



TAZEWELL COUNTY HIGHWAY DEPARTMENT BUILDING REPAIRS:

OFFICE AND SHOP RENOVATION

BID DOCUMENTS JANUARY 2024

SECTION #: 21-00000-06-MG

SHEET INDEX

AGENCY RESPONSIBLE FOR LETTING

Approved: 22 Feb 2024
[Signature]

Passed: 02-29-2024
[Signature]

Releasing for Bid Based on Limited Review: March 1, 2024
[Signature]
Deputy Director of Highways, Region 3 Engineer

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LOCATION MAP

PROJECT SITE

CURRENT CODES

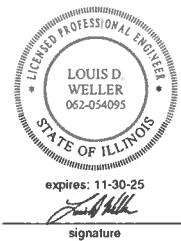
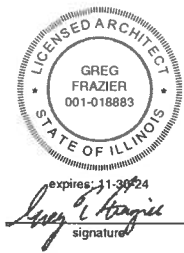
- INTERNATIONAL BUILDING CODE 2018
- INTERNATIONAL EXISTING BUILDING CODE 2018
- NATIONAL ELECTRICAL CODE 2017
- STATE OF ILLINOIS PLUMBING CODE, 77 ILL. ADM. CODE PT. 890
- INTERNATIONAL MECHANICAL CODE 2018
- INTERNATIONAL FIRE CODE 2018
- ILLINOIS ACCESSIBILITY CODE
- ILLINOIS ENERGY CONSERVATION CODE (MOST CURRENT)

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THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL 911 IN THE EVENT IN WHICH DAMAGE RESULTS IN THE RELEASE OF NATURAL GAS.



CMT JOB NO.: 22001132-02



DEMOLITION GENERAL NOTES:
 1. REMOVE ALL ITEMS FROM SURFACE OF WALLS IN EXIST. RESTROOM.
 2. GENERAL CONTRACTOR SHALL HIRE AN ASBESTOS ABATEMENT CONTRACTOR LICENSED WITH THE STATE OF ILLINOIS TO ABATE THE FLOOR TILE & MASTIC IN ITS ENTIRETY.

DEMOLITION KEYED NOTES:

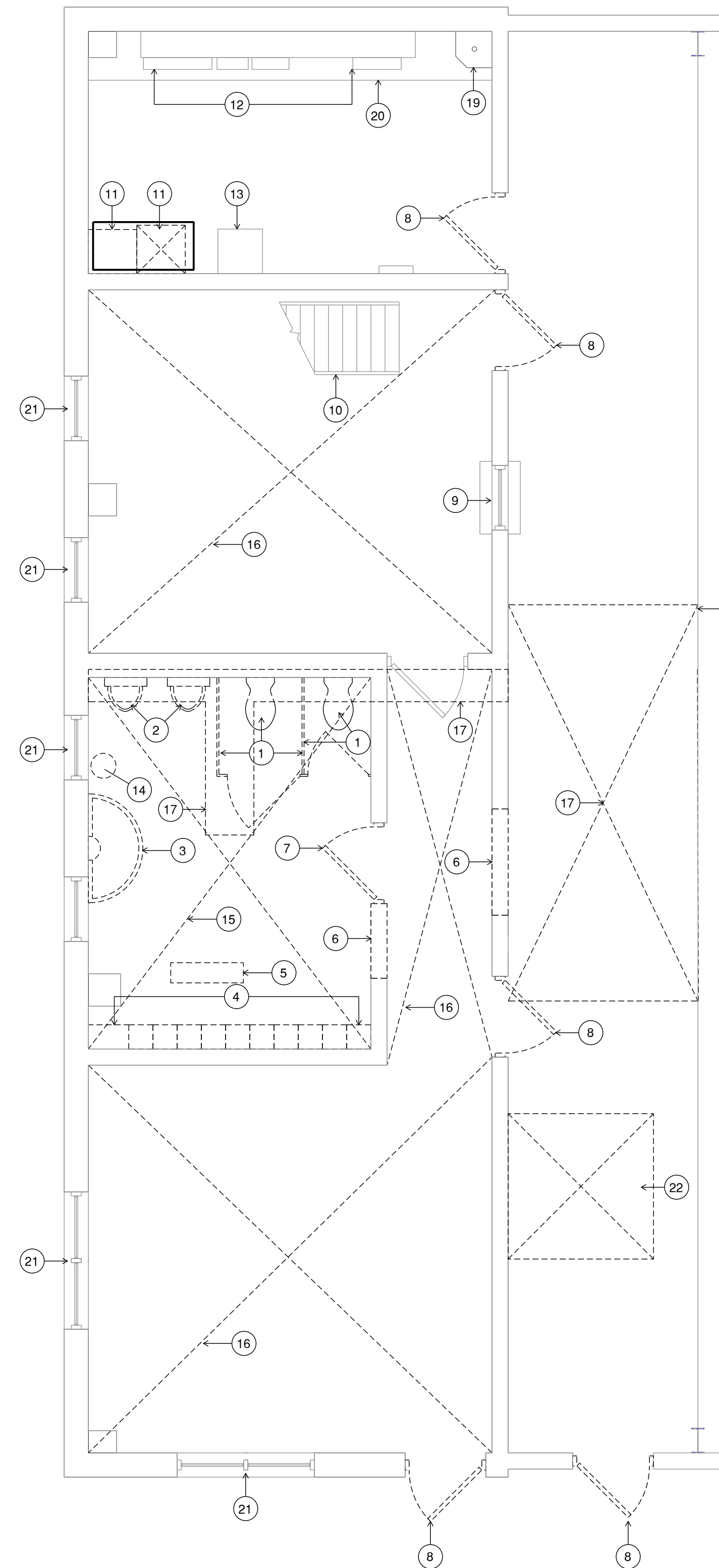
- ① REMOVE TOILET, PARTITIONS & ACCESSORIES
- ② REMOVE URINALS
- ③ REMOVE WASH BASIN
- ④ REMOVE LOCKERS & FILLER (BASE TO REMAIN)
- ⑤ REMOVE BENCH
- ⑥ REMOVE PORTION OF CMU WALL
- ⑦ REMOVE DOOR & FRAME
- ⑧ DEMOLITION NOT IN SCOPE
- ⑨ PASS-THRU WINDOW TO REMAIN
- ⑩ STAIR TO REMAIN
- ⑪ REMOVE MECHANICAL EQUIPMENT - SEE MECHANICAL
- ⑫ ELECTRICAL EQUIPMENT TO REMAIN
- ⑬ ICE MAKER TO REMAIN
- ⑭ REMOVE EYEWASH STATION
- ⑮ REMOVE CERAMIC WALL & BASE TILE IN ENTIRE ROOM
- ⑯ FLOOR TILE & MASTIC TO BE ABATED UNDER THIS CONTRACT. SEE DEMOLITION GENERAL NOTE #2.
- ⑰ REMOVE PORTION OF EXIST. CONC. SLAB - SEE NEW PLAN FOR LIMITS
- ⑱ EXISTING FLOOR JOINT
- ⑲ EXISTING MOP SINK TO REMAIN
- ⑳ EXISTING CONC. CURB TO REMAIN
- ㉑ EXISTING WINDOW TO REMAIN
- ㉒ REMOVE 1" FROM CONCRETE SLAB AS REQUIRED FOR NEW CONCRETE RAMP - SEE NEW PLAN

DEMOLITION RCP NOTES:

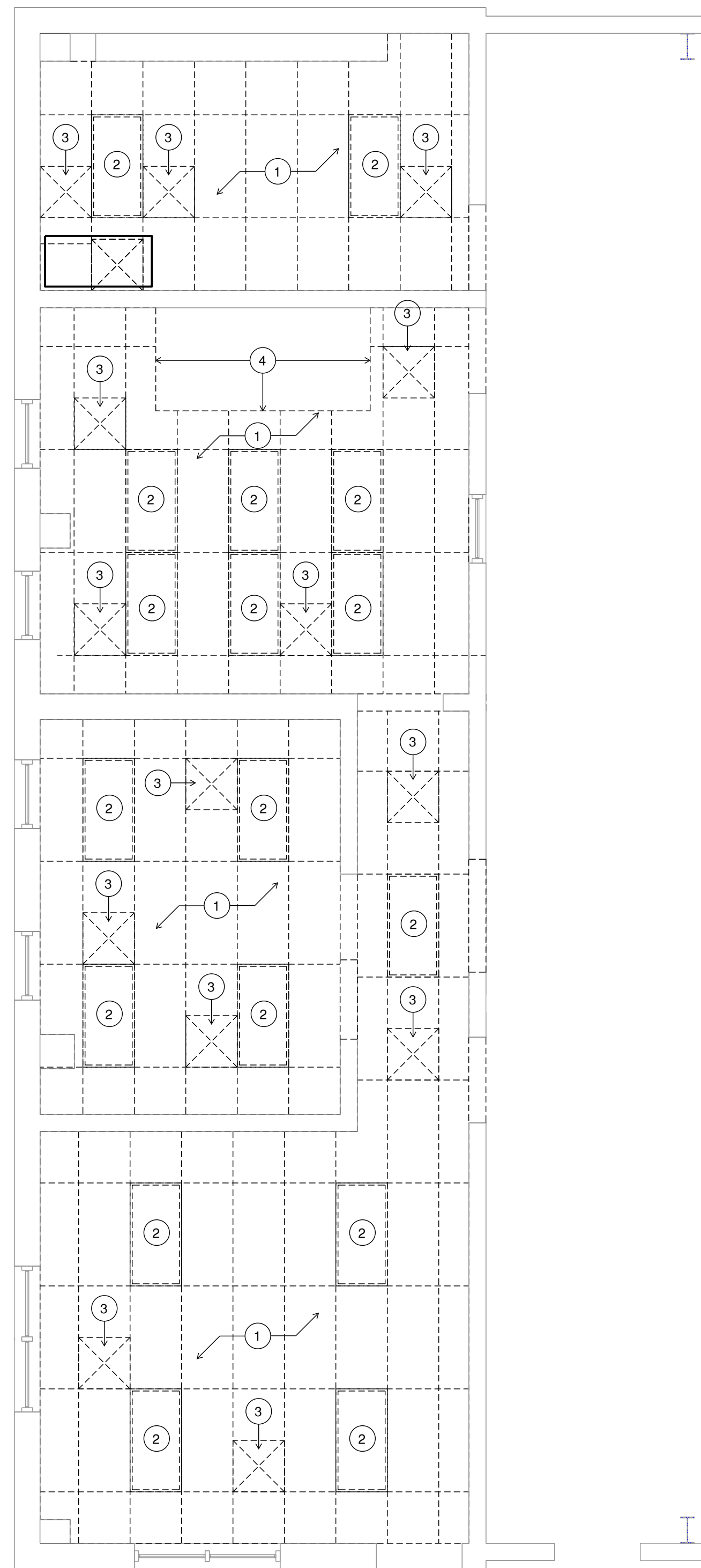
- ① REMOVE SUSPENDED ACOUSTICAL CEILING GRID & TILES
- ② REMOVE LIGHT FIXTURES
- ③ REMOVE GRILLES
- ④ REMOVE VERTICAL GRID TILES @ STAIRWELL

DEMOLITION RCP LEGEND:

- REMOVE 2x4 SUSPENDED CEILING GRID
- REMOVE 2x4 LIGHT FIXTURE
- REMOVE DIFFUSER



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



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:
OFFICE RENOVATION
OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK	DATE	DESCRIPTION
PROJECT NO:	22001132-02	
CAD DWG FILE:	AD-101.DWG	
DESIGNED BY:	GTF	
DRAWN BY:	EAW	
CHECKED BY:	GTF	
APPROVED BY:	-	
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SHEET TITLE
**DEMOLITION FLOOR
PLAN & REFLECTED
CEILING PLAN**

AD-101.1

Path: L:\Tazewell\22001132-02_Sheet\BuildingOffice\Renovation\Draw\Structures\Office_Phase\AD-101.dwg
Date: Wednesday, January 17, 2024 2:29:56 PM

GENERAL NOTES:

- ROOMS 102 & 103 TO HAVE CERAMIC TILE FLOORING - SEE ROOM FINISH SCHEDULE
- ROOMS 101 & 104 TO HAVE LAMINATED VINYL TILE FLOORING - SEE ROOM FINISH SCHEDULE

KEYED RCP NOTES:

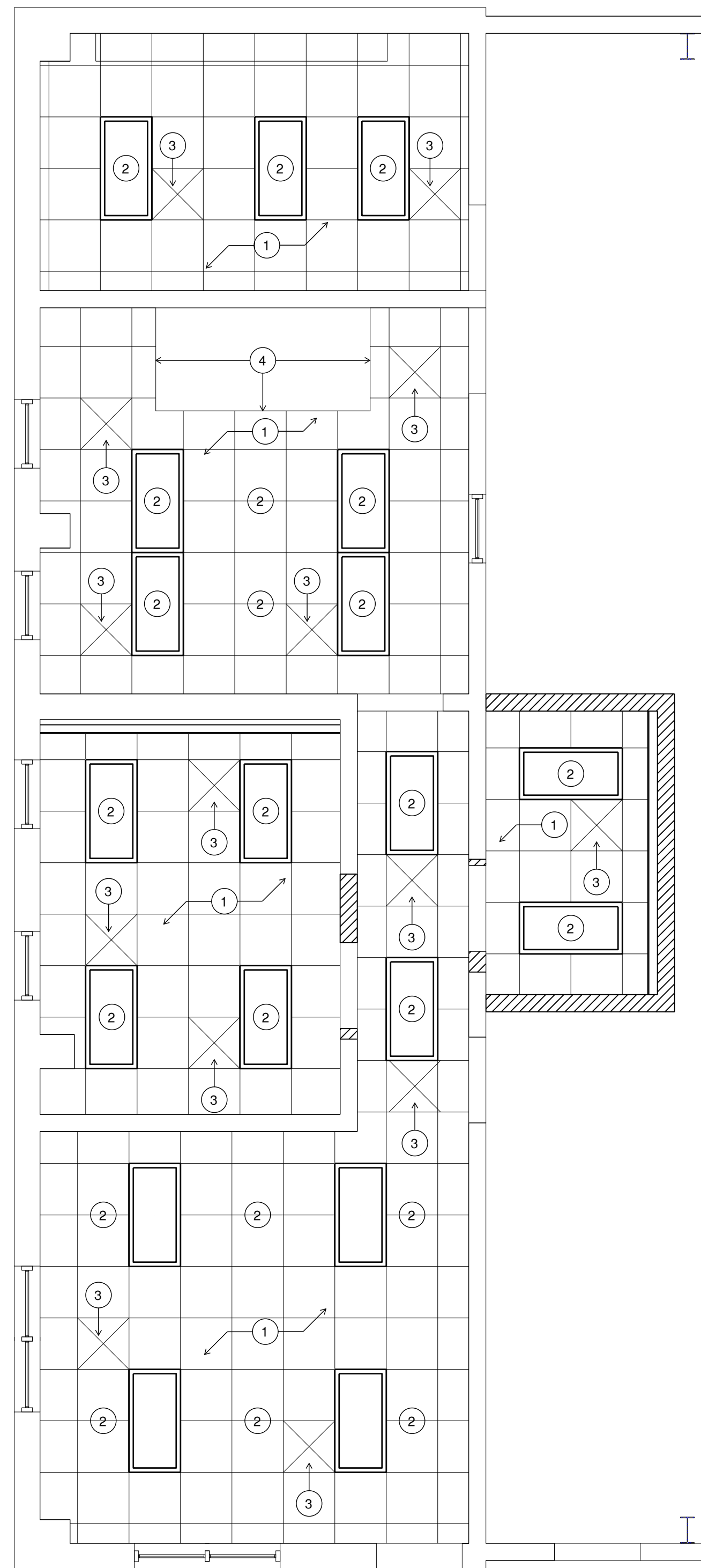
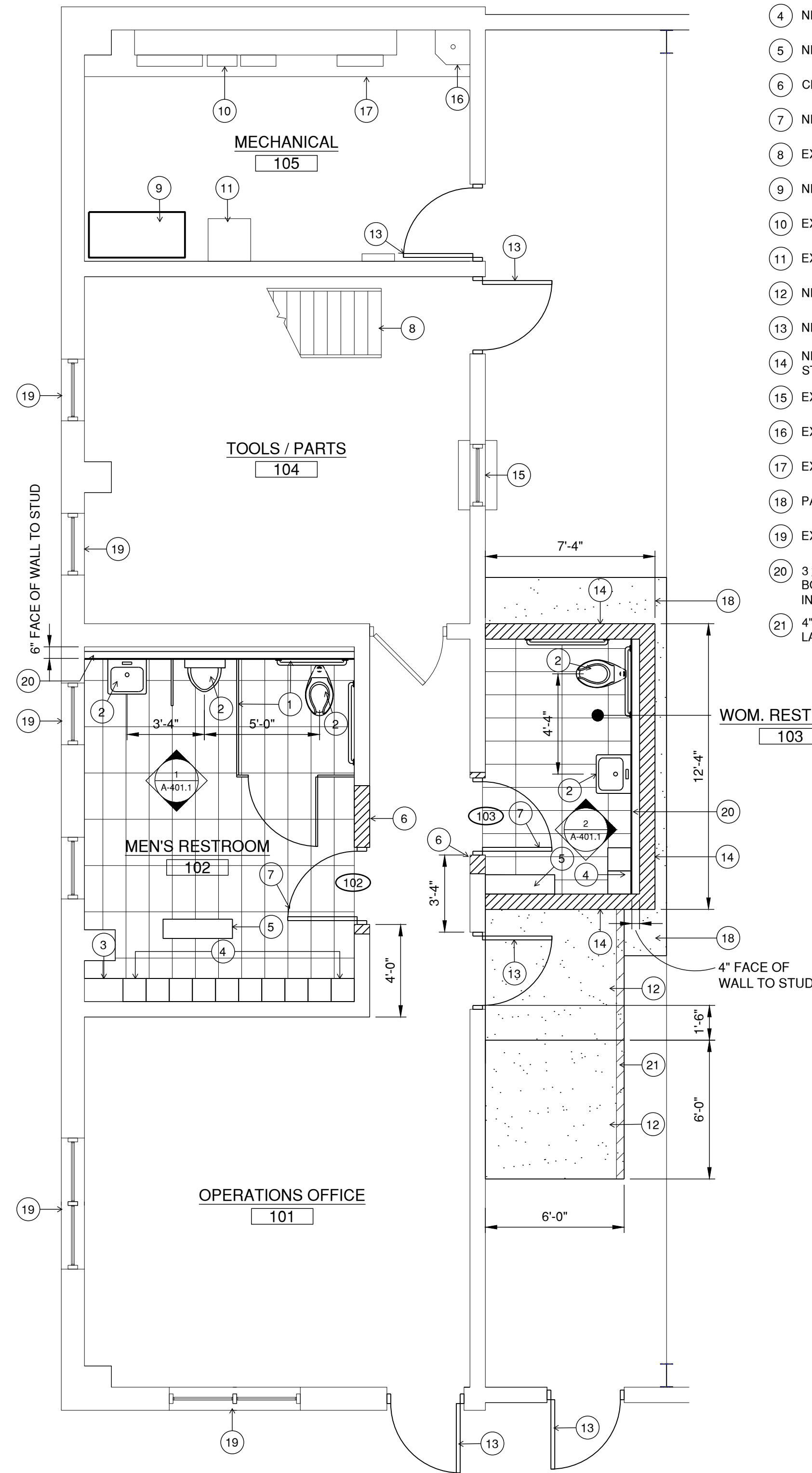
- NEW SUSPENDED ACOUSTICAL TILE CEILING
- NEW LIGHT FIXTURES - SEE ELECTRICAL
- NEW DIFFUSER - SEE MECHANICAL
- NEW VERTICAL ACOUSTICAL TILE & GRID @ STAIRWELL - PROVIDE CLIPS

RCP LEGEND:

- NEW 2x2' ACOUSTICAL TILE CEILING
- NEW 2x4' RECESSED LIGHT FIXTURE
- NEW SUPPLY DIFFUSER

KEYED FLOOR PLAN NOTES:

- TOILET PARTITIONS & ACCESSORIES
- NEW PLUMBING FIXTURES - SEE PLUMBING
- FILLER PANEL @ END OF LOCKERS
- NEW LOCKERS
- NEW BENCH
- CMU WALL INFILL
- NEW DOOR & FRAME
- EXIST. STAIR
- NEW MECHANICAL EQUIPMENT - SEE MECHANICAL
- EXIST. ELECTRICAL EQUIPMENT
- EXIST. ICE MAKER
- NEW CONC. RAMP & LANDING
- NEW WORK NOT IN SCOPE
- NEW CMU WALL W/ INSULATED CORES - SEE STRUCTURAL & 5/A-401
- EXISTING PASS-THRU WINDOW
- EXISTING MOP SINK
- EXISTING CONC. CURB
- PATCH IN NEW CONC. SLAB
- EXISTING WINDOW TO REMAIN
- 3/8" METAL STUDS @ 16" O.C. W/ 1/2" CEMENT BOARD TO EXTEND 6" ABOVE CEILING - INSTALL C.T. UP TO CEILING
- 4" PAINTED YELLOW STRIPE ALONG LANDING/RAMP EDGE



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

2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

BID DOCUMENTS
JANUARY, 2024

TAZEVELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK	DATE	DESCRIPTION

PROJECT NO:	22001132-02
CAD DWG FILE:	A-101.DWG
DESIGNED BY:	GTF
DRAWN BY:	EAW
CHECKED BY:	GTC
APPROVED BY:	APR
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SHEET TITLE
**FLOOR PLAN &
REFLECTED CEILING
PLAN**

A-101.1

SHEET 2 OF 34

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B

A

BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OFFICE RENOVATION
OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: A-102.DWG

DESIGNED BY: GTF

DRAWN BY: EAW

CHECKED BY: GTF

APPROVED BY: -

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SHEET TITLE

MEZZANINE FLOOR
PLAN

A-102.1

SHEET 5 OF 34

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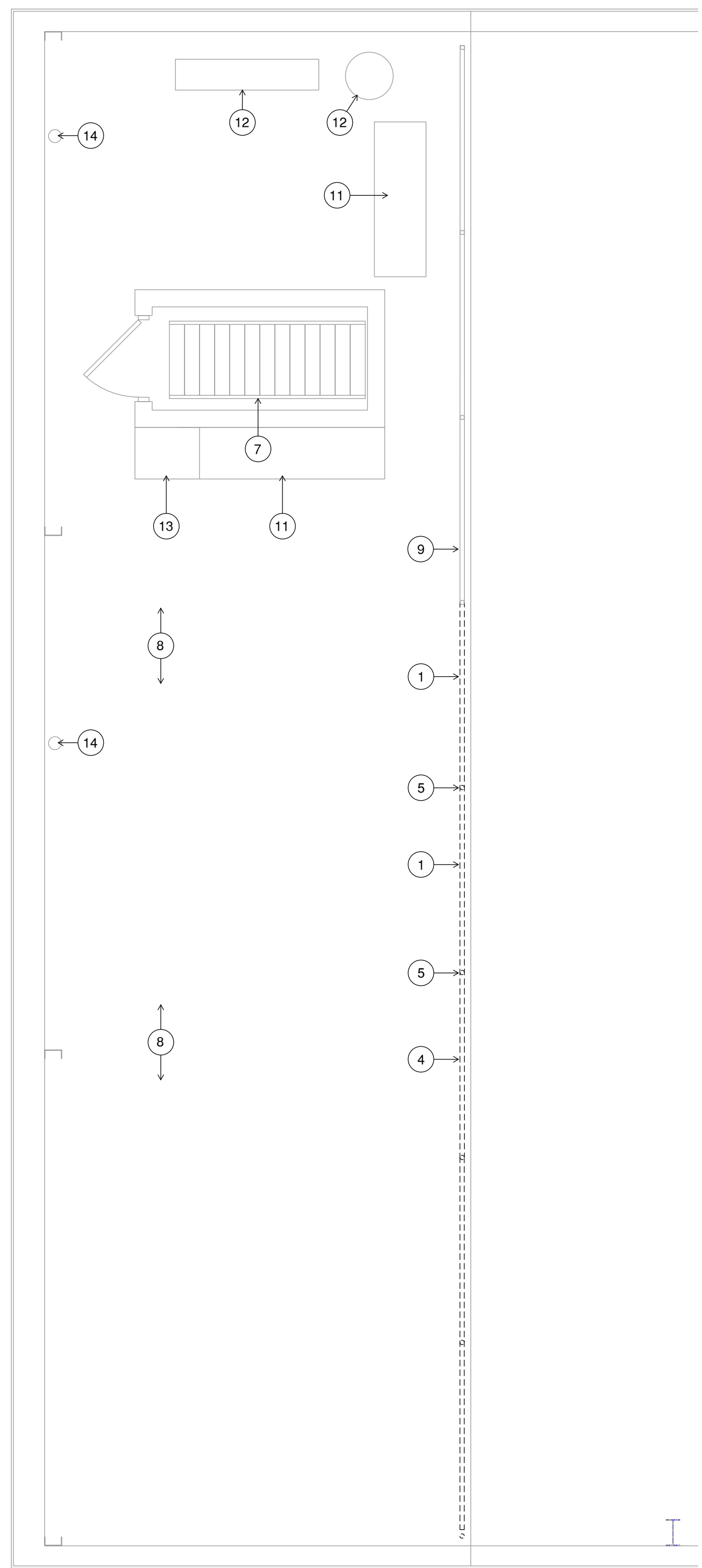
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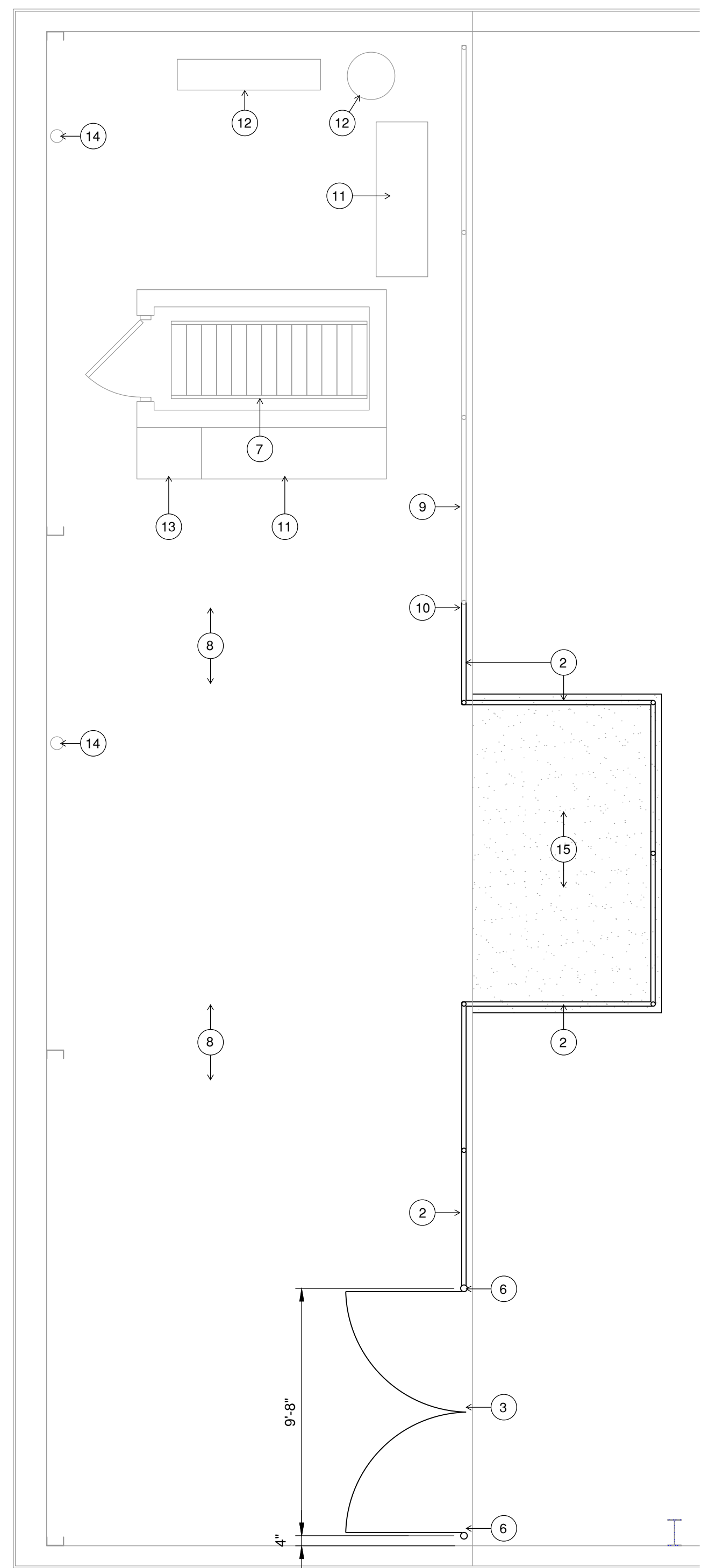
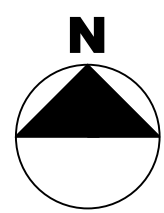
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1 MEZZANINE FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

1

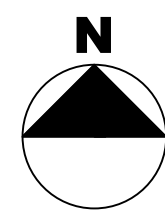
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2 MEZZANINE FLOOR PLAN
SCALE: 1/4" = 1'-0"

3

4



5

GENERAL NOTES:

1.

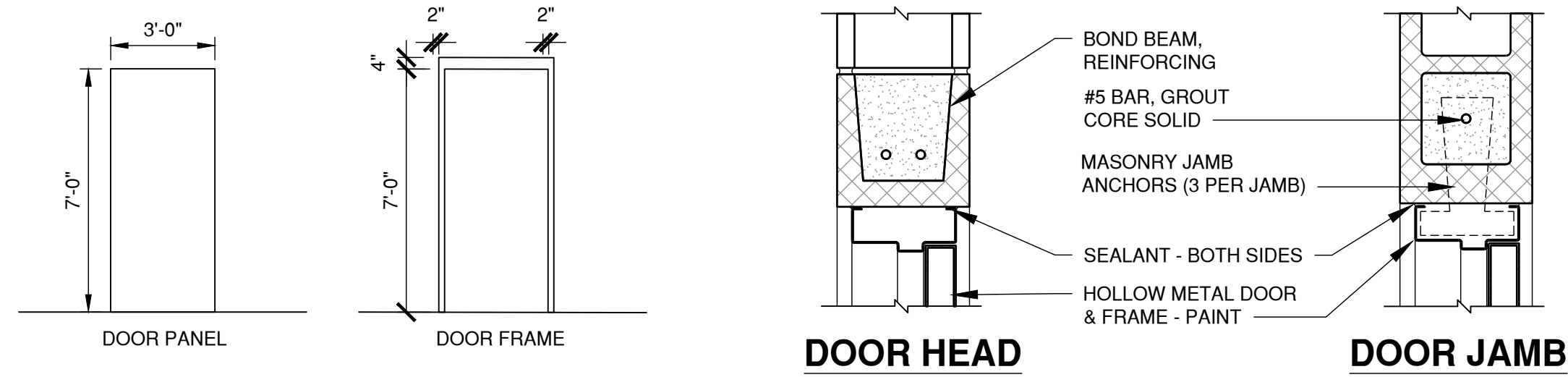
KEYED NOTES:

- 1 EXIST. PORTION OF GUARDRAIL TO BE REMOVED
- 2 NEW STEEL GUARDRAIL - PAINT
- 3 NEW GATE
- 4 REMOVE EXIST. GATE
- 5 REMOVE EXIST. POST
- 6 NEW GATE JAMB POST
- 7 EXIST. STAIR
- 8 EXIST. CONC. FLOOR
- 9 EXIST. STEEL GUARDRAIL
- 10 WELD NEW HORIZONTAL RAILS TO EXIST. STEEL POST
- 11 EXIST. CASEWORK
- 12 EXIST. EQUIPMENT
- 13 EXIST. REFRIGERATOR
- 14 EXIST. PIPE PENETRATION
- 15 NEW REINFORCED CONCRETE SLAB - SEE DETAIL 6/A-401.1

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Date: Thursday, January 18, 2024 3:26:24 PM

DOOR SCHEDULE

NO.	SIZE	DOOR			FRAME		WALL CONST	LABEL	HARDWARE GROUP	LINTEL	REMARKS
		MAT'L	FINISH	CORE	MAT'L	FINISH					
102	3'-0" x 7'-0" x 1 3/4"	HM	PT	--	HM	PT	CMU	--	1	--	
103	3'-0" x 7'-0" x 1 3/4"	HM	PT	--	HM	PT	CMU	--	2	--	



1 DOOR PANEL & FRAME
SCALE: 1/4" = 1'-0"

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

ROOM FINISH SCHEDULE

NUMBER	ROOM NAME	WALLS								BASE		FLOOR		CEILING			REMARKS
		NORTH		EAST		SOUTH		WEST		MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	HEIGHT	
		MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN								
101	OPERATIONS OFFICE	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	RB	PREFIN	LVT	--	ACT	--	8'-0"	
102	MEN'S RESTROOM	CMT. BD.	C.T.	CMU	PNT	CMU	PNT	CMU	PNT	CT	--	CT	--	ACT	--	8'-0"	
103	WOMEN'S RESTROOM	CMU	PNT	CMT. BD.	C.T.	CMU	PNT	CMU	PNT	CT	--	CT	--	ACT	--	8'-0"	
104	TOOLS/PARTS	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	RB	PREFIN	LVT	--	ACT	--	8'-0"	
105	MECHANICAL	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	RB	PREFIN	EX. CONC.	--	ACT	--	8'-0"	

BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: A-601.DWG

DESIGNED BY: GTF

DRAWN BY: EAW

CHECKED BY: GTF

APPROVED BY: -

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SHEET TITLE

SCHEDULES

A-601.1

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License No. 184-00613

CONSULTANTS

BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK | DATE | DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: JOB NUMBER - P-001.DWG

DESIGNED BY: LRK

DRAWN BY: LRK

CHECKED BY: HEC

APPROVED BY: -

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SHEET TITLE

GENERAL NOTES

P-001.1

SHEET 8 OF 34

GENERAL NOTES

- WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CODES AND INDUSTRY STANDARDS, AS WELL AS THE LATEST OSHA, STATE, COUNTY AND LOCAL REQUIREMENTS, CODES AND STANDARDS.
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND INSTALL ALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH STRUCTURAL MEMBERS AND EQUIPMENT.
- DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND OTHER RELATED DRAWINGS.
- PIPING LAYOUT IS APPROXIMATE AND SHOULD BE COORDINATED TO AVOID FIELD INTERFERENCES.
- PIPING SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER, AND RUN PARALLEL OR PERPENDICULAR TO WALLS, CEILINGS, AND FLOORS.
- REFER TO ALL OTHER DRAWINGS AND/OR CONSULT PROJECT REPRESENTATIVE PRIOR TO ROUGH-IN FOR PLUMBING WORK TO AVOID FIELD CONFLICTS.
- MATERIALS AND EQUIPMENT USED ON THIS PROJECT SHALL BE NEW UNLESS OTHERWISE NOTED. NEW EQUIPMENT SHALL BE U.L. APPROVED AS APPLICABLE.
- PLUMBING, ACCESSORIES AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION SECTIONS AND MANUFACTURERS RECOMMENDATIONS.
- FIRE STOP PIPE PENETRATIONS AT ALL FIRE RATED WALLS.
- INSTALL HOT AND COLD WATER SUPPLY PIPING ABOVE THE LAY-IN CEILING AND DROP DOWN INSIDE WALLS (OR PIPING CHASE) TO FIXTURES UNLESS OTHERWISE INDICATED.
- INSTALLATION OF WATER SUPPLY PIPING AND VENT PIPING ABOVE LAY-IN CEILING SHALL BE COORDINATED WITH OTHER UTILITIES. ALL HOT AND COLD WATER PIPING, VALVES, AND ACCESORIES SHALL BE INSULATED IN ACCORDANCE WITH SECTION 15084.
- ALL WASTE AND DRAIN PIPING SHALL BE INSTALLED A MINIMUM OF 12" BELOW THE BUILDING FLOOR SLAB (TO PIPE INVERT)
- ALL PIPING SHALL BE SUPPORTED AS PER SPECIFICATIONS.
- STOPS AND/OR SHUT-OFF VALVES SHALL BE PROVIDED AT EACH FIXTURE.
- PIPING ROUGH-IN SHALL NOT COMMENCE UNTIL APPROVED EQUIPMENT SHOP DRAWINGS HAVE BEEN FURNISHED.
- THE ARRANGEMENT AND LOCATION OF PIPING SHALL BE SUBSTANTIALLY AS ILLUSTRATED ON THE DRAWINGS. IN GENERAL PIPING SHALL BE INSTALLED RUNNING PARALLEL TO OR AT RIGHT ANGLES WITH BUILDING LINES.
- PROVIDE ACCESS TO ALL VALVES.
- CHANGES IN DIRECTION IN WASTE AND SANITARY PIPING SHALL BE MADE BY THE APPROPRIATE USE 45 DEGREE WYES, HALF-WYES OR LONG SWEEP QUARTER, SIXTH, EIGHTH, OR SIXTEENTH BENDS.
- WHERE WASTE AND SANITARY PIPING INCREASES IN SIZE AT A JUNCTION, SUCH INCREASE SHALL BE MADE (IMMEDIATELY) PRIOR TO JUNCTION USING STANDARD INCREASERS OR REDUCERS.
- PIPE SIZE SHOWN ARE MINIMUM SIZES.
- WHERE VENT PIPES CONNECT TO A HORIZONTAL WASTE PIPE, THE VENT SHALL BE TAKEN OFF ABOVE THE CENTER LINE OF THE WASTE LINE AND SHALL RISE VERTICALLY, OR AT AN ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL, BEFORE OFFSETTING HORIZONTALLY.
- SLOPE HORIZONTAL VENTS AT 1/8" PER FOOT TO DRAIN BACK TOWARD WASTE/DRAIN PIPING. WASTE AND DRAIN PIPING 3" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT, MINIMUM. WASTE AND DRAIN PIPING 4" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM. COORDINATE ALL FLOOR DRAIN LOCATIONS AND BELOW GRADE PIPING WITH STRUCTURAL WORK. AVOID CONFLICTS WITH STRUCTURAL FOOTINGS, EQUIPMENT BASES AND FOUNDATIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BTU	BRITISH THERMAL UNIT PER HOUR
CO	CLEAN OUT
CW	COLD WATER
DIA	DIAMETER
DF	DRINKING FOUNTAIN
DOM	DOMESTIC
DWH	DOMESTIC WATER HEATER
DW	DOUBLE WALLED
DN	DOWN
EL./ELEV.	ELEVATION
ET	EXPANSION TANK
EXG	EXISTING
EWC	ELECTRIC WATER COOLER
F	FAUCET
FD	FLOOR DRAIN
FLEX	FLEXIBLE
GA	GAGE OR GAUGE
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HW	HOT WATER
ID	INSIDE DIAMETER
INSUL.	INSULATION
LAV	LAVATORY
MS	MOP SINK
POC	POINT OF CONNECTION
SS	SERVICE SINK
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
VTRF	VENT THRU ROOF AND FLASH
VUP	VENT UP
WC	WATER CLOSET
WH	WATER HEATER

SYMBOLS

	COLD WATER
	HOT WATER
	VENT
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	WASTE
	WASTE BELOW GRADE
	GAS PIPING
	GAS PIPING BELOW GRADE
	AIR PIPING
	VACUUM PIPING
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	PIPE SLEEVE
	PRESSURE GAGE
	PRESSURE RELIEF VALVE
	UNION
	BACK FLOW PREVENTER
	THERMOSTATIC MIXING VALVE
	SHOCK ABSORBER (LETTER INDICATES PDI CODE)
	INTERFACE BETWEEN NEW AND EXISTING WORK
	FLOOR DRAIN AND TRAP
	CLEAN OUT
	HOSE BIBB
	PRESSURE REDUCING VALVE
	OILY WASTE ABOVE GRADE
	OILY WASTE BELOW GRADE
	ACID WASTE ABOVE GRADE
	ACID WASTE BELOW GRADE
	EMERGENCY TEMPERED
	TEMPERED
	STORM

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Date: Wednesday, January 17, 2024 2:30:14 PM

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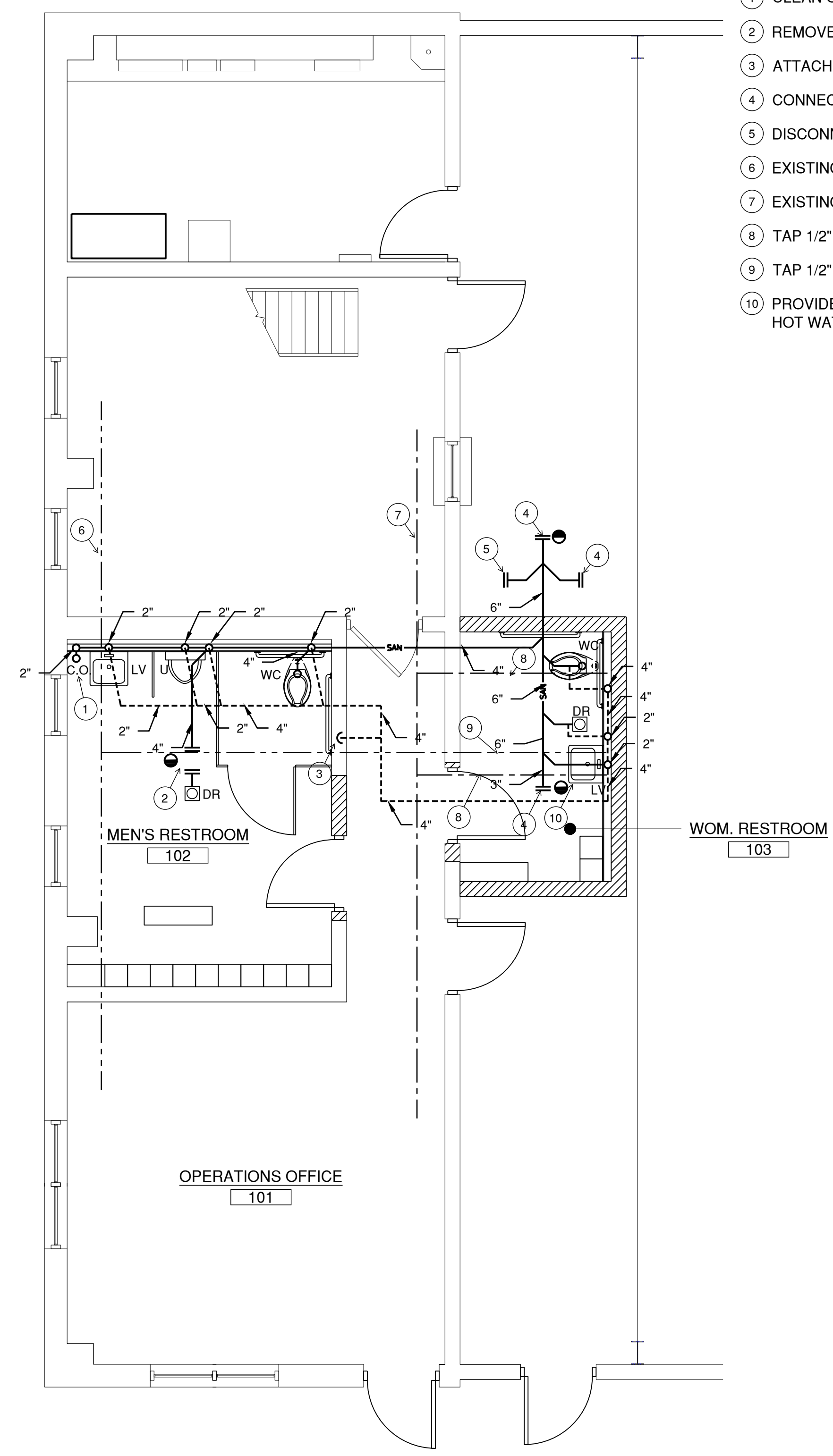
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GENERAL NOTES

- CONNECT FIXTURES IN MEN'S RESTROOM TO EXISTING DOMESTIC HOT, COLD WATER PIPING THAT SERVED ORIGINAL FIXTURES.
- FOR ALL FIXTURES AND PIPING NOT BEING USED; DISCONNECT SANITARY. REMOVE AND ABANDON IN PLACE.
- PROVIDE ANGLE STOPS AT THE HOT AND COLD CONNECTIONS TO ALL PLUMBING FIXTURES.

KEYED FLOOR PLAN NOTES:

- CLEAN OUT IN WALL.
- REMOVE EXISTING DRAIN PIPING AND CONNECT TO PIPING LINE.
- ATTACH VENT LINE FROM WOMEN'S RESTROOM TO EXISTING VENT LINE IN WALL.
- CONNECT NEW SANITARY PIPING TO EXISTING SANITARY LINE.
- DISCONNECT SANITARY. REMOVE AND ABANDON IN PLACE.
- EXISTING 3/4" DOMESTIC HOT WATER PIPE.
- EXISTING 1-1/4" DOMESTIC COLD WATER PIPE.
- TAP 1/2" COLD WATER FROM EXISTING COLD WATER IN HALL.
- TAP 1/2" FROM EXISTING HOT WATER PIPE.
- PROVIDE THERMOSTATIC MIXING VALVE UNDER LAV TO LIMIT HOT WATER TEMPERATURE TO 110°.



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



License No. 184-00613
CONSULTANTS

BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02
CAD DWG FILE: P-101.DWG
DESIGNED BY: LRK
DRAWN BY: LRK
CHECKED BY: HEC
APPROVED BY: -

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SHEET TITLE
PLUMBING PLAN

P-101.1

SHEET 10 OF 34

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License No. 184-00613

CONSULTANTS

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BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

B

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

A

MARK | DATE | DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: JOB NUMBER-M-001.DWG

DESIGNED BY: LRK

DRAWN BY: LRK

CHECKED BY: HEC

APPROVED BY: -

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SHEET TITLE

GENERAL NOTES

M-001.1

SHEET 11 OF 34

GENERAL NOTES

1. WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CODES AND INDUSTRY STANDARDS, AS WELL AS THE LATEST OSHA, STATE, COUNTY AND LOCAL REQUIREMENTS, CODES, AND STANDARDS.
2. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND INSTALL ALL EQUIPMENT, DUCTWORK, AND PIPING TO AVOID INTERFERENCE WITH STRUCTURAL MEMBERS AND EQUIPMENT.
3. DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND OTHER RELATED DRAWINGS.
4. PIPING AND DUCT LAYOUT ARE APPROXIMATE AND SHOULD BE COORDINATED TO AVOID FIELD INTERFERENCES.
5. DUCTWORK AND PIPING SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER, AND RUN PARALLEL OR PERPENDICULAR TO WALLS, CEILINGS, AND FLOORS.
6. DUCTWORK SIZES MAY BE MODIFIED TO SUIT SITE CONDITIONS AS LONG AS DUCT CROSS SECTIONAL AREA IS NOT REDUCED. ALL OFFSETS AND TRANSITIONS REQUIRED TO AVOID INTERFERENCES SHALL MAINTAIN SAME DUCT CROSS SECTIONAL AREAS AS INLET.
7. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INTERNAL DIMENSIONS REPRESENTING THE DUCT FREE AREA DIMENSIONS.
8. REFER TO ARCHITECTURAL DRAWINGS AND/OR CONSULT ARCHITECT/ ENGINEER PRIOR TO ROUGH-IN FOR MECHANICAL WORK TO AVOID FIELD CONFLICTS.
9. MATERIALS AND EQUIPMENT USED ON THIS PROJECT SHALL BE NEW. NEW EQUIPMENT SHALL BE U.L. APPROVED AS APPLICABLE.
10. HVAC DUCTWORK AND ACCESSORIES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND APPLICABLE SPECIFICATION SECTIONS.
11. HVAC DUCTWORK, ACCESSORIES AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION SECTIONS AND MANUFACTURERS RECOMMENDATIONS.
12. HVAC DUCTWORK SHALL BE INSULATED AS SPECIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 23 07 13.
13. THERMOSTATS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR, FIELD LOCATED, AND SHALL BE MOUNTED APPROXIMATELY 48" AFF.
14. DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE.
15. FLEXIBLE DUCTS SHALL NOT EXCEED 6' IN LENGTH.
16. PROVIDE TURNING VANES FOR ALL MITERED ELBOWS.
17. ALL OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED MINIMUM 12' FROM EXHAUST AND VENT OPENINGS.

ABBREVAITIONS

ACCU	AIR COOLED CONDENSING UNIT	MD	MANUAL DAMPER
AFF	ABOVE FINISHED FLOOR	MAT	MIXED AIR TEMPERATURE
BDD	BACKDRAFT DAMPER	NK	NECK
BOD	BOTTOM OF DUCT	NO	NORMALLY OPEN
BTU	BRITISH THERMAL UNIT PER HOUR	NC	NORMALLY CLOSED
CD	CEILING DIFFUSER	OAL	OUTSIDE AIR LOUVER
CLG	CEILING	OAI	OUTSIDE AIR INTAKE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
DH	DUCT HEATER	POC	POINT OF CONNECTION
DIA	DIAMETER	PBD	PARALLEL BLADE DAMPER
DIFF	DIFFUSER	REQD	REQUIRED
DWH	DOMESTIC WATER HEATER	RH	RADIANT HEATER
DW	DOUBLE WALLED	RE	RETURN/EXHAUST
DN	DOWN	RA	RETURN AIR
EL./ELEV.	ELEVATION	RO	ROOF OPENING
EG	EXHAUST GRILLE	RR	RETURN REGISTER
EF	EXHAUST FAN	RPM	ROTATIONS PER MINUTE
EA	EXHAUST AIR	RTU	ROOF TOP HVAC UNIT
EAL	EXHAUST AIR LOUVER	SD	SPLITTER DAMPER
E	EXHAUST	S	SUPPLY
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR
FCU	FAN COIL UNIT	SF	SUPPLY FAN
FE	FIRE DAMPER	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
FD	FUME HOOD EXHAUST	TE	TOILET EXHAUST FAN
FLEX	FLEXIBLE	TS	TIP SPEED
GA	GAGE OR GAUGE	TSP	TOTAL STATIC PRESSURE
GPM	GALLONS PER MINUTE	TYP	TYPICAL
GR	GRILLE	UD	UNDERCUT DOOR
HP	HEAT PUMP	UH	UNIT HEATER
HW	HOT WATER	VTR	VENT THRU ROOF
HVAC	HEATING VENTILATION AND AIR COND. UNIT	VIB	ISOL VIBRATION ISOLATOR
ID	INSIDE DIAMETER	VD	VOLUME DAMPER
INSUL.	INSULATION	WP	WEATHER PROOF
L	LOUVER		

SYMBOLS

	AIR FILTER
	BALL VALVE
	COLD WATER
	DRAIN
	DUCT DOWN
	DUCTED AIRFLOW
	EXHAUST FAN
	FAN
	FIRE DAMPER
	FLEXIBLE DUCT CONNECTION
	FREEZE STAT
	GATE VALVE
	GLOBE VALVE
	MANUAL DAMPER
	MOTOR STARTER
	MOTORIZED OPERATOR
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
	PIPE SLEEVE
	PRESSURE GAGE
	PRESSURE RELIEF VALVE
	REDUCER OR INCREASER - CONCENTRIC OR ECCENTRIC
	RETURN OR EXHAUST RISER
	SUPPLY RISER
	THERMOSTAT
	TURNING VANES
	UNDUCTED AIRFLOW
	UNION
	VENT
	VOLUME DAMPER

1

2

3

4

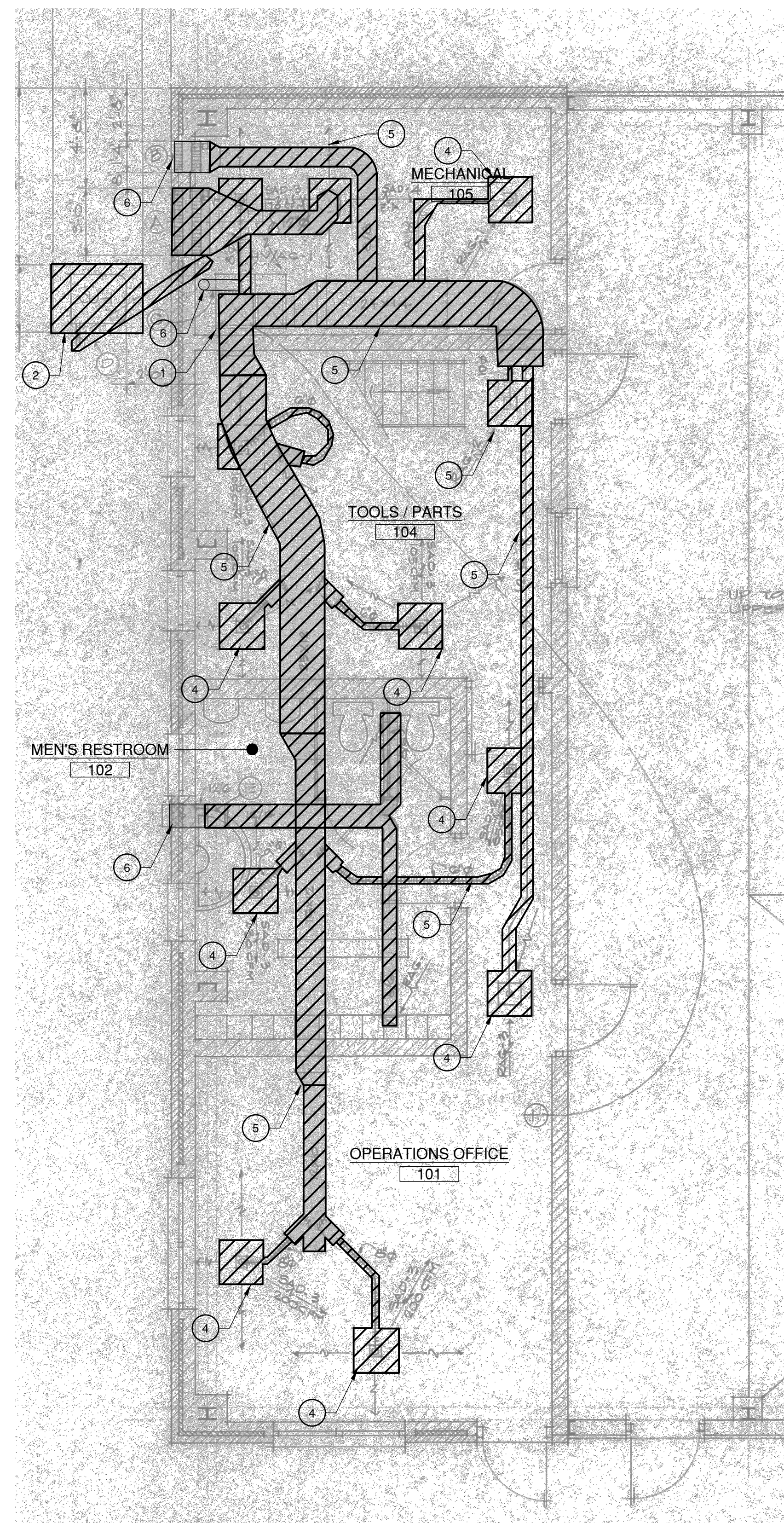
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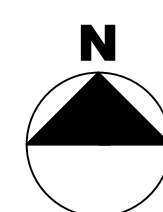
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KEYED DEMOLITION PLAN NOTES:

- ① REMOVE EXISTING FURNACE
- ② REMOVE EXISTING AIR CONDITIONING UNIT.
- ③ REMOVE EXISTING EXHAUST FAN.
- ④ REMOVE EXISTING DIFFUSERS.
- ⑤ REMOVE EXISTING DUCTWORK.
- ⑥ KEEP EXISTING LOUVER AND FURNACE VENT. SOME ADAPTATIONS MAY BE REQUIRED TO ATTACH TO NEW DUCT WORK/ EQUIPMENT.



1 DEMOLITION PLAN
NO SCALE



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TAZEWELL COUNTY
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BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: M-101.DWG

DESIGNED BY: LRK

DRAWN BY: LRK

CHECKED BY: HEC

APPROVED BY: -

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SHEET TITLE
DEMOLITION PLANS

MD-101.1

SHEET 12 OF 34

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TAZEWELL COUNTY
HIGHWAY DEPARTMENT
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OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
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TREMONT, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: M-102.DWG

DESIGNED BY: LRK

DRAWN BY: LRK

CHECKED BY: HEC

APPROVED BY: -

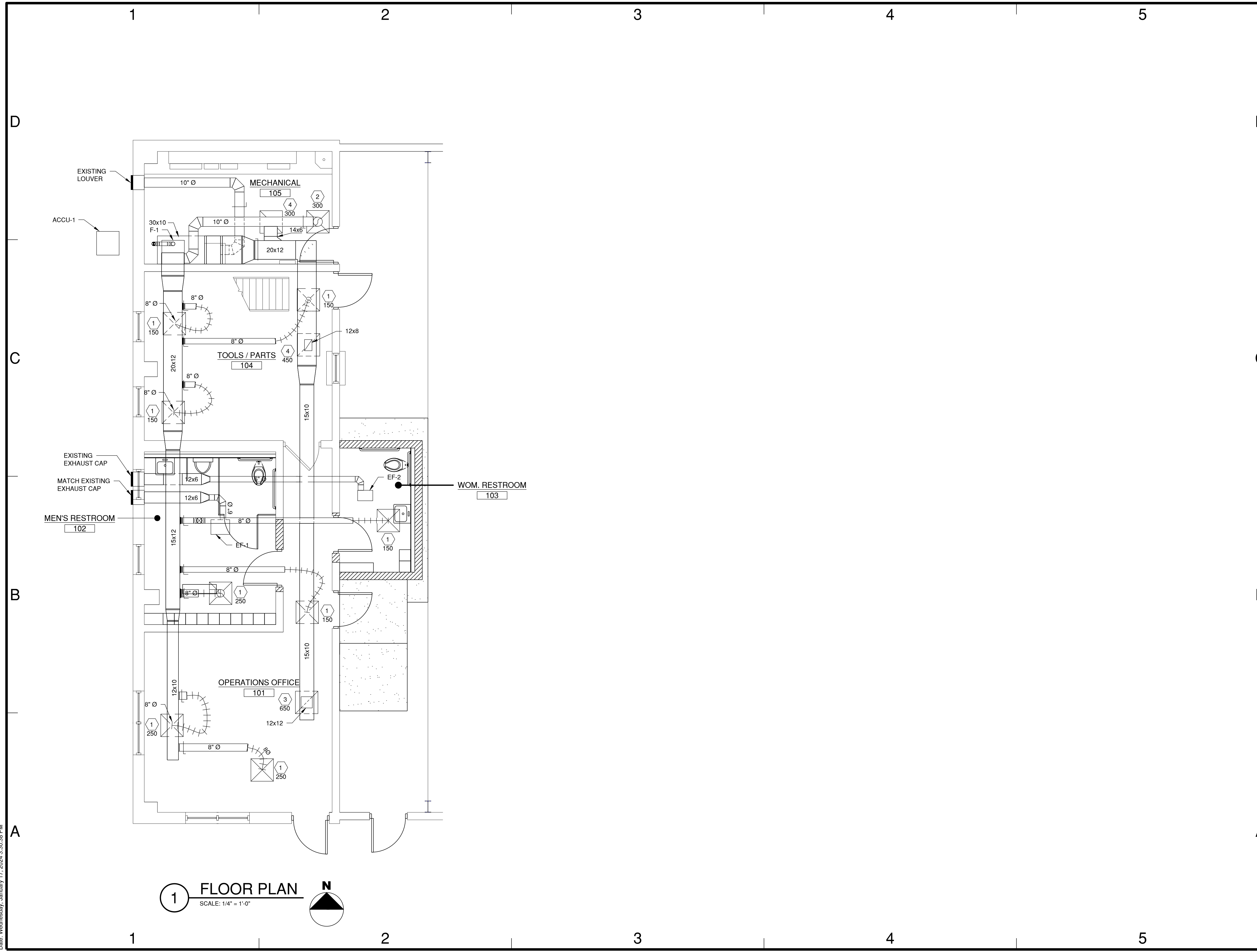
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MECHANICAL HVAC
FLOOR PLAN

M-101.1

SHEET 13 OF 34



1 FLOOR PLAN
SCALE: 1/4" = 1'-0"
N

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JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK DATE DESCRIPTION

PROJECT NO: 22001132-02
CAD DWG FILE: M-501.DWG
DESIGNED BY: LRK
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SHEET TITLE
**MECHANICAL
SCHEDULES**

M-501.1

SHEET 14 OF 34

FAN SCHEDULE		
MARK	EF-1	EF-2
SERVICE	MEN'S RESTROOM	WOMEN'S RESTROOM
LOCATION	CEILING	CEILING
TYPE	CEILING CENT.	CEILING CENT.
CFM	280	150
S.P.	0.10"	0.25"
FAN RPM	877	925
MOTOR	HP	-
	VOLT	120
	PHASE	1
	RPM	877
ACCESSORIES	SEE NOTES 1,2,3	SEE NOTES 1,2,3
REMARKS		

NOTES: 1 WALL CAP
2 BIRD SCREEN
3 CONTROLLED WITH LIGHTS

FURNACE SCHEDULE		F-1
MARK		F-1
SERVICE		-
CFM		1800
REFRIGERANT		R-410A
EXTERNAL STATIC PRESSURE		0.5"
COOLING	SENS. MBH	45.7
	TOTAL MBH	49.4
	EDB / EWB	75.2° / 63.7°
	LDB / LWB	58.2° / 57.1°
HEATING	INPUT BTUH	78,000
	EAT	70°
	LAT	95°
ELECTRICAL	MOC	15
	HP	3/4
	VOLT	115
	PH	1
ACCESSORIES		SEE NOTES 1,2,3,4,5
REMARKS		460 CFM OSA

NOTES: 1. THROWAWAY FILTERS
2. ROUTE DRAIN TO SANITARY. TERMINATE OPEN SITE
3. SEVEN DAY PROGRAMMABLE THERMOSTAT
4. CONCENTRIC VENT ASSEMBLY
5. 95% EFFICIENT

CONDENSING UNIT SCHEDULE		ACCU-1
MARK		ACCU-1
LOCATION		SAME AS EXISTING
SERVICE		-
SEER		18
CAPACITY	TOTAL	49.4
	SENSIBLE	45.7
COMPRESSOR	STAGE	1
	AMPS	27.6
FAN	QUANTITY	1
	FLA	2.5
ELECT.	VOLT	240
	PHASE	1
	HERTZ	60
ACCESSORIES	MOC	35
		SEE NOTES
REMARKS		MATCH UNIT TO F-1

NOTES: 1. DISCONNECT
2. SERVICE VALVES
3. FILTER DRIER
4. SIGHT GLASS
5. 4" CONCRETE HOUSEKEEPING PAD
6. ACCUMULATOR
7. CONVENIENCE OUTLET

AIR DEVICE SCHEDULE				
MARK	1	2	3	4
TYPE	TITUS TMS	TITUS TMS	TITUS 50F	TITUS 50F
SERVICE	SUPPLY	SUPPLY	RETURN	RETURN
MAXIMUM CFM	250	400	950	350
MAX. APD (IN. WG)	0.103	0.160	0.095	0.095
THROW (FT/50 FPM)	7	11	-	-
MAXIMUM NC	16	29	29	22
ADAPTER SIZE	-	-	-	-
NOMINAL NECK SIZE	8" DIA.	10" DIA.	18 X 12	14 X 6
MODULE SIZE	24 X 24	24 X 24	24 X 24	24 X 24
PATTERN	4-WAY	4-WAY	EGG CRATE	EGG CRATE
FRAME	LAY-IN	LAY-IN	LAY-IN	LAY-IN
FINISH	OFF WHITE	OFF WHITE	OFF WHITE	OFF WHITE
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
ACCESSORIES				
REMARKS				

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SCHEMATIC LEGEND

	NORMALLY OPEN (N.O.) RELAY CONTACT
	NORMALLY CLOSE (N.C.) RELAY CONTACT
	STARTER COIL, * = STARTER NUMBER
	OVERLOAD RELAY CONTACT
	CONTROL RELAY, * = CONTROL RELAY NUMBER
	TIME DELAY RELAY, * = DEVICE NUMBER, ** = TIME SETTING
	CLOSED SWITCH WITH TIME DELAY OPENING
	OPEN SWITCH WITH TIME DELAY CLOSING
	CLOSED SWITCH WITH TIME DELAY CLOSING
	OPEN SWITCH WITH TIME DELAY OPENING
	PILOT LIGHT, (P) = LETTER DENOTING COLOR, E.G. R=RED, G=GREEN, A=AMBER, W=WHITE
	HORN
	SOLENOID VALVE, * = SOLENOID VALVE NUMBER
	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)
	2-POSITION SELECTOR SWITCH
	N.C. (STOP) } PUSHBUTTONS
	N.O. (START) }
	N.C. } PRESSURE SWITCHES
	N.O. }
	N.C. } LEVEL SWITCHES
	N.O. }
	N.C. } THERMAL SWITCHES
	N.O. }
	N.C. } FLOW SWITCHES
	N.O. }
	N.C. } LIMIT SWITCHES
	N.O. }
	N.C. } PROXIMITY SWITCHES
	N.O. }
	CONNECTOR, DISCONNECT DEVICE
	TIME CLOCK
	PHOTOCELL
	TERMINAL BLOCK, * = TERMINAL NUMBER
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER
	RUN TIME METER, HOUR METER
	CIRCUIT BREAKER
	FUSE
	CONTROL POWER TRANSFORMER
	INTERNAL PANEL WIRING OR DEVICES
	FIELD WIRING OR DEVICES

1

ONE-LINE LEGEND

	TRANSFORMER
	ELECTRIC UTILITY METER AND BASE
	GENERATOR
	AUTOMATIC TRANSFER SWITCH (N=NORMAL, E=EMERGENCY, L=LOAD)
	POWER MONITOR
	SURGE PROTECTION DEVICE
	CIRCUIT BREAKER (MAGNETIC ONLY)
	CIRCUIT BREAKER (THERMAL MAGNETIC)
	KEY INTERLOCK
	GROUND (CHASSIS, BUS OR AT EARTH POTENTIAL)
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	MOTOR SINGLE PHASE
	MOTOR THREE PHASE
	REMOTE CONTROL STATION
	HEAVY DUTY ENCLOSED SAFETY SWITCH FUSED DISCONNECT
	HEAVY DUTY ENCLOSED SAFETY SWITCH NON FUSED DISCONNECT
	COMBINATION CIRCUIT BREAKER WITH OVERLOAD PROTECTION #=SIZE
	PANELBOARD WITH MAIN CIRCUIT BREAKER
	PANELBOARD WITH MAIN LUGS
	VARIABLE FREQUENCY DRIVE

LIGHTING SYMBOLS

	LIGHT FIXTURE (2x4) FX = FIXTURE NUMBER (TYP.) CKT = CIRCUIT NUMBER (TYP.)
	EMERGENCY LIGHT FIXTURE INCLUDE AN UNSWITCHED HOT LEG
	LIGHT FIXTURE (1x4)
	LIGHT FIXTURE (2x2)
	RECESSED CAN LIGHT
	STRIP FIXTURE
	WALL MOUNTED EMERGENCY LIGHT
	EXIT SIGN WITH DIRECTIONAL ARROW SHADED AREA DENOTES VIEWED FACE
	EXTERIOR BUILDING WALL PACK
	CEILING MOUNTED 360° DUAL TECH OCCUPANCY SENSOR
	PHOTOCELL WITH LIGHT LEVEL SELECTION

2

ELECTRICAL DEVICES

	DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE
	SINGLE RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	AC - ABOVE COUNTER NONE - 20 AMP 125VAC GFCI - GROUND FAULT CIRCUIT INTERRUPTER TYPE WP - WEATHER PROOF TYPE ES - ENERGY SAVING XX - RECEPTACLE CIRCUIT NUMBER XXX - "XX" HEIGHT ABOVE FINISHED FLOOR
	VOICE ONLY OUTLET
	VOICE ONLY OUTLET WALL MOUNTED
	DATA/VOICE OUTLET
	DATA OUTLET
	WIRELESS ACCESS POINT
	CEILING MOUNTED DEVICE
	FLOOR MOUNTED DEVICE (DUPLEX RECEPTACLE SHOW)
	FLOOR BOX ONLY
	FLOOR BOX (POWER AND DATA)
	TELEVISION OUTLET
	TOGGLE SWITCH, 20 AMP, 120/277 VAC
	TOGGLE SWITCH, 3-WAY
	TOGGLE SWITCH, 4-WAY
	LOW VOLTAGE LIGHTING CONTROL SWITCH
	ADJACENT LETTERS TO THE SYMBOL INDICATES THE FOLLOWING: OS - OCCUPANCY SENSOR (WALL MOUNTED) D - DIMMABLE 1 - ONE CHANNEL "ON/OFF" CONTROL 2 - TWO CHANNEL "ON/OFF" CONTROL
	MANUAL MOTOR STARTER/DISCONNECT WITH OVERLOADS AND LOCKOUT PROVISIONS. (NUMBER OF POLES AS REQUIRED PER MOTOR) XP - EXPLOSION PROOF

3

SECURITY & ACCESS CONTROL

	FIXED POSITION CCTV CAMERA EX = EXTERIOR
	PAN-TILT-ZOOM CCTV CAMERA EX = EXTERIOR
	DOOR BUZZER
	DOOR RELEASE BUTTON
	ELECTRIC DOOR STRIKE
	SECURITY CARD READER
	COMBINATION CARD READER WITH KEY PAD
	SECURITY DOOR REQUEST TO EXIST
	SECURITY EXIT PUSHBUTTON
	SECURITY DOOR CONTACTS
	ELECTRIC POWER TRANSFER
	PUSH PLATE
	DOOR SWITCH - DOOR POSITION MONITORING POINT
	JUNCTION BOX

3

GENERAL PLAN SYMBOLS

	SWITCHGEAR, SWITCHBOARD OR MOTOR CONTROL CENTER, DASHED LINES INDICATE FUTURE
	BRANCH PANELBOARD AND CABINET, SURFACE MOUNTED
	BRANCH PANELBOARD AND CABINET, FLUSH MOUNTED
	FUSED DISCONNECT SWITCH HEAVY DUTY
	NON-FUSED DISCONNECT SWITCH HEAVY DUTY
	COMBINATION MAGNETIC MOTOR STARTER
	CONDUCTORS IN CONDUIT, #12 AWG AND 3/4" CONDUIT MINIMUM, ARROW INDICATES HOMERUN
	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
	CONDUIT CAPPED
	EXPLOSION PROOF CONDUIT SEAL
	JUNCTION BOX
	GROUND ROD
	CABLE TRAY

FIRE ALARM SYSTEM

	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	KNOX BOX (PER CITY'S REQUIREMENTS)
	DETECTOR, SMOKE SENSOR
	DETECTOR, HEAT AND RATE OF RISE
	FIRE ALARM STATION MANUAL PULL
	RESCUE ASSISTANCE STATION (AREA REFUGE)
	DUCT DETECTOR, SMOKE
	SPRINKLER TAMPER SWITCH DETECTION
	SPRINKLER FLOW SWITCH DETECTION
	COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICE (WP INDICATED WEATHER PROOF)
	VISUAL ONLY NOTIFICATION DEVICE
	2/C #16 TWISTED PAIR CABLE IN CONDUIT (SLC ADDRESSABLE DATA CIRCUIT)
	2/C #14 TWISTED PAIR CABLE (FPLP) FIRE ALARM CABLE (SIGNAL/CONTROL CIRCUIT) IN CONDUIT

SITE PLAN SYMBOLS

	PAD MOUNTED TRANSFORMER
	POWER POLE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED UNDERGROUND ELECTRIC
	ELECTRIC MANHOLE
	ELECTRIC HANDHOLE
	LIGHT FOUNDATION, POLE AND FIXTURE S"X" - SITE FIXTURE NUMBER

4

GENERAL NOTES

- THIS IS A STANDARD ELECTRICAL SYMBOL SHEET, SOME OF THE SYMBOLS NOTED HERE MAY NOT BE REQUIRED FOR THE PROJECT, AND THEREFORE MAY NOT BE USED ON THE PLANS.
- THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS AND REFERENCE DRAWINGS, WHICH WOULD AFFECT THEIR WORK UNDER THIS CONTRACT. SEE SPECIFICATION MANUAL FOR DETAILED INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (CURRENT LOCAL VERSION IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTINGS (OR THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- ALL NEW ELECTRICAL EQUIPMENT, CABLES, CONDUIT, HANDHOLES, JUNCTION BOXES AND APPURTENANCES SHOWN ON PLANS IS DIAGRAMMATIC. PROPOSED ROUTING OF CONDUITS, AS SHOWN ON THE PLANS, IS FOR INFORMATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL CONDUIT ROUTING AS REQUIRED BY THE EQUIPMENT TERMINATION LOCATIONS.
- CONTRACTOR SHALL MAINTAIN ALL FIRE RATED WALLS. SEE ARCHITECTURAL SHEETS FOR FIRE RATINGS. FIRE SEAL SHALL BE PER SPECIFICATION SECTION 26 05 33, 2.02, A.
- THE CONDUIT IN FINISHED SPACES (OFFICE, HALLWAY AND RESTROOMS) MAY BE ELECTRIC METALLIC TUBING. CONDUIT IN UNFINISHED SPACES (MECH ROOM OR SHOP AREA) TO BE EITHER GALVANIZED RIGID STEEL OR ALUMINUM TYPE.
- THE ELECTRICAL MATERIAL SHALL BE NEW AND OF THE TYPE AND KINDS APPROVED BY THE FOLLOWING ORGANIZATIONS:
 - A. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - B. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
 - C. ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
 - D. UNDERWRITERS LABORATORIES
 - E. AMERICAN STANDARD INSTITUTE
 - F. INSULATED POWER CABLE ENGINEERS ASSOCIATION



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OWNER

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TREMONT, IL

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PROJECT NO: 22001132-02

CAD DWG FILE: E-001

DESIGNED BY: JRV

DRAWN BY: JRV

CHECKED BY: LDW

APPROVED BY: -

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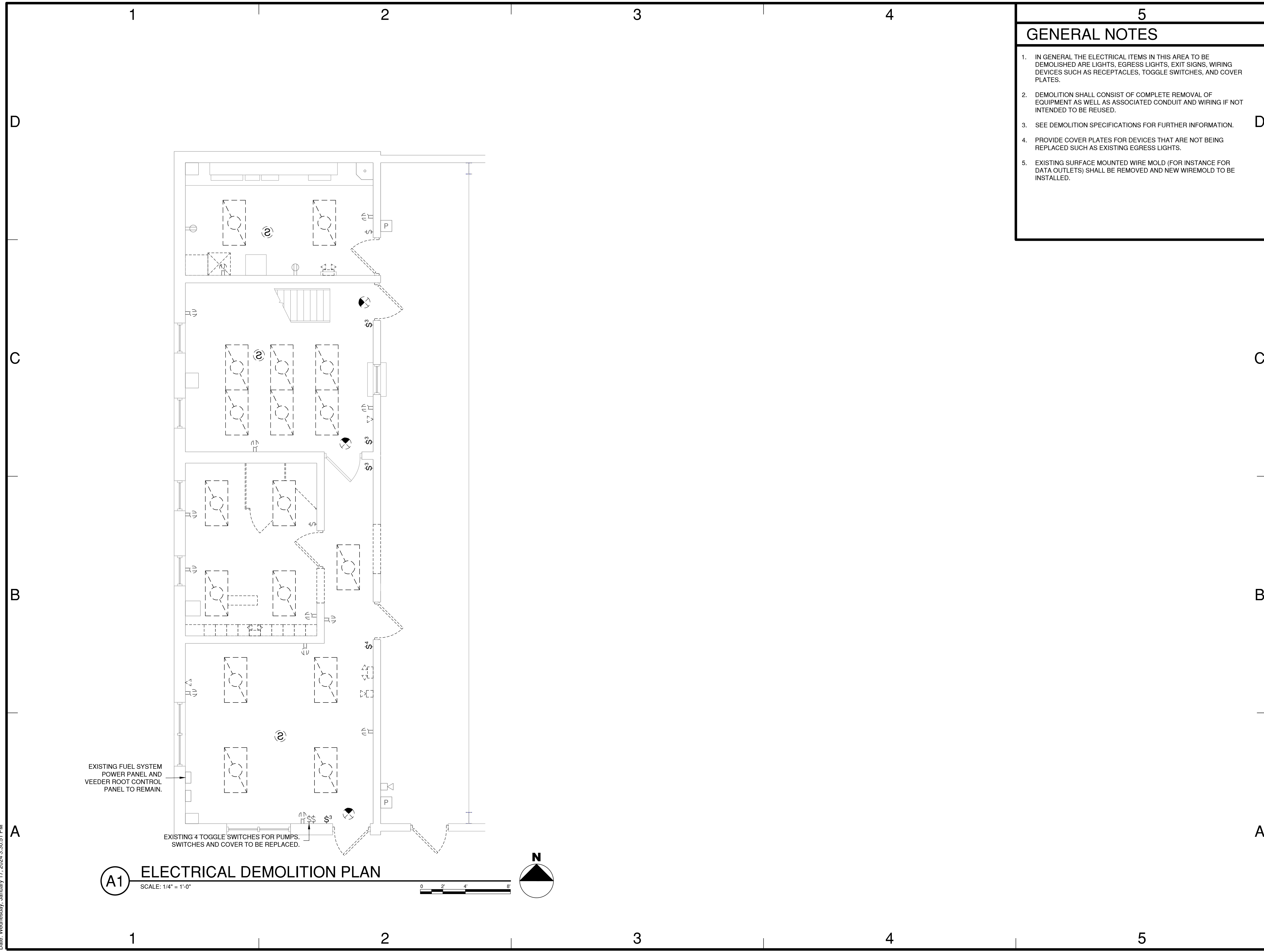
SHEET TITLE

ELECTRICAL
STANDARD LEGEND
AND GENERAL NOTES

E-001.1

SHEET 15 OF 34

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GENERAL NOTES

1. IN GENERAL THE ELECTRICAL ITEMS IN THIS AREA TO BE DEMOLISHED ARE LIGHTS, EGRESS LIGHTS, EXIT SIGNS, WIRING DEVICES SUCH AS RECEPTACLES, TOGGLE SWITCHES, AND COVER PLATES.
2. DEMOLITION SHALL CONSIST OF COMPLETE REMOVAL OF EQUIPMENT AS WELL AS ASSOCIATED CONDUIT AND WIRING IF NOT INTENDED TO BE REUSED.
3. SEE DEMOLITION SPECIFICATIONS FOR FURTHER INFORMATION.
4. PROVIDE COVER PLATES FOR DEVICES THAT ARE NOT BEING REPLACED SUCH AS EXISTING EGRESS LIGHTS.
5. EXISTING SURFACE MOUNTED WIRE MOLD (FOR INSTANCE FOR DATA OUTLETS) SHALL BE REMOVED AND NEW WIREMOLD TO BE INSTALLED.



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JANUARY, 2024

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TREMONT, IL

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PROJECT NO:	22001132-02
CAD DWG FILE:	ED-101.DWG
DESIGNED BY:	JRV
DRAWN BY:	JRV
CHECKED BY:	LDW
APPROVED BY:	-
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SHEET TITLE
**ELECTRICAL
DEMOLITION PLAN**

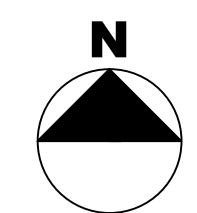
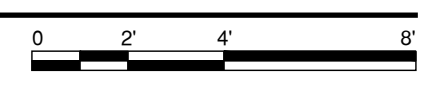
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SHEET 16 OF 34

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 Date: Wednesday, January 17, 2024 3:30:55 PM



(A1) ELECTRICAL LIGHTING PLAN
 SCALE: 1/4" = 1'-0"



5

GENERAL NOTES

- SEE LIGHT FIXTURE SCHEDULE FOR FURTHER INFORMATION.
- THE CONTRACTOR MAY USE THE EXISTING LIGHTING CIRCUITS IF AVAILABLE. EXTEND CONDUIT AND WIRING AND REWIRE AS REQUIRED. THE CONTRACTOR SHALL INSTALL AN UNSWITCHED CONDUCTOR TO EMERGENCY EGRESS TYPE LIGHT FIXTURES.
- MENS AND WOMENS RESTROOM TO BE WIRED TO OCCUPANCY SENSOR FOR LIGHTING TO SHUT OFF AFTER SPACE IS NOT OCCUPIED FOR 15 MINUTES.

KEYED NOTES

- CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, WATTSTOPPER DT-300 SERIES OR EQUAL.
- WALL SWITCH OCCUPANCY SENSOR FOR MANUAL "ON" DUAL TECHNOLOGY, WATTSTOPPER DSW-301 OR EQUAL.
- USE SAME CIRCUIT AS OTHER FIXTURES LOCATED IN RESPECTIVE ROOM.



License No. 184-00613
 CONSULTANTS

BID DOCUMENTS
 JANUARY, 2024

TAZEWELL COUNTY
 HIGHWAY DEPARTMENT
 BUILDING REPAIRS:

OFFICE RENOVATION

OWNER

CRAWFORD, MURPHY AND
 TILLY, INC.
 TREMONT, IL

MARK	DATE	DESCRIPTION

PROJECT NO:	22001132-02
CAD DWG FILE:	E-101.DWG
DESIGNED BY:	JRV
DRAWN BY:	JRV
CHECKED BY:	LDW
APPROVED BY:	-
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SHEET TITLE
**ELECTRICAL
 LIGHTING PLAN**

E-101.1

SHEET 17 OF 34



License No. 184-00613
CONSULTANTS

BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:
OFFICE RENOVATION
OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
TREMONT, IL

MARK DATE DESCRIPTION
PROJECT NO: 22001132-02
CAD DWG FILE: E-601.DWG
DESIGNED BY: JRV
DRAWN BY: JRV
CHECKED BY: LDW
APPROVED BY: -
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SHEET TITLE
ELECTRICAL
SCHEDULES

E-601.1

SHEET 19 OF 34

PANELBOARD SCHEDULE													
PANEL DESIGNATION: EXISTING PANEL 2 BOND NEUTRAL AND GROUND BAR: NO POLE: 30													
LOCATION: MECHANICAL 105 NEUTRAL BUS RATING: 100% SHORT CIRCUIT RATING: 10KA													
MFR & TYPE: SQ D I-LINE SERVICE ENTRANCE RATED: NO SERIES OR FULLY RATED: FULLY													
SPD & DISCONNECT REQUIRED: NO													
VOLTS: 120/240 MOUNTING: SURFACE BUS RATING (AMPS): 600													
PHASE: 1 ENCL RATING: NEMA 1 BUS: COPPER; SILVER OR TIN PLATED													
WIRE: 3 MAIN CIRCUIT BREAKER: MLO													
CKT NO.	LOAD	BREAKER SIZE	LOAD AMPS	USAGE FACTOR	PHASE AMPS A B	POLE NO. 1 2	PHASE AMPS A B	USAGE FACTOR	LOAD AMPS	BREAKER SIZE	LOAD	CKT NO.	
1	RETRO VEND	20/1			0	1 2	0			20/1	CP RECTIFIER	2	
3	RECEPT IN FRONT OFFICE	20/1			0	3 4	0			20/1	CEILING FANS	4	
5	WATER HEATER	20/1			0	5 6	0			20/1	GEN BATTERY CHARGER	6	
7	CONTROL ROOM LIGHTS	20/1			0	7 8	0			20/1	GEN HEATER	8	
9	STAIRWELL LIGHTS	20/1			0	9 10	0			20/1	PIT LIGHTS/BATHROOM LIGHTS	10	
11	SHOP LIGHTS	20/1			0	11 12	0			20/1	RECEPT IN BACK OFFICE	12	
13	ICE MACHINE	20/2			0	13 14	0			20/1	AUTO STICK EXTERNAL ALARM	14	
15	POP MACHINE	20/1			0	15 16	0			20/1	FIRE ALARM PANEL	16	
17	PIT RECEIPT	20/1			0	17 18	0			20/1	RECEPT ON BACK SHOP WALL	18	
19	SHOP RECEIPT	20/1			0	19 20	0			20/1	PIT EX FAN & RECEIPT ON BACK SHOP WALL	20	
21	RECEPT ON MIDDLE SHOP WALL	20/1			0	21 22	0			20/1	FUEL OIL CIRCULATION PUMP	22	
23	RECEPT ON FRONT SHOP WALL	20/1			0	23 24	0			20/1	EXHAUST FAN IN STOP AREA	24	
25	PUMP ISLAND LIGHT	20/1			0	25 26	0			20/1	FUEL PANEL	26	
27	UPSTAIRS FURNACE	20/1			0	27 28	0			20/1	RESTROOM RECEIPT & BACK OFFICE LIGHTS	28	
29	DOWNSTAIRS FURNACE	20/1			0	29 30	0			20/1	EXIT & EMERGENCY LIGHTS	30	
29	UPSTAIRS EAST RECEIPT	20/1			0					20/1		30	
SECTION TOTAL:					0	0	0	0					
MINIMUM MAIN CIRCUIT BREAKER AMPS:					0		PHASE TOTAL AMPS:		0		TOTAL USAGE LOAD:		0 VA
							PHASE TOTAL VA:		0		MIN. XFMR VA:		0 VA

NOTES:
1. REPLACE CIRCUIT 17, 19 WITH 40A, 2 POLE CIRCUIT BREAKER FOR NEW UNIT.

PANELBOARD SCHEDULE													
PANEL DESIGNATION: EXISTING PANEL 1 BOND NEUTRAL AND GROUND BAR: NO POLE: 30													
LOCATION: MECHANICAL 105 NEUTRAL BUS RATING: 100% SHORT CIRCUIT RATING: 10KA													
MFR & TYPE: SERVICE ENTRANCE RATED: NO SERIES OR FULLY RATED: FULLY													
SPD & DISCONNECT REQUIRED: NO													
VOLTS: 120/240 MOUNTING: SURFACE BUS RATING (AMPS): ?													
PHASE: 1 ENCL RATING: NEMA 1 BUS: COPPER; SILVER OR TIN PLATED													
WIRE: 3 MAIN CIRCUIT BREAKER: MLO													
CKT NO.	LOAD	BREAKER SIZE	LOAD AMPS	USAGE FACTOR	PHASE AMPS A B	POLE NO. 1 2	PHASE AMPS A B	USAGE FACTOR	LOAD AMPS	BREAKER SIZE	LOAD	CKT NO.	
1	RETRO VEND	20/1			0	1 2	0			20/1	CP RECTIFIER	2	
3	RECEPT IN FRONT OFFICE	20/1			0	3 4	0			20/1	CEILING FANS	4	
5	WATER HEATER	20/1			0	5 6	0			20/1	GEN BATTERY CHARGER	6	
7	CONTROL ROOM LIGHTS	20/1			0	7 8	0			20/1	GEN HEATER	8	
9	STAIRWELL LIGHTS	20/1			0	9 10	0			20/1	PIT LIGHTS/BATHROOM LIGHTS	10	
11	SHOP LIGHTS	20/1			0	11 12	0			20/1	RECEPT IN BACK OFFICE	12	
13	ICE MACHINE	20/2			0	13 14	0			20/1	AUTO STICK EXTERNAL ALARM	14	
15	POP MACHINE	20/1			0	15 16	0			20/1	FIRE ALARM PANEL	16	
17	PIT RECEIPT	20/1			0	17 18	0			20/1	RECEPT ON BACK SHOP WALL	18	
19	SHOP RECEIPT	20/1			0	19 20	0			20/1	PIT EX FAN & RECEIPT ON BACK SHOP WALL	20	
21	RECEPT ON MIDDLE SHOP WALL	20/1			0	21 22	0			20/1	FUEL OIL CIRCULATION PUMP	22	
23	RECEPT ON FRONT SHOP WALL	20/1			0	23 24	0			20/1	EXHAUST FAN IN STOP AREA	24	
25	PUMP ISLAND LIGHT	20/1			0	25 26	0			20/1	FUEL PANEL	26	
27	UPSTAIRS FURNACE	20/1			0	27 28	0			20/1	RESTROOM RECEIPT & BACK OFFICE LIGHTS	28	
29	DOWNSTAIRS FURNACE	20/1			0	29 30	0			20/1	EXIT & EMERGENCY LIGHTS	30	
29	UPSTAIRS EAST RECEIPT	20/1			0					20/1		30	
SECTION TOTAL:					0	0	0	0					
MINIMUM MAIN CIRCUIT BREAKER AMPS:					0		PHASE TOTAL AMPS:		0		TOTAL USAGE LOAD:		0 VA
							PHASE TOTAL VA:		0		MIN. XFMR VA:		0 VA

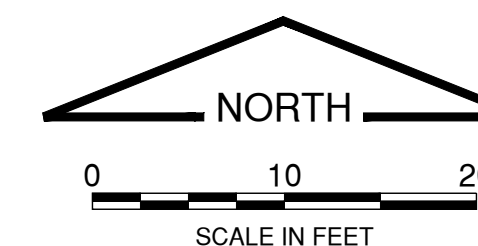
NOTES:

LIGHT FIXTURE SCHEDULE					
FIXTURE NO.	DESCRIPTION	MANUFACTURER	CATALOG MODEL NO.	LAMP	LOCATION & MOUNTING
EX	DIE CAST ALUMINUM EXIT SIGN, MATTE BLACK HOUSING COLOR WITH BRUSHED ALUMINUM FACE, RED LETTER COLOR	LITHONIA	LQC-"X"-R-EL N WHERE "X" INDICATES THE NUMBER OF FACES	LED	SURFACE OR CEILING MOUNTED
		LIGHT ALARMS	"X"-XDN-B-RA WHERE "X" INDICATES THE NUMBER OF FACES		
		ISOLITE	TLMR2-EM-R-"X"-BA WHERE "X" INDICATES THE NUMBER OF FACES		
F1	2X4 TROFFER FIXTURE, 4000 LUMENS, ACRULIC CURVED SMOOTH DIFFUSER, 120-277V, 0-10V DIMMING AND DIMS TO 10%, 400K COLOR TEMPERATURE, 80 CRI	LITHONIA	2BLT4-40L-ADSM-GZ10-LP840	LED	DROP CEILING
		SIGNIFY	2-EV-G-43L-840-4-RS-UNV-DIM		
		WILLIAMS	PT-2-4-L49-8-40-RA-UNV		
F1E	2X4 FIXTURE, 4000 LUMENS, ACRULIC CURVED SMOOTH DIFFUSER, 120-277V, 0-10V DIMMING AND DIMS TO 10%, 400K COLOR TEMPERATURE, 80 CRI, BATTERY PACK	LITHONIA	2BLT4-40L-ADSM-GZ10-LP840-EL14LSD	LED	DROP CEILING
		SIGNIFY	2-EV-G-43L-840-4-RS-UNV-DIM-EMLED		
		WILLIAMS	PT-2-4-L49-8-40-RA-EM/10W-UNV		

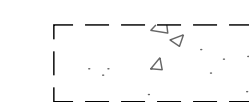
LIGHTING CONTROL SCHEDULE	
DESCRIPTION	ROOM
MANUAL ON, AUTO-OFF BY CEILING OCCUPANCY SENSOR AND WALL OCCUPANCY SWITCH	MEN'S RESTROOM 102
MANUAL ON, AUTO-OFF BY WALL SWITCH WITH OCCUPANCY SENSOR AND DIMMING	WOM. RESTROOM 103
ON-OFF TOGGLE SWITCH	OPERATIONS OFFICE 101 TOOLS/PARTS 104 MECHANICAL 105

NOTES:
1. THE OCCUPANCY SENSORS TO BE PROGRAMMED FOR AUTO "OFF" AFTER 15 MINUTES OF INACTIVITY.
2. OCCUPANCY SENSORS TO BE DUAL TECHNOLOGY.

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Date: Wednesday, January 17, 2024 3:31:09 PM



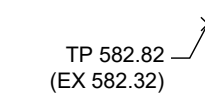
PLAN LEGEND



NEW HEAVY-DUTY REINFORCED CONCRETE (PCC) PAVEMENT - 8" PCC / 4" AGG BASE
SEE DETAIL A1/C-501

TP

TOP OF PAVEMENT ELEVATION



PROPOSED / NEW ELEVATION
(EXIST ELEVATION INTERPOLATED FROM SURVEY)

PLAN GENERAL NOTES:

- UNLESS OTHERWISE SPECIFIED WITHIN THE PROJECT SPECIFICATIONS OR DETAILS, ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED BY IDOT, LATEST EDITION. FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION, THE "STANDARD SPECIFICATION FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," LATEST EDITION, SHALL GOVERN. DELETE ALL REFERENCES TO METHOD OF PAYMENT AND ENGINEER'S AUTHORITY DURING CONSTRUCTION.
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY / STATE / FEDERAL / COUNTY REGULATIONS, CODES AND O.S.H.A. REGULATIONS.
- ACCESS TO ONE SIDE OF THE EXISTING GAS PUMPS IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

CONTROL POINT COORDINATE TABLE
(NAD 83 SPC IL WEST)

CP #	DESCRIPTION	NORTHING	EASTING
CP #2121	REBAR	1410562.942	2476992.079
CP #2072	REBAR	1410585.126	2476548.986
CP #1	MAG	1410804.366	2476891.353

THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE HORIZONTAL & VERTICAL CONTROL AS SHOWN ON THE PLANS BEFORE CONSTRUCTION COMMENCES. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

BENCHMARKS

BM #	DESCRIPTION	NAVD 1988 DATUM ELEV
BM #1	TOP E. SIDE GAS PUMP ISLAND (CUT "X")	653.61
CP #1	MAG NAIL LOCATION IN AGG LOT; 11.2 FT W. OF SW CORNER OF 4-BAY DOOR "CECO" METAL BUILDING	654.83

BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK | DATE | DESCRIPTION

PROJECT NO: 22001132-03

CAD DWG FILE: 02-C101-SITE PLAN.DWG

DESIGNED BY: RSH

DRAWN BY: RSH

CHECKED BY: CJS

APPROVED BY: CJS

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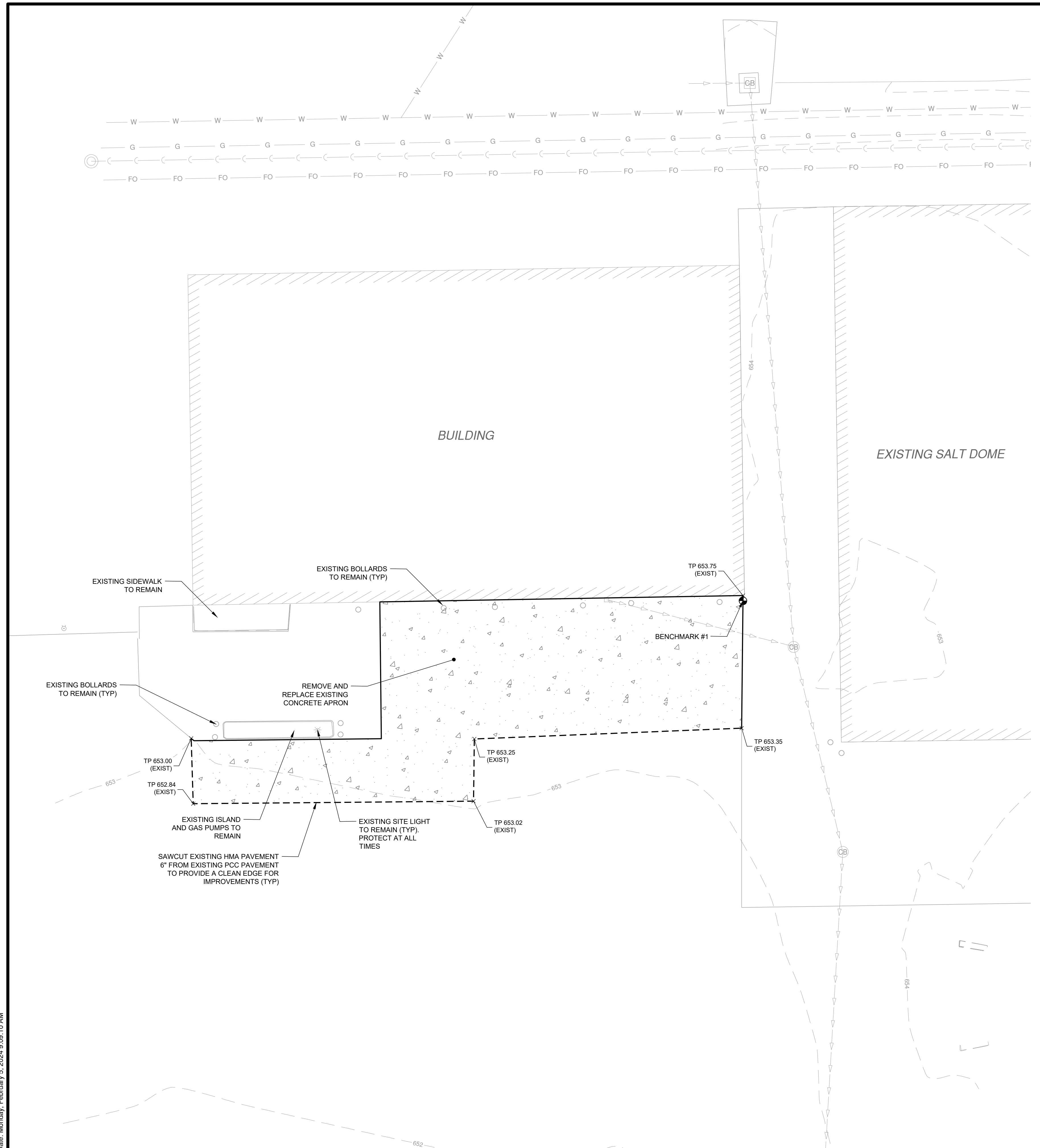
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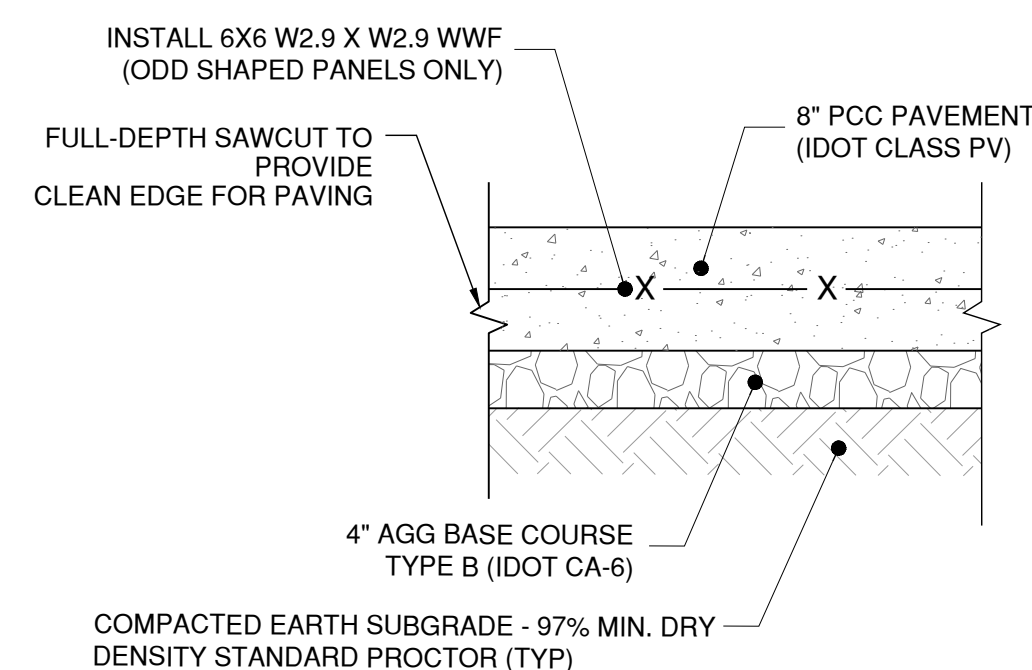
SITE PLAN

C-101.2

SHEET 21 OF 34

Path: L:\Tazewell\CA\22001132-03_ShopBuildingGarageImp\Draw\Roadway\CADD_Sheets\02-C101-Site Plan.dwg
Date: Monday, February 5, 2024 9:09:10 AM





HEAVY DUTY CONCRETE (PCC) PAVING

GENERAL NOTES

1. ALL MATERIALS SHALL MEET OR EXCEED THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. REFER TO SITEWORK SPECIFICATIONS FOR SUBGRADE PREPARATION.
3. TYPES AND LOCATIONS OF PAVEMENT JOINTS SHALL CONFORM TO SITEWORK SPECIFICATIONS AND CONSTRUCTION DETAILS.
4. REFER TO DETAIL A2/C-501 FOR CONCRETE PAVEMENT JOINT DETAILS.
5. SUBGRADE & SUBBASE SHALL BE PROOFROLLED TO IDENTIFY ANY AREAS OF STABILIZATION REQUIRED. SEE SITE SPECS FOR MORE INFORMATION.

SITE PAVING DETAILS

N.T.S.

A1

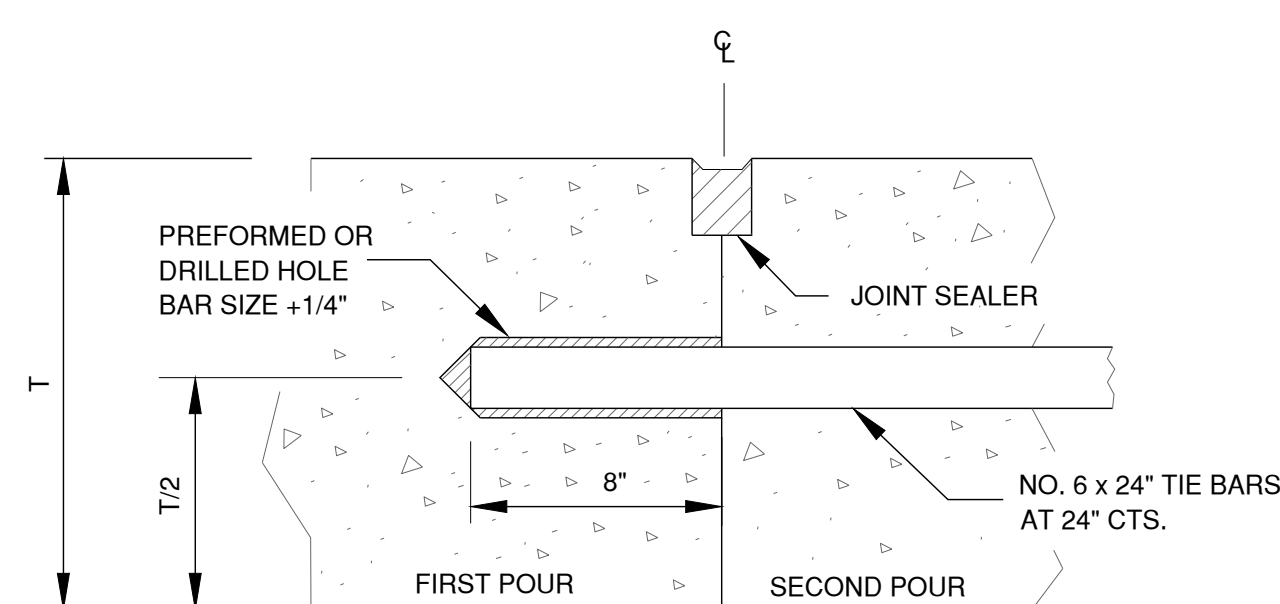
BID DOCUMENTS
JANUARY, 2024

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

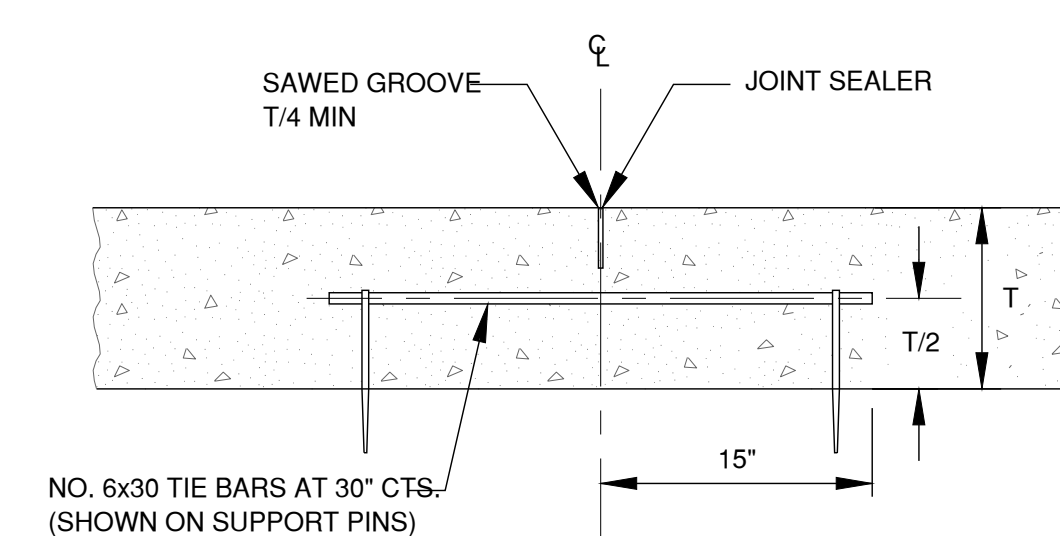
OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL



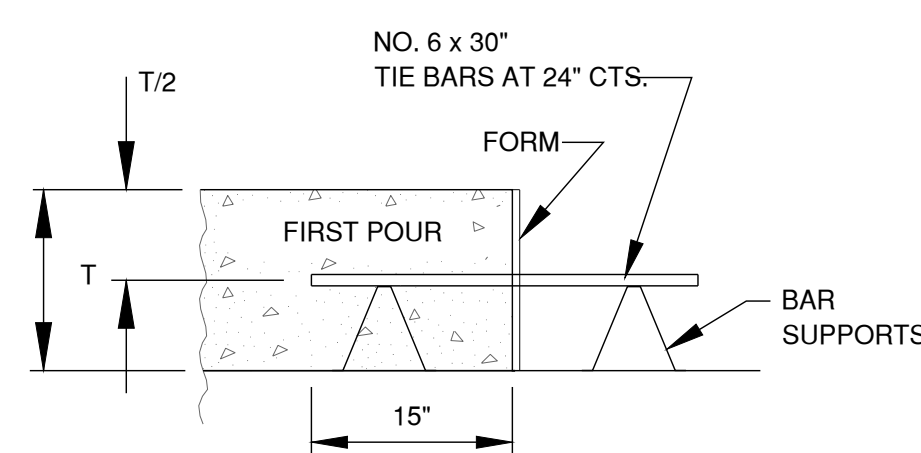
TIED CONSTRUCTION JOINT

(TIE BAR GROUTED IN PLACE)



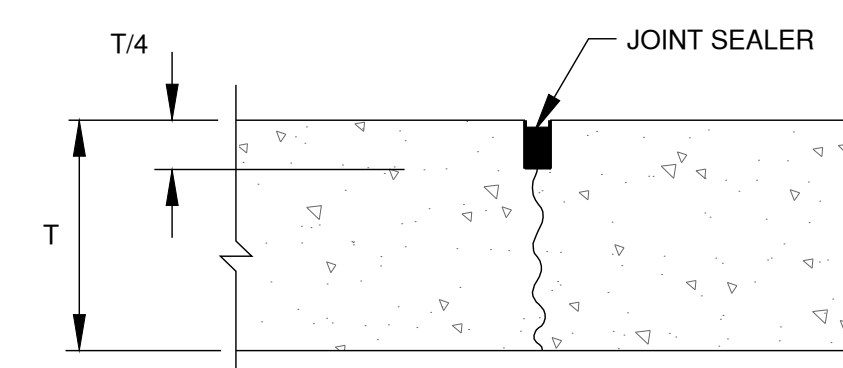
TIED SAWCUT CONTRACTION JOINT

N.T.S.



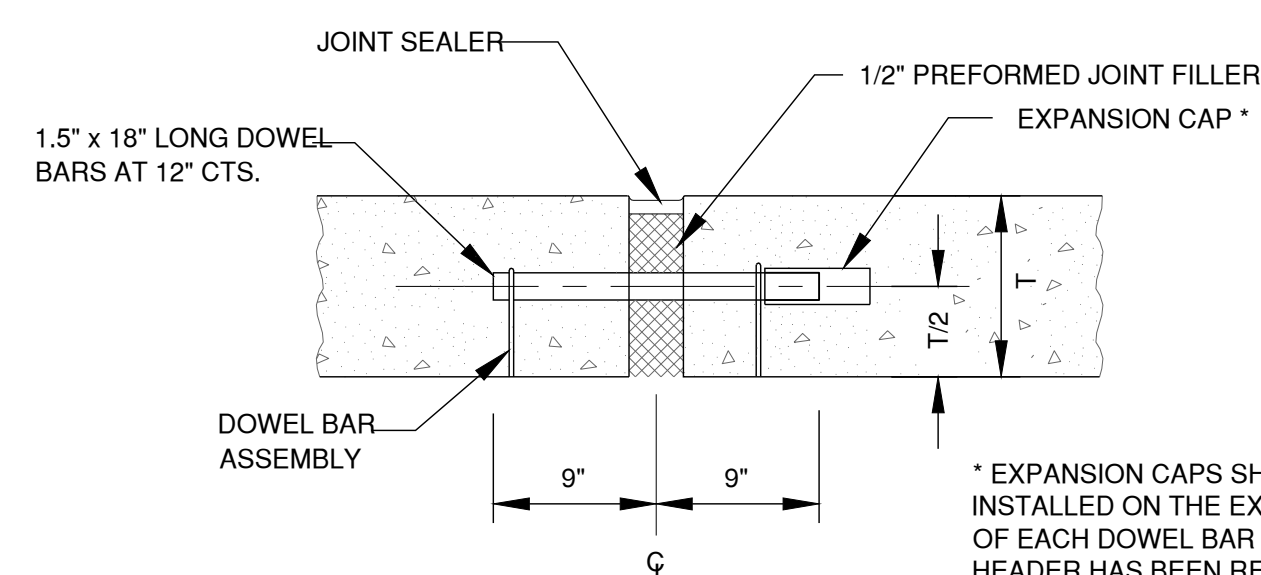
TIED CONSTRUCTION JOINT

(TIE BAR FORMED IN PLACE)



SAWCUT CONTRACTION JOINT

N.T.S.



EXPANSION JOINT

N.T.S.

* EXPANSION CAPS SHALL BE INSTALLED ON THE EXPOSED END OF EACH DOWEL BAR ONCE THE HEADER HAS BEEN REMOVED AND THE JOINT FILLER MATERIAL HAS BEEN INSTALLED.

CONCRETE PAVEMENT JOINTS

N.T.S.

A2

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-03
CAD DWG FILE: 03-C501-CONSTRUCTION DETAILS.DWG
DESIGNED BY: RSH
DRAWN BY: RSH
CHECKED BY: CJS
APPROVED BY: CJS
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SHEET TITLE
**SITE CONSTRUCTION
DETAILS**

C-501.2

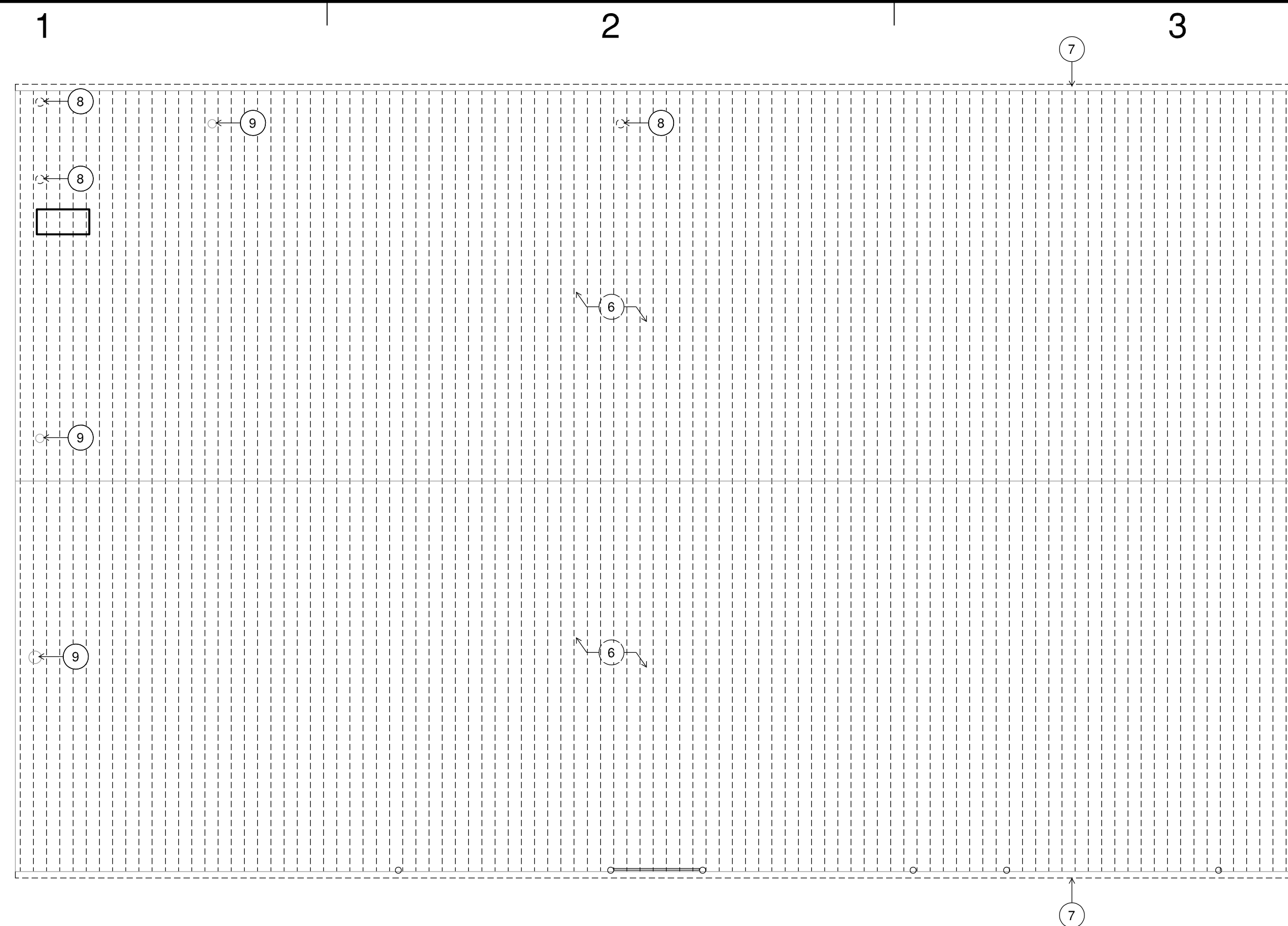
SHEET 22 OF 34

DEMOLITION GENERAL NOTES:

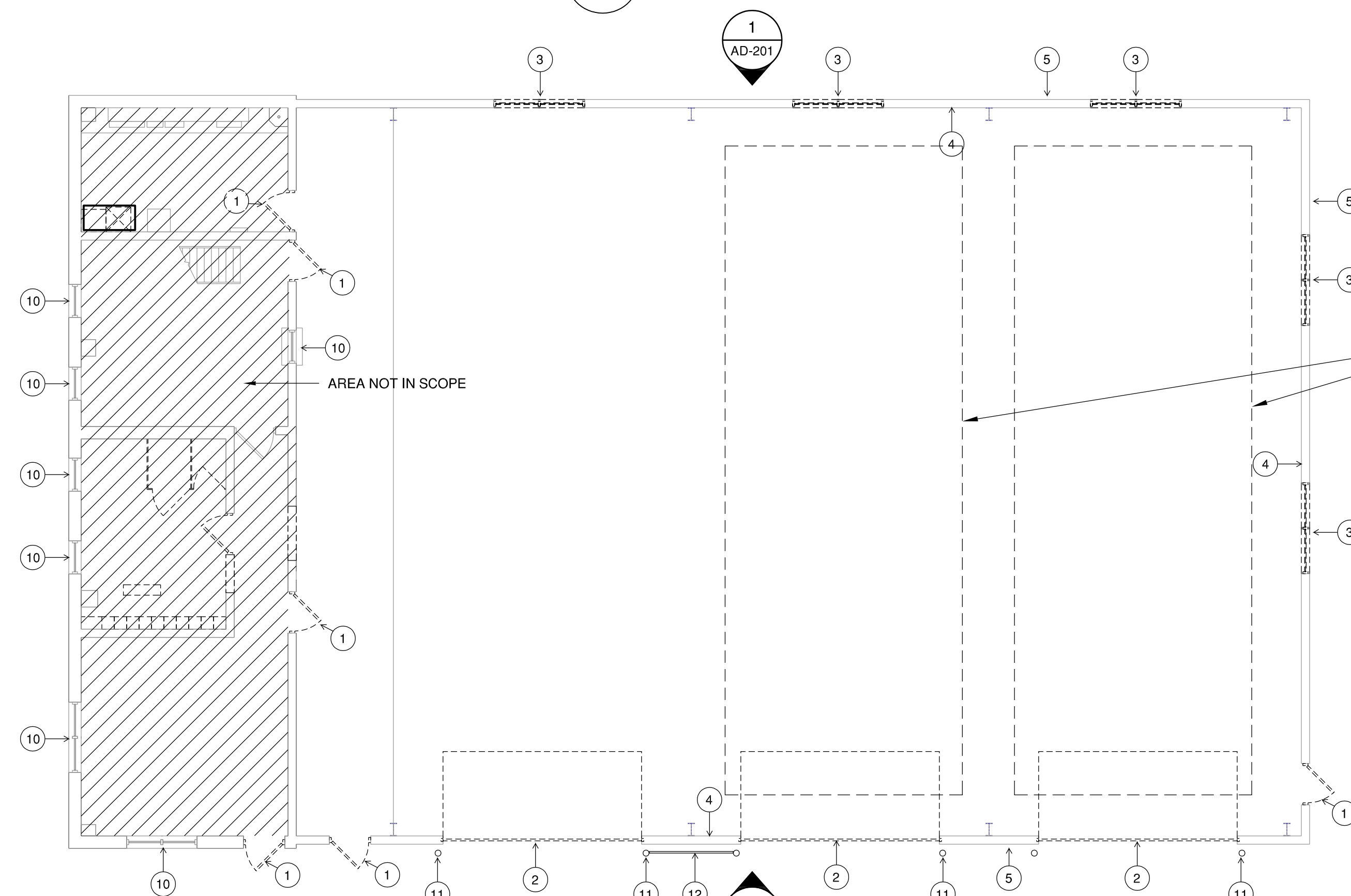
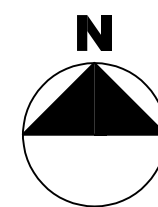
- TEMPORARILY REMOVE ALL UTILITIES & WALL-MOUNTED FIXTURES AS NECESSARY TO PERFORM WALL PANEL & INSULATION WORK

DEMOLITION KEYED NOTES:

- REMOVE DOOR & FRAME
- REMOVE OVERHEAD DOOR
- REMOVE WINDOW & FRAME
- REMOVE ALL SKRIM FACING, INSULATION & METAL LINER PANELS
- REMOVE ALL METAL WALL PANELS
- REMOVE ALL ROOF METAL PANELS & INSULATION
- REMOVE GUTTER & DOWNSPOUTS
- REMOVE ROOF VENT
- EXISTING ROOF VENT
- EXISTING WINDOW TO REMAIN
- EXISTING PIPE BOLLARDS TO REMAIN (TYP.)
- REMOVE & SALVAGE GUARDRAIL SECTIONS

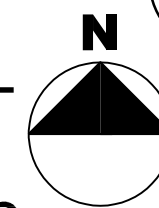


1 ROOF DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



NOTE:
AT LEAST ONE OF THE TWO
EASTERN BAYS SHALL REMAIN
IN OPERATION DURING THE
DURATION OF THE PROJECT.

2 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



BID DOCUMENTS
OCTOBER, 2023

TAZEVELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO:	22001132-02
CAD DWG FILE:	AD-101.DWG
DESIGNED BY:	GTF
DRAWN BY:	EAW
CHECKED BY:	GTF
APPROVED BY:	-
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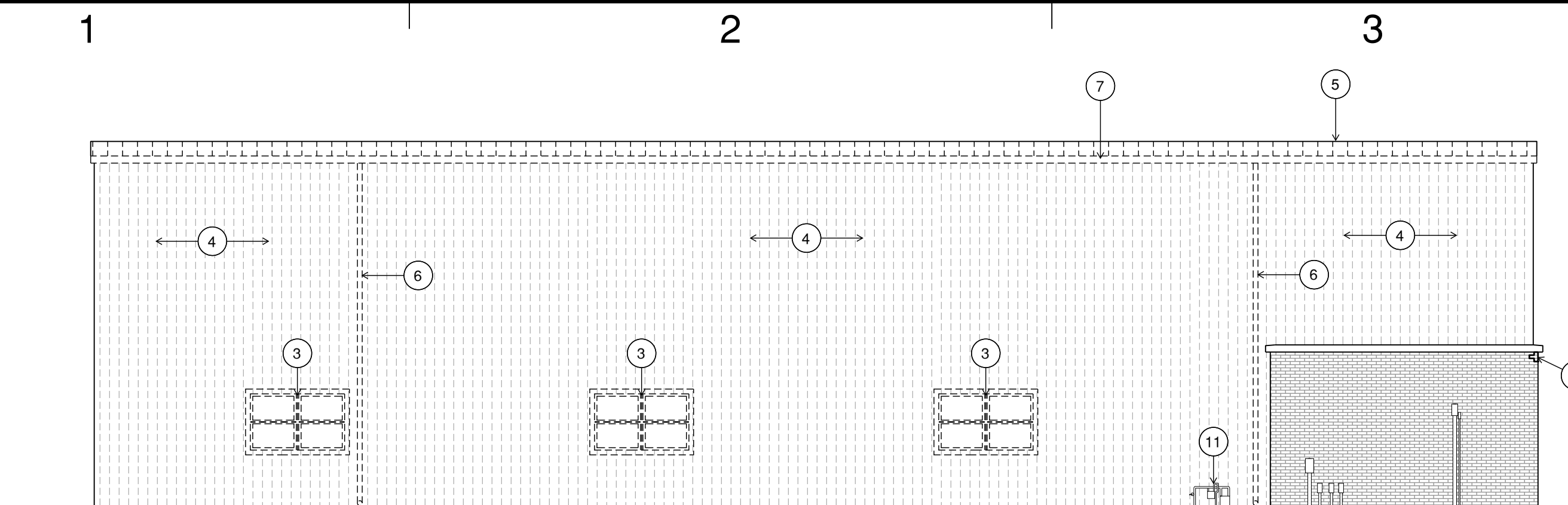
SHEET TITLE
**DEMOLITION FLOOR
PLAN & ROOF PLAN**

AD-101.2

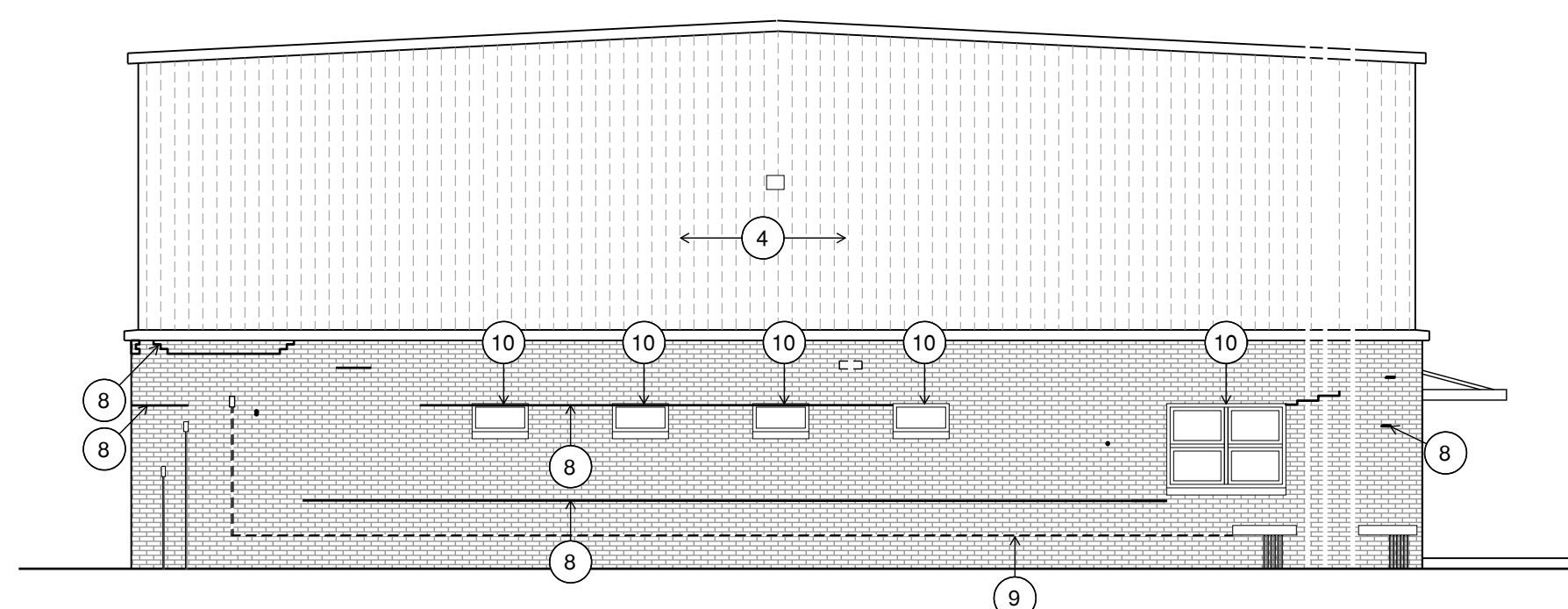
SHEET 23 OF 34

GENERAL NOTES:

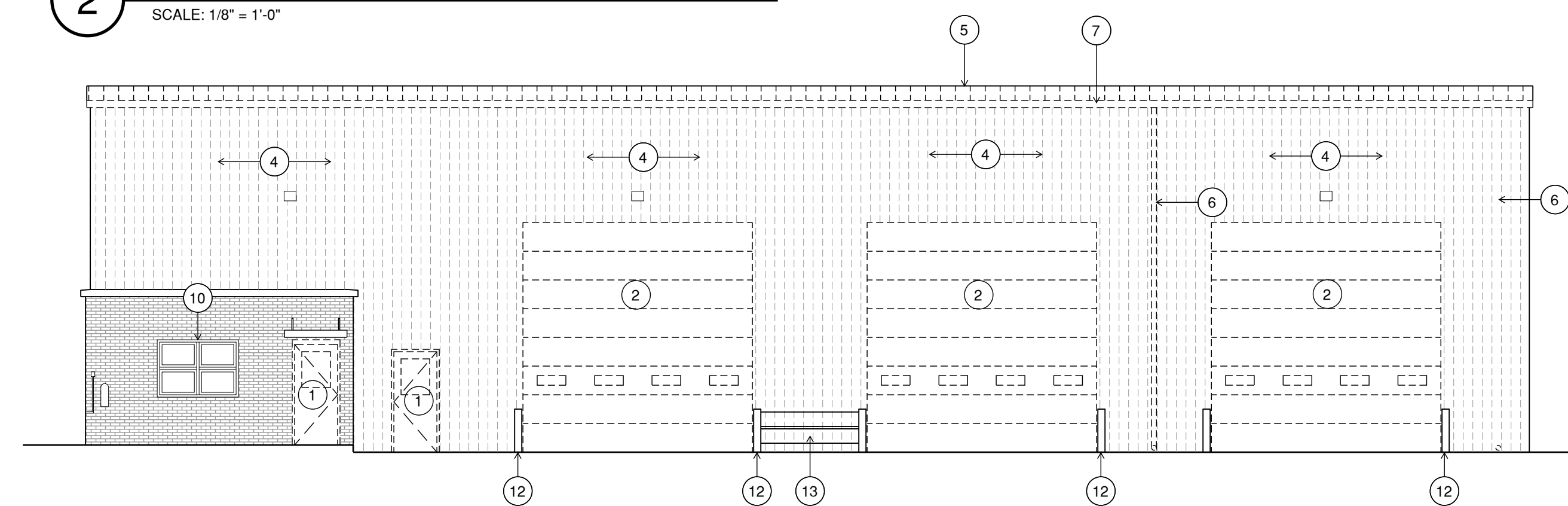
- TEMPORARILY REMOVE BRACKETS FROM UTILITY LINES THAT INTERFERE WITH REMOVAL OF EXISTING WALL PANELS OR REPOINTING OF MASONRY



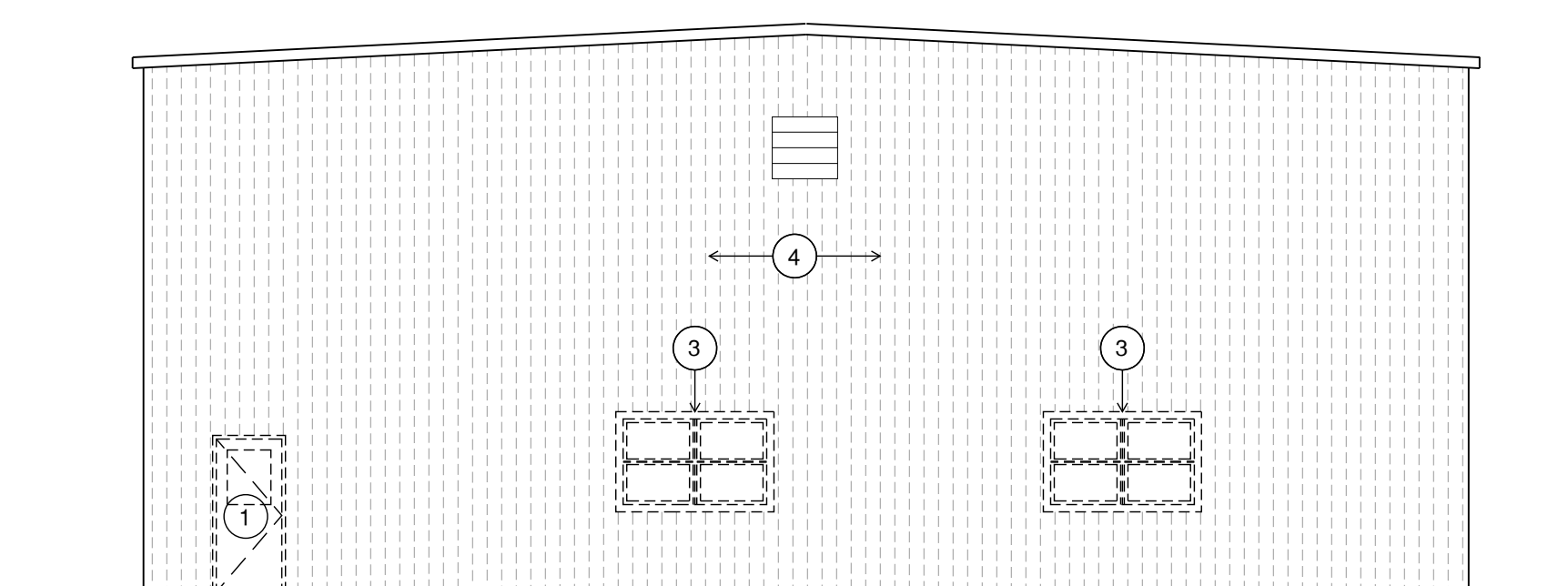
1 DEMOLITION: NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2 DEMOLITION: EAST ELEVATION
SCALE: 1/8" = 1'-0"



3 DEMOLITION: SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



4 DEMOLITION: WEST ELEVATION
SCALE: 1/8" = 1'-0"

DEMOLITION KEYED NOTES:

- REMOVE DOOR & FRAME
- REMOVE OVERHEAD DOOR
- REMOVE WINDOW & FRAME
- REMOVE METAL WALL PANELS
- REMOVE ROOF METAL PANELS & INSULATION
- REMOVE DOWNSPOUT
- REMOVE GUTTER
- REMOVE MASONRY / DETERIORATED MORTAR
- REMOVE UTILITY LINE
- EXISTING WINDOW TO REMAIN
- EXISTING GAS METER TO REMAIN
- EXISTING PIPE BOLLARDS TO REMAIN (TYP.)
- REMOVE & SALVAGE GUARDRAIL SECTIONS

BID DOCUMENTS
OCTOBER, 2023

TAZEVELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: AD-201.DWG

DESIGNED BY: GTF

DRAWN BY: EAW

CHECKED BY: GTF

APPROVED BY: -

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SHEET TITLE

DEMOLITION
EXTERIOR
ELEVATIONS

AD-201.2

SHEET 24 OF 34

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO:	22001132-02
CAD DWG FILE:	A-101.DWG
DESIGNED BY:	GTF
DRAWN BY:	EAW
CHECKED BY:	GTF
APPROVED BY:	-
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SHEET TITLE
FLOOR PLAN & ROOF PLAN

A-101.2

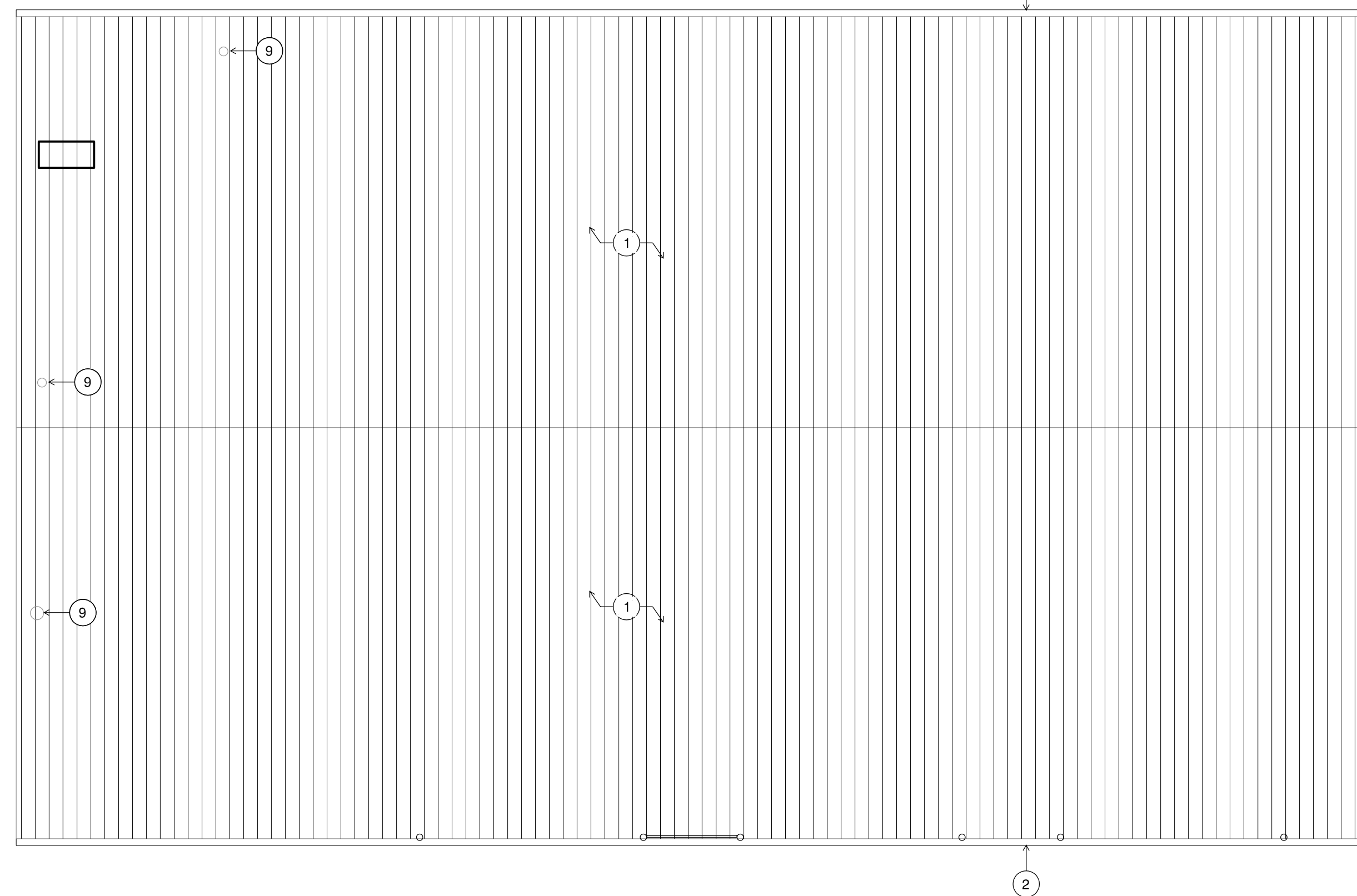
SHEET 25 OF 34

GENERAL NOTES:

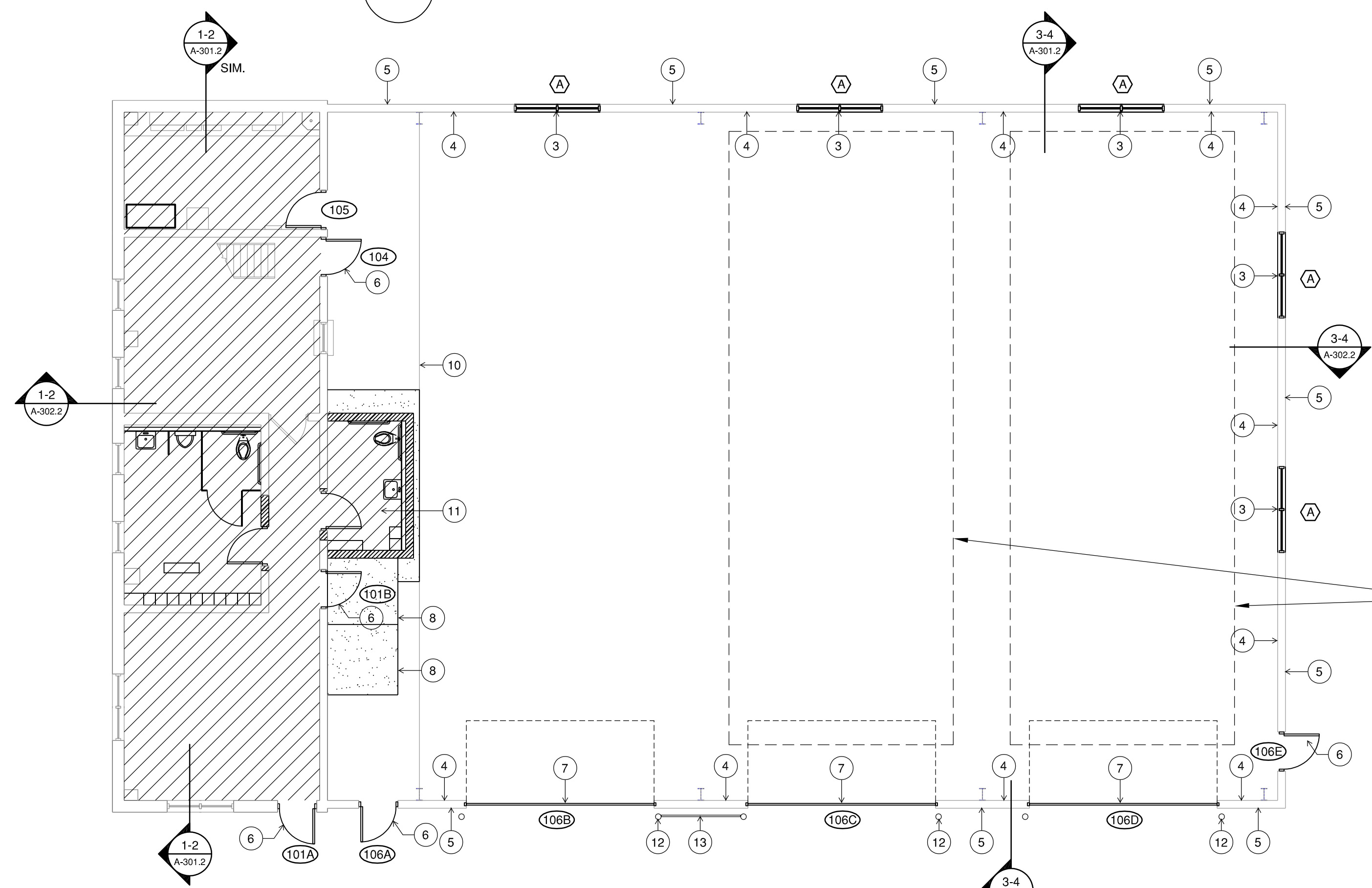
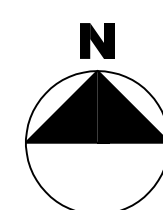
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KEYED NOTES:

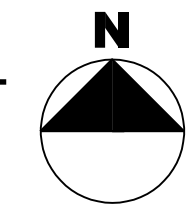
- 1 NEW METAL ROOF PANELS & INSULATION
- 2 NEW GUTTER & DOWNSPOUT
- 3 NEW WINDOW & FRAME
- 4 NEW SKRIM FACING, INSULATION & METAL LINER PANELS
- 5 NEW METAL WALL PANELS
- 6 NEW DOOR & FRAME
- 7 NEW OVERHEAD DOOR
- 8 CONCRETE RAMP & LANDING (NOT IN SCOPE)
- 9 EXISTING ROOF VENTS
- 10 EXISTING FLOOR JOINT
- 11 NEW RESTROOM (NOT IN SCOPE)
- 12 EXISTING PIPE BOLLARDS - SCRAPE & PAINT (TYP.)
- 13 REINSTALL SALVAGED GUARDRAIL SECTIONS - SCRAPE & PAINT



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



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

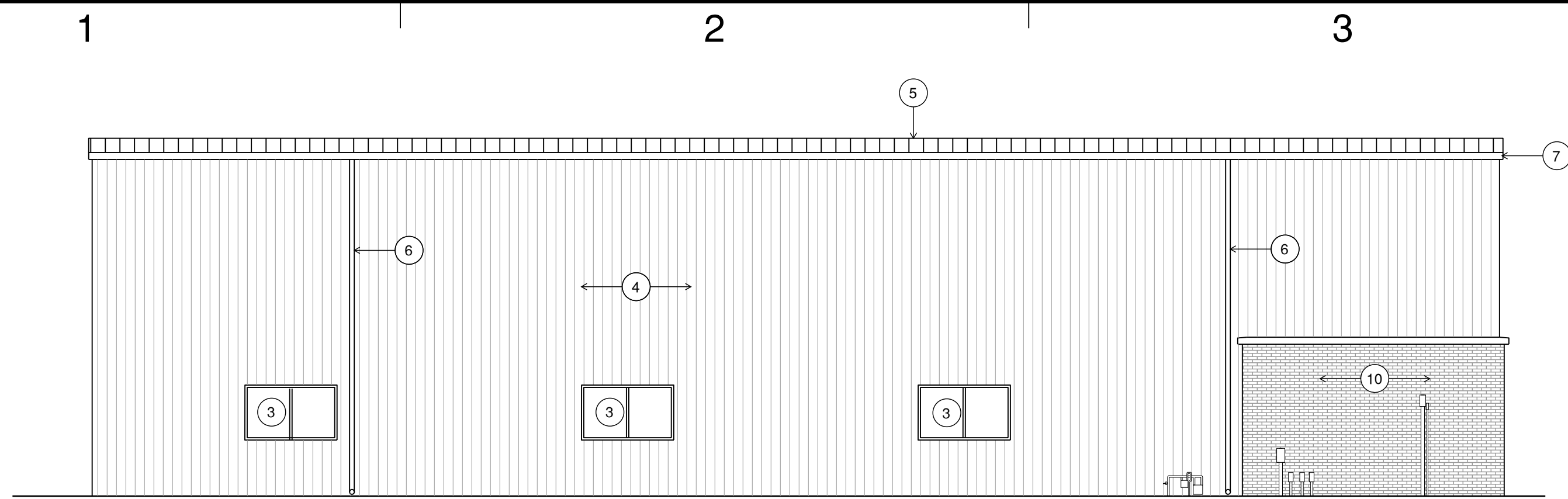


AREA NOT IN SCOPE

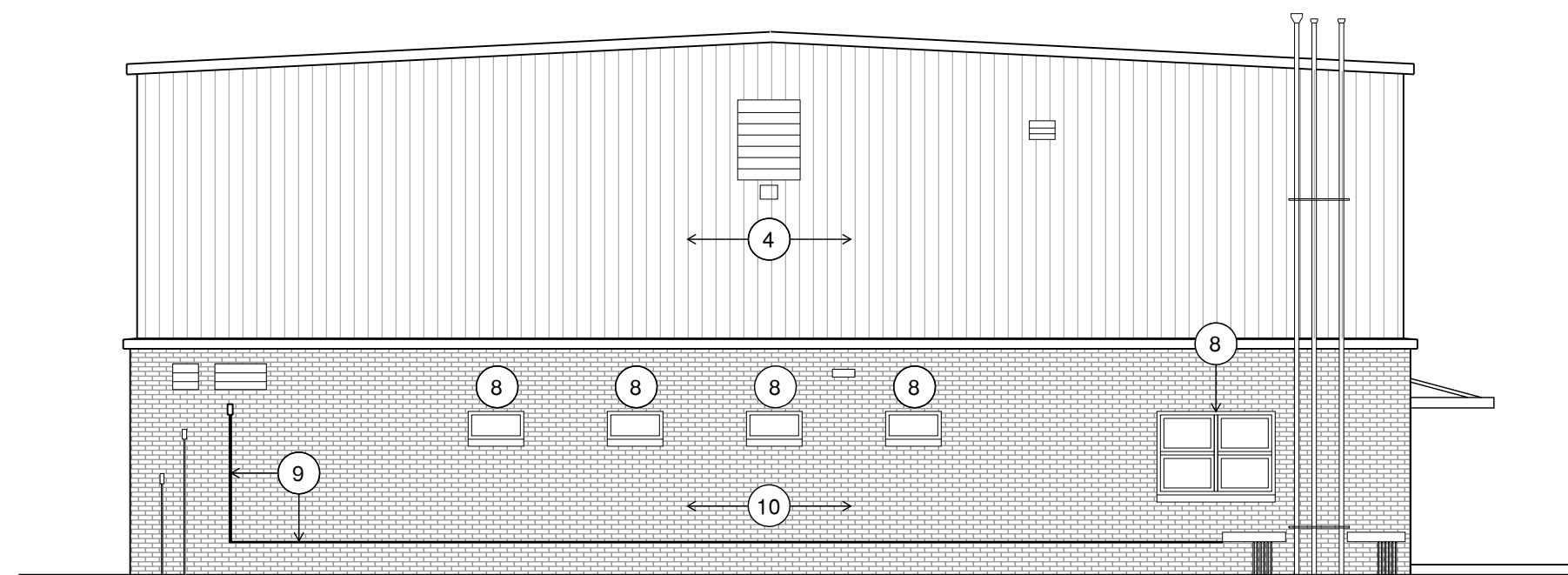
NOTE:
AT LEAST ONE OF THE TWO
EASTERN BAYS SHALL REMAIN
IN OPERATION DURING THE
DURATION OF THE PROJECT.

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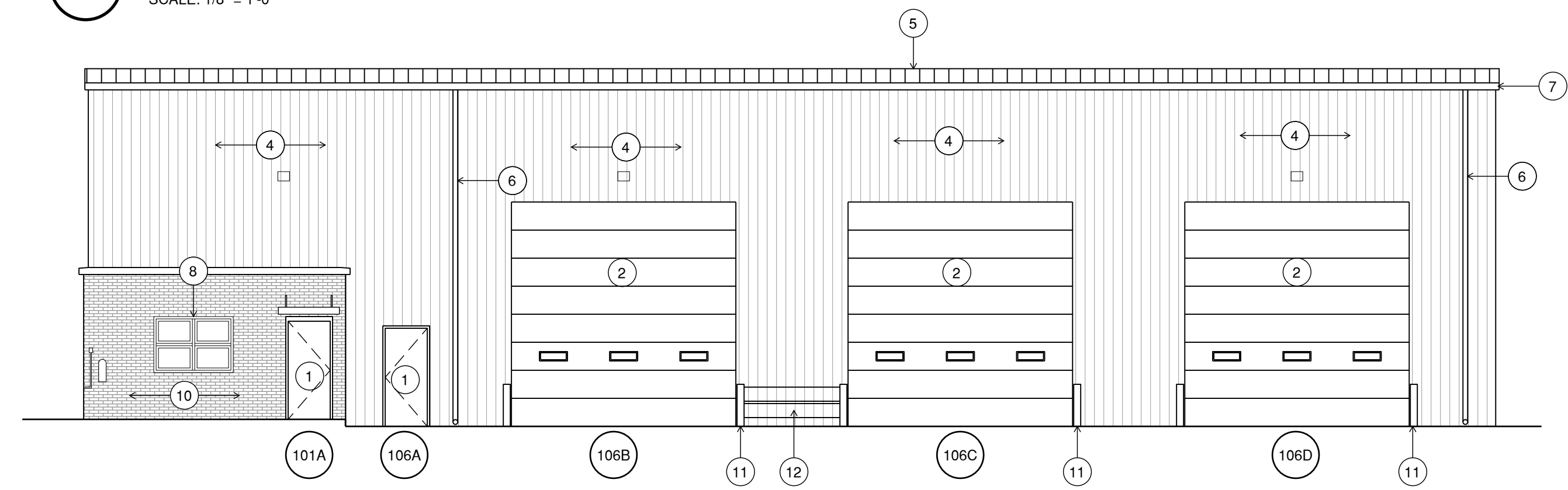
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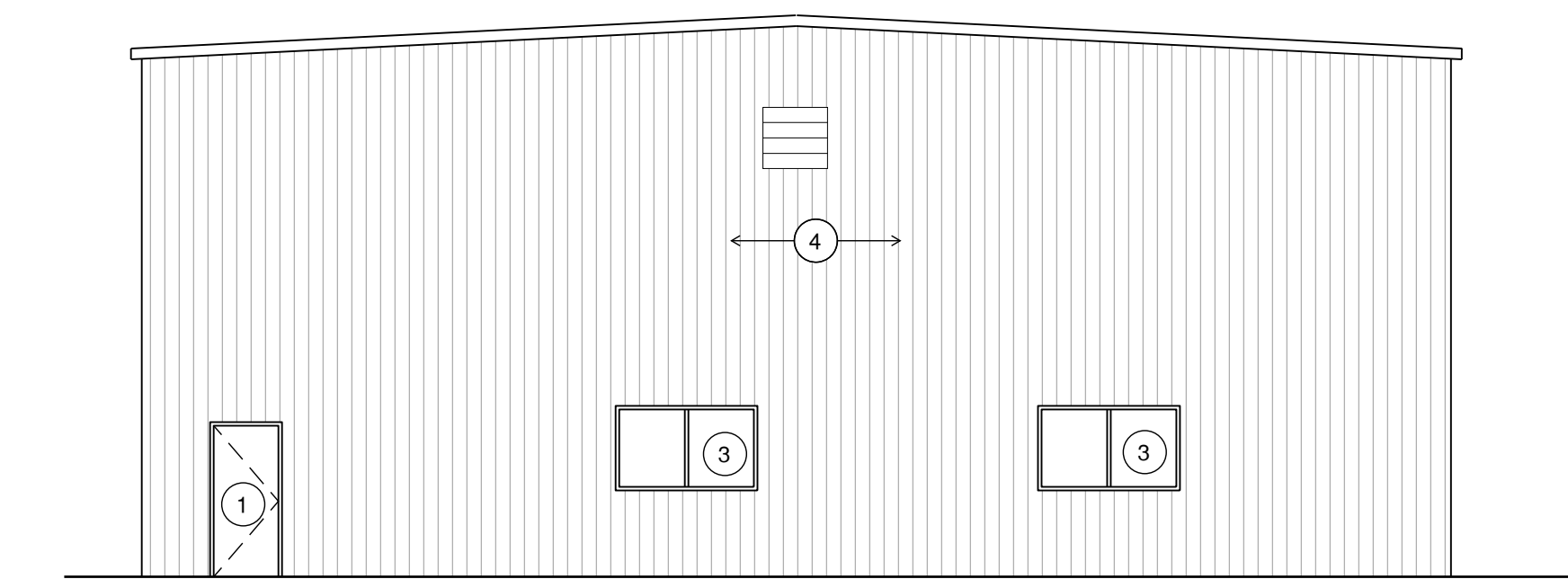
1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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



4 WEST ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1.

KEYED NOTES:

- 1 NEW DOOR & FRAME
- 2 NEW OVERHEAD DOOR
- 3 NEW WINDOW & FRAME
- 4 NEW METAL WALL PANELS
- 5 NEW METAL ROOF PANELS
- 6 NEW DOWNSPOUT
- 7 NEW GUTTER
- 8 EXISTING WINDOW
- 9 INSTALL NEW CONDUIT & WIRING
- 10 REPOINT ALL BRICK MASONRY
- 11 EXISTING PIPE BOLLARDS - SCRAPE & PAINT (TYP.)
- 12 REINSTALL SALVAGED GUARDRAIL SECTIONS - SCRAPE & PAINT



License No. 184-00613

CONSULTANTS

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: A-201.DWG

DESIGNED BY: GTF

DRAWN BY: EAW

CHECKED BY: GTF

APPROVED BY: -

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SHEET TITLE

**EXTERIOR
ELEVATIONS**

A-201.2

SHEET 26 OF 34

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:
SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: A-301.DWG

DESIGNED BY: GTF

DRAWN BY: EAW

CHECKED BY: GTF

APPROVED BY: -

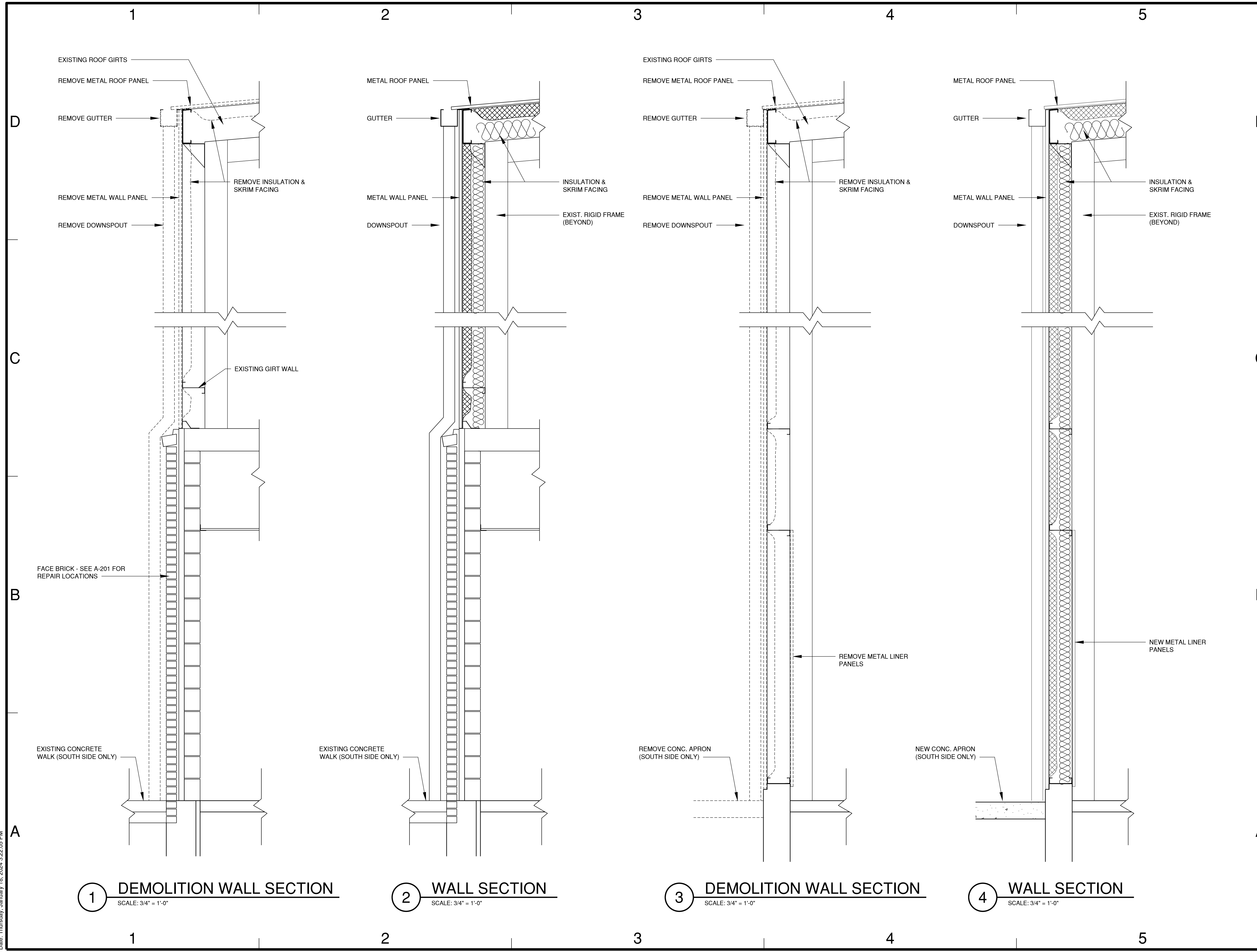
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SHEET TITLE

WALL SECTIONS

A-301.2

SHEET 27 OF 34



1 DEMOLITION WALL SECTION
SCALE: 3/4" = 1'-0"

2 WALL SECTION
SCALE: 3/4" = 1'-0"

3 DEMOLITION WALL SECTION
SCALE: 3/4" = 1'-0"

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

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D

C

B

A

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:
SHOP RENOVATION
OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO:	22001132-02
CAD DWG FILE:	A-301.DWG
DESIGNED BY:	GTF
DRAWN BY:	EAW
CHECKED BY:	GTF
APPROVED BY:	-
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SHEET TITLE
WALL SECTIONS

A-302.2
SHEET 28 OF 34

1

2

3

4

5

EXISTING ROOF GIRTS
REMOVE METAL ROOF PANEL
REMOVE METAL WALL PANEL
REMOVE INSULATION & SKRIM FACING

METAL ROOF PANEL
METAL WALL PANEL
INSULATION & SKRIM FACING

EXISTING ROOF GIRTS
REMOVE METAL ROOF PANEL
REMOVE METAL WALL PANEL
REMOVE INSULATION & SKRIM FACING

METAL ROOF PANEL
METAL WALL PANEL
INSULATION & SKRIM FACING

EXISTING GIRT WALL

FACE BRICK - SEE A-201 FOR
REPAIR LOCATIONS

REMOVE METAL LINER
PANELS

NEW METAL LINER
PANELS

1 DEMOLITION WALL SECTION
SCALE: 3/4" = 1'-0"

2 WALL SECTION
SCALE: 3/4" = 1'-0"

3 DEMOLITION WALL SECTION
SCALE: 3/4" = 1'-0"

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

1

2

3

4

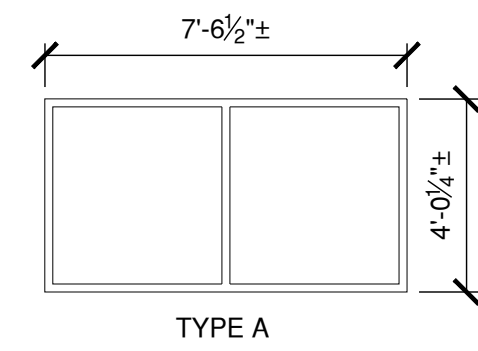
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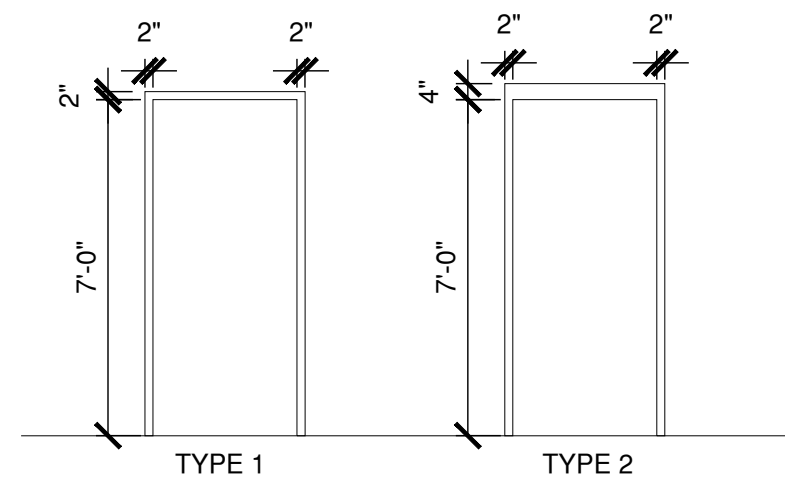
DOOR SCHEDULE

NO.	DOOR					FRAME			WALL CONST	LABEL	DETAILS	HARDWARE GROUP	LINTEL	REMARKS
	SIZE	MAT'L	FINISH	CORE	TYPE	TYPE	MAT'L	FINISH			HEAD/JAMB/SILL			
101A	3'-0" x 7'-0" x 1 3/4"	HM/GL	PT	INSUL	B	2	HM	ANOD	CMU	--	3/A-701	3	--	
101B	3'-0" x 7'-0" x 1 3/4"	HM/GL	PT	INSUL	C	2	HM	ANOD	CMU	--	2/A-701	4	--	
104	3'-0" x 7'-0" x 1 3/4"	HM/GL	PT	INSUL	C	2	HM	PNT	CMU	--	2/A-701	1	--	
105	3'-0" x 7'-0" x 1 3/4"	HM	PT	INSUL	A	2	HM	ANOD	CMU	--	2/A-701	4	--	
106A	3'-0" x 7'-0" x 1 3/4"	HM/GL	PT	INSUL	B	1	HM	PNT	GIRT	--	1/A-701	3	--	
106B	16'-0" x 16'-0" x 2"	ALUM	PREFIN	INSUL	D	--	--	--	GIRT	--	4/A-701	--	--	
106C	16'-0" x 16'-0" x 2"	ALUM	PREFIN	INSUL	D	--	--	--	GIRT	--	4/A-701	--	--	
106D	16'-0" x 16'-0" x 2"	ALUM	PREFIN	INSUL	D	--	--	--	GIRT	--	4/A-701	--	--	
106E	3'-0" x 7'-0" x 1 3/4"	HM	PT	INSUL	B	1	HM	PNT	GIRT	--	1/A-701	3	--	

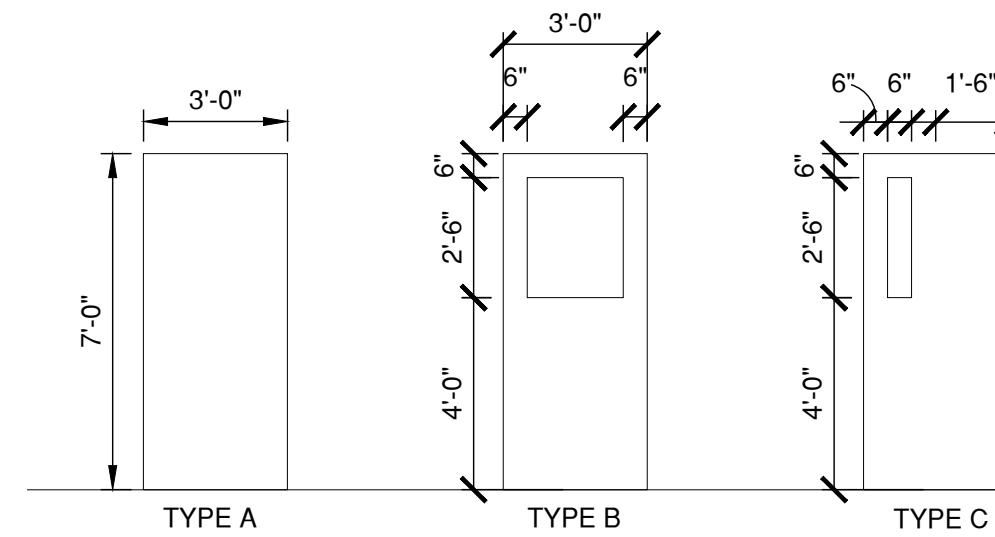
NOTE: WINDOW OPENING DIMENSIONS TO BE VERIFIED IN FIELD



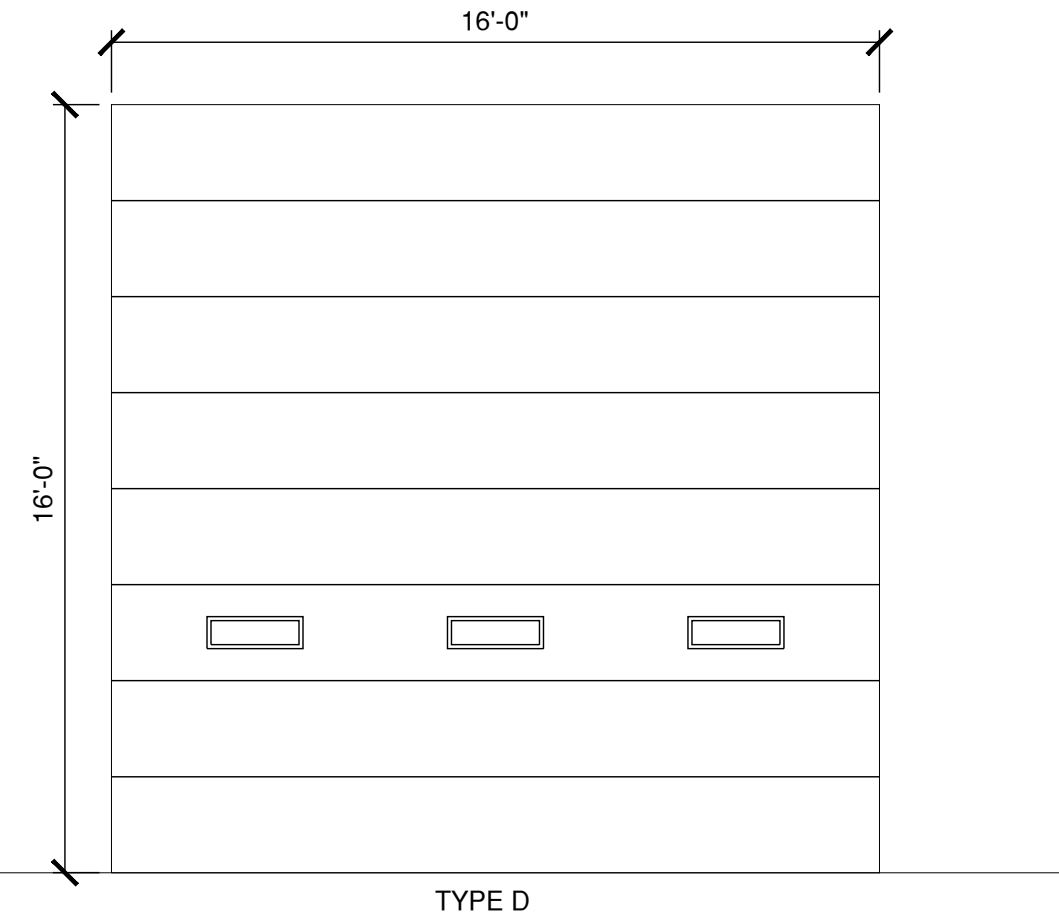
1 WINDOW TYPES
SCALE: 1/4" = 1'-0"



2 FRAME TYPES
SCALE: 1/4" = 1'-0"



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



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CONSULTANTS

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OWNER
SHOP RENOVATION

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: A-601.DWG

DESIGNED BY: GTF

DRAWN BY: EAW

CHECKED BY: GTF

APPROVED BY: -

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SHEET TITLE
**DOOR SCHEDULES &
DOOR & WINDOW
TYPES**

A-601.2

SHEET 29 OF 34

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

OWNER
SHOP RENOVATION

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO: 22001132-02

CAD DWG FILE: A-601.DWG

DESIGNED BY: GTF

DRAWN BY: EAW

CHECKED BY: GTF

APPROVED BY: -

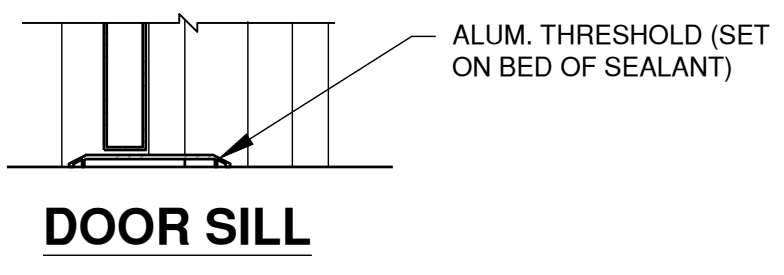
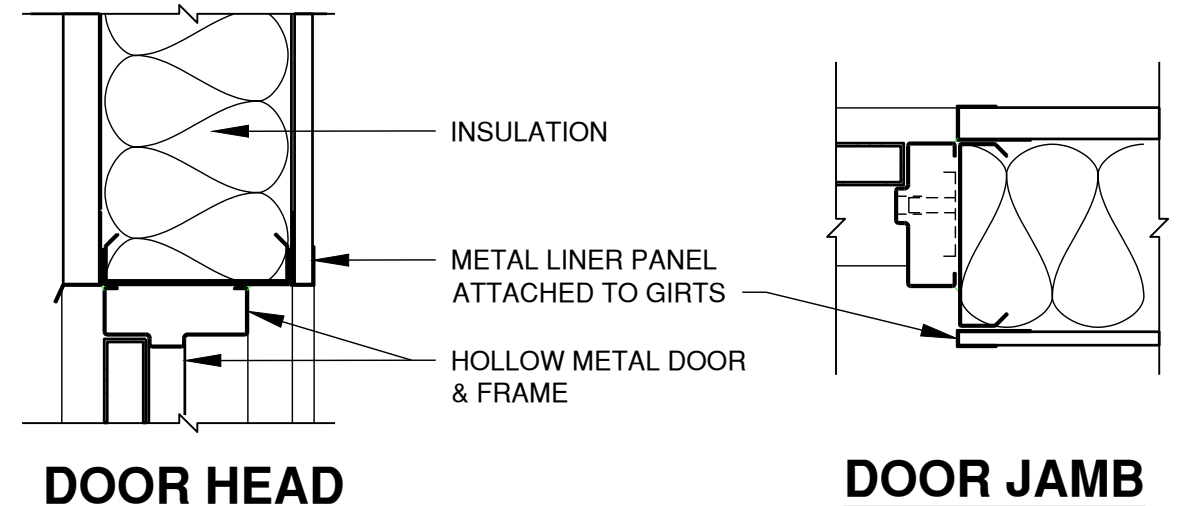
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SHEET TITLE

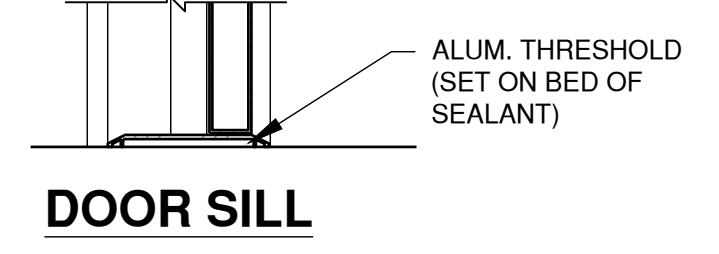
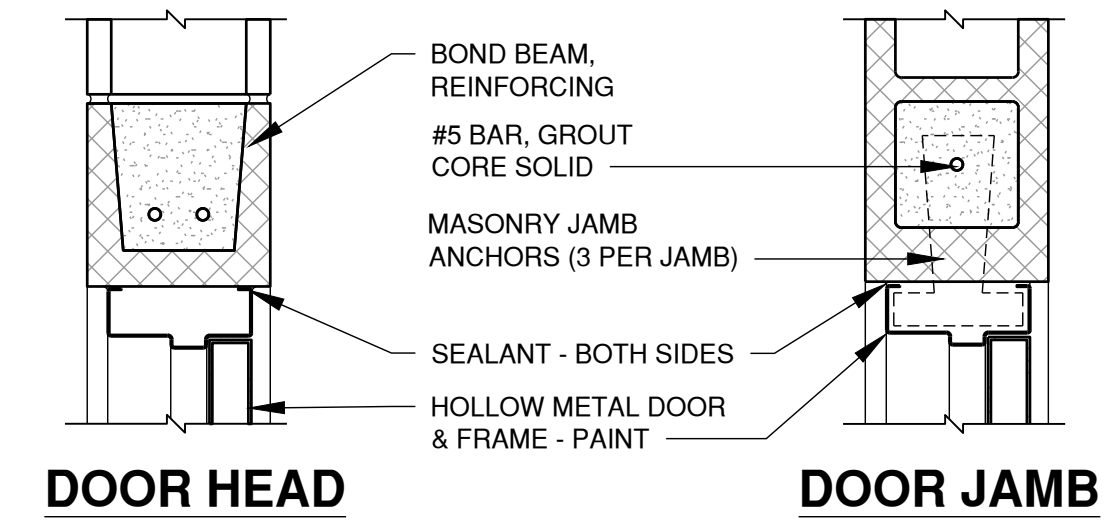
**DOOR & WINDOW
DETAILS**

A-701.2

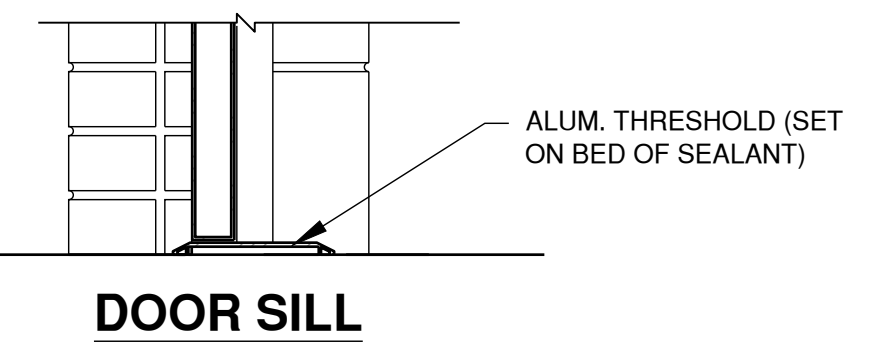
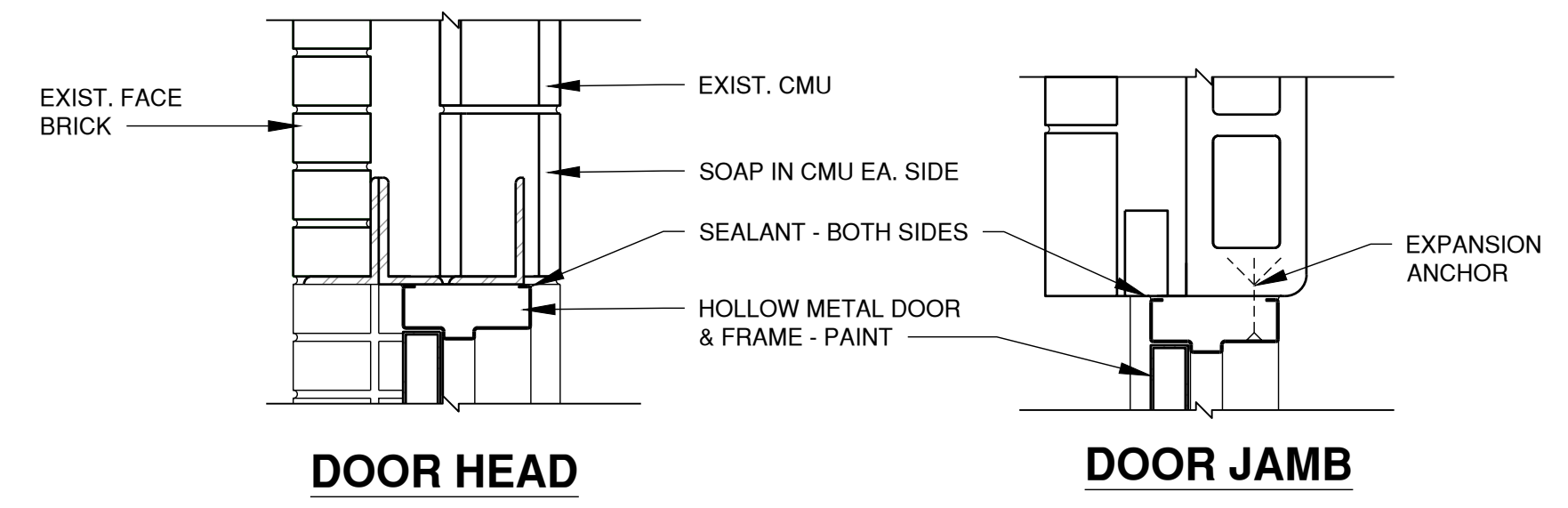
SHEET 30 OF 34



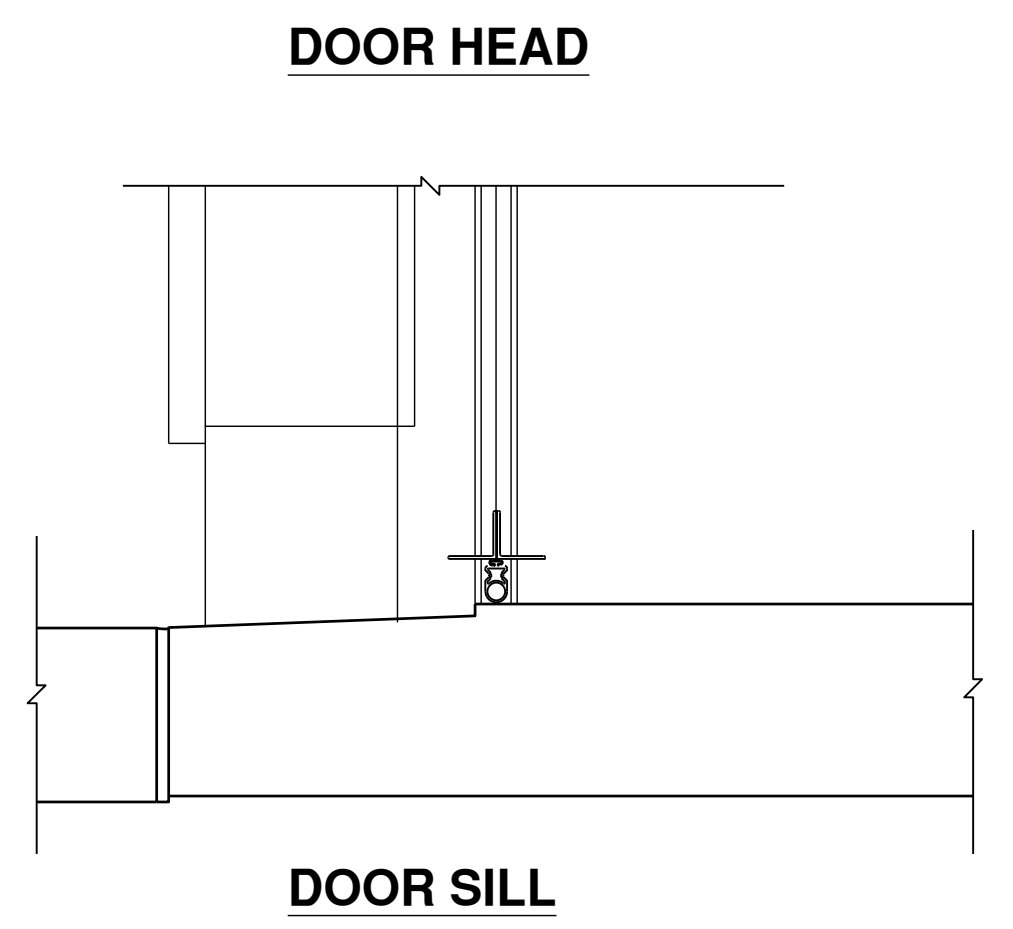
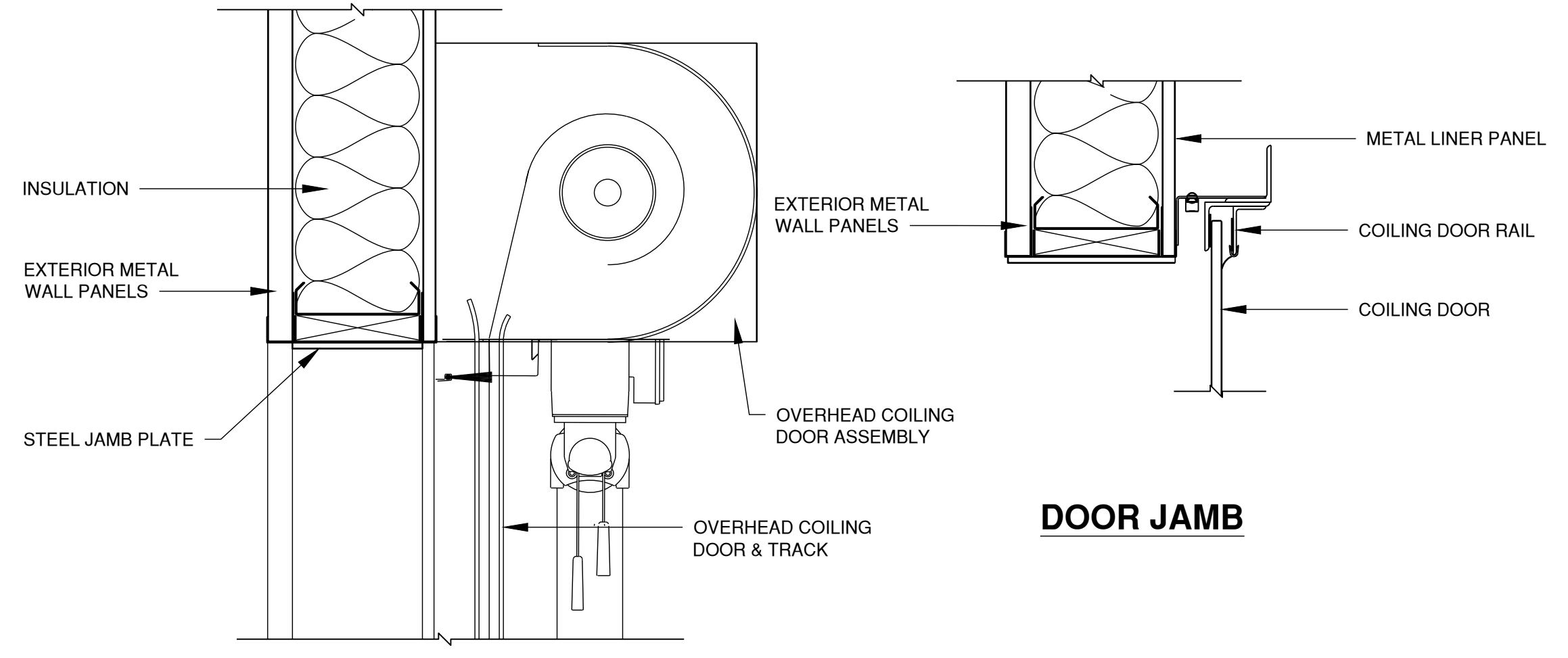
1 DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



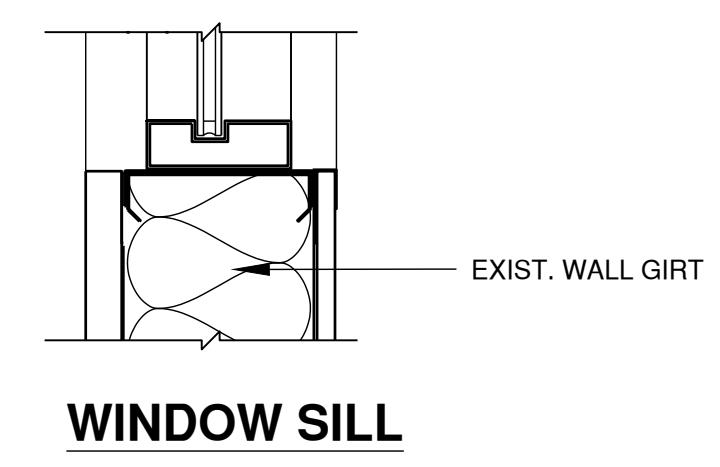
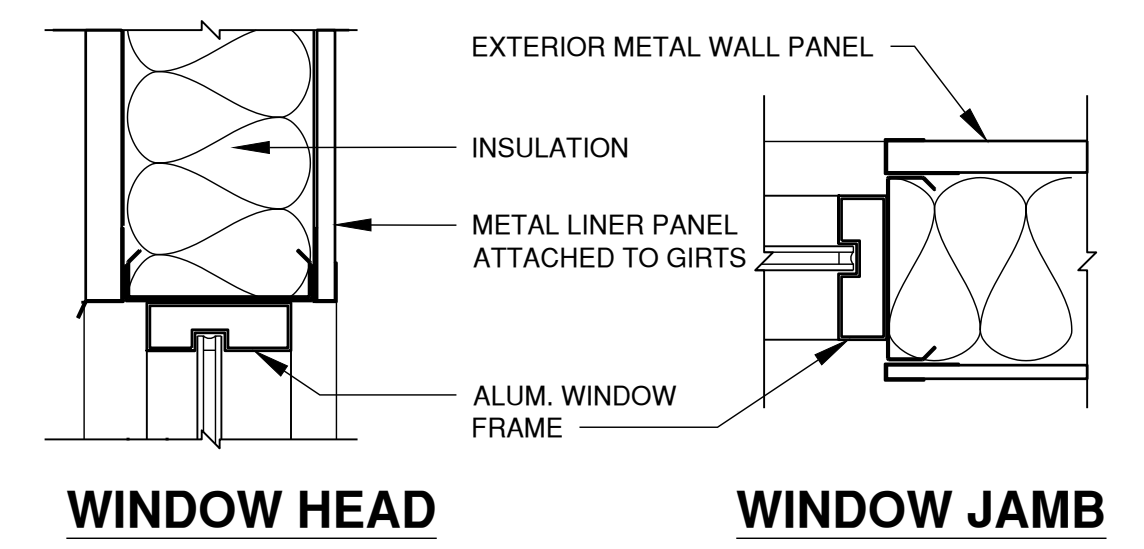
2 DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



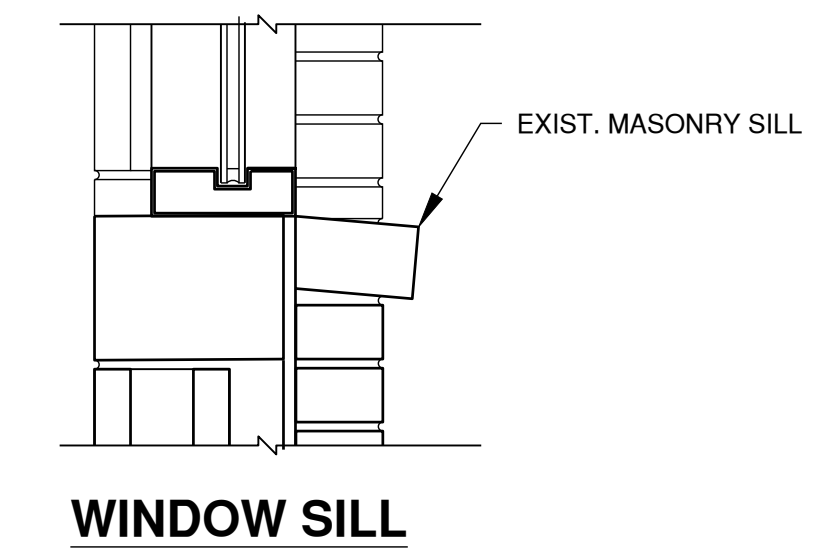
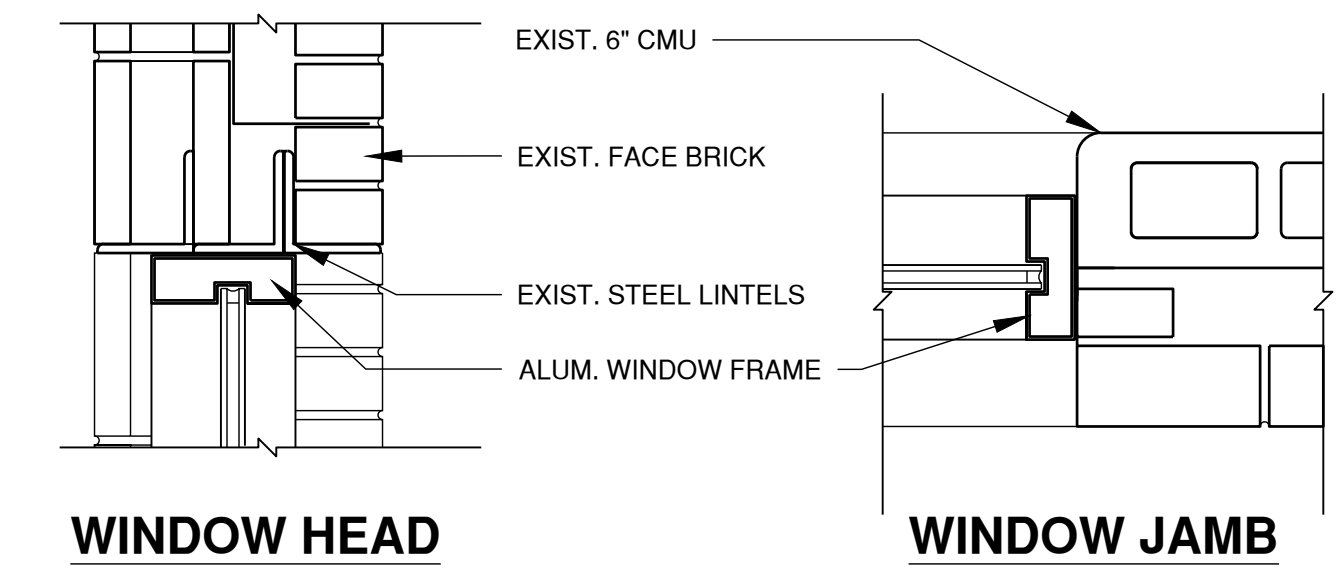
3 DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



4 DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



5 WINDOW DETAIL
SCALE: 1 1/2" = 1'-0"



6 WINDOW DETAIL
SCALE: 1 1/2" = 1'-0"

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Date: Thursday, January 18, 2024 3:22:16 PM

SCHEMATIC LEGEND

	NORMALLY OPEN (N.O.) RELAY CONTACT
	NORMALLY CLOSE (N.C.) RELAY CONTACT
	STARTER COIL, * = STARTER NUMBER
	OVERLOAD RELAY CONTACT
	CONTROL RELAY, * = CONTROL RELAY NUMBER
	TIME DELAY RELAY, * = DEVICE NUMBER, ** = TIME SETTING
	CLOSED SWITCH WITH TIME DELAY OPENING
	OPEN SWITCH WITH TIME DELAY CLOSING
	CLOSED SWITCH WITH TIME DELAY CLOSING
	OPEN SWITCH WITH TIME DELAY OPENING
	PILOT LIGHT, (P) = LETTER DENOTING COLOR, E.G. R=RED, G=GREEN, A=AMBER, W=WHITE
	HORN
	SOLENOID VALVE, * = SOLENOID VALVE NUMBER
	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)
	2-POSITION SELECTOR SWITCH
	N.C. (STOP) } PUSHBUTTONS
	N.C. } PRESSURE SWITCHES
	N.C. } LEVEL SWITCHES
	N.C. } THERMAL SWITCHES
	N.C. } FLOW SWITCHES
	N.C. } LIMIT SWITCHES
	N.C. } PROXIMITY SWITCHES
	CONNECTOR, DISCONNECT DEVICE
	TIME CLOCK
	PHOTOCELL
	TERMINAL BLOCK, * = TERMINAL NUMBER
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER
	RUN TIME METER, HOUR METER
	CIRCUIT BREAKER
	FUSE
	CONTROL POWER TRANSFORMER
	INTERNAL PANEL WIRING OR DEVICES
	FIELD WIRING OR DEVICES

1

ONE-LINE LEGEND

	TRANSFORMER
	ELECTRIC UTILITY METER AND BASE
	GENERATOR
	AUTOMATIC TRANSFER SWITCH (N=NORMAL, E=EMERGENCY, L=LOAD)
	POWER MONITOR
	SURGE PROTECTION DEVICE
	CIRCUIT BREAKER (MAGNETIC ONLY)
	CIRCUIT BREAKER (THERMAL MAGNETIC)
	KEY INTERLOCK
	GROUND (CHASSIS, BUS OR AT EARTH POTENTIAL)
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	MOTOR SINGLE PHASE
	MOTOR THREE PHASE
	REMOTE CONTROL STATION
	HEAVY DUTY ENCLOSED SAFETY SWITCH FUSED DISCONNECT
	HEAVY DUTY ENCLOSED SAFETY SWITCH NON FUSED DISCONNECT
	COMBINATION CIRCUIT BREAKER WITH OVERLOAD PROTECTION #=SIZE
	PANELBOARD WITH MAIN CIRCUIT BREAKER
	PANELBOARD WITH MAIN LUGS
	VARIABLE FREQUENCY DRIVE

LIGHTING SYMBOLS

	LIGHT FIXTURE (2x4) FX = FIXTURE NUMBER (TYP.) CKT = CIRCUIT NUMBER (TYP.)
	EMERGENCY LIGHT FIXTURE INCLUDE AN UNSWITCHED HOT LEG
	LIGHT FIXTURE (1x4)
	LIGHT FIXTURE (2x2)
	RECESSED CAN LIGHT
	STRIP FIXTURE
	WALL MOUNTED EMERGENCY LIGHT
	EXIT SIGN WITH DIRECTIONAL ARROW SHADED AREA DENOTES VIEWED FACE
	EXTERIOR BUILDING WALL PACK
	CEILING MOUNTED 360° DUAL TECH OCCUPANCY SENSOR
	PHOTOCELL WITH LIGHT LEVEL SELECTION

2

ELECTRICAL DEVICES

	DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE
	SINGLE RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	AC - ABOVE COUNTER
	NONE - 20 AMP 125VAC
	GFCI - GROUND FAULT CIRCUIT INTERRUPTER TYPE
	WP - WEATHER PROOF TYPE
	ES - ENERGY SAVING
	XX - RECEPTACLE CIRCUIT NUMBER
	XXX - "XX" HEIGHT ABOVE FINISHED FLOOR
	VOICE ONLY OUTLET
	VOICE ONLY OUTLET WALL MOUNTED
	DATA/VOICE OUTLET
	DATA OUTLET
	WIRELESS ACCESS POINT
	CEILING MOUNTED DEVICE
	FLOOR MOUNTED DEVICE (DUPLEX RECEPTACLE SHOW)
	FLOOR BOX ONLY
	FLOOR BOX (POWER AND DATA)
	TELEVISION OUTLET
	TOGGLE SWITCH, 20 AMP, 120/277 VAC
	TOGGLE SWITCH, 3-WAY
	TOGGLE SWITCH, 4-WAY
	LOW VOLTAGE LIGHTING CONTROL SWITCH
	OS - OCCUPANCY SENSOR (WALL MOUNTED)
	D - DIMMABLE
	1 - ONE CHANNEL "ON/OFF" CONTROL
	2 - TWO CHANNEL "ON/OFF" CONTROL
	MANUAL MOTOR STARTER/DISCONNECT WITH OVERLOADS AND LOCKOUT PROVISIONS. (NUMBER OF POLES AS REQUIRED PER MOTOR) XP - EXPLOSION PROOF

3

SECURITY & ACCESS CONTROL

	FIXED POSITION CCTV CAMERA EX = EXTERIOR
	PAN-TILT-ZOOM CCTV CAMERA EX = EXTERIOR
	DOOR BUZZER
	DOOR RELEASE BUTTON
	ELECTRIC DOOR STRIKE
	SECURITY CARD READER
	COMBINATION CARD READER WITH KEY PAD
	SECURITY DOOR REQUEST TO EXIST
	SECURITY EXIT PUSHBUTTON
	SECURITY DOOR CONTACTS
	ELECTRIC POWER TRANSFER
	PUSH PLATE
	DOOR SWITCH - DOOR POSITION MONITORING POINT
	JUNCTION BOX

3

GENERAL PLAN SYMBOLS

	SWITCHGEAR, SWITCHBOARD OR MOTOR CONTROL CENTER, DASHED LINES INDICATE FUTURE
	BRANCH PANELBOARD AND CABINET, SURFACE MOUNTED
	BRANCH PANELBOARD AND CABINET, FLUSH MOUNTED
	FUSED DISCONNECT SWITCH HEAVY DUTY
	NON-FUSED DISCONNECT SWITCH HEAVY DUTY
	COMBINATION MAGNETIC MOTOR STARTER
	CONDUCTORS IN CONDUIT, #12 AWG AND 3/4" CONDUIT MINIMUM, ARROW INDICATES HOMERUN
	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
	CONDUIT CAPPED
	EXPLOSION PROOF CONDUIT SEAL
	JUNCTION BOX
	GROUND ROD
	CABLE TRAY

FIRE ALARM SYSTEM

	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	KNOX BOX (PER CITY'S REQUIREMENTS)
	DETECTOR, SMOKE SENSOR
	DETECTOR, HEAT AND RATE OF RISE
	FIRE ALARM STATION MANUAL PULL
	RESCUE ASSISTANCE STATION (AREA REFUGE)
	DUCT DETECTOR, SMOKE
	SPRINKLER TAMPER SWITCH DETECTION
	SPRINKLER FLOW SWITCH DETECTION
	COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICE (WP INDICATED WEATHER PROOF)
	VISUAL ONLY NOTIFICATION DEVICE
	2/C #16 TWISTED PAIR CABLE IN CONDUIT (SLC ADDRESSABLE DATA CIRCUIT)
	2/C #14 TWISTED PAIR CABLE (FPLP) FIRE ALARM CABLE (SIGNAL/CONTROL CIRCUIT) IN CONDUIT

SITE PLAN SYMBOLS

	PAD MOUNTED TRANSFORMER
	POWER POLE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED UNDERGROUND ELECTRIC
	ELECTRIC MANHOLE
	ELECTRIC HANDHOLE
	LIGHT FOUNDATION, POLE AND FIXTURE S"X" - SITE FIXTURE NUMBER

4

GENERAL NOTES

- THIS IS A STANDARD ELECTRICAL SYMBOL SHEET, SOME OF THE SYMBOLS NOTED HERE MAY NOT BE REQUIRED FOR THE PROJECT, AND THEREFORE MAY NOT BE USED ON THE PLANS.
- THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS AND REFERENCE DRAWINGS, WHICH WOULD AFFECT THEIR WORK UNDER THIS CONTRACT. SEE SPECIFICATION MANUAL FOR DETAILED INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (CURRENT LOCAL VERSION IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTINGS (OR THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- ALL NEW ELECTRICAL EQUIPMENT, CABLES, CONDUIT, HANDHOLES, JUNCTION BOXES AND APPURTENANCES SHOWN ON PLANS IS DIAGRAMMATIC. PROPOSED ROUTING OF CONDUITS, AS SHOWN ON THE PLANS, IS FOR INFORMATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL CONDUIT ROUTING AS REQUIRED BY THE EQUIPMENT TERMINATION LOCATIONS.
- CONTRACTOR SHALL MAINTAIN ALL FIRE RATED WALLS. SEE ARCHITECTURAL SHEETS FOR FIRE RATINGS. FIRE SEAL SHALL BE PER SPECIFICATION SECTION 26 05 33, 2.02, A.
- CONDUIT IN SHOP AREA WHEN REQUIRED SHALL BE GALVANIZED RIGID STEEL OR ALUMINUM TYPE.
- THE ELECTRICAL MATERIAL SHALL BE NEW AND OF THE TYPE AND KINDS APPROVED BY THE FOLLOWING ORGANIZATIONS:
 - A. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - B. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
 - C. ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
 - D. UNDERWRITERS LABORATORIES
 - E. AMERICAN STANDARD INSTITUTE
 - F. INSULATED POWER CABLE ENGINEERS ASSOCIATION

5



License No. 184-000613

CONSULTANTS

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

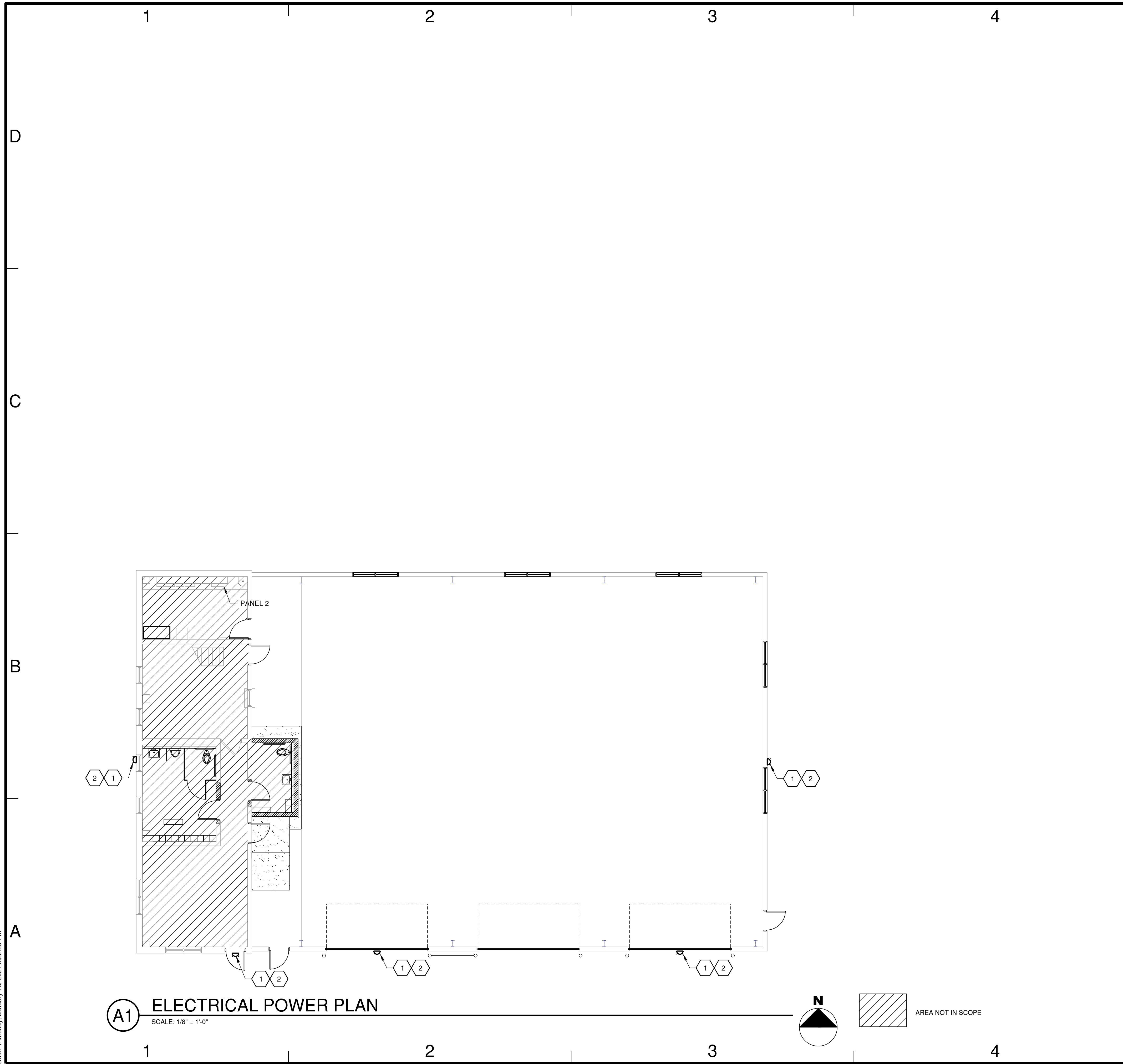
PROJECT NO:	22001132-02
CAD DWG FILE:	E-001
DESIGNED BY:	JRV
DRAWN BY:	JRV
CHECKED BY:	LDW
APPROVED BY:	----
COPYRIGHT:	CRAWFORD, MURPHY & TILLY, INC. 2022

SHEET TITLE
**ELECTRICAL
STANDARD LEGEND
AND GENERAL NOTES**

E-001.2

SHEET 31 OF 34

Path: L:\Tazewell\Co\22001132-02_ShopBuildingOfficeRFRRenovation\Draw\Structures\Sheets\Garage_Building\Env_PhaseE-101.dwg
Date: Thursday, January 18, 2024 3:22:20 PM



(A1) ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

5

GENERAL NOTES

- CONTRACTOR MAY REUSE EXISTING CONDUIT AND WIRE IF AVAILABLE AND SIZED APPROPRIATELY.
- THERE ARE SEVERAL CONDUITS ALONG THE WALLS INSIDE OF THE SHOP AREA. THE CONTRACTOR SHALL DETACH OR LOOSEN AS REQUIRED FOR NEW WALL INSTALLATION AND RESTORE.

KEYED NOTES

- EXISTING EXTERIOR WALL FIXTURE SHALL BE REPLACED WITH THE FOLLOWING: 10 LEDS (ONE ENGINE), 350mA DRIVE CURRENT, 1500 LUMENS, 4000K COLOR TEMPERATURE, TYPE IV MEDIUM DISTRIBUTION, 120-277V, PHOTOCCELL, DARK BRONZE FINISH. MODEL NUMBER LITHONIA DSXW1-10C-350-40K-T4M-MVOLT-DDBXD, SIGNIFY LPW16-20-4-UNV-BZ, OR LEDALUX LXT2-WPFX-25-U-4K-BZ.
- THE CONTRACTOR MAY REUSE EXISTING CIRCUIT. EXTEND IF REQUIRED.



License No. 184-00613

CONSULTANTS

BID DOCUMENTS
OCTOBER, 2023

TAZEWELL COUNTY
HIGHWAY DEPARTMENT
BUILDING REPAIRS:

SHOP RENOVATION

OWNER

CRAWFORD, MURPHY AND
TILLY, INC.
SPRINGFIELD, IL

MARK	DATE	DESCRIPTION

PROJECT NO:	22001132-02
CAD DWG FILE:	E-101.DWG
DESIGNED BY:	AJB
DRAWN BY:	JJ
CHECKED BY:	GTC
APPROVED BY:	APR
COPYRIGHT:	CRAWFORD, MURPHY & TILLY, INC. 2022

SHEET TITLE
**ELECTRICAL
LIGHTING PLAN**

E-101.2

SHEET 32 OF 34

