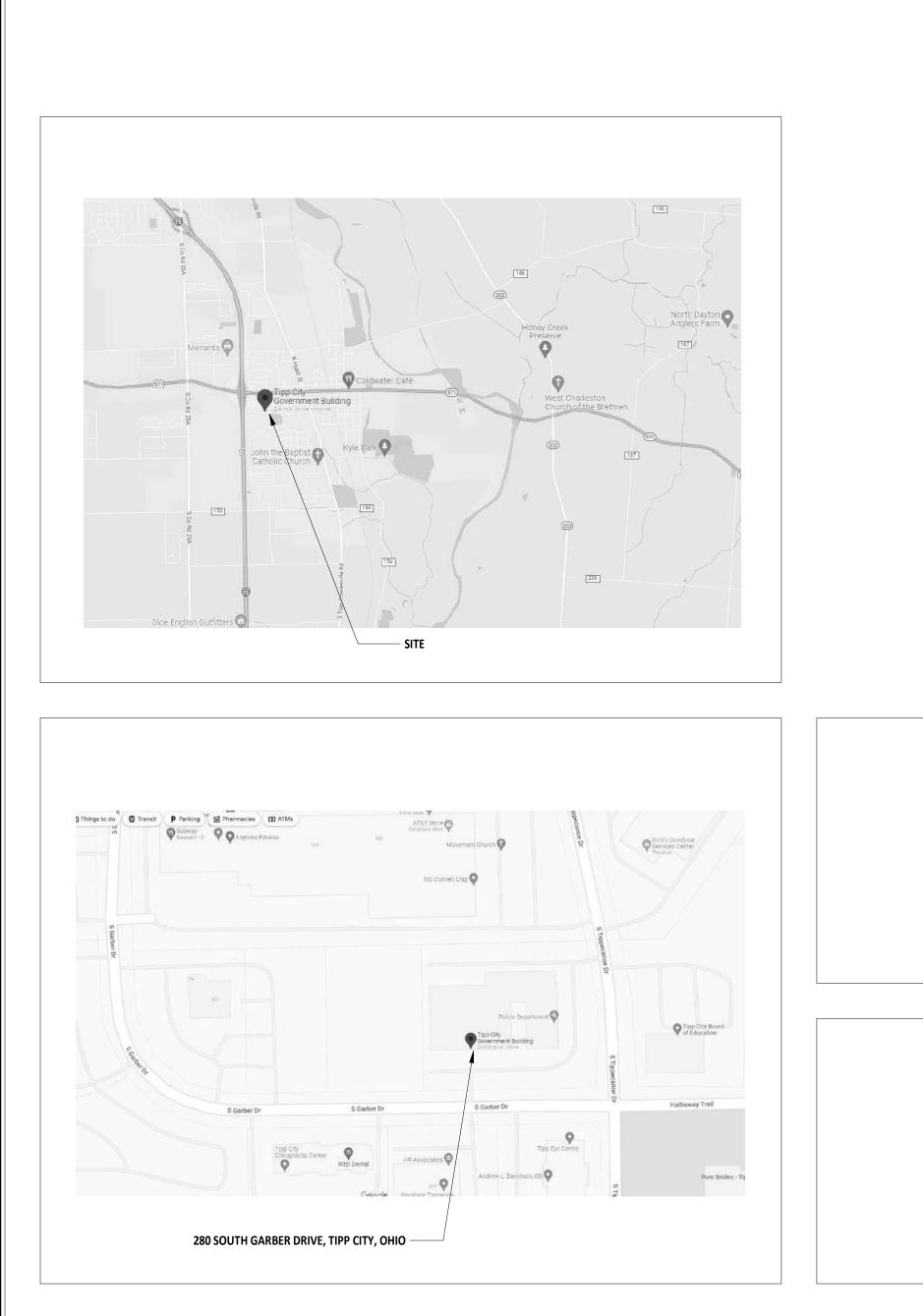
TIPP CITY GOVERNMENT BUILDING INFILL

280 SOUTH GARBER DRIVE, TIPP CITY, OHIO 45371

BID DOCUMENTS



VTED ON: 2/6/2023 11:21:44 AM

02/02/2023





ARCHITECTS

MECHANICAL, ELECTRICAL & PLUMBING ENGINEERS

LANDSCAPE ARCHITECTS

TECHNOLOGY DESIGNERS

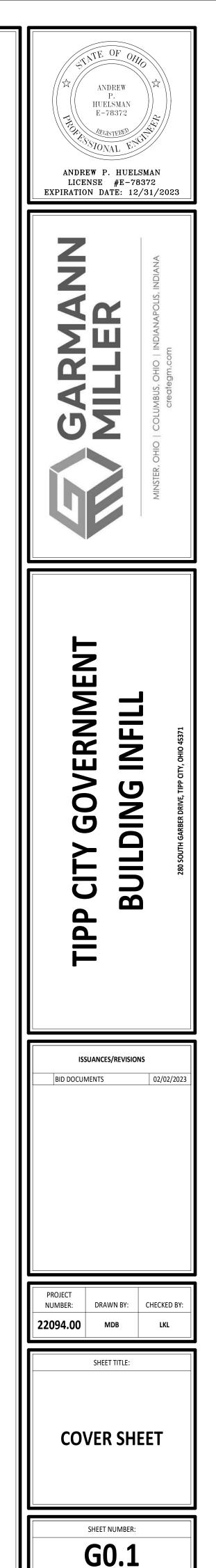
INTERIOR DESIGNERS

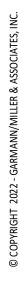


38 SOUTH LINCOLN DRIVE PO BOX 71 MINSTER, OHIO 45865 419.628.4240

SHEET INDEX				
GENERAL / CIVIL / LANDSCAPE / ARCHITECTURAL / FOOD SERVICE / STRUCTURAL				
SHEET NUMBER	SHEET NAME			
G0.1	COVER SHEET			
G1.0	CODE PLAN			
SS1.1	SITE SURVEY			
C1.1	GENERAL NOTES			
C1.2	GENERAL NOTES AND DETAILS SHEET			
C1.3	GENERAL DETAILS			
C2.1	UTILITY PLAN			
C3.1	GRADING PLAN			
L1.1	SITE DEMOLITION AND LAYOUT/MATERIALS PLAN			
L2.1				
A0.1	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS			
A0.1 A0.2				
AU.2 AD1.1	FIRST FLOOR DEMOLITION PLAN			
AD5.1 AD7.1	ROOF DEMOLITION PLAN / DETAILS			
	FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN			
A1.1	FIRST FLOOR PLAN			
A1.2	SECOND FLOOR PLAN			
A2.1	EXTERIOR ELEVATION / BUILDING SECTIONS			
A4.1	WALL SECTIONS			
A4.2	SECTION DETAILS			
A5.1	ROOF PLAN			
A6.1	DOOR SCHEDULE AND DETAILS			
A6.2	STOREFRONT ELEVATIONS AND DETAILS			
A7.1	FIRST FLOOR REFLECTED CEILING PLAN			
A8.1	FIRST AND SECOND FLOOR EQUIPMENT PLAN			
A9.1	FIRST FLOOR FINISHES PLAN			
S0.1	STRUCTURAL NOTES			
S1.1	FOUNDATION PLAN & SECTIONS			
S1.2	TYPICAL FOUNDATION DETAILS			
S2.1	MEZZANINE FRAMING PLAN & SECTIONS			
\$3.1	ROOF FRAMING PLAN & SECTIONS			
S4.1	MASONRY DETAILS			
P1.1	GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SHEET INDEX			
P2.1	PLUMBING DEMOLITION PLAN AND FIRST FLOOR PLUMBING PLAN			
P2.2	PLUMBING MEZZANINE PLAN AND SCHEDULES			
FP1.1	FIRE PROTECTION PLAN			
M1.1	GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SHEET INDEX			
M2.1	FIRST FLOOR MECHANICAL PLAN			
M2.2	MECHANICAL MEZZANINE PLAN AND SCHEDULES			
E1.1	GENERAL NOTES, ABBREVIATIONS, LEGENDS, DETAILS AND SHEET INDEX			
ED1.1	ELECTRICAL DEMOLITION PLAN			
E2.1	FIRST FLOOR SYSTEMS PLAN			
E3.1	FIRST FLOOR LIGHTING PLAN			
E4.1	FIRST FLOOR POWER PLAN			
E5.1	ROOF ELECTRICAL PLAN			
E5.2	MEZZANINE ELECTRICAL PLANS			
E6.1	LUMINAIRE SCHEDULE			
E7.1	ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHEDULES			

555 METRO PLACE NORTH SUITE 320 DUBLIN, OHIO 43017 614.502.4240 2 WEST MAIN STREET CARMEL, INDIANA 46032 317.343.9343







OCCUPANCY TABULATION PER 2017 OBC TABLE 1004.1.2 - L1					
ROOM NUMBER	NAME	AREA (GROSS)	AREA (NET)	OCCUPANT LOAD FACTOR	OCCUPANT(S)
A101	CORRIDOR	456 SF	456 SF	0	
A102	STORAGE	860 SF	860 SF	300	3
A103	RESTROOM	54 SF	54 SF	0	
A104	SERVER ROOM	506 SF	506 SF	300	2
A105	IT OFFICE	432 SF	432 SF	100	5
A106	CORRIDOR	79 SF	79 SF	0	
A107	OFFICE	161 SF	161 SF	100	2
A108	OFFICE	166 SF	166 SF	100	2
A201	STORAGE	884 SF	884 SF	300	3
					17

CODE PLAN LEGEND

X - OCCUPANT LOAD THROUGH EXIT

 🛥 CLEAR EXIT WIDTH XXX ALLOWABLE NUMBER OF OCCUPANTS THROUGH EXIT

OCCUPANCY GROUPS USED

- A ASSEMBLY
- B BUSINESS I INSTITUTIONAL

N

- S STORAGE
- 1 HOUR FIRE BARRIER (1FB) 2 HOUR FIRE BARRIER (2FB)



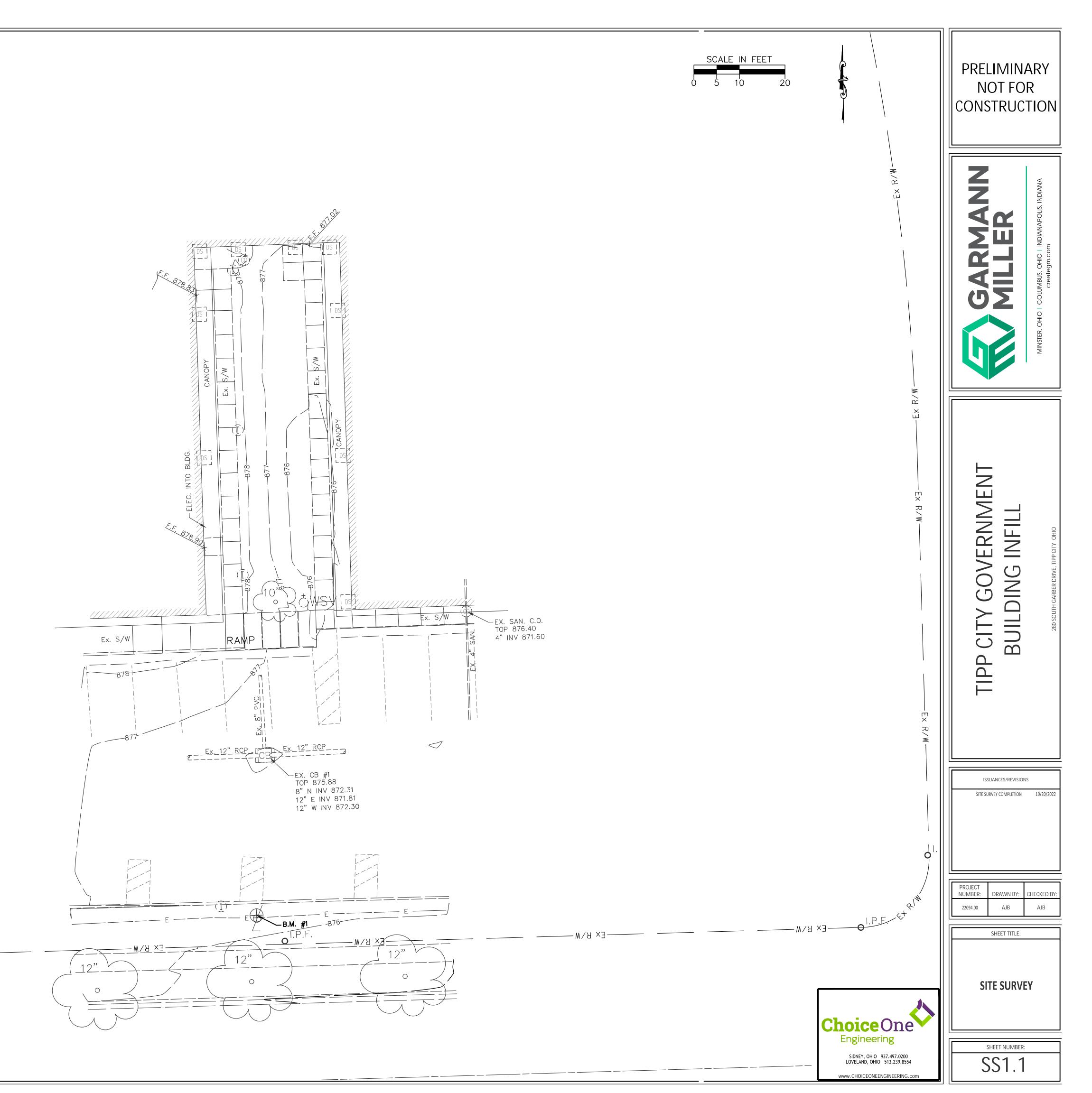
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	1.	51	C

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH CHOICE ONE ENGINEERING DID LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. CHOICE ONE ENGINEERING HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

THIS SURVEY WAS COMPLETED WITHOUT A FULL TITLE SEARCH. EASEMENTS SHOWN WERE FOUND IN OUR RESEARCH OF THE PROPERTY, BUT CHOICE ONE ENGINEERING MAKES NO GUARANTEE ALL EASEMENTS ON THE PROPERTY ARE SHOWN.

005			
	EXISTING CONTOURS	0	
o ^{LP.E.}	IRON PIN FOUND	©	EXISTING ROUND CATCH BASIN
~ ^{₹.}	TRAVERSE POINT	[CB]	EXISTING CATCH BASIN
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CONIFEROUS SHRUBS SIZE ON DRAWING	DS	EXISTING DOWN SPOUT
E	DECIDUOUS TREE SIZE ON DRAWING	© 	EXISTING STORM MANHOLE
	CONIFEROUS TREE SIZE ON DRAWING	G	EXISTING STORM EXISTING GAS LINE
∑ ∑	EXISTING FLAG POLE	⊣G ©	EXISTING GAS MARKER
$\phi$	EXISTING UTILITY POLE	GR	EXISTING GAS VALVE EXISTING GAS REGULATOR
ø	EXISTING LIGHT POLE	Ū.	EXISTING GAS METER
d d	EXISTING TELEPHONE POLE	6	EXISTING FILL PORT
/ (	EXISTING GUY ANCHOR	-T	EXISTING TELEPHONE MARKER
— E —	EXISTING UNDERGROUND ELECTRIC LINE		
	EXISTING OVER HEAD UTILITY		EXISTING TELEPHONE RISER
			EXISTING UNDERGROUND TELEPHONE
	EXISTING ELECTRICAL OUTLET	<u>с</u> +С	EXISTING CABLE RISER EXISTING CABLE MARKER
	EXISTING PULL BOX	ic L	EXISTING 1-POST SIGN
	ELECTRICAL RISER	Ŀ	EXISTING 2-POST SIGN
(E)	EXISTING ELECTRICAL MANHOLE	Г 0	EXISTING POST
Ē	EXISTING ELECTRICAL METER	Ġ.	EXISTING HANDICAP SYMBOL
	EXISTING ELECTRIC TRANSFORMER		SOIL BORING
¥,	EXISTING FIRE HYDRANT	↓ ₹	EXISTING FLOOD LIGHT
, W	EXISTING WATER VALVE	, O	EXISTING ROCK
——— W ———	-EXISTING WATER MAIN		EXISTING WALL
(@)	EXISTING CLEANOUT	— O.H.T —	EXISTING OVERHEAD TELEPHONE
(SA)	EXISTING SANITARY MANHOLE	0.H.E	EXISTING OVERHEAD ELECTRIC
	EXISTING SANITARY	—1025 —	INDEX CONTOUR
	EXISTING MONITORING WELL	—1024 —	INTERMEDIATE CONTOUR
OWELL	EXISTING WELL	XX	EXISTING FENCE
$(\mathbf{w})$	EXISTING WATER MANHOLE	$\sim\sim\sim$	BRUSH LINE
8	EXISTING WATER INDICATOR POST VALVE		



### **ELEVATION DATUM**

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 18).

#### **GENERAL NOTES AND DETAILS**

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF TIPP CITY STANDARDS, DRAWINGS AND SPECIFICATIONS AND/OR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATION 800), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY.

### **UNDERGROUND UTILITIES**

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

#### **UTILITY OWNERSHIP**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

TELEPHONE

CABLE

3691 TURN RD.

937-3966-8611

541-390-3910

DAYTON, OH 45415

ATTN: MARY EVANS

CHARTER COMMUNICATION

FRONTIER COMMUNICATION

ATTN: CHARLES BERNACCHI

**10 MULBERRY STREET** 

CENTERPOINT ENERGY

CENTERVILLE, OH 45459

6500 CLYO ROAD

937-312-2565

BROOKVILLE, OH 45309

#### STREETS AND STORM SEWER CITY OF TIPP CITY 260 S. GARBER ST. TIPP CITY, OH 45371

937-667-6305 ATTN: ERIC MACK

#### WATER AND SANITARY

CITY OF TIPP CITY 260 S. GARBER ST. TIPP CITY, OH 45371 937-667-6305 ATTN: ERIC MACK

#### ELECTRIC

CITY OF TIPP CITY 301 NORTH SIXTH ST TIPP CITY, OH 45371 937-667-0519 ATTN: JERRY GEE

OHIO UTILITIES PROTECTION SERVICE 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764

### UTILITY INTERFERENCE

IF. DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS. UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY. AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

### **EXISTING TILE HOOKUPS**

THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY. CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES, UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

### GEOTECHNICAL ENGINEERING REPORT

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

### **CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO. OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT. OR EXISTING APPURTENANCE TO BE CONNECTED. DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, OWNER'S REPRESENTATIVE/CITY OF TIPP CITY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN. OWNER'S REPRESENTATIVE/CITY OF TIPP CITY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

#### MUD

THE TRACKING OR SPILLAGE OF MUD. DIRT. OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

### **EXISTING UTILITY CONFLICT NOTE**

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

### UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

### CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE. THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

#### SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE. MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

### **CONCRETE/MASONRY COLLAR**

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

### **DEWATERING AND BY-PASS PUMPING**

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

### **CLEAN WATER NOTE**

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

### SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

### STORM SEWER INSTALLATION

THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (i.e. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS, AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

**TYPES OF PIPE PERMITTED ODOT MATERIALS NUMBERS** CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP) 707.33 POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP) 707.65 POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35) 707.45 REINFORCED CONCRETE PIPE (RCP) 706.02

### **GENERAL NOTES**

1. ALL UTILITIES SHALL BE INSTALLED, TESTED, AND COMPLY WITH THE LATEST VERSION OF THE CITY OF TIPP CITY STANDARDS AND SPECIFICATIONS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER SEEDING SPECIFICATIONS.

3. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

4. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.

#### STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611. PIPE CULVERTS. SEWERS. DRAINS. AND DRAINAGE STRUCTURES. EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL, AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

### **MAINTAINING TRAFFIC**

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

### SUBCONTRACTOR SUPERVISION

MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT. JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT, ASPHALT MATERIAL SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.

### WATER LINE CROSSING SEPARATION

CONTRACTOR SHALL LOWER/DIP ANY EXISTING OR PROPOSED WATER LINES AS NEEDED TO OBTAIN AN 18" MINIMUM SEPARATION DISTANCE FROM THE WATER LINE TO ANY STORM OR SANITARY SEWER. WATER LINE SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY SEWERS. WHENEVER A SANITARY OR STORM SEWER AND WATER LINE MUST CROSS, THE SEWER AND WATER SHALL BE LAID AT SUCH AN ELEVATION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN THE OUTSIDE WALLS OF THE TWO PIPES. ALSO ONE FULL LENGTH OF WATERLINE SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE CONSTRUCTED OF WATER LINE TYPE MATERIALS WHICH WOULD BE ABLE TO WITHSTAND A 100 PSI PRESSURE TEST (NOTE: DO NOT PRESSURE TEST SEWER TO 100 PSI). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN. NO CHANGE OF MATERIALS ARE ALLOWED MID-SPAN. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

## DOWNSPOUTS

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS. ELECTRIC. TELEPHONE. CABLE TELEVISION. FIBER OPTIC. ETC. AS REQUIRED AND AS SHOWN ON UTILITY PLANS AND ARCHITECTURAL SHEETS. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING, PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION.

ChoiceOne

Engineering

SIDNEY, OHIO 937.497.0200

LOVELAND, OHIO 513.239.8554

www.CHOICEONEENGINEERING.com

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

### SAWCUT PAVEMENT JOINTS

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

### UTILITIES



### **REVIEW OF DRAINAGE FACILITIES**

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

### MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE.

### RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

### **MISCELLANEOUS**

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

### **GRAFFITI AND VANDALISM**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL WORK/ITEMS, INCLUDING ANY CONCRETE WORK, UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE DUE TO GRAFFITI OR VANDALISM DAMAGE.

### **OWNER COORDINATION NOTES**

THE CONTRACTOR SHALL COORDINATE THE PROPOSED WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK ON SITE. IF THE CONTRACTOR IS TO ENGAGE IN ANY OPERATIONS THAT AFFECT THE EXISTING FACILITY OPERATIONS, THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY SUCH OPERATIONS OR ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT, BRACING, AND OTHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY OWNER'S REPRESENTATIVE OR THE ENGINEER TO PROTECT THE SAFETY OF THE PUBLIC, ADJACENT STRUCTURES, ROADWAY AND/OR UTILITIES. ALL WORK TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

### **ITEM 611 SANITARY SE**

THIS ITEM OF WORK SHALL CONSIST OHIO DEPARTMENT OF TRANSPORTA SEWERS AND DRAINS, EXCEPT AS H

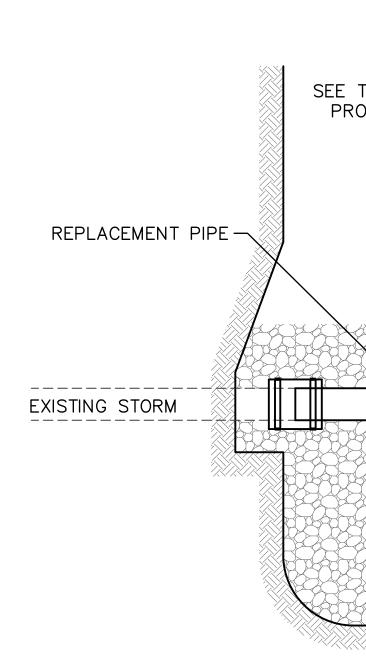
THIS WORK SHALL CONSIST OF EXC AND INSTALLATION OF THE NEW PV INCLUDING ALL BEDDING, BACKFILL, (STRUCTURAL OR NATIVE) AND ALL AND SPECIFICATIONS AND PER THE AND SPECIFICATIONS. THIS ITEM SH EXISTING SANITARY. ITEM SHALL AL NECESSARY FOR INSTALLATION OF

WHEN A NEW SANITARY SEWER MAI SEWER MAIN, A FERNCO COUPLING THE COUPLING AND ASSOCIATED WO COST OF THE PROPOSED SANITARY

IF NEEDED, THE CONTRACTOR SHAL THE EXISTING SANITARY SEWER IN OF THE NEW SANITARY SEWER. CO EXISTING FLOW FROM MANHOLE TO DURING CONSTRUCTION. CONTRACTOR PUMP AND NECESSARY PUMP LINE CONTRACTOR SHALL COORDINATE W REPRESENTATIVE ON THE PROCEDU

ALL SANITARY SYSTEM WORK, MATE AND TESTING SHALL BE PER PER 1 SPECIFICATIONS AND PER CITY OF SPECIFICATIONS.

PAYMENT OF ITEM 611, SANITARY S OPERATIONS DESCRIBED ABOVE SHA BID PRICE AND SHALL INCLUDE ALL REQUIRED TO COMPLETE THIS ITEM



PROPOSED CONDUIT

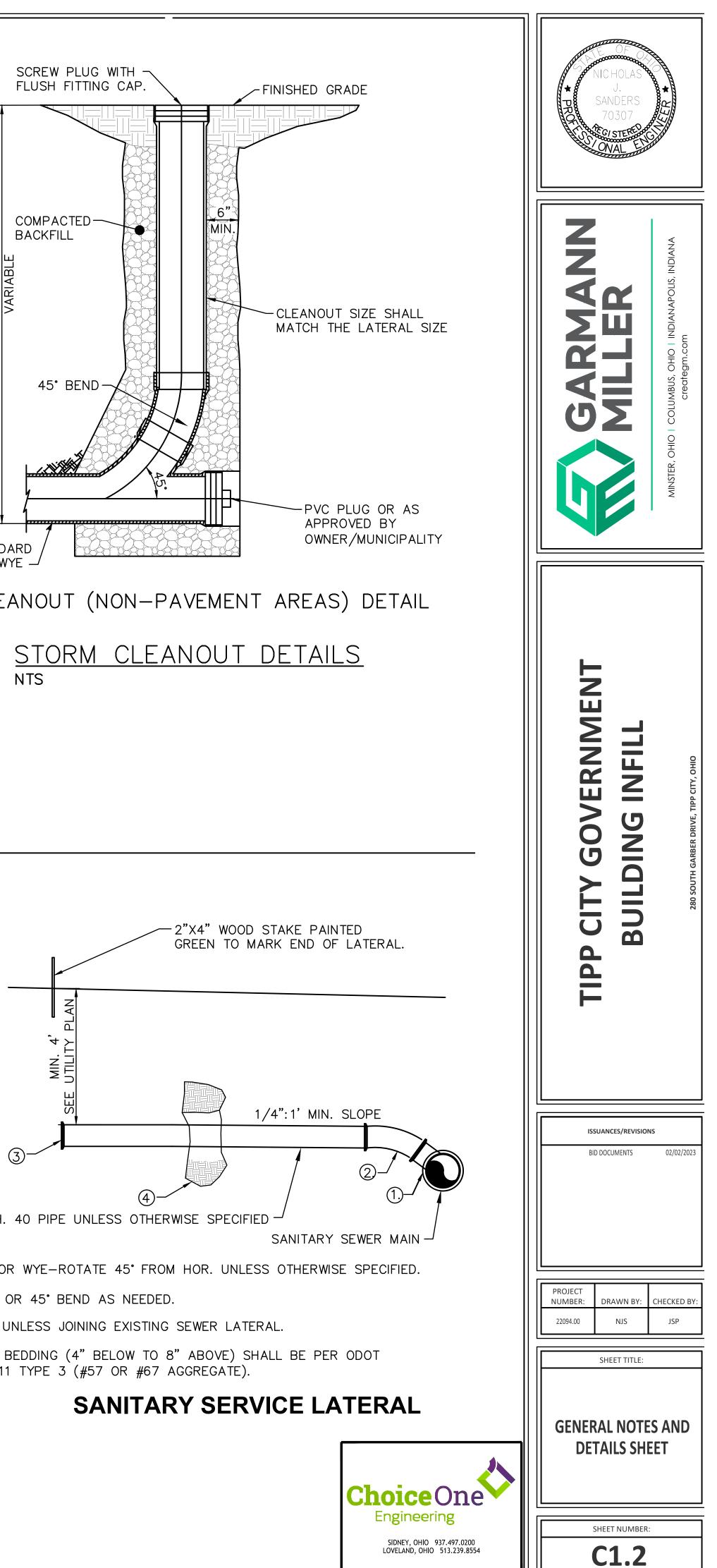
PROVIDE ADEQUATE STON TO SUPPORT REPLACED S PIPE, ODOT 703.11, T COMPACTED WASH

#### NOTES

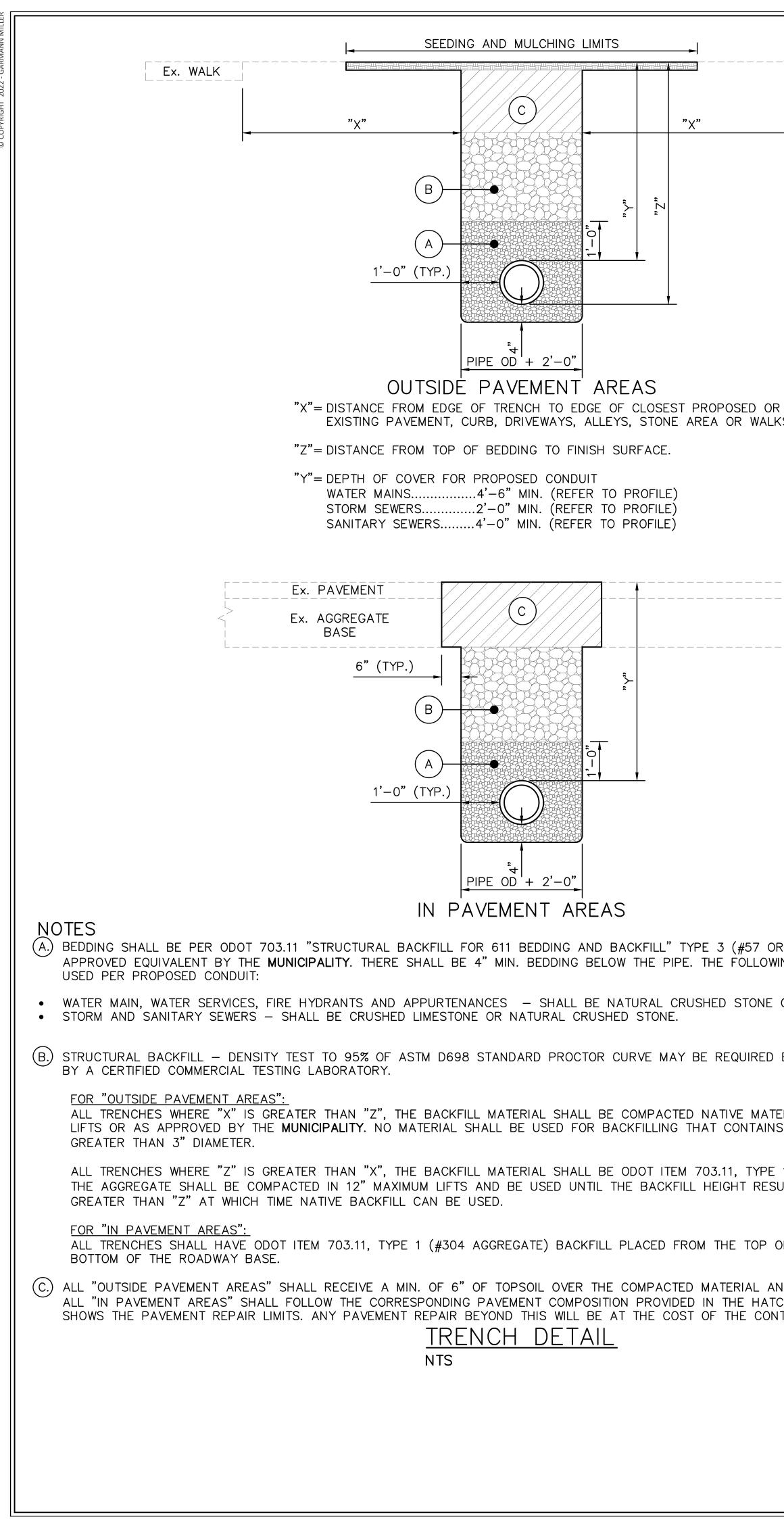
- A. CONCRETE REPAIRS
- B. ANY DRAINAGE TILE I BETTER THAN ITS OR NOTED ON THE AS-B
- C. ALL FIELD OR STORM OR PLUGGED AS APP

REPAIR OF

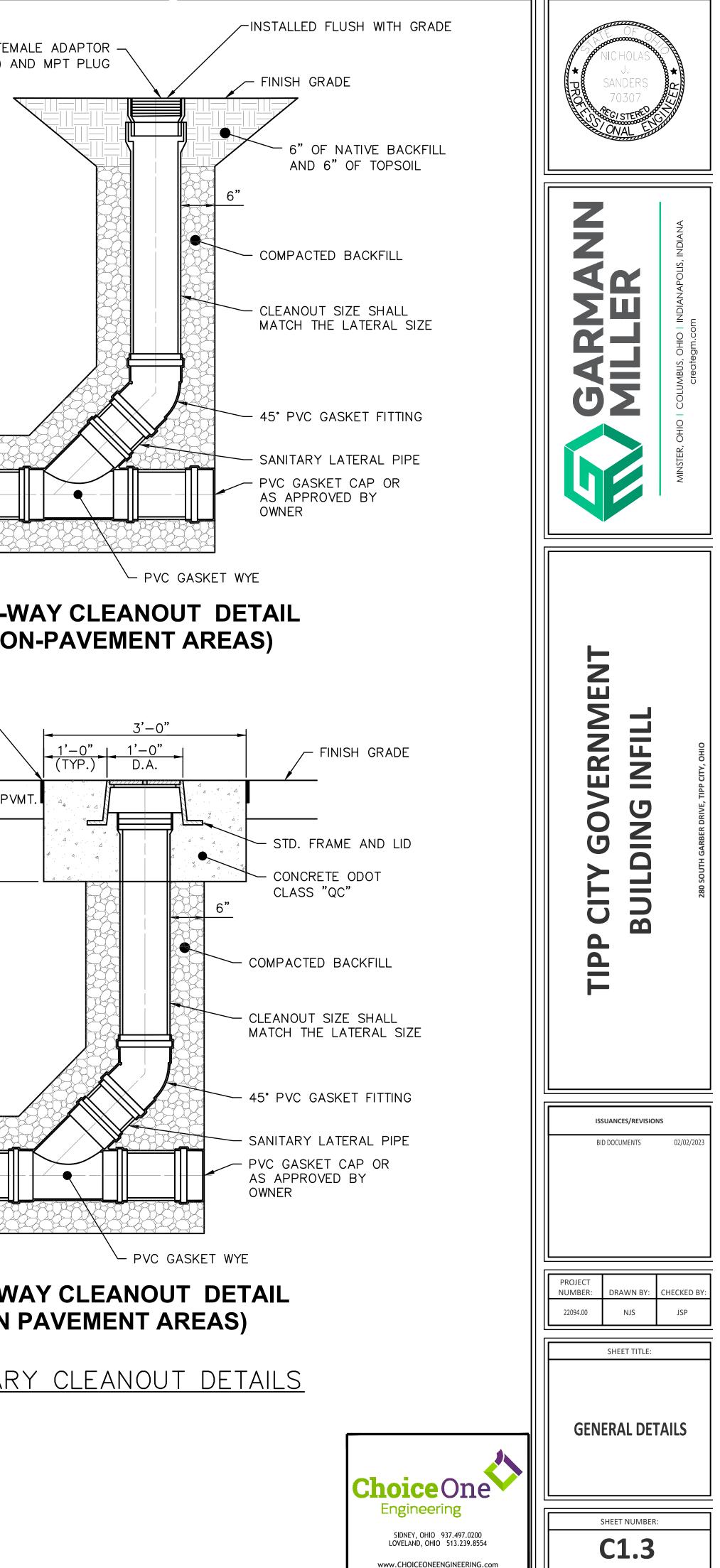
	-		
EWER, AS PER PLAN, I OF THE WORK AS DESCRIBED IN TION ITEM 611, PIPE CULVERTS, TEREIN MODIFIED. AVATION, STRUCTURAL BEDDING C SDR-35 SANITARY SEWER, COMPACTION OF BACKFILL TESTING PER THE PROJECT PLANS CITY OF TIPP CITY STANDARDS ALL ALSO INCLUDE CONNECTION TO SO INCLUDE DEWATERING SANITARY. N CONNECTS TO AN EXISTING SHALL BE INSTALLED. THE COST OF DRK SHALL BE INCLUDED IN THE SEWER. L BE RESPONSIBLE FOR KEEPING SERVICE DURING THE CONNECTION DNTRACTOR MAY NEED TO PUMP NEXT DOWNSTREAM MANHOLE DR IS TO HAVE ON SITE ONE SPARE IN CASE OF EMERGENCY. THE ITH THE CITY/OWNER'S RE THE CONTRACTOR WILL USE. ERIALS, PROCEDURES, INSTALLATION THE PROJECT PLANS AND TIPP CITY STANDARDS AND SEWER, AS PER PLAN, FOR ALL ALL BE INCLUDED IN THE LUMP SUM LABOR, MATERIAL AND EQUIPMENT OF WORK.	1	<ul> <li>NOTES</li> <li>A. CLEANOUT REQUIRED AT ALL R/W OR EASLINES.</li> <li>B. CLEANOUT MATERIALS SHALL BE SCHEDUL GLUED JOINTS OR SDR-35 PVC MATCHING LATERAL PIPE SIZE DIAMETER.</li> <li>C. CLEANOUT FRAME AND LID SHALL BE EQUINEENAH R-1976 OR EJIW 1578, HEAVY DUTHE LID MARKED "STORM"</li> <li>CLEANOUT STORM</li> <li>CLEANOUT LID LID TO BE MARKED "STORM"</li> </ul>	E 40 THE JAL TO
	NT REPAIR, TYPE DEPENDENT ON STING MATERIAL E CHART BELOW)		CLE
	EXISTING PIPE MATERIAL	JOINT REPAIR STAINLESS STEEL SOLID SLEEVE PLASTIC TO PLASTIC, PVC COUPLING ASTM D-3034/F-1336PSM OR EQUAL	
	OTHER THAN PVC (CLAY, DUCTILE, ETC.)	STAINLESS STEEL SOLID SLEEVE COUPLINGS WITH STAINLESS STEEL BANDS, EACH SIDE, OR EQUAL	
NE BEARING –/ SECTION OF TYPE 3 #57	СМР	CORRUGATED METAL PIPE COUPLING	
TYPE 3, #57 HED GRAVEL	RCP	CONCRETE COLLAR	
RIGINAL CONDITION. ANYTHING REMO BUILT DRAWINGS AND MUST BE INSP	VED, REPLACED, AND/OR CO PECTED BY THE INSPECTOR DURING CONSTRUCTION MUS IICIPALITY.	BEFORE THEY A RE-COVERED. ST BE PROVIDED WITH UNOBSTRUCTED OUTLETS	4" SCH. (1) TEE O (2) 22½ (3) CAP U (4) PIPE I 703.1



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Ex. PAVEMENT Ex. AGGREGATE	CLEANOUT NOTES A. CLEANOUT REQUIRED AT THE R/W OR EASEMENT LINE UNLESS OTHERWISE	PVC SDR-35 FEM (S x FPT) A
BASE	SHOWN IN THE PLANS. B. CLEANOUT MATERIALS SHALL BE SCH. 40 (GLUED JOINTS) OR SDR-35 PVC AND THE DIA. SHALL MATCH THE LATERAL PIPE DIA.	
	C. TRACER WIRE REQUIRED FOR EACH SANITARY SEWER LATERAL FROM THE MAIN TO THE CLEANOUT. TRACER WIRE SHALL BE EXTENDED UP THE CLEANOUT RISER TO A POINT JUST BELOW CLEANOUT CAP WHERE A 3/6" HOLE SHALL BE DRILLED THROUGH THE WALL OF THE PIPE.	SHT (SEE PLANS)
	D. CLEANOUT FRAME AND LID SHALL BE NEENAH R—1976 OR EJIW V—1579, WITH THE LID MARKED "SANITARY".	BLE HEIGHT
S.	E. THE CLEANOUT AND ALL THE COMPONENTS SHOWN IN THE DETAILS SHALL BE INCLUDED IN THE COST OF SANITARY SEWER LATERALS.	VARIABLE
	ELE MARKED "SANITARY"	ONE-V (NO
		1/2" EXPANSION JOINT ALL AROUND WHEN PLACED IN CONC. PAVEMENT
		(SEE PLANS)
R #67 AGGREGATE), OR OTHER ING BEDDING MATERIAL SHALL BE		HEIGHT
OR NATURAL GRAVEL.		VARIABLE
BY MUNICIPALITY TO BE COMPLETED		>
ERIAL IN 12" MAXIMUM S STONE, ROCKS, ETC.,		
1 (#304 AGGREGATE). JLTS IN "X" BEING		
OF THE BEDDING TO THE		ONE-W (IN
ND THEN SEEDED PER ODOT 659. CH LEGEND. THE TRENCH DETAIL TRACTOR.		SANITAR
		<u>SAMTAN</u> NTS



#### NOTES:

CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

ALL UTILITIES TO BE INSTALLED PER CITY OF TIPP CITY STANDARDS.

CONTRACTOR TO VERIFY AND LOCATE WHERE STORM, SANITARY, AND WATER LATERALS AND ALL OTHER PROPOSED UTILITY SERVICES TIE INTO THE PROPOSED BUILDING PER BUILDING PLANS. CONTRACTOR SHALL ALSO VERIFY THE SIZES AND TYPES OF ALL LATERALS AND HOW THEY MAY TIE INTO THE PROPOSED BUILDINGS.

CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED UTILITIES INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

CONTRACTOR TO COORDINATE ALL WORK WITH THE OWNER AS NEEDED/REQUIRED.

#### **DOWNSPOUT PIPING NOTE:**

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

#### EXISTING BUILDING STORM, DOWNSPOUTS AND ROOF DRAINS NOTE:

FOR ALL EXISTING ROOF DRAINS AND/OR DOWNSPOUTS FROM THE EXISTING BUILDING THAT ARE ENCOUNTERED OR DISTURBED WITHIN THE PROJECT AREA. CONTRACTOR SHALL REROUTE AND TIE THEM INTO THE PROPOSED STORM SYSTEM. IF THERE ARE ANY ADDITIONAL ROOF DRAINS OR DOWNSPOUTS DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL TIE THEM INTO THE PROPOSED STORM SEWER AS NEEDED/REQUIRED AND AS DIRECTED BY THE OWNER.

THERE MAY BE EXISTING STORM LINES IN THE AREA OF THE EXISTING BUILDING(S) THAT PICK UP THE EXISTING DOWNSPOUTS FROM THE EXISTING BUILDING(S). THE SIZE, LOCATION, DEPTH, ROUTING OF THESE EXISTING DOWNSPOUT COLLECTOR LINES IS UNKNOWN. CONTRACTOR SHALL BE AWARE OF THAT THIS PIPING MAY BE PRESENT AND SHALL ENSURE ALL EXISTING DOWNSPOUTS AND THEIR RELATED PIPING REMAINS IN SERVICE THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

#### EXISTING "APPROXIMATE" AND/OR "PER PLANS" UNDERGROUND UTILITIES NOTE:

EXISTING UNDERGROUND UTILITIES LABELED AS "APPROXIMATE" AND/OR "PER PLANS" HAVE BEEN SHOWN BASED ON PREVIOUS PLANS AND OLD SITE INFORMATION AND THEIR EXACT LOCATION, DEPTH, SIZE, TYPE, SLOPE, ETC. ARE UNKNOWN. CONTRACTOR SHALL TAKE THIS INTO ACCOUNT FOR ALL WORK RELATED TO AND/OR INVOLVING THESE UTILITIES AND SHALL FIELD VERIFY AND/OR DETERMINE ALL INFO FOR THESE UTILITIES PRIOR TO CONSTRUCTION.

#### **EXISTING UTILITY NOTES:**

CONTRACTOR SHALL DETERMINE THE TYPE OF SERVICE FOR ALL EXISTING UNDERGROUND LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION AND SHALL ENSURE THE FOLLOWING:

1. THAT ALL EXISTING STORM LINES OR ANY OTHER EXISTING CLEAN WATER DRAINAGE LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE OR NEED TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO THE PROPOSED OR EXISTING STORM SEWER.

2. THAT ALL EXISTING SANITARY LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING SANITARY SEWER LINES/STRUCTURES OR INTO PROPOSED SANITARY SEWER LINES/STRUCTURES.

3. THAT ALL EXISTING WATER LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING WATER LINES OR INTO PROPOSED WATER LINES.

ALL WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REP. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

#### **UNKNOWN EXISTING UNDERGROUND UTILITIES:**

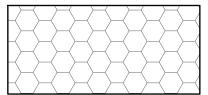
CONTRACTOR TO BE AWARE THERE MAY BE OTHER UNKNOWN SERVICES OR UNKNOWN UNDERGROUND UTILITIES OR ITEMS WHICH MAY BE LOCATED WITHIN THE SITE AND MAY REQUIRE REMOVAL OR REROUTING IN ORDER TO PERFORM THE PROPOSED PROJECT. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY UNKNOWN UNDERGROUND UTILITIES OR OTHER ITEMS WHICH ARE ENCOUNTERED AND WORK WITH THE OWNER TO DECIDE HOW THESE ITEMS SHOULD BE HANDLED.

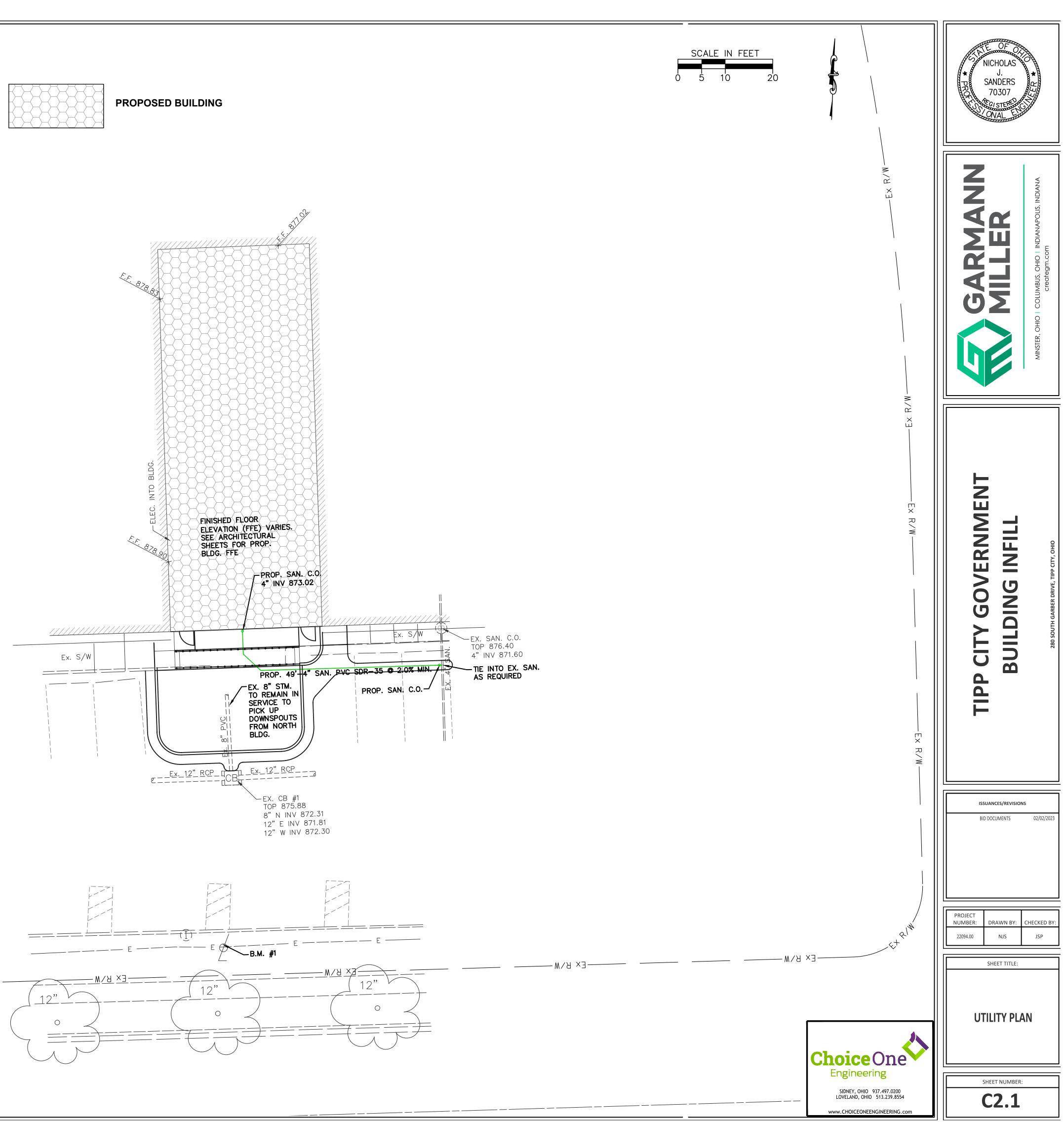
#### **ELECTRICAL/MECHANICAL NOTE:**

CONTRACTOR SHALL REFER TO THE ELECTRICAL/MECHANICAL DRAWINGS FOR DEMOLITION AND/OR INSTALLATION INFO. OF ALL EXISTING AND PROPOSED ELECTRICAL/MECHANICAL ITEMS FOR THE SITE AND/OR HOW THESE ITEMS ARE TO BE HANDLED AND ADDRESSED.

#### GAS, ELECTRIC, COMMUNICATION CONFLICT NOTE:

CONTRACTOR TO LOWER/DIP THESE UTILITIES AS NEEDED TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING SANITARY OR STORM OR WATER LINES THEY MAY CONFLICT WITH. IF THESE UTILITY LINES CONFLICT WITH ANY PROPOSED OR EXISTING WATERLINES THEN CONTRACTOR TO DETERMINE WHETHER TO LOWER/DIP THE WATERLINE OR LOWER/DIP THE GAS/ELECTRIC/COMMUNICATION LINE(S). CONTRACTOR MAY NEED TO CONSULT WITH AND OBTAIN OWNER'S APPROVAL AS TO WHICH UTILITY WILL BE LOWERED PRIOR TO PERFORMING THIS WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.





#### NOTES:

CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHERE EVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHERE EVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE

CONTRACTOR TO ENSURE ALL AREAS OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

#### **GRADE TIE IN NOTE:**

CONTRACTOR TO TIE INTO EXISTING ELEVATIONS THROUGHOUT THE SITE. CONTRACTOR SHALL ENSURE PROPER GRADING AND DRAINAGE IS PROVIDED FOR ALL AREAS WITHIN THE SITE TO DRAIN TO EXISTING OR PROPOSED STORM SYSTEMS OR SWALES. CONTRACTOR SHALL ENSURE THAT DRAINAGE IS PROPERLY DIRECTED AWAY FROM ANY BUILDINGS/STRUCTURES. THIS SHALL INCLUDE ALL TEMPORARY GRADING AS NEEDED INCLUDING INSTALLING TEMPORARY DRAINAGE SWALES AND INSTALLING ALL TEMPORARY STORM SEWER CATCH BASINS, INLETS, PIPING, ETC. AS NEEDED TO ENSURE PROPER DRAINAGE OF THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION. ALL WORK TO BE COORDINATED WITH AND AS DIRECTED BY OWNER'S REPRESENTATIVE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE

CONTRACTOR TO ENSURE ALL AREAS OF THIS PORTION OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

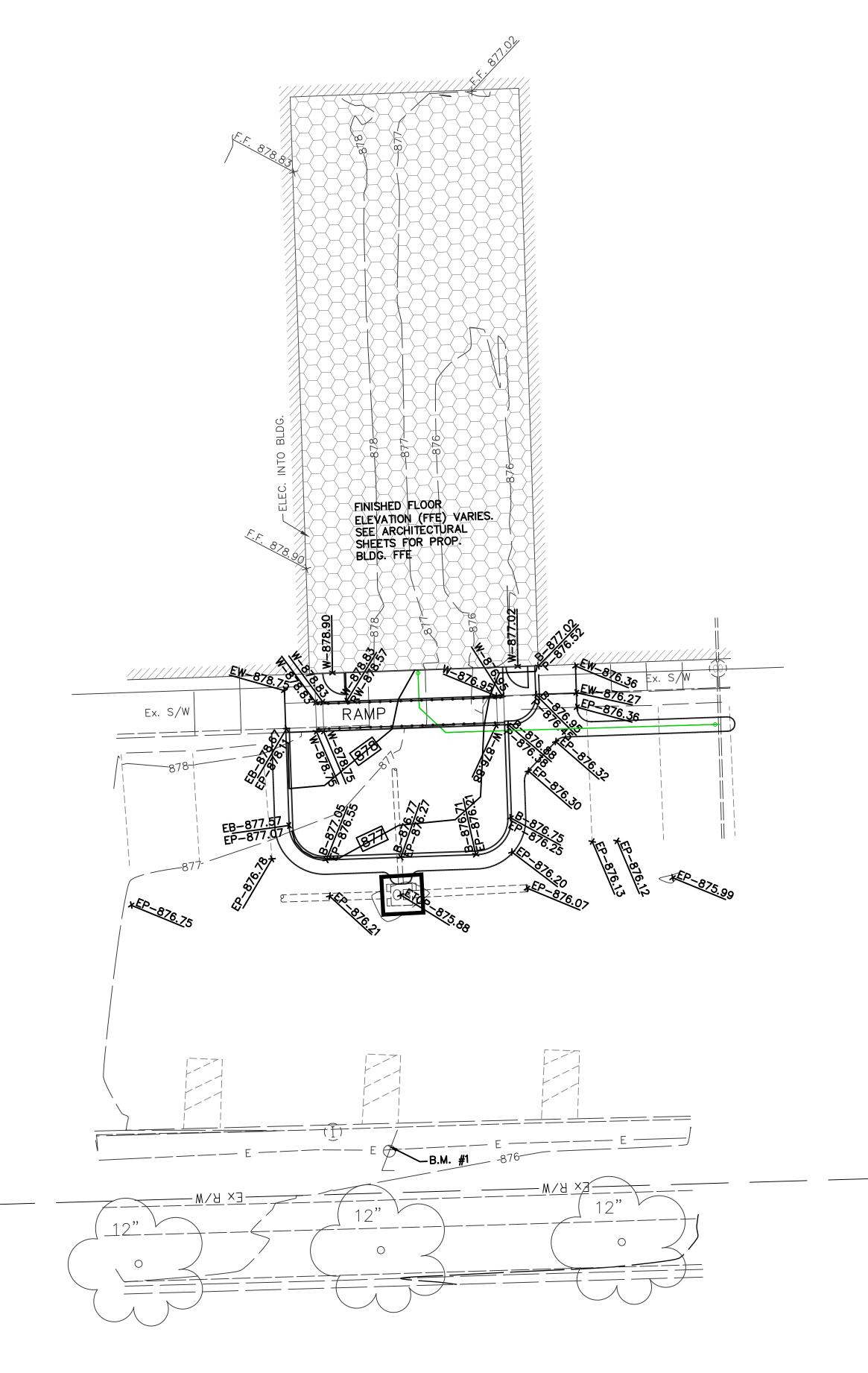
#### **GRADING LIMITS NOTE:**

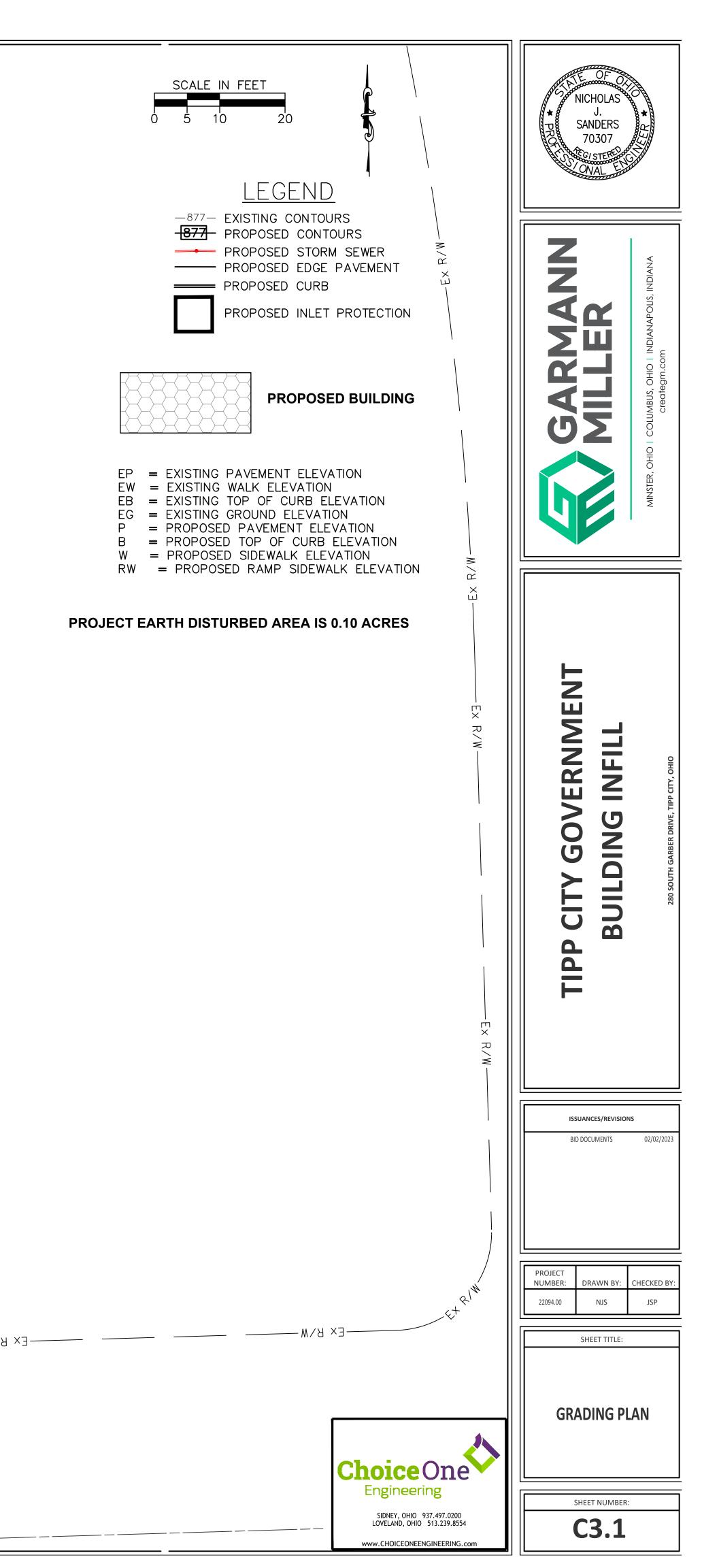
CONTRACTOR SHALL VERIFY THE FOLLOWING WITH THE CONSTRUCTION MANAGER AND OWNER'S REPRESENTATIVE:

1. AREAS WHERE GRADING OPERATIONS ARE TO TAKE PLACE.

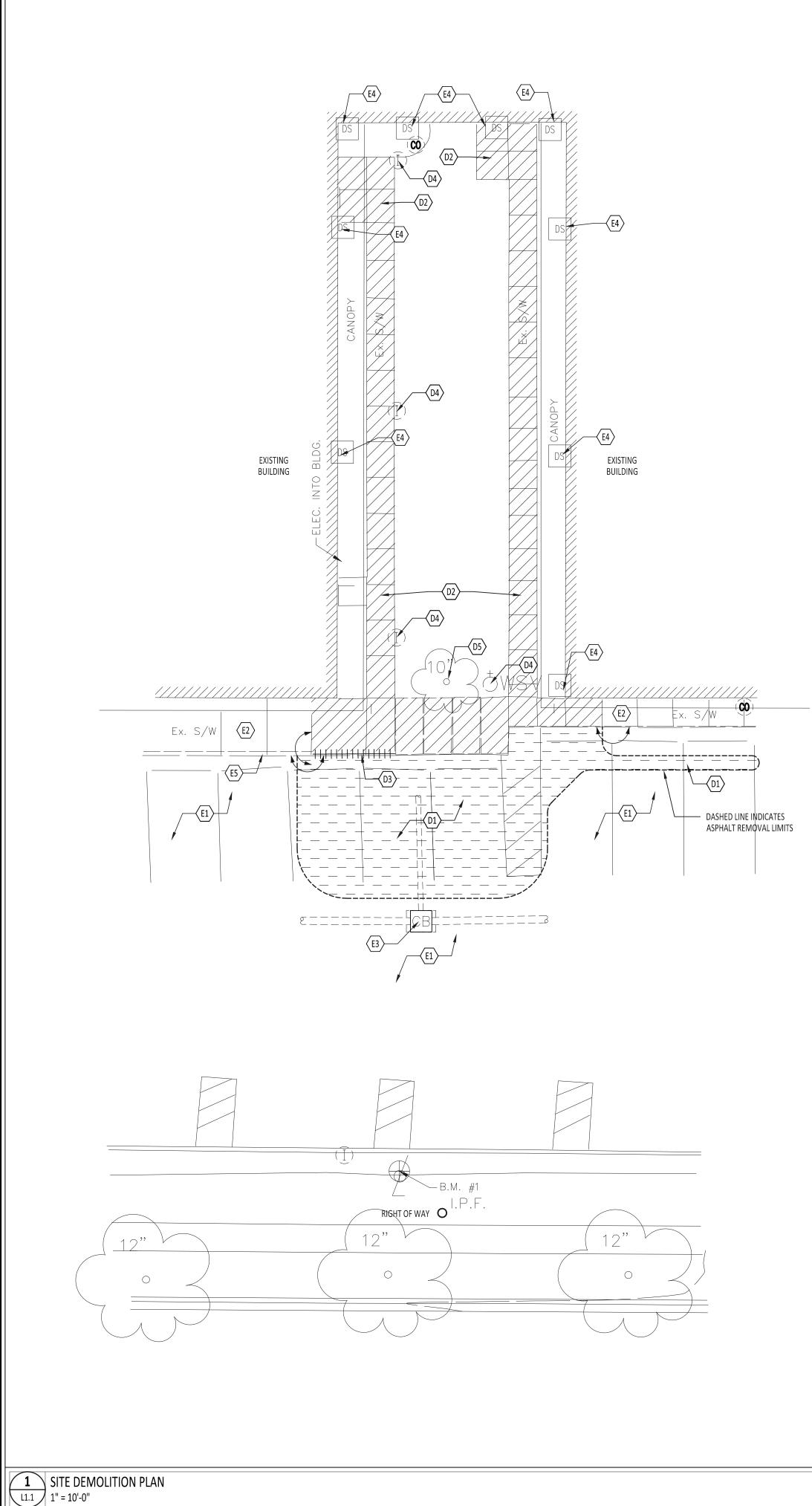
AREAS WHERE GRADING OPERATIONS ARE NOT TO TAKE PLACE.
 GRADING LIMITS.

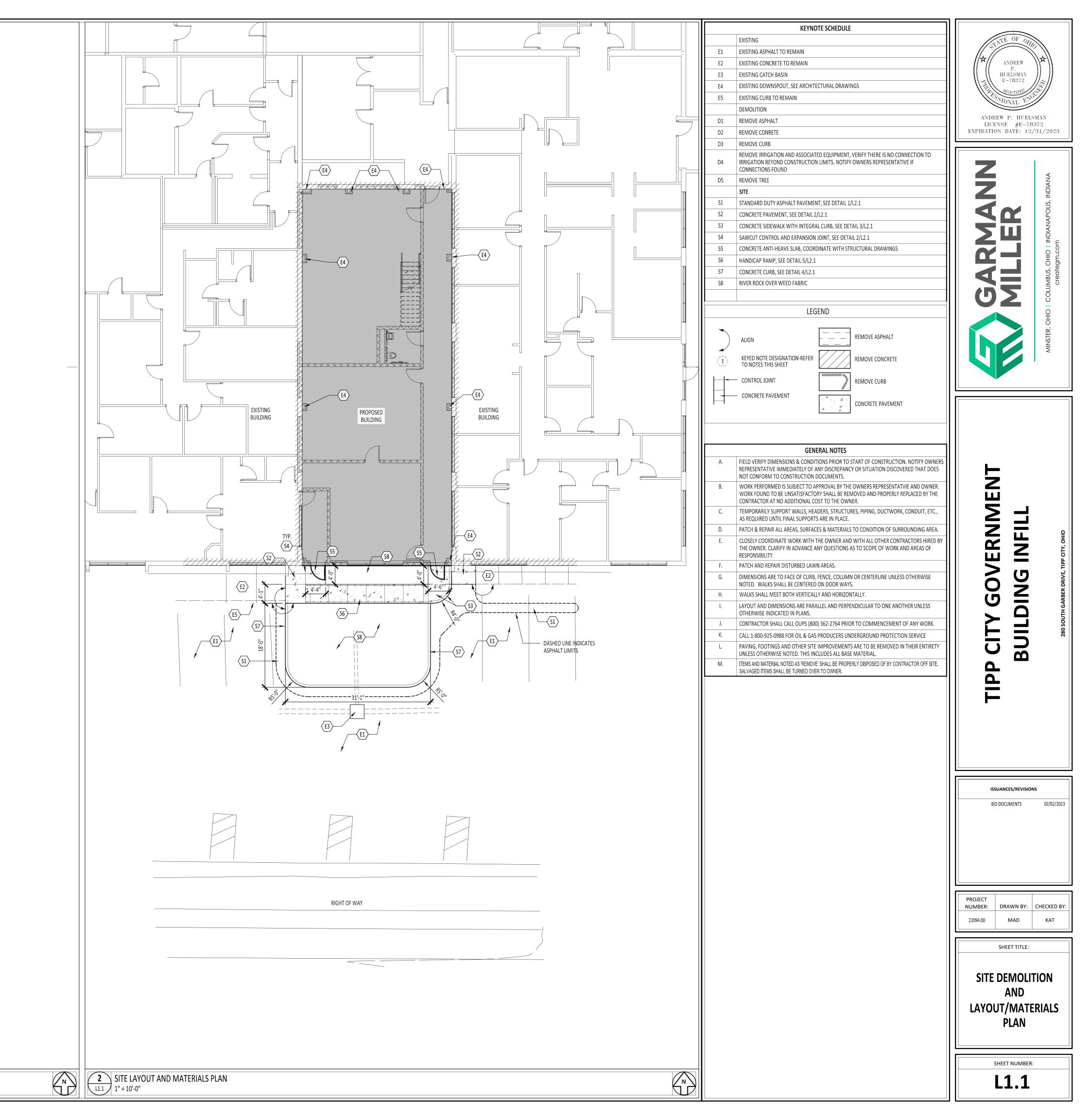
4. GRADING TIE-IN POINTS TO EXISTING GRADES.



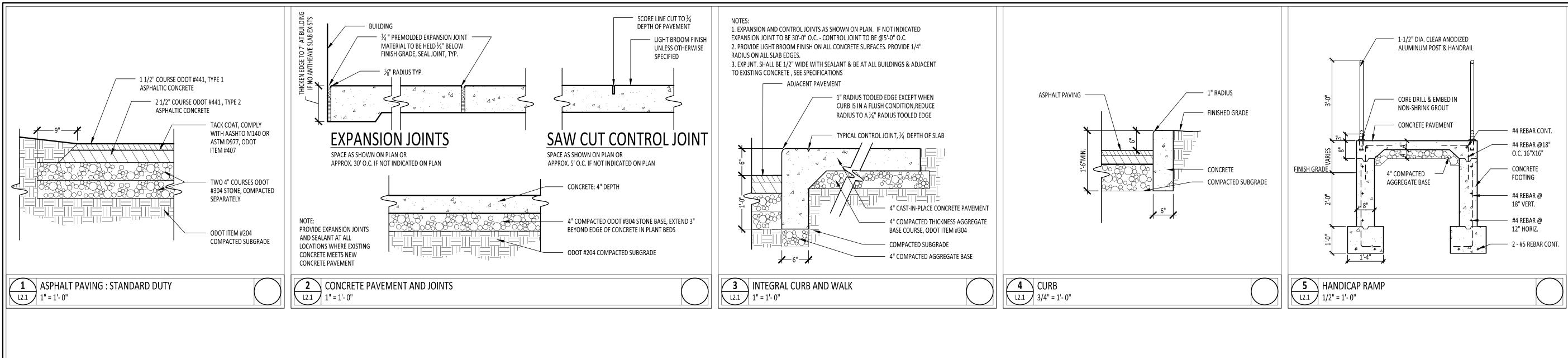












ANDREW P. HUELSMAN E-78372 MCGISTERS STONAL EN ANDREW P. HUELS LICENSE #E-78 EXPIRATION DATE: 12/	MAN
<b>GARMANN</b> MILLER	MINSTER, OHIO   COLUMBUS, OHIO   INDIANAPOLIS, INDIANA creategm.com
TIPP CITY GOVERNMENT BUILDING INFILL	280 SOUTH GARBER DRIVE, TIPP CITY, OHIO
ISSUANCES/REVISION BID DOCUMENTS	IS 02/02/2023
PROJECT NUMBER: DRAWN BY: 22094.00 MAD	CHECKED BY: KAT
SHEET TITLE:	
SITE DETAI	LS
SHEET NUMBER:	
L2.1	

- ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW. AB - ANCHOR BOLT AC - AIR CONDITIONING ACC - ACCESSIBLE ACOUS - ACOUSTICAL ACT - ACOUSTICAL CEILING TILE AD - AREA DRAIN ADD - ADDITIONAL ADJ - ADJUSTABLE AFF - ABOVE FINISHED FLOOR AFP - ACCORDION FOLDING PARTITION AGGR - AGGREGATE ALT - ALTERNATE ALUM - ALUMINUM ANCH - ANCHOR ANOD - ANODIZED AP - ACCESS PANEL APPD - APPROVED APPROX - APPROXIMATE AR - ACID RESISTANT ARCH - ARCHITECTURAL ASPH - ASPHALT AUTO - AUTOMATIC AV - AUDIO-VISUAL AWT - ACOUSTICAL WALL TREATMENT BEJ - BRICK EXPANSION JOINT BD - BOARD BIT - BITUMINOUS BLDG - BUILDING BLK - BLOCK BLKG - BLOCKING BM - BEAM / BENCHMARK B/O - BOTTOM OF BOT - BOTTOM BRG - BEARING BS - BOILER STACK BSMT - BASEMENT BT - BOLT BUR - BUILT-UP ROOF BYND - BEYOND C - CLOSURE CAB - CABINET CAT - CATEGORY CB - CATCH BASIN CBD - CHALK BOARD CBU - CEMENTITIOUS BACKER UNIT CEM - CEMENT CER - CERAMIC CG - CORNER GUARD CH - CABINET HEATER / CEILING HEIGHT CHNL - CHANNEL CI - CAST IRON CIP - CAST IN PLACE CJ - CONTROL JOINT CL - CENTERLINE CLG - CEILING CLR - CLEAR CMP - CORRUGATED METAL PIPE CMT - CERAMIC MOSAIC TILE CMU - CONCRETE MASONRY UNIT CNTR - COUNTER CO - CLEANOUT COL - COLUMN COMP - COMPACT COMPR - COMPRESSIBLE CONC - CONCRETE COND - CONDITION CONN - CONNECTION CONST - CONSTRUCTION CONT - CONTINUOUS / CONTINUE CONTR - CONTRACTOR COORD - COORDINATE CORR - CORRUGATED / CORRIDOR CPT - CARPET CT - CERAMIC TILE CTR - CENTER CTSK - COUNTER SINK CTYD - COURTYARD CW - COLD WATER CWF - CEMENTITIOUS WOOD FIBER **D____** D - DEPTH DA - DISABLED DBL - DOUBLE DC - DISPLAY CASE DEMO - DEMOLITION DEPT - DEPARTMENT DET - DETAIL DF - DRINKING FOUNTAIN DIM - DIMENSION DISP - DISPENSER DIV - DIVISION DL - DEAD LOAD DMPF - DAMPPROOFING DMT - DEMOUNTABLE DN - DOWN DO - DOOR OPENING DP - DIMENSION POINT DPTN - DEMOUNTABLE PARTITION DR - DOOR DRN - DRAIN DS - DOWNSPOUT DW - DISHWASHER DWC - DRINKING WATER COOLER DWG - DRAWING DWR - DRAWER

E - EAST EA - EACH EB - EXPANSION BOLT EF - EACH FACE EFS - DIRECT APPLIED EXTERIOR FINISH SYSTEM EIFS - EXTERIOR INSULATION FINISH SYSTEM EJ - EXPANSION JOINT EL - ELEVATION ELEC - ELECTRICAL ELEV - ELEVATOR EMERG - EMERGENCY ENCL - ENCLOSURE ENGR - ENGINEER EP - ELECTRICAL PANELBOARD EPDM - ETHYLENE PROPYLENE DIENE M-CLASS ROOFING EPX - EPOXY EQ - EQUAL EQUIP - EQUIPMENT ESCAL - ESCALATOR EW - EACH WAY EXH - EXHAUST EX / EXIST - EXISTING EXP - EXPANSION EXT - EXTERIOR EXTN - EXTENSION <u>F____</u> FA - FIRE ALARM FB - FACE BRICK FC - FACE FCO - FLOOR CLEANOUT FD - FLOOR DRAIN FDC - FIRE DEPARTMENT CONNECTION FDV - FIRE DEPARTMENT VALVE FE - FIRE EXTINGUISHER / FINISH END FEC - FIRE EXTINGUISHER CABINET FF - FINISH FLOOR FF&E - FURNITURE, FINISHES & EQUIPMENT FH - FLAT HEAD FHC - FIRE HOSE CABINET FIN - FINISH FIXT - FIXTURE FLR - FLOOR FLASH - FLASHING FLUOR - FLUORESCENT FM - FILLED METAL FND - FOUNDATION F/O - FACE OF FP - FIRE PROTECTION FPG - FIREPROOFING FR - FRAME FRTW - FIRE RETARDANT TREATED WOOD FSR - FLEXIBLE SHEET ROOFING FSSK - FLOOR SERVICE SINK FTG - FOOTING FURN - FURNITURE FURR - FURRING FWC - FABRIC WALLCOVERING FWP - FABRIC WALL PANEL FVC - FIRE VALVE CABINET <u>G____</u> G - GROUND GA - GAUGE GALV - GALVANIZED GB - GRAB BAR GC - GENERAL CONTRACTOR GFCMU - GROUND-FACED CONCRETE MASONRY UNIT GFRC - GLASS FIBER REINFORCED CONCRETE GFRGU - GLASS FIBER REINFORCED GYPSUM UNIT GL - GLASS GR - GRADE GRD - GROUND GWB - GYPSUM WALLBOARD H_____ HB - HOSE BIBB HC - HOLLOW CORE HCP - HANDICAPPED HDW - HARDWARE HDWD - HARDWOOD HGT - HEIGHT HM - HOLLOW METAL (STEEL FRAME) HNDRL - HANDRAIL HO - HOLD OPEN HORIZ - HORIZONTAL HRC - HOSE REEL CABINET

HS - HIGH STRENGTH

HW - HOT WATER

HWY - HIGHWAY

HYDR - HYDRAULIC

ID - INSIDE DIAMETER

INFO - INFORMATION

INTERM - INTERMEDIATE

INSUL - INSULATION

INCAND - INCANDESCENT

ILO - IN LIEU OF

INCL - INCLUDE

INT - INTERIOR

INV - INVERT

JAN - JANITOR

JC - JANITORIAL CLOSET

<u>J</u>____

JST - JOIST

JT - JOINT

HVAC - HEATING, VENTILATING & AIR CONDITIONING

IRGWB - IMPACT RESISTANT GYPSUM WALLBOARD

KIT - KITCHEN KPL - KICK PLATE KO - KNOCKOUT L____ L - LENGTH LAB - LABORATORY LAM - LAMINATE LAV - LAVATORY LDG - LANDING LKR - LOCKER LL - LIVE LOAD LLH - LONG LEG HORIZONTAL LLV - LONG LEG VERTICAL LN - LINE LPT - LOW POINT LT - LIGHT LVR - LOUVER LW - LONG WAY MACH - MACHINE MAINT - MAINTENANCE MAS - MASONRY MATL - MATERIAL MAX - MAXIMUM MB - MARKER BOARD MBL - MARBLE MDF - MEDIUM DENSITY FIBERBOARD MEP - MECHANICAL, ELECTRICAL & PLUMBING MECH - MECHANICAL MEMB - MEMBRANE MEZZ - MEZZANINE MFR - MANUFACTURER MH - MOP HOLDER / MAN HOLE MIN - MINIMUM / MINUTE MISC - MISCELLANEOUS MO - MASONRY OPENING MRGWB - MOISTURE-RESISTANT GYPSUM WALLBOARD MRT - MORTAR MTD - MOUNTED MTG - MOUNTING MTL - METAL MULL - MULLION N - NORTH NA - NOT APPLICABLE NC - NOISE CRITERIA NIC - NOT IN CONTRACT NOM - NOMINAL NTS - NOT TO SCALE OA - OUTSIDE AIR OC - ON CENTER OCEW - ON CENTER EACH WAY OD - OUTSIDE DIAMETER OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED OFOI - OWNER FURNISHED, OWNER INSTALLED OFF - OFFICE OH - OVERHEAD OPH - OPPOSITE HAND OPNG - OPENING OPP - OPPOSITE ORD - OVERFLOW ROOF DRAIN OUTS - OUTSIDE OVHD - OVERHEAD OW - OPERABLE WALL P - PAINT PA - PUBLIC ADDRESS PAV - PAVING PARTN - PARTITION PATD - PAPER TOWEL DISPENSER PBD - PARTICLEBOARD PC - PRECAST CONCRETE PERF - PERFORATED PERIM - PERIMETER PERP - PERPENDICULAR PLAM - PLASTIC LAMINATE PLAS - PLASTER PL - PROPERTY LINE / PLATE PLBG - PLUMBING PLYWD - PLYWOOD PNL - PANEL POL - POLISHED PR - PAIR PREFAB - PREFABRICATED PROJ - PROJECT PS - PROJECTION SCREEN PSS - PENCIL SHARPENER SUPPORT PT - PAINT PTN - PARTITION PTR - PAPER TOWEL RECEPTACLE PV - PAVERS PVC - POLYVINYL CHLORIDE PIPE PVMT - PAVEMENT **Q____** QT - QUARRY TILE QTY - QUANTITY

ABBREVIATIONS

R
R - RADIUS
RA – RETURN AIR
RB - RESILIENT BASE
RBR - RUBBER
RCP - REFLECTED CEILING PLAN
RD - ROOF DRAIN
REC - RECESSED
RECOM - RECMMENDED
RECPT - RECEPTACLE
REF - REFERENCE
REFL - REFLECT
REFR - REFRIGERATOR
REG - REGISTER
REINF - REINFORCE
REM - REMOVABLE
REQD - REQUIRED
RESIL - RESILIENT
REV - REVISION
RFG - ROOFING
RM - ROOM
RO - ROUGH OPENING
ROW - RIGHT OF WAY
RTD - RATED
RTG - RATING

<u>s</u> s - south SA - SUPPLY AIR SAN - SANITARY SC - SOLID CORE SCWD - SOLID CORE WOOD DOOR SCHED - SCHEDULE SD - STORM DRAIN / SMOKE DETECTOR SECT - SECTION SEW - SEWER SFCMU - SPLIT-FACED CONCRETE MASONRY UNIT SGFT - STRUCTURAL GLAZED FACING TILE SH - SHOWER SHT - SHEET SIM - SIMILAR SLR - SEALER SM - SHEET METAL SND - SANITARY NAPKIN DISPENSER SPECS - SPECIFICATIONS SPKR - SPEAKER SPH - SPRINKLER HEAD SPR - SPRINKLER SQ - SQUARE SS - STAINLESS STEEL SSE - STRUCTURAL SLAB ELEVATION SSF - SOLID SURFACE SSK - SERVICE SINK ST - STORM / STREET STA - STATION - SOUND TRANSMISSION COEFFICIENT STC STD - STANDARD STE - SUITE STL - STEEL STLJST - STEEL JOIST STN - STAIN STOR - STORAGE STRG - STRINGER STRUCT - STRUCTURAL SUBCAT - SUBCATEGORY SUSP - SUSPENDED SW - SHORT WAY / SIDEWALK SYMM - SYMMETRICAL SYNTH - SYNTHETIC SYS - SYSTEM

T - TREAD / THERMOSTAT T&B - TOP AND BOTTOM T&G - TONGUE AND GROOVE TA - TOILET ACCESSORY TB - TOWEL BAR TEL - TELEPHONE TEMP - TEMPERATURE TER - TERRAZZO THK - THICKNESS THRES - THRESHOLD THRU - THROUGH TKBD - TACKBOARD TMPD - TEMPERED T/O - TOP OF TPD - TOILET PAPER DISPENSER TS - TRANSITION STRIP TV - TELEVISION TYP - TYPICAL TWS - TACKABLE WALL SURFACE

U____ UNFIN - UNFINISHED UNO - UNLESS NOTED OTHERWISE UV - UNIT VENTILATOR

UR - URINAL

VERT - VERTICAL VEST - VESTIBULE VIF - VERIFY IN FIELD VIT - VITREOUS

- VOL VOLUME
- VR VAPOR RETARDER VRB - VENTED RESILIENT BASE
- VS VENT STACK
- VT VINYL (ENHANCED / COMPOSITION) TILE VWC - VINYL WALL COVERING

W -	WEST / WIDTH
W/	- WITH
W/0	- WITHOUT
WA	- WARDROBE ACCESSORIES
WB	- WOOD BASE
WC	- WATER CLOSET
WD	- WOOD
WDW	- WINDOW
WGT	- WEIGHT
WH	- WATER HEATER
WP	- WATERPROOFING
WPM	- WATERPROOF MEMBRANE
WR	- WATER RESISTANT / REPELLANT
WS	- WEATHERSTRIPPING
WSCT	- WAINSCOT
WSSK	- WALL SERVICE SINK
WT	- WINDOW TREATMENT
WVR	- WOOD VENEER
WW	- WALL TO WALL
WWF	- WELDED WIRE FABRIC

<u>Y____</u> YD - YARD / YARD DRAIN

#### COMMON CHARACTERS #/NO - NUMBER

#/1	
°/D	EG - DEGREE
Ø/D	DIA - DIAMETER
□/S	Q - SQUARE
1	- FEET
н	- INCH
L	- ANGLE
&	- AND
@	- AT
d	- PENNY (NAILS)
=	- EQUAL
CON	IMON MEASUREMENTS
°C	- CELCIUS
°F	- FAHRENHEIT
AC	- ACRES
BTU	- BRITISH THERMAL UNIT
BTU	H - BRITISH THERMAL UNIT PER HOUR
CF	- CUBIC FEET
CFM	- CUBIC FEET PER MINUTE

CI - CUBIC INCH

CY - CUBIC YARD

Db - DECIBEL

IN - INCH

FT - FEET

HR - HOUR

GAL - GALLONS

KG - KILOGRAM

LB - POUND

M - METER

KW - KILOWATT

LF - LINEAR FOOT

MIN - MINUTE

MM - MILLIMETER

SI - SQUARE INCH

SY - SQUARE YARD

GPF - GALLONS PER FLUSH

GPH - GALLONS PER HOUR

KWH - KILOWATT PER HOUR

PLF - POUNDS PER LINEAR FOOT

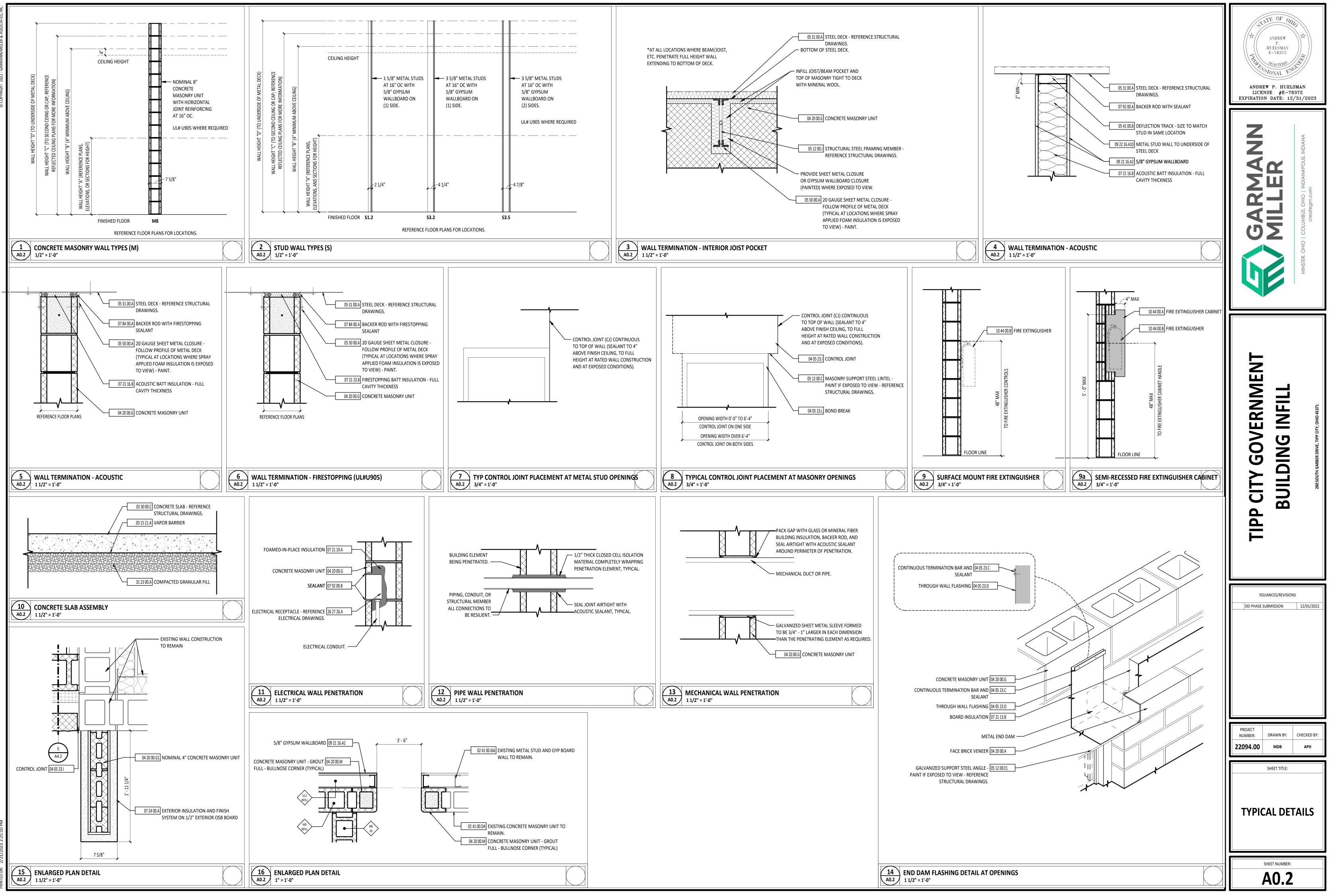
PSF - POUNDS PER SQUARE FOOT

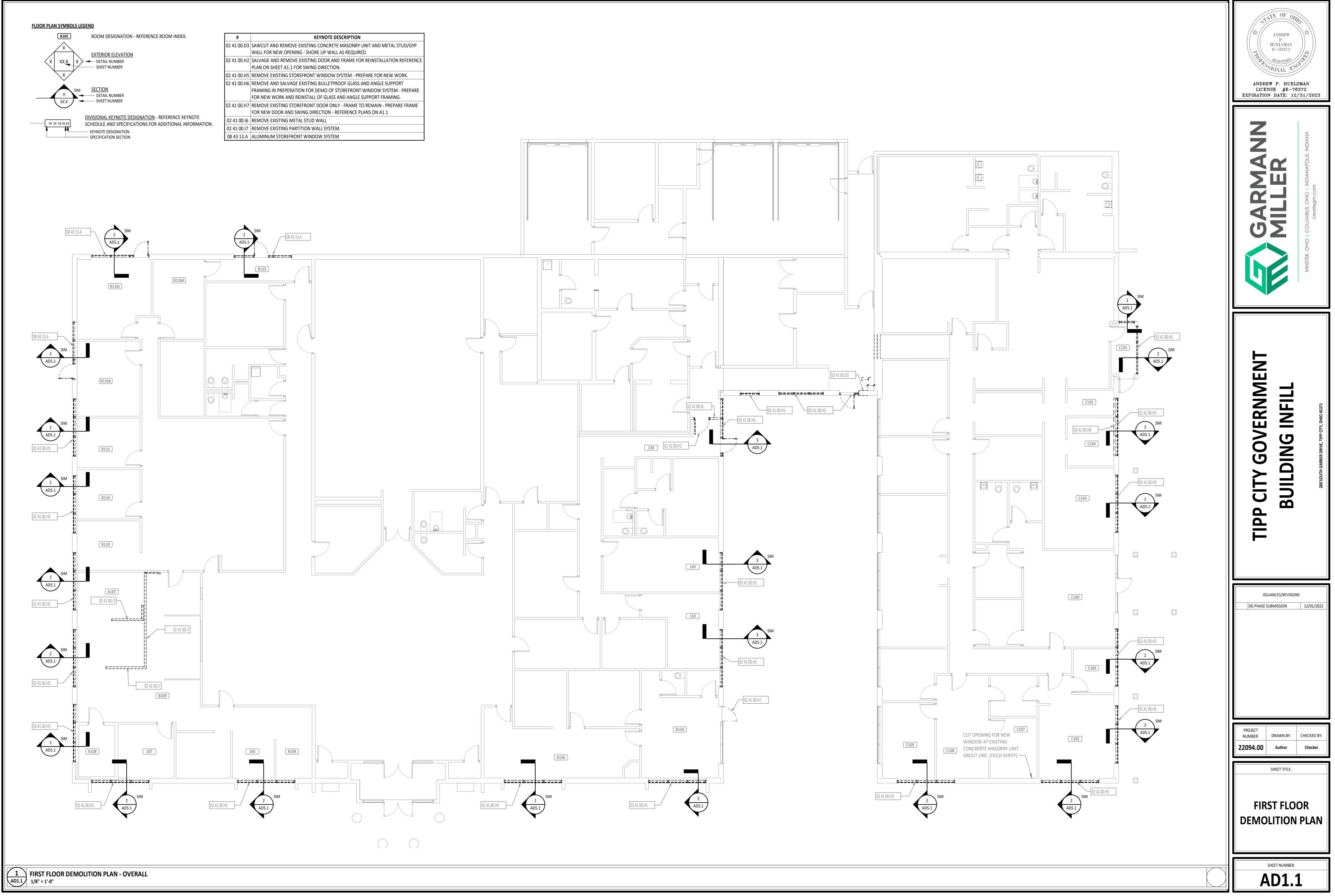
PSI - POUNDS PER SQUARE INCH

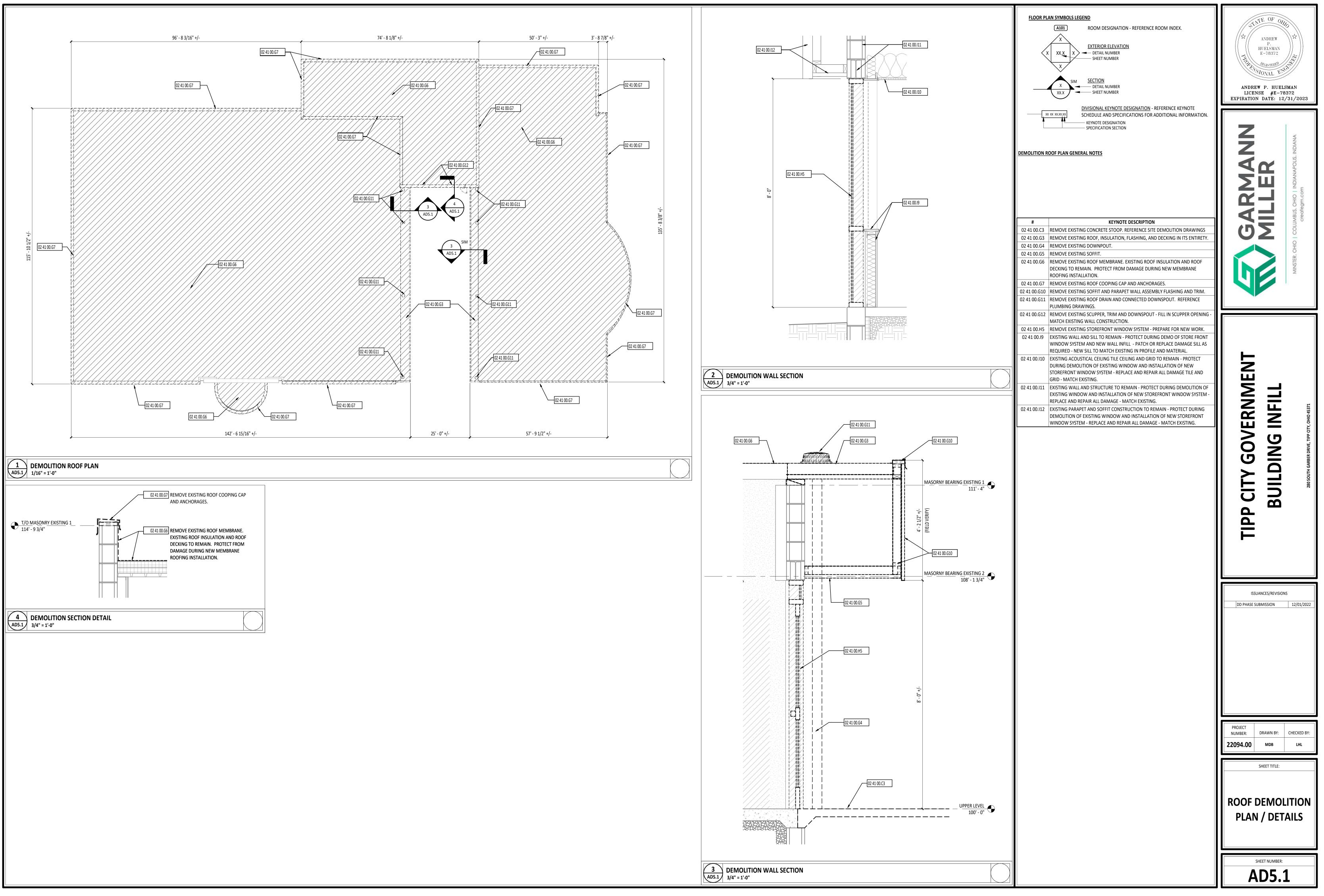
#### GENERAL

- Α В С
- D
- Е
- F G
- Н
- _____
- J
- К L
- Μ
- Ν
- 0
- Р Q
- R
- S
- Т U
- V
- W
- Х
- Y
- AA
- BB CC
- DD
- EE FF
- GG
- HH Ш
- IJ

REFERENCE SPECIFICATIONS AND DRAWINGS FOR FINISH FIRST FLOOR ELEVATION INDICATED FOR TH DATUM. ELEVATIONS OF EXISTING ELEMENTS REL SHALL NOTIFY THE CONSTRUCTION MANAGER IMI THE STRUCTURE IS DESIGNED TO BE SELF-SUPPOR THE CONSTRUCTION PROCEDURES AND SEQUENC CONSTRUCTION. THIS INCLUDES SHORING, SHEAT THE SITE AND ALL BUILDING ROOFS. CONTRACTOR(S) SHALL MAINTAIN ALL LEGAL EGR	HE NEW WORK IS 100'-0". REFERENCE SITE DRAWINGS ATIVE TO 100'-0" SHALL BE FIELD VERIFIED BY THE CON MEDIATELY OF ANY DISCREPANCIES BEFORE PROCEEDIN TING AND STABLE AFTER THE WORK IS COMPLETE. CON LES AND ENSURE THE INTEGRITY OF THE WORK AND ITS FHING, TEMPORARY ENCLOSURES AND TEMPORARY POS ESS FROM THE WORK TO COMPLY WITH APPLICABLE BU	FOR RELATIONSHIP TO U.S.G.S. TRACTOR(S). CONTRACTOR(S) NG WITH THE WORK. NTRACTOR(S) SHALL DETERMINE COMPONENT PARTS DURING SITIVE WATER DRAINAGE FROM JILDING CODES, SAFETY		ANDREW P. HUELSMAN E-78372 STONAL ENTRY ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023
THE PUBLIC FOR NORMAL ACTIVITIES AND EMERGI TEMPORARY WALLS, DOORS, HARDWARE PARTITI EGRESS. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS A WORK, BY THE CONTRACTOR(S), CONSTITUTES AC CONSTRUCTION MANAGER IMMEDIATELY OF ANY ALL CIP CONCRETE CURBS AND EQUIPMENT PADS ASSOCIATED WORK. DIFFERENT FLOOR FINISH MATERIALS SHALL MEET DETAILED OTHERWISE. FURNISH AND INSTALL FLOOR DRAINS 1/2" BELOW DRAWINGS FOR EXACT LOCATIONS. FURNISH AND INSTALL CASING BEAD AT ALL LOCA NOTED OR DETAILED OTHERWISE. ALL DIMENSIONS ARE MEASURED TO THE FACE OF FILL IN ALL MASONRY VOIDS WITH MORTAR OR GI ALL CMU'S THAT DO NOT LAY OUT IN FULL OR HAL 4" EXPOSED TO VIEW. ALL CMU CORNERS, HORIZONTAL OR VERTICAL, SF BOTH EXTERIOR AND INTERIOR CMU WORK SHALL SINGLE WYTHE WALLS ARE INDICATED IN ACTUAL IF FRAME WIDTH DOES NOT MATCH WALL WIDTH PASSAGE SIDE OF THE WALL UNLESS NOTED OR DI ROOM SHALL BE FURNISHED AND INSTALLED TO THE FRAME LOCATIONS RELATIVE TO THE THE CENTERLINE OF THE WALL CROSS SECTION.	ERNING LOCAL BUILDING CODE AUTHORITIES FOR THE F GENCY EGRESS FROM THE WORK. THE CONTRACTOR(S) ONS, SCREENS, ENCLOSURES AND PEDESTRIAN PROTEC AND CLEARANCES BEFORE PROCEEDING WITH THE WOR CCEPTANCE OF THE EXISTING CONDITIONS. CONTRACTO 'DISCREPANCIES BEFORE PROCEEDING WITH THE WORF SHALL BE FURNISHED AND INSTALLED BY THE CONTRACT 'UNDER THE CENTERLINE OF THE DOOR IN THE CLOSED V FLOOR PERIMETER. SLOPE FINISH FLOOR TO FLOOR D TIONS WHERE GYPSUM WALLBOARD ABUTS DISSIMILA F MASONRY OR THE FACE OF STUD UNLESS NOTED OR D ROUT WHERE MASONRY ANCHORS OCCUR. LF BLOCK LENGTHS SHALL BE BALANCED SUCH THAT PIE HALL BE BULLNOSE UNLESS NOTED OR DETAILED OTHER L BE RUNNING BOND UNLESS NOTED OR DETAILED OTHER L BE RUNNING BOND UNLESS NOTED OR DETAILED OTHER L DOOR AND BORROWED LITE FRAMES SHALL BE INSTAL ETAILED OTHERWISE. NON-CORRIDOR OR NON-PASSAG 'HE SIDE OF THE WALL FACING THE LARGER ROOM. REF E WALL ONLY. DEDICATED WINDOW FRAMES SHALL BE STALLED IN ACCORDANCE WITH THE LOCAL BUILDING CO	SHALL FURNISH AND INSTALL ANY TIONS TO MAINTAIN SUCH LEGAL AK. COMMENCEMENT OF THE DR(S) SHALL NOTIFY THE K. CTOR RESPONSIBLE FOR THE D POSITION UNLESS NOTED OR DRAINS. REFERENCE PLUMBING R MATERIALS. TYPICAL UNLESS DETAILED OTHERWISE. ECES SHALL HAVE NO LESS THAN RWISE. ERWISE. E. LLED TO THE CORRIDOR OR GE FRAMES FROM ROOM TO FERENCE DOOR AND WINDOW FURNISHED AND INSTALLED TO		<image/>
JURISDICTION OVER THE WORK, AS WELL AS ALL A REFERENCE FINISH MATERIAL SCHEDULE FOR ALL PROCEEDING WITH THE WORK. THE CONTRACTOR(S) SHALL FURNISH AND INSTAL ACCESSORIES, HANDRAILS, CASEWORK, ETC. COO MANUFACTURERS RECOMMENDATIONS. SUCH W MINIMUM 1/2" DIAMETER EXPANSION BOLTS AT A REFERENCE EQUIPMENT PLANS FOR EQUIPMENT I REFERENCE FLOOR PLANS FOR FIRE EXTINGUISHEF DRAWINGS FOR MOUNTING HEIGHTS. THE ELECTRICAL CONTRACTOR SHALL FURNISH AN BY THE GENERAL TRADES CONTRACTOR, AS OPPO TRADES CONTRACTOR SHALL COORDINATE SUCH I THOSE LOCATIONS BEFORE PROCEEDING WITH TH THE GENERAL TRADES CONTRACTOR IS REQUIRED SERVICE, PLUMBING, MECHANICAL, ELECTRICAL A AND PATCHING INCLUDING CUTTING FLOOR AND/ EXISTING ADJACENT SURFACE TO ACCEPT NEW FIN PERFORMED. THIS INCLUDES ALL AREAS NOT SPER REFERENCE CODE PLANS, FLOOR PLANS, REFLECTE REFERENCE INTERIOR ELEVATIONS FOR LOCATION OPENINGS IN ROOF FOR ROOFTOP EQUIPMENT SH COORDINATE LOCATIONS OF SUCH OPENINGS WIT ASSOCIATE CONTRACTOR AND INSTALLED BY THE REFERENCE PLUMBING DRAWINGS FOR ALL VENT CONTRACTOR(S). REFERENCE PLUMBING DRAWINGS FOR ALL VENT CONTRACTOR(S). THE CONTRACTOR SHALL PROTECT ALL ROOF DRA CONSTRUCTION. THE CONTRACTOR SHALL PROJECT COMPLETION ALL TYPICAL ROOFING DETAILS ARE SHOWN FOR CO OF THE ROOFING MANUFACTURER. ALL DETAIL M INSTALL ALL FLASHING AND APPROPRIATE CRICKE ALL TOP OF STEEL AND TOP OF BOND BEAM ELEVA	TIPP CITY GOVERNMENT BUILDING INFIL			
ON THE STRUCTURAL DRAWINGS AND NOTIFY THE CONTRACTOR TO COORDINATE AND MAINTAIN M SIGNAGE. IN THE EVENT OF INCONSISTENCIES WITHIN OR BE QUALITY OR GREATER QUALITY OF WORK AND SH BASIC DEFINITIONS: 'FURNISH' SHALL MEAN TO P	IINIMUM 1'-0" WIDE BY 6'-0" HIGH SPACE ON LATCH SIE	DE OF ALL DOORS FOR OWNER'S DR SHALL PROVIDE THE BETTER FOR INSTALLATION; 'INSTALL'		ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023
MATERIAL SYMBOLS USED ON THE CONTRACT	DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOS	SE LISTED BELOW	STUD WALL (PLAN)	
	CONCRETE MASONRY UNIT (PLAN AND SECTION)	SPRAY APPLIED INSULATION	AREA OF REVISION	PROJECT NUMBER: DRAWN BY: CHECKED BY: 22094.00 MDB LKL
GRAVEL, STONE OR DRAINAGE FILL SAND, GROUT, MORTAR OR	RIGID, PERIMETER, OR ROOF INSULATION	WOOD - DIMENSIONAL (NOMINAL) WOOD - DIMENSIONAL (RIPPED)		SHEET TITLE:
MORTAR OR PLASTER CONCRETE	SHEATHING         WOOD (FINISHED)         SPLIT-FACE CONCRETE         MASONRY UNIT	BATT INSULATION OR SOUND ATTENUATION		GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
RAWING AND MATERIAL SYMBOLS L	EGEND			SHEET NUMBER: A0.1



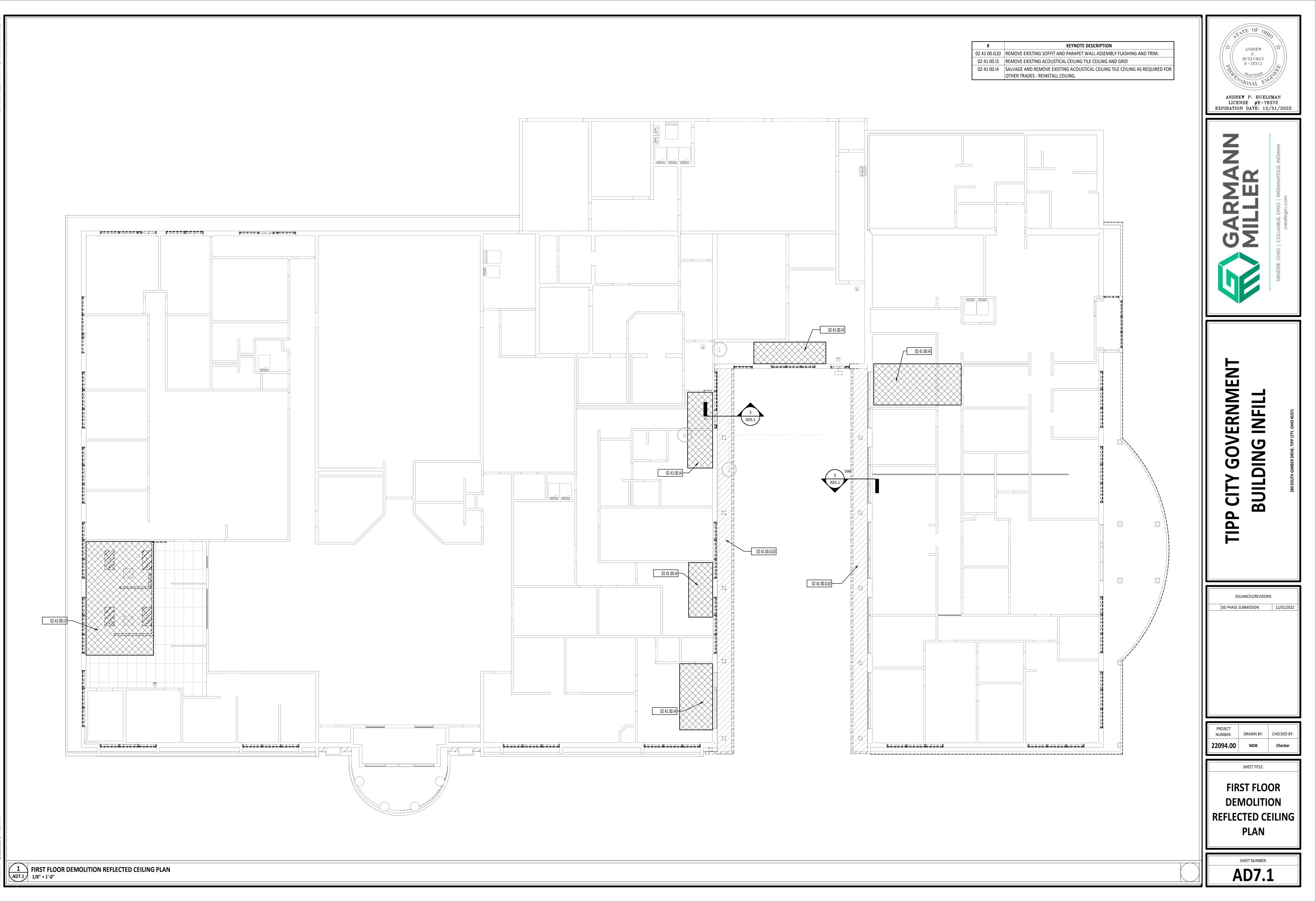


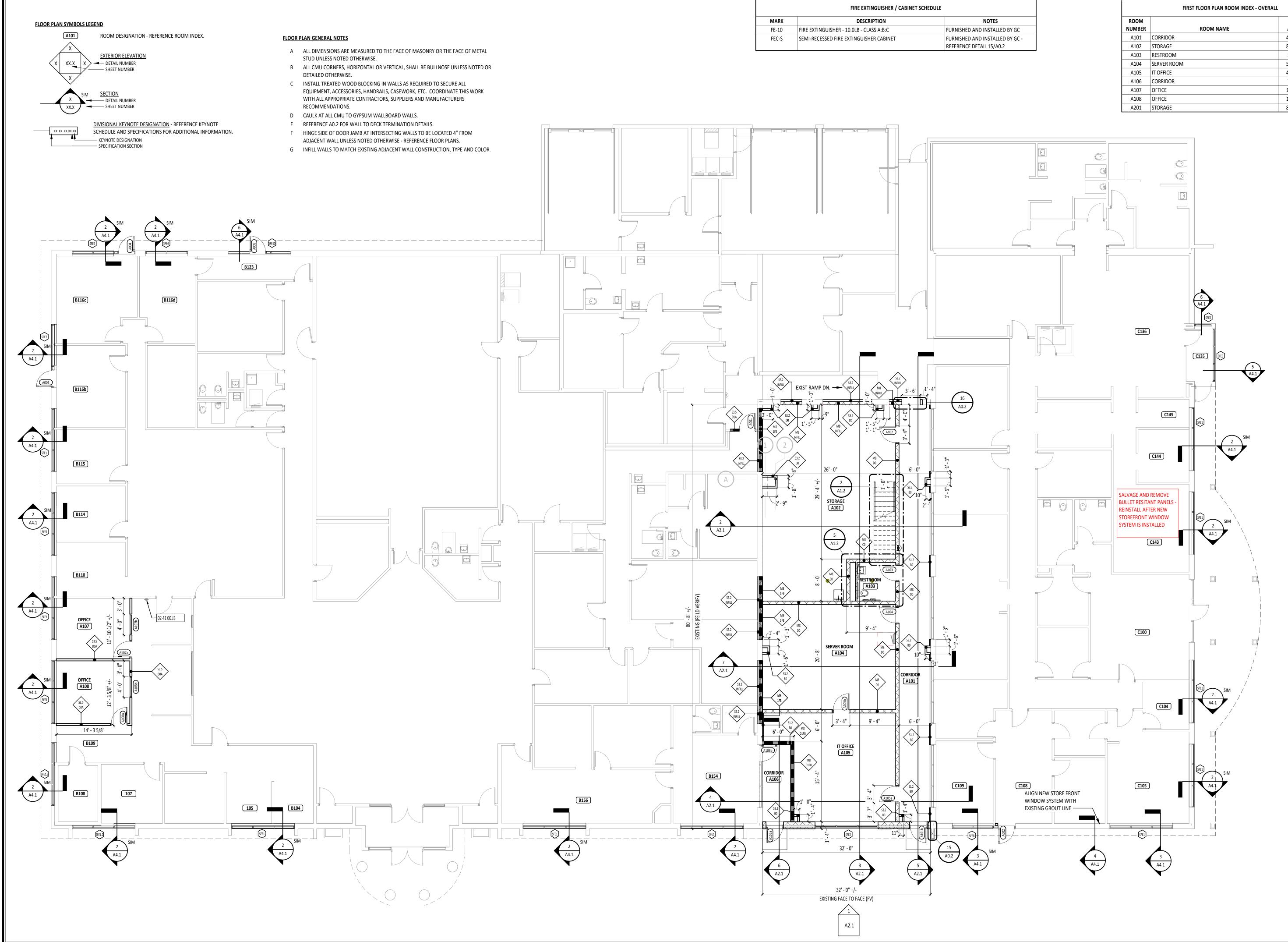


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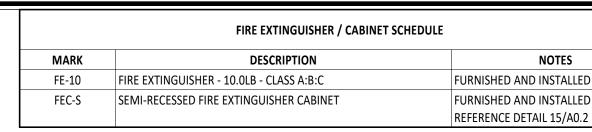
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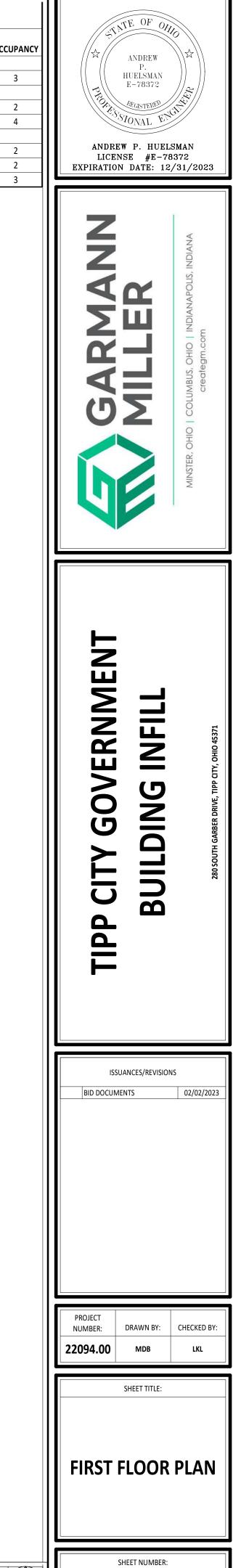




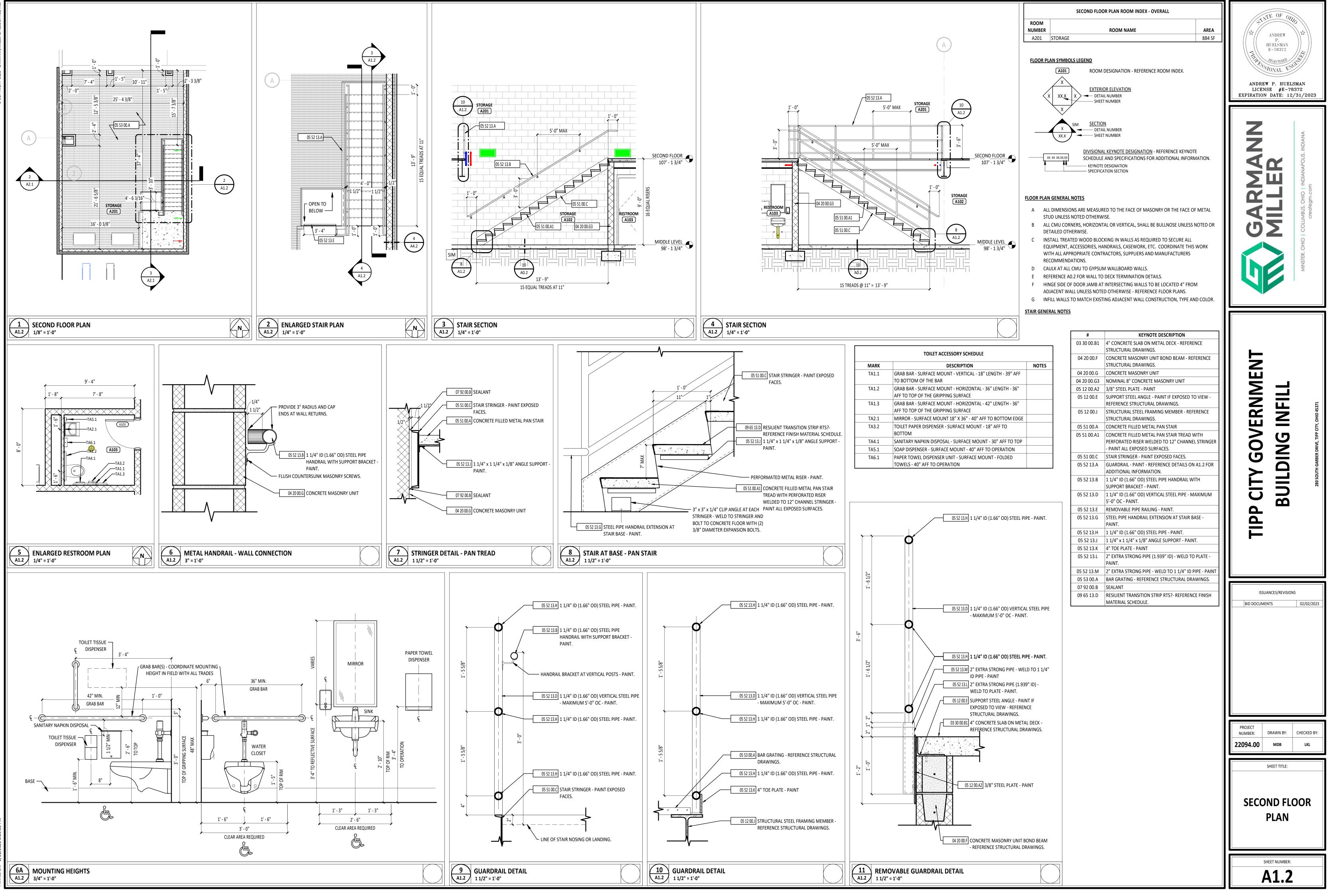
1 A1.1 FIRST FLOOR PLAN 1/8" = 1'-0"



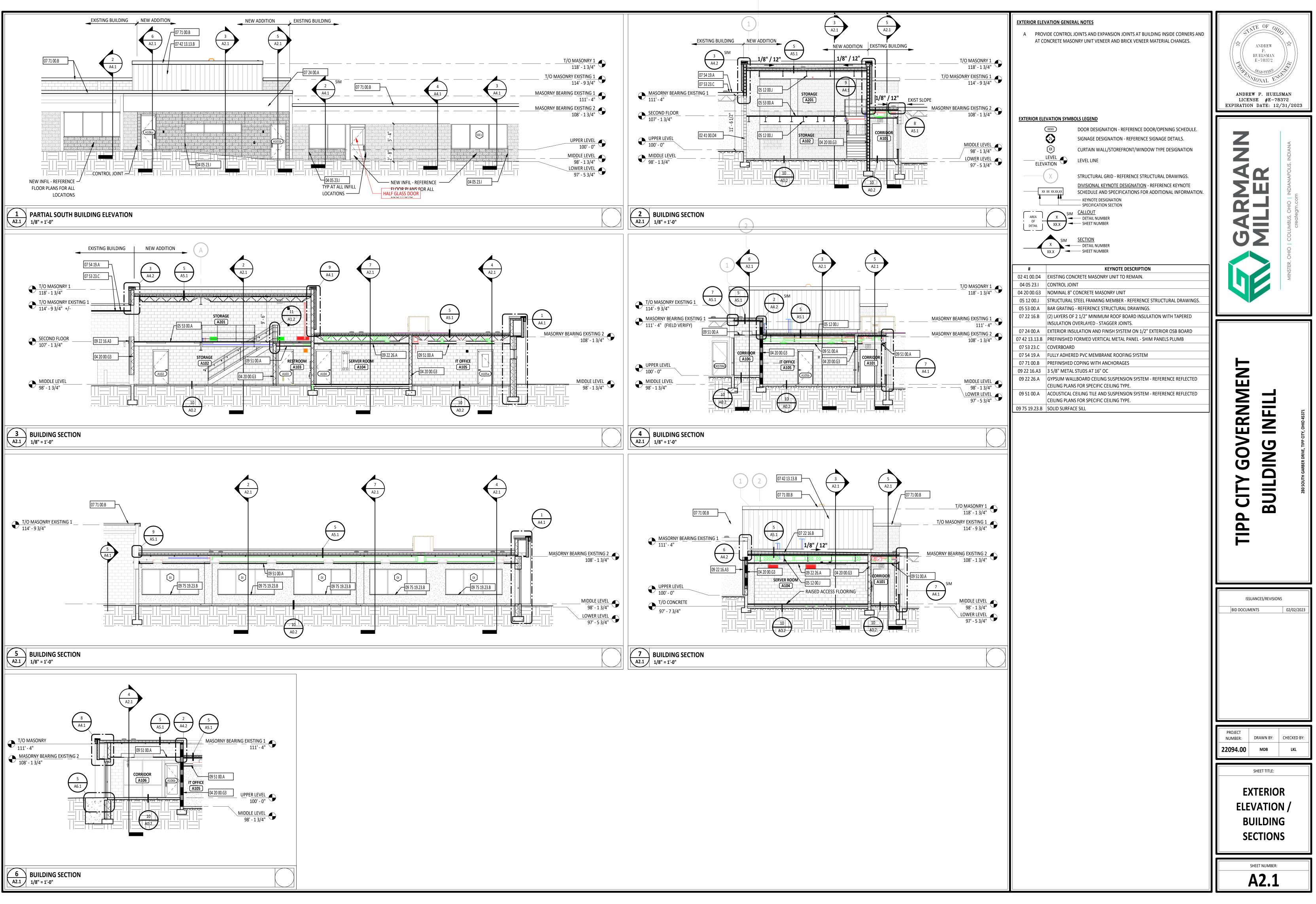
	FIRST FLOOR PLAN ROOM INDEX - OVEF	RALL	
ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY
A101	CORRIDOR	456 SF	
A102	STORAGE	860 SF	3
A103	RESTROOM	54 SF	
A104	SERVER ROOM	506 SF	2
A105	IT OFFICE	432 SF	4
A106	CORRIDOR	79 SF	
A107	OFFICE	161 SF	2
A108	OFFICE	166 SF	2
A201	STORAGE	884 SF	3



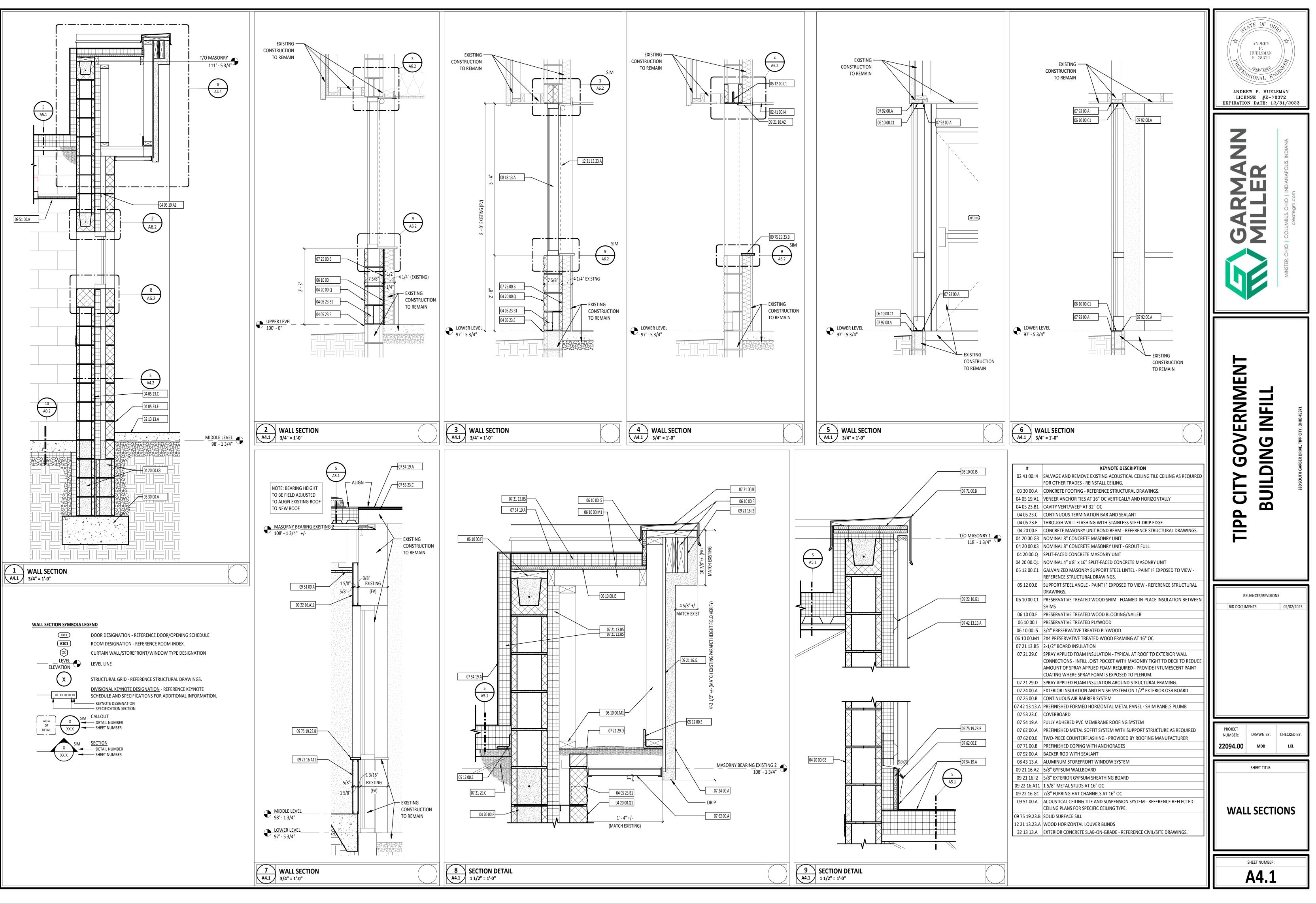
A1.1



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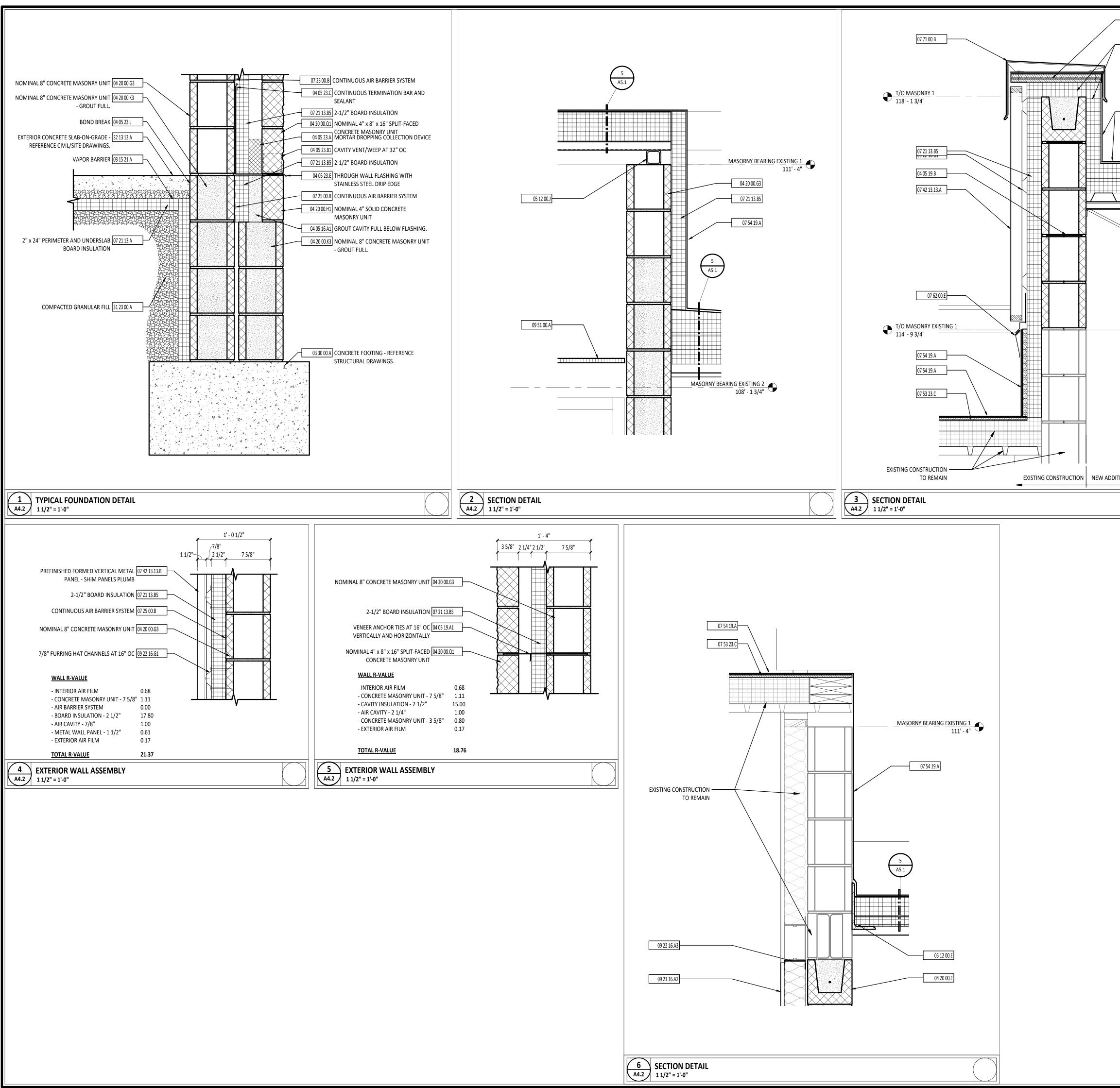




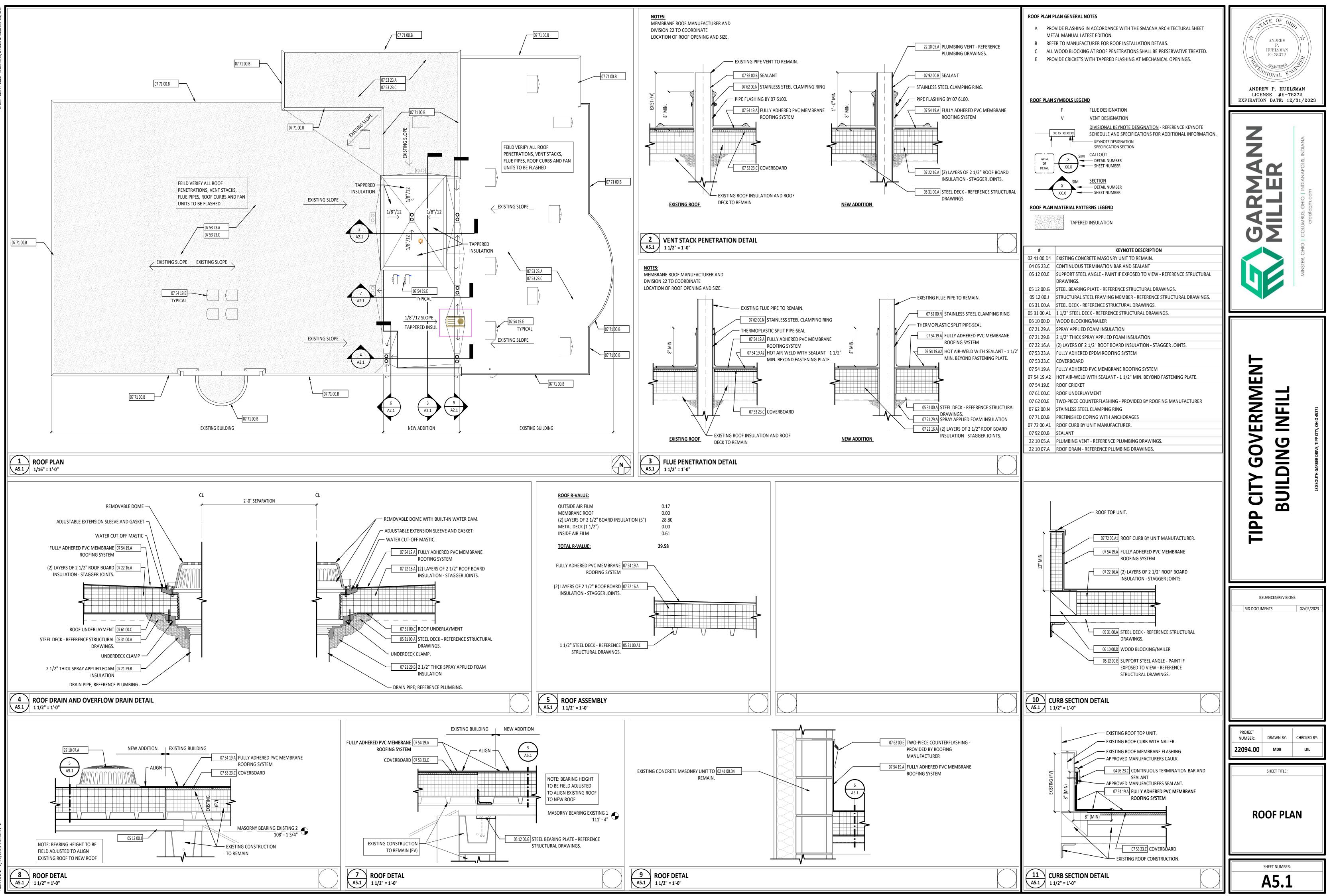


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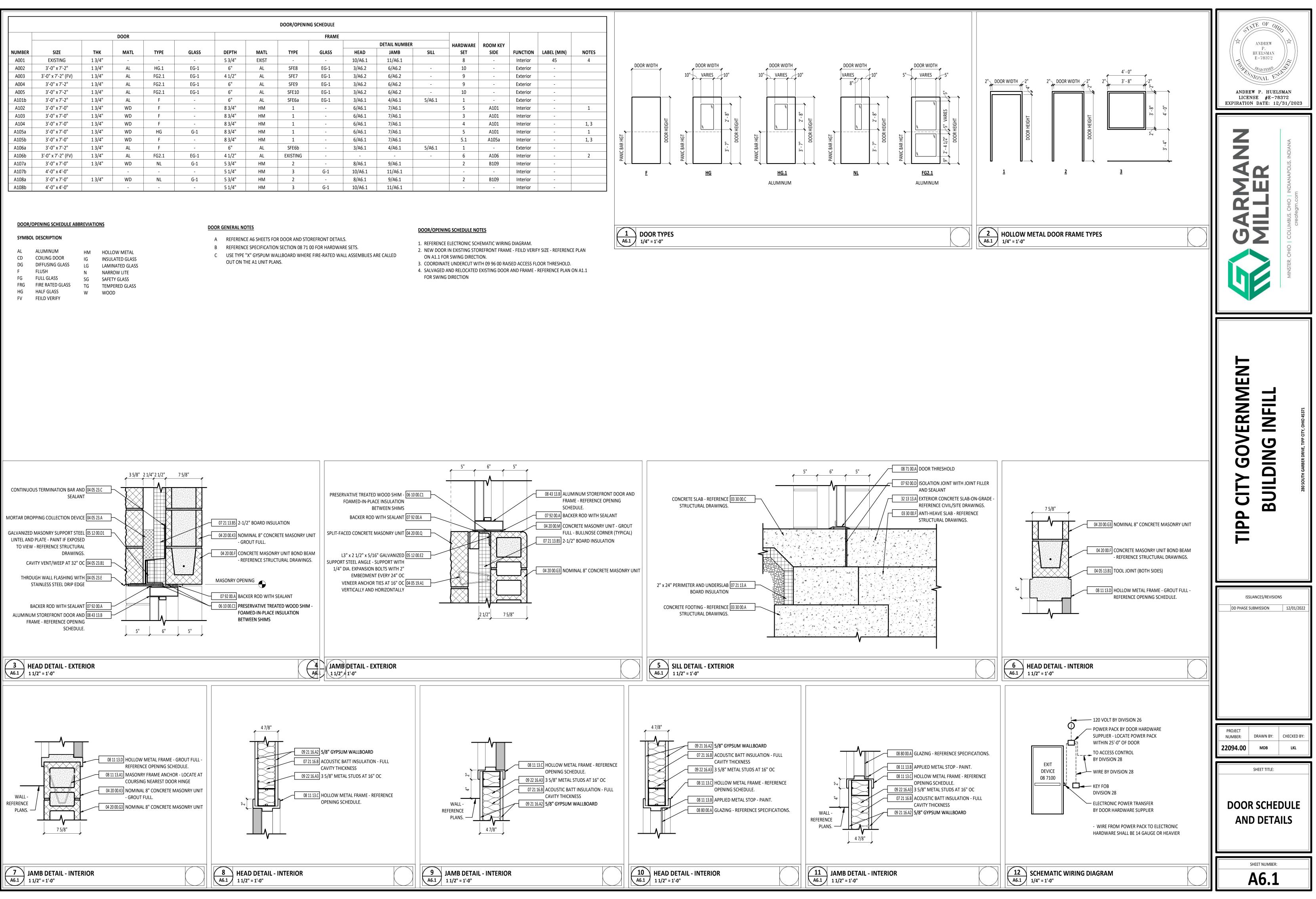
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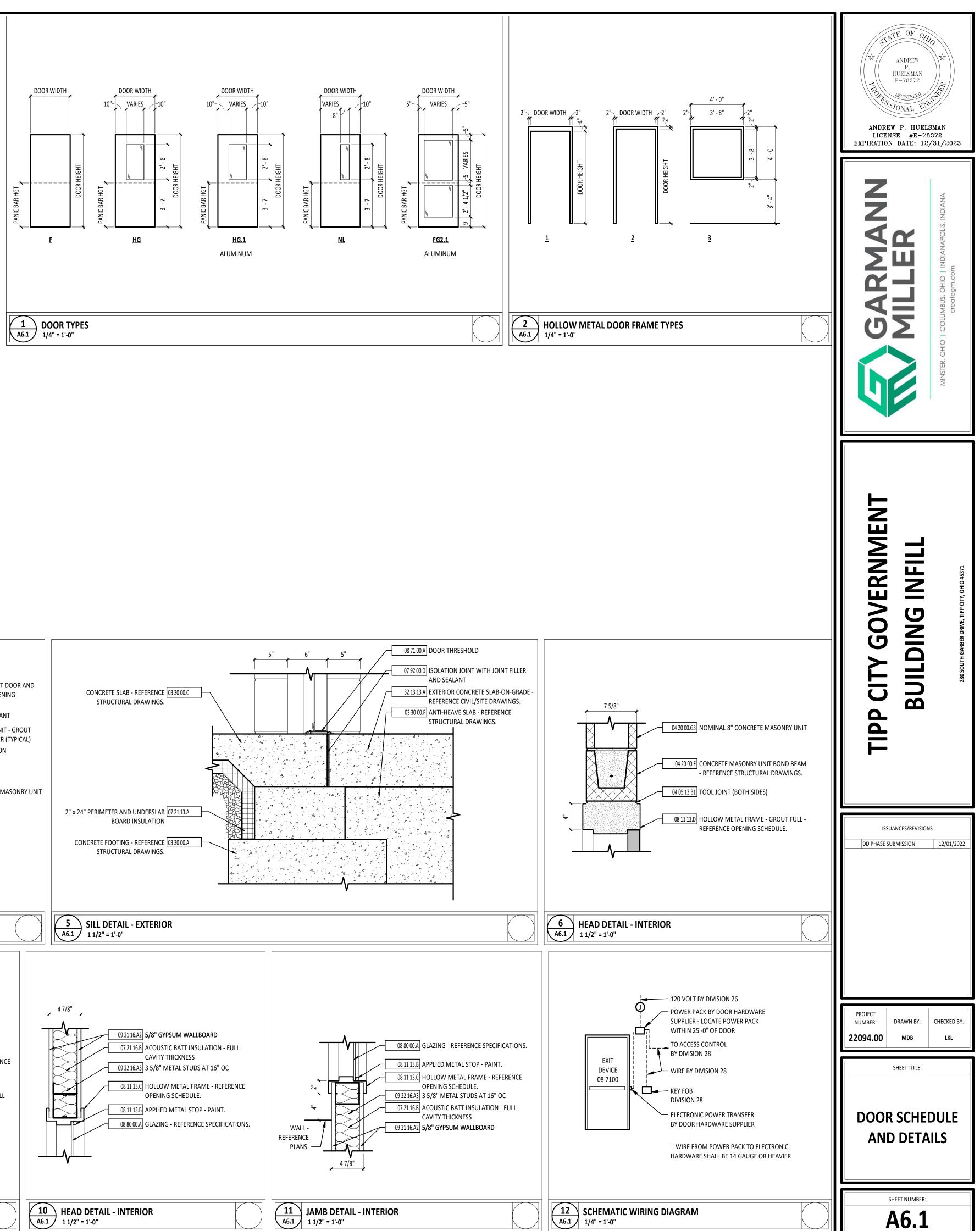
	06 10 00.15		
			NTE OF OIL
	07 21 13 B5		
	07 21 13.05	04 05 19.A1 VENEER ANCHOR TIES AT 16" OC VERTICALLY AND HORIZONTALLY	$\left  \left( \begin{array}{c} P. \end{array} \right) \right $
			SIONAL ENGINE
		04 05 23.E THROUGH WALL FLASHING WITH STAINLESS STEEL DRIP EDGE	
			LICENSE #E-78372
		04 20 00.K3 NOMINAL 8" CONCRETE MASONRY UNIT - GROUT FULL.	
			Louis.
		07 21 13.B5 2-1/2" BOARD INSULATION	
		07 54 19.A FULLY ADHERED PVC MEMBRANE ROOFING SYSTEM	
	7		
			OH
	NEK A	09 22 16.G1 7/8" FURRING HAT CHANNELS AT 16" OC	TER, O
		CEILING PLANS FOR SPECIFIC CEILING TYPE.	I I I I I I I I I I I I I I I I I I I
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SHEET NUMBER:			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023
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SHEET NUMBER:			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         PROJECT       02/02/2023         NUMBER:       DRAWN BY:       CHECKED BY:         22094.00       MDB       LKL
SHEET NUMBER:			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         PROJECT       02/02/2023         NUMBER:       DRAWN BY:       CHECKED BY:         22094.00       MDB       LKL
			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         BID DOCUMENTS       02/02/2023         PROJECT       02/02/2023         NUMBER:       DRAWN BY:       CHECKED BY:         22094.00       MDB       LKL         SHEET TITLE:
			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         BID DOCUMENTS       02/02/2023         PROJECT       02/02/2023         NUMBER:       DRAWN BY:       CHECKED BY:         22094.00       MDB       LKL         SHEET TITLE:
			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         BID DOCUMENTS       02/02/2023         PROJECT       02/02/2023         NUMBER:       DRAWN BY:       CHECKED BY:         22094.00       MDB       LKL         SHEET TITLE:
			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         BID DOCUMENTS       02/02/2023         PROJECT       02/02/2023         NUMBER:       DRAWN BY:       CHECKED BY:         22094.00       MDB       LKL         SHEET TITLE:
			Issuances/revisions         BID DOCUMENTS       02/02/2023         BID DOCUMENTS       02/02/2023         Image: Drawin By: Checked By: Drawin By: Drawin By: Checked By: Drawin By: Draw
			ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         PROJECT       02/02/2023         Image: Drawn By:       CHECKED BY:         22094.00       MDB         Image: SHEET TITLE:         SECTION DETAILS         SHEET NUMBER:         SHEET NUMBER:
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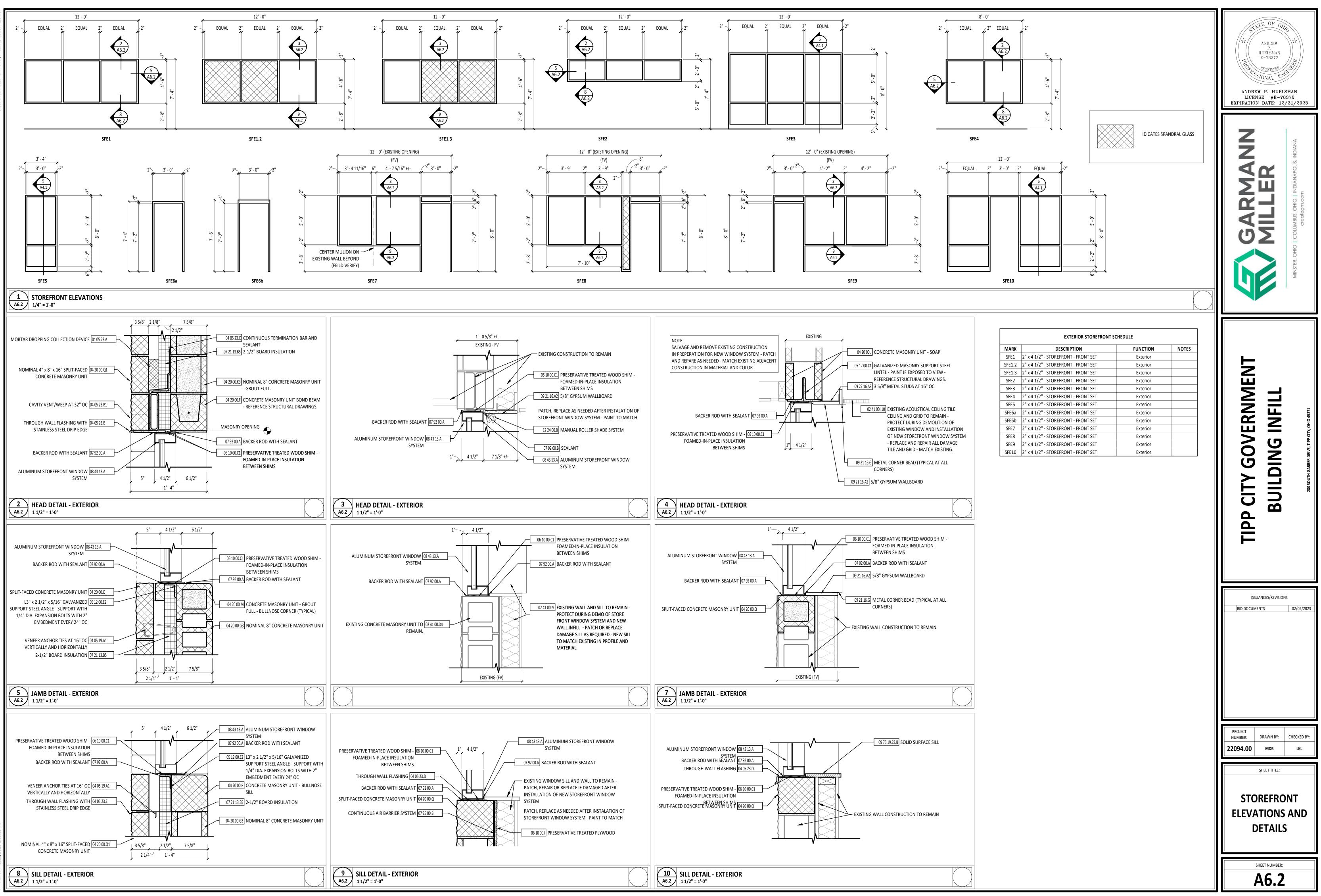
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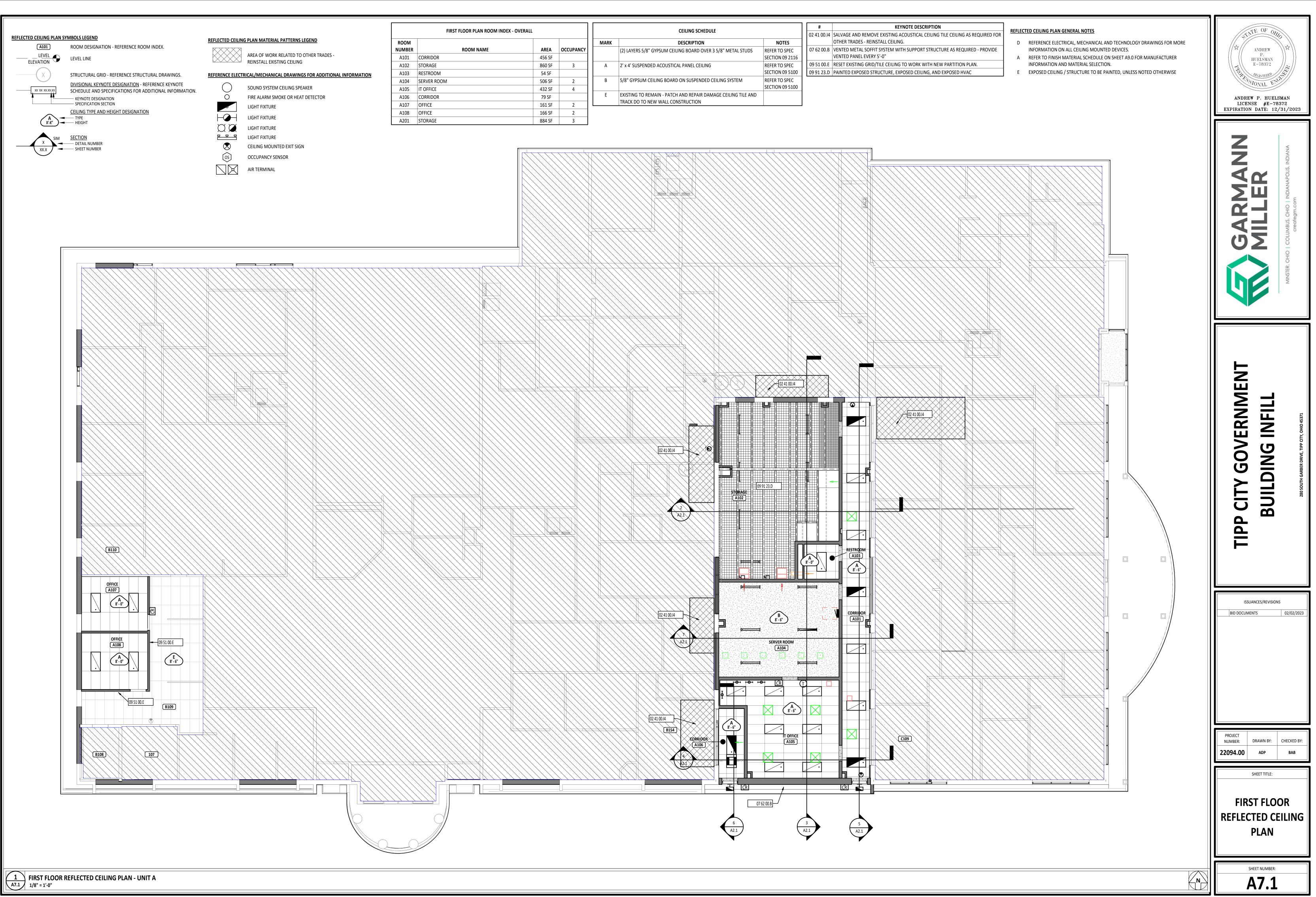
	HARDWARE	ROOM KEY			
ILL	SET	SIDE	FUNCTION	LABEL (MIN)	NOTES
	8	-	Interior	45	4
-	10	-	Exterior	-	
-	9	-	Exterior	-	
-	9	-	Exterior	-	
-	10	-	Exterior	-	
46.1	1	-	Exterior	-	
	5	A101	Interior	-	1
	3	A101	Interior	-	
	4	A101	Interior	-	1, 3
	5	A101	Interior	-	1
	5.1	A105a	Interior	-	1, 3
46.1	1	-	Exterior	-	
-	6	A106	Interior	-	2
	2	B109	Interior	-	
	-	-	Interior	-	
	2	B109	Interior	-	
	-	-	Interior	-	





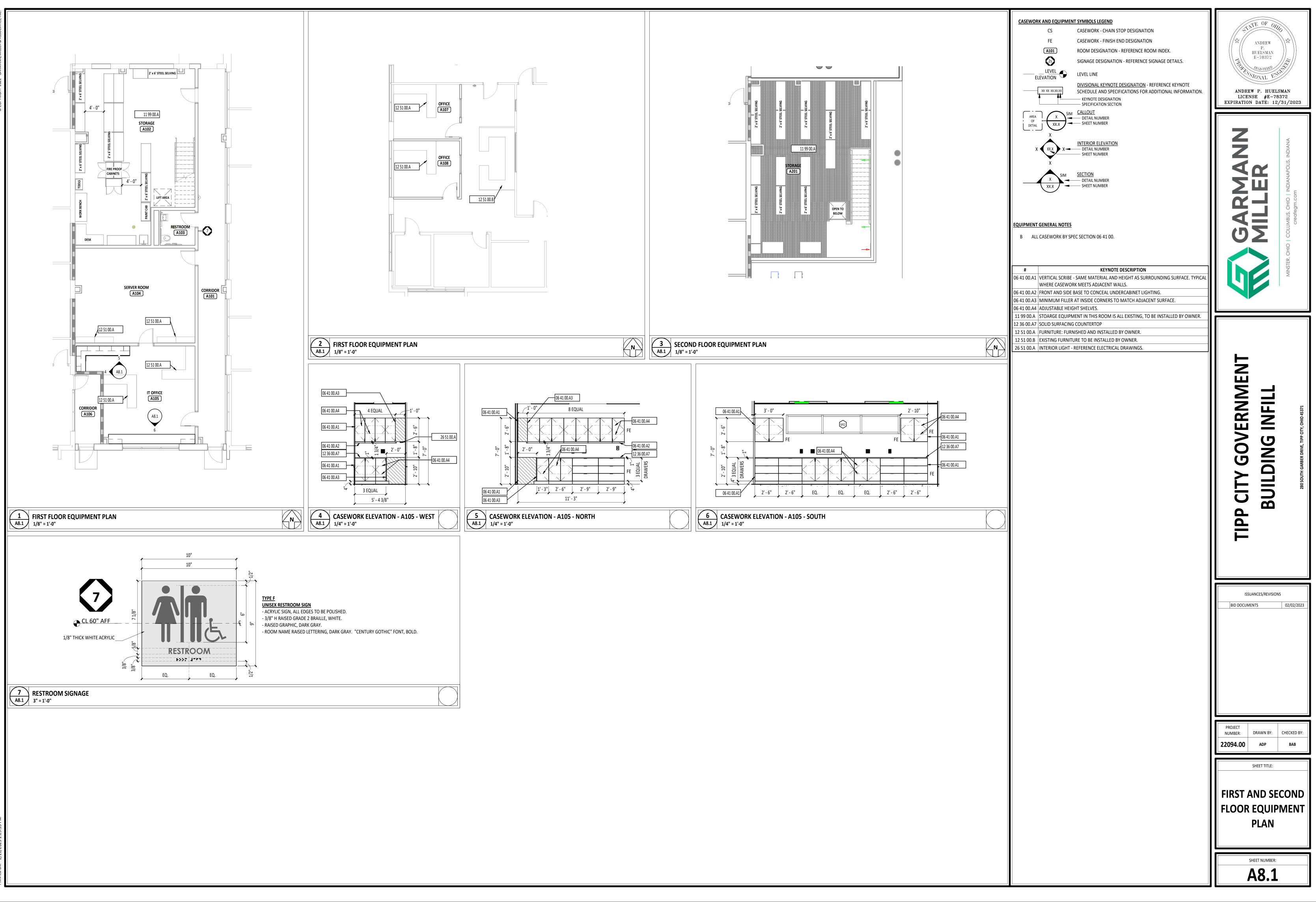






FIRST FLOOR PLAN ROOM INDEX -	OVERALL	
ROOM NAME	AREA	OCCUPANCY
DOR	456 SF	
AGE	860 SF	3
ООМ	54 SF	
R ROOM	506 SF	2
ICE	432 SF	4
DOR	79 SF	
E	161 SF	2
E	166 SF	2
AGE	884 SF	3

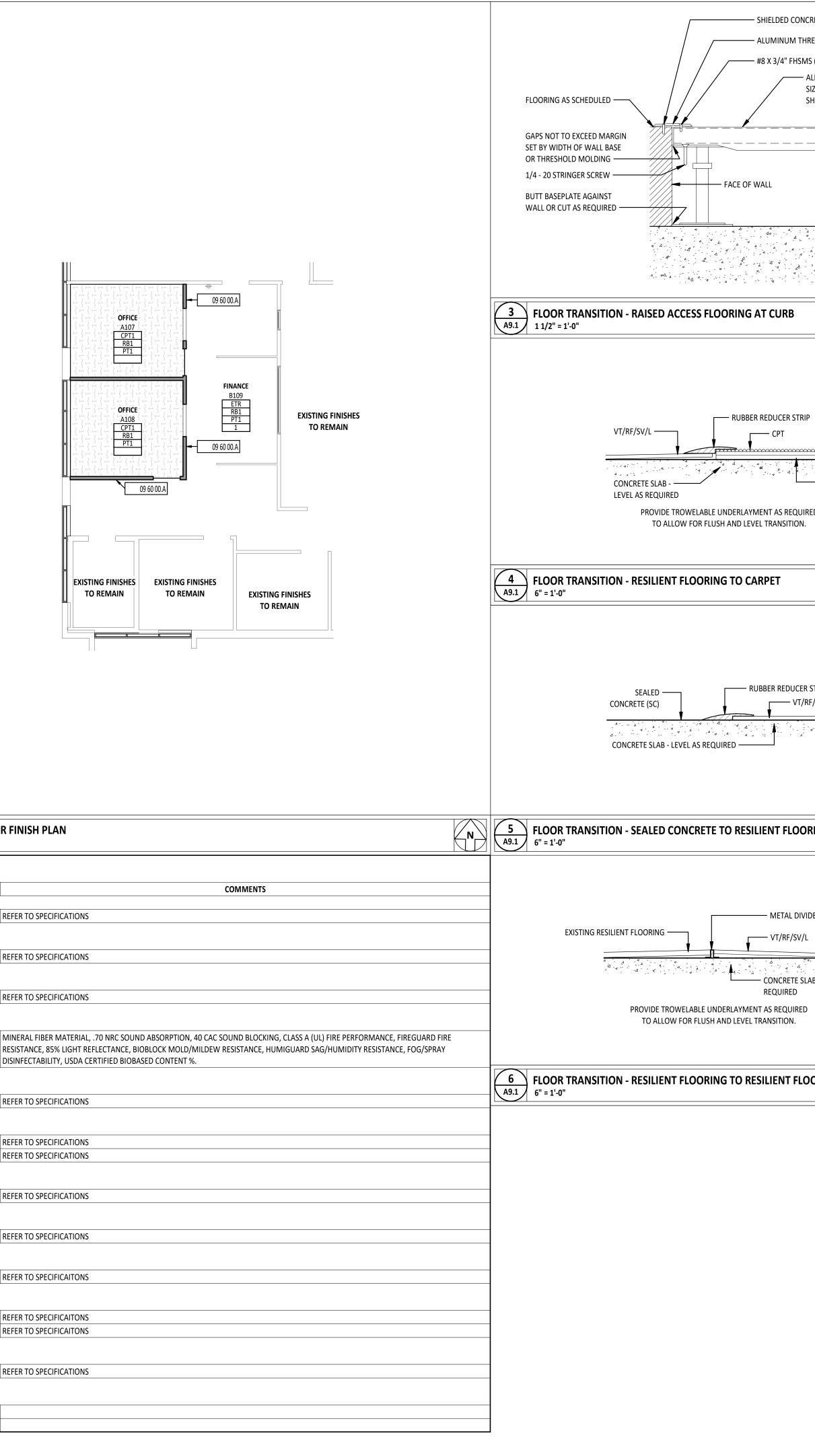
	CEILING SCHEDULE		#	KEYNOTE
	CEILING SCHEDOLE		02 41 00.14	SALVAGE AND REMOVE EXISTING ACOUS
MARK	DESCRIPTION	NOTES		OTHER TRADES - REINSTALL CEILING.
	(2) LAYERS 5/8" GYPSUM CEILING BOARD OVER 3 5/8" METAL STUDS	REFER TO SPEC	07 62 00.B	VENTED METAL SOFFIT SYSTEM WITH SUF
		SECTION 09 2116		VENTED PANEL EVERY 5'-0"
А	2' x 4' SUSPENDED ACOUSTICAL PANEL CEILING	REFER TO SPEC	09 51 00.E	RESET EXISTING GRID/TILE CEILING TO W
		SECTION 09 5100	09 91 23.D	PAINTED EXPOSED STRUCTURE, EXPOSED
В	5/8" GYPSUM CEILING BOARD ON SUSPENDED CEILING SYSTEM	REFER TO SPEC		
		SECTION 09 5100		
E	EXISTING TO REMAIN - PATCH AND REPAIR DAMAGE CEILING TILE AND			
	TRACK DO TO NEW WALL CONSTRUCTION			



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Image: strain product stran product strain product strain product strain product	
NAME         MANUFACTURER         STYLE         NUMBER         COLOR           03 35 11 CONCRETE FINISHING - SEALED CONCRETE         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .	FIRST FLOOF 1/8" = 1'-0"
03 35 11 CONCRETE FINISHING - SEALED CONCRETE         SC       REFER TO SPECIFICATIONS         SC       REFER TO SPECIFICATIONS         06 41 00 - CASEWORK HARDWARE         CH1       AMEROCK         EDGE PULLS       BP36575PN         POLISHED NICKLE       3 3/4"         09 51 00 ACOUSTICAL CEILINGS - SUSPENSION SYSTEM         TYPE A       ARMSTRONG         SQUARE LAY-IN       WHITE         15/16"         09 51 00 ACOUSTICAL CEILINGS - TILE         TYPE A       ARMSTRONG         SCHOOL ZONE FINE FISSURED         VTIPE A       ARMSTRONG         SCHOOL ZONE FINE FISSURED       WHITE         15/16"       96 55 00 RESILIENT FLOORING - VINVL TILE         VT1       TARKETT       IQ EMINENT         17       TO BE SELECTED FROM MANUFACTURERS STANDARDS       12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       12" X 12"         19 65 13 RESILIENT FLOORING - RUBBER BASE       IDHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       4"         RB2       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       6" <t< th=""><th>SIZE</th></t<>	SIZE
CH1       AMEROCK       EDGE PULLS       BP36575PN       POLISHED NICKLE       3 3/4"         09 51 00 ACOUSTICAL CEILINGS - SUSPENSION SYSTEM       SQUARE LAY-IN       WHITE       15/16"         09 51 00 ACOUSTICAL CEILINGS - TILE       TYPE A       ARMSTRONG       SCHOOL ZONE FINE FISSURED       WHITE       24" X 48"         09 51 00 ACOUSTICAL CEILINGS - TILE       SCHOOL ZONE FINE FISSURED       WHITE       24" X 48"         09 65 00 RESILIENT FLOORING - VINYL TILE       SCHOOL ZONE FINE FISSURED       WHITE       24" X 48"         09 65 00 RESILIENT FLOORING - VINYL TILE       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       4"         09 65 13 RESILIENT FLOORING - RUBBER BASE       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       4"         09 68 13 CARPETING - CARPET TILE       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       6"         09 68 13 CARPETING - CARPET TILE       OP 68 13 CARPETING - CARPET TILE       OP 69 00 - RAISED ACCESS FLOORING       24" X 24"         09 69 00 - RAISED ACCESS FLOORING       OP 100 - RAISED ACCESS FLOORING       PRIMARY TILE       ST123	
09 51 00 ACOUSTICAL CEILINGS - SUSPENSION SYSTEM         TYPE A       ARMSTRONG       SQUARE LAY-IN       WHITE       15/16"         09 51 00 ACOUSTICAL CEILINGS - TILE       TYPE A       ARMSTRONG       SCHOOL ZONE FINE FISSURED       WHITE       24" X 48"         09 55 00 RESILIENT FLOORING - VINYL TILE       SCHOOL ZONE FINE FISSURED       WHITE       24" X 48"         09 65 00 RESILIENT FLOORING - VINYL TILE       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS 12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS 12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE       IOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS 4"         RB1       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS 6"         09 68 13 CARPETING - CARPET TILE	
TYPE A       ARMSTRONG       SQUARE LAY-IN       WHITE       15/16"         09 51 00 ACOUSTICAL CEILINGS - TILE        24" X 48"         TYPE A       ARMSTRONG       SCHOOL ZONE FINE FISSURED       WHITE       24" X 48"         09 65 00 RESILIENT FLOORING - VINYL TILE         24" X 48"         VT1       TARKETT       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE          10HNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       4"         RB1       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       6"         09 68 13 CARPETING - CARPET TILE       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       6"         09 68 13 CARPETING - CARPET TILE       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARD       24" X 24"         09 69 00 - RAISED ACCESS FLOORING	F
TYPE A       ARMSTRONG       SCHOOL ZONE FINE FISSURED       WHITE       24" X 48"         09 65 00 RESILIENT FLOORING - VINYL TILE       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE       IDHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       4"         RB1       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       6"         09 68 13 CARPETING - CARPET TILE	I
VT1       TARKETT       IQ EMINENT       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       12" X 12"         09 65 13 RESILIENT FLOORING - RUBBER BASE         RB1       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       4"         RB2       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       6"         09 68 13 CARPETING - CARPET TILE	3/4" [ [
RB1       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       4"         RB2       TARKETT       JOHNSONITE WALL BASE, BASEWORKS       -       TO BE SELECTED FROM MANUFACTURERS STANDARDS       6"         09 68 13 CARPETING - CARPET TILE	F
CPT1       SHAW CONTRACT       PRIMARY TILE       5T123       TO BE SELECTED FROM MANUFACTURERS STANDARD       24" X 24"         09 69 00 - RAISED ACCESS FLOORING       -       -       -       -       -	F
	F
ARF       REFER TO SPECIFICATIONS       -       REFER TO SPECIFICATIONS       REFER TO SPECIFICATIONS         09 91 23 PAINTING - EPOXY PAINT       -       -       REFER TO SPECIFICATIONS       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	PECIFICATIONS F
09 91 23 PAINTING - PAINT         PT1       TO BE SELECTED FROM SHERWIN WILLIAMS STANDARD COLORS       REFER TO SPECIFICAITONS       LIGHT GREY         PT2       TO BE SELECTED FROM SHERWIN WILLIAMS STANDARD COLORS       REFER TO SPECIFICAITONS       WHITE	
12 24 00 WINDOW SHADES- ROLLER SHADE	F
RS1 REFER TO SPECIFICATIONS - TO BE SELECTED FROM MANUFACTURERS STANDARDS REFER TO	F
12 36 00 - SOLID SURFACE COUNTERTOPS         SSM1       CORIAN         SSM2       CORIAN         SOLID SURFACE       -         BASALT TERRAZZO       12MM         12 36 00 - SOLID SURFACE       -         WHITE       12MM	F

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CRETE ANCHOR (32" O.C.)		FIRST FLOOR PLAN ROOM INDEX - OVERALL			TE OF	
	ROOM				STATE OF C	
RESHOLD MOLDING	NUMBER	ROOM NAME	AREA	OCCUPANCY	ANDREW	
S (32" O.C.)	A101	CORRIDOR	456 SF		HUELSMAN	
ALL-STEEL ACCESS FLOOR PANEL. FULL SIZE OR CUT TO FIT AGAINST WALL. USE	A102 A103	STORAGE RESTROOM	860 SF 54 SF	3		
SHIM AS NECESSARY TO ARREST SHIFTING.	A103 A104	SERVER ROOM	506 SF	2	E-78372 ECTERES SSIONAL F	
STRINGER		IT OFFICE	432 SF	4	SIONAL F	
	A106 A107	OFFICE	79 SF 161 SF	2	ANDREW P. HUI	
	A107 A108	OFFICE	161 SF 166 SF	2	LICENSE #E- EXPIRATION DATE: 1	78372
	A201	STORAGE	884 SF	3		
<u>ل</u>						
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	TYDICAL	NICHES			~	<b>∀</b> Z
	TYPICAL FI				GARMANN MILLER	OHIO   INDIANAPOLIS, INDIANA gm.com
		NOTED OTHERWISE, THESE FINISH SELECTIONS SHALL BE USE DUT THE PROJECT. CONTRACTOR SHOULD BRING ANY DISCR				IS, IN
		TECT'S ATTENTION IMMEDIATELY.			44	APOI
	EXPOSED F	VAC ELEMENTS (CEILING) MATCH PT2				NAN.
	EXPOSED H	VAC ELEMENTS (WALLS) MATCH ADJACENT WAL	L FINISH			IN I
		TRUCTURE (CEILING) MATCH PT2 IETAL DECK MATCH PT2			<b>~</b> –	MBUS, OHIO   II creategm.com
	GWB CEILI	NGS AND BULKHEADS PT2				
		1ETAL DOOR FRAMES PT1 1ETAL DOORS PT1				cre
	INTERIOR \	VOOD DOORS WD1			(7)	COLI
	SWITCH PL CABINET H	ATES AND OUTLET COVERS WHITE ARDWARE CH1				DHIO   COLUMBUS, create
	WINDOW					OHIO
						MINSTER,
						WIN
	FLOOR FIN	SHES GENERAL NOTES				
BACKING		OORING TRANSITIONS AND SEAMS AT DOOR SHALL OCCUR	DIRECTLY UN	DER THE		
	C	ENTERLINE OF CLOSED DOOR UNLESS NOTED OTHERWISE.				
RED		OORING TRANSITIONS ARE TO BE EASED TO ACHIEVE A SMO RANSITION.	Joth and un	NIFORM		
		OOR FINISHES SHALL EXTEND UNDER BUILT-IN COUNTER AN	ND EQUIPMEN	IT.		
		EFERENCE THE FINISH MATERIAL SCHEDULE FOR MANUFACT	TURERS, TYPES	5, AND		
		DLOR SELECTIONS. LL BASE MATERIALS SHALL BE INSTALLED TIGHT TO FLOORIN	IG SLIRFACF			
		POSED CEILING / STRUCTURE TO BE PAINTED, UNLESS NOT		E		
					GOVERNMENT	
STRIP	# 09.60.00 A	KEYNOTE DESCRIPTION TAKE CARE TO MAKE CLEAN CUTS AND PRESERVE EXISTING	CARPET TO R	FMAIN		14537:
RF/SV/L						OHIC
4						P CITY
						Æ, TIP
					IXZ	R DRIV
						ARBEF
	FINISH TA	G LEGEND				UTH G
						280 SOUTH GARBER DRIVE, TIPP CITY, OHIO 45371
RING		A1XX - ROOM NUMBER				Ä
		FLOOR FINISH RF1				
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					l d	
		NISH REMARK* <u>1</u>			TIPP	
DER STRIP	*REMARK	NUMBERS COORDINATE WITH "INTERIOR FINISH REMARKS"	" NOTES LEGE	ND ABOVE		
	ΜΛΤΕΡΙΛΙ	S NOTED IN FINISH TAG SHOULD BE CONSIDERED THE OVERA				
	ROOM MA	RKED UNLESS NOTED OTHERWISE WITH KEYNOTES ON FINIS				
d. <u>A</u> <u>A</u> d	ELEVATIO	IS.				
AB - LEVEL AS	INTERIOR	FINISH REMARKS				
	1 APPLY	NALL PAINT AND RUBBER BASE AT NEWLY CONSTRUCTED W			ISSUANCES/REVIS	IONS
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#### SPECIAL INSPECTION NOTES

- The OWNER shall employ one or more special inspectors to provide inspections during construction on the types of work itemized below. 2 - Only the required STRUCTURAL Special Inspections have been listed on this sheet . Please refer to architectural drawings and/or specifications for required non-structural Special Inspections, if applicable.

3 - The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. 4 - Numbered and lowercase sublettered inspections indicate referenced OBC requirements 5 - Some numbered or lettered special inspection items may not be listed. These items are not required on this project.

6 - The Special Inspections table and other contract documents indicate the special inspections anticipated at the time the documents were approved by the Building Official.

REQUIRED STRUCTURAL SPECIAL INSPECTIONS				Additional OBC	
Soils - OBC Table 1705.6	Continuous	Periodic	Referenced Standard	Requirements	Remarks Geotechnical Investigation shall include items of Special Inspection
A. Geotechnical Investigations				1803	and Testing as noted in OBC Section 1803
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	х			Confirm bearing conforms to geotechnical report
<ol><li>Verify excavations are extended to proper depth and have reached proper material.</li></ol>	_	x			
		encie.		1000 5 1	Confirm structural fill materials meet specifications outlined in
<ol> <li>Perform classification and testing of compacted fill materials.</li> <li>Verify use of proper materials, densities and lift thicknesses during</li> </ol>		Х		1803.5.1	geotechnical report. Confirm structural fill materials meet specifications outlined in
placement and compaction of compacted fill. 5. Prior to placement of compacted fill, observe subgrade and verify that	X				geotechnical report. Confirm that site requirements are met according to the geotechnica
site has been prepared properly.		х			report, prior to placing structural fill.
		ý.			
Concrete Construction, Cast-In-Place - OBC Table 1705.3	Continuous	Periodic	Referenced Standard	Additional IBC Requirements	Remarks
	Continuous	Terrodic		Requirements	SPECIAL INSPECTIONS APPLY TO VERIFICATION OF
					DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES INCLUDING REVIEW FOR COMPLETENESS AND
A. Fabricator Inspections	-	Х		1704.2.5	ADEQUACY RELATIVE TO THE CODE REQUIREMENTS
1. Inspect reinforcement and verify placements.	<u></u>	x	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3.	1908.4	Confirm size and spacing of bars. Tolerances and reinforcing placement per ACI 7.5; spacing limits for reinforcing ACI 7.6
3. Inspect anchors cast in concrete.	—	Х	ACI 318: 17.8.2		
					All bolts visually inspected. Post-installed anchors shall be qualified for use in cracked concrete
					and shall have passed the Simulated Seismic Tests in accordance
4. Inspect anchors post-installed in hardened concrete members.					with ACI 355.2. Special inspections apply to anchor product name, type, and dimensions, hole dimensions, compliance with drill bit
a. Adhesive anchors installed horizontally or upwardly inclined orientations to resist sustained tension loads.	x		ACI 318: 17.8.2.4		requirements, cleanliness of the hole and anchor, adhesive expiration date, anchor/adhesive installation, anchor embedment,
b. Mechanical anchors and adhesive anchors not defined in 4.a.	-	x	ACI 318: 17.8.2	1001	and tightening torque
5. Verify use of required design mix		x	ACI 318:Ch.19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	Tests and submittals per specifications
<ol> <li>Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of</li> </ol>					
concrete.	x		ASTM C172, ASTM C31, ACI 318: 26.4, 26.12	1908.1	Tests per specifications
<ol><li>Inspection of concrete placement for proper application techniques.</li></ol>	x	2 <u>1</u> 2	ACI 318: 26.5	1908.6, 1908.7, 1908.8	Confirm placement conforms to ACI 301
		×			Confirm products conform to approved shop drawings; confirm
<ol> <li>Verify maintenance of specified curing temperature and techniques.</li> <li>Inspect formwork for shape, location, and dimensions of the concrete</li> </ol>	-	Х	ACI 318: 26.5.3-26.5.5	1908.9	curing performed per specifications
member being formed	—	Х	ACI 318: 26.11.1.2(b)	—	Confirm dimensions per contract drawings
LEVEL 1 Masonry Construction - OBC Table	Continuous	Periodic	Referenced Standard	Additional OBC Requirements	Remarks
1. Compliance with required inspection provisions of the construction		v		•	
documents and the approved submittals shall be verified. 2. Verification of f 'm and f 'AAC prior to construction except where specifically		X	TMS 602/ACI 530.1/ASCE 6: Art. 1.5		
exempted by this code. 3. Verification of slump flow and VSI as delivered to the site for self-	-	Х	TMS 602/ACI 530.1/ASCE 6: Art. 1.4B		
consolidating grout.	x	-	TMS 602/ACI 530.1/ASCE 6: Art. 1.5B.1.b.3		
<ol> <li>As masonry construction begins, the following shall be verified to ensure compliance:</li> </ol>					
a. Proportions of site-prepared mortar. b. Construction of mortar joints.		x	TMS 602/ACI 530.1/ASCE 6: Art. 2.1, 2.6A TMS 602/ACI 530.1/ASCE 6: Art. 3.3B		Visual inspection of preparation to confirm proportions Visual inspection to confirm placement of CMU
5. During construction the inspection program shall verify:			TMS 602/ACT 530. 1/ASCE 6. Art. 5.3B		
a. Size and location of structural elements.	_	x	TMS 602/ACI 530.1/ASCE 6: Art. 3.3F		Visual inspection to confirm size and location conforms to contract drawings.
b. Type, size and location of anchors, including other details of anchorage					Confirm size, type, and location of anchors conforms to contract
of masonry to structural members, frames, or other construction.		х	TMS 402/ACI 530/ASCE 5: Sec. 1.2.1(e), 6.1.4.3, 6.2.1		drawings.
<ul> <li>d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F)or hot weather (temperature above</li> </ul>					
90°F). 6. Prior to grouting, the following shall be verified to ensure compliance		X	TMS 602/ACI 530.1/ASCE 6: Art. 1.8C, 1.8D	2104.3, 2104.4	Visually confirm according to ACI 530.1 Article 1.8C and 1.8D
a. Grout space is clean		Х	TMS 602/ACI 530.1/ASCE 6: Art. 3.2D, 3.2F		Visually confirm
e. Construction of mortar joints. 7. Preparation of any required grout specimens, mortar specimens and/or		Х	TMS 602/ACI 530.1/ASCE 6: Art. 3.3B		Visual inspection to confirm placement of CMU
prisms shall be observed.					Visual inspection during preparation/construction
		Х	TMS 602/ACI 530.1/ASCE 6: Art. 1.4	2105.2.2, 2105.3	rieden niekoenen eening krepenenen eenien
UNIT STRENGTH METHOD	5	X	TMS 602/ACI 530.1/ASCE 6: Art. 1.4 ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90	2105.2.2, 2105.3 2105.2.2.1	
UNIT STRENGTH METHOD PRISM TEST METHOD			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM		
PRISM TEST METHOD			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER
			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY
PRISM TEST METHOD			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST.
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF
PRISM TEST METHOD			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK OI
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT			ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK	2105.2.2.1	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK OI FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK	2105.2.2.1 2105.2.2.2	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK OI FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK	2105.2.2.1 2105.2.2.2	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK	2105.2.2.1 2105.2.2.2	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK	2105.2.2.1 2105.2.2.2 N)	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK OI FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF
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PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK STRUCTURAL STEEL FRAMING	2105.2.2.1 2105.2.2.2 <u>N)</u> 3" Additional OBC	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF WALL, WHICHEVER COMES FIRST.
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT IF STRUCTURAL STEEL SPECIFICATIONS ARE INCLUDED IN THE CON	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK STRUCTURAL STEEL FRAMING	2105.2.2.1 2105.2.2.2 <u>N)</u> 3" Additional OBC	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF WALL, WHICHEVER COMES FIRST.
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT IF STRUCTURAL STEEL SPECIFICATIONS ARE INCLUDED IN THE CON Open-Web Steel Joists and Joist Girders - OBC Table 1705.2.3	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK STRUCTURAL STEEL FRAMING	2105.2.2.1 2105.2.2.2 <u>N)</u> 3" Additional OBC	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF WALL, WHICHEVER COMES FIRST.
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT IF STRUCTURAL STEEL SPECIFICATIONS ARE INCLUDED IN THE CON Open-Web Steel Joists and Joist Girders - OBC Table 1705.2.3  1. Installation of open-web steel joists and girders. a. End connections- welding or bolted.	TESTING EVE	RY 5,000 FT2	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK STRUCTURAL STEEL FRAMING	2105.2.2.1 2105.2.2.2 <u>N)</u> 3" Additional OBC	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SC FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK O FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF WALL, WHICHEVER COMES FIRST.
PRISM TEST METHOD COMPRESSIVE STRENGTH OF MORTAR COMPRESSIVE STRENGTH OF GROUT A. Cleanout hole provided at base when high lift grouting is performed Structural Steel STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WIT IF STRUCTURAL STEEL SPECIFICATIONS ARE INCLUDED IN THE CON Open-Web Steel Joists and Joist Girders - OBC Table 1705.2.3  1. Installation of open-web steel joists and girders. a. End connections- welding or bolted. b. Bridging- horizontal or diagonal. 1. Standard bridging.	TESTING EVE	RY 5,000 FT2 TY ASSURA DOCUMENT Periodic	ASTM C62, ASTM C216, ASTM C652, ASTM C476, ASTM C55, ASTM C90 ASTM C1314 MIA - INSPECTOR'S HANDBOOK ASTM C780 MIA - INSPECTOR'S HANDBOOK ASTM C780 NIA - INSPECTOR'S HANDBOOK ASTM C780 NCE INSPECTION REQUIREMENTS OF AISC 360-10 (CHAPTER S REFER TO SECTION 051200 "STRUCTURAL STEEL FRAMING Referenced Standard	2105.2.2.1 2105.2.2.2 <u>N)</u> 3" Additional OBC	(1) TEST PER DAY FOR 3 CONSECUTIVE WORK DAYS AT THE START OF THE JOB. ONE TEST SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK, OR FOR EVERY 5,000 SQ FT. OF WALL, WHICHEVER IS FIRST. AT THE START OF GROUTING OPERATIONS, TAKE ONE TEST PER DAY FOR THE FIRST THREE DAYS. THE TESTS SHALL CONSIST OF 3 SPECIMENS. AFTER THE FIRST 3 TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHALL BE TAKEN ONCE A WEEK OF FOR EVERY 30 CU. YDS. OF GROUT OR FOR EVERY 5,000 SQ. FT. OF WALL, WHICHEVER COMES FIRST.
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### **DESIGN CRITERIA NOTES**

#### REFERENCED DESIGN CODE: OHIO BUILDING CODE (2017)

#### ENVIRONMENTAL LOADS: ROOF SNOW LOAD

<u>R00</u>	<u>F SNOW LOAD:</u>			
	GROUND SNOW LOAD,	Pg = 20	) PSF	
	FLAT ROOF SNOW LOAD,		Pf = 20 PSF	
	SNOW EXPOSURE FACTOR,		Ce = 1.0	
	SNOW LOAD IMPORTANCE FA	CTOR,	ls = 1.1	
	THERMAL FACTOR,		Ct = 1.0	
WIND	LOAD:			
	BASIC WIND SPEED (3 SECONI	D GUST)	= 120 MPH	
	RISK CATEGORY =		III	
	WIND EXPOSURE =	С		

#### WIND EXPOSURE = INTERNAL PRESSURE COEFFICIENT = +/- 0.18 COMPONENT AND CLADDING TO BE USED FOR ALL ITEMS NOT SPECIFICALLY DESIGNED BY ENGINEER OF RECORD (0.6W, SERVICE) = ROOFS = +20 PSF / -45 PSF

WALLS = +20 PSF / -24 PSF EARTHQUAKE LOAD: SEISMIC IMPORTANCE FACTOR, le = 1.25 MAPPED SPECTRAL ACCELERATION, Ss = 0.172 S1 = 0.072 SITE CLASS = D (ASSUMED) DESIGN SPECTRAL ACCELERATION: Sds = 0.183 Sd1 = 0.116

SEISMIC DESIGN CATEGORY = B BASIC SEISMIC-FORCE-RESISTING SYSTEM (RESPONSE MODIFICATION FACTOR) = [Reference: ASCE 7-10 Table 12.2-1]

A9 ORDINARY REINFORCED MASONRY SHEAR WALLS (R=2.0) PER OBC 3404.4 EXCEPTION, THE EXISTING LATERAL LOAD CARRYING STRUCTURAL ELEMENTS WILL HAVE A DEMAND/CAPACITY INCREASE OF NO MORE THAN 10% AND SHALL BE PERMITTED TO REMAIN UNALTERED.

#### SEISMIC RESPONSE COEFFICIENT, Cs = 0.114 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE DESIGN BASE SHEAR (1.0E) = _____ KIPS

DESIGN UNIFORM LOADS:

ROOF DEAD LOAD: 25 PSF ROOF LIVE LOAD: 25 PSF UNIFORM FLOOR LIVE LOAD : 150 PSF

#### UNIFORM MEZZANINE LIVE LOAD : 125 PSF

SPECIAL LOADS: SEE PLAN FOR SPECIAL LOADING CONDITIONS

### **GENERAL STRUCTURAL NOTES**

- GENERAL (ALL TRADES) 1. IN ACCORDANCE WITH SECTION 1704 OF THE OHIO BUILDING CODE, SPEC INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. SPECIAL INSPECTI SHALL BE PERFORMED IN ACCORDANCE WITH THE "SPECIAL INSPECTION REQUIREMENTS" SCHEDULE. ALL FABRICATORS SHALL SATISFY THE "FAE APPROVAL" PROVISIONS IN SECTION 1704.2.5.1 WHICH REQUIRES THE FAI TO MAINTAIN AN AGREEMENT A BOARD RECOGNIZED INDUSTRY TRADE ASSOCIATION CERTIFICATION PROGRAM OR A BOARD RECOGNIZED FABF
- INSPECTION AGENCY PER 4101:7-6-01 OF OHIO ADMINISTRATIVE CODE. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY CONDITIONS SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN TO THE ENGINEER STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS
- AND SPECIFICATIONS OF ALL OTHER DISCIPLINES. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY
- OF THE CONTRACTOR. SHELL + MEYER ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK
- FOR THE PURPOSES OF UL FIRE ASSEMBLY RATINGS E119 AND UL 263. THE STRUCTURE SHALL BE CONSIDERED "UNRESTRAINED". UNLESS SPECIFICALLY NOTED IN THE CONSTRUCTION DOCUMENTS PER OBC SECTION 703.2.3.

#### POST INSTALLED ANCHORS

INSTALL ALL ANCHORS PER THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS (MPII).

- WHERE NOT INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONCRETE SUBSTRATE - U.N.O. USE 3/4" DIAM. HILTI 'HAS' THREADED RODS OR
- HIT-Z ANCHOR RODS WITH HIT-HY 200 SAFE SET SYSTEM, ICC ESR-3187. MINIMUM EMBEDMENT 0'-6 3/4".
- REINFORCING INTO CONCRETE U.N.O. USE HILTI HIT-RE 500 V3 EPOXY, ICC ESR-3814. MINIMUM EMBEDMENT INTO CONCRETE 44x BAR DIAMETER U.N.O. GROUTED CONCRETE MASONRY (INSTALLED IN WALL FACE) MIN. 8" GROUT
- AROUND ALL ANCHORS U.N.O. USE 3/4" DIAM. HILTI KWIK BOLT 3 ANCHORS. ICC-ES ESR-1385. MINIMUM EMBEDMENT 0'-4 3/4". GROUTED CONCRETE MASONRY (INSTALLED VERTICALLY IN TOP COURSE OF
- WALL) U.N.O. USE 3/4" DIAM. HILTI KWIK HUS EZ SCREW ANCHORS, ICC-ES ESR-3056. MINIMUM EMBEDMENT 0'-6 1/4". UNGROUTED CONCRETE MASONRY - USE THE HILTI HIT HY-70 ADHESIVE SYSTEM
- ICC-ES ESR-2682. U.N.O. STEEL ANCHORS SHALL BE 1/2" DIAM. HILTI 'HAS-E' CONTINUOUSLY THREADED ROD x 0'-4" MINIMUM EMBEDMENT. USE TWO APPROPRIATELY SIZED MESH SLEEVES PER ANCHOR.

#### **DIVISION 3 - FOUNDATIONS AND CONCRETE**

- ALLOWABLE NET SOIL BEARING CAPACITY = 3,000 PSF ; REF. SOILS REPORT DATED MARCH 31. 2000 BY CESO TESTING TECHNOLOGY ALL EXCAVATIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING
- CONCRETE. CONCRETE WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST "AMERICAN CONCRETE INSTITUTE" INCLUDING THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C150 OR C595, AGGREGATE CONFORMING
- TO ASTM C33, AND ADMIXTURES CONFORMING TO ASTM C494, C1017, C618, C989 AND C260. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- CONCRETE SHALL ATTAIN THE FOLLOWING ULTIMATE 28 DAY COMPRESSIVE STRENGTHS: 3,000 P.S.I. FOR FOOTINGS 3,500 P.S.I. FOR FLOOR SLABS ON DECK
- 4,000 P.S.I. FOR INT. SLABS ON GRADE, WALLS 4,500 P.S.I. FOR EXT. SLABS ON GRADE; SLUMP SHALL BE 4" ± 1"
- ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED (4.5 FO 7.5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260. MAXIMUM W/C RATIO = 0.45
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR ASTM A996, GRADE 60. TOP OF FOOTING ELEVATIONS SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE
- REQUIRED DESIGN BEARING PRESSURE PER THE GEOTECHNICAL ENGINEER'S SPECIFICATION. REFER TO SCHEDULES AND DETAILS FOR MINMIMUM FOOTING THICKNESSES.

#### **DIVISION 4 - MASONRY**

- MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-13)", PUBLISHED BY THE MASONRY SOCIETY.
- HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90. COMPRESSIVE STRENGTH OF THE BLOCK SHALL BE A MINIMUM 2650 PSI.
- FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH GROUT. GROUT SHALL CONFORM TO ASTM C476 AND SHALL OBTAIN A MINIMUM 28 DAY NET COMPRESSIVE STRENGTH OF 2500 P.S.I. UNDER NO CIRCUMSTANCES SHALL MASONRY MORTAR BE USED IN LIEU OF GROUT. 4
- ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM C-270 AND BE MADE WITH PORTLAND CEMENT/LIME (NON AIR-ENTRAINED). THE USE OF MASONRY CEMENT MORTAR IS STRICTLY PROHIBITED. USE TYPE 'S' FOR WALLS BELOW GRADE AND TYPE 'N' FOR ALL OTHER WALLS. THE MINIMUM 28 DAY NET COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY (f
- m) SHALL BE 2000 P.S.I., AS DETERMINED BY THE UNIT STRENGTH METHOD OF ACI 530 1
- PROVIDE STEEL JOIST AND BEAM BEARING PLATES AND OTHER ACCESSORIES AS 2'-8" BELOW ALL BEAM BEARINGS.
- INDICATED. PROVIDE (3) COURSES OF SOLIDLY GROUTED CMU OVER A WIDTH OF HOOK VERTICAL BARS INTO CONTINUOUS BOND BEAMS AT TOP OF WALLS (BELOW JOIST/TRUSS BEARING)

**DIVISION 5 - METALS** <u>TRUCTURAL STEEI</u> ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC RECOMMENDATIONS AND CONFORM TO ANSI/AISC 360-10 AND AISC 303-10 INCLUDED IN THE 14TH EDITION OF THE "STEEL CONSTRUCTION MANUAL". STEEL FABRICATORS SHALL BE AN AISC CERTIFIED SHOP AND SHALL SATISFY GENERAL (ALL TRADES) NOTE 1. OTHERWISE SHOP SPECIAL INSPECTIONS WILL BE REQUIRED. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS: WIDE FLANGE SECTIONS AND TEES ASTM A992 (50 KSI) STRUCTURAL HSS TUBING A500 Gr.C (50 KSI) STEEL PIPE A500 Gr. C (46 KSI) OTHER ROLLED PLATE/SHAPES A36 (36 KSI) UNLESS NOTED OTHERWISE, BASE PLATE ANCHOR RODS SHALL BE ASTM F1554 (36 4 KSI); USE NONSHRINK GROUT C1107 (8000 PSI). STRUCTURAL STEEL CONNECTIONS SHALL CONSIST OF 3/4" DIAM. HIGH STRENGTH ASTM F-1852 BOLTS AND/OR WELDS WITH E70-XX ELECTRODES. USE SHEAR TYPE CONNECTIONS SELECTED BY THE FABRICATOR FOR THE **FACTORED UNFACTORED** 

SHEAR FORCES INDICATED ON PLAN IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR ALLOWABLE STRESS DESIGN LOAD AND RESISTANCE FACTOR DESIGN, U.N.O. USE 5/16" THICK DOUBLE ANGLE CONNECTIONS, (AS DETAILED IN THE AISC "MANUAL OF STEEL CONSTRUCTION"), U.N.O. ON STRUCTURAL DRAWINGS. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 1/4 FILLET WELDS PER AISC REQUIREMENTS. TYPICAL LINTELS FOR MASONRY OPENINGS SHALL BE AS FOLLOWS, U.N.O. ON PLANS:

L3 1/2 x 3 1/2 x 5/16" ANGLES, EACH 4" WALL WIDTH, 4'-0" OPENINGS OR LESS (8" MINIMUM END BEARING, TYP. EACH END) L5 x 3 1/2 x 5/16" ANGLES, L.L.V., EACH 4" WALL WIDTH, 4'-1" TO 6'-8"

- OPENINGS (8" MINIMUM END BEARING, TYP. EACH END) W8X18 WITH 5/16" PLATE CONTINUOUS (EXTEND PLATE TO END OF BEAM),
- 6'-9" TO 12'-0" CMU OPENINGS. 12" MIN. BR'G. E.E. UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING ALL BRICK LINTEL ANGLES AND PLATES, SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.

COORDINATE ALL ROOF AND FLOOR OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, FRAME OPENINGS WITH L3x3x1/4" ANGLES TYPICAL U.N.O. CONTRACTOR TO VERIFY UNIT SIZES, WEIGHTS, AND LOCATIONS BEFORE ERECTION. STEEL JOISTS

ALL STEEL JOISTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SJI STANDARD SPECIFICATIONS, 2010 EDITION AND DESIGNED FOR THE FOLLOWING: "BEND CHECK" = 200# TOP & BOTTOM CHORD, U.N.O.

JOIST SHOE ROLL OVER (K-LH SERIES JOISTS) = PLF UNLESS NOTED AS AN 'SP' JOIST, THE SNOW DRIFT LOADS INDICATED ON PLAN HAVE BEEN INCLUDED IN THE JOIST SIZE USING THE EQUIVALENT UNIFORM LOAD METHOD. JOIST BRIDGING SHALL CONFORM TO SJI SPECIFICATIONS. PROVIDE DIAGONAL BRIDGING AT ALL BEAMS AND END BAYS. FIELD WELD BRIDGING AT ENDS AND INTERSECTIONS. ALL JOISTS FORTY (40) FEET AND LONGER REQUIRE A ROW OF

- BOLTED CROSS BRIDGING TO BE IN PLACE BEFORE SLACKENING OF HOISTING LINES. a. X-BRIDGING WHERE SHOWN ON PLAN IS IN EXCESS OF THE MINIMUM REQUIRED BY SJI. THIS IS TO ACCOUNT FOR ERECTION SEQUENCING, LIMITING END ANCHORAGE FORCES, MEP COORDINATION, AND FUTURE FLEXIBILITY. BAR JOIST SUPPLIER SHALL NOT OMIT THESE ADDITIONAL X-BRIDGES.
- PROVIDE AN ADDITIONAL ROW OF CONTINUOUS HORIZONTAL BOTTOM CHORD BRIDGING AT THE FIRST PANEL POINT LOCATION AT EACH END OF ALL ROOF JOISTS (TO RESIST WIND UPLIFT). UPLIFT BRIDGING SHALL TERMINATE WITH DIAGONAL BRIDGING AT ALL END BAYS. MAX NET UPLIFT = 15 PSF U.N.O.
- STEEL ROOF DECK SHALL BE 1-1/2" 20 GA. WR TYPE B GALVANIZED G90 PER ASTM A653, U.N.O.
- FLOOR DECK SHALL BE 2" 20 GA. COMPOSITE DECK GALVANIZED G90 PER ASTM A653. U.N.O.
- WELD DECK TO SUPPORTS WITH MINIMUM 5/8 INCH PUDDLE WELDS AT 12" o.c. (36/4) AND PROVIDE No.10 TEK SCREW SIDELAP FASTENERS AT 36" O.C., UNLESS SUPERCEDED BY SPECIFICATION OR A TYPICAL DECK ATTACHMENT DETAIL.

**DIVISION 5 - METALS** 

4

1

2.

- COLD FORM STEEL FRAMING (CFS) DESIGN, FABRICATION, AND ERECTION OF ALL COLD FORMED STEEL FRAMING MEMBERS SHALL CONFORM TO THE "NORTH AMERICAN SPECIFICATION FOR THE
- DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (AISI S100-12). ALL CFS MEMBERS AND ACCESSORIES SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A1003 WITH A MINIMUM YIELD STRENGTH AS FOLLOWS: 54 mils (16 Ga.) AND HEAVIER MEMBERS Fy= 50 KSI (GRADE ST50H) ; 43 mils (18 Ga.) AND LIGHTER MEMBERS Fy= 33 KSI (GRADE ST33H)
- ALL MEMBERS SHALL BE GALVANIZED WITH A COATING MEETING THE REQUIREMENTS OF ASTM A653. USE G90 OR EQUIVALENT FOR STUDS WITH A BRICK VENEER, G60 FOR ALL OTHER FRAMING MEMBERS AND ACCESSORIES.
- CFS LINTELS SHALL BE UNPUNCHED PROVIDE BRIDGING FOR STUDS AT A MAXIMUM SPACING NOT TO EXCEED 4'-0" AND PER MFR. REQUIRMENTS FOR JOISTS AND RAFTERS. ALL BRIDGING SHALL BE INSTALLED PRIOR TO THE ADDITION OF ANY LOADING. CONNECT BRIDGING TO EACH MEMBER BY WELDING, CLIP ANGLES OR OTHER APPROVED METHOD PER THE MANUFACTURER'S REQUIREMENTS.



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S0.1	STRUCTURAL NOTES
S1.1	FOUNDATION PLAN & SECTIONS
S1.2	TYPICAL FOUNDATION DETAILS
S2.1	MEZZANINE FRAMING PLAN & SECTIONS
S3.1	ROOF FRAMING PLAN & SECTIONS
S4.1	MASONRY DETAILS



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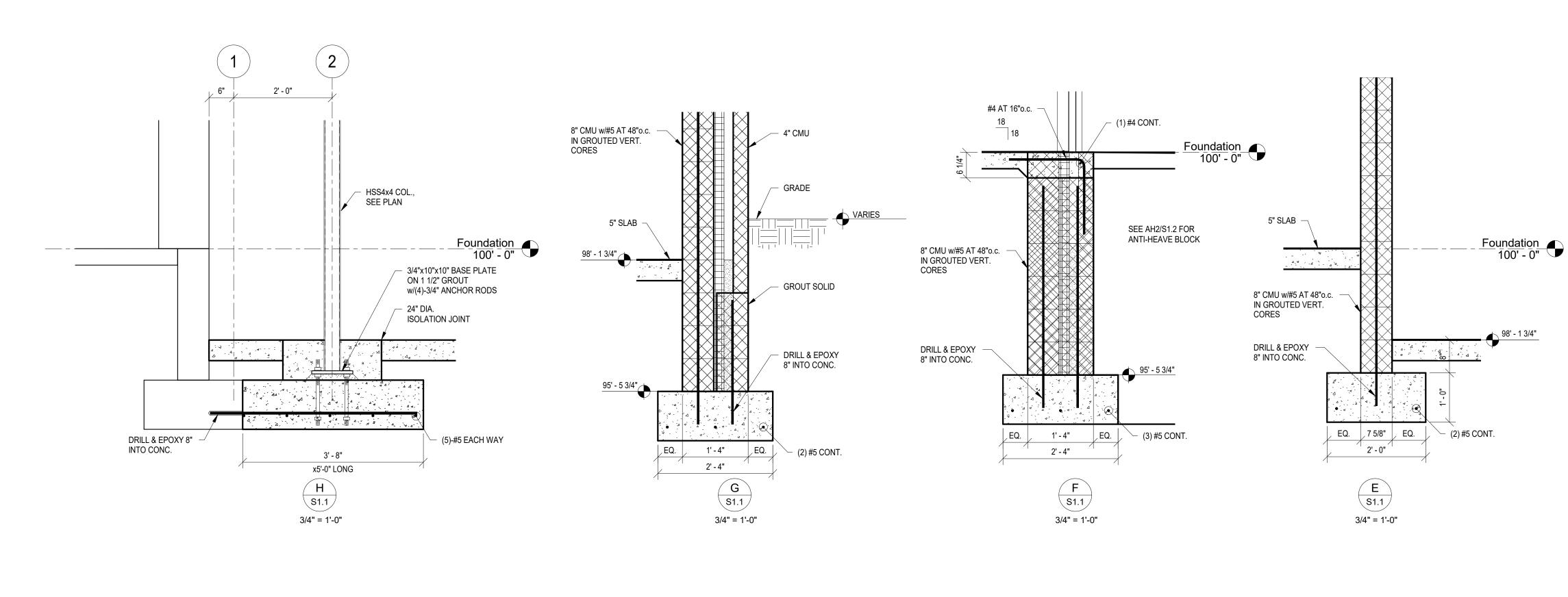
CITY GOVERNMENT COTY GOVERNMENT SULLARBEN NEILL SOOTH GARBER DRIVE, TIPP CITY, OHIO 45321
TIPP C BU
ISSUANCES/REVISIONS         BID DOCUMENTS       02/02/2023         PROJECT       DRAWN BY:         VLMBER:       DRAWN BY:         CHECKED BY:       PR

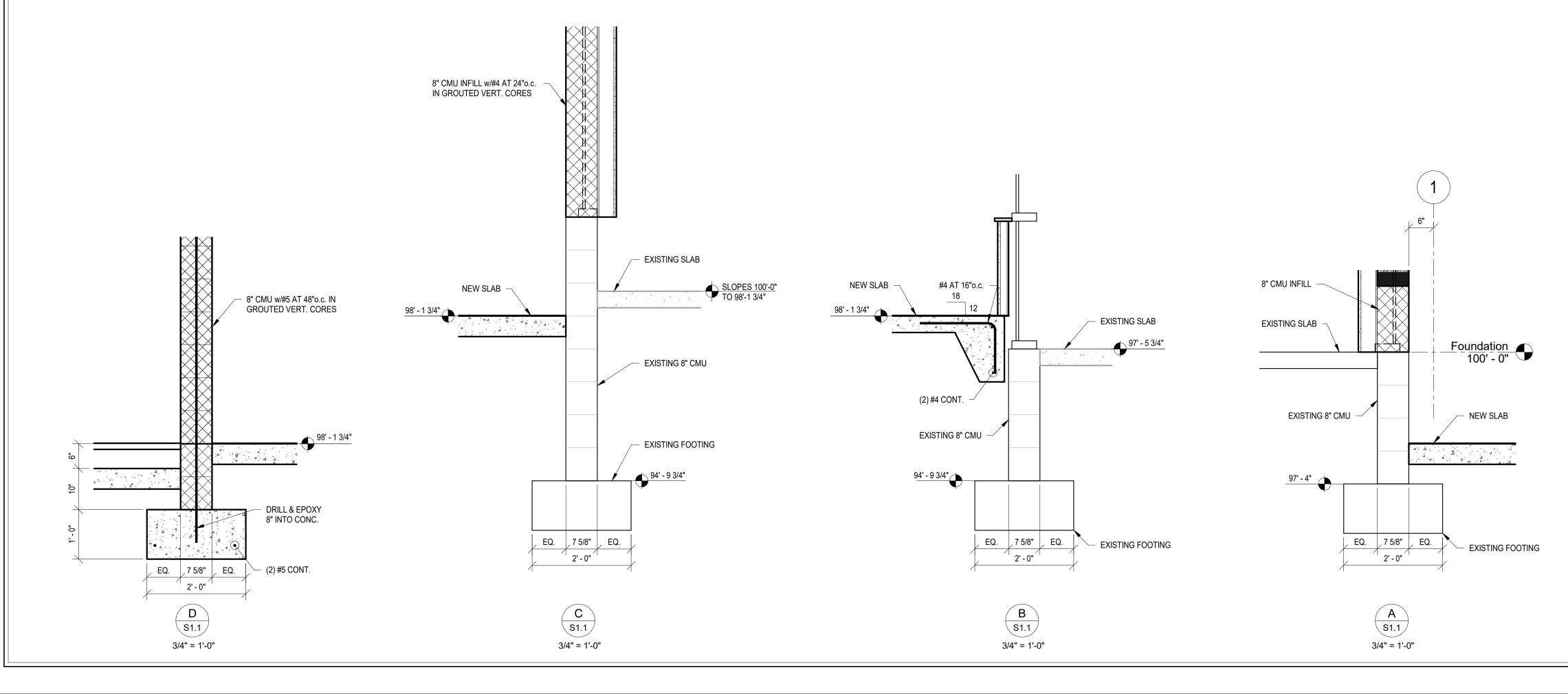


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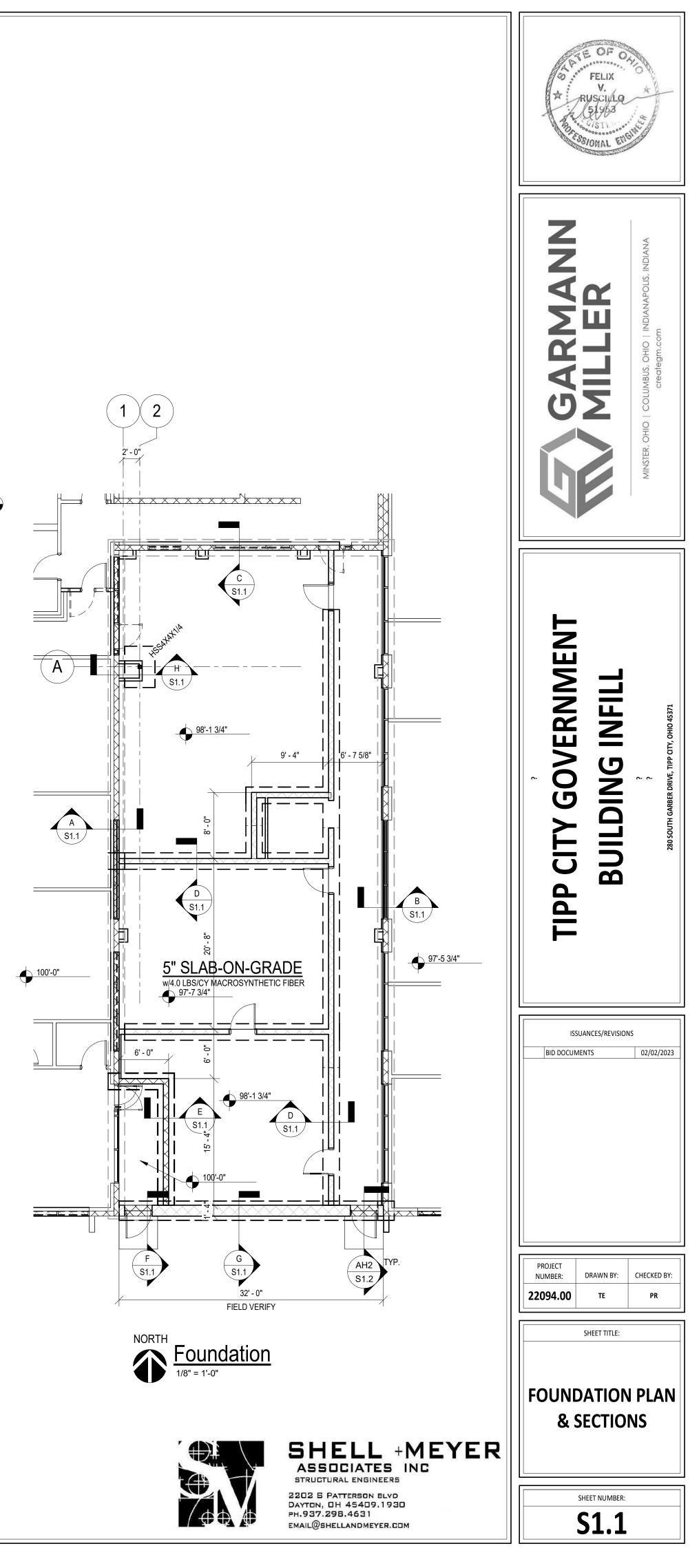
**S0.1** 

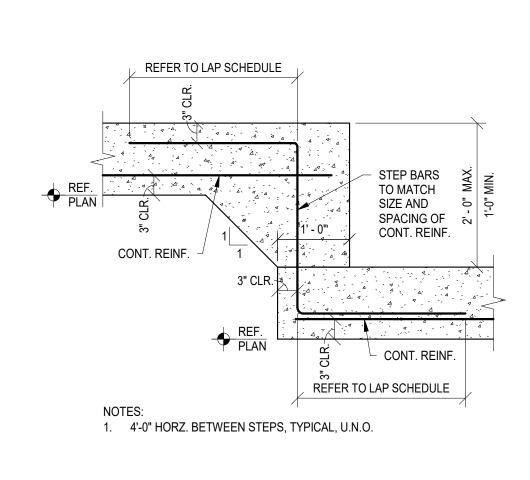






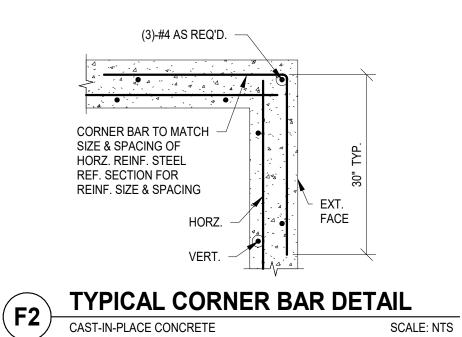
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**TYPICAL FOOTING STEP DETAILS** 

SCALE: NTS





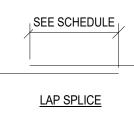
(F7)

F7a - Footing Step Typical

F2b - Typ Corner Bar Detail - 1 Layer

#### MINIMUM LAP SPLICE SCHEDULE

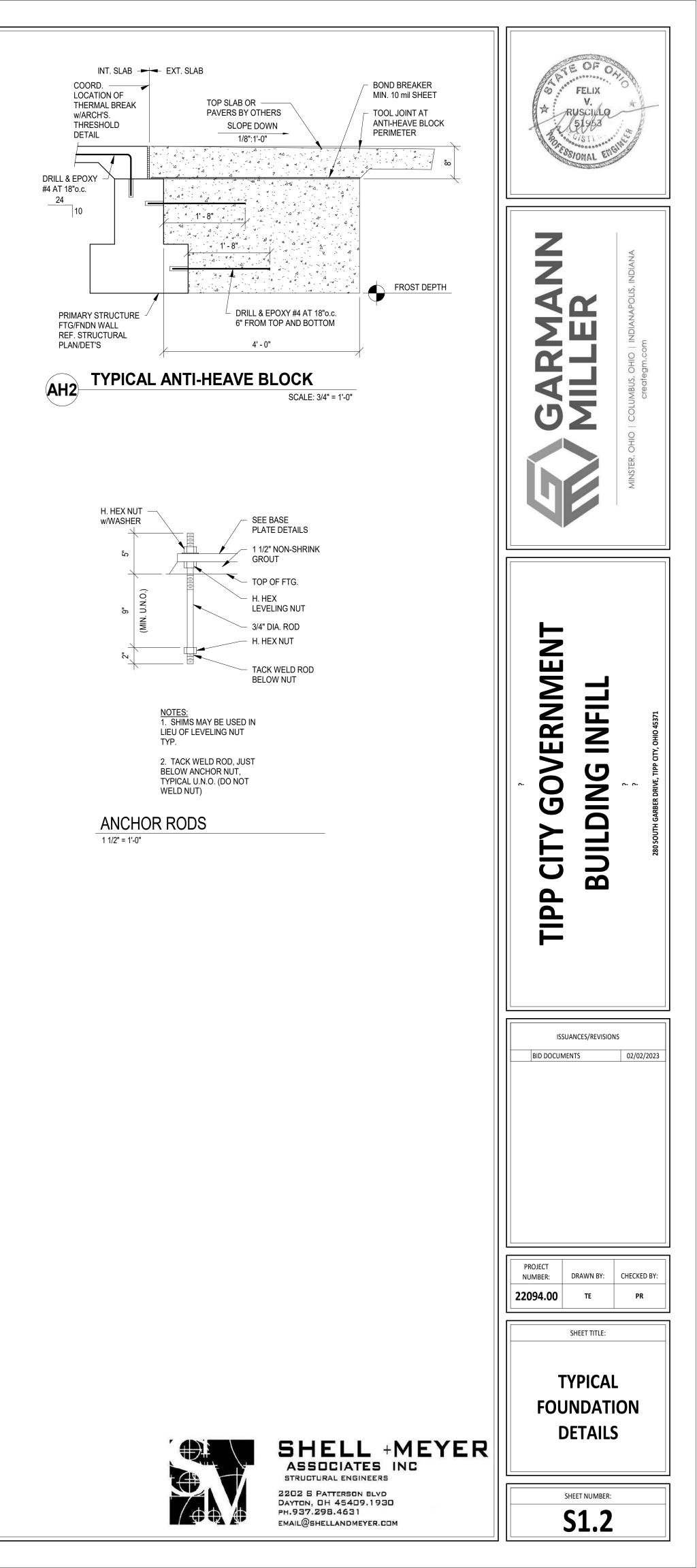
BAR SIZE	LAP LENGTH ^{1,2}
#3	24"
#4	32"
#5	40"
#6	48"
1 - Increase Lap Length by Reinforcing or Lightweight 2 - Based on minimum f	Concrete

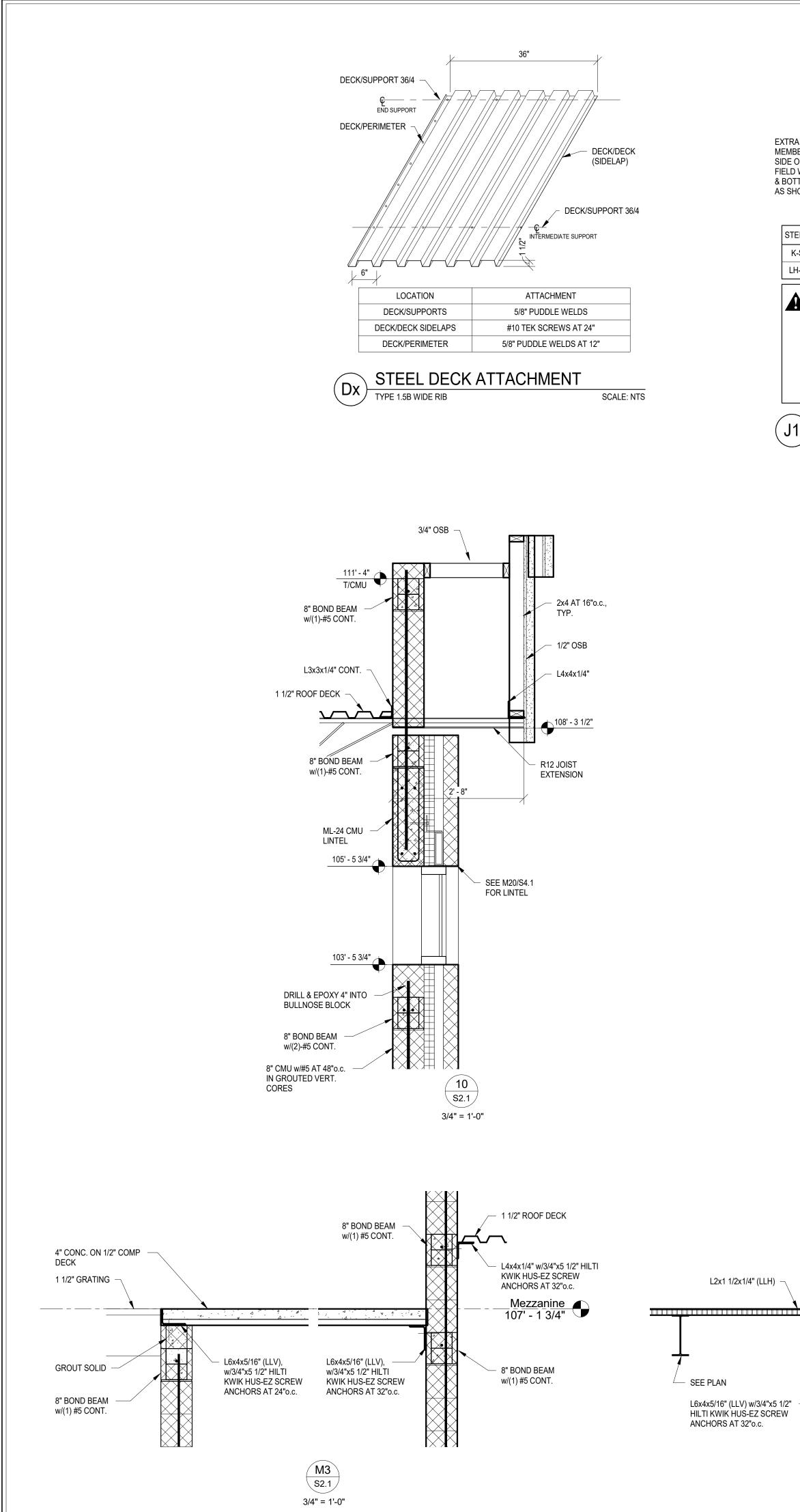


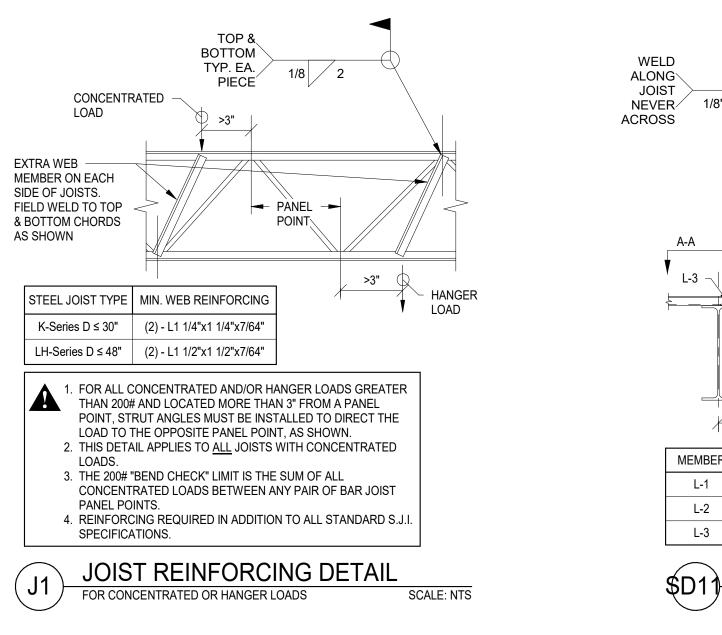


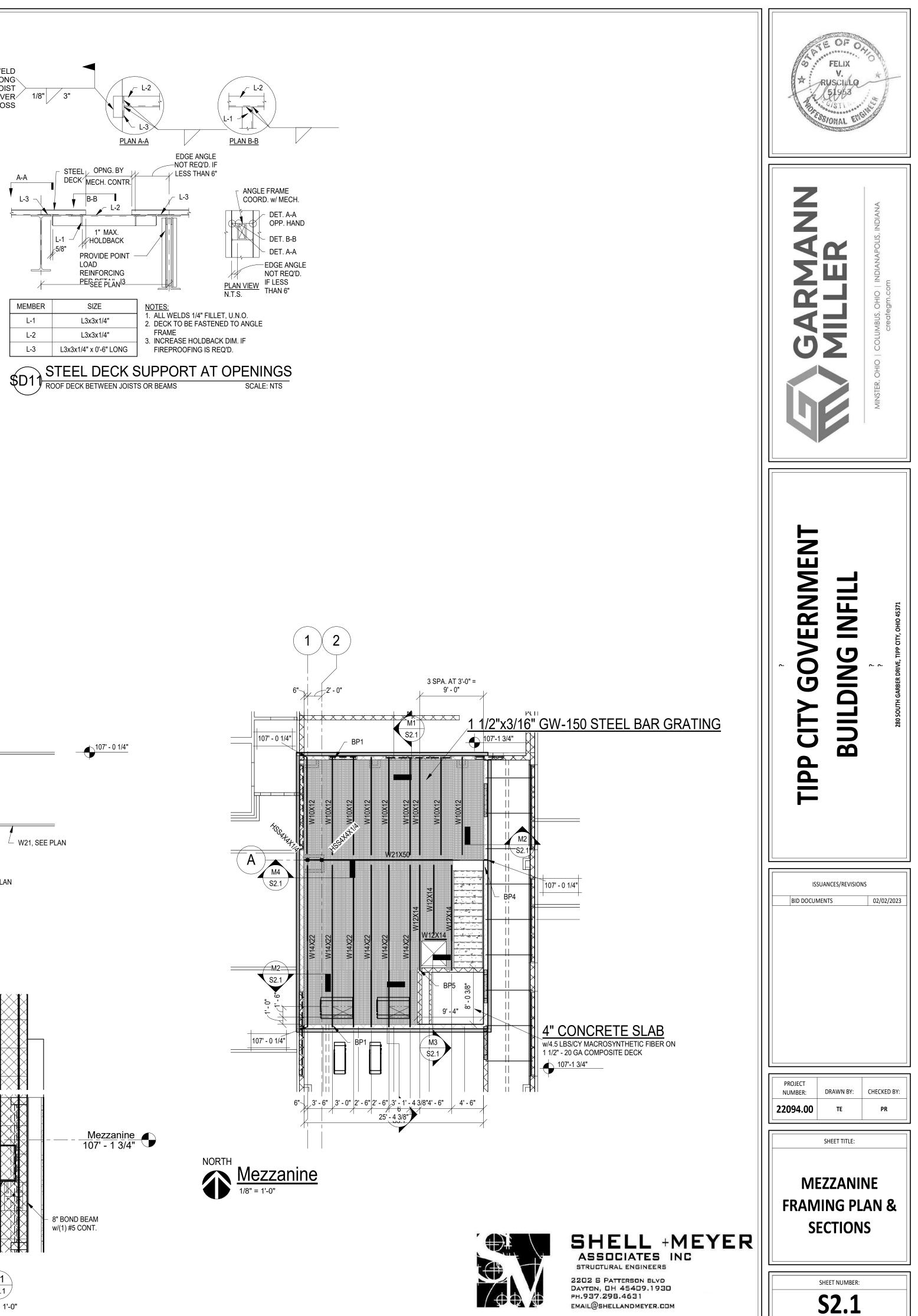
CASE	LOCATION	BAR SIZE	COVER (in.)							
A	Concrete cast against and permanently exposed to earth ¹	ALL SIZES	3"							
В	Concrete eveneed to earth or weether	#5 & Smaller	1 1/2"							
	Concrete exposed to earth or weather	#6 thru #18	2"							
с	Concrete NOT exposed to weather or in contact with earth									
	Walls, Slabs (0, 1, or 1.5 hr)	#11 & Smaller	3/4"							
	oundations cast against earth without using formwork ement clearances.	shall use CASE 'A' f	or							

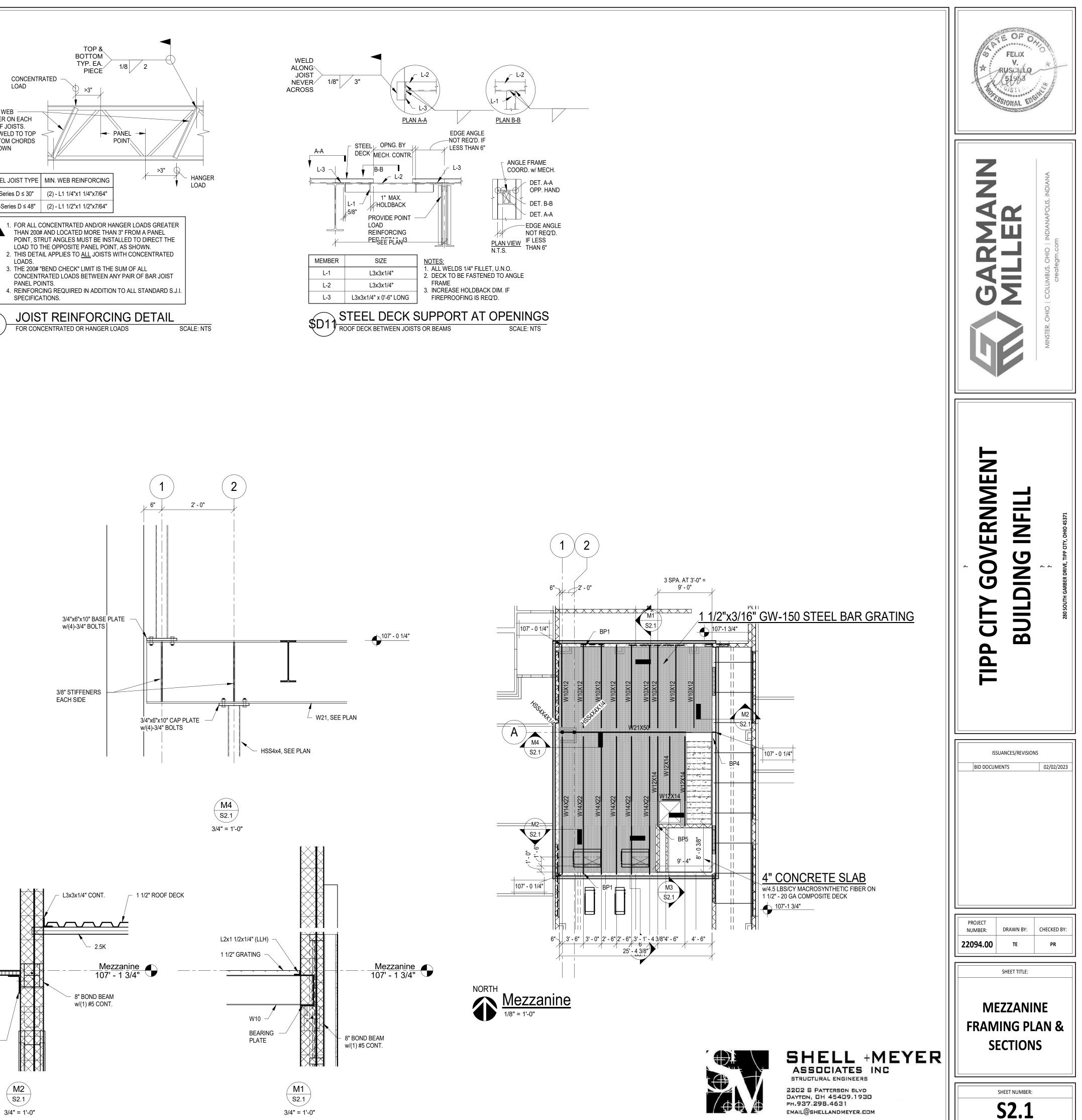
$(\mathbf{c})$	CONCRETE REINFORCING COVER
	SCALE: NTS



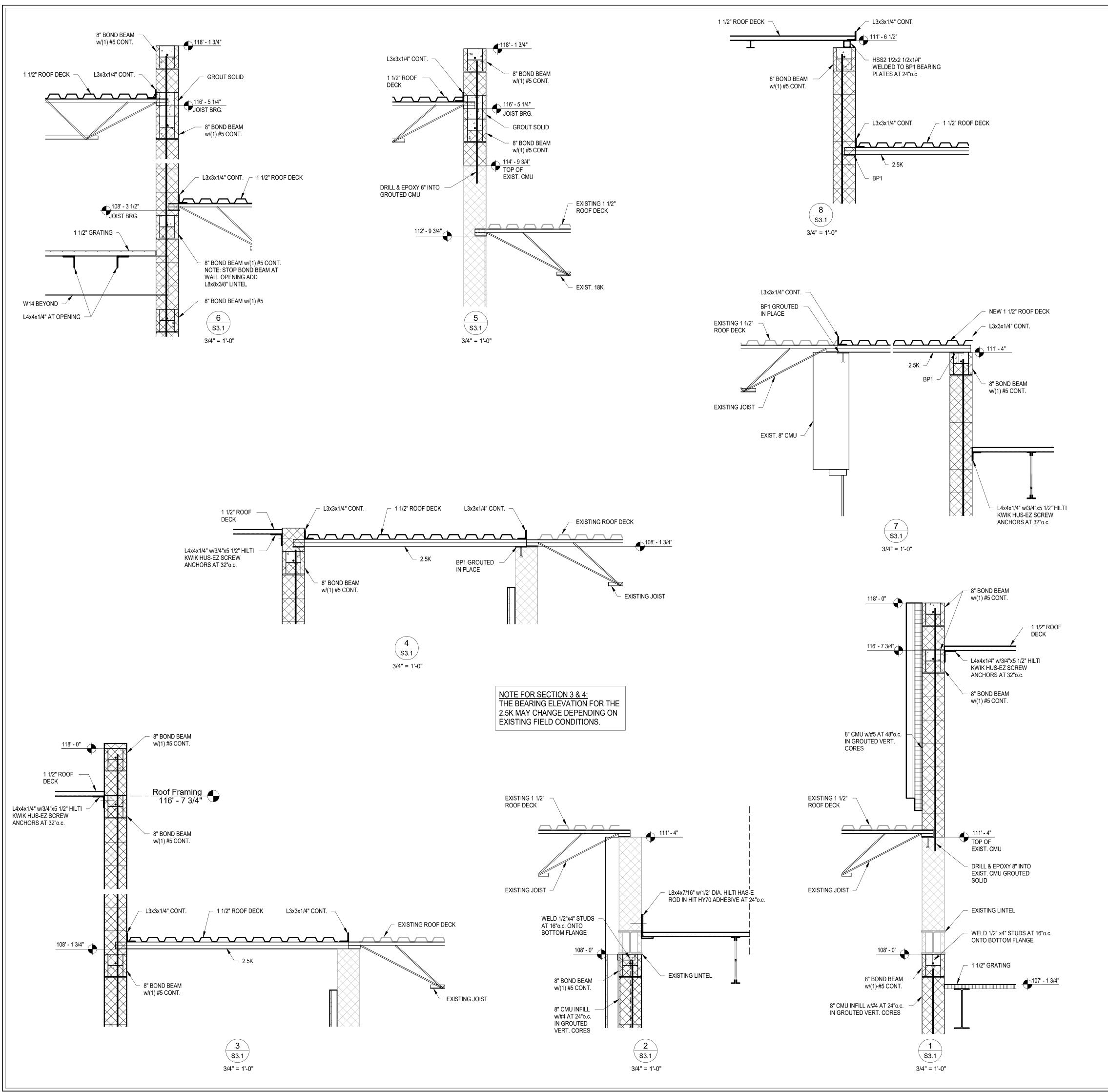












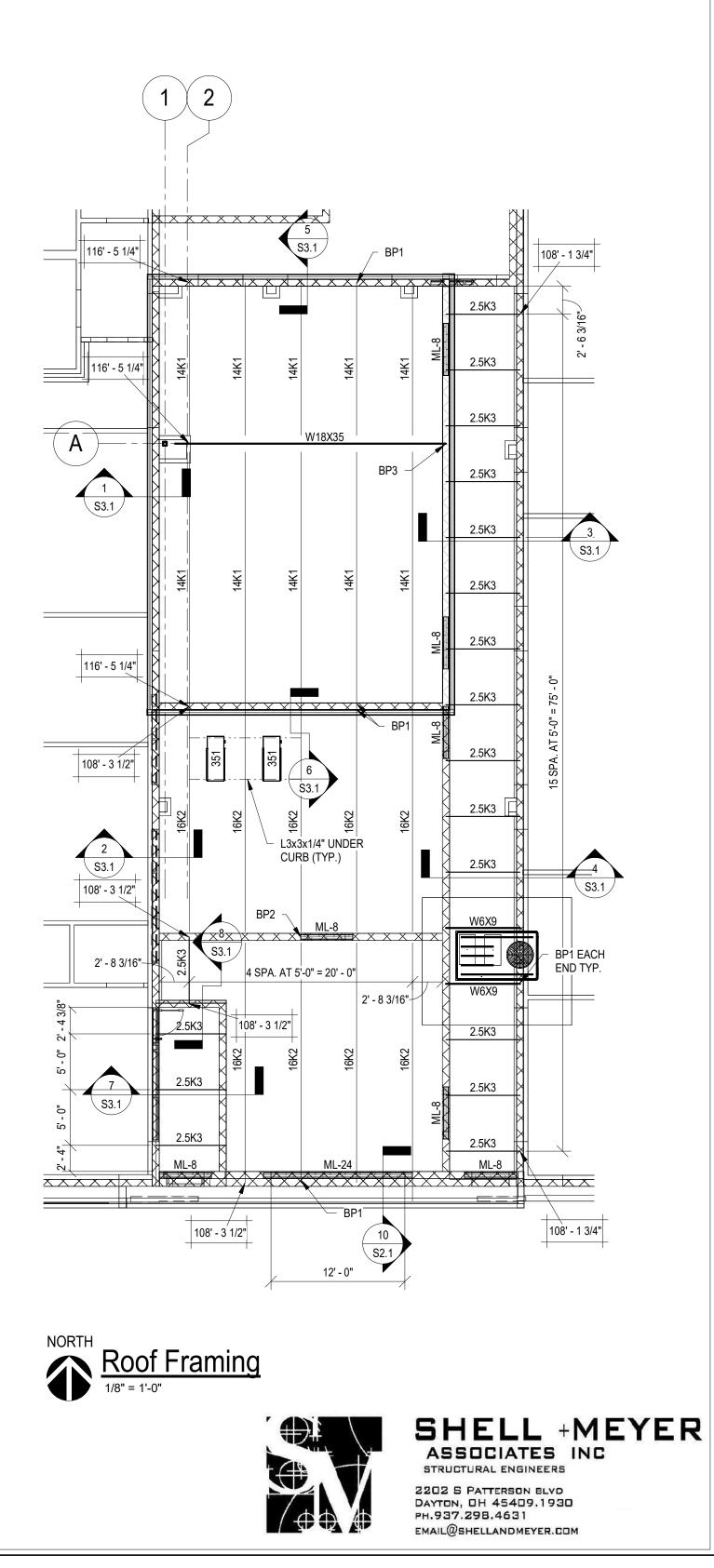
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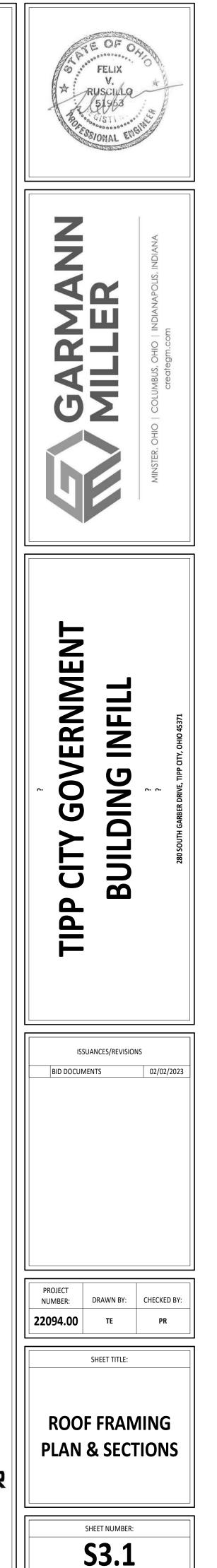
CMU LINTEL SCHEDULE										
MARK	WIDTH	HEIGHT	MIN. BRG.	BOTT. REINF.	TOP REINF.	SHEAR REINF.				
ML-8	MATCH WALL WIDTH	8"	8"	2-#5	-	NOT REQ'D.				
ML-24	MATCH WALL WIDTH	24"	8"	2-#6	2-#4	NOT REQ'D.				

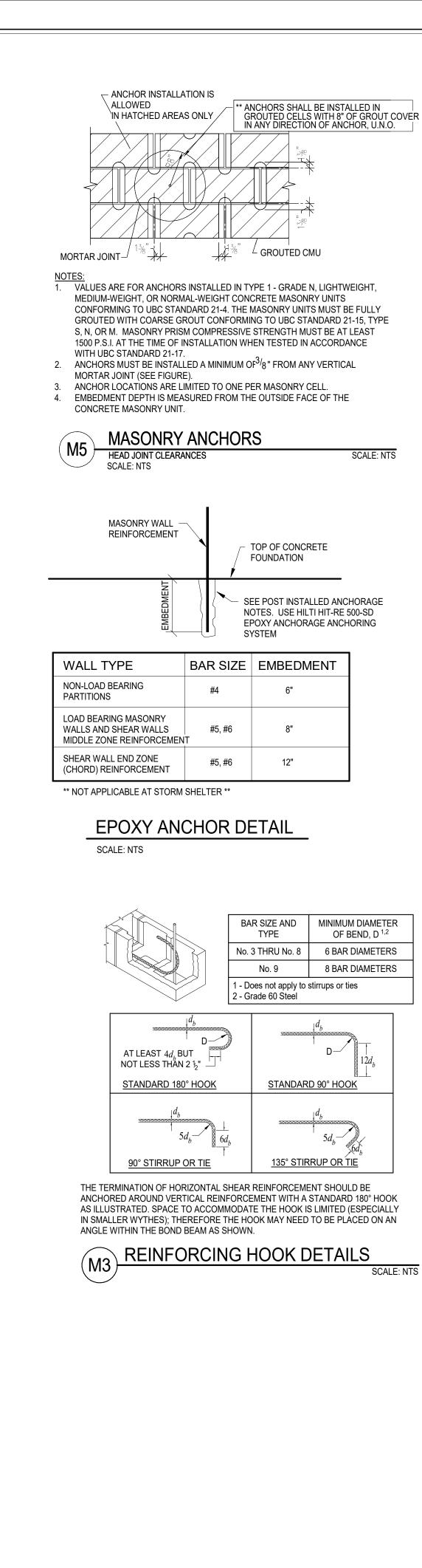
REINFORCING TO EXTEND MIN. LAP SPLICE LENGTH BEYOND OPENING
 SEE PLAN FOR MASONRY OPENING

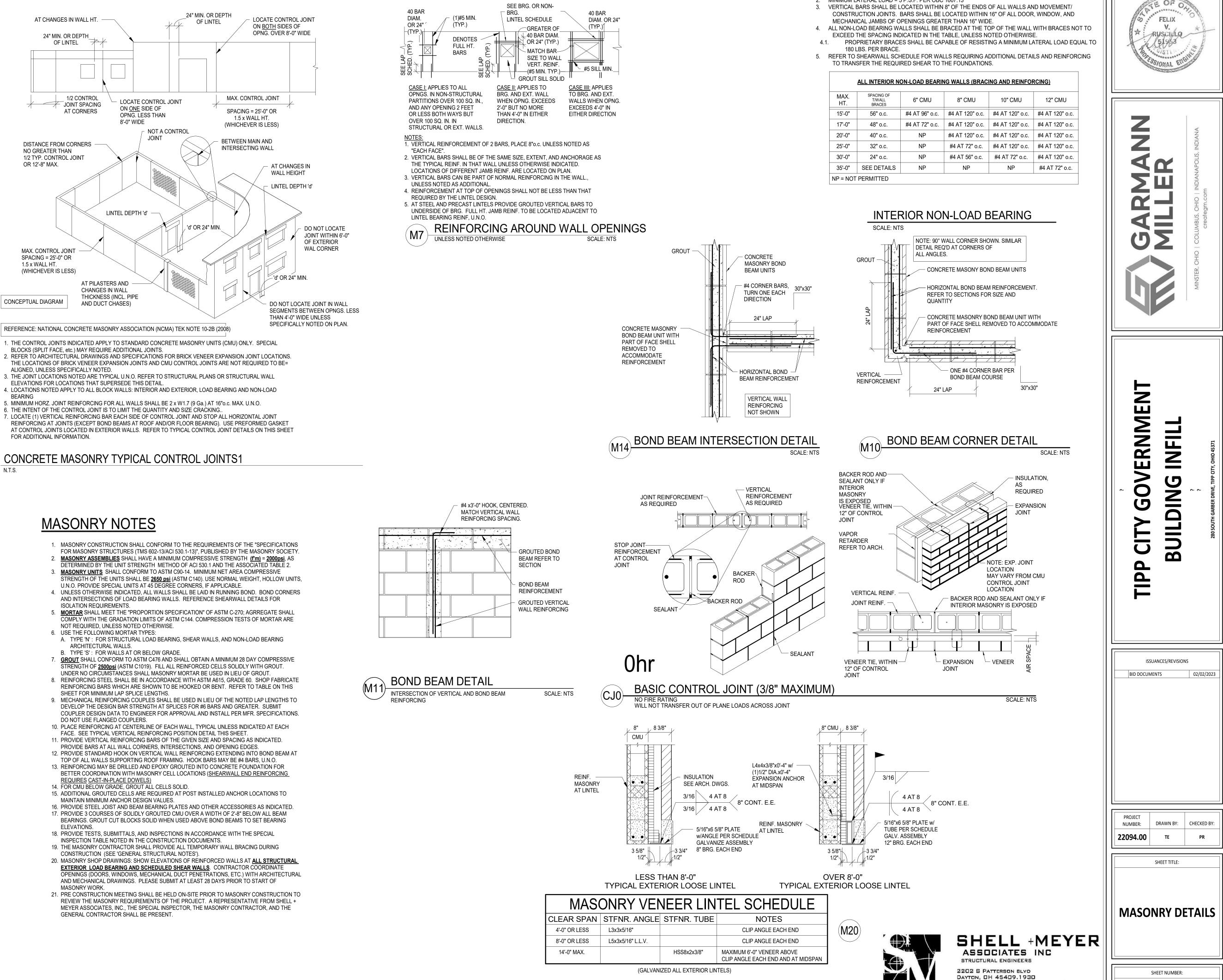
BEARING PLATE SCHEDULE								
MARK	SIZE	STUD DIA.	STUD LENGTH	STUD QUANTITY				
BP1	1/2"x5"x10"	1/2"	0'-8"	2				
BP2	1/2"x8 1/2"x10"	1/2"	0'-8"	2				
BP3	3/4"x5"x12"	1/2"	0'-8"	2				
BP4	3/4"x7 1/2"x24"	1/2"	0'-8"	3				

BEARING PLATES GREATER THAN 1/2" PROVIDE (2)#5 IN CMU WALL FULL HGT. GROUT IN SOLID. USE (3) #5 AT BP4









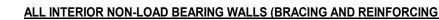
- BLOCKS (SPLIT FACE, etc.) MAY REQUIRE ADDITIONAL JOINTS.
- ALIGNED, UNLESS SPECIFICALLY NOTED. ELEVATIONS FOR LOCATIONS THAT SUPERSEDE THIS DETAIL.
- BFARING
- FOR ADDITIONAL INFORMATION.

# N.T.S.

NON LOAD BEARING PARTITIONS - (INTERIOR WALLS U.N.O.)

1. REFER TO SCHEDULE BELOW FOR NON-LOAD BEARING WALL REINFORCING:

- MINIMUM LATERAL LOAD = 5 P.S.F. PER OBC 1607.13



MAX. HT.	SPACING OF T/WALL BRACES	6" CMU	8" CMU	10" CMU	12" CMU
15'-0"	56" o.c.	#4 AT 96" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
17'-0"	48" o.c.	#4 AT 72" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
20'-0"	40" o.c.	NP	#4 AT 120" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
25'-0"	32" o.c.	NP	#4 AT 72" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
30'-0"	24" o.c.	NP	#4 AT 56" o.c.	#4 AT 72" o.c.	#4 AT 120" o.c.
35'-0"	SEE DETAILS	NP	NP	NP	#4 AT 72" o.c.
NP = NOT	PERMITTED				

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- NOTE:	ABBREVIATIONS USED ON THE	F	DEGREES FAHRENHEIT
	CONTRACT DOCUMENTS,	FCO	FLOOR CLEAN OUT
	INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW.	FD	FLOOR DRAIN/FIRE DAMPER
		FDV FHC	FIRE DEPARTMENT VALVE
- CHARACTE	- 	FL	FLOOR
& Ø	AND DIAMETER/ROUND	FLEX	FLEXIBLE
¢	DIAMETER/ROOND	FLG FO	FLANGE
A		FO	FUEL OIL FUEL OIL RETURN
A	AIR	FOS	FUEL OIL SUPPLY
AB ABV	ABOVE BASE ABOVE	FOV	FUEL OIL VALVE
AC	AIR CONDITIONING	FPM FRP	FEET PER MINUTE FIBERGLASS REINFORCED PIP
ACOUS	ACOUSTICAL	FS	FULL SIZE/FLOOR SINK
AD ADD		FT	FOOT/FEET
ADD	ADDENDUM ADDITIONAL	FTG	FOOTING
AFF	ABOVE FINISHED FLOOR	FTR FUT	FIN TUBE RADIATION
AFUE	ANNUAL FUEL UTILIZATION		
AG	EFFICIENCY ABOVE GROUND	G	
ALT	ALTERNATE	GA	GAGE/GAUGE
AP	ACCESS PANEL	GAL GALV	GALLON GALVANIZED
APPROX		GC	GENERAL CONTRACTOR
ARCH AUTO	ARCHITECT/ARCHITECTURAL AUTOMATIC	GEN	GENERATOR
AV	ACID RESISTANT VENT	GENL	GENERAL
AW	ACID RESITANT WASTE	GPM GR	GALLONS PER MINUTE
D		GW	GREASE WASTE
B BFF	BELOW FINISHED FLOOR		
BLDG	BUILDING	Н	
BLW	BELOW	HB HD	HOSE BIB HEAD
BO	BY OTHER	HORZ	HORIZONTAL
BOT BSMT	BOTTOM BASEMENT	НР	HORSE POWER/HIGH PRESSU
BTU	BRITISH THERMAL UNITS	HTG	HEATING
BTUH	BRITISH THERMAL UNITS PER	HTR HW	HEATER HOT WATER
BTWN	HOUR BETWEEN	HYD	HYDRANT
	DETWEEN		
С			
САР	CAPACITY	ID IN	INDIRECT INCH
CB CCW	CATCH BASIN COUNTER CLOCKWISE	INL	INLET
CFCV	CONSTANT FLOW CONTROL	INSUL	INSULATION
	VALVE	INT	
CFM	CUBIC FEET PER MINUTE	INV INWG	INVERT INCHES WATER GAUGE
CHW CI	CIRCULATING HOT WATER		
CLG	CEILING/COOLING	J	
CO	CLEAN OUT	JST SPC	JOIST SPACE
COL COMB	COLUMN	TL	JOINT
CONC	CONCRETE	L	
COND	CONDENSATE	LAB	LABORATORY
CONF	CONFERENCE	LAT LB	LEAVING AIR TEMPERATURE POUND
CONN CONST	CONNECT	LB/HR	POUNDS PER HOUR
CONT	CONTINUE/CONTINUATION	LF	LINEAL FOOT
CONTR	CONTRACT/CONTRACTOR	LP	LOW PRESSURE
COORD	COORDINATE	LPG LR	LIQUEFIED PERTOLEUM GAS
CTR CUFT	CENTER CUBIC FEET	LR LVR	LOUVER
CV	CHECK VALVE	LWT	LEAVING WATER TEMPERATI
CW	COLD WATER		
CW	CLOCKWISE	M M/A	MIXED AIR
D		MAN	MANUAL
D	DEGREE	MATL	MATERIAL
DB	DRY BULB	MAV	MANUAL AIR VENT
DET		MAX MBD	MAXIMUM MOTORIZED BYPASS DAMPE
DI DIA	DEIONIZED WATER DIAMETER	MBH	ONE THOUSAND BTU PER HO
DISCH	DISCHARGE	MCF	ONE THOUSAND CUBIC FEET
DIV	DIVISION	MCW	MAKE-UP COLD WATER
DMPR	DAMPER	MD MECH	MOTORIZED DAMPER
DN DW	DOWN DISTILLED WATER	MECH MFR	MECHANICAL
DW DWG	DRAWING	МН	MANHOLE
-		MIN	MOTORIZED BYPASS DAMPE
E	1	MISC	MISCELLANEOUS
E/A	EXHAUST AIR	MTR MU/A	MOTOR MAKE-UP/AIR
EA EAT	EACH ENTERING AIR TEMPERATURE		
EL	ELBOW	N	
ELEC	ELECTRICAL	Ν	NECK
ELEV	ELEVATION	NC	NOISE CRITERIA/NORMALLY CLOSED
EP	EXPLOSION PROOF	NIC	NOT IN CONTRACT
eq Equip	EQUAL EQUIPMENT	NO	NUMBER/NORMALLY OPEN
EQUIP	ELECTRIC WATER COOLER	NOM	NOMINAL
EWT	ENTERING WATER	NTS	NOT TO SCALE
	TEMPERATURE		
EXIST	EXISTING		
EXP	EXPANSION JOINT		

DIL DIL RETURN DIL SUPPLY DIL VALVE ER MINUTE SLASS REINFORCED PIPE IZE/FLOOR SINK FEET VG BE RADIATION E GAUGE N NIZED AL CONTRACTOR AL NS PER MINUTE E E WASTE 3IB DNTAL POWER/HIGH PRESSURE VATER NT	PD PIV PLBG PR PREL PRESS PRIM PRV PSI PSIG PW PWR R R R R R R R R R R R R R	PRESSURE DROPPOST INDICATOR VALVEPLUMBINGPAIRPAIRPRELIMINARYPRESSUREPRIMARYPRESSURE REDUCING VALPOUNDS PER SQUARE INCHGAUGEPOUNDS PER SQUARE INCHGAUGEPOTABLE WATERPOWERDUCT RISERRETURN AIRRADIANT CEILING PANELROOF DRAINRECESSEDREDUCERREFRIGERATIONREQUIREDREVERSERELATIVE HUMIDITYRELIEF AIRROOMREVOLUTIONS PER MINUTERAIN WATERSUPPLY AIRSANITARYSCHEDULE
DIL SUPPLY DIL VALVE ER MINUTE GLASS REINFORCED PIPE IZE/FLOOR SINK FEET NG BE RADIATION E GAUGE N NIZED AL CONTRACTOR ATOR AL NS PER MINUTE E E WASTE BIB DNTAL POWER/HIGH PRESSURE NG R VATER INT ATION	PLBG PR PREL PRESS PRIM PRV PSI PSIG PW PWR PWR PWR R R R R R R R R R R R R	PLUMBING         PAIR         PRELIMINARY         PRESSURE         PRIMARY         PRESSURE REDUCING VAL         POUNDS PER SQUARE INCH         GAUGE         POUNDS PER SQUARE INCH         GAUGE         POTABLE WATER         POWER         DUCT RISER         RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REDUCER         REVERSE         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER
DIL VALVE ER MINUTE GLASS REINFORCED PIPE IZE/FLOOR SINK FEET NG BE RADIATION E GAUGE N NIZED AL CONTRACTOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER .NT	PR PREL PRESS PRIM PRV PSI PSIG PSIG PW PWR PWR PWR R R R R R R R R R R R R	PAIRPRELIMINARYPRESSUREPRIMARYPRESSURE REDUCING VALPOUNDS PER SQUARE INCHPOUNDS PER SQUARE INCHGAUGEPOTABLE WATERPOWERDUCT RISERRETURN AIRRADIANT CEILING PANELROOF DRAINRECESSEDREDUCERREFRIGERATIONREQUIREDREVERSERELATIVE HUMIDITYRELIEF AIRROOMREVOLUTIONS PER MINUTERAIN WATER
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SLASS REINFORCED PIPE IZE/FLOOR SINK FEET NG BE RADIATION E GAUGE N NIZED AL CONTRACTOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER .NT CT	PRESS PRIM PRV PSI PSIG PSIG PW PWR PWR PWR R R R R R R R R R R R R	PRESSURE         PRIMARY         PRESSURE REDUCING VAL         POUNDS PER SQUARE INCH         GAUGE         POTABLE WATER         POWER         DUCT RISER         RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REDUCER         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER
FEET VG VG BE RADIATION E GAUGE N IJZED AL CONTRACTOR AL ONTRACTOR AL SPER MINUTE E E WASTE B JIB ONTAL POWER/HIGH PRESSURE VG R /ATER INT CT ATION	PRV PSI PSIG PW PWR PWR R R R/A RCP RD REC RED REFR REQD REFR REQD REV RH RL/A RM RPM RW S S S/A SAN SCHED SD	PRESSURE REDUCING VAL         POUNDS PER SQUARE INCH         GAUGE         POTABLE WATER         POWER         DUCT RISER         RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         REEUCER         REFRIGERATION         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER
NG BE RADIATION E GAUGE N NIZED AL CONTRACTOR ATOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER NT	PSI PSIG PW PWR PWR R R R R/A RCP RD REC RED REFR REQD REFR REQD REV RH RL/A RM RPM RW S S S/A SAN SCHED SD	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE POTABLE WATER POWER DUCT RISER RETURN AIR RADIANT CEILING PANEL ROOF DRAIN RECESSED REDUCER REFRIGERATION REQUIRED REVERSE RELATIVE HUMIDITY RELIEF AIR ROOM REVOLUTIONS PER MINUTE RAIN WATER SUPPLY AIR SANITARY
BE RADIATION E  GAUGE N GAUGE N NIZED AL CONTRACTOR ATOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R 'ATER INT CT ATION	PSIG PW PWR R R R/A RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S/A SAN SCHED SD	POUNDS PER SQUARE INCH         GAUGE         POTABLE WATER         POWER         DUCT RISER         RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REFRIGERATION         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER
E GAUGE N GAUGE N NIZED AL CONTRACTOR AL ONTRACTOR AL NS PER MINUTE E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER INT CT	PW PWR R R R/A RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S/A SAN SCHED SD	GAUGEPOTABLE WATERPOWERDUCT RISERRETURN AIRRADIANT CEILING PANELROOF DRAINRECESSEDREDUCERREFRIGERATIONREQUIREDREVERSERELATIVE HUMIDITYRELIEF AIRROOMREVOLUTIONS PER MINUTERAIN WATERSUPPLY AIRSANITARY
GAUGE N NIZED AL CONTRACTOR ATOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R 'ATER INT CT	PWR R R R/A RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S/A S/A SCHED SD	POTABLE WATER         POWER         DUCT RISER         RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REDUCER         REFRIGERATION         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
N NIZED AL CONTRACTOR ATOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER INT CT	R R/A RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S S/A SAN SCHED SD	DUCT RISER RETURN AIR RADIANT CEILING PANEL ROOF DRAIN RECESSED REDUCER REFRIGERATION REQUIRED REVERSE RELATIVE HUMIDITY RELIEF AIR ROOM REVOLUTIONS PER MINUTE RAIN WATER SUPPLY AIR SANITARY
N NIZED AL CONTRACTOR ATOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER INT CT	R R/A RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S S/A SAN SCHED SD	RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REDUCER         REFRIGERATION         REVERSE         RELATIVE HUMIDITY         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
NIZED AL CONTRACTOR ATOR AL NS PER MINUTE E E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER INT CT	R R/A RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S S/A SAN SCHED SD	RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REDUCER         REFRIGERATION         REVERSE         RELATIVE HUMIDITY         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
AL CONTRACTOR ATOR AL NS PER MINUTE E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER NT CT	R/A RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S S/A SAN SCHED SD	RETURN AIR         RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REDUCER         REFRIGERATION         REVERSE         RELATIVE HUMIDITY         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
ATOR AL NS PER MINUTE E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER INT CT	RCP RD REC RED REFR REQD REV RH RL/A RM RPM RW S S S/A SAN SCHED SD	RADIANT CEILING PANEL         ROOF DRAIN         RECESSED         REDUCER         REFRIGERATION         REQUIRED         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
NS PER MINUTE E WASTE E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER INT CT CT	REC RED REFR REQD REV RH RL/A RM RPM RW S S/A SAN SCHED SD	RECESSED         REDUCER         REFRIGERATION         REQUIRED         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
E WASTE E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER .NT CT ATION	RED REFR REQD REV RH RL/A RM RPM RW S S/A SAN SCHED SD	REDUCER         REFRIGERATION         REQUIRED         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
E WASTE BIB ONTAL POWER/HIGH PRESSURE NG R /ATER NT CT ATION	REFR REQD REV RH RL/A RM RPM RW S S/A S/A S/A SAN SCHED SD	REFRIGERATION         REQUIRED         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
BIB ONTAL POWER/HIGH PRESSURE NG R VATER INT CT CT	REQD REV RH RL/A RM RPM RW S S/A SAN SCHED SD	REQUIRED         REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
ONTAL POWER/HIGH PRESSURE NG R /ATER NT CT ATION	REV RH RL/A RM RPM RW S S/A SAN SCHED SD	REVERSE         RELATIVE HUMIDITY         RELIEF AIR         ROOM         REVOLUTIONS PER MINUTE         RAIN WATER         SUPPLY AIR         SANITARY
ONTAL POWER/HIGH PRESSURE NG R /ATER NT CT ATION	RL/A RM RPM RW S S/A SAN SCHED SD	RELIEF AIR ROOM REVOLUTIONS PER MINUTE RAIN WATER SUPPLY AIR SANITARY
POWER/HIGH PRESSURE NG R /ATER NT CT ATION	RM RPM RW S S/A SAN SCHED SD	ROOM REVOLUTIONS PER MINUTE RAIN WATER SUPPLY AIR SANITARY
POWER/HIGH PRESSURE NG R /ATER NT CT ATION	RPM RW S/A SAN SCHED SD	REVOLUTIONS PER MINUTE RAIN WATER SUPPLY AIR SANITARY
NG R /ATER /NT CT CT	RW S S/A SAN SCHED SD	RAIN WATER       SUPPLY AIR       SANITARY
R /ATER NT CT ATION	S S/A SAN SCHED SD	SUPPLY AIR SANITARY
NT CT ATION	S/A SAN SCHED SD	SANITARY
CT	SAN SCHED SD	SANITARY
ATION	SCHED SD	-
ATION	SD	
ATION		SMOKE DAMPER
		SECTION
	SF	SQUARE FOOT
OR	SHT	SHEET
-	SIM SLV	SIMILAR
r S WATER GAUGE	SM	SURFACE MOUNT
WATER GAOGE	SP	STANDPIPE/STATIC PRESSURE
	SPEC	SPECIFICATION
SPACE	SPS	STATIC PRESSURE STATION
	SQ SR	SQUARE SUCTION REFRIGERANT
		STAINLESS STEEL
ATORY	SSD	SOIL SUBDRAIN
IG AIR TEMPERATURE	STD	STANDARD
)	STM	STEAM
		STRUCTURAL SUCTION
	SUSP	SUSPENDED
FIED PERTOLEUM GAS		
REFRIGERANT	Т	
R		THERMOSTAT TEMPERATURE CONTROL PANEL
IG WATER TEMPERATURE	]	TEMPERATURE DROP
	TDR	TRENCH DRAIN
AIR	TEFC	TOTALLY ENCLOSED FAN
AL		COOLED
RIAL		TEMPERATURE TYPICAL
RIZED BYPASS DAMPER	U	
HOUSAND BTU PER HOUR	UFD	UNDER FLOOR DUCT
HOUSAND CUBIC FEET	UG	UNDERGROUNG
UP COLD WATER	v	
	V	VENT
FACTURER	VAV	VARIABLE AIR VOLUME
OLE	VEL	
RIZED BYPASS DAMPER		VENTILATION VERTICAL
	VOL	VOLUME
к UP/AIR	VTR	VENT THROUGH ROOF
	W I W	WACTE
		WASTE WET BULB
CRITERIA/NORMALLY D	WCO	WALL CLEAN OUT
L CONTRACT	WH	WALL HYDRANT
ER/NORMALLY OPEN		
	IG AIR TEMPERATURE D DS PER HOUR FOOT RESSURE FIED PERTOLEUM GAS REFRIGERANT R IG WATER TEMPERATURE AIR AL RIAL AL AIR VENT IUM RIZED BYPASS DAMPER HOUSAND BTU PER HOUR HOUSAND CUBIC FEET UP COLD WATER RIZED DAMPER ANICAL FACTURER OLE RIZED BYPASS DAMPER LLANEOUS R UP/AIR CRITERIA/NORMALLY D	SRATORYSSATORYSSDIG AIR TEMPERATURESTDDSTMDS PER HOURSTRUCTFOOTSUCTRESSURESUSPFIED PERTOLEUM GASTRTIG WATER TEMPERATURETDAIRTALTEFCALTEFCALTRIZED BYPASS DAMPERUHOUSAND BTU PER HOURUGUV COLD WATERVVVAVVELVELRIZED DAMPERVVUVAVVELVNICALVVOLVERTVOLVOLVOLVRRTVOLVRRTVOLVRRTVOLVOLVOLVRRTVOLVRRTCRITERIA/NORMALLYWDWCO

OXYGEN

OUTSIDE AIR

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OVERFLOW

OVERFLOW ROOF DDRAIN

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OPNG

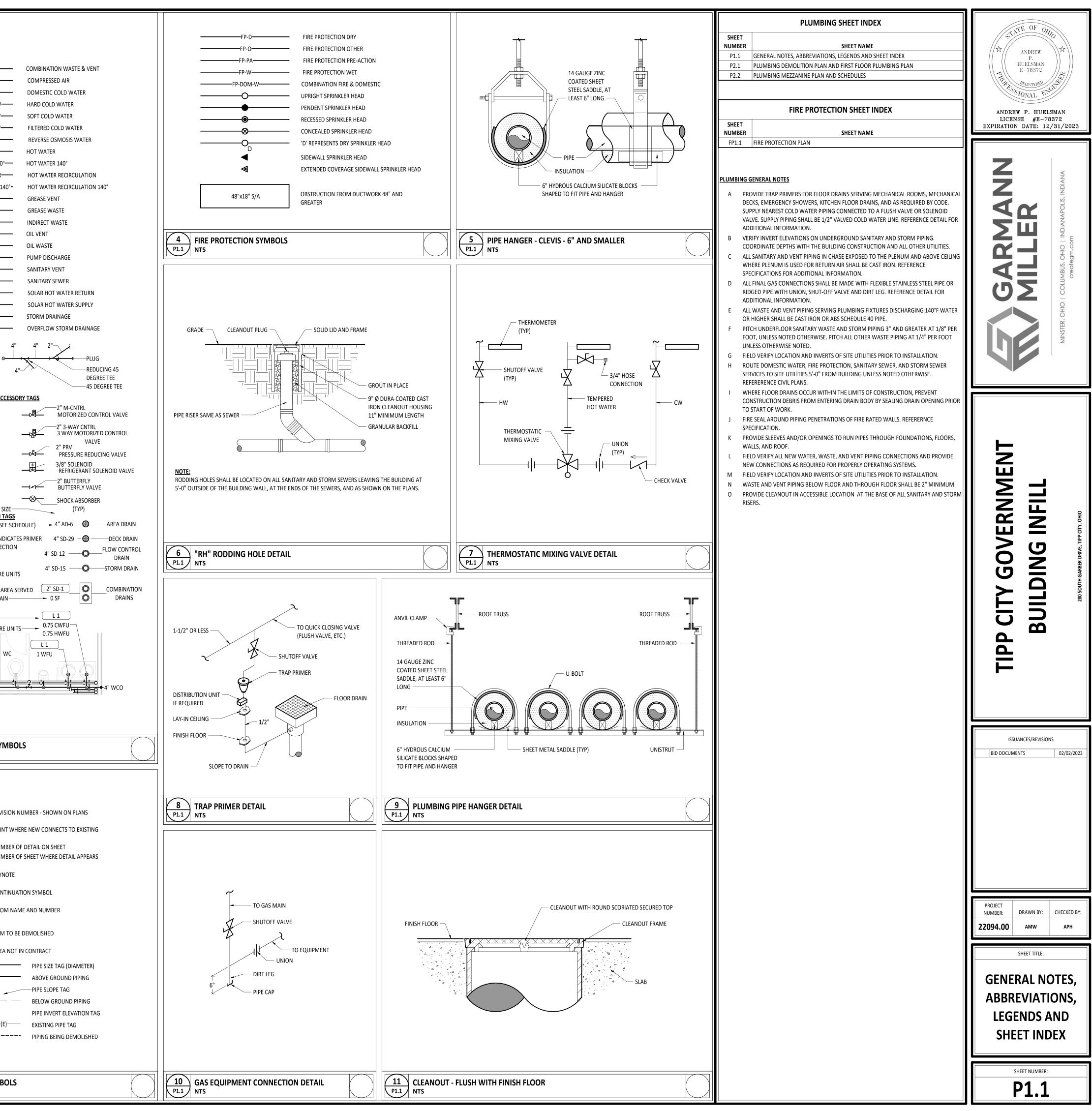
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	PD
	SS
	SHWR
	SD OSD
	PIPE DROP
	G PIPE RISE G
	сар
	PIPE ACC
	2" DOM. WM DOMESTIC WATER METER
	2" BALANCING BALANCING VALVE
	2" CHECK CHECK VALVE
	DRAIN SI DRAIN T
	FLOOR DRAIN
	FLOOR SINK = 3" FS-3
	HUB DRAIN $ 3"$ FD-13 6 WFU $-$ FIXTURE
	ROOF AF
	BY DRAII
	TYPE (SEE SCHEDULE) FIXTURE WATER CLOSET -
	WALL HUNG - ADA - 17" WC-1 V
	PIPE ACCESORY
	4" WCO+ C->
	PLUMBING AND PIPING SYN
	POIN
	- NUM
	ROOI
	2"
	· · · · · · · · · · · · · · · · · · ·
	<u>1/8" / 12" SLOPE</u>
	INVERT: -10' - 1" (E
	· · · · · · · · · · · · · · · · · · ·
	<b>3</b> GENERAL PLUMBING SYMB
	P1.1 NTS

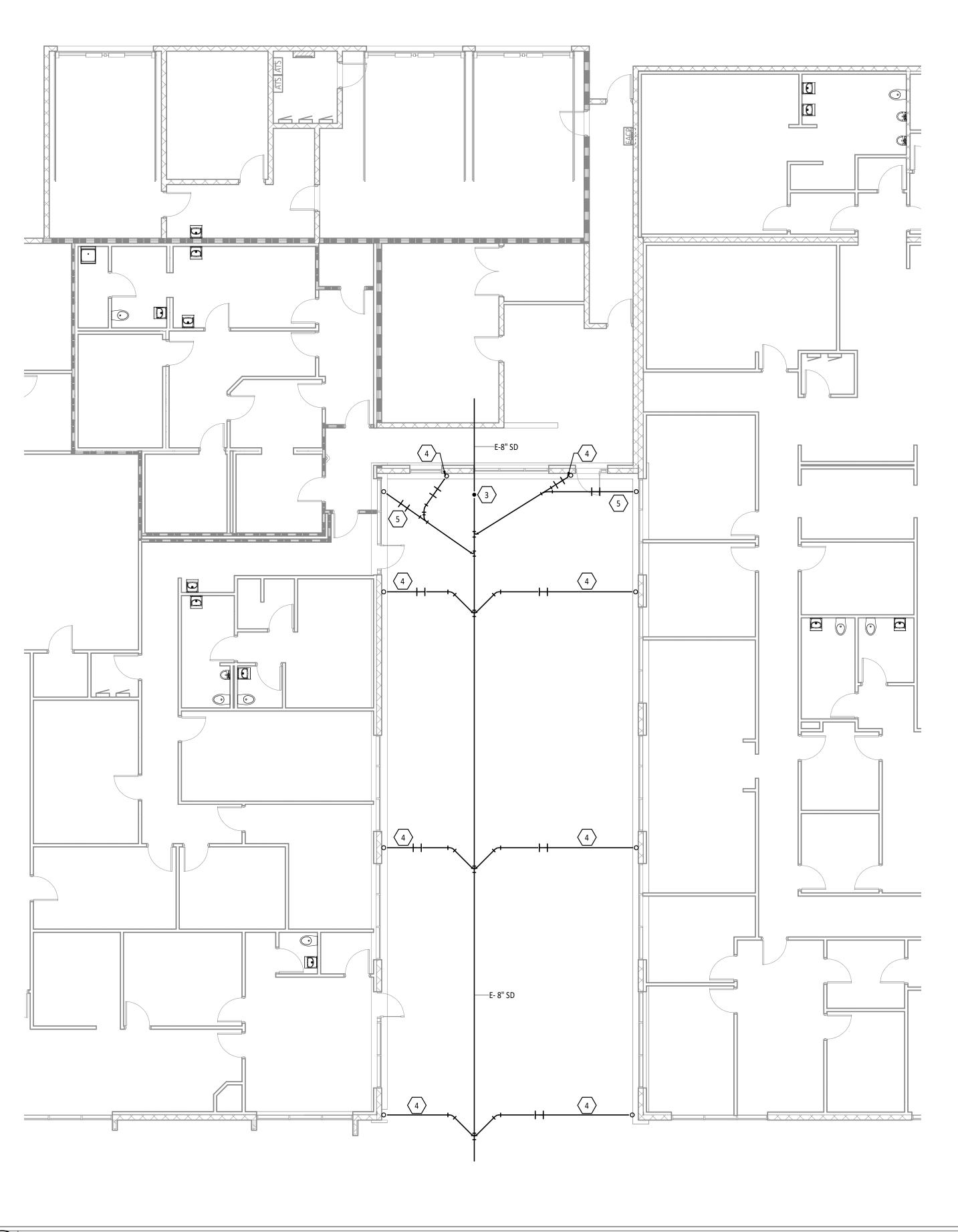
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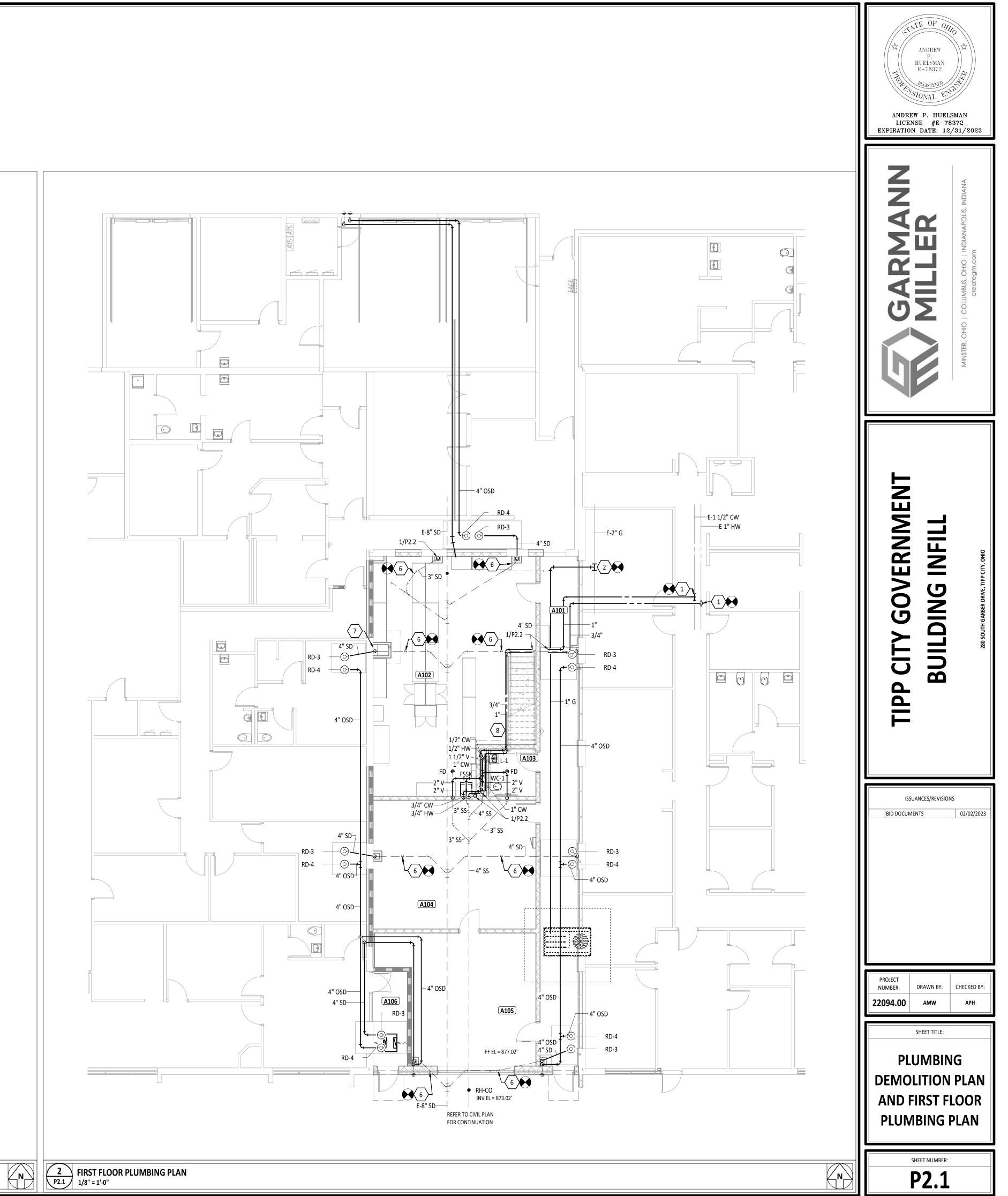
ABBREVIATIONS

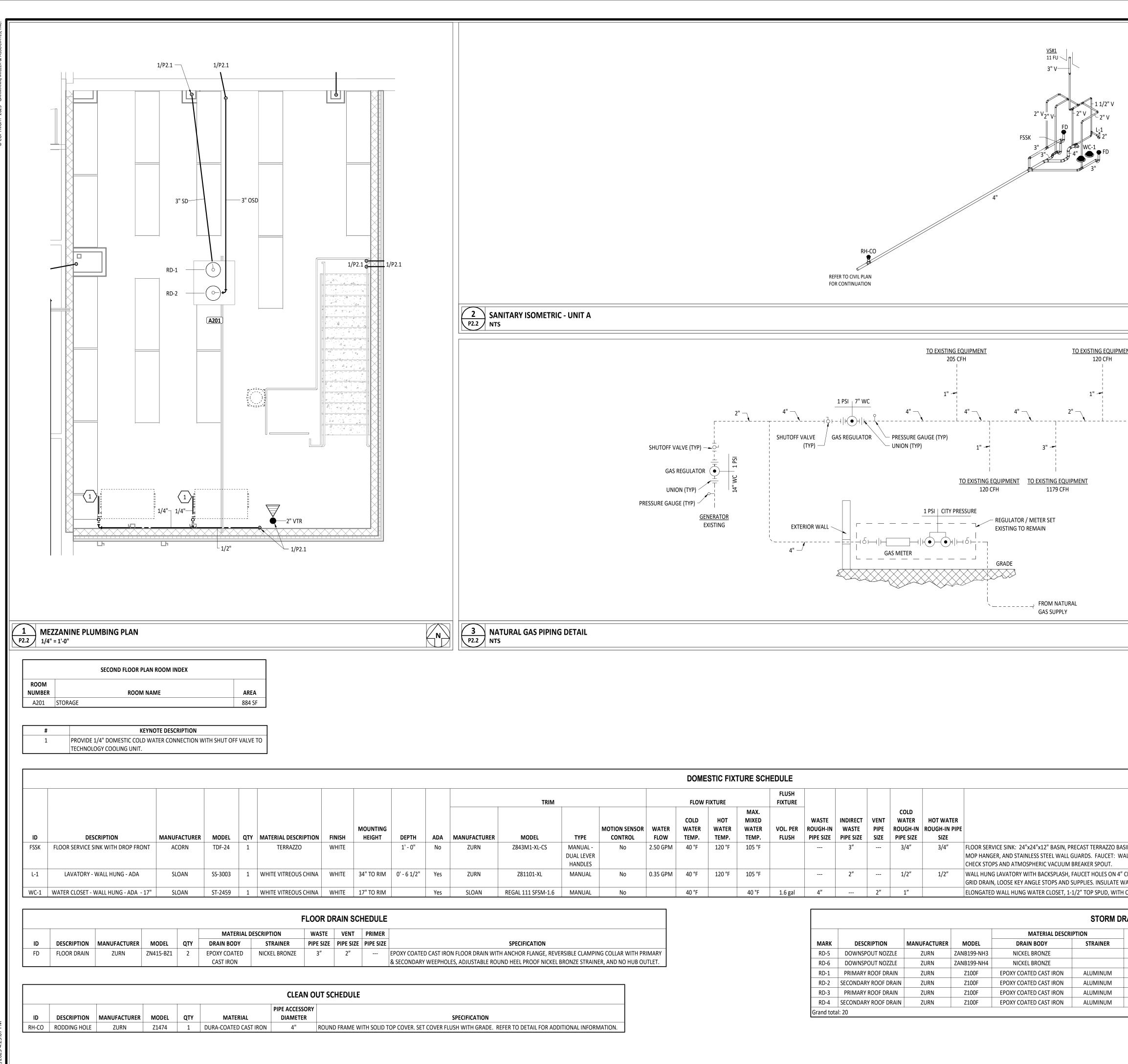
EXTERIOR



			#	KEYNOTE DESCRIPTION			
	FIRST FLOOR PLAN ROOM INDEX - UNIT A		1	CONNECT TO EXISTING DOMESTIC WATER SYSTEM IN THIS APPROXIMATE LOCATION.			
ROOM			2	CONNECT TO EXISTING GAS LINE IN THIS APPROXIMATE LOCATION.			
NUMBER	ROOM NAME	AREA	3	EXISTING CLEANOUT LOCATED IN THIS APPROXIMATE LOCATION. REWORK PIPE AND			
A101	CORRIDOR	456 SF		PROVIDE NEW CLEANOUT IN FINISHED FLOOR.			
A102	STORAGE	860 SF	4	EXISTING DOWNSPOUT AND FIRST PORTION OF EXISTING UNDERGROUND PIPING TO			
A103	RESTROOM	54 SF		BE REMOVED AND DISPOSED OF OFF SITE. EXISTING PIPE TO BE PREPARED FOR			
A104	SERVER ROOM	506 SF		RECONNECTION TO NEW ROOF DRAIN PIPING.			
A105	IT OFFICE	432 SF	5	EXISTING DOWNSPOUT AND FIRST PORTION OF EXISTING UNDERGROUND PIPING TO			
A106	CORRIDOR	79 SF		BE REMOVED AND DISPOSED OF OFF SITE. EXISTING PIPE TO BE CAPPED AND			
A107	OFFICE	161 SF		ABANDONED IN PLACE.			
A108	OFFICE	166 SF	6	NEW DOWNSPOUT TO CONNECT TO EXISTING UNDERGROUND STORM LINE IN THIS APPROXIMATE LOCATION.			
			7	EXISTING PIPE LOCATED IN THIS APPROXIMATE LOCATION TO BE VERIFIED. MODIFY AS NEEDED AND CONCEAL WITHIN NEW CHASE.			
			8	ROUTE DOMESTIC WATER LINES TIGHT TO STRUCTURE TO AVOID LIFT OPENING.			







TRIM						FLUSH FIXTURE												
	ТҮРЕ	MOTION SENSOR CONTROL	WATER FLOW	COLD WATER TEMP.	HOT WATER TEMP.	MAX. MIXED WATER TEMP.	VOL. PER FLUSH	WASTE ROUGH-IN PIPE SIZE	INDIRECT WASTE PIPE SIZE	VENT PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATEF ROUGH-IN PI SIZE						
L-CS	MANUAL - DUAL LEVER HANDLES	No	2.50 GPM	40 °F	120 °F	105 °F			3″		3/4"	3/4"	MOP HANG	FLOOR SERVICE SINK: 24"x24"x12" BASIN, PRECAST TERRAZZO BA MOP HANGER, AND STAINLESS STEEL WALL GUARDS. FAUCET: V CHECK STOPS AND ATMOSPHERIC VACUUM BREAKER SPOUT.				
ΧL	MANUAL	No	0.35 GPM	40 °F	120 °F	105 °F			2"		1/2"	1/2"		WALL HUNG LAVATORY WITH BACKSPLASH, FAUCET HOLES ON 4" CE GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WA				
SM-1.6	MANUAL	No		40 °F		40 °F	1.6 gal	4″		2″	1″		ELONGATED WALL HUNG WATER CLOSET, 1-1/2" TOP SPUD, WITH C					
														MATERIAL DESCRI	STORM I			
ON								MARK	DESCRIPTION		MAN	JFACTURER	MODEL	DRAIN BODY	STRAINER	DI		
IGE, REVE	ERSIBLE CLAMPIN	IG COLLAR WITH PR	IMARY					RD-5	DOWNSPOUT NOZZLE		'LE	ZURN Z	ANB199-NH3	NICKEL BRONZE				
F NICKEL	BRONZE STRAIN	ER, AND NO HUB OL	JTLET.					RD-6	DOWNSP	OUT NOZZ	ïLE	ZURN Z	ANB199-NH4	NICKEL BRONZE				
								RD-1	PRIMARY	ROOF DRA	AIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM			
								RD-2	SECONDAR	Y ROOF DF	RAIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM			
								RD-3	PRIMARY	ROOF DRA	AIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM			
								RD-4	SECONDAR	Y ROOF DE	RAIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM			
								Grand tota	al· 20									

	ANDREW P. HUELSMAN E-78372 MEGRETERED ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023
MENT RTU-A101 93 CFH	MILLER         MILLER         MISTER, OHIO   INDIANDIS, INDIAND         Tradegm.com
2° TO EXISTING EQUIPMENT 300 CFH	TIPP CITY GOVERNMENT BUILDING INFILL Isosoth Garber Dink, Tipp City, Ohd
SPECIFICATION ASIN, 3" DRAIN BODY WITH STAINLESS STELE STRAINER, 3" DRAIN AND CAST IRON TRAP, VINYL BUMPER GUARD, HOSE, HOSE BRACKET, VALL MOUNTED, VANDAL RESISTANT COLOR CODED LEVER HANDELS, 6" SPOUT, WALL BRACE, PAIL HOOK, INTEGRAL SERVICE STOPS, "CENTERS. DECK-MOUNTED FAUCET WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT. H CHURCH 29SCT ELONGATED OPEN FRONT SEAT, CARRIER, UITRA LOW CONSUMPTION. INSTALL AT ADA COMPLIANT HEIGHT.  PRAIN SCHEDULE  PIPE DOWNSPOUT NOZZLE FOR SECONDARY ROOF DRAIN, NO HUB CONNECTION, REMOVEABLE STAINLESS STELE SCREEN. DOWNSPOUT NOZZLE FOR SECONDARY ROOF DRAIN, NO HUB CONNECTION, REMOVEABLE STAINLESS STELE SCREEN. 3" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HU	ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023

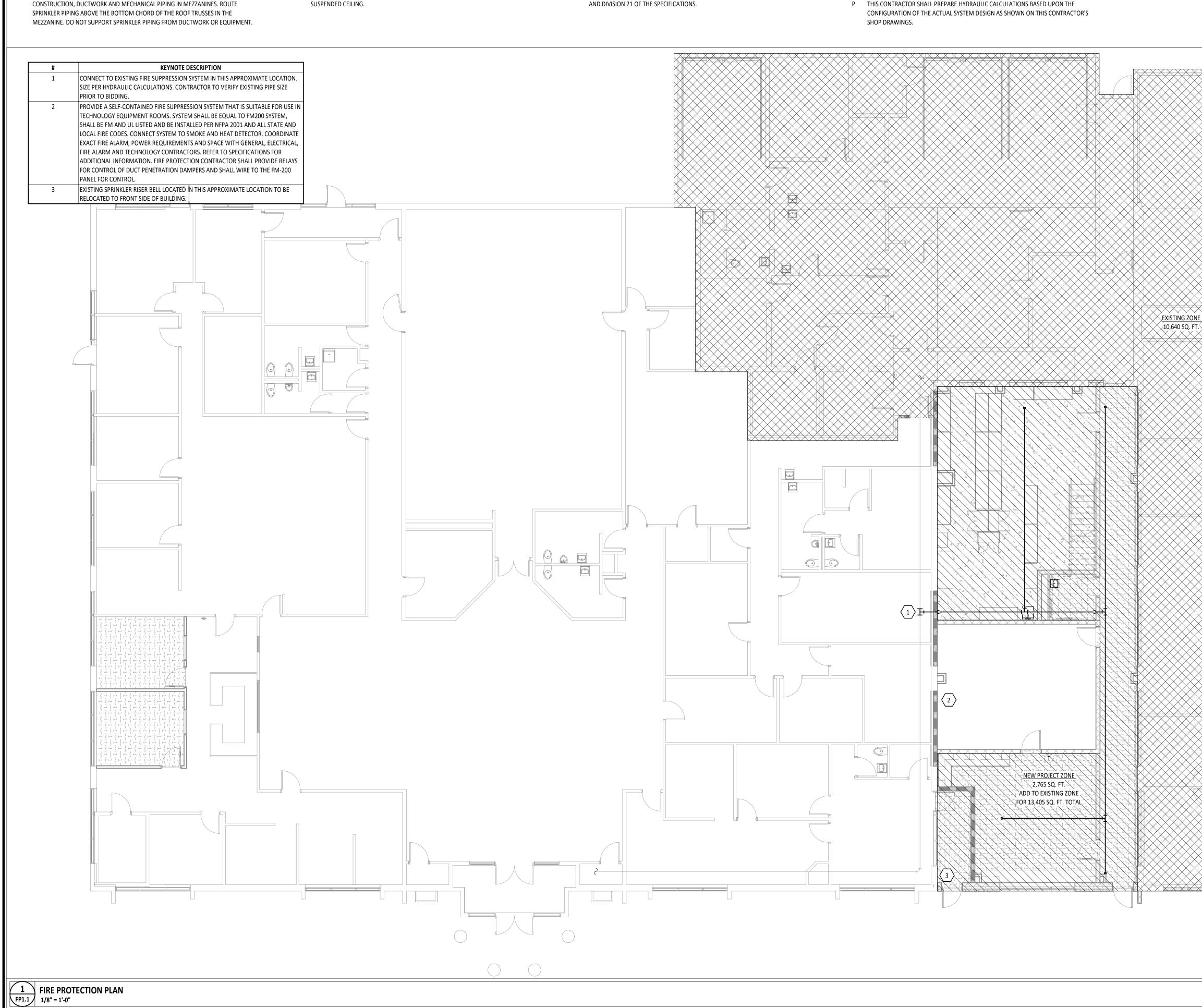
#### **IRE PROTECTION GENERAL NOTES**

- PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO DIVISION 21 SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- SPRINKLER PIPING SERVING EXPOSED AREAS SHALL BE ROUTED AS HIGH AS POSSIBLE. SPRINKLER PIPING SHALL BE ROUTED ABOVE THE BOTTOM CHORD OF THE ROOF TRUSSES. COORDINATE ROUTING OF SPRINKLER PIPING WITH BUILDING CONSTRUCTION, DUCTWORK, LIGHTING, AND ALL OTHER UTILITIES.
- PROVIDE BOLT OR SCREW FASTENED WIRE GUARDS FOR ALL SPRINKLER PIPES IN THE GYMNASIUMS AND MECHANICAL ROOMS.

D COORDINATE THE LOCATION OF SPRINKLER HEADS AND PIPING WITH BUILDING CONSTRUCTION, DUCTWORK AND MECHANICAL PIPING IN MEZZANINES. ROUTE SPRINKLER PIPING ABOVE THE BOTTOM CHORD OF THE ROOF TRUSSES IN THE

**FIRE PROTECTION GENERAL NOTES** 

- E FIRE PROTECTION SPRINKLER MAINS AND ZONES SHALL BE ROUTED AS DENOTED ON DRAWINGS. ANY ALTERNATE ROUTING MUST BE APPROVED BY THE ARCHITECT/ENGINEER. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING AND ROUTING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID
- CONFLICTS. F THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- G DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- H ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A



#### FIRE PROTECTION GENERAL NOTES

- AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
- J SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- K ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
- L PROVIDE A COMPLETE LIGHT HAZARD WET-TYPE SPRINKLER SYSTEM FOR ALL FIRE ZONES AS SHOWN ON THE DRAWINGS. PROVIDE ORDINARY HAZARD IN SPACE WHERE REQUIRED. INSTALL SPRINKLER SYSTEM PER NFPA 13, STATE AND LOCAL FIRE MARSHALL AND DIVISION 21 OF THE SPECIFICATIONS.

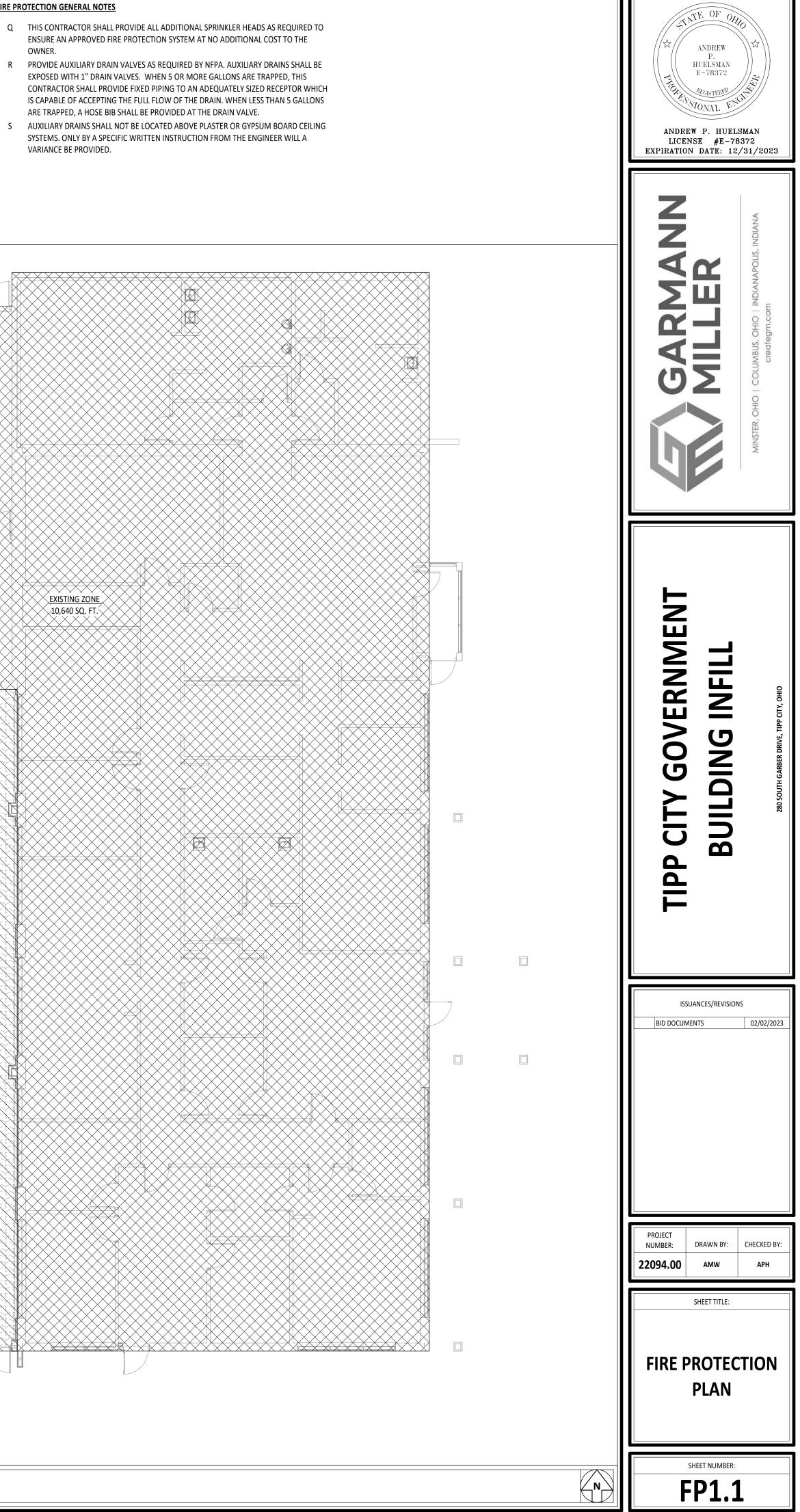
#### FIRE PROTECTION GENERAL NOTES

- M PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- N THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- O THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH ALL OTHER CONTRACTORS PRIOR TO STARTING WORK.
- P THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE
- OWNER.
- VARIANCE BE PROVIDED.

ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE

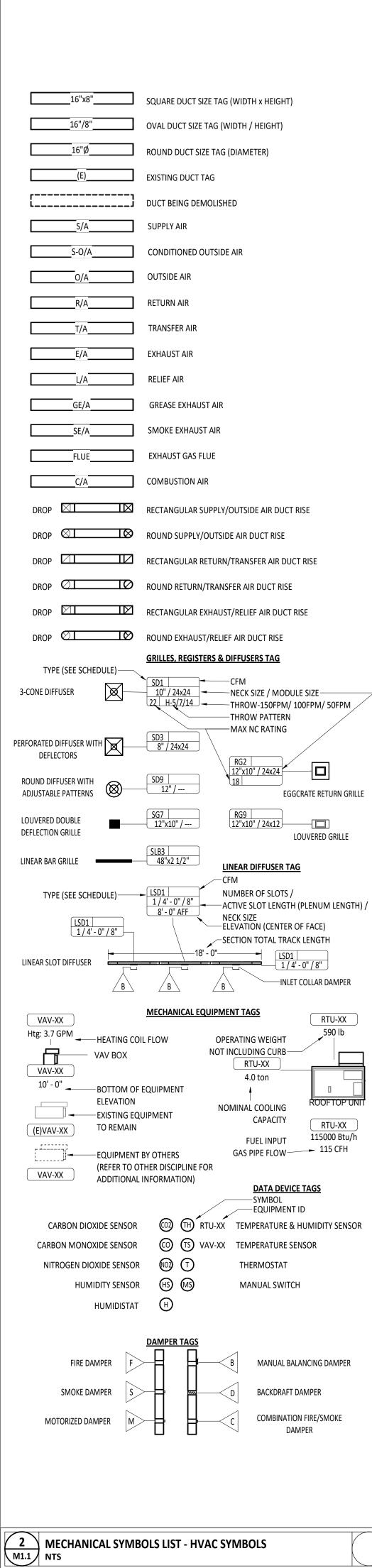
R PROVIDE AUXILIARY DRAIN VALVES AS REQUIRED BY NFPA. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A



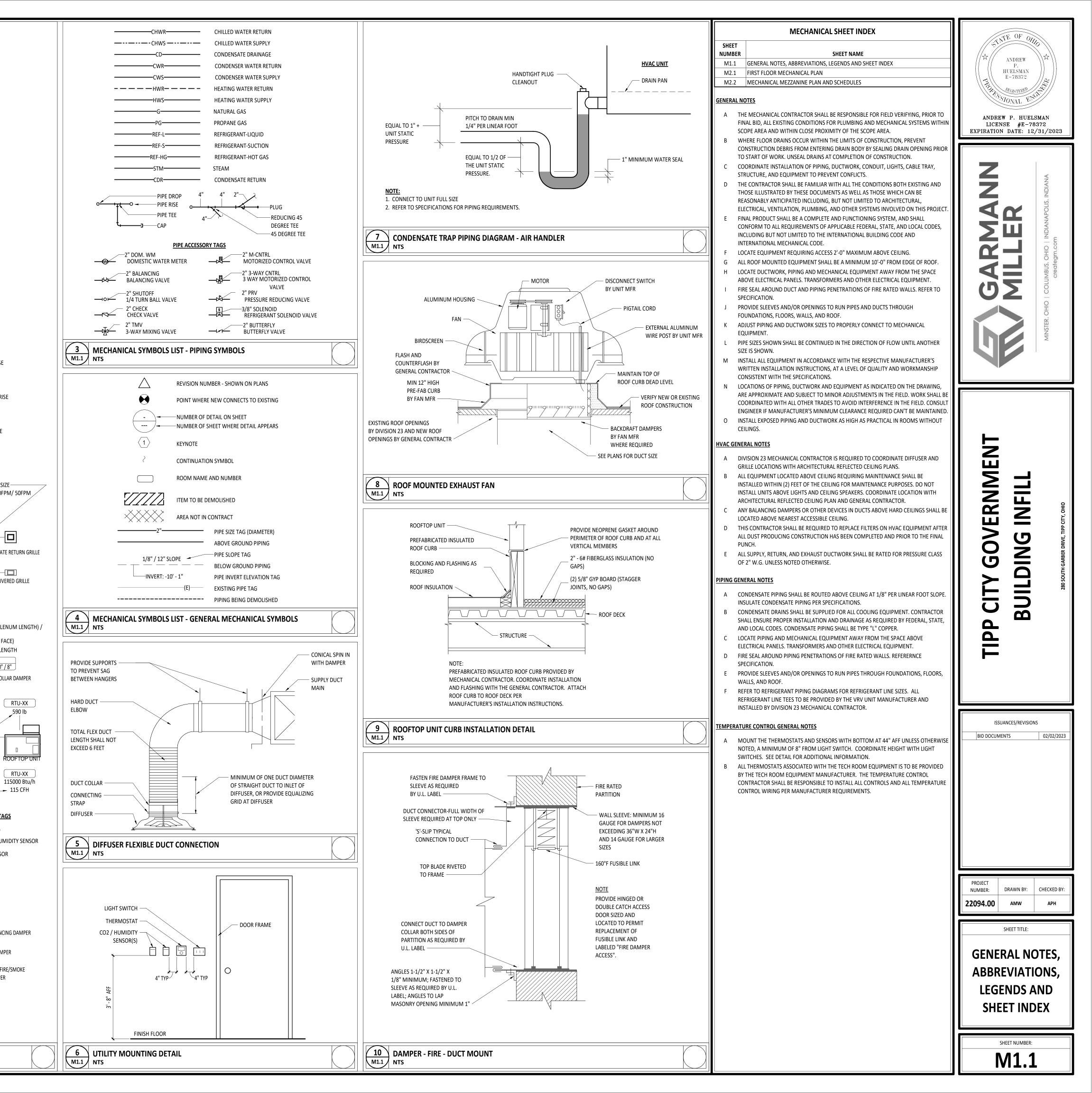
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&	AND ABBREVIATIONS SHOWN ON THIS SHEET AND	ID	INDIRECT
ø	AND ROUND	ID IN	INDIRECT INCH
A	AIR	INL	INLET
AB ABV	ABOVE BASE ABOVE	INSUL INT	INSULATION INTERIOR
AC	AIR CONDITIONING	INV	INVERT
ACOUS AD	ACOUSTICAL AREA DRAIN	INWG JST SPC	INCHES WATER GAUGE JOIST SPACE
ADD	ADDENDUM	JT	JOINT
ADDL		LAB	
AFF AFUE	ABOVE FINISHED FLOOR ANNUAL FUEL UTILIZATION EFFICIENCY	LB LB/HR	POUND POUNDS PER HOUR
AG	ABOVE GROUND	LAT	LEAVING AIR TEMPERATURE
ALT AP	ALTERNATE ACCESS PANEL	LF LP	LINEAL FOOT LOW PRESSURE
APPROX	APPROXIMATE	LPG	LIQUEFIED PETROLEUM GAS
ARCH AV	ARCHITECT/ARCHITECTURAL ACID RESISTANT VENT	LR LVR	
AV AW	ACID RESISTANT VENT	LVR LWT	LOUVER LEAVING WATER TEMPERATURE
AUTO	AUTOMATIC	M/A	MIXED AIR
BFF BLDG	BELOW FINISHED FLOOR BUILDING	MAN MATL	MANUAL MATERIAL
BLW	BELOW	MAV	MANUAL AIR VENT
BO BOT	BY OTHER BOTTOM	MAX MBD	MAXIMUM MOTORIZED BYPASS DAMPER
BSMT	BASEMENT	MBH	ONE THOUSAND BTU PER HOUR
BTU BTUH	BRITISH THERMAL UNITS BRITISH THERMAL UNITS PER HOUR	MCF MCW	ONE THOUSAND CUBIC FEET MAKE-UP COLD WATER
BTWN	BRITISH THERMAL UNITS PER HOUR BETWEEN	MD	MOTORIZED DAMPER
CAP	CAPACITY	MECH	MECHANICAL
CB CCW	CATCH BASIN COUNTER CLOCKWISE	MFR MH	MANUFACTURER MANHOLE
CFCV	CONSTANT FLOW CONTROL VALVE	MIN	MINIMUM
CFM CHW	CUBIC FEET PER MINUTE CIRCULATING HOT WATER	MISC MTR	MISCELLANEOUS MOTOR
CHW CI	CIRCULATING HOT WATER CAST IRON	MU/A	MOTOR MAKE-UP/AIR
CLG	CEILING	N	NECK
CLG CO	COOLING CLEAN OUT	NC NC	NOISE CRITERIA NORMALLY CLOSED
COL	COLUMN	NIC	NOT IN CONTRACT
COMB CONC	COMBINATION CONCRETE	NO NO	NUMBER NORMALLY OPEN
COND	CONDENSATE	NOM	NOMINAL
CONF	CONFERENCE	NTS	NOT TO SCALE
CONN CONST	CONNECT CONSTRUCTION	0 0/A	OXYGEN OUTSIDE AIR
CONT	CONTINUE/CONTINUATION	OC	ON CENTER
CONTR COORD	CONTRACT/CONTRACTOR COORDINATE	OF OPNG	OVERFLOW OPENING
CTR	CENTER	ORD	OVERFLOW ROOF DRAIN
CUFT		PD	PRESSURE DROP
CV CW	CHECK VALVE COLD WATER	PIV PLBG	POST INDICATOR VALVE PLUMBING
CW	CLOCKWISE	PR	PAIR
D DB	DEGREE DRY BULB	PREL PRESS	PRELIMINARY PRESSURE
DET	DETAIL	PRIM	PRIMARY
DIA DIAG	DIAMETER DIAGONAL	PRV PSI	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH
DISCH	DISCHARGE	PSIG	POUNDS PER SQUARE INCH GAUG
DIV	DIVISION	PW	POTABLE WATER
DI DMPR	DEIONIZED WATER DAMPER	PWR R	POWER DUCT RISER
DN	DOWN	R/A	RETURN AIR
DWG DW	DRAWING DISTILLED WATER	RCP RD	RADIANT CEILING PANEL ROOF DRAIN
EA	EACH	REC	RECESSED
EAT EL	ENTERING AIR TEMPERATURE ELBOW	RED REFR	REDUCER REFRIGERATION
ELEC	ELECTRICAL	RH	RELATIVE HUMIDITY
ELEV EP	ELEVATION EXPLOSION PROOF	REQD REV	REQUIRED REVERSE
EQ	EQUAL	RL/A	RELIEF AIR
EQUIP	EQUIPMENT	RM	ROOM
EWC EWT	ELECTRIC WATER COOLER ENTERING WATER TEMPERATURE	RPM RW	REVOLUTIONS PER MINUTE RAIN WATER
E/A	EXHAUST AIR	SF	SQUARE FOOT
EAH EXIST	EXHAUST HOOD EXISTING	S/A SAN	SUPPLY AIR SANITARY
EXP	EXPANSION	SCHED	SCHEDULE
EXPJT	EXPANSION JOINT	SECT	SECTION SOLIABE EQOT
EXT F	EXTERIOR DEGREES FAHRENHEIT	SF SD	SQUARE FOOT SMOKE DAMPER
FCO	FLOOR CLEAN OUT	SHT	SHEET
FD FD	FLOOR DRAIN FIRE DAMPER	SIM SLV	SIMILAR SLEEVE
FDV	FIRE DEPARTMENT VALVE	SM	SURFACE MOUNT
FHC FL	FIRE HOSE CABINET FLOOR	SP SP	STANDPIPE STATIC PRESSURE
FLEX	FLEXIBLE	SPEC	SPECIFICATION
FLG FO	FLANGE	SPS SO	STATIC PRESSURE STATION
FO FOV	FUEL OIL FUEL OIL VENT	SQ SR	SQUARE SUCTION REFRIGERANT
FOR	FUEL OIL RETURN	SSD	SOIL SUBDRAIN
FOS FPM	FUEL OIL SUPPLY FEET PER MINUTE	SS STD	SANITARY SEWER STANDARD
FRP	FIBERGLASS REINFORCED PIPE	STM	STEAM
FS FS	FULL SIZE FLOOR SINK	STRUCT SUCT	STRUCTURAL SUCTION
FS FT	FLOOR SINK FOOT/FEET	SUCT	SUCTION
FTG	FOOTING	Т	THERMOSTAT
FTR FUT	FIN TUBE RADIATION FUTURE	TCP TD	TEMPERATURE CONTROL PANEL TEMPERATURE DROP
GA	GAGE/GAUGE	TDR	TRENCH DRAIN
GAL	GALLON	TEFC	TOTALLY ENCLOSED FAN COOLED
GALV GC	GALVANIZED GENERAL CONTRACTOR	TEMP TYP	TEMPERATURE TYPICAL
GEN	GENERATOR	UFD	UNDER FLOOR DUCT
GENL GPH	GENERAL GALLONS PER MINUTE	UG VAC	UNDERGROUND VACUUM
GPH GR	GALLONS PER MINUTE GRADE	VAC V	VACUUM VENT
GW	GREASE WASTE	VAV	VARIABLE AIR VOLUME
HB HD	HOSE BIB HEAD	VEL VENT	VELOCITY VENTILATION
HORZ	HORIZONTAL	VERT	VERTICAL
-	HORSE POWER	VOL	
HP	HIGH DRECCLIRE	\/TD	
-	HIGH PRESSURE HEATING	VTR W	VENT THROUGH ROOF WASTE
HP HP			



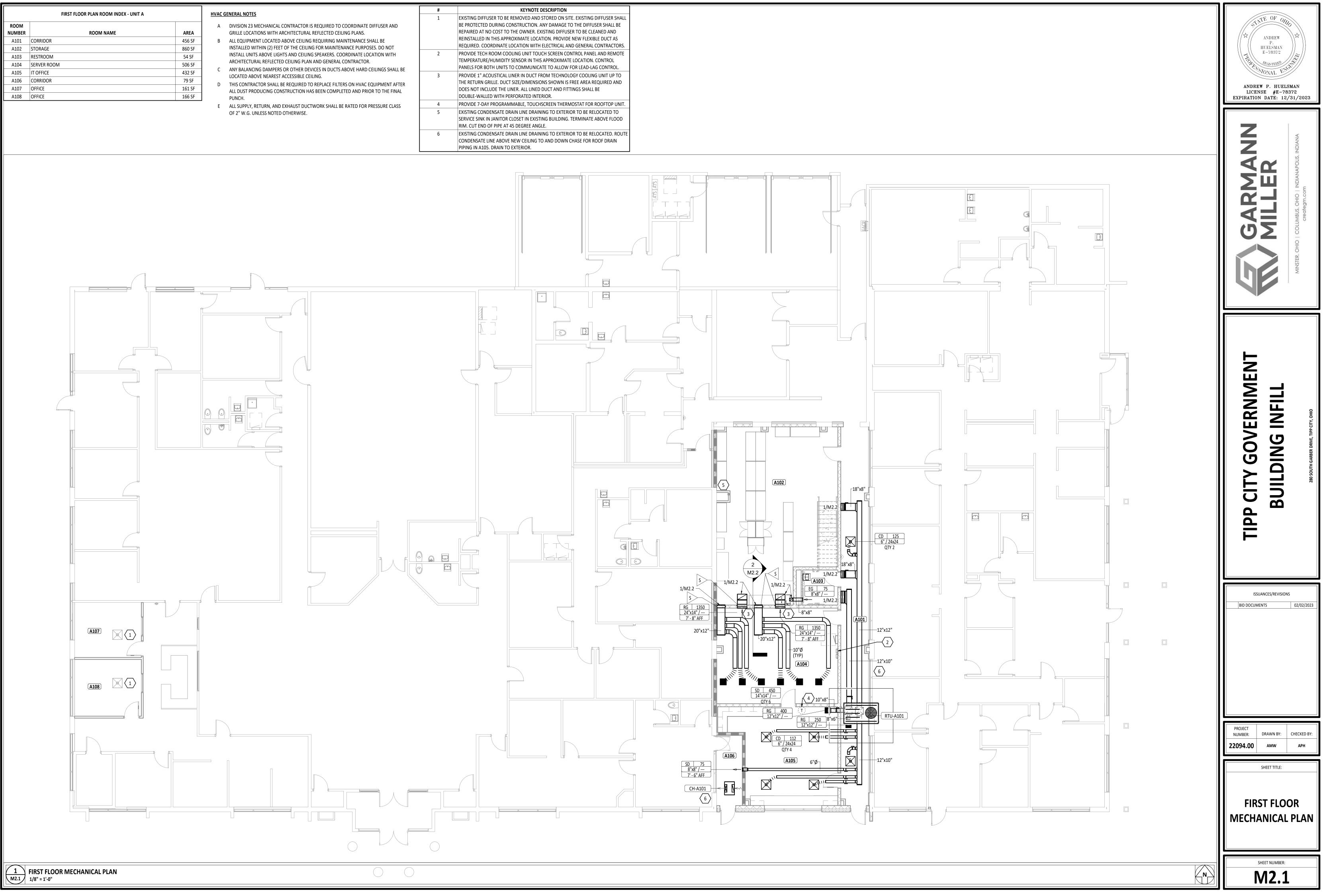
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1 MEC M1.1 NTS

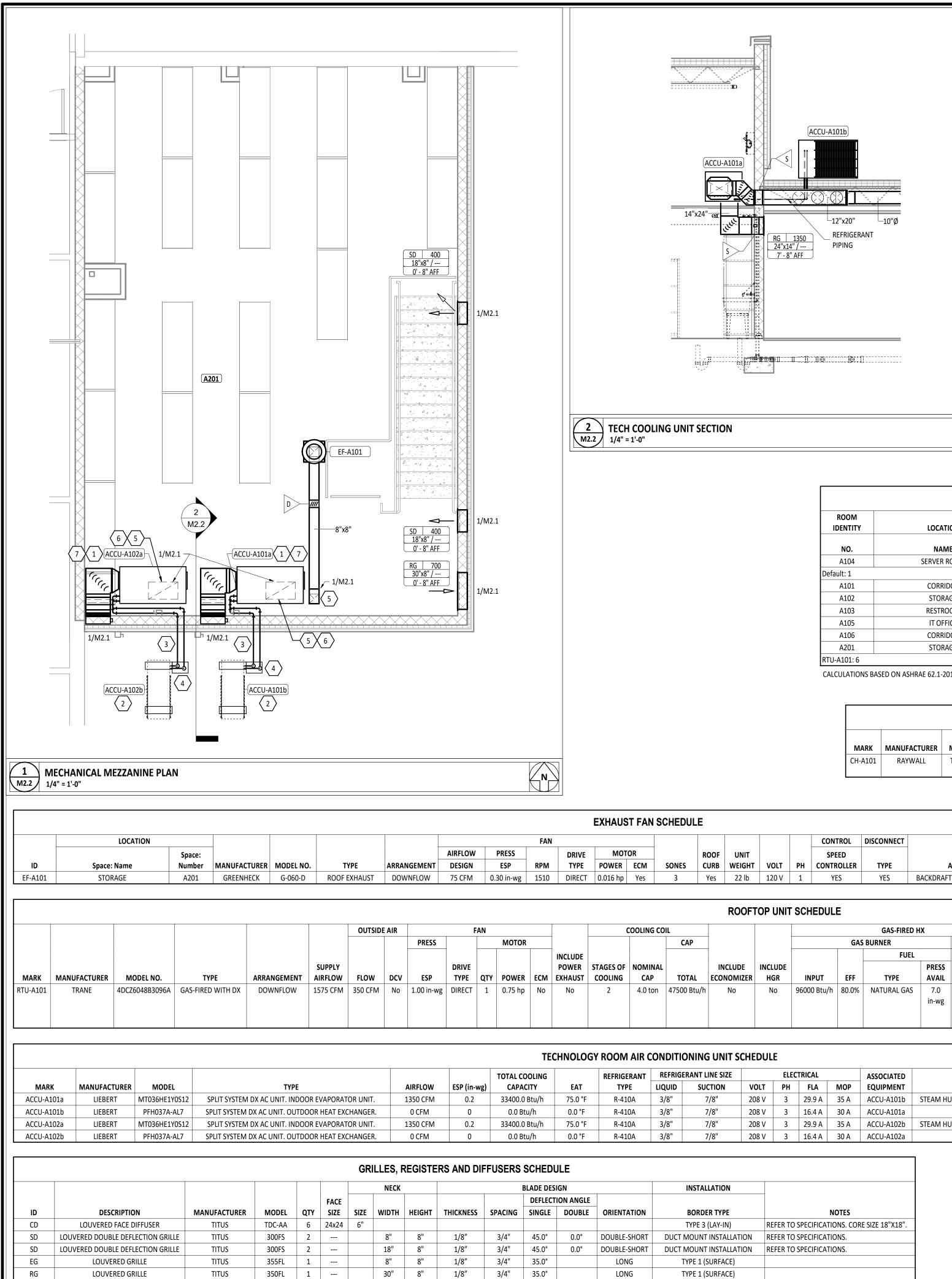


	FIRST FLOOR PLAN ROOM INDEX - UNIT A							
ROOM								
NUMBER	ROOM NAME	AREA						
A101	CORRIDOR	456 SF						
A102	STORAGE	860 SF						
A103	RESTROOM	54 SF						
A104	SERVER ROOM	506 SF						
A105	IT OFFICE	432 SF						
A106	CORRIDOR	79 SF						
A107	OFFICE	161 SF						
A108	OFFICE	166 SF						

- INSTALLED WITHIN (2) FEET OF THE CEILING FOR MAINTENANCE PURPOSES. DO NOT
- ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL







RG

RG

LOUVERED GRILLE

LOUVERED GRILLE

SD LOUVERED DOUBLE DEFLECTION GRILLE

TITUS

TITUS

TITUS

350FL 2 ---

300FS 6 ----

350FL 2 ----

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$\overline{\ }$		$\square$

		A	SHRAE 62.1	L VENTILAT	ION RATE P	ROCEDURE	SUMMARY			
ROOM IDENTITY	LOCATION	Occupancy		Selected Supply	Number of	Outdoor Airflow Rate Per Person,	Rate Per Unit	Distribution	Breathing Zone Outdoor	Required Outdoor Air Intake Flow,
NO.	NAME	Category	Area, Az	Airflow	People, Pz	Rp	Area, Ra	Effectiveness, Ez	Airflow, Voz	Vot
A104	SERVER ROOM	Non-Occupiable	506 SF		0					
Default: 1			506 SF	0 CFM	0				0 CFM	0 CFM
A101	CORRIDOR	Corridors	456 SF	250 CFM	0	0.0 CFM	0.06 CFM/SF	0.8	27 CFM	34 CFM
A102	STORAGE	Non-Occupiable	860 SF	400 CFM	0			0.8		
A103	RESTROOM	Toilets (public)	54 SF	0 CFM	0			0.8		
A105	IT OFFICE	Office space	432 SF	450 CFM	2	5.0 CFM	0.06 CFM/SF	0.8	36 CFM	45 CFM
A106	CORRIDOR	Corridors	79 SF	75 CFM	0	0.0 CFM	0.06 CFM/SF	0.8	5 CFM	6 CFM
A201	STORAGE	Non-Occupiable	884 SF	400 CFM	0			0.8		
RTU-A101: 6			2764 SF	1575 CFM	2				68 CFM	85 CFM

CALCULATIONS BASED ON ASHRAE 62.1-2016

					ELEC	TRIC CAB	INET HEA	TER SC	HEDULE		
					ELECTRIC	HEATING CO	DIL				
MARK	MANUFACTURER	MODEL NO.	TYPE	AIRFLOW	HEATING CAP.	EAT(db)	STAGES	FLA	VOLT	PH	REMARKS
CH-A101	RAYWALL	T33D04203	CEILING RECESSED	250 CFM	4 kW	60.0 °F	2	13 A	208 V	3	FRONT INLET & FRONT OUTLET, UNIT MOUNTED DIS STRUCTURE, UNIT TO BE THE COLOR WHITE

CHEDUL	E							
					CONTROL	DISCONNECT		
	ROOF	UNIT			SPEED			
SONES	CURB	WEIGHT	VOLT	PH	CONTROLLER	TYPE	ACCESSORIES	REMARKS
3	Yes	22 lb	120 V	1	YES	YES	BACKDRAFT DAMPER, BIRDSCREEN	AUTOMATIC OPERATION BY DIVISION 26 WITH ROOM LIGHTS.

L					GAS-FIRED H	Х				COMPRESS	OR			FILTER						
САР				GAS	BURNER		AIRS	SIDE	REFRI	GERANT										
	-				FUEL						LOW	SUMMER								
	INCLUDE	INCLUDE				PRESS					AMBIENT	AMBIENT			UNIT					
TOTAL	ECONOMIZER	HGR	INPUT	EFF	ТҮРЕ	AVAIL	EAT(db)	LAT(db)	TYPE	CHARGE	КІТ	DBT	SEER	EFF	WEIGHT	MCA	МОСР	VOLT	PH	REM
47500 Btu/h	No	No	96000 Btu/h	80.0%	NATURAL GAS	7.0	65.0 °F	95.0 °F	R410A	9 lb	Yes	95.0 °F	16	MERV-8	665 lb	25 A	35 A	208 V	3	PROVIDE WITH INSULA
						in-wg														MANUFACTURER'S REQU
																				PROGRAMMABLE THERMOS
																				TO PROVIDE

			-				
EFRIG	ERANT LINE SIZE		ELEC	TRICAL		ASSOCIATED	
UID	SUCTION	VOLT	PH	FLA	МОР	EQUIPMENT	REMARKS
/8"	7/8"	208 V	3	29.9 A	35 A	ACCU-A101b	STEAM HUMIDIFIER, MERV 8 FILTER BANK, 3/4" CONDENSATE DRAIN, 1/2" HUMIDIFIER CONNECTION, ELECTRIC REHEAT COIL.
/8"	7/8"	208 V	3	16.4 A	30 A	ACCU-A101a	
/8"	7/8"	208 V	3	29.9 A	35 A	ACCU-A102b	STEAM HUMIDIFIER, MERV 8 FILTER BANK, 3/4" CONDENSATE DRAIN, 1/2" HUMIDIFIER CONNECTION, ELECTRIC REHEAT COIL.
/8"	7/8"	208 V	3	16.4 A	30 A	ACCU-A102a	

	;								
	NECK				BLADE DES	GN		INSTALLATION	
					DEFLECT	ION ANGLE			
Ε	WIDTH	HEIGHT	THICKNESS	SPACING	SINGLE	DOUBLE	ORIENTATION	BORDER TYPE	NOTES
								TYPE 3 (LAY-IN)	REFER TO SPECIFICATIONS. CORE SIZE 18"X18".
	8"	8"	1/8"	3/4"	45.0°	0.0°	DOUBLE-SHORT	DUCT MOUNT INSTALLATION	REFER TO SPECIFICATIONS.
	18"	8"	1/8"	3/4"	45.0°	0.0°	DOUBLE-SHORT	DUCT MOUNT INSTALLATION	REFER TO SPECIFICATIONS.
	8"	8"	1/8"	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	
	30"	8"	1/8"	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	
	12"	12"	1/8"	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	
	14"	14"	1/8"	3/4"	45.0°	0.0°	DOUBLE-SHORT	DUCT MOUNT INSTALLATION	REFER TO SPECIFICATIONS.
	24"	14"	1/8″	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	

	SECOND FLOOR PLAN ROOM INDEX		TE OF OF
	ROOM     ROOM NAME       NUMBER     ROOM NAME       A201     STORAGE	<b>AREA</b> 884 SF	ANDREW P. HUELSMAN E-78372
	<ul> <li>A DIVISION 23 MECHANICAL CONTRACTOR IS REQUIRED TO COORDINATE DIFFUSE GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.</li> <li>B ALL EQUIPMENT LOCATED ABOVE CEILING REQUIRING MAINTENANCE SHALL BE INSTALLED WITHIN (2) FEET OF THE CEILING FOR MAINTENANCE PURPOSES. DO INSTALL UNITS ABOVE LIGHTS AND CEILING SPEAKERS. COORDINATE LOCATION ARCHITECTURAL REFLECTED CEILING PLAN AND GENERAL CONTRACTOR.</li> </ul>	E NOT	ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023
	C       ANY BALANCING DAMPERS OR OTHER DEVICES IN DUCTS ABOVE HARD CEILING LOCATED ABOVE NEAREST ACCESSIBLE CEILING.         D       THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPM ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO T PUNCH.         E       ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSUF OF 2" W.G. UNLESS NOTED OTHERWISE.         #       KEYNOTE DESCRIPTION         1       ROUTE GRAVITY DRAIN CONDENSATE PIPING TO FLOOR SERVICE SINK STORAGE ROOM BELOW. TERMINATE ABOVE FLOOD RIM. CUT END O 45 DEGREE ANGLE.         2       MOUNT OUTDOOR UNIT ON ROOF. PROVIDE CURB RAILS FOR MOUN' SECURE UNIT TO CURB RAILS. PROVIDE EPDM PIPE SEAL/FLASHING AT CURB PENETRATIONS.         3       DIVISION 23 HVAC CONTRACTOR SHALL SIZE AND ROUTE REFRIGERAN FROM OUTDOOR CONDENSING UNIT TO INDOOR COOLING UNIT AS RECOMMENDED BY UNIT MANUFACTURER. ROUTING SHALL BE COOF WITH OTHER UTILITIES. EXTERIOR ROOF PENETRATIONS SHALL BE COOF WITH OTHER UTILITIES. EXTERIOR ROOF PENETRATIONS SHALL BE SEA WATER TIGHT.         4       MECHANICAL CONTRACTOR TO PROVIDE CURB FOR THE PIPE PENETRATION ASSOCIATED FLASHING. COORDINATE PIPE PENETRATION WITH GENE CONTRACTOR.         5       ROUTE DUCT UP THROUGH MEZZANINE METAL GRATE FLOOR. COORI OPENING WITH GENERAL CONTRACTOR.         6       INSTALL FILTER BOX ON RETURN AIR OPENING.         7       TECHNOLOGY ROOM COOLING UNIT SHALL BE INSTALLED ON CONTIN METAL GRATING MEZZANINE FLOOR. UNIT SHALL BE INSTALLED ON CONTIN	IENT AFTER THE FINAL RE CLASS TIN OF PIPE AT TING. T ROOF NT PIPING RDINATED ALED TATION AND RAL DINATE	Image: A contract of the participation of the partipation of the participation of the partipation of the
Required Outdoor Air Intake Flow, VotOA DeliveredSpecified Exhaust Airflow0 CFM0 CFM0 CFM0 CFM0 CFM0 CFM34 CFM38 CFM0 CFM34 CFM38 CFM0 CFM45 CFM68 CFM0 CFM45 CFM68 CFM0 CFM60 CFM0 CFM60 CFM0 CFM85 CFM236 CFM75 CFM85 CFM236 CFM75 CFMEMARKST MOUNTED DISCONNECT, SUPPORT FROM COLOR WHITE TO MATCH CEILING.	ISOLATION PADS. PROVIDE 1/4" STEEL PLATES BETWEEN THE GRATIN VIBRATION PADS. NUMBER OF PADS AND THEIR APPROPRIATE LOCAT SHALL BE DETERMINED BY THE LOADING. PAD SHALL BE DOUBLE LAY NEOPRENE PAD WITH STEEL DISRUPTION PLATE SEPARATION. DESIGN KINETICS MODEL 'NPD'.	G AND FIONS ER	TIPP CITY GOVERNMENT BUILDING INFILL 280 SOUTH GARBER DRIVE, TIPP CITY, OHO
REMARKS IDE WITH INSULATED CURB INSTALLED TO ACTURER'S REQUIREMENTS. PROVIDE 7-DAY VABLE THERMOSTAT. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT.			ISSUANCES/REVISIONS   BID DOCUMENTS   02/02/2023     PROJECT   NUMBER:   DRAWN BY:   CHECKED BY:   22094.00   AMW   SHEET TITLE:
			MECHANICAL MEZZANINE PLAN AND SCHEDULES
			SHEET NUMBER:

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ASSOCIATES,
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NOTE:	ABBREVIATIONS USED ON	L LOC	LOCATION
	THE CONTRACT DOCUMENTS,	LSIG	LONG TIME, SHORT TIME,
	INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED		INSTANTANEOUS, AND GROUND FAULT PROTECTIO
	BELOW.	L	
١		M	
1	AMPS, AMPERE, AMPERAGE	mA MAX	MILLIAMPS MAXIMUM
/V		MCA	MINIMUM CIRCUIT
.C c	ABOVE COUNTER ALTERNATING CURRENT	MCC	
.DA	AMERICANS WITH	МСС МН	MOTOR CONTROL CENTER MOUNTING HEIGHT
	DISABILITIES ACT	MIN	MINIMUM
.FF	ABOVE FINISHED FLOOR	MTD	MOUNTED
.FG .IC	ABOVE FINISHED GRADE	MTS	MANUAL TRANSFER SWITCH
	CURRENT	N	
		N/A	NOT APPLICABLE
TS	AUTOMATIC TRANSFER	NC	NORMALLY CLOSED
WG	AMERICAN WIRE GAUGE	NEC NEMA	NATIONAL ELECTRICAL COD
			MANUFACTURERS
KR	BREAKER		ASSOCIATION
TM	BOTTOM	NEUT NFPA	NEUTRAL NATIONAL FIRE PROTECTION
			ASSOCIATION
		NIC	NOT IN CONTRACT
B	CONDUIT CIRCUIT BREAKER	NO	NORMALLY OPEN
в CTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
KT	CIRCUIT	0	
U	COPPER	ОН	OVERHEAD
		D	
c	DIRECT CURRENT	P P	POLE
IA	DIAMETER	PA	PUBLIC ADDRESS
		РС	PHOTOCELL
C	ELECTRICAL CONTRACTOR	PH	PHASE
M	EMERGENCY	PVC	POLYVINYL CHLORIDE
MT	ELECTRICAL METALLIC	R	
v		RGS	RIGID GALVANIZED STEEL
X	EXISTING	S	
		S SPD	SURGE PROTECTION DEVICE
A	FIRE ALARM	SW	SWITCH
	FIRE ALARM ANNUNCIATOR		
ACP DR	FIRE ALARM CONTROL PANEL	T TEMP	TEMPORARY
LA	FULL LOAD AMPS	TEMP	TELEVISION
UT	FUTURE	TVSS	TRANSIENT VOLTAGE SURGE
ì			SUPPRESSOR
iEN	GENERATOR	ТҮР	TYPICAL
FI OR GFCI	GROUND FAULT CIRCUIT	U	
		UG	UNDERGROUND
FP OR GFPE	GROUND FAULT PROTECTION OF EQUIPMENT	UL	UNDERWRITERS' LABORATORIES
ind	GROUND	UNO	UNLESS NOTED OTHERWISE
1		UPS	
I IOA	HAND-OFF-AUTO		SUPPLY
IP	HORSEPOWER	V	
IT	HEIGHT	V	VOLTS, VOLTAGE
		VFD	VARIABLE FREQUENCY DRIV
EE	INSTITUTE OF ELECTRICAL	W	
	AND ELECTRONICS	W	WIRE
3	ENGINEERS ISOLATED GROUND	WG	WIRE GUARD
ر		WP	WEATHER PROOF
		Х	
CMIL	THOUSAND CIRCULAR MILS	XFMR	TRANSFORMER
V VA	KILOVOLT KILOVOLT AMPS		
VA VAR	KILOVOLT AMPS REACTIVE		
W	KILOWATT		
WH	KILOWATT HOUR		
ABBR	EVIATIONS		
	GENERAL DRAV	<b>WINGS</b>	SYMBOLS
$\langle \mathbf{x} \rangle$	KEYED NOTE REFERENCE		
X	REVISION NUMBER - SHO	WN ON PLAN	S
2	CONTINUATION SYMBOL		
$\frown$			
	NUMBER OF DETAIL ON S		PEARS
		ULIAIL AM	/
	DEMOLITION		LICABLE)
<b></b> -		•	-
SYMBOL	DESCI		NOTES
		J LAIJTING DI	EVICE OR REFER TO
\$Q			DEMOLITION PL
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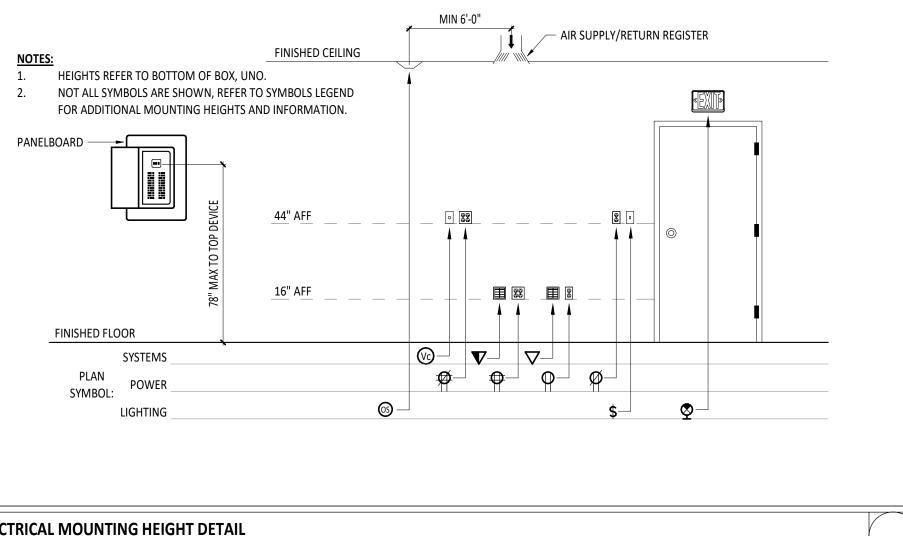
	<b>RACEWAY &amp; CONDUCTORS</b>
SYMBOL	DESCRIPTION
<del></del>	TICK MARKS DENOTING CONDUCTOR IDENTIFICATION. REFER TO 'KEY TO ELECTRICAL CIRCUIT WIF DETAIL FOR MORE INFORMATION.
	CIRCUIT CONCEALED IN CEILING, WALL, OR FLOOR OF NEW CONSTRUCTION. CONCEALED WHEREN POSSIBLE IN AREAS OF OPEN STRUCTURE OR EXISTING CONSTRUCTION.
	INDICATES CONCEALED CONDUIT UNDERGROUND/UNDERFLOOR
	HOMERUN TO PANEL OR LOCATION NOTED
(2)2" E	CONDUIT SLEEVE(S) ABOVE CEILING FOR TECHNOLOGY CABLING. (#) INDICATES QUANTITY, #" INDICATES CONDUIT SIZE. REFER TO ARCHITECTURAL SECTIONS FOR CEILING HEIGHTS.
	CONDUIT TURNS

	ELECTRICAL EQUIPMENT SYMBOLS		
SYMBOL	DESCRIPTION	MOUI	NTI
	SURFACE MOUNTED PANELBOARD - CIRCUIT BREAKER TYPE. DASHED LINES ON PLAN INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM.		78
	FLUSH MOUNTED PANELBOARD - CIRCUIT BREAKER TYPE. DASHED LINES ON PLAN INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM.	VARIES	-
	DISTRIBUTION PANEL - CIRCUIT BREAKER TYPE. DASHED LINES ON PLAN INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM.	VARIES	v
Ъ	NON-FUSED DISCONNECT SWITCH.	VARIES	v
ATS	AUTOMATIC TRANSFER SWITCH.	VARIES	72
(SD1)	SMOKE DAMPER ELECTRICAL CONNECTION.	VARIES	V

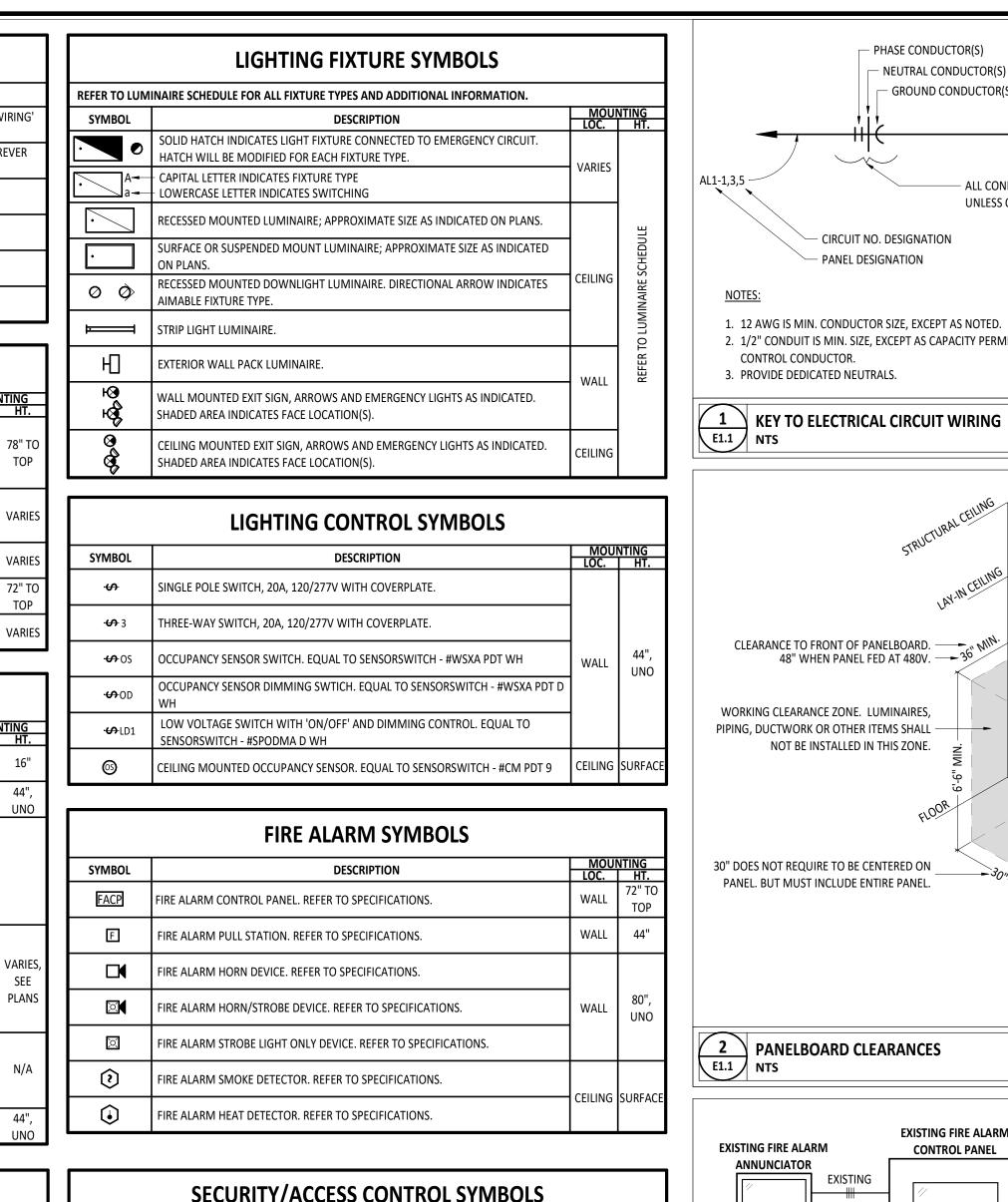
	WIRING DEVICE SYMBOLS		
SYMBOL	DESCRIPTION	MOUI	
<b>=O</b> x	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLATE MOUNTED VERTICALLY.	WALL, UNO	
	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLATE MOUNTED VERTICALLY.	WALL, UNO	
	'X' INDICATES RECEPTACLE TYPE OTHER THAN STANDARD         NO DESIGNATOR INDICATES STANDARD POWER DEVICE         GFI = GFCI RATED         TR = TAMPER RESISTANT         WP = WEATHER-PROOF AND GFCI RATED (METAL IN-USE COVERPLATE)		
O	JUNCTION BOX OR EQUIPMENT CONNECTION.		
<b>①</b> <del>∿</del>	JUNCTION BOX OR EQUIPMENT CONNECTION WITH SWITCH FOR MAINTENANCE DISCONNECT. PROVIDE SWITCH RATED FOR VOLTAGE AND LOAD SHOWN ON PLANS.	VARIES, SEE	
Ю	WALL MOUNTED JUNCTION BOX.	PLANS	F
Ŋ	MOTOR CONNECTION.	N/A	
Nor-	MOTOR CONNECTION WITH SWITCH FOR MAINTENANCE DISCONNECT. PROVIDE SWITCH RATED FOR VOLTAGE AND LOAD SHOWN ON PLANS.	N/A	
<b>↔</b> DT	7-DAY HEAVY-DUTY PROGRAMMABLE DIGITAL TIMER RATED FOR LOAD BEING CONTROLLED. EQUAL TO INTERMATIC - #ST01	WALL	

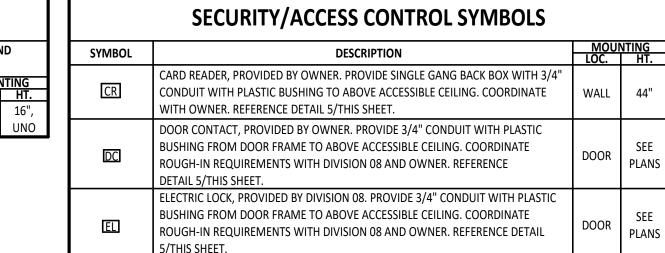
TECHNOLOGY OUTLET SYMBOLS
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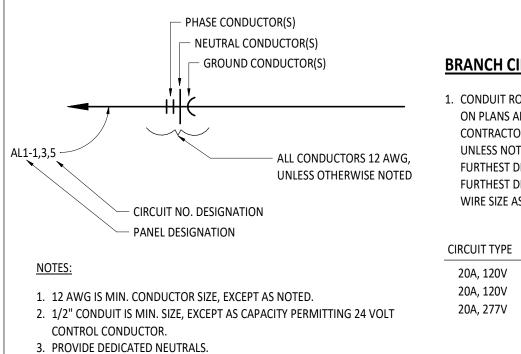
STUB ALL CONDUITS FOR TECHNOLOGY OUTLETS ABOVE ACCESSIBLE CEILING, UNO. PROVIDE PULL STRING AND PLASTIC BUSHING ON END OF EACH CONDUIT. PROVIDE COVERPLATE FOR UNUSED BOXES.			
SYMBOL	DESCRIPTION	MOUI	NTING HT.
$\triangleleft$	DATA OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE ONE (1) 1-1/4" CONDUIT.	WALL	16", UNO

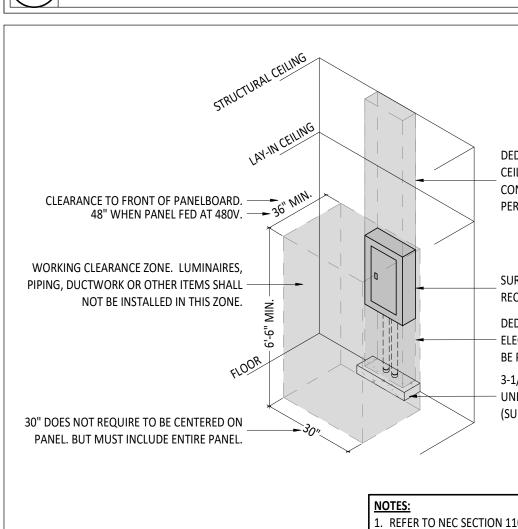


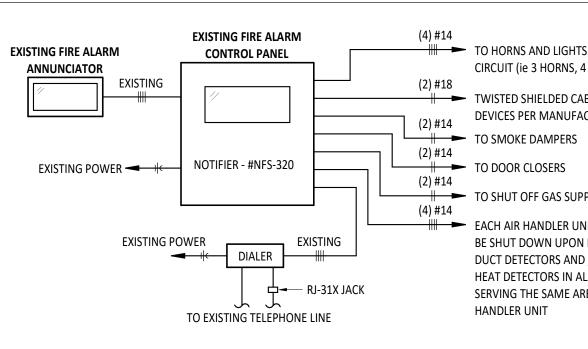
4 ELECTRICAL MOUNTING HEIGHT DETAIL E1.1 NTS



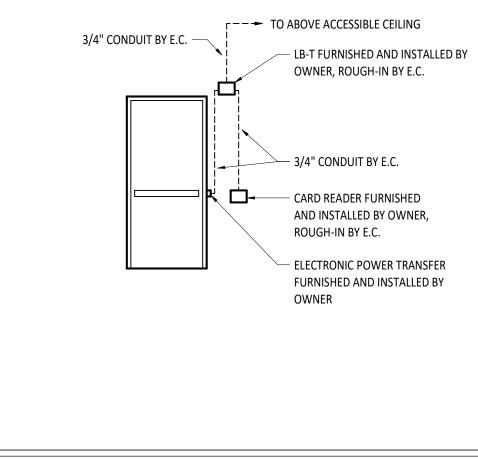








3 E1.1 FIRE ALARM RISER DIAGRAM



5 ACCESS CONTROL SYSTEM SCHEMATIC WIRE DIAGRAM

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1. CONDUIT ROUTING FOR BRANCH CIRCUITS ARE NOT SHOWN ON PLANS AND IS LEFT TO THE DISCRETION OF THE CONTRACTOR. THE FOLLOWING WIRE SIZES SHALL BE USED UNLESS NOTED OTHERWISE IN PANEL SCHEDULE. DETERMINE FURTHEST DISTANCE FROM BRANCH PANELBOARD TO FURTHEST DEVICE PRIOR TO WIRE INSTALLATION. INCREASE WIRE SIZE AS NECESSARY FOR FURTHER DISTANCES.

CONDUCTOR SIZE	MAXIMUM LENGTH	
10 AWG	100 FEET	
8 AWG	175 FEET	
10 AWG	200 FEET	
		_

DEDICATED ELECTRICAL SPACE TO STRUCTURAL CEILING OR HARD CEILING. ONLY ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE PERMITTED TO PENETRATE THIS AREA.

SURFACE MOUNTED OR

RECESSED PANELBOARD

- DEDICATED ELECTRICAL SPACE TO FLOOR. ONLY - ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE PERMITTED TO PENETRATE THIS AREA. 3-1/2" CONCRETE FLOOR CURB FOR
- UNDERGROUND CONDUIT PENETRATIONS. (SURFACE MOUNTED PANELBOARDS ONLY)

NC	<u>DTES:</u>
1.	REFER TO NEC SECTION 110.26 FOR MORE INFORMATION.
2.	COORDINATE ALL WORK WITH OTHER TRADES TO MAINTAIN ALI
	OTHER NEC CLEARANCES AND REQUIREMENTS.

ORNS AND LIGHTS. MAX 7 DEVICES PER
UIT (ie 3 HORNS 4 LIGHTS)

- TWISTED SHIELDED CABLE TO ALL INITIATING DEVICES PER MANUFACTURER'S REQUIREMENTS
- TO SHUT OFF GAS SUPPLIES (VALVES)
- EACH AIR HANDLER UNIT SUPPLY FAN SHALL BE SHUT DOWN UPON ITS OWN SMOKE DUCT DETECTORS AND / OR SMOKE OR HEAT DETECTORS IN ALARM WHICH ARE SERVING THE SAME AREA AS THE AIR HANDLER UNIT

ELECTRICAL SHEET INDEX		
SHEET UMBER	SHEET NAME	
E1.1	GENERAL NOTES, ABBREVIATIONS, LEGENDS, DETAILS AND SHEET INDEX	
ED1.1	ELECTRICAL DEMOLITION PLAN	
E2.1	FIRST FLOOR SYSTEMS PLAN	
E3.1	FIRST FLOOR LIGHTING PLAN	
E4.1	FIRST FLOOR POWER PLAN	
E5.1	ROOF ELECTRICAL PLAN	
E5.2	MEZZANINE ELECTRICAL PLANS	
E6.1	LUMINAIRE SCHEDULE	
E7.1	ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHEDULES	

### ELECTRICAL GENERAL NOTES

- A ALL GENERAL WALL MOUNT WIRING DEVICES TO BE WHITE IN COLOR. COVERPLATES TO BE WHITE, NYLON, UNBREAKABLE TYPE.
- B ALL MOUNTING HEIGHTS REFER TO THE BOTTOM OF BOX OR DEVICE UNO.
- C ALL CONDUIT TO BE CONCEALED.
- D TICK MARKS ON LIGHTING PLAN CIRCUITING INDICATE A CHANGE IN SWITCHING. E ALL WORK SHALL CONFORM TO THE 2017 N.E.C., NATIONAL, STATE, AND LOCAL CODES WHICH APPLY.
- ALL MATERIAL AND EQUIPMENT SHALL CONFORM TO U.L. AND NEMA STANDARDS
- WHICH APPLY. G THIS CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED TO THE EXECUTION OF HIS WORK.
- H THIS CONTRACTOR SHALL GUARANTEE HIS ENTIRE ELECTRICAL INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR.
- MINIMUM WIRE SIZE SHALL BE 12 AWG UNO.
- CONDUCTORS SHALL BE TYPE 'THHN/THWN' STRANDED COPPER. CONDUCTORS 6 AWG, AND LARGER, MAY BE COPPER OR ALUMINUM.
- EXPOSED EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR INTERMEDIATE GRADE METAL CONDUIT. INTERIOR CONDUIT MAY BE ELECTRICAL METALIC TUBING. CONDUIT BURIED BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH APPROPRIATE SIZE GREEN GROUND WIRE UNO.

### **ELECTRICAL LIGHTING CONTROL GENERAL NOTES**

- A ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. IF PENDANT FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED.
- ULTRASONIC CEILING MOUNT SENSORS REQUIRE THAT THEY BE LOCATED NO CLOSER THAN 6' TO AIR SUPPLY/RETURN REGISTERS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- CONTRACTOR SHALL PROVIDE A LIGHTING CONTROL REPRESENTATIVE/TECHNICIAN FOR INITIAL SET-UP OF LIGHTING CONTROL SYSTEMS. TWO (2) HOURS MINIMUM DEMONSTRATION AND TRAINING SHALL BE PROVIDED FOR EACH TYPE OF LIGHTING CONTROL SYSTEM. THE LIGHTING CONTROL REPRESENTATIVE/TECHNICIAN SHALL BE REQUIRED TO MAKE A SECOND SITE VISIT FOR POST COMMISSIONING REPAIRS AND ADJUSTMENTS.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS. ONE POWER PACK IS REQUIRED FOR EACH CONTROL/TOGGLE SWITCH. MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWERPACK IS DEPENDENT ON SENSOR MODEL (SEE INDIVIDUAL DATA SHEETS FOR mA CONSUMPTION).
- EQUALS BY LEVITON, WATTSTOPPER, CRESTRON, NOVITALS, LUTRON, STARFIELD, AND COOPER.

NOTE: ALL SYMBOLS OR ABBREVIATIONS MAY NOT BE
USED FOR THIS PROJECT AND ARE SUBJECT TO CHANGE
ON OTHER DRAWINGS.

LAST UPDATED: 01/26/2022

ANDREW P. HUELSMAN E-78372 SIONAL F. MUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023
Image: Sector
TIPP CITY GOVERNMENT BUILDING INFILL
ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023
PROJECT NUMBER:     DRAWN BY:     CHECKED BY:       22094.00     AEM     CDS
SHEET TITLE: GENERAL NOTES, ABBREVIATIONS, LEGENDS, DETAILS AND SHEET INDEX

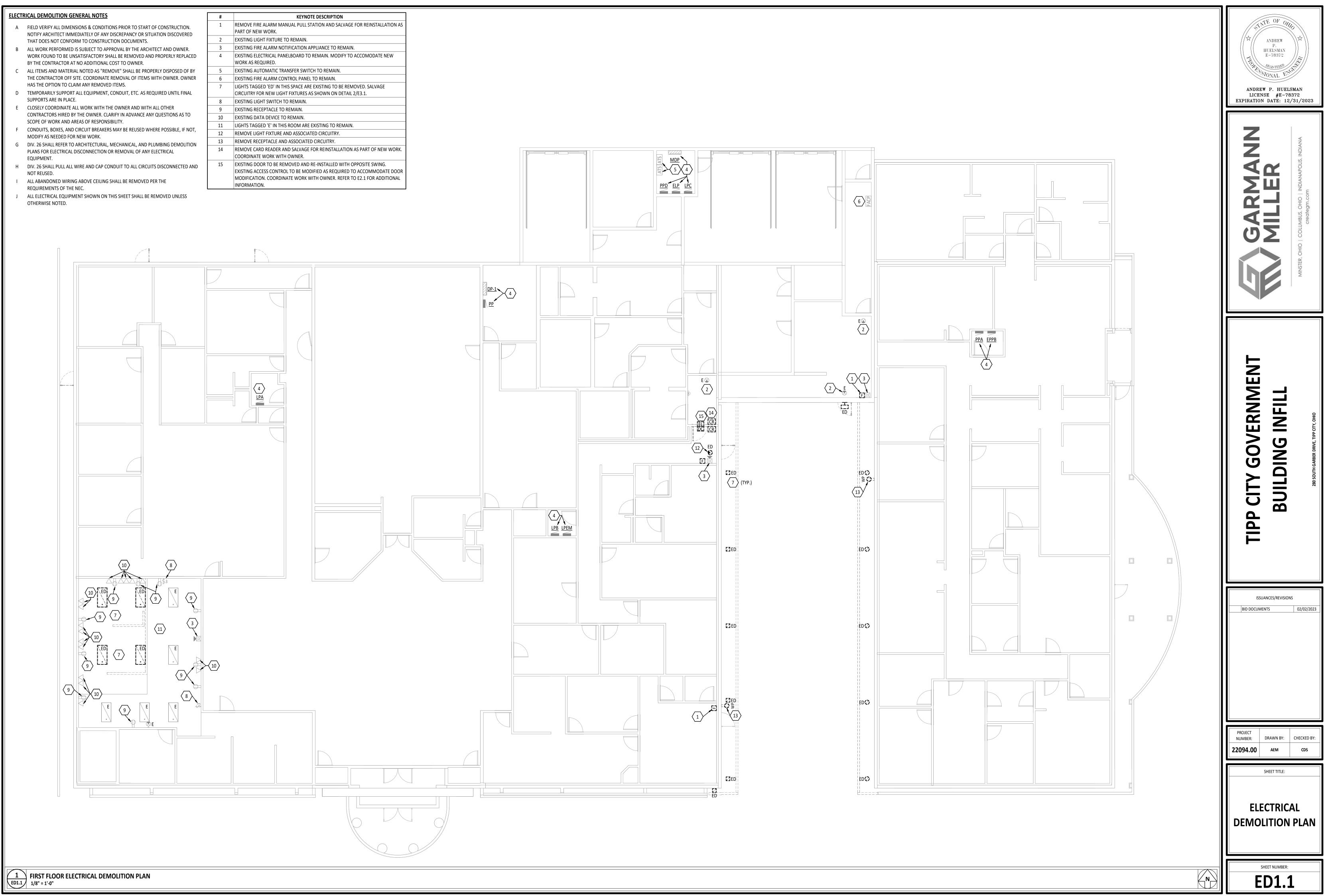
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SHEET NUMBER:

# **ELECTRICAL DEMOLITION GENERAL NOTES**

- A FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCY OR SITUATION DISCOVERED
- B ALL WORK PERFORMED IS SUBJECT TO APPROVAL BY THE ARCHITECT AND OWNER. WORK FOUND TO BE UNSATISFACTORY SHALL BE REMOVED AND PROPERLY REPLACED
- C ALL ITEMS AND MATERIAL NOTED AS "REMOVE" SHALL BE PROPERLY DISPOSED OF BY
- HAS THE OPTION TO CLAIM ANY REMOVED ITEMS. D TEMPORARILY SUPPORT ALL EQUIPMENT, CONDUIT, ETC. AS REQUIRED UNTIL FINAL
- SUPPORTS ARE IN PLACE. E CLOSELY COORDINATE ALL WORK WITH THE OWNER AND WITH ALL OTHER
- CONTRACTORS HIRED BY THE OWNER. CLARIFY IN ADVANCE ANY QUESTIONS AS TO SCOPE OF WORK AND AREAS OF RESPONSIBILITY.
- MODIFY AS NEEDED FOR NEW WORK.
- PLANS FOR ELECTRICAL DISCONNECTION OR REMOVAL OF ANY ELECTRICAL EQUIPMENT.
- H DIV. 26 SHALL PULL ALL WIRE AND CAP CONDUIT TO ALL CIRCUITS DISCONNECTED AND NOT REUSED.
- I ALL ABANDONED WIRING ABOVE CEILING SHALL BE REMOVED PER THE REQUIREMENTS OF THE NEC.
- J ALL ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET SHALL BE REMOVED UNLESS OTHERWISE NOTED.

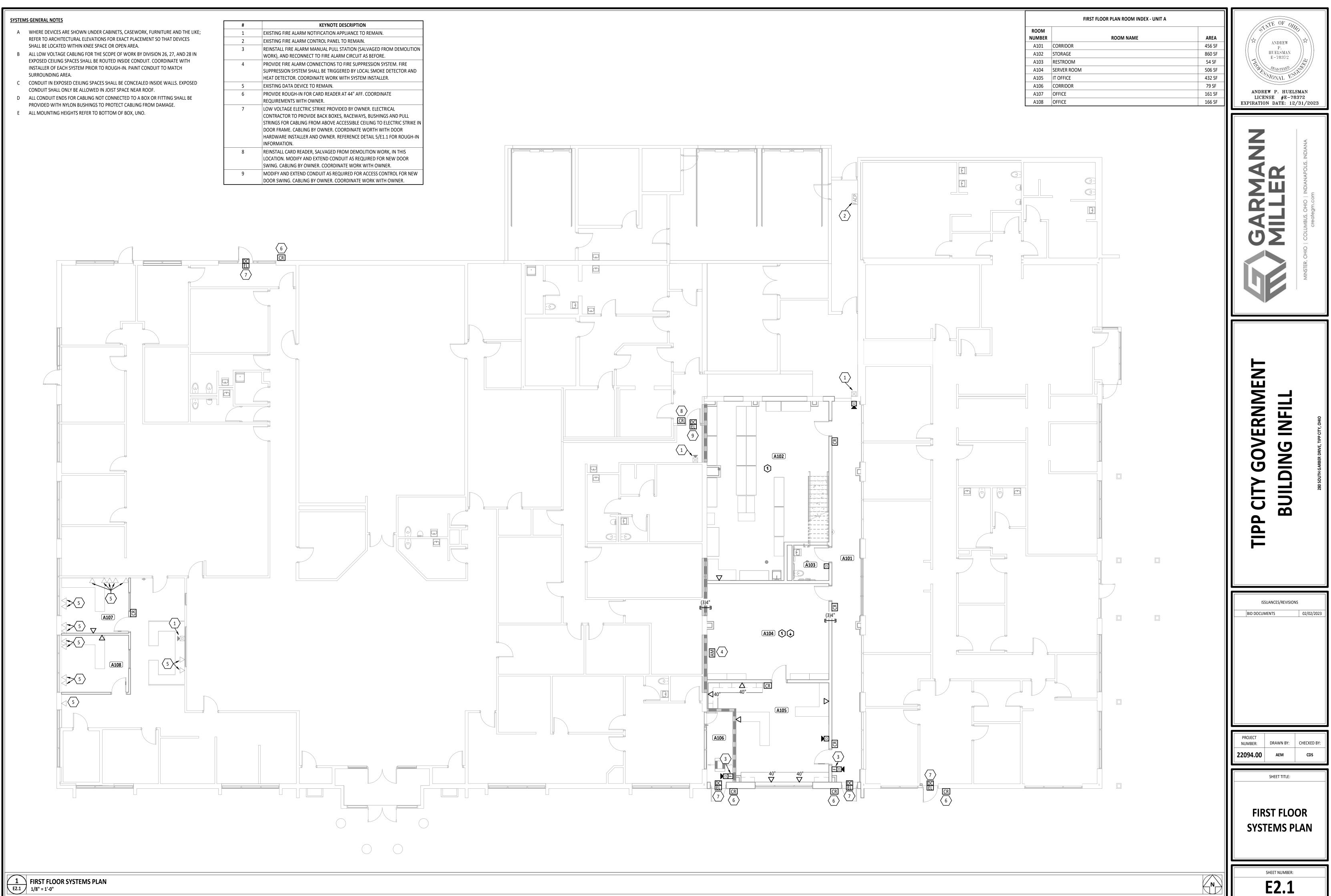
#	KEYNOTE DESCRIPTION
1	REMOVE FIRE ALARM MANUAL PULL STATION AND SALVAGE FOR REINSTALLATION AS PART OF NEW WORK.
2	EXISTING LIGHT FIXTURE TO REMAIN.
3	EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO REMAIN.
4	EXISTING ELECTRICAL PANELBOARD TO REMAIN. MODIFY TO ACCOMODATE NEW WORK AS REQUIRED.
5	EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.
6	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
7	LIGHTS TAGGED 'ED' IN THIS SPACE ARE EXISTING TO BE REMOVED. SALVAGE CIRCUITRY FOR NEW LIGHT FIXTURES AS SHOWN ON DETAIL 2/E3.1.
8	EXISTING LIGHT SWITCH TO REMAIN.
9	EXISTING RECEPTACLE TO REMAIN.
10	EXISTING DATA DEVICE TO REMAIN.
11	LIGHTS TAGGED 'E' IN THIS ROOM ARE EXISTING TO REMAIN.
12	REMOVE LIGHT FIXTURE AND ASSOCIATED CIRCUITRY.
13	REMOVE RECEPTACLE AND ASSOCIATED CIRCUITRY.
14	REMOVE CARD READER AND SALVAGE FOR REINSTALLATION AS PART OF NEW WORK. COORDINATE WORK WITH OWNER.
15	EXISTING DOOR TO BE REMOVED AND RE-INSTALLED WITH OPPOSITE SWING. EXISTING ACCESS CONTROL TO BE MODIFIED AS REQUIRED TO ACCOMMODATE DOOR MODIFICATION. COORDINATE WORK WITH OWNER. REFER TO E2.1 FOR ADDITIONAL



## SYSTEMS GENERAL NOTES

- A WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND THE LIKE; REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVICES
- B ALL LOW VOLTAGE CABLING FOR THE SCOPE OF WORK BY DIVISION 26, 27, AND 28 IN EXPOSED CEILING SPACES SHALL BE ROUTED INSIDE CONDUIT. COORDINATE WITH INSTALLER OF EACH SYSTEM PRIOR TO ROUGH-IN. PAINT CONDUIT TO MATCH
- C CONDUIT IN EXPOSED CEILING SPACES SHALL BE CONCEALED INSIDE WALLS. EXPOSED
- PROVIDED WITH NYLON BUSHINGS TO PROTECT CABLING FROM DAMAGE.
- E ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.

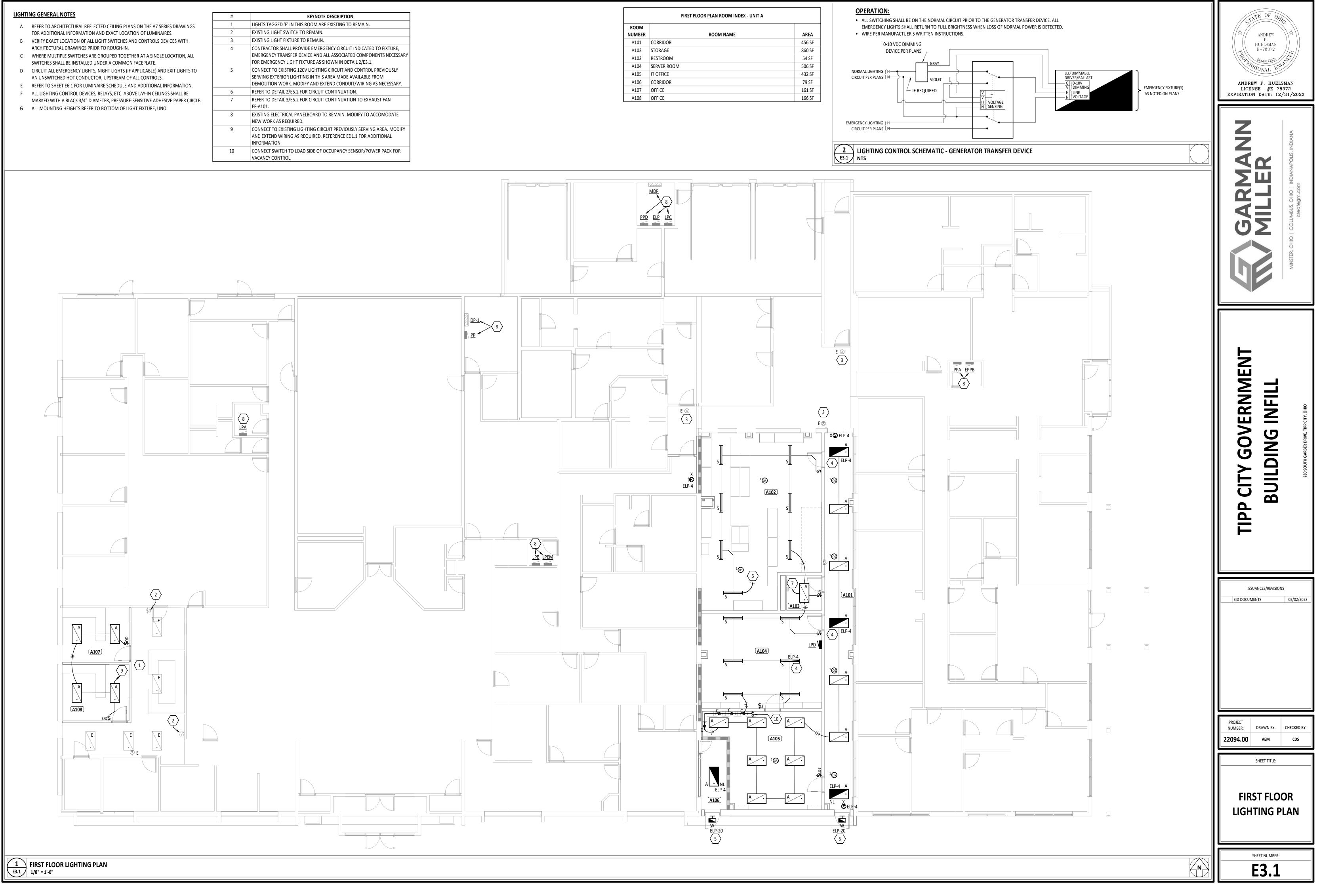
#	KEYNOTE DESCRIPTION
1	EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO REMAIN.
2	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
3	REINSTALL FIRE ALARM MANUAL PULL STATION (SALVAGED FROM DEMOLITION WORK), AND RECONNECT TO FIRE ALARM CIRCUIT AS BEFORE.
4	PROVIDE FIRE ALARM CONNECTIONS TO FIRE SUPPRESSION SYSTEM. FIRE SUPPRESSION SYSTEM SHALL BE TRIGGERED BY LOCAL SMOKE DETECTOR AND HEAT DETECTOR. COORDINATE WORK WITH SYSTEM INSTALLER.
5	EXISTING DATA DEVICE TO REMAIN.
6	PROVIDE ROUGH-IN FOR CARD READER AT 44" AFF. COORDINATE REQUIREMENTS WITH OWNER.
7	LOW VOLTAGE ELECTRIC STRIKE PROVIDED BY OWNER. ELECTRICAL CONTRACTOR TO PROVIDE BACK BOXES, RACEWAYS, BUSHINGS AND PULL STRINGS FOR CABLING FROM ABOVE ACCESSIBLE CEILING TO ELECTRIC STRIKE IN DOOR FRAME. CABLING BY OWNER. COORDINATE WORTH WITH DOOR HARDWARE INSTALLER AND OWNER. REFERENCE DETAIL 5/E1.1 FOR ROUGH-IN INFORMATION.
8	REINSTALL CARD READER, SALVAGED FROM DEMOLITION WORK, IN THIS LOCATION. MODIFY AND EXTEND CONDUIT AS REQUIRED FOR NEW DOOR SWING. CABLING BY OWNER. COORDINATE WORK WITH OWNER.
9	MODIFY AND EXTEND CONDUIT AS REQUIRED FOR ACCESS CONTROL FOR NEW DOOR SWING. CABLING BY OWNER. COORDINATE WORK WITH OWNER.

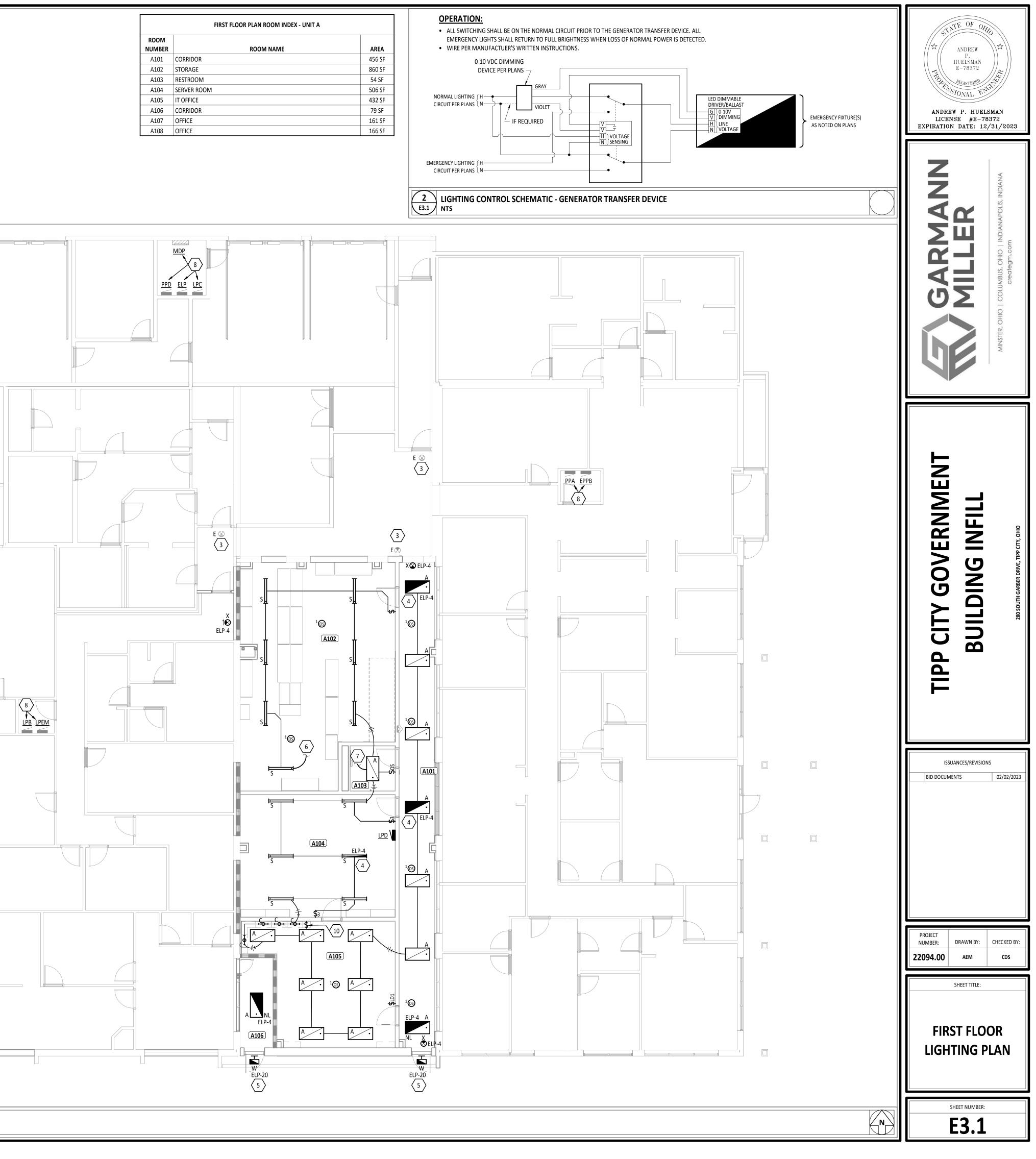


## LIGHTING GENERAL NOTES

- A REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON THE A7 SERIES DRAWINGS
- ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- С
- AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.
- E REFER TO SHEET E6.1 FOR LUMINAIRE SCHEDULE AND ADDITIONAL INFORMATION.
- G ALL MOUNTING HEIGHTS REFER TO BOTTOM OF LIGHT FIXTURE, UNO.

#	KEYNOTE DESCRIPTION
1	LIGHTS TAGGED 'E' IN THIS ROOM ARE EXISTING TO REMAIN.
2	EXISTING LIGHT SWITCH TO REMAIN.
3	EXISTING LIGHT FIXTURE TO REMAIN.
4	CONTRACTOR SHALL PROVIDE EMERGENCY CIRCUIT INDICATED TO FIXTURE, EMERGENCY TRANSFER DEVICE AND ALL ASSOCIATED COMPONENTS NECESSARY FOR EMERGENCY LIGHT FIXTURE AS SHOWN IN DETAIL 2/E3.1.
5	CONNECT TO EXISTING 120V LIGHTING CIRCUIT AND CONTROL PREVIOUSLY SERVING EXTERIOR LIGHTING IN THIS AREA MADE AVAILABLE FROM DEMOLITION WORK. MODIFY AND EXTEND CONDUIT/WIRING AS NECESSARY.
6	REFER TO DETAIL 2/E5.2 FOR CIRCUIT CONTINUATION.
7	REFER TO DETAIL 3/E5.2 FOR CIRCUIT CONTINUATION TO EXHAUST FAN EF-A101.
8	EXISTING ELECTRICAL PANELBOARD TO REMAIN. MODIFY TO ACCOMODATE NEW WORK AS REQUIRED.
9	CONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY SERVING AREA. MODIFY AND EXTEND WIRING AS REQUIRED. REFERENCE ED1.1 FOR ADDITIONAL INFORMATION.
10	CONNECT SWITCH TO LOAD SIDE OF OCCUPANCY SENSOR/POWER PACK FOR VACANCY CONTROL.



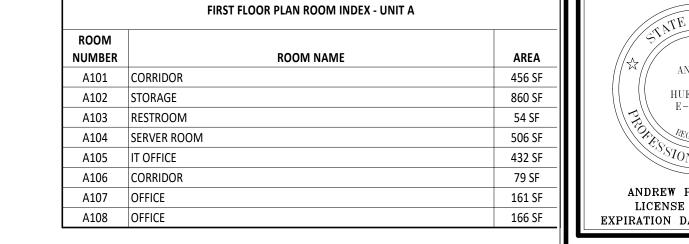


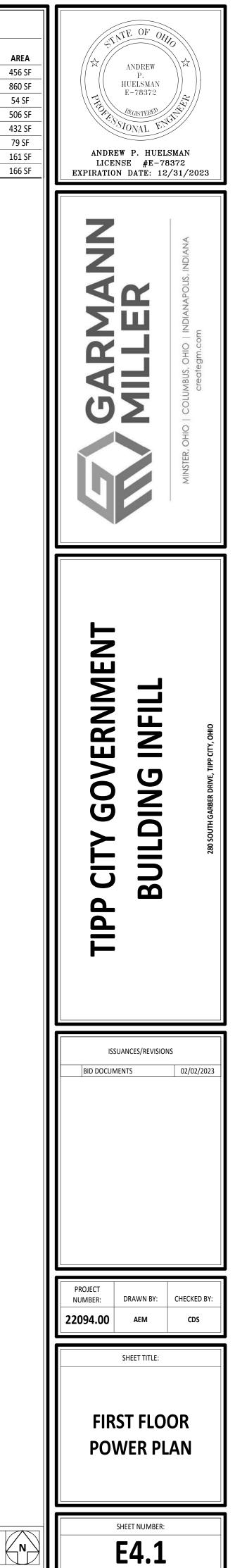
### POWER GENERAL NOTES

- A WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND THE LIKE; REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVICES SHALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA.
- B CASEWORK INSTALLER SHALL CUT HOLES IN CASEWORK FOR RECEPTACLES, DEVICES, ETC., UNLESS NOTED OTHERWISE.
- C ALL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLESS NOTED
- OTHERWISE AND APPROVED BY THE MANUFACTURER. D COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEARANCES ABOUT ELECTRICAL EQUIPMENT WITH ACCORDANCE TO THE NATIONAL ELECTRICAL
- CODE. E REFER TO MECHANICAL, PLUMBING, AND OTHER APPLICABLE DRAWINGS FOR EXACT
- EQUIPMENT LOCATIONS.
- F MAINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES WALL, CEILINGS, AND FLOORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES.
- G ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.

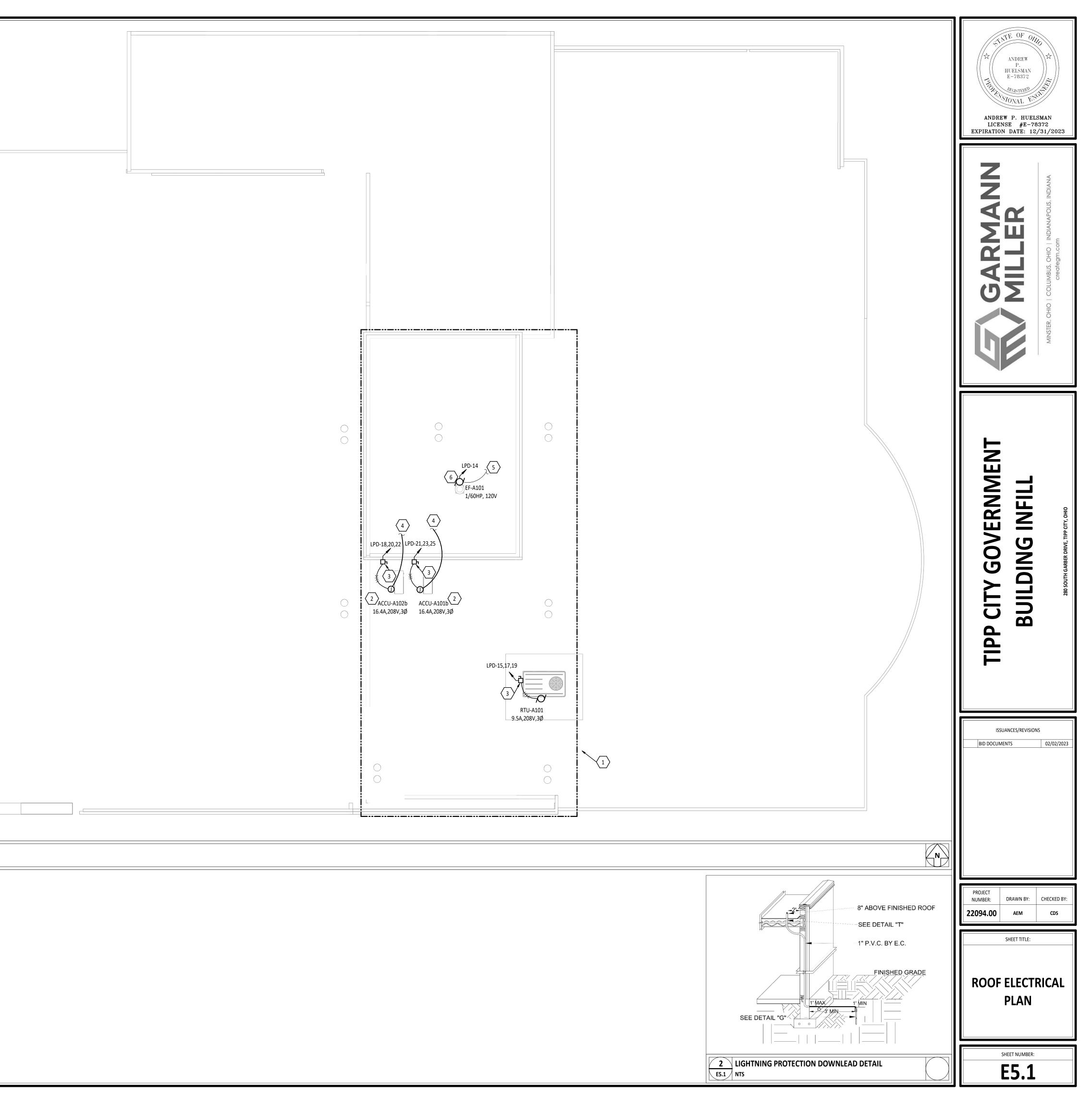
#	KEYNOTE DESCRIPTION
1	EXISTING ELECTRICAL PANELBOARD TO REMAIN. MODIFY TO ACCOMODATE
	NEW WORK AS REQUIRED.
2	EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.
3	EXISTING RECEPTACLE TO REMAIN.
4	CONNECT TO EXISTING 120V RECEPTACLE CIRCUIT PREVIOUSLY SERVING THIS AREA.
5	PROVIDE 120V POWER CONNECTION TO TECHNOLOGY ROOM FIRE
	SUPPRESSION SYSTEM. COORDINATE WORK WITH SYSTEM INSTALLER.
6	REFER TO DETAIL 3/E5.2 FOR CIRCUIT CONTINUATION.
7	PROVIDE WALL MOUNTED JUNCTION BOX MOUNTED AT 44" AFF WITH 100A,
	208V, 1Ø CIRCUIT CAPPED FOR FUTURE UPS.
8	CABINET HEATER TO BE FLUSH MOUNTED IN CEILING. UNIT PROVIDED WITH
	INTEGRAL DISCONNECT. COORDINATE LOCATION AND WORK WITH
	MECHANICAL CONTRACTOR.
9	PROVIDE 120V ELECTRICAL CONNECTION TO SMOKE DAMPERS. COORDINATE
	LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR.







1     ROOF ELECTRICAL PLAN       1/8" = 1'-0"	
A WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND THE LIKE; TO ADDI REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVICES LIGHTNI SHALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA. RACEWA	KEYNOTE DESCRIPTION G LIGHTNING PROTECTION SYSTEM SHALL BE MODIFIED AND EXTENDED TION. DESIGN AND INSTALLATION TO BE PROVIDED BY MAXWELL NG SYSTEMS. REFER TO DETAIL 2/THIS SHEET FOR DOWNLEAD AY REQUIREMENTS. COORDINATE QUANTITY OF DOWNLEADS WITH INSTALLER.
CASEWORK INSTALLED STRATE COTTIGLES IN CASE WORK FOR RECEPTACLES, DEVICES, ETC., UNLESS NOTED OTHERWISE.       2       MINI SPI         C       ALL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLESS NOTED OTHERWISE AND APPROVED BY THE MANUFACTURER.       2       MINI SPI         D       COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEARANCES ABOUT ELECTRICAL EQUIPMENT WITH ACCORDANCE TO THE NATIONAL ELECTRICAL       3       PROVIDI	LIT A/C UNIT FOR MAIN CONTROL/EQUIPMENT ROOM. PROVIDE ARY CONNECTIONS REQUIRED FOR UNIT. EXTEND CONTROL WIRING TO L UNIT LOCATED IN MEZZANINE A201. COORDINATE REQUIREMENTS ECHANICAL CONTRACTOR. E 30A NONFUSED HEAVY DUTY DISCONNECT. PROVIDE A NEMA 3R
CODE. ENCLOSE	JRE FOR OUTDOOR LOCATIONS. O DETAIL 3/E5.2 FOR CIRCUIT CONTINUATION. O DETAIL 1/E3.1 FOR CIRCUIT CONTINUATION.
F       MAINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES WALL, CEILINGS, AND       6       ROOFTC         FLOORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES.       EXHAUS       EXHAUS         G       ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX. UNO.       PROVIDI	P MOUNTED EXHAUST FAN PROVIDED WITH INTEGRAL DISCONNECT. T FAN SHALL TURN 'ON'OFF' WITH ROOM LIGHTS IN STORAGE A102. E NECESSARY ROOF PENETRATIONS, CONDUIT, WIRE AND ELECTRICAL CTIONS. COORDINATE WORK WITH MECHANICAL CONTRACTOR.



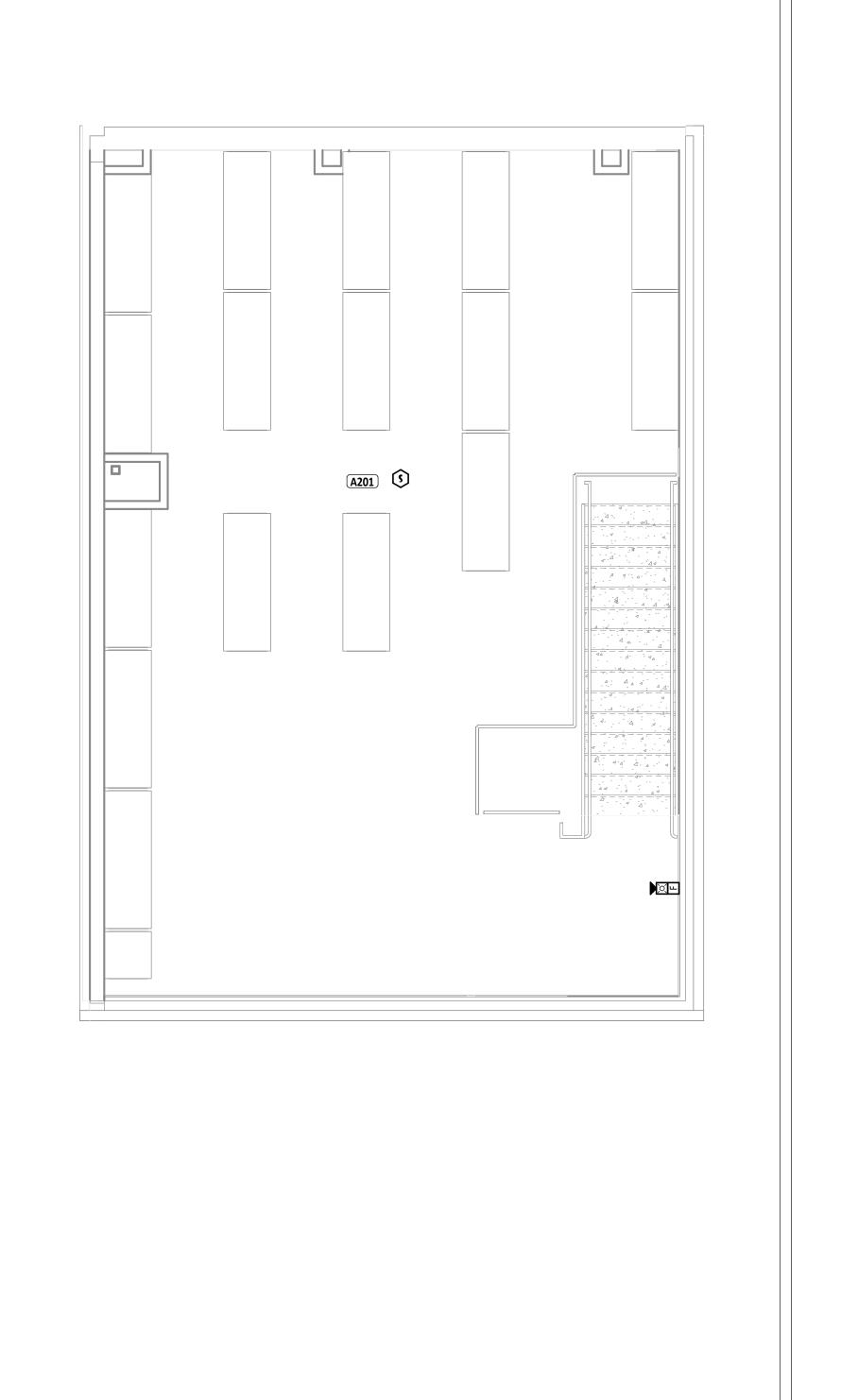
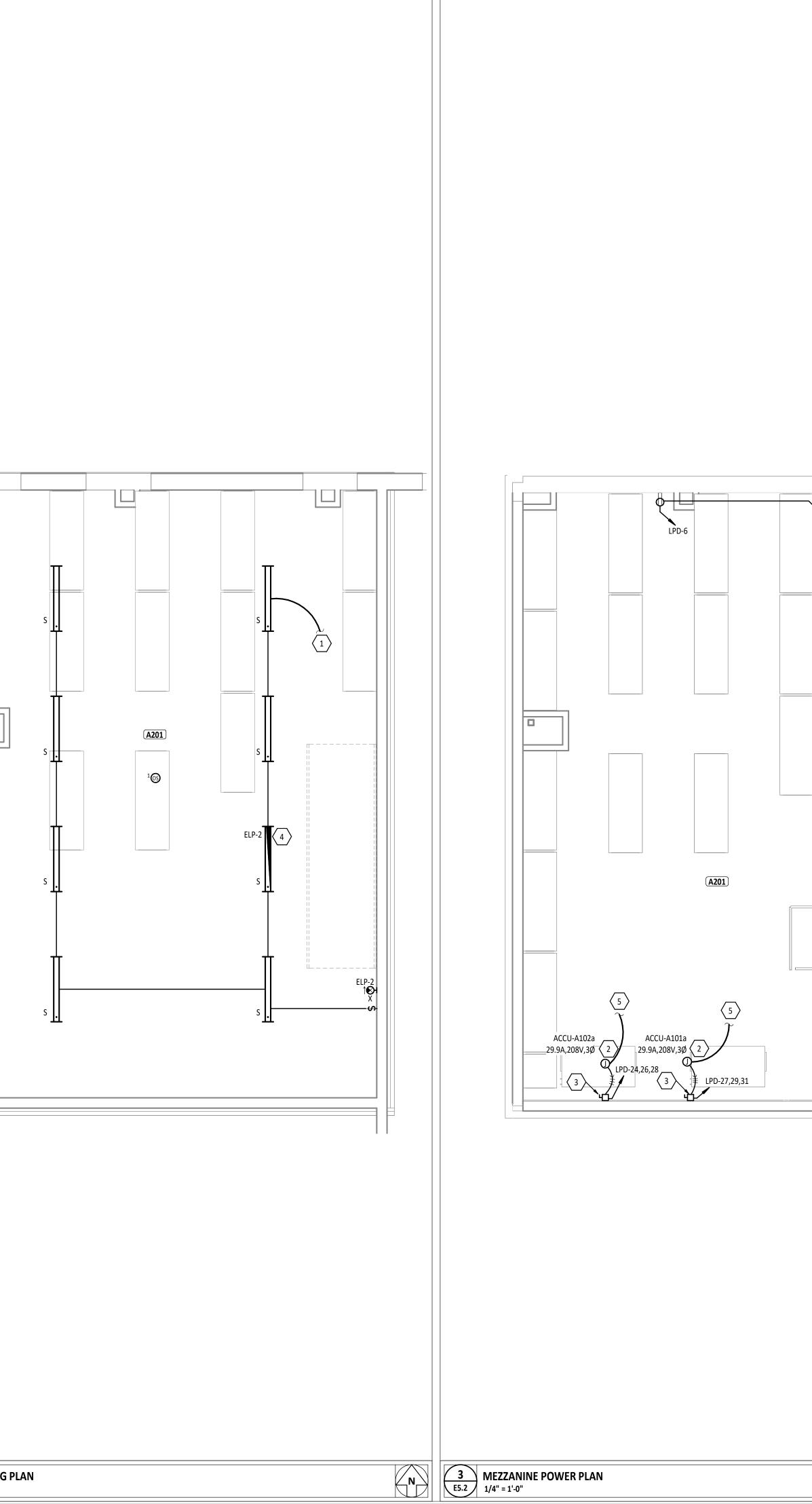


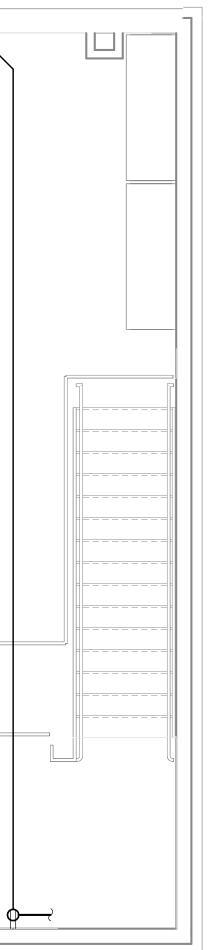


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N E5.2 MEZZANINE LIGHTING PLAN 1/4" = 1'-0"



ROOM	SECOND FLOOR PLAN ROOM INDEX		47	TE OF OH	
NUMBER A201	ROOM NAME STORAGE	<b>AREA</b> 884 SF	1	ANDREW P.	1
	GENERAL NOTES		P.P.	E ~00~0	NEL MEL
A	WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND T REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVIC SHALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA.			SIONAL EN	(II)
В	ALL LOW VOLTAGE CABLING FOR THE SCOPE OF WORK BY DIVISION 26, 27, AND EXPOSED CEILING SPACES SHALL BE ROUTED INSIDE CONDUIT. COORDINATE W		LICEN	NSE #E-78	3372
	INSTALLER OF EACH SYSTEM PRIOR TO ROUGH-IN. PAINT CONDUIT TO MATCH SURROUNDING AREA.			N DATE: 12	
С	CONDUIT IN EXPOSED CEILING SPACES SHALL BE CONCEALED INSIDE WALLS. EX CONDUIT SHALL ONLY BE ALLOWED IN JOIST SPACE NEAR ROOF.				
	ALL CONDUIT ENDS FOR CABLING NOT CONNECTED TO A BOX OR FITTING SHAL PROVIDED WITH NYLON BUSHINGS TO PROTECT CABLING FROM DAMAGE.	LL BE			ANA
	ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO. I <mark>G GENERAL NOTES</mark>		POLIS, INDI		
A	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON THE A7 SERIES DRAW FOR ADDITIONAL INFORMATION AND EXACT LOCATION OF LUMINAIRES.	/INGS	5		
	VERIFY EXACT LOCATION OF ALL LIGHT SWITCHES AND CONTROLS DEVICES WIT ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.	ГН			IIO   IN
C	WHERE MULTIPLE SWITCHES ARE GROUPED TOGETHER AT A SINGLE LOCATION SWITCHES SHALL BE INSTALLED UNDER A COMMON FACEPLATE.	I, ALL			(1)
	CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS (IF APPLICABLE) AND EXIT LIGH AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.	HTS TO		7	OLUMB
E F	REFER TO SHEET E6.1 FOR LUMINAIRE SCHEDULE AND ADDITIONAL INFORMATI ALL LIGHTING CONTROL DEVICES, RELAYS, ETC. ABOVE LAY-IN CEILINGS SHALL E		U	2	
	MARKED WITH A BLACK 3/4" DIAMETER, PRESSURE-SENSITIVE ADHESIVE PAPER ALL MOUNTING HEIGHTS REFER TO BOTTOM OF LIGHT FIXTURE, UNO.				R, OHI
	SENERAL NOTES		ÍN		MINSTE
	WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND T	THE LIKE;	U		
	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVIC SHALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA.				
В	CASEWORK INSTALLER SHALL CUT HOLES IN CASEWORK FOR RECEPTACLES, DEVETC., UNLESS NOTED OTHERWISE.	VICES,			
С	ALL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLESS N OTHERWISE AND APPROVED BY THE MANUFACTURER.	NOTED			
D	COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEARANG ABOUT ELECTRICAL EQUIPMENT WITH ACCORDANCE TO THE NATIONAL ELECTR				
E	CODE. REFER TO MECHANICAL, PLUMBING, AND OTHER APPLICABLE DRAWINGS FOR E	EXACT	⊢		
F	EQUIPMENT LOCATIONS. MAINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES WALL, CEILINGS, A	ND			
G	FLOORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES. ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.				
#	KEYNOTE DESCRIPTION			≓	
1	REFER TO DETAIL 1/E3.1 FOR CIRCUIT CONTINUATION. MINI SPLIT AC UNIT FOR MAIN CONTROL/EQUIPMENT ROOM. PROVID	E		Y	ОНЮ
	NECESSARY CONNECTIONS REQUIRED FOR UNIT. EXTEND CONTROL WI CONDENSING UNIT LOCATION ON ROOF. COORDINATE REQUIREMENT				ПРР СІТУ
3	MECHANICAL CONTRACTOR. PROVIDE 60A NONFUSED HEAVY DUTY DISCONNECT. PROVIDE A NEMA	A 3R	6	g	r drive, -
4	ENCLOUSRE FOR OUTDOOR LOCATIONS. CONTRACTOR SHALL PROVIDE EMERGENCY CIRCUIT INDICATED TO FIX	TURE,	J G	Ę	I GARBER
	EMERGENCY TRANSFER DEVICE AND ALL ASSOCIATED COMPONENTS N FOR EMERGENCY LIGHT FIXTURE AS SHOWN IN DETAIL 2/E3.1.	NECESSARY			to south
5	REFER TO SHEET E5.1 FOR CIRCUIT CONTINUATION.			Ξ	5
				Bl	
			ISSI	JANCES/REVISION	٧S
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			NUMBER: 22094.00 ME ELECTI	AEM SHEET TITLE: ZZANI RICAL F	cds
			NUMBER: 22094.00 ME ELECTI	AEM SHEET TITLE: ZZANI RICAL F	CDS NE PLANS



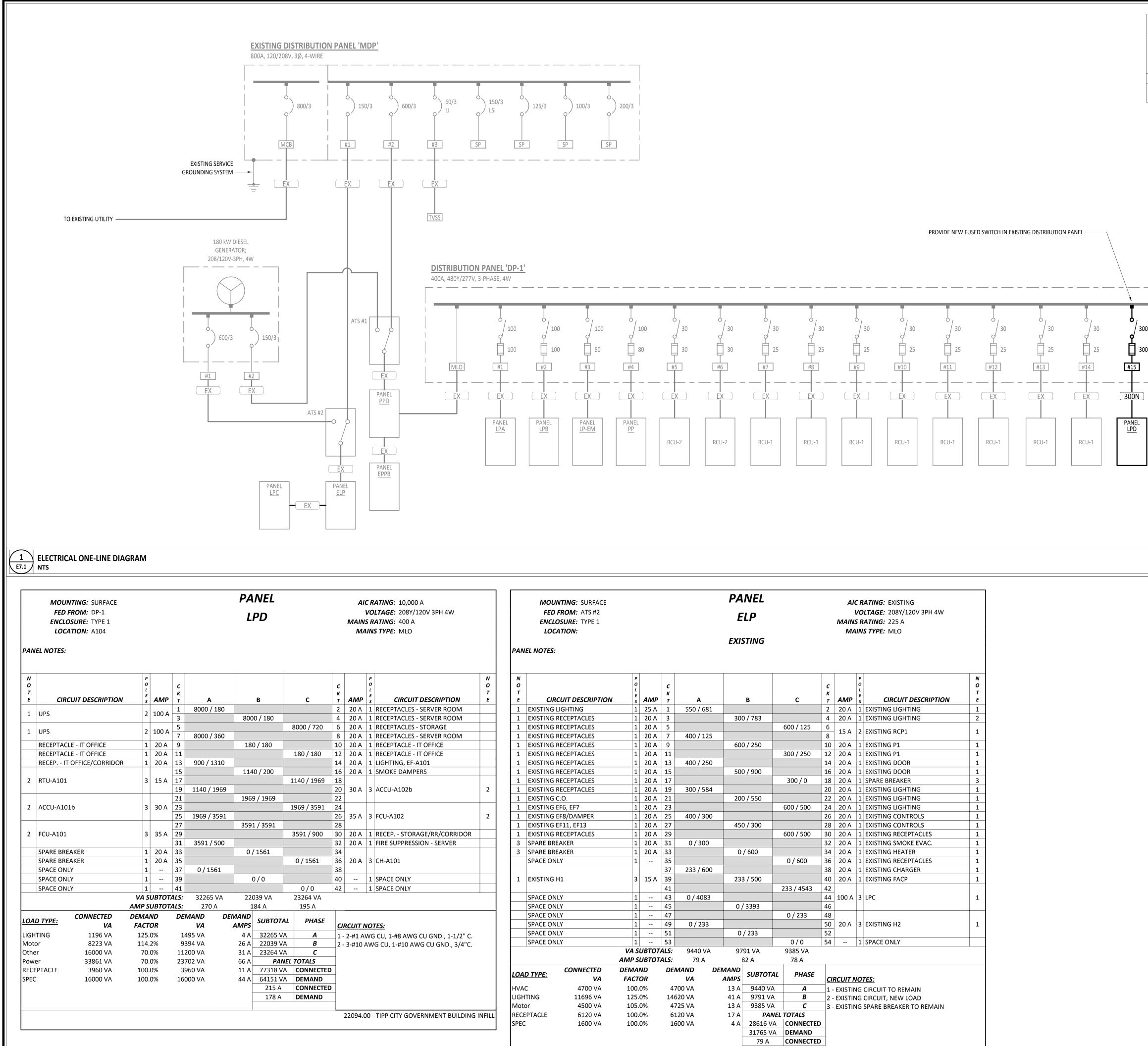
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	LUMINAIRE SCHEDULE												
	MOUNTIN		LAMPS			BALLAST/	FIXTURE	INPUT			BASIS OF DESIGN & APPROVEI		
MARK	G	TYPE	MIN. LUMENS	ССТ	CRI	DRIVER	VOLTAGE	WATTS	5 FIXTURE DESCRIPTION	COMMENTS	MANUFACTURERS		
A	RECESSED	LED	4000 lm	5000K	80 CRI	DIMMING DOWN TO	UNV	36 W	2'X4' LED FLAT PANEL, RECESSED IN GRID, FIELD SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE, WHTIE FINISH, CSA	LUMENS SHALL BE FIELD SET TO 4000 LM. COLOR TEMPERATURE SHALL BE FIELD SET TO 5000K.	LITHONIA   CPANL 2X4 AL06 SWW7 M2 COLUMBIA   CFP24-LSCS SERIES METALUX   FPS SERIES		
C	SURFACE	LED	800 lm	4000K	90 CRI	10% ELECTRONIC	120V	11 W	DAMP LOCATION LISTED. 22" LED LINKABLE UNDERCABINET LIGHT, SWITCHABLE COLOR TEMPERATURE, SLIM 1" HOUSING, LIGHT BAR PROVIDED WITH 20 DEGREE SWIVEL, FROSTED ACRYLIC DIFFUSER, WHITE FINISH. UL LISTED.	4000K. PROVIDE MOUNTING HARDWARE AND	DAY-BRITE   2SBP3550L8CS-4-UNV-DIM SEF JUNO   UPLD 22IN SWWR 90CRI WH COLUMBIA   CUC SERIES HALO   HU11 SERES ASD   ASD-UCS SERIES		
Е	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0 W	EXISTING FIXTURE TO REMAIN.				
ED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0 W	EXISTING FIXTURE TO BE DEMOLISHED.				
S	PENDANT	LED	5000 lm	5000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	28 W	4' LED STRIP LIGHT, FILED SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE, WHITE FINISH, CSA DAMP LOCATION LISTED.	TO MOUNT FLUSH WITH STRUCTURAL STEEL. LUMENS SHALL BE FIELD SET TO 5000 LM.	LITHONIA   CSS L48 AL03 MVOLT SWW3 80 COLUMBIA   CSL SERIES METALUX   SLSTP SERIES DAY-BRITE   SDS SERIES		
W	WALL	LED	2000 lm	5000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	17 W	LED EXTERIOR WALL PACK, DIE-CAST ALUMINUM HOUSING, BLACK FINISH, CSA WET LOCATION LISTED.	MOUNT 4" ABOVE DOOR.	LITHONIA   ARC1 LED P2 50K MVOLT DBLXI BEACON   QSP1 SERIES INVUE   CCW SERIES FC LIGHTING   FCW1038 SERIES		
Х	CEILING/WALL	LED	N/A	N/A	N/A	N/A	UNV	3 W	LED EXIT LIGHT, WHITE THERMOPLASTIC HOUSING, RED LETTERING, U.L. LISTED.	CONNECT AHEAD OF LOCAL SWITCHING.	LITHONIA   LQM S 3 R 120/277 COMPASS   CAR SERIES SURELITES   APX SERIES CHLORIDE   VERW SERIES		

ANDREW P. HUELSMAN E-78372 KEGISTERED ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023										
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TIPP CITY GOVERNMENT BUILDING INFILL										
ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023										
PROJECT NUMBER:     DRAWN BY:     CHECKED BY:       22094.00     AEM     CDS	22094.00 AEM CDS									
NUMBER:     DRAWN BY:     CHECKED BY:       22094.00     AEM     CDS										
NUMBER:     DRAWN BY:     CHECKED BY:       22094.00     AEM     CDS										



MOUNTING: SURFACE			PANEL									AIC RATING: EXISTING						
	ROM: ATS #2 SURE: TYPE 1 TION:				ELP							VOLTAGE: 208Y/120V 3PH 4W MAINS RATING: 225 A MAINS TYPE: MLO						
DTES:	non.						EXIS	STING				1017	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		ŀ	• 2		с						с		P O		N O			
	UIT DESCRIPTION		L   E	AMP	κ	А		В	С		к	AMP	L E	<b>CIRCUIT DESCRIPTION</b>	T E			
	GHTING	1		25 A	<u>т</u> 1	550 / 681		D	L		т 2	20 A	5 1	EXISTING LIGHTING	1			
	ECEPTACLES	1	_	20 A	3	5507 081	300	0 / 783			4	20 A		EXISTING LIGHTING	2			
	ECEPTACLES		_	20 A	5		300	5/785	600 / 125	;	6	20 A	1		Z			
	ECEPTACLES		_	20 A	7	400 / 125			000/12.	,	8	15 A	2	EXISTING RCP1	1			
	ECEPTACLES		_	20 A	9	400 / 125		0 / 250			10	20 A	1	EXISTING P1	1			
	ECEPTACLES		_	20 A	11		000	57250	300 / 250		12	20 A	-	EXISTING P1	1			
	ECEPTACLES	1	-	20 A	13	400 / 250			5007250		14	20 A		EXISTING DOOR	1			
	ECEPTACLES		_	20 A	15	4007230		0 / 900			16	20 A	-	EXISTING DOOR	1			
	ECEPTACLES	1	-	20 A	17		500	57 500	300/0		18	20 A		SPARE BREAKER	3			
	ECEPTACLES	1	_	20 A	19	300 / 584			50070		20	20 A		EXISTING LIGHTING	1			
ING C.		1	-	20 A	21	5007 504	200	0 / 550			22	20 A		EXISTING LIGHTING	1			
	-6, EF7	1	_	20 A	23		200	57 550	600 / 500		24	20 A		EXISTING LIGHTING	1			
	8/DAMPER	1	-	20 A	25	400 / 300			0007.500		26	20 A	-	EXISTING CONTROLS	1			
	-11, EF13	1	_	20 A	27	400 / 500		0 / 300			28	20 A		EXISTING CONTROLS	1			
	ECEPTACLES	1	-	20 A	29			57 300	600 / 500		30	20 A		EXISTING RECEPTACLES	1			
E BREA		1	_	20 A	31	0 / 300			0007 500		32	20 A		EXISTING SMOKE EVAC.	1			
E BREA		1	-	20 A	33	07300	0	/ 600			34	20 A	-	EXISTING HEATER	1			
E ONL		1			35			/ 000	0 / 600		36	20 A		EXISTING RECEPTACLES	1			
	•		-		37	233 / 600			0,000		38	20 A		EXISTING CHARGER	1			
ING H	1		3	15 A	39	2337000		3 / 500			40	20 A		EXISTING FACP	1			
ino n.	±		1	13 4	41		23.	57 500	233 / 454		42	20 A	-		<b>_</b>			
E ONL	/	1	1		41	0 / 4083			233/434		42	100 A	2		1			
EONL		1	1		45	074085	0./	3393			46	100 A	5		1			
E ONL			1		47		07	3393	0 / 233		40							
E ONL		1	1		49	0/233			07233		40 50	20 A	2	EXISTING H2	1			
E ONL		1			49 51	07233	0	/ 233			52	20 A	5		1			
E ONL			1		53			/ 233	0/0		52		1	SPACE ONLY				
	1	<u>_</u>	<u>-</u> 1</td <td>втот</td> <td></td> <td>9440 VA</td> <td>97</td> <td>91 VA</td> <td>9385 VA</td> <td></td> <td>7</td> <td></td> <td>1</td> <td></td> <td></td>	втот		9440 VA	97	91 VA	9385 VA		7		1					
				втот		79 A		32 A	78 A									
	CONNECTED	DEMA					DEMAND	5277										
<u>E:</u>	VA	FAC			DL	VA	AMPS	SUBTOTAL	. PHAS	SE		RCUIT N		rec,				
	4700 VA	100			۷.	700 VA	13 A	9440 VA	A		_							
	11696 VA	125				520 VA	41 A	9791 VA	B					CIRCUIT TO REMAIN CIRCUIT, NEW LOAD				
	4500 VA	105				725 VA	41 A 13 A	9385 VA	<u>с</u>					SPARE BREAKER TO REMAIN				
E	6120 VA	100				120 VA	17 A					LVIJIII	U.	DI ANE DILANEN TO REMAIN				
	1600 VA	100				500 VA	4 A	28616 VA	CONNEC	TED	-							
	2000 07	100		, .	T		- 7	31765 VA	DEMAN		-							
							-	79 A	CONNEC		-							
							-	88 A	DEMAN		-							
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		NO.	PH		NDUCTO	R SIZING UTRAL	GROUND SIZE	CONDUIT SIZE EACH			₩	ANDREW P. UELSMAN	
	MARK 300N	OF SETS	<b>QTY</b> 3	SIZE 350 KCMIL	<b>QTY</b>	SIZE 350 KCMIL	EACH SET #4 AWG	<b>SET</b> 2 1/2"	Comments		THOMAS ST	E-78372 REGISTERED ONAL EN	Alia Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Mari
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												TT NUMBER:	