

SPRINGFIELD AVCRAD - REPLACE BLAST BOOTHS BUILDING CORROSION CONTROL FACILITY SPRINGFIELD, MISSOURI

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR
MISSOURI NATIONAL GUARD

PROJECT
MANAGEMENT: MISSOURI NATIONAL GUARD

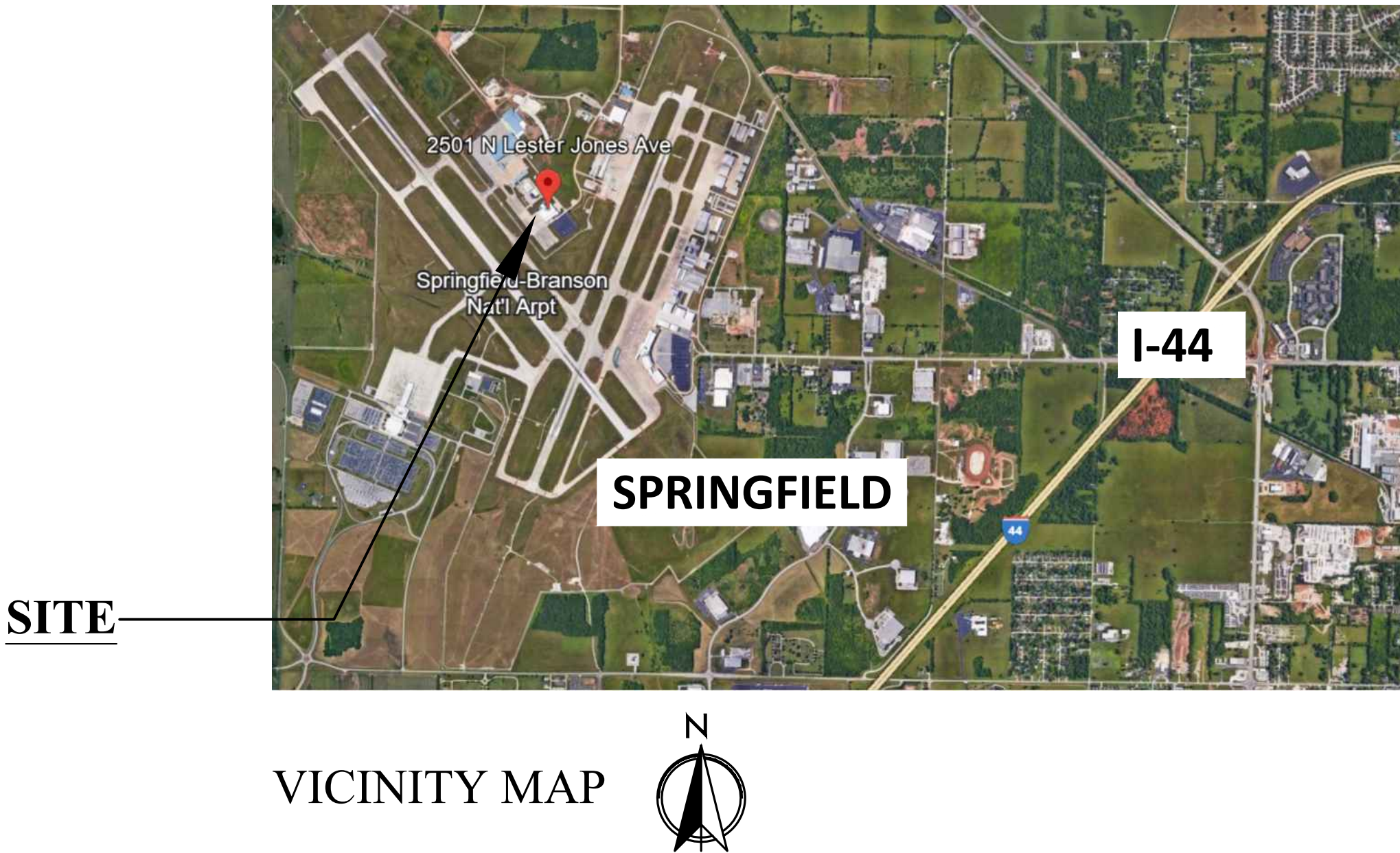
DESIGNER: CASCO DIVERSIFIED

PROJECT NUMBER: T2332-01

SITE NUMBER: 6270
FACILITY NUMBER: 8136270007

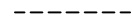
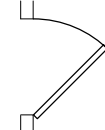
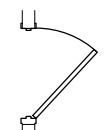
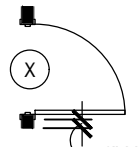
CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100
MISSOURI ARCHITECTURAL CERTIFICATE OF
AUTHORITY #000329 EXP. 12/31/27
MISSOURI ENGINEERING CERTIFICATE OF
AUTHORITY #000613 EXP. 12/31/27

SHEET INDEX:	
G-001	COVER SHEET
G-002	GENERAL NOTES, CODE INFO., MAPS & SYMBOLS
S-101	FOUNDATION PLAN, NOTES, & DETAILS
A-101	EGRESS PLAN & AREAS OF WORK
A-102	BLAST BOOTH DEMOLITION PLANS
A-103	FLOOR PLANS AT BLAST BOOTHS
A-104	FENCE PLANS AND DETAILS
A-301	SECTIONS THROUGH BLAST BOOTHS & DETAILS
M-101	MECHANICAL BLAST BOOTH UPGRADES
M-102	MECHANICAL BLAST BOOTH UPGRADES
E-001	ELECTRICAL NOTES & SCHEDULES
E-101	ELECTRICAL BLAST BOOTH UPGRADES
EQ-001	BLAST BOOTH EQUIPMENT
EQ-002	BLAST BOOTH EQUIPMENT
EQ-003	BLAST BOOTH EQUIPMENT



SHEET NUMBER:
G-001
1 OF 15 SHEETS
06/15/2026

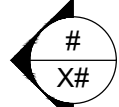
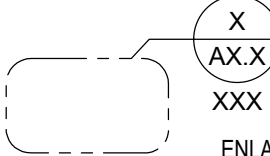
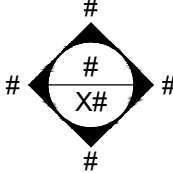
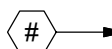
ABBREVIATIONS		
AFF AC AC ALT AL ALUM AB ARCH BSMT BRG BM BEL BLK BLKG BD BW BOT	ABOVE FINISHED FLOOR ACOUSTICAL AIR CONDITIONING ALTERNATE ALUMINUM ANCHOR BOLT ARCHITECT (URAL) BASEMENT BEARING BENCH MARK BELOW BLOCK BLOCKING BOARD BOTH WAYS BOTTOM	KIT KITCHEN LH LEFT HAND LF LINEAL FOOT LTL LENGTH L LINTEL LL LIVE LOAD MACH MACHINE MH MANHOLE MFR MANUFACTURER MAS MASONRY MO MASONRY OPENING MAX MAXIMUM MECH MECHANIC(AL) MED MEDIUM MET METAL MTL METAL M METER(S) MWK MILLWORK MIN MINIMUM MISC MISCELLANEOUS MT MOUNT(ED), (ING) NOM NOMINAL N NORTH NIC NOT IN CONTRACT NTS NOT TO SCALE OC ON CENTER(S) OPG OPENING OPH OPPOSITE HAND OD OUTSIDE DIAMETER OO OUT TO OUT OA OVERALL OH OVERHEAD PC PIECE PNT PAINT(ED) PTD PAINT(ED) PKG PARKING
BOF BRK BLDG CLG CL CC CLR COL CONC CMU CONST CONTR CONTR CFL CISK CRS CF CY DL DEMO DTL DIAG DIAM DIM DR DS D DWG DF E ELEC EWC EL ELEV ELEV EMER EQ EXG EXIST EXP EXT FOF FO FOM FOS FIN FFE FFL FE FEC FT FLG FLR FD FTG FDN FNDN FUR GA GALV GC GL GP GYP GWB HTG HVAC	BOTTOM OF FOOTING BRICK BUILDING CEILING CENTER LINE CENTER TO CENTER CLEAR COLUMN CONCRETE CONCRETE MASONRY UNIT CONSTRUCTION CONTRACTOR CONTINUOUS COUNTER COUNTER FLASHING COUNTERSUNK COURSE(S) CUBIC FOOT CUBIC YARD DEAD LOAD DEMOLISH, DEMOLITION DETAIL DIAGONAL DIAMETER DIMENSION DOOR DOWN SPOUT DRAIN DRAWING DRINKING FOUNTAIN EAST ELECTRIC(AL) ELECTRIC WATER COOLER ELEVATION ELEVATION ELEVATOR EMERGENCY EQUAL EXISTING EXISTING EXPOSED EXTERIOR FACE OF FINISH FACE OF FACE OF MASONRY FACE OF STUDS FINISHED(ED) FINISHED FLOOR ELEV. FINISHED FLOOR LINE FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE TREATED FLASHING FLOOR FLOOR DRAIN FOOTING FOUNDATION FOUNDATION FURRED(ING) GAGE, GAUGE GALVANIZED GENERAL CONTRACT(OR) GLASS, GLAZING GYPSUM GYPSUM GYPSUM WALL BOARD HEATING HEATING/VENTILATION /AIR CONDITIONING HEIGHT HOLLOW CORE HOLLOW METAL HOOK(S) HORIZONTAL HOSE BIBB INSULATE (INSULATION) INTERIOR JOIST JOINT	PL PLYWOOD PND POLYVINYL CHLORIDE PSF POUNDS PER SQUARE FT. PSI POUNDS PER SQUARE IN. PT PRESSURE TREATED PL PROPERTY LINE REM REMOVE RET RETURN RH RIGHT HAND RD ROOF DRAIN RFG ROOFING RM ROOM RO ROUGH OPENING SNT SEALANT SLNT SEALANT SEC SECTION SECT SECTION SHT SHEET SIM SIMILAR SC SOLID CORE S SOUTH SF SQUARE FOOT SI SQUARE INCH SY SQUARE YARD STD STANDARD STO STORAGE SUS SUSPENDED SYM SYMMETRY, (ICAL) TEL TELEPHONE TV TELEVISION THK THICKNESS T&G TONGUE & GROOVE TM TOP OF MASONRY TOM TOP OF MASONRY TS TOP OF STEEL TOS TOP OF STEEL TW TOP OF WALL TOW TOP OF WALL TYP TYPICAL UNO UNLESS OTHERWISE NOTED UNO UNLESS NOTED OTHERWISE VERT VERTICAL VT VINYL TILE WSCOT WAINSCOT WC WATER CLOSET WWF WELED WIRE FABRIC W WEST W WIDTH, WIDE WIN WINDOW WO WITHOUT W/O WITHOUT WD WOOD

MATERIAL KEY			
	NEW CONSTRUCTION		STEEL
	NEW BRICK		CONCRETE
	NEW CMU		
	DEMO CONSTRUCTION		
	EXIST. CONSTRUCTION		
	EXISTING DOOR		
	DEMO DOOR		
	NEW DOOR		
	4" U.N.O		

CODE INFORMATION
APPLICABLE CODES: 2024 INTERNATIONAL BUILDING CODE (IBC) 2024 INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2024 NATIONAL ELECTRICAL CODE (NEC) 2024 INTERNATIONAL MECHANICAL CODE (IMC) 2024 INTERNATIONAL PLUMBING CODE (IPC) 2024 INTERNATIONAL FUEL GAS CODE 2023 NATIONAL ELECTRICAL CODE (NEC) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN OCCUPANCY CLASSIFICATION: USE GROUP TYPES (MIXED OCCUPANCY): - B: BUSINESS (IBC 304) - S-1: STORAGE, MODERATE-HAZARD (IBC 311.2) - S-2: STORAGE, LOW-HAZARD (IBC 311.3) - F-1: FACTORY INDUSTRIAL, MODERATE-HAZARD (IBC 306.2) - F-2: FACTORY INDUSTRIAL, LOW-HAZARD (IBC 306.3) AREA RESTRICTIONS: PER IBC 507 THIS FACILITY IS ALLOWED UNLIMITED AREA AREA MODIFICATIONS: NONE HEIGHT RESTRICTIONS: PER IBC 507 THIS FACILITY WILL BE KEPT TO TWO STORIES HEIGHT MODIFICATIONS: NONE BUILDING CONSTRUCTION TYPE: II-B (NON-COMBUSTIBLE, UNPROTECTED)

CONSTRUCTION NOTES
1. ALL BLAST BOOTH RECOVERY & FINISH EQUIPMENT TO BE FURNISHED FROM AIRBLAST AFC. AIRBLAST AFC IS DENOTED AS BLAST BOOTH MANUFACTURER AND EQUIPMENT MANUFACTURER IN THESE DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR PURCHASING AND INSTALLATION OF EQUIPMENT RELATED TO THE BLAST BOOTHS. FURNISHED, WITHIN CONFINES OF THESE DOCUMENTS, IN RELATION TO BLAST BOOTH EQUIPMENT MEANS CONTRACTOR SHALL PROCURE EQUIPMENT FROM AIRBLAST AFC. CONTRACTOR SHALL CONTRACT WITH EQUIPMENT MANUFACTURER TO HAVE A REPRESENTATIVE ON SITE TO OVERSEE THE WORK COMPLETED TO VERIFY QUALITY OF WORK, AND TRAIN STAFF. CONTACT: JENNIFER HOLLIS (208) 740-3999 jennifer@afc-ca.com 2. 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. 3. 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. 4. 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. 5. 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. 6. THE CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM THE JOBSITE ON A REGULAR BASIS, AS IDENTIFIED IN THE SPECIFICATIONS. KEEP DEBRIS CONTAINED TO THE LIMITS OF CONSTRUCTION. 7. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION. 8. 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. 9. SHOULD THE CONTRACTOR OBSERVE ANY DETERIORATED MATERIALS OR DAMAGED STRUCTURAL CONDITIONS, THE ARCHITECT AND OWNER SHALL BE NOTIFIED. 10. ANY EQUIPMENT NOT IDENTIFIED TO BE REMOVED IS TO REMAIN UNLESS NOTED OTHERWISE. 11. THE CONTRACT WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, TOOLS, LABOR & SERVICES NECESSARY FOR COMPLETION OF THE PROJECT. 12. 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. 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY OF ALL REFURBISHED MATERIALS. ALL REFURBISHED MATERIALS TO APPEAR NEW. 14. 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. 15. SHOULD ANY OF THE DETAILED INSTRUCTIONS ON THE DRAWINGS CONFLICT WITH THE NOTES OR SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL APPLY. 16. 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. 17. THE CONTRACTOR IS TO PROVIDE SUPERVISION OF ALL TRADES / SUBS, AS WELL AS ON-SITE SUPERVISION DURING ALL CONSTRUCTION. 18. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL DUMPSTERS REQUIRED FOR EXECUTION OF THE PROJECT SCOPE INCLUDING DISPOSAL OF ALL NON-REUSED FIXTURES. 19. 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.

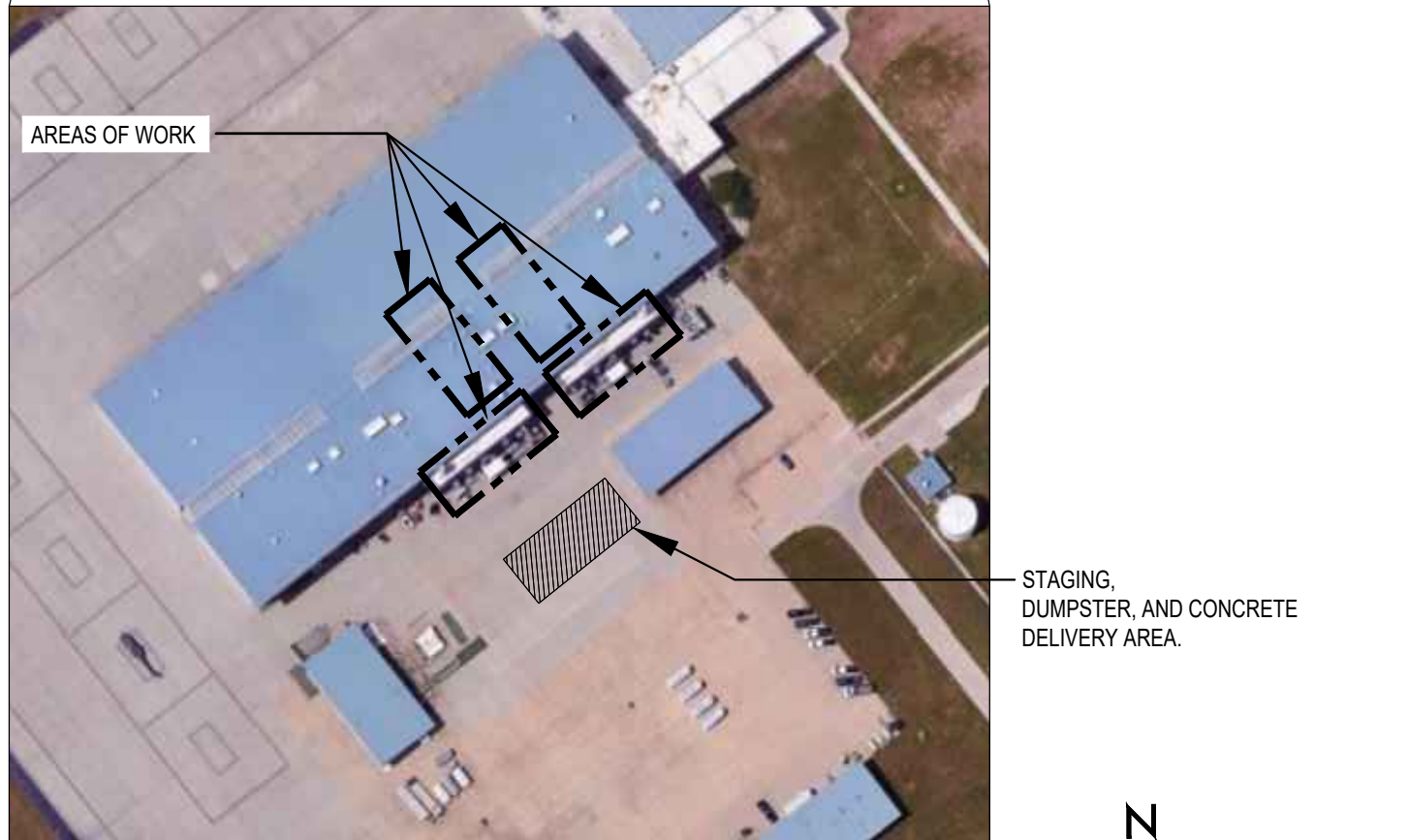
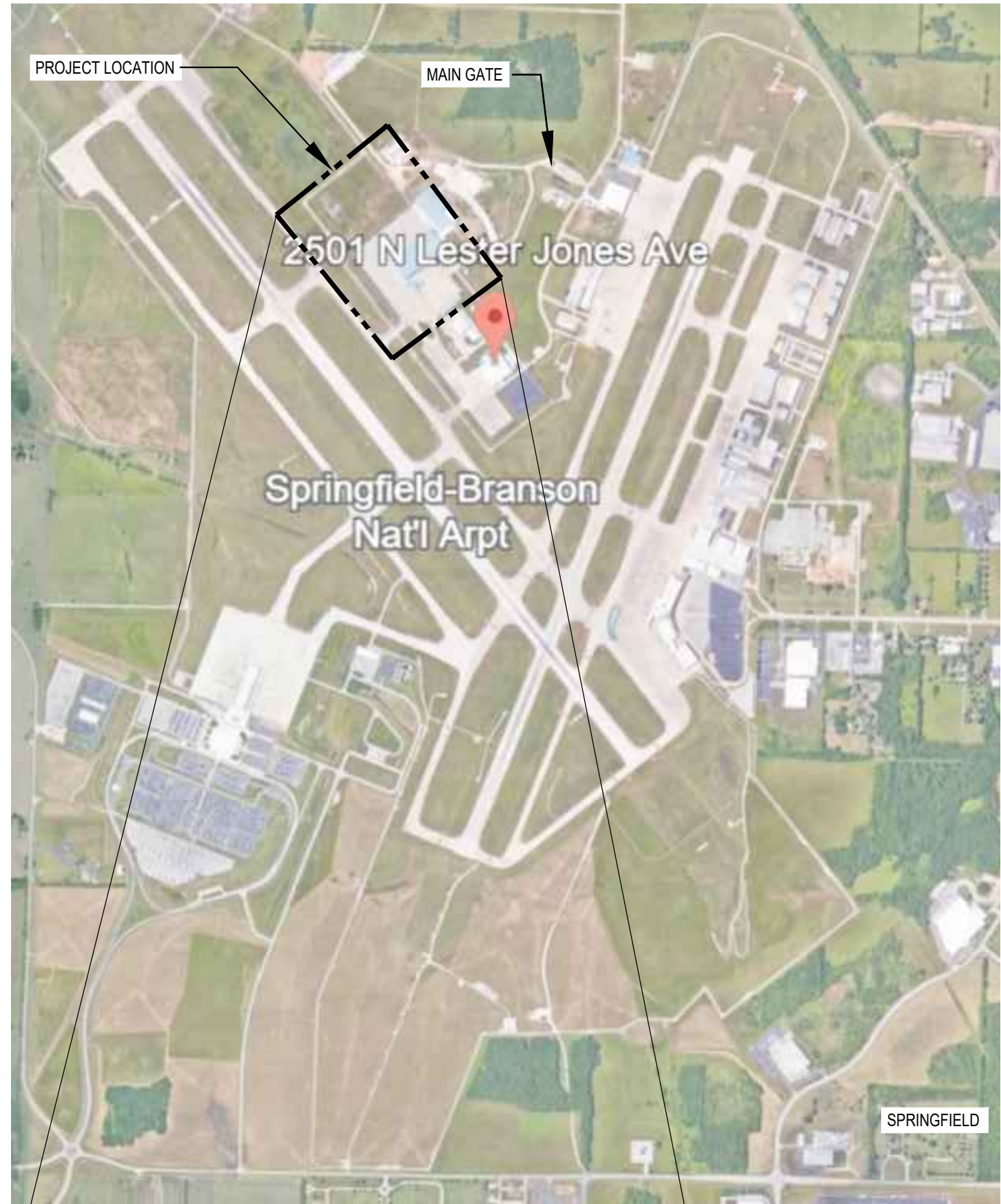
SYMBOL LEGEND

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

RESPONSIBILITY MATRIX				
SCOPE ITEM	EQUIPMENT PROVIDED BY	INSTALLATION / LABOR BY	ELECTRICAL CONNECTIONS / HOOKUP BY	NOTES / REFERENCE STANDARDS
BLAST BOOTH EQUIPMENT (AIRFLEX FLOOR, MEDIA HOPPERS, ELEVATORS, SIEVE, DEIONIZER)	AFC (SOLE SOURCE), PROCURED BY GC	AFC (SOLE SOURCE), PROCURED BY GC	GC (OR OPTIONAL AFC)	GC TO COORDINATE DELIVERY, STRUCTURAL FITMENT, AND UTILITIES WITH AFC TECHNICAL REPRESENTATIVES.
EQUIPMENT DEMOLITION (EXISTING PNEUMATIC FLOORS, BLASTING POTS, AND OLD EQUIPMENT)	N/A	GC (OR OPTIONAL AFC)	GC (SAFE-OFF / DISCONNECT)	EXISTING EQUIPMENT MUST BE SAFELY DECOMMISSIONED. GC RETAINS RESPONSIBILITY IF AFC OPTION IS NOT UTILIZED.
CONCRETE PIT INFILL & FLOOR SLAB MODIFICATION	GC	GC	N/A	INFILL EXISTING PITS WITH GRANULAR FILL AND POUR NEW FLUSH CONCRETE SLABS TO FIT AFC REQUIREMENTS (COORDINATE WITH AFC)
HIGH-SPEED OVERHEAD DOORS (24'x22')	GC	GC	GC	CONTROLS, FRAME REINFORCEMENT, GASKETING, AND SIDE-MOUNT MOTORS MUST CLEAR THE BLAST BOOTH WORKING ENVIRONMENTS.
CONTROL UPGRADES	GC	GC	GC	INCLUDES AUTOMATION, INTERLOCKING DOORS, AND LOGIC CHANGES TO COORDINATE NEW FLOOR OPERATIONS.
LIGHTING UPGRADES (INTERIOR BOOTH VAPOR-TIGHT FIXTURES)	GC PDF	GC	GC	UPGRADED LIGHTING MUST BE WIRED TO EXISTING BOOTH PANELBOARDS (IF REWIRING NECESSARY)
HVAC UPGRADES & MODIFICATIONS	GC	GC	GC	DUCTWORK REVISIONS, EXHAUST ROUTING, AND SYSTEM INTEGRATIONS FOR THE UPGRADED BOOTHS.
TESTING, ADJUSTING, & BALANCING (TAB)	N/A	GC	N/A	CERTIFIED BALANCING OF BOOTH VENTILATION AND DUST COLLECTION AIRFLOW DYNAMICS.

NOTES:
1. AFC EQUIPMENT PURCHASE AND INSTALLATION: THE PROCUREMENT OF THE BLAST BOOTH EQUIPMENT AND ITS PHYSICAL INSTALLATION BY AFC IS A FIXED, MANDATORY REQUIREMENT THAT MUST BE CARRIED BY THE GENERAL CONTRACTOR. WHILE EQUIPMENT SUPPLY AND INSTALLATION ARE NON-DISCRETIONARY, AFC'S OTHER MODULAR ADD-ON OPTIONS—SPECIFICALLY DEMOLITION AND EQUIPMENT ELECTRICAL CONNECTIONS—ARE COMPLETELY AT THE GC'S DISCRETION. THE GC RETAINS FULL AUTONOMY TO EITHER SELF-PERFORM/SUBCONTRACT THOSE REMAINING SCOPES NATIVELY OR BUY THEM DIRECTLY OUT OF AFC'S MENU OF OPTIONAL SERVICES.
2. PHASING & OPERATIONS CONSTRAINTS: THE MATRIX REFLECTS THAT THE FACILITY MUST MAINTAIN OPERATIONAL CAPABILITIES IN ONE BOOTH WHILE THE OTHER IS UNDERGOING UPGRADES. CONTAINMENT BOUNDARIES (SUCH AS THE DUST WALL SPECIFIED ON SHEET A-101) AND STAGING MUST BE STRICTLY MAINTAINED BY THE GENERAL CONTRACTOR.
3. REGARDLESS OF WHO INSTALLS THE FLOOR SYSTEM, THE GC MUST ENSURE AN AFC FACTORY TECHNICIAN IS PRESENT ON-SITE TO INSPECT FINAL WORK QUALITY, SIGN OFF ON SYSTEM STARTUP, AND CONDUCT PERSONNEL OPERATIONAL TRAINING. THIS ALSO INCLUDES ALTERNATE #2 IF ACCEPTED - MANUFACTURER MUST INSPECT FINAL WORK QUALITY, SIGN OFF ON SYSTEM STARTUP, AND CONDUCT PERSONNEL OPERATIONAL TRAINING.

SCOPE OF WORK
THE SCOPE OF WORK CONSISTS OF MATERIAL UPGRADES TO THE TWO EXISTING BLAST BOOTHS (OVERHEAD, HIGH-SPEED DOORS & CONTROLS, RUBBERIZED WALL MATS, AND NEW LED LIGHTS), UPGRADES TO THE BLAST BOOTH DUST COLLECTION SYSTEM INCLUDING INFILL OF THE EXISTING PITS FOR A NEW SWEEPER SYSTEM, AND ENLARGING THE PIT FOOTPRINT TO ACCEPT THE NEW SWEEPER SUCTION SYSTEM. ALTERNATE 1 - NEW EXTERIOR FENCE AND GATE SURROUNDING EXISTING HOPPER COLLECTION AREAS. ALTERNATE 2 - A NEW EXTERIOR VACUUM SYSTEM WITH FENCE. LOCATION BETWEEN EXISTING HOPPERS.
PHASING
IN ORDER TO CONTINUE OPERATIONS OF BLAST BOOTHS, PHASING IS REQUIRED FOR DEMOLITION AND NEW CONSTRUCTION. BOOTH #2 SHALL BE FIRST. DEMOLITION, NEW CONSTRUCTION COMPLETED, OPERATIONAL AS VERIFIED BY EQUIPMENT MANUFACTURER AND TRAINING COMPLETED, BEFORE STARTING ON THE SECOND BOOTH, BOOTH #1. ALL WORK, DEMO THROUGH OPERATIONAL COMPLETION AND TRAINING AT THE BLAST BOOTHS, SHALL BE COMPLETELY CONTAINED WITHIN A CONTRACTOR-SUPPLIED AND CONSTRUCTED, TEMPORARY, DUST BARRIER. THE DUST BARRIER MUST EXTEND FROM FLOOR TO CEILING/ROOF DECK. NO HEAVY EQUIPMENT IS TO BE BROUGHT INTO THE FACILITY. CONCRETE FOR THE NEW BLAST BOOTH FLOORS SHALL BE DELIVERED TO THE BACK OF THE BUILDING WITH A PUMP TRUCK. ROCK FILL MUST BE BROUGHT IN AND INSTALLED USING NATIONAL GUARD APPROVED MEANS.

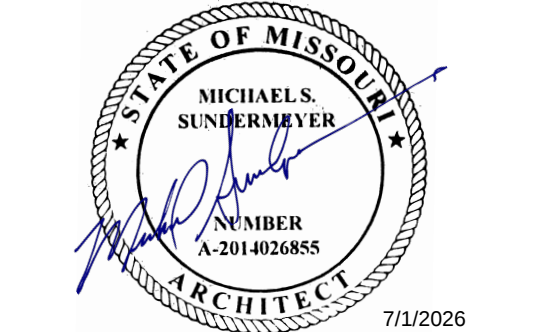


1
G-002

SITE LOCATION MAP

SCALE: NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



MICHAEL S. SUNDERMEYER
License Number: 2014026855
Expiration Date: 12/31/26
CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL L.I.C. #000329 12/31/27
ENGINEERING L.I.C. #000613 12/31/27

CASCO MEI

12 Sonnen Drive, Suite 100, St. Louis, MO 63143 T-314.821.1100

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 6/15/2026

CAD DWG FILE: _____
DRAWN BY: MIM _____
CHECKED BY: RAR _____
DESIGNED BY: CASCO DIVERSIFIED

SHEET TITLE:
GENERAL NOTES,
CODE INFO., MAPS,
& SYMBOLS

SHEET NUMBER:

G-002

CONCRETE NOTES

CONCRETE MIXTURES SHALL STRICTLY COMPLY WITH SECTION 4 OF ACI 301-20 AND CHAPTER 19 OF ACI 318-14.

- CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW A MINIMUM OF ONE WEEK PRIOR TO THE CONCRETE PLACEMENT.
- ALL CONCRETE SHALL BE NORMAL-WEIGHT (DENSITY=145 PCF).
- THE COARSE AGGREGATE GRADATION SHALL BE #57 OR LARGER UNLESS RESTRICTED BY ACI 301-20.
- EXPOSURE CATEGORY - F (FREEZING AND THAWING):
INTERIOR FLOOR SLAB F0 (f'c = 3,000 PSI)
- FORMWORK AND FORMWORK ACCESSORIES SHALL STRICTLY COMPLY WITH SECTION 2 OF ACI 301-20.
- REINFORCEMENT AND REINFORCEMENT SUPPORTS SHALL STRICTLY COMPLY WITH SECTION 3 OF ACI 301-20.
- HANDLING, PLACING, AND CONSTRUCTING SHALL STRICTLY COMPLY WITH SECTION 5 OF ACI 301-20.
- CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- CONCRETE REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- 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:
#6 BARS AND LARGER.....2 IN.
#5 BARS AND SMALLER.....1 1/2 IN.
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
BEAMS, GIRDERS, AND COLUMNS.....1 1/2 IN.
SLABS, WALLS, AND JOISTS:
#11 BARS AND SMALLER.....3/4 IN.
#14 AND #18 BARS.....1 1/2 IN.
- ALL BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., WHICH ARE BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
- ALL LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

CONCRETE REINFORCING LAP SPLICE SCHEDULE					
TENSION SPLICES (IN.)					COMPRESSION SPLICES (IN.)
BAR SIZE	TOP BARS		OTHER BARS		
	A	B	A	B	
#3	22	28	17	22	12
#4	29	37	22	29	15
#5	36	47	28	36	19
#6	43	56	33	43	23
#7	63	81	48	63	27
#8	72	93	55	72	30

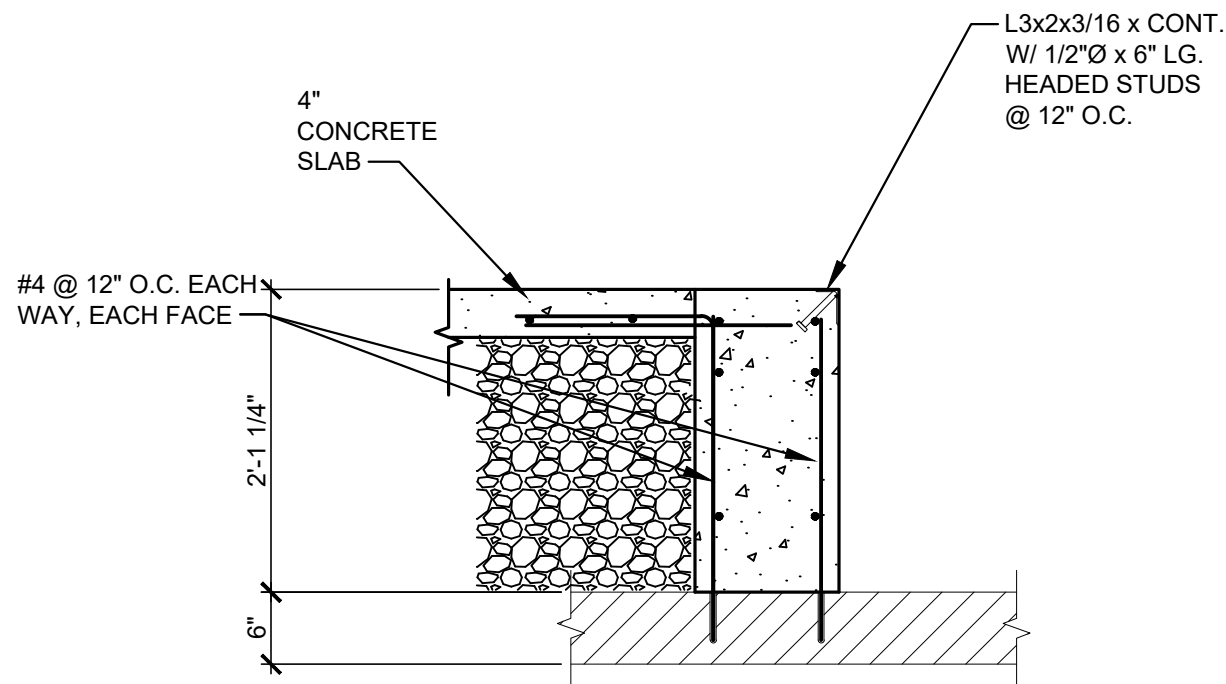
-COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS LAP
-WELDED WIRE FABRIC: ONE SPACING OF CROSS WIRES PLUS 2" LAP

ADHESIVE ANCHOR SYSTEMS:

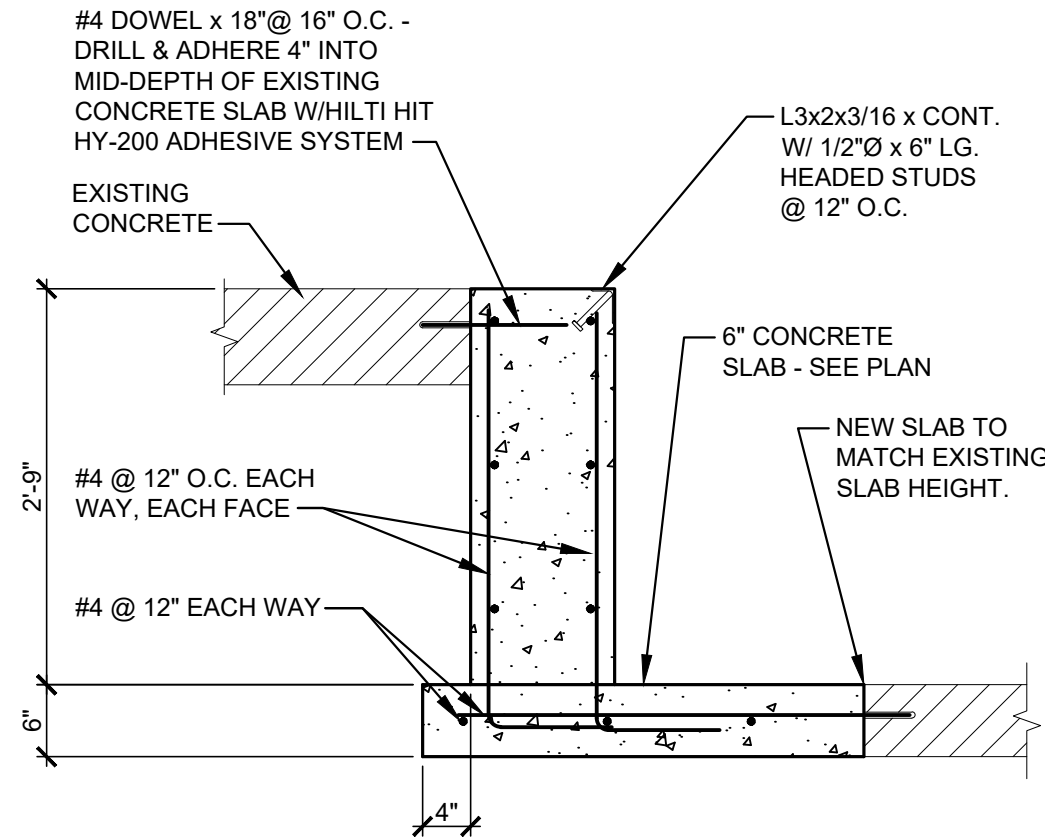
HILTI HAS RODS WITH HIT HY 270 ADHESIVE ANCHORS IS THE BASIS OF DESIGN FOR ANCHORAGE TO CONCRETE MASONRY UNITS (CMU).

THE FOLLOWING ARE APPROVED EQUALS:

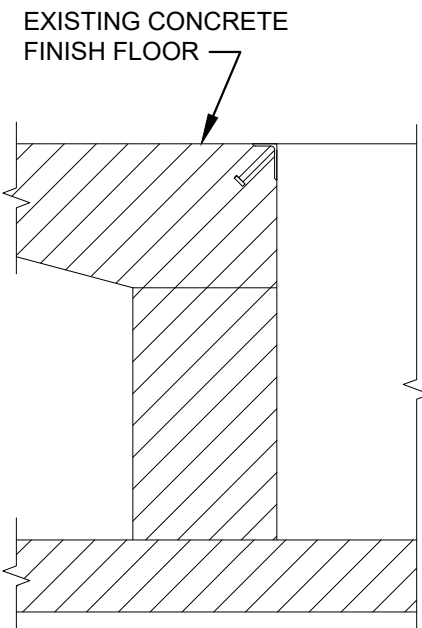
- SIMPSON AT-XP ADHESIVE WITH A36 THREADED ROD - SIZE AS SPECIFIED ON DRAWINGS.
- RED HEAD A6+ ADHESIVE WITH A36 THREADED ROD - SIZE AS SPECIFIED ON DRAWINGS.



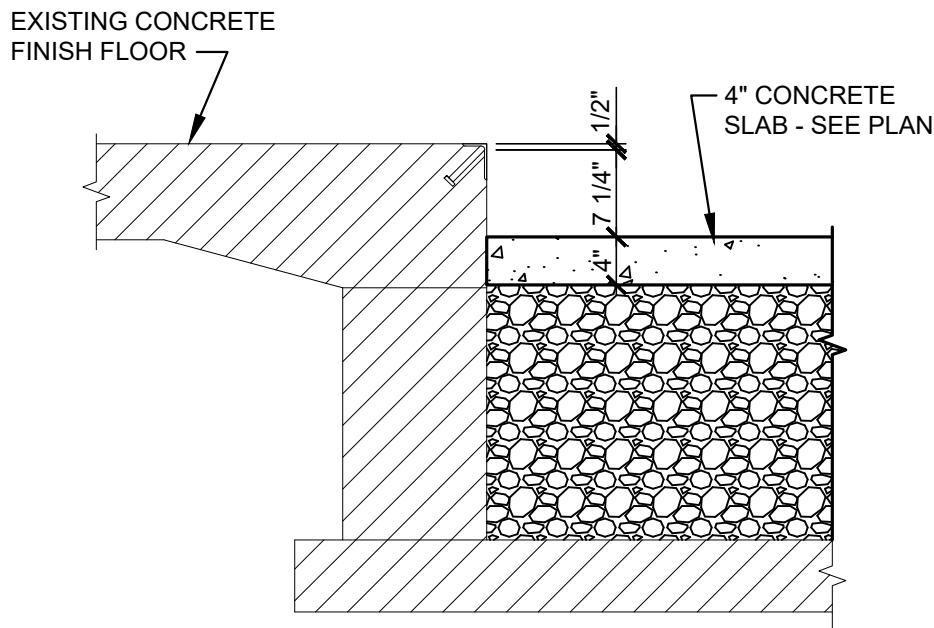
5 SECTION
S101 SCALE: 3/4" = 1'-0"



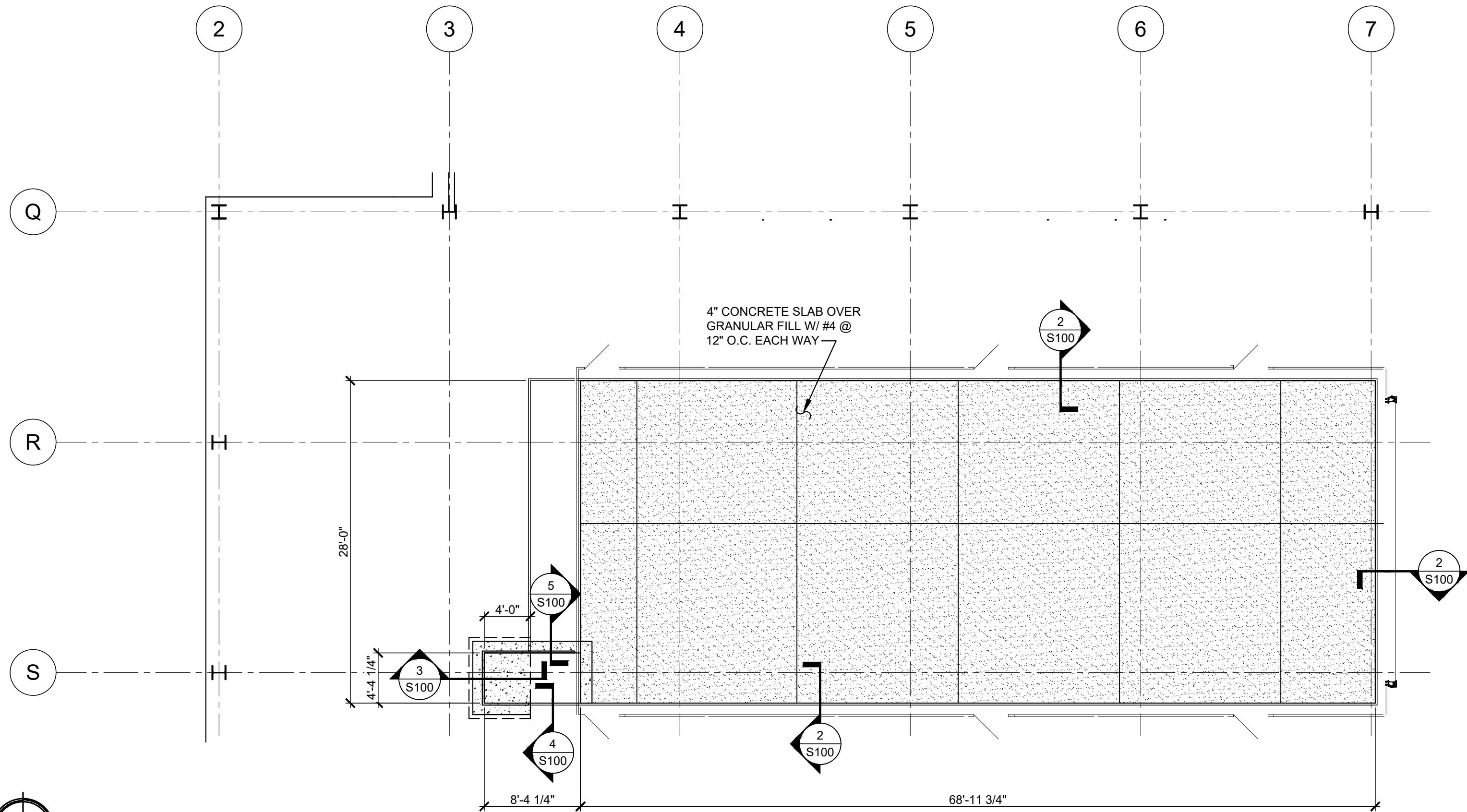
3 SECTION
S101 SCALE: 3/4" = 1'-0"



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



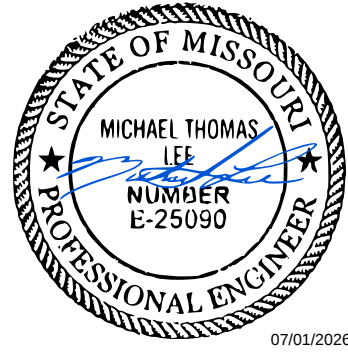
2 SECTION
S101 SCALE: 3/4" = 1'-0"



1 FOUNDATION PLAN
S101 SCALE: 1/8" = 1'-0"

NOTE:
CONCRETE FLOOR FLATNESS CRITERIA - F1 = 25-30 / F1 = 18-20.
ALL FINISHES ARE TO BE SCI HARD TROWEL CRITERIA.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



MICHAEL T. LEE
License Number: 025090
Expiration Date: 12/31/25

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL LLC. #000329 12/31/27
ENGINEERING LLC. #000613 12/31/27

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

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

ISSUE DATE: 6/15/2026

CAD DWG FILE: _____
DRAWN BY: BWT
CHECKED BY: MTL
DESIGNED BY: MTL

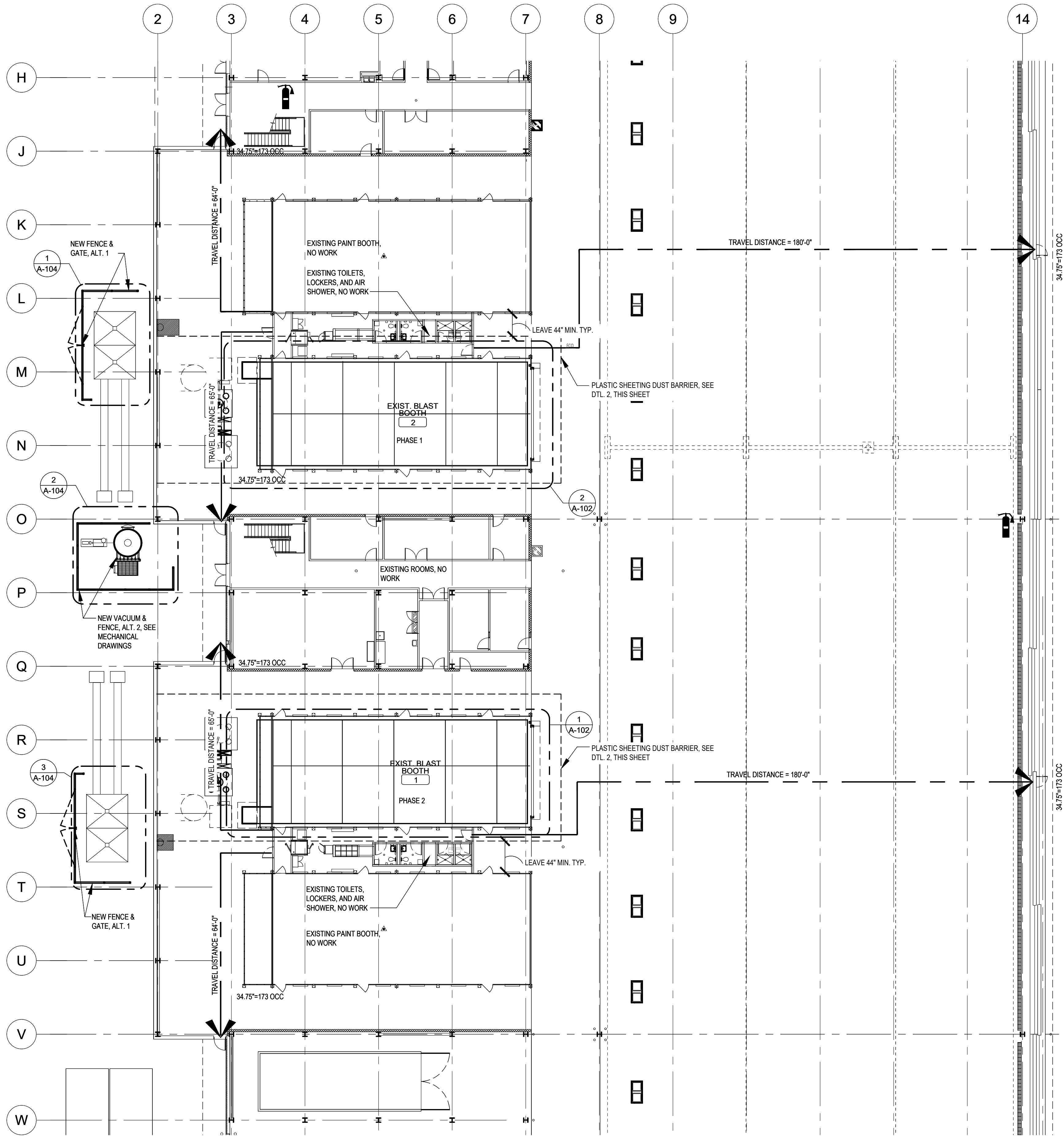
SHEET TITLE:

FOUNDATION PLAN,
NOTES & DETAILS

SHEET NUMBER:

S-101

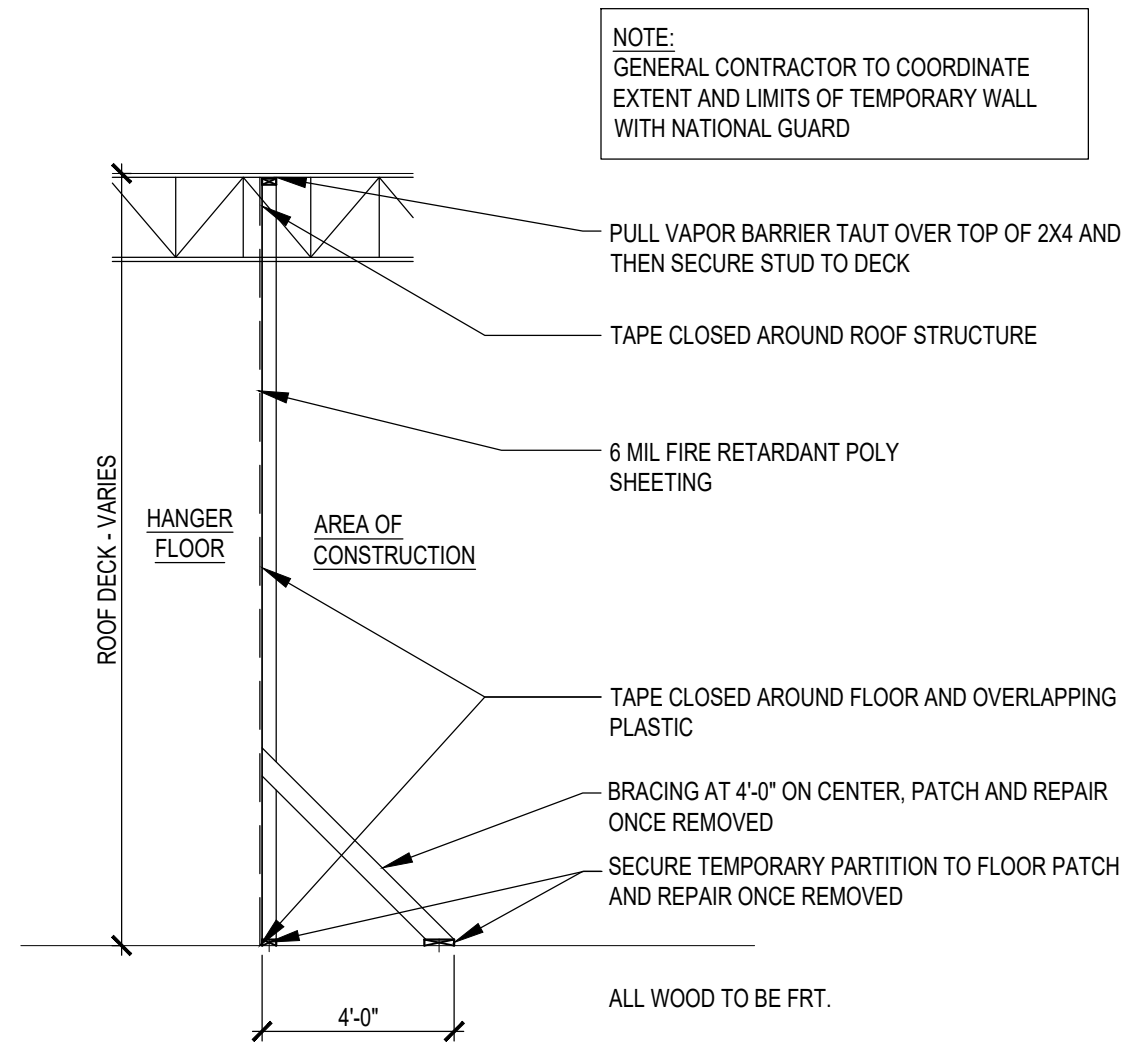
3 OF 15 SHEETS
06/15/2026



1
A-101

OVERALL FLOOR / EGRESS PLAN

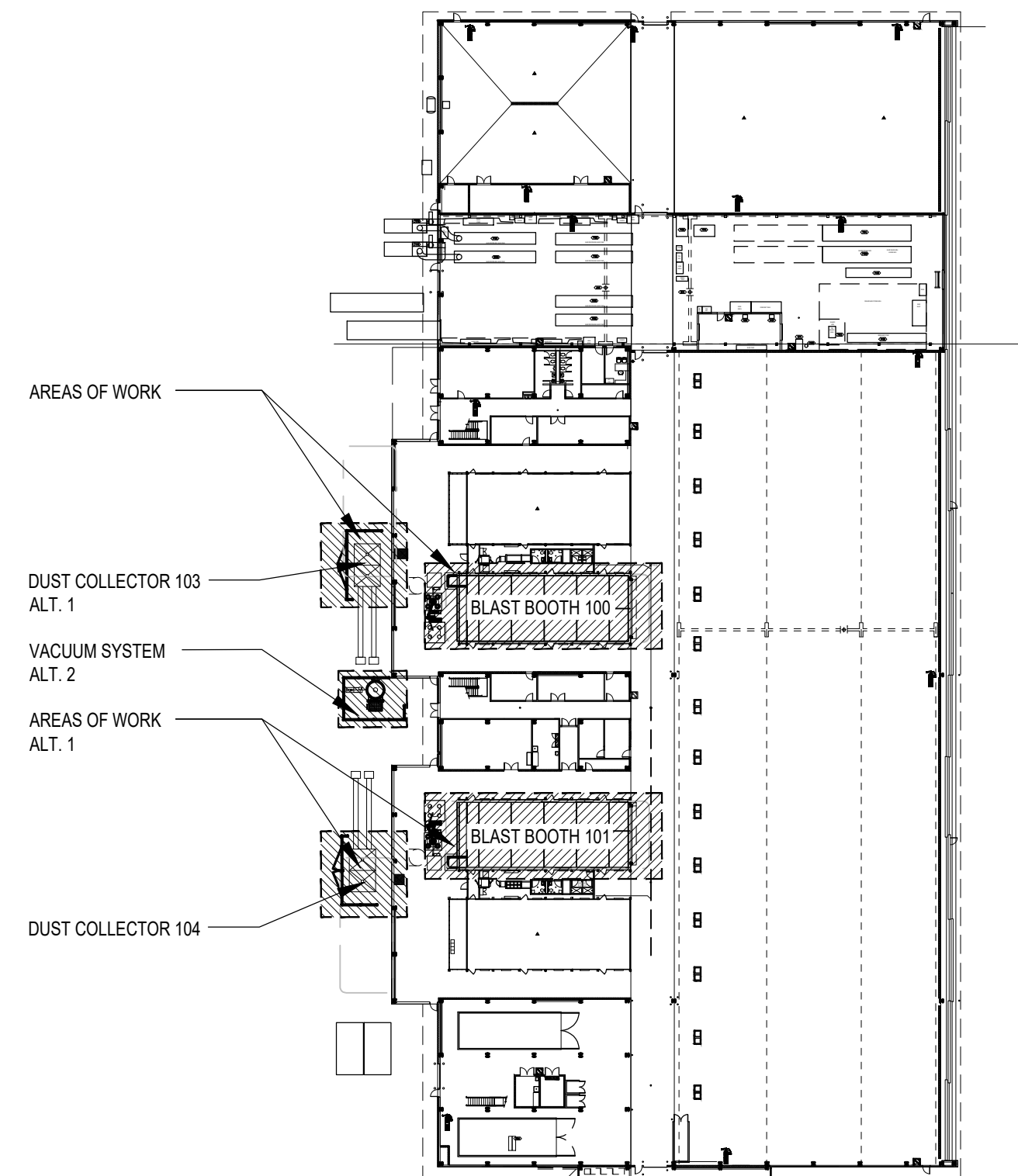
SCALE: 1/4" = 1'-0"



2
A-101

DUST WALL DETAIL

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



KEY PLAN

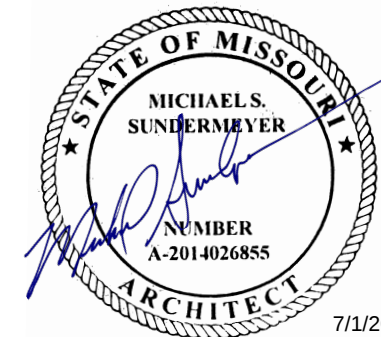
SCALE: N.T.S.



PHASE PLAN NOTES:

1. BLAST BOOTH RENOVATIONS TO BE COMPLETED SEPARATELY STARTING WITH EXISTING BLAST BOOTH 2.
2. AREA OF WORK SHALL BE COVERED DURING DEMOLITION AND CONSTRUCTION AS TO PROTECT ALL LEVELS OF THE SURROUNDING FACILITY FROM CONSTRUCTION DUST AND DEBRIS. USE HEAVY DUTY PLASTIC SHEETING HUNG FROM TEMPORARY CONSTRUCTION TO ENCLOSE THE BLAST BOOTH AND SURROUNDING AREAS OF WORK.
3. CONCRETE FOR SLAB INFILL SHALL BE DELIVERED VIA PUMP TRUCK ONLY. SEE SHEET G-002 FOR STAGING AND CONCRETE DELIVERY AREA. GRAVEL INFILL TO BE INSTALLATION SHALL BE COORDINATED WITH THE NATIONAL GUARD.
4. CONTRACTOR TO ERECT TEMPORARY DUST WALLS TO ENSURE MINIMUM EGRESS WIDTHS FOR EXITING ARE MAINTAINED AT ALL TIMES. (MINIMUM 44" CLEAR TO EXIT DOORS).

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



MICHAEL S. SUNDERMEYER
License Number: 2014026855
Expiration Date: 12/31/26
CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL L.L.C. #000329 12/31/27
ENGINEERING L.L.C. #000613 12/31/27

CASCO MEI

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 6/15/2026

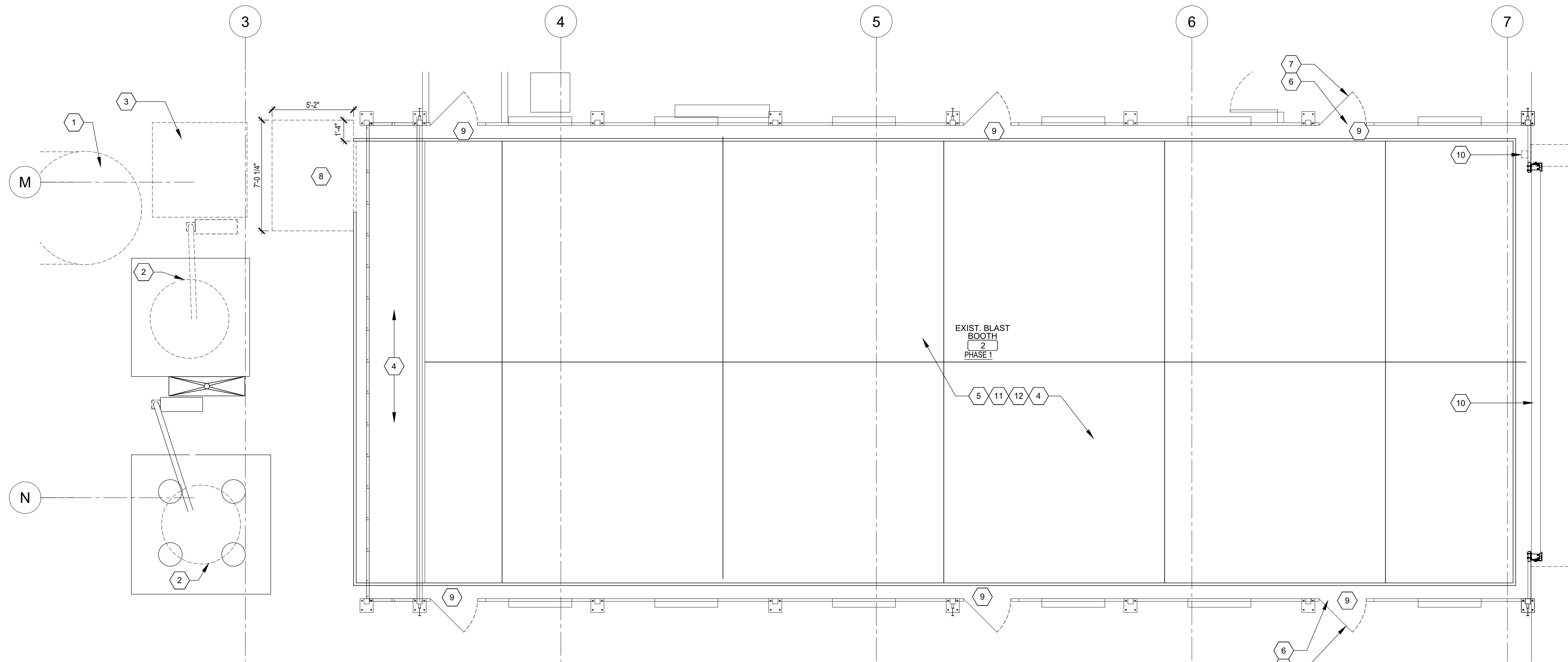
CAD DWG FILE: _____
DRAWN BY: MJM
CHECKED BY: RAR
DESIGNED BY: CASCO DIVERSIFIED

SHEET TITLE:
EGRESS PLAN
& AREAS OF WORK

SHEET NUMBER:

A-101

4 OF 15 SHEETS
06/15/2026



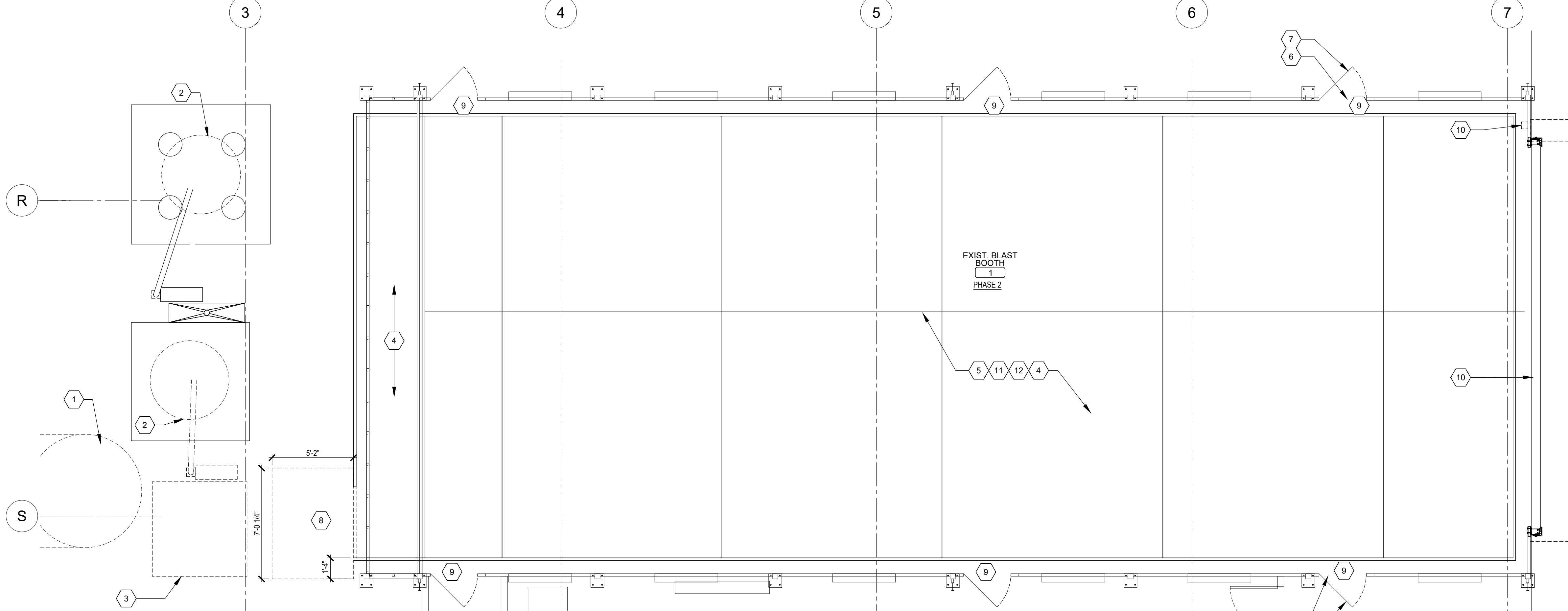
2
A102

DEMO AT BLAST BOOTH 2

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

PHASE 1

TRUE NORTH



1
A102

DEMO AT BLAST BOOTH 1

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

PHASE 2

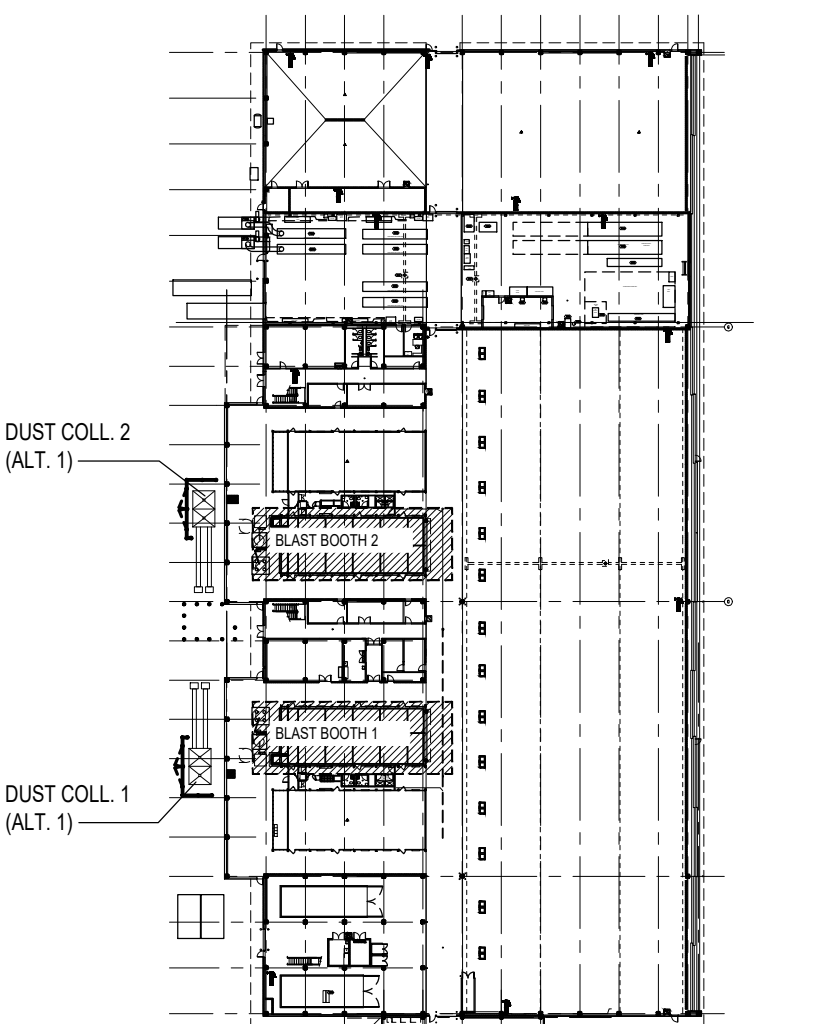
TRUE NORTH

DEMOLITION NOTES:

1. REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. OWNER TO REMOVE AND STORE EXISTING EQUIPMENT WITHIN AREA OF DEMOLITION.
3. ALL EXISTING FINISHES AND SURFACES TO REMAIN IN AREAS OF DEMOLITION AND CONSTRUCTION ARE TO BE PROTECTED FROM DAMAGE WITH CONTRACTOR PROVIDED AND INSTALLED DUST BARRIER. ANY DAMAGE SHALL BE REPAIRED/REPLACED TO LIKE NEW CONDITION AT THE END OF CONSTRUCTION.
4. REMOVE ALL DEMOLITION AND CONSTRUCTION DELETERIOUS MATERIALS UNLESS OTHERWISE NOTED.
5. FLOOR SLAB DEMOLITION FOR NEW SWEEP SYSTEM SHALL BE MADE WITH SAW CUTS IN STRAIGHT PARALLEL LINES. DO NOT OVERCUT AT CORNERS.
6. PRIOR TO THE DISASSEMBLY OR CUTTING OF ANY EXIST. DUCTWORK, PLENUMS, OR OTHER SYSTEMS, THE CONTRACTOR SHALL TEST FOR AND SAFELY MITIGATE ANY CONCENTRATED ACCUMULATIONS OF COMBUSTIBLE OR TOXIC AVIATION BLASTING RESIDUE (E.G., ALUMINUM, TITANIUM, OR CADMIUM DUSTS). DISPOSAL MUST COMPLY WITH ENVIRONMENTAL SAFETY PROTOCOLS.
7. WHERE EXISTING EQUIPMENT IS NOTED TO BE REMOVED AND REINSTALLED, THE CONTRACTOR IS RESPONSIBLE FOR CAREFULLY DISMANTLING, CLEANING, LABELING, AND SECURELY STORING COMPONENTS IN A WEATHER-TIGHT LOCATION TO PREVENT DAMAGE OR MOISTURE INTRUSION. ANY SALVAGED MATERIAL DAMAGED DURING DEMOLITION SHALL BE REPLACED WITH NEW BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. FOLLOWING THE DEMOLITION OF THE EXISTING SWEEPER VACUUM FLOOR FLOOR SLAB, THE CONTRACTOR SHALL INSPECT, COMPACT, AND FIELD-VERIFY THE INTEGRITY OF THE SUB-GRADE PRIOR TO PLACING NEW REBAR AND CONCRETE INFILL. REMOVE ANY SATURATED SOIL, BLASTING MEDIA CONTAMINANTS, OR DEBRIS RESULTING FROM SAW-CUTTING OPERATIONS.
9. CONTRACTOR SHALL SAFELY ISOLATE, LOCK-OUT, AND TAG-OUT ALL INDIVIDUAL POWER FEEDS TO THE BLAST BOOTHS, OVERHEAD DOORS, AND DUST COLLECTORS PRIOR TO ANY DEMOLITION. COORDINATE ALL POWER DISCONNECTIONS AND TEMPORARY OPERATIONAL POWER WITH THE OWNER.
10. THE CONTRACTOR SHALL TRACE AND CAP ALL ABANDONED UTILITIES (AIR PIPING, ELECTRICAL CONDUITS, CONDUIT RUNS) FLUSH WITH THE ADJACENT RE-USED STRUCTURE OR FLOOR SLAB. NO LEFT-OVER 'DEAD' LINES SHALL PROTRUDE INTO THE RECONFIGURED SPACE.
11. DEMOLITION OF THE EXISTING BLAST BOOTH EQUIPMENT MAY BE PERFORMED BY THE CONTRACTOR OR THE SOLE SOURCE VENDOR AT THE CONTRACTOR'S OPTION. IF THE CONTRACTOR ELECTS TO SELF-PERFORM THE DEMOLITION, ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE SOLE SOURCE VENDOR'S REQUIREMENTS AND RECOMMENDATIONS TO FACILITATE INSTALLATION OF THE NEW EQUIPMENT. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.

KEYED NOTES: #

1. REMOVE AND DISPOSE OF EXISTING DUST SEPARATOR, SIEVE AND GATE VALVE. SEE MECH. DWGS. FOR MORE INFORMATION.
2. DEMOLISH EXISTING CYCLONE ON TOP OF DIRTY AND CLEAN MEDIA HOPPERS. SEE MECH. DWGS. FOR MORE INFORMATION.
3. REMOVE & DISPOSE OF VACUUM PUMP.
4. REMOVE AND DISPOSE OF ALL VACUUM PIPES FROM EXISTING BLAST BOOTH COLLECTION SYSTEM.
5. REMOVE AND STORE EXISTING BLAST BOOTH FLOORING. REINSTALL AFTER SWEEPER SYSTEM INSTALLATION.
6. REMOVE EXISTING "ENTER HERE" SIGN ABOVE DOOR.
7. REMOVE PULL HARDWARE AND INFILL EXISTING HOLES, FINISH SMOOTH.
8. SAWCUT EXISTING CONCRETE FLOOR FOR EXTENSION OF NEW SWEEPER VACUUM SYSTEM.
9. REMOVE ALL WEATHER STRIPPING FROM EXISTING BLAST BOOTH DOORS.
10. REMOVE EXISTING OVERHEAD COILING DOOR, HOUSING, STEEL FRAME, SENSORS, AND CONTROLS. CAP WIRING TO CONTROLS FOR NEW DOOR CONTROLS.
11. REMOVE AND PROPERLY DISPOSE OF EXISTING FLUORESCENT LIGHTS IN BLAST BOOTHS. CLEAN EXISTING FIXTURE HOUSINGS PRIOR TO RE-GASKET EACH FIXTURE AND INSTALLATION OF NEW LED FIXTURES.
12. WIPE DOWN INTERIOR WALLS UP TO 6'-6" A.F.F. CLEAN ALL DEBRIS FROM PIT TO PREPARE FOR NEW CONCRETE INFILL. COORDINATE WITH GUARD FOR PROPER MEDIA CLEANING.

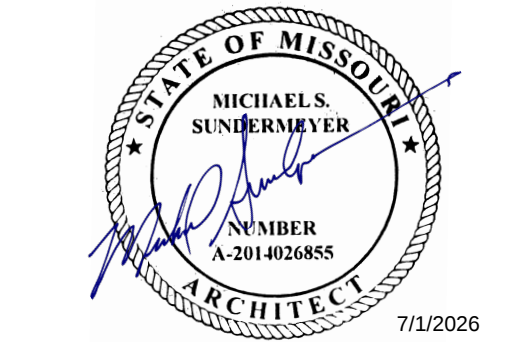


KEY PLAN

SCALE: N.T.S.

TRUE NORTH

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



MICHAEL S. SUNDERMEYER
License Number: 2014026855
Expiration Date: 12/31/26
CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL LLC. #000329 12/31/27
ENGINEERING LLC. #000613 12/31/27

CASCO MEI

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 6/15/2026

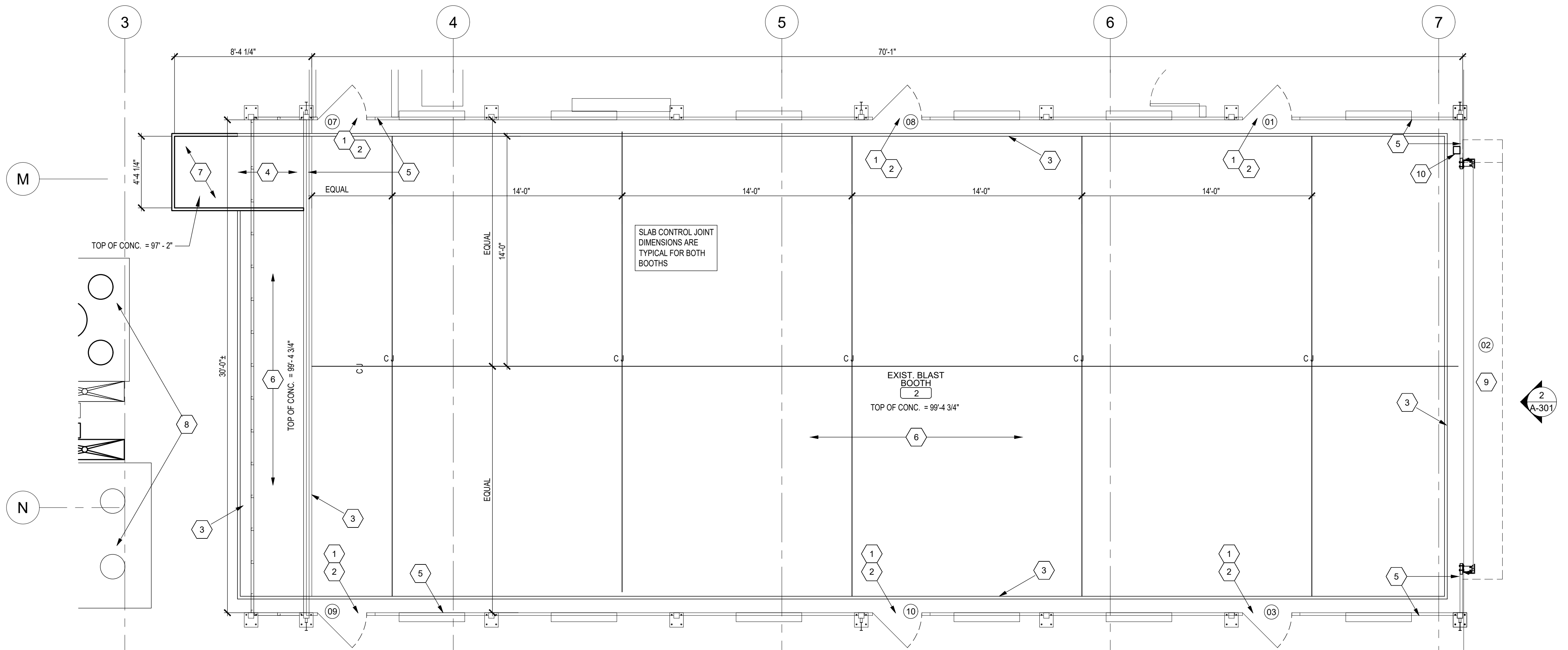
CAD DWG FILE: _____
DRAWN BY: MJM
CHECKED BY: RAR
DESIGNED BY: CASCO DIVERSIFIED

SHEET TITLE:
**BLAST BOOTH
DEMOLITION PLANS**

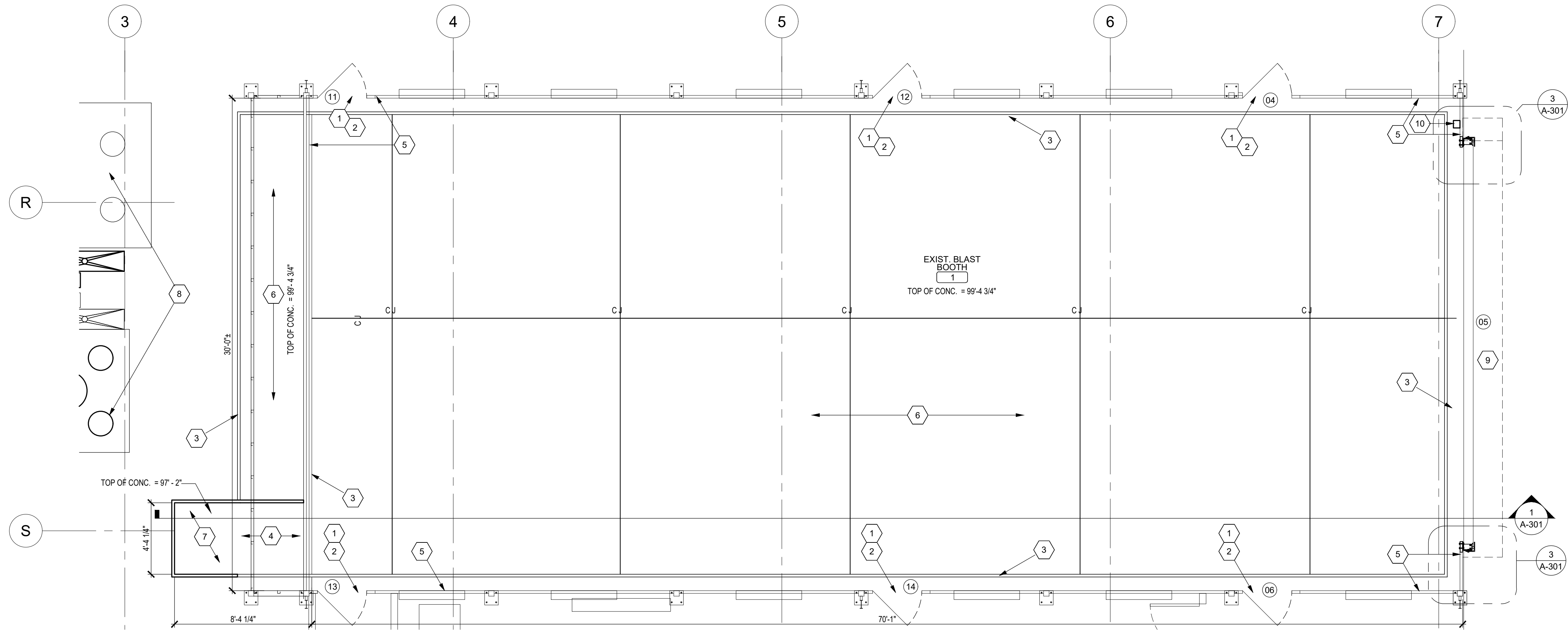
SHEET NUMBER:

A-102

5 OF 15 SHEETS
06/15/2026



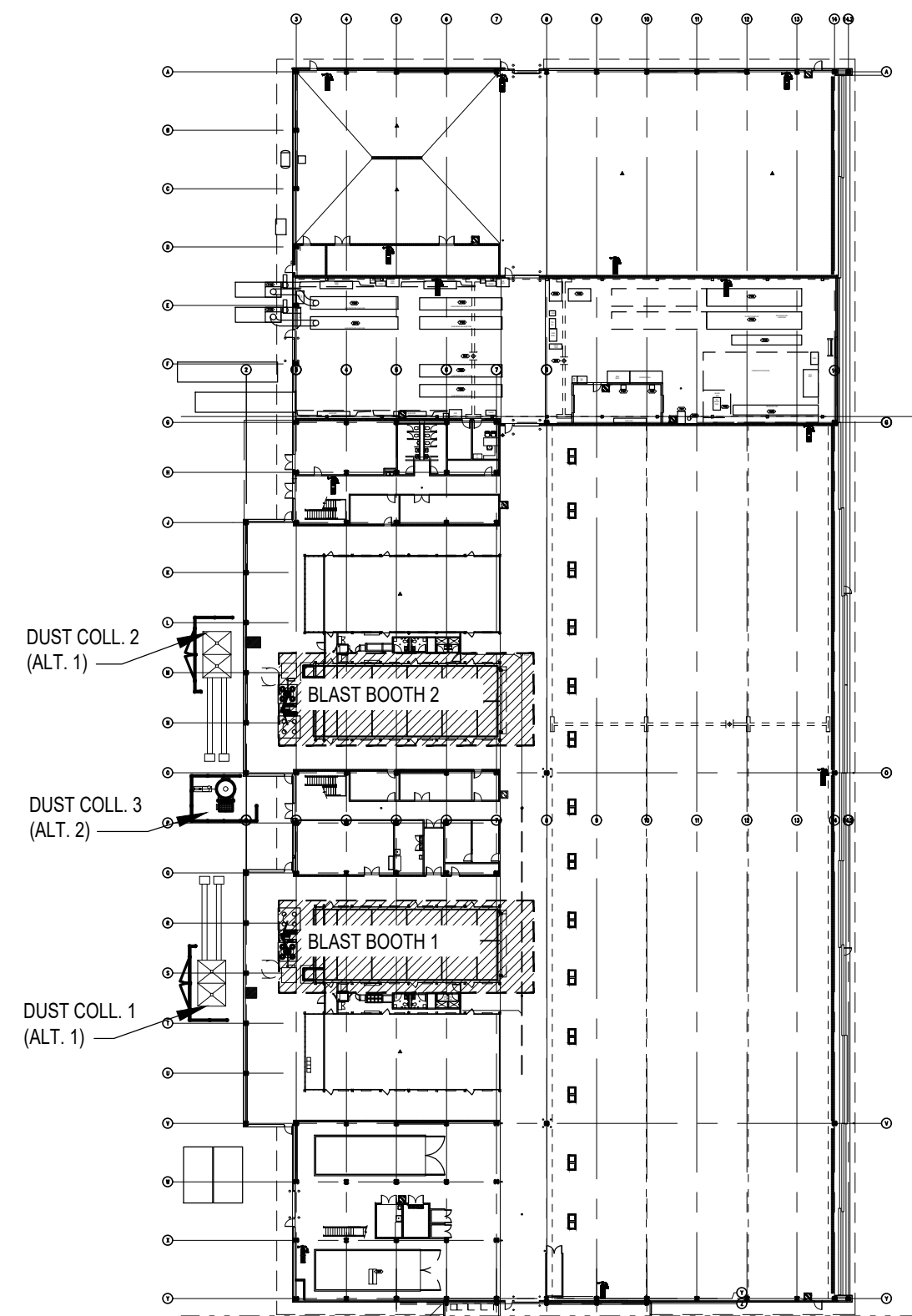
2
A102
PLAN AT BLAST BOOTH 2
SCALE: 1/4" = 1'-0"
TRUE NORTH



1
A102
PLAN AT BLAST BOOTH 1
SCALE: 1/4" = 1'-0"
TRUE NORTH

- CONSTRUCTION NOTES:**
- REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - ALL NEW BUILDING MATERIALS TO BE OF NON-COMBUSTIBLE OR WOOD FIRE RETARDANT TREATED MATERIAL.
 - ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE CLEANED, PATCHED AND REPAIRED TO LIKE NEW CONDITION.
 - EXISTING BLAST BOOTHS TO REMAIN. MODIFICATIONS INCLUDE ATTACHING RUBBERIZED PANELS ON ALL INTERIOR BOOTH WALLS; ATTACHING RUBBERIZED PANELS ON INTERIOR SIDE OF ALL BLAST BOOTH DOORS; REPLACING OVERHEAD DOOR/CONTROLS. SEAL ALL PENETRATIONS TO PREVENT CONTAMINANT LEAKAGE. ALL OTHER MODIFICATIONS ARE MECHANICAL IN NATURE. REFER TO MECHANICAL DRAWINGS.
 - PROVIDE AN APPROVED DIELECTRIC BARRIER OR ISOLATION GASKET WHEREVER NEW CHANNELS, FASTENERS, OR STEEL TRACKS COME INTO DIRECT CONTACT WITH DISSIMILAR METALS (E.G., NEW ALUMINUM COMPONENTS TO EXIST, STRUCTURAL STEEL FRAMING). ALL FASTENERS EXPOSED TO THE BLAST ENVIRONMENT SHOWN ON THIS PLAN SHALL BE CORROSION-RESISTANT FLUSH-HEAD OR PANCAKE-HEAD HARDWARE.
 - THE EXTENSION OF THE NEW FLOOR PIT AND SWEEPER VACUUM SYSTEM (KEYED NOTE 8) MUST BE INSTALLED PERFECTLY FLUSH TO WITHIN +/- 1/8 INCH OF THE ADJACENT EXISTING SLAB ELEVATIONS. CONCRETE EDGES MUST BE GROUND SMOOTH AND CLEANED ABSOLUTELY FREE OF EFFLORESCENCE PRIOR TO INSTALLATION OF THE EQUIPMENT.
 - CONTRACTOR SHALL SALVAGE, CLEAN, AND RE-MOUNT ALL EXISTING BOOTH IDENTIFICATION SIGNAGE AND MANDATORY OSHA/MILITARY SAFETY WARNING NOTICES (IF IMPACTED DURING CONSTRUCTION).
 - THE BLAST BOOTH EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S DESIGNATED SOLE SOURCE VENDOR. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE SOLE SOURCE VENDOR'S WORK IN THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SOLE SOURCE VENDOR'S WORK WITH ALL OTHER TRADES, PROVIDING ACCESS TO THE WORK AREA, AND COORDINATING ALL REQUIRED DEMOLITION, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER ANCILLARY WORK NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.

- KEYED NOTES:**
- | # |
|---|
| 1. NEW SPRAY ON PROTECTIVE COATING ON EXISTING BLAST BOOTH DOORS. SEE SPECIFICATIONS. WINDOWS TO BE LEFT UNOBSTRUCTED. SEE SHEET A-301. |
| 2. NEW GASKETS ON ALL SIDES OF DOORS. REFER TO DOOR HARDWARE SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION. |
| 3. EXISTING STEEL ANGLE AT FLOOR TO REMAIN. |
| 4. CLEAN PIT BEHIND BOOTH AFTER CUTTING PIT EXTENSION. |
| 5. NEW SPRAY ON PROTECTIVE COATING ON EXISTING INTERIOR BOOTH WALLS. SEE SPECIFICATIONS AND SHEET A-301 FOR DETAILS. |
| 6. INFILL EXISTING PIT WITH GRANULAR FILL AND CONCRETE. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION. |
| 7. EXTEND PIT FOR NEW VACUUM EQUIPMENT. COORDINATE WITH BLAST BOOTH EQUIPMENT VENDOR. |
| 8. SEE MECHANICAL DRAWINGS FOR MODIFICATIONS. |
| 9. NEW HIGH-SPEED, RUBBER/FABRIC, OVERHEAD DOOR. SEE SHEET A-301 AND SPECIFICATIONS FOR MORE INFORMATION. THE CONTRACTOR SHALL FIELD-VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING BLAST BOOTH FRAMING PRIOR TO ANCHORING THE NEW HIGH-SPEED RUBBER FABRIC OVERHEAD DOORS, TRACKS, AND HEAVY-DUTY HOUSINGS. REINFORCE STRUCTURAL JAMBS IN STRICT ACCORDANCE WITH THE OVERHEAD DOOR MANUFACTURER'S LOADING SPECIFICATIONS. |
| 10. NEW OVERHEAD DOOR CONTROLS. USE LOCATION FROM REMOVED CONTROLS. SEE SHEET A-301. |



KEY PLAN
SCALE: N.T.S.
TRUE NORTH

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL L.L.C. #000329 12/31/27
ENGINEERING L.L.C. #000613 12/31/27

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 6/15/2026

CAD DWG FILE: _____
DRAWN BY: MJM
CHECKED BY: RAR
DESIGNED BY: CASCO DIVERSIFIED

SHEET TITLE:
**FLOOR PLANS AT
BLAST BOOTHS**

SHEET NUMBER:

A-103

6 OF 15 SHEETS
06/15/2026

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

MISSOURI
NATIONAL GUARD

SPRINGFIELD AVCRAD - REPLACE BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 6/15/2026

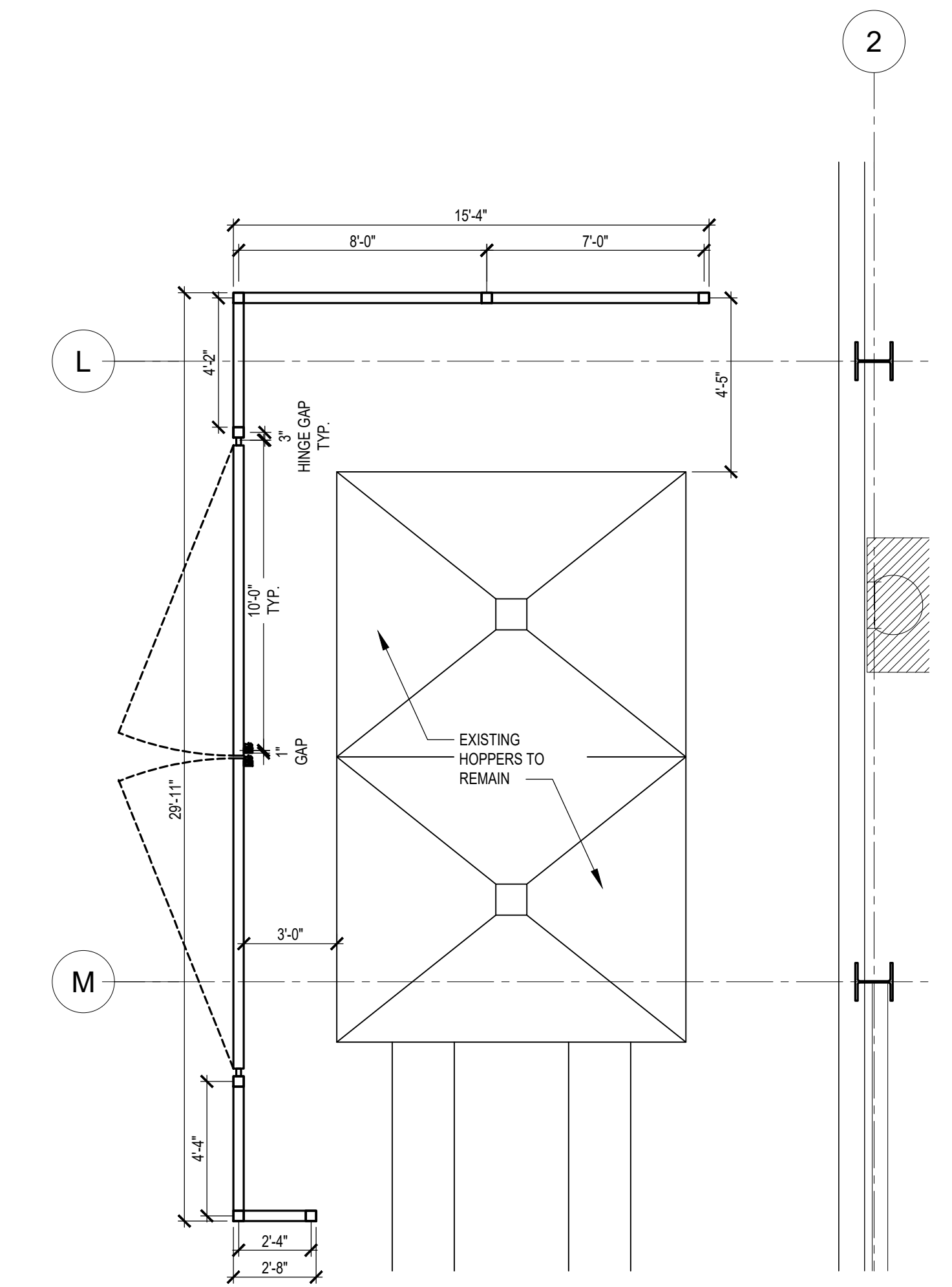
CAD DWG FILE: _____
 DRAWN BY: MJM
 CHECKED BY: RAR
 DESIGNED BY: CASCO DIVERSIFIED

SHEET TITLE:
FENCE PLANS
& DETAILS
(ALTERNATE 1 & 2)

SHEET NUMBER:

A-104

7 OF 15 SHEETS
06/15/2026



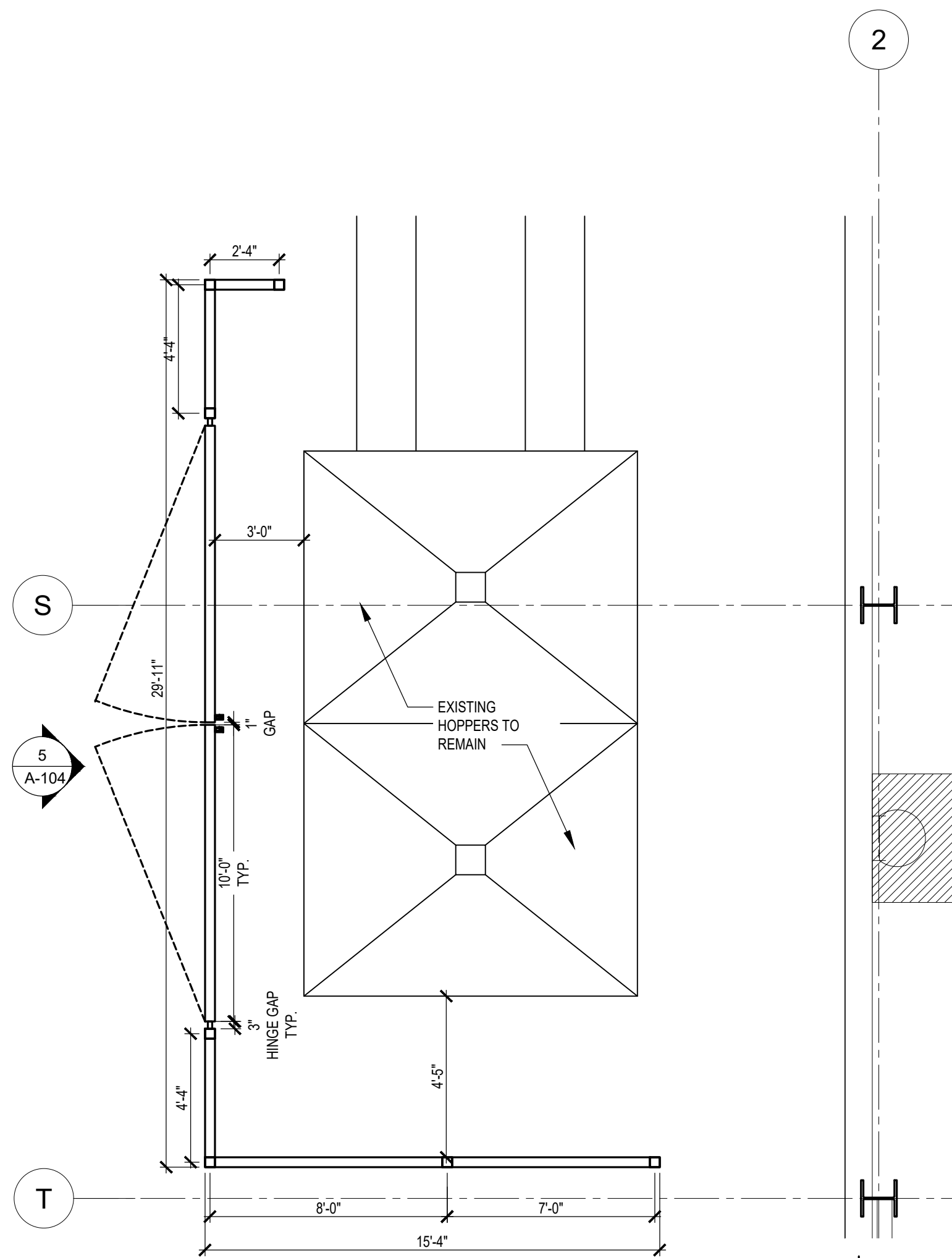
1
A-104

FENCE AT DUST COLLECTOR 1

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

(ALTERNATE 1)





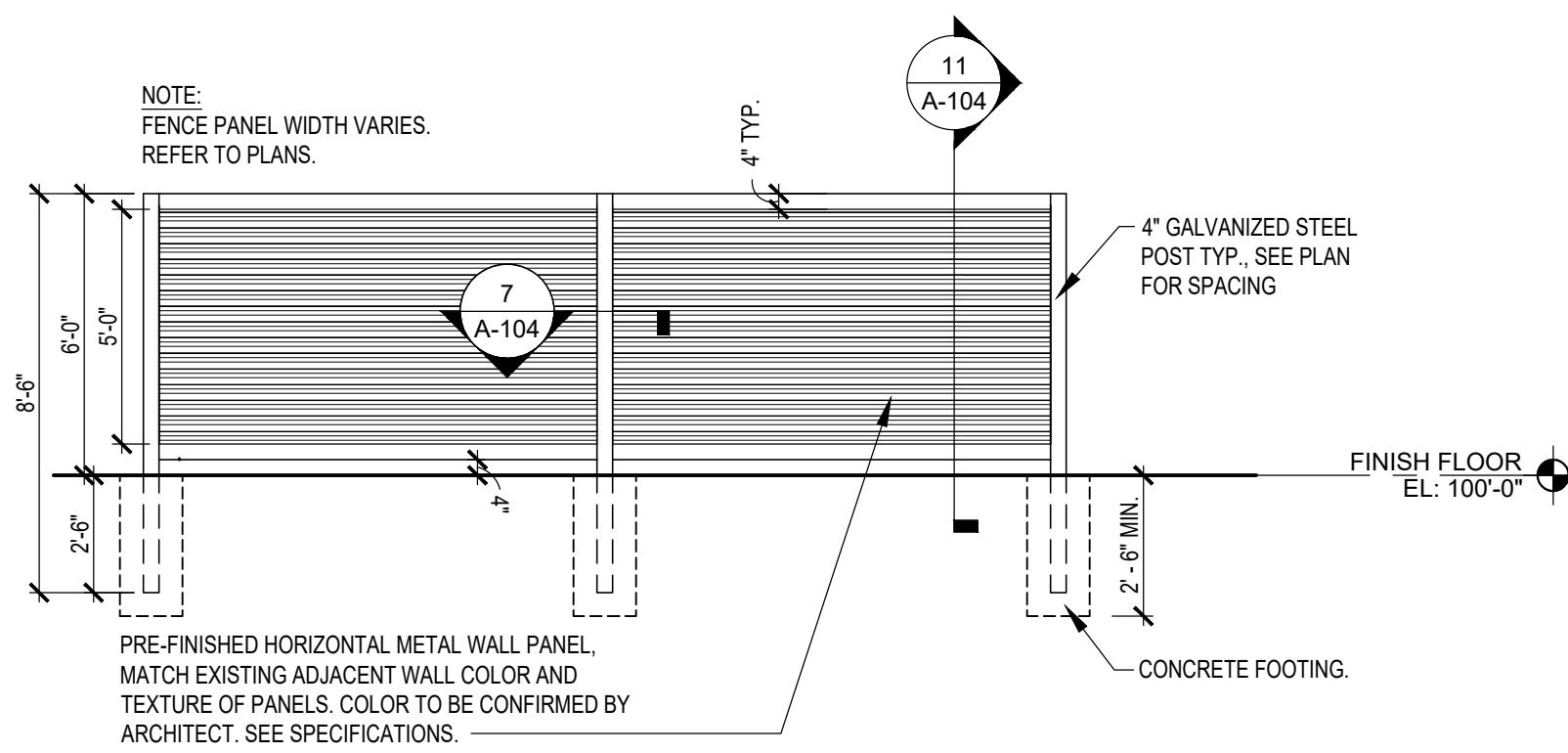
3
A-104

FENCE AT DUST COLLECTOR 2

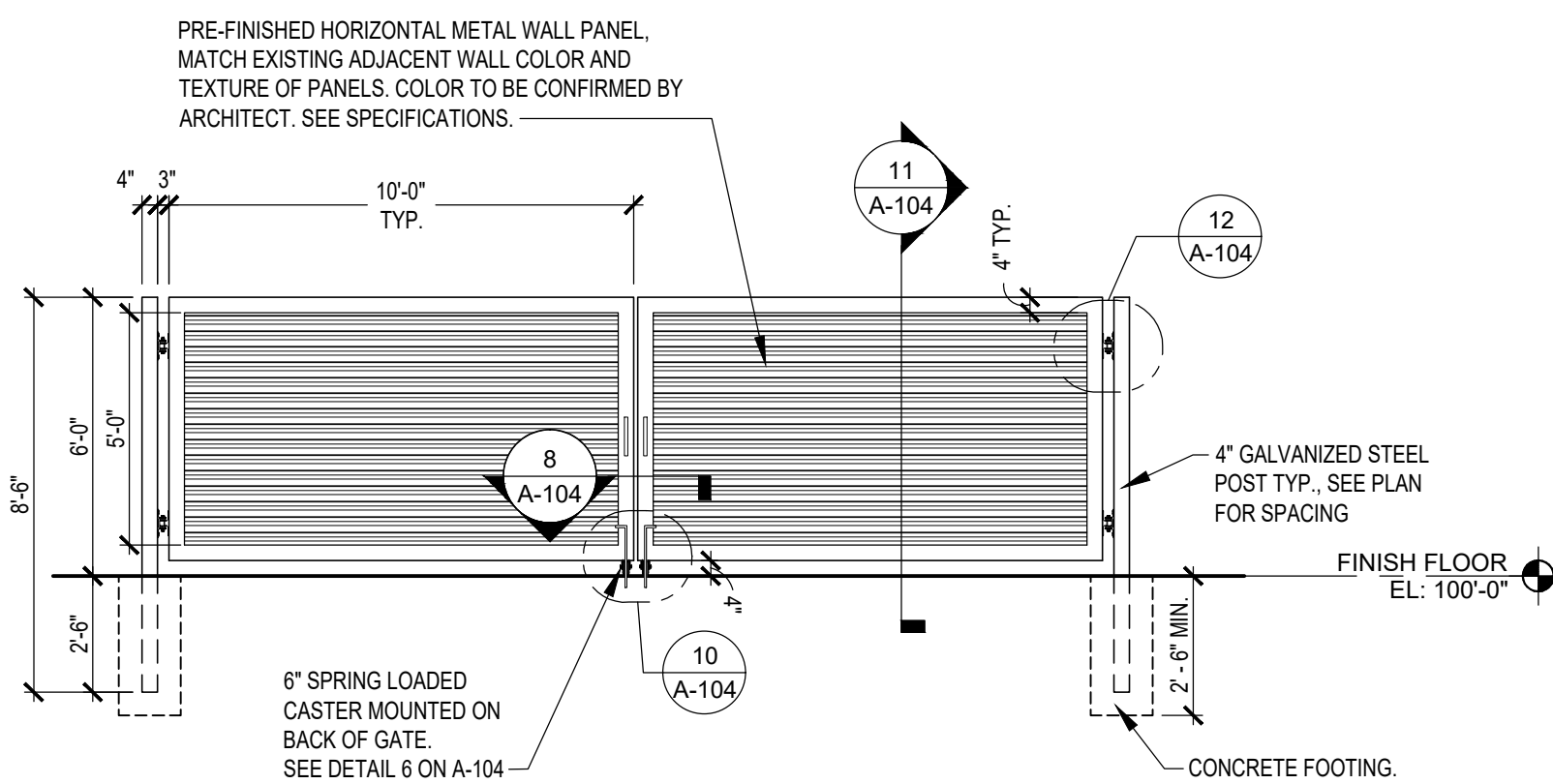
SCALE: 1/4" = 1'-0"

(ALTERNATE 1)





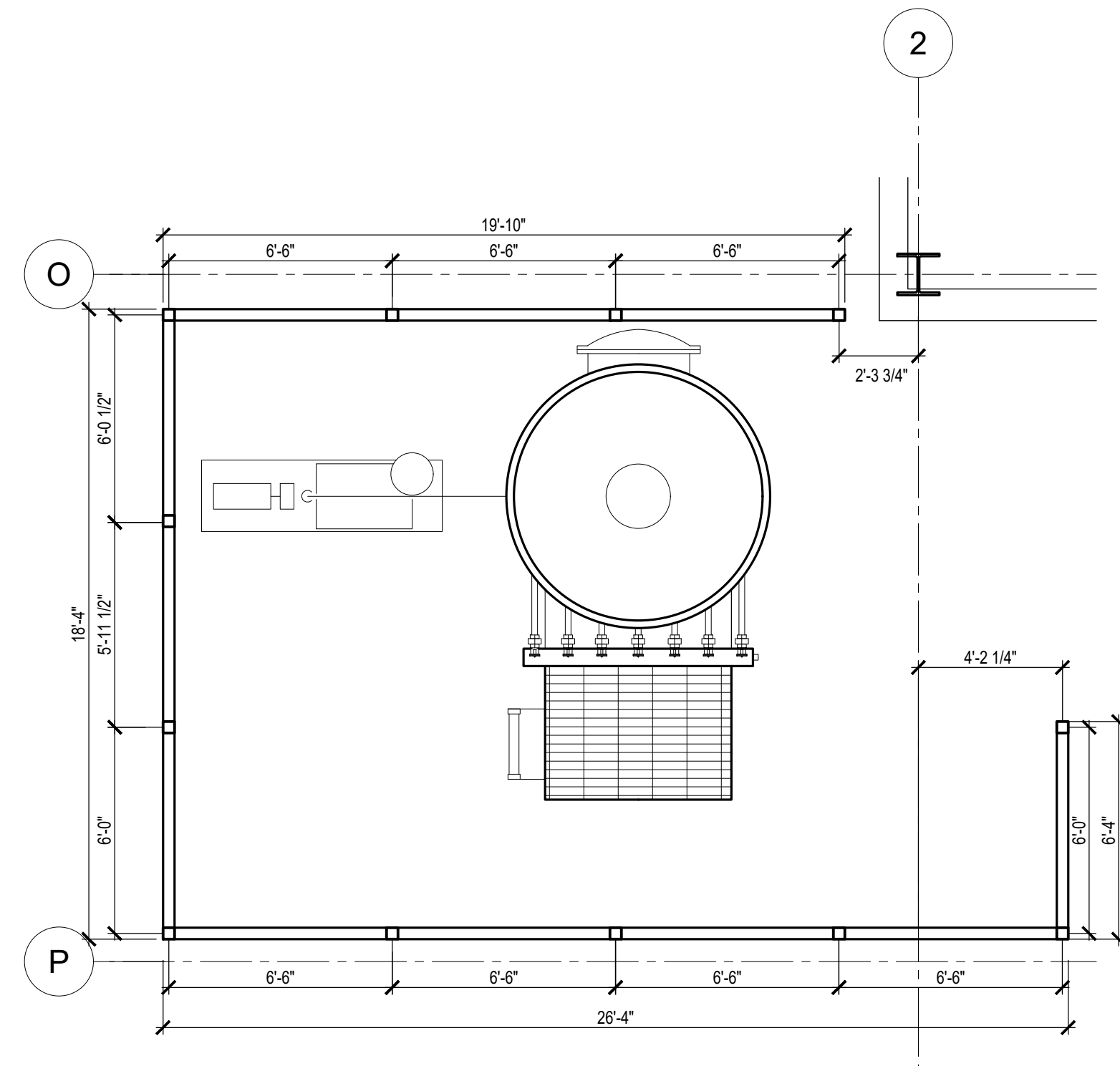
4 A-104 TYP. FENCE PANEL ELEVATION SCALE: 1/4" = 1'-0"



5
A-104

GATE ELEVATION

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



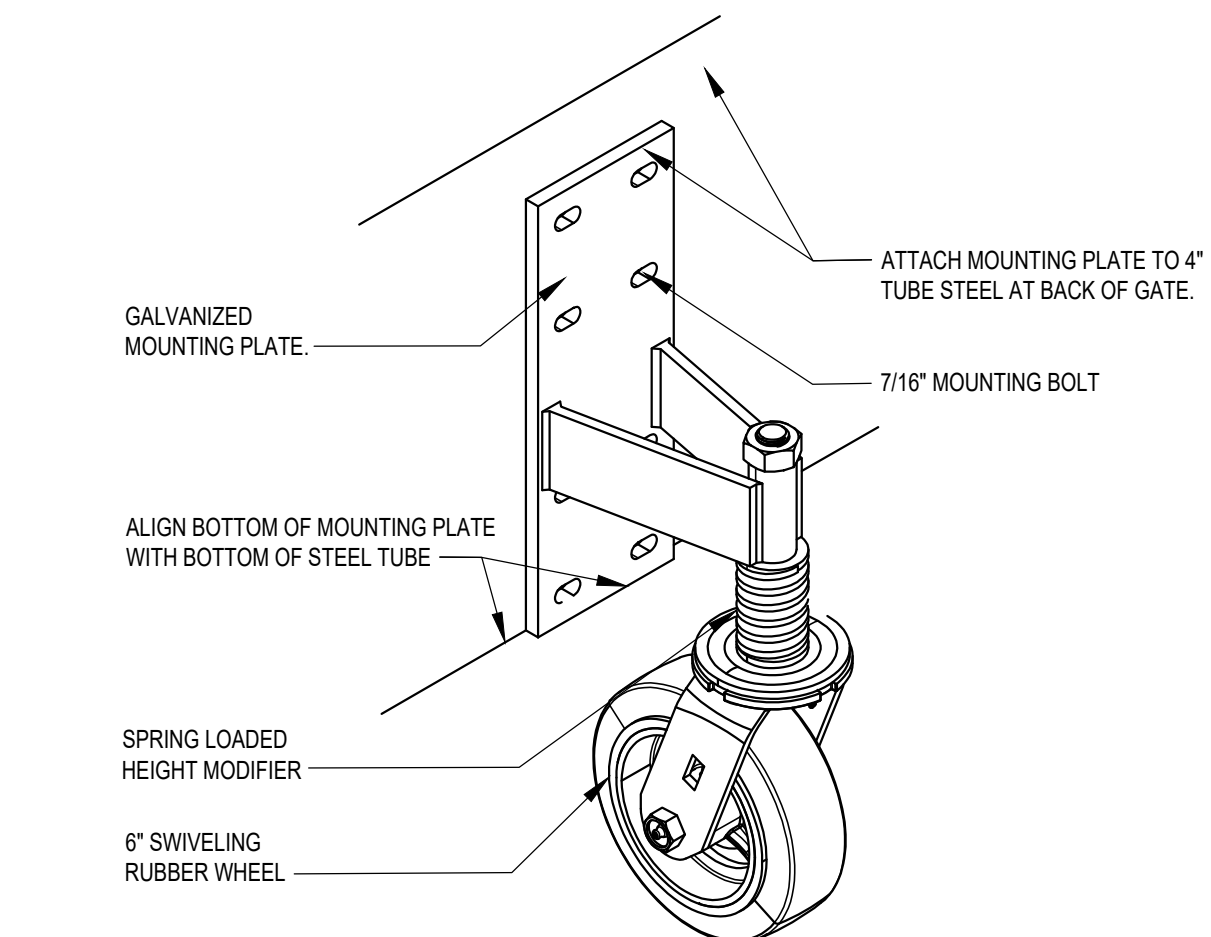
2
A-104

FENCE AT VACUUM SYSTEM

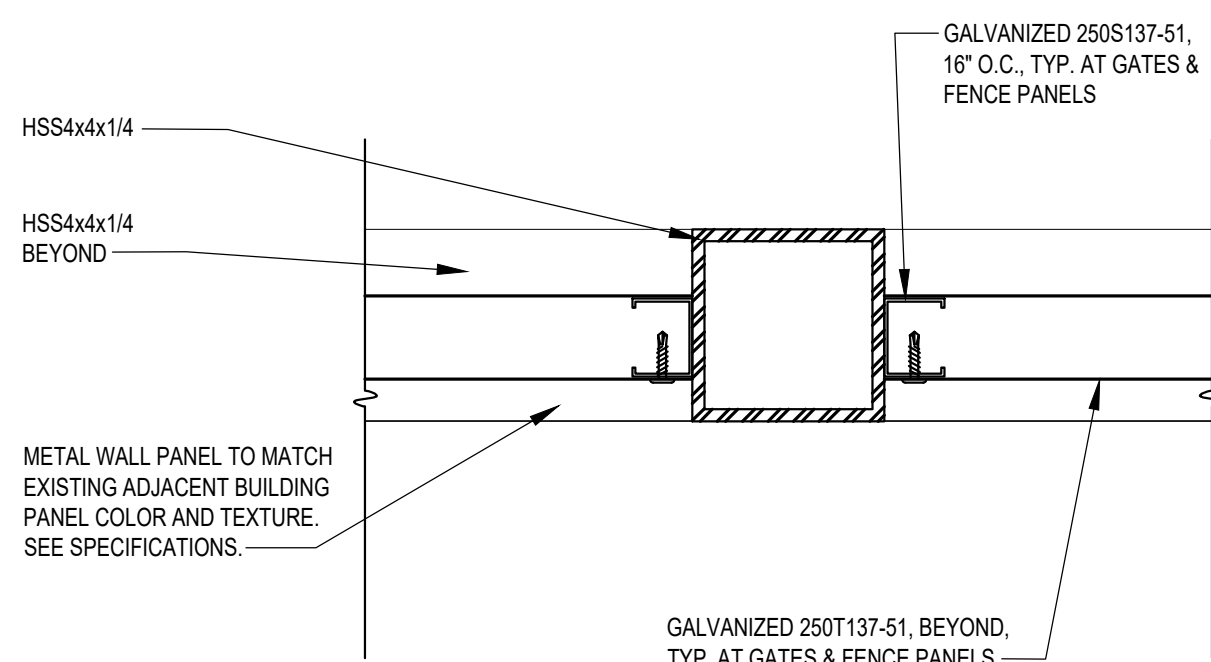
SCALE: 1/4" = 1'-0"

(ALTERNATE 2)

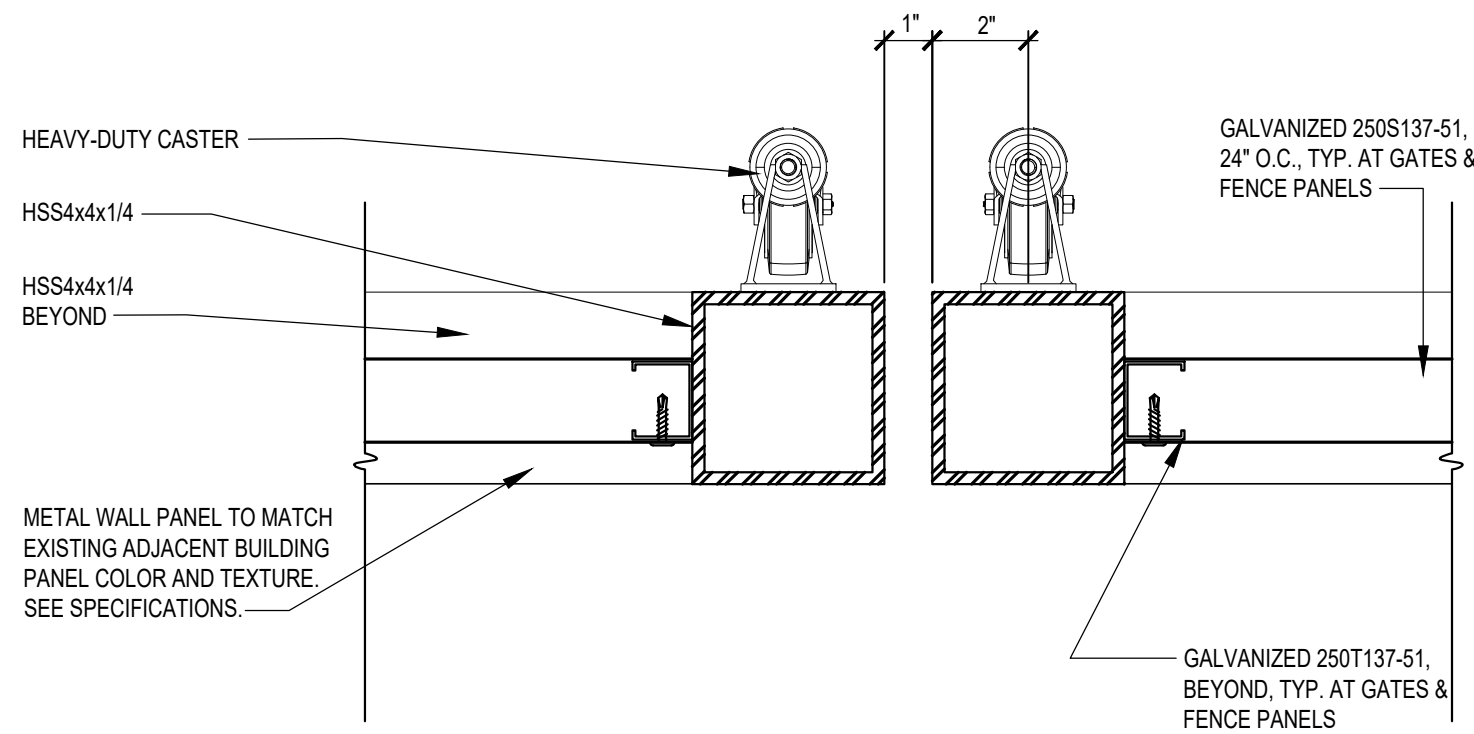
TRUE NORTH



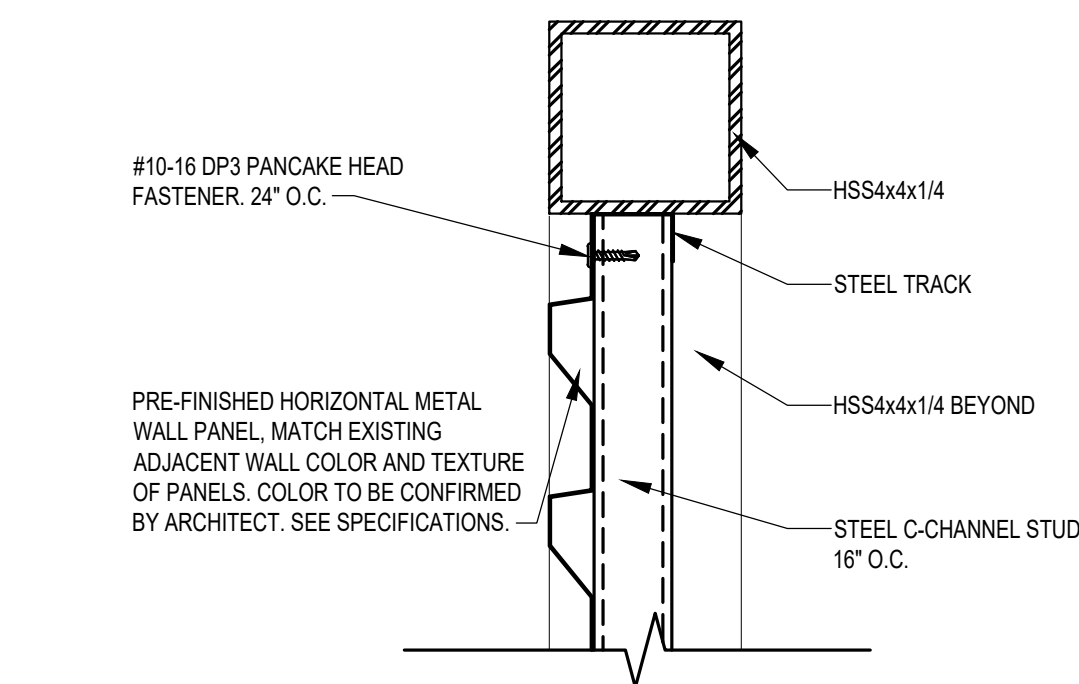
HEAVY DUTY CASTER DETAIL



7 SECTION @ FENCE POST
A-104 SCALE: 3" = 1'-0"



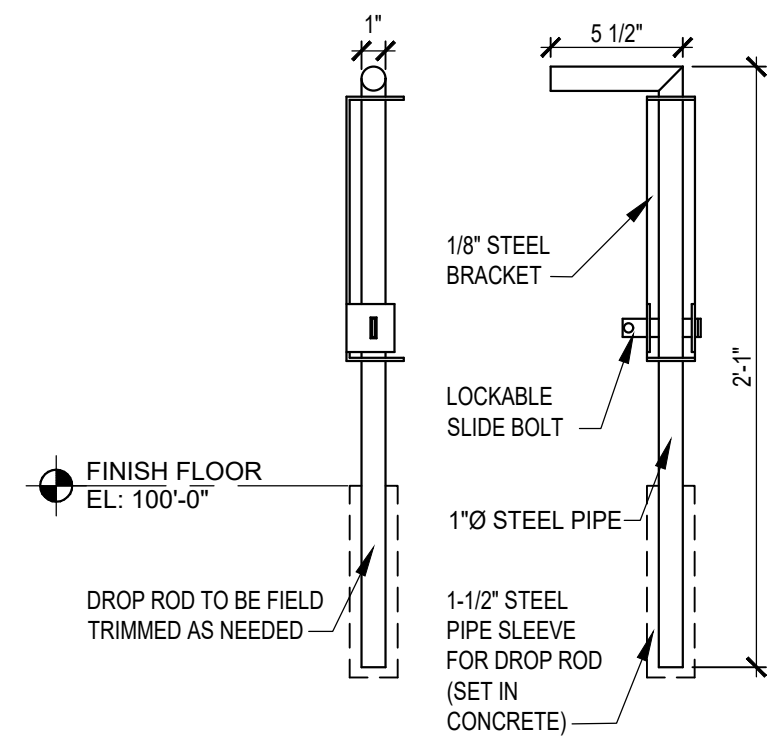
8 SECTION @ GATE
A-104 SCALE: 3" = 1'-0"



9
A-104

SECTION @ TOP OF GATE

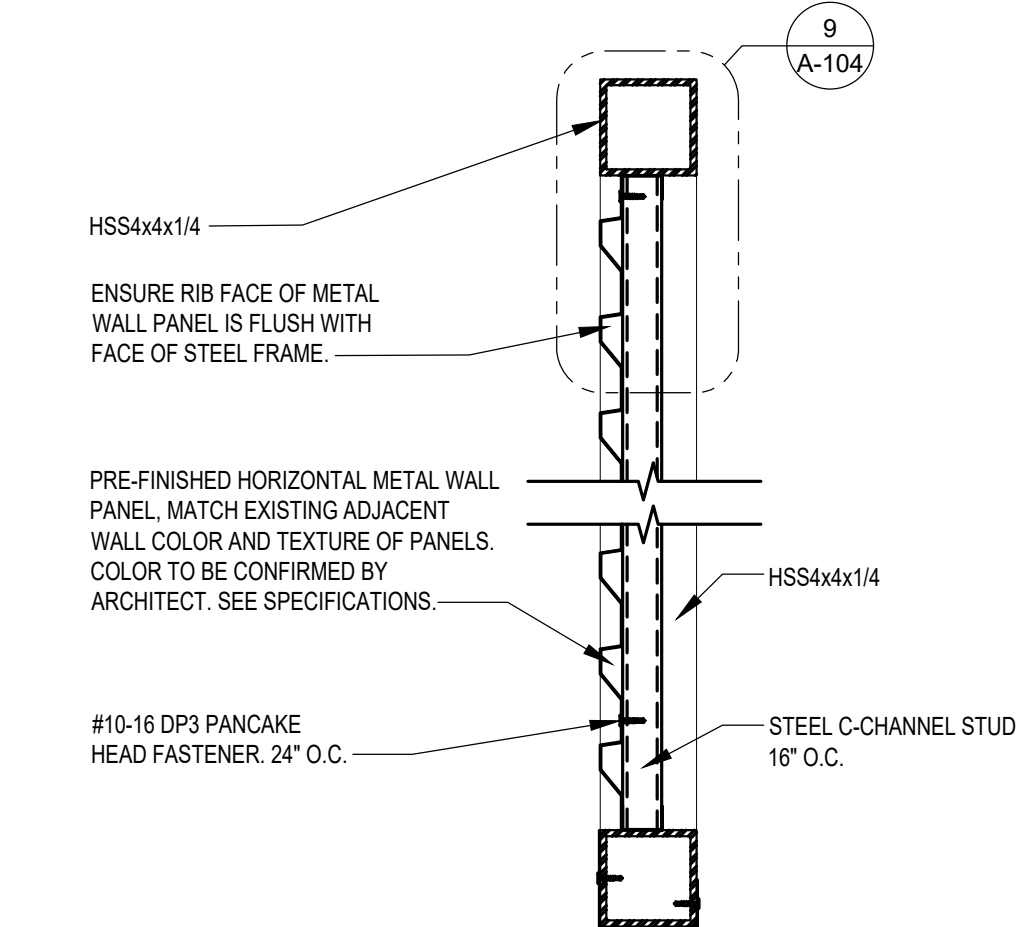
SCALE: 3" = 1'-0"



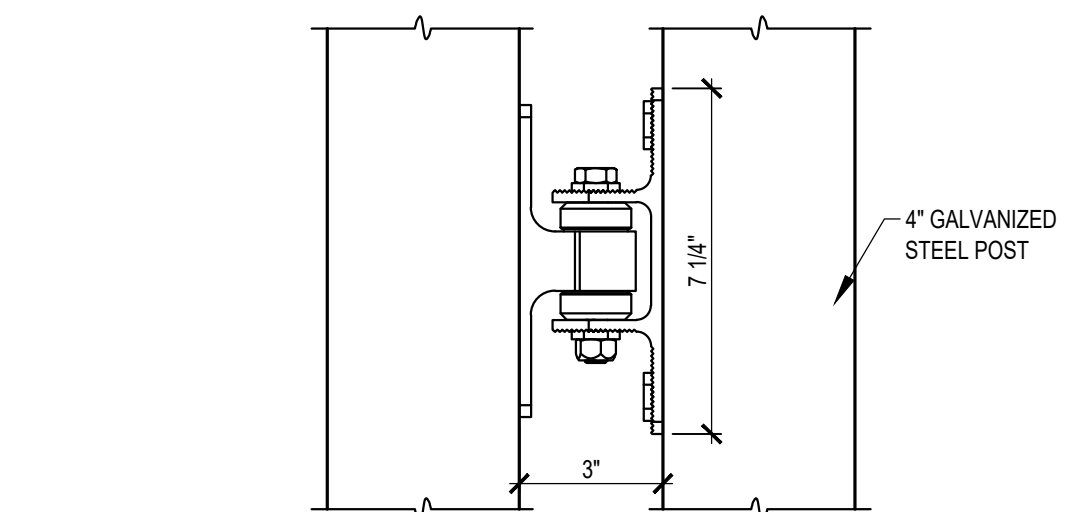
10
A-104

DROP ROD DETAIL

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



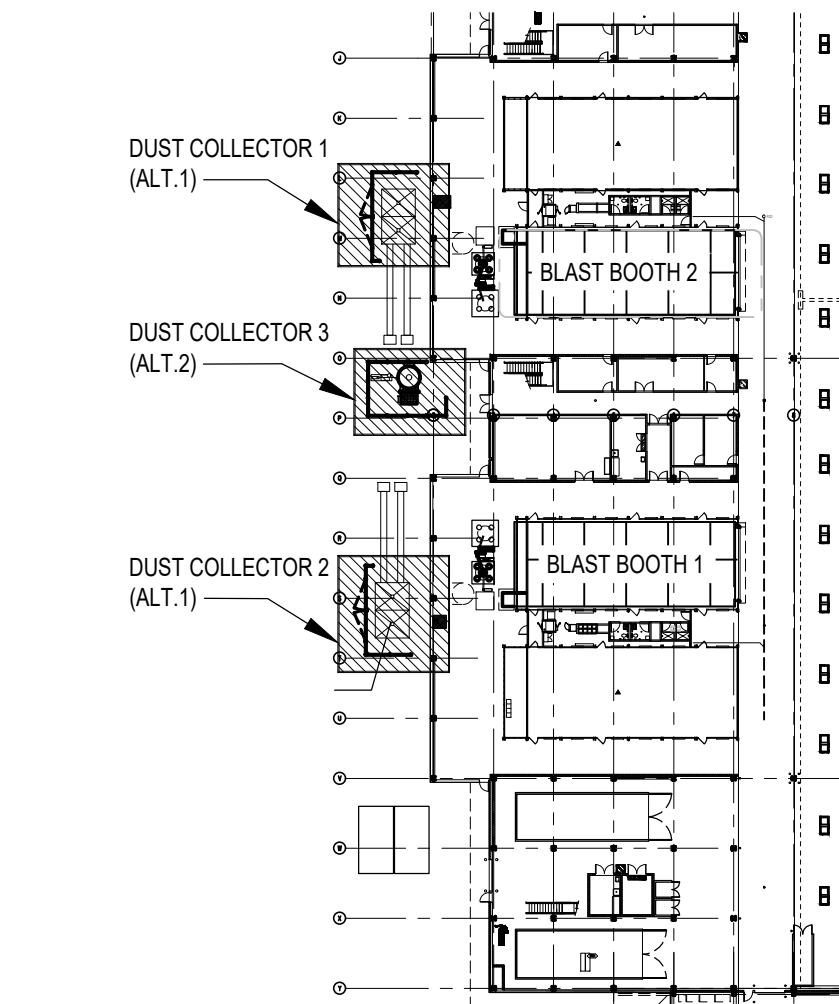
11 SECTION THROUGH FENCE
A-104 SCALE: 1 1/2" = 1'-0"



12
A-104

HEAVY DUTY HINGE DETAIL

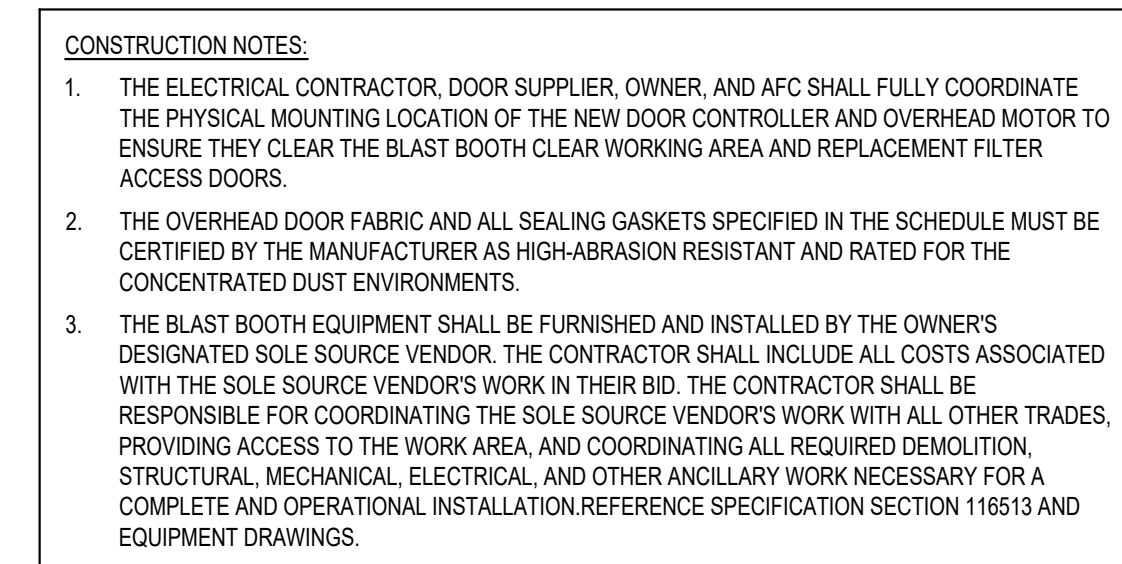
SCALE: 3" = 1'-0"



KEY PLAN

SCALE: 1/64" = 1'-0"

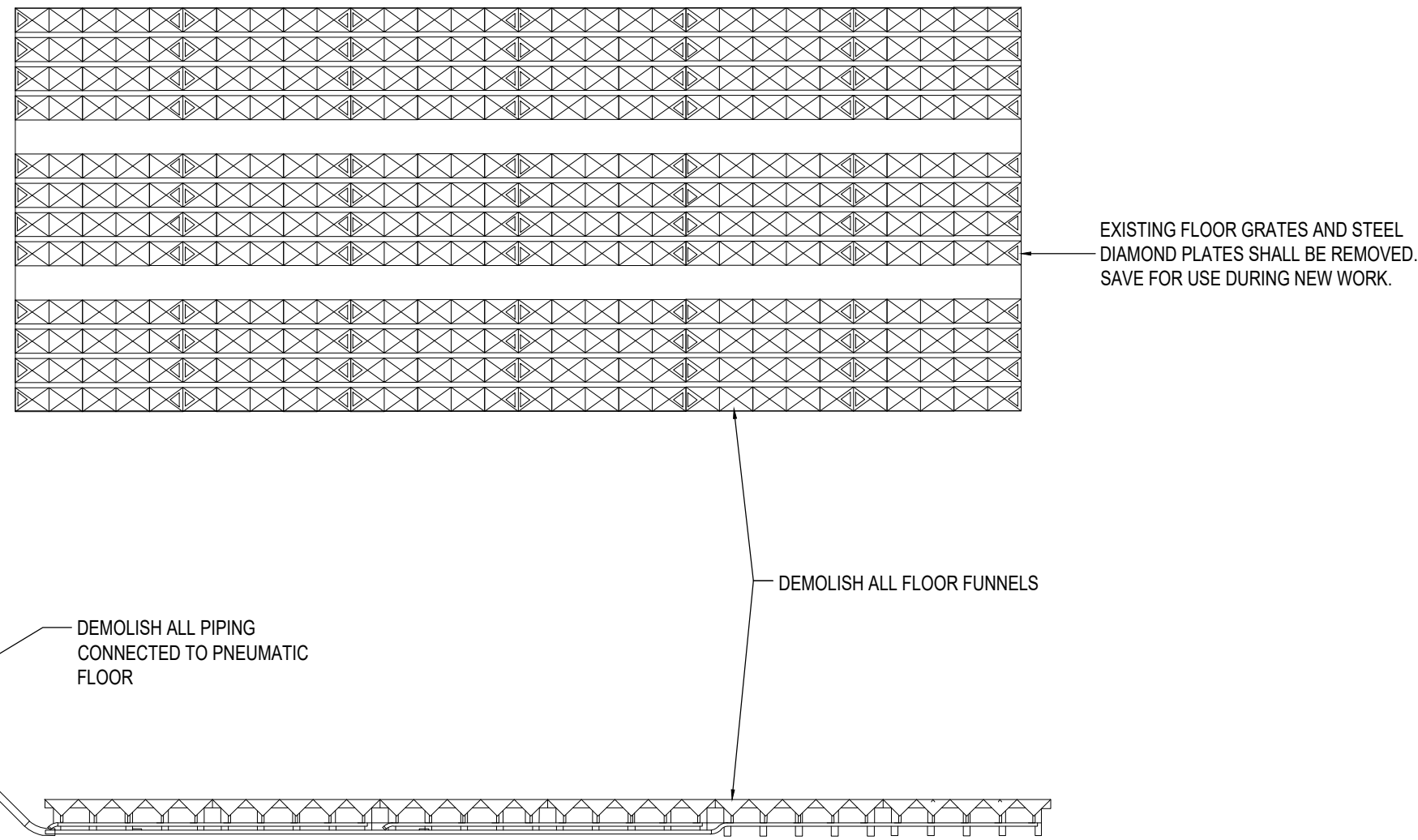




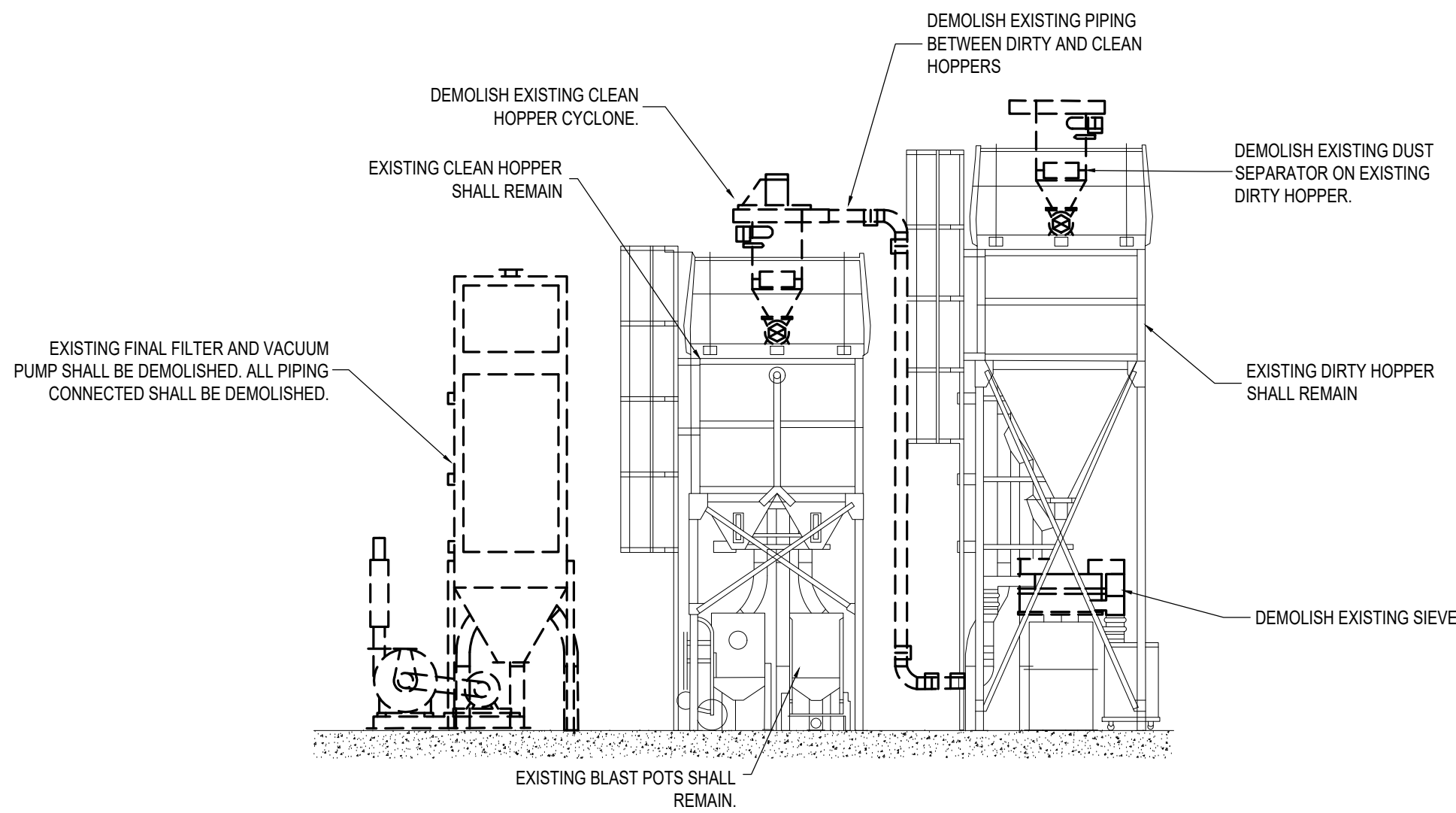
DOOR SCHEDULE									
SYM.	DOOR LOCATION	SIZE		DOOR		HEAD DETAIL	JAMB DETAIL	HWR. GROUP	COMMENTS
		WIDTH	HEIGHT	MATERIAL	TYPE				
01, 03, 04, 06	EXISTING DOORS AT BLAST BOOTH	3'-0"	7'-0"	-	A	-	-	1	REMOVE "ENTER HERE" SIGNS FROM DOORS
02, 05	HIGH-SPEED OH DOOR	24'-0"	22'-0"	RUBBER/FABRIC	B	A-301	A-301	2	
07, 08, 09, 10, 11, 12, 13, 14	EXISTING DOORS AT BLAST BOOTH	3'-0"	7'-0"	-	A	-	-	3	

3 HIGH-SPEED DOOR JAMBS DTL.
A-301 SCALE: 1" = 1'-0"





3
M101
MECHANICAL BLAST BOOTH FLOOR DEMOLITION
SCALE: N.T.S.



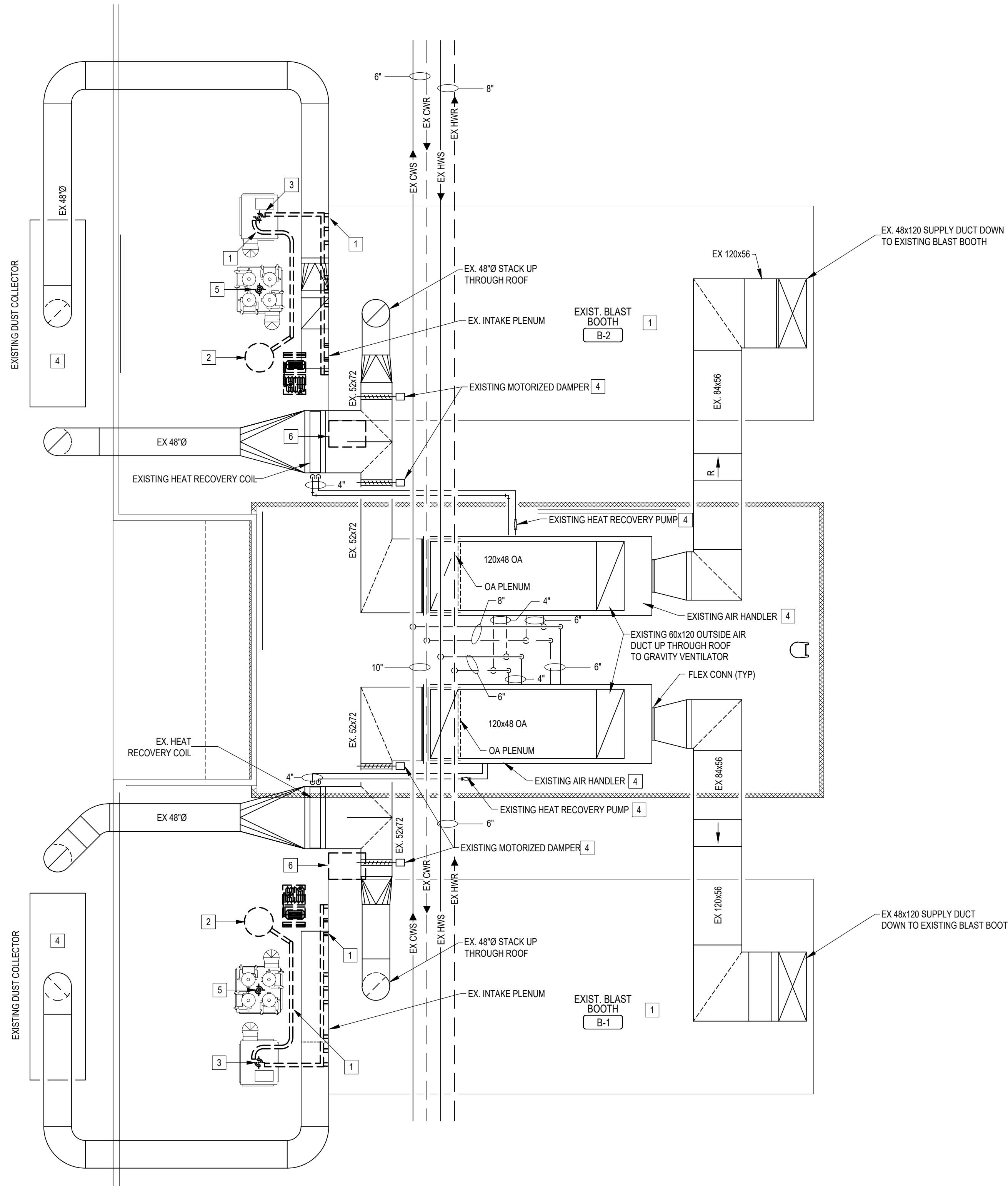
2
M101
MECHANICAL BLAST BOOTH EQUIPMENT DEMOLITION
SCALE: N.T.S.

GENERAL NOTES

- THE BLAST BOOTH EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S DESIGNATED SOLE SOURCE VENDOR. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE SOLE SOURCE VENDOR'S WORK IN THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SOLE SOURCE VENDOR'S WORK WITH ALL OTHER TRADES, PROVIDING ACCESS TO THE WORK AREA, AND COORDINATING ALL REQUIRED DEMOLITION, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER ANCILLARY WORK NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.
- DEMOLITION OF THE EXISTING BLAST BOOTH EQUIPMENT MAY BE PERFORMED BY THE CONTRACTOR OR THE SOLE SOURCE VENDOR AT THE CONTRACTOR'S OPTION. IF THE CONTRACTOR ELECTS TO SELF-PERFORM THE DEMOLITION, ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE SOLE SOURCE VENDOR'S REQUIREMENTS AND RECOMMENDATIONS TO FACILITATE INSTALLATION OF THE NEW EQUIPMENT. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.

KEYED NOTES

- DEMOLISH EXISTING VACUUM FLOOR RECOVERY SYSTEM. THIS SHALL INCLUDE ALL HOPPERS AND PIPING BELOW EXISTING BLAST BOOTH. THE SKIN OF THE BOOTH SHALL REMAIN. ALL DUCTWORK CONNECTING TO THE BOOTH TO THE HVAC SYSTEM SHALL REMAIN AS IS. CONTRACTOR SHALL INSTALL NEW AIR FILTERS AT BOOTH THAT MATCH BLAST BOOTH MANUFACTURER'S SPECIFICATIONS. (120 COUNT, 2'X2' MERV 8).
- DEMOLISH EXISTING VACUUM PUMP, FINAL FILTER, AND ITS ASSOCIATED DUCTWORK/PIPING.
- DEMOLISH EXISTING DUST SEPARATOR. DEMOLISH EXISTING SIEVE AND GATE VALVE. PREPARE CONNECTION POINTS FOR NEW WORK.
- EXISTING EQUIPMENT SHALL REMAIN. NO DEMOLITION WORK REQUIRED.
- DEMOLISH EXISTING CYCLONE ON TOP OF CLEAN MEDIA HOPPER. PREPARE CONNECTION POINTS FOR NEW WORK.
- DEMOLISH EXISTING CONTROLS ENCLOSURE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR DEMOLITION REQUIREMENTS.



1
M101
MECHANICAL BLAST BOOTH UPGRADE DEMOLITION PLAN
SCALE: 3/32" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



RYAN M. LAFRANCE
License Number: 2022011019
Expiration Date: 12/31/27
CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL L.L.C. #000329 12/31/27
ENGINEERING L.L.C. #000613 12/31/27

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 6/15/2026

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

SHEET TITLE:
MECHANICAL
BLAST BOOTH
UPGRADES - DEMO

SHEET NUMBER:

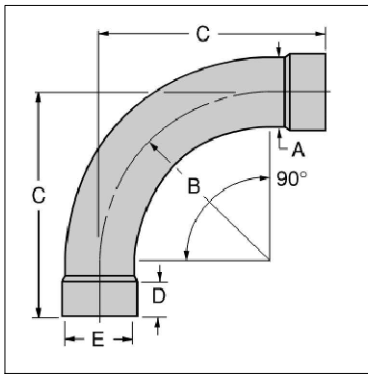
M-101

9 OF 15 SHEETS
06/15/2026

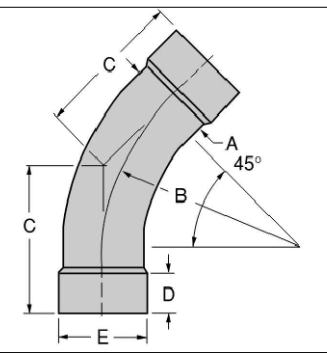
BID ALT. #2 GENERAL NOTES

- THE SANDING OPERATION IS ANTICIPATED TO GENERATE ALUMINUM-CONTAINING DUST. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH COMBUSTIBLE DUST TESTING, VACUUM SYSTEM PROCUREMENT, INSTALLATION, AND REQUIRED EXPLOSION PROTECTION MEASURES UNDER BID ALTERNATE #2. TEST RESULTS SHALL BE PROVIDED TO THE VACUUM SYSTEM MANUFACTURER FOR DESIGN OF A COMPLETE CODE-COMPLIANT SYSTEM. REFER TO SPECIFICATION SECTION 224000.
- VACUUM SYSTEM EQUIPMENT, PIPING, HOSE ASSEMBLIES, CONTROLS, ACCESSORIES, AND ASSOCIATED COMPONENTS SHALL BE FURNISHED BY THE VACUUM SYSTEM MANUFACTURER AND INSTALLED BY THE CONTRACTOR. THE VACUUM SYSTEM MANUFACTURER SHALL BE RESPONSIBLE FOR FINAL SYSTEM DESIGN, INCLUDING SIZING OF VACUUM PRODUCER, DUST COLLECTION EQUIPMENT, FILTRATION EQUIPMENT, VACUUM PIPING, FITTINGS, INLET VALVES, AND ALL ASSOCIATED COMPONENTS REQUIRED TO MEET THE PERFORMANCE REQUIREMENTS OF SPECIFICATION SECTION 224000. CONTRACTOR SHALL COORDINATE ALL WORK REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

Pipe Size	A-o.d.	Gauge	B	C	D'	E-I.d.
2 1/2"	2 1/8"	16	5"	7"	1 1/4"	2 1/8"
2 1/2"	2 1/2"	16	6"	8"	1 1/4"	2 1/2"
3"	3"	16	7 1/2"	9 1/2"	1 1/4"	3"
3 1/2"	3 1/2"	16	8 1/2"	10 1/2"	1 1/4"	3 1/2"
4"	4"	16	10"	12"	1 1/4"	4"
5"	5"	14	12 1/2"	15 1/4"	1 1/2"	5"
6"	6"	14	15"	18 1/4"	1 1/2"	6"
8"	8"	14	20"	24 1/4"	—	—



Pipe Size	A-o.d.	Gauge	B	C	D'	E-I.d.
2 1/2"	2 1/8"	16	5"	4 1/8"	1 1/4"	2 1/4"
2 1/2"	2 1/2"	16	6"	4 1/2"	1 1/4"	2 1/2"
3"	3"	16	7 1/2"	5 1/4"	1 1/4"	3"
3 1/2"	3 1/2"	16	8 1/2"	5 1/4"	1 1/4"	3 1/2"
4"	4"	16	10"	6 1/4"	1 1/4"	4"
5"	5"	14	12 1/2"	7 1/8"	1 1/2"	5"
6"	6"	14	15"	9 1/2"	1 1/2"	6"
8"	8"	14	20"	12 1/2"	—	—

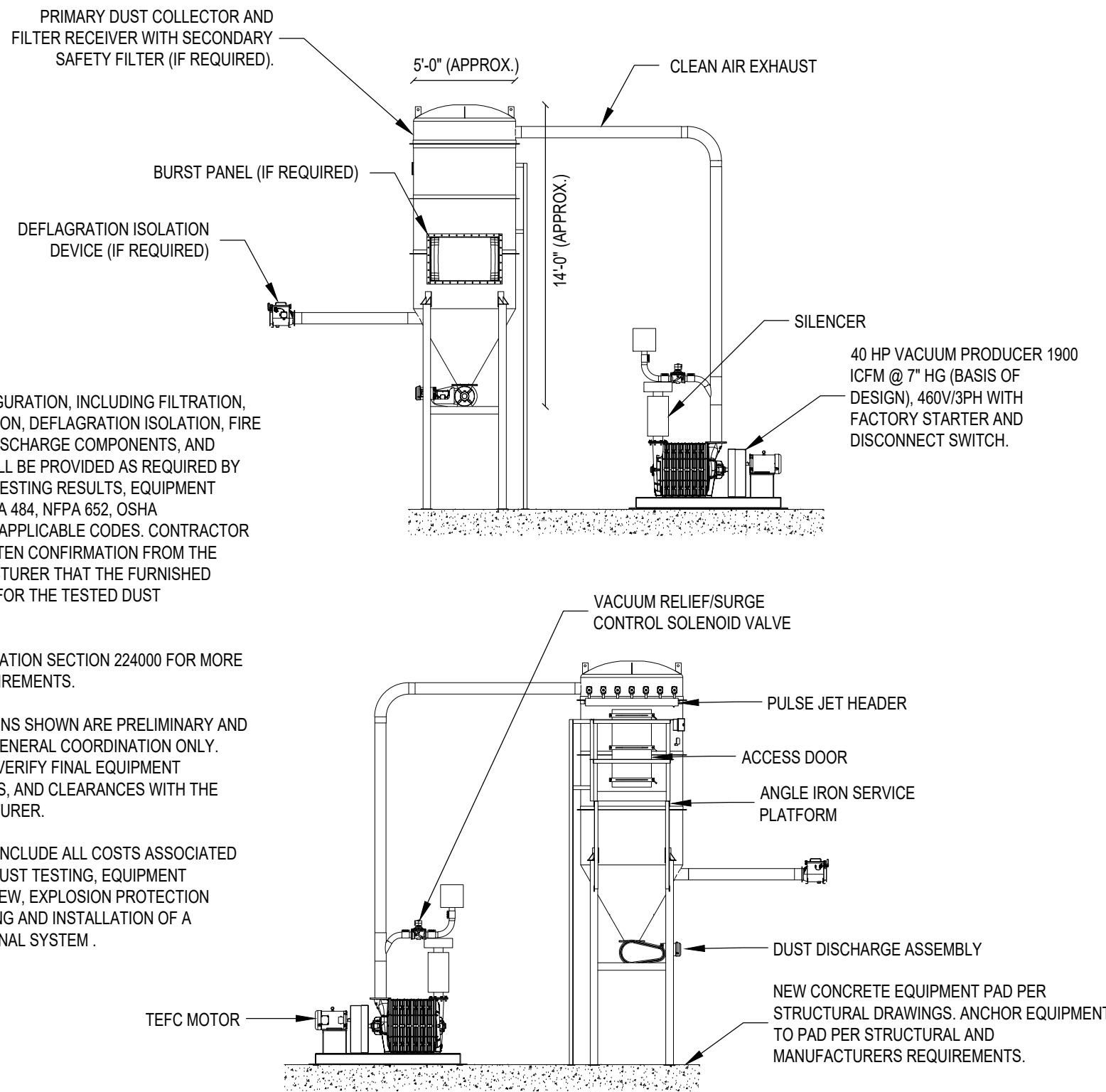


TYPICAL VACUUM PIPING ELBOW DIMENSIONS

2

M-102

SCALE: N.T.S.



NOTES:

- FINAL SYSTEM CONFIGURATION, INCLUDING FILTRATION, EXPLOSION PROTECTION, DEFLAGRATION ISOLATION, FIRE PROTECTION, DUST DISCHARGE COMPONENTS, AND SAFETY DEVICES SHALL BE PROVIDED AS REQUIRED BY COMBUSTIBLE DUST TESTING RESULTS, EQUIPMENT MANUFACTURER, NFPA 684, NFPA 682, OSHA REQUIREMENTS, AND APPLICABLE CODES. CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION FROM THE EQUIPMENT MANUFACTURER THAT THE FURNISHED SYSTEM IS SUITABLE FOR THE TESTED DUST CHARACTERISTICS.
- REFERENCE SPECIFICATION SECTION 224000 FOR MORE PERFORMANCE REQUIREMENTS.
- EQUIPMENT DIMENSIONS SHOWN ARE PRELIMINARY AND ARE PROVIDED FOR GENERAL COORDINATION ONLY. CONTRACTOR SHALL VERIFY FINAL EQUIPMENT DIMENSIONS, WEIGHTS, AND CLEARANCES WITH THE SELECTED MANUFACTURER.
- CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH COMBUSTIBLE DUST TESTING, EQUIPMENT MANUFACTURER REVIEW, EXPLOSION PROTECTION FEATURES, FURNISHING AND INSTALLATION OF A COMPLETE OPERATIONAL SYSTEM.

INDUSTRIAL CENTRAL VACUUM SYSTEM

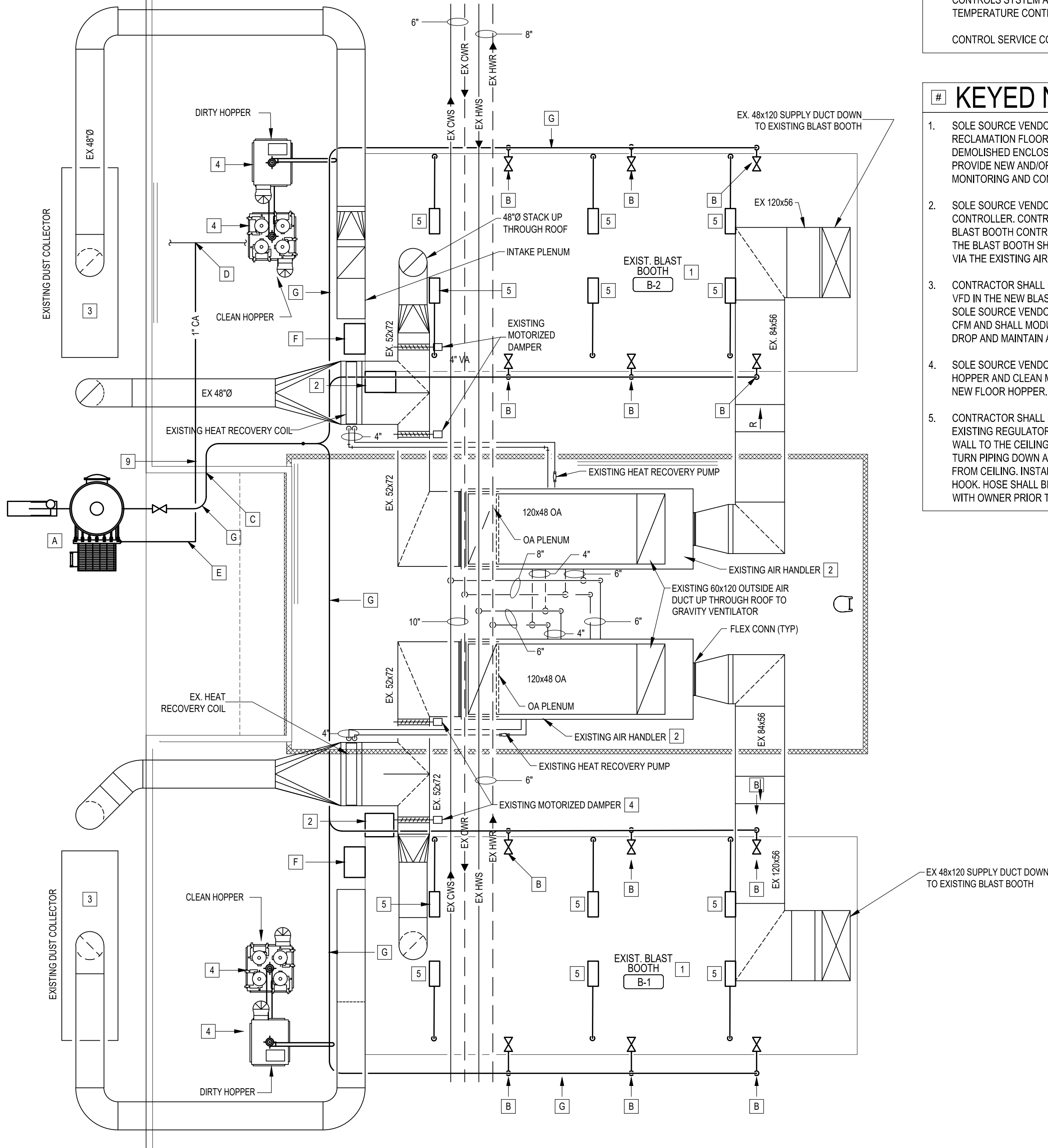
3

M-102

SCALE: N.T.S.

BID ALTERNATE #2

- PROVIDE NEW VACUUM PUMP AND DUST COLLECTION TANK INSTALLED ON NEW CONCRETE PAD OUTSIDE. SEE SPECIFICATION SECTION 224000 FOR PERFORMANCE REQUIREMENTS. REFERENCE STRUCTURAL DRAWINGS FOR FINAL LOCATION OF EQUIPMENT AND ANCHORAGE REQUIREMENTS.
- PROVIDE THREE (3) VACUUM DROPS ROUTED DOWN INTO EACH EXISTING BLAST BOOTH AS PART OF THE VACUUM SYSTEM INSTALLATION. ROUTE VACUUM PIPING TIGHT TO STRUCTURE AND DOWN EXTERIOR WALL OF BOOTH TO VACUUM OUTLET LOCATIONS IN BOOTH. SEAL AROUND ALL BLAST BOOTH PENETRATIONS IN ACCORDANCE WITH ARCHITECTURAL DETAILS. PROVIDE 1-1/2-INCH VACUUM INLET VALVES AT LOCATIONS INDICATED FOR CONNECTION OF STATIC DISSIPATIVE VACUUM HOSE ASSEMBLIES FURNISHED BY VACUUM SYSTEM MANUFACTURER. VACUUM PIPING, INLET VALVES, HOSE ASSEMBLIES, AND ASSOCIATED ACCESSORIES SHALL BE PROVIDED AS PART OF THE VACUUM SYSTEM BY THE EQUIPMENT MANUFACTURER. INSTALLATION SHALL COMPLY WITH THE VACUUM SYSTEM MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- SEAL ALL PENETRATIONS THROUGH EXTERIOR WALL WEATHER TIGHT. REFERENCE ARCHITECTURAL DETAILS FOR SEALING OF EXTERIOR WALL.
- PROVIDE COMPRESSED AIR LINE TIED INTO EXISTING COMPRESSED AIR LINE. INSTALL SHUTOFF VALVE, PRESSURE REGULATOR, AND AUTOMATIC DRAIN VALVE ON NEW LINE. INSTALL AUTOMATIC DRAIN VALVE NEAR EXTERIOR WALL. ROUTE CONDENSATE TO FLOOR SINK USED BY EXISTING COMPRESSED AIR SYSTEM.



BID ALTERNATE #2

- COMPRESSED AIR PIPING SHALL BE SLOPED DOWNSTREAM OF AUTOMATIC DRAIN VALVE BACK TO VALVE TO ALLOW ANY CONDENSATE TO DRAIN OUT OF AIR SYSTEM.
- FURNISH AND INSTALL REMOTE START/STOP STATIONS AT LOCATIONS INDICATED ON DRAWINGS. REMOTE START/STOP STATIONS SHALL BE FURNISHED BY VACUUM SYSTEM MANUFACTURER. BASIS OF DESIGN INCLUDES ONE REMOTE START/STOP STATION AT EACH BLAST BOOTH. STATIONS SHALL INCLUDE START/STOP PUSHBUTTONS, RUN STATUS PILOT LIGHT, AND NEMA 4 ENCLOSURE. ALL INTERLOCK WIRING SHALL BE BY ELECTRICAL CONTRACTOR, REFERENCE ELECTRICAL DRAWINGS.
- VACUUM PIPING SYSTEM, INCLUDING PIPE SIZES, FITTINGS, INLET VALVES, BRANCH CONNECTIONS, AND ASSOCIATED ACCESSORIES, SHALL BE DESIGNED AND SIZED BY THE VACUUM SYSTEM MANUFACTURER TO MEET THE PERFORMANCE REQUIREMENTS OF SPECIFICATION SECTION 224000.

GENERAL NOTES

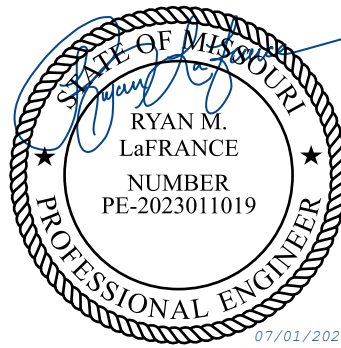
- THE BLAST BOOTH EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S DESIGNATED SOLE SOURCE VENDOR. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE SOLE SOURCE VENDOR'S WORK IN THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SOLE SOURCE VENDOR'S WORK WITH ALL OTHER TRADES, PROVIDING ACCESS TO THE WORK AREA, AND COORDINATING ALL REQUIRED DEMOLITION, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER ANCILLARY WORK NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.
- DEMOLITION OF THE EXISTING BLAST BOOTH EQUIPMENT MAY BE PERFORMED BY THE CONTRACTOR OR THE SOLE SOURCE VENDOR AT THE CONTRACTOR'S OPTION. THE CONTRACTOR'S BID SHALL INCLUDE COST FOR DEMOLITION WHETHER SELF PERFORMED OR BY SOLE SOURCE VENDOR. IF THE CONTRACTOR ELECTS TO SELF-PERFORM THE DEMOLITION, ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE SOLE SOURCE VENDOR'S REQUIREMENTS AND RECOMMENDATIONS TO FACILITATE INSTALLATION OF THE NEW EQUIPMENT. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.
- VACUUM PIPING SIZES AND ROUTING SHOWN ARE BASED ON THE BASIS-OF-DESIGN SYSTEM AND ARE PROVIDED FOR GENERAL COORDINATION. FINAL VACUUM PIPING SIZES, ROUTING, FITTINGS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED AND SIZED BY THE VACUUM SYSTEM MANUFACTURER TO MAINTAIN REQUIRED AIRFLOW, VACUUM LEVELS, AND CONVEYING VELOCITIES AT EACH SANDING STATION.
- ALL CONTROLS WORK SHALL BE COMPATIBLE WITH OWNERS EXISTING TEMPERATURE CONTROLS SYSTEM AND CONTRACTED THROUGH OWNERS PREFERRED TEMPERATURE CONTROLS CONTRACTOR.

CONTROL SERVICE COMPANY INC., LEES SUMMIT, MO (816-600-5800)

KEYED NOTES

- SOLE SOURCE VENDOR SHALL FURNISH AND INSTALL NEW SWEEPER MEDIA RECLAMATION FLOOR AND INSTALL NEW CONTROLS ENCLOSURE IN PLACE OF DEMOLISHED ENCLOSURE. REFERENCE EQUIPMENT DRAWINGS. CONTRACTOR SHALL PROVIDE NEW AND/OR UPDATE EXISTING GRAPHICS IN FACILITY'S BAS FOR MONITORING AND CONTROL OF NEW SOLE SOURCE VENDOR FURNISHED EQUIPMENT.
- SOLE SOURCE VENDOR SHALL FURNISH AND INSTALL NEW BLAST BOOTH CONTROLLER. CONTRACTOR SHALL CONNECT EXISTING AIR HANDLER AND NEW BLAST BOOTH CONTROLLER TO THE EXISTING FACILITY BAS SUCH THAT STARTING OF THE BLAST BOOTH SHALL ENABLE THE BOOTH PRESSURIZATION CONTROL SEQUENCE VIA THE EXISTING AIR HANDLER.
- CONTRACTOR SHALL BALANCE EXISTING DUST COLLECTION EXHAUST FANS VIA THE VFD IN THE NEW BLAST BOOTH CONTROLLER FURNISHED AND INSTALLED BY THE SOLE SOURCE VENDOR. EXHAUST FANS SHALL BE BALANCED TO OPERATE AT 37,500 CFM AND SHALL MODULATE AS NEEDED TO OVERCOME INCREASED FILTER PRESSURE DROP AND MAINTAIN A CONSTANT CFM THROUGH BOOTH.
- SOLE SOURCE VENDOR SHALL FURNISH AND INSTALL NEW CYCLONE ON DIRTY MEDIA HOPPER AND CLEAN MEDIA HOPPER AND ROUTE NEW PNEUMATIC TUBING DOWN TO NEW FLOOR HOPPER. REFERENCE EQUIPMENT DRAWINGS.
- CONTRACTOR SHALL PROVIDE NEW 3/4" COPPER PIPING EXTENSIONS CONNECTED TO EXISTING REGULATOR INSIDE THE BLAST BOOTH. ROUTE PIPING VERTICAL UP THE WALL TO THE CEILING. ROUTE PIPING ON CEILING 5'-0" TOWARDS MIDDLE OF BOOTH. TURN PIPING DOWN AND INSTALL A NIOSH APPROVED BREATHING AIR HOSE TO HANG FROM CEILING. INSTALL HOOK ON WALL TO ALLOW WORKERS TO HANG HOSE ON HOOK. HOSE SHALL BE 100' LONG. COORDINATE EXACT PROPOSED CONFIGURATION WITH OWNER PRIOR TO FINAL INSTALLATION.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



RYAN M. LAFRANCE
License Number: 2022011019
Expiration Date: 12/31/27
CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL LLC. #000329 12/31/27
ENGINEERING LLC. #000613 12/31/27

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

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

ISSUE DATE: 6/15/2026

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

SHEET TITLE:

MECHANICAL
BLAST BOOTH
UPGRADES - NEW

SHEET NUMBER:

M-102

10 OF 15 SHEETS
06/15/2026

MECHANICAL BLASTBOOTH UPGRADE FLOOR PLAN

1

M102

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

ELECTRICAL SYMBOLS (NOT ALL SYMBOLS ARE USED)		
LIGHTING QTY. CKT. (1) 2 FIXT. TYPE SWITCH LP-1a 2' x 4' LIGHT FIXTURE 1' x 4' LIGHT FIXTURE DOWN LIGHT PENDANT LIGHT 90 MIN BATTERY BACK-UP EMERGENCY SIGN WITH LIGHT HEADS 90 MIN BATTERY BACK-UP EXIT SIGN 90 MIN BATTERY BACK-UP EXIT LIGHT WITH HEADS EXTERIOR 90 MIN BATTERY BACK-UP EMERGENCY HEADS FED FROM INTERIOR EXIT LIGHT	CONDUIT CONDUIT CONCEALED IN WALLS OR CEILING CONDUIT UNDER GROUND HOME RUN PANEL AND CKTS GROUND #1/0 CU.	SWITCHES SINGLE POLE SWITCH, 48" AFF TO CENTER UNO, LOWER CASE LETTERING INDICATES SWITCH LEG OCCUPANCY SENSOR HUBBELL # OMNI-US SERIES WITH UV-PP POWER PACK, CEILING MOUNTED. LOWER CASE LETTERING INDICATES SWITCH LEG. WHEN PROVIDED IN COMBINATION WITH WALL SWITCHES, OCCUPANCY SENSOR SHALL BE CIRCUITED ON LINE-SIDE OCCUPANCY SENSOR WALL MOUNTED HUBBELL # LHDT SERIES, LOWER CASE LETTERING INDICATES SWITCH LEG. OCCUPANCY SENSOR 3 WAY WALL MOUNTED # WS2000W LOWER CASE LETTERING INDICATES SWITCH LEG VOLUME CONTROL MOUNTED ON WALL AT 48" AFF
	POWER AND CONTROLS PANELBOARD TRANSFORMER DISCONNECT SWITCH	GENERAL EQUIPMENT CALL OUT ELECT KEYED NOTE DESIGNATION REVISION SYMBOL
MISCELLANEOUS JUNCTION BOX MOUNT ON WALL AT 18" AFF UNO TELEPHONE WALL BOX 18" AFF UNO STUB 3/4" CONDUIT UP INTO ACCESSIBLE CEILING AREA WITH INSULATED BUSHING, PROVIDE PULL WIRE PHONE/DATA WALL BOX 18" AFF UNO STUB 3/4" CONDUIT UP INTO ACCESSIBLE CEILING AREA WITH INSULATED BUSHING, PROVIDE PULL WIRE DATA WALL BOX 18" AFF UNO STUB 3/4" CONDUIT UP INTO ACCESSIBLE CEILING AREA WITH INSULATED BUSHING, PROVIDE PULL WIRE FLOOR MOUNTED PHONE BOX MOTOR PUSH BUTTON MOUNTED ON WALL AT 48" AFF DOOR BUZZER OR BELL PHOTOCELL CEILING PADBLE FAN	RECEPTACLES DUPLEX RECEPTACLE 18" AFF TO CENTER, UNO. QUAD RECEPTACLE 18" AFF TO CENTER, UNO. GFIC DUPLEX RECEPTACLE 18" AFF TO CENTER, UNO GFIC QUAD RECEPTACLE 18" AFF TO CENTER, UNO. FLUSH FLOOR MOUNTED RECEPTACLE SINGLE RECEPTACLE 18" AFF TO CENTER, (CLOCK) UNO. SPECIAL RECEPTACLE	

GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND VERIFY REQUIREMENTS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND SHALL PROVIDE ALL ITEMS REQUIRED BY THESE TRADES FOR A COMPLETE INSTALLATION. IF CONFLICT OCCURS DUE TO THIS CONTRACTORS LACK OF COORDINATION WITH OTHER TRADES, ALL WORK INVOLVED IN RESOLVING THE CONFLICT WILL BE AT THE EXPENSE OF THIS CONTRACTOR.
- B. OVER-CURRENT PROTECTION AND DISCONNECT MEANS SHALL BE INSTALLED ON ALL MOTORS TO COMPLY WITH CODE.
- C. ALL DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED FOR THE MOTOR CONNECTED.
- D. FLUORESCENT AND HID BALLASTS, AND LED DRIVERS SHALL COMPLY WITH ALL APPLICABLE STANDARDS AND CODES.
- E. ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH LATEST NEC AND ALL LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT AMONG REQUIREMENTS, THE MORE RESTRICTIVE SHALL APPLY.
- F. LIGHTING FIXTURES AND ELECTRICAL DEVICES FOR USE OUTSIDE THE BUILDING SHALL BE WEATHERPROOF.
- G. GROUND ELECTRICAL EQUIPMENT PER NEC AND LOCAL CODE REQUIREMENTS.
- H. ALL CONDUCTORS SHALL BE # 12 AWG MINIMUM. EXCEPT AS OTHERWISE NOTED OR AS REQUIRED FOR VOLTAGE DROP. ALL CONDUIT TO BE ONE-HALF INCH (1/2") MINIMUM EXCEPT AS OTHERWISE NOTED.
- I. MEMBRANE PENETRATIONS OF ONE (1) HOUR FIRE BARRIER WALL BY STEEL ELECTRICAL BOXES ARE NOT TO EXCEED SIXTEEN (16) SQUARE INCHES IN AREA, PROVIDED THE AGGREGATE AREA OF THE OPENING THROU THE MEMBRANE DOES NOT EXCEED ONE-HUNDRED (100) SQUARE FEET OF WALL AREA. THE ANNULAR SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT EXCEED ONE-EIGHTH (1/8") OF AN INCH. BOXES ON OPPOSING SIDES OF A PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN TWENTY-FOUR (24") INCHES.
- J. CONTRACTOR TO PROVIDE WARNING CABLE ON ALL ELECTRICAL EQUIPMENT (SWITCH BOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS) TO NOTIFY QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16.
- K. ALL CIRCUITRY IN EXPOSED OPEN CEILING SHALL BE IN METAL CONDUIT PAINTED TO MATCH CEILING, ABSOLUTELY NO ROMEX OR FLEX CONDUIT ALLOWED.

GENERAL

A. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE EXECUTION OF THE WORK.

B. THE WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES TO CONSTRUCT AND INSTALL THE EQUIPMENT AND SYSTEMS NECESSARY TO COMPLETE THE WORK INDICATED ON DRAWINGS.

C. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE FURNISHED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.

D. THE INSTALLATION SHALL COMPLY WITH THE APPLICABLE ORDINANCES OF THE LOCAL AUTHORITIES, ALL STATE REQUIREMENTS, THE REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

E. BEFORE SUBMITTING THE PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND BE SATISFIED AS TO THE NATURE AND LOCATION OF THE WORK AND THE GENERAL CONDITIONS. CONTRACTOR SHALL HAVE FULL KNOWLEDGE AS TO TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF WATER, ELECTRIC POWER AND ALL OTHER FACILITIES IN THE AREA WHICH WILL HAVE A BEARING ON THE PERFORMANCE OF THE WORK AND THE CONTRACT FOR WHICH THE PROPOSAL IS SUBMITTED. FAILURE BY THE CONTRACTOR TO BE ACQUAINTED WITH ALL AVAILABLE INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR PERFORMING THE WORK PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR CONDITIONS INCREASING THE CONTRACTOR'S COST. WHERE THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED DURING THE SITE VISIT.

F. "NIC" MEANS NOT IN CONTRACT. NO NEW WORK.

2. WIRING

A. ALL BUILDING WIRE SHALL BE 600 VOLTS COPPER, TYPE THWN OR THW, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS. THE MINIMUM SIZE CONDUCTOR FOR LIGHTING, POWER AND CONTROL SHALL BE NUMBER 12 AWG.

3. CONDUIT

A. CONDUITS MUST BE RIGID OR INTERMEDIATE METAL CONDUIT (IMC) FROM FINISH FLOOR TO A POINT 5'-0" ABOVE FINISH FLOOR IF EXPOSED, OTHERWISE CONDUIT MAY BE GALVANIZED THIN WALL CONDUIT OR ELECTRO-METALLIC TUBING (EMT). CONDUIT BELOW FLOOR MAY BE PVC. PVC CONDUIT MUST BE COUPLED TO RIGID STEEL BEFORE RISING THRU SLAB. PVC NOT PERMITTED ABOVE SLAB.

B. PROVIDE EXPLOSION-PROOF ELECTRICAL EQUIPMENT, CONDUIT FITTINGS, SEALING FITTINGS, BOXES, AND ACCESSORIES WITHIN THE ABRASIVE BLAST BOOTH AND ASSOCIATED HAZARDOUS LOCATIONS. HAZARDOUS AREAS SHALL BE CLASSIFIED AS CLASS II, DIVISION 1 WITHIN THE BLAST ENCLOSURE AND CLASS II, DIVISION 2 IN ADJACENT AREAS WHERE COMBUSTIBLE DUST MAY BE PRESENT UNDER ABNORMAL OPERATING CONDITIONS, UNLESS OTHERWISE INDICATED BY THE OWNER'S HAZARDOUS LOCATION ASSESSMENT. ALL EQUIPMENT INSTALLED WITHIN CLASSIFIED AREAS SHALL BE LISTED AND LABELED FOR THE APPLICABLE HAZARDOUS CLASSIFICATION. INSTALL SEALING FITTINGS AND WIRING METHODS IN ACCORDANCE WITH NEC ARTICLES 500, 502, AND EQUIPMENT MANUFACTURER REQUIREMENTS.

C. CONDUIT IS TO BE RUN EITHER PARALLEL OR PERPENDICULAR TO ONE SIDE OF BUILDING, AND AS HIGH AS POSSIBLE. CONCEALED ABOVE THE CEILING, WHERE CONDUIT CANNOT BE CONCEALED ABOVE THE CEILING, CONTRACTOR SHALL NOTIFY OWNER FOR DIRECTION. CONDUIT SHALL NOT BE ROUTED EXPOSED ABOVE THE ROOF DECK.

D. COMMERCIAL METAL DEVICES THAT WILL HOLD PERMANENTLY SHALL BE USED IN ANCHORING CONDUIT TO MASONRY OR CONCRETE. WOODEN PLUGS WILL NOT BE PERMITTED, AND THE ROOF DECK SHALL NOT BE PENETRATED.

E. ALL CONDUIT SHALL BE MINIMUM 1/2", UNLESS OTHERWISE NOTED, AND AS REQUIRED BY THE NEC CONDUIT FILL TABLES.

F. THE USE OF ROMEX SHALL NOT BE PERMITTED.

G. FINAL CONNECTION TO ROOF TOP EQUIPMENT MAY BE MADE WITH FLEXIBLE CONDUIT PER CODE

H. IF ROOF PENETRATIONS ARE REQUIRED TO SERVICE THE RTUS, THE CONTRACTOR SHALL EMPLOY A ROOFING CONTRACTOR. PROVIDE WEATHER TIGHT PITCH POCKETS AND EXTEND GRS CONDUIT AND SEAL TIGHT TO RTU DISCONNECTS ETC..

4. POWER EQUIPMENT

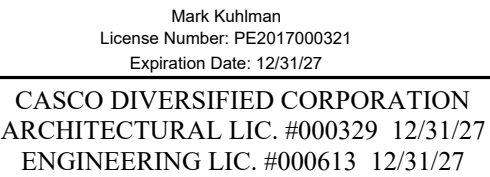
A. ALL NEW POWER EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.

B. NEW PANEL BOARD SHALL BE SQUARE 'D' I-LINE SERIES, EATON, GE, OR SIEMENS.

C. SAFETY SWITCHES SHALL BE NEMA 3R, HEAVY DUTY, AS MANUFACTURED BY SQUARE 'D', EATON, GE, OR SIEMENS.

5. POWER

A. THE CONTRACTOR SHALL PROVIDE ALL POWER DEVICES AS SHOWN ON THE DRAWINGS, IN COMPLIANCE WITH ALL OTHER NOTES SHOWN ON THE DRAWINGS, AND CONNECT AS SHOWN ON THE DRAWINGS.



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

SPRINGFIELD AVCRAD - REPLACE BLAST BOOTHS

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

CAD DWG FILE:
DRAWN BY: AJS
CHECKED BY: DAT
DESIGNED BY: KJC

SHEET NUMBER

12 OF 13 SHEETS
06/15/2026

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	VOLTAGE	WATTAGE	QTY.
F1A	Blast Booth Lighting. Recessed mount industrial LED fixture. 17" x 4". Approximately 21,000Lm. 4000K.	277V	172W	58
F1B	Blast Booth Lighting. Recessed mount industrial LED fixture. 17" x 4". Approximately 21,000Lm. 4000K. Provided with emergency battery back up.	277V	172W	2
F2	Red Jelly Jar In Use Light. Wall mounted. Approximately 1,200Lm. Red lens with vapor tight enclosure.	120V	16W	12

Electrical Equipment for a
AVCRAD Blast Booth

460vac 3 phase w/Neutral	L1	L2	L3
7.5 HP motor Cyclone 1	11	11	11
7.5 HP motor Cyclone 2	11	11	11
40 Hp motor Dust Collector #1 @ 125%	65	65	65
40 HP motor Dust Collector #2	52	52	52
1/2 HP motor Primary Rotary Valve 1	1	1	1
1/2 HP motor Secondary Rotary Valve 2	1	1	1
1 HP motor Vibratory Sieve	1.8	1.8	1.8
2 HP Sweeper Section 1	3.4	3.4	3.4
2 HP Sweeper Section 2	3.4	3.4	3.4
2 HP Sweeper Section 3	3.4	3.4	3.4
2 HP Sweeper Section 4	3.4	3.4	3.4
2 HP Sweeper Section 5	3.4	3.4	3.4
2 HP Sweeper Section 6	3.4	3.4	3.4
2 HP Sweeper Section 7	3.4	3.4	3.4
2 HP Transversal Sweeper	3.4	3.4	3.4
60 booth lights	20	20	20
Control Transformer 5 KVA	15		15
Total 460vac 3 phase load	205	190	205
Recommended 460VAC 3 Phase Circuit	Qty	AMPS	
460 vac 3 phase with a Neutral and 100% circuit breaker	1	225	

DEMO KEYED NOTES

- EXISTING PNEUMATIC VACUUM TO BE REMOVED. EC SHALL DISCONNECT AND REMOVE WIRING AND CONDUIT BACK TO SOURCE PANEL.
- EXISTING BLAST BOOTH CONTROL PANEL TO BE REPLACED. EC SHALL DISCONNECT PANEL TO MAKE SAFE AND MAINTAIN EXISTING CIRCUITING FOR RECONNECTION WITH NEW PANEL.
- EC SHALL DISCONNECT AND REMOVE 60 EXISTING BLAST BOOTH LIGHT FIXTURES. MAINTAIN EXISTING WIRING AND MAKE SAFE FOR RECONNECTION WITH NEW LED BLAST BOOTH LIGHTING.
- EXISTING EXHAUST DUST COLLECTOR FANS TO REMAIN. EC SHALL DISCONNECT WIRING AT CONTROL PANEL AND MAINTAIN WIRING FOR RECONNECTION WITH NEW VFD IN NEW CONTROL PANEL.
- EC SHALL DISCONNECT MEDIA RECLAMATION EQUIPMENT FROM CONTROL PANEL. MAINTAIN EXISTING WIRING FOR RECONNECTION WITH NEW PANEL.
- EXISTING BLAST BOOTH COILING DOOR TO BE DEMOLISHED. DISCONNECT EXISTING DOOR MOTOR AND MAKE SAFE. MAINTAIN EXISTING CIRCUITING FOR RECONNECTION WITH NEW MOTOR.
- EXISTING MEDIA RECLAMATION FLOOR MOTOR AND BRANCH CIRCUITING SHALL BE DEMOLISHED.

BID ALTERNATE #2

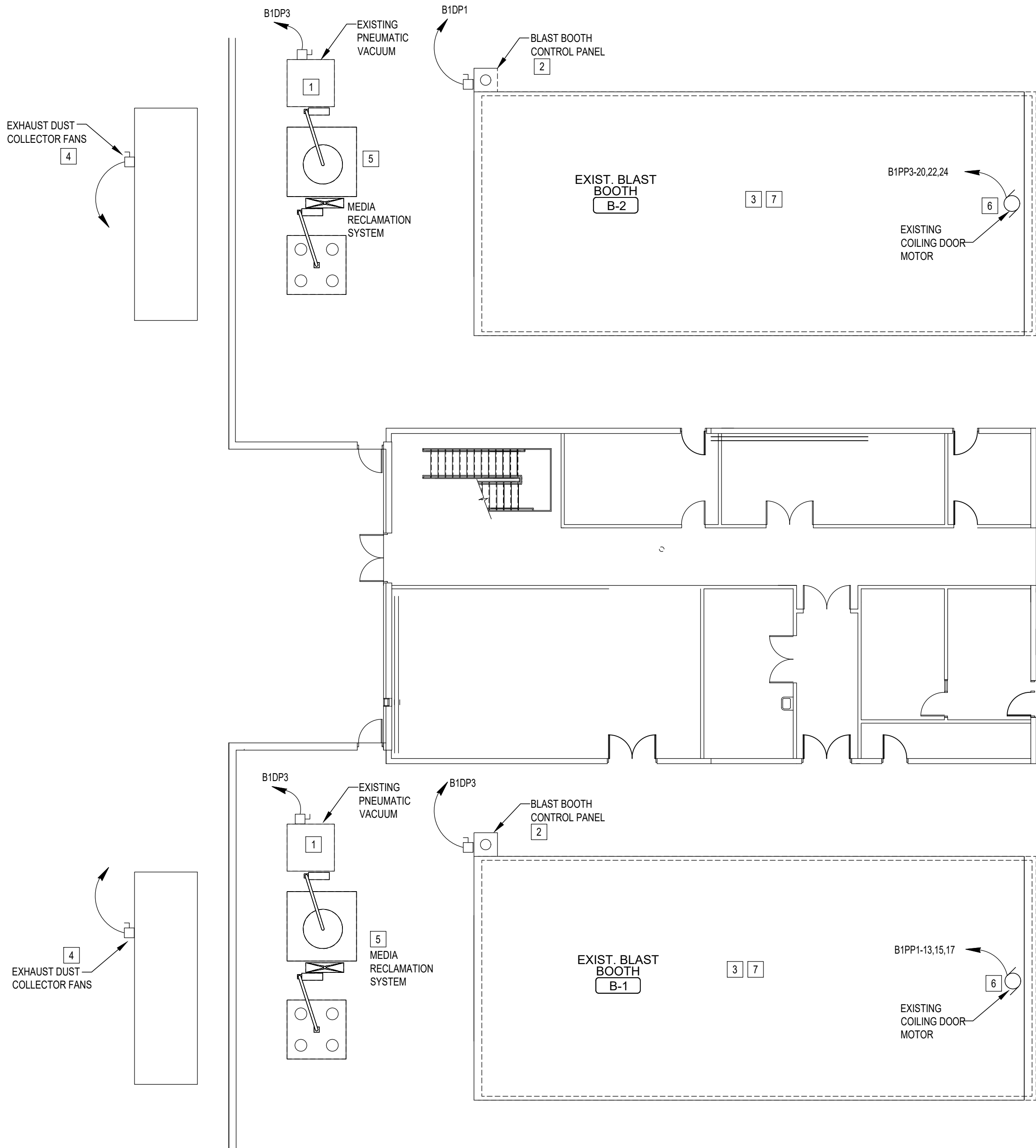
- A. EC SHALL PROVIDE NEW 100A, 3PH CIRCUIT BREAKER AND 4 #3 & 1 #6 GRD, 1-1/4" C. FOR NEW CENTRAL VACUUM SYSTEM. BRANCH CIRCUIT WIRING SHALL BE TERMINATED AT B1DP3 AND 100A FUSED DISCONNECT SWITCH FURNISHED WITH UNIT. COORDINATE WITH VACUUM SYSTEM PROVIDER AND INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS.
- B. PROVIDE INTERLOCK WIRING FOR REMOTE START / STOP STATION FOR CENTRAL VACUUM CONTROL PANEL. EC SHALL INSTALL PANEL AND MC SHALL FURNISH CONTROL PANEL. REFERENCE MECHANICAL DRAWINGS FOR LOCATIONS.

GENERAL NOTES

- a. THE BLAST BOOTH EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S DESIGNATED SOLE SOURCE VENDOR. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE SOLE SOURCE VENDOR'S WORK IN THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SOLE SOURCE VENDOR'S WORK WITH ALL OTHER TRADES, PROVIDING ACCESS TO THE WORK AREA, AND COORDINATING ALL REQUIRED DEMOLITION, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER ANCILLARY WORK NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.
- b. DEMOLITION OF THE EXISTING BLAST BOOTH EQUIPMENT MAY BE PERFORMED BY THE CONTRACTOR OR THE SOLE SOURCE VENDOR AT THE CONTRACTOR'S OPTION. IF THE CONTRACTOR ELECTS TO SELF-PERFORM THE DEMOLITION, ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE SOLE SOURCE VENDOR'S REQUIREMENTS AND RECOMMENDATIONS TO FACILITATE INSTALLATION OF THE NEW EQUIPMENT. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.

KEYED NOTES

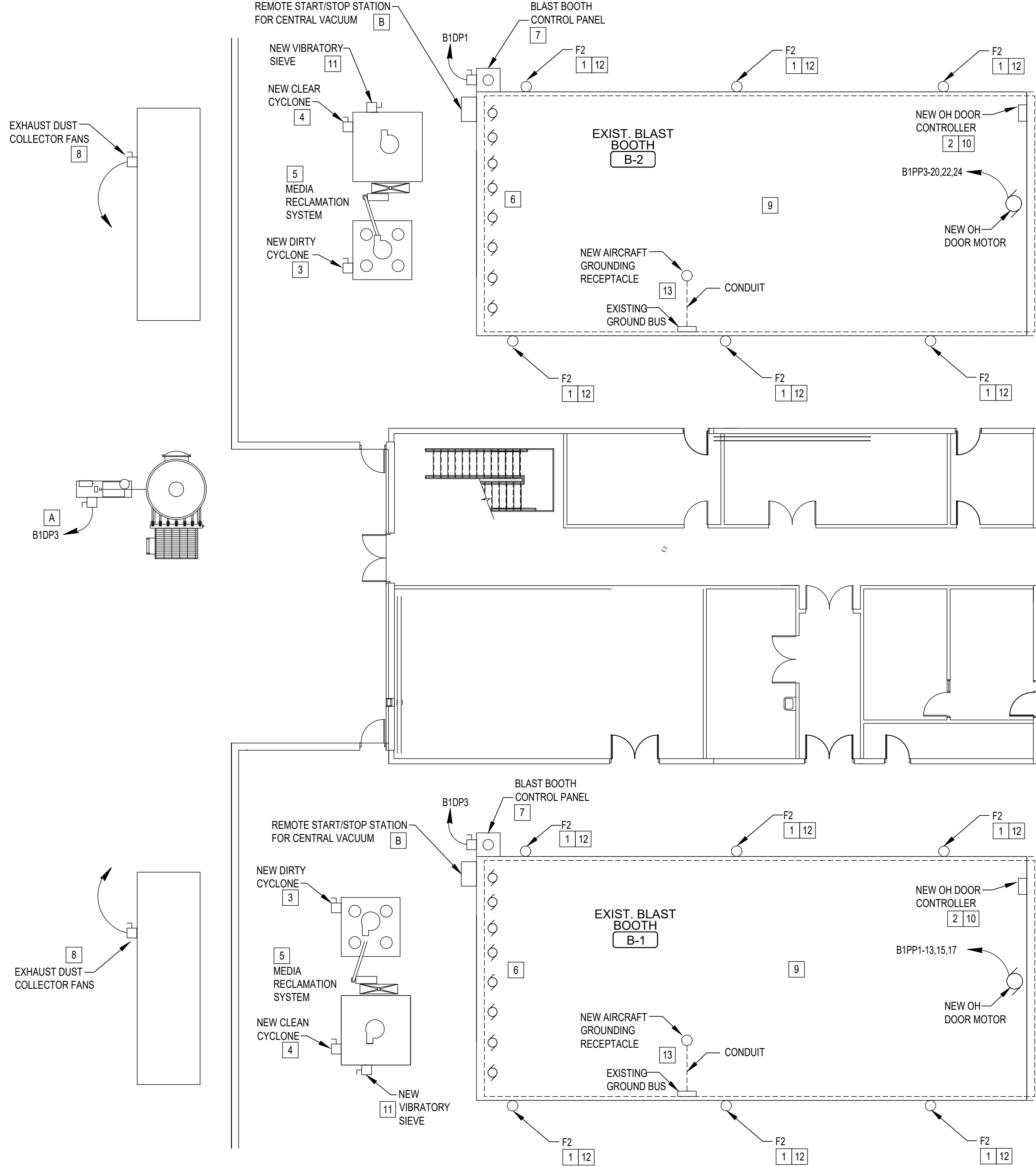
- INSTALL NEW TYPE F2 RED LIGHT 8" ABOVE DOOR FROM BOTTOM OF FIXTURE. RED LIGHT SHALL BE ENERGIZED WHEN THE BOOTH IS IN OPERATION. COORDINATE WITH BLAST BOOTH EQUIPMENT PROVIDER AFC FOR WIRING REQUIREMENTS TO INTEGRATE LIGHTS WITH CONTROL PANEL.
- EC SHALL INSTALL NEW OVERHEAD DOOR INTERLOCK SWITCH. PROVIDE WIRING FROM SWITCH TO BLAST BOOTH CONTROL PANEL TO DISABLE BLAST BOOTH OPERATION WHEN DOOR IS OPENED. COORDINATE WITH AFC AND OVERHEAD DOOR PROVIDER FOR EXACT REQUIREMENTS TO INTEGRATE INTERLOCK SWITCHES WITH CONTROL PANEL.
- EC SHALL PROVIDE NEW CONDUIT AND WIRING FROM NEW BLAST BOOTH CONTROL PANEL TO NEW 7.5HP DIRTY MEDIA CYCLONE. COORDINATE WITH AFC WIRING DIAGRAM AND INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS.
- EC SHALL RECONNECT EXISTING CYCLONE WIRING FROM NEW BLAST BOOTH CONTROL PANEL TO NEW 7.5 HP CLEAN MEDIA CYCLONE. COORDINATE WITH AFC WIRING DIAGRAM AND INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS.
- EC SHALL RECONNECT (2) EXISTING ROTARY VALVES WIRING TO NEW CONTROL PANEL. COORDINATE WITH AFC WIRING DIAGRAM AND INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS.
- EC SHALL PROVIDE WIRING FOR (8) NEW 2HP MOTORS WIRED TO NEW CONTROL PANEL FOR MEDIA RECLAMATION SWEEPER SYSTEM. COORDINATE WITH AFC WIRING DIAGRAM AND INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS.
- EC SHALL CONNECT NEW CONTROL PANEL TO EXISTING POWER FEED. COORDINATE WITH AFC FOR EXACT WIRING REQUIREMENTS.
- EC SHALL RECONNECT EXISTING WIRING FROM EXHAUST DUST COLLECTOR FANS TO NEW VFDs LOCATED IN NEW BLAST BOOTH CONTROL PANEL. COORDINATE WITH AFC FOR EXACT REQUIREMENTS.
- EC SHALL INSTALL (8) NEW TYPE F1A LED BLAST BOOTH LIGHT FIXTURES. RECONNECT EXISTING WIRING TO FIXTURE AND TO NEW CONTROL PANEL. COORDINATE WITH AFC WIRING DIAGRAM AND INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS. EC SHALL INSTALL (2) NEW TYPE F1B FIXTURES AND RECONNECT EXISTING NIGHT LIGHT CIRCUIT TO FIXTURES.
- EC SHALL MAINTAIN EXISTING COILING DOOR WIRING AND EXTEND IF NEEDED FOR RECONNECTION WITH NEW 480V, 3PH HIGH SPEED OVERHEAD (OH) DOOR MOTOR. PROVIDE CONTROL WIRING FROM MOTOR TO OH DOOR CONTROLLER. COORDINATE WITH OH DOOR PROVIDER FOR EXACT REQUIREMENTS.
- EC SHALL RECONNECT EXISTING VIBRATORY SIEVE WIRING FROM NEW BLAST BOOTH CONTROL PANEL TO NEW VIBRATORY SIEVE. COORDINATE WITH AFC WIRING DIAGRAM AND INSTALLATION INSTRUCTIONS FOR EXACT REQUIREMENTS.
- EC SHALL RECONNECT EXISTING WIRING FROM EXISTING DOOR INTERLOCK SWITCHES TO NEW BLAST BOOTH CONTROL PANEL TO DISABLE BLAST BOOTH OPERATION WHEN DOOR IS OPENED. COORDINATE WITH AFC FOR EXACT REQUIREMENTS TO INTEGRATE INTERLOCK SWITCHES WITH CONTROL PANEL.
- EC SHALL MODIFY AIRCRAFT GROUNDING METHOD TO REPLICATE GROUNDING METHOD IN ADJACENT PAINT BOOTH. ROUTE CONDUIT FROM GROUNDING BUS THROUGH CONCRETE FLOOR AND UNDER BLAST BOOTH STRUCTURAL STEEL 6 FT FROM WALL. EC SHALL INSTALL A RECESSED AIRCRAFT GROUNDING ROB CONNECTION POINT IN STEEL GRATE FLOOR. EC SHALL CONNECT GROUND WIRE TO GROUNDING BUS AND CONNECT TO GROUNDING ROD TO VERIFY CONSTRUCTION. UPON REINSTALLATION OF STEEL GRATE FLOOR. COORDINATE WITH EXISTING STEEL FLOOR SUPPORTS AND NEW MEDIA SWEEPER SYSTEM TO CONFIRM CONSTRUCTABILITY.



1
E-101

ELECTRICAL BLASTBOOTH UPGRADE DEMOLITION PLAN

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



2
E-101

ELECTRICAL BLASTBOOTH UPGRADE FLOOR PLAN

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

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



Mark Kuhlman
License Number: PE2017000321
Expiration Date: 12/31/27
CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL LLC. #000329 12/31/27
ENGINEERING LLC. #000613 12/31/27

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 6/15/2026

CAD DWG FILE:
DRAWN BY: AJS
CHECKED BY: DAT
DESIGNED BY: KJC

SHEET TITLE:

ELECTRICAL
BLAST BOOTH
UPGRADES

SHEET NUMBER:

E-101

13 OF 13 SHEETS
06/15/2026

FOR REFERENCE
ONLY

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL L.I.C. #000329 12/31/27
ENGINEERING L.I.C. #000613 12/31/27

CASCO MEI

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

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

ISSUE DATE: 6/15/2026

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

SHEET TITLE:
BLAST BOOTH
EQUIPMENT

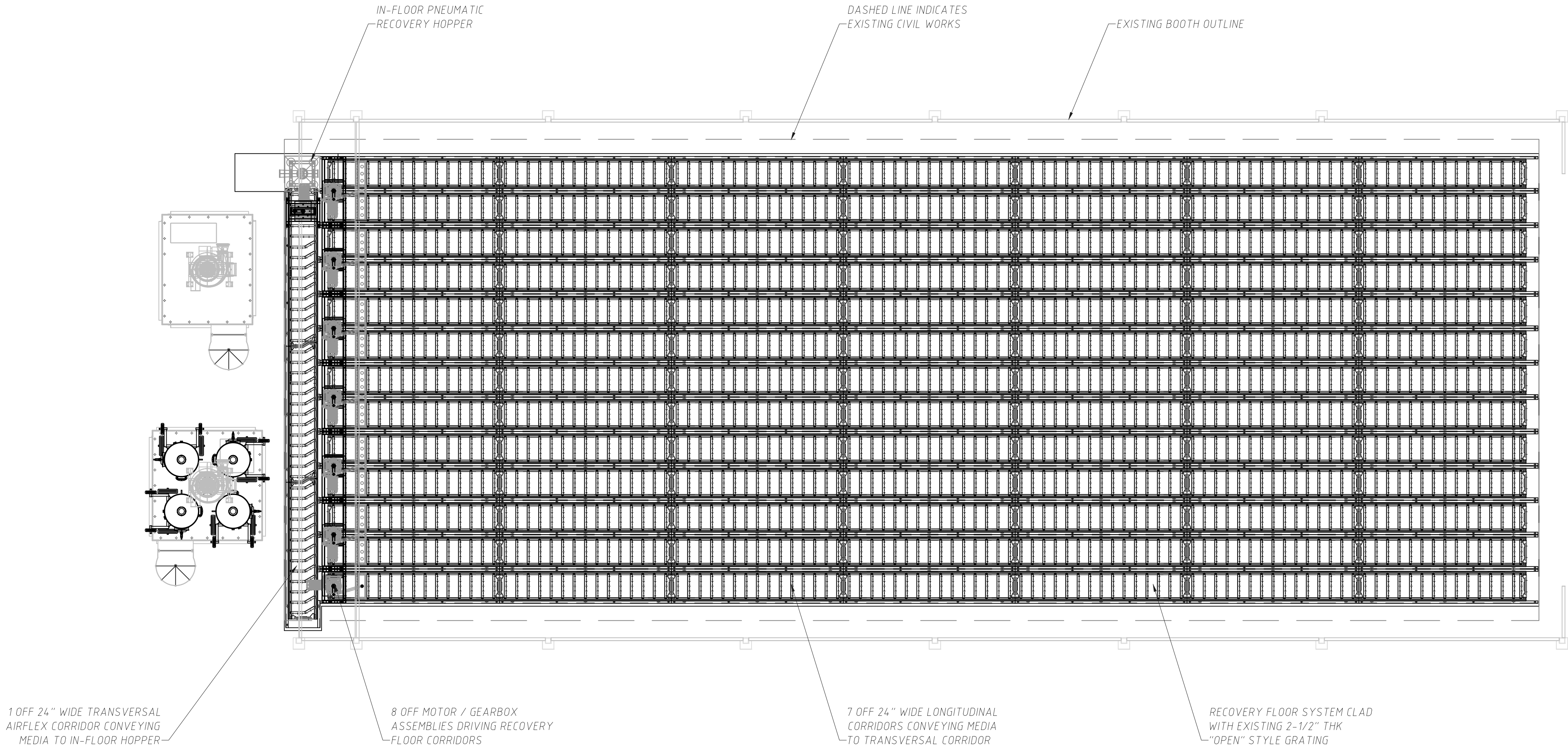
SHEET NUMBER:

EQ-001

13 OF 15 SHEETS
06/15/2026

CONSTRUCTION NOTES:

1. THE ELECTRICAL CONTRACTOR, DOOR SUPPLIER, OWNER, AND AFC SHALL FULLY COORDINATE THE PHYSICAL MOUNTING LOCATION OF THE NEW DOOR CONTROLLER AND OVERHEAD MOTOR TO ENSURE THEY CLEAR THE BLAST BOOTH CLEAR WORKING AREA AND REPLACEMENT FILTER ACCESS DOORS.
2. THE OVERHEAD DOOR FABRIC AND ALL SEALING GASKETS SPECIFIED IN THE SCHEDULE MUST BE CERTIFIED BY THE MANUFACTURER AS HIGH-ABRASION RESISTANT AND RATED FOR THE CONCENTRATED DUST ENVIRONMENTS.
3. THE BLAST BOOTH EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S DESIGNATED SOLE SOURCE VENDOR. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE SOLE SOURCE VENDOR'S WORK IN THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SOLE SOURCE VENDOR'S WORK WITH ALL OTHER TRADES, PROVIDING ACCESS TO THE WORK AREA, AND COORDINATING ALL REQUIRED DEMOLITION, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER ANCILLARY WORK NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.



REV.	DESCRIPTION	DATE	BY
			JPM



250 AIRPORT PARKWAY, OROVILLE, CA 95965
(800) 331-7744 (530) 533-0179 (FAX)
http://www.afc-ca.com email: sales@afc-ca.com

THIS DRAWING IS THE PROPERTY OF AFC FINISHING SYSTEMS AND IS NOT TO BE LOANED, COPIED OR REPRODUCED UNLESS IN DIRECT CONNECTION WITH AFC FINISHING SYSTEMS. ALL RIGHTS RESERVED. THIS DRAWING MUST BE RETURNED UPON REQUEST BY AFC FINISHING SYSTEMS.

DRAWN FOR:

AVCRAD

DESCRIPTION:

AUTOMATIC SWEEPER FLOOR RECOVERY SYSTEM

DRAWN BY: JPM	CHECKED BY:	APPROVED BY:	DATE:
INSTALLED BY:	FIELD CHANGED BY:	SCALE: 1:50	DRAWING NAME: JPM37222 REV 0

FOR REFERENCE
ONLY

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL L.L.C. #000329 12/31/27
ENGINEERING L.L.C. #000613 12/31/27

CASCO MEI

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

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
NATIONAL GUARD

SPRINGFIELD
AVCRAD - REPLACE
BLAST BOOTHS

AVCRAD
CORROSION CONTROL
FACILITY
2501 N. LESTER JONES AVE
SPRINGFIELD, MO 65803

PROJECT # T2332-01
SITE # 6270
ASSET # 8136270007

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

ISSUE DATE: 6/15/2026

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

SHEET TITLE:
BLAST BOOTH
EQUIPMENT

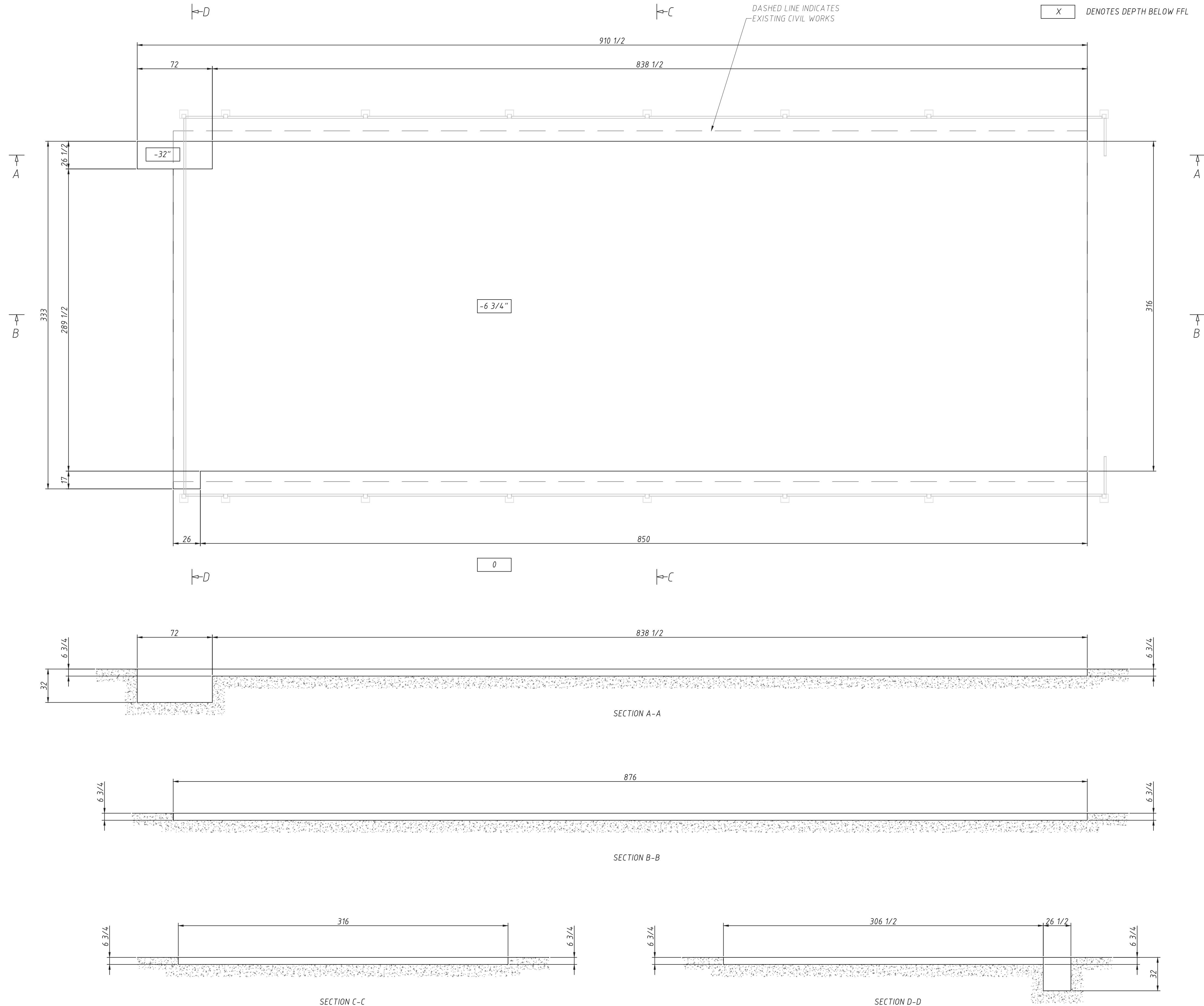
SHEET NUMBER:

EQ-002

14 OF 15 SHEETS
06/15/2026

CONSTRUCTION NOTES:

- THE ELECTRICAL CONTRACTOR, DOOR SUPPLIER, OWNER, AND AFC SHALL FULLY COORDINATE THE PHYSICAL MOUNTING LOCATION OF THE NEW DOOR CONTROLLER AND OVERHEAD MOTOR TO ENSURE THEY CLEAR THE BLAST BOOTH CLEAR WORKING AREA AND REPLACEMENT FILTER ACCESS DOORS.
- THE OVERHEAD DOOR FABRIC AND ALL SEALING GASKETS SPECIFIED IN THE SCHEDULE MUST BE CERTIFIED BY THE MANUFACTURER AS HIGH-ABRASION RESISTANT AND RATED FOR THE CONCENTRATED DUST ENVIRONMENTS.
- THE BLAST BOOTH EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S DESIGNATED SOLE SOURCE VENDOR. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE SOLE SOURCE VENDOR'S WORK IN THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SOLE SOURCE VENDOR'S WORK WITH ALL OTHER TRADES, PROVIDING ACCESS TO THE WORK AREA, AND COORDINATING ALL REQUIRED DEMOLITION, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER ANCILLARY WORK NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION. REFERENCE SPECIFICATION SECTION 116513 AND EQUIPMENT DRAWINGS.



REV.	DESCRIPTION	DATE	BY
			JPM
AIRBLAST AFC 250 AIRPORT PARKWAY, OROVILLE, CA 95965 (800) 331-7744 (530) 533-0179 (FAX) http://www.afc-ca.com email: sales@afc-ca.com THIS DRAWING IS THE PROPERTY OF AFC FINISHING SYSTEMS AND IS NOT TO BE LOANED, COPIED OR REPRODUCED UNLESS IN DIRECT CONNECTION WITH AFC FINISHING SYSTEMS. ALL RIGHTS RESERVED. THIS DRAWING MUST BE RETURNED UPON REQUEST BY AFC FINISHING SYSTEMS.			
DRAWN FOR: AVCRAD			
DESCRIPTION: CONCEPTUAL CIVIL DETAILS			
DRAWN BY: JPM	CHECKED BY:	APPROVED BY:	DATE:
INSTALLED BY:	FIELD CHANGED BY:	SCALE: 1:50	DRAWING NAME: JPM37223 REV 0

