RENOVATE COMBINED SUPPORT MAINTENANCE SHOP (CSMS) ANNEX 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
PROJECT MANAGEMENT:	OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION
APPLICABLE CODES:	2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL EXISTING BUILDING CODE 2020 NATIONAL ELECTRICAL CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FUEL GAS CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
DESIGNER:	CASCO DIVERSIFIED CORPORATION
PROJECT NUMBER:	T2122-01
SITE NUMBER: ASSET NUMBER:	6300 8136300017

G-001

C-001

C-101

C-102

C-501

C-502

S-001

S-101

A-002

A-101

A-102

A-103

A-201

A-401

A-501

A-601

P-101

P-102 P-501

M-101

M-102

M-103

M-501 M-601

E-101

E-102

E-103

E-601

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)



VICINITY MAP

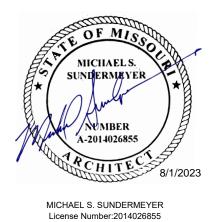
ADDRESS: 2302 MILITIA DRIVE JEFFERSON CITY, MO 65101



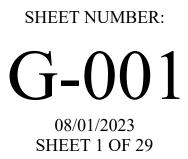
SHEET INDEX

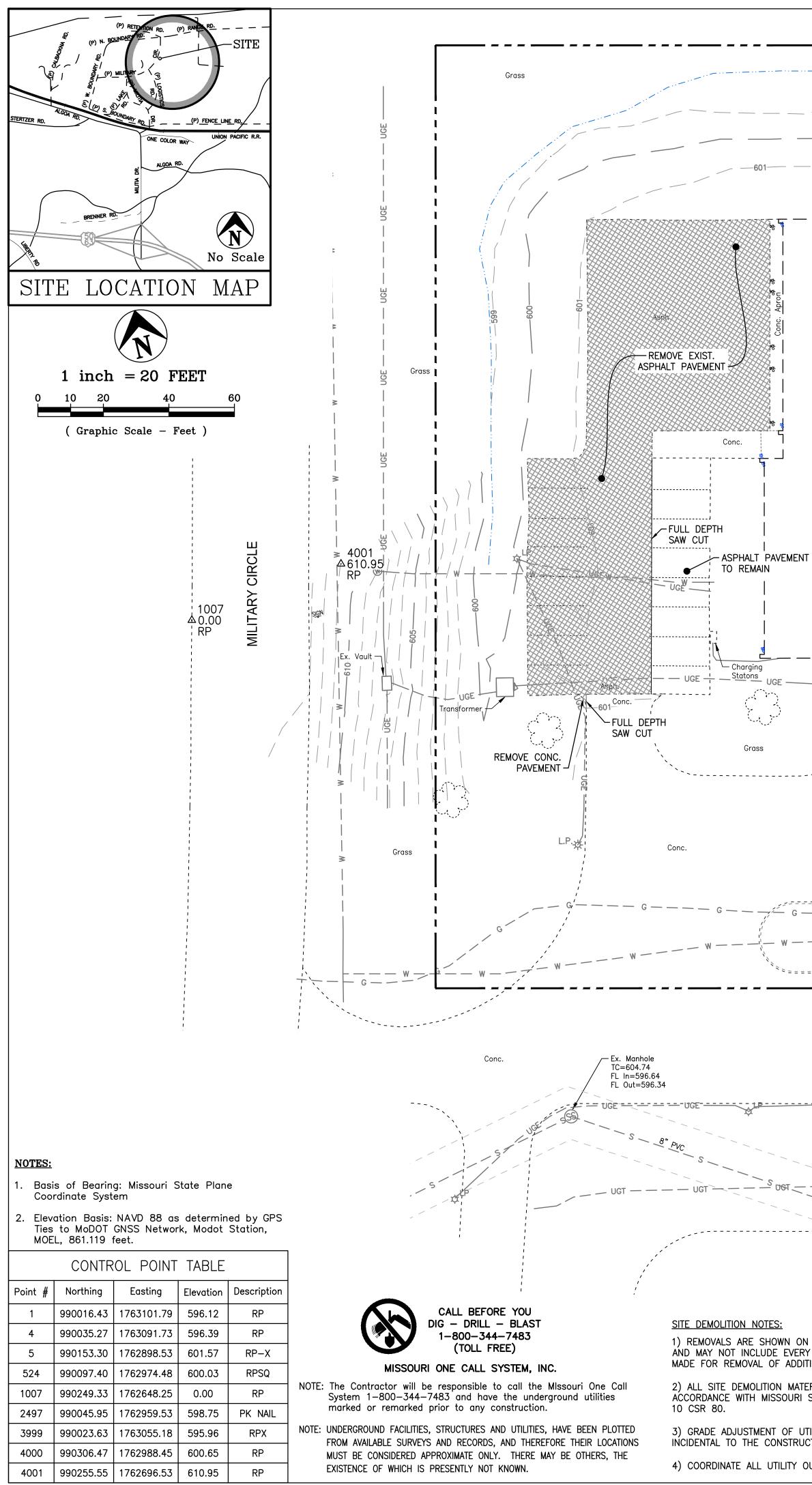
COVER SHEET

- TOPOGRAPHIC SURVEY AND DEMOLITION PLAN SITE PLAN GRADING AND EROSION CONTROL PLAN EROSION CONTROL DETAILS SITE PLAN DETAILS
- STRUCTURAL GENERAL NOTES STRUCTURAL PARTIAL PLAN & DETAILS
- A-001 ARCHITECTURAL SITE PLAN CODE DATA, EGRESS FLOOR PLAN, NOTES AND SYMBOLS DEMO FLOOR AND REFLECTED CEILING PLANS FLOOR PLAN AND REFLECTED CEILING PLANS **ROOF PLAN AND DETAILS** EXTERIOR ELEVATIONS **ENLARGED PLANS & INTERIOR ELEVATIONS** PARTITION TYPES AND DETAILS SCHEDULES AND LEGENDS
 - PLUMBING FLOOR PLAN & SCHEDULES ENLARGED PLUMBING FLOOR PLANS PLUMBING DETAILS
 - MECHANICAL DEMOLITION PLANS MECHANICAL FLOOR PLAN MECHANICAL ROOF PLAN MECHANICAL DETAILS MECHANICAL SCHEDULES
 - ELECTRICAL DEMO FLOOR PLAN ELECTRICAL LIGHTING FLOOR PLAN ELECTRICAL POWER FLOOR PLAN ELECTRICAL LEGEND AND SCHEDULES



Expiration Date: 12/31/24

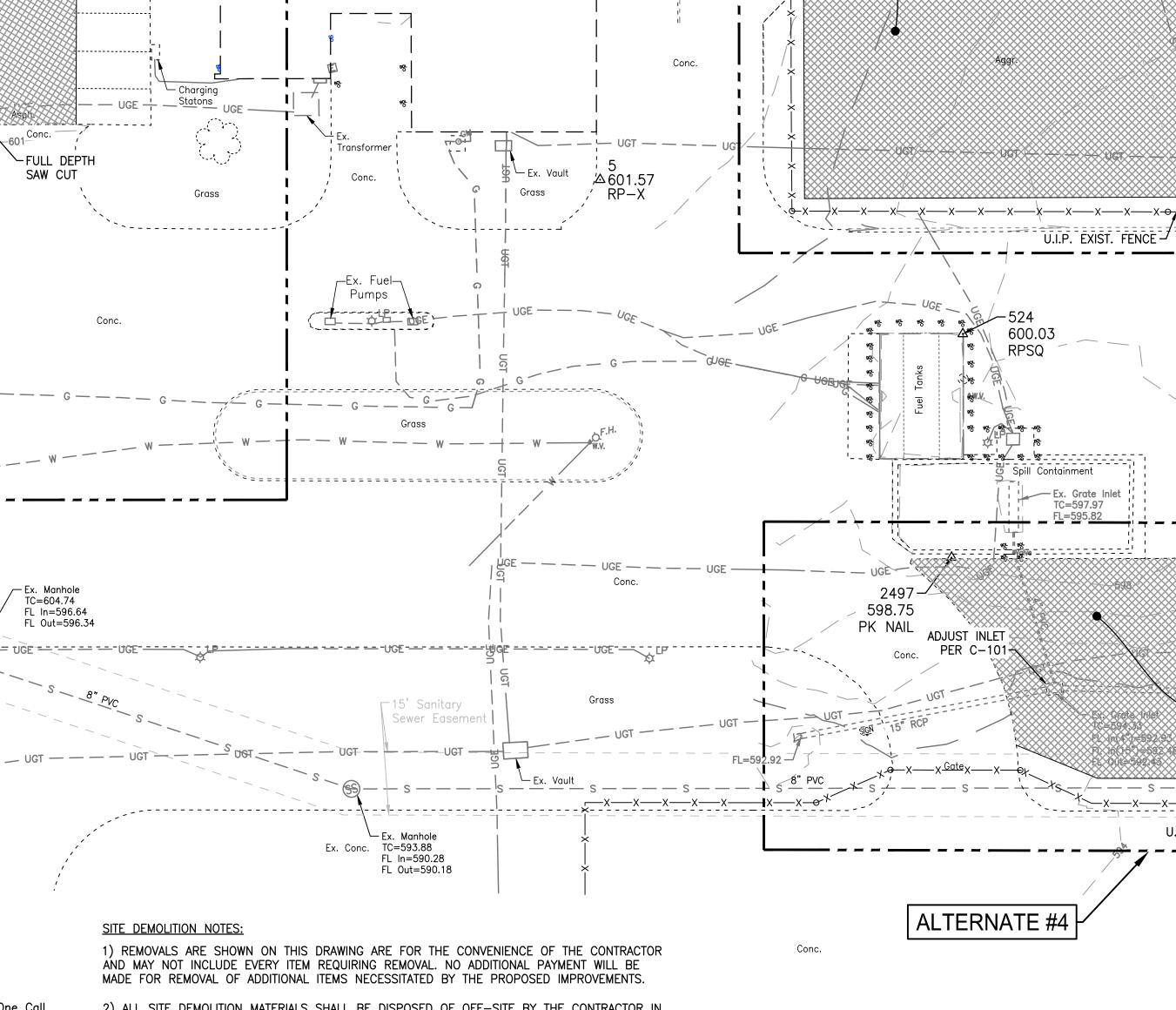




4) COORDINATE ALL UTILITY OUTAGES WITH UTILITY COMPANY AND OWNER.

3) GRADE ADJUSTMENT OF UTILITY FACILITY COVERS AND LIDS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION.

2) ALL SITE DEMOLITION MATERIALS SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH MISSOURI SOLID WASTE MANAGEMENT LAW AND IMPLEMENTING REGULATIONS,





U.I.P. EXIST. FENCE

Sanitary Sewer Easement

18" HDPE -F_L =595.16

RELOCATE LIGHT

POLE PER C-101-

4000 △600.65

RP

__ _ _ _ _ _ _ _ _

_ _ _ _ _ _ _

Conc.

o–

_0—X___0

ALTERNATE #3

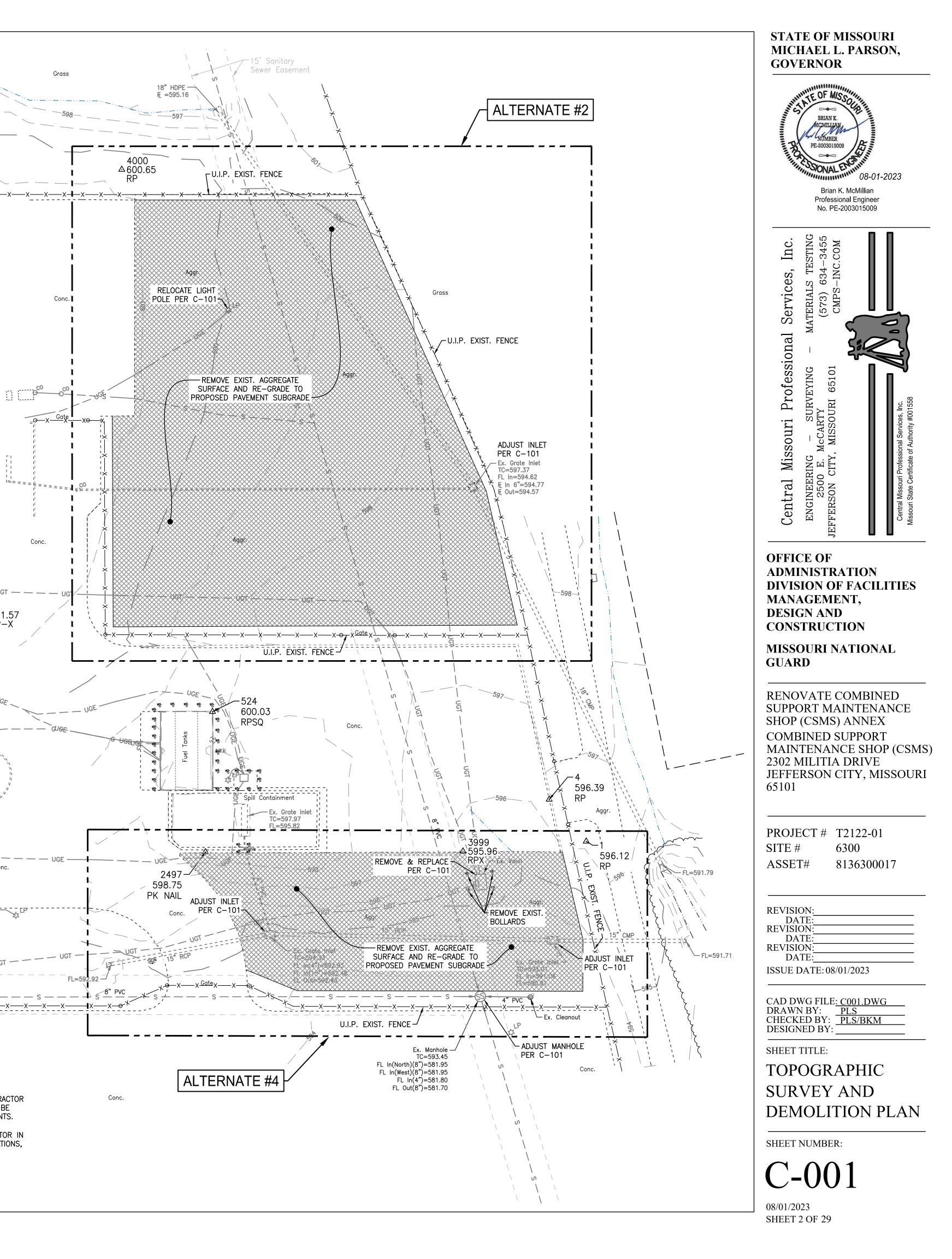
CSMS ANNEX

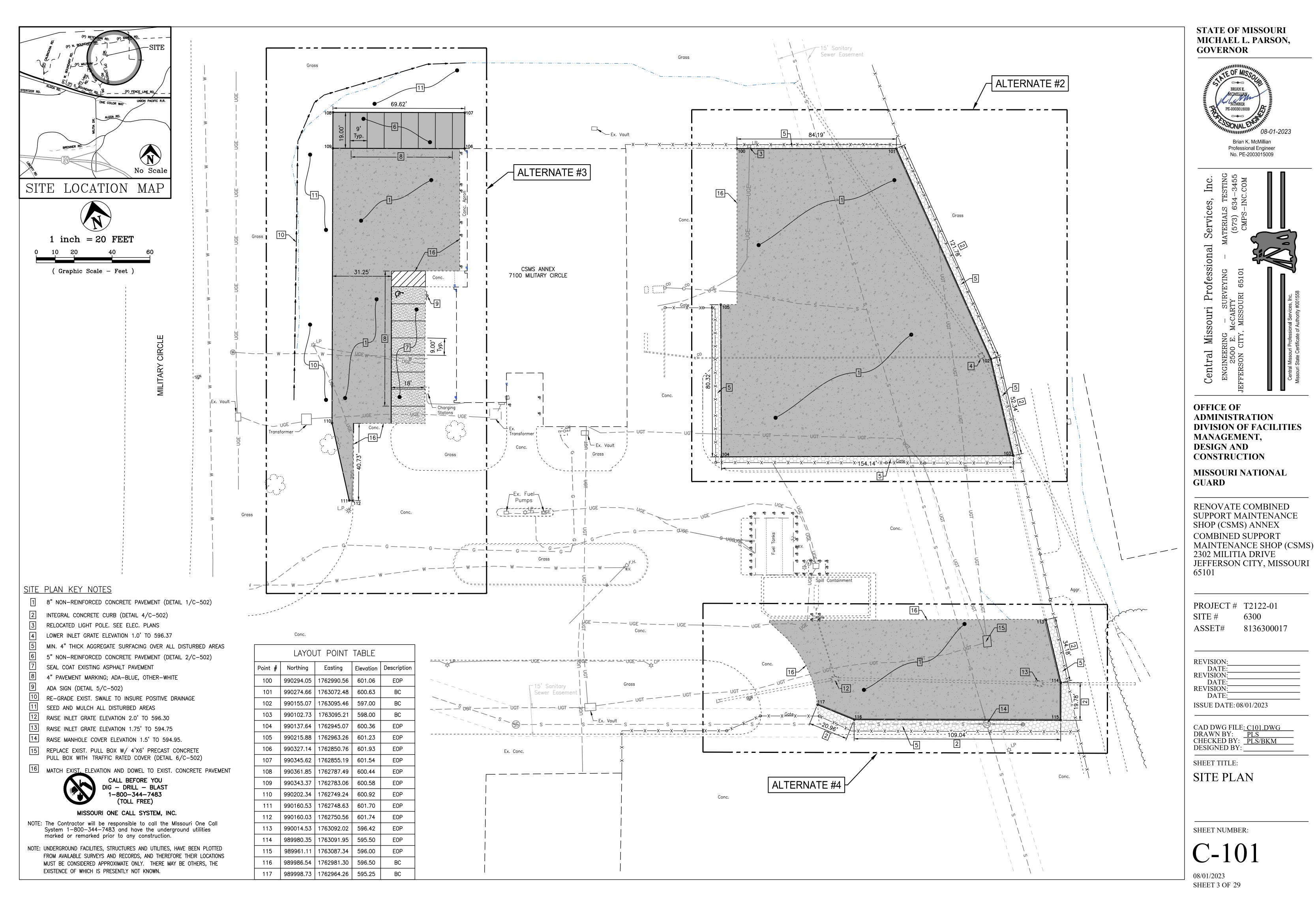
7100 MILITARY CIRCLE

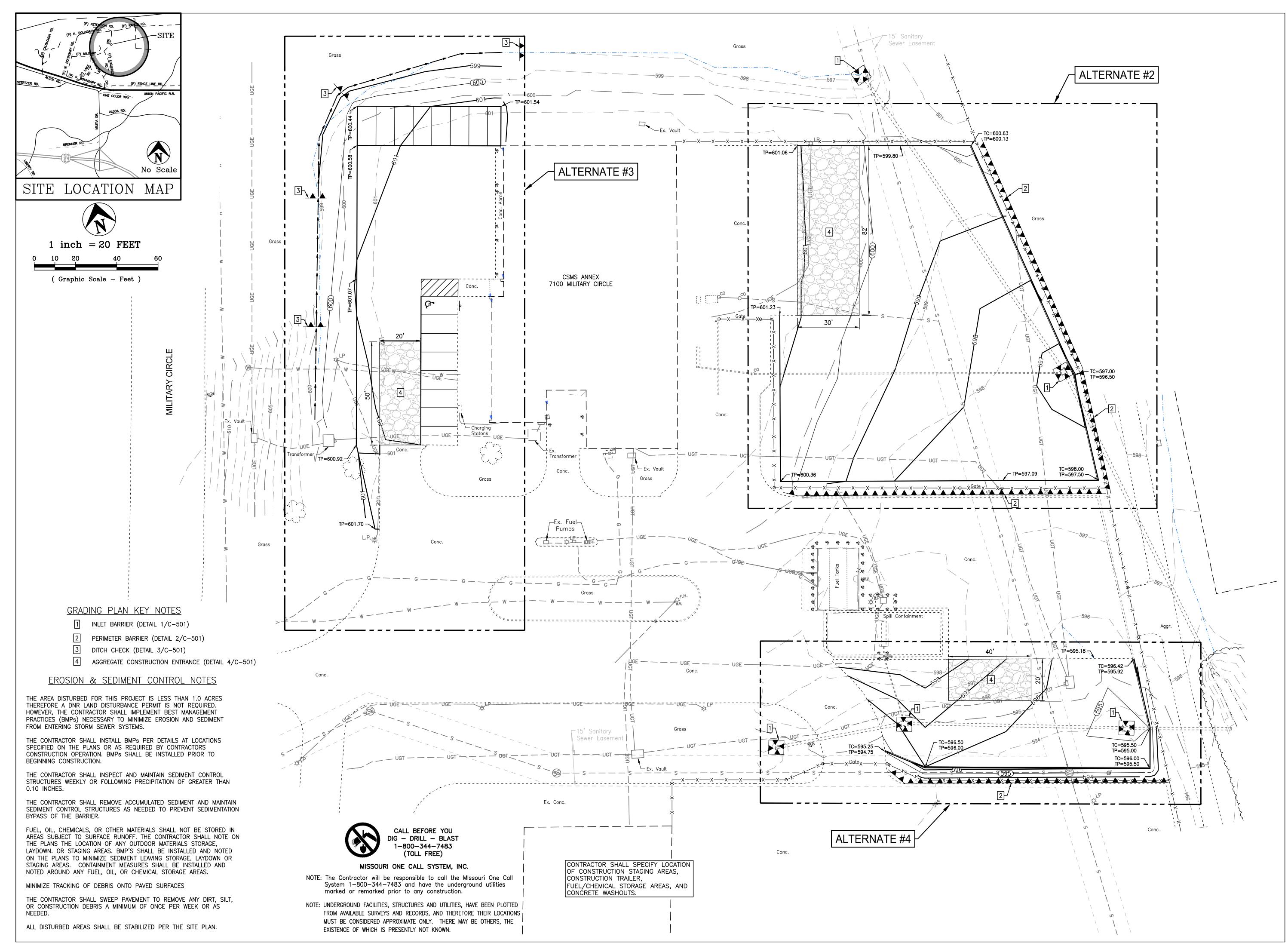
Grass

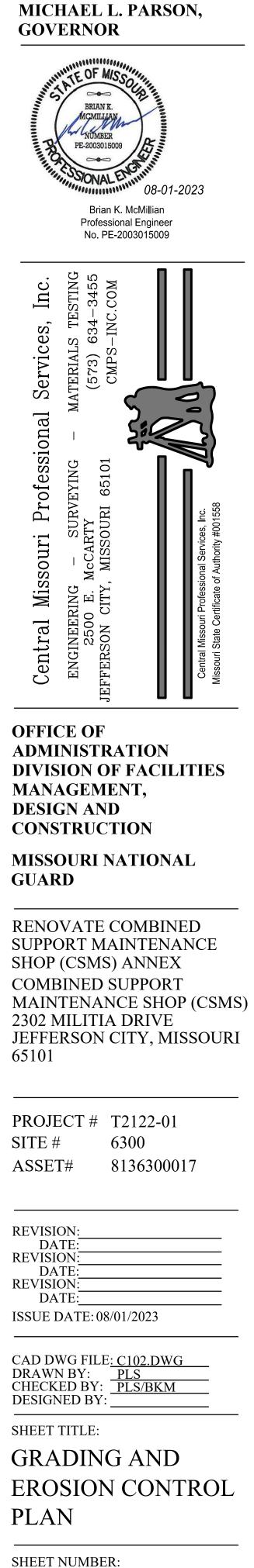


01359243



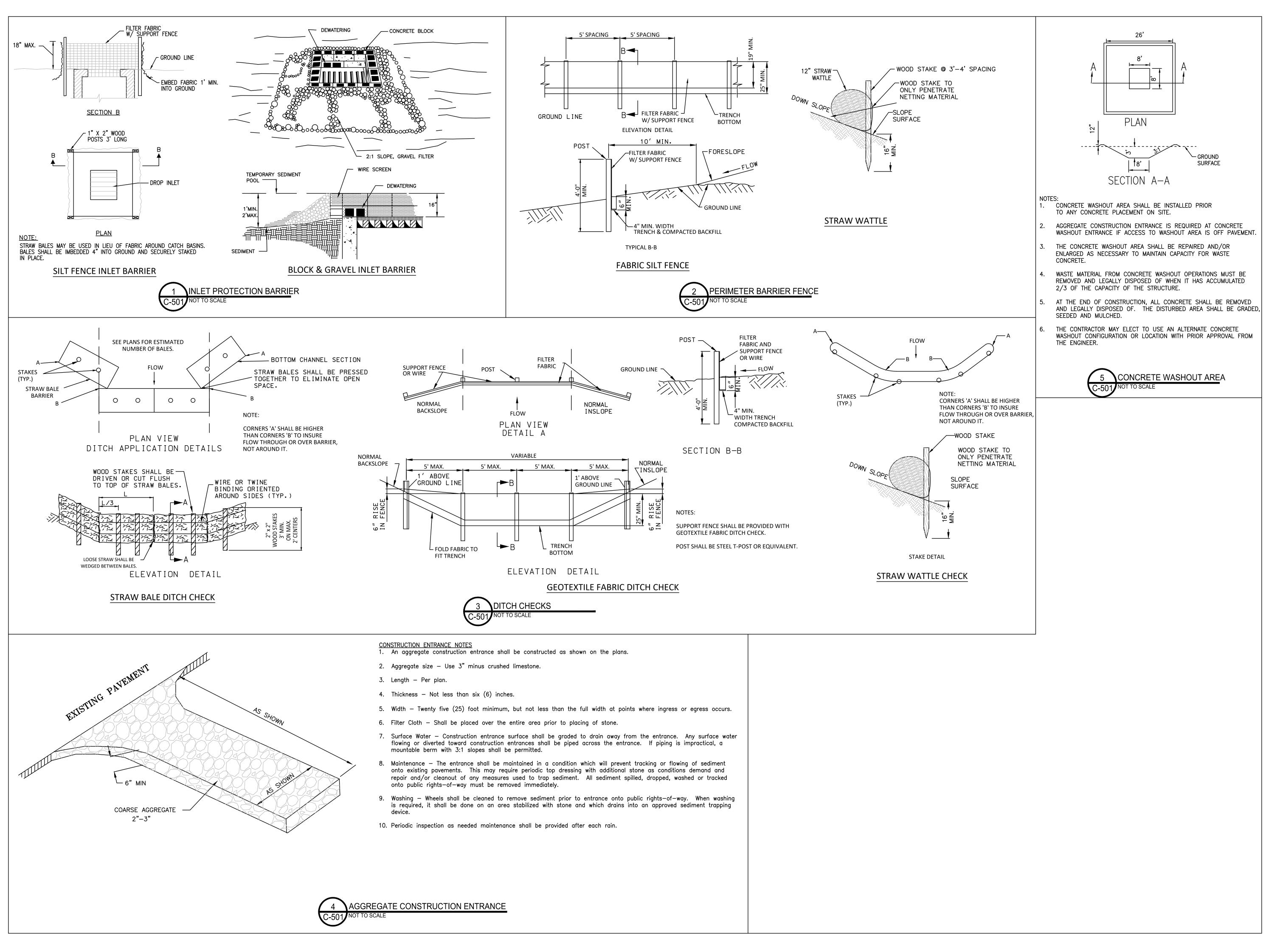






STATE OF MISSOURI

C-102 08/01/2023 SHEET 4 OF 29



Central Missouri Professional ENGINEERING – SURVEYING – 1 Z500 E. McCARTY JEFFERSON CITY, MISSOURI 65101 Central Missouri Professional Services, Inc.

STATE OF MISSOURI

BRIANK

NUMBER PE-2003015009

SYONAL

Inc

Services,

Brian K. McMillian

Professional Engineer

No. PE-2003015009

M

08-01-2023

GOVERNOR

MICHAEL L. PARSON,

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD

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

T2122-01
6300
813630001

REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	

ISSUE DATE: 08/01/2023

CAD DWG FILE: <u>C501.DWG</u> DRAWN BY: <u>PLS</u> CHECKED BY: <u>PLS/BKM</u> DESIGNED BY: _____

SHEET TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER:

C-501 08/01/2023 SHEET 5 OF 29 GENERAL NOTES:

1. All work shall comply with State of Missouri Codes, Standards, Technical Specifications, and all other applicable requirements.

2. It is the contractor's responsibility to obtain all necessary permits associated with the installation, notify municipal and state agencies and utility companies having jurisdiction, and to coordinate all inspection required.

3. Location of existing utilities are from best information available. Exact location and completeness are not guaranteed. Prior to construction the Contractor shall contact all utility companies concerned. (1-800-DIG-RITE Missouri One Call) If this data is not complete, make test pits and other field locations necessary in order to determine the exact locations of the concerned utilities. Any existing utilities, structures, trees, or other objects which could interfere with the correct completion of the project are also to be located by the Contractor. Any conflicts are to be addressed to the Engineer prior to construction. Additional work resulting from a failure to initially address these items will be at the expense of the Contractor.

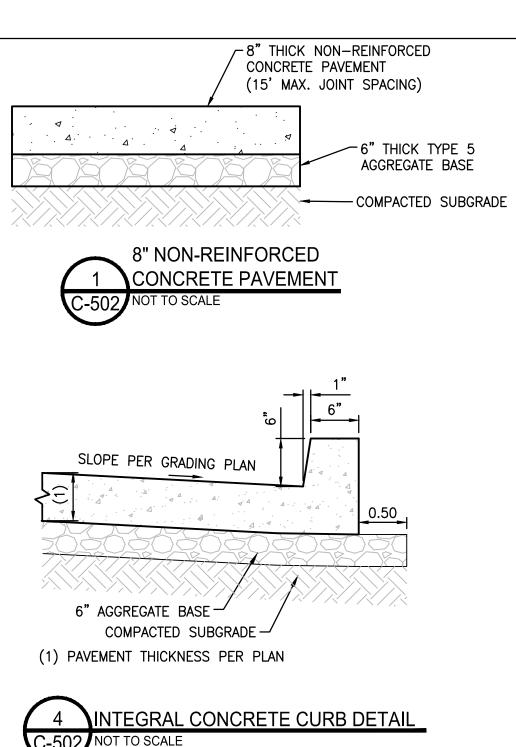
4. Contractor to be responsible for the protection of new and existing structures, vegetation, walkways, or improvements. No trees outside cuts and fills are to be removed without the approval of the Engineer. No fill is to be placed around existing trees. Damages resulting from construction activities are to be repaired by Contractor at no additional cost to Owner. Any damages shall be brought to the immediate attention of the Engineer.

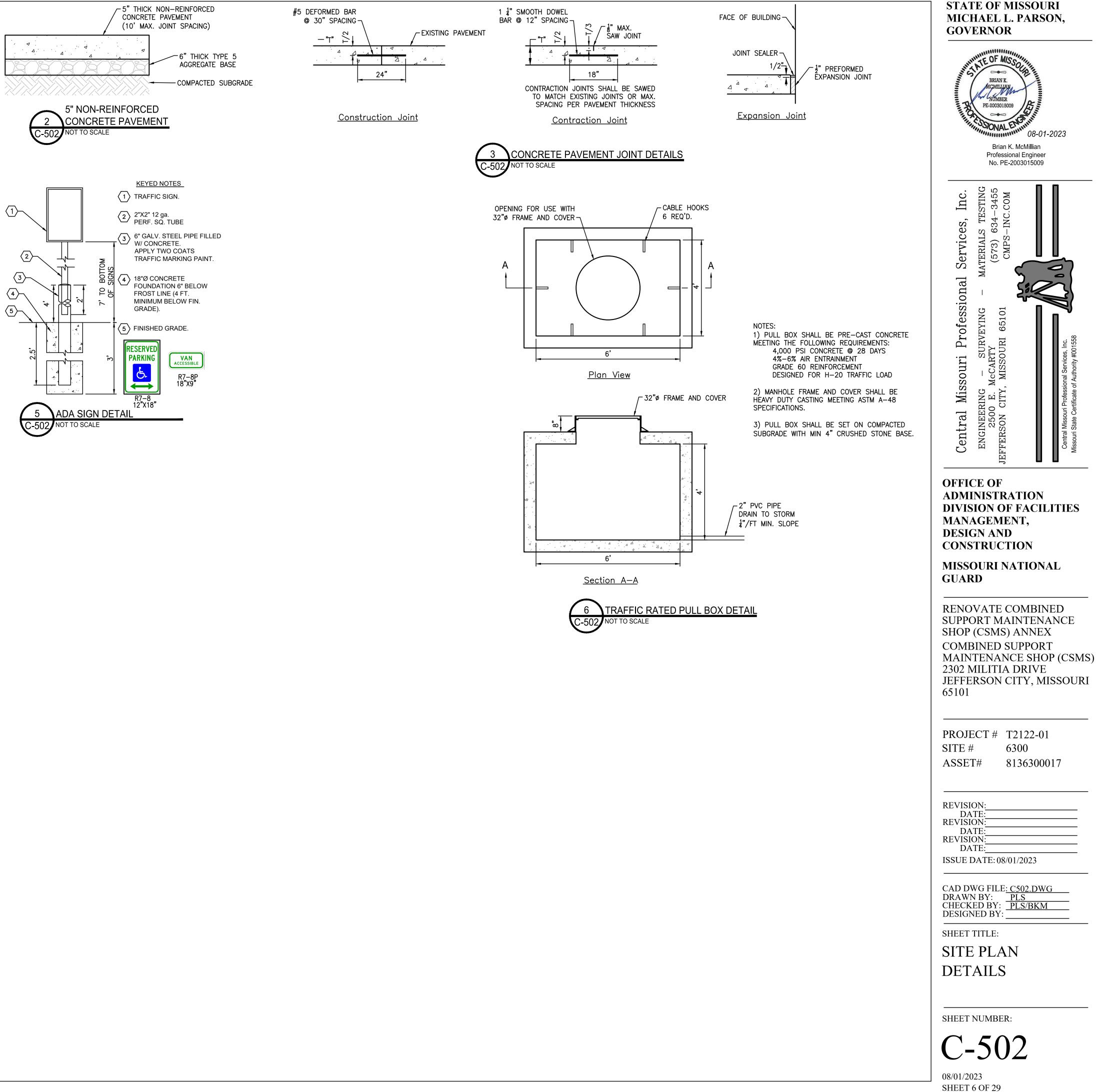
5. All written dimensions, coordinates, bearings, and other written data govern. Prior to starting work all data is to be verified by the contractor.

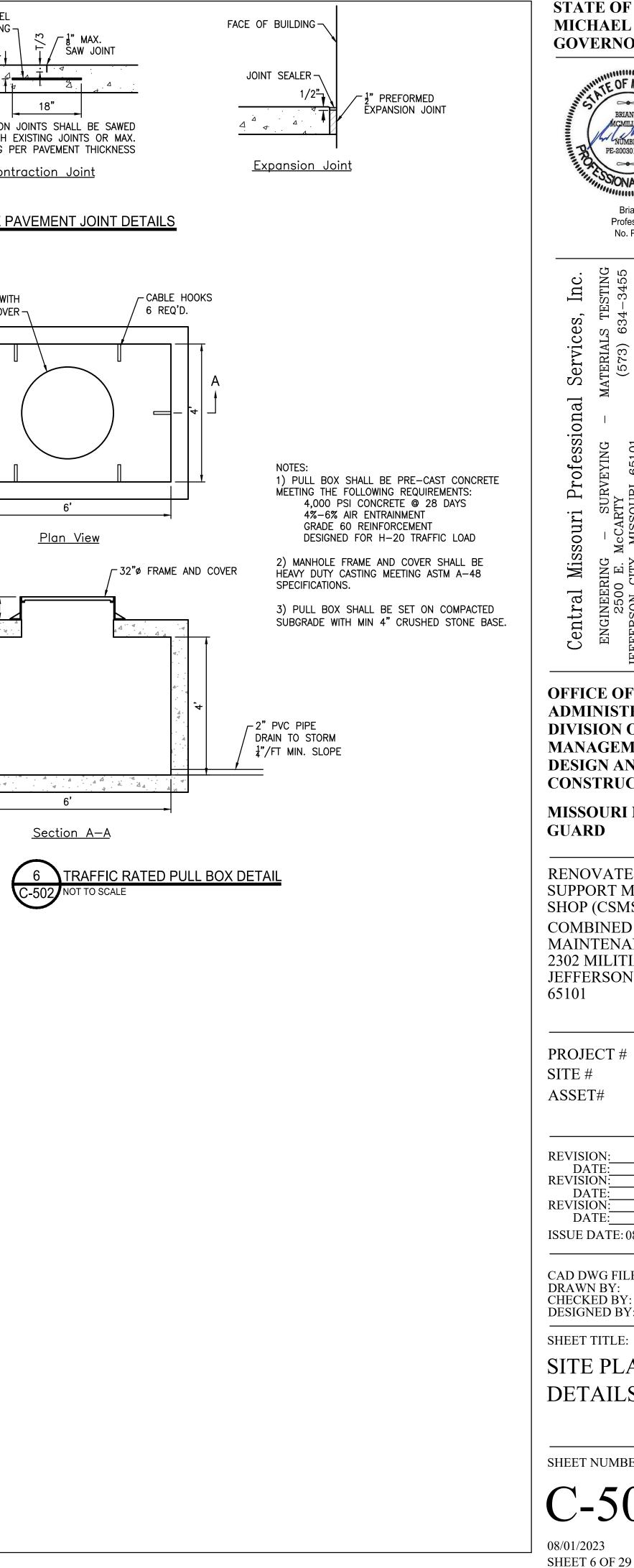
6. Consult Engineer regarding proposed changes, relocation, or modifications prior to the start of work.

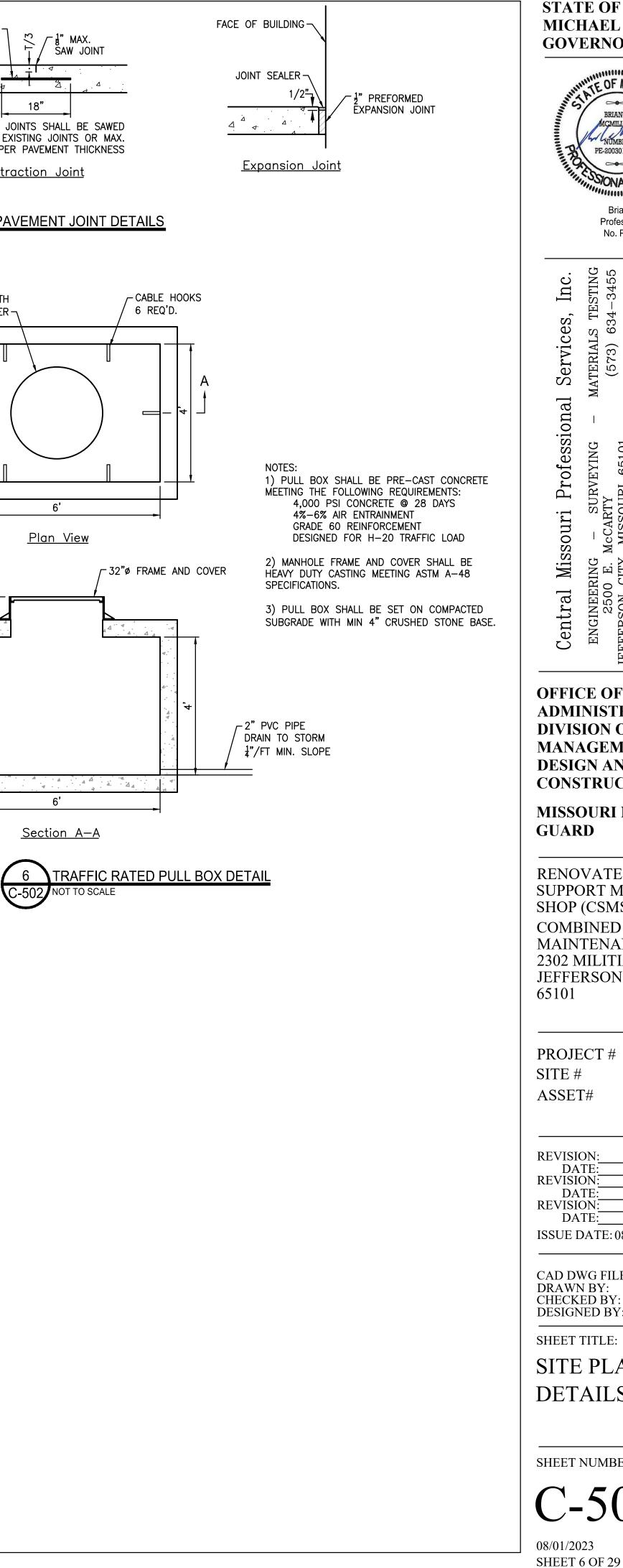
7. Locations of all existing topographical features are based upon a survey by Central Missouri Professional Services. Horizontal and vertical control points used for this project are noted hereon. The contractor shall use these bench marks for all work performed.

8. All fill under pavement is to have 95% compaction. All cut areas under pavement are to be treated as the final lift of fill and compacted to 95%. Non-compressible fill materials such as crushed rock with minimal fines may be used instead of compacted fill to backfill trench excavations.









08-01-2023

BUILDING DESIGN DATA:

Β.

GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC)

1. ROOF DEAD LOAD, D (ESTIMATED EXISTING)

=25.0 PSF

- 2. MINIMUM ROOF LIVE LOADS, Lr
- METAL DECK = 20 PSF
 - JOISTS, JOIST GIRDERS, BEAMS, COLUMNS, & FOOTINGS
 - TRIBUTARY LOADED AREA (At): 0 TO 200 SF. = 20 PSF TRIBUTARY LOADED AREA (At): 201 TO 599 SF. = 20*(1.2-0.001*At) PSF TRIBUTARY LOADED AREA (At): 600 SF. AND GREATER = 12 PSF
- 3. ROOF SNOW LOADS. S
- GROUND SNOW LOAD, Pg = 20 PSF
- SNOW EXPOSURE FACTOR, Ce = 1.0 SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
- THERMAL FACTOR, Ct = 1.0
- FLAT-ROOF SNOW LOAD*, Pf = 20 PSF *INCLUDES 5.0 PSF RAIN-ON-SNOW SURCHARGE ALL APPLICABLE EFFECTS DUE TO UNBALANCED SNOW LOADING AND SNOW DRIFTING
- 4. WIND LOADS, W
 - BASIC WIND SPEED (3 SECOND GUST), V = 115 MPH WIND LOAD IMPORTANCE FACTOR, Iw = 1.0
 - BUILDING CATEGORY: ENCLOSED, SIMPLE DIAPHRAGM
 - OVERALL EXPOSURE CATEGORY: C
 - HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENT = 1.26 (Kzt=1.0) MAIN-WIND-FORCE-RESISTING-SYSTEM WIND DESIGN (ULTIMATE) PRESSURES, W:

MWFRS WIND DESIGN PRESSURES				
LOCATION DESIGN PRESSURE (PSF)				
TAL	-INTERIOR ZONE -END ZONE **	17.5 26.4		
* THE TOTAL HORIZONTAL LOAD EFFECT ON THE BUILDING SHALL NOT BE LESS THAN THAT BY ASSUMING THAT THE WIND PRESSURES IN ALL ZONES IS EQUAL TO 16.0 PSF ** END ZONE PRESSURES SHALL APPLY WITHIN 15 FEET OF EACH BUILDING CORNER				
/ERTICAL	MAXIMUM WINDWARD ROOF PRESSURE -INTERIOR ZONE -END ZONE **	-22.0 -31.7		

G. COMPONENTS AND CLADDING WIND DESIGN (SERVICE LOAD) PRESSURES: PER TABLE BELOW.

COMPONENTS AND CLADDING WIND DESIGN PRESSURES (PSF)						
	ZONE*	EFFECTIVE WIND AREA (SF)	WINDWARD PRESSURE	LEEWARD PRESSURE		
		10	10.0	-18.0		
	(1)	20	10.0	-17.5		
		50	10.0	-16.9		
		100	10.0	-16.5		
		10	10.0	-30.1		
ROOF	\bigcirc	20	10.0	-26.9		
ß	(2)	50	10.0	-22.7		
		100	10.0	-19.5		
	3	10	10.0	-45.4		
		20	10.0	-37.6		
		50	10.0	-27.2		
		100	10.0	-19.5		
		10	18.0	-19.5		
		20	17.1	-18.6		
	4	50	16.1	-17.6		
0		100	15.2	-16.8		
WALLS		500	13.4	-14.9		
NA		10	18.0	-24.1		
		20	17.1	-22.4		
	(5)	50	16.1	-20.3		
		100	15.2	-18.6		
		500	13.4	-14.9		

* ZONE 1 INCLUDES THOSE ROOF ELEMENTS LOCATED OUTSIDE OF 8 FEET OF A ROOF EDGE. ZONE 2 INCLUDES THOSE ROOF ELEMENTS LOCATED WITHIN 8 FEET A ROOF EDGE.

- ZONE 3 INCLUDES THOSE ROOF ELEMENTS LOCATED WITHIN 8 FEET OF A ROOF EDGE AND WITHIN 12 FEET OF A BUILDING CORNER.
- ZONE 4 INCLUDES THOSE WALL ELEMENTS LOCATED OUTSIDE OF 8 FEET OF A BUILDING CORNER. ZONE 5 INCLUDES THOSE WALL ELEMENTS LOCATED WITHIN 8 FEET OF A BUILDING CORNER.
- SEISMIC DESIGN DATA 6.
 - SEISMIC USE GROUP = I MAPPED SPECTRAL RESPONSE COEFFICIENTS
 - 1- S_s = 0.207
 - 2- $S_1 = 0.108$
 - SITE CLASS = E
- D. SPECTRAL RESPONSE COEFFICIENTS 1- $S_{DS} = 0.322$
 - 2- S_{D1} = 0.305
- SEISMIC DESIGN CATEGORY = D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM: BEARING WALL INTERMEDIATE REINFORCED
- MASONRY SHEAR WALLS
- RESPONSE MODIFICATION COEFFICIENT = 3.5
- DEFLECTION AMPLIFICATION FACTOR = 4.0 SYSTEM OVERSTRENGTH FACTOR = 2.5
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE BASE SHEAR: V = 33.2 kips

- SUBGRADE PREPARATION NOTE:
- MADE IN THE "SUBSURFACE INVESTIGATION, ANLAYSIS AND GEOTECHNICAL ENGINEERING RECOMMENDATIONS FOR T1921-01 CSMS RENOVATION, JEFFERSON CITY, MISSOURI" DATED JANU. 31, 2020, PREPARED BY GREDELL ENGINEERING RESOURCES, INC.

CONCRETE

- ALL CONCRETE SHALL BE NORMAL-WEIGHT (DENSITY=145 PCF) AND SHALL HAVE A 28-DAY 1. COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING: ALL FOUNDATIONS, INTERIOR SLAB ... EXTERIOR SLABS, CURBS, SIDEWALKS .. ALL OTHER CONCRETE (U.N.O.) ...
- 2. THE SLUMP OF ALL CONCRETE SHALL NOT EXCEED 4 IN. UNLESS A HIGH RANGE WATER-REDUCIN ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 4 IN. THE SLUMP OF CONCRETE CONTAINING HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 8 IN.
- 3. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED WITH 5% +/- 1.5% AIR CONTENT.
- 4. THE COARSE AGGREGATE SIZE SHALL MEET AASHTO #57.
- 5. THE MINIMUM PORTLAND CEMENT CONTENT (ASTM C150 TYPE I/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

- THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW A MINIMUM OF ONE WEE PRIOR TO THE PLACEMENT OF ANY CONCRETE. THE CONCRETE MIX DESIGNS SHALL INCLUDE ALI 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.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. 9.
- 10. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LA EDITION OF THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL.
- 11 ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AN SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH THE LATEST EDITION OF THE CRS "MANUAL OF STANDARD PRACTICE".
- THE MINIMUM CONCRETE CLEAR COVER OVER REINFORCING STEEL, UNLESS NOTED OTHERWISE 12. SHALL BE: UNFORMED SURFACE IN CONTACT WITH THE GROUND . FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
 - #5 BARS AND SMALLER .. SLABS, WALLS, AND JOISTS: #11 BARS AND SMALLER
- 13. ALL BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., WHICH ARE BELOW GRADE SHALL BI COVERED WITH A MINIMUM OF 3" OF CONCRETE.
- 14. ALL LAP SPLICES SHALL BE IN ACCORDANCE WITH THAT SHOWN ON THE DRAWINGS.

REINFORCED MASONRY

- THE REINFORCED CONCRETE MASONRY FOR THIS PROJECT HAS BEEN DESIGNED AND DETAILED I ACCORDANCE WITH THE ALLOWABLE STRESS DESIGN METHOD OF THE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES.
- 2. REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, fm, OF 2000 PSI. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90 AND SHALL HAVE MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2000 PSI. MORTAR SHALL CONFORM TO ASTM (TYPE S. GROUT SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28-DAY COMPRESS STRENGTH OF 2000 PSI.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. 3. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS OR LADDE 4 TYPE FORMED FROM 9 GAUGE COLD - DRAWN STEEL WIRE COMPLYING WITH ASTM A82, JOINT
- ALL REINFORCED CELLS, ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL 5. GROUTED SOLID.
- 6. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT B SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL II VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING. GROUT THE CELL FOR THE FULL HEIGHT OF THE DOWEL.
- VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM GROUT COVER OF 1/2 OF AN INCH TO THE 8 INSIDE FACE OF MASONRY UNIT AND A MINIMUM TOTAL MASONRY COVER NOT LESS THAN TWO INCHES.
- 9. PARALLEL ADJACENT VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEAR DISTANCE NO LESS THAN 1 1/2 BAR DIAMETERS NOR 1 1/2 INCHES.
- 10. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"x4".
- 11. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.

1. THE SITE SUBGRADE SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE RECOMMENDATION

3000 PSI	
4000 PSI	
3000 PSI	

... 3 IN. 1 1/2 IN.

. 3/4 IN.

REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS.

7. REINFORCING STEEL SHALL BE CENTERED IN THE MASONRY UNIT CELL, UNLESS NOTED OTHERW

12. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.

13. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION.

14. SPLICED REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 72 BAR DIAMETERS.

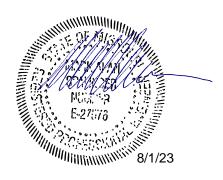
NS	1.	STEEL SHALL CONFORM TO THE FOLLOWING GRADES:		SPECIAL INSPECT	IONS SCHEDULE	
JARY		WIDE FLANGE SHAPES		SPECIAL INSPECTION	FREQ.	REFERENCED STANDARD(S)
		STRUCTORAL TOBE A500 (Fy = 40 RSI) STEEL PIPE A53 (Fy = 35 KSI) THREADED RODS F1554, A36 OR A307	<u>st</u>	TEEL CONSTRUCTION:		
		THREADED RODS	1. I	NSPECTION OF BEARING-TYPE CONNECTIONS	PERIODIC	AISC LRFD Sec. M2.5
		WELDING ELECTRODES	2. N	MATERIAL VERIFICATION OF STRUCTURAL STEEL:		AISC LRFD Sec. M2.5
	2.	ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (AISC 303-16), EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.		A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		ASTM A-6 OR ASTM A-568
	3.	ALL STRUCTURAL STEEL TO HAVE A SHOP GRADE PRIMER UNLESS NOTED OTHERWISE.		B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED		
	MISC	CELLANEOUS:	3. N	I MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
	1.	NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE		A. IDENTIFICATION MARKINGS TO CONFORM TO AWS		
	2.	WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL		SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS		AISC ASD Sec. A3.6; AISC LRFD Sec. A3.5
		DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.		B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED NSPECTION OF WELDING:		AISC LRFD Sec. A3.5
	3.	NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.		SINGLE-PASS FILLET WELDS $\leq 5/16$ "	PERIODIC	AWS D1.1
	4.	DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.		NSPECTION OF STEEL FRAME TO VERIFY COMPLIANCE WITH TAILS ON THE APPROVED CONSTRUCTION DOCUMENTS:	THE	
		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		A. DETAILS SUCH AS BRACING AND STIFFENING		
		RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE		B. MEMBER LOCATIONS		IBC 1704.3.2
		PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.		C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		
	6.	ANY DETAIL TITLED AS A TYPICAL DETAIL IS APPLICABLE THROUGHOUT THE DESIGN DRAWINGS.	MA	ASONRY CONSTRUCTION:		
		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		AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHAL	L	
		SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.	I BE	VERIFIED TO ENSURE COMPLIANCE:		ACI 530.1/ASCE 6/TMS 602:Art. 2.6A
		THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED		B. CONSTRUCTION OF MORTAR JOINTS.	PERIODIC	ACI 530.1/ASCE 6/TMS 602:Art. 3.3B
		UPON THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.		C. LOCATION OF REINFORCEMENT AND	-	ACI 530.1/ASCE 6/TMS 602: Art.
т			_2 T	CONNECTORS.		3.4, 3.6A
	EXIS	TING CONSTRUCTION:		A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		ACI 530.1/ASCE 6/TMS 602:Art.3.3G
	1.	WORK SHOWN IS NEW UNLESS INDICATED AS EXISTING.		B. TYPE, SIZE, AND LOCATION OF ANCHORS,		ACI 530/ASCE 5/TMS 402-SEC.
		EXISTING CONSTRUCTION SHOWN IS BASED UPON ASSUMED EXISTING CONDITIONS AND CAN BE USED FOR BIDDING PURPOSES. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING JOB		INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		1.2.2(e), 2.1.4, 3.1.6, 1.12, 2.1.10.6.2, 3.2.3.4(b)
		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.		C. SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT	PERIODIC	ACI 530.1/ASCE 6/TMS 602: Sec. 1.12;ACI 530.1/ASCE 6/TMS 602:Art. 2.4, 3.4
	3.	THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH		D. WELDING OF REINFORCING BARS.		ACI 530/ASCE 5/TMS 402: Sec. 2.1.10.2, 3.2.3.4(b)
		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 INTERFERE WITH THE NEW WORK, THE PROFESSIONAL OF RECORD SHALL BE IMMEDIATELY NOTIFIED AND PRIOR WRITTEN APPROVAL SHALL BE OBTAINED BEFORE REMOVAL		E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		ACI 530.1/ASCE 6/TMS 602: Art. 1.8C, 1.8D
		OR MODIFICATION OF MEMBERS.		PRIOR TO GROUTING, THE FOLLOWING SHALL BE RIFIED TO ENSURE COMPLIANCE:		
	4.	THE CONTRACTOR SHALL RESTORE ALL EXISTING INCIDENTAL CONSTRUCTION REQUIRED TO BE		A. GROUT SPACE IS CLEAN.		ACI 530.1/ASCE 6/TMS 602:Art. 3.2D
		REMOVED TO ACCOMMODATE THE ERECTION OF THE NEW JOIST CONSTRUCTION TO ITS ORIGINAL WORKING CONDITION.		B. PLACEMENT OF REINFORCEMENT AND	PERIODIC	ACI 530/ASCE 5/TMS 402:Sec. 1.12;
	5.	THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS & METHOD OF ALL DEMOLITION WORK &		CONNECTORS. C. PROPORTIONS OF SITE PREPARED GROUT.	FERIODIC	ACI 530.1/ASCE 6/TMS 602:Art. 3.4 ACI 530.1/ASCE 6/TMS 602:Art. 2.6B
		FOR PROVIDING ALL NECESSARY TEMPORARY SHORING, BRACING & PROTECTION AS NECESSARY		D. CONSTRUCTION OF MORTAR JOINTS.	-	ACI 530.1/ASCE 6/TMS 602:Art. 3.3B
		FOR SAFETY, STABILITY & PROTECTION OF ALL BUILDING ELEMENTS & STRUCTURE DURING CONSTRUCTION & DEMOLITION.		GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE	CONTINUOUS	ACI 530/ASCE 6/TMS 602-ART. 3.5
Ο,	SDEC	CIAL INSPECTIONS:		MPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT OVISIONS.		
<u> </u>	1.	THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS (ACCEPTABLE TO THE STATE OF MISSOURI) TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE	SPI	PREPARATION OF ANY REQUIRED GROUT ECIMENS, MORTAR SPECIMENS, AND/OR PRISMS IALL BE OBSERVED.	CONTINUOUS	ACI 530/ASCE 6/TMS 602-ART. 1.4. AND SEC. 2105.2.2 AND 2105.3
		REQUIRED SPECIAL INSPECTION ITEMS. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE STATE OF MISSOURI AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF	OF	COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS THE CONSTRUCTION DOCUMENTS AND THE APPROVED IBMITTALS SHALL BE VERIFIED.	PERIODIC	ACI 530/ASCE 6/TMS 602-ART. 1.5.
		CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.		HESIVE ANCHORS/REINFORCEMENT:		
	3.	DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:		DURING PLACEMENT OF ADHESIVE ANCHORS OR		
		A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.	SP	INFORCEMENT EMBEDDED WITH ADHESIVE (AS ECIFIED ON THE CONSTRUCTION DOCUMENTS) IN ASONRY AND CONCRETE:		
		B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE STATE OF MISSOURI.		A. SIZE AND EMBEDMENT OF ANCHORS/REINF.	CONTINUOUS	MANUFACTURERS
E.		THE PROFESSIONAL-OF-RECORD, AND THE OWNER. ALL DISCREPANCIES SHALL BE BROUGHT		B. ANCHORS/REINFORCEMENT INSTALLED PER MANUFACTURERS RECOMMENDATIONS.	CONTINUOUS	INSTALLATION INSTRUCTIONS
		TO THE IMMEDIATE ATTENTION OF THE OWNER FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE				
		STATE OF MISSOURI AND THE PROFESSIONAL-OF-RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.				
Т		C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.				
	4.	WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF OTHER SPECIFIED				

ERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF OTHER SPECIFIED TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

STRUCTURAL OBSERVATION (AS DEFINED IN CHAPTER 17 OF THE BUILDING CODE) IS NOT REQUIRED, 5. UNLESS SPECIFICALLY REQUIRED BY THE STATE OF MISSOURI.

6. SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING TABLE:

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



MARK A. SPALINGER License Number: E-27576 Expiration Date: 12/31/23 PROFESSIONAL SEAL CASCO Diversified Corporation MO Certificate of Authority #000329 Arch.

MO Certificate of Authority #000613 Eng.

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

MISSOURI NATIONAL GUARD

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

PROJECT #	T2122-01
SITE #	6300
ASSET#	8136300017

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE:

ISSUE DATE: 08/01/2023

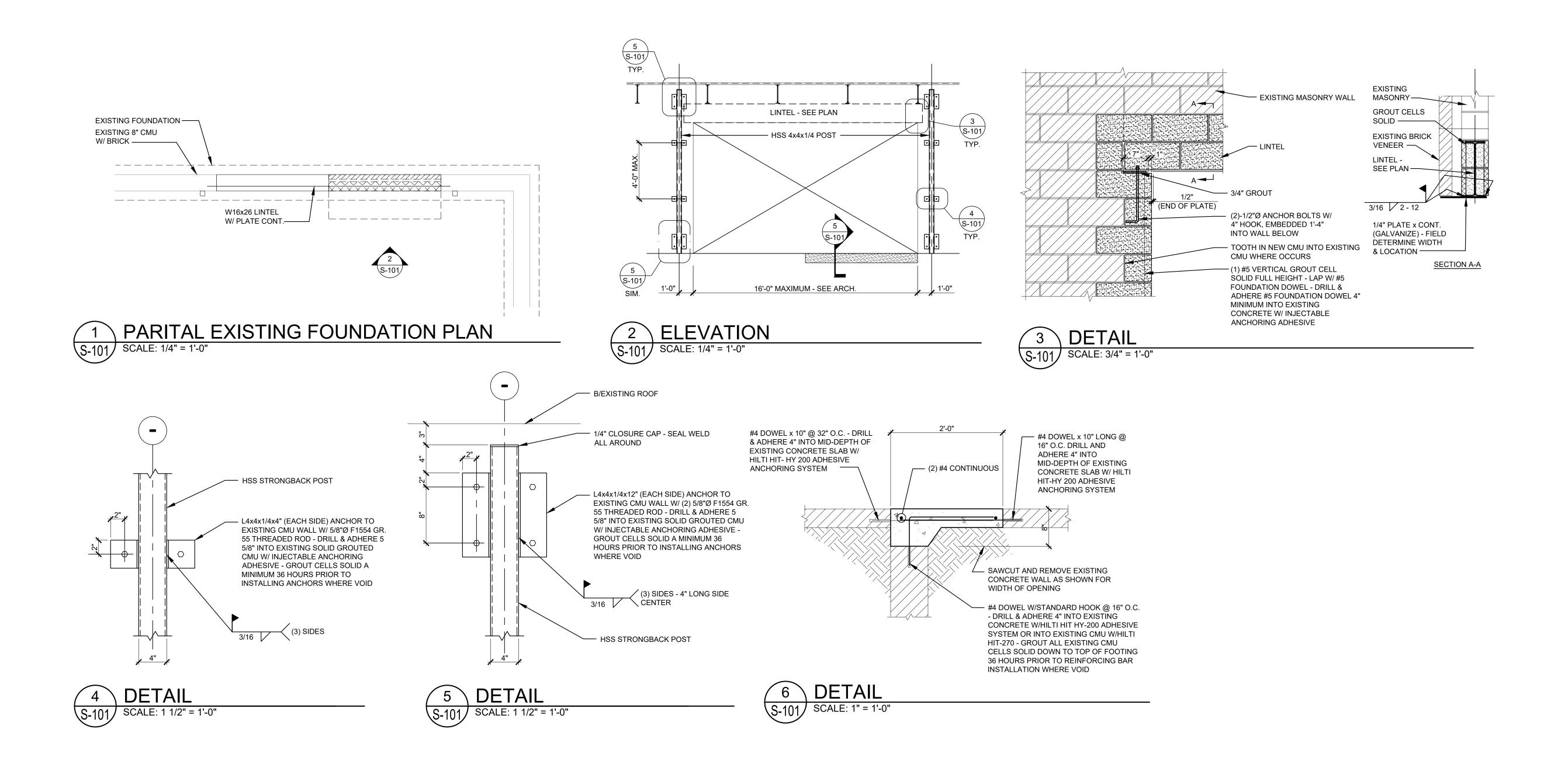
BWT
NDM
NDM

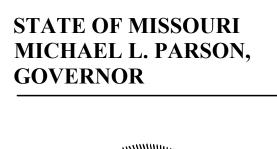
SHEET TITLE:

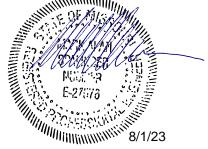
STRUCTURAL **GENERAL NOTES**

SHEET NUMBER:

08/01/2023 SHEET 7 OF 27







MARK A. SPALINGER License Number: E-27576 Expiration Date: 12/31/23 PROFESSIONAL SEAL CASCO Diversified Corporation MO Certificate of Authority #000329 Arch.

MO Certificate of Authority #000613 Eng.



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

MISSOURI NATIONAL GUARD

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

PROJECT #	T2122-01
SITE #	6300
ASSET#	8136300017

REVISION: DATE: **REVISION:** DATE: REVISION: DATE: ISSUE DATE: 08/01/2023

CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY: BWT NDM NDM

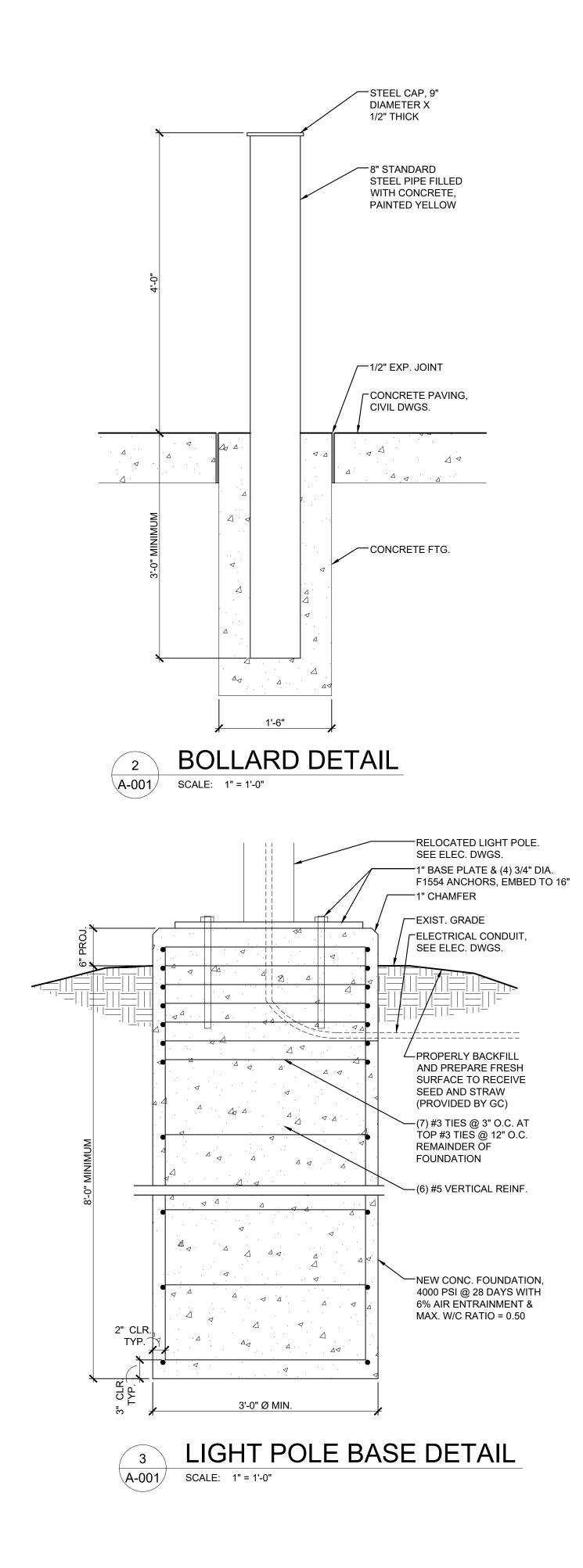
SHEET TITLE:

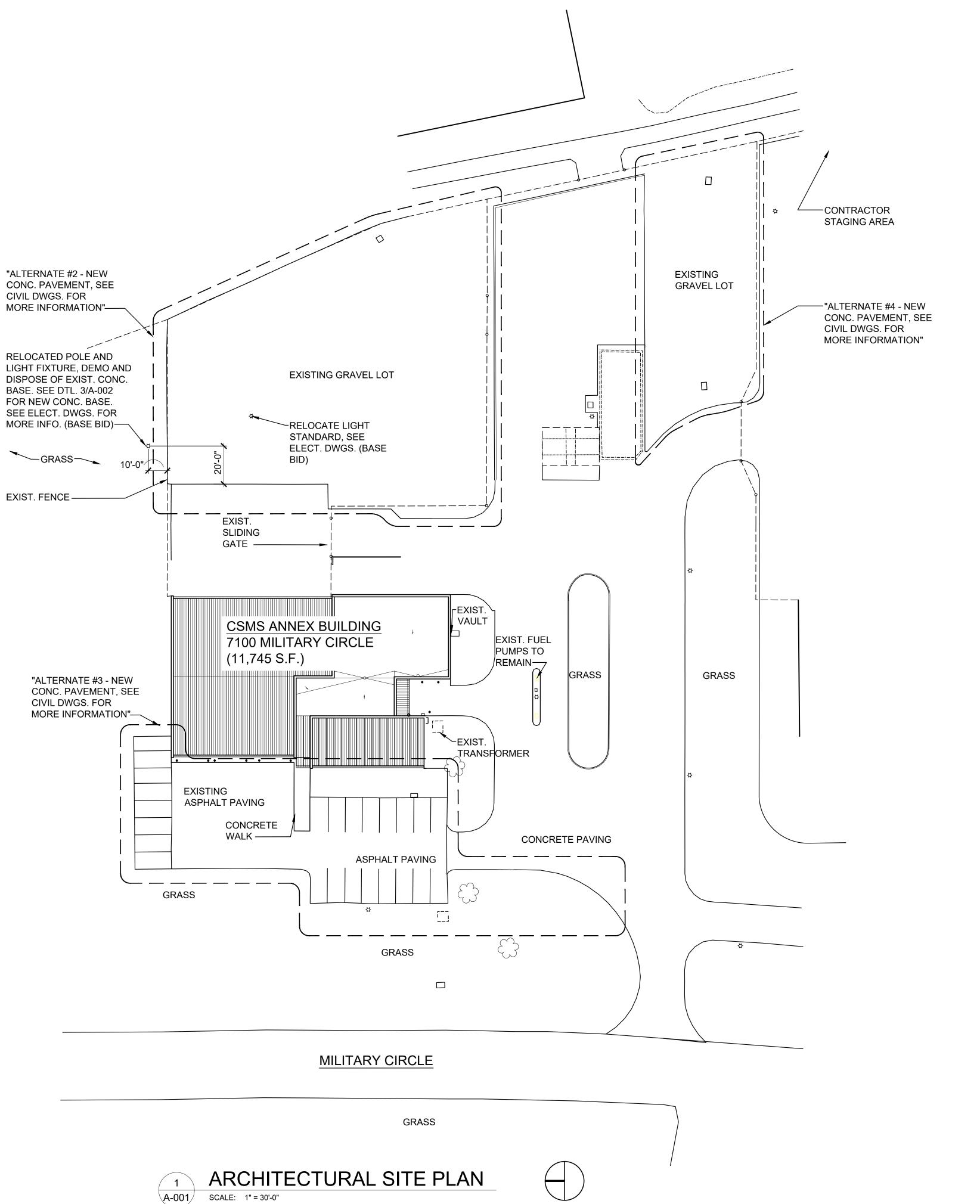
STRUCTURAL PARTIAL PLAN & DETAILS

SHEET NUMBER:



08/01/2023 SHEET 8 OF 27





A-001 SCALE: 1" = 30'-0"

NORTH

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



License Number:2014026855 Expiration Date: 12/31/24 PROFESSIONAL SEAL CASCO Diversified Corporation MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.

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

MISSOURI NATIONAL GUARD

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

PROJECT # T2122-01 SITE # ASSET#

6300 8136300017

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE:

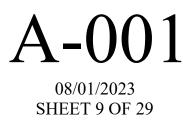
ISSUE DATE: 08/01/2023 _____

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

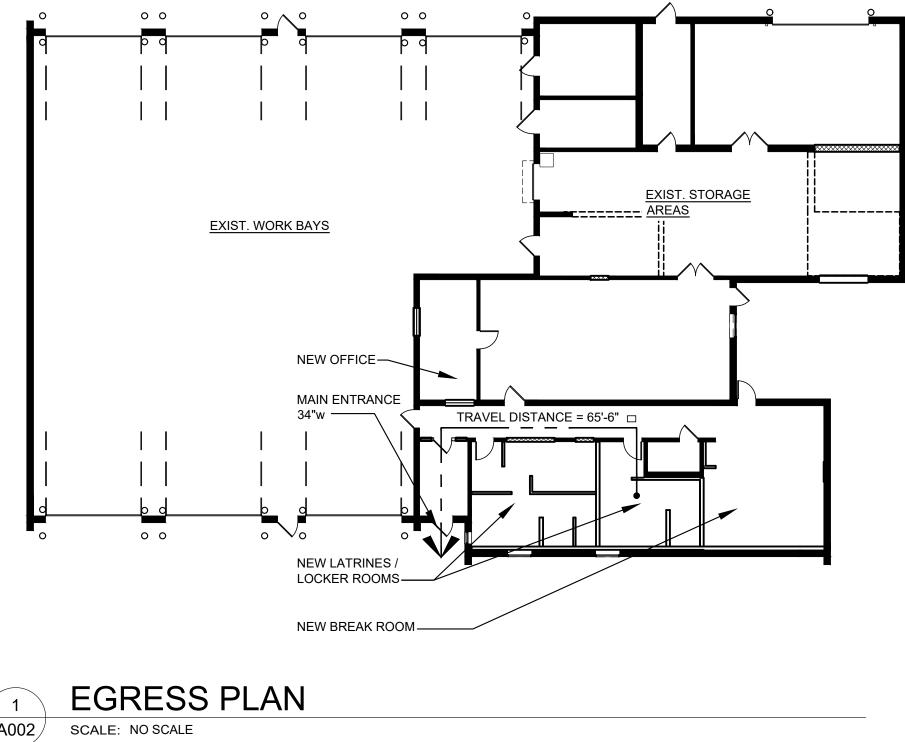
SHEET TITLE:

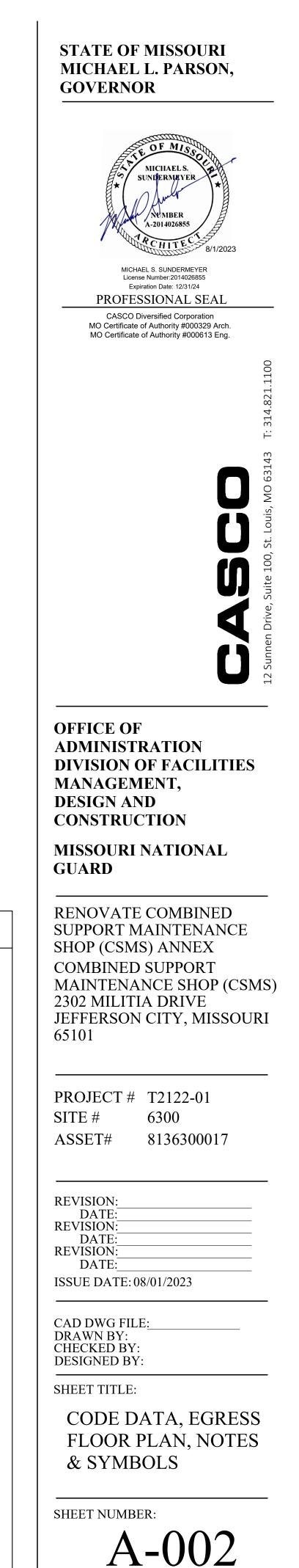
ARCHITECTURAL SITE PLAN

SHEET NUMBER:



 GENERAL NOTES: 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 MOMINISTRATION REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUEREMENTS AND REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUEREMENTS AND RECOMMENDATIONS RESOLUTION AND MILED. IN THE CONTRACTOR SHALL COMPLY WITH FEDERAL ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY MOMINISTRATION REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUEREMENTS AND RECOMMENDATIONS RESOLUTION AND MILED. IN THE CONTRACTOR SHALL CONTRIAL TO A TOTAL THE THE PRESENCE OF MOLD AND / OR MILDEW, THE CONTRACTOR SHALL CONTRACTOR TIME TO THE UNREST REPRESENTATIVE AND THE ARCHITECT ENVIRONMENT THE LONTS OF CONSTRUCTION OR WITHIN THE DESIGNATED STAGING AREA AS DETERMINED BY THE PRESIDE MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPARING ANY SURFACES DAMAGED BY CONSTRUCTION ACTIVITY THAT IS UNDER THE GONTRACTOR TIME INCLUDES ALL SUBCONTRACTOR WORK). REPRINS SHALL MICH EXISTING MATERNALS AND EARLY DET THE UNRES. THE CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM THE JOBSITE ON A REGULAR BASIS. AS DECENTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM THE JOBSITE ON A REGULAR BASIS. AS DECENTRACTOR SHALL REMOVE CONSTRUCTION FOR FURTHER DIRECTION. THE CONTRACTOR SHALL REMOVE CONSTRUCTION STARE AND DEBRIS HAVE BEEN ELIMINATED PRIOR TO MARKANSI AND AND ADDIV		Image: state work bays Image: state work ba	ABBREVIATIONS
BID ALTERNATES: 1. VEHICLE EXHAUST REELS - PROVIDE 7 INDIVIDUAL, RETRACTABLE, EXHAUST REELS FOR VEHICLE MAINTENANCE IN THE WORK BAYS (ONE PER DRIVE-IN DOOR), EACH UNIT IS SUPPORTED FROM THE EXISTING STRUCTURE WITH 25 OF O'INMETTER FLEXIBLE TUBING, AND WILL BE CONNECTED TO THE EXISTING STRUCTURE WITH 25 OF O'INMETTER FLEXIBLE TUBING, AND WILL BE CONNECTED TO THE EXISTING VEHICLE (DIESEL) EXHAUST STACK WITH COUPLING DEVICES. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. 2. EAST PARKING LOT - REPLACE EXISTING AGGREGATE PARKING AREA WITH CONCRETE PAVEMENT INCLUDING INTEGRAL 6' CONCRETE CURBS ALONG THE NORTH AND EAST EDGES FOR DRAINAGE TO EXISTING STORM WATER INLETS. SEE SHEET C-101 FOR MORE INFORMATION. 3. EMPLOYEE PARKING - REPLACE EXISTING CAR SPACES, ADD & NEW CAR PARKING SPACES ON NORTH END OF LOT. REPLACE CONCRETE AND WIDEN DRIVE ISLE AT ENTRANCE. SEE SHEET C-101 FOR MORE INFORMATION. 4. SOUTHEAST PARKING I OT - REPLACE EXISTING AGGREGATE WITH CONCRETE PAVEMENT, AN INTEGRAL 6' CURB ALONG THE EAST EDGE FOR DRAINAGE TO EXISTING STORM WATER INLETS. SEE SHEET C-101 FOR MORE INFORMATION.	MATERIAL KEY Image: Street in the stress of the s	SYMBOL LEGEND	AFF ABOVE FINISHED FLOOR AC ACOUSTICAL A/C AIR CONDITIONING ALT ALTERNATE ALUM ALUMINUM AB ANCHOR BOLT ARCH ARCHITECT(URAL) BRG BEARING BM BENCH MARK BLK BLOCK BLK BLOCK BLK BLOCK BLG BOTTOM OF BRK BRICK BLDG BUILDING CAB CABINET CLG CEILING CL CENTER INE COL COLUMN CONC CONCRETE CMU CONCRETE CMU CONCRETE CMU CONTRACTOR CONT CONTRACTOR CONT CONTRE FLASHING CISK COUNTER CONT CONTRE SUBLY CONT CONTRE CONTRACTOR COL COUNTER CONT CONTRE CONTRACTOR CONT CONTRE CONT CONTRE





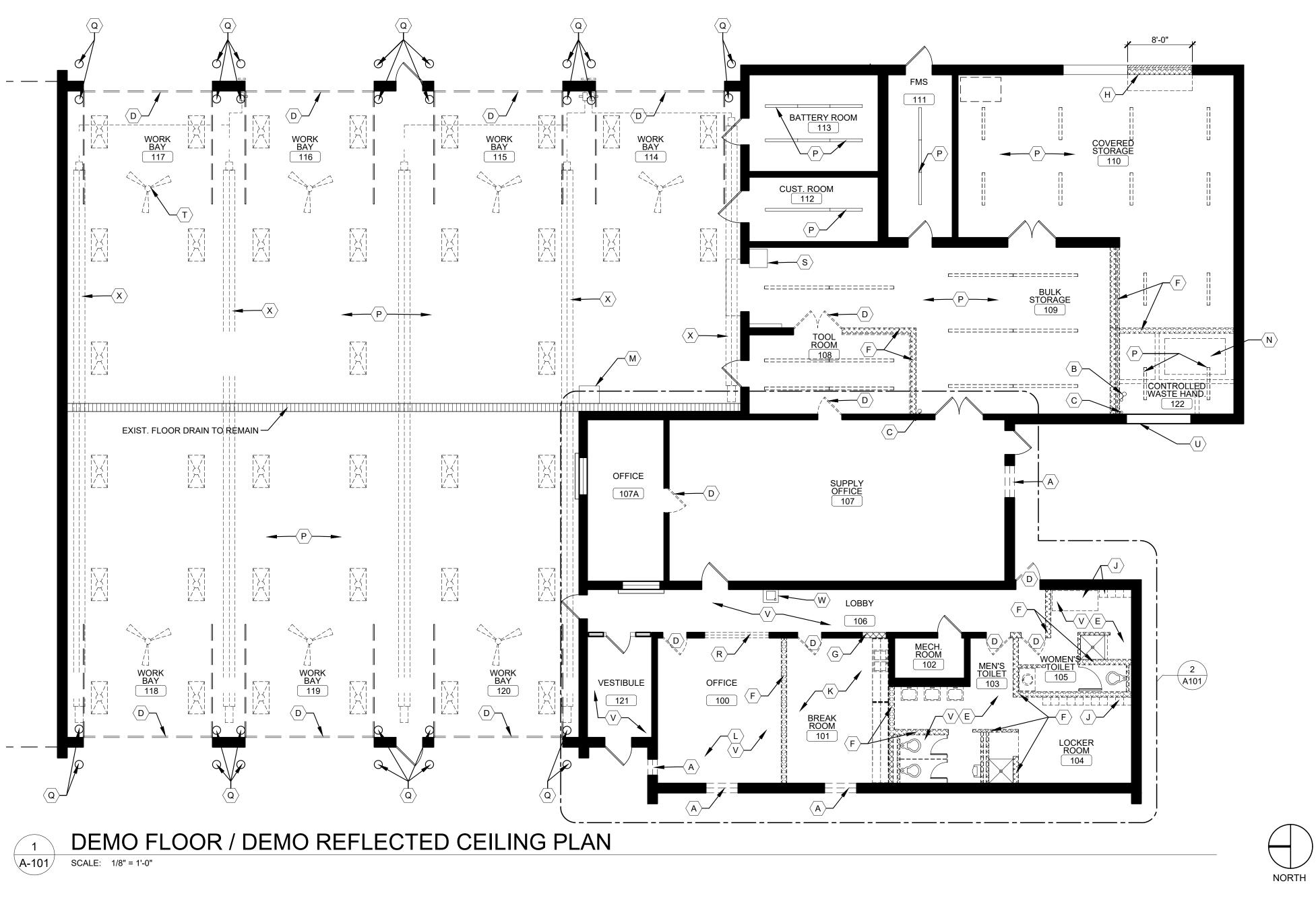
08/01/2023 SHEET 10 OF 29

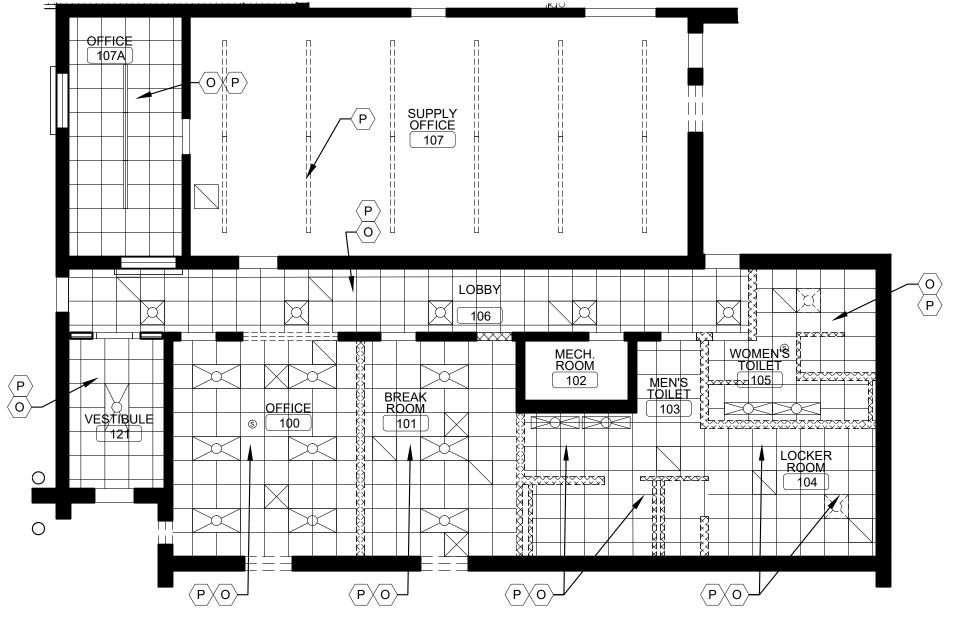
FINISH(ED) FINISHED FLOOR ELEV. FIN FFE FFL FE FINISHED FLOOR LINE FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FEC FT FIRE TREATED FLG FLR FD FLASHING FLOOR FLOOR DRAIN FTG FOOTING FDN FUR FOUNDATION FURRED(ING) GA GAGE, GAUGE GALV GALVANIZED GC GL GYP GENERAL CONTRACT(OR) GLASS, GLAZING GYPSUM GWB HTG GYPSUM WALL BOARD HEATING HVAC HEATING/VENTILATION /AIR CONDITIONING HT HC HM HEIGHT HOLLOW CORE HOLLOW METAL HK HOR HOOK(S) HORIZONTAL HB HOSE BIBB INSULATE(D), (ION) INSUL INT JST JT INTERIOR JOIST JOINT LEFT HAND LH LF LINEAL FOOT LINTEL LIVE LOAD LL MACHINE MANHOLE MACH MH MFR MANUFACTURER MAS MO MAX MASONRY MASONRY OPENING MAXIMUM MECH MECHANIC(AL) MED MTL MEDIUM METAL М METER(S) MWK MILLWORK MIN MISC MINIMUM MISCELLANEOUS MT MOUNT(ED), (ING) NOMINAL NOM Ν NORTH NIC NOT IN CONTRACT NTS OC NOT TO SCALE ON CENTER(S)

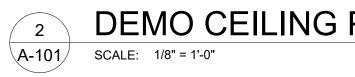
OPNG OPH OD OUTSIDE DIAMETER OO OA OUT TO OUT OVERALL OVERHEAD oh Ptd Pkg Plam PAINT(ED) PARKING PLASTIC LAMINATE PLATE PL PWD PVC PSF PLYWOOD POLYVINYL CHLORIDE POUNDS PER SQUARE FT. PSI POUNDS PER SQUARE IN. PRESSURE TREATED PT PL REM RET RH PROPERTY LINE REMOVE RETURN **RIGHT HAND** RD ROOF DRAIN RFG RM ROOFING ROOM RO ROUGH OPENING SLNT SECT SHTHG SHT SIM SC SEALANT SECTION SHEET SIMILAR SOLID CORE SOUTH SF SQUARE FOOT SQUARE INCH SI SY STD STO SUSP SYM SQUARE YARD STANDARD STORAGE SUSPENDED SYMMETRY, (ICAL) TEL TELEPHONE ΤV TELEVISION THK THICK(NESS) T&G TOM TONGUE & GROOVE TOP OF MASONRY TPO TS TOS TW TOW TYP UNO VERT VT THERMOPLASTIC POLYOLEFIN TOP OF STEEL TOP OF STEEL TOP OF WALL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE VERTICAL VINYL TILE WSCT WC WWF WAINSCOT WATER CLOSET WELDED WIRE FABRIC WEST WIDTH, WIDE W W WIN W/O WD WINDOW WITHOUT WOOD

OPENING

OPPOSITE HAND







DEMO CEILING PLAN @ OFFICES, TOILET RMS, & BREAKROOM



GENERAL DEMOLITION NOTES:

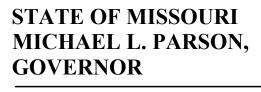
- 1. REFER TO DEMOLITION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. REFER TO FLOOR PLAN FOR PROPOSED NEW CONSTRUCTION, SHEET A-102.
- 3. REFER TO STRUCTURAL, MEP DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE AND REQUIREMENTS.
- 4. REMOVE ALL EXISTING SITE CONSTRUCTION AND DELETERIOUS MATERIALS UNLESS NOTED OTHERWISE.

DEMO KEYED NOTES:

- (A) REMOVE AND DISPOSE OF EXISTING EXTERIOR WINDOWS, REPLACE WITH NEW OF SAME SIZE.
- $\langle B \rangle$ EXISTING EYEWASH TO REMAIN. PROTECT DURING DEMO AND CONSTRUCTION
- $\langle C \rangle$ EXISTING ROOF DRAIN TO REMAIN. PROTECT DURING DEMO AND CONSTRUCTION.
- $\langle {\sf D}
 angle$ REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, AND ASSOC. HARDWARE
- E REMOVE EXISTING PLUMBING FIXTURES, COORDINATE UTILITIES BELOW SLAB WITH NEW PLUMBING FIXTURE LOCATIONS, SEE PLUMBING DRAWINGS.
- $\langle F \rangle$ DEMOLISH EXISTING CMU BLOCK PARTITIONS COMPLETE. (SHOWN DASHED, TYP.)

H REMOVE PORTION OF EXISTING EXTERIOR MASONRY WALL, LINTEL, AND CONCRETE SLAB FOR INSTALLATION OF NEW OVERHEAD DOOR. SEE STRUCTURAL FOR MORE INFORMATION.

- $\langle J \rangle$ REMOVE AND DISPOSE OF EXISTING LOCKERS.
- K REMOVE AND DISPOSE OF EXISTING BREAK ROOM CASEWORK, EQUIPMENT, FLOORING, AND FINISHES.
- $\langle L \rangle$ REMOVE AND SALVAGE EXISTING OFFICE FURNITURE FOR RELOCATION.
- $\langle M \rangle$ REMOVE AND SALVAGE EXISTING ICE MACHINE FOR RELOCATION. CAP WATER LINE.
- $\langle N \rangle$ EXISTING CURBS AND SLAB TO BE REMOVED COMPLETELY.
- O DEMOLISH CEILING GRID, TILE, LIGHTS (BACK TO SOURCE), AND ALL OTHER RELATED CEILING ITEMS COMPLETE (I.E. DIFFUSERS, SPEAKERS, EMERG. LIGHTS, DUCTWORK, ETC.) SEE MECH. AND ELEC. DWGS. FOR MORE INFO.
- $\langle P \rangle$ REMOVE EXISTING LIGHT FIXTURES, SEE ELECT. DWGS.
- $\langle Q \rangle$ EXISTING BOLLARD TO REMAIN.
- $\langle R \rangle$ REMOVE AND DISPOSE OF EXISTING INTERIOR WINDOW, INFILL TO MATCH WITH ADJACENT CONSTRUCTION.
- $\langle S \rangle$ EXISTING STACKED WASHER / DRYER TO REMAIN.
- $\langle T \rangle$ REMOVE EXISTING CEILING FANS, TYP.
- $\langle {\sf U}
 angle$ EXISTING OVERHEAD DOOR TO REMAIN, PROTECT DURING DEMO AND PREP TO REFINISH.
- V REMOVE AND DISPOSE OF EXISTING FLOORING. DEMO CONCRTE FLOORS FOR NEW PLUMBING. SEE PLUMBING DRAWINGS.
- W REMOVE EXISTING DRINKING FOUNTAIN, CAP PLUMBING, PATCH / REPAIR WALL FOR REFINISH. SEE ELECTRICAL FOR MORE INFORMATION
- $\langle X \rangle$ DEMO EXISTING INFRARED HEATERS, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.





MICHAEL S. SUNDERMEYER License Number:2014026855 Expiration Date: 12/31/24 PROFESSIONAL SEAL CASCO Diversified Corporation MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD

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

PROJECT #T2122-01SITE #6300ASSET#8136300017

REVISION: DATE: REVISION: DATE: REVISION: DATE:

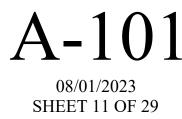
ISSUE DATE: 08/01/2023

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

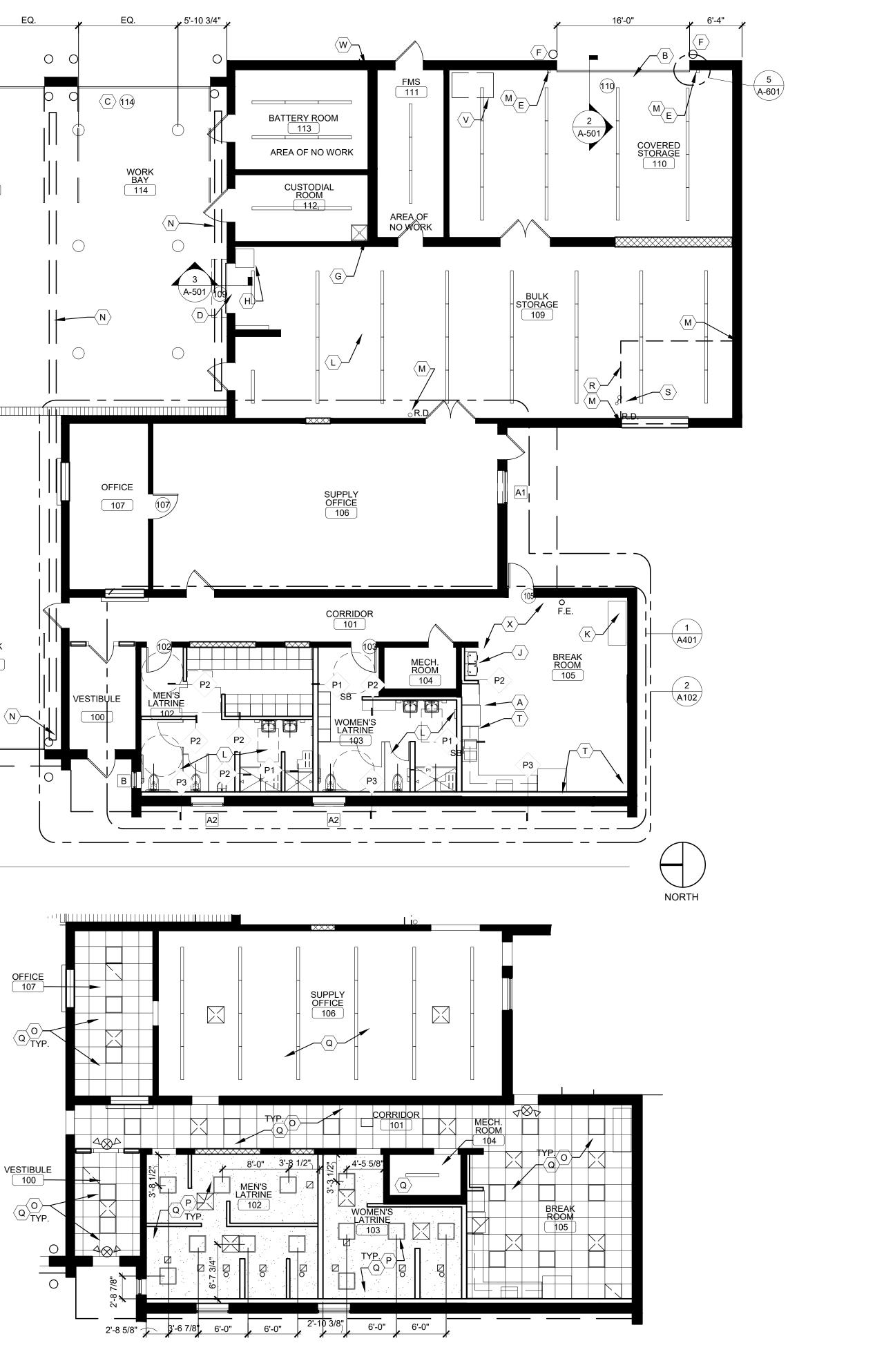
SHEET TITLE:

DEMOLITION FLOOR AND REFLECTED CEILING PLANS

SHEET NUMBER:









REFECTED CEILING PLAN SCALE: 1/8" = 1'-0"



FLOOR PLAN GENERAL NOTES:

1. REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. 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. 4. REFER TO INTERIOR FINISH SCHEDULE FOR NEW WALL FINISHES, FLOOR FINISH AND CEILING HEIGHTS. (A-601) 5. 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

8. SEE PARTITION TYPES ON A-501

REFLECTED CEILING PLAN GENERAL NOTES:

MECHANICAL EQUIPMENT SHOWN ON THE REFLECTED CEILING PLAN ARE FOR ARCHITECTURAL LOCATIONS ONLY. REFER TO MECHANICAL DRAWINGS FOR TYPES, SIZES, DISTRIBUTION, CONNECTIONS, AND ALL OTHER REQUIREMENTS.

10. 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.

1. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS (INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, SPRINKLER SYSTEM, LIGHT FIXTURES, CEILING SYSTEMS, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED ON THE DRAWING

EQUIPMENT SUPPORT NOTES:

DO NOT PUNCH OR USE DECK ABOVE TO SUPPORT ANY ITEMS SUCH AS; MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC. SHALL BE SUPPORTED FROM STRUCTURAL SUPPORT MEMBERS. GENERAL CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL SUB-CONTRACTORS PRIOR TO WORK TO BE PERFORMED. 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

⟨ KEYED NOTES

A REUSE EXISTING ICE MACHINE SALVAGED, SEE PLUMBING DRAWINGS. COORDINATE WITH OWNER EQUIPMENT LOCATIONS.

- $\langle B \rangle$ NEW 16'-0" x 10'-0" MOTORIZED OVERHEAD DOOR, SEE DOOR SCHEDULE ON SHEET A-601
- $\langle C \rangle$ NEW 16'-0" x 14'-0" MOTORIZED OVERHEAD DOOR, SEE DOOR SCHEDULE ON SHEET A-601
- (D) NEW 6'-0" x 6'-8" MOTORIZED COILING OVERHEAD DOOR, SEE DOOR SCHEDULE ON SHEET A-601
- $\langle E \rangle$ NEW STEEL STRONG-BACK SUPPORT AT NEW OVERHEAD DOOR OPENING. SEE STRUCT. DWGS.
- $\langle F \rangle$ NEW BOLLARD, SEE DETAIL 2/A-001
- $\langle G \rangle$ NEW MOP SINK AT CUSTODIAL ROOM. SEE PLUMBING DWGS.
- $\langle H \rangle$ EXISTING WASHER & DYER TO REMAIN.
- $\langle J \rangle$ NEW HI-LO WATER COOLER. SEE PLUMBING AND ELECT. DWGS.
- $\langle K \rangle$ EXISTING COPIER RELOCATED.

L REPAIR, PATCH AND FINISH FLOOR AND WALLS TO LIKE NEW CONDITION, WHERE EXISTING FLOOR AND WALL WAS REMOVED. SEE MEP DWGS FOR RELOCATED OR DISCONNECTED CONDUIT AND PIPING. SEE ROOM FINISH SCHEDULE FOR WALL PAINT.

CLEAN, PATCH, AND REPAIR EXISTING CMU TO LIKE NEW CONDITION WHERE EXISTING BRICK, BLOCK, INSULATION AND MASONRY TIES HAVE BEEN REMOVED. SEE ROOM FINISH SCHEDULE FOR PAINT FINISH ON SHEET A-601.

 $\langle N \rangle$ NEW GAS FIRED INFRARED HEATERS, SEE MECH. DWGS.

(O) NEW 2'-0" x 2'-0" ACT.

 $\langle \mathsf{P} \rangle$ NEW WATER RESISTANT GYP BOARD CEILING

 $\langle Q \rangle$ NEW LED LIGHTING, SEE ELECT. DWGS. ONE FOR ON REPLACEMENT U.N.O.

 $\langle R \rangle$ AREA OF SLAB INFILL

 $\langle S \rangle$ EXIST. EYE WASH TO REMAIN

T NEW EQUIPMENT BY OWNER

 $\langle U \rangle$ OVERHEAD DOOR TRACKS, TYP.

 $\langle V \rangle$ POWER WASHER, SEE MECH. DWGS.

 $\langle W \rangle$ PLUMBING FOR RETRACTABLE HOSE, SEE PLUMBING DWGS.

CEILING DEVICE LEGEND

MOISTURE RESISTANT GYP BD CEILING
RECESSED LED LIGHT FIXTURES, SEE ELECTRICAL DWGS.
NEW LED STRIP LIGHT FIXTURE, SEE ELECT. DWGS.
NEW HIGH BAY LED LIGHTS, SEE ELECT. DWGS.
$\sqrt{2}$ EXIT LIGHT, SEE ELECTRICAL DWGS.
DIFFUSER, SEE MECH. DWGS.
EXHAUST FAN, SEE MECH. DWGS.
BUG EYE LIGHT, SEE ELECTRICAL DWGS.
NEW AIR DIFFUSER
S EXISTING SPEAKER
INFRARED HEATER, SEE MECH. DWGS.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



MICHAEL S. SUNDERMEYER License Number:2014026855 Expiration Date: 12/31/24 **PROFESSIONAL SEAL** CASCO Diversified Corporation MO Certificate of Authority #000329 Arch.

MO Certificate of Authority #000613 Eng.



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

MISSOURI NATIONAL GUARD

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

PROJECT #	T2122-01
SITE #	6300
ASSET#	8136300017

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE:

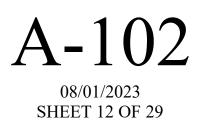
ISSUE DATE: 08/01/2023

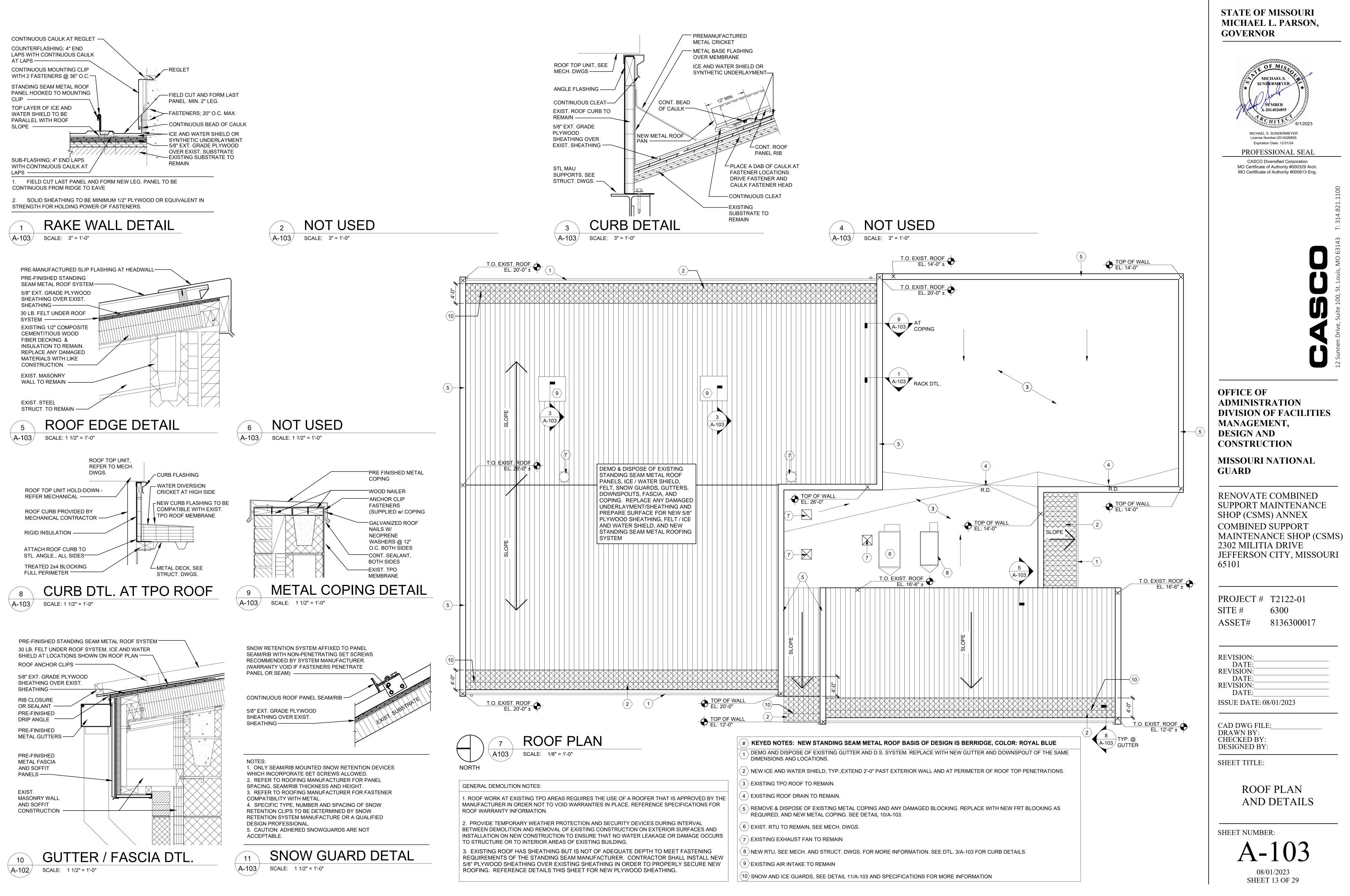
CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

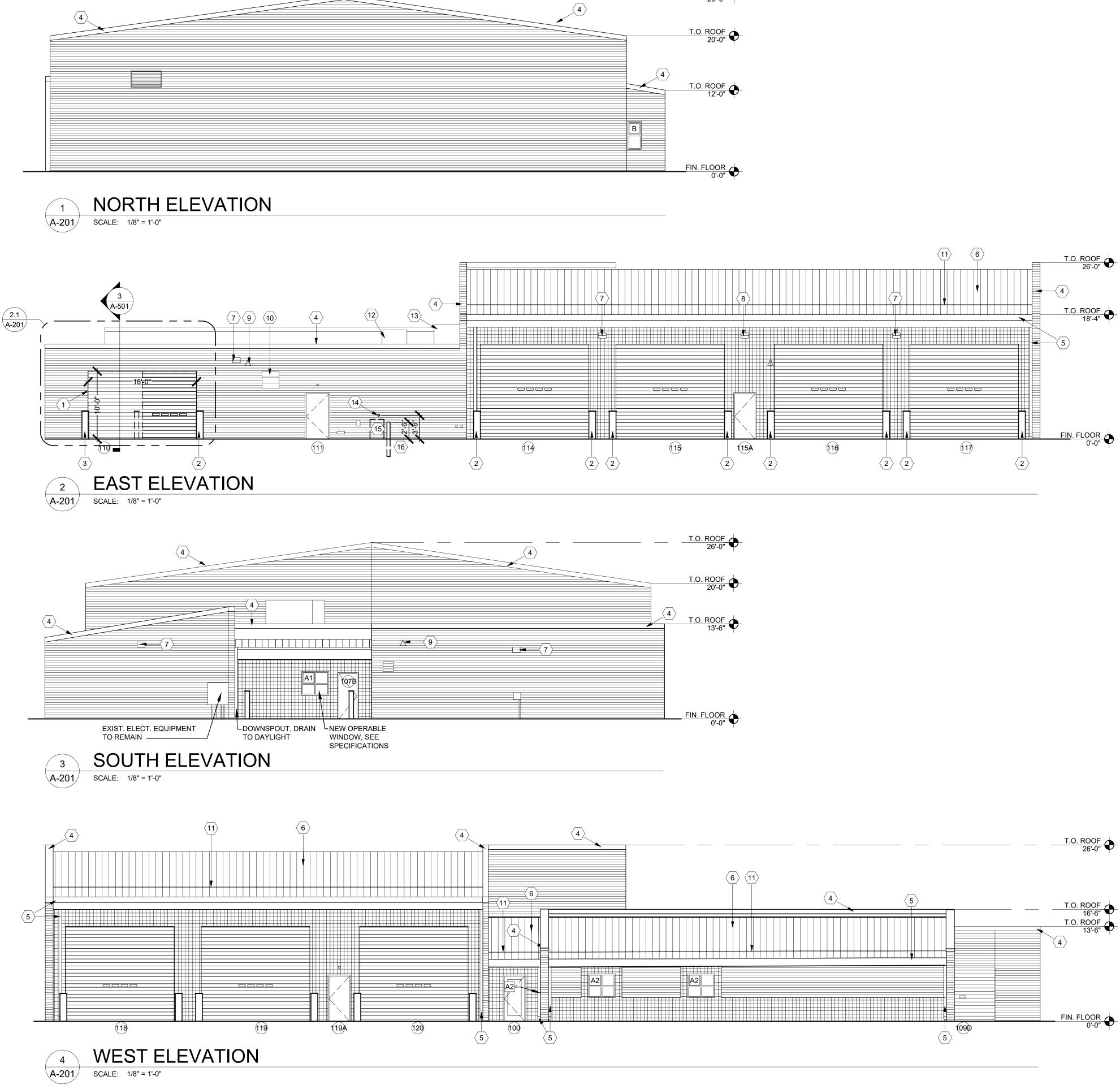
SHEET TITLE:

FLOOR PLAN AND REFLECTED **CEILING PLANS**

SHEET NUMBER:









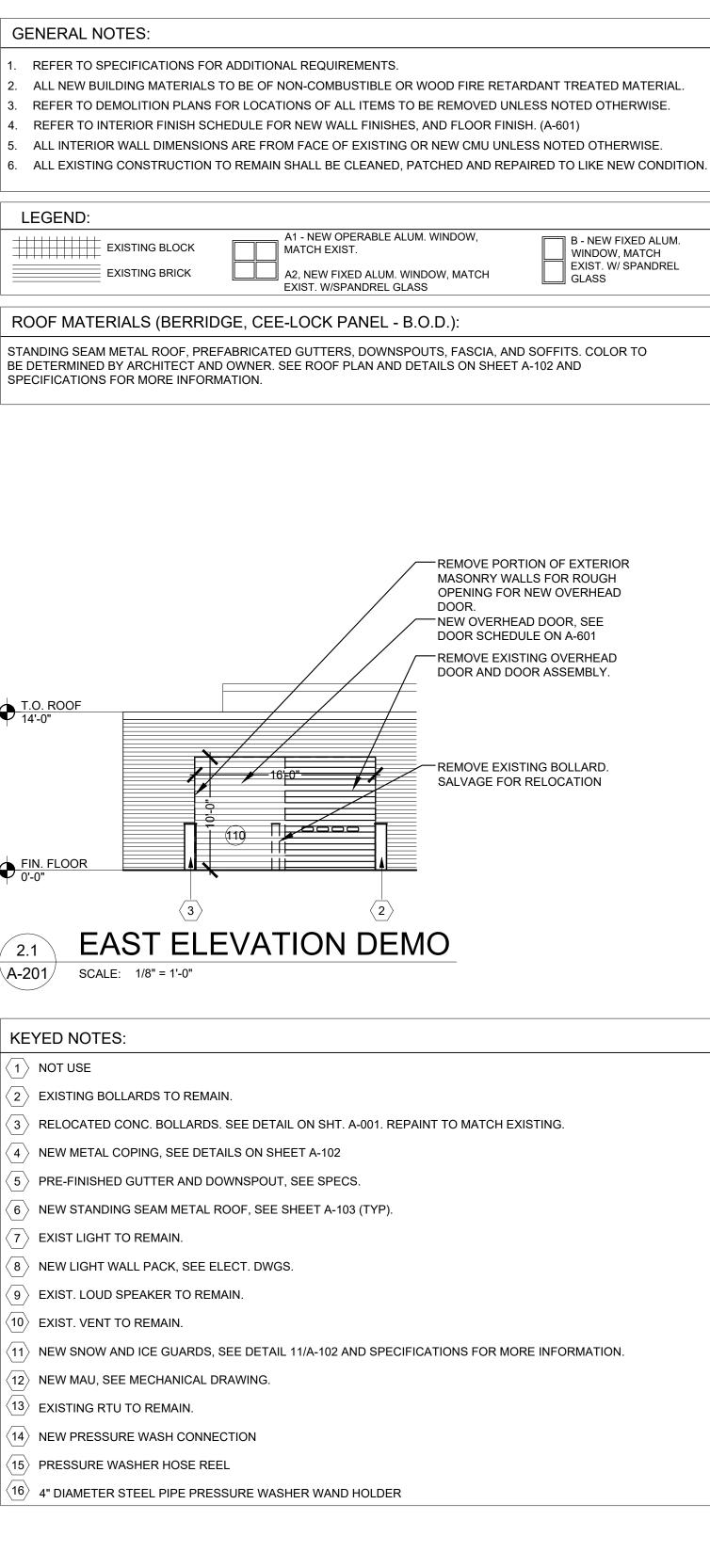
2.7 A-20		EA SCALE:	
KE	YED I	NOTES	
$\langle 1 \rangle$	NOT L	JSE	
$\langle 2 \rangle$	EXIST	ING BOLL	
$\langle 3 \rangle$	RELO	CATED C	C
$\langle 4 \rangle$	NEW	METAL CO	2
(5)	PRE-F	INISHED	(
$\langle 6 \rangle$	NEW	STANDIN	3
$\langle 7 \rangle$	EXIST	LIGHT TO	2
$\langle 8 \rangle$	NEW	LIGHT WA	
$\langle 9 \rangle$	EXIST	. LOUD S	F
(10)	EXIST	. VENT TO	2
$\langle 11 \rangle$	NEW	SNOW AN	
(12)	NEW	MAU, SEE	
(13)	EXIST	ING RTU	٦
(14)	NEW	PRESSUR	2
(15)	PRES	SURE WA	
$\langle 16 \rangle$	4" DIA	METER S	;-

<u>T.O. ROOF</u> 14'-0"	

FIN. FLOOR 0'-0"

6. ALL EXISTING
LEGEND:
<u>++++++++</u> е
E
ROOF MATER

1.	REFER TO SPE
2.	ALL NEW BUILI
3.	REFER TO DEM
4.	REFER TO INT
5.	ALL INTERIOR



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



MICHAEL S. SUNDERMEYER License Number:2014026855 Expiration Date: 12/31/24 **PROFESSIONAL SEAL** CASCO Diversified Corporation MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.

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

MISSOURI NATIONAL GUARD

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

PROJECT #	T2122-01
SITE #	6300
ASSET#	8136300017

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUE DATE: 08/01/2023

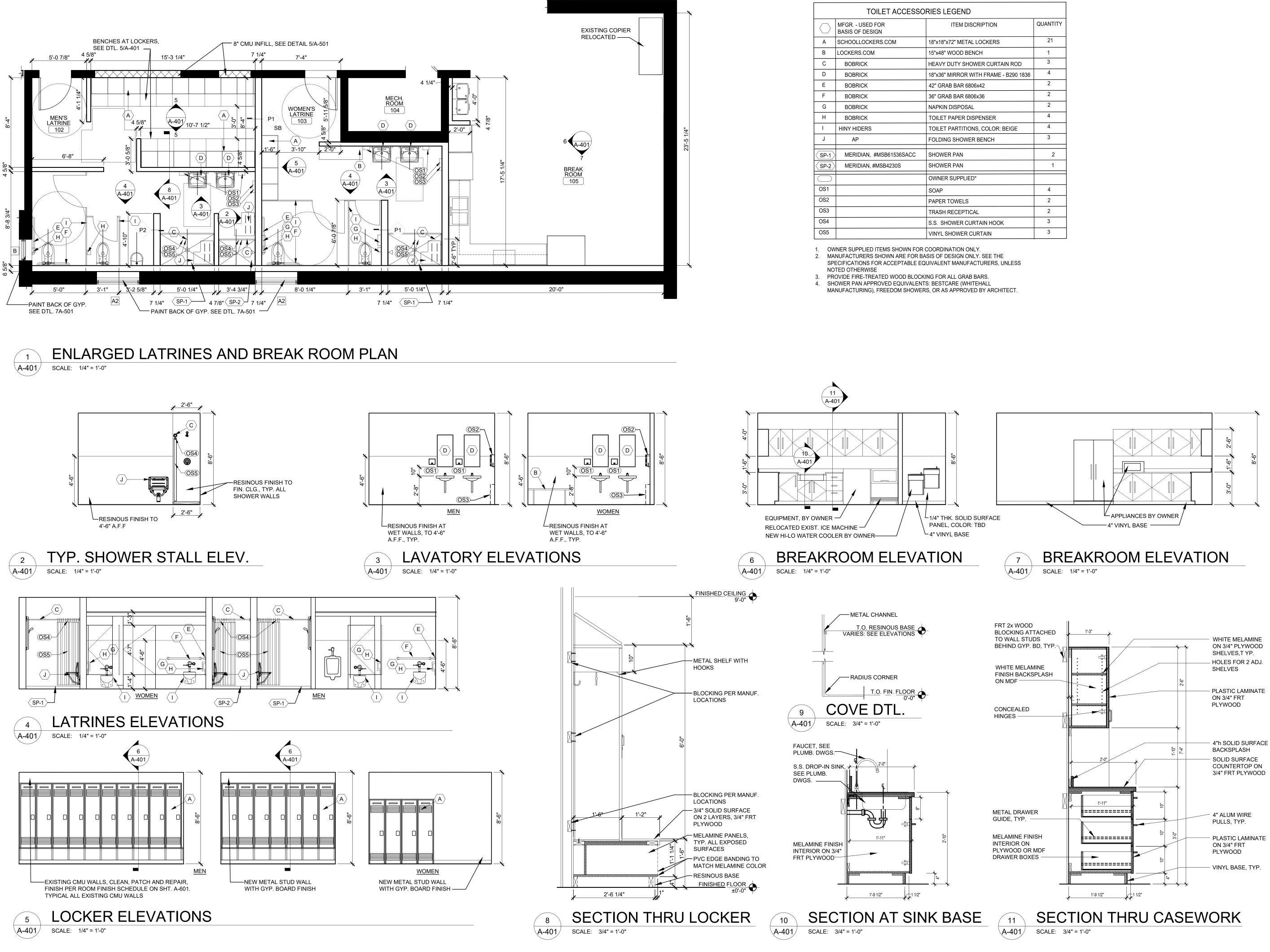
CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY:

SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NUMBER:

A_20 08/01/2023 SHEET 14 OF 29



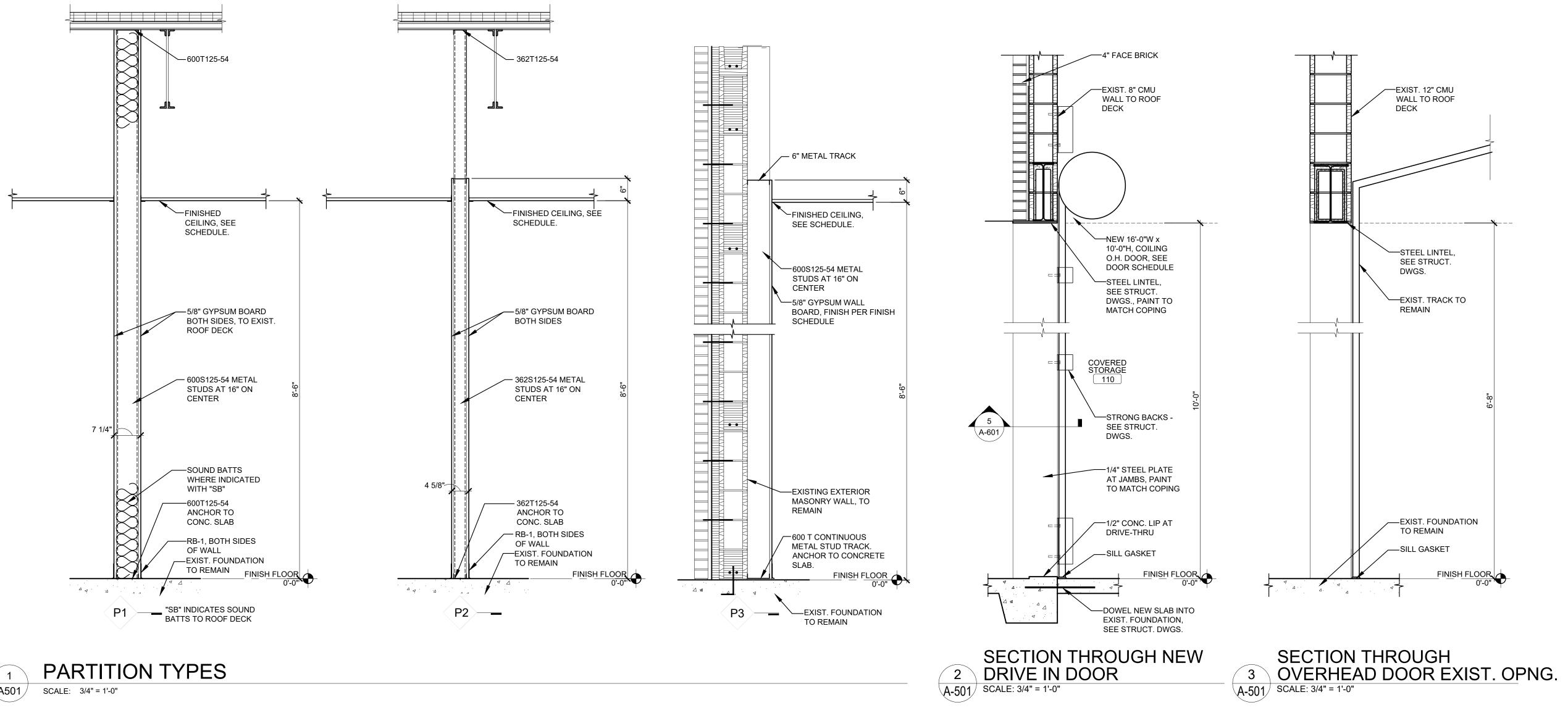
TOILET ACCESSORIES LEGEND							
\bigcirc	MFGR USED FOR ITEM DISCRIPTION BASIS OF DESIGN						
А	SCHOOLLOCKERS.COM	18"x18"x72" METAL LOCKERS	21				
В	LOCKERS.COM	15"x48" WOOD BENCH	1				
С	BOBRICK	HEAVY DUTY SHOWER CURTAIN ROD	3				
D	BOBRICK	18"x36" MIRROR WITH FRAME - B290 1836	4				
Е	BOBRICK	42" GRAB BAR 6806x42	2				
F	BOBRICK	36" GRAB BAR 6806x36	2				
G	BOBRICK	NAPKIN DISPOSAL	2				
Н	BOBRICK	TOILET PAPER DISPENSER	4				
I	HINY HIDERS	TOILET PARTITIONS, COLOR: BEIGE	4				
J	AP	FOLDING SHOWER BENCH	3				
(SP-1)	MERIDIAN, #MSB61536SACC	SHOWER PAN	2				
SP-2	MERIDIAN, #MSB4230S	SHOWER PAN	1				
\bigcirc		OWNER SUPPLIED*					
OS1		SOAP	4				
OS2		PAPER TOWELS	2				
OS3		TRASH RECEPTICAL	2				
OS4		S.S. SHOWER CURTAIN HOOK	3				
OS5		VINYL SHOWER CURTAIN	3				

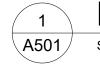
	L'és t			8/1/20	023	
	E E PROF	O Divers ate of Au	er:2014026 ate: 12/31/2 DNAL ified Corp thority #0	855 24 25 SEA 00ration 00329 A	rch.	
AD] DIV	FICE C MINIS /ISION	TRA I OF	FAC		TIE	S
ADI DIV MA DES COI MIS GUA REN SUF SHC CON MA 2302	MINIS /ISION NAGE SIGN A NSTRU SSOUR ARD NOVAT PORT OP (CSI MBINE INTEN 2 MILI FERSC	TRA ME ME JCT JCT CINA MA MA MA MA MA MA MA MA MA MA MA MA MA	FAC NT, ION ATIC OME NTE ANN JPPC CE SI DRIV	DNA DNA BINE ENA IEX DRT HOP	L ED NCE 9 (CS	E
ADI DIV MA DES COI MIS GUA REN SUF SHC CON MA 2302 JEF 6510 	MINIS VISION NAGE SIGN A NSTRU SSOUR ARD NOVAT PORT PORT OP (CSI MBINE INTEN 2 MILI FERSC 01 DJECT	TRA ME ME JCT JCT TIA TE C MA MA MS J D SU ANC TIA D SU ANC TIA TIA MS MS MS MS MS MS MS MS MS MS MS MS MS	FAC NT, ION ATIC OME NTE ANN JPPC CE SI DRIV ITY, 2122 300	ONA BINE DRT HOP VE MIS	L ED NCE 9 (CS	E
ADI DIV MA DES COI MIS GUA REN SUF SHC CON MA 2302 JEF 6510 PRC SITI ASS REV REV REV	MINIS /ISION NAGE SIGN / NSTRU SOUR SOUR ARD VOVAT PORT PORT PORT PORT PORT PORT PORT OF (CSI MBINE INTEN 2 MILI' FERSC 01 DJECT E # SET# ISION: DATE: ISION: DATE:	TRA OF MEN JCT CT INA DSU ANC TIA DSU ANC TIA MS) ZD SU ANC TIA MS) ZD SU ANC TIA S ANC TIA B ANC ANC ANC ANC ANC ANC ANC ANC	FAC NT, ION ATIC OME NTE ANN JPPC CE SI DRIV ITY, 2122 300 1363	DNA BINE DRT HOP VE MIS -01 0001	L ED NCE 9 (CS	E
ADI DIV MA DES COI MIS GU/ REN SUF SHC CON MA 230/ JEF 6510 	MINIS /ISION NAGE SIGN A NSTRU SSOUR ARD NOVAT PORT PORT PORT PORT PORT DP (CSI MBINE INTEN 2 MILI' FERSC 01 DJECT E # SET# ISION: DATE: ISION:	TRA OF ME JCT JCT INA JCT INA JCT INA JCT INA FE COMAN MANO JCT INA FE COMAN MANO JD SU ANO ANO JD SU ANO ANO <	FAC NT, ION ATIC OME NTE ANN JPPC CE SI DRIV ITY, 2122 300 1363	DNA BINE DRT HOP VE MIS -01 0001	L ED NCE 9 (CS	E

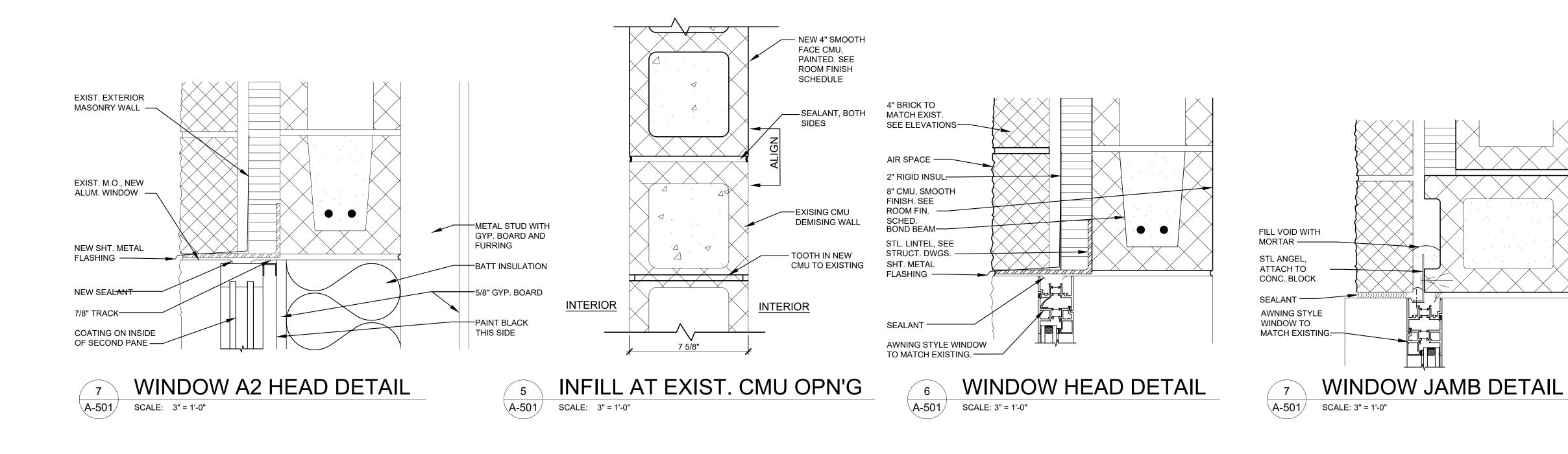
08/01/2023

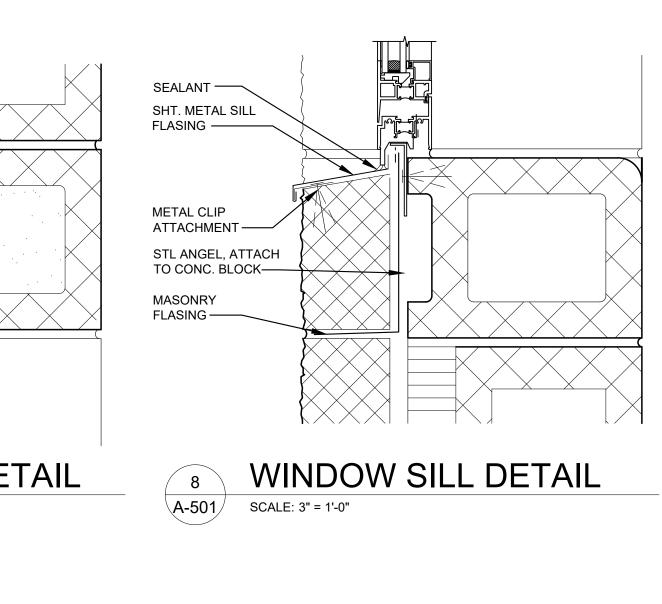
SHEET 15 OF 29

STATE OF MISSOURI









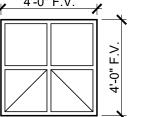
	STORE OF	F MISS	ADD-	
	H	CHAELS. ERMEYER		•
	E DA	MIDED		
	A-2	014026855		
		SUNDERMEY		3
		mber:20140268 1 Date: 12/31/24 ONAL S	1	
	CASCO Diver 10 Certificate of A 10 Certificate of A	uthority #000	329 Arch.	
				Q
				314.821.1100
				43 T:
			ſ	631
				uis. Mo
				St. Loi
			ſ	e 100.
			U	e, Suit
				en Driv
			ſ	12 Sunnen Drive, Suite 100, St. Louis, MO
				12
MAN DESI CON	SION OF AGEME GN AND STRUCT	NT, ION	(LIT)	ES
MAN DESI CON MISS GUAI	SION OF AGEME GN AND STRUCT OURI NA RD	' FAC] NT, ION ATIOI	ILITI NAL	ES
MAN DESI CON MISS GUA RENC	SION OF AGEME GN AND STRUCT OURI NA RD	FACINT,	NAL NED	
MAN DESI CON MISS GUA RENC SUPP SHOF	SION OF AGEME GN AND STRUCT OURI NA RD	FACINT,	NAL NED NED NED NANC EX	
MAN DESI CON MISS GUA RENC SUPP SHOF COM MAIN	SION OF AGEME GN AND STRUCT OURI NA OURI NA OVATE C ORT MA (CSMS) BINED S UTENAN	FACINT,	NAL NED NANC EX RT OP (0	CE
MAN DESI CON MISS GUA RENC SUPP SHOF COM MAIN 2302 JEFFI	SION OF AGEME GN AND STRUCT OURI NA OURI NA OVATE C ORT MA (CSMS) BINED S ITENAN MILITIA ERSON C	FACINT,	NAL NED NANC EX RT OP (C E	CE CSMS
MAN DESI CON MISS GUA RENC SUPP SHOF COM MAIN 2302	SION OF AGEME GN AND STRUCT OURI NA OURI NA OVATE C ORT MA (CSMS) BINED S ITENAN MILITIA ERSON C	FACINT,	NAL NED NANC EX RT OP (C E	CE CSMS
MAN DESI CON MISS GUA RENC SUPP SHOF COM MAIN 2302 JEFFI 65101	SION OF AGEME GN AND STRUCT OURI NA OURI NA OVATE C ORT MA (CSMS) BINED S NTENAN MILITIA ERSON C	FACINT, NT, ION ATION ATION INTEN ANNE UPPO CE SH DRIV ITY, N	NAL NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUA RENC SUPP SHOF COM MAIN 2302 JEFFI 65101	SION OF AGEME GN AND STRUCT OURI NA OURI NA OVATE C ORT MA (CSMS) BINED S ITENAN MILITIA ERSON C	FACINT, NT, ION ATION ATION INTEN ANNE UPPO CE SH DRIV ITY, N	NAL NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUA RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 	SION OF AGEME GN AND STRUCT OURI NA OURI NA OVATE C ORT MA (CSMS) BINED S ITENAN MILITIA ERSON C	FACINT, ION ATION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV ITY, N	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUA RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 	SION OF AGEME GN AND STRUCT OURI NA RD OVATE C ORT MA (CSMS) BINED S ITENAN MILITIA ERSON C ECT # 1 # 6	FACINT, ION ATION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV ITY, N	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS	SION OF AGEME GN AND STRUCT OURI NA RD OVATE C ORT MA (CSMS) BINED S NTENAN MILITIA ERSON C ECT # 1 # 6 T# 8	FACINT, ION ATION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV ITY, N	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS	SION OF AGEME GN AND STRUCT OURI NA RD OVATE C ORT MA (CSMS) BINED S NTENAN MILITIA ERSON C ECT # 1 # 6 T# 8	FACINT, ION ATION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV ITY, N	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS REVIS DA	SION OF AGEME GN AND STRUCT OURI NA OURI NA RD OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA ORT MA SINED S INED S INE A S INE A S INE A S INE S INE	FACINT, NT, ION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV ITY, N 2122-0 300 13630	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS REVIS DA	SION OF AGEME GN AND STRUCT OURI NA RD OVATE C ORT MA (CSMS) BINED S NTENAN MILITIA ERSON C ECT # 1 # 6 T# 8	FACINT, NT, ION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV ITY, N 2122-0 300 13630	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS REVIS DA REVIS DA REVIS DA	SION OF AGEME GN AND STRUCT OURI NA OURI NA RD OVATE C ORT MA (CSMS) BINED S NTENAN MILITIA ERSON C HILITIA ERSON C ECT # 1 # 6 T# 8	FACINT, ION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV 1TY, N 2122-0 300 13630 13630	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS DA REVIS DA REVIS DA REVIS DA	SION OF AGEME GN AND STRUCT OURI NA RD OVATE C ORT MA (CSMS) BINED S VTENAN (CSMS) BINED S VTENAN MILITIA ERSON C ECT # 1 # 6 T# 8	FACINT, ION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV 1TY, N 2122-0 300 13630 13630	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS REVIS D REVIS D REVIS D REVIS	SION OF AGEME GN AND STRUCT OURI NA OURI NA RD OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA C SMS STENAN MILITIA ERSON C MILITIA ERSON C MILITIA ERSON C MILITIA ERSON C	FACINT, ION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV 1TY, N 2122-0 300 13630 13630	NAL NED NANC EX RT OP (C E MISSO	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS REVIS D REVIS D REVIS D REVIS	SION OF AGEME GN AND STRUCT OURI NA OURI NA RD OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA C SMS NED S NTENANG MILITIA ERSON C ECT # 1 # 6 T# 8 ION: 	FACINT, ION ATION ATION OMBINTEN ANNE UPPO CE SH DRIV TY, N 2122-0 300 13630 13630	NAL NED NANCEX RT OP (CE //ISSO 01 0017	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS REVIS DA REVIS DA REVIS DA	SION OF AGEME GN AND STRUCT OURI NA OURI NA RD OVATE C ORT MA (CSMS) BINED S ITENAN MILITIA ERSON C ECT # 1 # 6 T# 8 ION: ERSON C ECT # 1 # 6 T# 8	FACINT, NT, ION ATION OMBINTEN ONNE	NAL NED NANCEX RT OP (C E //ISSC	CE CSMS
MAN DESI CON MISS GUAI RENC SUPP SHOF COM MAIN 2302 JEFFI 65101 PROJ SITE ASSE REVIS REVIS DA REVIS DA REVIS DA REVIS	SION OF AGEME GN AND STRUCT OURI NA OURI NA RD OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA OVATE C ORT MA C SMS NED S NTENANG MILITIA ERSON C ECT # 1 # 6 T# 8 ION: 	FACINT, NT, ION ATION ATION OMBINTEN OMBINEN OMBINEN	NAL NED NANCEX RT OP (C E //ISSC	CE CSMS

08/01/2023 SHEET 15 OF 29

	ROOM FINISH SCHEDULE									
			WA	WALLS			LOOR	CEIL	ING	
SYM.	ROOM	NORTH	WEST	SOUTH	EAST	FLOOR BASE	FLOOR	MATERIAL	FINISH	COMMENTS
100	VESTIBULE	PT-1	PT-1	PT-1	PT-1	RB-1	VCT	EXIST	EXIST	RF-1 SEE INTERIOR ELEVATIONS FOR EXTENT OF FINISH
101	CORRIDOR	PT-1	PT-1	PT-1	PT-1	RB-1	VCT	ACT	-	
102	MEN'S LATRINE	PT-2	PT-2	PT-2	PT-2	RF-1	RF-1	GBC	PT-3	RF-1 SEE INTERIOR ELEVATIONS FOR EXTENT OF FINISH
103	WOMEN'S LATRINE	PT-2	PT-2	PT-2	PT-2	RF-1	RF-1	GBC	PT-3	RF-1 SEE INTERIOR ELEVATIONS FOR EXTENT OF FINISH
104	MECH. ROOM									NO WORK
105	BREAKROOM	PT-1	PT-1	PT-1	PT-1	RB-1	VCT	ACT	N/A	
106	SUPPLY OFFICE	PT-1	PT-1	PT-1	PT-1	RB-1	CONC1	EXP	PT-4	
107	OFFICE	PT-1	PT-1	PT-1	PT-1	RB-1	CONC1	ACT	N/A	
108	NOT USED									
109	BULK STORAGE	PT-1	PT-1	PT-1	PT-1	N/A	CONC1	EXP	N/A	
110	COVERED STORAGE	PT-1	PT-1	PT-1	PT-1	N/A	CONC1	EXP	N/A	
111	FMS	N/A	N/A	N/A	N/A					NO FINISH WORK
112	CUSTODIAL ROOM	N/A	N/A	N/A	N/A					NO FINISH WORK
113	BATTERY ROOM	N/A	N/A	N/A	N/A					NO FINISH WORK
114- 120	WORK BAY	N/A	N/A	N/A	N/A					NO FINISH WORK
	WORK BAY					, AND EXIST	ING OVERHE	AD DOOR TO BU	JLK STORAGE	

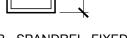
DOOR SCHEDULE

		-				_							
		SIZE		IZE DOOR		FRAME							
SYM.	ROOM							HEAD DETAIL	JAMB DETAIL			HWR. GROUP	COMMENTS
		WIDTH	HEIGHT	MATERIAL	TYPE	MATERIAL	TYPE						
102	CORRIDOR TO MEN'S LATRINE	3'-0"	7'-0"	H.M.	А	H.M.	1	3/A601	4/A601	2			
103	CORR. TO WOMEN'S LATRINE	3'-0"	7'-0"	H.M.	A	H.M.	1	3/A601	4/A601	2			
105	BREAK ROOM TO EXTERIOR	3'-0"	7'-0"	H.M.	В	H.M.	1	-	-	1			
107	SUPPLY OFFICE TO OFFICE	3'-0"	7'-0"	H.M.	В	H.M.	1	3/A601	4/A601	3			
109	BULK STORAGE TO WORK BAY 14	6'-0"	7'-4"	METAL	С	-	-	-	-	-	MOUNT TRACKS AND DOOR HOUSING ON WORK BAY SIDE		
110	COVERED STORAGE	16'-0"	10'-0"	METAL	С	-	2	2/A-501	5/A-601	-	HARDWARE PER MANUFACTURER STANDARD		
114- 120	WORK BAY	16'-0"	14'-0"	METAL	D	-	2	-	-	-	HARDWARE PER MANUFACTURER STANDARD REUSE EXISTING TRACKS		
	4'-0"	F.V.		2'-0" F.V		-		•			•		





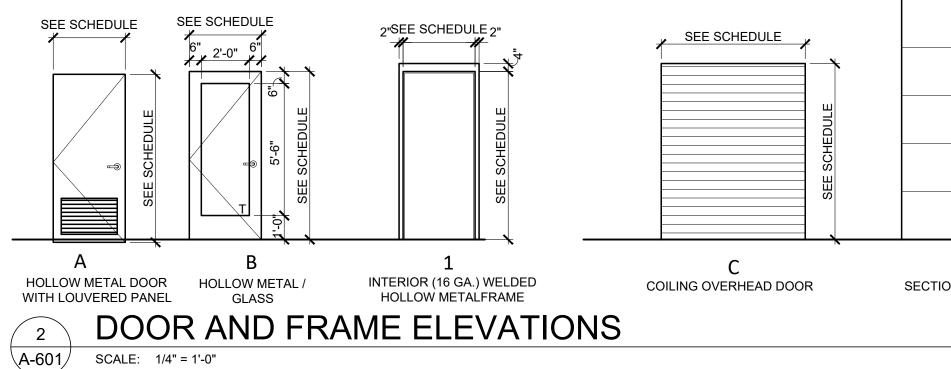
A1 - CLEAR A2 - SPANDREL, FIXED



B - SPANDREL, FIXED



HOLLOW METAL DOORS AND FRAMES TO BE FACTORY PRIMED AND RECEIVE 2 COATS OF PT-5



	FINISH LEGEND:
	ALL PRODUCTS LISTED ARE USED AS BASIS OF DESIGN, SEE SPECIFICATIONS FOR EQUIVALENT MATERIALS
FLOOR	ING / COVE BASE MATERIALS:
(CONC1)	GEMITE GEM-COTE EP 100 (CLEAR) CONCRETE EPOXY COATING.
(RF-1)	RESINOUS FINISH COATING "STONE SHIELD SLT, "DRIFTWOOD" - LOCKER / LATRINE FLOORS & WALLS TO 4'-6" A.F.F. (AT WET WALLS AND TO CEILING IN SHOWER STALLS, SEE INTERIOR ELEVATIONS),
RB-1	4" RUBBER WALL BASE - JOHNSONITE, COLOR: TA6, BEDROCK CG.
SS-1	SOLID SURFACE FOR COUNTERTOPS AND BENCH SEATING SURFACE. FORMICA, COLOR: 408 LUNA BRITE WHITE.
VCT	VINYL COMPOSITE TILE - TARKETT, COLOR: 1314 WHITE / GREY
WALL N	MATERIALS / FINISHES:
PT-1	WATER BORNE EPOXY PAINT - SEMI-GLOSS, MATCH EXISTING COLOR
(PT-2)	SHERWIN-WILLIAMS, SW PRO INDUSTRIAL PRE-CATALYZED, WATER BASED EPOXY, MATCH SW 7008 ALABASTER, SEMI-GLOSS SHEEN
PT-3	SHERWIN-WILLIAMS, SW PRO INDUSTRIAL PRE-CATALYZED, WATER BASED EPOXY, MATCH SW 7007 CEILING BRIGHT WHITE, SEMI-GLOSS SHEEN
PT-4	SHERWIN-WILLIAMS, PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL, WHITE
PT-5	SHERWIN-WILLIAMS - FOR HOLLOW METAL DOORS & FRAMES, COLOR: MATCH RUBBER BASE COLOR
	<u>GS:</u>
GBC	5/8" MOISTURE RESISTANT GYPSUM BOARD
EXP	EXPOSED STRUCTURE
ACT	ARMSTRONG, 2'x2' ACOUSTIC CEILING TILES, CORTEGA
MISC:	
PL-1	PLASTIC LAMINATE PANELS - EXTERIOR FACE OF CABINETS, OCTOLAM, COLOR: 1057 ASH GREY (WHITE MELAMINE PANELS - INTERIOR FACE OF CABINETS & DRAWINGS, AND

HARDWARE GROUPS:

EXPOSED SURFACES OF LOCKER ROOM BENCHES)

<u>GROUP #1</u>

1 1/2 PAIR - HAGER (BOD) NRP HINGES, 4-1/2" X 4-1/2" 626 SATIN CHROME FINISH (US26D) (STANLEY, BALDWIN) 1 LOCKSET - FALCON 626 (BEST REMOVABLE 7 PIN CORE, BY OWNER) 3 DOOR SILENCERS - BALDWIN (BOD) #4036 (IVES, ROCKWOOD)

- 2 KICKPLATES 10" HIGH X FULL WIDTH OF DOOR MOUNTED ON BOTH SIDES, 1" ABOVE BOTTOM OF DOOR 1 CLOSER - LCN (BOD) 4011T WITH METAL COVER (NORTON, DORMAKABA)
- 1 EXTERIOR LEVER SCHLAGE LEVER (BOD) (626) (FALCON, VON DUPRIN)
- 1 EXIT DEVICE VON DUPRIN (BOD) 98 / 99 SERIES (FALCON, HAGER) THRESHOLD

<u>GROUP #2</u>

1 1/2 PAIR - HAGER (BOD) HINGES, 4-1/2" X 4-1/2" 626 SATIN CHROME FINISH (US26D) (STANLEY, BALDWIN) 1 PUSH PLATE - IVES (BOD) US32D, 8200 X 8 X 16

1 PULL PLATE - IVES (BOD) US32D, 8302 -8 X 6 X 16 3 DOOR SILENCERS - BALDWIN (BOD) #4036 (IVES, ROCKWOOD)

1 WALL BUMPER - IVES (BOD) US32D, WS406 / 407-CCV

2 KICKPLATES - 10" HIGH X FULL WIDTH OF DOOR MOUNTED ON BOTH SIDES, 1" ABOVE BOTTOM OF DOOR

1 CLOSER - LCN (BOD) 4021T WITH METAL COVER (NORTON, DORMAKABA)

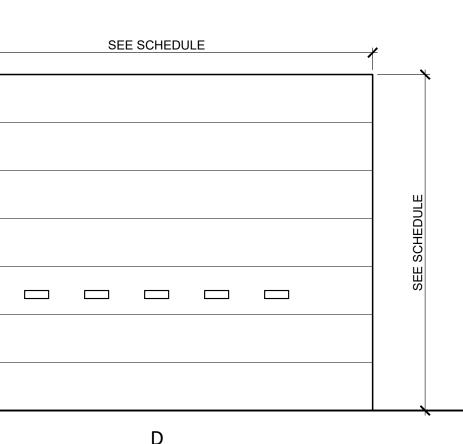
GROUP #3

1 1/2 PAIR - HAGER (BOD) HINGES, 4-1/2" X 4-1/2" 626 SATIN CHROME FINISH (US26D) (STANLEY, BALDWIN) 1 CLASSROOM LOCKSET - FALCON 626 (BEST REMOVABLE 7 PIN CORE, BY OWNER) 3 DOOR SILENCERS - BALDWIN (BOD) #4036 (IVES, ROCKWOOD)

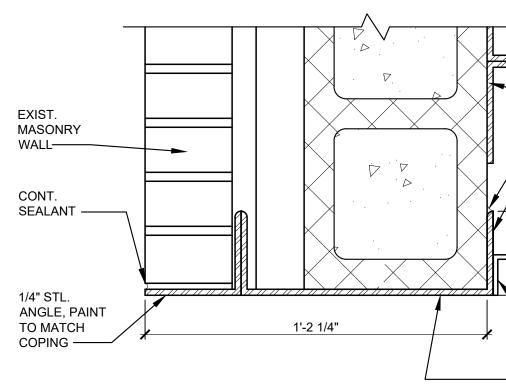
1 WALL BUMPER - IVES (BOD) US32D, WS406 / 407-CCV

2 KICKPLATES - 10" HIGH X FULL WIDTH OF DOOR MOUNTED ON BOTH SIDES, 1" ABOVE BOTTOM OF DOOR

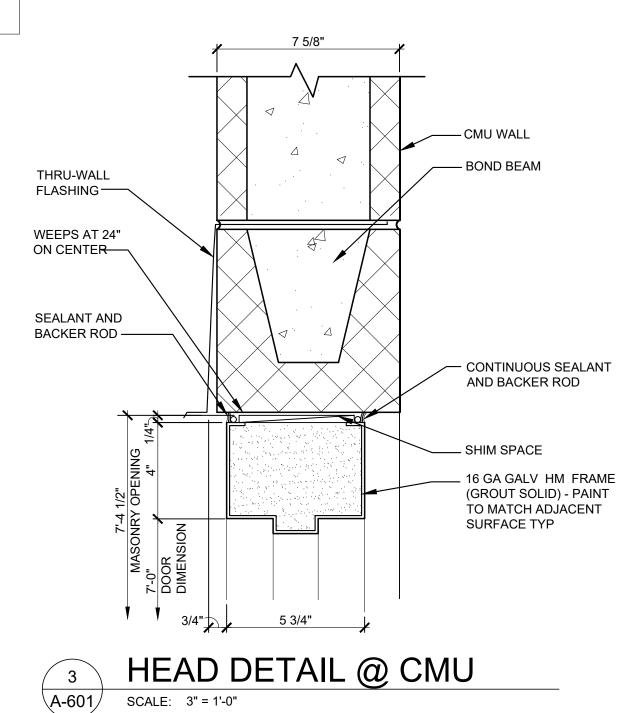
1 CLOSER - LCN (BOD) 4021T WITH METAL COVER (NORTON, DORMAKABA)

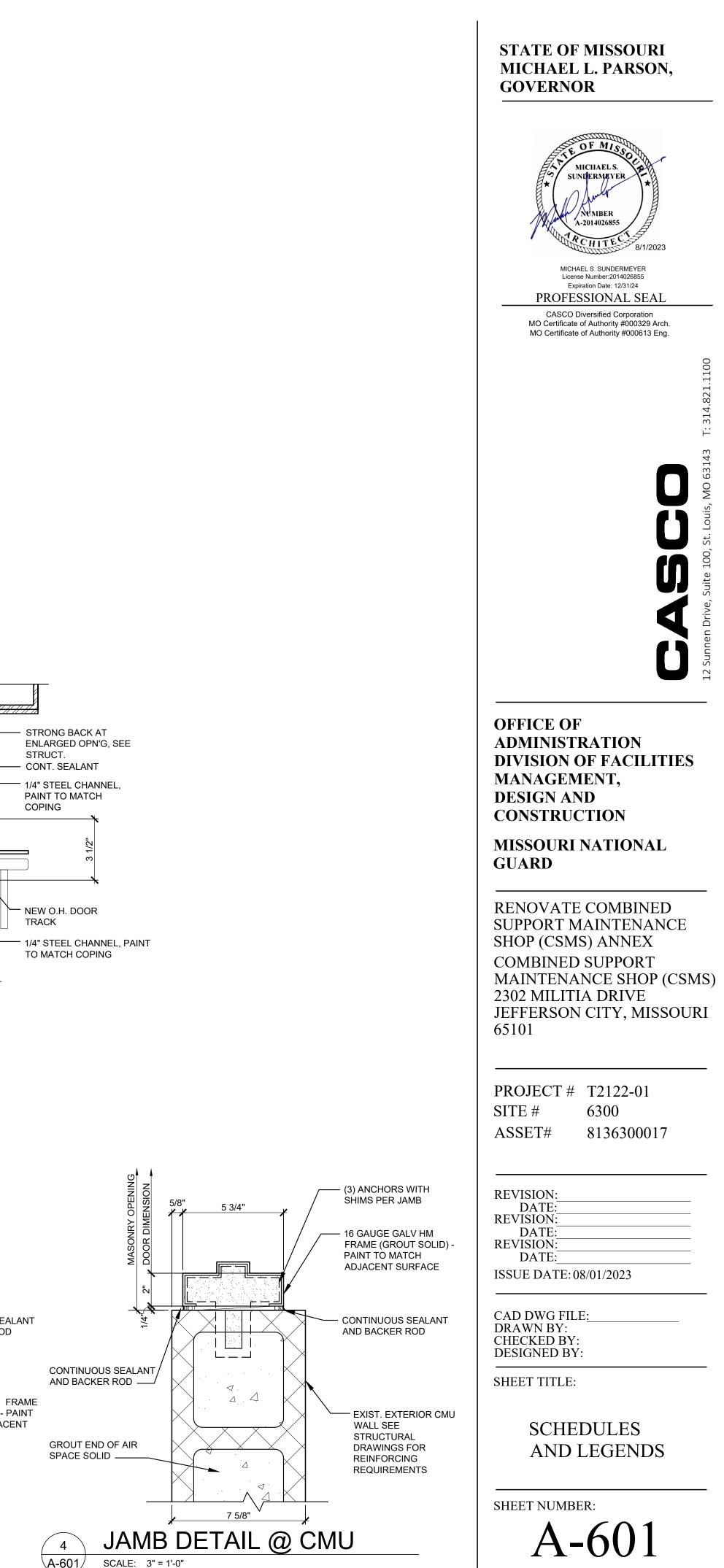






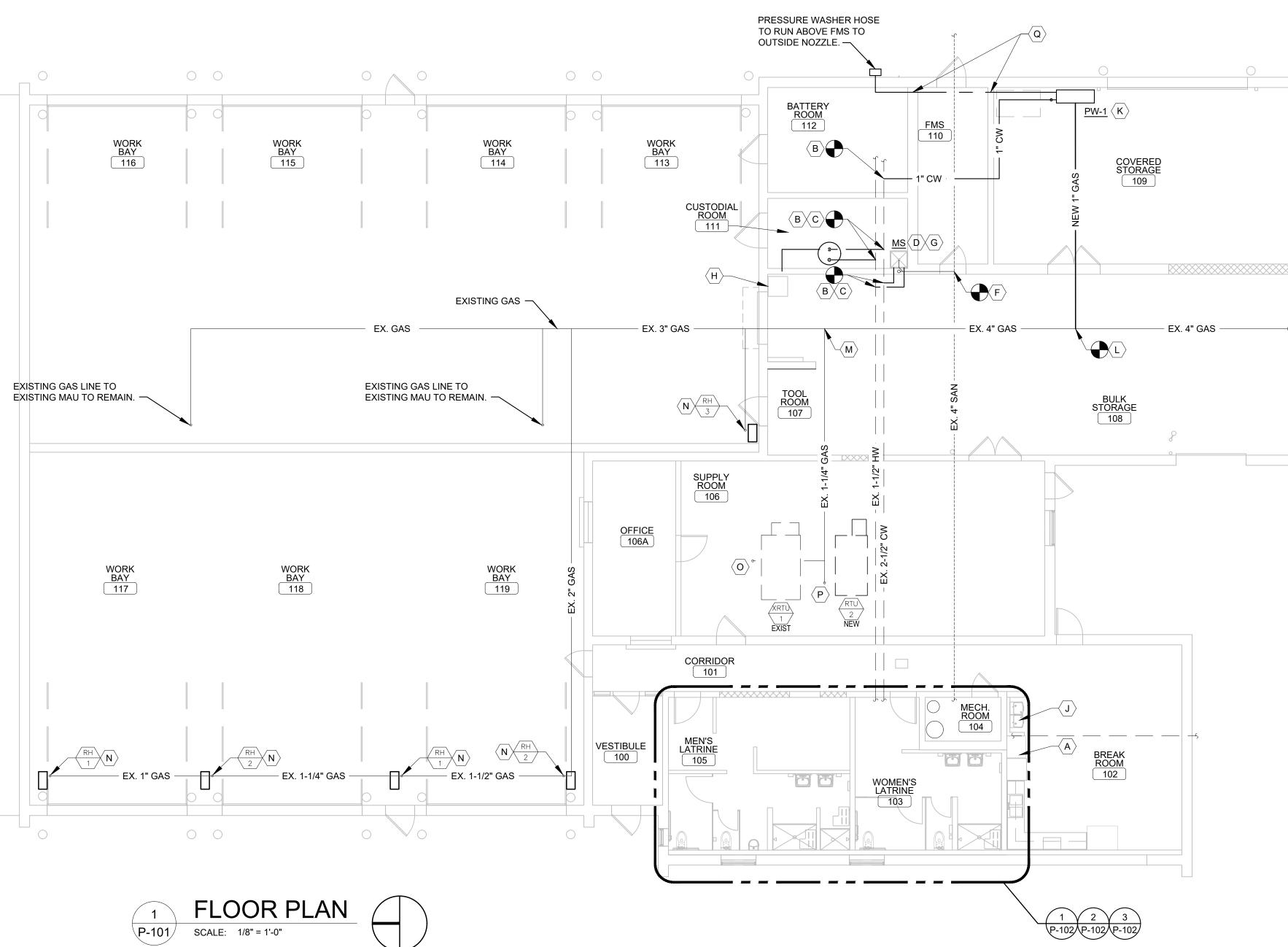


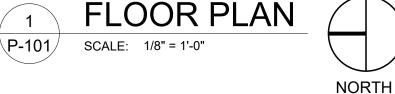




A-601

08/01/2023 SHEET 16 OF 29





PRESSURE WASHER SYSTEM SCHEDULE

ID	MANUFACTURER	MODEL #	ТҮРЕ	WATER	r			STEAM			ELEC						WEIGHT	EQUIVALENT MANUF	EQUIVALENT MANUF
	(BASIS OF DESIGN)			HOT	COLD	GPM	PSI	TEMP	LBS/HR	PSI	HP	VOLTS	PHASE	HZ	CFH	IN.W.C.	(LBS)	MODEL #	MODEL #
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	DELCO MODEL: 65044	EASY-KLEEN MODEL: EZN3004-3
			WASHER STSTEM																

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

5. 100 FEET OF HIGH PRESSURE STEAM HOSE -- DISCHARGE

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

	# KEYED NOTES:
	A REUSE EXISTING ICE CONNECT TO NEW 1/
	B CONNECT NEW COLD VALVE IN AN EASILY
	C CONNECT NEW HOT
	D CONNECT NEW FIXTUNE NEW SHUTOFF VALV
	E NOT USED.
	F CONNECT NEW SANI OUT.
	G INSTALL CHECK VALV
	H EXISTING WASHER /
	$\langle J \rangle$ NEW HI-LO WATER C
	$\langle \mathbf{K} \rangle$ connect new gas
	L CONNECT NEW 1" GA
EXISTING GAS METER	M EXISTING 1-1/4" GAS
WITH EXISTING 4" LINE ENTERING BUILDING	N RECONNECT NEW BU
	$\langle 0 \rangle$ EXISTING GAS LINE T
	$\langle P angle$ EXISTING GAS LINE T
	$\langle Q \rangle$ provide minimum p

		PLUMBING	FL	XΤΙ	JRI	ES	CHEDULE
MARK	FIXTURE	BASIS OF DESIGN MANUFACTURER & MODEL #			ONNEC		REMARKS
TMV	THERMAL MIXING VALVE	WATTS LFMMV: 1/2 INCH	CW 1/2"	HW 1/2"		V 	SHALL CONFORM TO STDS: ASSE 1017, ASSE 1069, ASSE 1070. SET AT 110° F MAX.
wc	WATER CLOSET	AMERICAN STANDARD (ADA), #2257.103	3/4"		4"	2"	WALL HUNG 18" HIGH, VITREOUS CHINA, ELONGATED SIPHON JET, FLUSH VALVE: SLOAN # 111 (LOW CONSUMPTION 1.6 GALLON PER FLUSH) SEAT: CHURCH #255SSC WITH OPEN FRONT. CARRIER: J.R. SMITH #0542F (FLOOR MOUNTED) CARRIER MUST BE COMPACT TYPE.
UR	URINAL (ADA)	AMERICAN STANDARD WASHBROOK #6590.001	1"		2"	1-1/2"	WALL-MOUNT ELONGATED 14" RIM URINAL WITH STRAINER, WHITE VITREOUS CHINA, WASHOUT FLLUCH ACTION, 1" TOP SPUD. PROVIDE WITH SLOAN LEVER OPERATED DIAPHRAM FLUSH VALVE. PROVIDE WITH J.R. SMITH 0636 URINAL SUPORT, MOUNT AS REQUIRED PER ADA.
LAV	LAVATORY	AMERICAN STANDARD "LUCERNE" #0355.012	1/2"	1/2"	1-1/2"	1-1/2"	WALL HUNG LAVATORY #0355.012 WHITE; FAUCET: AMERICAN STANDARD #2275.500 POLISHED CHROME, COLONY SOFT 2-HANDLE, 4 INCH.
<u>MS</u>	SERVICE SINK	FIAT, MODEL: MCB2424	1/2"	1/2"	3"	2"	24" x 24", 10" DEEP, MOLDED STONE MOP SERVICE BASIN WITH STAINLESS STEEL DRAIN. PROVIDE WITH FIAT 830-AA SERVICE FAUCET - CHROME PLATED, 8" CENTERS, WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON STOUT. PROVIDE WITH FIAT 832-AA HOSE AND HOSE BRACKET - 5/8" HEAVY DUTY RUBBER HOSE WITH BRASS COUPLING AT ONE END. 5" X 3" STAINLESS STEEL HOSE BRACKET WITH RUBBER GRIP. PROVIDE WITH FIAT 889-CC MOP HANGER - 24" X 3" STAINLESS STEEL BRACKET WITH THREE (3) RUBBER TOOL GRIPS. PROVIDE WITH FIAT 1239-BB 24" ALUMINUM BUMPER GUARD ON EXPOSED EDGES.
<u>EWC</u>	ELECTRIC WATER COOLER	OASIS, MODEL: PG8ACSL	1/2"		1-1/2"	1-1/2"	BARRIER-FREE UNIVERSAL SPLIT LEVEL ELECTRIC WATER COOLER - SANDSTONE ON GALVANIZED STEEL, WITH STAINLESS STEEL TOP, COOLER SHALL BE RATED FOR 115VAC/1PH. COOLER SHALL DELIVER 8.0 GPH OF 50F WATER, AT 90F AMBIENT TEMPERATURE AND 80F INLET WATER TEMP. BUBBLERS SHALL BE ACTIVATED BY FRONT PADS. COOLER SHALL BE UL LISTED, AND ARI, ANSI A117.1, ADA COMPLIANT. MOUNT AS REQUIRED PER ADA. SEE ALSO ARCHITECTURAL DRAWINGS FOR MOUNTING CONFIGURATION. PROVIDE WITH CANE APRON FOR UPPER UNIT. PROVIDE WITH P-TRAP AND SHUT OFF VALVE.
WHA	WATER HAMMER ARRESTOR	ZURN Z1700 SERIES 300	1"				REFER TO DETAIL 5/P-501 FOR WATER HAMMER SCHEDULE.
FD	FLOOR DRAIN	ZURN Z415B			3"	2"	1/2" TRAP PRIMER CONNECTION, COMBINATION WASTE VENT
<u>TP</u>	TRAP PRIMER	MIFAB M2-500-NPB	1/2"				WATER SAVER TRAP PRIMER W/ CLEANOUT
<u>SF</u>	SHOWER FAUCET	TEMPTROL SHOWER M# C-96-1-X TMV M# 46-2X-BODY	1/2"	1/2"			FLOW RATE 2.5 GPM, ADJUSTABLE SPRAY, THERMAL MIXING VALVE SET FOR 110°F MAX. SEE DETAIL 7/P-501
<u>SD</u>	SHOWER DRAIN	ZURN Z415B FLOOR AND SHOWER DRAIN			3"	2"	CONTRACTOR IS TO INSTALL WITH P-TRAP AND VENT PER CODE. 5" STRAINER DIAMETER.
DF	BARRIER-FREE DRINKING FOUNTAIN	ELKAY MANUFACTURING CO. MODEL NO. (EZTLRDDC)	1/2"		2"	1-1/2"	TWO-STATION, WALL MOUNTED, ELECTRIC DRINKING FOUNTAIN, BARRIER-FREE ACCESS (ADA), FRONT ONLY EASY TOUCH CONTROL, HIGH UNIT ON RIGHT. ELKAY #EZTLRDDC OR EQUAL. PROVIDE SUPPLY LINE, STOP VALVE & P-TRAP. PROVIDE CANE APRON AS REQUIRED.
<u>FS</u>	FLOOR SINK	ZURN Z1930			3"	1-1/2"	SANI-FLOR RECEPTOR 8" X 4" X 4" WITH 4" DEEP SUMP DEPTH
wco	WALL CLEANOUT					,	CLEANOUT FOR USE IN WALLS. PROVIDE PLUMBING PLAN AND ISOMETRICS FOR SIZE.
FCO	FLOOR CLEANOUT	JOSAM SERIES 55000 CLEANC COVER. SEE PLUMBING PLAN					OVIDE WITH JOSAM STAINLESS STEEL E.

NOTES: 1. FIXTURES MAY BE SUBSTITUTED BY AN EQUIVALENT FIXTURE. SEE PLUMBING SPECIFICATIONS FOR EQUIVALENT FIXTURE LIST.

2. ALL FIXTURES SHALL HAVE AN INDIVIDUAL SHUTOFF VALVE. 3. NEW WATER CLOSET TO HAVE TRIP LEVER ON SIDE OF FIXTURE AWAY FROM WALL PER ADA REQUIREMENTS.

E MACHINE SALVAGED FROM DEMO. COORDINATE WITH OWNER EQUIPMENT LOCATIONS. 1/2" CW AND DRAIN INTO FLOOR SINK BELOW.

LD WATER LINE TO EXISTING COLD WATER LINE. CONTRACTOR SHALL INSTALL SHUTOFF Y ACCESSIBLE LOCATION ON LINE.

WATER LINE TO EXISTING HOT WATER LINE. CONTRACTOR SHALL INSTALL SHUTOFF VALVE SSIBLE LOCATION ON LINE.

TURE TO NEW WATER SUPPLY, WASTE, AND VENT PIPING. CONTRACTOR SHALL INSTALL VES ON BOTH CW AND HW LINES.

NITARY PIPING TO EXISTING SANITARY PIPING. CONTRACTOR SHALL INSTALL WALL CLEAN

LVES ON BOTH HOT AND COLD WATER LINES TO MOP SINK.

/ DRYER.

COOLER.

S AND WATER SUPPLY TO NEW PRESSURE WASHER IN STORAGE.

GAS LINE TO PRESSURE WASHER FROM NEW 5" GAS LINE.

S LINE TO RTU'S, TO REMAIN.

BURNER HEADS TO EXISTING GAS PIPING.

THRU ROOF TO RTU-1 TO REMAIN.

THRU ROOF TO REMAIN. NEW GAS TRAIN CONNECTION TO RTU-2.

PROVIDE MINIMUM PENETRATION EQUAL TO PIPE DIAMETER. CLEAN AND REPAIR BLOCK, FINISH SMOOTH.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



MICHAEL C. GRAPPERHAUS License Number: PE-2008019543 Expiration Date: 12/31/24 **PROFESSIONAL SEAL** CASCO Diversified Corporation MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.



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

MISSOURI NATIONAL GUARD

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

T2122-01
6300
8136300017

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE:

ISSUE DATE: 08/01/2023

CAD DWG FILE: DRAWN BY: MEA CHECKED BY: JST DESIGNED BY: JST

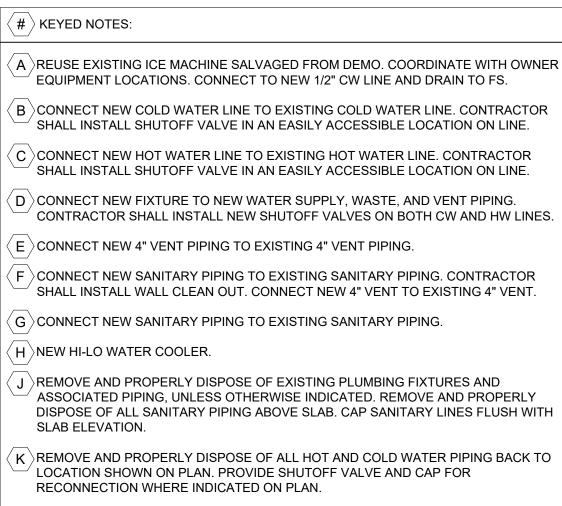
SHEET TITLE:

PLUMBING FLOOR PLAN AND SCHEDULES

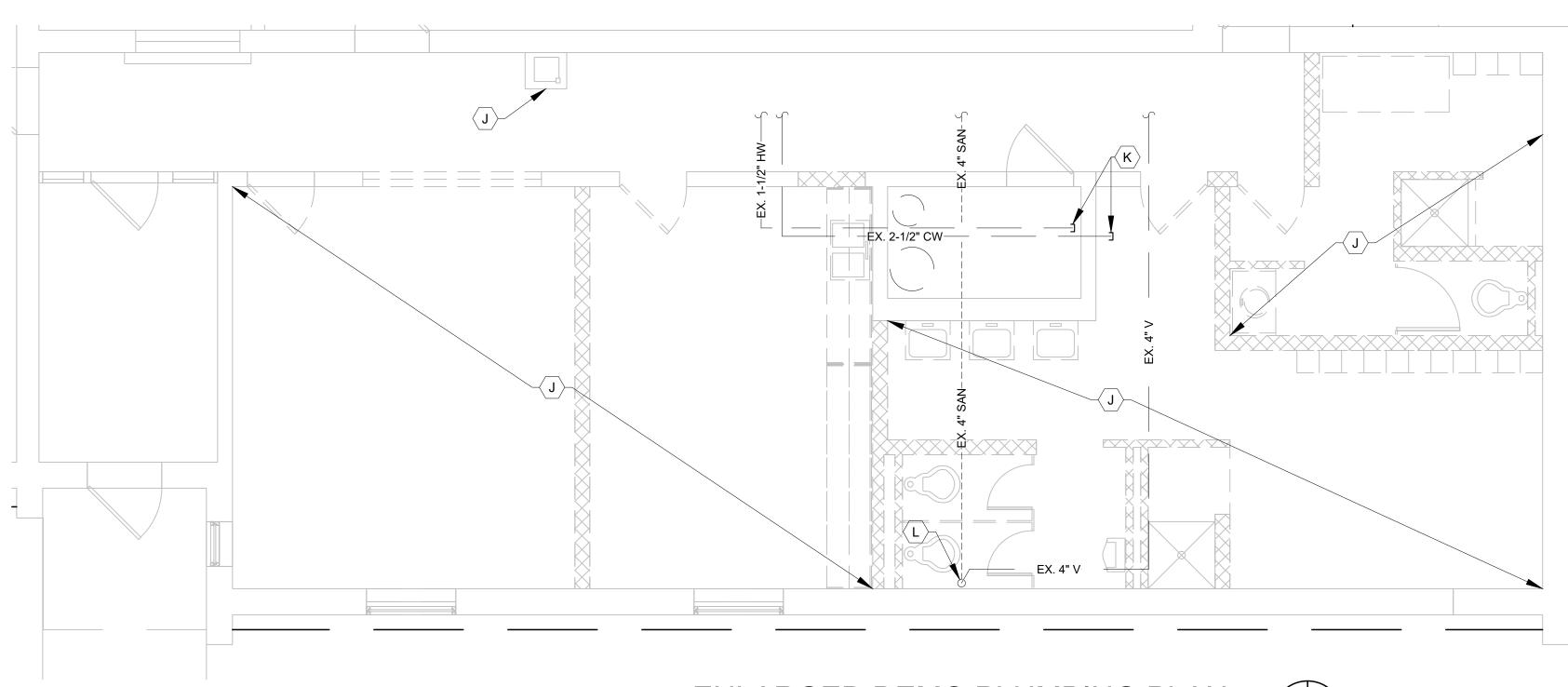
SHEET NUMBER:

P-101 08/01/2023 SHEET 18 OF 29

PLUMBING SYMBOLS LEGEND (BELOW SLAB) --EX SAN-- EXISTING SANITARY PIPING ------ V ------ NEW SANITARY VENT EXISTING SANITARY VENT ——EX V —— EXISTING HOT WATER PIPING —EX HW— SHUT OFF VALVE) ----EX CW ------EXISTING DOMESTIC COLD WATER EQUIPMENT/FIXTURE <u>XXX</u> DESIGNATION (??) KEYED NOTE \sum_{R} **REVISION NUMBER** POINT OF CONNECTION (NEW TO EXISTING) TYP. TYPICAL V.I.F. VERIFY IN FIELD \triangleright FLOW DIRECTION

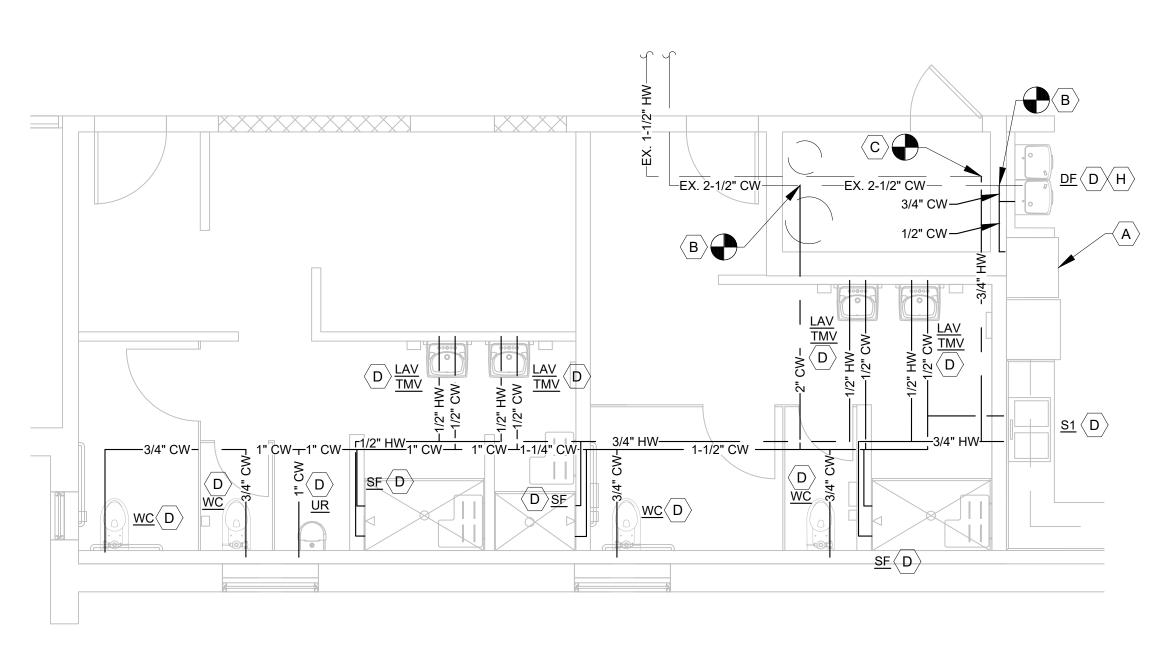


 \langle L \rangle REMOVE AND PROPERLY DISPOSE OF ALL VENT PIPING TO LOCATION SHOWN ON ^{__} PLAN.



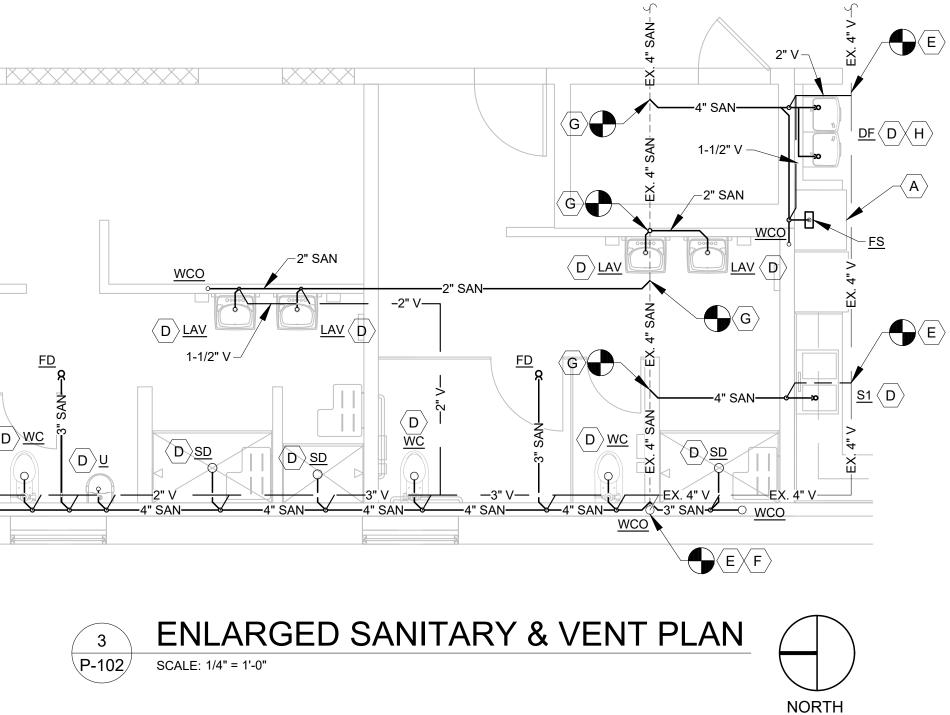
1

P-102 SCALE: 1/4" = 1'-0"



2 P-102 SCALE: 1/4" = 1'-0"

WC D LAV 1-1/2" V <u>WC</u>(D) <u>WCO</u>

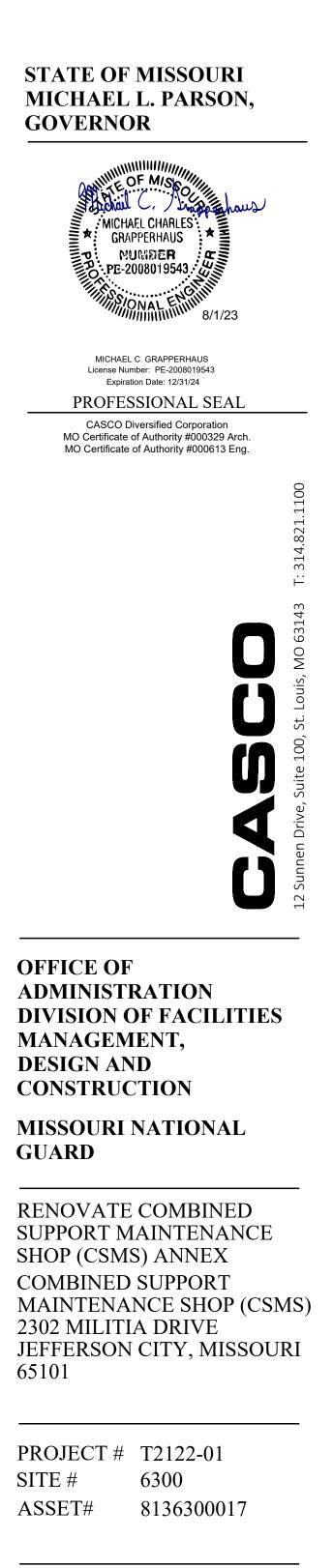


ENLARGED DEMO PLUMBING PLAN



ENLARGED WATER PLAN





REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 08/01/2023

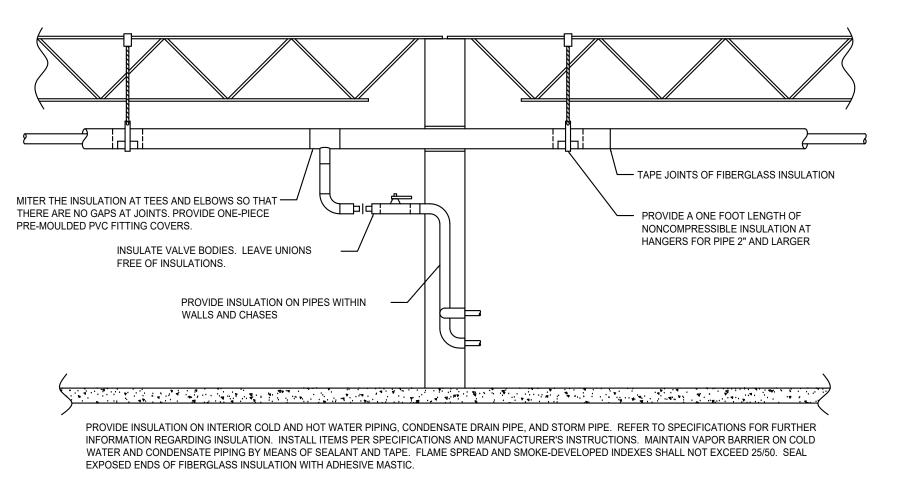
CAD DWG FILE:	
DRAWN BY:	MEA
CHECKED BY:	JST
DESIGNED BY:	JST

SHEET TITLE:

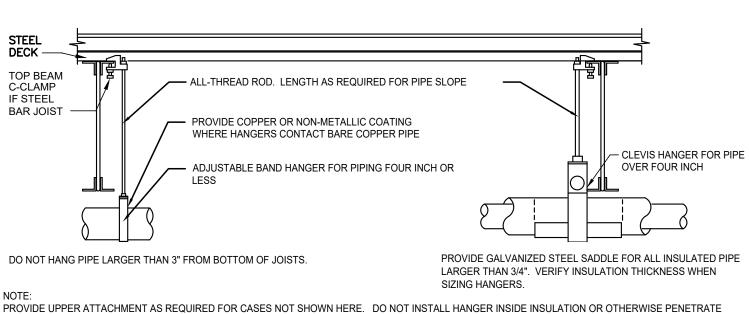
ENLARGED PLUMBING FLOOR PLANS

SHEET NUMBER:

P-102 08/01/2023 SHEET 19 OF 29







VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE:

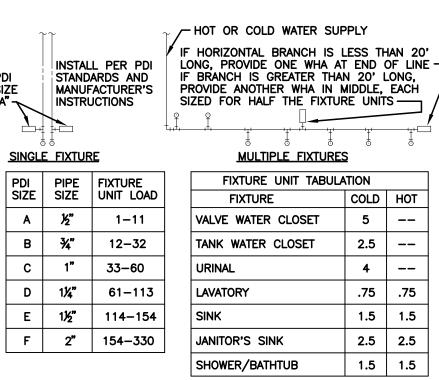
COPPER: 4"=12'; 3"=11'; 2½"=10'; 2"=9'; 1½"=8'; 1¼"=7'; 1"=6'; ¾"=6'; ½"=5'. STEEL: 4"=14'; 3"=12'; 2½"=11'; 2"=10'; 1½"=9'; 1"=7'; ¾"=6'; ½"=5'.

PDI SIZE "A" ->

c |

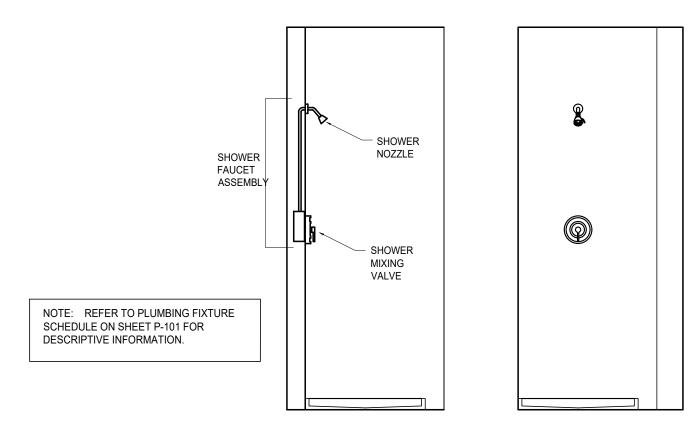
VERIFY HANGER SPACING WITH LOCAL AUTHORITY HAVING JURISDICTION AND LOCAL CODE AMENDMENTS. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.





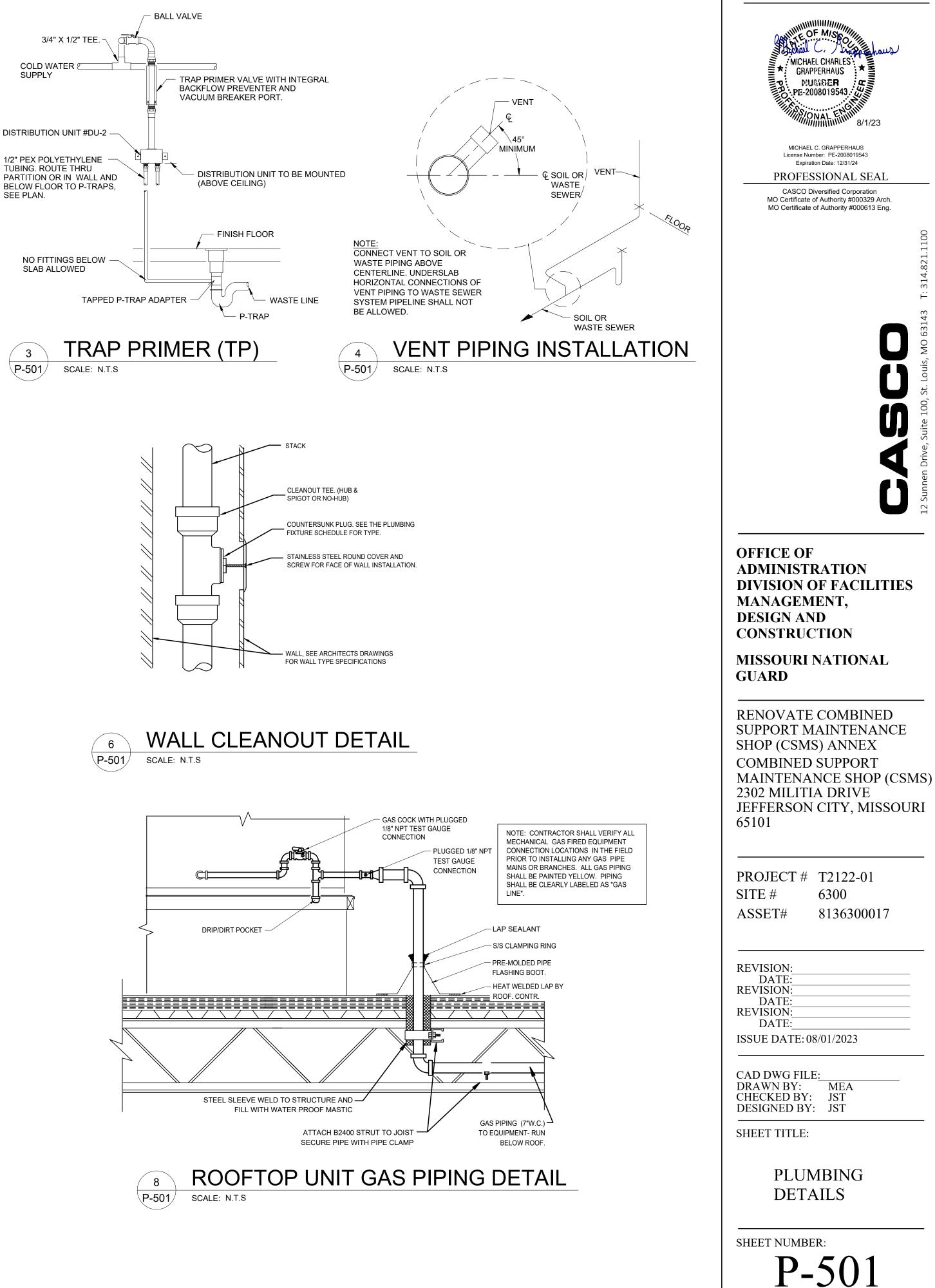
PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

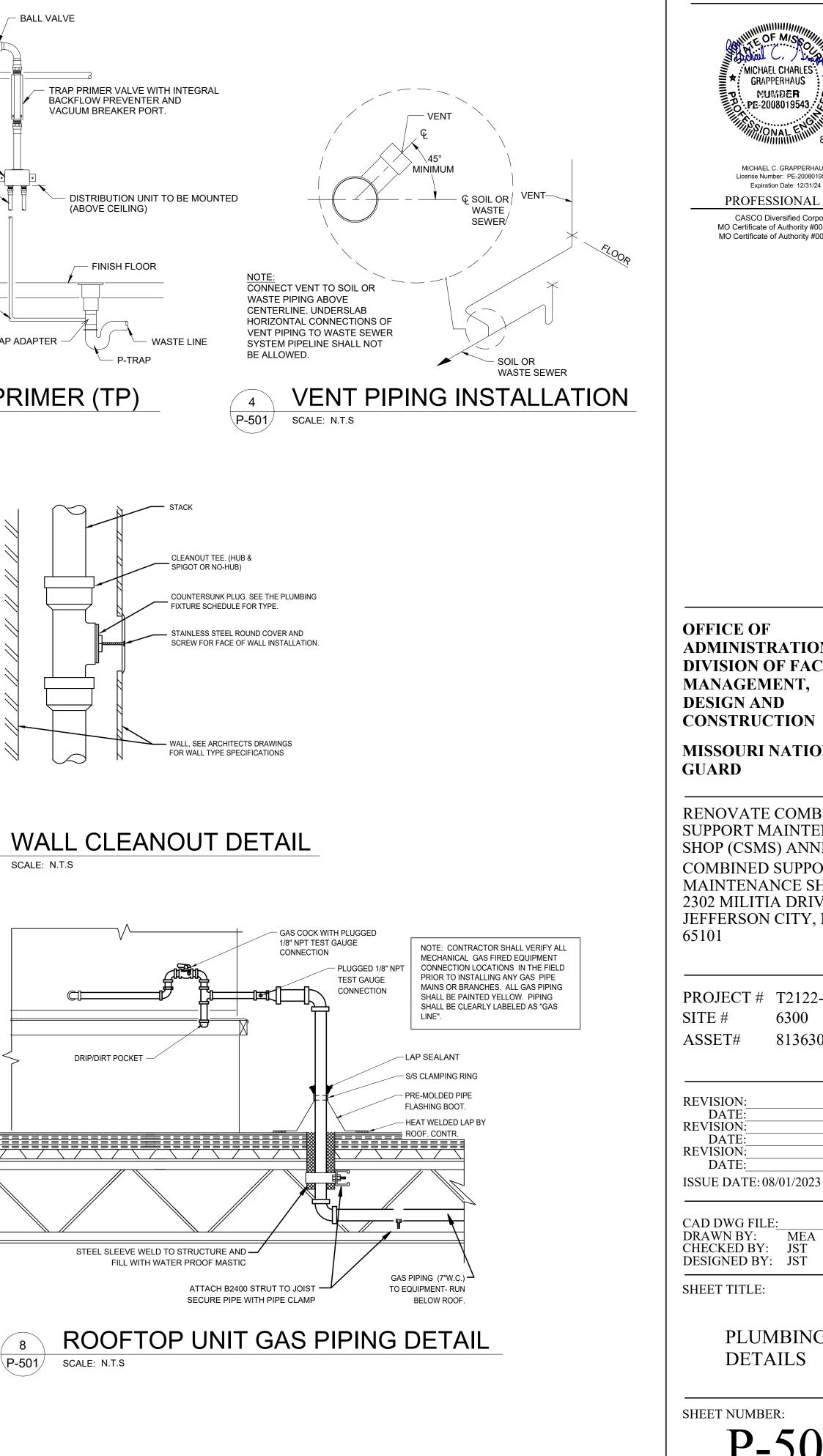


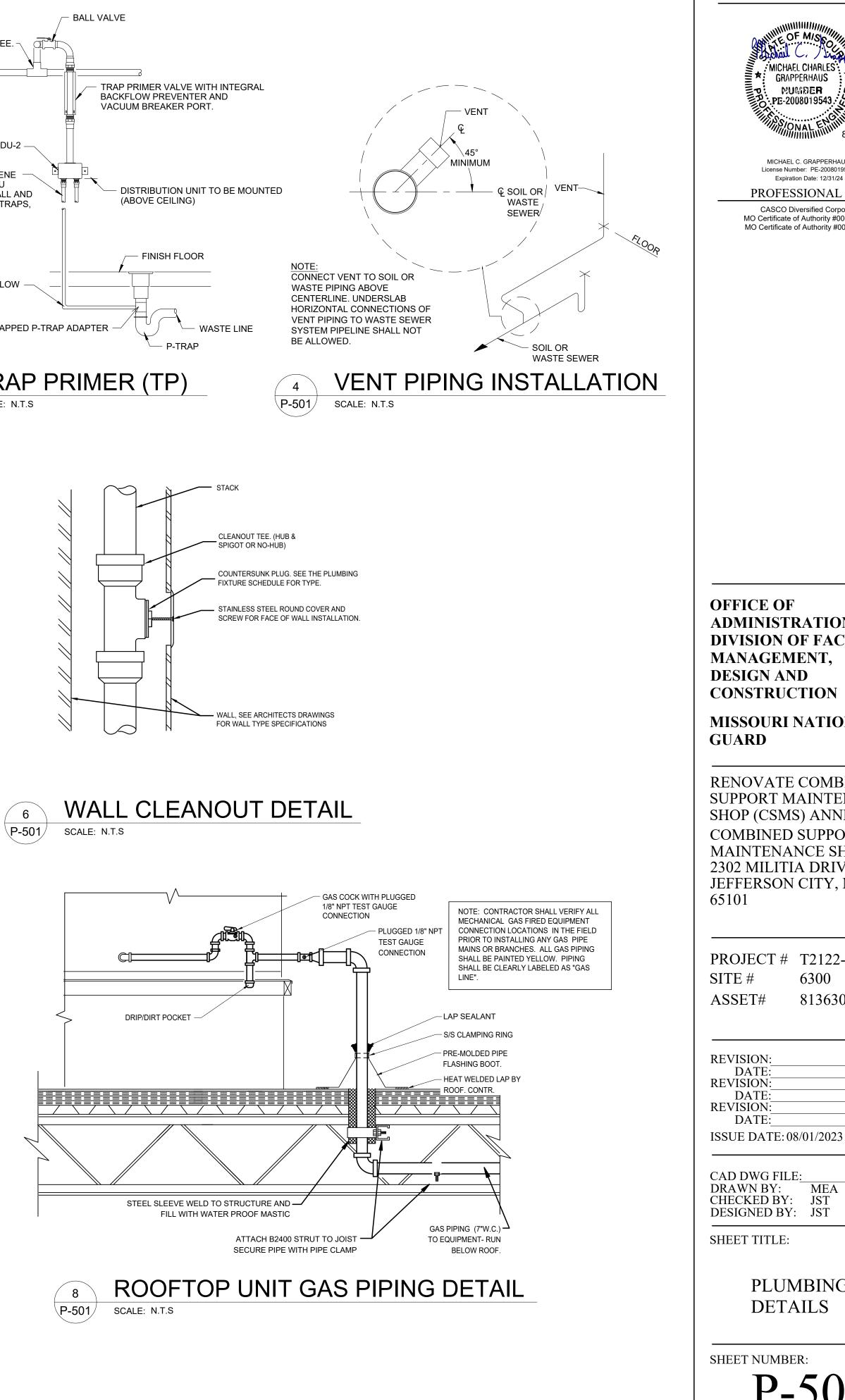


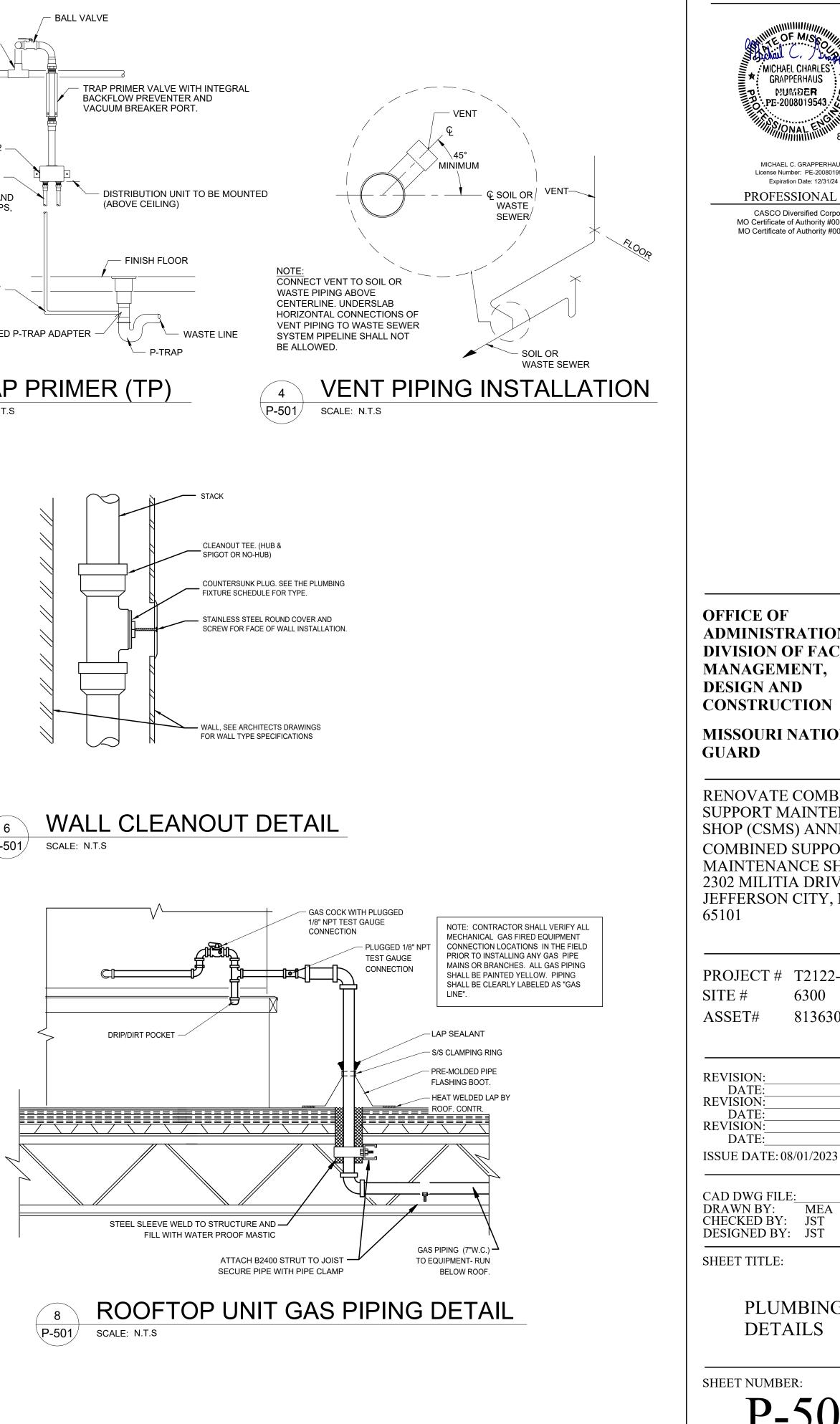










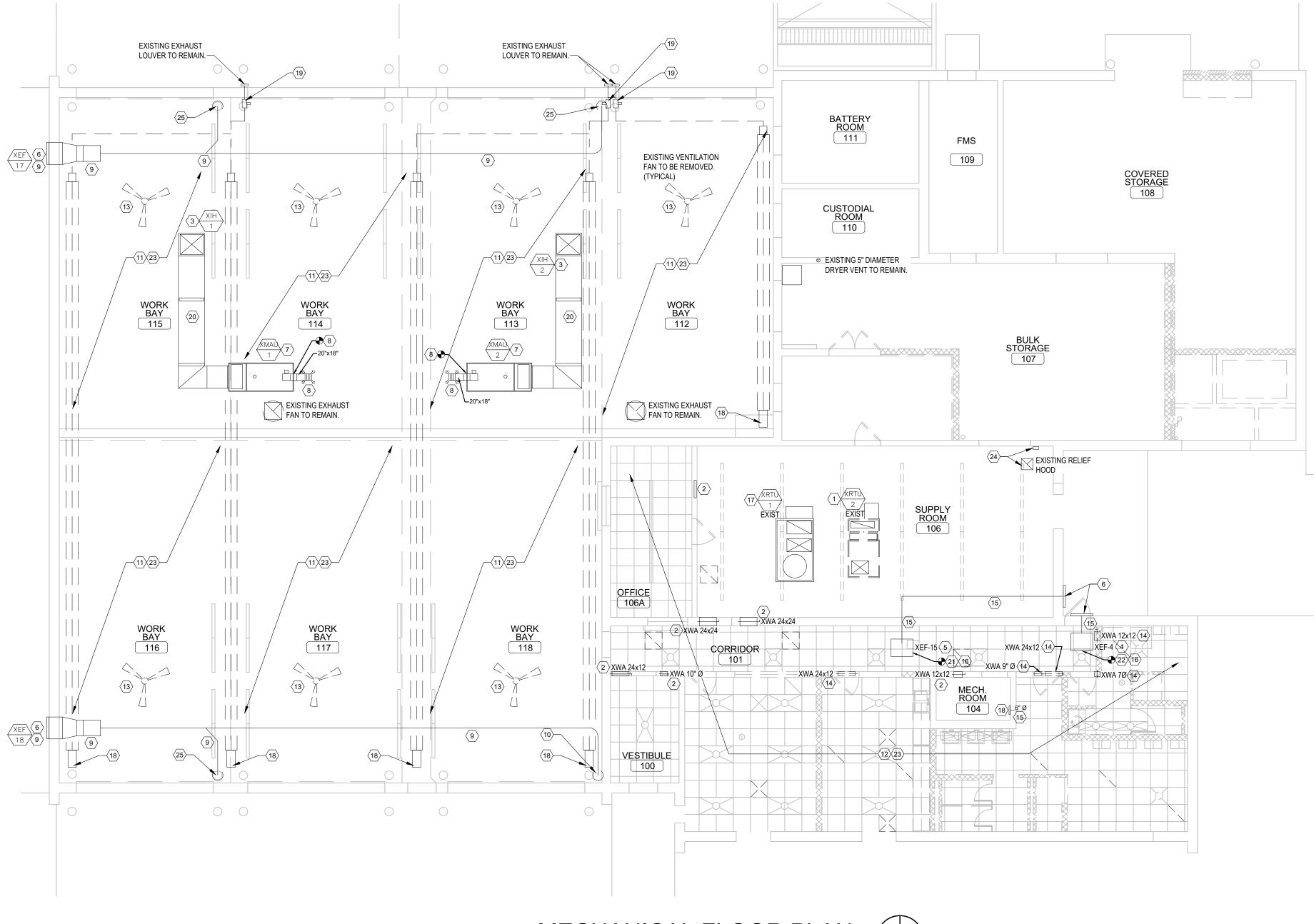




STATE OF MISSOURI MICHAEL L. PARSON,

GOVERNOR

^{08/01/2023} 20 OF 29 SHEETS



DEMOLITION GENERAL NOTES

OTHERWISE BECOME FAMILIAR WITH ACTUAL CONDITIONS WHEN BIDDING THE WORK.

- 3. G.C. TO PROVIDE DUMPSTER & CONTINUOUS CLEAN-UP DURING DEMOLITION TO PROVIDE SAFE AND CLEAN WORK SITE.
- OTHERWISE (U.N.O.)

- 11. COMPLY WITH LOCAL, SATE AND FEDERAL APPLICABLE REGULATIONS.

$\langle \# \rangle$ KEYED NOTES:

DISCONNECT AND REMOVE CONNECTING GAS PIPING. REMOVE CONDENSATE DRAINAGE. ROOF CURB IS TO REMAIN FOR CONTINUED USE.

- 2. RETURN WALL ASSEMBLY TO REMAIN.
- 3. EXISTING INTAKE AIR HOODS TO REMAIN IN PLACE FOR CONTINUED USE.
- 4. EXISTING LOCKER ROOM IN-LINE EXHAUST FAN TO REMAIN FOR REUSE.
- 5. EXISTING BREAK ROOM IN-LINE EXHAUST FAN TO REMAIN FOR REUSE.
- EXISTING EXHAUST WALL LOUVERS TO REMAIN FOR CONTINUED USE

- 10. REMOVE 8" VEHICLE EXHAUST DUCT DROPS & ASSOCIATED COMPONENTS.
- 12. REMOVE ALL DUCTWORK, DIFFUSERS, GRILLS, ACCESSORIES.
- 14. REMOVE RETURN WALL ASSEMBLY.
- 15. EXISTING EXHAUST DUCTWORK TO REMAIN FOR CONTINUED USE.
- 17. EXISTING RTU-1 SHALL REMAIN FOR CONTINUED USE, PROTECT FROM DAMAGE.

- 20. DUCTWORK TO REMAIN FOR CONTINUED USE.
- CONTINUED USE.
- CONTINUED USE.
- 23. REMOVE THERMOSTATS AND ASSOCIATED CONTROLS.
- 24. REMOVE RELIEF HOOD (RH-20) AND WALL-MOUNTED STATIC PRESSURE CONTROLLER.
- 25. REMOVE 12" VEHICLE EXHAUST DUCT DROPS & ASSOCIATED COMPONENTS.

1 MECHANICAL FLOOR PLAN M-101 SCALE: 1/8" = 1'-0"



1. DEMOLITION PLAN SHOWS APPROXIMATE LAYOUT OF EXISTING MECHANICAL & PIPING SYSTEMS AND IS NOT INTENDED TO PRESENT "AS-BUILT" CONDITIONS. GC TO VISIT SITE AND

2. 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.

4. ALL DIMENSIONS TO BE FIELD VERIFIED AFTER DEMOLITION HAS BEEN COMPLETED. NOTIFY ARCHITECT OF RECORD IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.

5. EXISTING PARTITIONS, FINISHES, EQUIPMENT AND FIXTURES THAT ARE TO REMAIN ARE TO BE PROTECTED BY THE G.C. THROUGHOUT THE DEMOLITION PROCESS UNLESS NOTED

6. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ASSOCIATED TO REMOVED HVAC UNITS & 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.

7. 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.

8. PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION TO ANY ADJACENT FACILITIES AT NO COST TO OWNER.

9. DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT FACILITIES. COORDINATE ANY SHUT OFF OR TEMPORARY DISRUPTION WITH CSMS PROJECT MANAGER.

10. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT STREETS, WALKS OR OTHER FACILITIES OCCUPIED OR USED BY THE GENERAL PUBLIC.

12. REFER TO ARCHITECTURAL INSTRUCTION FOR ROOF PATCH & REPAIR RELATED TO REMOVAL OF MECHANICAL & PIPING SYSTEMS.

REMOVE MAU AND ALL ASSOCIATED COMPONENTS & CONNECTING DUCTWORK. DISCONNECT ELECTRIC SERVICE AND PRESERVE CONDUCTORS FOR RECONNECTION TO NEW EQUIPMENT.

7. EXISTING MAKE-UP AIR UNITS SERVING THE SERVICE BAYS TO REMAIN IN PLACE FOR CONTINUED USE.

8. REMOVE MAU SUPPLY DUCTWORK. STORE EXISTING DUCT-MOUNTED SUPPLY AIR DIFFUSER FOR REUSE, PROTECT FROM DAMAGE.

9. EXISTING VEHICLE EXHAUST SYSTEM (IN-LINE FAN, WALL LOUVER, DUCTWORK), TO REMAIN IN PLACE FOR CONTINUED USE.

11. 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.

13. REMOVE AND DISPOSE OF EXISTING CEILING FAN. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.

16. REMOVE DUCTWORK FROM FAN INLET. PRESERVE FLANGES AND CONNECTION POINTS FOR RECONNECTION.

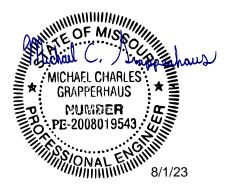
18. GAS PIPING CONNECTON TO INFRARED HEATING UNIT TO REMAIN FOR RECONNECTION TO NEW EQUIPMENT. SEE PIPING DRAWINGS.

19. REMOVE RADIANT HEATING SYSTEM VACUUM BLOWERS. DISCONNECT ELECTRIC SERVICE ADN PRESERVE CONDUCTORS FOR RECONNECTION.

21. REMOVE KITCHEN EXHAUST DUCTWORK INCLUDING EXHAUST GRILLS TO EXHAUST FAN INLET. KITCHEN EXHAUST FAN TO AND DISCHARGE DUCTWORK TO REMAIN IN PLACE FOR

22. REMOVE LOCKER ROOM EXHAUST DUCTWORK INCLUDING EXHAUST GRILLS TO EXHAUST FAN INLET. LOCKER ROOM EXHAUST FAN AND DISCHARGE DUCTWORK TO REMAIN IN PLACE FOR

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



MICHAEL C. GRAPPERHAUS License Number: PE-2008019543 Expiration Date: 12/31/24 **PROFESSIONAL SEAL** CASCO Diversified Corporation MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.



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

MISSOURI NATIONAL GUARD

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

PROJECT #	T2122-01
SITE #	6300
ASSET#	813630001

REVISION: DATE: **REVISION:** DATE: **REVISION**: DATE:

ISSUE DATE: 08/01/2023

CAD DWG FILE: DRAWN BY: MEA CHECKED BY: JST DESIGNED BY: JST

SHEET TITLE:

MECHANICAL DEMOLITION PLAN

SHEET NUMBER:

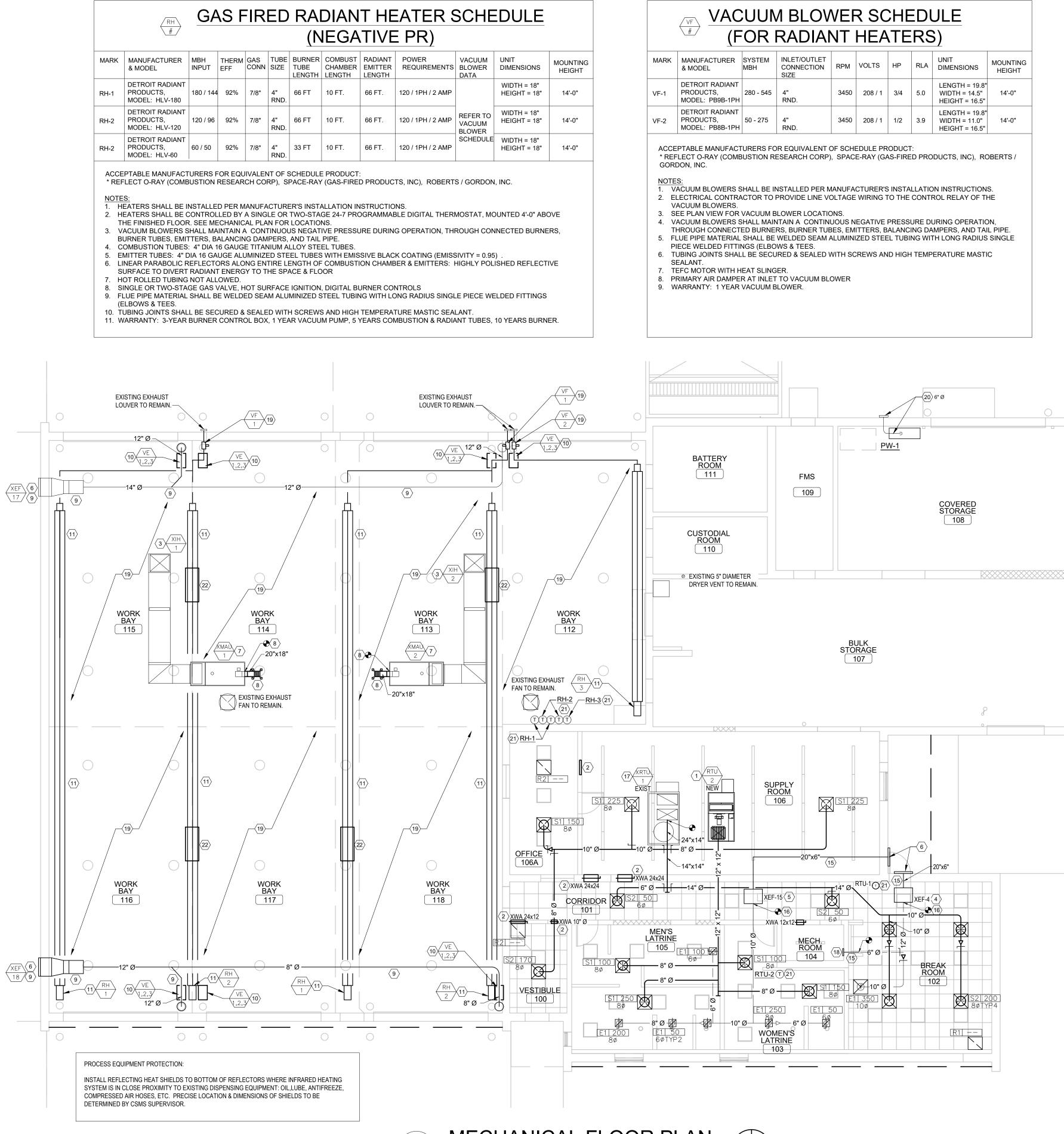
M-1 08/01/2023 SHEET 21 OF 29

GAS FIRED RADIANT HEATER SCHEDULE

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-180	180 / 144	92%	7/8"	4" RND.	66 FT	10 FT.	66 FT.	120 / 1PH / 2 AMP		WIDTH = 18" HEIGHT = 18"	14'-0"			
RH-2	DETROIT RADIANT PRODUCTS, MODEL: HLV-120	120 / 96	92%	7/8"	4" RND.	66 FT	10 FT.	66 FT.	120 / 1PH / 2 AMP	REFER TO VACUUM BLOWER	WIDTH = 18" HEIGHT = 18"	14'-0"			
RH-2	DETROIT RADIANT PRODUCTS, MODEL: HLV-60	60 / 50	92%	7/8"	4" RND.	33 FT	10 FT.	66 FT.	120 / 1PH / 2 AMP	SCHEDULE	WIDTH = 18" HEIGHT = 18"	14'-0"			

THE FINISHED FLOOR. SEE MECHANICAL PLAN FOR LOCATIONS.

BURNER TUBES, EMITTERS, BALANCING DAMPERS, AND TAIL PIPE.



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

∖M-101∕

MECHANICAL FLOOR PLAN



GENERAL NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- THE CONTRACT WORK SHALL INCLUDE FURNISHING ALL MATERIAL, EQUIPMENT, TOOLS, LABOR, AND SERVICES NECESSARY FOR COMPLETION OF THE PROJECT.
- 5. THE CONTRACTOR SHALL CORRECT ALL ERRORS AND DEVIATIONS AS REQUESTED BY THE OWNER.

- 9. THERMOSTATS, & REMOTE TEMPERATURE SENSORS SHALL BE MOUNTED AT 60" A.F.F.

- INSTALLATION INSTRUCTIONS.
- WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

#	KE	YED NOTES:
	1.	INSTALL NEW ROOFTOP UNIT (RTU-2) AT OR NEAR LOCATIC INSTALL FULL SIZE SUPPLY AND RETURN DUCT DROPS. M FEET BETWEEN RTU-1 (EXISTING) AND RTU-2 (NEW).
	2.	RETURN WALL ASSEMBLY TO REMAIN.
	3.	EXISTING INTAKE AIR HOODS TO REMAIN IN PLACE FOR CO
	4.	EXISTING IN-LINE EXHAUST FAN. SERVICE FAN FOR CONTI INTERLOCKED WITH DOAS-2. SEE SEQUENCE OF OPERATI
	5.	EXISTING IN-LINE EXHAUST FAN. SERVICE FAN FOR CONT
	6.	EXISTING EXHAUST FAN LOUVERS TO REMAIN FOR CONTIN
	7.	EXISTING MAKE-UP AIR UNITS SERVING THE SERVICE BAYS
	8.	REMOVE EXISTING SUPPLY DUCTWORK, REPLACE WITH N
	9.	EXISTING VEHICLE EXHAUST SYSTEM (IN-LINE FAN, WALL I
	10.	BID ALTERNATE #1: REMOVE VERTICAL DUCT DROP. INST EQUIPMENT SCHEDULE ON SHEET M-601.
	11.	INSTALL NEW GAS FIRED INFRARED HEATING SYSTEM TO TERMINATION. SEE SCHEDULE ON THIS SHEET.
	12.	NOT USED
	13.	NOT USED
	14.	REMOVE RETURN WALL ASSEMBLY.
	15.	EXISTING EXHAUST DUCTWORK TO REMAIN FOR CONT
	16.	INSTALL NEW DUCTWORK FROM EXISTING FAN INLET.
	17.	EXISTING RTU-1 SHALL BE SERVICED AS NECESSARY TO R
	18.	BALANCE EXISTING EXHAUST THROUGH GRILLE TO 100 CF
	19.	REPLACE RADIANT HEATING SYSTEM VACUUM FANS WITH
	20.	INSTALL PRESSURE WASHER FLUE EXHAUST, 6" DIAMETER PAVEMENT.
	21.	INSTALL THERMOSTATS AT 4 FT, AFF. ATTACH TO WALL.
	22.	INSTALL SHEETMETAL SHIELDS TO BOTTOM OF INFRARED HEAT DAMAGE TO DISPENSING SYSTEMS.
	IF REC	QUIRED, RELOCATION OF EXISTING SERVICE BAY _ BE DONE BY G.C. SEE ELECTRICAL DWGS.

KEYED NOTES

- CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. ALL WORK SHALL COMPLY WITH STATE CODE REQUIREMENTS. INSULATE NEW SUPPLY DUCTWORK WITH MINIMUM 1-1/2" THICK FOIL-BACKED DUCT WRAP
- POSSIBLE CONFLICTS UPON VERIFICATION OF FIELD CONDITIONS. THE REPORT SHALL BE FIXED BY THE CONTRACTOR.
- SHALL NOT EXCEED 5 FEET

FLEXIBLE INSULATED DUCT PERMITTED ONLY ABOVE LAY-IN CEILINGS, AND SHALL NOT BE A SUBSTITUTE FOR HARD-DUCT 90 DEG ELBOWS. MAXIMUM LENGTH OF INSULATED FLEX DUCT

CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT OF THE ASSOCIATED HVAC SYSTEMS UPON COMPLETION OF THE PROJECT. ANY DIFFUSER AIR FLOW DISCREPANCIES FROM

G. ALL NEW DUCTWORK AND DUCTWORK FITTINGS & TRANSITIONS SHALL BE IN ACCORDANCE TO THE REQUIREMENTS OF SMACNA DUCT CONSTRUCTION STANDARDS. H. CONTRACTOR SHALL FIELD VERIFY ALL BUILDING CONDITIONS AND HVAC EQUIPMENT, IN ENTIRETY, PRIOR TO COMMENCING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE OF ALL

WITHIN THE OFFICE AND LOCKER ROOM (LATRINE) AREAS, EQUIVALENTLY SIZED RECTANGLE DUCTWORK IS ALLOWED IN LIEU OF ROUND DUCTWORK. DUCTWORK SHALL BE SIZED FOR MAXIMUM PRESSURE DROP OF 0.08"WC/100 FT OF DUCT, AND MAXIMUM VELOCITY NOT TO EXCEED 1500 FPM.

USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE CEILING SPACE. MATERIALS USED IN THE CEILING SPACE SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE CEILING SPACE PLENUM SHALL BE CEILING PLENUM RATED.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK,

PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES BEFORE STARTING WORK.

SERVICE BAY EQUIPMENT TO BE ACCOMPLISHED BY NATIONAL GUARD STAFF, FINAL SERVICE CONNECTIONS DWGS.

DM OF INFRARED REFLECTOR TO PROTECT PROCESS EQUIPMENT, 4 LOCATIONS. SHIELDS SHALL BE OF PROPER LENGTH THE PREVENT

NUST, 6" DIAMETER, AGA/CSA TYPE B GAS FLUE PIPE WITH ACCESSORIES AND WALL CAP. WALL CAP ELEVATION TO BE 8 FEET ABOVE

GRILLE TO 100 CFM CUUM FANS WITH NEW VACUUM FANS AT ELEVATION OF THE EXISTING FANS.

ECESSARY TO RESTORE PERFORMANCE & CONDITION TO LIKE-NEW STATUS.

MAIN FOR CONTINUED USE.

TING SYSTEM TO REPLACE EXISTING, CONSISTING OF: BURNER HEAD, INFRARED TUBULAR ASSEMBLY, VACUUM PRODUCER, WALL EXHAUST

DUCT DROP. INSTALL NEW HOSE REEL ASSEMBLY CONSISTING OF THREE COMPOINENTS (VE-1, VE-2, VE-3). REEFER TO VEHICLE EXHAUST

EPLACE WITH NEW DUCTWORK FOR STRUCTURAL CLEARANCE. REUSE EXISTING SUPPLY LOUVER. LINE FAN, WALL LOUVER, DUCTWORK). SERVICE FOR CONTINUED USE.

HE SERVICE BAYS TO REMAIN IN PLACE FOR CONTINUED USE.

MAIN FOR CONTINUED USE.

E FAN FOR CONTINUED USE. REDUCE AIR FLOW TO VALUE INDICATED IN EQUIPMENT SCHEDULE.

E FAN FOR CONTINUED USE. BALANCE AIR FLOW TO VALUE INDICATED IN EQUIPMENT SCHEDULE. FAN SHALL BE ELECTRICALLY NCE OF OPERATION.

IN PLACE FOR CONTINUED USE.

R NEAR LOCATION WHERE HEATING & VENTILATING UNIT HAD BEEN REMOVED. RE-USE EXISTING CURB, INSTALL NEW CURB ADAPTER. DUCT DROPS. MAKE CONNECTIONS OF GAS PIPING AS SHOWN ON PLUMBING DRAWINGS. PROVIDE A MINIMUM SERVICE CLEARANCE OF 4 RTU-2 (NEW).

DATUM SYMBOL INDICATES POINT OF NEW TO EXISTING CONNECTION. PROVIDE TRANSITION AS REQUIRED FOR NEW DUCT CONNECTION.

13. BID ALTERNATE #1: ALL COMPONENTS OF THE NEW VEHICLE EXHAUST HOSE REELS & ACCESSORIES (SEVEN) SHALL BE INSTALLED BY A FACTORY-TRAINED CONTRACTOR IN ACCORDANCE

12. ALL COMPONENTS OF THE NEW GAS FIRED INFRARED HEATING SYSTEMS (SEVEN) SHALL BE INSTALLED BY A FACTORY-TRAINED CONTRACTOR IN ACCORDANCE WITH MANUFACTURERS

IN ACCORDANCE WITH THE LATEST ISSUE OF SMACNA'S AND NESCA'S MINIMUM INSTALLATION STANDARDS.

11. INTERNAL DUCT LINER SHALL NOT BE ALLOWED. EXTERIOR WRAP FOR SUPPLY & RETURN DUCT SHALL BE R-8 TWO (2) INCH +/- THICK, 3/4 LB. DENSITY. ALL DUCTWORK SHALL BE INSULATED

10. ALL COMPONENTS OF HVAC SYSTEM INCLUDING ROOFTOP UNIT, DUCTWORK, DUCTWORK INSULATION, DIFFUSERS, AND GRILLS SHALL BE INSTALLED BY CONTRACTOR.

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. 8. ALL PRECAUTIONS SHALL BE TAKEN NOT TO DISTURB EXISTING SERVICES AND UTILITIES.

6. THE CONTRACTOR SHALL CONTACT THE OWNER/ENGINEER IMMEDIATELY IF ANY WORKER ENCOUNTERS HAZARDOUS MATERIALS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP AND FOR COMPLIANCE WITH THE DESIGN.

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.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



MICHAEL C. GRAPPERHAUS License Number: PE-2008019543 Expiration Date: 12/31/24 **PROFESSIONAL SEAL** CASCO Diversified Corporation MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.

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

MISSOURI NATIONAL GUARD

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

PROJECT # T2122-01 6300 SITE # 8136300017 ASSET#

REVISION: DATE **REVISION:** DATE: **REVISION:** DATE:

ISSUE DATE: 08/01/2023

CAD DWG FILE: DRAWN BY: MEA CHECKED BY: JST

DESIGNED BY: JST

SHEET TITLE:

MECHANICAL FLOOR PLAN

SHEET NUMBER:

08/01/2023 SHEET 22 OF 29

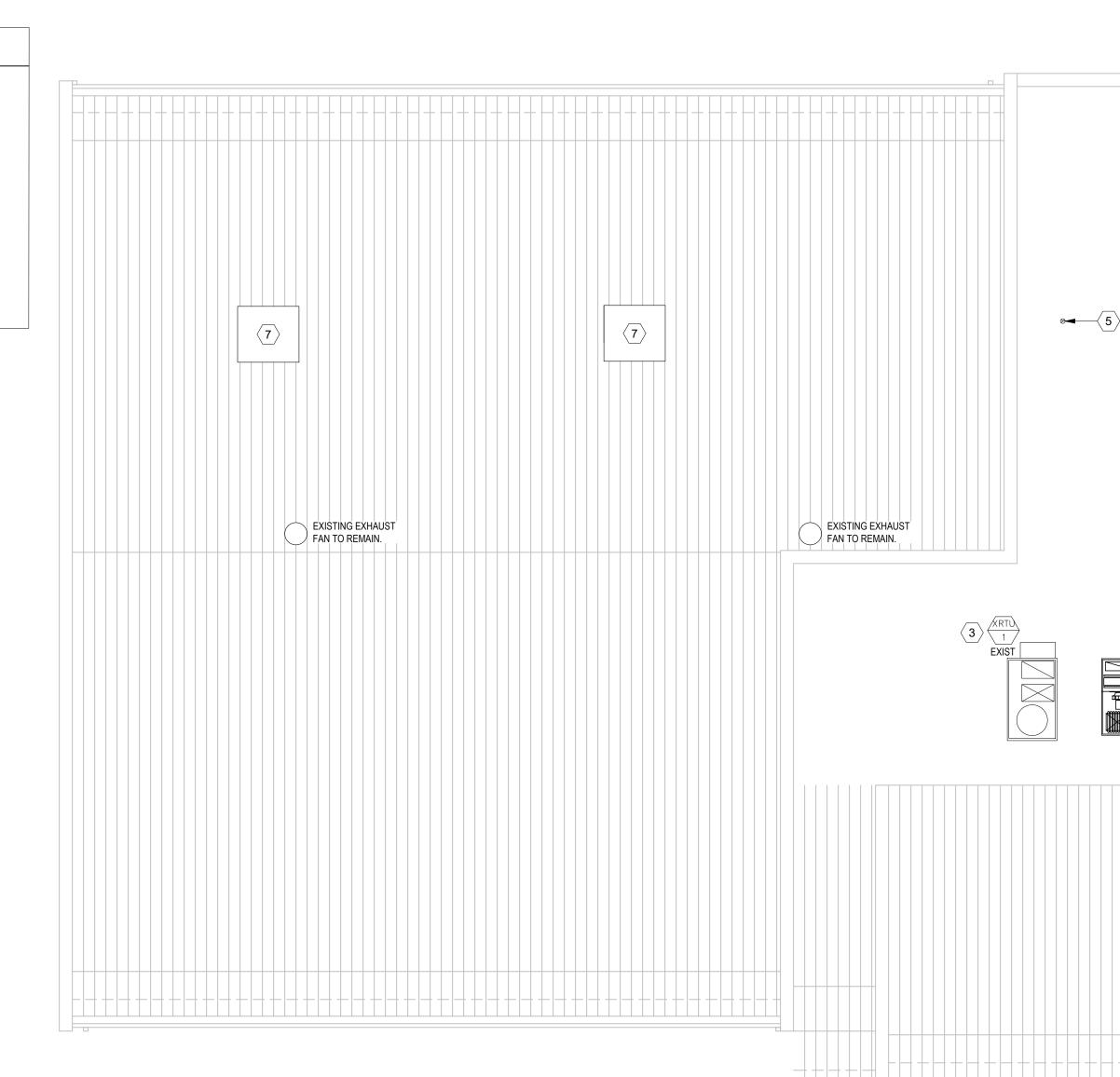
> KEYED NOTES:

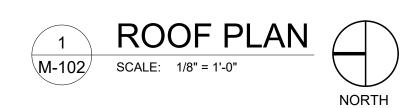
- (1) NEW RTUS ARE TO BE MOUNTED ON CURB ADAPTER. SUPPLY AND RETURN DUCTWORK UP TO RTU SHALL BE FULL SIZE OF RTU CURB DUCT OPENING. TRANSITIONS SHALL BE MADE IN VERTICAL DROP TO MATCH DIMENSIONS OF DUCTWORK SHOWN ON MECHANICAL DRAWINGS IN ACCORDANCE WITH SMACNA STANDARDS. BOTTOM AND SIDES OF ROOF CURBS TO BE INSULATED WITH R-19 BATT INSULATION. SEE DETAILS ON SHEET M-501 FOR ADDITIONAL INFORMATION.
- 2 SMOKE DETECTORS FOR ROOFTOP UNITS SHALL BE LOCATED WITHIN SUPPLY AIR PLENUM AND SHALL DE-ACTIVATE RTU UPON SENSING SMOKE AND SHALL BE TIED INTO BUILDING'S FIRE ALARM CONTROL PANEL WITH SUPERVISORY SIGNAL. WIRING BY CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 EXISTING ROOFTOP UNIT (XRTU-1) AND ROOFTOP UNIT (RTU-2)ARE ENABLED/DISABLED VIA EXISTING TIMECLOCK. CONTRACTOR SHALL MAKE FINAL CONTROLS CONNECTIONS AND PROVIDE UNIT OPERATIONAL CHECK-OUT.
- (4) CONTRACTOR TO PROVIDE 12" HIGH REFLECTIVE UNIT NUMBERS WITH THE SPECIFIC RTU # TO BE POSTED ON EACH UNIT ON THE CONTROL PANEL DOOR AND SIDE WITH THE DISCONNECT SWITCH IN A LOCATION VISIBLE FROM THE ROOF HATCH.
- $\langle 5 \rangle$ EXISTING 5"Ø DRYER VENT THROUGH THE ROOF TO REMAIN.
- 6 FOR EXISTING ROOFTOP UNIT (XRTU-1). APPLY NEW EQUIPMENT LABEL FROM EQUIPMENT MANUFACTURER, PER INSTRUCTIONS FROM THE EQUIPMENT SCHEDULE ON SHEET M601.
- \langle 7 \rangle EXISTING OUTSIDE AIR INTAKE TO REMAIN.
- (8) CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND INSTALLATION OF THIS UNIT, ASSOCIATED COMPONENTS, ALL DUCTWORK & ROOF FRAMING, AND ALL ROOF STRUCTURAL MODIFICATIONS AS NEEDED TO SUPPORT NEW UNIT. REFER TO ALL EQUIPMENT SCHEDULES & DETAILS PERTAINING TO THIS PIECE OF EQUIPMENT.
- $\langle 9 \rangle$ EXISTING ROOF DRAIN TO REMAIN.

GENERAL NOTES:

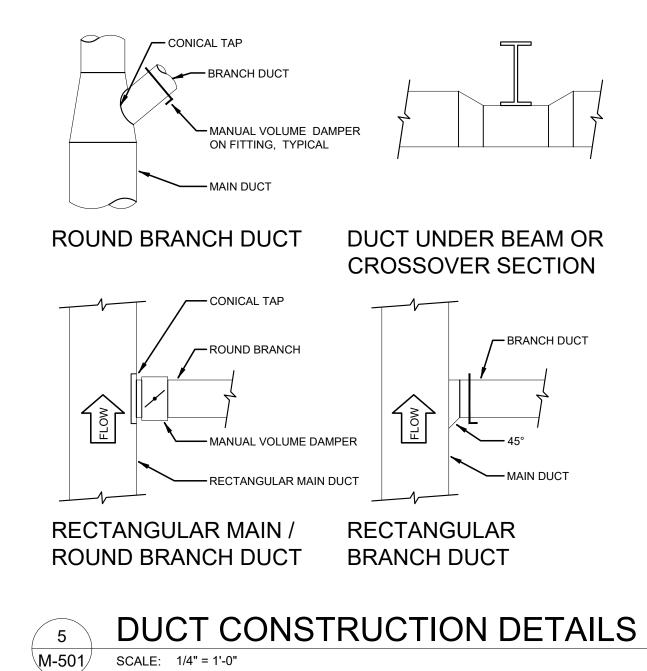
- 1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE CONTRACT DOCUMENTS. THE ENGINEER AND OWNER SHALL BE NOTIFIED OF ANY UNFORESEEN CONDITIONS WHICH MAY AFFECT PROGRESS OR COST OF WORK PERFORMED.
- 3. THE CONTRACT WORK SHALL INCLUDE FURNISHING ALL MATERIAL, EQUIPMENT, TOOLS, LABOR, AND SERVICES NECESSARY FOR COMPLETION OF THE PROJECT.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP AND FOR COMPLIANCE WITH THE DESIGN.
- 5. THE CONTRACTOR SHALL CORRECT ALL ERRORS AND DEVIATIONS AS REQUESTED BY THE OWNER.
- 6. 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 7 SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS IMMEDIATELY. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO THE CONTRACTOR PROCEEDING WITH WORK.
- 8. ALL PRECAUTIONS SHALL BE TAKEN NOT TO DISTURB EXISTING SERVICES AND UTILITIES.







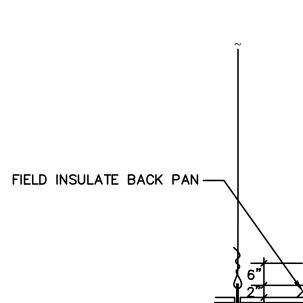
<text><text><text><text></text></text></text></text>
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION MISSOURI NATIONAL GUARD
SUPPORT MAINTENANCE SHOP (CSMS) ANNEX COMBINED SUPPORT MAINTENANCE SHOP (CSMS) 2302 MILITIA DRIVE JEFFERSON CITY, MISSOURI 65101 PROJECT # T2122-01 SITE # 6300 ASSET# 8136300017
REVISION: DATE: REVISION: DATE: REVISION: DATE: SSUE DATE: 08/01/2023 CAD DWG FILE: DAWW BY: MEA CHECKED BY: JST DESIGNED BY: JST SHEET TITLE: NECHANICAL SHEET NUMBER: NAMARE NUMBER: NAMARE NUMBER: NBALL NUMBER:<

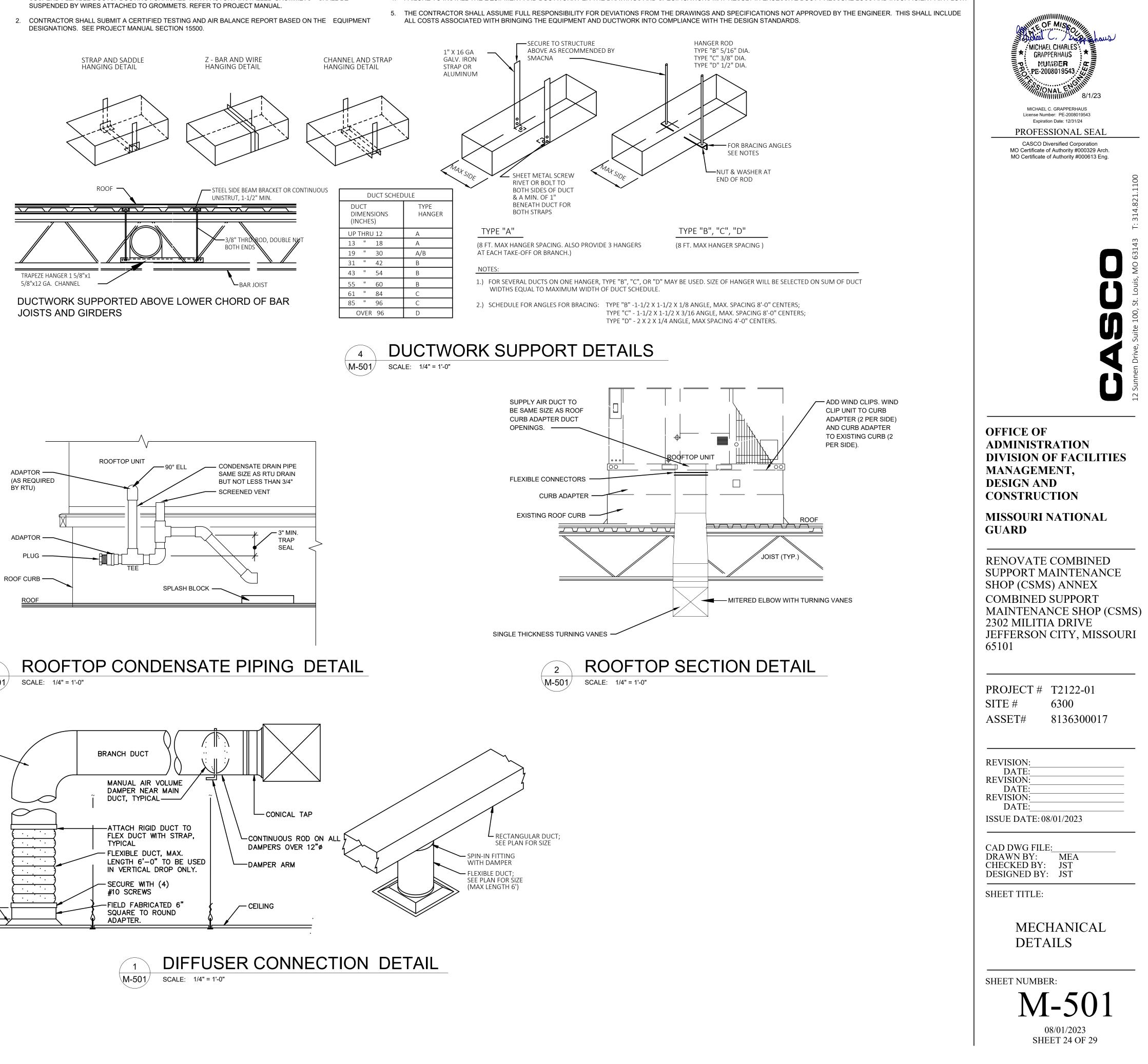




3

M-501/







NOTES FOR THIS DRAWING

1. FLEXIBLE DUCTS SHALL BE INSTALLED TO PROVIDE SWEEPING CONFIGURATION WITH NOT LESS THAN MANUFACTURER'S RECOMMENDED BEND RADIUS WITHOUT UNDUE RESTRICTIONS, BUT NOT CREATING UNNECESSARY SAGS OR CURVES. FLAT BANDING MATERIAL NOT LESS THAN 1-1/2" WIDE SHALL BE USED TO SUSPEND FLEXIBLE DUCTS. DUCTING FURNISHED WITH FACTORY INSTALLED GROMMETS SHALL BE

3. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO ORDERING ANY MATERIALS OR FABRICATING ANY DUCTWORK. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO BEGINNING WORK IF FIELD CONDITIONS PROHIBIT INSTALLATION OF EQUIPMENT AND DUCTWORK PER THE DRAWINGS AND SPECIFICATIONS.

4. FAILURE TO INSTALL THE EQUIPMENT AND DUCTWORK PER THE DRAWINGS AND SPECIFICATIONS MAY RESULT IN EXCESSIVE DUCT PRESSURE LOSS AND INSUFFICIENT AIR FLOW.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

	NEW DOAS ROOFTOP UNIT SCHEDULE (RTU): GAS FIRED HEATING (BASIS O												S OF	- DES	IGN))								
			AREA	VENTILATION SUPPLY FAN					GAS HEAT COOLING COIL							HOT GAS REHEAT COMPRESSORS			RESSORS			EL		
ID	MANUFACTURER (BASIS OF DESIGN)	MODEL NO.	SERVED	MAX OA	TOTAL	ESP	MOTOR	INPUT	OUTPUT	EAT	LAV	NOMINAL	TOTAL	SENS	LAT	EAT	LAT	SENS	MAX LAT	NO	RLA (EA)			
				CFM	CFM	IN W.G.	HP	МВН	MBH	F	F	TONS	MBH	MBH	MBH	DB°/WB°	DB°/WB°	MBH	DB°/WB°			VOLTS	PHASE	
RTU-2	GREENHECK	RV-10-4I-B-E1	LOCKER ROOMS	600	600	0.75	0.5	75.0	60.0	4.1	96.7	5	54.2	26.3	27.9	95.6 / 79.4	54.9 / 54.7	26.0	94.2 / 59.8	1	NA	208	3	

NOTES:

CONSTANT VOLUME DOAS ROOFTOP UNIT WITH MODULATING COMPRESSOR, MODULATING CONDENSER REHEAT, MODULATING GAS HEATING. STATIC PRESSURE IS THE EXTERNAL STATIC PRESSURE WHICH EXCLUDES ANY PRESSURE DROPS WITHIN THE UNIT.

PERFORM TESTING AND BALANCING AND SUBMIT CERTIFIED REPORTS TO THE ENGINEER.

CONTRACTOR TO ENSURE THAT OUTDOOR AIR INTAKES ARE A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST FAN DISCHARGE, PLUMBING VENT OR OTHER CONTAMINANT SOURCE.

INSTALL NEW PACKAGED ROOFTOP UNIT AND CURB ADAPTER ON EXISTING ROOF CURB. ELECTRICAL CONNECTION TO BE SINGLE POINT AND TO BE THROUGH THE BOTTOM OF THE UNIT

- GAS CONNECTION REQUIREMENT: 1 PSI (11 TO 14)" WC GAS PRESSURE.
- REFER TO ROOF FRAMING PLAN FOR EXACT LOCATION OF ROOFTOP UNITS.

ADDRESSABLE SMOKE DETECTOR SHALL BE PROVIDED & WIRED BY FIRE ALARM CONTRACTOR AND INSTALLED IN THE UNIT CABINET WITH PROBE EXTENDING INTO THE SUPPLY AIR DISCHARGE PLENUM BY THE MECHANICAL CONTRACTOR.

- MAXIMUM AIR VELOCITY THROUGH COOLING COIL SHALL NOT EXCEED 500 FEET PER MIN. UNIT WEIGHT INCLUDES 300 LBS FOR CURB ADAPTER 10
- CONTRACTOR TO PROVIDE ROOF CURB ADAPTER. 11
- 12. DOAS RTU TO BE ELECTRICALLY INTERLOCKED TO EXISTING FAN XEF-15. EXISTING TIME CLOCK TO ENABLE/DISABLE OPERATION OF DOAS RTU & XEF-15.

				1		1							\								1										
			AREA	VENTI	LATION	S	SUPPLY FAN		GAS	HEAT				COOLIN	NG COIL				HOT GAS	S REHEAT	COMPR	RESSORS	ELECTRICAL				EER/IEER	WEIGHT /	ACCESSORIES	NOTES	
ID	MANUFACTURER	MODEL NO.	SERVED	MIN OA	MAX OA	TOTAL	ESP	MOTOR	INPUT	OUTPUT	EAT	LAV	NOMINAL	TOTAL	SENS	LAT	EAT	LAT	SENS	MAX LAT	NO	RLA (EA)						/SEER	LBS		
				CFM	CFM	CFM	IN W.G.	HP	MBH	MBH	F	F	TONS	MBH	MBH	MBH	DB°/WB°	DB°	MBH	DB°			VOLTS	PHASE	HERTZ	MOCP	MCA	@ ARI 340			
XRTU-1	TRANE	YHC060E3RYA18H0C0A1B	OFFICE, PARTS STORAGE, BREAK RM	82	350	2000	0.75	1.0	80	64	4.1	100.7	5	63.5	47.3	16.2	80/67	58	25.3	69.5	1	NA	208	3	60	45	32.1	12.85//15.0	1013	1 THRU 21	1 THRU 4

NOTES:

EXISTING TIME CLOCK TO ENABLE/DISABLE OPERATION OF EXISTING RTU-1.

ADDRESSABLE SMOKE DETECTOR SHALL BE PROVIDED & WIRED BY FIRE ALARM CONTRACTOR AND INSTALLED IN THE UNIT CABINET WITH PROBE EXTENDING INTO THE SUPPLY AIR DISCHARGE PLENUM BY THE MECHANICAL CONTRACTOR, IF FUNCTIONING SMOKE DETECTOR IS DAMAGED OR MISSING

YEAR OF MANUFACTURER: 2012

HIGH EFFICIENCY UNIT WITH STAINLESS STEEL HEAT EXCHANGER

CONTRACTOR SHALL ATTACH NEW NAMEPLATE DECALS FROM TRANE COMPANY TO REPLACE THE EXISTING THAT ARE WEATHERED CONTRACTOR SHALL OBTAIN FROM EQUIPMENT MANUFACTURER A REPLACEMENT EQUIPMENT LABEL BASED ON THE LEGIBLE/EXISTING SERIAL

NUMBER. THIS NEW LABEL SHALL REPLACE THE WEATHERED LABEL AND SHALL BE APPLIED AT THE SAME LOCATION AS THE EXISTING LABEL.

EXISTING LABEL SHALL BE SCRAPED OFF TO PROVIDE A PROPER ADHESIVE METAL SURFACE FOR THIS NEW LABEL

-								
		## CFM]	DIF	FUSER	, REGIST		ID GRILLE S	CHEDU
ID	ТҮРЕ	ROUND NECK SIZE	FACE SIZE	FILTER SIZE	MOUNTING	CFM RANGE	MANUFACTURERS MODEL # (BASIS OF DESIGN)	REMARKS/OPTIC
S-1	SUPPLY DIFFUSER	PLAN	24" x 24"	N/A	SURFACE MOUNT	100-250	TITUS OMNI, TYPE 1	1 THRU 3
S-2	SUPPLY DIFFUSER	PLAN	24" x 24"	N/A	LAY-IN MOUNT	100-250	TITUS OMNI, TYPE 2	1 THRU 3
R-1	RETURN GRILLE	PLAN	20" x 24"	N/A	LAY-IN/SURFACE	200-350	TITUS 50F	1, 3
R-2	RETURN GRILLE	PLAN	24" x 24"	N/A	LAY-IN/SURFACE	200-350	TITUS 50F	1, 3
E-1	EXHAUST GRILLE	PLAN	12" x 12"	N/A	SURFACE	50-350	TITUS 50F	1, 35

NOTES

. INSTALLED OPPOSED BLADE DAMPER. 2. BAKED ENAMEL FINISH, COLOR TO BE WHITE. 3. INSULATED BACKPAN

$\langle \psi_{\#} \rangle$ VEHICLE EXHAUST SYSTEM SCHEDULE (ALTERNATE #1)

				<u>_ //</u>	/									\					
	NEW /	MANUFACTURER	MODEL #	SERIAL #	ТҮРЕ	DRIVE	CFM	FAN	S.P.		MOTOR			SERVICE	WEIGHT	ACCESSORIES	INSTALLATION	EQUIVALENT MANUF	EQUIVALENT MANUF
	EXISTING	(BASIS OF DESIGN)						RPM	(IN. W.G.)	HP	VOLTS	PHASE	HZ		(LBS)		NOTES	MODEL #	MODEL #
XEF-17	EXISTING	ACME INDUSTRIAL	215 A/9H	92030403	CLASS I, INLINE TUBULAR	BELT	2600	3200	5.0	5	208	3	60	EAST WALL SERVICE	180	1 - 3, 5, 12	1	GREENHECK	SOLER & PALAU
	LXIOTINO	ACIVIE INDOSTRIAE	21074011	52050405	CENTRIFUGAL	DEET	2000	5200	0.0	5	200	5	00	BAY	100	1 - 0, 0, 1Z	I	G - 099 HP - VG/4/A	SDBDe-12-3/4-1750
XEF-18	EXISTING	ACME INDUSTRIAL	215 A/9H	92030403	CLASS I, INLINE TUBULAR	BELT	1950	3689	5.0	3	208	з	60	WEST WALL SERVICE	180	1 - 3, 5, 12	1	GREENHECK	SOLER & PALAU
XLI - 10	LXIOTINO	ACIVIE INDUSTRIAL	215 A/911	92030403	CENTRIFUGAL	DLLI	1930	3009	5.0	5	200	5	00	BAY	100	1 - 5, 5, 12	ļ	G-098 HP- VG/4/A	SDBDe-10-1/3-1450
VE-1	NEW	CAR-MON	TSR-S32, 6 IN		TUBING STORAGE REEL,		650		NT ATTACH					EAST & WEST WALL		6, 7, 8, 10, 11		PLYMOVENT CORP	FUME-A-VENT CO
V - I		CAR-WON	136-332,01		RETRACTABLE		050	4-601			10 5110			SERVICE BAY		0, 7, 0, 10, 11		SER, FEB, HRR	HRS, BA, BAA
VE-2	NEW				DIESEL STACK ADAPTER	, HEAT	650	9 INC	H INLET TO	D ACCC	MMODA	ΓE		EAST & WEST WALL		4 0 11		PLYMOVENT CORP	FUME-A-VENT CO
VE-2		CAR-MON	RDS-6, 6 INCI		RESIST EPDM WITH LIFTIN	IG RING	000	EX	XH STACK	RAIN D	AMPER			SERVICE BAY		4, 9, 11		SER, FEB, HRR	HRS, BA, BAA
			TYPE NTC 6		25 FT: 600 DEG F TEMP LI	MIT, OIL	650	FACT	ORY INSTA	ALLED /	ADAPTER	RS		EAST & WEST WALL		44		PLYMOVENT CORP	FUME-A-VENT CO
VE-3	NEW	CAR-MON	ITPENIC 6		RESISTANT		000	AND C	ONNECTO	RS AT I	HOSE EN	IDS		SERVICE BAY				SER, FEB, HRR	HRS, BA, BAA
																	·		

ACCESSORIES:

1. BACKWARD INCLINED STEEL WHEEL, BELT DRIVE, CAPACITOR START CONTINUOUS DUTY MOTOR.

2. NEMA 1 DISCONNECT

3. DISCHARGE WALL LOUVER WITH ACCESS. 4. MOLDED EPDM WITH CURVED CONTOUR SHAPE, STEEL COLLAR WITH DEBRIS SCREEN

5. BACKDRAFT DAMPER 6. STRUCTURAL MOUNTING DIMENSIONS, BOLT PATTERN (L x W): 9.75" x 34.75". RIGIDLY ATTACH TO STRUCTURE

INSTALLATION NOTES:

1. CONTRACTOR TO INSTALL VEHICLE EXHAUST COMPONENTS (VE-1, VE-2, VE-3) AS DETAI AT LOCATIONS SHOWN ON SHEET M-102. 2. CONTRACTOR SHALL RESTORE THE FAN STRUCTURE, ROTATIONAL COMPONENTS, AN

				EXI	STIN	IG	EX	HAU	ST F	AN	SC	HE	DULE
ID	NEW / EXISTING	MANUFACTURER	MODEL #	TYPE	DRIVE	CFM	FAN_	S.P.	HP	MOTOR VOLTS	PHASE	HZ	
	LXISTING						RPM	(IN. W.G.)	пр	VOLIS	PHASE	пΖ	
XEF-4	EXISTING			IN-LINE		450	1075	0.5	1/2	208	3	60	BREAK ROOM
XEF-15	EXISTING			IN-LINE		700	1075	0.5	1/3	115	1	60	LOCKER ROOMS

INSTALLATION NOTES:

1. RESTORE THE FAN STRUCTURE, ROTATIONAL COMPONENTS, MOTORS, CONTROLLERS, AND FUNCTIONS TO "AS NEW" CONDITION AND PERFORMANCE

2. EXISTING WALL-MOUNT SPEED CONTROL & ON/OFF SWITCH SHALL BE RELOCATED TO LOCATION SHOWN ON PLAN M-102. 3. ADJUST FAN PERFORMANCE TO MATCH CFM OF SCHEDULE.

4. XEF-15 SHALL BE INTERLOCKED TO RTU-2, AND ENABLED/DISABLED THROUGH THE EXISTING TIME CLOCK.

XEF-4 IS TO BE ENABLED/DISABLED THROUGH THE EXISTING TIME CLOCK, AND OPERATED BY WALL TOGGLE SWITCH IN BREAKROOM.

6. IF SPEED CONTROL DEVICE IS MISSING OR NON-FUNCTIONAL, THEN CONTRACTOR SHALL ADD /REPLACE ELECTRIC SPEED CONTROL DEVICE. SPEED CONTROL DEVICE SHALL BE ACCESSIBLE FOR ADJUSTMENT.

AILED IN MANUFACTURERS INSTALLATION INS ID FUNCTIONS TO "AS NEW" CONDITION AND I	

ACCESSORIES:

INDIRECT FIRED HEAT EXCHANGER

- 2. DOUBLE WALL CONSTRUCTION, 2" R13 FOAM INSULATION 3. HINGED ACCESS DOORS
- 4. 2" INCH PANEL FILTERS. MERV 8
- DIRECT DRIVE PLENUM BLOWER & MOTOR ASSEMBLY WITH VFD & VFD BYPASS (ADJ SETPOINT)
- BOTTOM POWER ENTRY KIT 5. DISCONNECT SWITCH (NON FUSED), FACTORY INSTALLED
- SERVICE OUTLETS (GFCI TYPE, NEMA 4, FACTORY MOUNTED & WIRED)
- WEATHER HOOD
- TEMP/ENTHALPY 100% ECONOMIZER, MOTORIZED OUTDOOR AIR DAMPER

PAINTED EXTERIOR -- PERMATECTOR GRAY 10. DDC UNIT MOUNTED MICROPROCESSOR CONTROLLER. SINGLE ZONE VAV FUNCTION WITH DIGITAL INPUT TO SET FAN SPEED. 7-DAY PROGRAMMABLE FUNCTION, LEAVING AIR TEMP SENSOR.

- 11. OUTDOOR AIR WEATHER HOOD 12. DIRTY FILTER SENSOR
- 13. CONDENSER HAIL GUARDS
- 14. EQUIPMENT OPERATIONAL CHECK (EOC)
- 15. 3-ROW EVAPORATOR COIL WITH TXV (W/ EXT EQUALIZER)
- 16. REFRIGERANT: R410-A 17. STAINLESS STEEL HEAT EXCHANGERS
- 18. 12:1 MODULATING GAS INPUT, DIRECT SPARK IGNITION
- 19 VARIABLE CAPACITY COMPRESSOR
- 20. MODULATING HOT GAS REHEAT, 2 ROW COIL WITH TXV

$\langle \# \rangle$ EXISTING ROOFTOP UNIT SCHEDULE (RTU): GAS FIRED HEATING

EXISTING ACCESSORIES:

- 1. INDIRECT FIRED HEAT EXCHANGER
- 2. 2 INCH PANEL FILTERS, MERV 7
- ROOF CURB 14" HIGH 4. BOTTOM POWER ENTRY KIT
- DISCONNECT SWITCH (NON FUSED), FACTORY INSTALLED
- SERVICE OUTLETS (GFCI TYPE, NEMA 3R, FACTORY MOUNTED/POWERED.
- WEATHER HOOD 8. COMPARATIVE ENTHALPY 100% ECONOMIZER, MOTORIZED OUTDOOR AIR & MOTORIZED RE-CIRCULATION DAMPERS, BAROMETRIC RELIEF.
- STAINLESS STEEL HEAT EXCHANGER, MEDIUM HEAT CAPACITY, SINGLE STAGE 10. DIRTY FILTER SENSOR
- 11. CONDENSER HAIL GUARDS
- 12. 4-ROW EVAPORATOR COIL WITH TXV
- 13. REFRIGERANT: R410-A
- 14. SINGLE ZONE VAV FUNCTION, MULTI-SPEED DIRECT DRIVE EVAP MOTOR. 15. DEHUMIDIFICATION HOT GAS REHEAT, 2-ROW COIL, ZONE HUMIDISTAT
 - SEQUENCE OF OPERATION: (NEW RTU-2)
 - MODULATED HOT GAS REHEAT, SERVING THE LOCKER ROOMS.

 - B. OCCUPIED HOURS:
 - 2. INTERLOCKED RESTROOM EXHAUST FAN SHALL OPERATE.
 - OA & RETURN AIR ENTHALPY DIFFERENCE VIA SENSOR INPUT.

 - TEMPERATURE SETPOINT.

C. UNOCCUPIED HOURS:

- UNOCCUPIED HOURS DETERMINED FROM SETTINGS OF THE TIME CLOCK.
- LOCKER ROOM EXHAUST FAN (XEF-15) SHALL NOT OPERATE.
- 4. HEATING AND COOLING FUNCTIONS ARE NOT OPERATING.

- D. SMOKE ALARM FUNCTION.
- SIGNAL TO REMOTE FIRE PROTECTION ALARM DEVICE.

SEQUENCE OF OPERATION: (EXISTING RTU-1)

- OFFICE, PART STORAGE, AND BREAKROOM.
- B. OCCUPIED HOURS:
- TEMPERATURE SETPOINT VIA UNIT CONTROLLER AND SENSORS.
- C. UNOCCUPIED HOURS:
- 3. HEATING AND COOLING FUNCTIONS ARE NOT OPERATING.
- 4. IF ENABLED BY TIME CLOCK

- TEMPERATURE SETPOINT VIA UNIT CONTROLLER AND SENSORS.

D. WARM-UP MODE:

- 1. IF ENABLED BY TIME CLOCK.
- UNIT CONTROLLER SHALL INITIATE COOLING OR HEATING.

- TEMPERATURE SETPOINT VIA UNIT CONTROLLER AND SENSORS.
- E. SMOKE ALARM FUNCTION.
- SIGNAL TO REMOTE FIRE PROTECTION ALARM DEVICE.

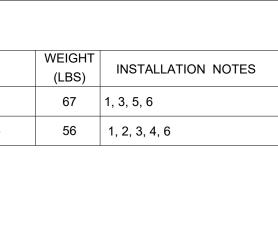
LE IONS EQUIVALENT MANUF EQUIVALENT MANUF / MODEL # / MODEL # PRICE SPD KRUEGER PLQ KRUEGER PLQ PRICE SPD NAILOR 51EC-OA **KRUEGER EGC15** NAILOR 51EC-OA KRUEGER EGC15 NAILOR 51EC-OA **KRUEGER EGC15**

7. TOP FRAME DIMENSIONS (L X W): 12" X 44.75". DRUM DIAMETER: 32"

RETRACTABLE SPRING MECHANISM FOR HOSE RETRACTION ONTO HOSE REEL FOR STORAGE.

9. VARIOUS TAIL PIPE ADAPTERS AVAILABLE FOR CONNECTION TO THE HOSE. 10. TUBULAR STEEL WELDED CONSTRUCTION.

11. TOTAL OF SEVEN ASSEMBLIES.



LECTRICAL			EER/IEER /SEER @ ASHRAE	WEIGHT / LBS	AC	CESSORIES	NOTES		
HERTZ	MOCP	MCA	90.1 MIN						
60	30.0	20.2	/ / 14.0	1363	1 T	HRU 21	1 THRU 12		
			EQUIVALENT MOI	IANUFACTUF DEL #	TURER EQUIVALENT MANUFACTUR MODEL #				
RTU-2				VEAIRE RTU1-1		RUPPAIR PARTU-1			
LECTRICAL			EER/IEER	WEIGHT / LBS	AC	CESSORIES	NOTES		

A. GENERAL: THE FOLLOWING DESCRIBES THE SEQUENCE OF OPERATION FOR INDIRECT-FIRED CONSTANT VOLUME DOAS ROOFTOP UNIT WITH FAN VFD SETPOINT,

THIS DOAS UNIT SHALL BE ENABLED/DISABLED AND INTERLOCKED TO LOCKER ROOM EXHAUST FAN XEF-15 VIA CONNECTION TO THE EXISTING TIME CLOCK.

1. UNIT OUTDOOR AIR DAMPER SHALL OPEN TO THE MAXIMUM POSITION AND UNIT SUPPLY FAN SHALL OPERATE CONTINUOUSLY BY UNIT CONTROLLER .

3. UNIT CONTROLLER SHALL MAINTAIN THE EVAPORATOR LEAVING AIR TEMP OF 55 DEG F DB BY MODULATING MECHANICAL REFRIGERATION BASED ON THE COMPARATIVI 4. HOT GAS REHEAT SHALL BE ENABLED AND MODULATE BY THE UNIT CONTROLLER TO MAINTAIN THE SETPOINT DISCHARGE AIR TEMPERATURE 5. UNIT CONTROLLER SHALL DETERMINE BY INPUT FROM SPACE TEMPERATURE SENSOR WHEN TO ENABLE THE MODULATING GAS BURNER TO MAINTAIN THE DISCHARGE

3. UNIT OUTDOOR AIR DAMPER SHALL REMAIN CLOSED AND UNIT SUPPLY FAN SHALL CYCLE OFF BY UNIT CONTROLLER.

5. ROOM TEMPERATURE SENSOR SHALL INITIATE COOLING OR HEATING AT THE SELECTED UNOCCUPIED ROOM TEMPERATURES, IF ENABLED BY THE TIME CLOCK. 6. UNIT REFRIGERATION SYSTEM SHALL CYCLE WITH MODULATED HOT GAS REHEAT FOR SPACE TEMP AND HUMIDITY CONTROL. OR THE STAGES OF GAS HEATING SHALL CYCLE IN RESPONSE TO THE ROOM TEMPERATURE SENSOR TO PROVIDE COOLING OR HEATING OF THE UNOCCUPIED INTERIOR SPACES, IF ENABLED BY THE TIME CLOCK.

1. UNIT OUTDOOR AIR DAMPER SHALL CLOSE AND UNIT SUPPLY FAN SHALL STOP ON A SIGNAL FROM DUCT SMOKE DETECTOR. DUCT SMOKE DETECTOR SHALL SEND A

A. GENERAL: THE FOLLOWING DESCRIBES THE SEQUENCE OF OPERATION FOR EXISTING CONSTANT VOLUME ROOFTOP UNIT WITH SINGLE ZONE VAV FUNCTION, SERVING

THIS ROOFTOP UNIT SHALL BE ENABLED/DISABLED BY CONNECTION TO THE EXISTING TIME CLOCK. TIME CLOCK TO INITIATE OPERATIONS.

UNIT OUTDOOR AIR DAMPER SHALL OPEN TO ITS MINIMUM POSITION AND UNIT SUPPLY FAN SHALL OPERATE CONTINUOUSLY. COOLING: UNIT CONTROLLER SHALL CYCLE STAGES OF COOLING BY SELECTING COMPRESSOR STAGE AND CORRESPONDING LOW OR HIGH SPEED SUPPLY FAN OPERATION TO MAINTAIN ROOM TEMPERATURE SETPOINT VIA UNIT CONTROLLER AND SENSORS. HEATING: UNIT CONTROLLER SHALL CYCLE STAGES OF GAS HEATING AND CORRESPONDING LOW OR HIGH SPEED SUPPLY FAN OPERATION TO MAINTAIN ROOM 2. UNIT ECONOMIZER CYCLE SHALL BE INITIATED UPON A SIGNAL FROM OUTDOOR AND RETURN AIR TEMPERATURE AND ENTHALPY SENSORS. OUTDOOR AIR DAMPER, RETURN AIR DAMPER, AND UNIT COMPRESSOR(S) SHALL CYCLE TO MAINTAIN SPACE SETPOINT.

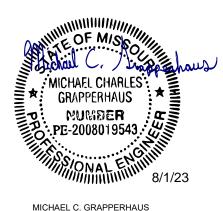
UNIT OUTDOOR AIR DAMPER SHALL REMAIN CLOSED AND UNIT SUPPLY FAN SHALL REMAIN OFF.

5. UNIT CONTROLLER SHALL INITIATE LOW SPEED FAN OPERATION, OPEN OUTDOOR AIR DAMPER TO MINIMUM POSITION, INITIATE COOLING OR HEATING. 6. COOLING: UNIT CONTROLLER SHALL CYCLE STAGES OF COOLING BY SELECTING COMPRESSOR STAGE AND CORRESPONDING LOW OR HIGH SPEED SUPPLY FAN OPERATION TO MAINTAIN ROOM TEMPERATURE SETPOINT VIA UNIT CONTROLLER AND SENSORS. 7. HEATING: UNIT CONTROLLER SHALL CYCLE STAGES OF GAS HEATING AND CORRESPONDING LOW OR HIGH SPEED SUPPLY FAN OPERATION TO MAINTAIN ROOM 8. ECONOMIZER FUNCTION SHALL BE INITIATED UPON A SIGNAL FROM OUTDOOR AND RETURN AIR TEMPERATURE AND ENTHALPY SENSORS. OUTDOOR AIR DAMPER, RETURN AIR DAMPER, AND UNIT COMPRESSOR(S) SHALL CYCLE TO MAINTAIN SPACE SETPOINT.

. UNIT CONTROLLER SHALL MAINTAIN OUTDOOR AIR DAMPER CLOSED AND UNIT SUPPLY FAN SHALL CYCLE ON A SIGNAL FROM SPACE SENSOR. 4. COOLING: UNIT CONTROLLER SHALL CYCLE STAGES OF COOLING BY SELECTING COMPRESSOR STAGE AND CORRESPONDING LOW OR HIGH SPEED SUPPLY FAN OPERATION TO MAINTAIN ROOM TEMPERATURE SETPOINT VIA UNIT CONTROLLER AND SENSORS. 5. HEATING: UNIT CONTROLLER SHALL CYCLE STAGES OF GAS HEATING AND CORRESPONDING LOW OR HIGH SPEED SUPPLY FAN OPERATION TO MAINTAIN ROOM

1. UNIT OUTDOOR AIR DAMPER SHALL CLOSE AND UNIT SUPPLY FAN SHALL STOP ON A SIGNAL FROM DUCT SMOKE DETECTOR. DUCT SMOKE DETECTOR SHALL SEND A

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



License Number: PE-2008019543 Expiration Date: 12/31/24 PROFESSIONAL SEAL CASCO Diversified Corporation MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.



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

MISSOURI NATIONAL GUARD

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

PROJECT # T2122-01 SITE # 6300 ASSET# 8136300017

REVISION: DATE **REVISION:** DATE: **REVISION:** DATE:

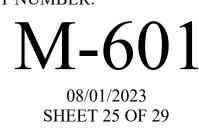
ISSUE DATE: 08/01/2023

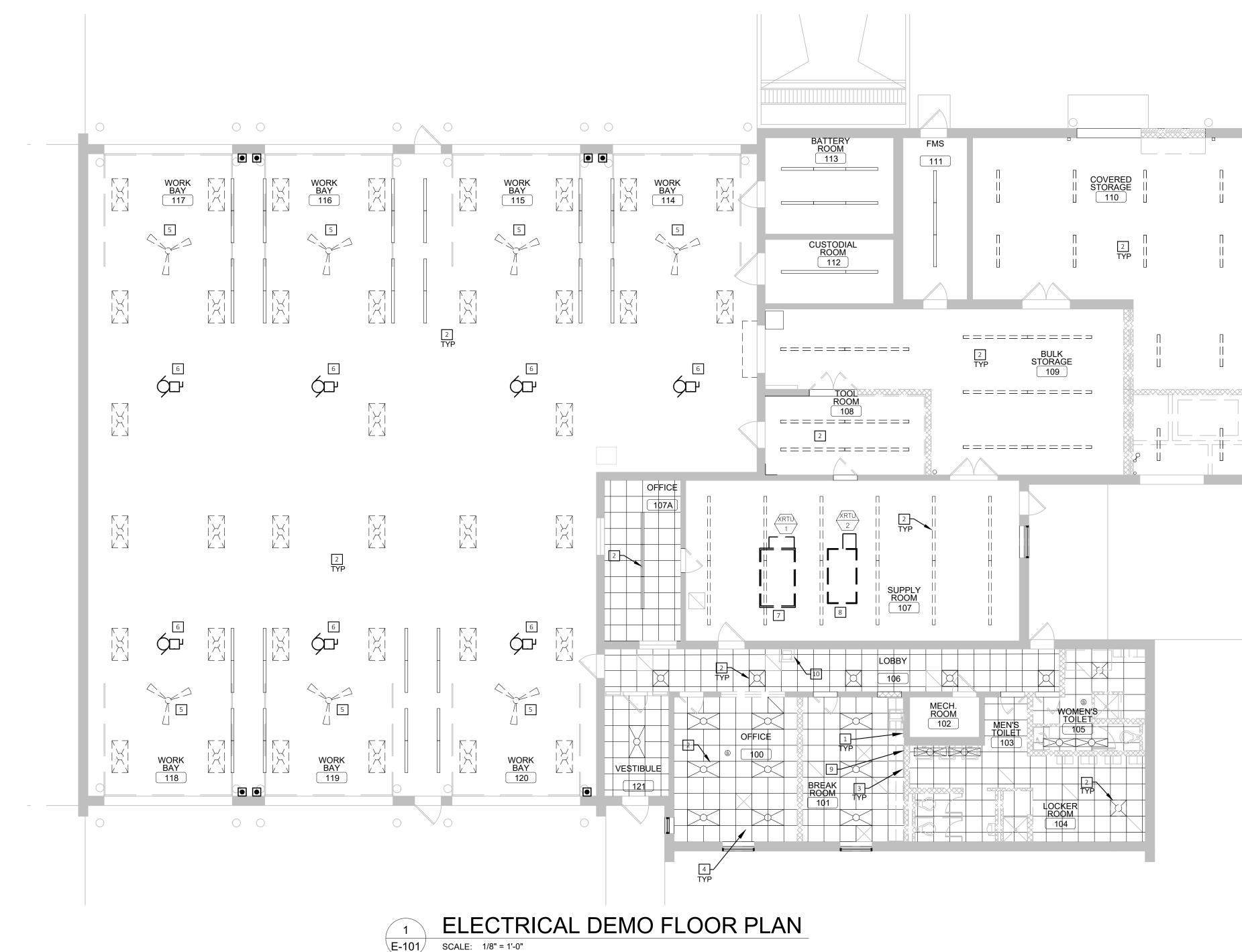
CAD DWG FILE: DRAWN BY: MEA CHECKED BY: JST DESIGNED BY: JST

SHEET TITLE:

MECHANICAL **SCHEDULES**

SHEET NUMBER:





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, EXIT SIGNS AND OTHER 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. WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE/PANEL.

D. MISCELLANEOUS WIRING DEVICES, TELE/COMMUNICATION DEVICES, LIGHTING FIXTURES, EXIT LIGHTS, ETC. MOUNTED ON PARTITIONS TO BE REMOVED OR CONCEALED BY NEW CONSTRUCTION SHALL BE DISCONNECTED FROM THEIR SERVICE SOURCE TO ALLOW FOR REMOVAL.

E. MAINTAIN CONTINUITY OF ALL ACTIVE LIGHTING & POWER CIRCUITS. INTERRUPT WIRING AND REROUTE WHERE REQUIRED TO POWER EXISTING DEVICES TO REMAIN. PROVIDE AS-BUILT DRAWINGS INDICATING ALL RELOCATIONS AND CIRCUIT ADJUSTMENTS IN PANELBOARDS. UPDATE PANELBOARD CIRCUIT DIRECTORIES FOR ALL PANELBOARDS AFFECTED BY THE WORK.

AREAS.

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

DISCONNECT FEEDERS AND REMOVE BACK TO SOURCE PRIOR TO REMOVAL OF ROOF TOP UNIT. SEE SHEET E103 FOR NEW WORK.

OVEN CIRCUITRY: PRIOR TO REMOVAL OF WALL, DISCONNECT WIRING FOR OVEN, TIE-UP AND MAKE SAFE FOR REUSE. SEE SHEET E103 FOR NEW WORK.

EXISTING WATER COOLER: AFTER WATER COOLER HAS BEEN REMOVED, DISCONNECT AND REMOVE CIRCUITRY BACK TO SOURCE. WALL PATCH WORK BY OTHERS.

DEMOLITION GENERAL NOTES:

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

OWNER RETAINS RIGHTS OF SALVAGE FOR ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT AND 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.

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

H. 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

DEMOLITION KEYED NOTES:

EXISTING WALL OUTLETS: DISCONNECT WALL OUTLETS/DEVICES AND WIRING REMOVED BACK TO PANEL. PATCHING OF WALLS BY OTHERS. FOR ADDITIONAL DEMO WORK, SEE ARCHITECTURAL DRAWINGS

EXISTING LIGHT FIXTURES: DISCONNECT LIGHT FIXTURES, WALL FIXTURES, AND WIRING BACK TO SOURCE. CEILING AND WALL FIXTURES TO BE DISCARDED.

DEMOLISHED WALLS: PRIOR TO WALL DEMOLITION, DISCONNECT WALL OUTLETS/DEVICES AND WIRING REMOVED BACK TO SOURCE. OUTLETS TO BE REMOVED WITH DEMOLISHED WALLS, UNO. FOR ADDITIONAL DEMO WORK, SEE ARCHITECTURAL DRAWINGS.

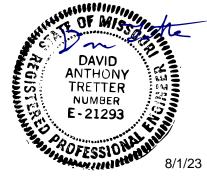
EXISTING SECURITY/FIRE ALARM SYSTEMS: FIRE ALARM CONTRACTOR TO DETERMINE IF EXISTING FIRE ALARM SYSTEM MAY BE REUSED IN WHOLE OR PART. DEMO ANY EXISTING SECURITY/FIRE ALARM DEVICES NOT TO BE REUSED. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR OPERABLE AND FULLY CODE COMPLIANT SYSTEMS. UNUSED WIRING TO BE REMOVED AND DISCARDED.

PRIOR TO REMOVAL OF PADDLE FAN, DISCONNECT POWER AND REMOVE FEEDER BACK TO SOURCE.

PRIOR TO REMOVAL OF OH DOOR AND MOTOR, DISCONNECT FEEDER, TIE-UP AND MAKE SAFE FOR REUSE. SALVAGE DISCONNECT AND REUSE IF COMPATIBLE WITH NEW DOOR MOTOR. SEE SHEET E103 FOR NEW WORK.

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

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



License Number: 021293 Expiration Date: 12/31/23 PROFESSIONAL SEAL CASCO Diversified Corporation MO Certificate of Authority #000329 Arch.

MO Certificate of Authority #000613 Eng.

DAVID A. TRETTER



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

MISSOURI NATIONAL GUARD

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

PROJECT #	T2122-01
SITE #	6300
ASSET#	8136300017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 08/01/2023

CAD DWG FILE: DRAWN BY: RA CHECKED BY: DAT **DESIGNED BY:**

SHEET TITLE:

ELECTRICAL DEMO FLOOR PLAN

SHEET NUMBER:

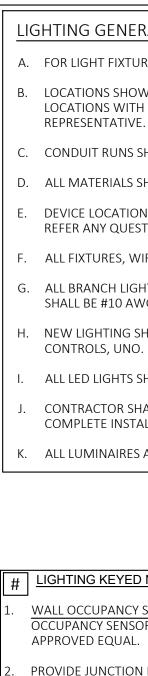
E-101 08/01/2023 SHEET 26 OF 29











- CORRIDOR.

LIGHTING GENERAL NOTES

A. FOR LIGHT FIXTURE SCHEDULE, SEE SHEET E601.

B. LOCATIONS SHOWN ARE APPROXIMATE, CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH OTHER TRADES AND THE OWNER OR THE OWNERS 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 ARCHITECT.

F. ALL FIXTURES, WIRE, AND ELECTRIC DEVICES SHALL BE U.L. APPROVED TYPE. G. ALL BRANCH LIGHTING AND RECEPTACLE CIRCUITS IN EXCESS OF 100 FT FROM PANEL SHALL BE #10 AWG.

H. NEW LIGHTING SHALL BE RECONNECTED TO CURRENT LIGHTING CIRCUITS AND

ALL LED LIGHTS SHALL HAVE DEDICATED NEUTRAL.

CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION . K. ALL LUMINAIRES ARE FED FROM PANEL LP2, U.N.O.

LIGHTING KEYED NOTES:

WALL OCCUPANCY SENSOR: PROVIDE DUAL TECHNOLOGY (PIR & ULTRA-SONIC) OCCUPANCY SENSOR WITH MANUAL ON-OFF, LEGRAND 'WATTSTOPPER' #DW-100 OR

PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING SPACE FOR LIGHTING CIRCUIT(S). EXISTING LIGHTING AND SWITCHING IN THIS AREA TO REMAIN IN-PLACE AND CONNECTED.

CEILING FIXTURE SHALL BE SURFACE MOUNTED TO SUB-CEILING WITH SURFACE CEILING KIT. SEE LIGHT FIXTURE SCHEDULE.

NEW LIGHT FIXTURES IN THIS ROOM/AREA TO BE RECONNECTED TO EXISTING LIGHTING CIRCUIT(S) AND CONTROLS IN THIS ROOM/AREA, UNO.

DISCONNECT, REMOVE EXISTING SITE LIGHT POLE AND SALVAGE FOR REUSE. SEE SHEET A-001 FOR NEW LOCATION. AFTER LIGHT POLE IS IN-PLACE, EXTEND FEEDER AS REQUIRED AND RECONNECT TO EXISTING LIGHTING CIRCUIT(S) AND CONTROLS.

PROVIDE NEW 3-WAY WALL SWITCH AND CONNECT TO LIGHTING FIXTURES IN

EXISTING ROOM EMERGENCY BATTERY FIXTURES TO REMAIN.

INSTALL NEW LIGHT FIXTURES AT SAME MOUNTING HEIGHT AS PREVIOUS FIXTURES. 10. PENDANT MOUNT LIGHT FIXTURES AT 15'-0"AFF TO BOTTOM OF FIXTURE.

STATE OF MISSOURI



DAVID A. TRETTER License Number: 021293 Expiration Date: 12/31/23 PROFESSIONAL SEAL CASCO Diversified Corporation

MO Certificate of Authority #000329 Arch. MO Certificate of Authority #000613 Eng.

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

MISSOURI NATIONAL GUARD

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

PROJECT # T2122-01 6300 SITE # ASSET# 8136300017

REVISION: DATE: **REVISION:** DATE:

REVISION: DATE:

ISSUE DATE: 08/01/2023

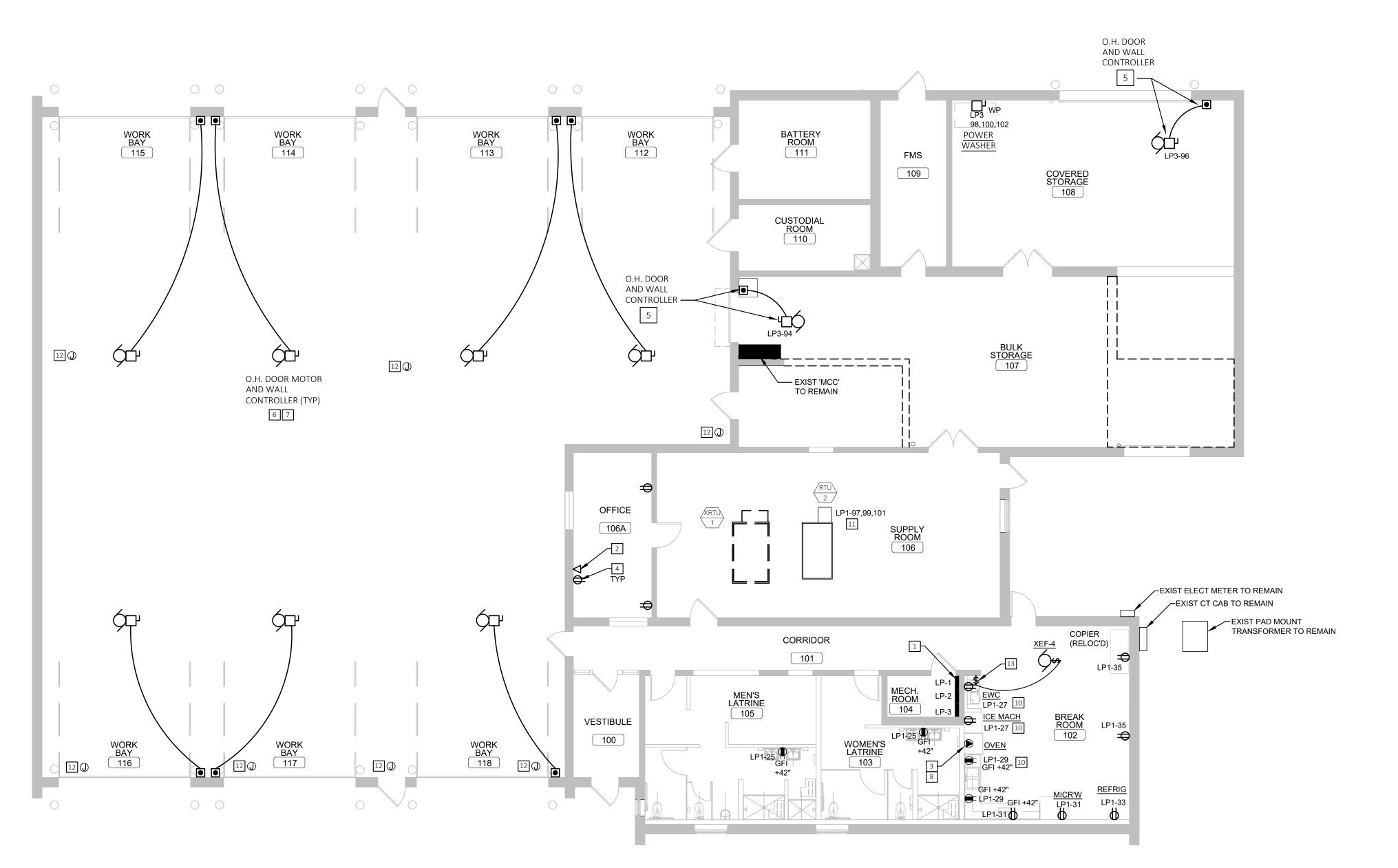
CAD DWG FILE<u>:</u> DRAWN BY: RA CHECKED BY: DAT DESIGNED BY:

SHEET TITLE:

ELECTRICAL LIGHTING FLOOR PLAN

SHEET NUMBER:





1 E-103 SCALE: 1/8" = 1'-0"

ELECTRICAL POWER FLOOR PLAN

<u> </u>	
	POWER
Α.	ALL WORK SH BUILDING CC
В.	WORKMANS
C.	ALL MATERIA
D.	ALL ELECTRIC FOR PROPER SHORT AND (
E.	CONTRACTO
F.	ALL ELECTRIC AND PROPER COORDINATE
G.	SUPPLY AND
Н.	DEVICE LOCA SHOWN. CO
Ι.	ALL WALL OU UNLESS NOT
J.	ALL FIXTURES
К.	ALL WIRING S
L.	ALL REINSTA CURRENT ED
M.	ALL BRANCH
#	POWER
 1.	_ MECHANICAL
	CONTACTOR
	CONTACTOR
2.	TELE/DATA: PULLCORD TO OWNER'S VE
2. 3.	TELE/DATA: PULLCORD TO
3.	TELE/DATA: PULLCORD TO OWNER'S VE OVEN: PROVI
3.	TELE/DATA: PULLCORD TC OWNER'S VEI OVEN: PROVI CONFIGURAT
3. 4. 5.	TELE/DATA: PULLCORD TO OWNER'S VER OVEN: PROVI CONFIGURAT PROVIDE NEW CIRCUIT IN AI
3. 4. 5.	TELE/DATA: PULLCORD TO OWNER'S VE OVEN: PROVI CONFIGURAT PROVIDE NEW CIRCUIT IN AI PROVIDE 30A CONNECT PE AFTER NEW O DOOR MOTO DEMOLITION REQUIRED. C REPRESENTA VERIFY THAT THE REMOVE DISCONNECT
 3. 4. 5. 6. 7. 	TELE/DATA: PULLCORD TO OWNER'S VE OVEN: PROVI CONFIGURAT PROVIDE NEW CIRCUIT IN AI PROVIDE 30A CONNECT PE AFTER NEW O DOOR MOTO DEMOLITION REQUIRED. C REPRESENTA VERIFY THAT THE REMOVE DISCONNECT SIZE, REPLAC REROUTE WI OUTLET AND
3. 4. 5. 6.	TELE/DATA: PULLCORD TO OWNER'S VE OVEN: PROVI CONFIGURAT PROVIDE NEW CIRCUIT IN A PROVIDE 30A CONNECT PE AFTER NEW O DOOR MOTO DEMOLITION REQUIRED. C REPRESENTA VERIFY THAT THE REMOVE DISCONNECT SIZE, REPLAC REROUTE WI OUTLET AND SIZE IS COMI
 3. 4. 5. 6. 7. 8. 9. 	TELE/DATA: PULLCORD TO OWNER'S VE OVEN: PROVI CONFIGURAT PROVIDE NEW CIRCUIT IN A PROVIDE 30A CONNECT PE AFTER NEW O DOOR MOTO DEMOLITION REQUIRED. C
 3. 4. 5. 6. 7. 8. 9. 10. 	TELE/DATA: PULLCORD TO OWNER'S VE OVEN: PROVI CONFIGURAT PROVIDE NEW CIRCUIT IN A PROVIDE 30A CONNECT PE AFTER NEW O DOOR MOTO DEMOLITION REQUIRED. C REPRESENTA VERIFY THAT THE REMOVE DISCONNECT SIZE, REPLAC REROUTE WI OUTLET AND SIZE IS COMI PROVIDE JUN DATA/COMM BETWEEN JU REPLACE PAN DISCONNECT
 3. 4. 5. 6. 7. 8. 9. 10. 	TELE/DATA: PULLCORD TO OWNER'S VE OVEN: PROVI CONFIGURAT PROVIDE NEW CIRCUIT IN A PROVIDE 30A CONNECT PE AFTER NEW O DOOR MOTO DEMOLITION REQUIRED. C REPRESENTA VERIFY THAT THE REMOVE DISCONNECT SIZE, REPLAC REROUTE WI OUTLET AND SIZE IS COMI PROVIDE JUN DATA/COMM BETWEEN JU

GENERAL NOTES:

HALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE ODE, AND ANY OTHER LOCAL CODES AND ORDINANCES.

SHIP SHALL BE FIRST QUALITY AND IN ACCORDANCE WITH BEST FOR THE TRADE BY SKILLED WORKERS.

RIALS SHALL BE NEW, WITH "UL" APPROVED LABELS.

CAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED R OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF O OPEN CIRCUITS.

OR SHALL OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED FOR RUCTION OF THE PROJECT.

CAL EQUIPMENT SHOWN SHALL BE ELECTRICALLY PROTECTED ERLY WIRED IN ACCORDANCE WITH LOCAL BUILDING CODES. TE LOCATIONS AND ELECTRICAL DATA WITH THE OWNER.

DINSTALL NEW ELECTRICAL DEVICES AS SHOWN.

CATIONS SHOWN ON THE PLAN SHALL BE PLACED EXACTLY AS OORDINATE WITH INTERIOR ELEVATIONS.

OUTLETS SHALL BE INSTALLED 18" AFF TO CENTER OF OUTLET, TED OTHERWISE.

RES, WIRE, AND ELECTRIC DEVICES SHALL BE UL APPROVED.

G SHALL BE AS SPECIFIED UNDER ELECTRICAL SPEC SECTION.

ALLED EMERGENCY ALARMS SHALL BE IN COMPLIANCE - NFPA 72 EDITION

I LIGHTING AND RECEPTACLE CIRCUITS IN EXCESS OF 100 FT. TO ER FROM PANEL SHALL BE #10 AWG.

R KEY NOTES:

L ROOM: ALL EXISTING ELECTRICAL PANELS, LIGHTING R IN THIS ROOM TO REMAIN - NO CHANGE.

EC SHALL PROVIDE BACKBOX AT 18"AFF WITH 3/4"C AND TO ACCESSIBLE CEILING SPACE FOR COMMUNICATION CABLING BY ENDOR.

VIDE NEMA 5-30 OUTLET FOR OVEN. VERIFY CORD/PLUG ATION WITH OUTLET.

IEW WALL OUTLETS AND CONNECT TO EXISTING RECEPTACLE AREA/ROOM. FIELD VERIFY.

0A-1P NF DISC SWITCH FOR MOTORIZED OVERHEAD DOOR. PER MANUFACTURER'S INSTRUCTIONS.

V O.H. DOOR IS IN-PLACE, COORDINATE THE INSTALLATION OF THE TOR AND WALL OPERATOR. EXTEND FEEDER, TIED-UP DURING N WORK AND CONNECT DOOR MOTOR AND WALL OPERATOR AS COORDINATE ALL ELECTRICAL WORK WITH O.H. DOOR ATIVE.

T THE LOAD OF THE NEW O.H. DOOR MOTOR IS EQUAL OR LESS VED O.H. DOOR MOTOR AND NOT REQUIRING LARGER T AND CIRCUIT BREAKER SIZE. IF LARGER THAN CURRENT BREAKER CE CIRCUIT BREAKER IN PANEL AND INCREASE FEEDER SIZE.

IRING PREVIOUSLY TIED-UP DURING DEMO WORK TO NEW OVEN ND RECONNECT AS REQUIRED. VERIFY CIRCUIT BREAKER & WIRE MPATABLE WITH NEW OUTLET.

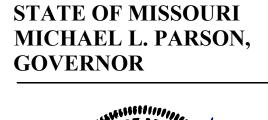
JNCTION BOX HIGH IN CEILING SPACE FOR IMUNICATION CABLES BY OTHERS. ROUTE 1"C WITH PULLCORD JUNCTION BOX AND MAIN COMMUNICATION EQUIPMENT.

ANEL CIRCUIT BREAKER WITH GFCI TYPE.

T FURNISHED WITH UNIT, FED WITH 3#8, #10G, 3/4"C. EXTEND TU RECEPTACLE CIRCUIT TO THIS UNIT'S RECEPTACLE.

REMOVAL OF GAS FIRED HEATER, DISCONNECT CIRCUIT AND TIE-UP AFTER NEW GAS FIRED HEATER IS IN-PLACE, RECONNECT TO CIRCUIT.

0A-1P HP RATED WALL TOGGLE SWITCH AND CONNECT TO HAUST FAN. COORDINATE WORK WITH MC.





DAVID A. TRETTER License Number: 021293 Expiration Date: 12/31/23 PROFESSIONAL SEAL CASCO Diversified Corporation MO Certificate of Authority #000329 Arch.

MO Certificate of Authority #000613 Eng.



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

MISSOURI NATIONAL GUARD

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

PROJECT #	T2122-01
SITE #	6300
ASSET#	8136300017

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE:

ISSUE DATE: 08/01/2023

CAD DWG FILE: DRAWN BY: RA CHECKED BY: DAT **DESIGNED BY:**

SHEET TITLE:

ELECTRICAL POWER FLOOR PLAN

SHEET NUMBER:

E-103 08/01/2023 SHEET 28 OF 29

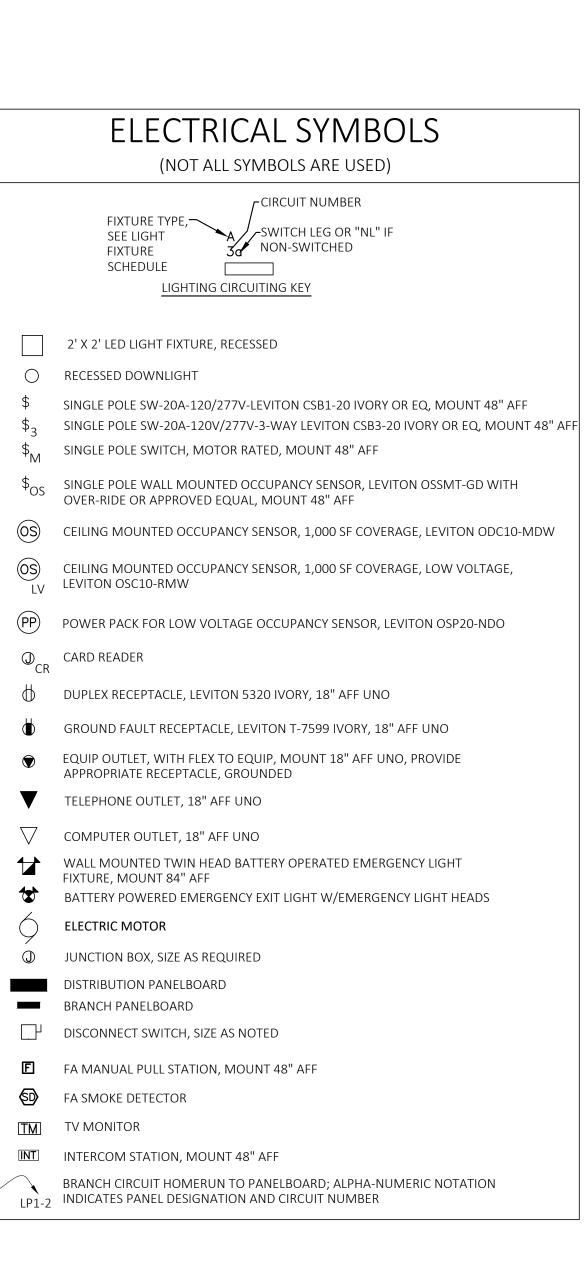
TYPE	MANE	CATALOG		L	AMP DATA	BEMARKS	WATTS
TYPE	MANF	NO.	**	NO.	LAMPS		WAIIS
Α	METALUX	22CZ2-44-UNV-L840-CD1-U	L	1	4400 LUMENS 4000K LED	2' X 2' LED TROFFER, RECESSED MTD, 0-10V DIMMABLE FIXTURE	33W
A1	METALUX	22CZ2-44-UNV-L840-CD1-U WITH DF-22W-U KIT	L	1	4400 LUMENS 4000K LED	2' X 2' LED TROFFER, RECESSED MTD WITH DRYWALL FRAME KIT, 0- 10V DIMMABLE FIXTURE	33W
в	LEOTEK	ES2-88H-MV-NW-FT-DB-450	L	1	14254 LUMENS 4000K LED	23"WD X 12"DP LED WALL MOUNT FIXTURE, DIFFUSED LENSE, 0-10V DIMMABLE FIXTURE, DARK BRONZE FINISH	126W
с	METALUX	4SNLED-LD5-41SL-LW-UNV-L840-CD1-U	L	1	4214 LUMENS 3500K LED	4-FT LED STRIP LIGHT FIXTURE, 0-10V DIMMABLE FIXTURE	35W
D	PORTFOLIO	LDRT6B-15-D010 (HOUSING) EU6B-1020-80-35 (POWER MODULE) 6LB-M-1-H (TRIM)	L	1	1500 LUMENS 4000K LED	6" DIAMETER, RECESSED DOWNLIGHT, 0-10V DIMMABLE FIXTURE, WHITE FINISH	16W
E	SURE-LITE	APEL	L	2		WALL MOUNT 2-HEAD EMERGENCY BATTERY FIXTURE, WHITE FINISH	2W

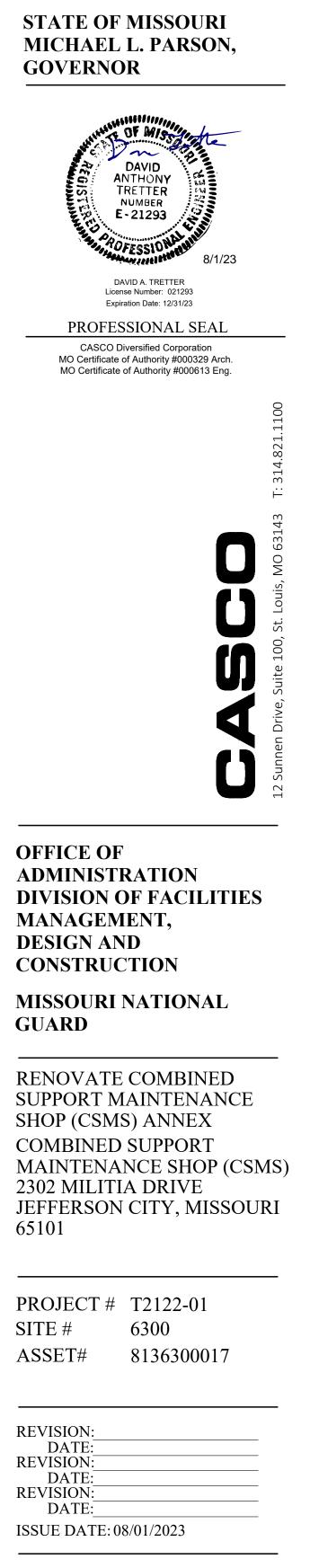
C. ALL LUMINAIRES ARE 120V, UNLESS NOTED OTHERWISE.

ABBREVIATIONS									
	(NOTE: NOT ALL ABE		RE USED)						
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY						
AL	ALUMINUM	EWC	ELECTRIC WATER COOLER						
AMP	AMPERE	EXISTG	EXISTING						
ATS	AUTO-TRANSFER-SWITCH	GFCI	GROUND FAULT CURRENT INTERUPTER						
BFG	BELOW FINSHED GRADE	FL	FLOOR						
BLDG	BUILDING	FLUOR	FLUORESCENT						
СВ	CIRCUIT BREAKER	GND OR (G)	GROUND						
скт	CIRCUIT	IG	ISOLATED GROUND						
CLG	CEILING	ЈВ	JUNCTION BOX						
COND OR "C"	CONDUIT	МСВ	MAIN CIRCUIT BREAKER						
CONN	CONNECT	MDP	MAIN DISTRIBUTION PANEL						
CONT	CONTRACTOR	MLO	MAIN LUG ONLY						
CU	COPPER	мто нт	MOUNTING HEIGHT						
сл	CURRENT TRANSFORMER	NF	NON FUSED						
DIM	DIMMER	NIC	NOT IN CONTRACT						
DMC	DESTINATION MATERNITY	OFOI	OWNER FURNISH, OWNER INSTALL						
DISC SW	DISCONNEC SWITCH	RT	RAIN TIGHT, NEMA 3R						
DP	DOUBLE POLE	RTU	ROOF TOP UNIT						
DT	DOUBLE THROW	sw	SMITCH						
DPP	DISTRIBUTION POWER PANEL	UG	UNDER GROUND						
EC	EMPTYCONDUIT	UNO	UNLESS NOTED OTHERWISE						
EF	EXHAUST FAN	WP	WEATHER-PROOF						
V.I.F.	VERIFY IN FIELD	XFMR	TRANSFORMER						

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.

	MC	MOUNT: SURFACE 12					120/208 3-PHASE, 4W			EX PANEL			CAPACITY: 225A			INT CAP: EXISTING			NG	C I
NOTES	LOCATION: ELECTRICAL ROOM							LUGS:			MLC	D	DEMAND LOAD:			AV. FAULT:		EXISTING		
2	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	
	85						PROVISIONS	20	1	Α	40	2							86	
	87						EXISTING	20	2	В	40	2							88	
	89					20	2	С	40	2	EXISTING						90			
	91						Α	40								92				
	93						EXISTING	70	3	В	20	1	O.H DOOR				1.9		94	С,
	95									С	20	1	O.H DOOR				1.9		96	C
	97			2.4				30	3	A B C		3	POWER WASHER				1.3		98	
),D	99			2.4			RTU-2				20						1.3		100	C
	101			2.4													1.3		102	
	103						PROVISIONS			Α									104	
	105						PROVISIONS			В	20	3	EXISTING						106	
	107						PROVISIONS			С	С								108	
	109				ļ		EXISTING	20	1	Α			EXISTING						110	
	111						EXISTING	20	1	В	20	3							112	
	113						EXISTING	20	1	С									114	
	115						EXISTING	20	1	Α	20	1	EXISTING						116	
	117						EXISTING	20	1	В	20	1	EXISTING						118	
	119						EXISTING	20	1	С	20	1	EXISTING						120	
	121									Α	20	1	EXISTING						122	
	123						EXISTING	20	3	B	200	3	EXISTING						124	
	125									C	20								126	
	127						EXISTING	20	1	A			EVICTING						128	
	129						EXISTING	20	1	B	50	2	EXISTING						130	
	131 133						EXISTING	50	2	C A	20	1	SPARE						132 134	
	135						EXISTING			B	20	1	SPARE						134	\vdash
	137						LAISTING	20	2	C	20	1	PROVISIONS						138	⊢
	139						EXISTING			A	20	1	EXISTING						140	\vdash
	141						EXIGNING	30	2	В	20		EXISTING						142	\vdash
	143						PROVISIONS	_		C	20	2	Enormo						144	
	i i i i i					TYPE	CONNECTED		DEM)	DEM	AND FORMULA	1			TOTAL	LOAD		
	PHASE BALANCE				LIGHTING		0.0 KVA		0.0 KVA			LOAD X 125% NEC 210.19 CONTINUOU			;	CONNECTED				
	ф LOAD %		RECEPTACLE		0.0 KVA	0.0 KVA				10KV	+ 50% REMAINDER NEC 220.44		14.9 KVA		13.5KVA		1			
	Α	3.2 KVA 24%		HVAC		7.2 KVA	5.8 KVA				LOAD	X 80% (USED MCA IN CALCULATION)		ON)	41.4A		37.4A			
	В	5.1 KVA 38%		MISC		7.7 KVA	7.7 KVA				LOAE	X 100% NEC 210.19 NON-CONT.			FILEN		AME:		1	
	С	5.1 KVA 38%		NP		0.0 KVA	0.0 KVA				0 NO	NCOINCIDENTAL LOADS NEC 220.60			Copy of 2202009 LOAD.			.xlsm		





CAD DWG FILE: DRAWN BY: RA CHECKED BY: DAT **DESIGNED BY:**

SHEET TITLE:

ELECTRICAL LEGEND AND SCHEDULES

SHEET NUMBER:

E-601 08/01/2023 SHEET 29 OF 29