

COMBINED SUPPORT MAINTENANCE SHOP (CSMS) INTERIOR RENOVATION & REROOF

IKE SKELTON TRAINING SITE JEFFERSON CITY, MISSOURI

OWNER: STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

DEPARTMENT OF PUBLIC SAFETY
OFFICE OF THE ADJUTANT GENERAL
MISSOURI NATIONAL GUARD
FACILITIES DIVISION

APPLICABLE CODES: 2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FUEL GAS CODE

DESIGNER: CASCO DIVERSIFIED
CORPORATION

PROJECT NUMBER: T2225-01
SITE NUMBER: 6300
ASSET NUMBER: 8136300007

CASCO

12 SUNNEN DR. SUITE 100
ST. LOUIS, MO 63143
ARCHITECTS / ENGINEERS
314-821-1100

CASCO DIVERSIFIED CORPORATION
MISSOURI STATE CERTIFICATE OF AUTHORITY #000613 (ENG)
MISSOURI STATE CERTIFICATE OF AUTHORITY #000329 (ARCH)

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ADDRESS:
2302 MILITIA DRIVE
JEFFERSON CITY, MO
65101



VICINITY MAP



SHEET NUMBER:
G-001
4/20/23
1 OF 22 SHEETS

GENERAL NOTES:

DESIGN:

BUILDING CODE - 2018 INTERNATIONAL BUILDING CODE

- 1. EXISTING ROOF DEAD LOAD = 15 PSF
- MINIMUM ROOF LIVE LOAD = 20 PSF
- TRIBUTARY AREA 0 TO 200 SQ. FT. = 20(1.2-0.001A) PSF
- TRIBUTARY AREA 201 TO 600 SQ. FT. = 12 PSF
- TRIBUTARY AREA OVER 600 SQ. FT.
- 2. SNOW LOADS: = 20 PSF
- GROUND SNOW LOAD, P_g
- 3. WIND LOADS: = 107 MPH
- ULTIMATE WIND SPEED (3 SEC. GUST), V_{ult}
- BASIC WIND SPEED, V_{basd} = 83 MPH
- RISK CATEGORY = II
- BUILDING CATEGORY = ENCLOSED SIMPLE DIAPHRAGM
- OVERALL EXPOSURE CATEGORY = C
- 4. SEISMIC: = II
- RISK CATEGORY = 1.0
- SEISMIC IMPORTANCE FACTOR, I_e = 1.0
- MAPPED SPECTRAL RESPONSE COEFFICIENTS
- S_s = 0.201
- S₁ = 0.109
- SITE CLASS = E
- SPECTRAL RESPONSE COEFFICIENTS
- SDS = 0.322
- SD1 = 0.305
- SEISMIC DESIGN CATEGORY = D

CONCRETE:

- 1. ALL CONCRETE SHALL BE NORMAL-WEIGHT (DENSITY=145 PCF) AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:
- ALL FOUNDATIONS, INTERIOR SLAB = 3000psi
- EXTERIOR SLABS, CURBS, SIDEWALKS = 4000psi
- ALL OTHER CONCRETE (U.N.O.) = 3000psi
- 2. THE SLUMP OF ALL CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 10".
- 3. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED WITH BETWEEN 4% AND 8% AIR CONTENT.
- 4. THE COARSE AGGREGATE SIZE SHALL BE #57 OR LARGER.
- 5. THE MINIMUM PORTLAND CEMENT CONTENT (ASTM C150 TYPE I OR II) OF ALL CONCRETE SHALL CONFORM TO THE FOLLOWING TABLE (FLY ASH NOT PERMITTED):

SPECIFIED COMPRESSIVE STRENGTH (psi)	NON AIR-ENTRAINED CONCRETE (lbs.)	AIR-ENTRAINED CONCRETE (lbs.)
3000	470	517
4000	564	611

- 6. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW A MINIMUM OF ONE WEEK PRIOR TO THE PLACEMENT OF ANY CONCRETE. THE CONCRETE MIX DESIGNS SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD.
- 7. CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- 8. CONCRETE REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- 9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 10. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL.
- 11. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE".
- 12. THE MINIMUM CONCRETE CLEAR COVER OVER REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE:
 - UNFORMED SURFACE IN CONTACT WITH THE GROUND = 3 IN.
 - FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
 - #5 BARS AND SMALLER = 1 1/2 IN.
 - #11 BARS AND SMALLER = 3/4 IN.
- 13. ALL BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., WHICH ARE BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.

STRUCTURAL STEEL:

- 1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
 - WIDE FLANGE SHAPES = A992 OR A572 GR. 50 (F_y = 50)
 - CHANNELS, ANGLES, PLATES, ETC. (UNO) = A36 (F_y = 36)
 - STRUCTURAL TUBE = A500 (F_y=46)
 - STEEL PIPE = A53 (F_y=35)
 - THREADED RODS = F1554, A36 OR A307
 - BOLTS = A325
 - WELDING ELECTRODES = E70XX
- 2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (360-05), EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
- 3. ALL STRUCTURAL STEEL TO HAVE A SHOP GRADE PRIMER UNLESS NOTED OTHERWISE.

MISCELLANEOUS:

- 1. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
- 2. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- 3. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
- 4. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- 5. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 6. ANY DETAIL TITLED AS A TYPICAL DETAIL IS APPLICABLE THROUGHOUT THE DESIGN DRAWINGS. THESE DETAILS ARE DEFINED AS GENERAL STANDARDS THAT ARE USUALLY NOT IDENTIFIED BY SPECIFIC REFERENCE WITHIN THE DRAWINGS. THESE DETAILS MAY BE MODIFIED OR SUPERSEDED BY SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

EXISTING CONSTRUCTION:

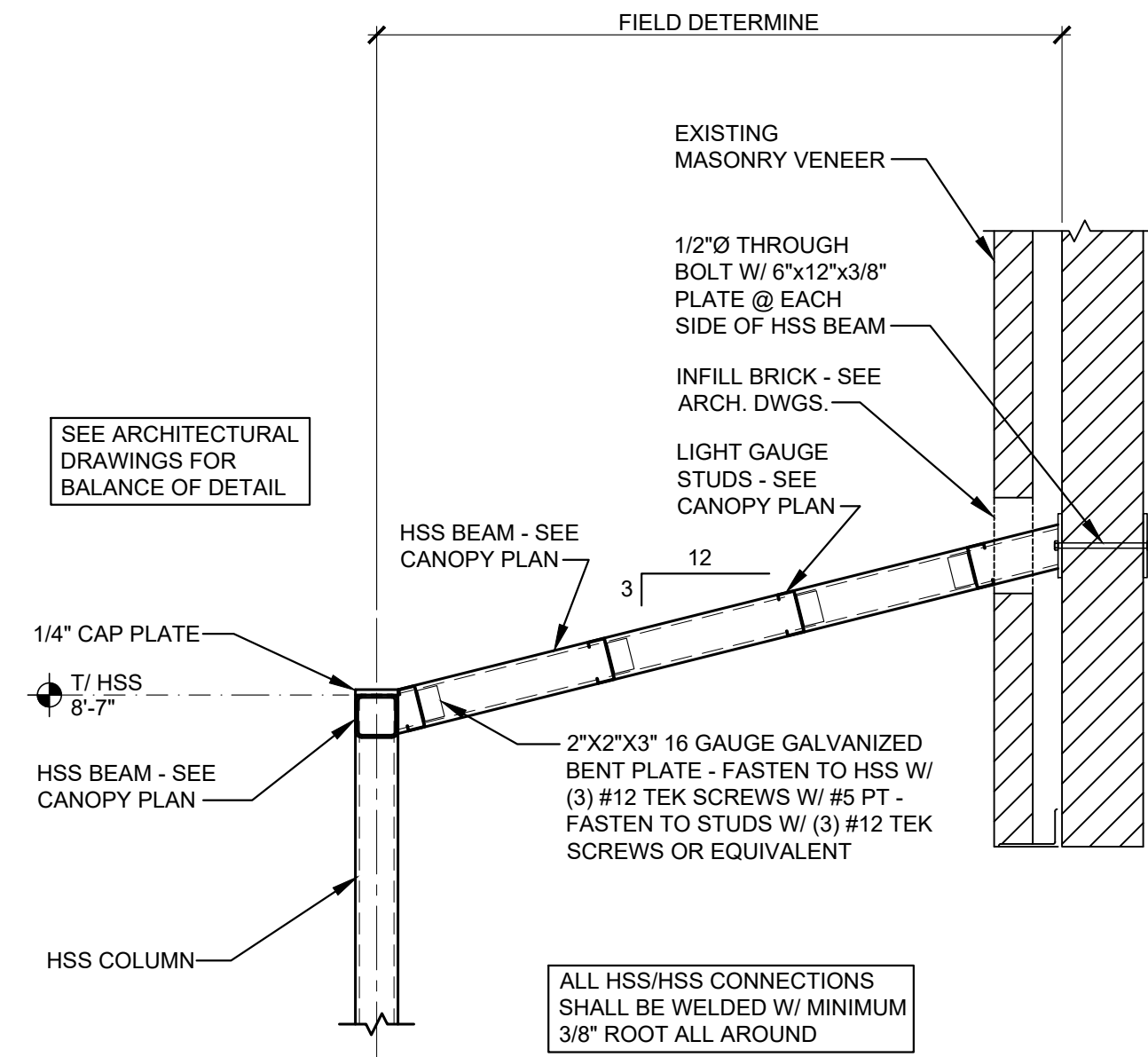
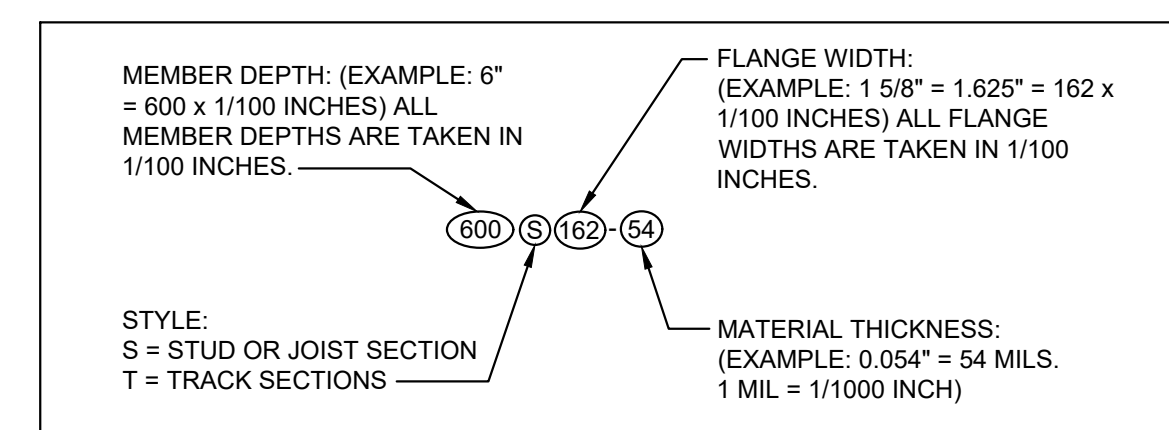
- 1. WORK SHOWN IS NEW UNLESS INDICATED AS EXISTING.
- 2. EXISTING CONSTRUCTION SHOWN IS BASED UPON ASSUMED EXISTING CONDITIONS AND CAN BE USED FOR BIDDING PURPOSES. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL DRAWINGS AND VERIFY DIMENSIONS, ELEVATIONS, AND MEMBER SIZES PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. THE CONTRACTOR SHALL NOTIFY THE PROFESSIONAL OF RECORD IN WRITING OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.
- 3. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR REMOVAL WITH THE NEW WORK, THE PROFESSIONAL OF RECORD SHALL BE IMMEDIATELY NOTIFIED AND PRIOR WRITTEN APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OR MODIFICATION OF MEMBERS.
- 4. THE CONTRACTOR SHALL RESTORE ALL EXISTING INCIDENTAL CONSTRUCTION REQUIRED TO BE REMOVED TO ACCOMMODATE THE ERECTION OF THE NEW JOIST CONSTRUCTION TO ITS ORIGINAL WORKING CONDITION.
- 5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS & METHOD OF ALL DEMOLITION WORK & FOR PROVIDING ALL NECESSARY TEMPORARY SHORING, BRACING & PROTECTION AS NECESSARY FOR SAFETY, STABILITY & PROTECTION OF ALL BUILDING ELEMENTS & STRUCTURE DURING CONSTRUCTION & DEMOLITION.

FOUNDATIONS:

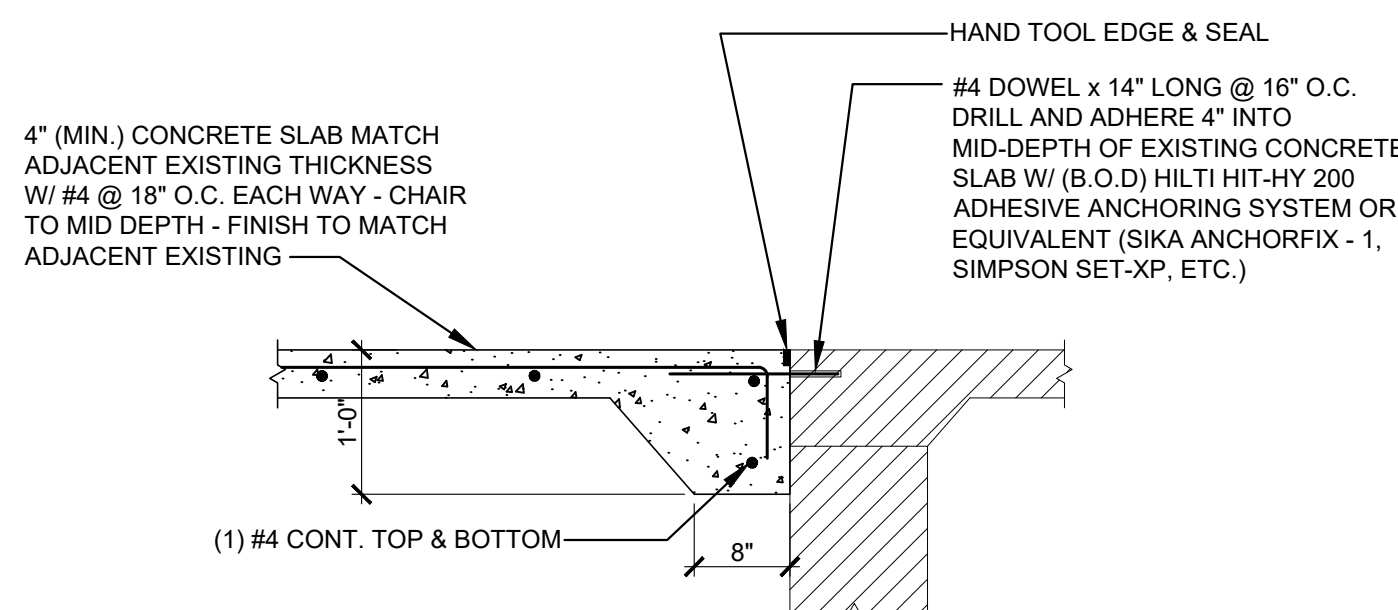
- 1. THE FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING A PRESUMED NET ALLOWABLE BEARING PRESSURE OF 1500PSF
- 2. ALL EXPOSED AND/OR DISTURBED GRANULAR BASE AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557 AT OPTIMUM MOISTURE CONTENT AND TO A MINIMUM DEPTH OF 8" - ALL SUBGRADE SOIL AREAS EXPOSED BY EXCAVATIONS AND GRADING SHALL BE COMPACTED TO A MINIMUM OF 95% OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557 AT OPTIMUM MOISTURE CONTENT AND TO A MINIMUM DEPTH OF 12" - FILL WHERE REQUIRED SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" LOOSE MEASURE AND SHALL BE COMPACTED AS OUTLINED ABOVE - THE ON SITE TESTING COMPANY SHALL PROVIDE TESTING AND INSPECTION OF THE SOIL WORK PRIOR TO PLACING CONCRETE
- 3. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.
- 4. FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.

COLD FORMED STEEL:

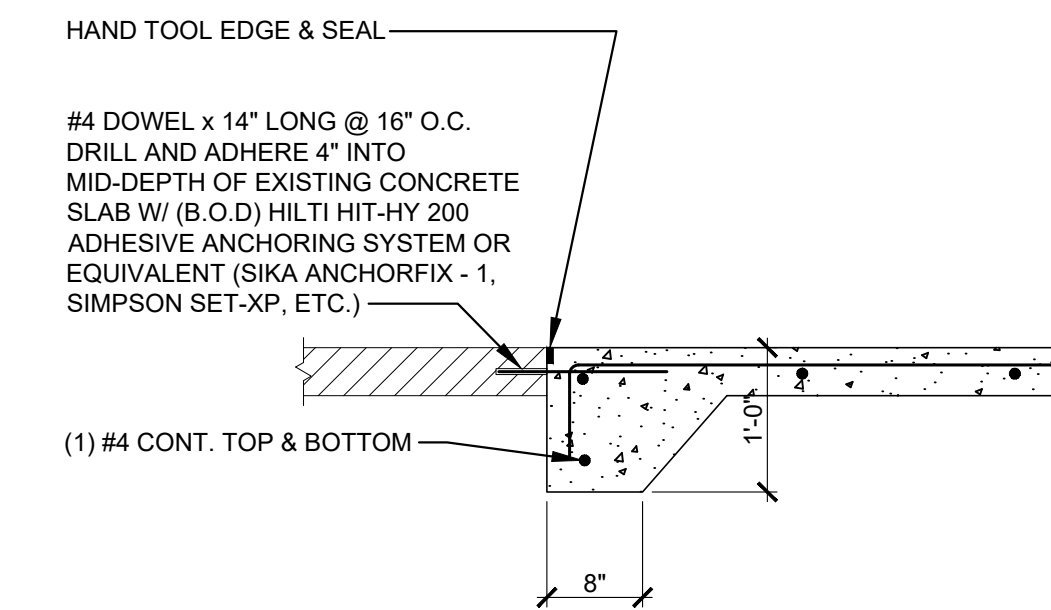
- 1. ALL SIZING BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (ICBO ER-4943P) PRODUCT TECHNICAL INFORMATION.
- 2. ALL GALVANIZED STUDS AND JOISTS 12, 14 AND 16 GAUGE SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A653 S5, GRADE 50, CLASS 1 OR 3 WITH A MINIMUM YIELD OF 50,000 PSI.
- 3. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A525.
- 4. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE STEEL STUD MANUFACTURER ASSOCIATION AND AISI DESIGN MANUAL SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS. SPECIFICALLY, THE FOLLOWING MINIMUM PROPERTIES, CALCULATED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATION SHALL BE PROVIDED: IX (IN 4), SX (IN 3), AREA (IN 2), RX (IN.), FY (KSI), RESISTING MOMENT (IN.-L.).
- 5. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING PRIOR TO DELIVERY, BY THE ARCHITECT AND/OR ENGINEER OF RECORD.
- 6. INSTALLATION OF STUDS SHALL BE AS PER ASTM C1007-00 "INSTALLATION OF LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS AND ACCESSORIES", ASTM C955-00a "SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS, RUNNERS (TRACK), AND BRACING OR BRIDGING FOR SCREW APPLICATION OF GYPSUM BOARD AND METAL PLASTER BASES", AND ASTM C754-00 "SPECIFICATION FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW ATTACHED GYPSUM BOARD".
- 7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
- 8. JOISTS MUST HAVE A MINIMUM OF 10" UNPUNCHED STEEL AT BEARING POINTS. STUDS MUST HAVE A MINIMUM OF 10" OF UNPUNCHED STEEL AT EACH END.
- 9. COLD-FORMED STEEL IDENTIFICATION LEGEND:



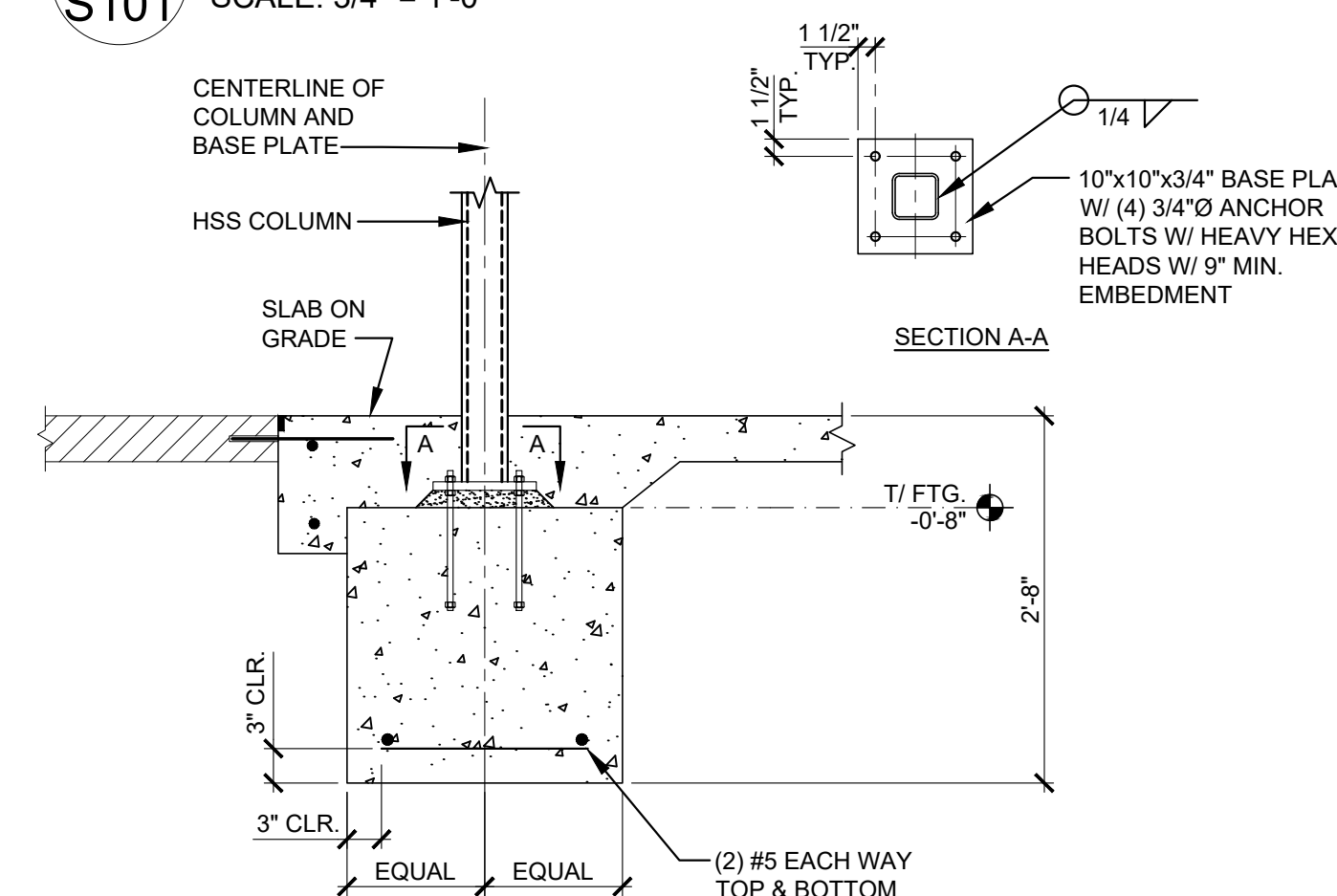
3 SECTION
S101 SCALE: 3/4" = 1'-0"



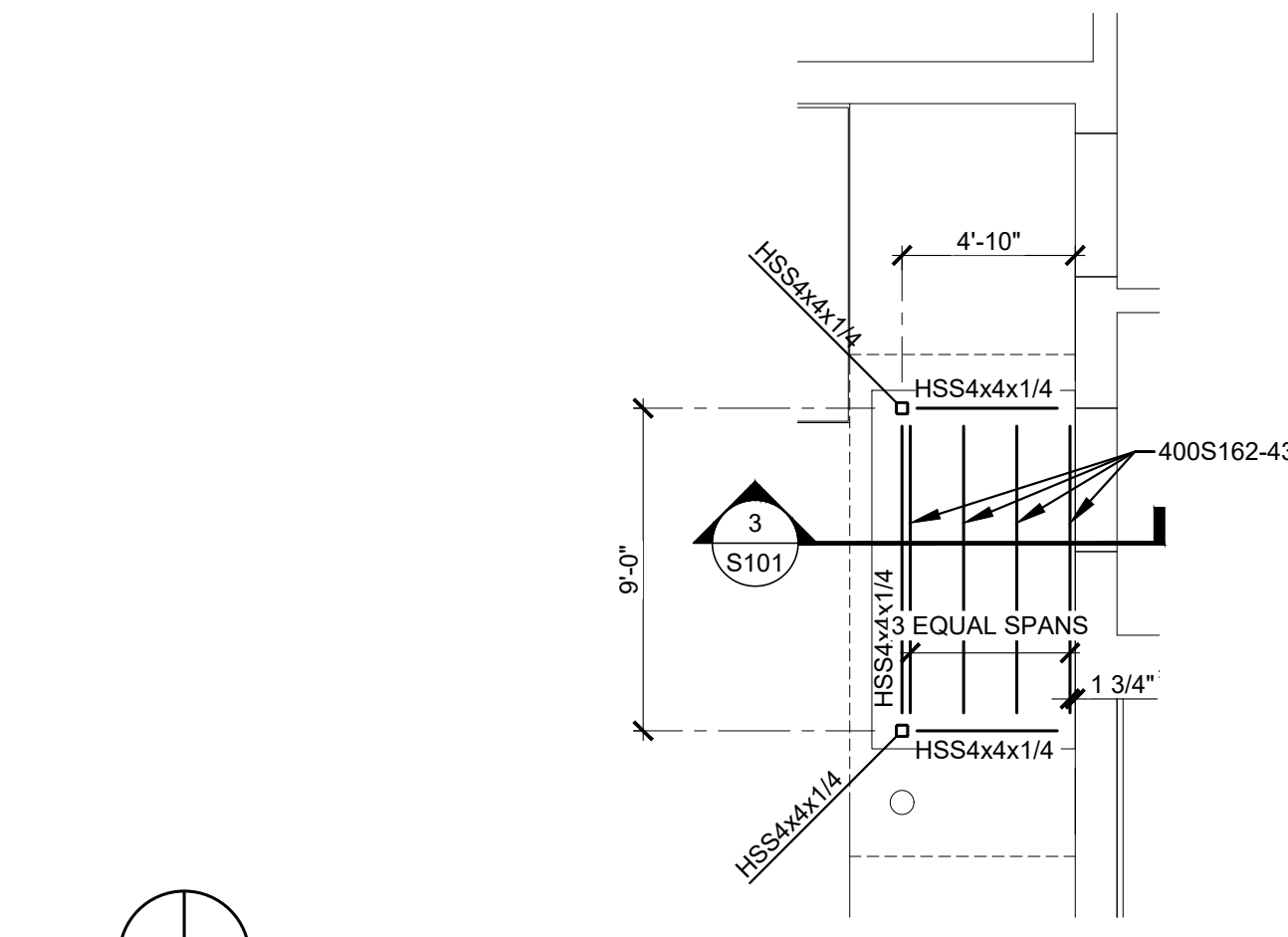
6 SECTION
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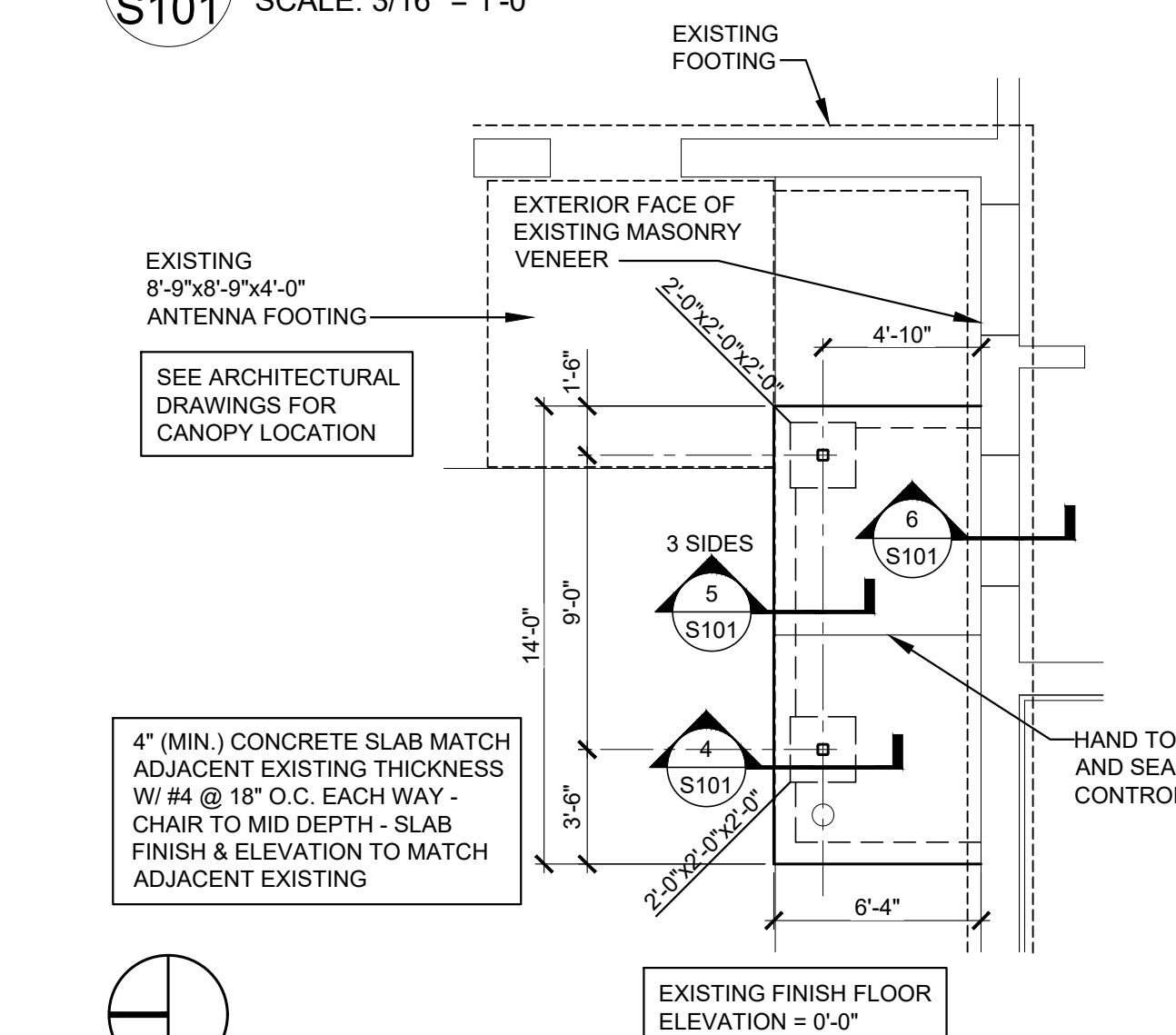
5 SECTION
S101 SCALE: 3/4" = 1'-0"



4 SECTION
S101 SCALE: 3/4" = 1'-0"



2 SECTION
S101 SCALE: 3/16" = 1'-0"



1 SECTION
S101 SCALE: 3/16" = 1'-0"



**OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION**

**MISSOURI NATIONAL
GUARD**

INTERIOR RENOVATIONS &
ROOF REPLACEMENT AT
COMBINED SUPPORT
MAINTENANCE SHOP (CSMS)

COMBINED SUPPORT
MAINTENANCE SHOP (CSMS)
2302 MILITIA DRIVE
JEFFERSON CITY, MISSOURI
65101

PROJECT # T2225-01
SITE # 6300
ASSET# 8136300007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 04/20/2023

CAD DWG FILE: _____
DRAWN BY: BWT
CHECKED BY: MAS
DESIGNED BY: ND

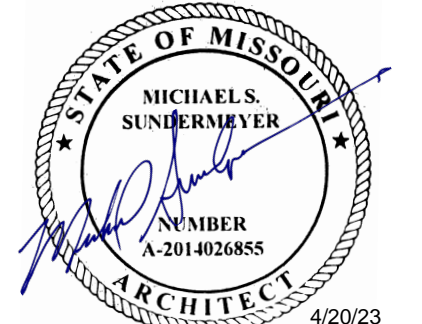
SHEET TITLE:

**STRUCTURAL
GENERAL NOTES,
PLANS AND DETAILS**

SHEET NUMBER:

S-101

4/20/23
2 OF 22 SHEETS



MICHAEL S. SUNDERMEYER
License Number: 2014026855
Expiration Date: 12/31/24

CASCO Diversified Corporation
MO Certificate of Authority #000329 Arch.
MO Certificate of Authority #000613 Eng.

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

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SITE # 6300
ASSET# 813630007

REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 04/20/2023

CAD DWG FILE: _____
DRAWN BY: KMS
CHECKED BY: RAR
DESIGNED BY: RAR

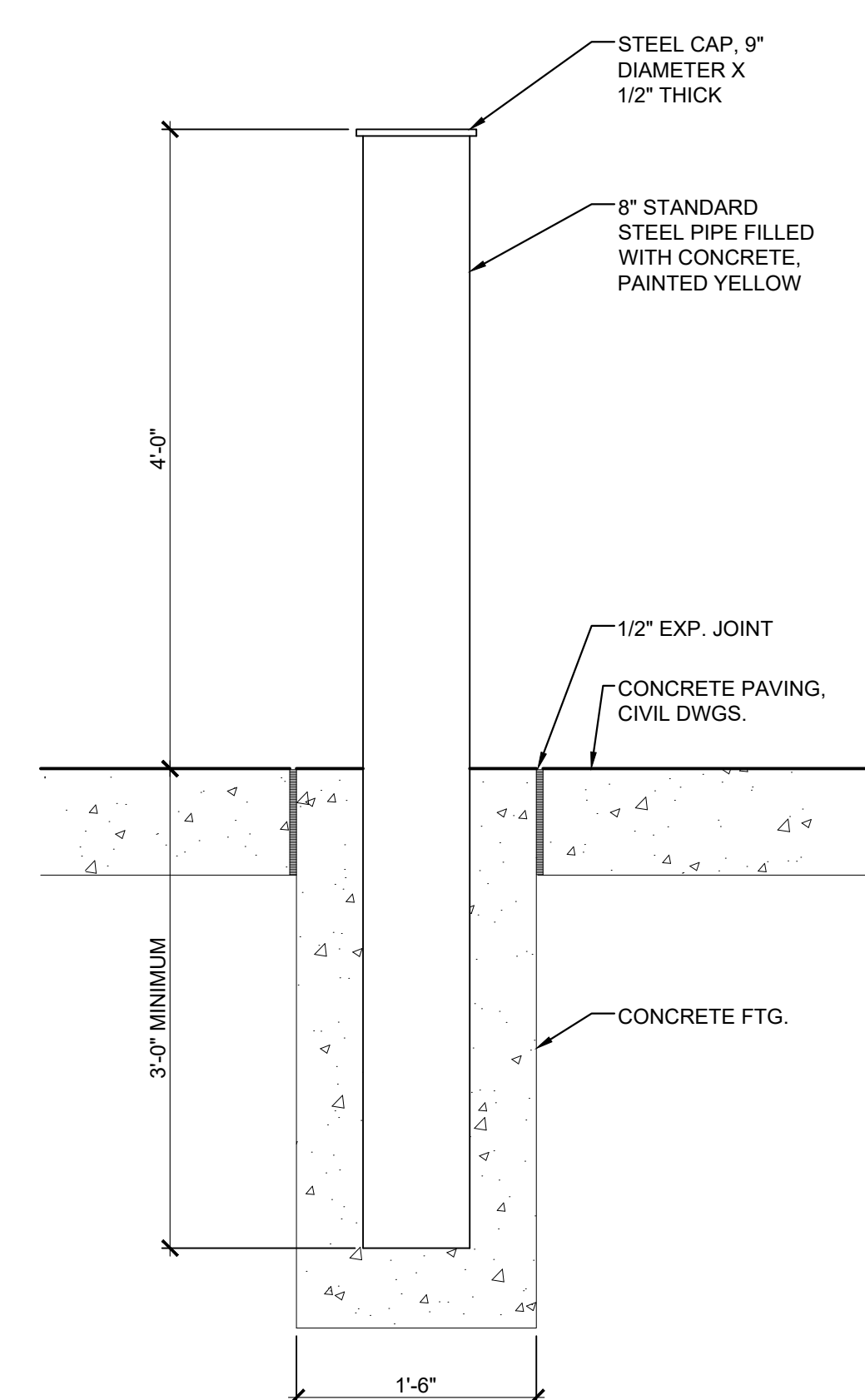
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ARCHITECTURAL
SITE PLAN

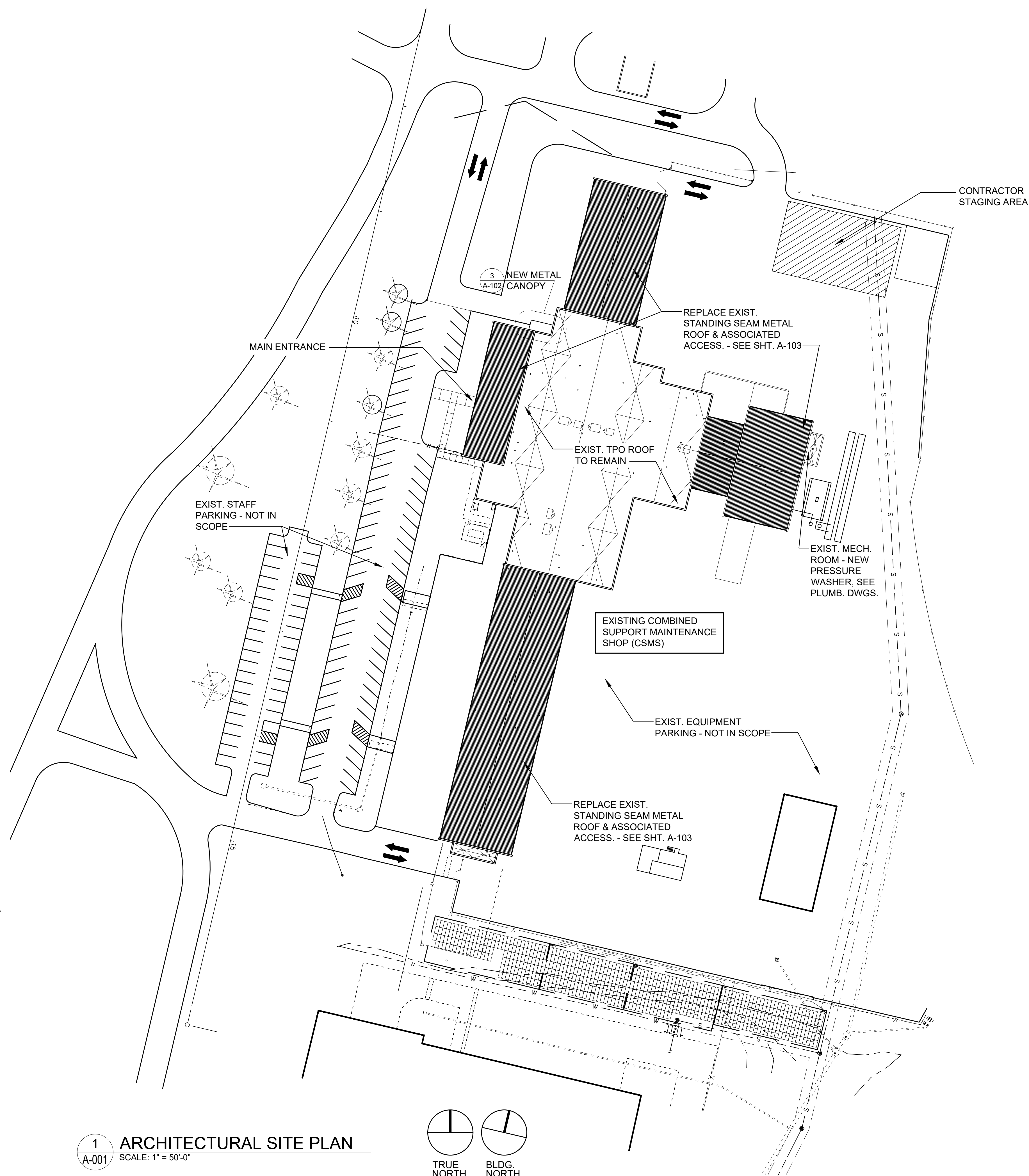
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A-001

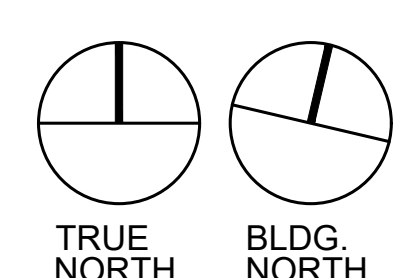
4/20/23
3 OF 22 SHEETS



2 BOLLARD DETAIL
SCALE: 1" = 1'-0"



1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 50'-0"





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License Number: 2014026855
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DATE:
ISSUE DATE: 04/20/2023

CAD DWG FILE:
DRAWN BY: KMS
CHECKED BY: RAR
DESIGNED BY: RAR

SHEET TITLE:
CODE DATA, EGRESS
FLOOR PLAN, NOTES
& SYMBOLS

SHEET NUMBER:

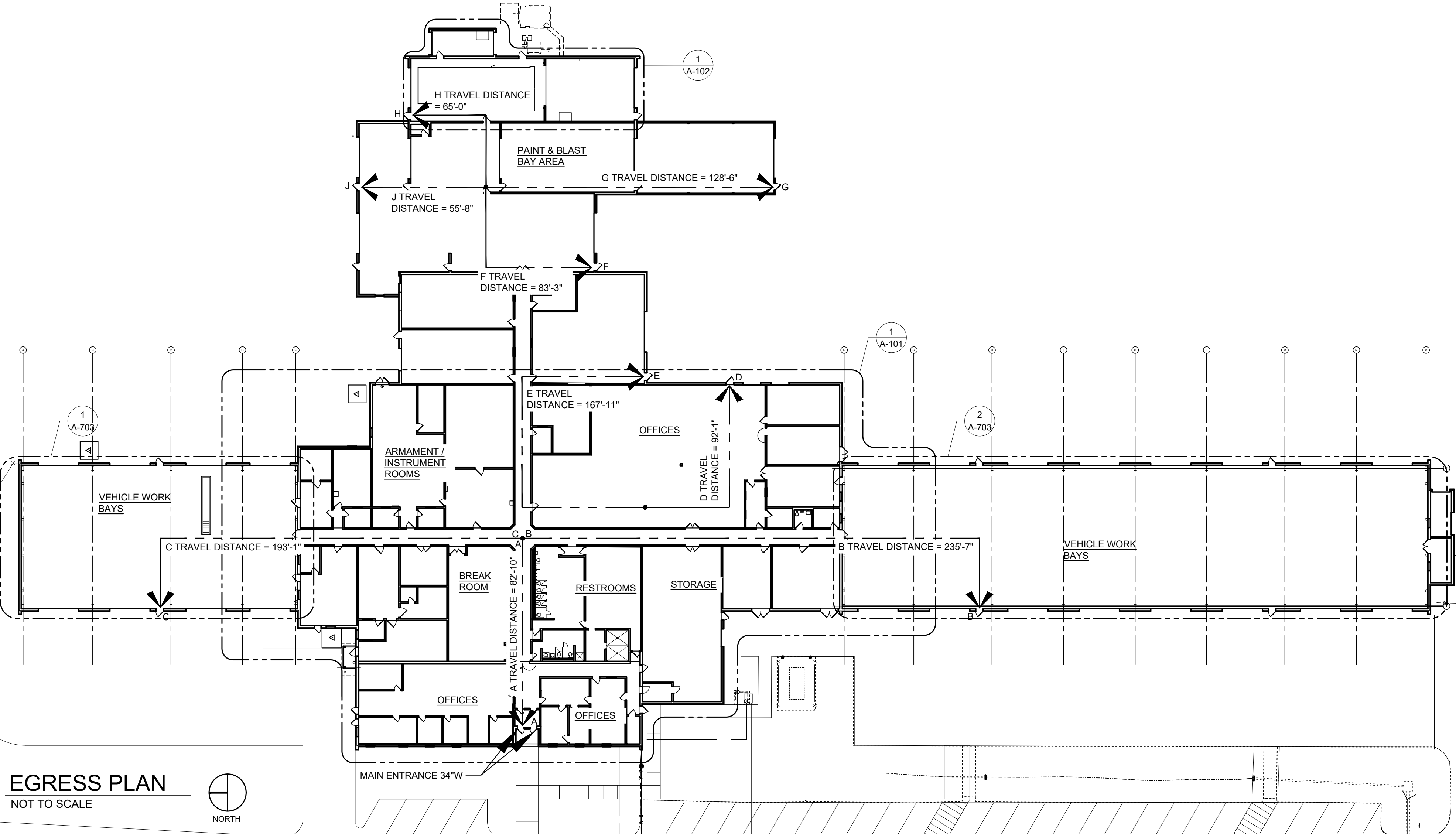
A-002

4/20/23
4 OF 22 SHEETS

GENERAL NOTES:

- AT THE TIME OF SUBMITTING FINAL BID, THE G.C. SHALL VERIFY ALL RELEVANT DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE AFFECTED WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO PROCEEDING WITH AFFECTED WORK.
- THE CONTRACTOR SHALL CONTAIN ALL CONSTRUCTION ACTIVITY (WHICH SHALL INCLUDE STORAGE OF MATERIALS AND EQUIPMENT) WITHIN THE LIMITS OF CONSTRUCTION.
- SEE ALTERNATES BELOW FOR ITEMS OUTSIDE OF BASE SCOPE OF WORK.
- ALL NEW BUILDING MATERIALS TO BE OF NON-COMBUSTIBLE OR WOOD FIRE RETARDANT TREATED MATERIAL.
- THE CONTRACTOR SHALL COMPLY WITH FEDERAL ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND RECOMMENDATIONS REGARDING MOLD AND MILDEW.
- IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME THE PRESENCE OF MOLD AND / OR MILDEW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE ARCHITECT / ENGINEER OF RECORD, IN WRITING, OF THE CONCERNS AND/OR SUSPICIONS.
- THE CONTRACTOR SHALL CONTAIN ALL CONSTRUCTION ACTIVITY (WHICH SHALL INCLUDE STORAGE OF MATERIALS AND EQUIPMENT) WITHIN THE LIMITS OF CONSTRUCTION OR WITHIN THE DESIGNATED STAGING AREA AS DETERMINED BY THE PRE-BID MEETING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SURFACES DAMAGED BY CONSTRUCTION ACTIVITY THAT IS UNDER THE CONTROL OF THE CONTRACTOR (THIS INCLUDES ALL SUBCONTRACTOR WORK). REPAIRS SHALL MATCH EXISTING MATERIALS AND BE APPROVED BY THE OWNER.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION.
- THE CONTRACTOR SHALL ENSURE THAT ALL MOISTURE AND DEBRIS HAVE BEEN ELIMINATED PRIOR TO INSTALLING NEW MATERIALS AND PREPARE SURFACE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. REFERENCE SPECIFICATIONS FOR FURTHER DIRECTION.
- SHOULD THE CONTRACTOR OBSERVE ANY DETERIORATED MATERIALS OR DAMAGED STRUCTURAL CONDITIONS, THE ARCHITECT AND OWNER SHALL BE NOTIFIED.
- CONTRACTOR SHALL INSPECT ALL INTERNAL /EXTERNAL ROOF DRAINS AND INCLUDE ALL COMPONENTS NECESSARY TO CONSTRUCT A COMPLETE DRAINAGE SYSTEM.
- ANY EQUIPMENT NOT IDENTIFIED TO BE REMOVED IS TO REMAIN UNLESS NOTED OTHERWISE.
- THE CONTRACT WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, TOOLS, LABOR & SERVICES NECESSARY FOR COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP & FOR COMPLIANCE WITH THE DESIGN. THE CONTRACTOR SHALL CORRECT ALL ERRORS & DEVIATIONS AS REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY OF ALL REFURBISHED MATERIALS. ALL REFURBISHED MATERIALS TO APPEAR NEW.
- THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE AFFECTED WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO PROCEEDING WITH AFFECTED WORK.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS ON THE DRAWINGS CONFLICT WITH THE NOTES OR SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL APPLY.
- JOB SITE CLEANING: DURING DEMOLITION & CONSTRUCTION, THE JOB SITE SHALL BE CLEANED ON A DAILY BASIS, INCLUDING REMOVAL OF TRASH, RUBBLE, DEBRIS & ORGANIZATION OF MATERIALS & EQUIPMENT. UPON COMPLETION OF THE WORK, THE JOB SITE SHALL BE THOROUGHLY CLEANED, INCLUDING AREAS OF THE BUILDING MADE DIRTY BY CONSTRUCTION WORK. THE G.C. SHALL REMOVE TRASH, RUBBLE, TOOLS, EQUIPMENT & EXCESS MATERIALS FROM THE PREMISES. THE BUILDING IS TO BE LEFT IN A CLEAN CONDITION.
- THE CONTRACTOR IS TO PROVIDE SUPERVISION OF ALL TRADES / SUBS, AS WELL AS ON-SITE SUPERVISION DURING ALL CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL DUMPSTERS REQUIRED FOR EXECUTION OF THE PROJECT SCOPE INCLUDING DISPOSAL OF ALL NON-REUSED FIXTURES.
- IF ROOF PENETRATIONS ARE REQUIRED ON EXISTING ROOF, THEN THE CONTRACTOR SHALL EMPLOY A ROOFING CONTRACTOR TO MAINTAIN EXISTING WARRANTIES.
- CONTRACTOR SHALL PROVIDE 10 WORKING DAY NOTICE PRIOR TO START OF DEMOLITION IN ARMAMENT / INSTRUMENT ROOMS FOR COORDINATION WITH GUARD STAFF ON WORKBENCH / EQUIPMENT REMOVAL.

EGRESS PLAN
NOT TO SCALE



SCOPE OF WORK:

MAIN BUILDING:

- REPLACE THE EXISTING STANDING SEAM METAL ROOF AND ALL ASSOCIATED ACCESSORIES AT ALL LOCATIONS WITH THE EXCEPTION OF THE ROOF OVER THE SHOP BAY IN THE PAINT / BLAST AREA. ACCESSORIES INCLUDE FASCIA, SOFFITS, GUTTERS, DOWNSPOUTS, METAL COPING AND ALL DAMAGED WOOD BLOCKING AT PARAPETS. ALL NEW METAL IS TO BE PREFINISHED, COLOR TO BE SELECTED BY ARCHITECT AND OWNER.
- ADD ADDITIONAL LED LIGHTS IN THE ARMAMENT AND INSTRUMENT ROOMS.
- REPLACE EXISTING ESD FLOOR TILES IN ARMAMENT, INSTRUMENT REPAIR, STORAGE ROOM, AND CALIBRATE ROOM. REPLACE EXISTING VCT IN RAD ROOM.
- ADD NEW METAL CANOPY OVER DELIVERIES DOOR, INCLUDE CONCRETE FILLED PIPE BOLLARD PROTECTION

NORTH AND SOUTH WORK BAYS:

- REPLACE ALL EXISTING LIGHTING WITH NEW LED FIXTURES
- REMOVE ALL EXISTING CEILING FANS AND REPLACE FEWER, LARGER FANS
- REPLACE EXISTING GAS-FIRED, INFRARED UNITS IN THEIR ENTIRETY

BID ALTERNATES:

ALTERNATE 1 - REPLACE GAS-FIRED, INFRARED HEATING SYSTEM IN NORTH AND SOUTH WORK BAYS.

ALTERNATE 2 - REPLACE ALL OVERHEAD DOORS AND MOTORS THROUGH BUILDING AND NORTH & SOUTH WORK BAYS, WITH EXCEPTION OF TWO OVERHEAD DOORS AT PAINT AND BLAST BAYS ADDITION.

ALTERNATE 3 - ADD NEW HEATED, WET PRESSURE WASHER SYSTEM TO EXISTING MECHANICAL ROOM ON EAST SIDE OF PAINT AND BLAST BAYS. RELOCATE EXISTING WATER BLASTER FROM WASH BAY TO MECHANICAL ROOM.

ALTERNATE 4 - REFINISH FRONT OFFICES - NEW PAINT, LIGHTING UPGRADES FROM FLUORESCENT TO LED FIXTURES, FLOORING, AND VINYL WALL BASE.

MATERIAL KEY

	NEW CONSTRUCTION		STEEL
	NEW BRICK		CONCRETE
	NEW CMU		DEMOLITION
	NEW DEMOLITION		DEMOLITION DOOR
	EXIST. CONSTRUCTION		NEW DOOR
	EXISTING DOOR		

SYMBOL LEGEND

	FINISH FLOOR EL: 100'-0"		COLUMN BUBBLE
	SECTION CUTS		ENLARGED PLAN / DETAIL BUBBLE
	EXTERIOR ELEV. TAG		INTERIOR ELEV. TAG
	ROOM TAG		EQUIP. TAG
	KEYED NOTE		PARTITION TYPE
	DOOR TAG		

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR	FOM FACE OF MASONRY	OPNG OPENING
AC ACOUSTICAL	FRP FIBERGLASS REINFORCED	OPH OPPOSITE HAND
A/C AIR CONDITIONING	PLASTIC FINISHED	OD OUTSIDE DIAMETER
ALT ALTERNATE	FFE FINISHED FLOOR ELEV.	ODD OUT TO OUT
ALUM ALUMINUM	FFL FINISHED FLOOR LINE	OA OVERALL
ANCH ANCHOR BOLT	FE FIRE EXTINGUISHER	OH OVERHEAD
ARCH ARCHITECT(URAL)	FEC FIRE EXTINGUISHER CABINET	PTD PAINT(ED)
BRG BEARING	FT FIRE TREATED	PKS PARKING
BM BENCH MARK	FLG FLASHING	PLAM PLASTIC LAMINATE
BLK BLOCK	FLR FLOOR	PL PLATE
BLKG BLOCKING	FD FLOOR DRAIN	PWD PLYWOOD
BD BOARD	FTG FOOTING	PVC POLYVINYL CHLORIDE
B.O. BOTTOM OF	FDN FOUNDATION	PSF POUNDS PER SQUARE FT.
BRK BRICK	FUR FURRED(ING)	PSI POUNDS PER SQUARE IN.
BLDG BUILDING	GA GAGE, GAUGE	PT PRESSURE TREATED
CAB CABINET	GALV GALVANIZED	PTL PROPERTY LINE
CLG CEILING	GC GENERAL CONTRACT(OR)	REM REMOVE
CL CENTER LINE	GL GLASS, GLAZING	RET RETURN
C/O CENTER OF	GYP GYPSUM	RH RIGHT HAND
CC CENTER TO CENTER	GWB GYPSUM WALL BOARD	RD ROOF DRAIN
CLR CLEAR	HTG HEATING	RFG ROOFING
COL COLUMN	HVAC HEATING/VENTILATION	RM ROOM
CONC CONCRETE	HT HEATING/VENTILATION	RO ROUGH OPENING
CMU CONCRETE MASONRY UNIT	HT AIR CONDITIONING	SLNT SEALANT
CONSTR CONSTRUCTION	HC HEIGHT	SECT SECTION
CONTR CONTRACTOR	HM HOLLOW CORE	SHTG SHEATHING
CONT CONTINUOUS	HM HOLLOW METAL	SHT SHEET
CONTR COUNTER	HOR HORIZONTAL	SIM SIMILAR
CFL COUNTER FLASHING	HB HOSE BIBB	SC SOLID CORE
CRS COURSE(S)	INSUL INSULATE(D), (ION)	SF SQUARE FOOT
CF CUBIC FOOT	INT INTERIOR	SI SQUARE INCH
CY CUBIC YARD	JST JOIST	SY SQUARE YARD
DL DEAD LOAD	JT JOINT	STD STANDARD
DEM DEMOLISH, DEMOLITION	LH LEFT HAND	STO STORAGE
DTL DETAIL	LF LINEAL FOOT	SUSP SUSPENDED
DIAG DIAGONAL	L LINTEL	SYM SYMMETRY, (ICAL)
DIA DIAMETER	LL LIVE LOAD	TEL TELEPHONE
DIM DIMENSION	MACH MACHINE	THK THICKNESS
DR DOOR	MH MANHOLE	T&G TONGUE & GROOVE
DS DOWN SPOUT	MFR MANUFACTURER	TOM TOP OF MASONRY
D DRAIN	MAS MASONRY	TPO THERMOPLASTIC POLYOLEFIN
DWG DRAWING	MO MASONRY OPENING	TS TOP OF STEEL
DF DRINKING FOUNTAIN	MAX MAXIMUM	TOS TOP OF STEEL
ELEC ELECTRICAL	MECH MECHANICAL	TW TOP OF WALL
ELEV ELEVATION	MED MEDIUM	TOW TOP OF WALL
EMER EMERGENCY	MTL METAL	TYP TYPICAL
ESD ELECTROSTATIC DISSIPATIVE	M METERS(S)	UNO UNLESS NOTED OTHERWISE
EQ EQUAL	MW MILLWORK	VERT VERTICAL
EXIST EXISTING	MIN MINIMUM	WC WATER CLOSET
EXP EXPOSED	MISC MISCELLANEOUS	WWF WELDED WIRE FABRIC
EXT EXTERIOR	MOUNT(MT), (ING)	WID WIDTH, WIDE
	NOM NOMINAL	WIN WINDOW
	NTS NOT IN CONTRACT	W/O WITHOUT
	OC ON CENTER(S)	WD WOOD

CODE DATA

SCOPE OF WORK DOES NOT CHANGE EXISTING BUILDING SIZE OR OCCUPANCY.

THESE PLANS WERE PREPARED AND SHALL COMPLY WITH THE FOLLOWING CODES:

2018 INTERNATIONAL BUILDING CODE	MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT: (IBC TABLE 1004.1.2):
2012 INTERNATIONAL ENERGY CONSERVATION CODE	-GARAGE WORK BAYS 200 GROSS
2018 INTERNATIONAL PLUMBING CODE	-OFFICES 150 GROSS
2018 INTERNATIONAL MECHANICAL CODE	-LOCKER ROOMS 50 GROSS
2017 NATIONAL ELECTRICAL CODE	-ACCESSORY STORAGE AREAS 300 GROSS
	-STORAGE ROOMS 300 GROSS

OCCUPANCY CLASSIFICATION (MIXED OCCUPANCY):

USE GROUP TYPES:

B: BUSINESS (IBC 304)	40,697 S.F. AT 200 S.F. / PERSON = 1,357 PERSONS (WORK BAYS)
F-1: FACTORY INDUSTRIAL, MODERATE-HAZARD (IBC 306.2)	17,779 S.F. AT 150 S.F. / PERSON = 119 PERSONS (OFFICE)
F-2: FACTORY INDUSTRIAL, LOW-HAZARD (IBC 306.3)	2,835 S.F. AT 50 S.F. / PERSON = 57 PERSONS (LOCKER ROOMS)
H-2: HIGH HAZARD, GROUP H-2 (IBC 307.4)	3,913 S.F. AT 300 S.F. / PERSON = 13 PERSONS (STORAGE/UTILITY AREA)
S-1: STORAGE, MODERATE-HAZARD (IBC 306.3)	TOTAL = 1,546 PERSONS
S-2: STORAGE, LOW-HAZARD (IBC 311.3)	

MEANS OF EGRESS (SECTION 1005):

EXIT DOORS - 2" PER PERSON x 1,546 = 309.2" < 7148"
(17 EXIST EXIT DOORS (13 @ 34", 4 @ 68" = 714")

BUILDING AREA - PRIMARY COMBINED SUPPORT MAINTENANCE SHOP (CSMS):

AREA RESTRICTIONS: PER IBC 506.2 THIS FACILITY IS ALLOWED UNLIMITED AREA

BUILDING SQUARE FOOTAGE: 76,529 S.F.



MICHAEL S. SUNDERMEYER
License Number: 201402885
Expiration Date: 12/31/24

CASCO Diversified Corporation
MO Certificate of Authority #000329 Arch.
MO Certificate of Authority #000613 Eng.

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

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**MISSOURI NATIONAL
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INTERIOR RENOVATIONS &
ROOF REPLACEMENT AT
COMBINED SUPPORT
MAINTENANCE SHOP (CSMS)

COMBINED SUPPORT
MAINTENANCE SHOP (CSMS)
2302 MILITIA DRIVE
JEFFERSON CITY, MISSOURI
65101

PROJECT # T2225-01
SITE # 6300
ASSET# 8136300007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 04/20/2023

CAD DWG FILE: _____
DRAWN BY: KMS
CHECKED BY: RAR
DESIGNED BY: RAR

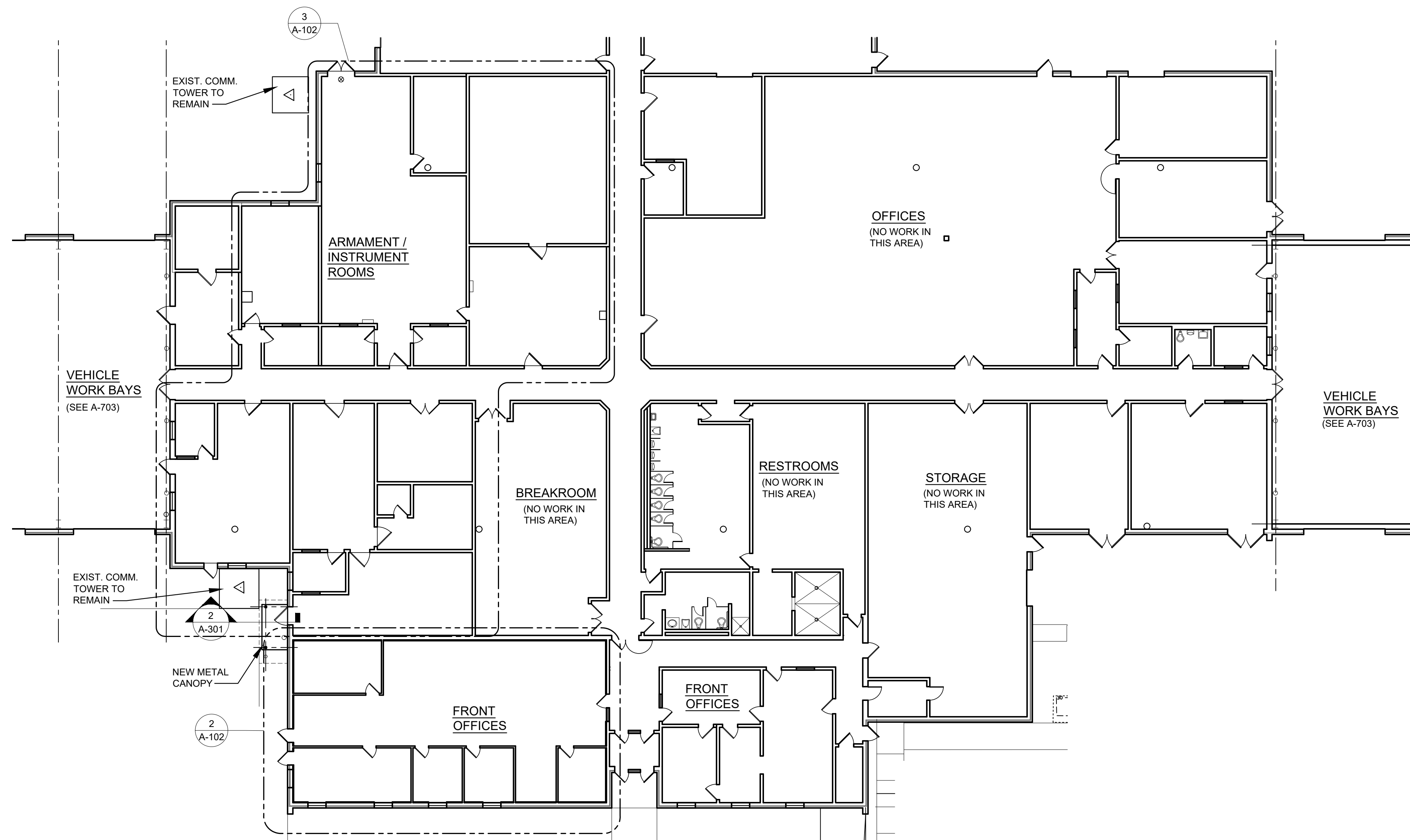
SHEET TITLE:

**CENTER CORE FLOOR
PLAN**

SHEET NUMBER:

A-101

4/20/23
5 OF 22 SHEETS

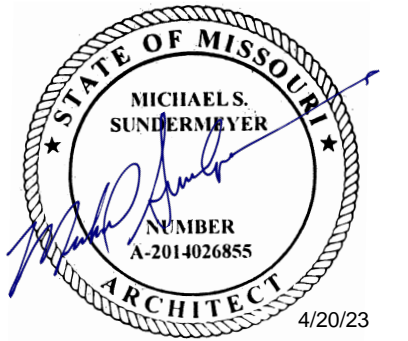


1 ENLARGED FLOOR PLAN

A-101 SCALE: 1/16" = 1'-0"



NORTH



MICHAEL S. SUNDERMEYER
License Number 2014026855
Expiration Date: 12/31/24
CASCO Diversified Corporation
MO Certificate of Authority #003239 Arch.
MO Certificate of Authority #000613 Eng.

CASCO

12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

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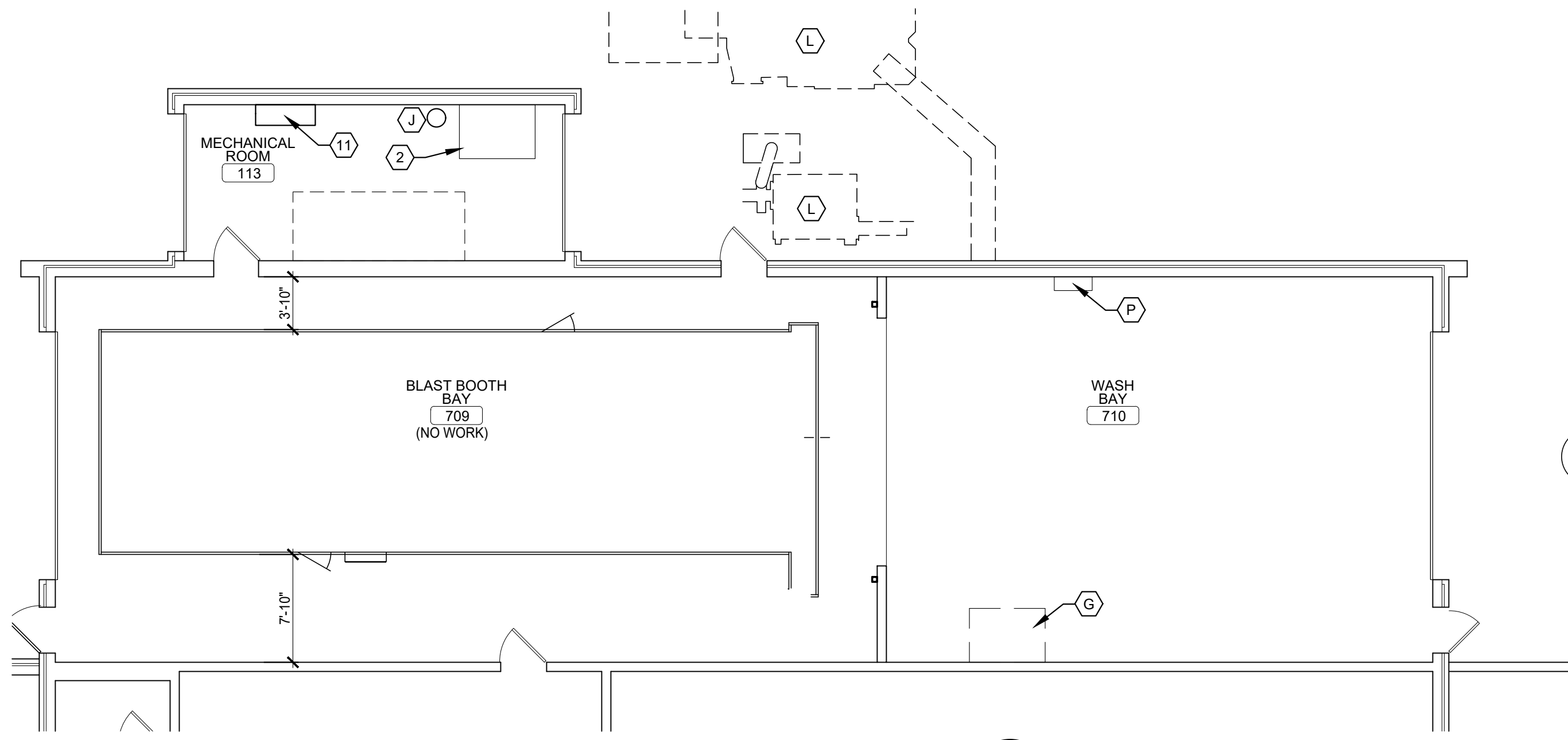
SHEET TITLE:

DEMO AND
NEW FLOOR
PLANS

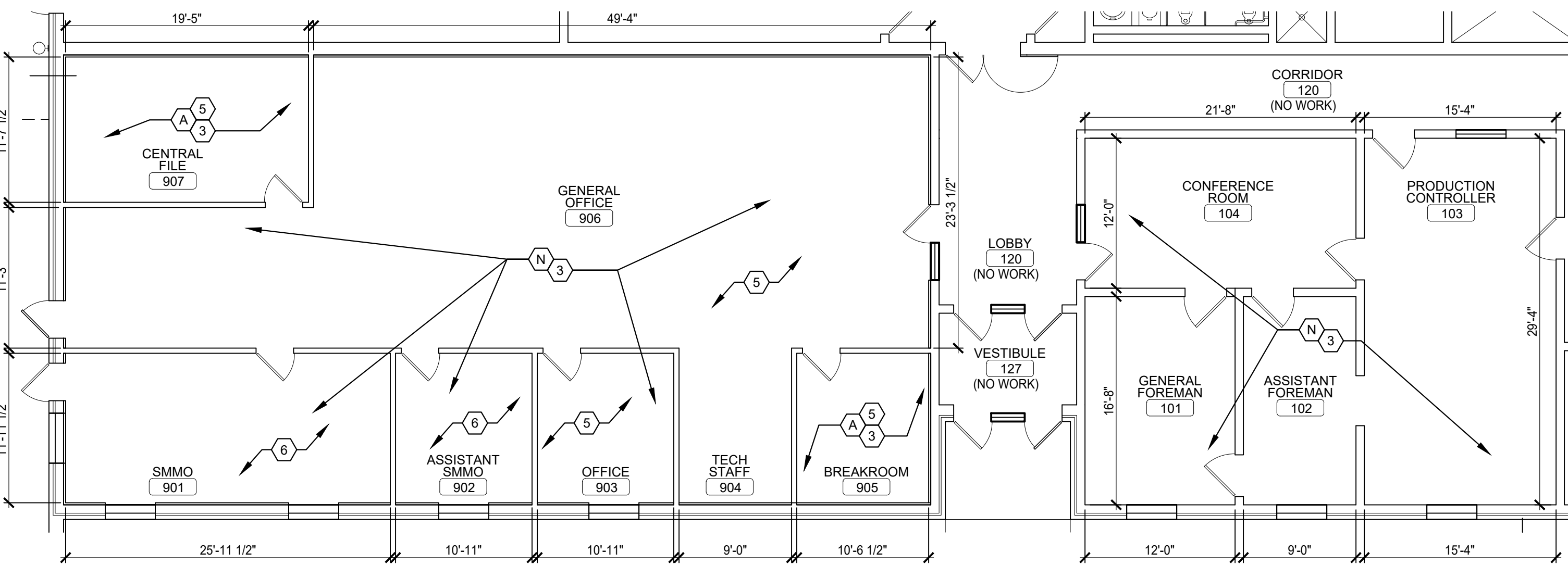
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A-102

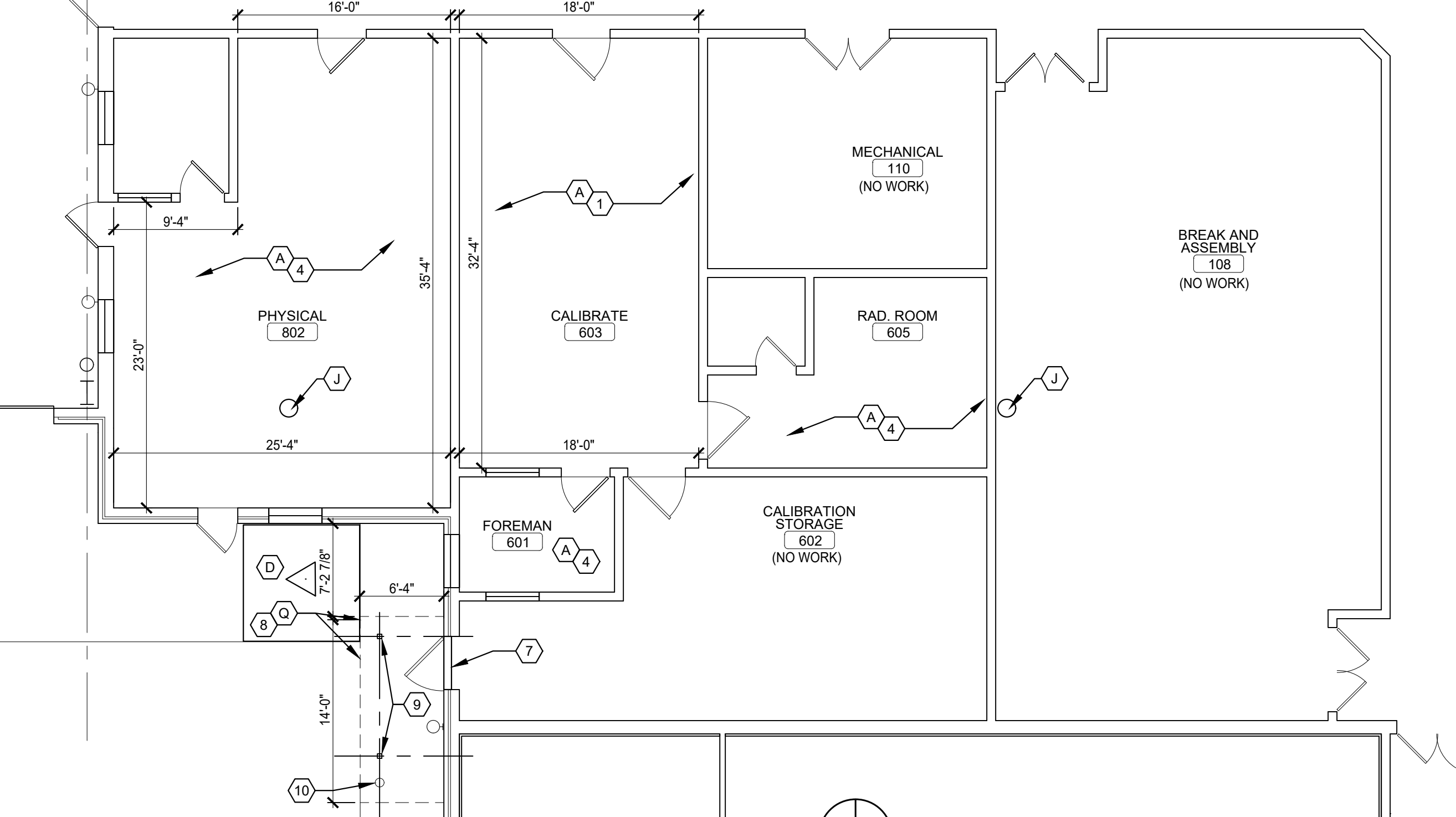
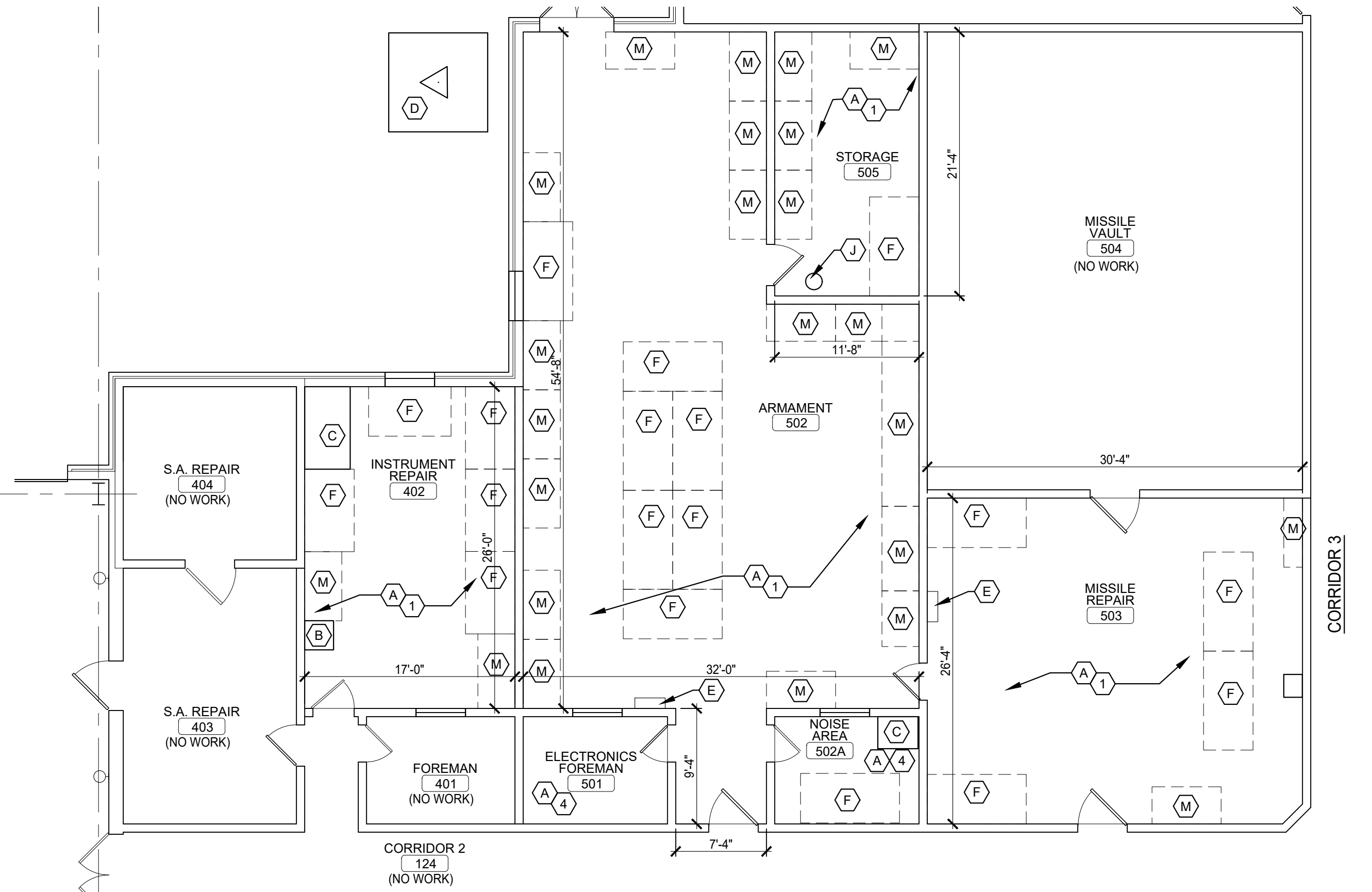
4/20/23
6 OF 22 SHEETS



1 FLOOR PLAN AT MECH. ROOM & WASH BAY
ALT. #3
SCALE: 1/8" = 1'-0"
NORTH



2 FLOOR PLAN AT OFFICES
ALT. #4
SCALE: 1/8" = 1'-0"
NORTH



3 FLOOR PLAN AT ARMAMENT
SCALE: 1/8" = 1'-0"
NORTH

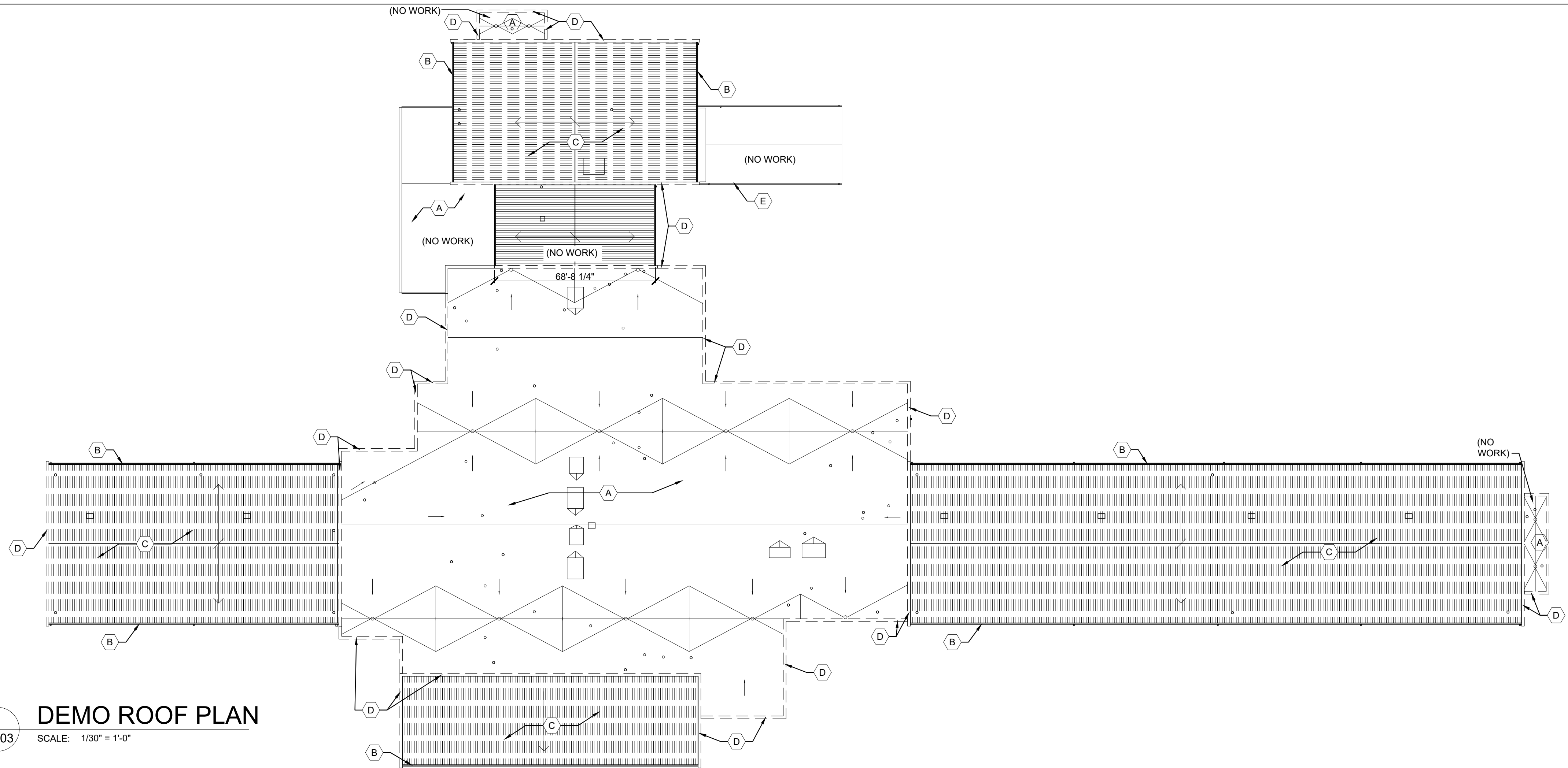
FLOOR PLAN DEMOLITION GENERAL NOTES:	FLOOR PLAN GENERAL NOTES:	FLOOR PLAN DEMOLITION KEYED NOTES:	FLOOR PLAN KEYED NOTES:
<ol style="list-style-type: none"> REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. OWNER TO REMOVE AND STORE EXISTING WORK-BENCHES. CONTRACTOR TO PROVIDE TO GUARD STAFF TO WORKING DAY NOTICE PRIOR TO DEMO FOR COORDINATION OF EQUIPMENT REMOVAL. CONTRACTOR TO COORDINATE WITH OWNER FOR REINSTALLATION OF EXISTING WORK-BENCHES PRIOR TO COMPLETION OF CONSTRUCTION OF THE ARMAMENT AND INSTRUMENT ROOMS. OWNER IS RESPONSIBLE FOR THE INSTALLATION OF THE EXISTING WORK-BENCHES. ALL NEW BUILDING MATERIALS TO BE OF NON-COMBUSTIBLE OR FIRE RETARDANT TREATED MATERIAL. REFER TO DEMOLITION PLANS FOR LOCATIONS OF ALL ITEMS TO BE REMOVED UNLESS NOTED OTHERWISE. ALL INTERIOR WALL DIMENSIONS ARE FROM FACE OF EXISTING OR NEW CMU AND GYPSUM WALLBOARD UNLESS NOTED OTHERWISE. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PROTECTED DURING DEMO AND CONSTRUCTION. 	<ol style="list-style-type: none"> REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL NEW BUILDING MATERIALS TO BE OF NON-COMBUSTIBLE OR WOOD FIRE RETARDANT TREATED MATERIAL. REFER TO DEMOLITION PLANS FOR LOCATIONS OF ALL ITEMS TO BE REMOVED UNLESS NOTED OTHERWISE. REFER TO INTERIOR FINISH SCHEDULE FOR NEW WALL FINISHES, FLOOR FINISH AND CEILING HEIGHTS. ALL INTERIOR WALL DIMENSIONS ARE FROM FACE OF EXISTING OR NEW CMU AND GYPSUM WALLBOARD UNLESS NOTED OTHERWISE. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE CLEANED, PATCH AND REPAIR TO LIKE NEW CONDITION. COORDINATE WITH PROJECT ADMINISTRATOR FOR REPAINTING IF REQUIRED. PORTABLE FIRE EXTINGUISHERS (F.E.): PROVIDE PORTABLE FIRE EXTINGUISHERS (MIN. 10-LB. QUANTITY OF 1) AS REQUIRED PER LOCAL FIRE MARSHAL. 	<p>○ FLOOR PLAN DEMOLITION KEYED NOTES:</p> <ul style="list-style-type: none"> (A) REMOVE EXISTING VINYL TILE FLOORING AND BASE. (B) EXIST. SINK TO REMAIN. (C) EXIST. HOOD TO REMAIN. (D) COMM. TOWER, EXISTING TO REMAIN. (E) EXISTING ELECT. PANEL TO REMAIN. (F) EXISTING WORK-BENCHES TO BE MOVED TO STORAGE BY GUARD STAFF. CONTRACTOR TO COORDINATE DEMO WORK WITH STAFF PRIOR TO START. (G) DISCONNECT AND RELOCATE EXISTING WATER BLASTER. CAP EXISTING PLUMBING. REFER TO ELECT. AND PLUMBING DWGS. (H) NOT USED. (J) EXISTING ROOF DRAIN TO REMAIN IN SAME LOCATION. PROTECT DURING CONSTRUCTION. (K) NOT USED. 	<p>○ FLOOR PLAN KEYED NOTES:</p> <ul style="list-style-type: none"> (L) EXISTING PARTICULATE AND DUST HOPPERS TO REMAIN. (M) EXISTING SHELVING AND STORAGE TO BE MOVED TO STORAGE BY GUARD STAFF. CONTRACTOR TO COORDINATE DEMO WORK WITH STAFF PRIOR TO START. (N) EXISTING CARPET AND VINYL BASE TO BE REMOVED. (O) NOT USED (P) EXISTING AIR/WATER LINES TO BE RELOCATED TO WITH EXISTING WATER BLASTER. REFER TO PLUMBING DWGS. (Q) DEMO EXIST. CONC. SLAB FOR NEW CANOPY CONSTRUCTION. SEE SHEET A-301 AND STRUCT. DWGS. FOR MORE INFORMATION. (1) NEW ELECTROSTATIC DISSIPATIVE (ESD) FLOORING. (2) RELOCATED WATER BLASTER SYSTEM, SEE PLUMBING DWGS. (3) NEW FINISHES - CARPET, VWB. SEE RM FINISH SCHEDULE. (4) NEW VCT FLOORING AND VINYL BASE. (5) NEW SEMI-GLOSS ENAMEL ON DRYWALL. (6) NEW SEMI-GLOSS PAINT ON CMU. (7) NEW DOOR THRESHOLD TO MATCH EXISTING. (8) NEW CONCRETE FOOTINGS AND SLAB. SEE STRUCTURAL DWGS. FOR MORE INFORMATION, AND SHEET A-A301 (9) NEW 4" TUBE STEEL COLS., PAINT TO MATCH NEW STANDING SEAM METAL ROOF. SEE STRUCT. DWGS. FOR MORE INFORMATION (10) NEW 8" X 48" CONCRETE FILLED PIPE BOLLARD (11) NEW HOT WATER, POWER WASHER, ALLOW FOR 30" CLEARANCE AROUND ALL SIDES. SEE PLUMBING DWGS.

GENERAL DEMOLITION NOTES:

1. DEMO & DISPOSE OF EXISTING STANDING SEAM METAL ROOF PANELS, ICE / SNOW GUARDS, GUTTERS, DOWNSPOUTS, FASCIA, SOFFIT AND ALL COPING. REPLACE ANY DAMAGE UNLAYMENT AND OR INSULATION BEFORE INSTALLING NEW STANDING SEAM METAL ROOF SYSTEM.
2. ROOF WORK AT EXISTING TPO AREAS REQUIRES THE USE OF A ROOFER THAT IS APPROVED BY THE MANUFACTURER IN ORDER NOT TO VOID WARRANTIES IN PLACE. REFERENCE SPECIFICATIONS FOR ROOF WARRANTY INFORMATION.
3. PROVIDE TEMPORARY WEATHER PROTECTION AND SECURITY DEVICES DURING INTERVAL BETWEEN DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION ON EXTERIOR SURFACES AND INSTALLATION ON NEW CONSTRUCTION TO ENSURE THAT NO WATER LEAKAGE OR DAMAGE OCCURS TO STRUCTURE OR TO INTERIOR AREAS OF EXISTING BUILDING.
4. EXISTING PTO ROOF TO REMAIN. PROTECT DURING DEMO AND CONSTRUCTION AS TO NOT VOID WARRANTY.

DEMO KEYED NOTES:

- (A) EXISTING TPO ROOF TO REMAIN.
- (B) REMOVE AND DISPOSE OF EXISTING GUTTER AND D.S. SYSTEM.
- (C) REMOVE AND DISPOSE OF EXISTING STANDING SEAM METAL ROOF.
- (D) REMOVE AND DISPOSE OF EXISTING COPING AND ANY DAMAGED BLOCKING.
- (E) EXISTING PAINT DRYING BAY - NOT IN SCOPE.
- (F) EXISTING STANDING SEAM ROOF PANELS TO REMAIN.



1 DEMO ROOF PLAN
SCALE: 1/30" = 1'-0"

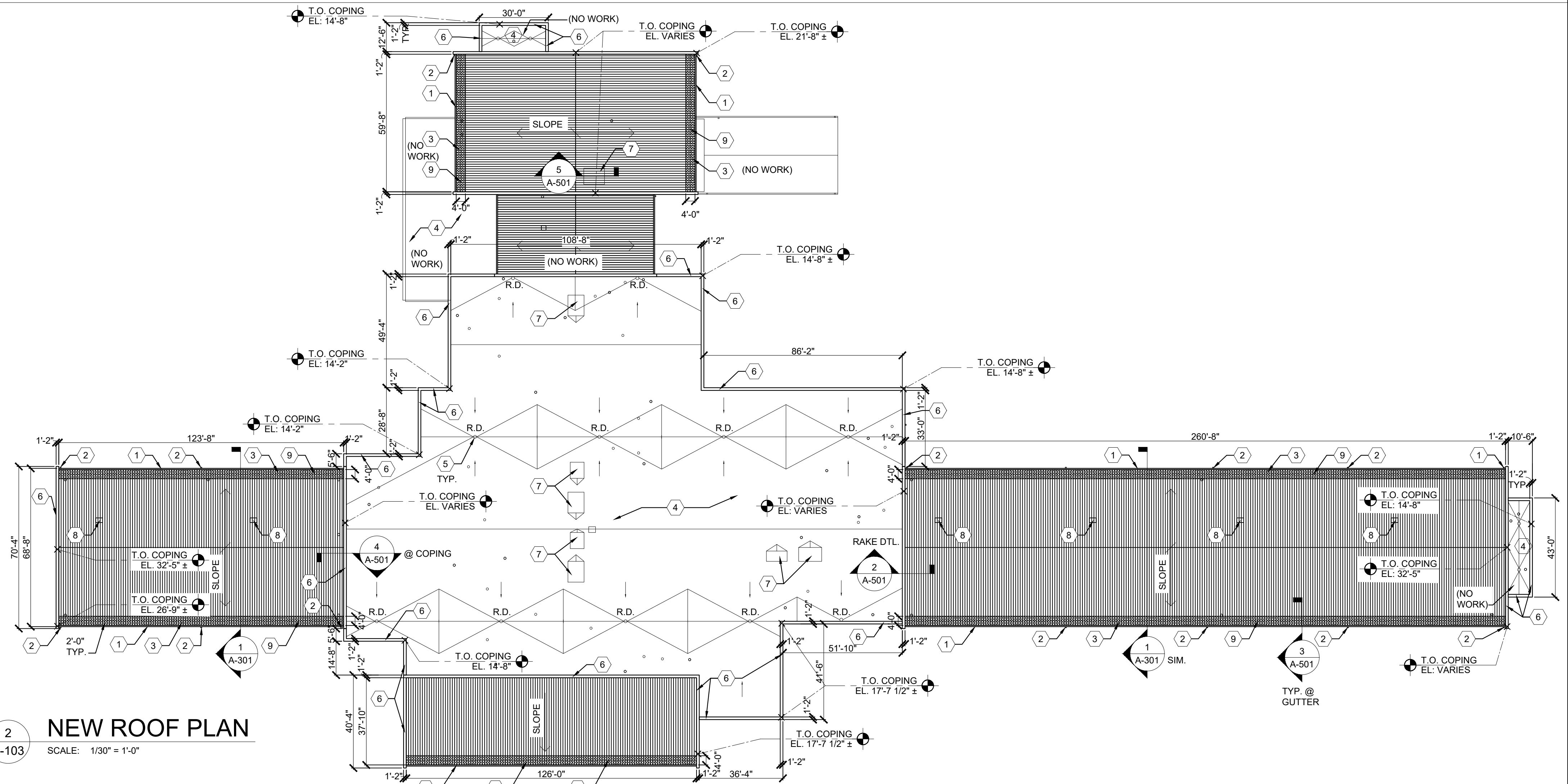
GENERAL NOTES:

STANDING SEAM METAL ROOF BASIS OF DESIGN: BERRIDGE, COLOR: ROYAL BLUE

1. GENERAL CONTRACTOR SHALL INSPECT ALL INTERNAL ROOF DRAINS AND INCLUDE ALL COMPONENTS NECESSARY TO CONSTRUCT A COMPLETE DRAINAGE SYSTEM.
2. ANY EQUIPMENT NOT IDENTIFIED TO BE REMOVED IS TO REMAIN UNLESS NOTED OTHERWISE.
3. AT THE TIME OF SUBMITTING FINAL BID, THE G.C. SHALL VERIFY ALL RELEVANT DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE AFFECTED WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO PROCEEDING WITH AFFECTED WORK.
4. FIELD VERIFY DIMENSIONS / EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

KEYED NOTES:

- (1) NEW PREFINISHED GUTTER, FASCIAS, AND SOFFIT
- (2) NEW PREFINISHED DOWNSPOUTS, DRAIN TO DAYLIGHT. (SEE ELEV. FOR MORE INFO.)
- (3) NEW ICE AND WATER SHIELD, TYP. EXTEND 2'-0" PAST EXTERIOR WALL AND AT PERIMETER OF ROOFTOP PENETRATIONS.
- (4) EXISTING TPO ROOF TO REMAIN.
- (5) EXISTING ROOF DRAIN TO REMAIN.
- (6) NEW PREFINISHED METAL COPING AND FRP WOOD BLOCKING AS REQUIRED.
- (7) EXIST. RTU TO REMAIN, SEE MECH. DWGS.
- (8) EXISTING EXHAUST LOUVER TO REMAIN.
- (9) SNOW AND ICE GUARDS, SEE DETAIL 7/A-501 AND SPECIFICATIONS FOR MORE INFORMATION.



2 NEW ROOF PLAN
SCALE: 1/30" = 1'-0"



MICHAEL S. SUNDERMEYER
License Number: 2014026855
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PROJECT # T2225-01
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CAD DWG FILE: _____
DRAWN BY: KMS
CHECKED BY: RAR
DESIGNED BY: RAR

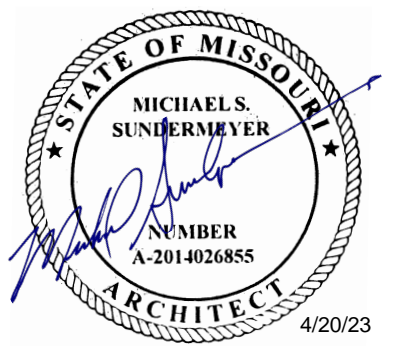
SHEET TITLE:

DEMO & NEW
ROOF PLANS

SHEET NUMBER:

A-103

4/20/23
7 OF 22 SHEETS

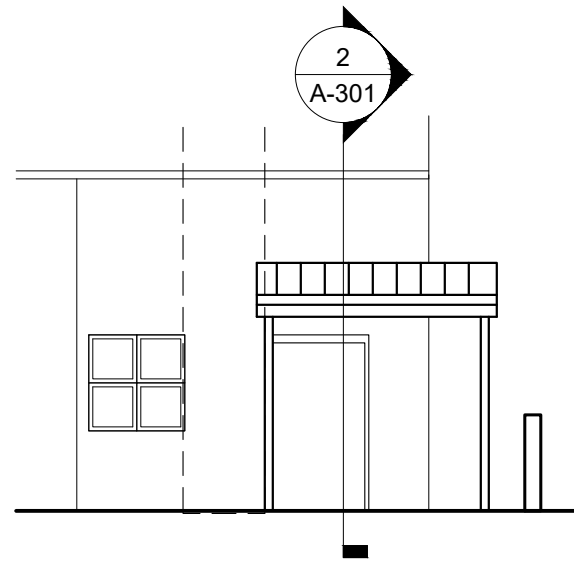


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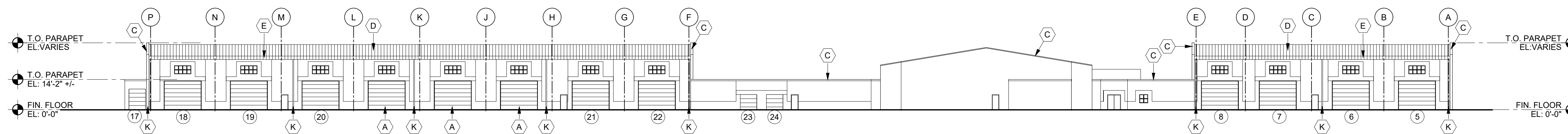
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- ELEVATION GENERAL NOTES:**
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - ALL NEW BUILDING MATERIALS TO BE OF NON-COMBUSTIBLE OR WOOD FIRE RETARDANT TREATED MATERIAL.
 - REFER TO DEMOLITION PLANS FOR LOCATIONS OF ALL ITEMS TO BE REMOVED UNLESS NOTED OTHERWISE.
 - ALTERNATE #2 - ALL OVERHEAD DOOR TO BE DEMOLISHED AND REPLACED TO MATCH EXISTING UNLESS NOTED OTHERWISE.
 - EXISTING BOLLARDS TO REMAIN UNLESS NOTED OTHERWISE.
 - EXIST. LIGHTS, LOUD SPEAKERS, ETC. TO REMAIN UNLESS NOTED OTHERWISE.
 - EXIST. HOLLOW METAL DOORS TO REMAIN UNLESS NOTED OTHERWISE.
 - ALL NEW ROOF DETAILS SEE SHT. A-501.
 - NEW O.H. DOORS, ALT. 2, SHOWN WITH #

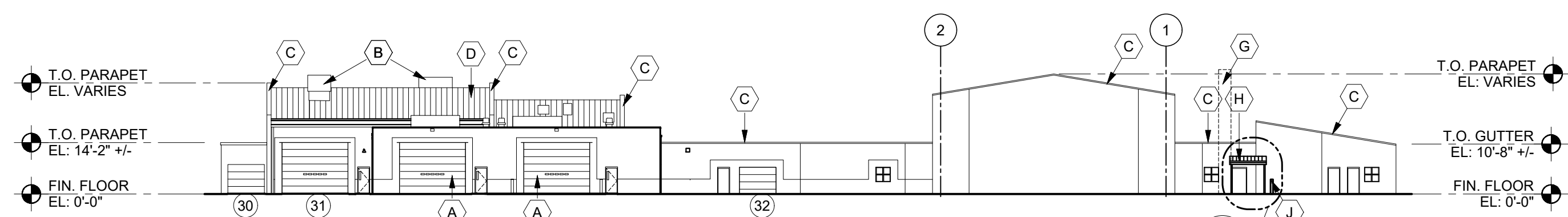
- ELEVATION DEMOLITION KEYED NOTES:**
- (A) EXIST. OVERHEAD DOORS TO REMAIN.
 - (B) EXIST. MECH. EQUIP. TO REMAIN.
 - (C) NEW METAL COPING, SEE DETAILS ON SHEET A-501.
 - (D) NEW STANDING SEAM METAL ROOF, SEE SHEET A-501 (TYP).
 - (E) NEW SNOW AND ICE GUARDS, SEE PLAN ON SHEET A-103.
 - (F) EXIST. PARTICULATE AND DUST HOPPERS TO REMAIN.
 - (G) EXIST. ANTENNA TO REMAIN.
 - (H) NEW METAL CANOPY, 10'-0" x 6'-0".
 - (J) 4'-0" H x 6" DIA. CONCRETE FILLED PIPE BOLLARD, TYP. OF 3. SEE SHEET A-001.
 - (K) NEW PREFINISHED DOWNSPOUTS.



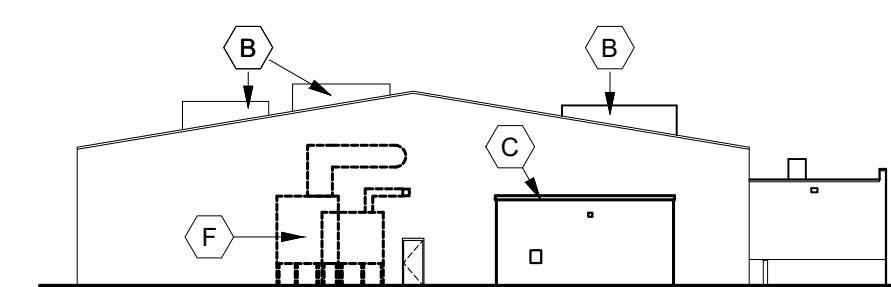
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A-201
CANOPY ELEVATION
SCALE: 1/8" = 1'-0"



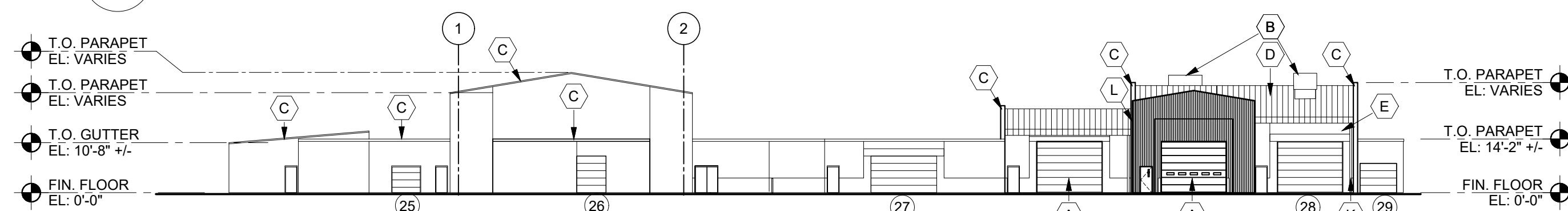
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A-201
WEST ELEVATION
SCALE: 1/30" = 1'-0"



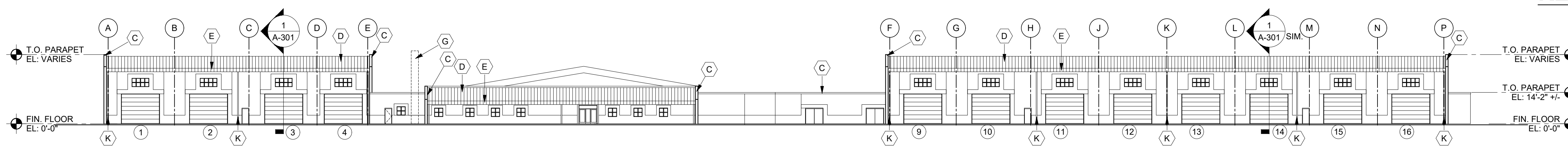
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A-201
NORTH ELEVATION
SCALE: 1/30" = 1'-0"



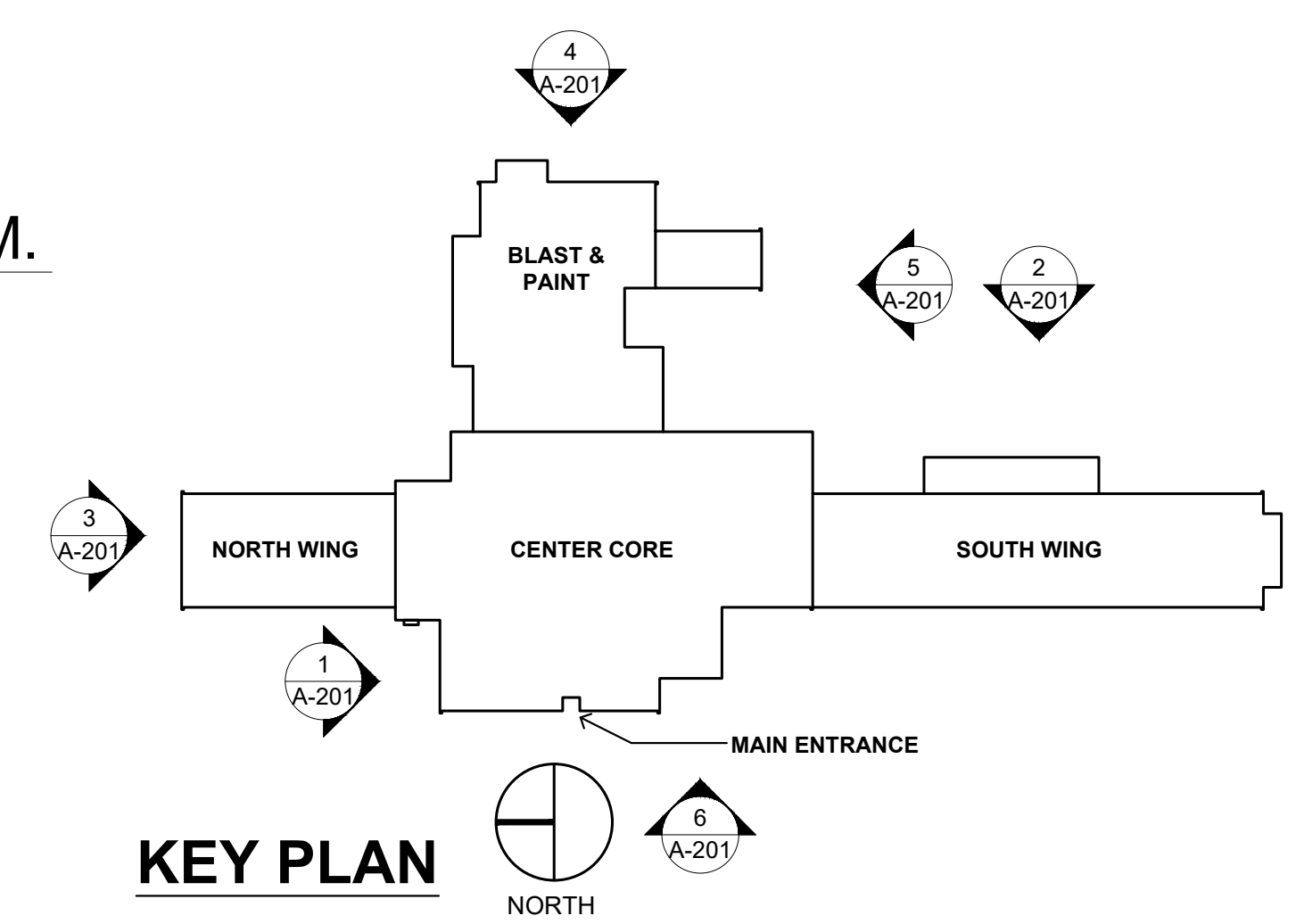
4
A-201
EAST ELEV. @ BLAST BAY / MECH RM.
SCALE: 1/30" = 1'-0"



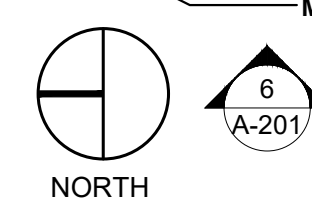
5
A-201
BACK / SOUTH ELEVATION
SCALE: 1/30" = 1'-0"



6
A-201
EAST / FRONT ELEVATION
SCALE: 1/30" = 1'-0"



KEY PLAN



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COMBINED SUPPORT
MAINTENANCE SHOP (CSMS)
2302 MILITIA DRIVE
JEFFERSON CITY, MISSOURI
65101

PROJECT # T2225-01
SITE # 6300
ASSET# 813630007

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 04/20/2023

CAD DWG FILE:
DRAWN BY: KMS
CHECKED BY: RAR
DESIGNED BY: RAR

SHEET TITLE:
ELEVATIONS

SHEET NUMBER:
A-201
4/20/23
8 OF 22 SHEETS



MICHAEL S. SUNDERMEYER
License Number: 2014026855
Expiration Date: 12/31/24

CASCO Diversified Corporation
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CASCO
12 Sumner Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

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INTERIOR RENOVATIONS &
ROOF REPLACEMENT AT
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MAINTENANCE SHOP (CSMS)

COMBINED SUPPORT
MAINTENANCE SHOP (CSMS)
2302 MILITIA DRIVE
JEFFERSON CITY, MISSOURI
65101

PROJECT # T2225-01
SITE # 6300
ASSET# 8136300007

REVISION:
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ISSUE DATE: 04/20/2023

CAD DWG FILE:
DRAWN BY: KMS
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DESIGNED BY: RAR

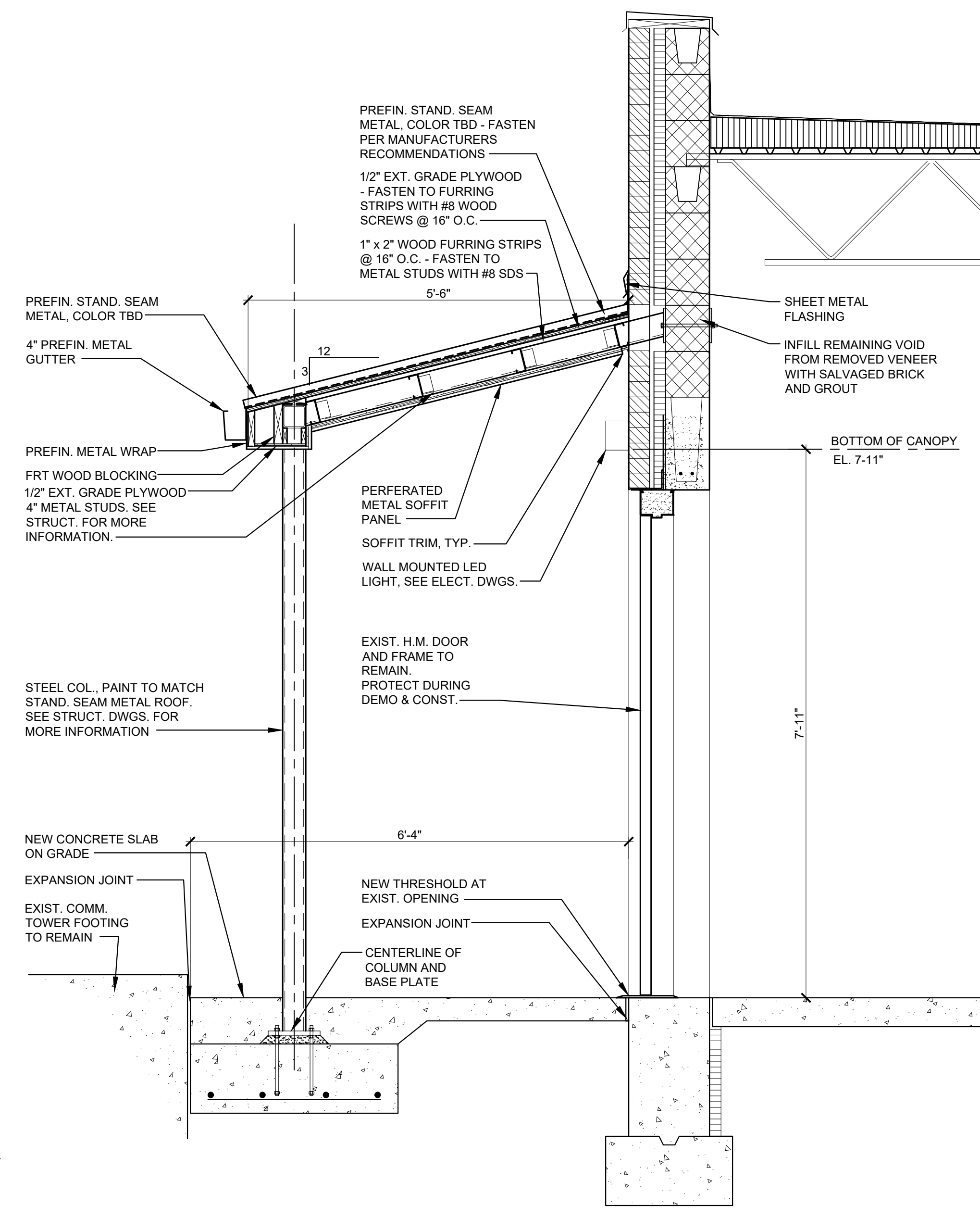
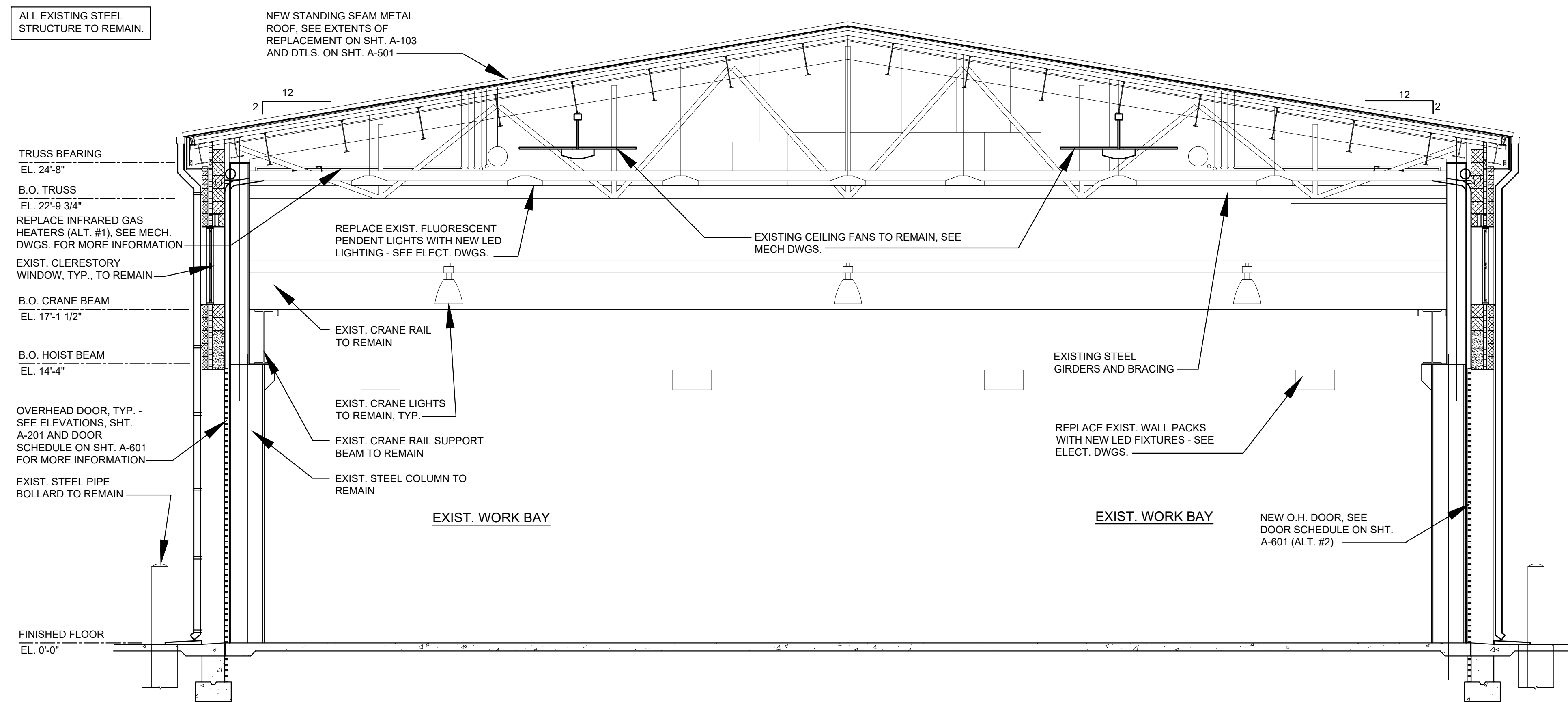
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WALL
SECTIONS

SHEET NUMBER:

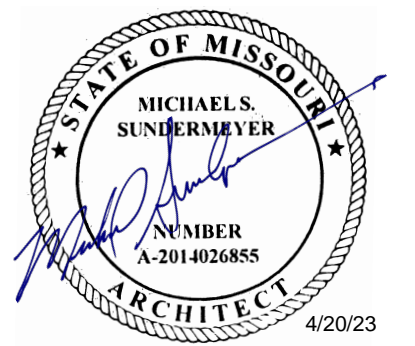
A-301

4/20/23
9 OF 22 SHEETS



1 SECTION THROUGH WORK BAYS
A301 SCALE: 1/4" = 1'-0"

2 WALL SECTION AT NEW CANOPY
A301 SCALE: 3/4" = 1'-0"



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12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

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CAD DWG FILE:
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SHEET TITLE:

ROOF DETAILS

SHEET NUMBER:

A-501

4/20/23
10 OF 22 SHEETS

GENERAL NOTES:

ROOF WORK AT EXISTING TPO AREAS REQUIRES THE USE OF A ROOFER THAT IS APPROVED BY THE MANUFACTURER IN ORDER TO NOT VOID WARRANTIES IN PLACE. REFERENCE SPECIFICATIONS FOR ROOF WARRANTY INFORMATION.

INSTALL NEW TERMINATION BARS AS REQUIRED.

FLASH ALL ROOF PENETRATIONS AS REQUIRED.

METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR 0.032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.

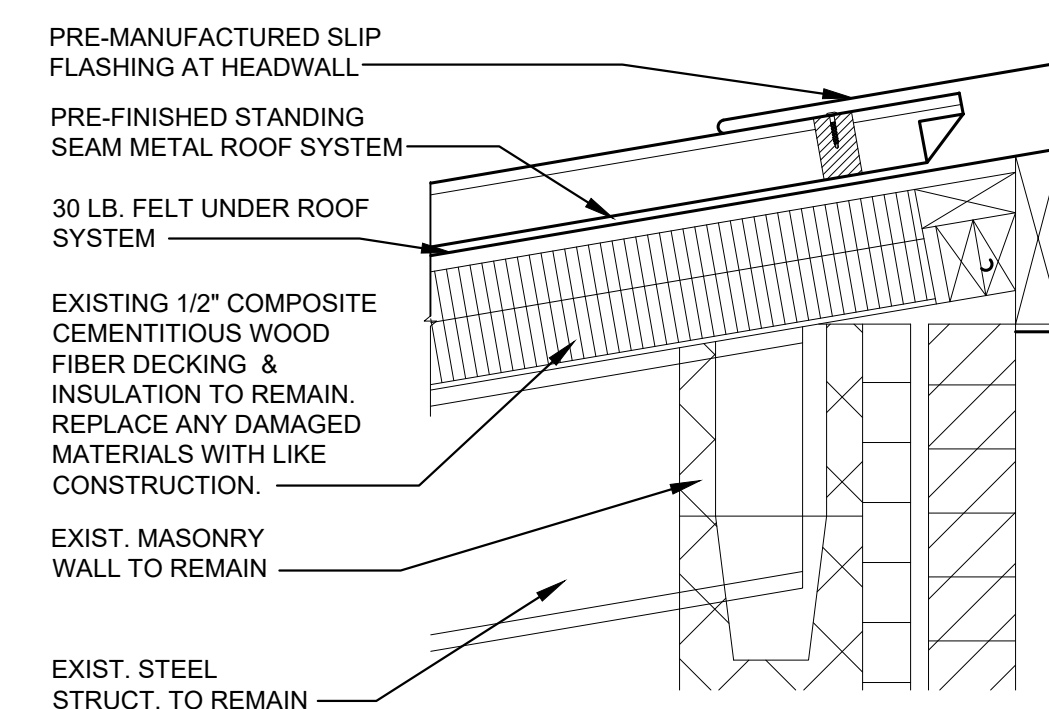
INSTALL TERMINATION BAR WITH 1/4" GAP BETWEEN ADJOINING SECTIONS.

TERM BAR MUST BE CUT AT INSIDE CORNERS. DO NOT BEND AROUND CORNERS.

TERM BAR MUST BE FASTENED WITHIN 1" MAX. OF ALL SECTION ENDS. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

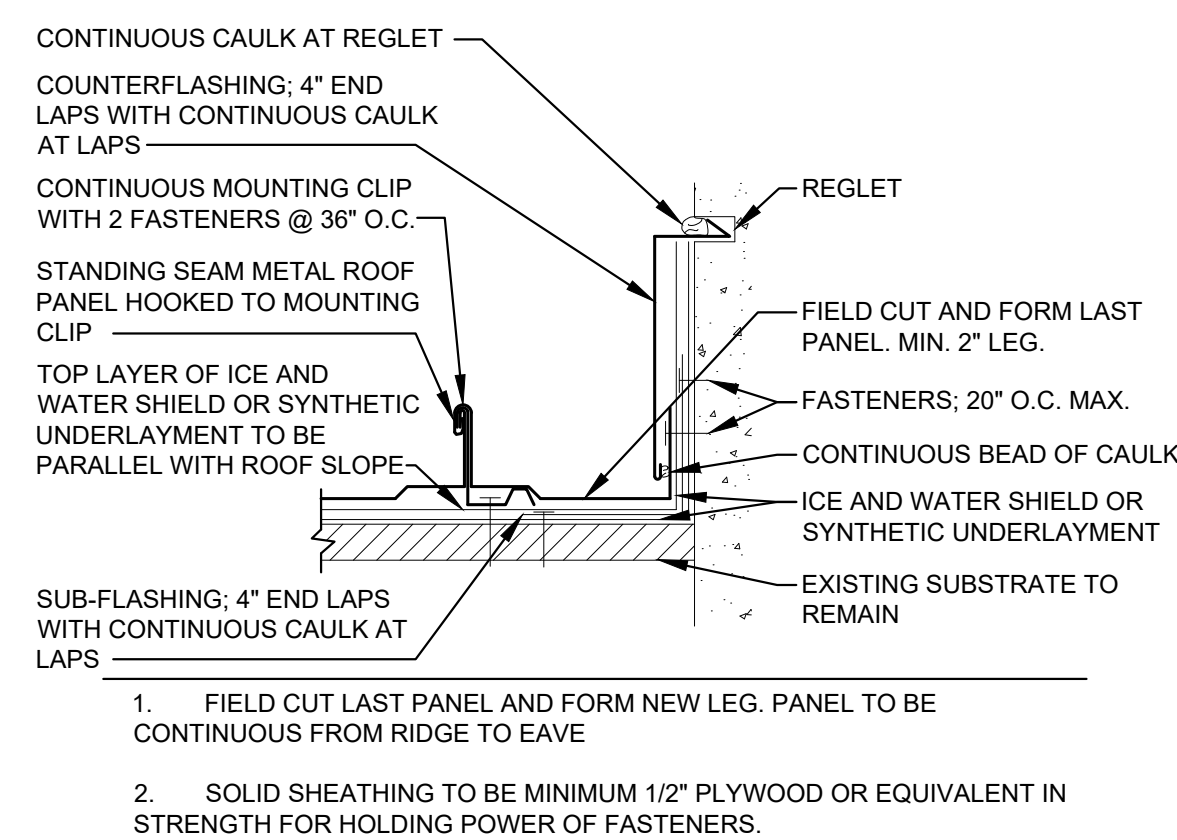
ALL ROOF WORK AND CURB CONNECTIONS SHALL BE COORDINATED WITH AN EXPERIENCED ROOFING CONTRACTOR. SEE SPECIFICATIONS.

ALL NEW MATERIALS SHOULD MATCH EXISTING COLOR AND FINISH AS CLOSELY AS POSSIBLE.



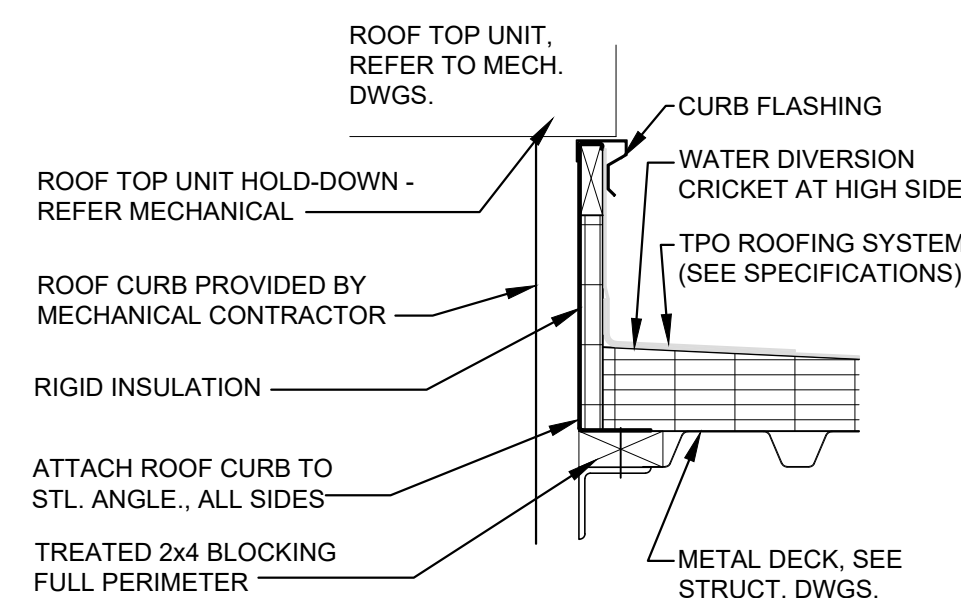
1 ROOF EDGE DETAIL

A-501 SCALE: 1 1/2" = 1'-0"



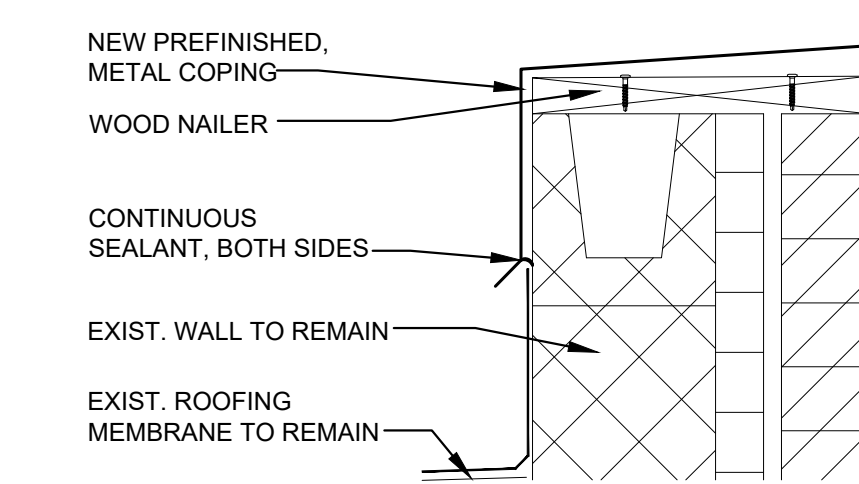
2 RACK DETAIL

A-501 SCALE: 3" = 1'-0"



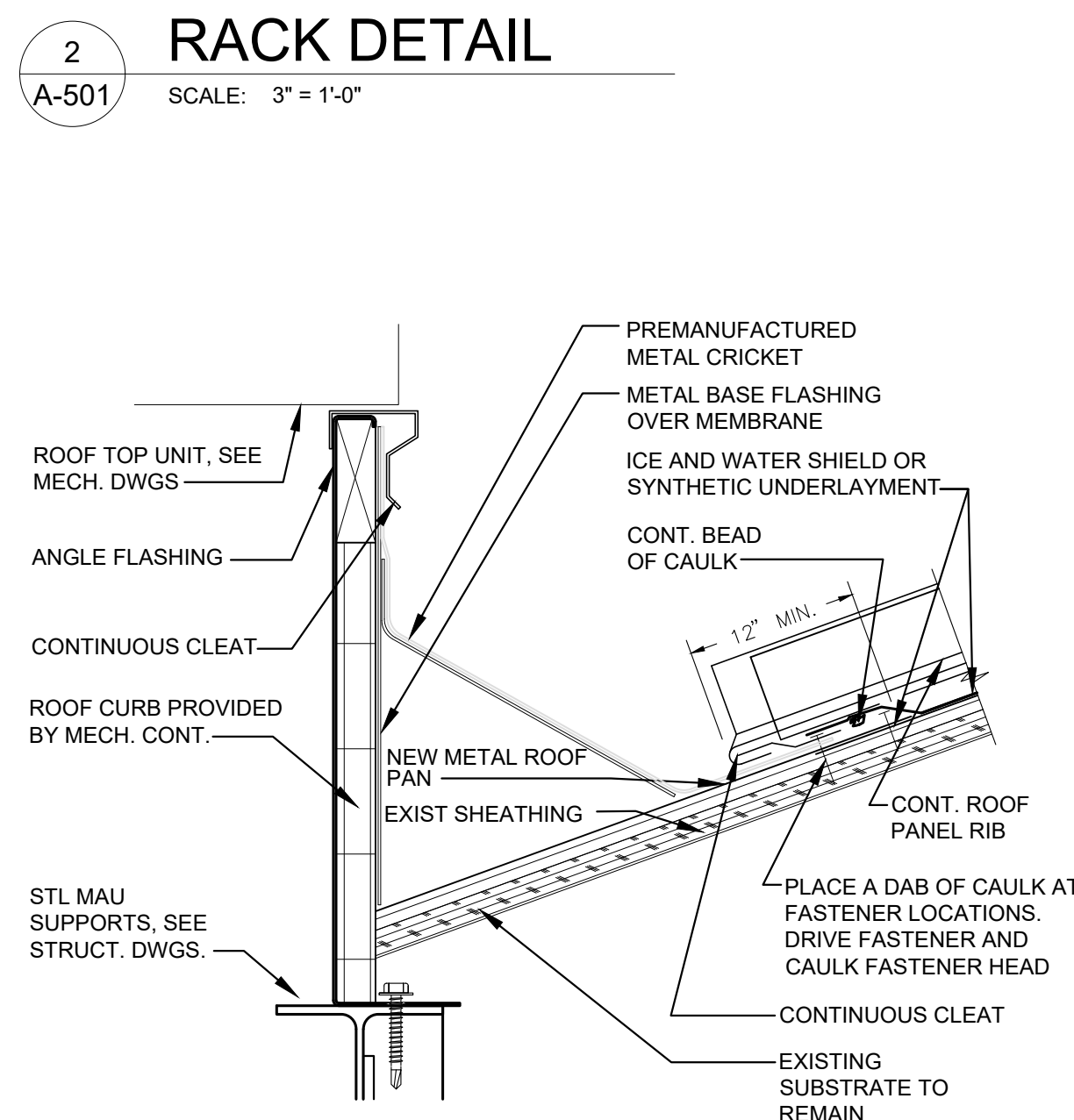
3 CURB DTL. AT TPO ROOF

A-501 SCALE: 1 1/2" = 1'-0"



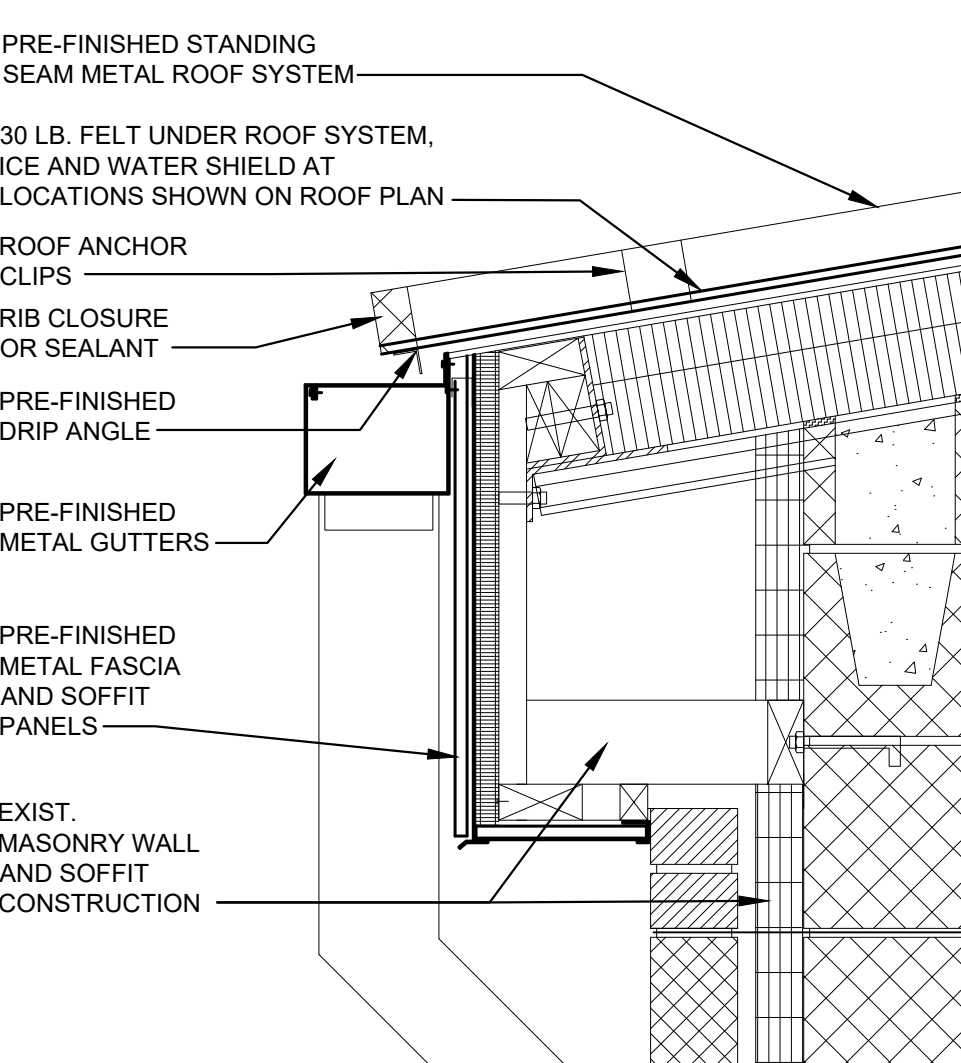
4 METAL COPING DETAIL

A-501 SCALE: 1 1/2" = 1'-0"



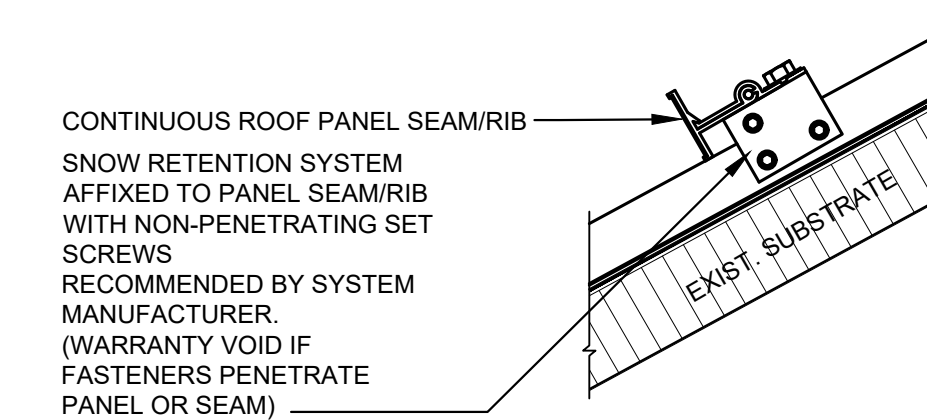
5 RTU CURB DETAIL

A-501 SCALE: 3" = 1'-0"



6 GUTTER / FASCIA DTL.

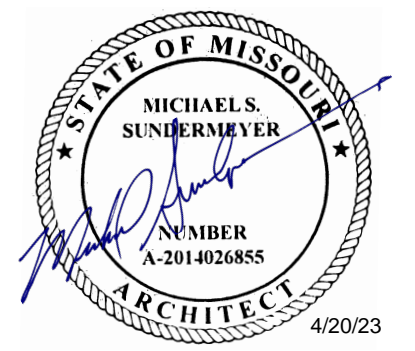
A-501 SCALE: 1 1/2" = 1'-0"



NOTES:
1. ONLY SEAM/RIB MOUNTED SNOW RETENTION DEVICES WHICH INCORPORATE SET SCREWS ALLOWED.
2. REFER TO ROOFING MANUFACTURER FOR PANEL SPACING, SEAM/RIB THICKNESS AND HEIGHT.
3. REFER TO ROOFING MANUFACTURER FOR FASTENER COMPATIBILITY WITH METAL.
4. SPECIFIC TYPE, NUMBER AND SPACING OF SNOW RETENTION CLIPS TO BE DETERMINED BY SNOW RETENTION SYSTEM MANUFACTURE OR A QUALIFIED DESIGN PROFESSIONAL.
5. CAUTION: ADHERED SNOWGUARDS ARE NOT ACCEPTABLE.

7 SNOW GUARD DETAIL

A-501 SCALE: 1 1/2" = 1'-0"



MICHAEL S. SUNDERMEYER
License Number 2014026855
Expiration Date: 12/31/24
CASCO Diversified Corporation
MO Certificate of Authority #00329 Arch.
MO Certificate of Authority #00613 Eng.

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

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SITE # 6300
ASSET# 8136300007

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ISSUE DATE: 04/20/2023

CAD DWG FILE: _____
DRAWN BY: KMS
CHECKED BY: RAR
DESIGNED BY: RAR

SHEET TITLE:
DOOR & FINISH
SCHEDULES, AND
DOOR TYPES

SHEET NUMBER:

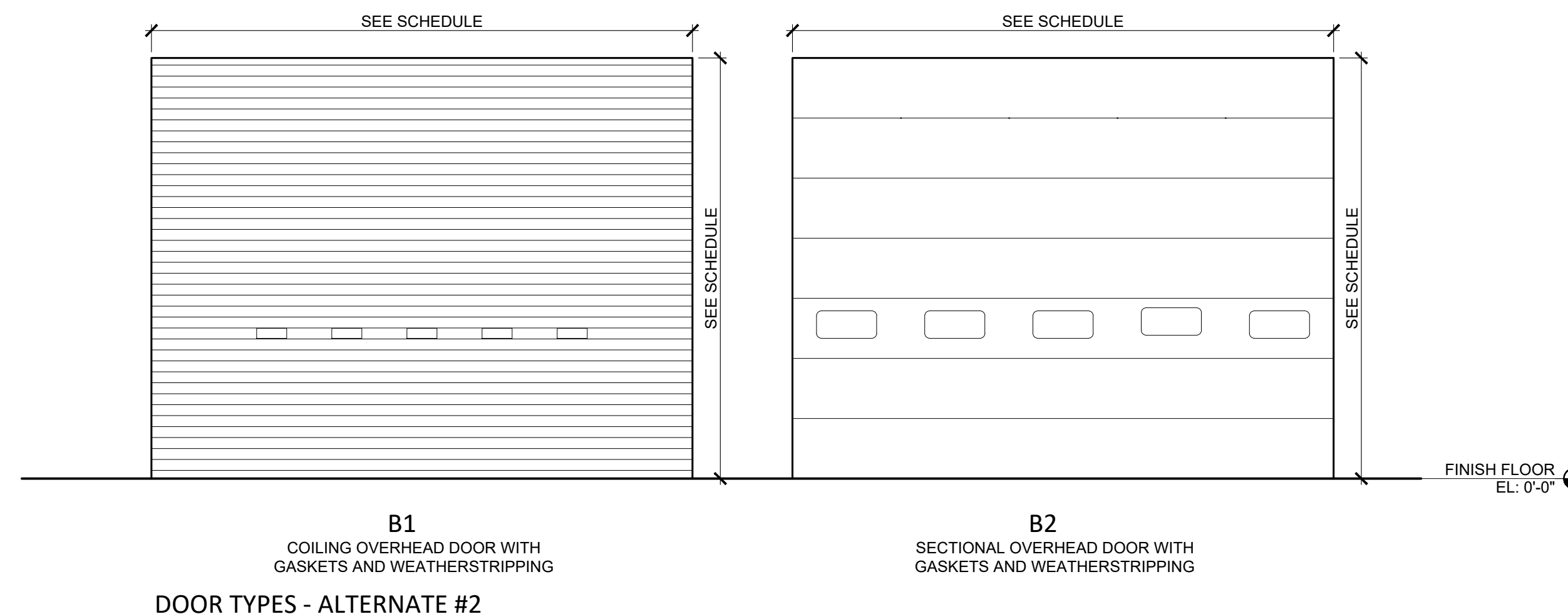
A-601

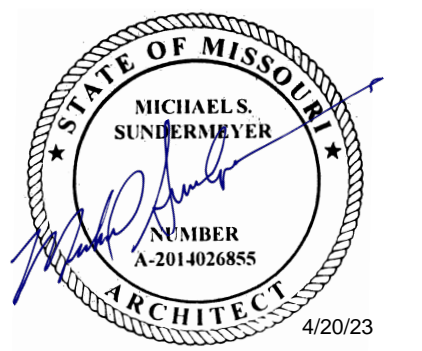
4/20/23
11 OF 22 SHEETS

# ROOM FINISH SCHEDULE										
TAG	ROOM	WALLS				FLOOR		CEILING		COMMENTS
		NORTH	WEST	SOUTH	EAST	FLOOR BASE	FLOOR	MATERIAL	FINISH	
402	INSTRUMENT REPAIR	PT-1	PT-1	PT-1	PT-1	VB-1	NC-1	ACT-1	EXIST.	--
502	ARMAMENT	PT-1 / AWP-1	PT-1	PT-1 / AWP-1	PT-1	VB-1	NC-1	ACT-1	EXIST.	--
503	MISSILE REPAIR	PT-1	PT-1	PT-1	PT-1	VB-1	NC-1	ACT-1	EXIST.	--
505	STORAGE	PT-1	PT-1	PT-1	PT-1	VB-1	NC-1	ACT-1	EXIST.	--
603	CALIBRATE	PT-1	PT-1	PT-1	PT-1	VB-1	NC-1	ACT-1	EXIST.	--
605	RAD. ROOM	PT-1	PT-1	PT-1	PT-1	VB-1	VCT-1	ACT-1	EXIST.	--
802	PHYSICAL	PT-1	PT-1	PT-1	PT-1	VB-1	VCT-1	ACT-1	EXIST.	--
901	SMMO	PT-2	PT-2	PT-2	PT-2	VB-1	CPT-1	ACT-1	EXIST.	--
902	ASSISTANT SMMO	PT-2	PT-2	PT-2	PT-2	VB-1	CPT-1	ACT-1	EXIST.	--
903	OFFICE	PT-1	PT-1	PT-1	PT-1	VB-1	CPT-1	ACT-1	EXIST.	--
904	TECH. STAFF	PT-1	PT-1	PT-1	PT-1	VB-1	CPT-1	ACT-1	EXIST.	--
905	BREAKROOM	PT-1	PT-1	PT-1	PT-1	VB-1	VCT-1	ACT-1	EXIST.	--
906	GENERAL OFFICE	PT-1	PT-1	PT-1	PT-1	VB-1	CPT-1	ACT-1	EXIST.	--
907	CENTRAL FILE	PT-1	PT-1	PT-1	PT-1	VB-1	VCT-1	ACT-1	EXIST.	--
101	GENERAL FOREMAN	PT-1	PT-1	PT-1	PT-1	VB-1	CPT-1	ACT-1	EXIST.	--
102	ASSISTANT FOREMAN	PT-1	PT-1	PT-1	PT-1	VB-1	CPT-1	ACT-1	EXIST.	--
103	PRODUCTION CONTROLLER	PT-1	PT-1	PT-1	PT-1	VB-1	CPT-1	ACT-1	EXIST.	--
104	CONFERENCE ROOM	PT-1	PT-1	PT-1	PT-1	VB-1	CPT-1	ACT-1	EXIST.	--

# ROOM FINISH SCHEDULE (COLORS TO BE DETERMINED)						
TAG	MATERIAL	COLOR	MANUFACTURER (B.O.D.)	APPROVED EQUIVALENTS		NOTES
PT-1	DRY-FALL PAINT	--	BM, LATEX DRY FALL	SW - PRO INDUSTRIAL	PPG, AQUAPON	SEMI-GLOSS SHEEN
PT-2	ENAMEL PAINT	--	BM, COROTECH, ALKYD ENAMEL	--	--	SEMI-GLOSS SHEEN
PT-3	H.M. DOORS / FRAMES	--	BM, COROTECH, ALKYD ENAMEL	--	--	SATIN SHEEN
NC-1	ESD	--	--	--	--	--
VCT-1	VINYL COMPOSITE TILES	--	--	--	--	--
CPT-1	CARPET	--	--	--	--	--
VB-1	VINYL BASE	--	--	--	--	--
ACT-1	ACOUSTIC CEILING TILES	--	--	--	--	EXISTING TO REMAIN, REPLACE UP TO 20 TILES
AWP-1	ACOUSTIC WALL PANELS	--	--	--	--	EXISTING TO REMAIN

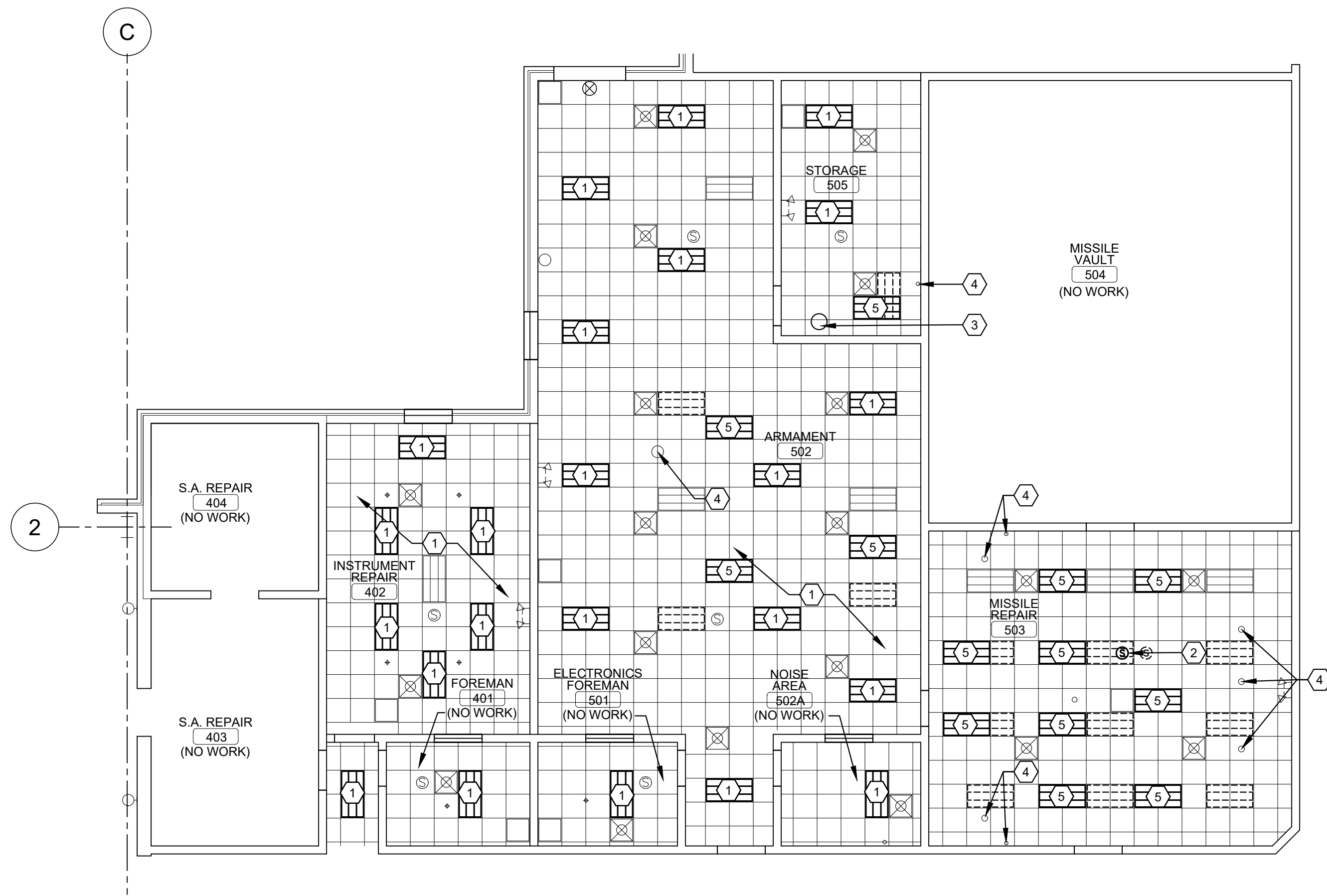
# DOOR SCHEDULE										
SYM.	ROOM	SIZE		DOOR		FRAME		HEAD DETAIL	JAMB DETAIL	COMMENTS
		WIDTH	HEIGHT	MATERIAL	TYPE	MATERIAL	TYPE			
		1-16, 18-22	WORK BAY	18'-0"	14'-0"	METAL	B-2			
17	CONTROLLED WASTE HANDLING	8'-0"	8'-0"	METAL	B1	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
23	FLAMMABLE STORAGE	8'-0"	8'-0"	METAL	B1	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
24	SUPPLY ROOM	8'-0"	8'-0"	METAL	B1	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
25	UNHEATED CLASS IX STORAGE	8'-0"	10'-0"	METAL	B2	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
26	CONTROLLED WASTE HANDLING	10'-0"	8'-0"	METAL	B2	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
27	CARPENTRY SHOP	18'-0"	8'-0"	METAL	B2	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
28	WASH BAY	18'-0"	14'-0"	METAL	B1	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
29-30	MECHANICAL	8'-0"	8'-0"	METAL	B1	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
31	PAINT STRIP BAY	18'-0"	14'-0"	METAL	B1	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.
32	CANVAS SHOP	10'-0"	8'-0"	METAL	B2	--	--	--	--	HARDWARE PER MANUFACTURER STANDARD, REUSE EXIST. TRACKS.



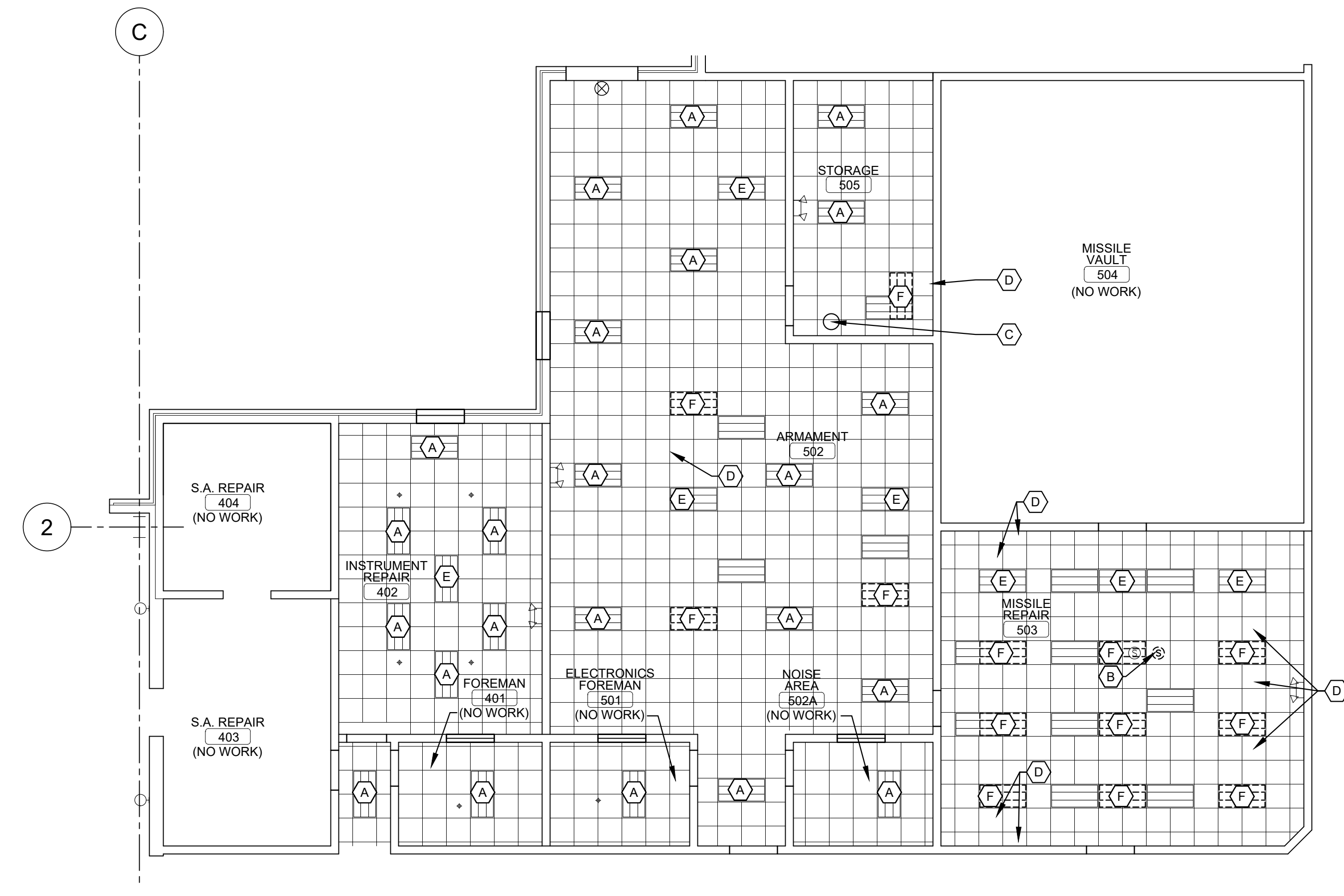


MICHAEL S. SUNDERMEYER
License Number 201402855
Expiration Date: 12/31/24
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MO Certificate of Authority #000329 Arch.
MO Certificate of Authority #000613 Eng.

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100



1 DEMO REFLECTED CEILING PLAN - ARMAMENT
SCALE: 1/8" = 1'-0"
NORTH



2 REFLECTED CEILING PLAN - ARMAMENT
SCALE: 1/8" = 1'-0"
NORTH

<p>REFLECTED CEILING PLAN GENERAL NOTES:</p> <ol style="list-style-type: none"> MECHANICAL DEVICES SHOWN ON THE REFLECTED CEILING PLAN ARE FOR COORDINATION. LIGHTING FIXTURES SHOWN ON THE REFLECTED CEILING PLAN ARE FOR ARCHITECTURAL LOCATIONS, QUANTITIES, AND GENERAL FIXTURE TYPE ONLY. REFER TO ELECTRICAL DRAWINGS FOR EXACT FIXTURE TYPE AND CIRCUITING. ALL LIGHTS MUST BE PROPERLY INSTALLED AND SUPPORTED TO STRUCTURAL SUPPORT MEMBERS ABOVE CEILING SYSTEM AND ATTACHED DIAGONALLY ON LIGHT FIXTURE OR WHERE SURFACE MOUNT LIGHT FIXTURES OCCURS AT SUSPENDED CEILING SYSTEM, DO NOT SUPPORT FROM FINISH CEILING MATERIAL. 	<p>REFLECTED CEILING PLAN KEYED NOTES:</p> <ol style="list-style-type: none"> EXIST. 2'-0" x 4'-0" LED LIGHTING TO REMAIN IN PLACE. EXIST. SPEAKER TO BE REMOVED AND RELOCATED. EXIST. ROOF DRAIN, PROTECT DURING DEMO AND CONSTRUCTION. EXIST. POWER POLE TO REMAIN. EXIST. 2'-0" x 4'-0" LED LIGHTING TO BE REMOVED FOR RELOCATION. SEE ELECT. DWG. 	<p>REFLECTED CEILING PLAN KEYED NOTES:</p> <ol style="list-style-type: none"> EXIST. 2'-0" x 4'-0" LED LIGHTING TO REMAIN. EXIST. SPEAKER TO BE RELOCATED FOR NEW LIGHTING LAYOUT. EXIST. ROOF DRAIN, PROTECT DURING DEMO AND CONSTRUCTION. EXIST. POWER POLE TO REMAIN. NEW 2'-0" x 4'-0" LED LIGHTING. SEE ELECTRICAL DWG. EXIST. 2'-0" x 4'-0" LED LIGHTING TO BE REMOVED AND RELOCATED. SEE ELECT. DWG. 	<p>CEILING DEVICE LEGEND</p> <ul style="list-style-type: none"> NEW 2x4 LED LIGHT, SEE ELECT. DWGS. EXIST. 2x4 LED LIGHT TO REMAIN, SEE ELECT. DWGS. EXIST. LED LIGHT TO BE RELOCATED, SEE ELECT. DWGS. EXIST. SPEAKER EXIST. POWER POLE EXIST. SPRINKLER HEAD EXIST. BUG EYE LIGHT, SEE ELECT. DWGS.
---	---	--	--

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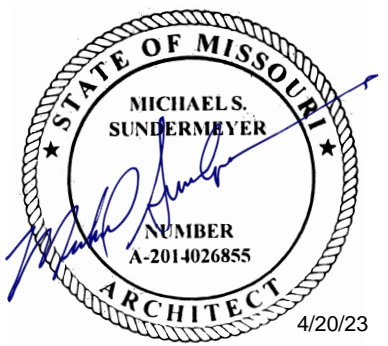
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REVISION:
DATE: _____
ISSUE DATE: 04/20/2023

CAD DWG FILE: _____
DRAWN BY: KMS
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DESIGNED BY: RAR

SHEET TITLE:

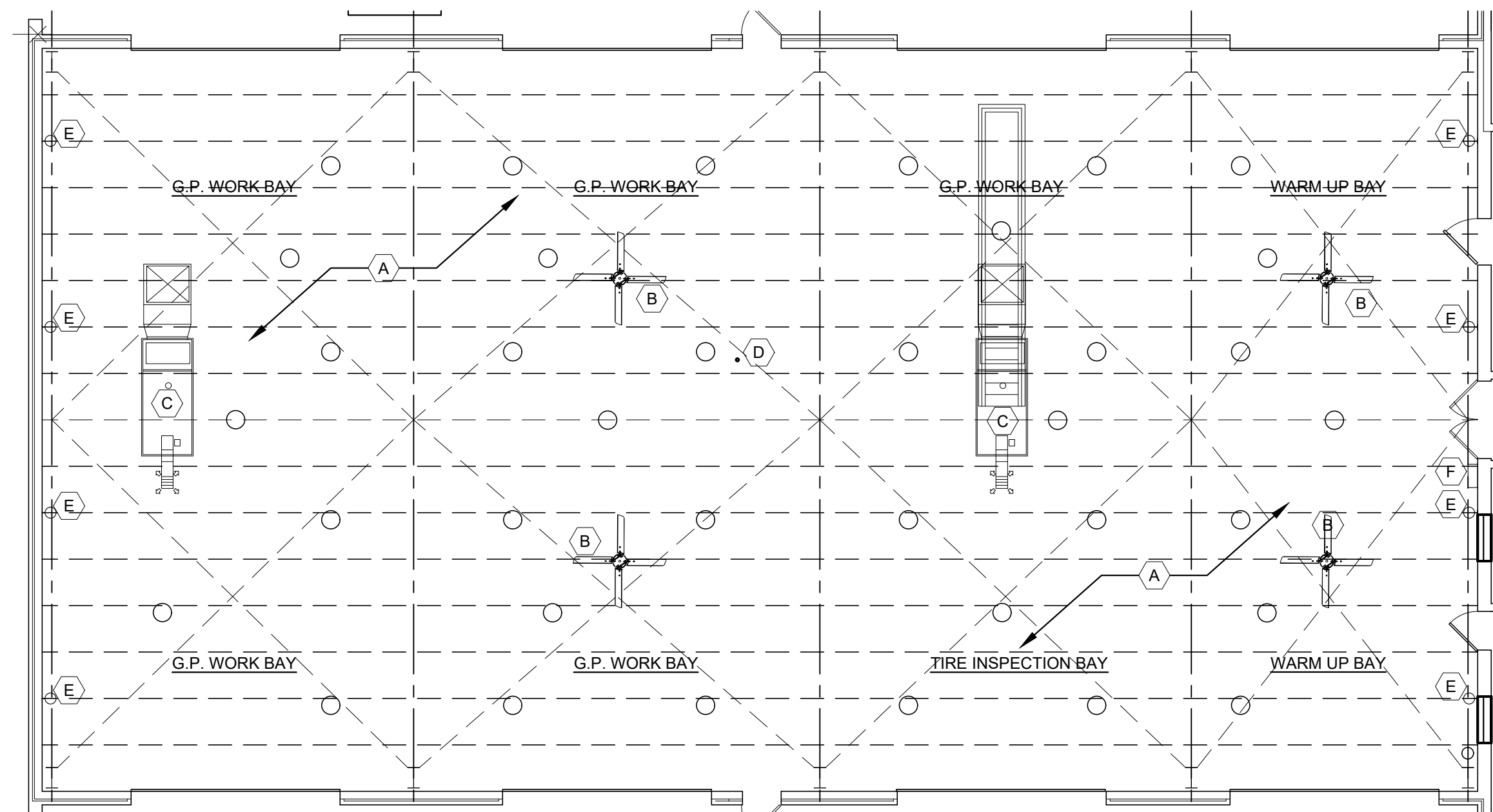
**DEMO & NEW
REFLECTED
CEILING PLANS**

SHEET NUMBER:
A-701
4/20/23
12 OF 22 SHEETS

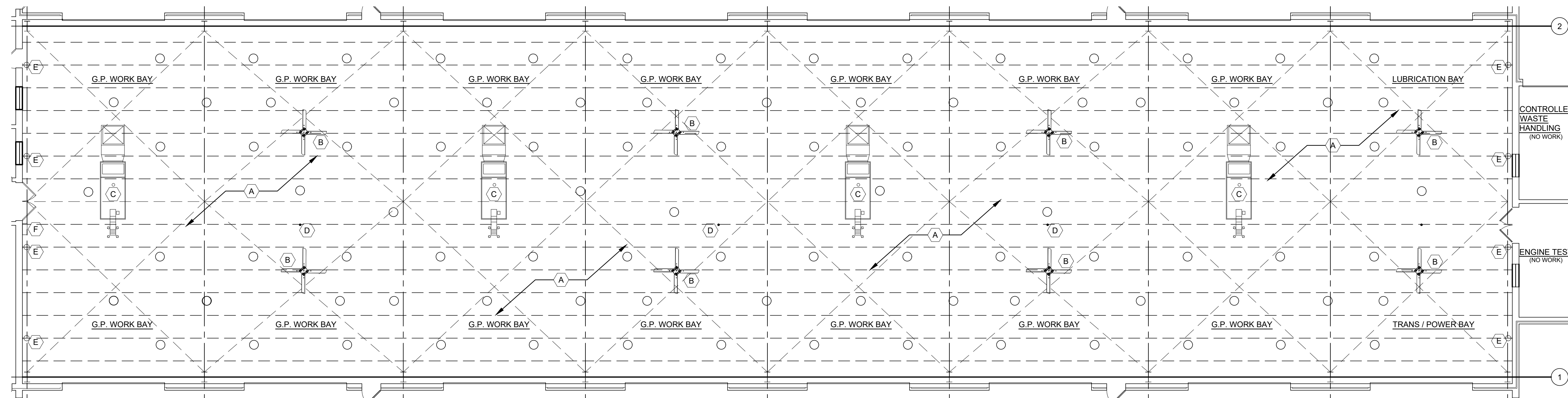


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Expiration Date: 4/20/23
CASCO Diversified Corporation
MO Certificate of Authority #000329 Arch.
MO Certificate of Authority #000613 Eng.

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100



1 REFLECTED CLG. PLAN - NORTH BAY
A-703 SCALE: 3/32" = 1'-0"



2 REFLECTED CLG. PLAN - SOUTH BAY
A-703 SCALE: 3/32" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES:

- MECHANICAL DEVICES SHOWN ON THE REFLECTED CEILING PLAN ARE FOR COORDINATION.
- LIGHTING FIXTURES SHOWN ON THE REFLECTED CEILING PLAN ARE FOR ARCHITECTURAL LOCATIONS, QUANTITIES, AND GENERAL FIXTURE TYPE ONLY. REFER TO ELECTRICAL DRAWINGS FOR EXACT FIXTURE TYPE AND CIRCUITING.
- ALL LIGHTS MUST BE PROPERLY INSTALLED AND SUPPORTED TO STRUCTURAL SUPPORT MEMBERS ABOVE CEILING SYSTEM AND ATTACHED DIAGONALLY ON LIGHT FIXTURE OR WHERE SURFACE MOUNT LIGHT FIXTURES OCCURS AT SUSPENDED CEILING SYSTEM, DO NOT SUPPORT FROM FINISH CEILING MATERIAL.

REFLECTED CEILING PLAN KEYED NOTES:

- (A) EXIST. 2'-0" x 4'-0" LIGHTING TO BE REMOVED. UPGRADE TO LED LIGHTING, ONE FOR ONE REPLACEMENT U.N.O. SEE ELECT. DWGS.
- (B) EXIST. INDUSTRIAL CEILING FAN TO REMAIN. SEE MECH. DWGS.
- (C) EXIST. MAU TO REMAIN. SEE MECH. DWGS.
- (D) EXIST. CO DETECTOR TO REMAIN.
- (E) EXIST. WALL LIGHT FIXTURES TO REMOVED, SAVE FOR REUSE. SEE ELECT. DWGS.
- (F) WALL MOUNTED. FAN CONTROLLER. SEE ELECTRICAL DWGS.

CEILING DEVICE LEGEND

- NEW LED PENDANT LIGHT, SEE ELECT. DWGS.
- ⊕ EXIST. INDUSTRIAL FAN TO REMAIN, SEE MECH. DWGS.
- EXIST. CO DETECTOR

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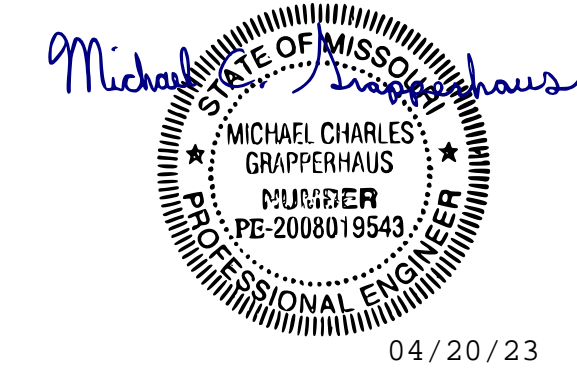
SHEET TITLE:

WORK BAYS
REFLECTED
CEILING PLANS

SHEET NUMBER:

A-702

4/20/23
13 OF 22 SHEETS



MICHAEL C. GRAPPERHAUS
License Number: 2008019543
Expiration Date: 12/31/24

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MO Certificate of Authority #00329 Arch.
MO Certificate of Authority #00613 Eng.

12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

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ASSET# 813630007

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REVISION: _____
DATE: _____
ISSUE DATE: 03/09/2023

CAD DWG FILE: _____
DRAWN BY: MEA
CHECKED BY: MCG
DESIGNED BY: MCG

SHEET TITLE:
**DEMOLITION
AND NEW
FLOOR PLANS**

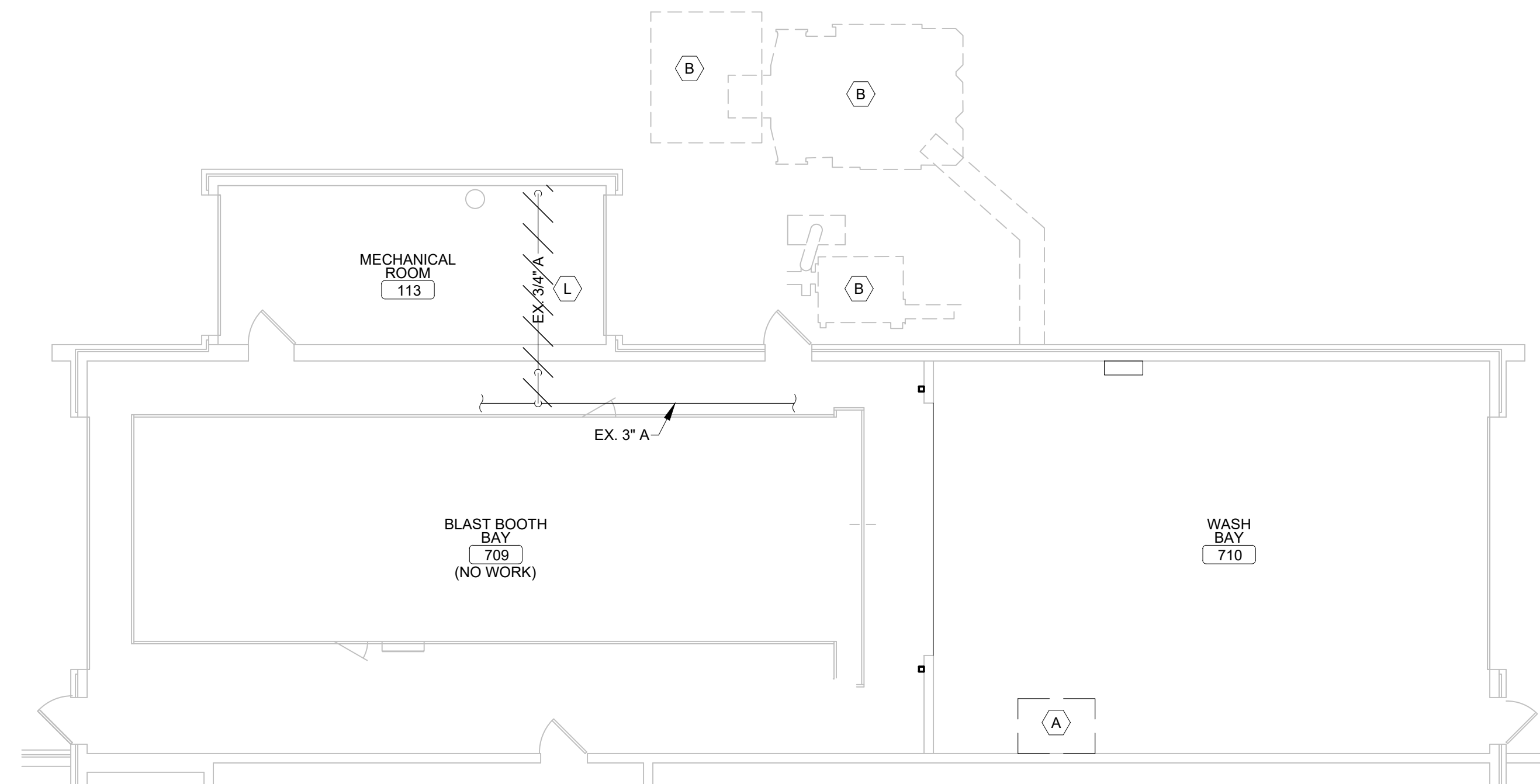
SHEET NUMBER:
M-101
4/20/23
14 OF 22 SHEETS

GENERAL NOTES:

- DEMOLITION PLAN SHOWS APPROXIMATE LAYOUT OF EXISTING MECHANICAL & PIPING SYSTEMS AND IS NOT INTENDED TO PRESENT "AS-BUILT" CONDITIONS. GC TO VISIT SITE AND OTHERWISE BECOME FAMILIAR WITH ACTUAL CONDITIONS WHEN BIDDING THE WORK.
- PROVIDE ALL NECESSARY SHORING, BRACING, AND SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF STRUCTURE OF ELEMENT TO BE DEMOLISHED, AND ADJACENT STRUCTURE OR ELEMENT SHOWN TO REMAIN. SHORING AND BRACING SHALL BE DESIGNED BY CONTRACTOR'S PROFESSIONAL ENGINEER LICENSED IN THE APPLICABLE JURISDICTION.
- G.C. TO PROVIDE DUMPSTER & CONTINUOUS CLEAN-UP DURING DEMOLITION TO PROVIDE SAFE AND CLEAN WORK SITE.
- ALL DIMENSIONS TO BE FIELD VERIFIED AFTER DEMOLITION HAS BEEN COMPLETED. NOTIFY ARCHITECT OF RECORD IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- EXISTING PARTITIONS, FINISHES, EQUIPMENT AND FIXTURES THAT ARE TO REMAIN ARE TO BE PROTECTED BY THE G.C. THROUGHOUT THE DEMOLITION PROCESS UNLESS NOTED OTHERWISE (I.N.O.).
- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ASSOCIATED TO RELOCATED EQUIPMENT & PIPING, INCLUDING ELECTRICAL CONDUIT, JUNCTION BOXES, WIRING, ETC. AND ALL RELATED EQUIPMENT THAT WILL NOT BE RE-USED. TYPICAL THROUGHOUT AREA OF WORK. COORDINATE ALL ELECTRICAL WORK WITH ENGINEERING DRAWINGS AND NEW PLANS.
- VERIFY WITH THE OWNER, PRIOR TO DEMOLITION, ALL REMOVED ITEMS TO BE SALVAGED, STORED, OR THROWN AWAY. REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS FROM BUILDING SITE. COORDINATE WITH THE OWNER ANY AND ALL NECESSARY SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES PRIOR TO COMMENCEMENT. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF ITEMS OR STRUCTURES TO BE DEMOLISHED.
- PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION TO ANY ADJACENT FACILITIES AT NO COST TO OWNER.
- DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT FACILITIES. COORDINATE ANY SHUT OFF OR TEMPORARY DISRUPTION WITH CSMS PROJECT MANAGER.
- DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT STREETS, WALKS OR OTHER FACILITIES OCCUPIED OR USED BY THE GENERAL PUBLIC.
- COMPLY WITH LOCAL, STATE AND FEDERAL APPLICABLE REGULATIONS.
- REFER TO ARCHITECTURAL INSTRUCTION FOR ROOF PATCH & REPAIR RELATED TO REMOVAL OF MECHANICAL & PIPING SYSTEMS.
- DATUM SYMBOL INDICATES POINT OF NEW TO EXISTING CONNECTION.

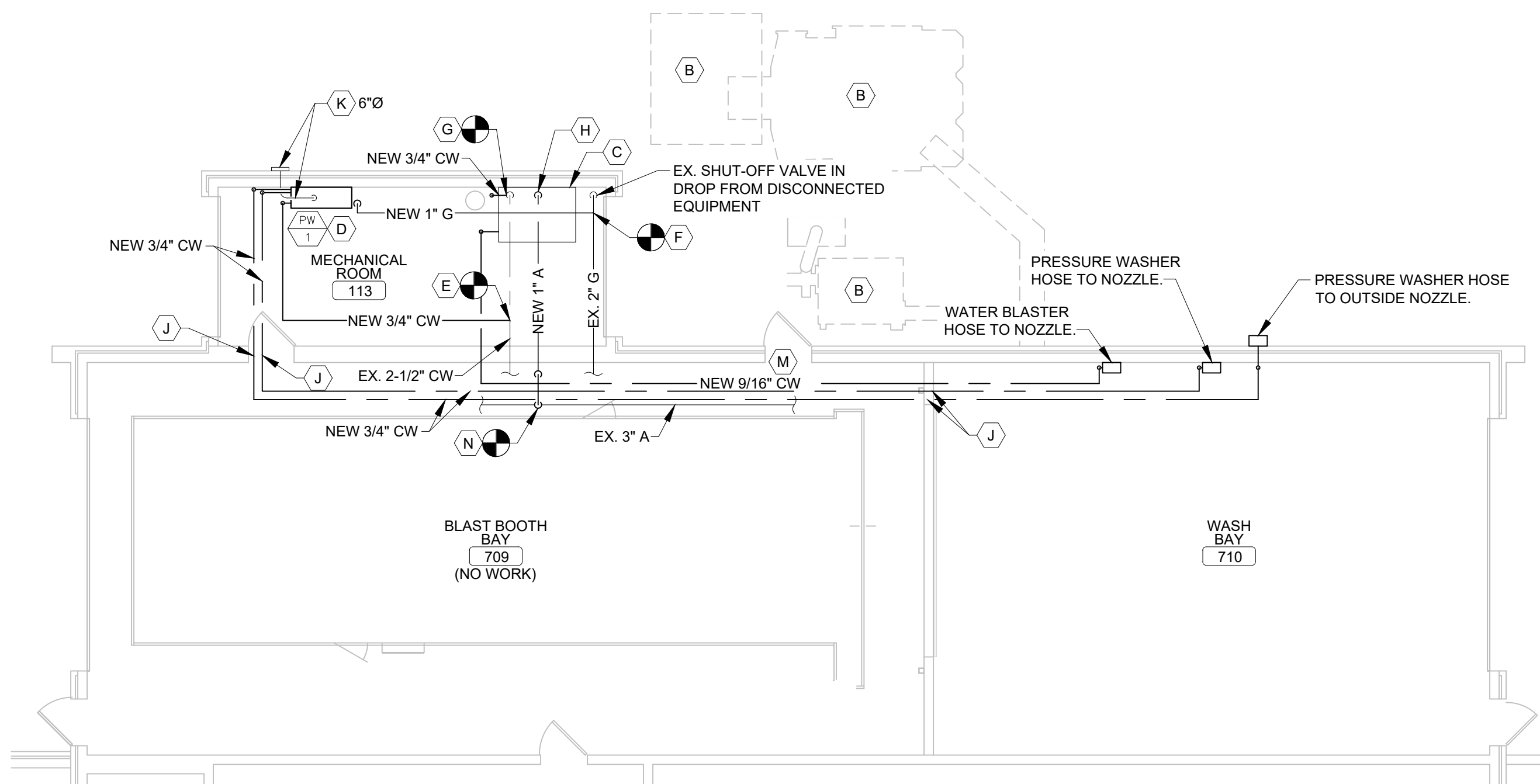
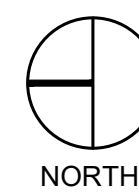
KEYED NOTES:

- DISCONNECT AND RELOCATE EXISTING WATER BLASTER IN WASH BAY. CAP EXISTING PLUMBING.
- EXISTING PARTICULATE AND DUST HOPPERS TO REMAIN.
- EXISTING WATER BLASTER RELOCATED TO MECHANICAL ROOM. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- ALTERNATE #3: CONNECT NEW GAS AND NEW WATER SUPPLY TO NEW PRESSURE WASHER IN MECHANICAL ROOM.
- ALTERNATE #3: CONNECT NEW 3/4" COLD WATER LINE TO EXISTING 2-1/2" COLD WATER LINE. CONTRACTOR SHALL INSTALL SHUTOFF VALVE IN AN EASILY ACCESSIBLE LOCATION ON LINE.
- ALTERNATE #3: CONNECT NEW 1" GAS LINE TO PRESSURE WASHER FROM EXISTING GAS LINE.
- NEW 3/4" COLD WATER LINE FROM EXISTING 2-1/2" CW LINE TO CONNECT TO RELOCATED WATER BLASTER.
- EXTEND AND CONNECT NEW COMPRESSED AIR TO RELOCATED WATER BLASTER IN MECHANICAL ROOM.
- ALTERNATE #3: PROVIDE MINIMUM PENETRATION EQUAL TO PIPE DIAMETER. CLEAN AND REPAIR BLOCK, FINISH SMOOTH.
- ALTERNATE #3: INSTALL PRESSURE WASHER FLUE EXHAUST, 6" DIAMETER, AGA/CSA TYPE B GAS FLUE PIPE WITH ACCESSORIES AND WALL CAP. WALL CAP ELEVATION TO BE 8 FEET ABOVE PAVEMENT.
- DEMO EXISTING 3/4" COMPRESSED AIR LINE IN MECHANICAL ROOM. SEE MECHANICAL FLOOR PLAN FOR NEW COMPRESSED AIR LINE.
- NEW 9/16" UHP PIPING FROM WATER BLASTER TO HOSE. INSTALL AND MOUNT PER MANUFACTURER'S INSTRUCTIONS.
- CONNECT NEW 1" COMPRESSED AIR LINE TO EXISTING 3" COMPRESSED AIR LINE. CONTRACTOR SHALL INSTALL SHUTOFF VALVE IN AN EASILY ACCESSIBLE LOCATION ON LINE.



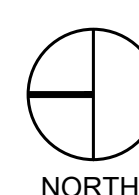
1 DEMO MECHANICAL FLOOR PLAN AT MECH. ROOM & WASH BAY

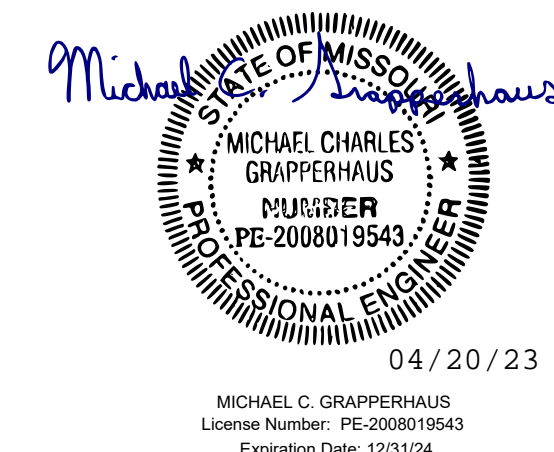
SCALE: 1/8" = 1'-0"



2 MECHANICAL FLOOR PLAN AT MECH. ROOM & WASH BAY

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





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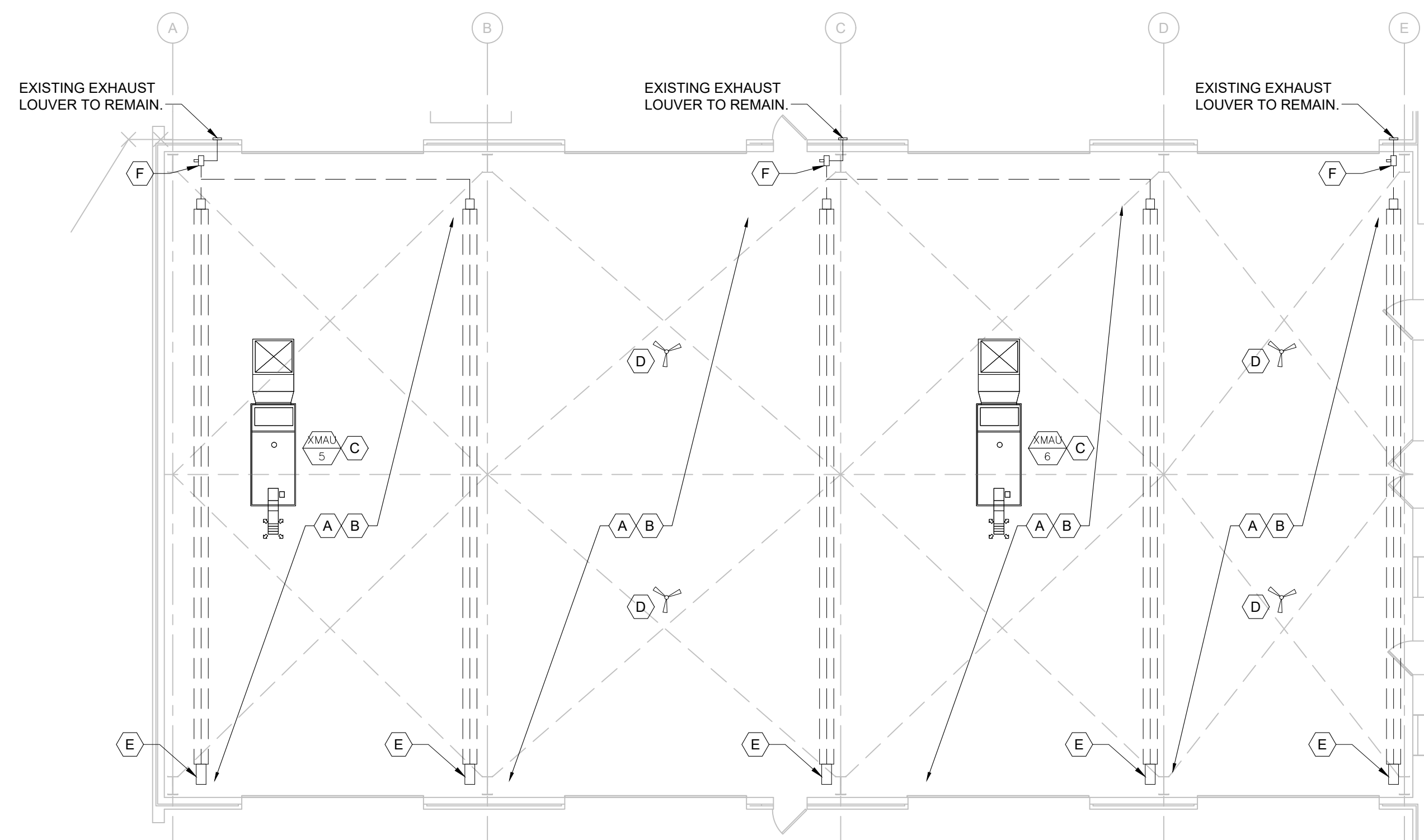
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GENERAL NOTES:

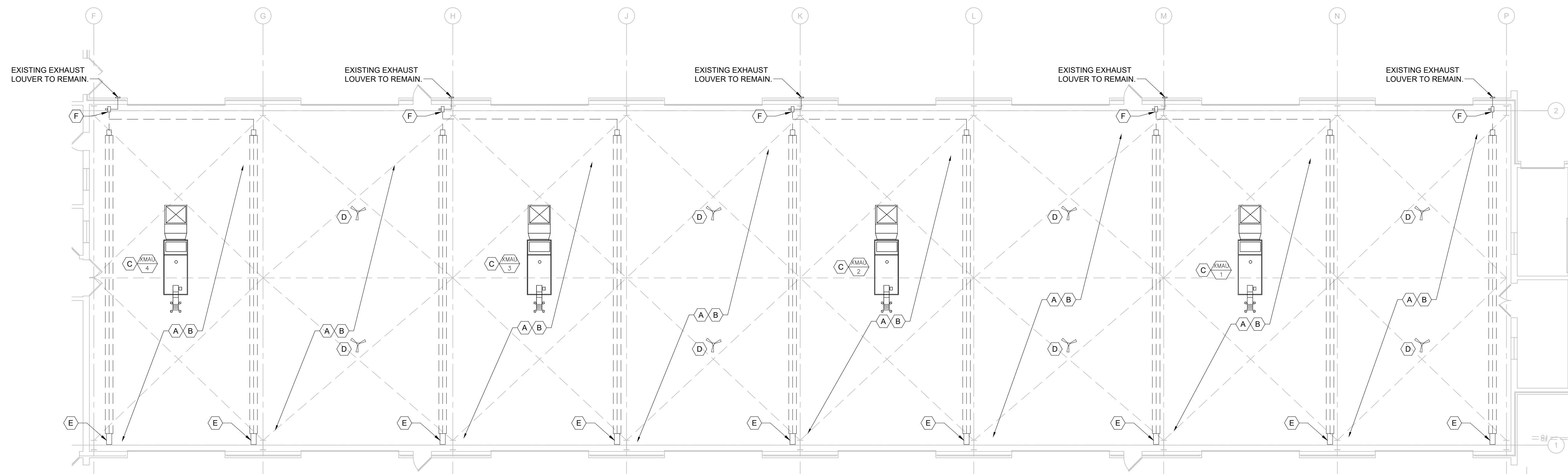
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE CONTRACT DOCUMENTS. THE ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY UNFORESEEN CONDITIONS WHICH MAY AFFECT PROGRESS OR COST OF WORK PERFORMED.
- THE CONTRACT WORK SHALL INCLUDE FURNISHING ALL MATERIAL, EQUIPMENT, TOOLS, LABOR, AND SERVICES NECESSARY FOR COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP AND FOR COMPLIANCE WITH THE DESIGN.
- THE CONTRACTOR SHALL CORRECT ALL ERRORS AND DEVIATIONS AS REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL CONTACT THE OWNER/ENGINEER IMMEDIATELY IF ANY WORKER ENCOUNTERS HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL COORDINATE MECHANICAL DRAWINGS WITH THE ELECTRICAL DRAWINGS AND SPECIFICATIONS BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS IMMEDIATELY. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO THE CONTRACTOR PROCEEDING WITH WORK.
- ALL PRECAUTIONS SHALL BE TAKEN NOT TO DISTURB EXISTING SERVICES AND UTILITIES.
- ALTERNATE #1: THERMOSTATS, & REMOTE TEMPERATURE SENSORS SHALL BE MOUNTED AT 60" A.F.F.
- ALL COMPONENTS OF INDUSTRIAL CEILING FAN SHALL BE INSTALLED BY CONTRACTOR.
- ALTERNATE #1: ALL COMPONENTS OF THE NEW GAS FIRED INFRARED HEATING SYSTEMS (14) SHALL BE INSTALLED BY A FACTORY-TRAINED CONTRACTOR IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

KEYED NOTES:

- A ALTERNATE #1: REMOVE GAS FIRED INFRARED HEATING SYSTEMS AND ALL ASSOCIATED COMPONENTS TUBING, BURNER HEADS, HANGERS, SUPPORTS. DISCONNECT ELECTRIC SERVICE AND PRESERVE CONDUCTORS FOR RECONNECTION TO NEW EQUIPMENT. DISCONNECT GAS PIPING & PRESERVE FOR RECONNECTION TO NEW EQUIPMENT.
- B ALTERNATE #1: REMOVE THERMOSTATS AND ASSOCIATED CONTROLS FOR INFRARED HEATING SYSTEMS.
- C EXISTING MAKE-UP AIR UNITS SERVING THE SERVICE BAYS TO REMAIN IN PLACE FOR CONTINUED USE.
- D CEILING FAN IN WORK BAYS EXISTING TO REMAIN. CLEAN AND REPAIR TO LIKE NEW CONDITION.
- E ALTERNATE #1: GAS PIPING CONNECTION TO INFRARED HEATING UNIT TO REMAIN FOR RECONNECTION TO NEW EQUIPMENT.
- F ALTERNATE #1: REMOVE RADIANT HEATING SYSTEM VACUUM BLOWERS. DISCONNECT ELECTRIC SERVICE AND PRESERVE CONDUCTORS FOR RECONNECTION.



1 WORK BAY - NORTH
M102 SCALE: 3/32" = 1'-0"
NORTH



2 WORK BAY - SOUTH
M102 SCALE: 3/32" = 1'-0"
NORTH

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MAINTENANCE SHOP (CSMS)

COMBINED SUPPORT
MAINTENANCE SHOP (CSMS)
2302 MILITIA DRIVE
JEFFERSON CITY, MISSOURI
65101

PROJECT # T2225-01
SITE # 6300
ASSET# 8136300007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 03/09/2023

CAD DWG FILE: _____
DRAWN BY: MEA
CHECKED BY: MCG
DESIGNED BY: MCG

SHEET TITLE:
WORK BAYS
MECHANICAL
DEMOLITION
PLAN

SHEET NUMBER:
M-102
4/20/23
15 OF 22 SHEETS

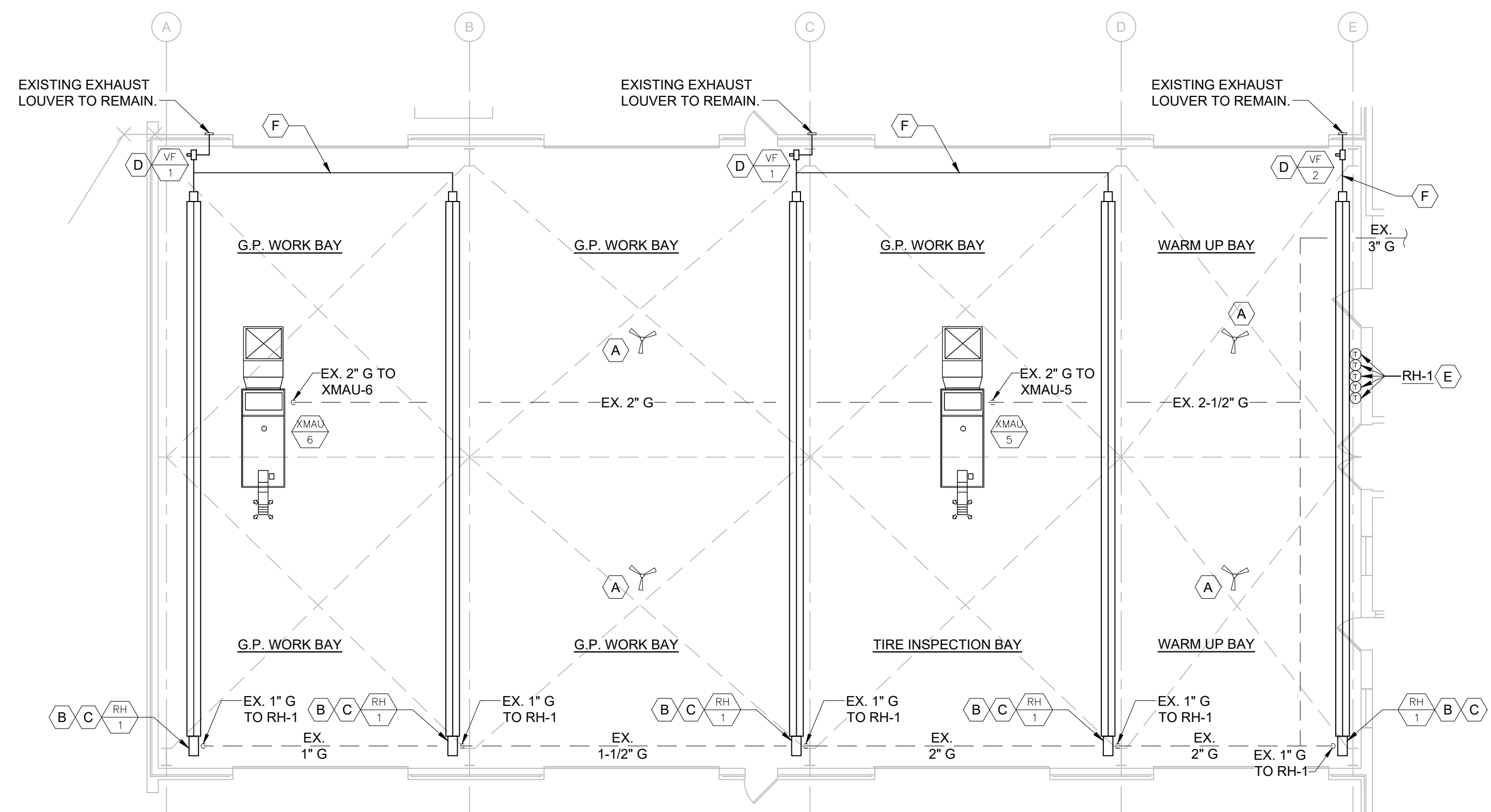


MICHAEL C. GRAPPERHAUS
License Number: PE-2008019543
Expiration Date: 12/31/24

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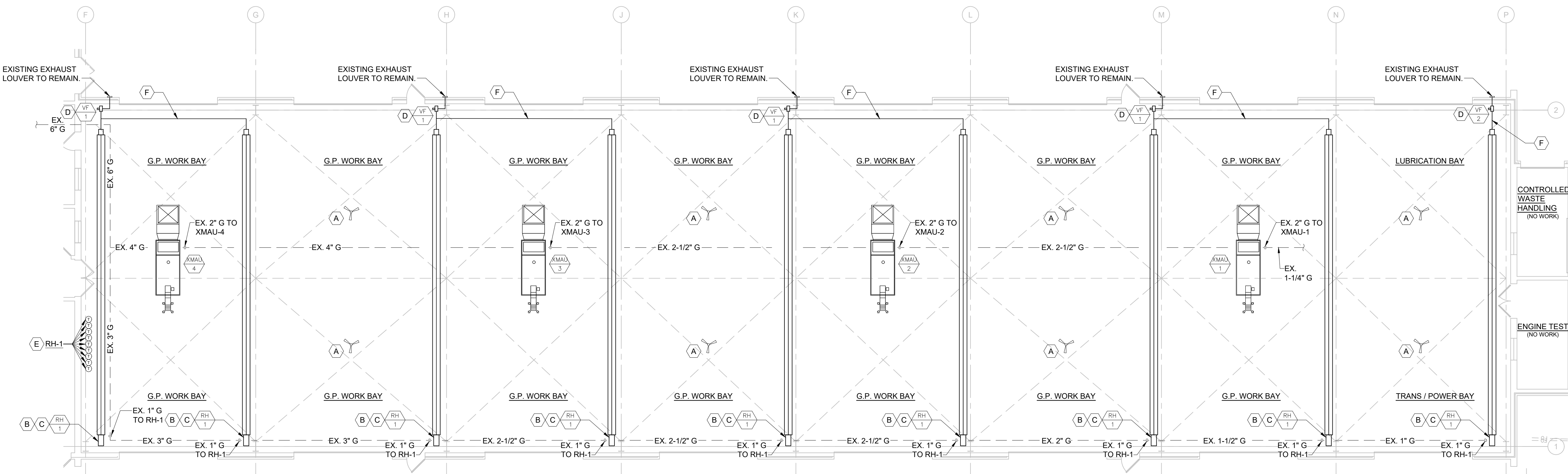
1 WORK BAY - NORTH
M103 SCALE: 3/32" = 1'-0"
NORTH

GENERAL NOTES:

- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE CONTRACT DOCUMENTS. THE ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY UNFORESEEN CONDITIONS WHICH MAY AFFECT PROGRESS OR COST OF WORK PERFORMED.
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- THE CONTRACTOR SHALL CORRECT ALL ERRORS AND DEVIATIONS AS REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL CONTACT THE OWNER/ENGINEER IMMEDIATELY IF ANY WORKER ENCOUNTERS HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL COORDINATE MECHANICAL DRAWINGS WITH THE ELECTRICAL DRAWINGS AND SPECIFICATIONS BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS IMMEDIATELY. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO THE CONTRACTOR PROCEEDING WITH WORK.
- ALL PRECAUTIONS SHALL BE TAKEN NOT TO DISTURB EXISTING SERVICES AND UTILITIES.
- ALTERNATE #1: THERMOSTATS, & REMOTE TEMPERATURE SENSORS SHALL BE MOUNTED AT 6'0" A.F.F.
- ALL COMPONENTS OF INDUSTRIAL CEILING FAN SHALL BE INSTALLED BY CONTRACTOR.
- ALTERNATE #1: ALL COMPONENTS OF THE NEW GAS FIRED INFRARED HEATING SYSTEMS (14) SHALL BE INSTALLED BY A FACTORY-TRAINED CONTRACTOR IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

KEYED NOTES:

- (A) CEILING FAN IN WORK BAYS EXISTING TO REMAIN. CLEAN AND REPAIR TO LIKE NEW CONDITION.
- (B) ALTERNATE #1: PROVIDE AND INSTALL NEW GAS FIRED INFRARED HEATING SYSTEM TIE IN EXISTING LOCATIONS, CONSISTING OF: BURNER HEAD, INFRARED TUBULAR ASSEMBLY, VACUUM PRODUCER, WALL EXHAUST TERMINATION. SEE SCHEDULE ON SHEET M-601.
- (C) ALTERNATE #1: RECONNECT NEW BURNER HEADS TO EXISTING GAS PIPING.
- (D) ALTERNATE #1: REPLACE RADIANT HEATING SYSTEM VACUUM FANS WITH NEW VACUUM FANS AT ELEVATION OF THE EXISTING FANS.
- (E) ALTERNATE #1: INSTALL THERMOSTATS AT 5 FT. AFF. ATTACH TO WALL.
- (F) ALTERNATE #1: INSTALL NEW GAS FLUE FOR INFRARED HEATING SYSTEMS. SEE VACUUM BLOWER SCHEDULE ON SHEET M-601 FOR FURTHER INFORMATION.



2 WORK BAY - SOUTH
M103 SCALE: 3/32" = 1'-0"
NORTH

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65101

PROJECT # T2225-01
SITE # 6300
ASSET# 8136300007

REVISION: _____
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REVISION: _____
DATE: _____
ISSUE DATE: 03/09/2023

CAD DWG FILE: _____
DRAWN BY: MEA
CHECKED BY: MCG
DESIGNED BY: MCG

SHEET TITLE:
**WORK BAYS
MECHANICAL
FLOOR PLAN**

SHEET NUMBER:
M-103
4/20/23
16 OF 22 SHEETS

VF # VACUUM BLOWER SCHEDULE (FOR RADIANT HEATERS) (BASIS OF DESIGN) ALTERNATE #1									
MARK	MANUFACTURER & MODEL	SYSTEM MBH	INLET/OUTLET CONNECTION SIZE	RPM	VOLTS	HP	RLA	UNIT DIMENSIONS	MOUNTING HEIGHT
VF-1	DETROIT RADIANT PRODUCTS, MODEL: PB9B-1PH	280 - 545	4" RND.	3450	208 / 1	3/4	5.0	LENGTH = 19.8" WIDTH = 14.5" HEIGHT = 16.5"	MATCH EXISTING
VF-2	DETROIT RADIANT PRODUCTS, MODEL: PB8B-1PH	50 - 275	4" RND.	3450	208 / 1	1/2	3.9	LENGTH = 19.8" WIDTH = 11.0" HEIGHT = 16.5"	MATCH EXISTING

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT:
* REFLECT O-RAY (COMBUSTION RESEARCH CORP), SPACE-RAY (GAS-FIRED PRODUCTS, INC), ROBERTS / GORDON, INC.

NOTES:
1. VACUUM BLOWERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ELECTRICAL CONTRACTOR TO PROVIDE LINE VOLTAGE WIRING TO THE CONTROL RELAY OF THE VACUUM BLOWERS.
3. SEE PLAN VIEW FOR VACUUM BLOWER LOCATIONS.
4. VACUUM BLOWERS SHALL MAINTAIN A CONTINUOUS NEGATIVE PRESSURE DURING OPERATION, THROUGH CONNECTED BURNERS, BURNER TUBES, EMITTERS, BALANCING DAMPERS, AND TAIL PIPE.
5. FLUE PIPE MATERIAL SHALL BE WELDED SEAM ALUMINIZED STEEL TUBING WITH LONG RADIUS SINGLE PIECE WELDED FITTINGS (ELBOWS & TEES).
6. TUBING JOINTS SHALL BE SECURED & SEALED WITH SCREWS AND HIGH TEMPERATURE MASTIC SEALANT.
7. TEFC MOTOR WITH HEAT SLINGER.
8. PRIMARY AIR DAMPER AT INLET TO VACUUM BLOWER
9. WARRANTY: 1 YEAR VACUUM BLOWER.

RH # GAS FIRED RADIANT HEATER SCHEDULE (NEGATIVE PR) (BASIS OF DESIGN) ALTERNATE #1												
MARK	MANUFACTURER & MODEL	MBH INPUT	THERM EFF	GAS CONN	TUBE SIZE	BURNER TUBE LENGTH	COMBUST CHAMBER LENGTH	RADIANT EMITTER LENGTH	POWER REQUIREMENTS	VACUUM BLOWER DATA	UNIT DIMENSIONS	MOUNTING HEIGHT
RH-1	DETROIT RADIANT PRODUCTS, MODEL: HLV-150	150 / 120	92%	7/8"	4" RND.	60 FT	10 FT.	60 FT.	120 / 1PH / 2 AMP	REFER TO VACUUM BLOWER SCHEDULE	WIDTH = 18" HEIGHT = 18"	MATCH EXISTING

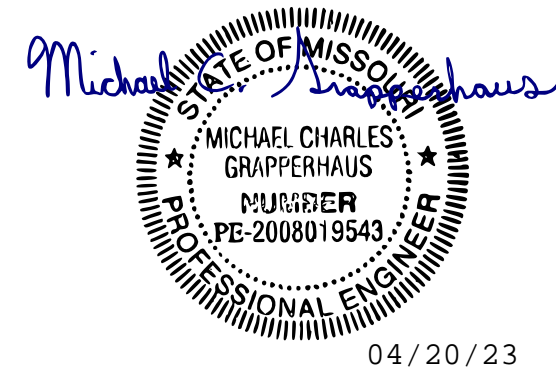
ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT:
* REFLECT O-RAY (COMBUSTION RESEARCH CORP), SPACE-RAY (GAS-FIRED PRODUCTS, INC), ROBERTS / GORDON, INC.

NOTES:
1. HEATERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. HEATERS SHALL BE CONTROLLED BY A SINGLE TWO-STAGE 24-7 PROGRAMMABLE DIGITAL THERMOSTAT, MOUNTED 4'-0" ABOVE THE FINISHED FLOOR. SEE MECHANICAL PLAN FOR LOCATIONS.
3. VACUUM BLOWERS SHALL MAINTAIN A CONTINUOUS NEGATIVE PRESSURE DURING OPERATION, THROUGH CONNECTED BURNERS, BURNER TUBES, EMITTERS, BALANCING DAMPERS, AND TAIL PIPE.
4. COMBUSTION TUBES: 4" DIA 16 GAUGE TITANIUM ALLOY STEEL TUBES.
5. EMITTER TUBES: 4" DIA ALUMINIZED STEEL TUBES WITH EMISSIVE BLACK COATING (EMISSIVITY = 0.95) .
6. LINEAR PARABOLIC REFLECTORS ALONG ENTIRE LENGTH OF COMBUSTION CHAMBER & EMITTERS: HIGHLY POLISHED REFLECTIVE SURFACE TO DIVERT RADIANT ENERGY TO THE SPACE & FLOOR
7. HOT ROLLED TUBING NOT ALLOWED.
8. TWO-STAGE GAS VALVE, HOT SURFACE IGNITION, DIGITAL BURNER CONTROLS
9. FLUE PIPE MATERIAL SHALL BE WELDED SEAM ALUMINIZED STEEL TUBING WITH LONG RADIUS SINGLE PIECE WELDED FITTINGS (ELBOWS & TEES).
10. TUBING JOINTS SHALL BE SECURED & SEALED WITH SCREWS AND HIGH TEMPERATURE MASTIC SEALANT.
11. WARRANTY: 3-YEAR BURNER CONTROL BOX, 1 YEAR VACUUM PUMP, 5 YEARS COMBUSTION & RADIANT TUBES, 10 YEARS BURNER.

PW # PRESSURE WASHER SYSTEM SCHEDULE (BASIS OF DESIGN) ALTERNATE #3																			
MARK	MANUFACTURER	MODEL #	TYPE	WATER				STEAM			ELECTRIC			NATURAL GAS - INPUT		WEIGHT (LBS)	EQUIVALENT MANUF/ MODEL #	EQUIVALENT MANUF/ MODEL #	
				HOT	COLD	GPM	PSI	TEMP	LBS/HR	PSI	HP	VOLTS	PHASE	HZ	CFH				IN. W.C.
PW-1	DAIMER INDUSTRIES	SM-15900-236DH	FIXED MOUNTED FREE STANDING PRESSURE WASHER SYSTEM	180-210 F	AMBIENT	5	3000	330 F	AMBIENT	3000	10	208	3	60	446	7-14	1025	EASY-KLEEN MODEL: EZN3004-3	DELCO MODEL: 65044

ACCESSORIES:
1. DIRECT DRIVE, CAPACITOR START CONTINUOUS DUTY MOTOR -- NEMA DESIGN B.
2. NEMA 1 DISCONNECT
3. CHEMICAL INFUSION PORT -- HIGH DISCHARGE PRESSURE
4. 3 FOOT TRIGGER WAND WITH 0, 15, 25, 40 DEGREE STEAM NOZZLES (2 TOTAL)
5. 100 FEET OF HIGH PRESSURE STEAM HOSE -- DISCHARGE (2 TOTAL)
6. DIMENSIONS (W x D x H): 52" x 23" x 50"
7. AUTOMATIC SHUTOFF TECHNOLOGY: TRIGGER CONTROL TO MOTOR TO REDUCE EQUIPMENT WEAR
8. ELECTRONIC SPARK IGNITION NATURAL GAS HEAT EXCHANGER

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



04/20/23
MICHAEL C. GRAPPERHAUS
License Number: PE-2008019543
Expiration Date: 12/31/24
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PROJECT # T2225-01
SITE # 6300
ASSET# 8136300007

REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
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ISSUE DATE: 03/09/2023

CAD DWG FILE: _____
DRAWN BY: MEA
CHECKED BY: MCG
DESIGNED BY: MCG

SHEET TITLE:

MECHANICAL
SCHEDULES

SHEET NUMBER:

M-601

4/20/23
17 OF 22 SHEETS



04/20/23

DAVID A. TRETTER
License Number: 021293
Expiration Date: 12/31/23

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MOUNT: SURFACE		120/208		3-PHASE, 4W		EX PANEL P7		CAPACITY: 200A		INT CAP: 10KA							
LOCATION: BAY ADDITION						LUGS: MLO		DEMAND LOAD: 143A		AV. FAULT: 6A							
CTK	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CTK
1				10.8				A				1.2					2
3				10.8		SPECIAL EQUIP OUTLET	100	3	15	3	MAJ-6			1.2			4
5				10.8				C				1.2					6
7		1.1				REC-SHOP	20	1	A	20	RH 1 & 2			0.5			8
9				1.2		OH DOOR	20	1	B	20	PENDANT LIGHTS	1.3					10
11		0.2				RTU RECEP	20	1	C	20	WALL LIGHTS	0.5					12
13						SPARE	20	1	A							3.7	14
15						SPARE	20	1	B	40	PW-1 PRESSURE WASHER					3.7	16
17						SPARE	20	1	C							3.7	18
19						SPARE	20	1	A	20	SPARE						20
21						SPARE	20	1	B	20	SPARE						22
23						PROVISION			C		PROVISION						24
25						PROVISION			A		PROVISION						26
27						PROVISION			B		PROVISION						28
29						PROVISION			C		PROVISION						30
PHASE BALANCE		LOAD TYPE		CONNECTED		DEMAND		DEMAND FORMULA				TOTAL LOAD					
⊙ LOAD		% RECEPTACLE		1.8 KVA		2.3 KVA		LOAD X 125% NEC 210.19 CONTINUOUS				CONNECTED DEMAND					
A 16.9 KVA		33%		1.3 KVA		1.3 KVA		10KVA + 50% REMAINDER NEC 220.44				51.7 KVA 51.4KVA					
B 18.3 KVA		36%		3.9 KVA		3.2 KVA		LOAD X 80% (USED MCA IN CALCULATION)				143.6A 142.7A					
C 16.2 KVA		32%		44.7 KVA		44.7 KVA		LOAD X 100% NEC 210.19 NON-CONT.				FILENAME:					
				0.0 KVA		0.0 KVA		0 NONCOINCIDENTAL LOADS NEC 220.60				2202527 LOAD.xlsm					

NOTES:
A. EXISTING PANEL.
B. NEW WORK IN "BOLD".
C. PROVIDE CIRCUIT BREAKER WITH SAME INTERRUPTING RATING AND MANUFACTURER.

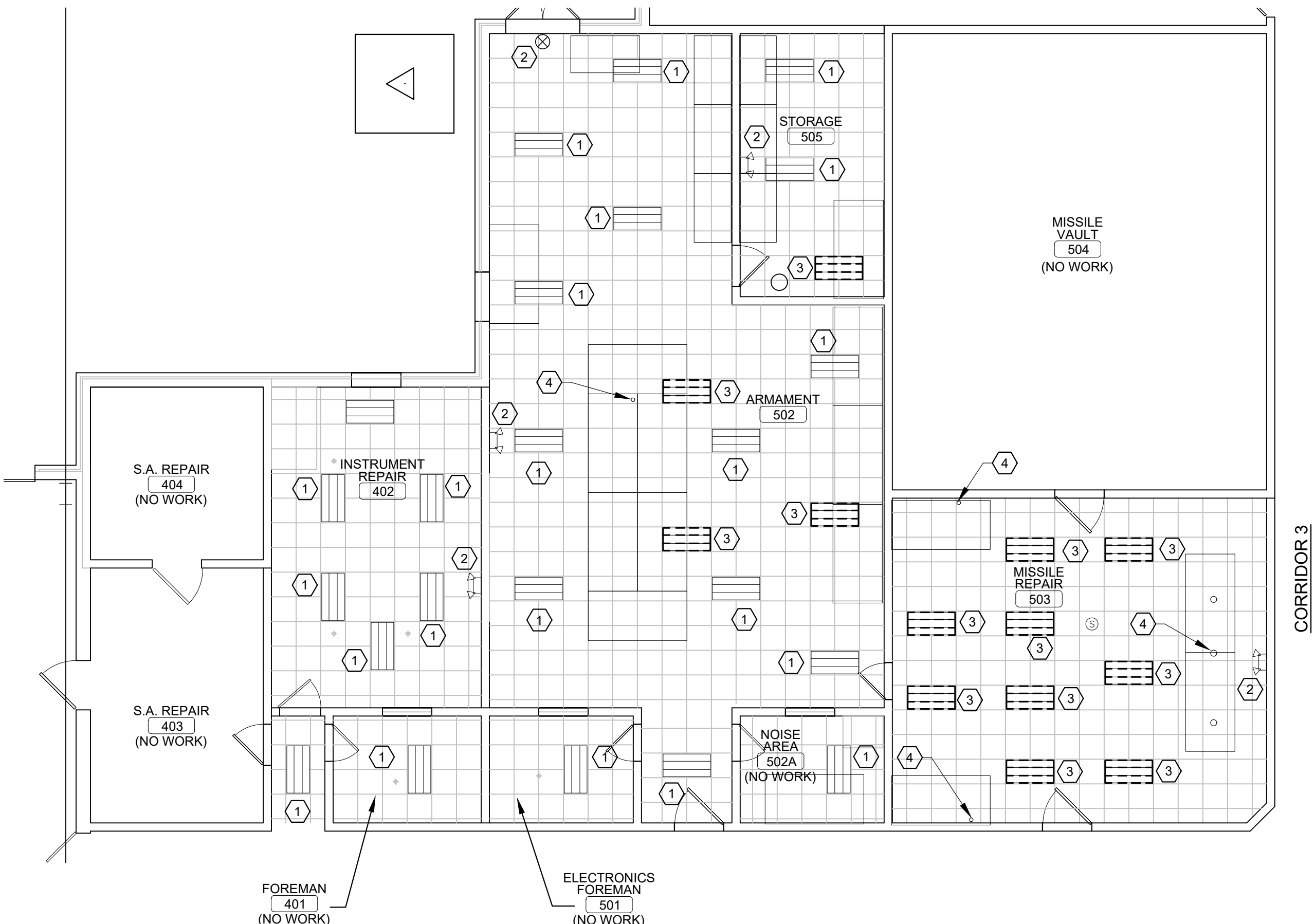
EQUIPMENT SCHEDULE										FILE: 2202527 LOAD.xlsm
PLAN MARK	EQUIPMENT SERVED	LOAD	VOLTS PHASE	FED BY	DISC BY	MCA	MOCPP	FEEDER	REMARKS	
PW-1	PRESSURE WASHER	11.10KVA	208/3	P7	EC	30.80	40A	(3)#8,#10G 3/4" C	ALT #3	

GENERAL NOTES:

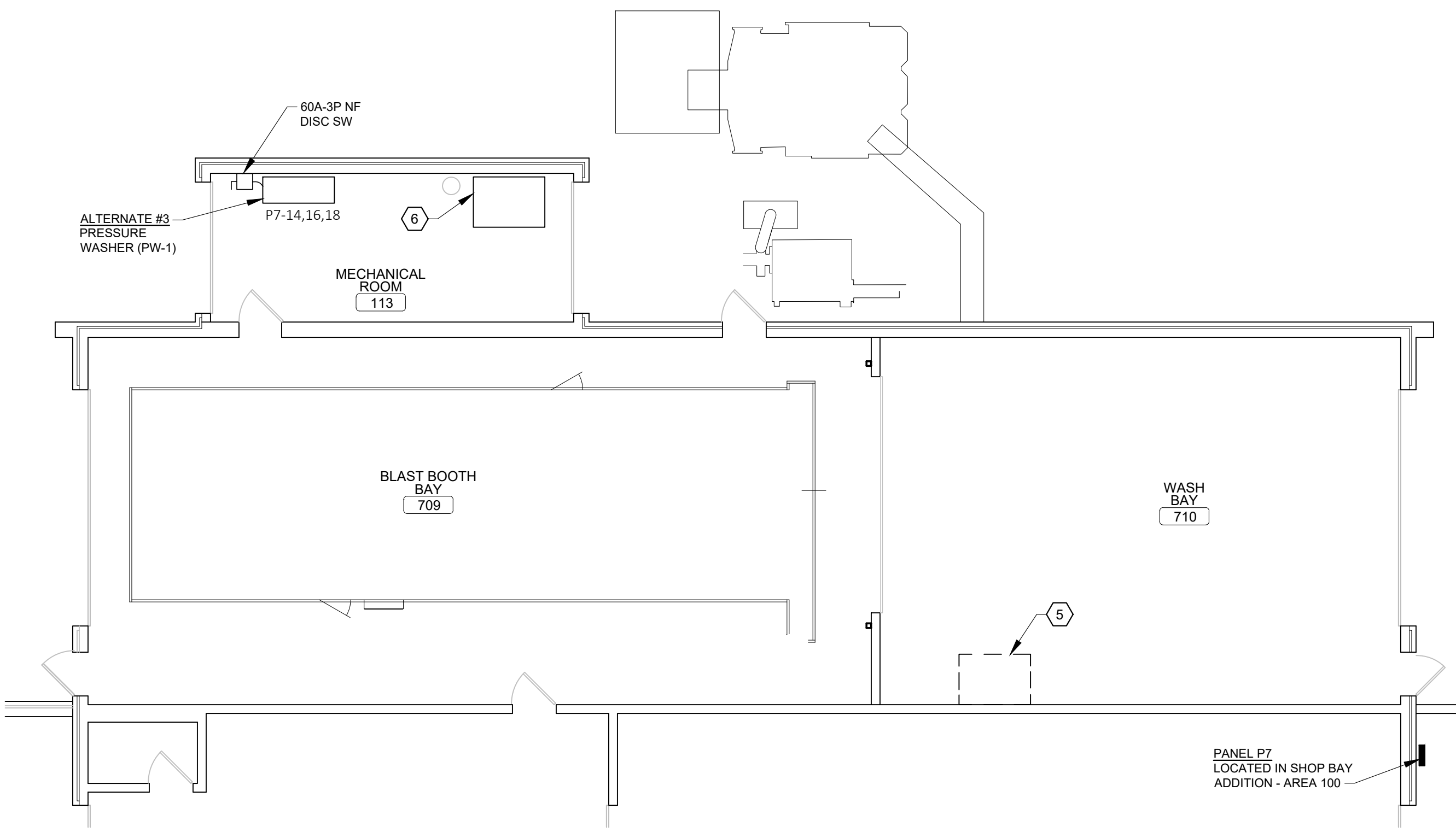
- COORDINATE DEMOLITION AND NEW WORK WITH ALL DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- PERFORM ALL WORK IN ACCORDANCE WITH THE ELECTRICAL CODE, O.S.H.A., PERTINENT NFPA CODES, THE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTIONS, AND ALL STANDARDS APPLIED BY THE BUILDING MANAGEMENT. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR AREAS OF DEMOLITION. EXISTING LIGHTING FIXTURES AND OTHER NOTED CEILING MOUNTED DEVICES TO BE REMOVED IN THESE AREAS SHALL BE DISCONNECTED FROM THEIR EXISTING SOURCES TO ALLOW FOR REMOVAL UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
- MAINTAIN CONTINUITY OF ALL ACTIVE LIGHTING & POWER CIRCUITS. INTERRUPT WIRING AND REROUTE WHERE REQUIRED TO POWER EXISTING DEVICES TO REMAIN. UPDATE PANELBOARD CIRCUIT DIRECTORIES FOR ALL PANELBOARDS AFFECTED BY THE WORK.
- OWNER RETAINS RIGHTS OF SALVAGE FOR ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT AND LIGHT FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO SALVAGED EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- ALL PREVIOUSLY ABANDONED OR OBSOLETE CONDUIT AND WIRING SHALL BE REMOVED IN ITS ENTIRETY.
- REVIEW EXISTING CONDITIONS PRIOR TO START OF DEMOLITION AND COORDINATE ANY POWER INTERRUPTIONS WITH OWNER'S REPRESENTATIVE.
- SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS, AND ROOF WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS.
- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, SYSTEMS, CONDUIT AND WIRING NO LONGER REQUIRED AFTER PROJECT COMPLETION.

KEYED NOTES:

- EXISTING LIGHTING TO REMAIN IN-PLACE AND CONNECTED.
- EXISTING EMERGENCY & EXIT LIGHT FIXTURE TO REMAIN IN-PLACE AND CONNECTED, UNO.
- RELOCATE LIGHT FIXTURE; DISCONNECT, REMOVE EXISTING CEILING LIGHT FIXTURE AND SALVAGE FOR REUSE. FOR NEW LOCATION, SEE SHEET E103.
- EXISTING TABLE & DESK POWER/COMMUNICATION FEEDS TO REMAIN IN-PLACE.
- EXISTING WATER BLASTER; PRIOR TO REMOVAL AND RELOCATION OF WATER BLASTER, DISCONNECT POWER FEEDERS AND TIE-UP FOR REUSE.
- RELOCATED WATER BLASTER; AFTER WATER BLASTER IS IN-PLACE, EXTEND FEEDER TO NEW LOCATION AND RECONNECT AS REQUIRED.



1 LIGHTING DEMO PLAN - ARMAMENT
SCALE: 1/8" = 1'-0"



2 ELECTRICAL FLOOR PLAN AT MECH. ROOM
SCALE: 1/8" = 1'-0"



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JEFFERSON CITY, MISSOURI
65101

PROJECT # T2225-01
SITE # 6300
ASSET# 8136300007

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DATE:
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DATE:
REVISION:
DATE:
ISSUE DATE: 04/20/2023

CAD DWG FILE:
DRAWN BY: RA
CHECKED BY: WJK
DESIGNED BY:

SHEET TITLE:

ELECTRICAL
FLOOR PLANS

SHEET NUMBER:
E-101
4/20/23
18 OF 22 SHEETS

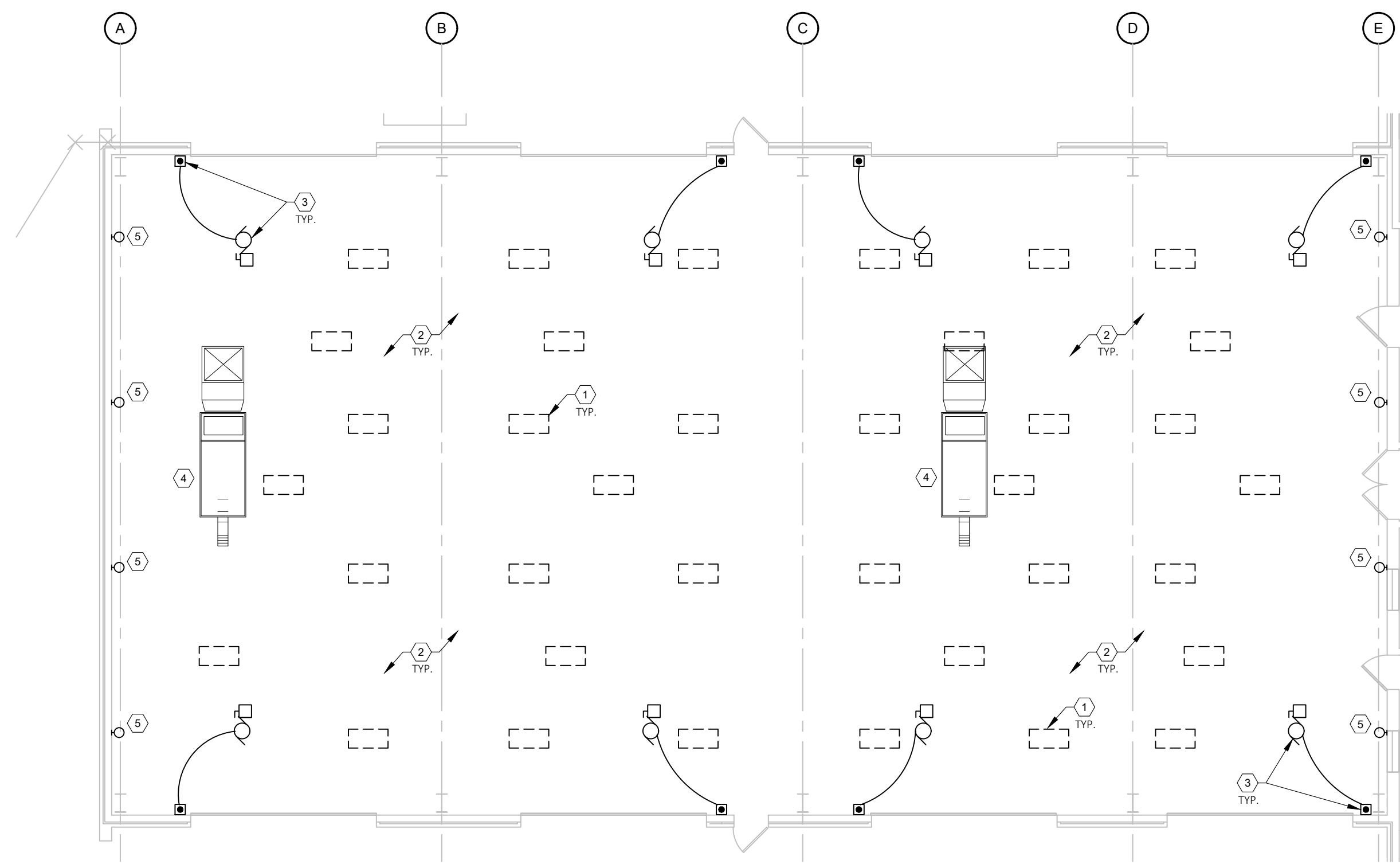


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DEMOLITION GENERAL NOTES:

A. COORDINATE DEMOLITION AND NEW WORK WITH ALL DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

B. PERFORM ALL WORK IN ACCORDANCE WITH THE ELECTRICAL CODE, O.S.H.A., PERTINENT NFPA CODES, THE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTIONS, AND ALL STANDARDS APPLIED BY THE BUILDING MANAGEMENT. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION.

C. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS OF DEMOLITION. EXISTING LIGHTING FIXTURES AND OTHER NOTED CEILING MOUNTED DEVICES TO BE REMOVED IN THESE AREAS SHALL BE DISCONNECTED FROM THEIR EXISTING SOURCES TO ALLOW FOR REMOVAL UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.

D. MAINTAIN CONTINUITY OF ALL ACTIVE LIGHTING & POWER CIRCUITS. INTERRUPT WIRING AND REROUTE WHERE REQUIRED TO POWER EXISTING DEVICES TO REMAIN. UPDATE PANELBOARD CIRCUIT DIRECTORIES FOR ALL PANELBOARDS AFFECTED BY THE WORK.

E. OWNER RETAINS RIGHTS OF SALVAGE FOR ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT AND LIGHT FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO SALVAGED EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.

F. ALL PREVIOUSLY ABANDONED OR OBSOLETE CONDUIT AND WIRING SHALL BE REMOVED IN ITS ENTIRETY.

G. REVIEW EXISTING CONDITIONS PRIOR TO START OF DEMOLITION AND COORDINATE ANY POWER INTERRUPTIONS WITH OWNER'S REPRESENTATIVE.

H. SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS, AND ROOF WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS.

I. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, SYSTEMS, CONDUIT AND WIRING NO LONGER REQUIRED AFTER PROJECT COMPLETION.

DEMOLITION KEYED NOTES:

1. EXISTING Highbay LIGHT FIXTURES: DISCONNECT AND REMOVE Highbay LIGHT FIXTURES. TIE-UP WIRING AND MAKE SAFE FOR REUSE. SEE DEMO GENERAL NOTE - E.

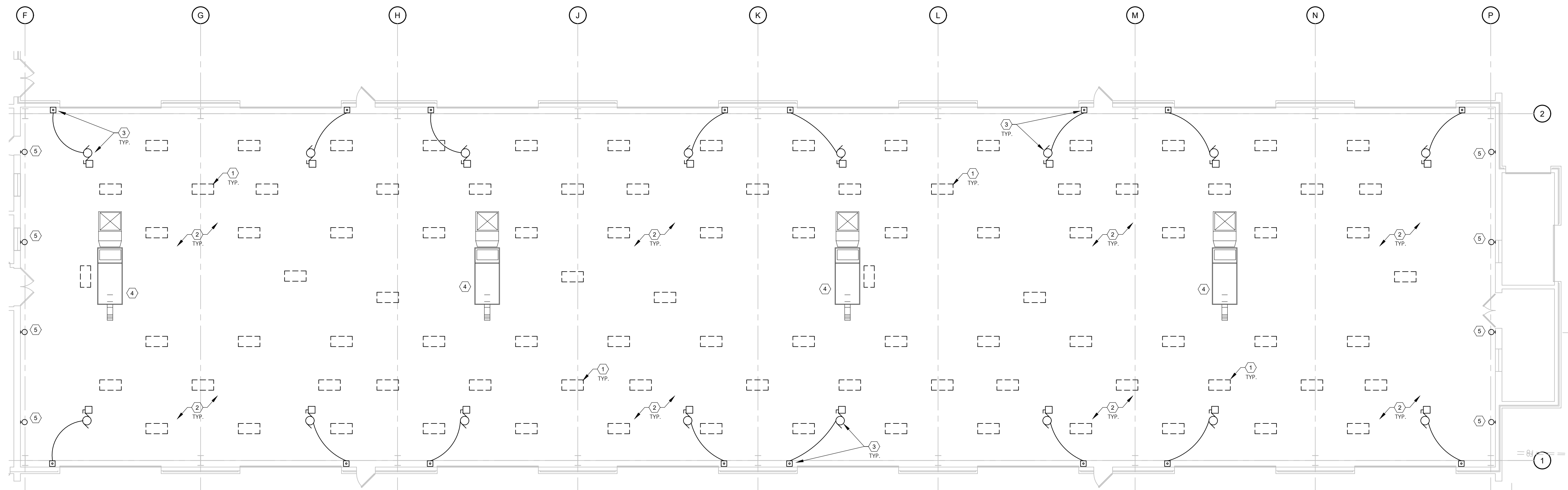
2. CEILING PADDLE FANS TO REMAIN IN-PLACE AND CONNECTED.

3. EXISTING OVERHEAD DOOR (ALTERNATE #2): PRIOR TO REMOVAL OF OH DOOR MOTOR AND WALL CONTROLLER, DISCONNECT FEEDER, TIE-UP AND MAKE SAFE FOR REUSE. SALVAGE DISCONNECT AND REUSE IF COMPATIBLE WITH NEW DOOR MOTOR. SEE SHEET E104 FOR NEW WORK.

4. EXISTING ROOF TOP UNIT TO REMAIN IN-PLACE AND CONNECTED.

5. EXISTING WALL LIGHT FIXTURES: DISCONNECT AND REMOVE WALL MOUNT LIGHT FIXTURES. TIE-UP WIRING AND MAKE SAFE FOR REUSE. SEE DEMO GENERAL NOTE - E.

1
E102 **ELECTRICAL DEMO WORK BAY - NORTH**
SCALE: 3/32" = 1'-0"
NORTH



2
E102 **ELECTRICAL DEMO WORK BAY - SOUTH**
SCALE: 3/32" = 1'-0"
NORTH

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SITE # 6300
ASSET# 8136300007

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DRAWN BY: _____
CHECKED BY: RA
DESIGNED BY: WJK

SHEET TITLE:
**ELECTRICAL
DEMO WORK
BAYS FLOOR
PLANS**

SHEET NUMBER:
E-102
4/20/23
19 OF 22 SHEETS



04/20/23

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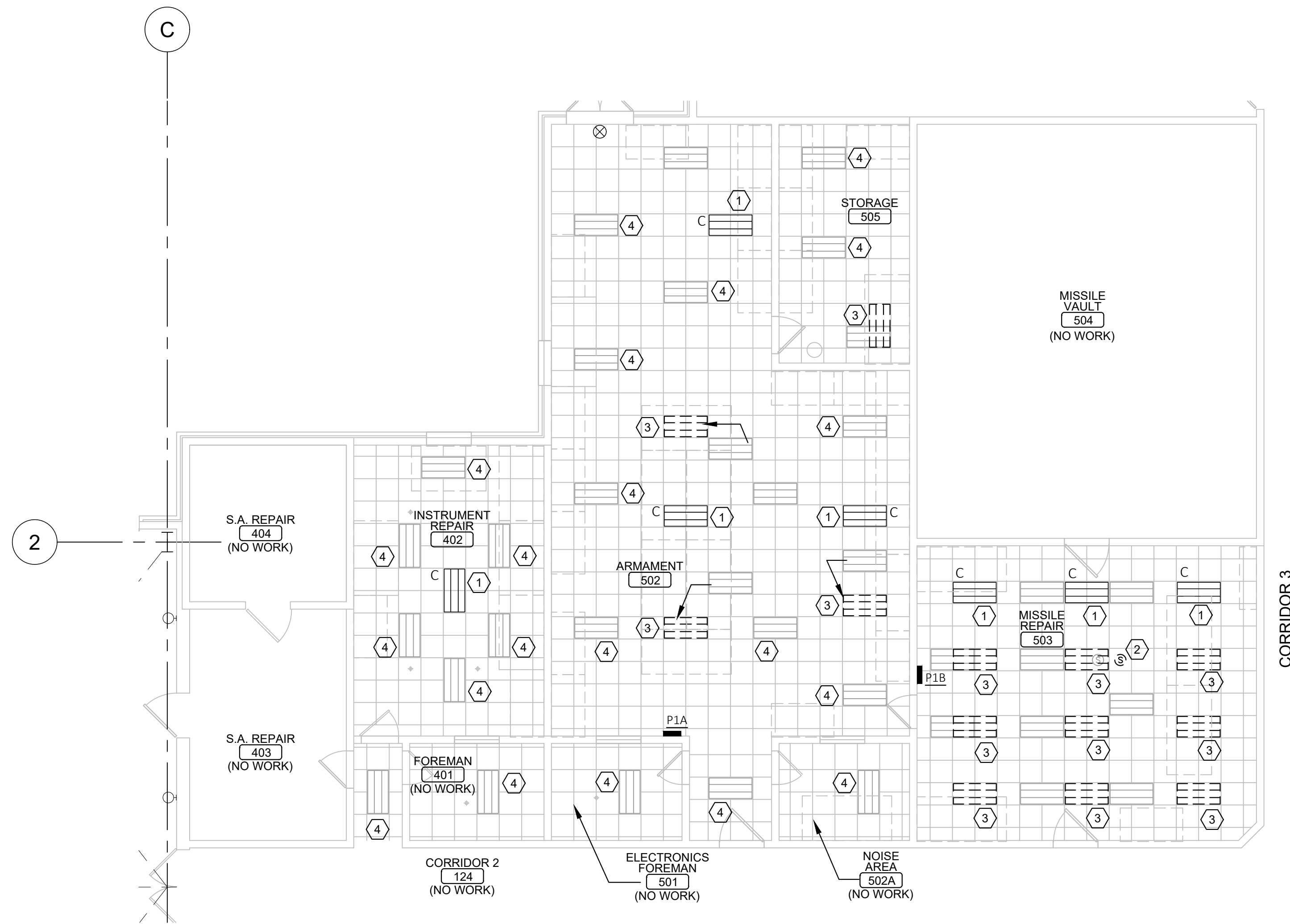
SHEET TITLE:

ELECTRICAL
LIGHTING PLANS

SHEET NUMBER:

E-103

4/20/23
20 OF 22 SHEETS



1
E103 **ELECTRICAL LIGHTING PLAN - ARMAMENT**
SCALE: 1/8" = 1'-0"

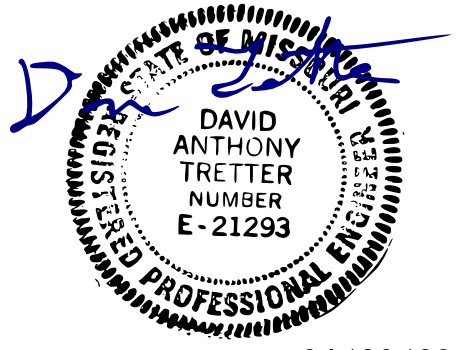


ELECTRICAL LIGHTING GENERAL NOTES:

- A. FOR LIGHT FIXTURE SCHEDULE, SEE SHEET E601.
- B. CONDUIT RUNS SHALL BE INSTALLED PER STATE AND LOCAL CODES.
- C. ALL MATERIALS SHALL BE NEW, WITH "UL" APPROVED LABELS.
- D. ALL FIXTURES, WIRE SHALL BE U.L. APPROVED TYPE.
- E. ALL BRANCH LIGHTING AND POWER CIRCUITS IN EXCESS OF 100 FT FROM PANEL SHALL BE #10 AWG.
- F. NEW LIGHTING SHALL BE RECONNECTED TO CURRENT LIGHTING CIRCUITS AND CONTROLS, UNO.
- G. ALL LED LIGHTS SHALL HAVE DEDICATED NEUTRAL.
- H. CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION .

ELECTRICAL LIGHTING KEYED NOTES:

- 1. PROVIDE NEW LIGHT FIXTURE AS NOTED AND CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS IN THIS SPACE.
- 2. DISCONNECT, REMOVE, RELOCATE CEILING SPEAKER TO THIS LOCATION AND RECONNECT AS REQUIRED.
- 3. REINSTALL EXISTING LIGHT FIXTURE AT LOCATION SHOWN, SALVAGED DURING DEMOLITION WORK. RECONNECT TO EXISTING LIGHTING CIRCUIT & CONTROLS TIED-UP DURING DEMOLITION WORK.
- 4. EXISTING LIGHT FIXTURE TO REMAIN IN-PLACE AND CONNECTED.



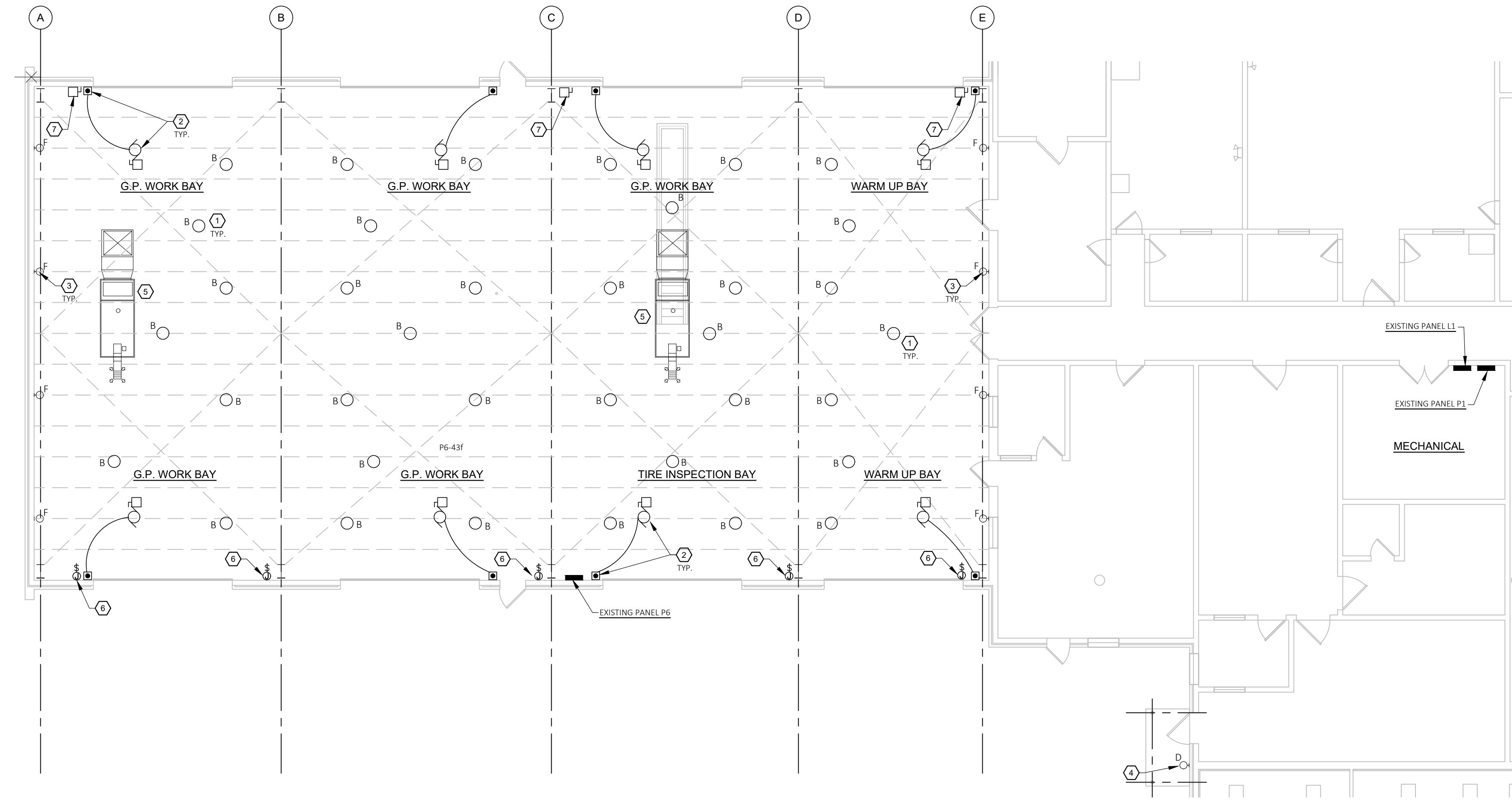
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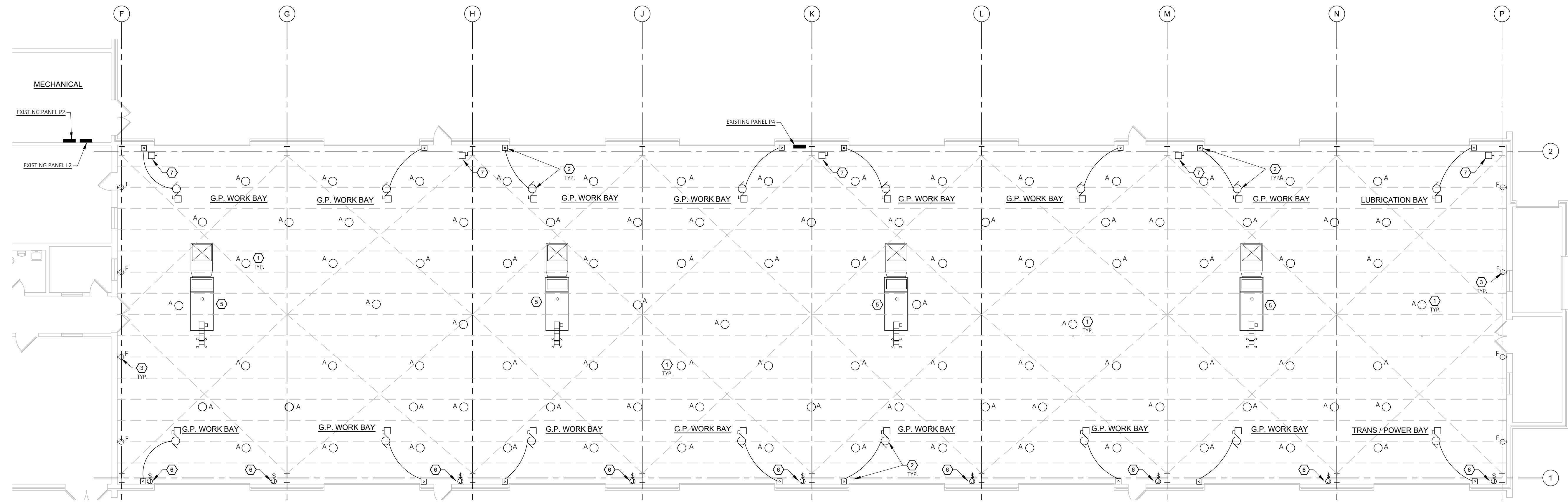
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- ELECTRICAL GENERAL NOTES:**
- A. FOR LIGHT FIXTURE SCHEDULE, SEE SHEET E601.
 - B. LIGHT FIXTURE LOCATIONS SHOWN ARE ONE FOR ONE REPLACEMENT. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH OTHER TRADES AND THE OWNER'S AUTHORIZED REPRESENTATIVE.
 - C. CONDUIT RUNS SHALL BE INSTALLED PER STATE AND LOCAL CODES.
 - D. ALL MATERIALS SHALL BE NEW, WITH "UL" APPROVED LABELS.
 - E. DEVICE LOCATIONS SHOWN ON THE PLAN SHALL BE PLACED EXACTLY AS SHOWN. REFER ANY QUESTIONS TO THE OWNER'S REPRESENTATIVE.
 - F. ALL FIXTURES, WIRE, AND ELECTRIC DEVICES SHALL BE U.L. APPROVED TYPE.
 - G. ALL BRANCH LIGHTING AND POWER CIRCUITS IN EXCESS OF 100 FT FROM PANEL SHALL BE #10 AWG.
 - H. NEW LIGHTING SHALL BE RECONNECTED TO CURRENT LIGHTING CIRCUITS AND CONTROLS, UNO.
 - I. ALL LED LIGHTS SHALL HAVE DEDICATED NEUTRAL.
 - J. CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION.
- # ELECTRICAL KEYED NOTES:**
- 1. NEW HIGHBAY LIGHT FIXTURES: MOUNT NEW HIGHBAY LIGHT FIXTURES AT 26-FT AFF, UNO. CONNECT TO EXISTING LIGHTING CIRCUIT TIED-UP DURING DEMOLITION WORK AND CONNECT TO EXISTING LIGHTING CONTROLS.
 - 2. NEW OVERHEAD DOOR (ALTERNATE #2): AFTER NEW OVERHEAD DOOR MOTORIZED OPERATOR AND WALL CONTROLLER IS IN-PLACE, EXTEND EXISTING CIRCUIT TIED-UP DURING DEMO WORK AND CONNECT SALVAGED DISCONNECT TO NEW MOTORIZED OPERATOR AND CONNECT AS REQUIRED. VERIFY EXISTING DISCONNECT SWITCH IS COMPATIBLE WITH NEW DOOR MOTOR.
 - 3. NEW WALL LIGHT FIXTURES: MOUNT NEW WALL LIGHT FIXTURES IN SAME LOCATION AND MOUNTING HEIGHT AS PREVIOUS LIGHT FIXTURES. CONNECT TO EXISTING LIGHTING CIRCUIT TIED-UP DURING DEMOLITION WORK AND CONNECT TO EXISTING LIGHTING CONTROLS.
 - 4. EXTERIOR WALL FIXTURE: INSTALL WALL LIGHT FIXTURE WITH INTEGRAL PHOTOCCELL AND CONNECT TO LOCAL EXISTING 20A-1P UNSWITCHED RECEPTACLE CIRCUIT FROM EXISTING PANEL P1.
 - 5. EXISTING HVAC EQUIPMENT TO REMAIN.
 - 6. RADIANT HEATER (ALTERNATE #1): PROVIDE HP RATED 20A-120V TOGGLE TYPE DISCONNECT SWITCH FOR RADIANT HEATER AND CONNECT TO EXISTING CIRCUIT.
 - 7. VACUUM BLOWER (ALTERNATE #1): PROVIDE 30A-2P NON-FUSED DISCONNECT SWITCH FOR RADIANT HEATER VACUUM BLOWER AND CONNECT TO EXISTING CIRCUIT.



1 ELECTRICAL PLAN - NORTH BAY
SCALE: 3/32" = 1'-0"
NORTH



2 ELECTRICAL PLAN - SOUTH BAY
SCALE: 3/32" = 1'-0"
NORTH

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SHEET TITLE:
**ELECTRICAL NORTH
- SOUTH WORK
BAYS**

SHEET NUMBER:
E-104
4/20/23
21 OF 22 SHEETS



04/20/23
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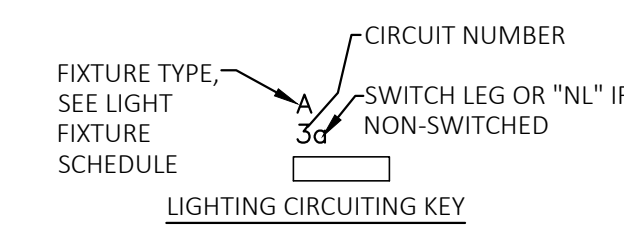
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ABBREVIATIONS (NOTE: NOT ALL ABBREVIATIONS ARE USED)			
AF	ABOVE FINISHED FLOOR	EM	EMERGENCY
AL	ALUMINUM	EWC	ELECTRIC WATER COOLER
AMP	AMPERE	EXISTG	EXISTING
ATS	AUTO-TRANSFER SWITCH	GFCI	GROUND FAULT CURRENT INTERRUPTER
BFG	BELOW FINISHED GRADE	FL	FLOOR
BLDG	BUILDING	FLUOR	FLUORESCENT
CB	CIRCUIT BREAKER	GND OR (G)	GROUND
CKT	CIRCUIT	IG	ISOLATED GROUND
CLG	CEILING	JB	JUNCTION BOX
COND OR "C"	CONDUIT	MCB	MAIN CIRCUIT BREAKER
CONN	CONNECT	MDP	MAIN DISTRIBUTION PANEL
CONT	CONTRACTOR	MLO	MAIN LUG ONLY
CU	COPPER	MTD HT	MOUNTING HEIGHT
C/T	CURRENT TRANSFORMER	NF	NON FUSED
DIM	DIMMER	NIC	NOT IN CONTRACT
DMC	DESTINATION MATERNITY	OFOI	OWNER FURNISH, OWNER INSTALL
DISC SW	DISCONNECT SWITCH	RT	RAIN TIGHT, NEMA 3R
DP	DOUBLE POLE	RTU	ROOF TOP UNIT
DT	DOUBLE THROW	SW	SWITCH
DPP	DISTRIBUTION POWER PANEL	UG	UNDER GROUND
EC	EMPTY CONDUIT	UNO	UNLESS NOTED OTHERWISE
EF	EXHAUST FAN	WP	WEATHER-PROOF
V.I.F.	VERIFY IN FIELD	XFMR	TRANSFORMER

ELECTRICAL SYMBOLS

(NOT ALL SYMBOLS ARE USED)



- 2' X 4' LED LIGHT FIXTURE, RECESSED
- RECESSED DOWNLIGHT
- SINGLE POLE SW-20A-120V/277V-LEVITON CSB1-20 IVORY OR EQ, MOUNT 48" AFF
- SINGLE POLE SW-20A-120V/277V-3-WAY LEVITON CSB3-20 IVORY OR EQ, MOUNT 48" AFF
- SINGLE POLE SWITCH, MOTOR RATED, MOUNT 48" AFF
- SINGLE POLE WALL MOUNTED OCCUPANCY SENSOR, LEVITON OSSMT-GD WITH OVER-RIDE OR APPROVED EQUAL, MOUNT 48" AFF
- CEILING MOUNTED OCCUPANCY SENSOR, 1,000 SF COVERAGE, LEVITON ODC10-MDW
- CEILING MOUNTED OCCUPANCY SENSOR, 1,000 SF COVERAGE, LOW VOLTAGE, LEVITON OSC10-RMW
- POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSOR, LEVITON OSP20-NDO
- DUPLEX RECEPTACLE, LEVITON 5320 IVORY, 18" AFF UNO
- GROUND FAULT RECEPTACLE, LEVITON T-7599 IVORY, 18" AFF UNO
- EQUIP OUTLET, WITH FLEX TO EQUIP, MOUNT 18" AFF UNO, PROVIDE APPROPRIATE RECEPTACLE, GROUNDED
- TELEPHONE OUTLET, 18" AFF UNO
- COMPUTER OUTLET, 18" AFF UNO
- WALL MOUNTED TWIN HEAD BATTERY OPERATED EMERGENCY LIGHT FIXTURE, MOUNT 84" AFF
- BATTERY POWERED EMERGENCY EXIT LIGHT W/EMERGENCY LIGHT HEADS
- ELECTRIC MOTOR
- JUNCTION BOX, SIZE AS REQUIRED
- DISTRIBUTION PANELBOARD
- BRANCH PANELBOARD
- DISCONNECT SWITCH, SIZE AS NOTED
- FA MANUAL PULL STATION, MOUNT 48" AFF
- FA SMOKE DETECTOR
- TV MONITOR
- INTERCOM STATION, MOUNT 48" AFF
- BRANCH CIRCUIT HOMERUN TO PANELBOARD; ALPHA-NUMERIC NOTATION INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER

LIGHTING FIXTURE SCHEDULE (BASIS OF DESIGN)						
TYPE	MANF	CATALOG NO.	LAMP DATA		REMARKS	WATTS
			** NO.	LAMPS		
A	METALUX	BMK-15-WFL-UNV-L840-CD-C6-U	L	1	15423 LUMENS 4000K LED	95W
A	HUBBELL (ALTERNATE)	CRN2-40K-LX-ED-U-FP WITH CR2WA18 REFLECTOR	L	1	14444 LUMENS 4000K LED	101W
A	LITHONIA (ALTERNATE)	JHBL-12000L-ACL-MD-MVOLT-40K-80CRI	L	1	12158 LUMENS 4000K LED	83W
B	METALUX	BMK-18-WFL-UNV-L840-CD-C6-U	L	1	18450 LUMENS 4000K LED	114W
B	HUBBELL (ALTERNATE)	CRN2-40K-MM-ED-U-FP WITH CR2WA18 REFLECTOR	L	1	19860 LUMENS 4000K LED	151W
B	LITHONIA (ALTERNATE)	JHBL-18000L-ACL-MD-MVOLT-40K-80CRI	L	1	18544 LUMENS 4000K LED	131W
C	METALUX	24CZ2-40-S-UNV-L840-CD1-U	L	1	4000 LUMENS 4000K LED	33W
C	HUBBELL (ALTERNATE)	LCAT24-40-LW-G-ED-U	L	1	4465 LUMENS 4000K LED	36W
C	LITHONIA (ALTERNATE)	2BLT4-40L-ADSM-MVOLT-GZ1-LP840	L	1	4000 LUMENS 4000K LED	32W
D	HUBBELL	SG1-20-4K7-FT-UNV-DBT-PCU-EH	L	1	2310 LUMENS 4000K LED	21W
D	LUMARK (ALTERNATE)	XTOR6B-W-BZ-PC1-CBP	L	1	5611 LUMENS 4000K LED	58W
D	WAC LIGHTING (ALTERNATE)	WP-LED-127-30-BZ with PC120-BZ	L	1	2100 LUMENS 3000K LED	27W
F	LITHONIA	TWPX2-LED-ALO-40K-MVOLT-DOBXD	L	1	6600 LUMENS 4000K LED	54W
F	SYLVANIA (ALTERNATE)	WALPAK-1N-050-UNV-7-40-NC-BZ	L	1	5300 LUMENS 4000K LED	50W
F	RAB LIGHTING (ALTERNATE)	WP2-LED-49L-740-U	L	1	4900 LUMENS 4000K LED	33W

** LAMPS L - LED; F - FLUORESCENT; CF - COMPACT FLUORESCENT; MH - METAL HALIDE;

NOTES:
A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND QUANTITY OF FIXTURES.
B. PROVIDE ALL NECESSARY ACCESSORIES, CONNECTORS, HANGERS, END CAPS, ETC FOR A COMPLETE OPERABLE INSTALLATION.
C. ALL LUMINAIRES ARE 277V, UNLESS NOTED OTHERWISE.

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SHEET TITLE:

ELECTRICAL
LEGEND AND
SCHEDULES

SHEET NUMBER:

E-601

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