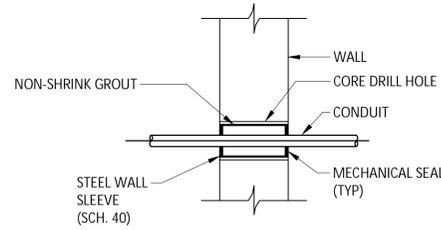
GENERAL NOTES, EXPANSION FITTING DETAIL
 1. PROVIDE AN EXPANSION FITTING AT ALL EXPANSION JOINTS GREATER THAN 0.5" AND AS OTHERWISE INDICATED.
 2. PROVIDE AN EXPANSION AT ALL RISERS FROM GRADE.
 3. AX FITTING SHALL BE MODEL AX AS MANUFACTURED BY O-Z CEDNEY OR APPROVED EQUAL.
 4. PROVIDE ALL REQUIRED BONDING JUMPERS, BOTH INTERNAL AND EXTERNAL.

9 EXPANSION FITTING DETAIL
 NOT TO SCALE

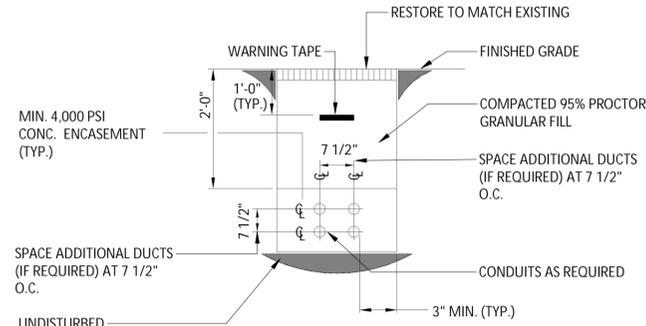


GENERAL NOTES TRANSFORMER GROUNDING DETAIL
 1. SUPPLY SIDE BONDING JUMPER, SYSTEM BONDING JUMPER, AND GROUNDING ELECTRODE CONDUCTOR TO BE PROVIDED AND SIZED IN ACCORDANCE WITH NEC TABLE 250.66 UNLESS OTHERWISE INDICATED.

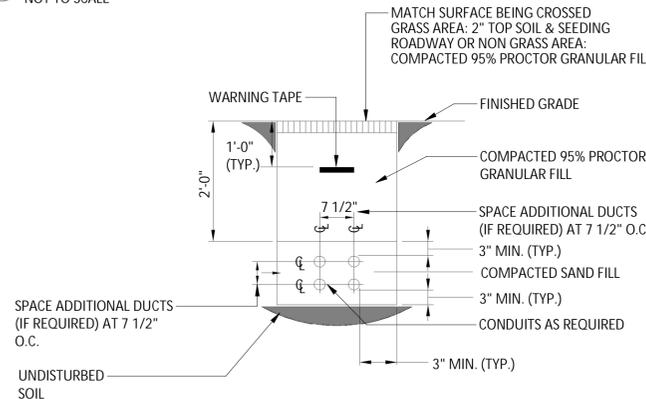
8 GROUNDING TRANSFORMER SECONDARY
 NOT TO SCALE



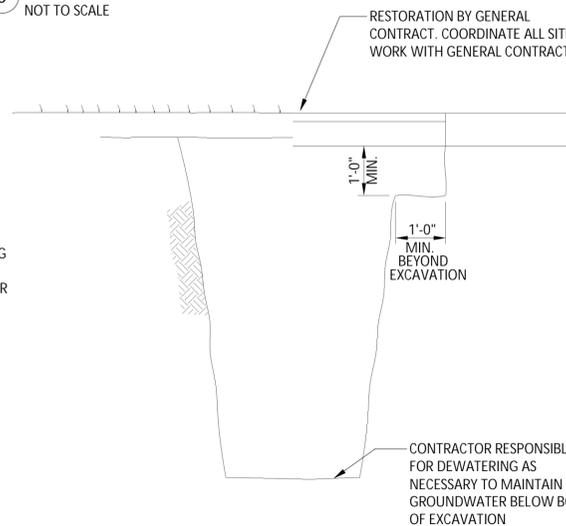
7 WALL PENETRATION DETAIL
 NOT TO SCALE



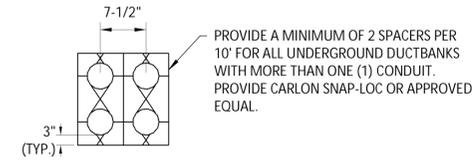
6 DUCT BANK CONCRETE
 NOT TO SCALE



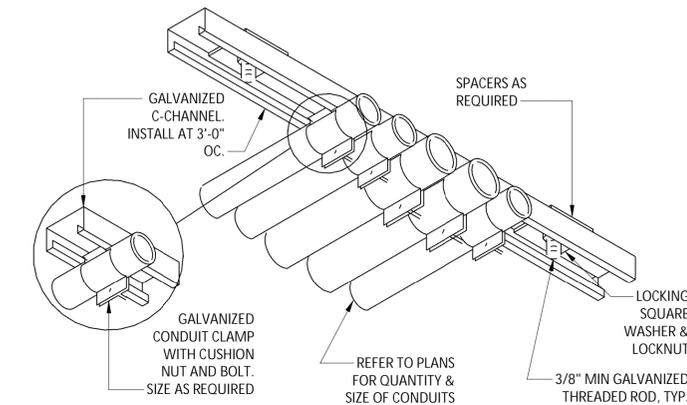
5 DUCT BANK
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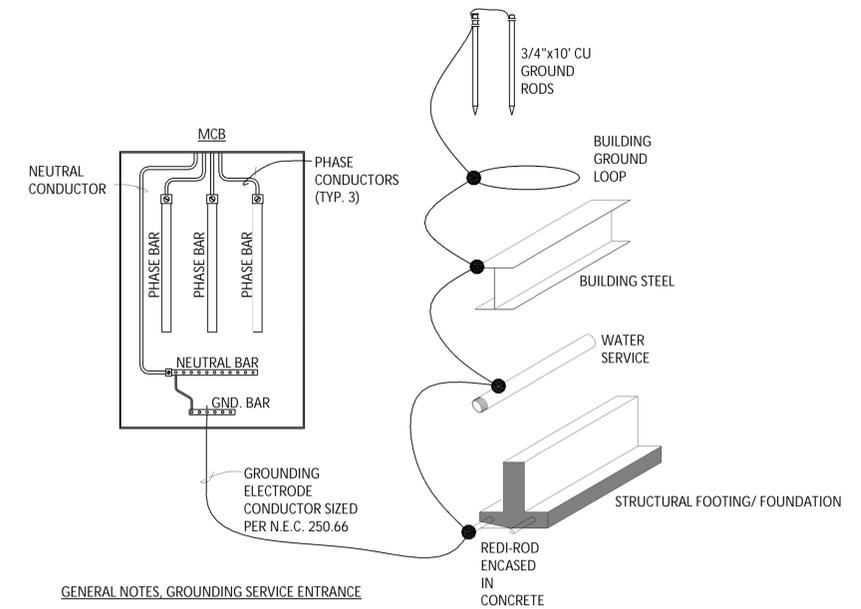
4 TRENCH
 NOT TO SCALE



3 CONDUIT SPACER DETAIL
 NOT TO SCALE



2 CONDUIT - SUPPORT DETAIL
 NOT TO SCALE



GENERAL NOTES, GROUNDING SERVICE ENTRANCE

- BOND ALL NORMAL AND EMERGENCY EQUIPMENT TO GROUND RING.
- BOND ALL EQUIPMENT TO GROUND AS REQUIRED BY MANUFACTURER.
- NOT ALL GROUNDING SHOWN. PROVIDE ADDITIONAL GROUNDING AS REQUIRED PER SPECIFICATIONS AND NEC.
- ALL GROUND CONDUCTORS SHALL BE #4/0 COPPER, U.O.I.

1 GROUNDING SERVICE ENTRANCE
 NOT TO SCALE

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NO.	REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
 RAW WATER PUMP STATION ELECTRICAL UPGRADES

TOWN OF ITHACA
 TOMPKINS COUNTY, NEW YORK

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CONTROL CIRCUIT SCHEDULE						
CIRCUIT ◇	CONDUIT DIAMETER	CIRCUIT				REMARKS
		TYPE	QTY	PAIRS (STP ONLY)	GAUGE	
1	1-1/2"	COAX	-	-	-	
2	1-3/4"	STP	2	1	18	
3	1"	STP	8	1	18	
4	1-1/4"	IND.	20	-	14	
5	3/4"	IND.	4	-	14	
6	1"	IND.	16	-	14	
		STP	2	1	18	
7	-	IND.	4	-	14	
8	-	IND.	4	-	14	
		STP	2	1	18	

STANDARD TYPES

STP - SHIELDED TWISTED PAIR WITH OVERALL INSULATION
 FACT. - FACTORY CABLE SUPPLIED WITH THE EQUIPMENT
 IND. - INDIVIDUALLY INSULATED CONDUCTOR (THWN-2, COPPER)
 ENET. - CATEGORY 5E ETHERNET CABLE

GENERAL NOTES

- STP QUANTITY TO INDICATED NUMBER OF CABLES.
- STP PAIRS TO INDICATE NUMBER OF PAIRS TO BE INCLUDED IN EACH CABLE.

CONDUIT SCHEDULE			
BUILDING OR AREA	AREA DESCRIPTION	CONDUIT TYPE	REMARKS
GENERAL (ALL AREAS)	ELECTRICAL ROOM INTERIOR	EMT	
	PUMP ROOM INTERIOR	RGS	3
	EXTERIOR EXPOSED	RGS	
	RISERS FROM BELOW GRADE	RGS	
	IN SLAB/CONCRETE ENCASEMENT	SCHEDULE 40 PVC	
	SAND-FILL DUCT BANK	SCHEDULE 80 PVC	

GENERAL NOTES, CONDUIT SCHEDULE

- CONDUIT TYPES ARE UNLESS OTHERWISE INDICATED OR REQUIRED BY EQUIPMENT OR CABLE MANUFACTURERS, PROVIDE AS REQUIRED.
- MC CABLE IS ALLOWABLE FOR BRANCH CIRCUITING WHERE CIRCUIT IS CONCEALED.
- PROVIDE PVC COATED RGS WHEREVER INDICATED ON PLANS.

CIRCUIT SCHEDULE			
DESIGNATION ◇	CONDUCTORS (SETS-QUANTITY#SIZE)	CONDUIT (SETS-DIAMETER)	REMARKS
1	(3)#2, (1)#2G	5"	1
2	4 SETS OF (4)#00, (1)#4/0G	5"	
3	2 SETS OF (3)#1, (1)#1G	2"	3
4	2 SETS OF (3)#4/0, (1)#4/0G	2-1/2"	3
5	(3)#12, (1)#12G	3/4"	
6	(3)#10, (1)#10G	3/4"	
7	(2)#4, (1)#8G	1-1/2"	
8	(3)#2, (1)#4G	1-1/2"	
9	(2)#12, (1)#12G	3/4"	
10	2 SETS OF (4)#00, (1)#4/0G	5"	
11	2 SETS OF (3)#4/0, (1)#4/0G	4"	2,3

CIRCUIT SCHEDULE REMARKS:

- 35KV, 133% MV 105
- VFD - PROVIDE AS 1000V, SHIELDED VFD CABLE.
- COORDINATE CIRCUIT WITH TERMINATIONS AT MOTOR.

LIGHT FIXTURE SCHEDULE											
DESIGNATION	TYPE	MANUFACTURER	CATALOG NUMBER	LUMENS	LIGHT DISTRIBUTION	LIGHT COLOR	VOLTS	WATTS	INSTALLATION	FINISH / COLOR	REMARKS
L1	4' WRAP LIGHT	LITHONIA LIGHTING	CLX-L48-4000LM-SEF-L/LENS-WD-MVOLT-40K=80CRI	4,000	WIDE	4000K	120-277	32	SUSPENDED	WHITE	2
E1	WALL PACK	LITHONIA LIGHTING	WDGE2-LED-P3-40K-80CRI-T3M-MVOLT-PE-DBLXD	3,000	MEDIUM	4000K	120-277	10	WALL MOUNTED	BLACK	
EX1	EXIT SIGN	HOLOPHANE	EXQM-S-W-RG-MVOLT-SD	N/A	N/A	N/A	120-277	2.5	WALL MOUNTED	WHITE	1

GENERAL NOTES, LIGHT FIXTURE SCHEDULE

- MODEL IS GIVEN FOR QUALITY ONLY, SUBSTITUTE LIGHT FIXTURES SHALL BE OF EQUAL OR GREATER QUALITY.
- ALL FIXTURES TO BE PROVIDED WITH REQUIRED MOUNTING HARDWARE FOR INSTALLATION TYPE SHOWN.

REMARKS

- FIXTURE SHALL BE SWITCHED TO RED.
- REFER TO SHEET E101 FOR EMERGENCY FIXTURE COUNT. DESIGNATED EM FIXTURES SHALL HAVE EMERGENCY BACKUP.



ANTICIPATED TIE IN LOCATIONS

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 RAW WATER PUMP STATION ELECTRICAL UPGRADES
ELECTRICAL SCHEDULES AND SITE PHOTO
 TOMPKINS COUNTY, NEW YORK
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