Attachment B

MAMMOTH MULTIPURPOSE ARFF/SRE BUILDING -PEDC REVIEW SET 04/01/2025

1300 AIRPORT ROAD MAMMOTH LAKES, CA 93546



This drawing has been prepared solely for the use of MAMMOTH YOSEMITE AIRPORT and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816

Project Leader

MAMMOTH YOSEMITE **AIRPORT**

MAMMOTH MULTIPURPOSE ARFF/SRE BLUIDING

MAMMOTH, CALIFORNIA
Drawing Title
COVER SHEET

12" = 1'-0" IN2024-0022

G00-00

ARCH E Title Block - v.2023 - Rev (July/23) - Copyright © 2023



DATE ISSUED FOR F

This drawing has been prepared solely for the use of the OWNER and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and da 'x' the Architect or Engineer.

Project Component

Kev Pla

Consultants
Civil:
Landscape:
Architecture:
Structural:

Seal(s)

Mechanical: Electrical:

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager

BIM Lead

Design Lead

Drawn
Author

Project Leader

Checked

OWNER

Project
MAMMOTH ARFF/SRE

MAMMOTH, CALIFORNIA

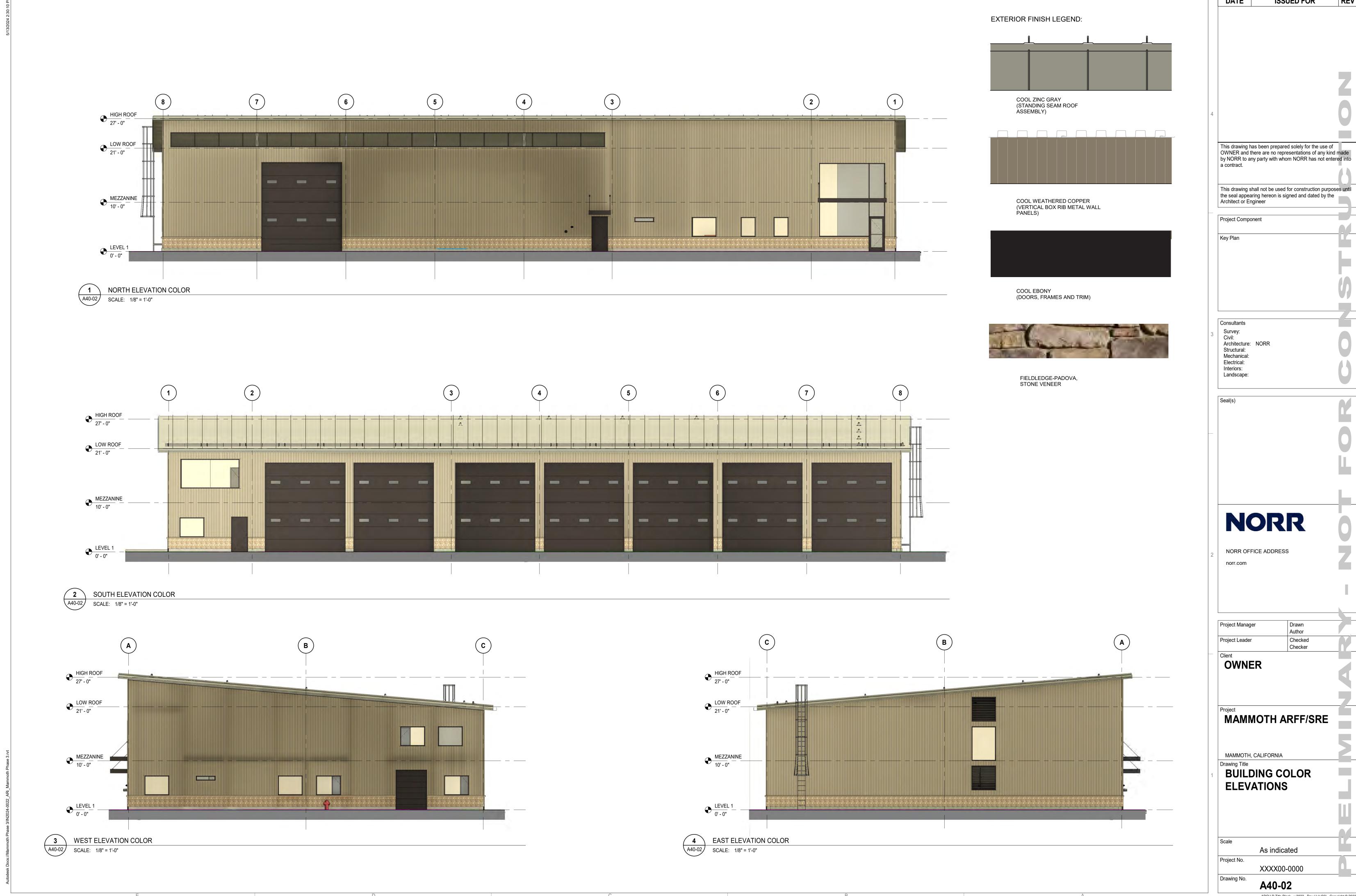
COLOR PERSPECTIVE VIEW

Scale:

Project No. XXXX00-0000

A40-00

ARCH D Title Block - R18.3 (Sept 12/19) Copyright © 2019



REV DATE **ISSUED FOR**

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KHA GENERAL CONSTRUCTION NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR THE LOCAL JURISDICTIONAL STANDARDS (LATEST ED ITION), AND ANY SPECIAL PROVISIONS ADOPTED BY THE LOCAL JURISDICTION, THE SUBDIVISION RULES AND REGULATIONS OF THE LOCAL JURISDICTION (LATEST EDITION), THE PROJECT SPECIFICATION BOOK, AND THESE CONSTRUCTION PLANS. THE LOCAL JURISDICTIONAL SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE OWNER AND ENGINEER SHALL BE CONTACTED PRIOR TO CONSTRUCTION
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
- 3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE TOWN. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCEMENT OF ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR 'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
- 6. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE TOWN, ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE TOWN AND NOTIFICATION TO THE ARCHITECT AND THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE TOWN, ENGINEER, AND OWNER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- 7. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- 8. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
- 9. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION.

 OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION ADJUSTMENTS, RELOCATIONS AND INSTALLATIONS OF FRANCHISE UTILITIES NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION
- CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND FIELD TESTING, UNLESS SPECIFIED OTHERWISE BY THE OWNER.
- 12. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REPLACE ANY EXISTING FEATURES TO REMAIN THAT ARE DESTROYED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES.
- 13. TRENCH SAFETY DESIGN WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED TRENCH SAFETY PLAN AND SUBMITTALS TO THE JURISDICTIONAL DEPARTMENT(S) FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY EXCAVATION.
- 14. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS ONTO DEVELOPED OR UNDEVELOPED AREAS WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
- 15. ALL AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY SITE CONSTRUCTION NOT INCLUDED WITH THIS SCOPE OF WORK SHALL BE RE-GRADED AND LANDSCAPED OR PAVED (TO WHATEVER CONDITION EXISTED BEFORE DISTURBANCE). ALL DISTURBED AREAS SHALL BE REPAIRED TO THE SAME OR BETTER CONDITION THAN BEFORE AREA WAS DISTURBED.
- 16. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, JURISDICTIONAL STANDARD DETAILS, EROSION CONTROL PLANS AND INSPECTION REPORTS (SWPPP).
- 17. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONTOURS SHOWN ON THE PLANS AND ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE CONSTRUCTION.
- 18. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
- 19. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION. CONTRACTOR IS RESPONSIBLE FOR FILING N.O.I. AND N.O.T. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MANDATED SWPPP SUBMITTALS, RECORD KEEPING, AND REPORTING. CONTRACTOR MUST SUBMIT COPIES OF N.O.I. AND N.O.T. TO THE LOCAL JURISDICTION.
- 20. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS AS DIRECTED BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING NECESSARY PERMITS AND PAYING DUMP FEES.
- 21. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE AS DIRECTED BY THE OWNER.
- 22. WATER LINES CROSSING STORM SEWER LINES AND SANITARY SEWER LINES SHALL BE IN CONFORMANCE WITH LOCAL JURISDICTIONAL SPECIFICATIONS.
- 23. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE STRUCTURES AND FITTINGS SHALL BE INSPECTED BY THE TOWN INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- 24. PVC WATERLINES MUST BE PRESSURE TESTED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF AWWA C605. (NAC 445A.67145.7)
- 25. ALL FIRE HYDRANTS, FITTINGS, VALVES, AND PIPE ENDS SHALL BE THRUST-BLOCKED WITH CONCRETE PER JURISDICTIONAL STANDARDS.
- 26. WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT TO REMAIN, CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.
- 27. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO THE CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER.
- 28. THESE PLANS, PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC., DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES

- 29. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING
- 30. ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.
- 31. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR COMPLETING AND
- 32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION.
- 33. ELECTRICAL, TELEPHONE, CABLE TELEVISION AND COMMUNICATION FACILITIES ARE SHOWN SCHEMATICALLY ON THESE PLANS. THE DEVELOPER SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY FOR MAKING APPLICATION FOR THE DESIGN OF EACH UTILITY COMPANY'S FACILITY.

LEGEND

──W — EXISTING WATER LINE
──W — PROPOSED WATER LINE
──SS — PROPOSED SANITARY SEWER LINE
──SD — PROPOSED STORM DRAIN LINE
☑ WATER METER
☑ BACKFLOW PREVENTER
° CO SEWER CLEANOUT
♣ FIRE HYDRANT

GENERAL

- I. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THESE STANDARDS, THE LATEST VERSION OF THE CALTRANS STANDARD SPECIFICATIONS (CSS), AND THE LATEST VERSION OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- WORK SHALL BE DONE IN CONFORMANCE WITH THE MOST RECENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STATE OF CALIFORNIA.
- . WORK ON WATER AND SEWER LINES WITHIN THE TOWN SHALL CONFORM TO THE PERMIT REQUIREMENTS
- 4. WORK IN STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY SHALL BE PERMITTED BY THE TOWN AND CALTRANS AND CONFORM TO THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION REQUIREMENTS.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

Mammoth Lakes

REFERENCE STANDARDS

001-2 SHEET 1 OF 1

STANDARD PLAN

PUBLIC WORKS
DIRECTOR APPROVAL:

DATE: May 7, 2014

ALSO REFER TO SECTION 1, "DEFINITIONS AND TERMS" OF THE CSS. ANY INDIVIDUAL, FIRM, PARTNERSHIP, CORPORATION, OR COMBINATION THEREOF, SUBMITTING A PROPOSAL FOR THE WORK CONTEMPLATED, ACTING DIRECTLY OR THROUGH A DULY AUTHORIZED REPRESENTATIVE. DEPARTMENT: PUBLIC WORKS DEPARTMENT, TOWN OF MAMMOTH LAKES. DIRECTOR: DIRECTOR OF PUBLIC WORKS DEPARTMENT, OR HIS DESIGNEE DUE NOTICE: A WRITTEN NOTIFICATION, GIVEN IN DUE TIME, OF A PROPOSED ACTION WHERE SUCH NOTIFICATION IS REQUIRED BY THE CONTRACT TO BE GIVEN A SPECIFIED INTERVAL OF TIME (USUALLY 48 HOURS OR TWO WORKING DAYS) PRIOR TO THE COMMENCEMENT OF THE CONTEMPLATED ACTION. NOTIFICATION MAY BE FROM ENGINEER TO CONTRACTOR OR FROM CONTRACTOR TO ENGINEER. TOWN ENGINEERING DIVISION, ACTING EITHER DIRECTLY OR THROUGH **ENGINEER:** RESIDENT ENGINEER. THE PUBLIC WORKS DIRECTOR ACTING WITHIN THE SCOPE OF THE PARTICULAR DUTIES ENTRUSTED TO THEM. DESIGN ENGINEER, ENGINEER RESPONSIBLE FOR THE SIGNING OF PLANS **ENGINEER OF** WILL ALSO SET DIRECTION OF DESIGN PROCESS RECORD LABORATORY: THE DESIGNATED LABORATORY AUTHORIZED BY THE TOWN TO TEST MATERIALS AND THE WORK INVOLVED IN THE CONTRACT. THE BRIEFEST INTERVAL OF TIME REQUIRED FOR A CONSIDERED REPLY, PROMPT: INCLUDING TIME REQUIRED FOR APPROVAL OF A GOVERNING BODY. STATE: THE STATE OF CALIFORNIA. CALTRANS STATE OF CALIFORNIA DOT STANDARD PLANS DATED 2010, OR MOST STANDARD PLANS (CSP): CALTRANS STATE OF CALIFORNIA DOT STANDARD SPECIFICATIONS, DATED 2010, **STANDARD** SPECIFICATION (CSS): TOWN COUNCIL: THE BODY CONSTITUTING THE AWARDING AUTHORITY OF THE TOWN. THE TOWN OF MAMMOTH LAKES TOWN ENGINEER: PUBLIC WORKS DIRECTOR REPRESENTATIVE: ENGINEERING DIVISION ACTING EITHER DIRECTLY OR THROUGH PROPERLY AUTHORIZED AGENTS ACTING WITHIN THE SCOPE OF THE

WORKING DAYS:
A WORKING DAY IS DEFINED AS ANY DAY, EXCEPT SUNDAYS, LEGAL HOLIDAYS AND DAYS WHEN WORK IS SUSPENDED BY THE ENGINEER, AS PROVIDED IN SECTION 8 OF THE CSS.

Mammoth Lakes

ABBREVIATIONS AND DEFINITIONS

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

PARTICULAR DUTIES ENTRUSTED TO THEM.

DATE: May 7, 2014 002-2 SHEET 2 OF 2

STANDARD PLAN

ALGEBRAIC DIFFERENCE LOW POINT ASSOCIATED GENERAL CONTRACTORS MAT'L MATERIALS OF AMERICA MECHANICAL JOINT MAMMOTH LAKES FIRE PROTECTION AGGREGATE APWA AMERICAN PUBLIC WORKS ASSOCIATION DISTRICT ASA AMERICAN STANDARD ASSOCIATION MAMMOTH COMMUNITY WATER DISTRICT ASTM AMERICAN SOCIETY FOR TESTING AND NATIONAL ELECTRIC CODE MATERIALS NOT IN CONTRACT **BEGIN CURVE** NOT TO SCALE BENCH MARK ON CENTER PORTLAND CEMENT CONCRETE BOC **BACK OF CURB** BEGIN VERTICAL CURVE ELEVATION POCC POINT ON COMPOUND CURVE BVCS BEGIN VERTICAL CURVE STATION PERF PERFORATED CFS CUBIC FEET PER SECOND PROPERTY LINE CITY TOWN OF MAMMOTH LAKES POWER POLE CENTERLINE P.U.E. PUBLIC UTILITY EASEMENT CMP CORRUGATED METAL PIPE POINT ON VERTICAL CURVE CONSTRUCTION MANAGEMENT PLAN POVC POLYVINYL CHLORIDE CMU CONCRETE MASONRY UNIT POINT OF VERTICAL INTERSECTION CLEAN OUT PVMT PAVEMENT CONC CONCRETE RCP REINFORCED CONCRETE PIPE CORRUGATED PLASTIC PIPE REQMT'S REQUIREMENTS CRAWL SPACE RIGHT OF WAY STATE OF CALIFORNIA DOT STANDARD RAILROAD PLANS, MOST RECENT EDITION STORM DRAIN CORRUGATED STEEL PIPE SUBDRAIN CSS STATE OF CALIFORNIA DOT STANDARD SDMH STORM DRAIN MANHOLE SPECIFICATIONS, MOST RECENT EDITION SEWER LATERAL CU. FT, CF SQ.FT.,SF SQUARE FEET CUBIC FEET CUBIC YARDS SANITARY SEWER DROP INLET SANITARY SEWER MANHOLE STANDARD SPECIFICATIONS FOR PUBLIC DIAMETER SSPWC DIP DUCTILE IRON PIPE WORKS CONSTRUCTION, CURRENT END CURVE EDITION, PREPARED BY SOUTHERN EXISTING GROUND CALIFORNIA CHAPTERS OF AGC AND EL,ELEV ELEVATION **ENGINEER OF RECORD** STATION **EDGE OF PAVEMENT** STND STANDARD STORM WATER POLLUTION EQUIVALENT PREVENTION PLAN EXISTING EVCE END VERTICAL CURVE ELEVATION TEMPORARY BENCH MARK **EVCS** END VERTICAL CURVE STATION TOP OF CURB FINISHED FLOOR TOP OF FOOTING FG FINISHED GRADE TOP OF GRATE FIRE HYDRANT TOML TOWN OF MAMMOTH LAKES FLOWLINE TOWN TOWN OF MAMMOTH LAKES FORCE MAIN TOP OF WALL FIRE PROTECTION SERVICE TYPICAL FEET PER SECOND UNDERGROUND FINISHED SURFACE VERTICAL CURVE GRADE BREAK VAULT VITRIFIED CLAY PIPE **GATE POST** VCP WATER LATERAL HOT MIX ASPHALT HMA WATER SERVICE HIGH POINT HDPE HIGH DENSITY POLYETHYLENE I.FT. INVERT ELEVATION INTX INTERSECTION JMF JOB MIX FORMULA TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS STANDARD PLAN **ABBREVIATIONS AND DEFINITIONS**

LINEAR FEET

ABBREVIATIONS

ALSO REFER TO SECTION 1 OF THE CSS:

Mammoth Lakes PUBLIC WORKS DIRECTOR APPROVAL:

Mammoth Lakes PUBLIC WORKS DIRECTOR APPROVAL:

DESCRIPTION	EXISTING	PROPOSED
MONUMENT	•	0
POWER POLE	D	P
PROPERTY LINE	P	₽
GAS LINE	—— p —— , —— s ——	——Р —— , —— ;
ROCK WALL	000000	00000
SAND		
SANITARY SEWER W/SIZE & DIRECTION INDICATOR	8,22 —	- 8'25]-
STORM DRAIN w/SIZE & DIRECTION INDICATOR		—(18*SD)—
SEWER LATERAL	s	— s —
SIGN	 o	 o
STREET LIGHT (LUMINAIF	RE) 🌣	\$
TRAFFIC SIGNAL	0	000
TREE - DECIDUOUS		~
TREE - EVERGREEN		*
TREE SIZE AND TYPE	• 12" P	∘ 12″ P
TREE TO BE REMOVED		¥ 12″ P
WATER LINE		
WATER VALVE	\bowtie	\bowtie
WATTLES	000000	000000
REVISION AND		

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

SYMBOLS

95% CD

DATE: May 7, 2014

STANDARD PLAN

SHEET 2 OF 2

002-2

SHEET 1 OF 2

DATE: May 7, 2014

SHEET NUMBER

G00-01

SHEEL 1 OF /

LTIPURPOSE BUILDING T NCLUDE ARFF AND SRE COMPONENTS

· 00

TION

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NOTE: AI 24. GC SHALL PROVIDE STORAGE CONTAINER FOR ALL CONSTRUCTION MATERIALS. ALL DRAWING CONSTRUCTION MATERIAL TO BE KEPT IN THIS CONTAINER. NO ITEMS SHALL BE STORED IN THE PARKING LOT. GC SHALL VERIFY WITH JURISDICTION HAVING AUTHORITY IF SPECIAL PERMIT IS 25. GC SHALL PROVIDE DUMPSTERS FOR ALL DEMOLITION/SCRAP & SEPARATED RECYCLABLE 27. CONSTRUCTION SHALL TAKE PLACE IN A LIVE ENVIRONMENT AND AT NO TIME SHALL EDESTRIANS BE ROUTED OVER CONSTRUCTION RELATED MATERIALS. ALL WORK DURING BUSINESS HOURS SHALL BE PROPERLY BARRICADED OFF FOR PEDESTRIAN AND TENANT 31. NEW AND EXISTING ILLUMINATED EXIT SIGNS WITHIN THE SCOPE OF WORK SHALL MEET THE ADA AFF 32. GC RESPONSIBLE FOR REMOVAL, DISPOSAL AND RECYCLE OF DEMOLITION AND AFG 33. GC SHALL DEVELOP TIME AND ACTION PLAN AND PROVIDE TO OWNER. GC SHALL REVIEW ALL PERMITTED DOCUMENTS FOR HANDWRITTEN COMMENTS OR OTHER CONDITIONS OF APPROVAL. NOTIFY CLIENT OF ANY COMMENTS WHICH RESULT IN CHANGES TO PROJECT SCOPE. APPRO) 34. CONTRACTORS SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES. IN THE EVENT OF OMISSION OF NECESSARY DIMENSIONS OR INFORMATION, CONTRACTOR SHALL ARCH **AUTO** OVER SCALED MEASUREMENTS. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. ALL PLAN DETAILS AND WALL SECTIONS ARE AVE 36. VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES AT JOB SITE. ALL CONTRACTORS SHALL BLDG COORDINATE THEIR WORK WITH OTHER TRADES AND REPORT DISCREPANCIES, PRIOR TO DEMOLITION OR CONSTRUCTION, TO THE ARCHITECT FOR REVIEW AND CLARIFICATION OR BLK BLVD 37. VERIFY SIZE, LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT TO BE FURNISHED WITH 38 VERIEV SIZE AND LOCATION OF ALL OPENINGS FOR MECHANICAL AND ELECTRICAL BOD EQUIPMENT AND RELATED WORK WITH CONTRACTORS INVOLVED AND EQUIPMENT TO BE FURNISHED FOR CONSTRUCTION DETAILS NOT SHOWN LISE THE MANUFACTURER'S STANDARI BOF DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT BOC 39. CEILING HEIGHTS SCHEDULED ON THE ROOM FINISH SCHEDULE OR REFLECTED CEILING BTWN ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, NOTIFY ARCHITECT. THE CONTRACTORS 41. CONTRACTOR TO CONTACT ANY AND ALL LOCAL UTILITIES TO SUBMIT ALL APPLICABLE PERMIT DOCUMENTS, QUALIFICATIONS, ETC., AND SHALL BE RESPONSIBLE FOR ALL FEE ASSOCIATED WITH PERMITS, UTILITY EXTENSIONS, TAP-INS, ETC. THE CONTRACTOR SHALL BE CEM 42. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AS A RESULT OF THIS PROJECT DAILY, OR AS CFL DIRECTED BY OWNER'S REPRESENTATIVE, AND SHALL DISPOSE OF SAID DEBRIS IN A LEGAL 43. EACH SUBCONTRACTOR IS RESPONSIBLE TO COORDINATE AND SCHEDULE HIS WORK WITH THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS WHOSE WORK SHALL BE CFOI 44. PARKING AT THE SITE BY ALL CONSTRUCTION STAFF SHALL BE LIMITED TO ONLY THE AREAS 45. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS FROM JURISDICTION(S) HAVING AUTHORITY FOR HANDWRITTEN COMMENTS AND OTHER REQUIREMENTS. FORWARD TO CJP 48 THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND LINORSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE CLR LOCATION OF HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER CMP LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CO 49. GC/CONTRACTORS SHALL COORDINATE WITH THE JURISDICTION(S) HAVING AUTHORITY, ALL WORK AND PERMITTING FOR WORK INDICATED IN THE PLANS WHICH IS LOCATED IN THE PUBLIC COL CONT CORR 51. GC SHALL PROVIDE WRITTEN WARRANTIES FOR ALL PRODUCTS, MATERIALS AND SYSTEMS. CPT WARRANTIES SHALL NOT DEPRIVE THE OWNER OF OTHER RIGHTS THE OWNER MAY HAVE UNDER OTHER PROVISIONS OF THE CONTRACT DOCUMENTS AND WILL BE IN ADDITION TO AND CWT DBL DET/DTI

DEPT

DIA

DN

DIM

DWG

EΑ

EΒ

EIFS

ELEC

EQUIP

EW

EWC

EXH

EXP

EXST

EXT

FDC

FFL

FH

FHC

FIN

F.O.C. F.O.F.

F.O.M.

F.O.S.

F.O.T.

FPWH

FRP

EACH

SYSTEM

FOUIPMENT

EACH WAY

EXPANSION

EXISTING

EXTERIOR

FIRE ALARM

FLOOR DRAIN

FOUNDATION

FIRE EXTINGUISHER

FINISH FLOOR LEVEL

FIRE HOSE CABINET

FIRE HYDRANT

FACE OF FINISH

FACE OF STUDS

FACE OF TREAD

FACE OF MASONRY

FINISH (ED)

FACE OF

FLOOR (ING)

FLUSH

FXHAUST

EL, ELEV ELEVATION

EXPANSION BOLT

EXPANSION JOINT

EXTERIOR INSULATION FINISH

ELECTRIC OR ELECTRICAL

ELECTRICAL PANELBOARD

ELECTRIC WATER COOLER

FIRE DEPARTMENT CONNECTION

FIRE EXTINGUISHER CABINET

FINISH FLOOR ELEVATION

FACE OF CURB/CONCRETE

FROST-PROOF WALL HYDRANT

FIBER REINFORCED PLASTIC

ESTIMATE OR ESTIMATED

EQUAL OR EQUIVALENT

	ABBR	EVIA	TIONS LEGEND		
	REVIATIONS ARE GENERAL AND MAY NOT BE APPLICABLE T	O THIS PROJI	ECT. ABBREVIATIONS IN		
11100	MODIFIED	FT	FOOT OR FEET	R	RADIUS
	NEW CONSTRUCTION	FTG	FOOTING	RA	RETURN AIR OR RELIEVING ANGLE
	EXISTING CONSTRUCTION	FURR	FURRING	RD	ROAD, ROUND OR ROOF DRAIN
	SURPLUS	FWP	FABRIC WALL PANEL	RE	REFERENCE, REFER TO
	RELOCATED EQUIPMENT AT	G	GROUND AND NATURAL GAS	REFR	REFRIGERATION OR REFRIGERATOR
	CENTERLINE	GA.	GAUGE	REINF	REINFORCEMENT
	DIAMETER OR ROUND	GAL	GALLON	REQ'D	REQUIRED
	ANCLIOD DOLT OD AID DADDIED	GALV GB	GALVANIZED GRAB BAR	REQ	REQUIRED REVISION
	ANCHOR BOLT OR AIR BARRIER ABOVE	GC	GENERAL CONTRACTOR	REV RF	RUBBER FLOORING
	AIR CONDITIONING		GROUND FAULT CIRCUIT	RFH	ROOF HATCH
	ACOUSTICAL CEILING TILE	0550	INTERRUPTER	ROW	RIGHT OF WAY
	AMERICANS WITH DISABILITIES ACT ABOVE FINISH FLOOR	GFRC GFRG	GLASS FIBER REINFORCED CONCRETE GLASS FIBER REINFORCED GYPSUM	RM RO	ROOM ROUGH OPENING
	ABOVE FINISH GRADE	GI	GALVANIZED IRON (STEEL)	RVS	REVERSE (SIDE)
	AUTHORITY HAVING JURISDICTION	GLB	GLUE-LAM BEAM		, ,
.UM	ALUMINUM	GND	GROUND	S	SOUTH
ΩX	ALTERNATIVE APPROXIMATE	GSF GWB	GROSS SQUARE FEET GYPSUM WALL BOARD	SA SAN	SUPPLY AIR SANITARY SEWER
	ARCHITECTURAL	GWT	GLASS WALL TILE	SC	SOLID CORE
	AUTOMATIC			SCD	SEAT COVER DISPENSER
	AVENUE OR AVERAGE	HB HC	HOSE BIBB	S.D.C. SCHED	SEE CIVIL DRAWINGS
	BULLETIN BOARD	HD	HANDICAPPED HIGH DENSITY	SD	SCHEDULE SMOKE DETECTOR, SOAP
	BOARD	HM	HOLLOW METAL	0.5	DISPENSER AND STORM DRAIN
	BUILDING	HORIZ	HORIZONTAL	S.E.D.	SEE ELECTRICAL DRAWINGS
	BLOCK OR BLOCKING BOULEVARD	HP HR	HIGH POINT AND HORSEPOWER HOUR	SEAL SECT/SEC	SEALANT
	BEAM	HT	HEIGHT	SF SECTION	SQUARE FOOT/FEET
	BOTTOM OF	HVAC	HEATING VENTILATING AIR CONDITIONING	SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
	BASIS-OF-DESIGN OR BOTTOM OF	ID	INCIDE DIAMETED	SE	SOUTHEAST
	DECK BOTTOM OF FRAMING	ID IE	INSIDE DIAMETER INVERT ELEVATION	SHR SHT	SHOWER SHEET
	BASE OF CURB	IG	ISOLATED GROUND	SHTG	SHEETING
	BOTTOM BEARING	igu In	INSULATED GLAZING UNIT INCH	SIM SK	SIMILAR SKETCH
	BETWEEN	INSUL	INSULATION	SL	SLOPE
	BUILT-UP	INT	INTERIOR AND INTERCOM	SMS	SHEET METAL SCREW
	CADINET	INV	INVERT	S.M.D. SND	SEE MECHANICAL DRAWINGS
	CABINET CENTER TO CENTER	JAN	JANITOR	SNR	SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE
	CEMENT	JC	JANITOR CLOSET	SPEC	SPECIFICATION
	CUBIC FEET PER MINUTE COUNTER FLASHING OR COMPACT	KIT	KITCHEN	SQ SS	SQUARE SANITARY SEWER, STAINLESS
	FLUORESCENT LAMP	KO	KNOCKOUT	33	STEEL STAINLESS
	CONTRACTOR FURNISHED/CONTRACTOR			S.S.D.	SEE STRUCTURAL DRAWINGS
	INSTALLED CONTRACTOR FURNISHED/OWNER	LAM LAV	LAMINATE	SSM SST	SOLID SURFACE MATERIAL
	INSTALLED	LBS	LAVATORY POUNDS	SSWC	STAINLESS STEEL STAINLESS STEEL WALL CLADDING
	CORNER GUARD/CENTER OF GRAVITY	LF	LINEAR FEET	ST	STREET
	CEILING HEIGHT	LP	LOW POINT	STA	STATION
	CAST IN PLACE CONTROL JOINT OR	LSF LTF	LINOLEUM SHEET FLOORING LINOLEUM TILE FLOORING	STD STL	STANDARD STEEL
	CONSTRUCTION JOINT		ENGLEOW FILE FLOORING	STRUC	STRUCTURAL
	COMPLETE JOINT PENETRATION	MAS	MASONRY	SUSP	SUSPENDED
	CENTERLINE CEILING	MAX MECH	MAXIMUM MECHANICAL	SW SYM	SOUTHWEST SYMETRICAL
	CLEAR	MFR	MANUFACTURER	STIVI	STWETRICAL
	CONCRETE MASONRY UNIT	MH		Т	TREAD AND TRANSFORMER
	CORRUGATED METAL PIPE	MIN	MINIMUM	TB	TOWEL BAR
	CONCRETE OPENING AND CLEAN- OUT	MIR MISC	MIRROR MISCELLANEOUS	TC T&G	TOP OF CURB TONGUE & GROOVE
	COLUMN	MO	MASONRY OPENING	TD	TOP OF DRAIN
	CONCRETE	MP	METAL PANEL	TELE	TELEPHONE
	CONTINUOUS	MRD	METAL ROOF DECK	TEMP	TEMPERATURE TEMPERED GLASS
	CORRIDOR CARPET	MTD MTL	MOUNTED METAL	TG THK	THICK(NESS)
	CERAMIC TILE	MWK	MILLWORK	THRES	THRESHOLD
	CURTAIN WALL		NORTH OR NEUTRAL	TO	TOP OF
	CERAMIC WALL TILE	N NA	NORTH OR NEUTRAL NOT APPLICABLE	TOC	TOP OF CURB/CONCRETE OR TABLE OF CONTENTS
	DOUBLE	NE	NORTHEAST	TOD	TOP OF DECK
TL	DETAIL	NIC	NOT IN CONTRACT	TOF	TOP OF FRAMING
	DEPARTMENT DRINKING FOUNTAIN	NO., # NOM	NUMBER NOMINAL	TOM TOP	TOP OF MASONRY TOP OF PAVEMENT/PARAPET
	DIAMETER	NOM NR	NOT REQUIRED	TOS	TOP OF PAVEMENT/PARAPET TOP OF SLAB
	DIMENSION	NSF	NET SQUARE FEET	TOW	TOP OF WALL
	DOWN	NTS	NOT TO SCALE	TPD	TOILET PAPER DISPENSER
	DRAWING	NW	NORTHWEST	TS TYP	TUBE STEEL AND TEMP SENSOR TYPICAL

ON CENTER OR OVER COUNTER

OWNER FURNISHED/CONTACTOR

OWNER FURNISHED/OWNER INSTALLED

OUTSIDE DIAMETER

INSTALLED

OPPOSITE HAND

ORIENTED STRAND BOARD

PHOTO-CELL LIGHTING

PORCELAIN FLOOR TILE

PHASE AND PHARMACY

PROPERTY LINE

PLASTIC LAMINATE

PAINT OR PAINTED

PLATE

PLUMBING

PLYWOOD

PROPOSED

PAINTED

RESISTIVE

PAVEMENT

QUARRY TILE

QUARTER

QUANTITY

PANEL

POURED EPOXY FLOORING

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PRESSURE TREATED FIRE

QUARTZ SURFACE MATERIAL

POLYVINYL CHLORIDE

PAPER TOWEL DISPENSER OR

OVERHEAD

OPENING

OPPOSITE

OUT TO BID

OUTSIDE AIR

OFCI

OPG

OPH

OPP

OTB

PLAM

PWD

PNL

PROP

PVMT

QT QTR

QTY

PROJECT INFORMATION

CBC CHAPTER 3	<u>.</u> MIXED USE FACIL	ITY		
CBC CHAPTER 5	<u>i</u>		CBC CHAPTER 6	
CONSTRU	CTION TYPE:	V-B TYPE - (SPRINKLERED)		
OCCUPAN	ICY:	S-1/B MIXED USE	TABLE 601	
TABLE 504 ALLOWAB EXISTING	LE HEIGHT:	45'-0" MAX 27'-0"	PRIMARY STRUCTURAL FRAME BEARING WALLS EXTERIOR INTERIOR NON-BEARING WALLS &	0 HR 0 HR 0 HR 0 HR
	I.4 LE STORIES: D STORIES:	3 STORIES 1 STORY + MEZZANINE	PARTITIONS - EXTERIOR NON-BEARING WALLS & PARTITIONS - INTERIOR	0 HR 0 HR
TABLE 506 ALLOWAB LEVEL 1:		27,000 SF 10,740 GSF	FLOOR CONSTRUCTION & SECONDARY MEMBERS ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR 0 HR
MEZZANIN TOTAL AR		330 GSF 11,070 GSF	SEPARATION OF OCCUPANCIES TABLE 602 F1/S2	1 HR
LANDSCA	PE AREA:	GRAVEL COVER ONLY, NO	LANDSCAPEING WITHIN THE BUILDING	G AREA OF WORK
GROUP B: 3,540 GROUP S: 9,950 S	OF OCCUPIED AF FOR (2019 CPC TA = /30 = 0 OCCUPA 8.5 OC SF/200 = 0 OCCUP 9 OCC SF/5,000 = 0 OCCU 1 OCC TOTAL FEMA MALE	ABLE A): NTS CCUPANTS EACH GENDER PANTS CUPANTS EACH GENDER JPANTS CUPANTS CUPANTS EACH GENDER LOCCUPANTS EACH GENDER LOCCUPANTS EACH GENDER LIE = 19	2022 CALIFORNIA MI 2022 CALIFORNIA PL 2022 CALIFORNIA EL 2022 CALIFORNIA FII 2022 CALIFORNIA EN 2022 CA BLDG STAN CALGREEN COMPLIA PER CALIFORNIA GE	JILDING CODE REEN STANDARDS CODE ECHANICAL CODE LUMBING CODE LECTRICAL CODE RE CODE NERGY CODE IDARDS ADMIN. CODE
TABLE 422.1 - B OCC WATER CLOSETS: REQUIRED 1: 1-50 MALE 1: 1-15 FEMALE URINALS:	PROVIDED 2	LAVATORIES: REQUIRED PROVIDED 1: 1-75 MALE 3 1: 1-50 FEMALE 3	OFF-STREET PARKING SITE PARKING: STALLS -5 ACCESSIBLE - 0	G AND LOADING

			WAL	E = 19		RECYCLE MIN 65%	OF ALL CONSTRUC
\ 1 1 1	FABLE 422. WATER CL REQUIRED I: 1-50 MAL I: 1-15 FEM JRINALS: REQUIRED)	P .E 2 MALE 2	ROVIDED 2	LAVATORIES: REQUIRED 1: 1-75 MALE 1: 1-50 FEMALE	PROVIDED 3 3	OFF-STREET PARKING: SITE PARKING: STALLS -5 ACCESSIBLE - 0 ACCESSIBLE VAN - 1 EV - 0 TOTAL: 6	G AND LOADING
		MULT	IPURPOSI	E ARFF/SRE E	BUILDING IN	IDEX PHASE 2	
	SHEET ORDER	Sheet Number			Sheet Name		
	GENERA	L					
	1	G00-00	COVER SHE	ET.			
	2	G00-01	MULTI-PURF	POSE BUILDING IN	ICLUDE ARFF A	ND SRE COMONENETS	
	3	G01-01	GENERAL IN	NFORMATION			

CALIFORNIA GREEN BUILDING STANDARDS CODE CHECKLIST

G01-02 CONSTRUCTION SAFETY AND PHASING PLAN

G01-03 COORDINATION LAYOUT PLAN

C02-01 DEMOLITION PLAN

C05-03 UTILITY PLAN

GRADING PLAN

UTILITY DETAILS

UTILITY DETAILS

UTILITY DETAILS

MARKING PLAN

C06-03 FENCE PLAN LAYOUT

C07-02 ELECTRICAL DETAILS

A06-01 ROOM FINISH SCHEDULE

FLOOR PLANS

EDGE OF SLAB PLANS

WALL SECTIONS

CEILING DETAILS

GENERAL NOTES

P01-001 PLUMBING NOTES & LEGENDS

A50-02 INTERIOR DETAILS

A50-03 EXTERIOR DETAILS

SECTIONS

P04-001 PLUMBING SCHEDULE

M01-001 DRAWING LIST & LEGENDS

M02-001 MECHANICAL FLOOR PLAN

M03-001 MECHANICAL SCHEDULES M04-001 MECHANICAL DETAILS

E01-01 DRAWING LIST & LEGENDS

FS2.0 FIRE SPRINKLER PLAN FS3.0 FIRE SPRINKLER PLAN

E03-01 SINGLE LINES

FS1.0 SITE PLAN

M02-002 MECHANICAL MEZZANINE PLAN

E10-01 LEVEL 1 OVERALL POWER PLAN

E20-01 LEVEL 1 OVERALL LIGHTING PLAN

P05-001 PLUMBING DETAILS

DETAILS

ENLARGED FLOOR PLANS

ENLARGED FLOOR PLANS AND ELEVATIONS

OVERALL BUILDING ELEVATIONS

STAIR PLANS, SECTIONS AND DETAILS

GENERAL NOTES & TYPICAL DETAILS

P02-001 NEW PLUMBING FLOOR PLAN - CW. HW AND GAS

P02-002 NEW PLUMBING FLOOR PLAN - SS AND V

P03-002 PLUMBING ISOMETRIC - SS AND V

P03-001 PLUMBING ISOMETRIC - CW. HW. AND GAS

FOUNDATION & MEZZANINE FRAMING PLAN

REFLECTED CEILING PLAN - LEVEL 1

OVERALL BUILDING SECTIONS

DOOR AND WINDOW DETAILS

ROOF PLAN

C06-04 FENCE DETAILS

A10-01 SITE PLAN

A11-01 SITE DETAILS

C07-01 ELECTRICAL PLAN

C06-02 MARKING AND SIGN DETAILS

C07-03 ARFF GATE ELECTRICAL DETAILS

A05-01 DOOR, WINDOW & LOUVER SCHEDULES

C05-04 SANITARY SEWER PLAN & PROFILE

BUILDING CODE ANALYSIS

G02-01

C03-01

C03-02

C05-05

C05-06

C05-07

C06-01

A20-03

A22-01

A42-01

A50-01

A61-01

S1.1

S2.1

S4.1

S5.1

STRUCTURAL

PLUMBING

MECHANICAL

FIRE SPRINKLER

Grand total: 81

ARCHITECTURE

the seal appearing hereon is signed and dated by the Architect CALIFORNIA GREEN BUILDING STANDARDS CODE CHECKLIST or Engineer G02-04 CALIFORNIA GREEN BUILDING STANDARDS CODE CHECKLIST G02-05 CALIFORNIA GREEN BUILDING STANDARDS CODE CHECKLIST G03-01 ACCESSIBLE DETAILS Project Component G03-02 PLUMBING ACCESSIBILITY DETAILS G04-01 TYPICAL NON-BEARING FRAMING DETAILS Key Plan G04-02 TYPICAL FRAMING DETAILS C01-01 CIVIL SITE PLAN AND GENERAL NOTES C01-02 TEST HOLE LOCATION PLANS C01-03 TEST HOLE BORING LOGS TYPICAL SECTIONS C04-01 DRAINAGE PLAN AND PROFILE C04-02 DRAINAGE DETAILS C05-02 GENERAL NOTES. ABBREVIATIONS. & LEGEND

> Consultants Brandley Engineering Kimley-Horn Architecture: NORR Structural: Bevier Structural Eng Mechanical: NORR Electrical: NORR Interiors: NORR Fire Sprinkler: Sacramento Engineering Consultants

This drawing has been prepared solely for the use of

MAMMOTH YOSEMITE AIRPORT and there are no

whom NORR has not entered into a contract.

representations of any kind made by NORR to any party with

This drawing shall not be used for construction purposes until

ISSUED FOR

DATE

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager JON PRICE Checked Project Leader

MAMMOTH YOSEMITE AIRPORT

MIKE NOVAK

ARFF/SRE BLUIDING

MAMMOTH MULTIPURPOSE

MAMMOTH, CALIFORNIA

GENERAL INFORMATION

12" = 1'-0"

IN2024-0022

G01-01 ARCH E Title Block - v.2023 - Rev (July/23) - Copyright © 2023



DEFERRED SUBMITTAL

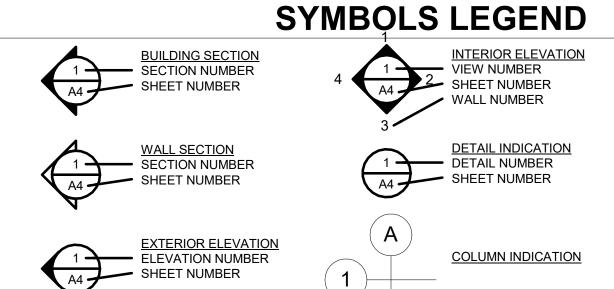
1. PRE-ENGINEERED METAL BUILDING DRAWINGS AND CALCULATIONS 2. PRE-FABRICATED AWNING ENGINEERING/ANCHORAGE 3. PROPANE TANK AND CONCRETE PAD 4. METAL STAIR ASSEMBLIES

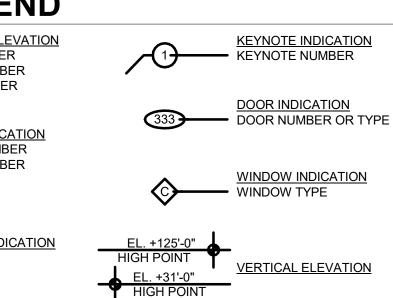
NOTE; CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE ALL DEFERRED SUBMITTALS AND SUBMIT TO AHJ FOR REVIEW.

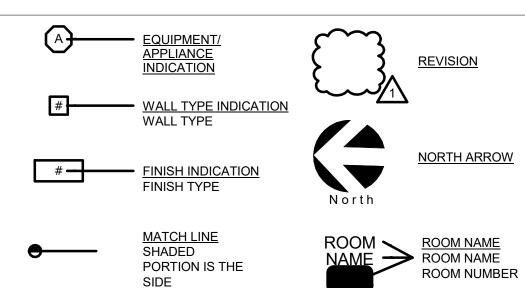
SEPARATE PERMIT

1. SITE WORK PERMIT BEYOND BUILDING PACKAGE'S AREA OF WORK

FRT, FIRE-RETARDANT TREATED WOOD FS, FIRE SERVICE







CONSIDERED

FLECTRICAL/FIRE ALARM/FIRE SUPPRESSION: CONTRACTOR: TBD SACRAMENTO ENGINEERING CONSULTANTS 10555 OLD PLACERVILLE ROAD ARCHITECT: SACRAMENTO, CA 95827 NORR ASSOCIATES, INC. PHONE: (916) 368-4468 CONTACT: 1631 ALHAMBRA BLVD, STE 100 SACRAMENTO, CA 95816

PHONE: (916) 453-3809 CONTACT: MIKE NOVAK 2479 SUNRISE BLVD. MECHANICAL/PLUMBING: NORR ASSOCIATES, INC. 1631 ALHAMBRA BLVD., SUITE 100 CONTACT: SACRAMENTO, CA 95816

NORTH ARROW

PHONE: (916) 453-3825 CONTACT: BENJAMIN SPRINKLE

BEVIER STRUCTURAL ENGINEERING

GOLD RIVER, CA 95670

UNO

VENT

VERT

VEST

VCT

VTR

VIF

W/O WITHOUT WB WALL BASE WATER CLOSET OR WALL COVERING WOOD WD WGL WIRE GLASS WALK OFF MAT WOM WASTE RECEPTACLE

WATERPROOF OR WORK POINT WEATHER-RESISTIVE BARRIER WINDOW TREATMENT WATER VALVE WELDED WIRE FABRIC

UNIFORM DISTRIBUTED LOAD

UNLESS NOTED OTHERWISE

UPHOLSTERY FABRIC

VOLTS AND VENT

VAPOR BARRIER

VERIFY IN FIELD

VENT THRU ROOF

VINYL COMPOSITION TILE

VINYL WALL COVERING

WEST, WATTS AND WATER

VENTILATION

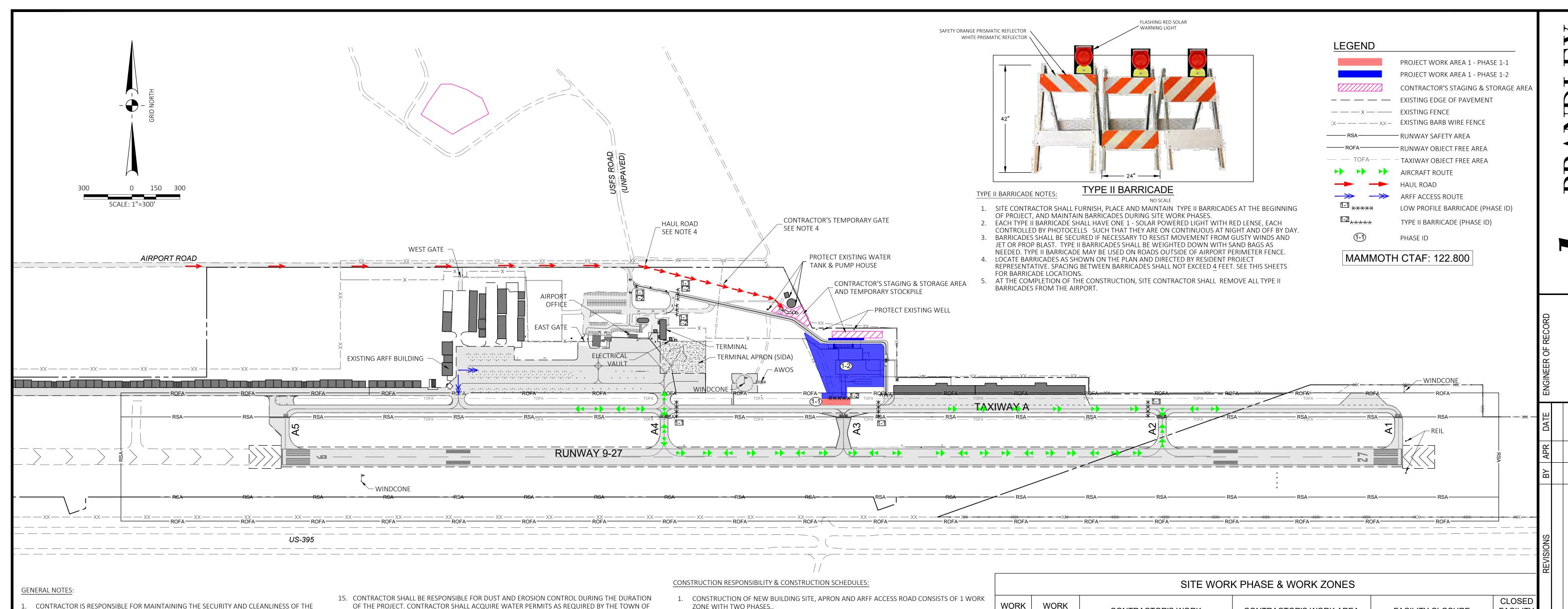
VERTICAL

VESTIBULE

VENT RISER

PROJECT TEAM

PHONE: (916) 631-3030



- L. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SECURITY AND CLEANLINESS OF THE WORK SITE AND CONTRACTOR'S STORAGE AREA AT ALL TIMES
- TIMES. APRON AND TAXIWAYS SHALL BE MAINTAINED BROOM CLEAN. 3. CONTRACTOR SHALL ABIDE BY ALL AIRPORT REGULATIONS AND RESTRICTIONS. CONTRACTOR

2. CONTRACTOR SHALL MAINTAIN HAUL ROAD AND PAVED SURFACES CLEAN OF DEBRIS AT ALL

- BADGES MINIMUM OF 1 WEEK PRIOR TO START OF WORK.
- 4. CONTRACTOR SHALL CONSTRUCT A 24' HAUL ROAD FROM THE END OF AIRPORT ROAD TO THE CONTRACTOR'S STAGING AREA WEST OF THE WATER STORAGE TANK AND PUMP HOUSE. CONTRACTOR SHALL MAINTAIN THIS HAUL ROAD FOR ALL CONSTRUCTION EQUIPMENT AND MATERIAL DELIVERIES FOR DURATION OF THE PROJECT. CONTRACTOR AND AIRPORT SHALL COORDINATE THE LOCATION OF THE HAUL ROAD. THIS CONTRACTOR'S HAUL ROAD ACCESSES THE AIRPORT THROUGH A 4 STRAND BARB WIRE FENCE. CONTRACTOR SHALL INSTALL A TEMPORARY GATE AT THIS ENTRANCE TO AIRPORT PROPERTY.
- CONTRACTOR WILL PROVIDE A QUALIFIED FLAGGER WITH RADIO TO MONITOR AIRPORT FREQUENCY, 122.80 MHZ AND OBSERVE AIRCRAFT OPERATIONS WHEN CONTRACTOR IS WORKING NEAR ACTIVE RUNWAYS, TAXIWAYS AND RESTRICTED AREAS.
- WHEN CONSTRUCTION ACTIVITY IS WITHIN THE RUNWAY OBJECT FREE AREA OR TAXIWAY OBJECT FREE AREA, CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE, A MINIMUM OF ONE WEEK IN ADVANCE OF SUCH ACTIVITY AND VERIFY CLOSURE OF TAXIWAY OR RUNWAY 48 HOURS PRIOR TO PLACING BARRICADES. CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN BARRICADES TO CLOSE THAT PORTION OF TAXIWAY IN WHICH THE CONTRACTOR IS WORKING.
- CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN LIGHTED BARRICADES DURING CLOSING OF THE ACCESS ROAD. CONTRACTOR PROVIDED BARRICADES SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE PLANS. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN 2 WEEKS BEFORE ANY WORK IN PHASE 1-2.
- 8. CONTRACTOR SHALL WORK WITH RPR AND OPERATIONS MANAGER TO MAINTAIN ACCESS TO THE WATER STORAGE TANK AND PUMP HOUSE.
- CONTRACTOR SHALL NOT TRAVEL ON OR ACROSS ANY RUNWAY OR TAXIWAY PAVEMENT. CONTRACTOR SHALL ACCESS WORK AREA BY WAY OF THE DESIGNATED HAUL ROAD FROM AIRPORT ROAD.
- 10. CONTRACTOR'S STORAGE AREA SHALL BE DESIGNATED IN THE AREA SHOWN ON THE PLANS AND THE PERIMETER MARKED BY APPROVED BARRICADES OR FENCING. NO SEPARATE PAYMENT FOR CLEARING & GRADING.
- 11. CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS AND BENCH MARKS FROM
- 12. CONTRACTOR SHALL VERIFY LOCATION AND PROTECT ALL EXISTING UTILITIES. SHOULD CONTRACTOR ENCOUNTER AND DAMAGE A WATERLINE ON THE AIRPORT, THEY SHALL IMMEDIATELY NOTIFY THE LOCAL FIRE DEPARTMENT AND THE AIRPORT
- 13. IN CASE OF AN AIRCRAFT EMERGENCY THE AREA AROUND THE AIRCRAFT SHALL BE EVACUATED AND NOT REENTERED BY THE CONTRACTOR WITHOUT GIVEN PERMISSION EXCEPT FOR LIFESAVING ACTIVITIES.
- 14. ALL GATES USED BY THE CONTRACTOR SHALL REMAIN CLOSED AT ALL TIMES EXCEPT WHEN AUTHORIZED EQUIPMENT IS ACTUALLY ENTERING THE AIRPORT. DURING CONTINUOUS USE OF A GATE FOR DELIVERY OF EQUIPMENT OR MATERIALS, CONTRACTOR SHALL REQUEST THAT THE AIRPORT PLACE THE GATE IN A LOCKED OPEN STATE; CONTRACTOR SHALL PROVIDE A FLAGGER, TRAINED BY THE AIRPORT AND PLACE THE FLAGGER AT THE OPEN GATE TO KEEP UNAUTHORIZED PERSONNEL AND WILDLIFE FROM ENTERING THE AIRPORT.

16. CONTRACTOR SHALL PROVIDE MATERIAL BACKING TO EXISTING TAXIWAY PAVEMENT WITHIN ROFA AFTER EXCAVATION TO SUBGRADE. TAPER SHALL BE IN PLACE PRIOR TO OPENING TAXIWAY A. TAPER SHALL NOT EXCEED A 5% SLOPE.

MAMMOTH LAKES OR MONO COUNTY PRIOR TO START OF ANY WORK ON THE AIRPORT.

- WILL REGISTER ALL PERSONNEL WITH AIRPORT AND DESIGNATE LEAD PERSONNEL FOR ACCESS 17. ALL EQUIPMENT OPERATING DURING DAYLIGHT HOURS SHALL BE EQUIPPED WITH AN ORANGE AND WHITE CHECKERED FLAG OR FLASHING AMBER BEACON. EQUIPMENT OPERATING IN LOW VISIBILITY CONDITIONS, DAWN OR DUSK HOURS SHALL BE EQUIPPED AND USE AN AMBER FLASHING BEACON.
 - ALL TRASH SHALL BE PLACED IN WASTE CONTAINERS TO PREVENT THE ATTRACTION OF WILDLIFE. WASTE CONTAINERS SHALL BE EQUIPPED WITH LIDS AND SECURED AT ALL TIMES. NO TRASH OR DEBRIS SHALL BE LEFT ON SITE BY THE CONTRACTOR.
 - 19. NO DISPOSAL SITES LOCATED ON AIRPORT PROPERTY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING OFF SITE ALL EXISTING DEMOLISHED AND EXCAVATED MATERIALS NOT REUSED AS AGGREGATE SUBBASE OR SELECT FILL. CONTRACTOR SHALL SECURE A DISPOSAL SITE AND OBTAIN ALL PERMITS. NO SEPARATE PAYMENT FOR DISPOSAL SITE, DISPOSAL PERMIT OR HAULING OFFSITE.
 - 20. CONTRACTOR SHALL INSTALL THE TEMPORARY BMP'S AS REQUIRED BY THE SWPPP AT THE TEMPORARY STOCKPILES LOCATED IN THE CONTRACTOR'S STORAGE AND STAGING AREA.
 - 21. CONTRACTOR WILL BE REQUIRED BY THE SWPPP TO RESEED DISTURBED AREAS.
 - 22. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK, THE CONTRACTOR SHALL CONTACT U.S.A. - UNDERGROUND SERVICE ALERT - AT (800) 642-2444 AND REQUEST THAT UTILITY OWNERS MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR FACILITIES IN THE WORK SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN ARE FROM AVAILABLE RECORDS AND FIELD MEASUREMENTS.

- ZONE WITH TWO PHASES..
- 2. WORK ZONE 1, PHASE 1-1 IS THE CONSTRUCTION OF THE ARFF ACCESS ROAD WITHIN THE TAXIWAY OBJECT FREE AREA OF TAXIWAY A AND WILL REQUIRE THE CLOSURE OF A PORTION OF TAXIWAY A FROM TAXIWAY A2 TO A4. DURING THIS PHASE WORK AIRCRAFT WILL BE REQUIRED TO BACK TAXI ON THE RUNWAY. VEHICLE ACCESS TO THE HOT CREEK HANGARS ON TAXIWAY A WILL BE COORDINATED WITH AIRPORT OPERATIONS AND CONTROLLED BY CONTRACTOR FLAGGERS POSTED AT THE BARRICADES.
- 3. CLOSURE OF TAXIWAY A FOR PHASE 1-1 WILL ONLY BE IN PLACE DURING WORKING HOURS. CONTRACTOR WILL BE REQUIRED TO PROVIDE A TEMPORARY GRADE SLOPES OF NO GREATER THAN 5% OF ALL MATERIALS (EXISTING OR IMPORTED) WITHIN 25' OF PAVEMENT EDGE.
- 4. WORK ZONE 1 PHASE 1-2 IS THE CONSTRUCTION OF NEW BUILDING SITE, APRON AND ARFF ACCESS ROAD OUTSIDE OF THE TAXIWAY OBJECT FREE AREA. WORK IN PHASE 1-2 MAY OCCUR SIMULTANEOUSLY WITH PHASE 1-1.
- 5. WORK IN ZONE 1-2 WILL REQUIRE CLOSURE OF THE HANGAR ACCESS ROAD. ACCESS TO THE EAST HANGARS WILL BE COORDINATED WITH AIRPORT OPERATIONS. FBO AND CONTRACTOR. ROUTE TO HANGARS ACROSS THE APRON AND BY WAY OF TAXIWAY A WILL BE CONTROLLED BY FLAGGERS DURING PHASE 1-1 CLOSURES.
- 6. PHASE 1-1 WORK ADJACENT TO TAXIWAY A WILL REQUIRE A QUALIFIED FLAGGER. CONTRACTOR SHALL HAVE AN ON SITE VACUUM SWEEPER TO KEEP TAXIWAY 'A' CLEAN .
- 7. TAXIWAY CLOSURES WILL ONLY BE IN PLACE DURING WORKING DAYS AND WORKING HOURS ONLY. CONTRACTOR WILL BE REQUIRED TO PROVIDE TEMPORARY GRADED SLOPES OF NO GREATER THAN 5% OF ALL MATERIALS (EXISTING AND IMPORTED) WITHIN 25' OF PAVEMENT EDGE. A MAXIMUM VERTICAL EDGE OF 3 INCHES WILL BE ALLOWED TO REMAIN ONCE THE AGGREGATE BASE IS INSTALLED.

		SITE WORK	K PHASE & WORK ZONES		
WORK ZONE	WORK PHASE	CONTRACTOR'S WORK	CONTRACTOR'S WORK AREA	FACILITY CLOSURE	CLOSED FACILITY DAYS
1	1-1	CONSTRUCT NEW ARFF ACCESS ROAD	WORK AREA WITHIN TAXIWAY A OBJECT FREE AREA (TOFA)	TAXIWAY A FROM TAXIWAY A2 TO TAXIWAY A4	
,	1-2	BUILDING SITE, PARKING AREA, APRON AND ARFF ACCESS ROAD	BUILDING SITE, APRON AND ARFF ACCESS	HANGAR ACCESS ROAD	

— 96" (84" WHEN CONNECTED) — SAFETY ORANGE PRISMATIC REFLECTOR WHITE PRISMATIC REFLECTOR RED SOLAR WARNING LIGHT (2 TYP.) ─ WATER RELEASE PLUG 10" WATER-FILLED BARRICADE

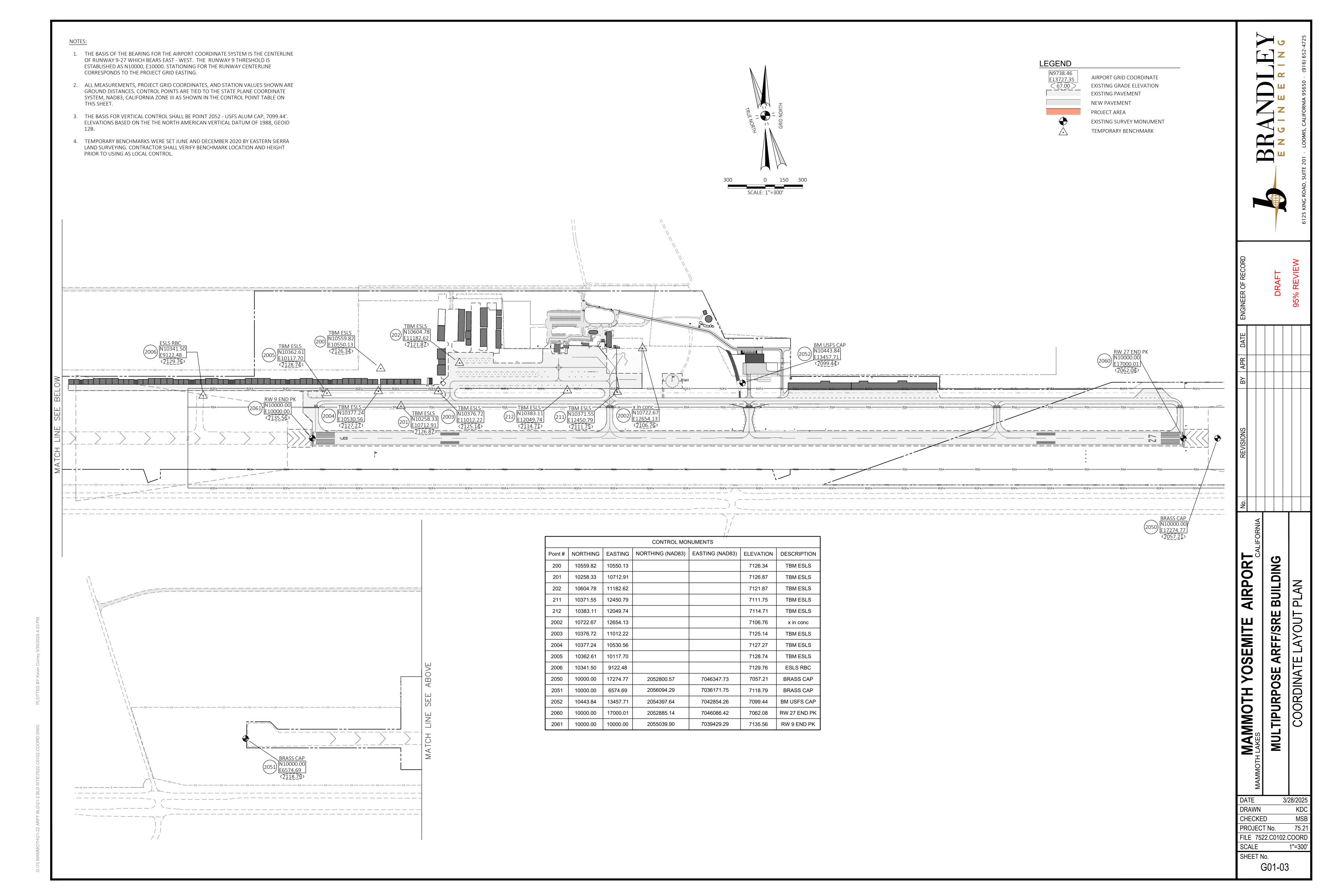
BARRICADE NOTES:

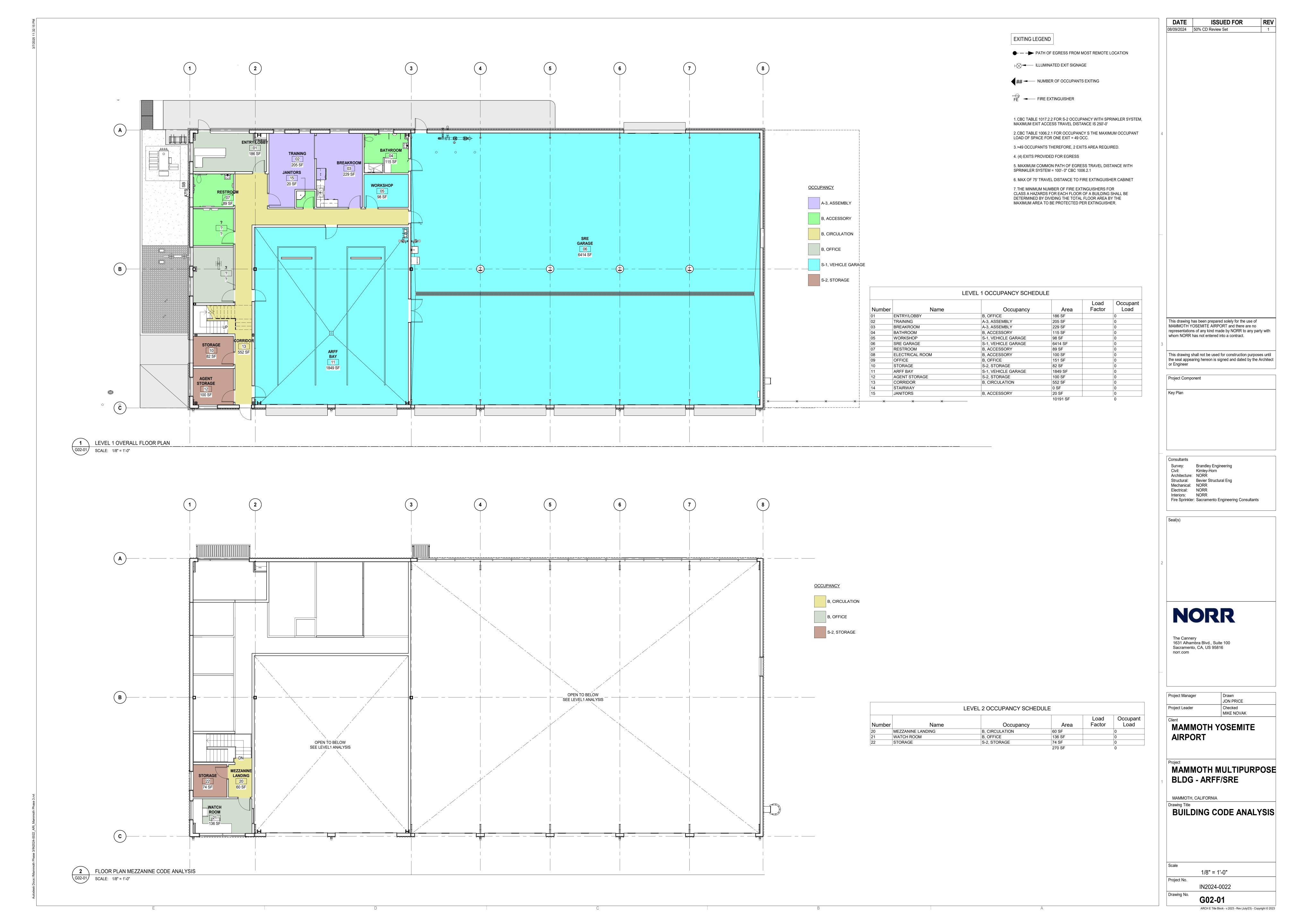
- 1. AIRPORT OPERATIONS SHALL FURNISH AND CONTRACTOR PLACE PLASTIC LOW PROFILE LIGHTED BARRICADES FOR WORK INVOLVING CLOSURE OF THE RUNWAY AND TAXIWAYS. CONTRACTOR SHALL MAINTAIN BARRICADES WHILE ON SITE FOR ALL WORK PHASES. AIRPORT SHALL FURNISH A MAXIMUM OF 50 LOW PROFILE BARRICADES, CONTRACTOR SHALL PROVIDE ADDITIONAL LOW PROFILE BARRICADES AS NEEDED.
- 2. EACH BARRICADE SHALL HAVE 2 SOLAR-POWERED LIGHTS WITH RED LENSES EACH CONTROLLED BY PHOTOCELLS SUCH THAT THEY ARE ON CONTINUOUS AT NIGHT AND OFF BY DAY.
- 3. BARRICADES SHALL BE SECURED IF NECESSARY TO RESIST MOVEMENT FROM JET OR PROP BLAST. CONTRACTOR WILL FILL LOW PROFILE BARRICADES WITH WATER AS DIRECTED BY RPR AND AIRPORT OPERATIONS.
- 4. LOCATE BARRICADES AS SHOWN ON THE PLAN AND DIRECTED BY RESIDENT PROJECT REPRESENTATIVE. SPACING BETWEEN BARRICADES SHALL NOT EXCEED 4 FEET. SEE THIS SHEETS FOR BARRICADE LOCATIONS.
- 5. AT THE COMPLETION OF THE CONSTRUCTION, SITE CONTRACTOR SHALL DRAIN BARRICADES OF WATER AND DELIVER TO THE

AIRPOR BUILDING SEMITE S F/ 0 S S 0 MULTIPURP AMMO

> 3/28/2025 DRAWN KDC CHECKED MSB PROJECT No. FILE 7522.G01-02.CSPF 1"=300

SHEET No. G01-02





Y = VEB

SECTION 5.507 ENVIRONMENTAL COMFORT 5.504.4.5 Composite wood products. Hardwood plywood, particlebeard and medium density liberboard. 5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of composite wood products used on the interior or exterior of the buildings shall meet the requirements for 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class. 5,508.2,6 Evacuation. The system shall be evacuated after pressure testing and prior to charging. the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5,504.4.3, unless more formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 OCR 93120 et STC) values determined in accordance with ASTM E 95 and ASTM E 413, or Ouldoor-Indoor Sound Transmission. stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty seq.) Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Class (OFC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in 5,508,2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat. Nonflat Section 5.507 A.1 or 5.507 A.2 or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or 5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior 5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply. requested by the enforcing agency. Documentation shall include at least one of the following: noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking 5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMR Limits for 5.508.2.6.3 Third vacuum, Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours Chain of custody certifications. ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic Product labeled and Invoiced as meeting the Composite Wood Products regulation (see Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all with a maximum drift of 100 microns over a 24-hour period. compounds and dzone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of CCR, Title 17, Section 93120, et seq.). subsections apply only to new construction. Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product Engineered Wood Association, the Australian AS/NZS 2269 of European 636 3S-5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to limits of Regulation 8 Rule 49 the noise source making up the building or addition envelope or attered envelope shall meet a composite STC CHAPTER 7 Other methods acceptable to the enforcing agency. rating of at least 50 or a composite OFTC rating of no less than 40, with exterior windows of a minimum STC of 40 of Offic of 30 in the following locations: INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL 1 Within the 65 CNEL noise contour of an airport. 702 QUALIFICATIONS COATINGS TABLE 5.504.4.5 - FORMALDEHYDE LIMITS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or GRAMS OF YOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION 1. Last or CNEL for military airports shall be determined by the facility Air Installation Compatible. certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. CURRENT VOC LIMIT CURRENT LIMIT Examples of acceptable HVAC training and certification programs include but are not limited to the following: 2. Lo or CNEL for other airports and heliports for which a land use plan has not been developed FLAT COATINGS HARDWOOD PLYWOOD VENEER CORE 0.05 shall be determined by the local general plan noise element. State certified apprenticeship programs. NONFLAT COATINGS 100 HARDWOOD PLYWOOD COMPOSITE CORE 0.05 Public utility training programs. Within the 65 CNEL or Liv hoise contour of a freeway or expressway, railroad, industrial source or 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. fixed-guideway source as determined by the Noise Element of the General Plan." NONFLAT HIGH GLOSS COATINGS 150 0.09 PARTICLE BOARD Programs sponsored by manufacturing organizations. 5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a Other programs acceptable to the enforcing agency. SPECIALTY COATINGS MEDIUM DENSITY FIBERBOARD 0.11 noise level of 65 dB L_{io} - 1-hr during any hour of operation shall have building, addition or alteration 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the exterior wall and roof-pailing assemblies exposed to the noise source meeting a composite STC rating of ALUMINUM ROOF COATINGS 400 THIN MEDIUM DENSITY FIBERBOARDS esponsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or at least 45 (or OFC 35), with exterior windows of a minimum STC of 40 (or OFC 30). 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR BASEMENT SPECIALTY COATINGS 400 other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1383. FOR 5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120, 12 BITUMINOUS ROOF COATINGS 50 other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 516 INCHES (6 MM). considered by the enforcing agency when evaluating the qualifications of a special inspector envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does BITUMINOUS ROOF PRIMERS 350 not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation. Certification by a national or regional green building program or standard publisher: BOND BREAKERS 350 Certification by a statewide energy consulting or verification organization, such as HERS raters, building 5,507.4.2.1 Site Features, Extenor features such as sound walls or earth berms may be utilized as 5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area CONCRETE CURING COMPOUNDS 350 performance contractors, and home energy auditors. receiving resilient flooring shall meet the requirements of the California Department of Public Health "Standard appropriate to the building, addition or afteration project to mitigate sound migration to the interior. Successful completion of a third party apprentice training program in the appropriate trade. Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using CONCRETE/MASONRY SEALERS 100 Other programs acceptable to the enforcing agency. Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying intenor soundlevels shall be prepared by personnel approved by the architect or engineer of record. DRIVEWAY SEALERS 50 See California Department of Public Health's websile for certification programs and testing tabs. 5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating terrant spaces and terrant DRY FOG COATINGS 150 Special inspectors shall be independent entities with no financial interest in the materials or the https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material spaces and public places shall have an STC of at least 40. FAUX FINISHING COATINGS 350 project they are inspecting for compliance with this code. . HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate Note: Examples of assemblies and their various STC ratings may be found at the California Office of FIRE RESISTIVE COATINGS 350 homes in California according to the Home Energy Rating System (HERS). 5,504.4.6.1 Verification of compliance. Documentation shall be provided venifying that resilient flooring Noise Control: www.toolbase.org/PDF/CaseStudies/sto_loc_ralings.pdf materials meet the pollutant emission limits. FLOOR COATINGS 100 [BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent SECTION 5.508 OUTDOOR AIR QUALITY shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate. 5,508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC refrigeration and fire suppression FORM-RELEASE COMPOUNDS 250 compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing equipment shall comply with Sections 5.508.1.1 and 5.508.1.2. Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers. certification from a recognized state, national or international association, as determined by the focal agency. The 5,508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not "Version 1.2. January 1.2, January 2017 (Emission testing method for California Specification 01350) HIGH-TEMPERATURE COATINGS 420 area of certification shall be closely related to the primary job function, as determined by the local agency. See California Department of Public Health's website for pertification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODG/EHLB/IAQ/Pages/VOC.aspx#material INDUSTRIAL MAINTENANCE COATINGS 250 Note: Special inspectors shall be independent entities with no financial interest in the materials or the 5.508.1.2 Halons. Install HVAC, refrigeration and fine suppression equipment that do not contain Halons. project they are inspecting for compliance with this code. 5.504.4.7.1 Verification of compliance. LOW SOLIDS COATINGS 120 Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission. 5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the 703 VERIFICATIONS revisions of this section when installed in retail food stores 5,000 square feet or more conditioned area, and that MAGNESITE CEMENT COATINGS 450 utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units br 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, MASTIC TEXTURE COATINGS 100 5,504.4.8 Acoustical ceiling and wall panels. condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing (high-GWP) refrigerants with a GWP of 150 or greater, New refrigeration systems include both new facilities and the METALLIC PIGMENTED COATINGS 500 acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," replacement of existing refrigeration systems in existing facilities. special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate Version 1.2, January 2017 (Emission testing method for California Specification 01350). MULTICOLOR COATINGS 250 section or identified applicable checklist See California Department of Public Health's website for certification programs and testing labs. Exception: Refingeration systems containing low-global warming potential (low-GWP) refingerant with a GWP value less than 150 are not subject to this section. Low-GWP refingerants are nonozone-depleting refingerants PRETREATMENT WASH PRIMERS 420 5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that accurational. that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants. PRIMERS, SEALERS & UNDERCOATERS 100 finish materials meet the pollutant emission limits. 5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be REACTIVE PENETRATING SEALERS 350 5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air accessible for leak protection and repairs. Ploing runs using threaded pipe, occour tutting with an outside filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in RECYCLED COATINGS 250 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of refrigerant systems except as noted below the same value shall be included in the operation and maintenance manual. ROOF COATINGS 50 5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack. RUST PREVENTATIVE COATINGS 250 Exceptions: Existing mechanical equipment. 5,508.2.1.2 Copper pipe. Copper lubing with an OD less than 1/4 inch may be used in systems with a SHELLACS 5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer incideting the MERV. refrigerant charge of 5 pounds or less. 730 5,508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely damped to a ngid base to 5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking. keep vibration levels below 8 mils. OFAQUE 550 prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as 5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure. already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, SPECIALTY PRIMERS. SEALERS & UNDERCOATERS 100 controls, valve pilot lines and oil. county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post 250 signage to inform building occupants of the prohibitions. Exception: Single-flared lubing connections may be used with a multiring seal coaled with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's STONE CONSOLIDANTS 450 SECTION 5.505 INDOOR MOISTURE CONTROL SWIMMING POOL COATINGS 340 5.508.2.1.4 Elbows. Short radius é pows are only permitted where space limitations prohibit use of 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code. TRAFFIC MARKING COATINGS 100 CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see TUB & TILE REFINISH COATINGS 420 5,508,2,2 Valves, Valves Valves and fittings shall comply with the California Mechanical Code and as WATERPROOFING MEMBRANES 250 SECTION 5.506 INDOOR AIR QUALITY 5.508,2.2.1 Preasure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall WOOD COATINGS 275 5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum be installed between the outlet of the vessel and the inlet of the pressure relief valve. requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local WOOD PRESERVATIVES 350 code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8 5,508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall ZINC-RICH PRIMERS be installed in the space between the rupture disc and the relief valve inlet to indicate a disc 340 5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control rupture or discharge of the relief valve. ventilation, GOz sensors and ventilation controls shall be specified and installed in accordance with the requirements 1, GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS of the California Energy Code, Section 120(c)(4) 5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS 5.506.3 Carbon dioxide (CO2) monitoring in classrooms. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. (DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be 5,508.2.2.2,1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS equipped with a carbon dioxide monitor or sensor that meets the following requirements: AVAILABLE FROM THE AIR RESOURCES BOARD The monitor or sensor, shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable 5,508.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. 5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or 5.508.2.2.2.1 Chain tethers. Chain tethers to fit ovrithe stem are required for valves the enforcing agency. Documentation may include, but is not limited to the following: sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the Manufacturer's product specification carbon dioxide readings shall be available to and requiany monitored by facility personnel. 2. Field verification of on-site product containers A monitor shall provide notification though a visual indicator on the monitor when the sarbon dioxide levels in the Exception: Valves with seal caps that are not removed from the valve during stem classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility 5,504,4.4 Carpet Systems. personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have All carpet installed in the building interior shall meet the requirements of the California Department of Public exceeded 1,100ppm. 5.508 2.3 Refrigerated service cases, Refrigerated service cases holding lood products containing vinegar and Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a salt shall have evaporator coils of corrosion-resistant material, such as staniess steel, or be coated to prevent Sources Using Environmental Chambers. Version 1.2, January 2017 (Emission testing method for California record of previous carbon digxide measurements of not less than 30 days duration corrosion from these substances The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide. levels with a range of 400ppm to 2000ppm or greater. 5,508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to See California Department of Public Health's website for certification programs and testing tabs. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon ntips://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material maximize energy efficiency. dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years. 5,508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted 5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building intengr shall meet the with a device the indicates the level of refrigerant in the receiver: requirements of the California Department of Public Health "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental 5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and Chambers, Version 1,2, January 2017 (Emission testing method for California Specifications 5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and See California Department of Public Health's website for certification programs and testing labs. appropriate tracer gas to bring system pressure up to 300 paig minimum. https://www.cdph.ca.gov/Programs/CCDPHP/DEDDC/EHLB/IAQ/Pages/VOC.aspx#material 5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and refest for pressure using the same 5,504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1. 5,508,2,5,3 Allowable pressure change. The system shall stand, unalitered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge. DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTERDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPULANCE WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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ISSUED FOR

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component

Key Pla

Consultants
Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng

Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

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Project Manager

Project Leader

JON PRICE

ct Leader Checked

MIKE NOVA

MAMMOTH YOSEMITE

Project

MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE

MAMMOTH, CALIFORNIA

CALIFORNIA GREEN
BUILDING STANDARDS
CODE CHECKLIST

ale

et No. IN2024-0022

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NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

5.409.3.2 Verification of compliance. Calculations to demonstrate compliance. Type III EPDs for products

shall be provided on the construction documents. Updated EPDs for products used in construction shall be

provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing

at completion of construction to demonstrate substantial conformance, inspection shall be performed by the

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are

paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling

Code 42649.82 (a)(2)(A) et seq, shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18. Parl 3.

Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet

and over, building commissioning shall be included in the design and construction processes of the building project to

Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and

-bocupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections

verify that the building systems and components meet the owner's or owner representative's project requirements.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating,

ventifiation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water

2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within

Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area or room which does not

Functional performance testing for healing, ventilation, air conditioning systems and lighting controls.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and

Project program, including faculty functions and hours of operation, and need for after hours.

5.410.2.2 Basis of Design (BOD). [N] A written exptanation of how the design of the building systems meets

the OPR shall be completed at the design phase of the building project. The Basis of Design document shall

5.410,2,3 Commissioning plan, [N] Prior to permit issuance a commissioning plan shall be completed to

document how the project will be commissioned. The commissioning plan shall include the following:

Systems to be commissioned. Plans to test systems and components shall include:

5. Commissioning process activities, schedules and responsibilities. Plans for the completion of

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct.

installation and operation of each component, system and system-to-system interface in accordance with the

approved plans and specifications. Functional performance testing reports shall contain information addressing

each of the building components tested, the testing methods utilized, and include any readings and adjustments

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be

Basic operations and maintenance, including general site operating procedures, basic

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance

staff for each equipment type and/or system shall be developed and documented in the commissioning

System/equipment overview (what it is, what it does and with what other systems and/or.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the

completed within the systems manual and delivered to the building owner or representative. The

Site information, including facility description, history and current requirements

troubleshooting, recommended maintenance requirements, site events log-

A copy of verifications required by the enforcing agency or this code.

Review and demonstration of servicing/preventive maintenance.

including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR).

Equipment and systems to be tested, including the extent of tests.

Building occupant and operation and maintenance (O&M) personnel expectations.

requirements of the building appropriate to its phase shall be documented before the design phase of the

Tenant improvements less than 10,000 square test as described in Section 303.1.1.

heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources

resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum)

design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

ordinance, if more restrictive,

floor area.

5.410.2 through 5.410.2.6 shall apply.

Commissioning requirements shall include:

Commissioning plan.

Functional performance testing

Unconditioned warehouses of any size.

provide heating and/or air conditioning.

Informational Notes:

Owner's or Owner representative's project requirements:

Commissioning measures shown in the construction documents.

must be performed in compliance with the California Energy Code.

a. An explanation of the original design intent

 d. Conditions under which the test shall be performed. Measurable criteria for acceptable performance.

Site equipment inventory and maintenance notes.

Other resources and documentation, if applicable.

Review of the information in the Systems Manual.

Review of the record drawings on the system/equipment.

project begins. This documentation shall include the following:

Environmental and sustainability goals.

3 Indoor environmental quality requirements.

Building sustainable goals.

 Renewable energy systems. Landscape imgation systems.

Functions to be tested.

4 Commissioning learn information

commissioning shall be included.

Title 8, Section 5142, and other related regulations.

systems manual shall include the following.

Site contact information.

Major systems.

report and shall include the following.

equipment it interfaces).

Water reuse system.

cover the following systems:

Recycling Access Act of 1991 (Act).

agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and

required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record

5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 of EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

 Software for calculating whole building life cycle assessment is available for free at Athena Sustainable. Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Flanetary (www.oneclicklca.com/planetary) Paid versions Include and are not limited to Sphera GaBi Solutions (dabi sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.aulodesk.com)

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems," may be consulted for the

3. In addition to the required documentation specified in Section 5.409,2,3. Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited. to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) (GWP _{allowed})	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO _Z e/MT
Hollow structural sections	3.00	MT CO ₂ e/MT
Steel plate	2,61	MT CO2e/MT
Concrete reinforcing steel	1.56	MT COşe/MT
Flat glass	2,50	kg CO ₂ e/MT
Light-density mineral wool board insulation	5.83	kg CO ₂ e/MT
Heavy-density mineral wool board insulation	14.28	kg CO ₂ e/MT
	Concrete, Ready-Mixed ² , ³	
CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT
up to 2499 psi	450	kg CO ₂ e/m ³
2500-3499 psi	489	kg CO ₂ e/m ³
3500-4499 psi	566	kg CO ₂ e/m ³

6500 psi and greater	799	kg CO ₂ e/m ³
Conc	rete, Lightweight Ready-Mixed ²	
CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT
up to 2499 psi	875	kg CO₂e/m³
2500-3499 psi	956	kg CO ₂ e/m ³
3500-4499 psi	1039	kg CO ₂ e/m ³

kg CO₂e/m³

kg CO_se/m³

The GWP values of the products listed in Table 5 409.3 are based on 175 percent of Buy Clean California Act. (BCCA) GWP values, except for concrete products which are not included in the BCCA. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional banchmark values are used for the GWP allowed, except for High Early Strength. 3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.

5,409,3.1 Products shall not exceed the maximum GWP value specified in Table 5,409,3,

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5,409.3.1

the project, in m3

4500-5499 psi

5500-6499 psi

each concrete mix installed in the project GWP_n = the GWP for concrete mix _n per concrete

mix EPD, in kg CO2e/m3

GWP_{alcoard} = the GWP potential allowed for concrete mix a per Table 5.409.3 v_{ii} = trie volume of concrete mix a installed in

representative. 5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120,8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be

Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or apace is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National. Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing. signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M Instructions shall be consistent with OSHA requirements in CCR. Title 8. Section 5142, and other related

5,410.4,5,1 Inspections and reports. Include a copy of all inspection verifications and reports required

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, imitating, and/or harmful to the comfort and well-being of a building's installers, occupants and heighbors.

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

adjustments have been made.

the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

density libertoard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, priented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120 1(a).

Note: See CCR, Title 17, Section 93120.1.

24-hour period with a 10 dB adjustment added to sound levels accuming during nighttime hours (10p.m. to 7 a.m.).

ELECTRIC VEHICLE (EV), An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code. off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, filts, transports, golf carts, airline ground

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through fraffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference

its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.: the AR4 GWP values are found in column *100 yr* of Table 2.14.

hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a SWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

150, and (B) is not an ezone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82 sec.82.3 (as amended March 10, 2009).

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to undreths of a gram (g O²/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredthe of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square Inch, guage

to remote compressor units or condensing units.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction.

with a radius 1.0 times the pipe diameter SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain pxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

included for testing and adjusting shall include at a minimum, as applicable to the project:

Renewable energy systems Landscape irrigation systems

DIVISION 5.5 ENVIRONMENTAL QUALITY

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decipels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting

BTU/HOUR, British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Pahrenheil per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Blu,

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn). except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium

sound power, sound intensity) with respect to a reference quantity.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure,

support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring

SLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995), or

HIGH-GWP REFRIGERANT, A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction.

OW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLE STANDARDS (CALGREEN) CODE. DUE TO THE VA

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150, Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances,

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return alr filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52,2-1999, or an average efficiency of 30% based on ASHRAE 52 1-1992. Replace all filters immediately provide occupancy, or if the building is occupied during alteration, at the conclusion of construction

aerosol products as specified in subsection 2, below.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic. sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealients, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive primers, sealant, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VDC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing, with Section 94507.

Less Water and Less Exempt Compounds in Grams per Liter	
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
NDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	.50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
VC.WELDING	510
PVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
LASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
BERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC. CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

Less Water and Less Exempt Compounds in Grams	s per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

MAMMOTH, CALIFORNIA

CALIFORNIA GREEN **BUILDING STANDARDS** CODE CHECKLIST

BLDG - ARFF/SRE

IN2024-0022

G02-03

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Brandley Engineering

Fire Sprinkler: Sacramento Engineering Consultants

Kimley-Horn

Structural: Bevier Structural Eng

1631 Alhambra Blvd., Suite 100

MAMMOTH YOSEMITE

MAMMOTH MULTIPURPOSE

JON PRICE

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Architecture: NORR

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BALANCE. To proportion flows within the distribution system, including sub-mains, branches and ferminals. according to design quantities. 5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each BCFC EVSE shall be 5.106,8.1 Facing-Backlight 5,303,3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbino fixtures (water closets and permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, urinals) and fittings (faucets and showerheads) shall comply with the following: by five and reduce proportionally the required electrical load capacity to the service panel or subpanel. process, including verifying and documenting that building systems and components are planned, designed, installed, and shall comply with the backlight rating specified in Table 5.106 8 based on the lighting zone and distance to tested, operated and maintained to meet the owner's project requirements. the nearest point of that property line. 5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per 5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense. EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections Exception: Corners. If two property lines for two segments of the same property line! have equidistant point Specification for Tank-Type toilets. each EV capable space is accumulatively supplied to the EVSE 3500-3505) largets carbon emissions associated with the production of structural steet (hot-rulled sections, hollow to the luminaire, then the luminaire may be priented so that the intersection of the (wo lines (the comer) is structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum directly behine (he luminaire. The luminaire shall still use the distance to the nearest points(s) on the property Note: The effective flush volume of dual flush tokets is defined as the composite, average flush volume of 5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in lines to determine the required backlight rating. two reduced flushes and one full flush. EVCS installed in accordance with Section 5.105,5,6,2, When ALMS is Installed, the required electrical consultation with the California Air Resources Board (CARB). load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere 5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930. within ZMH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in 0.125 gallons per flush. Table 5.106.5 based on the lighting zone and distance to the nearest point on the nearest property line within ORGANIC WASTE. Food waste, green waste, landscape and pruning wate, nonhazardous wood waste, and food 5.106.5.6.3 EVCS alternative compliance, in lieu of compliance with Section 5.106.5.6.2, EVCS shall be 5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other unnais shall solled paper waste that is mixed in with food waste. provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or not exceed 0.5 gallions per flush Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle 1.See also California Building Cade, Chapter 12, Section 1205 5 for college campus lighting requirements for indicated in Table 5.166.5.6.3, based on the total number of actual parking spaces in each parking facility. assessment 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 2 Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Meterial) for IES TM-15-11 Table gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA TEST. A procedure to determine quantitative performance of a system or equipment A-1. California Energy Code Tables 130.2-A and 130.2-B. TABLE 5.106.5.6.3 WaterSense Specification for Showerheads. Refer to the California Building Code for requirements for additions and alterations. TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a 5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. IUMBER OF PARKING SPACES MINIMUM TOTAL POWER (KVA) showerhead. The combined flow rate of all the showerheads and/or other shower outlets controlled by a 5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will IN A PARKING FACILITY REQUIRED FOR EVCS single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface allow only one shower outlet to be in operation at a time. water include, but are not limited to, the following FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be Note: A hand-held shower shall be considered a showerhead. attributed to a single manufacturer and manufacturing facility. 0.9 Water collection and disposal systems NDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the 10-25 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 typical manufacturing impacts for a range of products within the same product category for a group of 26-50 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA 14 Water retention cardens Other water measures which keep surface water away from buildings and aid in groundwater recharge. WaterSense Specification for Showerheads 51-75 20 Exception: Additions and alterations not altering the drainage path PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product 5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one design and manufacturer across multiple facilities. 76-100 27 showerhead, the combined flow rate of all the showerheads and/or other shower pullets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to 5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.108.12.2, 101-150 40 allow only one shower outlet to be in operation at a time. SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT and 5.106.12.3. Percentages shown shall be measured at noon on the summer solution. Landscape irrigation 151-200 60 Note: A hand-held shower shall be considered a showerhead. necessary to establish and maintain tree health shall comply with Section 5.304.6. 5,407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local Total required KVA = P x .05 x 6.6 5.303.3.4 Faucets and fountains. 5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed 201 AND OVER ordinance, whichever is more stringent. Where P = Parking spaces in facility 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not to provide shade over 50 percent of the parking area within 15 years. more, than 0.5 gallons per minute at 60 psi 5,407,2 MOISTURE CONTROL, Employ moisture control measures by the following methods Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing 5.106,5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 materials that comply with Table A5.105.11 Z.2 in Appendix A5 shall be permitted in whole or in part in 5.407.2.1 Sprinklers. Design and maintain langscape impation systems to prevent spray on structures. facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, lieu of shade tree planting. spaces required to be provided without EVSE shall not be required. ut not to exceed 2.2 gaillons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gaillons 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven 5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to rain to prevent water intrusion into buildings as follows: 5.106.5.6.4.1 Alterations of and additions to parking facilities, EVCS shall be provided in accordance with provide shade of 20% of the landscape area within 15 years. 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope 5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water gallons per minute/20 [rim space (inches) at 60 psi] Exceptions: Playfields for organized sport activity are not included in the total area calculation. of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: area or when area containing parking spaces is added to a parking facility. The number of required EVCS 5,303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0,20 gallons per cycle 5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to shall be based on the lotal number of existing and new parking spaces in the parking facility. An installed awning at least 4 feet in depth. provide shade over 20 percent of the hardscape area within 15 years 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a The door is protected by a roof overhang at least 4 feet in dooth. 5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided maximum flow rate of not more than 0,20 gallons per minute/20 [rim space (inches) at 50 psi]. The door is recessed at least 4 feet. in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing Other methods which provide equivalent protection. 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu. Note: Where complying faucets are unavailable, aeretors or other means may be used to achieve 5.407.2.2.2 Flashing, install flashings integrated with a drainage plane. Designated and marked play areas of organized sport activity are not included in the total area calculation. 5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to 5.303.3.4.6 Pre-rinse spray value SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 DIVISION 5.2 ENERGY EFFICIENCY VCS shall be provided in accordance with California Building Code Chapter 11B (d)(7), and shall be equipped with an integral automatic shutoff. 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or Exception: Projects in which improvements in parking areas consist only of accessibility improvements are FOR REFERENCE ONLY: The following table and code section have been reprinted from the California 5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency meet a local construction and demolition waste management ordinance, whichever is more stringent. not required to comply with Section 5,106.5 6.5. Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section standards in this code, the California Energy Commission will continue to adopt mandatory building standards. 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and 5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply demolition waste management ordinance, submit a construction waste management plan that DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION Identifies the construction and demolition waste materials to be diverted from disposal by efficient. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10. usage, recycling reuse on the project or salvage for future use or sale Section 10-114 of the California Administrative Code; and Determines if construction and demolition waste malerials will be sorted on-site (source-separated) or 5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8). bulk mixed (single stream) STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY and in wastewater conveyance. 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Identifies diversion facilities where construction and demoiltion waste material collected will be taken VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 Specifies that the amount of construction and demolition waste materials diverted shall be calculated 4. Allowable BUG ratings not exceeding those shown in Table 5,106.6, [N] or Comply with a local ordinance by weight or volume, but not by both. SECTION 5.302 DEFINITIONS lawfully enacted pursuant to Section 101.7, whichever is more stringent. MAXIMUM FLOW RATE (gpm) 5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference) [spray force in ounce force (ozf)] 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable Exceptions: [N] documentation that the percentage of construction and demolition waste material diverted from the landfill EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to Product Class 1 (≤ 5.0 ozf) complies with this section. reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code. Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) 1.20 the amount of water that needs to be applied to the landscape. Note: The owner or contractor shall make the determination if the construction and demplition waste material Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. Product Class 3 (> 8.0 ozf) 1.28 will be diverted by a waste management company. FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8. Alternate materials, designs and methods of construction. not including exterior areas such as sfairs, covered walkways, patios and decks. Exceptions to Sections 5.408.1.1 and 5.408.1,2: Luminaires with less than 6,200 Initial luminaire lumens. 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The Excavated soil and land-cleaning debris. volume or cycle duration can be fixed or adjustable. TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT. 5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no facilities capable of compliance with this item do not exist UPLIGHT AND GLARE (BUG) RATINGS :: GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy Note: This code section does not affect local jurisdiction authority to prohibit or require disposer bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or LIGHTING LIGHTING LIGHTING ALLOWABLE RATING ZONE operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom ZONE LZ1 ZONE LZ2 ZONE LZ3 ZONE LZ4 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does washbasins, clothes washing machines and laundry lubs, but does not include waste water from kitchen sinks or 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California not exceed two pounds per square fool of building area may be deemed to meet the 65% minimum requirement Building Standards Commission as specified in Section 103, the provisions of Section 5,303,3 and 5,303,4 shall apply MAXIMUM ALLOWABLE as approved by the enforcing agency to new fixtures in additions or areas of alteration to the building. BACKLIGHT RATING MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape 5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed Luminaire greater than 2 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and mounting heights (MH) from No Limit No Limit in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 necessary and shall be accessible during construction for examination by the enforcing agency. climatological parameters. property line of the California Plumbing Code and in Chapter 6 of this code MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance Luminaire back hemisphere is N/A (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and 1-2 MH from property line SECTION 5.304 OUTDOOR WATER USE 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least. 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply Luminaire back hemisphere is located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commissionas effective as the MWELO with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste 0.5-1 MH from property line Efficient Landscape Ordinance (MWELO), whichever is more stringent. POTABLE WATER. Water that is drinkable and meets like U.S. Environmental Protection Agency (EPA) Drinking Luminairé back hemisphere is 2. Mixed construction and demolition debns processors can be located at the California Department of Water Standards. See definition in the California Plumbing Code, Part 5. less than 0.5 MH from property Resources Recycling and Recovery (CalRecycle). The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, POTABLE WATER, [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the Title 23, Chapter 2.7, Division 2. 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or lenant space that meet the scoping U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority MAXIMUM ALLOWABLE MWELO and supporting documents, including a water budget calculator, are available at: provisions in Section 301,3 for nonresidential additions and alterations, shall require verification that Universal Waste UPLIGHT RATING (U) https://www.water.ca.gov/. items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited. Iniversal Waste materials are disposed of property and are diverted from landfills. A list of prohibited Universal Waste RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a For area lighting N/A UO UO UO MO 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, naterials shall be included in the construction documents. controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of For all other outdoor treated to remove waste matter attaining a quality that is suitable to use the water again. Water Resources Model Water Efficient Landscape Ordinance (MWELO) communicing with Section 490 of Chapter N/A U2 Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/ lighting including decorative Division 2. Title 23, California Code of Regulations, except that the evapolitanspiration adjustment factor (ETAF) SUBMETER, [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental lummaires shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section MAXIMUM ALLOWABLE vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such 1954,202 (g) and Water code Section 517 for additional details.) Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the GLARE RATING (G) material may be slockpiled on site until the storage site is developed. prescriptive measures contained in Appendix D of the MWELO WATER BUDGET. Is the estimated total landscape impation water use which shall not exceed the maximum applied. MAXIMUM ALLOWABLE Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. G2 water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape GLARE RATING (G) 5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape. area equal to or greater than 500 square feet. MAXIMUM ALLOWABLE N/A GLARE RATING (G) 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate SECTION 5.303 INDOOR WATER USE 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural landscape area equal to or greater than 1,200 square feet. 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections MAXIMUM ALLOWABLE Commissioner and follow its direction for recycling or disposal of the material... GO 2. For a map of know pest end/or disease quarantine zones, consult with the California Department of GLARE RATING (G) Food and Agriculture. (www.cdfa.ca.gov) DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows MAXIMUM ALLOWABLE 90 EFFICIENCY GLARE RATING (G) SECTION 5.409 LIFE CYCLE ASSESSMENT 1. For each individual leased, rented or other tenant space within the building projected to consume 5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners SECTION 5.401 GENERAL . IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California combined floor area of 100,000 square feel or greater shall comply with either Section 5.409.2 or Section 5.409.3 restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. 5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource Energy Code and Chapter 10 of the Callifornia Administrative Gode. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, comply with eitner Section 5, 105.2, 5,409.2, or 5,409.3. Addition(s) to existing building(s) where the total floor area 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the 2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, considered to be 5 feet beyond the actual property line for purpose of determining compliance with this installation of products with lower GHG emissions and building commissioning or testing and adjusting Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). section. For property lines that abut public roadways and public transit corridors, the property line may be Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). SECTION 5.402 DEFINITIONS considered to be the centerline of the public roadway of public transit corridor for the purpose of determining Steam and hot water boilers with energy input more than 500,000 Bruth (147 kW). 5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) compliance with this section. [DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or 5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the 3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust within a new building or within an addition that is projected to consume more than 1,000 gal/day. combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or reduced ratings. Decorative luminaries located in these areas shall meet U-value limits for "all other outdoor 5.409.5. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000. square feet or greater shall comply with either Section 5.105,2, Section 5.409,2, or Section 5.409,3

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Key Plan

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Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng

Mechanical: NORR
Electrical: NORR
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MAMMOTH, CALIFORNIA

Drawing Title

CALIFORNIA GREEN

BUILDING STANDARDS

CODE CHECKLIST

Scale

Project No. IN2024-0022

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CALIFORNIA GREEN

CODE CHECKLIST

BUILDING STANDARDS

MAMMOTH, CALIFORNIA

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

SECTION 5.106 SITE DEVELOPMENT TABLE 5.106.5.3.1 CHAPTER 3 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a NUMBER OF EVCS (EV **GREEN BUILDING** larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction TOTAL NUMBER OF ACTUAL NUMBER OF REQUIRED EV CAPABLE SPACES 5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construction shall comply activities through one or more of the following measures: SECTION 301 GENERAL PROVIDED WITH CAPABLE SPACES PARKING SPACES with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for EVSE)A7 warehouses, grocery stores and retail stores, office buildings, and manufacturing fed libes with planned off-street 5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in cading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-outy EVSE. 0:9 the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, 5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by 10-25 0 1. On a case-by-case basis where the local enforcing agency has determined compliance with this section but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. implementing an effective combination of erosion and sediment control and good housekeeping BMPs is not feasible based upon one of the following conditions: 26-50 2 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions a. Where there is no local utility power supply. 1. Soil loss BMPs that should be considered for implementation as appropriate for each project include. 51-75 13 3 of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square b. Where the local utility is unable to supply adequate power. but are not limited to, the following: feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within Where there is evidence suitable to the local enforcing agency substantiating that additional. Scheduling construction activity during dry weather, when possible. 76-100 17 4 local utility infrastructure design requirements, directly related to the implementation the authority of California Building Standards Commission). Code sections relevant to additions and Preservation of natural features, vegetation, soil, and buffers around surface waters of Section 5.106,5.3, may adversely impact the construction cost of the project. alterations shall only apply to the portions of the building being added or altered within the acope of the 101-150 25 6 Drainage swales or lined ditches to control stormwater flow. Mulching or hydroseeding to stabilize disturbed soils. 151-200 35 9 When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Erosion control to protect slopes. A code section will be designated by a banner to indicate where the code section only applies to newly Protection of storm drain inlets (gravel bags or catch basin inserts). 20 percent of actual 25 percent of EV capable constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no 201 AND OVER Perimeter sediment control (perimeter silt fence, fiber rolls). parking spaces* 5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office Sediment trap or sediment basin to retain sediment on site. buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N] . Calculation for spaces shall be rounded up to the nearest whole number Stabilized construction exits. 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: Wind erosion control. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or Other soil loss BMPs acceptable to the enforcing agency. total number of required EV capable spaces shown in column 2. busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges. 3 At least one Level 2 EVSE shall be provided. 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving time of construction in accordance with the California Electrical Code. Construction plans and specifications and wastes that should be considered for implementation as appropriate for each project include, but plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions. 5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric shall include, but are not limited to, the following are not limited to, the following. types of commercial real property affected, effective dates, circumstances necessitating vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS Dewatering activities. 1. The transformer, main service equipment and subpanels shall meet the minimum power requirement replacement of noncompliant plumbing fixtures, and duties and responsibilities for required by Table 5 106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section. Material handling and waste management. in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE. 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided Building materials stockpile management. Management of washout areas (concrete, paints, stucco, etc.). 301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and 2. The construction documents shall indicate one or more location(s) convenient to the planned Control of vehicle/equipment fueling to contractor's staging area. One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging alterations whenever a permit is required for work. Vehicle and equipment cleaning performed off site. the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or Spill prevention and control. supplied to the EV charger. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1 Other housekeeping BMPs acceptable to the enforcing agency. 301.5 HEALTH FACILITIES: (see GBSC) The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the Raceway(s) or busway(s) onginating at a main service panel or a subpanel(s) serving the area where 5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF SECTION 302 MIXED OCCUPANCY BUILDINGS potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity. LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or to the potential future location of the charging equipment for medium- and heavy-duty vehicles. 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale. 5,106,5.3,2.1 The installation of each DCFC EVSE shall be permitted to reduce the minimum shall comply with the specific green building measures applicable to each specific occupancy. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system. number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the load to the future location of the charging for medium- and heavy-duly ZEVs as shown in Table reduce proportionally the required electrical load capacity to the service panet or subpanel. larger common plan of development or sale must comply with the post-construction requirements detailed in the SECTION 303 PHASED PROJECTS applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges 5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or permitted to reduce the minimum number of required EV capable spaces without EVSE in Table TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER 303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements. the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N] only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff 5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacit ADDITIONAL 303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant. permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration specified in Section CAPACITY through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each NUMBER OF REQUIRED (KVA) Section 301.3 non-residential additions and alterations. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle BUILDING SIZE (SQ. FT.) BUILDING TYPE OFF-STREET FOR RACEWAY & practices and be approved by the enforcing agency. and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs. LOADING SPACES **BUSWAY AND** ABBREVIATION DEFINITIONS: Refer to the current applicable permits on the State Water Resources Control Board website at TRANSFORMER & 5.106.5.3.4 Accessible EVCS. Department of Housing and Community Development www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures When EVSE is Installed, accessible EVSC shall be provided in accordance with the California Building PANEL California Building Standards Commission should be given during the initial design process for appropriate integration into site development. Code, Chapter 11B, Section 11B-228.3. Division of the State Architect. Structural Safety 1 or 2 200 OSHPD Office of Statewide Health Planning and Development 10,000 to 90,000 5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Grocery 3 or Greater 400 specified in Section 103, comply with Section 5,106.4.1. For buildings within the authority of the Division of the State Vehicle Signs and Pavement Markings) or its successor(s). Architect pursuant to Section 105, comply with Section 5.106,4.2 Greater than 90,000 1 or Greater 400 Additions and Alterations 5.106.5.3.4 Accessible electric vehicle charging station (EVCS), When EVSE is installed, accessible 5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the 10,000 to 50,000 EVCS shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3. 1 or 2 200 applicable local ordinance, whichever is stricter CHAPTER 5 Manufacturing Facilities 10,000 to 50,000 3 or Greater 400 5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Callsans Traffic Operations Policy Directive 13-01 (Zero 5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated NONRESIDENTIAL MANDATORY MEASURES Greater than 50,000 400 t or Greater to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors Emission Vehicle Signs and Pavement Markings) or its successor(s). entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being 10,000 to 135,000 1 or 2 200 DIVISION 5.1 PLANNING AND DESIGN added, with a minimum of one two-bike capacity rack. Power altocation method shall include the following: Office Buildings Exception: Additions of alterations which add nine or less visitor vehicular packing spaces. 10,000 to 135,000 400 3 or Greater Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs. SECTION 5.101 GENERAL 2. At least one Level 2 EVSE shall be provided Greater than 135,000 1 or Greater 400 5.106.4.1.2 Long-term bicycle parking. For new buildings with terrant spaces that have 10 or more The provisions of this chapter gutline planning, design and development methods that include environmentally tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking 200 1 or 2 responsible site selection, building design, building siting and development to protect, restore and enhance the 5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation 10,000 to 135,000 spaces with a minimum of one bicycle parking facility. environmental quality of the site and respect the integrity of adjacent properties. nethod may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and Retail 3 or Greater 400 5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the lotal power in kVA required based on the SECTION 5.102 DEFINITIONS Greater than 135,000 400 1 or Greater provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a total number of actual parking spaces. 5.102.1 DEFINITIONS 200 The following terms are defined in Chapter 2 yand are included here for reference). 1 or 2 TABLE 5.106.5.3.6 20,000 to 256,000 5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not 400 3 or Greater Warehouse anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. TOTAL KVA REQUIRED IN ANY numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of TOTAL NUMBER OF ACTUAL COMBINATION OF EV CAPABLE, 3,4 80 degrees above nadir. This applies to all lateral angles around the luminaire. TOTAL KVA @ Greater than 256,000 5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall 1 or Greater LOW POWER LEVEL 2, LEVEL 2, 1, 2 PARKING SPACES 6.6 kVA be convenient from the street and shall meet one of the following: ELECTRIC VEHICLE (EV). [BSC-CG, HCD] An automotive-type vehicle for on-road use, such as passenger OR DCFC automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles and the like, primarily powered 5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code. . Covered, lockable enclosures with permanently anchored tacks for bicycles; 0.9 0 by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array or other 2 Lockable bicycle rooms with permanently anchored racks, or source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the 10-25 26.4 26.4 Lockable, permanently anchored bicycle lockers California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports. golf carts, airline ground support equipment, tractors, boats and the like, are not included. 26-50 52.8 52.8 Note: Additional information on recommended bicycle accommedations may be obtained from 1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible. ELECTRIC VEHICLE (EV) CAPABLE SPACE. [BSC-CG, 51-75 85.8 85.8 based upon one of the following conditions, and with concurrence by the Division of the State Architect (DSA). DSA-SS and HCD] A vehicle space with electrical panel space and load capacity to support a branch circuit and compliance with Section 5 106,5,6 shall not be required. 112.2 112.2 5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 76-100 necessary raceways, both underground and/or surface mounted, to support EV charging. a. Where there is no local utility power supply. 101-150 165 165 b. Where the local utility is unable to supply adequate power. ELECTRIC VEHICLE (EV) CHARGER: [BSC-CG, HCD] Off-board charging equipment used to charge an electric 5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently 231 151-200 231 accessed with a minimum of four two-bike capacity racks per new building. 2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply 5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed 20 percent of actual ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD] A space intended for future installation of Total required kVA = P ≤ 20 × 6.6 with a minimum of two staff bicycle perking spaces per new building. Acceptable bicycle perking facilities. 201 AND OVER parking spaces x EV charging equipment and charging of electric vehicles Where P = Parking spaces in facility 5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 shall be convenient from the street or staff parking area and shall meet one of the following: and the following requirements. ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD] One or more electric vehicle 1. Level 2 EVSE @ 6,6 kVA minimum. Covered, lockable enclosures with permanently anchored racks for bicycles; charging spaces served by EVSE or receptacle(s). 1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be At least one Level 2 EVSE shall be provided. Lockable bicycle rooms with permanently anchored racks; or Maximum allowed kVA to be utilized for EV capable spaces is 75 percent. provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close Lockable, permanently anchored bicycle lockers: ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit, any 4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106,5,3,1 EV capable proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure necessary raceways, both underground and/or surface mounted, to accommodate EV charging, terminaling in a 5,106,5.3 Electric vehicle (EV) charging, [N] [BSC-CG] Construction to provide electric vehicle infrastructure and or equivalent. A common raceway may be used to serve multiple EV capable spaces. facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG] Existing buildings 2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) [BSC-CG, DSA-SS and HCD] The conductors, including: or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2 dedicated 208/240 voll, 40-ampere minimum branch circuit for each EV capable space, with delivery of charging stations (EVCS).- Power allocation method and associated Table 5.106.5.3.5 and shall be provided in the ungrounded grounded and equipment grounding conductors and the electric vehicle connectors, attachment When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, 30-ampere minimum to an installed EVSE at each EVCS. accordance with regulations in the California Building Code and the California Electrical Code plugs, personnel protection system, and all other fittings, devices, power outlets or apparatus installed specifically for Chapter 11B, Section 11B-228.3. the purpose of transferring energy between the premises wiring and the electric vehicle 3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply 1. When the scope of construction work includes an increase in power supply to an electric service panel as full rated amperage at each EV capable space. 1. On a case-by-case basis where the local enforcing agency has determined compliance with part of a parking facility addition or alteration. this section is not feasible based upon one of the following conditions: The service page) or subpaniel circuit directory shall identify the reserved overcurrent protective device. When a new photovoltaic system is installed covering existing parking spaces. SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES Where there is no local utility power supply space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as 3. When additions or alterations to existing buildings are triggered pursuant to code Section 301 3 and the 5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered Where the local utility is unable to supply adequate power. scope of work includes an increase in power supply to an electric service panel. floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(≤) to Where there is evidence suitable to the local enforcement agency substantiating the existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater local ullity infrastructure design requirements, directly related to the implementation of TABLE 5.106.5.6.1 shall comply with either Section 5.105.2. Section 5.409.2; or Section 5.409.3. Effective January 1, 2026, the combined Section 5.106.5.3, may adversely impact the construction cost of the project. 1 On a case-by-case basis where the local enforcing agency has determined compliance with this section is floor area shall be 50,000 square feet or greater 2. Parking spaces accessible only by automated mechanical car parking systems are not not feasible based upon one of the following conditions: NUMBER OF TOTAL NUMBER OF ACTUAL NUMBER OF REQUIRED EV required to comply with this gode section. a. Where there is no local utility power supply [DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater REQUIRED EVCS2 PARKING SPACES CAPABLE SPACES b. Where the local utility is unable to supply adequate power. shall comply with either Section 5.105.2, 5.409.2, or 5.409.3, Addition(s) to existing building(s) where the total floor c. Where there is evidence suitable to the local enforcement agency substantiating that additional 5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2: 0.9 local utility infrastructure design requirements, directly related to the implementation of Section. O. 0 5.106.5.3 1 and the following requirements: Section 5.409.2 or Section 5.409.3. 5.106.5.3, may adversely impact the construction cost of the project. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm). 10-25 - 4 1 d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues. diameter shall be provided and shall originate at a service panel or a subpanel(s) serving Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of Remote parking facilities that do not have access to the building service panel. the existing building(s) is not eligible to meet compliance with Section 5.105.2. the area, and shall terminate in close proximity to the proposed location of the EV capable 26-50 8 2 Parking area lighting upgrades where no trenching is part of the scope of work. and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be 4 Emergency repairs, including but not limited to water line break in parking facilities, natural disaster 13 51-75 3 5.105.2 Reuse of existing building. An alteration or addition to an existing building shall maintain at a minimum 45. used to serve multiple EV charging spaces. percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and A service panel or subpanel (s) shall be provided with panel space and electrical load. 17 76-100 4 floors; and lateral elements) and existing building enclosure (root framing, wall traming and exterior finishes). Window capacity for a dedicated 208/240 voit. 40-ampere minimum branch circuit for each EV 5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure assemblies, insulation, portions of buildings decried structurally unsound or hazardous, and hazardous materials that 101-150 25 capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS. 6 [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking are remediated as part of the project shall not be included in the calculation. 3. The electrical system and any on-site distribution transformers shall have sufficient capacity facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include 151-200 to supply full rated amperage at each EV capable space. electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or 5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to The service panel or subpanel circuit directory shall identify the reserved overcurrent. Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being 25 percent of EV capable demonstrate compliance with Section 5.105.2. 201 AND OVER 20 percent of total spaces" protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE" Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this 5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure Calculation for spaces shall be rounded up to the nearest whole number. [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking Note: A parking space served by electric vehicle supply equipment or designed as a future EV Each EVCS shall reduce the number of required EV capable spaces by the same number. facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall charging space shall count as at least one standard automobile parking space only for the purpose of 5.105.3 Deconstruction (Reserved). include electric vehicle charging in compliance with either Section 5.106,5,3 and associated Table. complying with any applicable minimum parking space requirements established by an enforcement 5.106.5.6.2 Electric vehicle charging stations (EVCS), EV capable spaces shall be provided with EVSE to 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. agency. See vehicle Code Section 22511.2 for further details. allocated power and infrastructure for the total number of actual parking spaces being added or altered. If EVC5 shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any the area being added or altered exceeds the existing EV capable capacity, allocated power and combination of Level 2 and DCFC Accessible EVCS shall be provided in accordance with California Building infrastructure, provide additional EV charging as needed to comply with this section DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLE STANDARDS (CALGREEN) CODE. D

ENTRANCES AND DOORS:

- 1. IN NEW CONSTRUCTION, ALL PRIMARY ENTRANCES AND EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE ACCESSIBLE TO THE DISABLED. IN EXISTING BUILDINGS WHERE NOT ALL ENTRANCES ARE ACCESSIBLE, ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS. 3. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 36 INCHES IN WIDTH, AND NOT LESS THAN
- 80 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE MOUNTED SO THAT THE CLEAR WIDTH THE DOORWAY IS NOT LESS THAN 32 4. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE PART OF AN ACCESSIBLE ROUTE OR SPACE, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER
- TYPE HARDWARE. PANIC BARS. PUSH-PULL ACTIVATING BARS. OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. 5. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES MINIMIUM AND 44 INCHES MAXIMUM ABOVE THE FLOOR. THE FLOOR OR LANDING LENGTH ON EACH SIDE OF AN ENTRANCE OR A PASSAGE DOOR
- SHALL BE LEVEL AND CLEAR AT LEAST 60 INCHES IN THE DIRECTION OF THE DOOR SWING AND AT LEAST 48 INCHES OPPOSITE THE DIRECTION OF THE DOOR SWING AS MEASURED AT RIGHT ANGLES TO THE FACE OF THE DOOR IN THE CLOSED POSITION. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE WHICH THE DOOR SWINGS SHALL EXTEND A MINIMUM OF 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR DOORS WITH LATCH SIDE APPROACH AND 36 INCHES FOR DOORS REQUIRING HINGE SIDE APPROACH. 7. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE
- THRESHOLD OF THE DOORWAY. CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. 8. THE BOTTOM 10 INCHES OF ALL DOORS (EXCEPT AUTOMATIC AND SLIDING) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION WHERE NARROW FRAME DOORS ARE USED, A 10 INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST.
- 9. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR OR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY NOT EXCEED 15 LBS. 10. EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH
- THE WORD "EXIT". EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF STAIRWAY OR RAMP IS IDENTIFIED BY A TACTILE SIGN THAT STATES "EXIT STAIR DOWN," "EXIT RAMP DOWN," "EXIT STAIR UP," OR "EXIT RAMP UP" AS APPROPRIATE. EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR EXIT PASSAGEWAY IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE." EACH ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE". EACH DOOR THROUGH A HORIZONTAL EXIT IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "TO EXIT."

CLEAR FLOOR SPACE FOR WHEELCHAIRS

- MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30 INCHES BY 48 INCHES. MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT, UNLESS RESTRICTED BY CODE. FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME ELEMENTS AS ALLOWED BY
- PROVIDE A MINIMUM CLEAR SPACE 60 INCHES WIDE AT ALCOVES GREATER THAN 15 INCHES DEEP AND DESIGNED FOR SIDE APPROACH. PROVIDE A MINIMUM CLEAR SPACE 36 INCHES WIDE AT ALCOVES GREATER THAN

HAZARDOUS AND PROJECTING OBJECTS

24 INCHES DEEP AND DESIGNED FOR FRONT APPROACH.

- OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27 INCHES AND 80 INCHES ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS,
- CORRIDORS, PASSAGEWAYS, OR AISLES. 2. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 INCHES ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT.
- FREE-STANDING OBJECTS MOUNTED ON POSTS / PYLONS MAY OVERHANG 12 INCHES MAXIMUM FROM 27 INCHES TO 80 INCHES ABOVE THE GROUND OR FINISHED FLOOR.
- 4. PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE. 5. ANY OBSTRUCTION OVERHANGING A PEDESTRIAN WAY SHALL BE A MINIMUM OF 80 INCHES

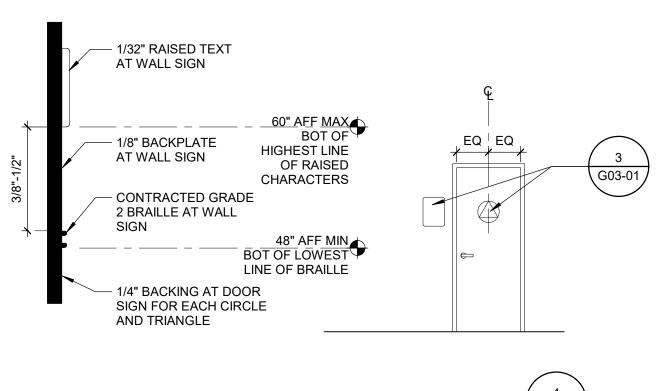
ABOVE THE WALKING SURFACE AS MEASURED TO THE BOTTOM OF THE OBSTRUCTION.

PARKING

- 1. SURFACE SLOPES OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1/4 INCH PER FOOT (2% GRADIENT) IN ANY DIRECTION. ACCESSIBLE PARKING SPACES SHALL BE LOCATED SO AS NOT TO REQUIRE USERS TO TRAVEL OR WALK BEHIND ANY PARKING SPACE OTHER THAN THEIR OWN.
- 3. IN EACH PARKING AREA, A BUMPER OR CURB SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF CARS OVER THE REQUIRED WIDTH OF WALKWAYS. 4. PARKING SPACES RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 INCHES IN AREA AND, WHEN IN AN ACCESSIBLE ROUTE, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. SIGNS MAY ALSO BE MOUNTED ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 60 INCHES FROM THE PARKING SPACE FINISHED GRADE, GROUND, OR

DISCREPANCIES

1. THE INFORMATION DEPICTED ON THIS SHEET REPRESENT BUILDING CODE REQUIREMENTS. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES ON THIS PROJECT THAT WOULD CREATE A CONFLICT WITH THE PLANS OR ACCESS REQUIREMENTS.



COMBINATION OF THE TWO FOLLOWING SIGNS ARE REQ'D FOR RESTROOM IDENTIFICATION:

TRIANGLE DESIGNATES THE MEN'S RESTROOM. A UNISEX RESTROOM IS DESIGNATED BY A 12"

THE SECOND SIGN REQUIRED IS A PERMANENT ROOM IDENTIFICATION SIGN. COORDINATE

— EDGE OF DOOR

CHARACTERS

AND BRAILLE PER G03-0*

AND CONFIRM USE & TYPE OF PICTOGRAMS W/OWNER. ISA'S & DIRECTIONAL SIGNS PER

9" MIN. 9" MIN.

1/8" MAX. VERTICES OF THE TRIANGLE MUST BE RADIUSED 1/8" MIN TO 1/4" MAX.

THE FLOOR. THE EDGES OF THE SIGN MUST BE EASED OR ROUNDED @ 1/6" MIN OR CHAMFERED AT

RESTROOM SIGNAGE

PROVIDE SIGNAGE PER: CBC 11B-703

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

EACH OTHER AND DOOR

FINISH FLOOR

∖G03-01*/*

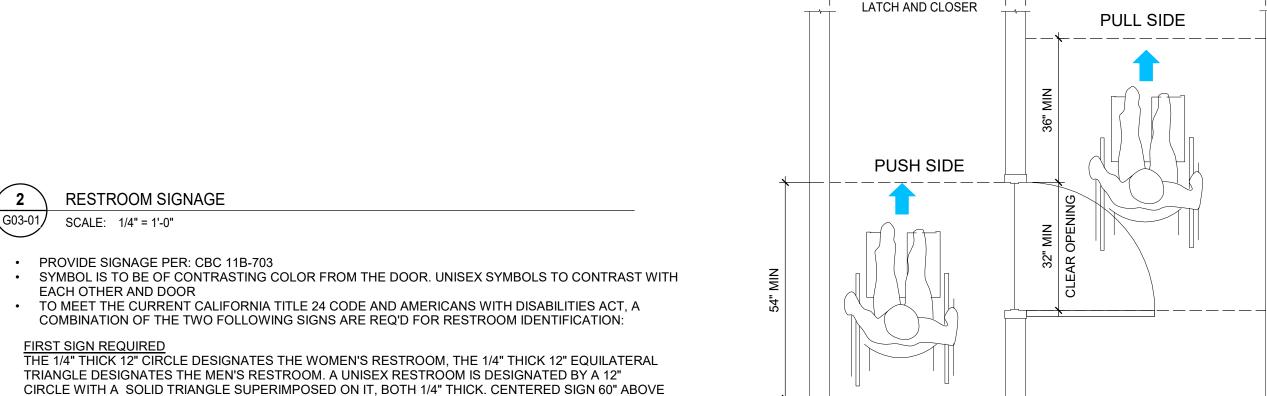
RESTROOM SIGNAGE

ACC DOOR SURFACE REQ

SCALE: 3" = 1'-0"

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

CHARACTERS AND BRAILLE PER



ACC DOOR CLEARANCES

ACC MOUNTING HEIGHT REQ DOOR

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

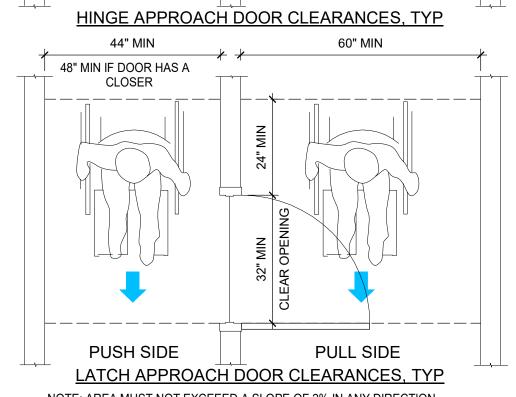
LOOP

PUSH

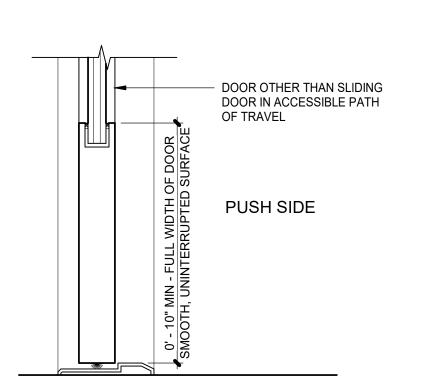
5' - 0"

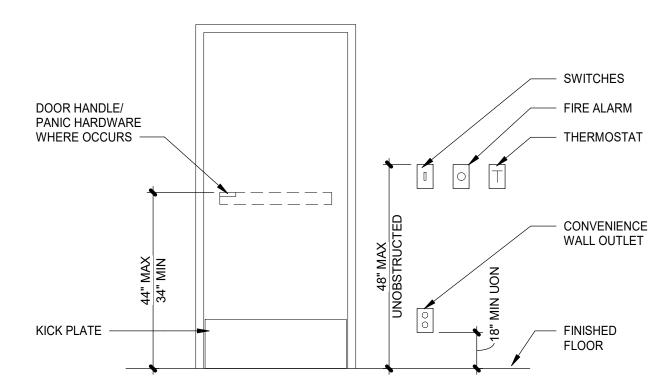
48" MIN IF DOOR HAS A

FRONT APPROACH DOOR CLEARANCES, TYP



NOTE: AREA MUST NOT EXCEEED A SLOPE OF 2% IN ANY DIRECTION





1. HAND-ACTIVATED DOOR OPENING

OF THE WRIST TO OPERATE.

HARDWARE, HANDLES, PULLS, LATCHES,

LOCKS AND OTHER OPERATING DEVICES

SHAPE THAT IS EASY TO GRASP WITH ONE

GRASPING. TIGHT PINCHING OR TWISTING

2. LATCHING AND LOCKING DOORS THAT ARE

ACCESSIBLE ROUTE, SHALL BE OPERABLE

WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS OR OTHER HARDWARE DESIGNED TO PROVIDE

PASSAGE. LOCKED EXIT DOORS SHALL

OPERATE AS ABOVE IN EGRESS DIRECTION.

HAND-ACTIVATED AND WHICH ARE IN

ON ACCESSIBLE DOORS SHALL HAVE A

HAND AND DOES NOT REQUIRE TIGHT

NORR

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Brandley Engineering

Fire Sprinkler: Sacramento Engineering Consultants

Kimley-Horn

Structural: Bevier Structural Eng

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whom NORR has not entered into a contract.

Project Component

Key Plan

Consultants

Survey:

Architecture: NORR

Mechanical: NORR

Electrical: NORR

DATE

WHERE AN OBSTRUCTION IS MORE THAN 8", PROVIDE THE NOTED CLEAR SPACE

ELEVATION TO MATCH FINISH

FLOOR ELEVATION AT DOOR

PROVIDE THIS ADDITIONAL SPACE IF DOOR IS EQUIPED WITH A LATCH

CLEAR SPACE FINISH

AND A CLOSER

_

ISSUED FOR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager JON PRICE Project Leader

MIKE NOVAK **MAMMOTH YOSEMITE AIRPORT**

MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE**

MAMMOTH, CALIFORNIA

Drawing Title **ACCESSIBLE DETAILS**

As indicated IN2024-0022

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Drawing No. G03-01

CARPET WILL NOT EXCEED 1/2" HIGH PILE WHERE INSTALLED CARPET TO BE PERMANENTLY AND SECURELY AFFIXED TO FLOOR MAXIMUM HEIGHTS AT ALL THRESHOLDS MAXIMUM HEIGHT AT SLOPED LEVEL CHANGE

SCALE: 6" = 1'-0"

CHANGE WITH NO TRANSITION

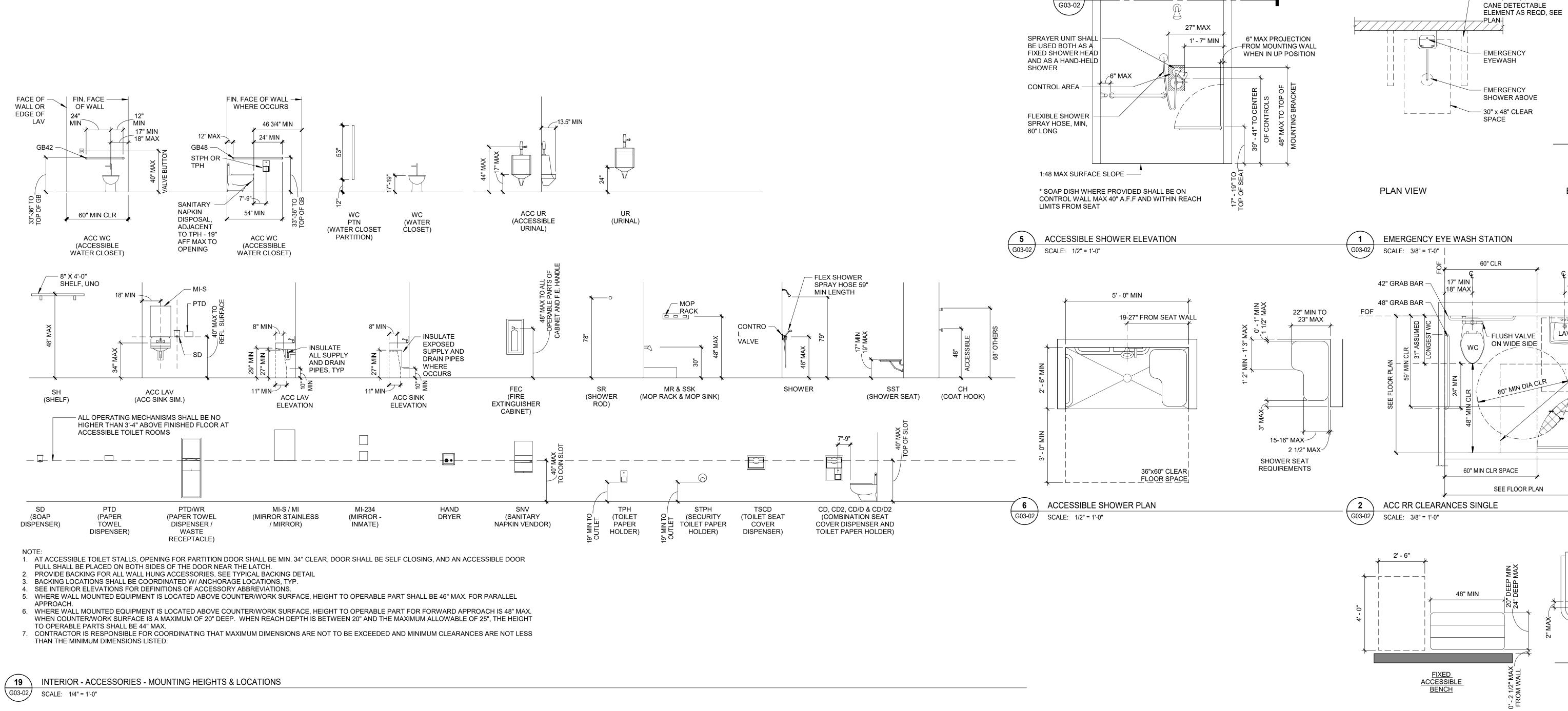
MAXIMUM HEIGHT AT LEVEL

13 FLOORING TRANSITIONS

ACCESSIBLE GENERAL NOTES

SCALE: 1" = 1'-0"

ACC DOOR HARDWARE REQ



ACCESSIBLE BENCH ELEVATION (N.T.S.) ACCESSIBLE RESTROOM BENCH SCALE: 3/8" = 1'-0" 1. FOR WALL BACKING REQIUREMETS SEE 14 / G04-02, 9 / G04-02 AND 16 / G04-02 2. DIMENSIONS ARE TO FACE OF FINISH. 60" MIN CLR, 66" MIN IF NÓ 59" MIN TOE CLEARANCE | TELOOR MOUNTED 1 1/2" DIA SST GRAB BARS, TYP — ∕12" MAX 42" MIN 24" MIN FLUSH VALVE 24" MIN TO BE ON OPEN SIDE --6" MIN TISSUE DISPENSER 18" MAX 7" MIN TO FIX 17" MIN 9" MAX 32" MIN - SANITARY NAPKIN DISPOSAL, WITHIN AT LEAST ONE SIDE PARTITION TO WALL + + + REACH RANGE SHALL PROVIDE TOE CLEARANCE -INSULATE PIPES —— MIN 9" HIGH
BY 6" DEEP
TOE
CLEARANCE
A) LAVATORY ELEVATION

30" MIN
6" MAX
3" MAX
3" MAX 30" MIN CLR 4 TYP TOILET ROOM ACCESS REQ
G03-02 SCALE: 1/4" = 1'-0"

— WALL, RAIL, OR OTHER

ELEVATION VIEW

- 30"x48" CLR

REQD DOOR

CLEARANCE

, SEE DETAIL

SPACE

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Drawing Title

PLUMBING ACCESSIBILITY **DETAILS** As indicated IN2024-0022 G03-02 ARCH E Title Block - v.2023 - Rev (July/23) - Copyright © 2023

DATE

ISSUED FOR

(H) MAXIMUM WALL HEIGHT (C) MAXIMUM LENGTH OF WALL CANTILIVER

1. TRACK SPLICES ARE PROHIBITED WITHIN OR AT THE INTERSECTIONS CANTILEVER AND BACKSPANS LOCATIONS.

(B) MINIMUM BACKSPAN LENGTH OF CANTILEVER (B1) MAXIMUM LENGTH OF FLAT BRACE (S) MAXIMUM LENGTH OF WALL BETWEEN SUPPORT POINTS

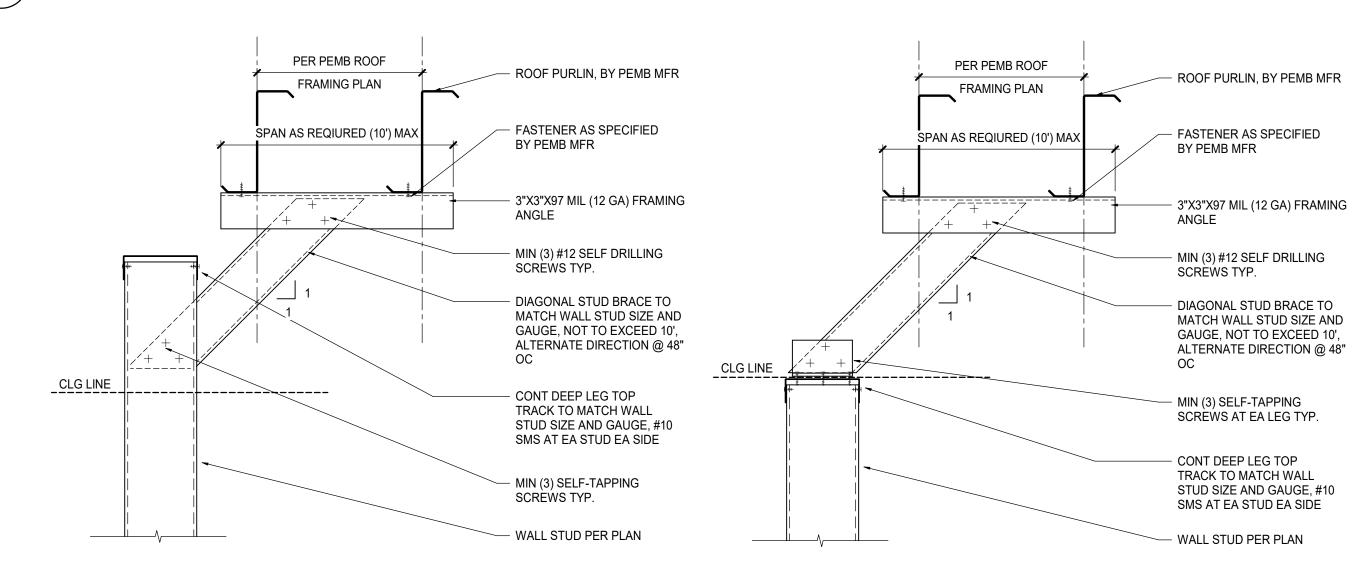
2. TRACK SPLICES ARE ACCEPTABLE AT ENDS OF SPANS (S). 3. THIS INFORMATION IS APPLICABLE WHERE GYPSUM WALL BOARD IS APPLIED AT ONE OR BOTH SIDES OF THE FRAMING ASSEMBLY.

(R) MINIMUM RETURN WALL LENGTH TO BRACE MAIN WALL	W/FREE END
(R1) MINIMUM RETURN WALL LENGTH TO BRACE MAIN WALI	L W/CONNECTED END

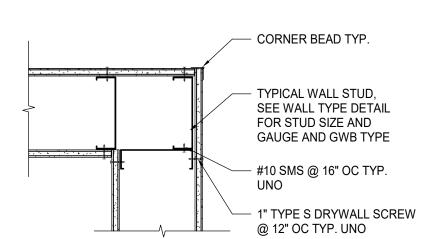
MAX WALL HEIGHT (H)	MAX TRACK SIZE	MAX CANTAVLVER (C)	MIN BACKSPAN (B)	MAX SPAN (S)	MIN RETURN (R)	MIN RETURN (R1)	SCREWS
	250T125-27	4'-3"	8'-6"	8'-6"	10'-9"	6'-3"	(2)#10 SI
	250T125-33	5'-0"	10'-0"	10'-0"	11'-9"	7'-3"	(2)#10 S
	250T125-43	6'-0"	12'-0"	12'-0"	12'-9"	8'-3"	(3)#10 S
	362T125-27	6'-3"	10'-6"	10'-6"	12'-0"	7'-6"	(2)#10 S
CI OII	362T125-33	6'-3"	12'-6"	12'-6"	13'-3"	8'-6"	(3)#10 S
6'-0"	362T125-43	7'-3"	14'-6"	15'-3"	14'-3"	9'-3"	(3)#10 S
	400T125-27	5'-6"	11'-0"	11'-3"	12'-3"	7'-9"	(3)#10 S
	400T125-33	6'-6"	13'-0"	13'-3"	13'-6"	8'-9"	(3)#10 S
	400T125-43	7'-6"	15'-0"	16'-0"	14'-6"	9'-6"	(3)#10 S
	600T125-27	7'-0"	14'-0"	14'-3"	14'-0"	9'-3"	(3)#10 S
	600T125-33	8'-0"	16'-0"	16'-6"	15'-0"	10'-0"	(3)#10 S
	600T125-43	8'-9"	17'-6"	20'-3"	15'-0"	11'-0"	(4)#10 S
	362T125-27	3'-9"	7'-6"	7'-6"	14-6"	9'-6"	(3)#10 S
	362T125-33	4'-3"	8'-6"	8'-9"	15'-3"	10'-6"	(3)#10 S
	362T125-43	5'-3"	10'-6"	10'-9"	17'-0"	12'-0"	(4)#10 S
12'-0"	400T125-27	3'-9"	7'-6"	8'-0"	14'-6"	9'-6"	(3)#10 S
12 -0	400T125-33	4'-6"	9'-0"	9'-3"	15'-9"	11'-0"	(4)#10 S
	400T125-43	5'-6"	11'-0"	11'-3"	17'-6"	12'-6"	(4)#10 S
	600T125-27	5'-6"	11'-0"	11'-3"	12'-3"	7'-9"	(4)#10 S
	600T125-33	5'-9"	11'-6"	11'-9"	17'-9"	12'-9"	(5)#10 S
	600T125-43	7'-0"	14'-0"	14'-3"	19'-9"	14'-6"	(5)#10 S

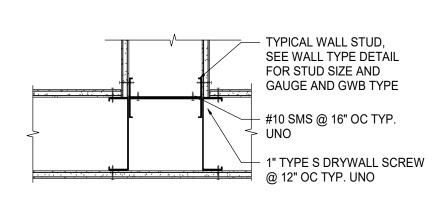
IAX WALL EIGHT (H)	MAX BRACE SIZE	MAX BRACE SPAN (B1)	MAX SPAN (S)
	250S125-30	9'-6"	
	362S162-33	16'-0"	10'-0"
	362S200-43	20'-0"	
	362S137-33	10'-0"	
6'-0"	400S200-43	20'-0"	15'-0"
	600S250-54	30'-0"	
	362S162-33	9'-6"	
	600S200-33	20'-0"	20'-3"
	600S250-68	30'-0"	
	1		
	362S137-33	9'-6"	
	400S162-33	12'-6"	8'-0"
	400S200-43	16'-0"	
	362S162-43	10'-0"	
12'-0"	362S200-54	16'-0"	11'-0"
	600S250-43	22'-0"	
	362S162-43	10'-0"	
	400S200-54	16'-0"	14'-3"
	600S250-68	26'-0"	

TYPICAL FREE STANDING WALL FRAMING SCALE: 1/2" = 1'-0"



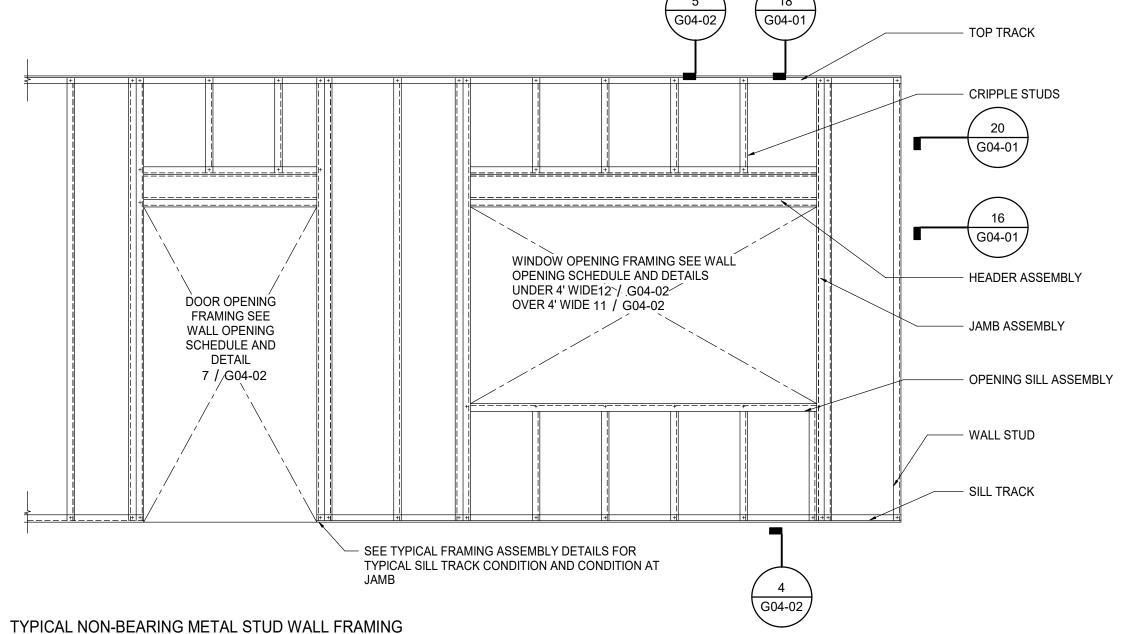
DIAGONAL KICKER SCALE: 1 1/2" = 1'-0"

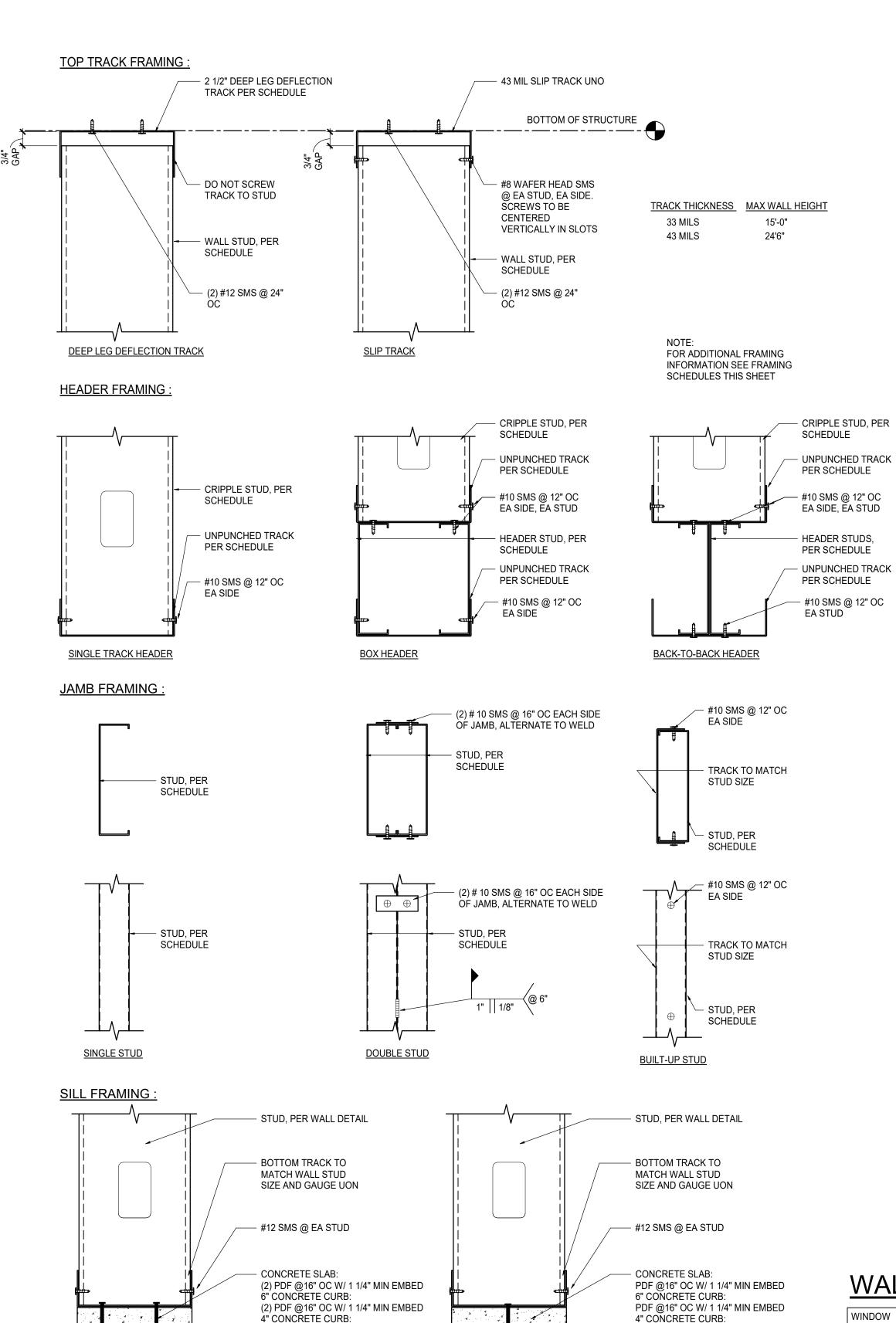




20 G04-01 TYPICAL CORNER FRAMING SCALE: 1 1/2" = 1'-0"

TYPICAL INTERSECTION FRAMING SCALE: 1 1/2" = 1'-0"





(2) 3/8" Ø x 2" EMBED SCREW ANCHOR

CONC. SLAB/CURB

BOTTOM OF WALL

CONC. SLAB/CURB

BOTTOM OF JAMB

12 TYPICAL FRAMING ASSEMBLY

G04-01 SCALE: 3" = 1'-0"

WALL FRAMING NOTES:

- NOTE ALL STEEL TO BE MIN. Fy = 33 KSI U.N.O. METAL STUDS TO BE SSMA COLD-FORMED STEEL FRAMING, ICC-ESR #3064P
- TYPICAL FASTENERS, U.N.O. REFER TO ANCHOR SCHEDULE a. STEEL TRACK TO CONCRETE 0.177" DIA. SHANK, 1-1/2" MIN. PENETRATION,
- POWDER DRIVEN FASTENER, 24" O.C. b. STEEL STUD TO STEEL STUD OR TRACK 20 GA.: #8 - 18 X 1/2" SELF-DRILLING SCREW WITH PHILIPS PAN HEAD, MIN. (2) PER CONNECTION 18 GA. - 16 GA: #10 - 16 X 3/4" SELF-DRILLING SCREW WITH PHILIPS PAN HEAD, MIN. (3) PER CONNECTION STEEL STUD OR TRACK TO STRUCTURAL STEEL
- (2) ROWS AT 16" O.C. CONTINUOUS d. PLYWOOD TO STEEL STUDS #10 - 24 X 1-1/4" SELF-DRILLING SCREWS, THIN

0.145" DIA SHANK, 5/8" MIN. LENGTH, POWDER

DRIVEN FASTENER, MIN. (2) PER CONNECTION OR

WAFER HEAD, 12" O.C. PERIMETER, 24" O.C. FIELD GYPSUM BOARD TO STEEL STUD #6 X 1-1/4" TYPE 'S-12' BUGLE HEAD SCREW, SELF-DRILLING FOR ATTACHMENT TO STEEL STUD BUTT JOINTS: 12" O.C.

FIELD: 12" O.C. CEILINGS, 24" O.C. WALLS

- ALL COLD-FORMED METAL BRACING AND SUSPENDED COMPONENTS ARE FROM STRUCTURE (NOT FROM DECK) WALLS TO BE BRACED TO STRUCTURE ABOVE USING
- ALTERNATING STUDS (362S162-33) MAX. UNBRACED LENGTH OF 4'-0". SEE CONNECTION DETAILS ON SHEET A122 ALL INTERIOR PARTITION WALLS TO BE DESIGN FOR A LATERAL LOAD OF 5 PSI.
- ALL STUDS ARE ASSUMED TO HAVE 5/8" GYP BD. ON BOTH FACES FOR FULL HEIGHT OR ARE TO BE PROVIDED WITH BRIDGING AS
- REFER TO WALL FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISH MATERIALS PROVIDE CEMENT BOARD BEHIND ALL WALL TILE GC TO FURNISH AND INSTALL INSULATION AS INDICATED
- PROVIDE 3" DEEP SLIP TRACK CONNECTION AT TOP OF WALL TO ACCOMMODATE VERTICAL MOVEMENT WALL STUD TABLE:

Interior Non-Bearing Partitions Maximum Height for Metal Studs with Deflection Limit L/240							
16" oc spacing	MAXIMUM H	IEIGHT					
THICKNESS	250S125	362S125	400S125	600S125	800S125		
68 MILS	14'-10"	19'-11"	21'-7"	30'-0"	38'-2"		

THICKNESS	250S125	362S125	400S125	600S125	800S125
68 MILS	14'-10"	19'-11"	21'-7"	30'-0"	38'-2"
54 MILS	13'-11"	18'-7"	20'-1"	27'-11"	35'-2"
43 MILS	13'-0"	17'-7"	18'-10"	26'-1"	32'-9"
33 MILS	12'-0"	16'-0"	17'-3"	23'-9"	28'-8"
30 MILS	11'-7"	15'-5"	16'-8"	22'-11"	
27 MILS	11'-3"	14'-11"			
18 MILS	9'-7"				
24" oc spacing	MAXIMUM F	HEIGHT		•	•
THICKNESS	250S125	362S125	400S125	600S125	800S125
68 MILS	13'-0"	17'-5"	18'-10"	26'-2"	33'-4"
54 MILS	12'-2"	16'-3"	17'-7"	24'-5"	30'-9"
43 MILS	11'-5"	15'-2"	16'-5"	22'-10"	28'-8"
33 MILS	10'-6"	13'-11"	15'-1"	20'-6"	23'-5"
30 MILS	10'-2"	13'-6"	14'-7"	19'-0"	
27 MILS	9'-10"				
18 MILS					
		•	•		

1. THIS CHART SHALL BE USED UNLESS STUD SIZE, GAUGE, AND SPACING ARE OTHERWISE NOTED BY ARCHITECTURAL OR STRUCTURAL. THE MOST RESTRICTIVE SPECIFICATION SHALL GOVERN. 2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL STUD

COLD-FORMED STEEL SPECIFICATION IS IN ACCORDANCE WITH AISI S100. COLD-FORMED STEEL FRAMING OF NONSTRUCTURAL MEMBERS IS IN ACCORDANCE WITH AISI S220. TABLE VALUES PER STUD HEIGHT LIMITS WITH 5 PSF LOAD PER 2023 CBC

MEMBER TYPE FLANGE WIDTH MEMBER DEPTH - THICKNESS MEMBER DEPTH: MEMBER TYPE: FLANGE WIDTH: THICKNESS: S = STUD OR JOIST 137 = 1 3/8" MILS GAGE T = STRUCTURAL TRACK 125 = 1 1/4" 350 = 3 1/2" 362 = 3 5/8" F = FURRING CHANNEL 162 = 1 5/8" 400 = 4" U = U-CHANNEL 200 = 2" 30 20 (INT) 600 = 6" 800 = 8" 250 = 2 1/2" 20 300 = 3"

	00 14
TYPE	ICC NUMBER
KWIK-FLEX	ICC-ESR #2196
X-U	ICC-ESR #2269
DS	ICC-ESR #1663
ССТХ	ICC-ESR #3654
	KWIK-FLEX X-U DS

ALTERNATE FASTENERS MUST MEET THE MINIMUM REQUIREMENTS OF THE SPECIFIED ICC NUMBERS

BRACE FRAMING SCHEDULE:

STUD SIZE	WALL BRACING SPACING	MAX HEIGHT	MIN TRACK SIZE	MIN BRACE SIZE	MIN BRACE SIZE
250S	5'-6"	10'-0"	250T125-30	362T125-43	(3) #10 SMS
2000	4'-0"	16'-0"	250T125-30	362T125-33	(2) #10 SMS
362S	6'-6"	10'-0"	362T125-30	362T125-43	(3) #10 SMS
3020	5'-5"	16'-0"	362T125-33	362T125-43	(3) #10 SMS
400S	7'-0"	10'-0"	400T125-30	362T125-33	(2) #10 SMS
-1000	7'-0"	18'-0"	400T252-43	362T125-43	(3) #10 SMS
600S	6'-6"	10'-0"	600T125-30	362T125-43	(3) #10 SMS
0000	8'-0"	20'-0"	600T125-43	362T125-43	(4) #10 SMS
800S	10'-0"	10'-0"	800T125-43	362T125-43	(3) #10 SMS
0000	8'-6"	20'-0"	800T125-43	362T125-54	(5) #10 SMS

WALL OPENING FRAMING SCHEDULE:

WINDOW WIDTH	SILL TRACK SIZE	HEADER TRACK SIZE	HEADER STUD SIZE	MIN JAMB SIZE		
				SINGLE STUD	WELDED STUD	BUILT-UP
4'-0"	T125-27	T200-68	-	S250-54	(2) \$137-33	S125-33 & T125-33
4'-0" TO 8'-0"	T125-27	T125-33	400S162-43	S300-54	(2) S137-43	S137-43 & T125-43
8'-0" TO 12'-0"	T125-43	T125-43	600S162-43	S300-97	(2) S137-54	S137-54 & T125-54

MATCH WALL STUD DEPTH WHERE NOT INDICATED

4" CONCRETE CURB:

3/8" Ø x 2" EMBED SCREW ANCHOR @

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Project Component

Seal(s)

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect

ISSUED FOR

DATE

Key Plan

Consultants Brandley Engineering Kimley-Horn Architecture: NORR Structural: Bevier Structural Eng Mechanical: NORR Electrical: NORR Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager JON PRICE Project Leader MIKE NOVAK

MAMMOTH YOSEMITE

AIRPORT

MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE**

MAMMOTH, CALIFORNIA

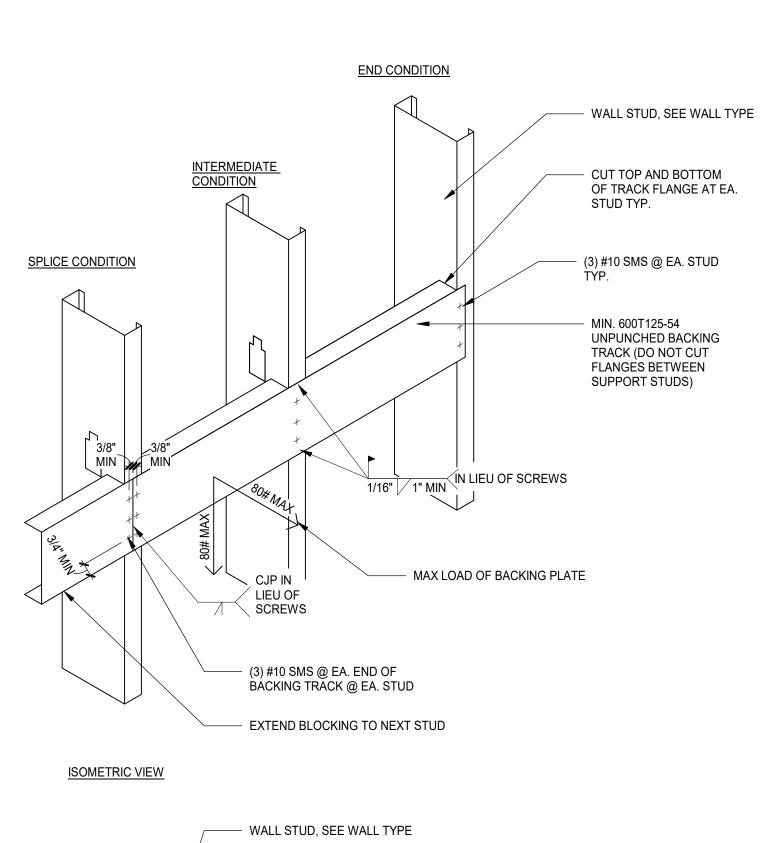
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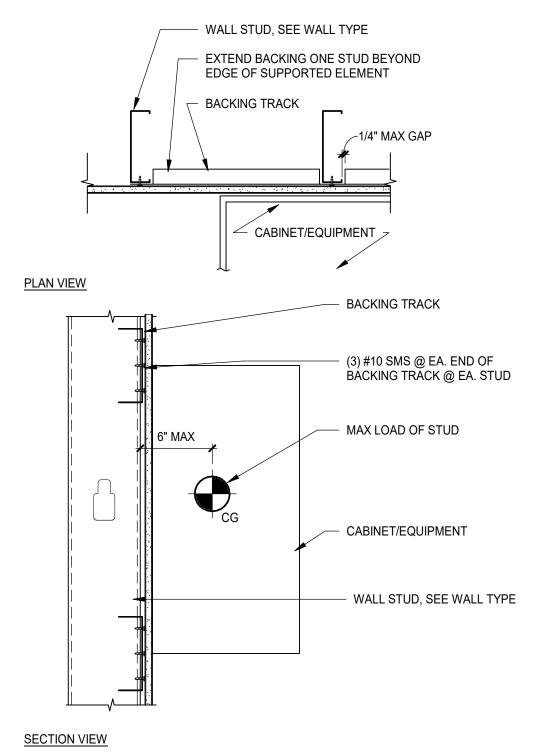
Drawing Title **TYPICAL NON-BEARING** FRAMING DETAILS

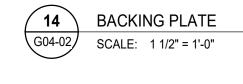
As indicated Project No. IN2024-0022

G04-01

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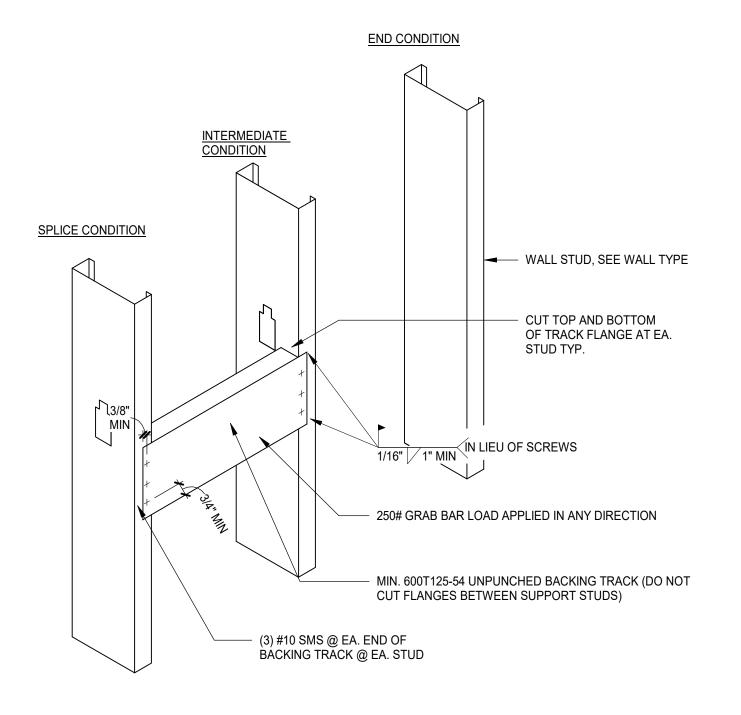


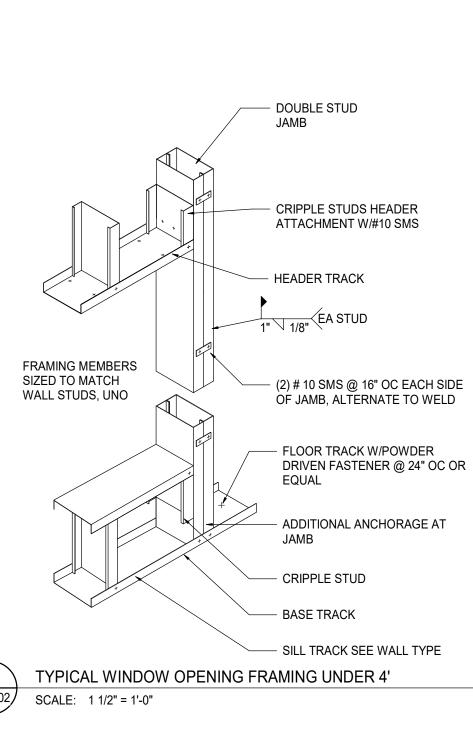


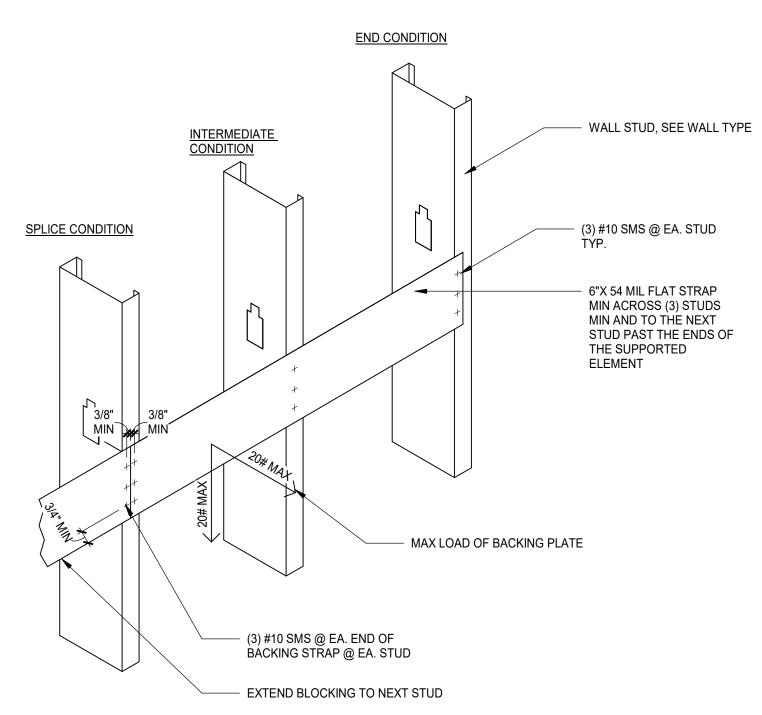


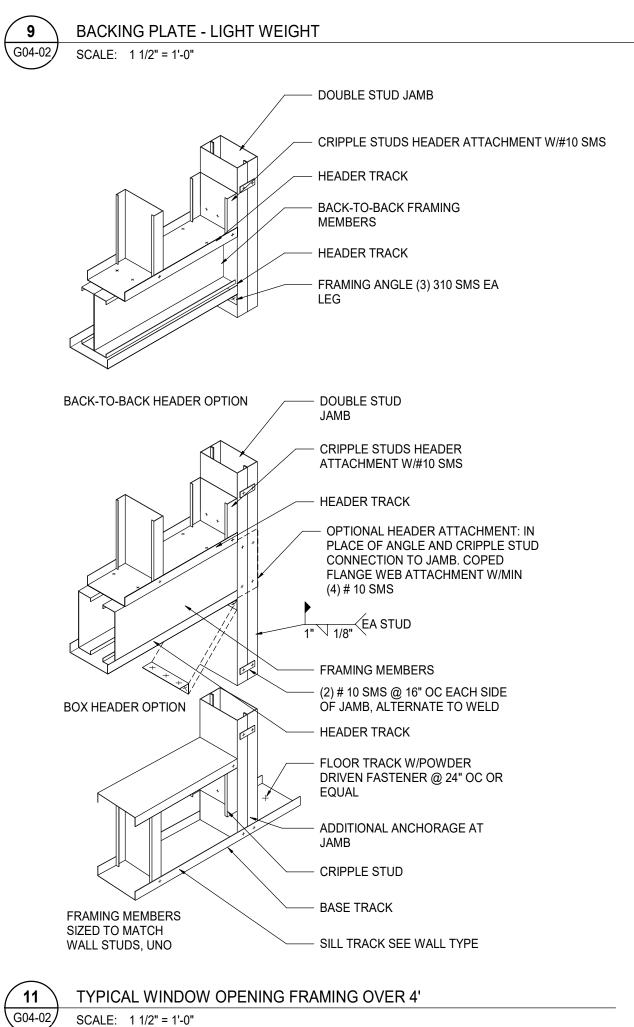
16 BACKING PLATE - GRAB BAR

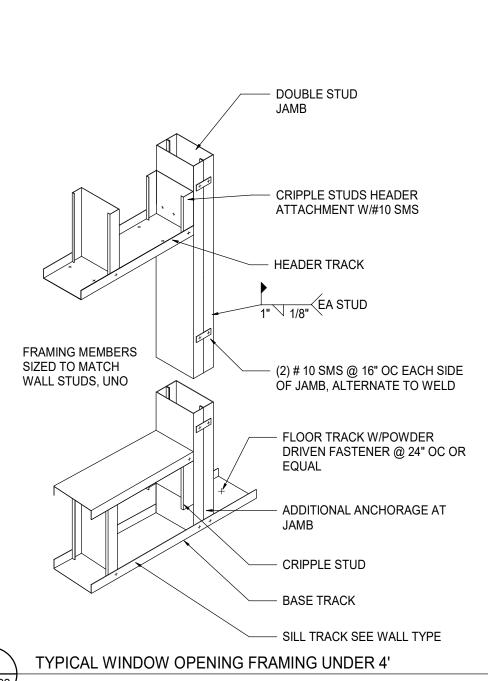
G04-02 SCALE: 1 1/2" = 1'-0"

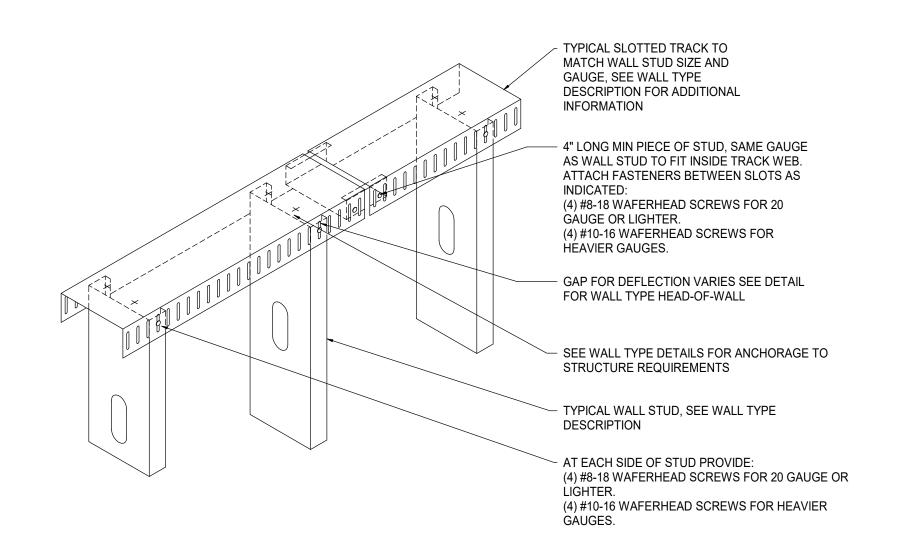


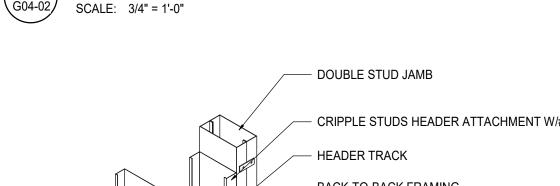




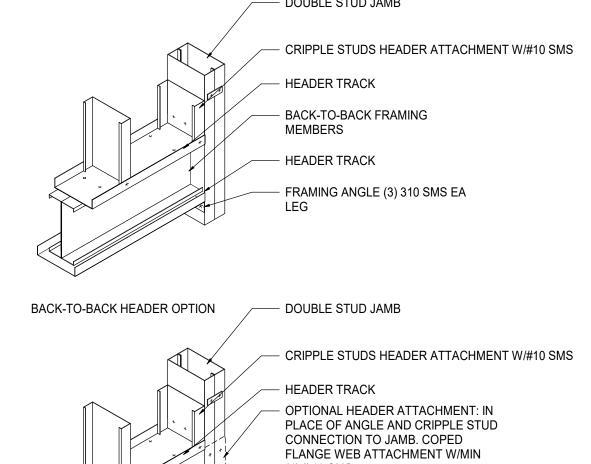


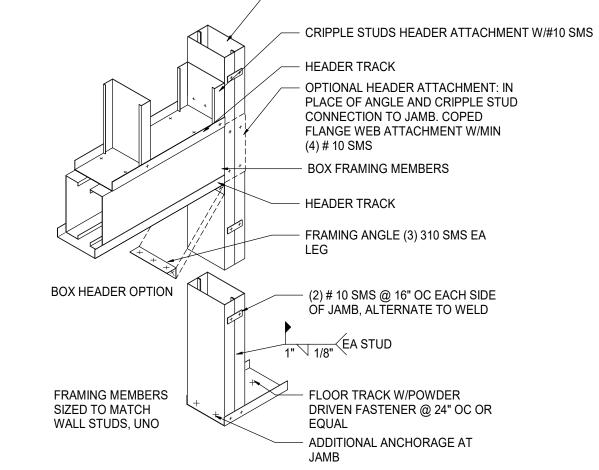


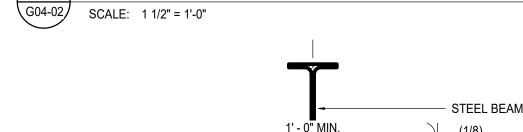




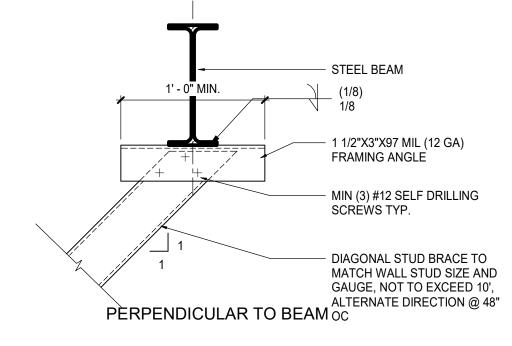
TYPICAL WALL SLIP TRACK

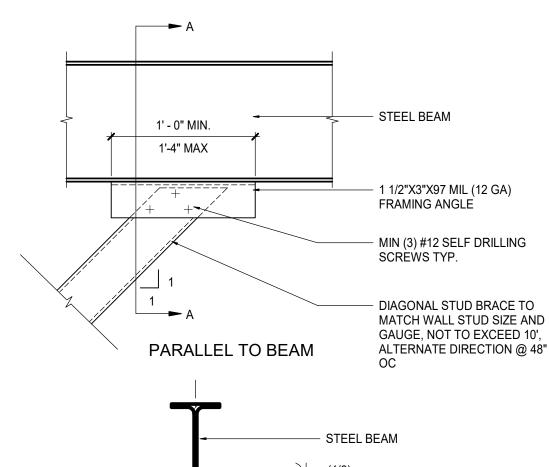


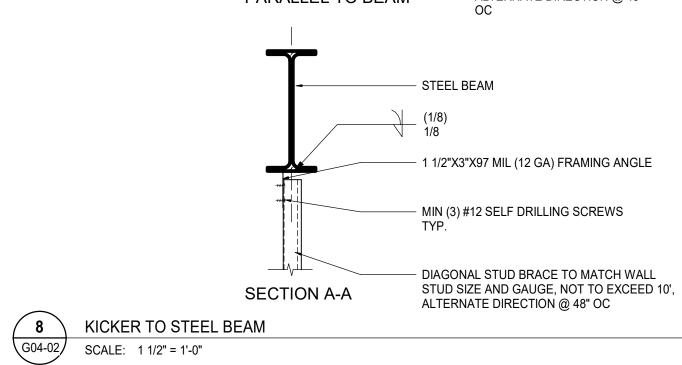


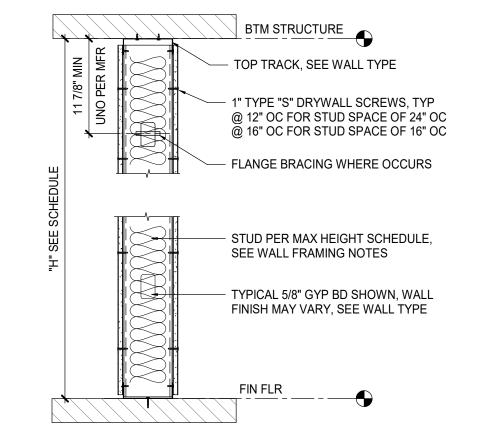


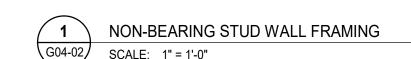
TYPICAL DOOR OPENING FRAMING

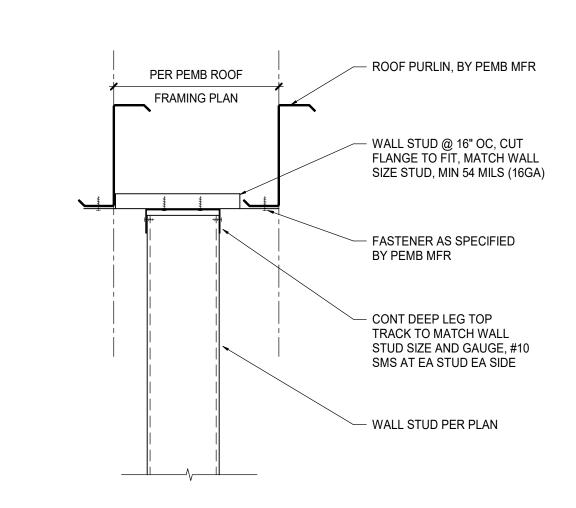




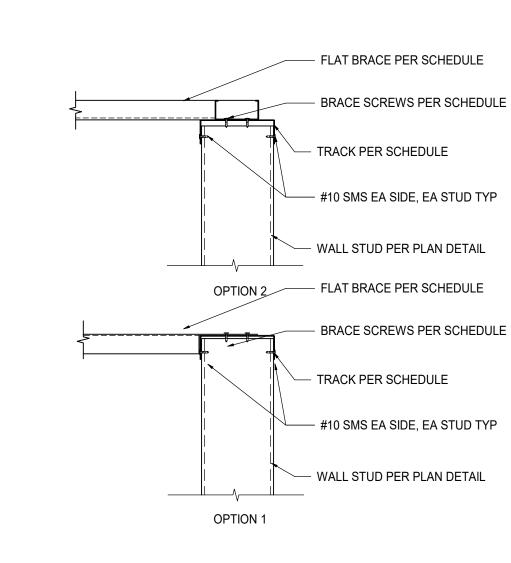






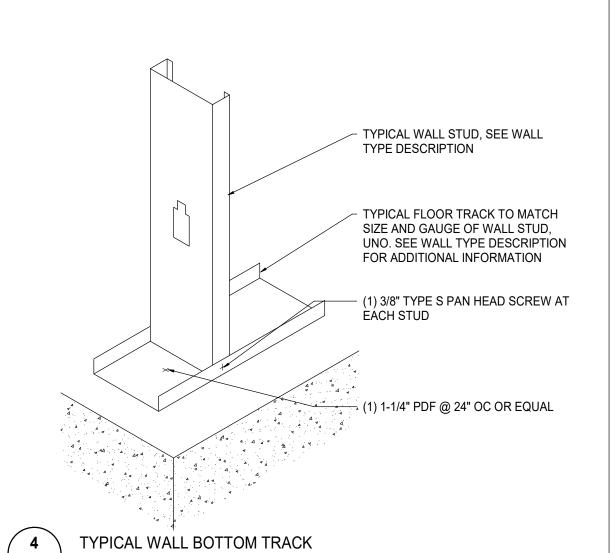


TYPICAL DEFLECTION TRACK SCALE: 1 1/2" = 1'-0"



TOP OF WALL BRACING SCALE: 1 1/2" = 1'-0"

SCALE: 1" = 1'-0"



This drawing has been prepared solely for the use of MAMMOTH YOSEMITE AIRPORT and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract. This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect

DATE

ISSUED FOR

Project Component Key Plan

Consultants Brandley Engineering Kimley-Horn Architecture: NORR Structural: Bevier Structural Eng Mechanical: NORR Electrical: NORR Fire Sprinkler: Sacramento Engineering Consultants

Seal(s)

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager Checked Project Leader

MAMMOTH YOSEMITE AIRPORT

MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE**

MAMMOTH, CALIFORNIA

TYPICAL FRAMING DETAIL\$

As indicated IN2024-0022

> G04-02 ARCH E Title Block - v.2023 - Rev (July/23) - Copyright © 2023

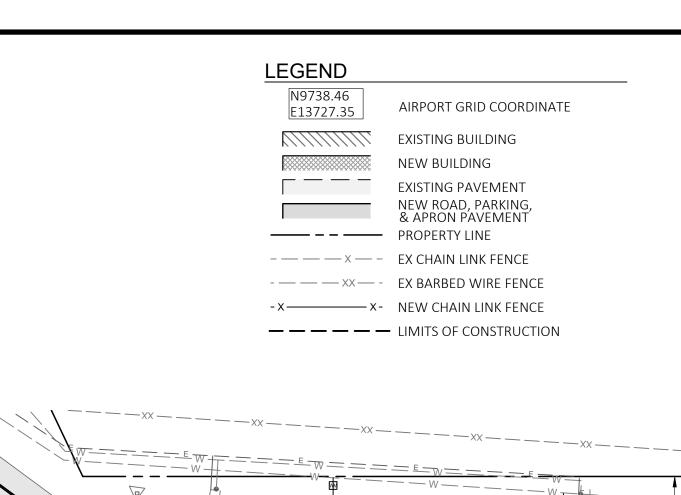
- 2. THIS PROJECT FOLLOWS AFTER THE MULTIPURPOSE BUILDING SITE WORK PHASE 1 - RECONSTRUCT AND EXTEND SERVICE ROAD, RELOCATE TAXIWAY A3. THIS PROJECT MAY BE ISSUED FOR BID BEFORE THE COMPLETION OF PHASE 1. PHASE 1 IMPROVEMENTS ARE DEPICTED SEPARATELY FROM EXISTING FEATURES ON THESE
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY STATE AND LOCAL PERMITS PRIOR TO CONSTRUCTION OF THIS PROJECT.
- 4. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING A MINIMUM OF 72 HOURS IN ADVANCE TO OBTAIN CLEARANCE FOR WORK.
- 5. THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS WHILE THIS PROJECT IS IN PROGRESS. SUPERINTENDENT SHALL BE CONTRACTOR'S DESIGNATED RESPONSIBLE REPRESENTATIVE AND SHALL BE AVAILABLE IN CASE OF EMERGENCIES ON A 24-HOUR DAILY BASIS.
- 6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CLEANLINESS, SAFETY, AND SECURITY OF THE WORK, STAGING AND STORAGE AREAS AT ALL TIMES.
- THESE PLANS SHOW ITEMS TO BE CONSTRUCTED UNDER THIS CONTRACT AND EXISTING FIELD CONDITIONS AT THE TIME THESE PLANS WERE PREPARED. THE EXISTING INFORMATION SHOWN ON THESE PLANS IS FROM THE BEST SOURCES AVAILABLE AT THE TIME OF COMPILATION. ACTUAL FIELD CONDITIONS, GRADES, LOCATIONS AND OTHER FEATURES MAY DIFFER FROM CONDITIONS INDICATED ON THESE DOCUMENTS. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO SATISFY HIMSELF THAT THE INFORMATION IS STILL CURRENT AT THE TIME OF CONSTRUCTION NOTICE TO PROCEED. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES OR CHANGES ENCOUNTERED.
- ELECTRONIC FILES OF THESE PLANS MAY BE PROVIDED BY THE ENGINEER AS A CONVENIENCE TO THE CONTRACTOR. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS AND THE ELECTRONIC FILES, THE PLANS SHALL GOVERN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE ENCOUNTERED. EXISTING GRADES SHOWN ARE LIMITED BY THE ACCURACY OF SURVEYING METHODS AND INTERPOLATION BETWEEN SURVEY POINTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE PROJECT TO THE PRINTED PLANS AND SPECIFICATIONS AND IN ACCORDANCE WITH SOUND CONSTRUCTION PRACTICES.
- 9. THE LOCATION OF EXISTING UNDERGROUND UTILITIES, SERVICE LATERALS AND CONDUIT ("UTILITIES") IS BASED ON THE BEST AVAILABLE INFORMATION TO THE ENGINEER AND SHALL BE ASSUMED AS APPROXIMATE AND REQUIRING FIELD VERIFICATION. CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL UTILITIES AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO DUE TO THE CONTRACTOR'S ACTIVITIES. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT PRIOR TO CONSTRUCTION, AND SHALL POTHOLE TO VERIFY LOCATION, DEPTH, AND SIZE OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. NO EXTRA PAYMENT FOR POTHOLING.
- 10. EXERCISE EXTREME CARE WHEN USING ANY EQUIPMENT TO PREVENT CONTACT WITH ANY NEARBY POWER LINES AND POWER SOURCES. SAFE WORKING CLEARANCES SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.
- 11. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND RPR ON THE PRECISE LOCATION AND LIMITS OF THE CONTRACTOR'S STAGING AND STORAGE AREA, AS WELL AS ANY SPECIAL REQUIREMENTS FOR FENCING, SECURITY OR ACCESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL UTILITIES AND HOOK-UPS NECESSARY FOR THE CONTRACTOR'S USE AND FOR ALL PROJECT FIELD OFFICES AS REQUIRED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL USE THE STAGING AND STORAGE AREA FOR SHOP, MATERIAL AND EQUIPMENT STORAGE, AND OTHER PROJECT-RELATED ACTIVITIES INCLUDING EMPLOYEE PARKING. ALL COSTS ASSOCIATED WITH PREPARATION AND CLEANUP OF THE STAGING AREA SHALL BE BORNE BY THE CONTRACTOR.
- 12. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR AND PAID DIRECTLY TO THE APPROPRIATE UTILITY. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND RPR.
- 13. THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREA OUTSIDE OF THE CONSTRUCTION LIMITS, STAGING AREA, OR DESIGNATED HAUL ROUTES WITHOUT APPROVAL OF THE OWNER AND RPR.
- 14. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE TRAFFIC REGULATIONS CONCERNING THE USE OF STREETS AND ROADWAYS FOR HAULING. ANY DAMAGE DONE TO THE ROADWAYS DUE TO THE CONTRACTOR'S EQUIPMENT OR HAULING OPERATIONS SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER.
- 15. NO MATERIAL SHALL BE WASTED OR STOCKPILED ON THE AIRPORT UNLESS APPROVED BY THE OWNER AND RPR. STOCKPILED MATERIAL SHALL MEET SWPPP REQUIREMENTS AND SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OPERATIONS OR WIND AND IN ACCORDANCE WITH FAA ADVISORY CIRCULARS.
- 16. THE CONTRACTOR SHALL INVESTIGATE THE AVAILABILITY OF AN ADEQUATE SUPPLY OF SUITABLE WATER AND PROVIDE NECESSARY FACILITIES TO FURNISH WATER FOR USE DURING CONSTRUCTION, SOLELY AT HIS EXPENSE. CONTRACTOR SHALL NOT DRAW WATER FROM ANY FIRE HYDRANT FOR USE ON THE WORK WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE AIRPORT, CONTROLLING FIRE DEPARTMENT OR UTILITY.
- 17. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE HYDRANTS AND BACKFLOW PREVENTERS AT ALL TIMES.
- 18. ANY WASTE, CONSTRUCTION DEBRIS, OR SOIL MUST BE DISPOSED OF PROPERLY. DISPOSAL OF MATERIAL OFF-SITE SHALL BE DONE IN A LAWFUL MANNER AND AT A SITE HAVING CURRENT APPROVAL TO ACCEPT SOLID WASTE. DISPOSAL SITE AND PROCEDURES MUST BE IDENTIFIED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER AND RPR FOR APPROVAL PRIOR TO USE.
- 19. CONTRACTOR SHALL HAVE SPILL KITS AVAILABLE IN WORK AREAS AND SHALL CONTAIN ALL SPILLS IMMEDIATELY AND SHALL NOTIFY RPR. AT ANY SIGN OF CONTAMINATED SOIL, THE CONTRACTOR SHALL NOTIFY RPR AND OWNER FOR ASSESSMENT OF APPROPRIATE REMEDIATION.

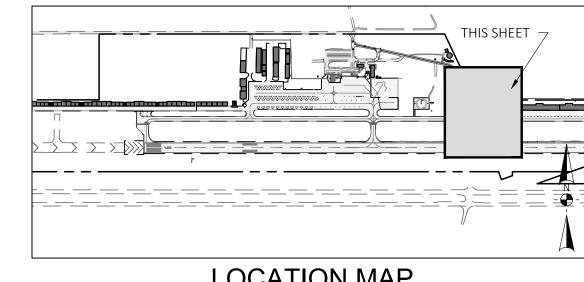
- 20. ANY SOLVENT USED TO CLEAN TOOLS, EQUIPMENT, OR SPILLS MAY BE CONSIDERED A HAZARDOUS WASTE AND MUST BE PROPERLY MANAGED. NO SOLVENTS, CLEANING BY-PRODUCTS, WASTE, REFUSE, OR LEFTOVER PAINT MAY BE DISPOSED OF OR DISCHARGED INTO STORM DRAINS, DRYWELLS, OR ANY GROUND SURFACE, OR OTHERWISE BE PERMITTED TO REMAIN ON AIRPORT PROPERTY. ALL SUCH MATERIAL SHALL BE REMOVED OFF-SITE BY CONTRACTOR IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
- 21. THE CONTRACTOR SHALL CONDUCT THE FINAL CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING THE PAVEMENTS TO AIR TRAFFIC. CONTRACTOR TO PROTECT ALL EXISTING UTILITY VAULTS AND LIDS DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ALL VAULT LIDS ARE OPERATIONAL FOLLOWING COMPLETION OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS DAILY CLEAN-UP OF THE WORK AREA. NO WIRE OR METAL BRISTLES ARE ALLOWED.
- 22. AT THE CONCLUSION OF ALL WORK, CONTRACTOR SHALL SEED CONTRACTOR'S STORAGE, STAGING AND TEMPORARY STOCKPILE AREA AND ALL DISTURBED GRADING OR EMBANKMENT AREAS. LIMITS OF SEEDING SHALL BE VERIFIED BY RESIDENT ENGINEER. HYDROSEEDING SHALL BE A REQUIRED BMP TO BE INCLUDED IN THE SWPPP. NO ADDITIONAL PAYMENT FOR SURFACE PREPARATION OR SEEDING OF DISTURBED AREAS SHALL BE MADE, COST SHALL BE INCLUDED IN THE COST OF PREPARING AND IMPLEMENTING THE SWPPP. SEED MIX MUST MATCH LOCAL GRASSES, COMPLY WITH LOCAL REQUIREMENTS, AND BE SUITABLE FOR USE ON AIRPORTS. SEED MIX, MULCH, FERTILIZER, AND APPLICATION RATES SHALL BE APPROVED BY OWNER PRIOR TO USE. HYDROSEEDING MUST PRODUCE ADEQUATE GROWTH TO SATISFY THE STATE WATER BOARD SUCH THAT THE SWPPP CAN BE CLOSED OUT AFTER THE PROJECT IS COMPLETE.
- 23. THE CONTRACTOR SHALL COMPLETE CLEANUP AND RESTORATION OF THE ENTIRE PROJECT AREA, INCLUDING STAGING AND STORAGE AREAS AND BATCH PLANTS PRIOR TO PROJECT FINAL ACCEPTANCE.

ABBREVIATIONS:

LINEAR FEET

AB	AGGREGATE BASE	LT	LEFT
ABND	ABANDONED	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MH	MANHOLE
ALT		MIN	MINIMUM
	ALTERNATE		
APPROX	APPROXIMATE	MON	MONUMENT
ASB	AGGREGATE SUBBASE	N	NORTH
ATCT	AIR TRAFFIC CONTROL TOWER	NE	NORTHEAST
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BNDY	BOUNDARY	No., #	NUMBER
BLD	BUILDING	NOTAM	NOTICE TO AIR MISSIONS
BM	BENCH MARK	NTS	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	NW	NORTHWEST
BVCE	BEGIN VERTICAL CURVE ELEVATION	OC	ON CENTER
BVCS	BEGIN VERTICAL CURVE STATION	OD	OUTSIDE DIAMETER
CBR	CALIFORNIA BEARING RATIO	PAPI	PRECISION APPROACH PATH INDICATOR
CL OR £	CENTERLINE	PB	PULL BOX
COMM	COMMUNICATION	PC	POINT OF CURVATURE
COORD	COORDINATE	PCC	PORTLAND CEMENT CONCRETE
		PI	POINT OF INTERSECTION
CTAF	COMMON TRAFFIC ADVISORY FREQUENCY	PL	PROPERTY LINE
СТРВ	CEMENT TREATED PERVIOUS BASE		
CSPP	CONSTRUCTION SAFETY & PHASING PLAN	PT	POINT OF TANGENCY
CU YD OR CY	CUBIC YARD	PVI	POINT OF VERTICAL INTERSECTION
DIA	DIAMETER	PWR	POWER
DI	DROP INLET	R	RADIUS
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
E	EAST	RPR	RESIDENT PROJECT REPRENTATIVE
		RT	RIGHT
EA	EACH	RW	RUNWAY
EG	EXISTING GRADE (OR GROUND)		
EVC	END VERTICAL CURVE	S	SOUTH, OR SLOPE
EVCE	END VERTICAL CURVE ELEVATION	SCH	SCHEDULE
EVCS	END VERTICAL CURVE STATION	SD	STORM DRAIN
EX, EXIST	EXISTING	SDR	STANDARD DIMENSION RATIO
EXC	EXCAVATION	SE	SOUTHEAST
FAA	FEDERAL AVIATION ADMINISTRATION	SPEC	SPECIFICATIONS
FBO		SS	SANITARY SEWER
	FIXED BASED OPERATOR	STA	STATION
FG	FINISHED GRADE (OR GROUND)		SQUARE YARD
FL	FLOW LINE		
FT	FEET	SW	SOUTHWEST
GAL	GALLON	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GALV	GALVANIZED	TD	TOP OF DUCT
GB	GRADE BREAK	T/L	TAXILANE
GND	GROUND	T/W	TAXIWAY
HGR	HANGAR	, TYP	TYPICAL
HH	HANDHOLE	UG	UNDERGROUND
			VARIES (OR VARIABLE)
HORZ	HORIZONTAL	VAR	,
HP	HIGH POINT	VC	VERTICAL CURVE
ID	INSIDE DIAMETER	VOL	VOLUME
INV	INVERT	W/	WITH
kV	KILOVOLT	W	WEST, OR WIDTH, OR WATER
kVA	KILOVOLT AMPERE	WM	WATER METER
L	LENGTH	WV	WATER VALVE
L	LLINOTTI	** *	





LOCATION MAP

AIRPOR

SEMITE

Y0

MAMMOTH

DATE

DRAWN

SCALE

SHEET No.

CHECKED

PROJECT No.

FILE 7522.C0101.Site

C01-01

BUILDING

ARFF/SI

S

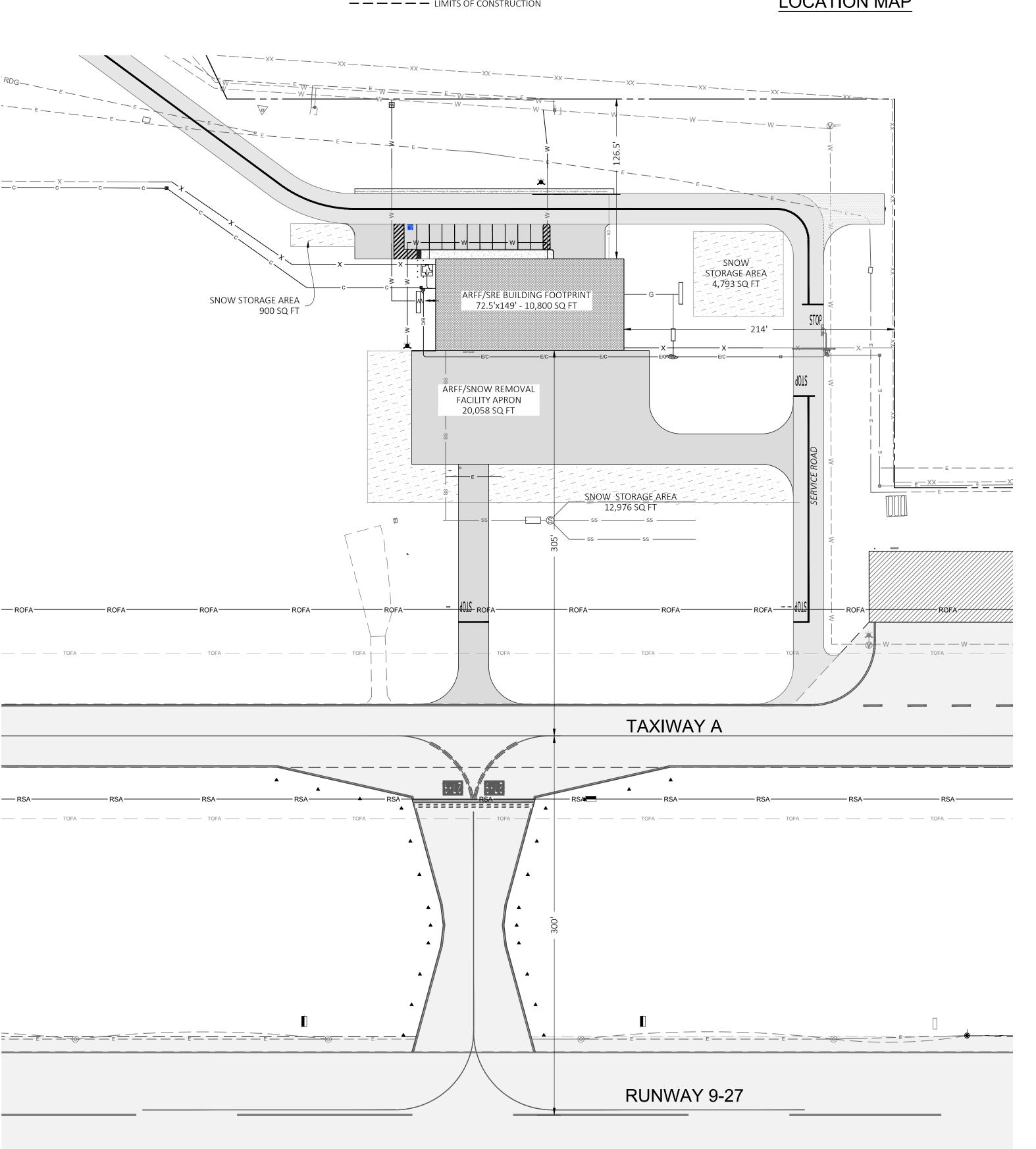
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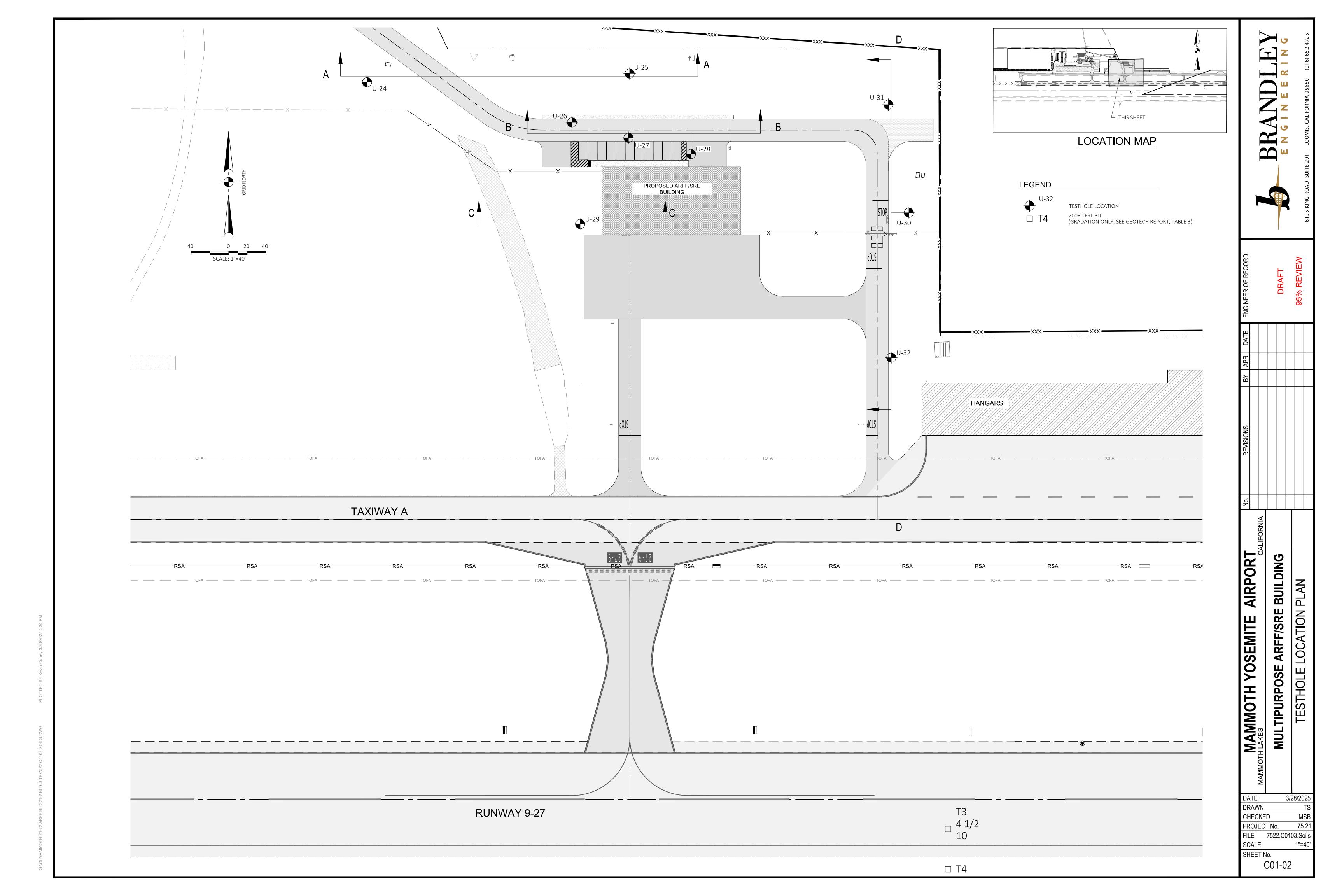
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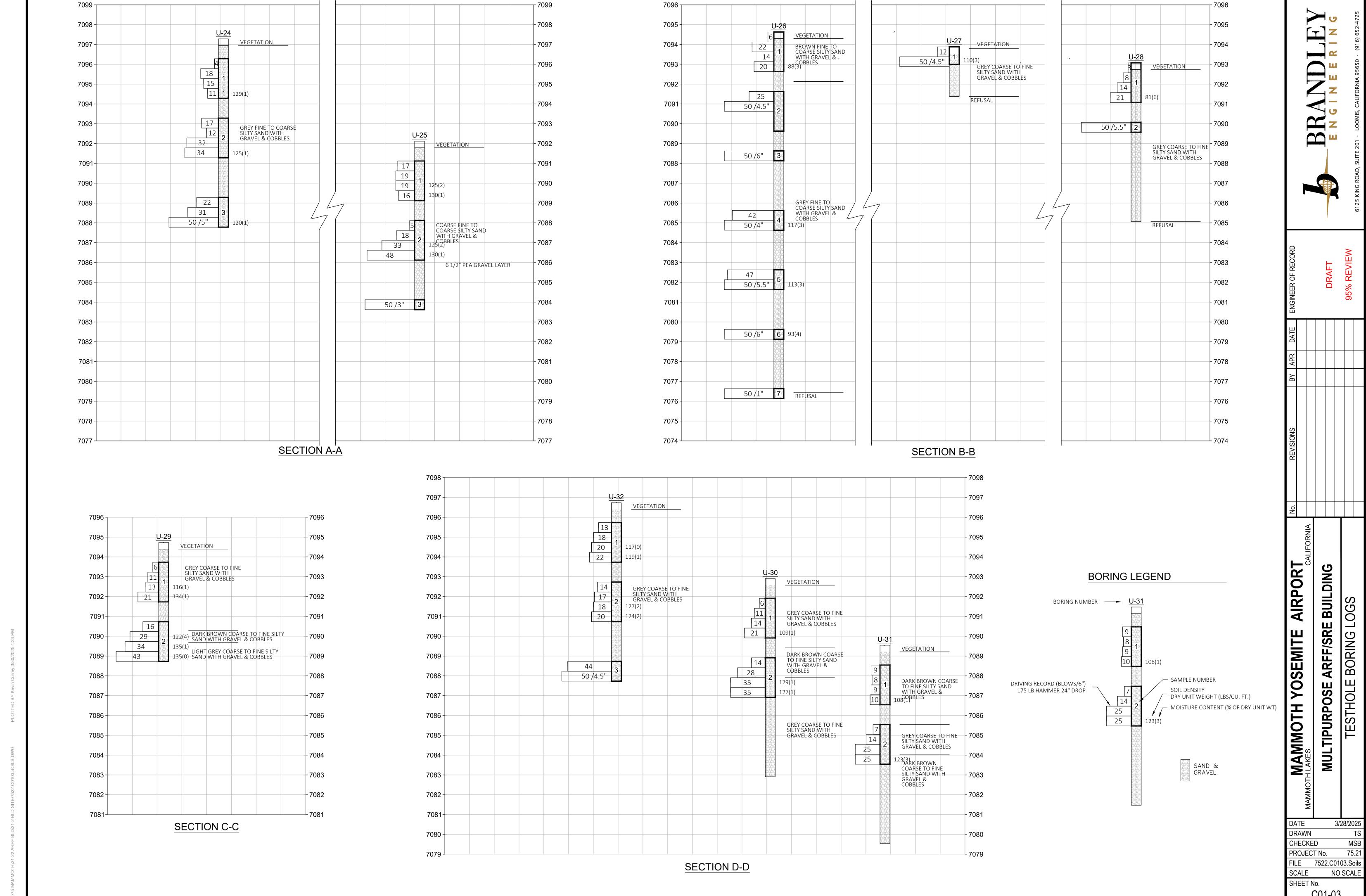
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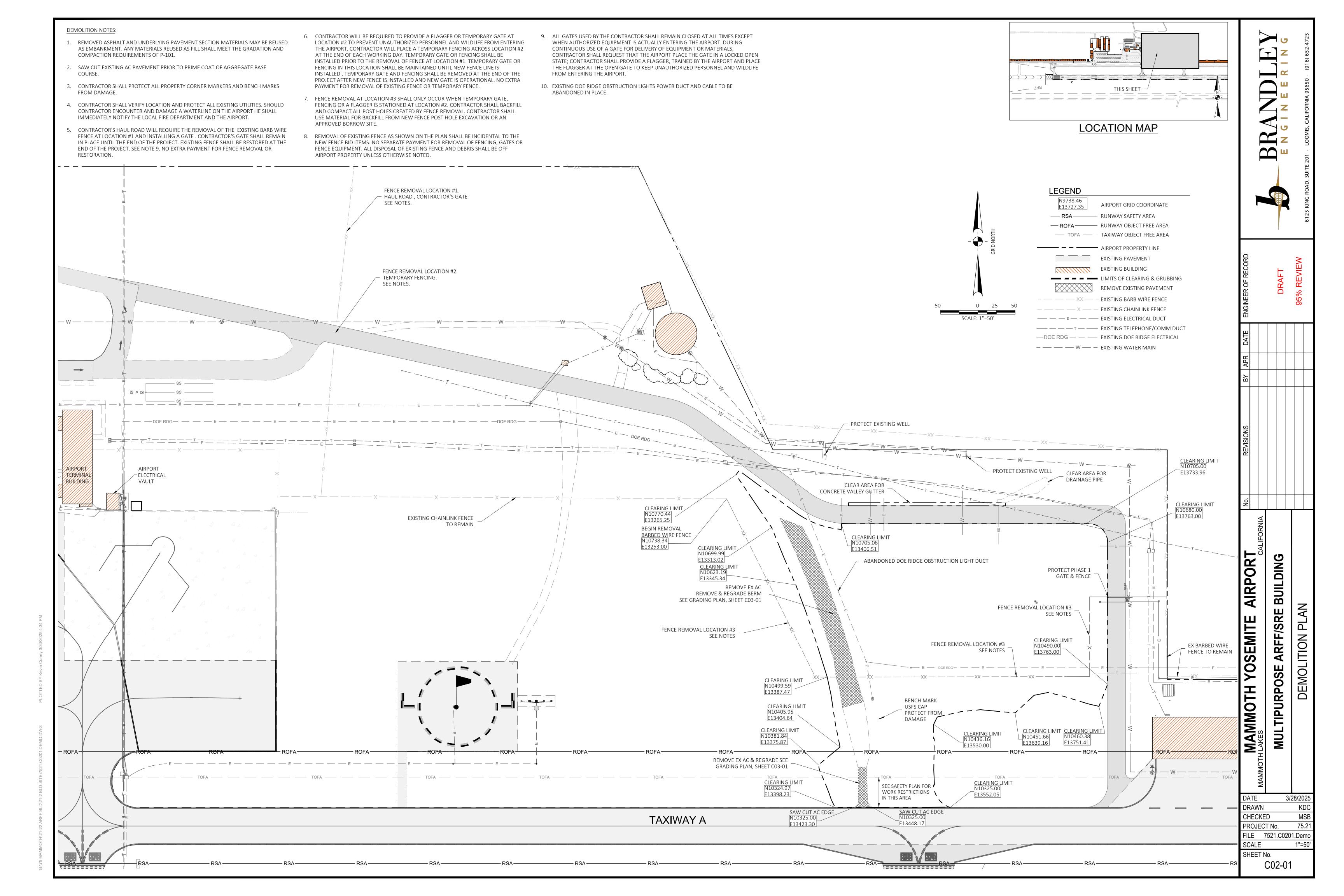
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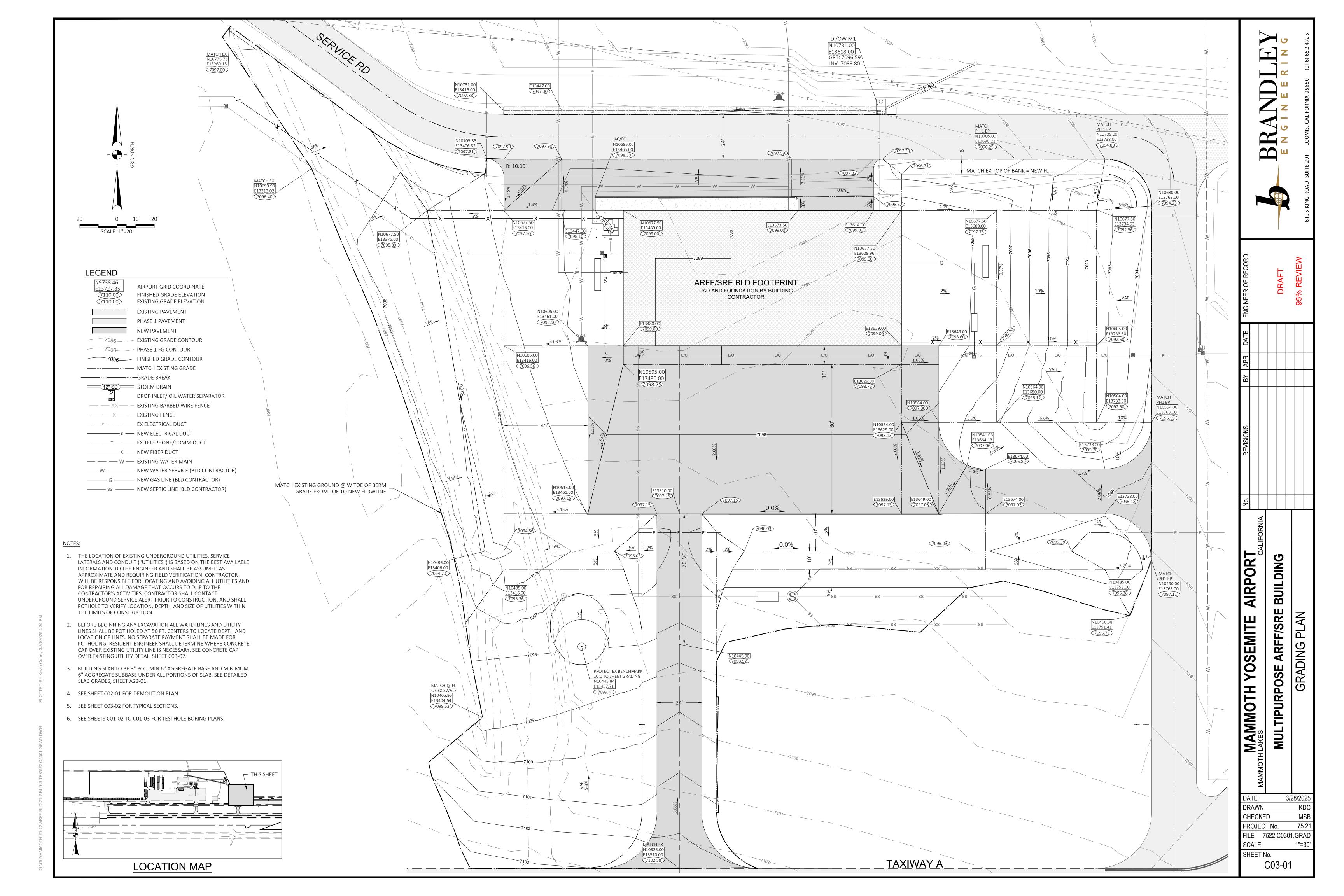


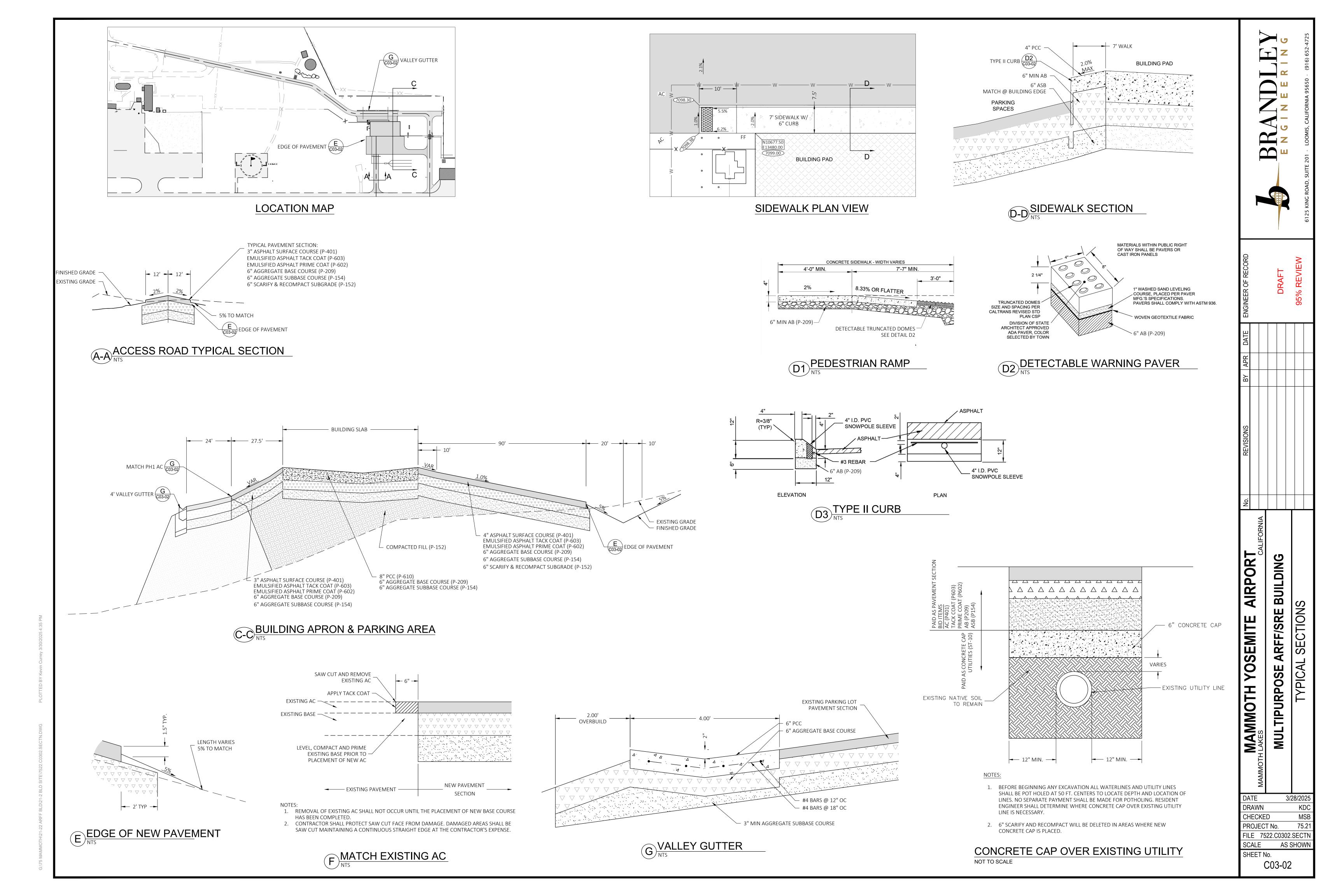


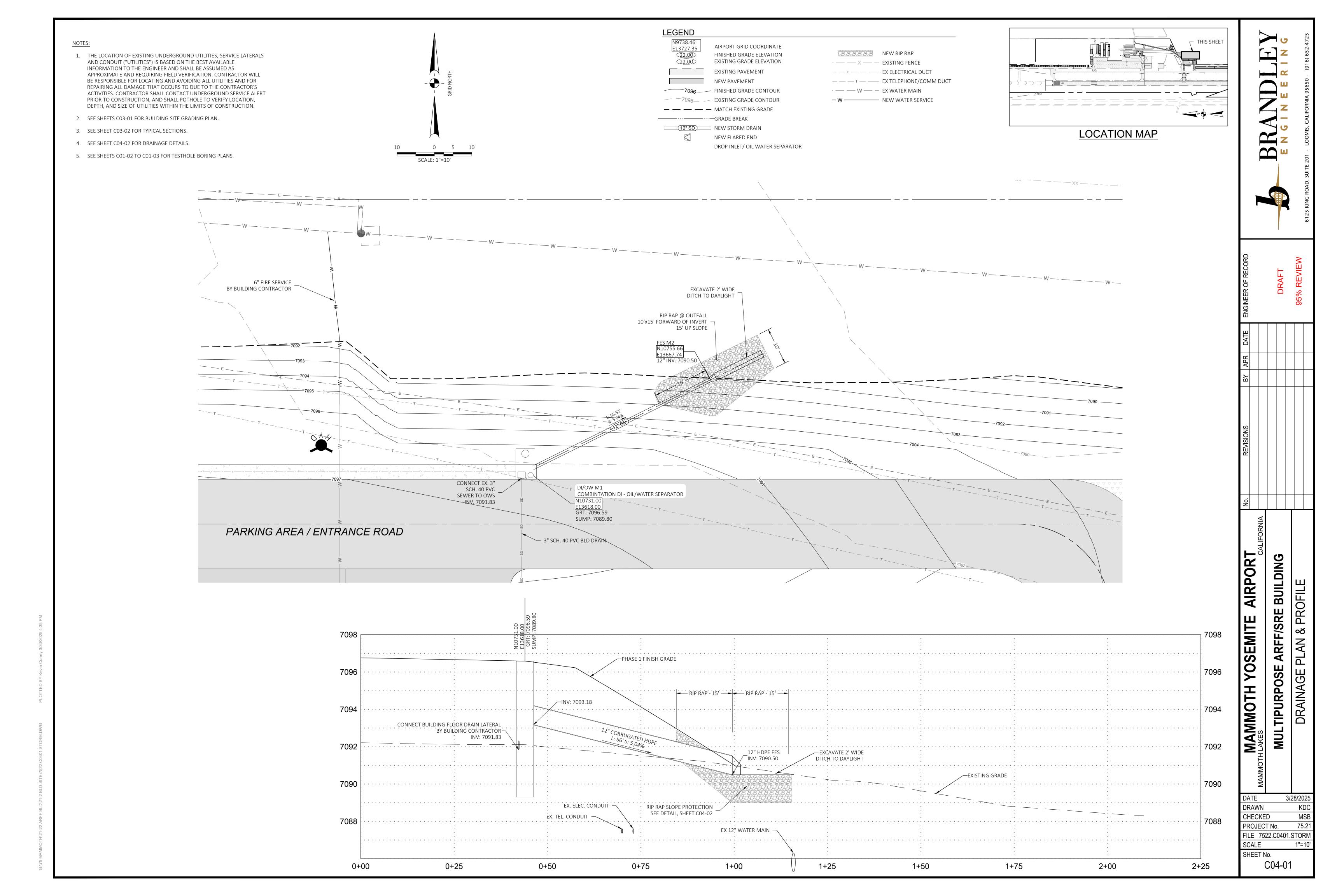


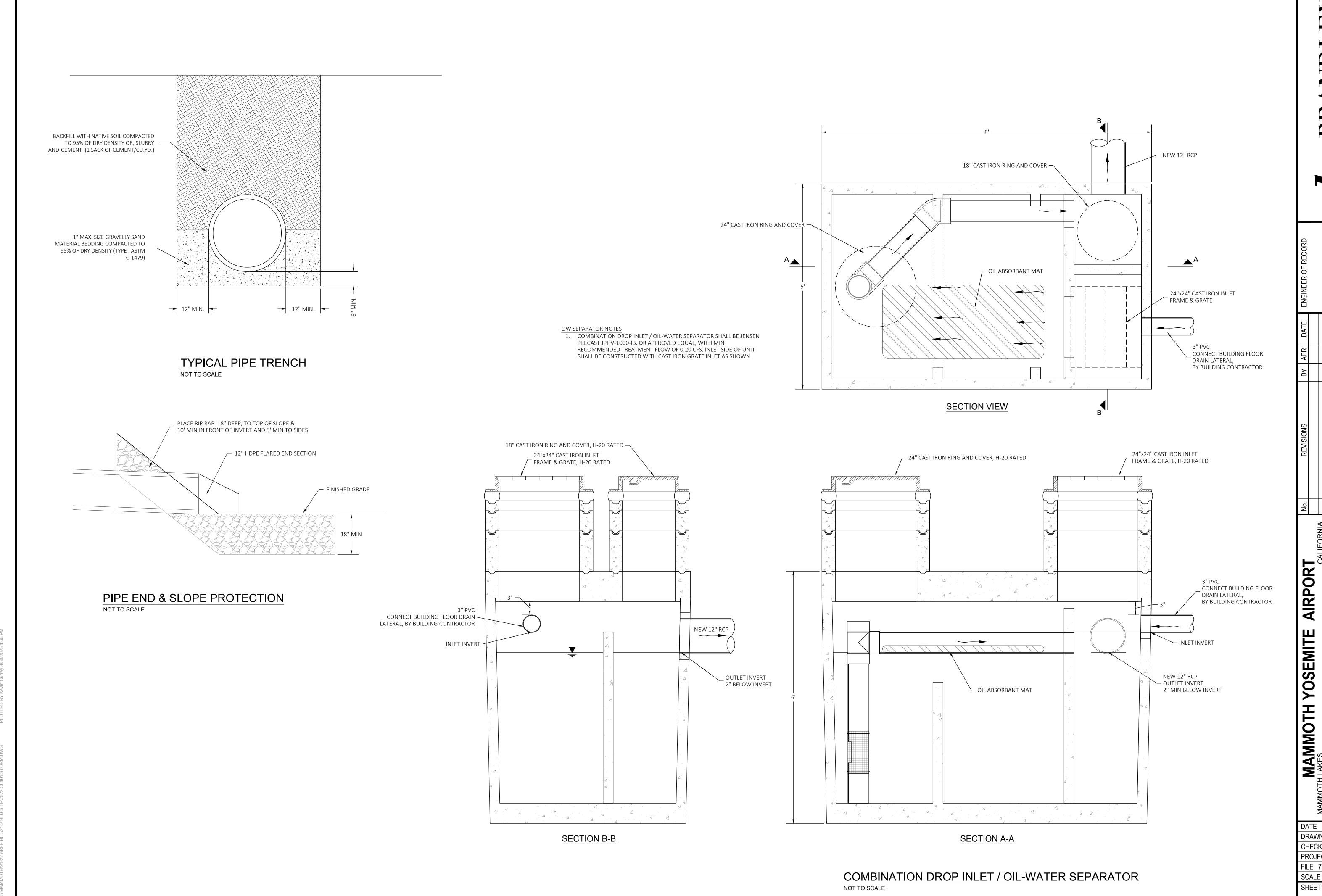
C01-03











3/28/2025 DRAWN CHECKED MSB PROJECT No. FILE 7522.C0401.STORM SCALE AS SHOWN

MULTIPURPOSE ARFF/SRE BUILDING
DRAINAGE DETAILS

SHEET No.

C04-02

1. CONCRETE SHALL BE IN CONFORMANCE WITH THE MOST RECENT VERSION OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CSS)SECTION 90.

2. PORTLAND CEMENT CONCRETE SHALL BE CLASS 1 IN ACCORDANCE WITH SECTION 90, " CONCRETE" OF THE CSS AND MIN 7.1 SACK TYPE II OR 1P CEMENT PER CUBIC YARD.

3. AGGREGATE USED FOR CONCRETE SHALL BE NON-REACTIVE OR TREATED IN AN APPROVED MANNER.

4. EXPOSED CONCRETE SHALL CONTAIN 5% ± 1.0% ENTRAINED AIR.

CONCRETE SHALL CONTAIN MIN 15% FLY ASH MAX 25%.

6. CONCRETE SHALL BE SEALED WITH A TOWN APPROVED SEALER.

7. FIBER MESH (POLYPROPYLENE) SHALL BE ADDED PER MANUFACTURER'S RECOMMENDATIONS TO ALL CONCRETE THAT HAS A WEARING SURFACE INCLUDING BUT NOT LIMITED TO CURB AND GUTTER, SIDEWALK, CROSSWALKS, EXPOSED UTILITY RIMS, VAULTS, VALLEY GUTTERS, AND AS SPECIFIED.

8. WEARING SURFACE COMPRESSIVE STRENGTH SHALL BE 5000 psi IN 28 DAYS OR AS APPROVED BY PUBLIC WORKS DIRECTOR. ALL OTHER CONCRETE SHALL BE MINIMUM 3600 psi IN 28 DAYS OR AS SPECIFIED ON PLANS.

9. CONCRETE SHALL BE TESTED FOR SLUMP & AIR FOR COMPLIANCE BEFORE THE PLACEMENT OF THE FIRST TRUCK LOAD AND EVERY 50 YARDS THERE AFTER OR AS DIRECTED BY ENGINEER. THE CONTRACTOR SHALL DOCUMENT THE RESULTS AND SUBMIT THESE AND JOB FIELD REPORTS TO THE TOWN ON A WEEKLY BASIS. IN THE EVENT THERE IS A TEST FAILURE, CORRECTIVE ACTIONS SHALL BE TAKEN TO REMEDY THE SITUATION AND THE ACTIONS DOCUMENTED. THE TOWN SHALL BE NOTIFIED IMMEDIATELY. CONCRETE CYLINDERS SHALL BE TAKEN MID LOAD AND EVERY 50 YARDS THEREAFTER.

10. COPIES OF THE BATCH TICKETS SHALL ACCOMPANY THE FIELD REPORTS AND TEST RESULTS.

B. CONCRETE BACKFILL SLURRY WITHIN TOWN RIGHT OF WAY SHALL MEET THE FOLLOWING REQUIREMENTS:

1. AGGREGATE USED SHALL HAVE A MINIMUM SAND EQUIVALENT (SE) OF 30.0

2. AT THE OPTION OF THE CONTRACTOR, AGGREGATE SHALL BE EITHER:

A. SELECTED MATERIAL WHICH IS FREE OF ORGANIC MATERIAL AND OTHER DELETERIOUS SUBSTANCES AND CONFORMS TO THE FOLLOWING GRADING REQUIREMENTS:

SIEVE SIZES	PERCENTAGE BY WEIGHT PASSING SIEVE
1 1/2 INCH	100
1 INCH	80 - 100
3/4 INCH	60 - 100
3/8 INCH	50 - 100
NO. 4	40 - 100
NO. 100	2 - 40
NO. 200	2 - 15

B. COMMERCIAL QUALITY CONCRETE SAND WHICH CONFORMS TO THE FOLLOWING GRADE REQUIREMENTS:

SIEVE SIZES	PERCENTAGE BY WEIGHT PASSING SIEVE
3/8 INCH	100
NO. 4	95 - 100
NO. 8	80 - 100
NO. 16	50 - 85
NO. 30	25 - 60
NO. 50	10 - 30
NO. 200	2 - 15

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

CONCRETE AND SLURRY STANDARDS

STANDARD PLAN

A. GENERAL CONSTRUCTION REQUIREMENTS WITHIN TOWN RIGHT OF WAY

- UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THESE STANDARDS. THE LATEST VERSION OF THE CALTRANS STANDARD SPECIFICATIONS (CSS), AND THE LATEST VERSION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- 2. WORK SHALL BE DONE IN CONFORMANCE WITH THE MOST RECENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. THE TOWN'S REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK.
- 4. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION, UNDERGROUND SERVICE ALERT (USA) SHALL BE NOTIFIED AT THE REGIONAL NOTIFICATION CENTER, WITH A REQUEST THAT LITHLITY OWNERS MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR FACILITIES. ALL APPROPRIATE UTILITY COMPANIES SHALL ALSO BE CONTACTED. UTILITIES SHALL BE POT HOLED AT CROSSINGS AND TIE-INS PRIOR TO EXCAVATION WORK. ALL MEASURES SHALL BE TAKEN TO PROTECT UTILITIES AND STRUCTURES FOUND AT THE SITE.

THE TOWN IS NOT PART OF U.S.A. DIG. CONTRACTOR SHALL CALL TOWN OF MAMMOTH LAKES PUBLIC WORKS DEPARTMENT AT 760-934-8989 FOR LOCATION OF TOWN FACILITIES.

- 5. PRIOR TO BEGINNING CONSTRUCTION ALL REQUIRED PERMITS MUST BE OBTAINED.
- 6. PRE CONSTRUCTION MEETINGS ARE REQUIRED BEFORE ANY WORK IS TO BEGIN, EXCEPT FOR THE IMPLEMENTATION OF THE EROSION CONTROL PLAN.
- 7. WORK IN TOWN OF MAMMOTH LAKES RIGHT OF WAY SHALL COMPLY WITH THE TERMS, CONDITIONS, AND REQUIREMENTS OF THE TOWN ENCROACHMENT PERMIT.
- 8. THE CONTRACTOR SHALL TAKE ALL SUCH MEASURES NECESSARY TO CONTROL DUST NUISANCE BY CLEANING, SWEEPING, AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE TOWN'S REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION. ALL EXPOSED SOIL SURFACES SHALL BE MOISTENED AS REQUIRED TO AVOID NUISANCE CONDITIONS AND INCONVENIENCES FOR LOCAL RESIDENTS AND TRAVELERS OF NEARBY ROADWAYS. SUFFICIENT WATER TRUCKS SHALL BE MADE AVAILABLE FOR DUST. CONTROL PURPOSES.
- 9. ANY EVIDENCE OF THE HISTORICAL PRESENCE OF MAN FOUND DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE MAMMOTH LAKES PUBLIC WORKS DEPARTMENT AND CONSTRUCTION SHALL STOP UNTIL FURTHER NOTICE
- 10. TREE REMOVAL SHALL BE PERFORMED BY A LICENSED TIMBER OPERATOR ONLY. TIMBER OPERATOR SHALL NOTIFY CALIFORNIA DEPARTMENT OF FORESTRY (714) 782-4140 PRIOR TO COMMENCING WORK. ALL TREE REMOVAL SHALL CONFORM TO THE APPROVED TIMBER HARVEST PLAN. IF REQUIRED. AND CALIFORNIA DEPARTMENT OF FORESTRY. STUMP SHALL BE TREATED WITH SODIUM BORATE WITHIN 8 HOURS OF BEING CUT TO PREVENT ROOT FUNGUS.
- 11. CONTRACTOR SHALL PROMPTLY CLEAN UP AREAS ADJACENT TO WORK OF ALL DEBRIS.

B. CONTROL OF WORK:

- 1. CONSTRUCTION SHALL BE LIMITED TO 7:00 AM TO 8:00 PM MONDAY THROUGH SATURDAY. OPERATIONS ON SUNDAYS, STATE AND FEDERAL HOLIDAYS, AND TOWN SPECIAL EVENTS ARE PERMITTED ONLY ON APPROVAL OF THE PUBLIC WORKS DIRECTOR AND LIMITED TO 9:00 AM TO 5:00 PM. A WRITTEN PERMIT IS REQUIRED FOR SUNDAY OR OFF HOURS WORK, PERMIT MUST BE LOCATED ON SITE AT ALL TIMES
- 2. THE LIMITS OF CONSTRUCTION SHALL BE CAREFULLY AND FULLY FLAGGED PRIOR TO START OF CONSTRUCTION, AND POSTED SO AS TO PREVENT DAMAGE TO VEGETATION AND DISTURBANCE TO SOILS OUTSIDE OF THE AREA OF CONSTRUCTION.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

GENERAL CONSTRUCTION REQUIREMENTS WITHIN **TOWN RIGHT OF WAY**

007-2 DATE: May 7, 2014 SHEET 1 OF 3

STANDARD PLAN

- A. THE AGGREGATE, CEMENT AND WATER SHALL BE PROPORTIONED BY WEIGHT. 188 POUNDS OF CEMENT (2 SACK) SHALL BE USED FOR EACH CUBIC YARD OF MATERIAL PRODUCED. THE WATER CONTENT SHALL BE SUFFICIENT TO PRODUCE A FLUID. WORKABLE MIX THAT WILL FLOW AND CAN BE PUMPED WITHOUT SEGREGATION OF THE AGGREGATE WHILE BEING PLACED. STRUCTURAL CONCRETE SHALL NOT BE USED.
- B. MATERIALS FOR TRENCH SLURRY BACKFILL SHALL BE THOROUGHLY MACHINE MIXED IN A PUG MILL, ROTARY DRUM, OR OTHER APPROVED MIXER. MIXING SHALL CONTINUE UNTIL THE CEMENT AND WATER ARE THOROUGHLY DISPERSED THROUGHOUT THE MATERIAL. TRENCH SLURRY BACKFILL SHALL BE PLACED WITHIN ONE HOUR AFTER MIXING OR IT SHALL BE REJECTED.

4. COMPRESSIVE STRENGTH:

- A. 100 PSI IN 28 DAYS.
- B. NO LABORATORY TESTS ARE REQUIRED IF THE CONTRACTOR USES CONCRETE SAND AS AGGREGATE. CONTRACTOR WILL BE REQUIRED TO SUBMIT MIX DESIGN PRIOR TO PLACEMENT. THE INSPECTOR WILL USE THE BATCH TICKET AS PROOF OF THE SACK MIX. IF REQUIRED, OCCASIONAL COMPRESSIVE STRENGTH TESTS AND AGGREGATE GRADATIONS MAY BE PERFORMED.
- C. STRUCTURAL CONCRETE SHALL NOT BE USED AS SLURRY BACKFILL.

PLACING

A. SLURRY SHALL BE PLACED AND VIBRATED BY MECHANICAL MEANS.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

CONCRETE AND SLURRY STANDARDS

DATE: May 7, 2014 SHEET 2 OF 2

STANDARD PLAN

3. THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC. CONVENIENT ACCESS TO DRIVEWAYS. HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION. NO MORE THAN ONE CROSSING OR INTERSECTION STREET OR ROAD SHALL BE CLOSED AT ANY ONE TIME. ACCESS TO BUSINESSES AND RESIDENCES SHALL BE MAINTAINED AT ALL TIMES.

- 1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE FEDERAL, AND OTHER LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS MAY INCLUDE THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT
- 2. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN ACCORDANCE WITH THE TOWN OF MAMMOTH LAKES ORDINANCES AND STANDARDS AND IN CONFORMANCE OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL
- 3. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GENERAL OSHA STANDARDS FOR THE PROTECTION OF WORKMEN AND THE GENERAL PUBLIC. OSHA PERMITS ARE REQUIRED FOR TRENCHES OVER 5 FEET DEEP. A WORKER PROTECTION PLAN SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE TOWN FOR APPROVAL FOR ALL EXCAVATIONS GREATER THEN 4 FEET
- 4. ALL OPERATIONS INVOLVING THE STORAGE AND HANDLING OF EXPLOSIVES SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF DIVISION II, PART I, OF THE CALIFORNIA HEALTH AND SAFETY CODE AND ALL OTHER APPLICABLE FEDERAL STATE COUNTY AND LOCAL CODES AND REGULATIONS. DRILLING AND BLASTING SHALL ONLY BE DONE UNDER THE DIRECTION OF LICENSED PERSONNEL. ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY SHALL BE TAKEN DURING BLASTING OPERATIONS AND ADEQUATE WARNING SHALL BE GIVEN TO WORKERS, INSPECTORS, AND PROPERTY OWNERS THAT BLASTING IS IN PROGRESS. THE TOWN SHALL BE NOTIFIED PRIOR TO ANY BLASTING.

EXECUTION:

- 1. ALL CUT AND FILL SLOPES SHALL BE REVEGETATED AND/OR LANDSCAPED TO PREVENT EROSION.
- 2. CUT AND FILL SLOPES SHALL NOT EXCEED A STEEPNESS OF 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL), UNLESS OTHERWISE NOTED, AND SHALL BE REVEGETATED TO CONTROL EROSION. STOCKPILED TOPSOIL WILL BE SPREAD EVENLY TO A DEPTH OF 4 INCHES MINIMUM OVER SLOPES AND DISTURBED AREAS, THEN LANDSCAPED OR SEEDED TO PREVENT EROSION WITH THE SEED MIXTURE INDICATED IN SECTION 20, "LANDSCAPE" OF THE CSS OR AS SUPPLIED BY THE TOWN. SEEDED SLOPES SHALL BE STABILIZED BY INSTALLATION OF AN EROSION CONTROL BLANKET, "NORTH AMERICAN GREEN SC150", GEOTEXTILES, JUTE MATTING OR APPROVED EQUAL, SECURED PER MANUFACTURES RECOMMENDATIONS.
- 3. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO PUBLIC STREET, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS, OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE TOWN'S REPRESENTATIVE. ALL IMPROVEMENTS REMOVED AS A COURSE OF WORK SHALL BE REPLACED AS APPROVED BY THE OWNER AND TOWN REPRESENTATIVE.

MATERIALS

- I. SIGNS SHALL BE DESIGNED, SUPPLIED AND INSTALLED IN CONFORMANCE WITH THE STATE OF CALIFORNIA -DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, STANDARDS AND SPECIFICATIONS
- 2. SIGN POSTS SHALL BE DESIGNED, SUPPLIED AND INSTALLED IN CONFORMANCE WITH THE STATE OF CALIFORNIA -
- DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, STANDARDS, AND SPECIFICATIONS
- 3. INSTALLATION OF TRAFFIC STRIPES AND PAVEMENT MARKINGS WILL BE IN CONFORMANCE WITH THE PROVISIONS OF SECTION 84, "TRAFFIC STRIPES AND PAVEMENT MARKINGS", OF THE CSS. DESIGN OF TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN MANUAL.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

GENERAL CONSTRUCTION REQUIREMENTS WITHIN TOWN RIGHT OF WAY

007-2 DATE: May 7, 2014 SHEET 2 OF 3

STANDARD PLAN

A. SPECIFICATIONS FOR BACKFILL AND DENSIFICATION

WHERE SPECIFIC RECOMMENDATIONS HAVE NOT BEEN PREPARED BY A GEOTECHNICAL INVESTIGATION THE FOLLOWING SHALL APPLY:

BACKFILL SHALL BE CONSIDERED AS STARTING ONE FOOT ABOVE THE PIPE OR CONDUIT. OR AT THE TOP OF CONCRETE BEDDING OVER THE PIPE OR CONDUIT. ALL MATERIAL BELOW THIS POINT SHALL BE CONSIDERED BEDDING. ROCKS GREATER THAN 3 INCHES IN ANY DIMENSION WILL NOT BE PERMITTED IN THE BACKFILL PLACED ABOVE ANY PIPE OR BOX WHEREVER THE TRENCH WIDTH IS 4 FEET OR NARROWER WHEREVER TRENCH WIDTHS ARE GREATER THAN 4 FEET. ROCKS LARGER THAN 3 INCHES BUT LESS THAN 12 INCHES IN ANY DIMENSION WILL BE PERMITTED AS BACKFILL NO CLOSER THAN 2 FEET FROM THE TOP OF PIPE OR BOX AND 2 FEET BELOW FINISHED PAVEMENT SUB GRADE OR WITHIN 2 FEET OF RISERS, VALVES, MANHOLES, OR OTHER STRUCTURES, PROVIDING THE FOLLOWING CONDITIONS ARE MET:

- BACKFILL MATERIALS SHALL BE SCREENED OR "GRIZZLED" PRIOR TO BEING USED AS BACKFILL.
- 2. ROCKS SHALL BE MIXED WITH SUFFICIENT VOLUME OF SUITABLE SOIL SO AS TO ELIMINATE
- NESTING OF ROCK AND VOIDS.
- 3. TRENCHES SHALL BE AT LEAST 4 FEET WIDE IF A COMPACTOR ON THE END OF A TRACK EXCAVATOR BOOM IS UTILIZED, OR AT LEAST 8 FEET WIDE IF A FULL SIZED ROLLER IS USED. A FULL SIZED ROLLER SHALL CONSIST OF A SHEEPSFOOT OR DRUM ROLLER HAVING METAL DRUMS OR SHELLS NOT LESS THAN 4 FEET IN DIAMETER. HAND TAMPING COMPACTORS OR ROLLERS WILL BE USED TO OBTAIN COMPACTION WITHIN 2 FEET OF RISERS, VALVES, MANHOLES, OR OTHER STRUCTURES. AND WILL ASSIST IN OBTAINING COMPACTION ALONG EDGES OF TRENCHES. HOWEVER, THEY WILL NOT BE PERMITTED TO BE USED IN LIEU OF THE EQUIPMENT SPECIFIED IF ROCK LARGER THAN 3 INCHES IN ANY DIMENSION IS USED AS BACKFILL.
- 4 THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER AND THE TESTING AGENCY THAT ADEQUATE COMPACTION CAN BE OBTAINED WITH THE MATERIALS, EQUIPMENT, AND PROCEDURES TO BE USED.
- 5. THE LOOSE THICKNESS OF EACH LAYER OF EMBANKMENT MATERIAL BEFORE COMPACTION SHALL NOT EXCEED 8 INCHES FOR HAND TAMPERS AND 12 INCHES FOR ROLLER COMPACTORS.
- 6. IF, IN THE OPINION OF THE ENGINEER AND/OR TESTING AGENCY, THE BACKFILL SOILS CANNOT BE SATISFACTORILY TESTED TO DETERMINE IF COMPACTION CRITERIA IS MET, THE TESTING AGENCY OR ENGINEER, MAY AT THEIR OPTION REQUEST THE CONTRACTOR TO MODIFY HIS MATERIALS AND PROCEDURES SO THE TESTING CAN BE PERFORMED OR MAY USE A METHOD SPECIFICATION BASED ON THE EQUIPMENT AND MATERIALS BEING USED TO VERIFY THAT THE ADEQUATE COMPACTION IS OBTAINED.
- 7. CONSTRUCTION SHALL NOT BE PERFORMED WHEN MATERIAL IS FROZEN OR A BLANKET OF SNOW PREVENTS PROPER COMPACTION

ALL BACKFILL MATERIALS SHALL BE COMPACTED IN 8" MAXIMUM LIFTS TO 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557-CURRENT EDITION. IN PLACE DENSITY SHALL BE TESTED AND CONFIRMED USING ASTM TEST METHOD D 6938.

B. MASS GRADING BACKFILL AND DENSIFICATION

- 1. ROCKS LARGER THAN 12 INCHES IN ANY DIMENSION SHALL NOT BE PERMITTED WITHOUT AUTHORIZATION OF THE ENGINEER AND ONLY AFTER A SATISFACTORY METHOD OF OBTAINING ADEQUATE COMPACTION HAS BEEN DEVELOPED AND AGREED TO.
- 2. WHERE ROCKS ARE USED IN THE BACKFILL, THEY SHALL BE MIXED WITH SUITABLE EXCAVATED MATERIALS SO AS TO ELIMINATE VOIDS.
- 3. AFTER PLACING OF BACKFILL HAS STARTED. THE CONTRACTOR SHALL PROCEED AS SOON AS PRACTICABLE WITH DENSIFICATION. ALL BACKFILL MATERIALS SHALL BE COMPACTED IN 8" MAXIMUM LIFTS TO 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557-CURRENT EDITION. IN PLACE DENSITY SHALL BE TESTED AND CONFIRMED USING ASTM TEST METHOD D 6938. BACKFILL IN NON-STRUCTURAL AREAS SHALL BE DENSIFIED TO AT LEAST 85% OF THE MATERIALS MAXIMUM DRY DENSITY.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

BACKFILL STANDARDS

SHEET 1 OF 2

STANDARD PLAN

1. CONTRACTOR SHALL NOTIFY THE TOWN OF MAMMOTH LAKES PUBLIC WORKS INSPECTOR AT (760) 934-2534, 48 HOURS IN ADVANCE FOR THE INSPECTION OF THE FOLLOWING:

-TRAFFIC CONTROL -CONCRETE FORMS -CONCRETE PLACEMENT -REBAR PLACEMENT

-FINAL GRADE - BASE COURSE -LIGHT POLE FOOTINGS AND ANCHOR BOLTS PRIOR TO CONCRETE POUR -HEATING TUBING IN SIDEWALKS PRIOR TO CONCRETE POUR OR INSTALLATION OF PAVERS -UTILITY INSTALLATIONS PRIOR TO BACKFILL -ADDITIONAL ITEMS AS DETERMINED BY TOWN

2. SOILS TESTING SHALL BE PERFORMED BY A STATE APPROVED INDEPENDENT TESTING LABORATORY. SHOULD ANY COMPACTION TEST FAIL TO MEET THE MINIMUM REQUIRED DENSITY AS SPECIFIED ON THE PLANS OR IN THE GEOTECHNICAL REPORT. THE DEFICIENCY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE SOILS ENGINEER. THE EXPENSE OF RETESTING SUCH AN AREA SHALL BE BORN BY THE CONTRACTOR, AT NO COST TO THE OWNER.

ENGINEERING CERTIFICATION:

-SUBGRADE

- ALL IMPROVEMENT PLANS AND THE SPECIFIC DETAILS AND SPECIFICATIONS THEREOF SHALL BE PREPARED BY. OR UNDER THE DIRECTION OF, AND SIGNED BY, A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF MAMMOTH LAKES PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION OF THE IMPROVEMENTS. IT IS RECOGNIZED THAT THERE MAY BE SITUATIONS WHERE THESE STANDARDS CANNOT BE REASONABLY APPLIED OR SITUATIONS NOT ADDRESSED HEREIN. IN EITHER CASE, IT SHALL BE THE SOLE RESPONSIBILITY OF THE PUBLIC WORKS DIRECTOR TO EXERCISE SOUND ENGINEERING JUDGMENT IN APPROVING ALTERNATE PROPOSALS IN THESE SITUATIONS.
- SHOP DRAWINGS AND SUBMITTALS

1. SHOP DRAWING SUBMITTALS SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR AT LEAST 5 DAYS PRIOR TO MATERIAL USE FOR THE FOLLOWING: -CLASS II BASE -CONCRETE

-ASPHALT PAVING / (JMF) HMA DESIGN -STREET LIGHTS, (SUGGESTED BEFORE ORDERING LIGHTS) -ELECTRICAL

-DRAINAGE COMPONENTS SIGNAGE

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

Uammoth Lakes

GENERAL CONSTRUCTION REQUIREMENTS WITHIN **TOWN RIGHT OF WAY**

007-2 DATE: May 7, 2014 SHEET 3 OF 3

STANDARD PLAN

C. SPECIFICATIONS FOR TRENCH SLURRY BACKFILL:

- 1. TRENCH SLURRY BACKFILL SHALL CONSIST OF A FLUID, WORKABLE MIXTURE OF
- AGGREGATE, 2-SACK CEMENT AND WATER. 2. AT THE OPTION OF THE CONTRACTOR, TRENCH SLURRY BACKFILL MAY BE USED AS A STRUCTURAL BACKFILL FOR PIPE, EXCEPT THAT TRENCH SLURRY BACKFILL SHALL NOT BE
- USED AS STRUCTURAL BACKFILL FOR ALUMINUM OR ALUMINUM COATED PIPE. 3. WHEN TRENCH SLURRY BACKFILL IS USED FOR STRUCTURAL BACKFILL, THE WIDTH OF THE EXCAVATION SHOWN ON THE PLANS MAY BE REDUCED SO THAT THE SIDE CLEAR DISTANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE SIDE OF THE EXCAVATION ON EACH SIDE OF THE PIPE. IS A MINIMUM OF 6 INCHES FOR PIPES UP TO AND INCLUDING 42
- 4 TRENCH SLURRY BACKFILL SHALL BE PLACED ONLY FOR THE PORTION OF THE STRUCTURAL BACKFILL BELOW THE ORIGINAL GROUND. THE GRADING PLANE OR THE TOP OF EMBANKMENT PLACED PRIOR TO EXCAVATING FOR THE PIPE. WHERE NECESSARY, EARTH PLUGS SHALL BE COMPACTED AS REQUIRED AT EACH END OF THE PIPE PRIOR TO PLACING BACKFILL IN A MANNER THAT WILL COMPLETELY CONTAIN THE SLURRY IN THE

INCHES IN DIAMETER OR SPAN, ONE FOOT FOR PIPES OVER 42 INCHES IN DIAMETER OR

- 5. TRENCH SLURRY BACKFILL SHALL BE PLACED IN A UNIFORM MANNER THAT WILL PREVENT VOIDS IN, OR SEGREGATION OF, THE BACKFILL, AND WILL NOT FLOAT OR SHIFT THE PIPE. FOREIGN MATERIAL WHICH FALLS INTO THE TRENCH PRIOR TO OR DURING PLACING OF THE TRENCH SLURRY BACKFILL SHALL BE IMMEDIATELY REMOVED.
- 6. BACKFILLING OR PLACING ANY MATERIAL OVER TRENCH SLURRY BACKFILL SHALL NOT COMMENCE UNTIL AT LEAST FOUR HOURS AFTER THE TRENCH SLURRY BACKFILL HAS BEEN PLACED, EXCEPT THAT WHEN CONCRETE SAND IS USED FOR THE AGGREGATE AND THE IN-PLACE MATERIAL IS FREE DRAINING. BACKFILLING MAY COMMENCE AS SOON AS THE SURFACE WATER IS GONE. TRENCH SLURRY BACKELL MAY BE USED AS A SUBSTITUTE FOR AGGREGATE BASE WHEN APPROVED IN ADVANCE BY THE PUBLIC WORKS DIRECTOR.

STANDARD PLAN BACKFILL STANDARDS PUBLIC WORKS Mammoth Lakes DATE: May 7, 2014 SHEET 2 OF 2

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

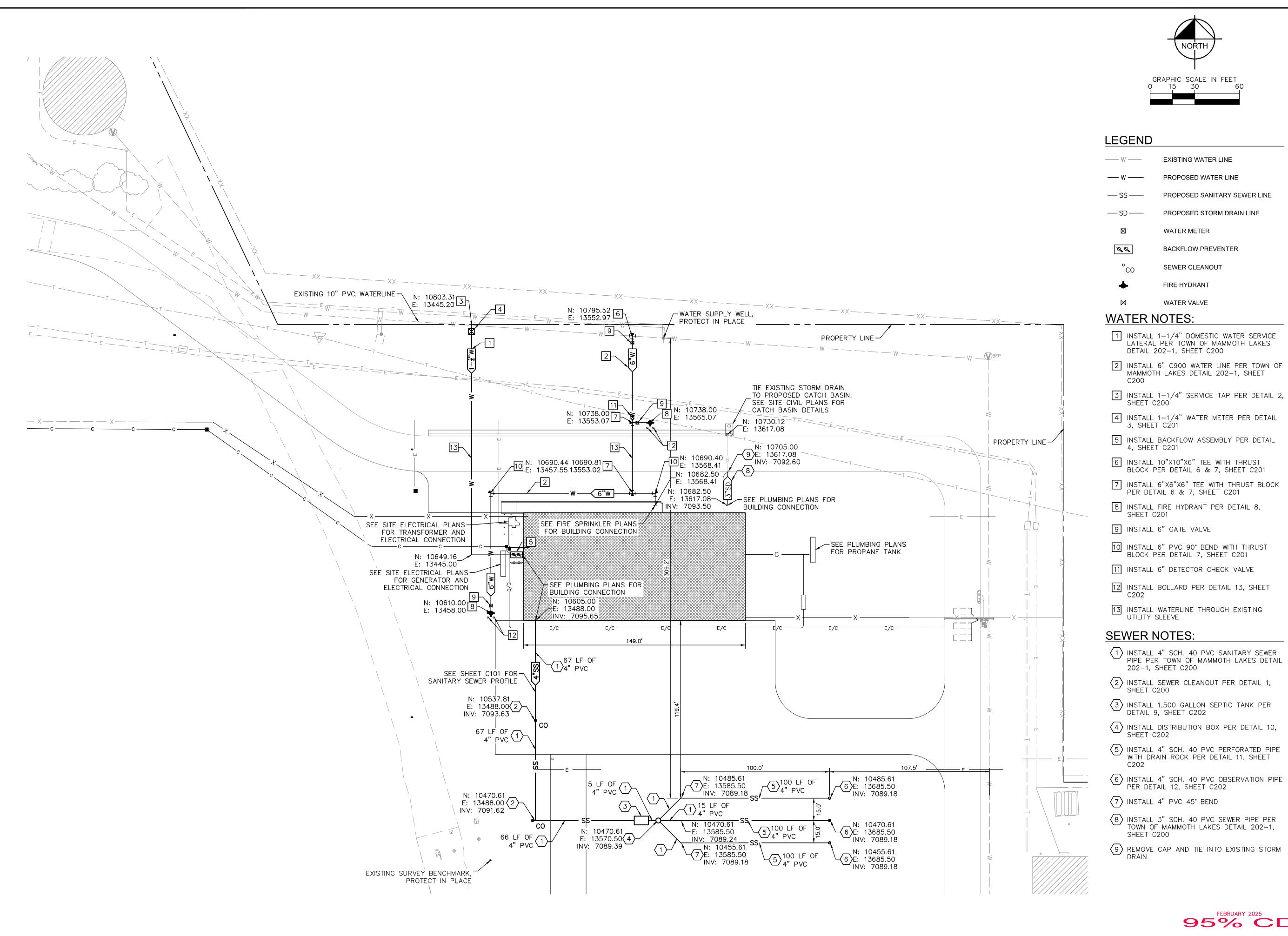
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C05-02



EXISTING WATER LINE

PROPOSED WATER LINE

PROPOSED SANITARY SEWER LINE

PROPOSED STORM DRAIN LINE

WATER METER

BACKFLOW PREVENTER

SEWER CLEANOUT

FIRE HYDRANT

WATER VALVE

- 1 INSTALL 1-1/4" DOMESTIC WATER SERVICE LATERAL PER TOWN OF MAMMOTH LAKES DETAIL 202-1, SHEET C200
- 2 INSTALL 6" C900 WATER LINE PER TOWN OF MAMMOTH LAKES DETAIL 202-1, SHEET
- SHEET C200 4 INSTALL 1-1/4" WATER METER PER DETAIL
- 5 INSTALL BACKFLOW ASSEMBLY PER DETAIL
- 6 INSTALL 10"X10"X6" TEE WITH THRUST BLOCK PER DETAIL 6 & 7, SHEET C201
- 7 INSTALL 6"X6"X6" TEE WITH THRUST BLOCK
- PER DETAIL 6 & 7, SHEET C201
- 8 INSTALL FIRE HYDRANT PER DETAIL 8, SHEET C201
- 9 INSTALL 6" GATE VALVE
- 10 INSTALL 6" PVC 90° BEND WITH THRUST BLOCK PER DETAIL 7, SHEET C201
- 11 INSTALL 6" DETECTOR CHECK VALVE
- 12 INSTALL BOLLARD PER DETAIL 13, SHEET C202
- 13 INSTALL WATERLINE THROUGH EXISTING UTILITY SLEEVE

SEWER NOTES:

- 1) INSTALL 4" SCH. 40 PVC SANITARY SEWER PIPE PER TOWN OF MAMMOTH LAKES DETAIL 202-1, SHEET C200
- (2) INSTALL SEWER CLEANOUT PER DETAIL 1, SHEET C200
- 3 INSTALL 1,500 GALLON SEPTIC TANK PER DETAIL 9, SHEET C202
- 4 INSTALL DISTRIBUTION BOX PER DETAIL 10,
- 5) INSTALL 4" SCH. 40 PVC PERFORATED PIPE WITH DRAIN ROCK PER DETAIL 11, SHEET
- 6 INSTALL 4" SCH. 40 PVC OBSERVATION PIPE PER DETAIL 12, SHEET C202
- (7) INSTALL 4" PVC 45° BEND
- 8 INSTALL 3" SCH. 40 PVC SEWER PIPE PER TOWN OF MAMMOTH LAKES DETAIL 202-1, SHEET C200
- 9 REMOVE CAP AND TIE INTO EXISTING STORM DRAIN

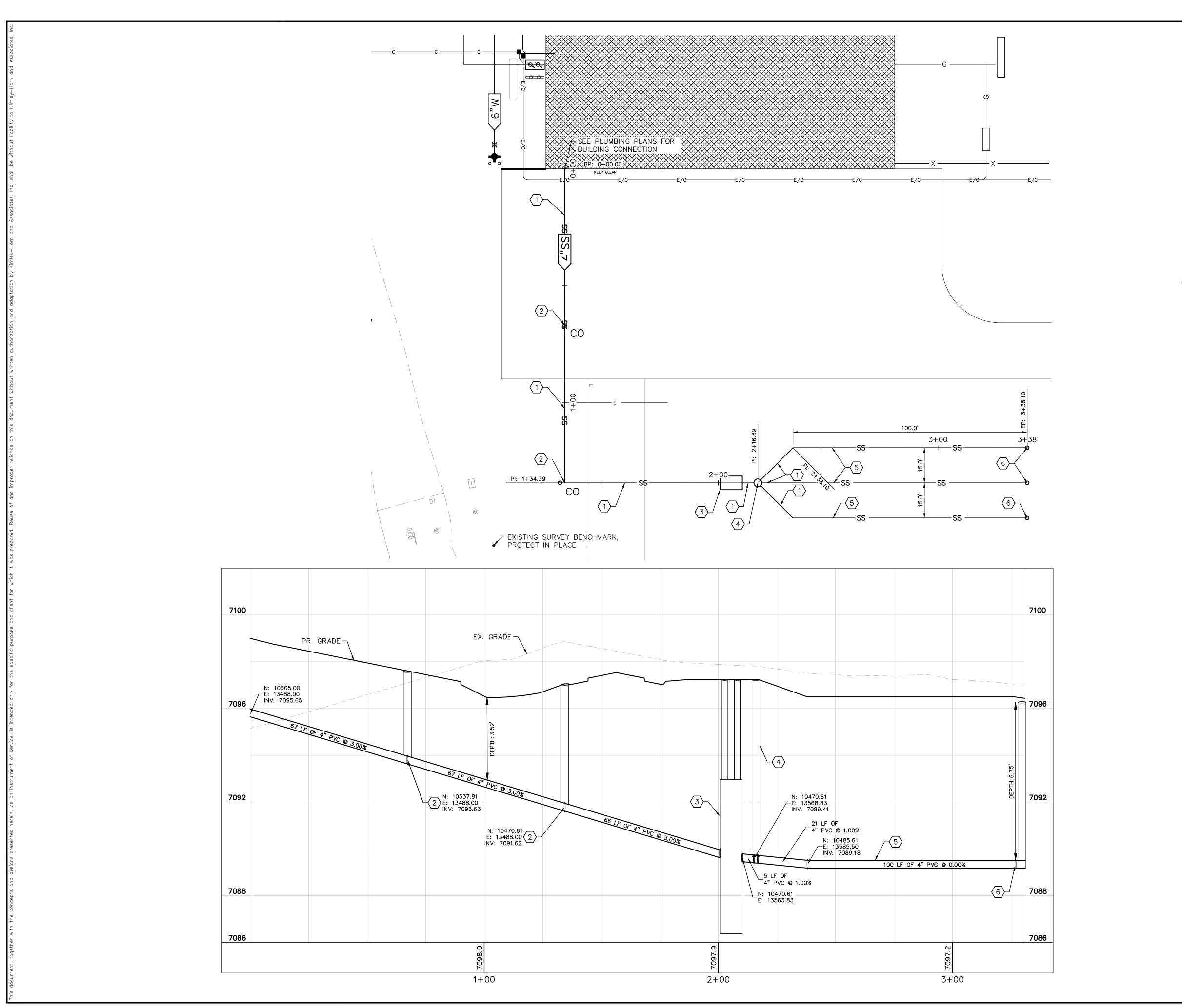
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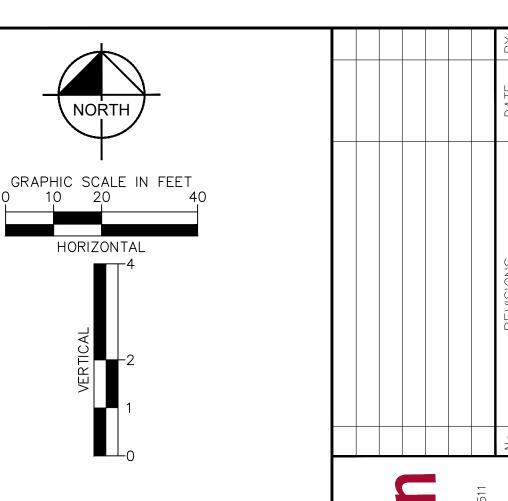
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MULTIPURPOSE BUILDING 'INCLUDE ARFF AND SRECOMPONENTS MAMMOTH

YOSEMITE AIRPORT

SHEET NUMBER C05-03





SEWER NOTES:

- 1) INSTALL 4" SCH. 40 PVC SANITARY SEWER PIPE PER TOWN OF MAMMOTH LAKES DETAIL 202-1, SHEET C200
- (3) INSTALL 1,500 GALLON SEPTIC TANK PER DETAIL 9, SHEET C202
- (4) INSTALL DISTRIBUTION BOX PER DETAIL 10, SHEET C202
- (5) INSTALL 4" SCH. 40 PVC PERFORATED PIPE WITH DRAIN ROCK PER DETAIL 11, SHEET

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2 INSTALL SEWER CLEANOUT PER DETAIL 1, SHEET C200

6 INSTALL 4" SCH. 40 PVC OBSERVATION PIPE PER DETAIL 12, SHEET C202

SANITARY SEWER PLAN & PROFILE

MULTIPURPOSE BUILDING TO INCLUDE ARFF AND SRE COMPONENTS MAMMOTH YOSEMITE AIRPORT

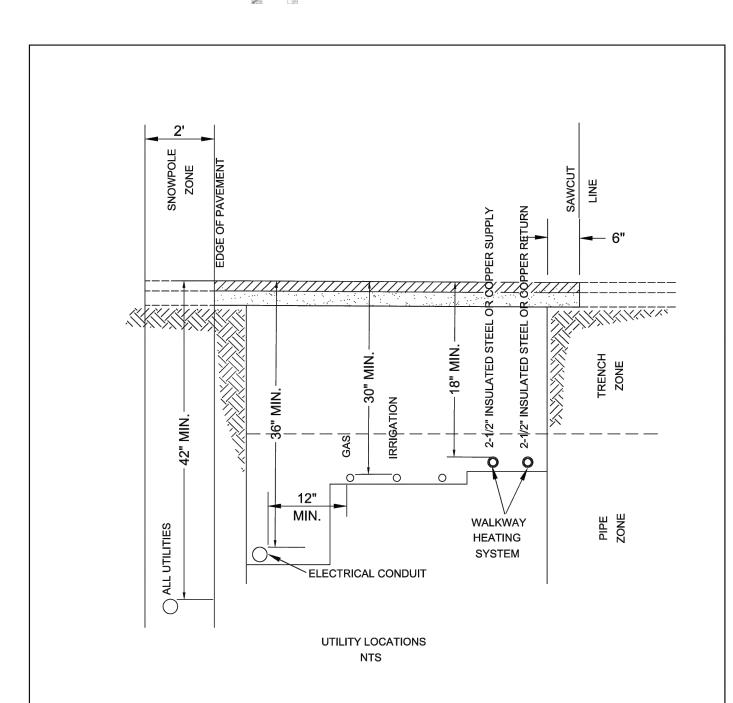
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C05-04 SHEET 4 OF 7

- 1. AGGREGATE BASE SHALL BE CBE PER TOWN STANDARD, AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR
- 2. ASPHALT CONCRETE SHALL BE PER TOWN STANDARD, AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR
- 3. CORRUGATED METAL PIPE CULVERTS SHALL CONFORM TO THE PROVISIONS IN SECTION 66. "CORRUGATED METAL PIPE", OF THE CSS AND SHALL BE 12 GAGE. CORRUGATED STEEL FLARED END SECTIONS SHALL CONFORM TO THE PROVISIONS IN SECTION 75, "MISCELLANEOUS METAL", AND SECTION 70, MISCELLANEOUS DRAINAGE FACILITIES" OF THE CSS.
- 4. PLASTIC PIPE CULVERTS SHALL CONFORM TO THE PROVISIONS IN SECTION 64, "PLASTIC PIPE" OF THE CSS.
- 5. SLURRY CEMENT BACKFILL SHALL CONFORM TO TOWN STANDARDS 005-0 AND AS APPROVED BY THE PUBLIC
- 6. CONCRETE SHALL BE PER TOWN STANDARD 004-0, AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR.
- 7. INSTALLATION OF TRAFFIC STRIPES AND PAVEMENT MARKINGS WILL BE IN CONFORMANCE WITH THE PROVISIONS OF SECTION 84, "TRAFFIC STRIPES AND PAVEMENT MARKINGS", OF THE CSS.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN **GENERAL REFERENCES UTILITIES** 200-2 Mammoth Lakes PUBLIC WORKS DIRECTOR APPROVAL: DATE: May 7, 2014 SHEET 1 OF 1



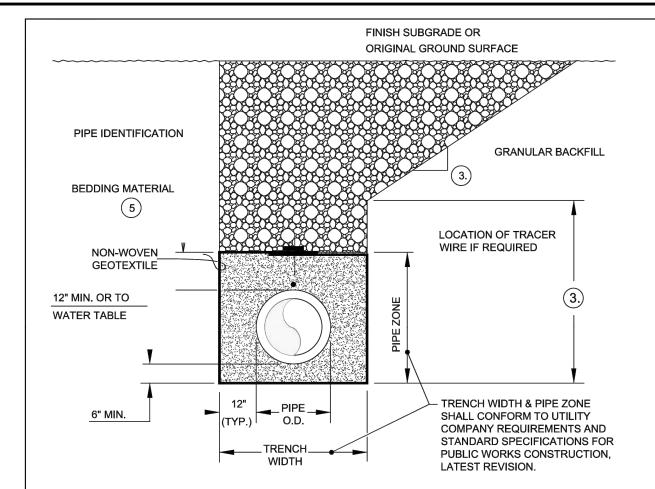
GENERAL NOTES FOR UTILITY LOCATIONS

- FOREIGN OBJECTS OR DEBRIS ARE NOT PERMITTED IN COMPLETED TRENCH.
- NO ROCKS ARE ALLOWED WITHIN 12 INCHES OF DIRECT BURIED CABLES OR ANY DUCT WITHOUT CONCRETE ENCASEMENT. NATIVE BACKFILL CAPABLE OF PASSING THROUGH A 1/2 INCH MESH SCREEN SHALL BE CONSIDERED TO
- ALL BACKFILL SHALL PASS THROUGH A 1/2 INCH SCREEN, OR PLACE IMPORTED SAND 3 INCHES BELOW AND 6 INCHES ABOVE BURIED CABLES (PIPE ZONE).
- 4. ALL NON-METALIC PIPES SHALL HAVE WIRE AND TAPE.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

UTILITY LOCATIONS DATE: May 7, 2014

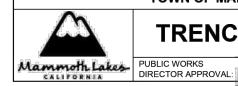
STANDARD PLAN 203-1 SHEET 1 OF 2



A PERMIT MUST BE OBTAINED FROM THE PUBLIC WORKS DIRECTOR PRIOR TO COMMENCING WORK WITHIN ANY PUBLIC RIGHT-OF-WAY. 24 HOURS PRIOR TO TRENCH EXCAVATION, THE PERMITEE MUST NOTIFY THE TOWN PUBLIC

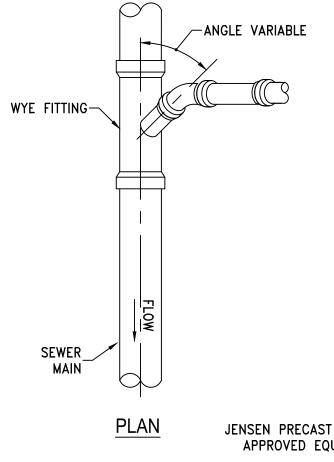
- 2. UNDERGROUND SERVICE ALERT AND TOWN OF MAMMOTH LAKES (760-934-BLDG) SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO START OF WORK.
- 3. DEPTH, BENCHING, SLOPE, SHORING, ETC. SHALL COMPLY WITH ALL CURRENT O.S.H.A. AND CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS STANDARDS AND REGULATIONS. A PLAN SHALL BE SUBMITTED FOR ALL TRENCHES OVER 4 FEET IN DEPTH.
- 4. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH TOWN OF MAMMOTH LAKES REQUIREMENTS OR STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST REVISION, BEDDING MATERIAL SHALL CONFORM TO OWNING UTILITY REQUIREMENTS AS APPROVED BY THE TOWN OF MAMMOTH LAKES. FOR TOWN OWNED UTILITIES, BEDDING MATERIAL SHALL BE 3/4 INCH CLEAN CRUSHED AGGREGATE BELOW SPRING LINE AND APPROVED SCREENED 3 INCH MINUS BETWEEN SPRING LINE BOTTOM OF BACKFILL. FOR TRAFFIC/ELECTRICAL CONDUIT TRENCHES LESS THAN 12 INCHES IN WIDTH, INCLUDING VERMEER TRENCHES. BEDDING SHALL BE 3/4 INCH CLEAN CRUSHED AGGREGATE, CEMENT SLURRY BEDDING /BACK FILL MAY BE USED AS AN ALTERNATE MATERIAL WITH WRITTEN APPROVAL FROM THE PUBLIC WORKS DIRECTOR FOR EACH SPECIFIC
- 5. WATER DENSIFIED BACK FILL AND TUNNELING IS NOT PERMITTED UNDER ANY CIRCUMSTANCES.
- 6. SEE STANDARD DETAIL NO. 005 FOR TRENCH BACK FILL SPECIFICATIONS.
- 7. PIPE TAPE IDENTIFICATION OF UTILITY SHALL BE INSTALLED DIRECTLY OVER CENTERLINE OF THE UTILITY.
- 8. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION THE CALTRANS TRAFFIC MANUAL CHAPTER 5. TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, LATEST EDITION.

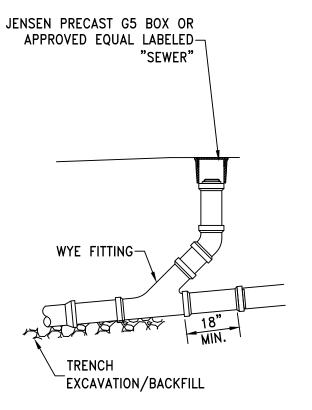
TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



STANDARD PLAN TRENCH EXCAVATION / BACKFILL 202-1 SHEET 1 OF 2

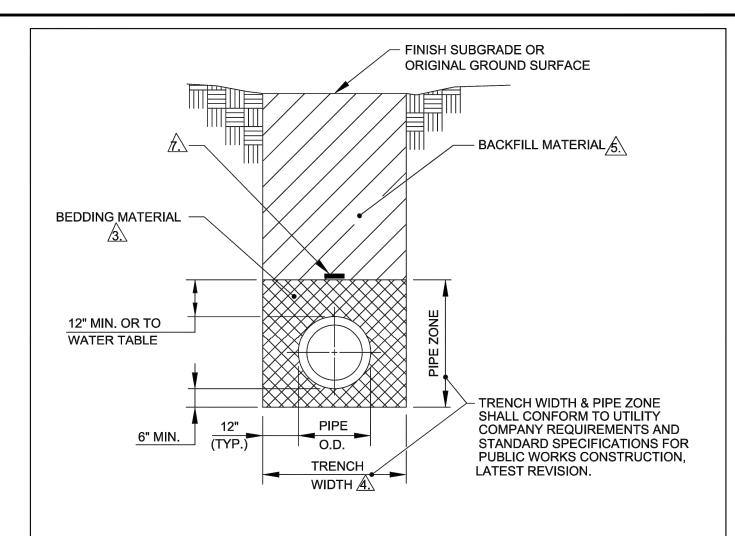
DATE: May 7, 2014





SECTION





- A PERMIT MUST BE OBTAINED FROM THE PUBLIC WORKS DIRECTOR PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY. 24 HOURS PRIOR TO TRENCH EXCAVATION, THE PERMITTEE MUST NOTIFY THE TOWN PUBLIC WORKS DIRECTOR INSPECTOR OR APPLICABLE ENGINEER OF RECORD.
- 2. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST REVISION.
- /3. BEDDING MATERIAL SHALL CONFORM TO OWNING-UTILITY COMPANY REQUIREMENTS AS APPROVED BY THE TOWN. FOR TOWN-OWNED UTILITIES, BEDDING MATERIAL SHALL BE COMPACTED TO 90% MINIMUM. FOR TRAFFIC/ELECTRICAL CONDUIT TRENCHES LESS THAN 12 INCHES IN WIDTH, INCLUDING VERMIER TRENCHES, BEDDING SHALL BE APPROVED SCREENED 3" MINUS MATERIAL. BACKFILL SHALL BE CEMENT SLURRY (ONE SACK). CEMENT SLURRY BEDDING/BACKFILL MAY BE USED AS AN ALTERNATE BACKFILL MATERIAL WITH WRITTEN APPROVAL FROM THE TOWN ENGINEER FOR EACH SPECIFIC APPLICATION.
- 4\ ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS. SHORING OR SLOPED CUT MAY BE NECESSARY, BUT THERE WILL BE NO PAYMENT FOR ADDITIONAL EXCAVATION, BEDDING, BACKFILL, OR SHORING.
- 5.\ SEE TOWN STANDARD 005 FOR TRENCH BACKFILL SPECIFICATIONS.
- 6. EDGE OF 4 INCH ROCK WHEEL TRENCHES FOR CONDUIT SHALL BE LOCATED A MINIMUM OF 9 INCHES FROM GUTTER LIP.
- 7. PIPE TAPE IDENTIFICATION OF UTILITY SHALL BE INSTALLED.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

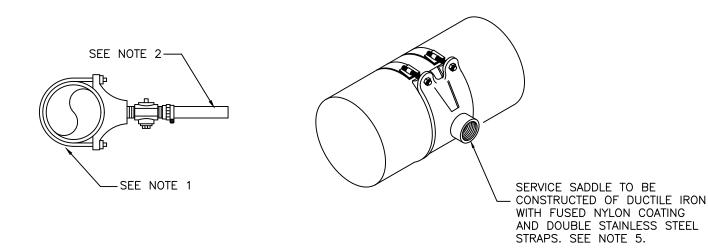
Mammoth Lakes

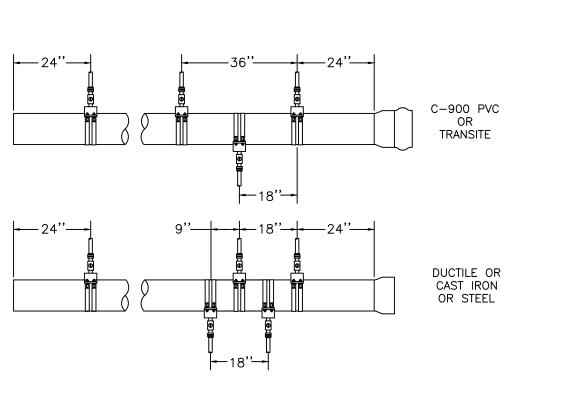
TRENCH EXCAVATION / BACKFILL DATE: May 7, 2014

STANDARD PLAN 202-1 SHEET 2 OF 2

1. SERVICE CLAMP SIZE IS DEPENDENT UPON THE SIZE AND TYPE OF MAIN. 2. SDR-9 CTS HDPE TUBING, LENGTH AND DIAMETER TO BE DETERMINED BY ENGINEER. REFER TO

- 3. STOP CORP IP THREAD INLET, COMPRESSION OUTLET, DIAMETER TO MATCH TAP SIZE AS SHOWN ON
- 4. INSERT RIGID STAINLESS STEEL LINER TO SDR-9 CTS HDPE TUBING. 5. SERVICE TAPS OFF OF EXISTING PVC MAINS SHALL USE TAPPED FULL CIRCLE REPAIR CLAMP MINIMUM LENGTH: 15". MANUFACTURER SHALL BE APPROVED BY MAMMOTH COMMUNITY WATER DISTRICT.







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MAMMOTH YOSEMITE AIRPORT

C05-05

SHEEL 5 OF 7

1. THERMAL EXPANSION PROTECTION IS REQUIRED IN ANY DOMESTIC WATER SUPPLY SYSTEM THAT IS DOWNSTREAM FROM A BACKFLOW PREVENTION DEVICE. REFERENCE: UNIFORM PLUMBING CODE.

- 3. FOR DRIVEWAY OR TRAFFIC AREAS USE TRAFFIC RATED H/20 LOADING ENCLOSURE. 4. TOP OF METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE
- WITHIN LANDSCAPED AREAS, AND SHALL BE SET FLUSH WITH SURROUNDING FINISH GRADE IN TRAFFIC AREAS. 5. ENCLOSURE TO BE BACKFILLED WITH WATER PIPE BEDDING SAND ONLY, SEE TOWN OF MAMMOTH LAKES DETAIL
- 6. BLANKET TO BE INSTALLED ABOVE METER AND BELOW TRANSMITTER.

MATERIAL LIST

ITEM ID QTY. DESCRIPTION 1.0 SETTER WATER METER, NEW 1" MIP ENDS MS - 1.00WSC-1.25x1.00-CTSxFIP

1.0 COUPLING SERVICE 1-1/4" CTS COMPRESSION X 1" FIP 1.0 LINER RIGID STAINLESS STEEL FOR 1-1/4" CTS HDPE TUBING 2.0 GASKET-1" FOR WATER METER

1.0 1" WATER METER WM-DISC-1.00 ENCL-13x24-NT ENCL-13x24-LID-NT

1.0 ENCLOSURE NON-TRAFFIC 13 X 24 WATER METERS, SEE NOTE 3 1.0 COVER NON-TRAFFIC 13 X 24, SEE NOTE 3

ENCL-13x24-EXT-NT 1.0 EXTENSION BOX NON-TRAFFIC 13 X 24, SEE NOTE 3 INSL-BLKT-4x4 1.0 BLANKET INSULATION 4' X 4' FOR WATER METERS

RDWD-BRD-2x6x30 2.0 BOARD - REDWOOD 2" X 6" X 30" 1.0 IDLER WATER METER 1" SETTER

1.0 REMOTE TRANSMITTER

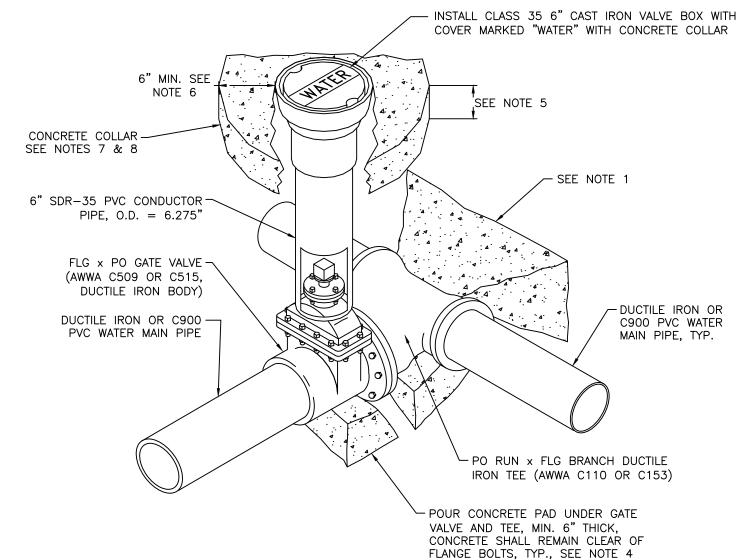
IDLR-1.00

SSL-1.25

GSKT-1.00

WATER METER

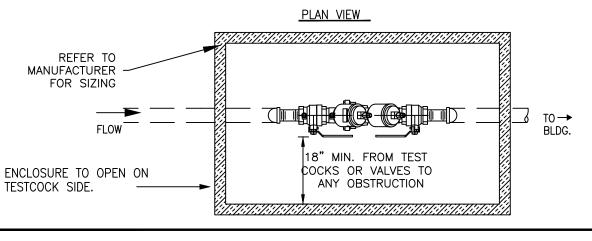
- 1. REFERENCE STANDARD DETAIL 7/C201 FOR THRUST BLOCK SIZING AND REQUIREMENTS. ALL BOLTS AND EXPOSED METAL SHALL BE COATED WITH BRUSHED-ON MASTIC.
- TEE, VALVES, FITTINGS, DUCTILE IRON PIPE AND OTHER METAL PARTS SHALL BE ENCASED WITH POLYETHYLENE WRAP PER AWWA C105. 4. CONCRETE FOR PADS SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI AFTER 28
- DAYS. BAG CONCRETE MIX IS NOT ACCEPTABLE. 5. CONCRETE COLLAR SHALL BE MINIMUM 6-INCHES THICK OR MATCH PAVEMENT THICKNESS, WHICHEVER IS
- GREATER, UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL AGENCY RESPONSIBLE FOR THE ROADWAY. FOR MULTIPLE VALVE/RISER BOXES IN CLOSE PROXIMITY, A MONOLITHIC CONCRETE COLLAR MAY BE POURED.
- 7. CONTRACTOR AND/OR DESIGN ENGINEER SHALL CONSULT WITH THE JURISDICTIONAL AGENCY RESPONSIBLE FOR THE ROADWAY FOR REQUIREMENTS THAT MAY VARY FROM THIS STANDARD PRIOR TO CONSTRUCTION.
- 8. UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL AGENCY RESPONSIBLE FOR THE ROADWAY, PORTLAND CEMENT CONCRETE (P.C.C.) FOR CONCRETE COLLAR SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. BAG CONCRETE MIX IS NOT ACCEPTABLE.

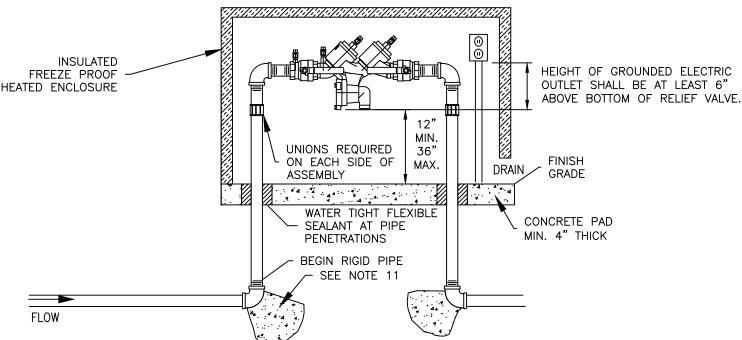


MATERIAL LIST

DESCRIPTION PO RUN x FLG BRANCH DUCTILE IRON TEE (AWWA C110 OR C153) FLG x PO GATE VALVE WITH DUCTILE IRON BODY (AWWA C509 OR C515) CLASS 35 6" CAST IRON VALVE BOX WITH COVER MARKED "WATER" 6" SDR-35 PVC CONDUCTOR PIPE SECTION, O.D. = 6.275" CONCRETE BULK - THRUST BLOCKS, PADS, COLLARS

MECHANICAL JOIN AND FLANGED TEES

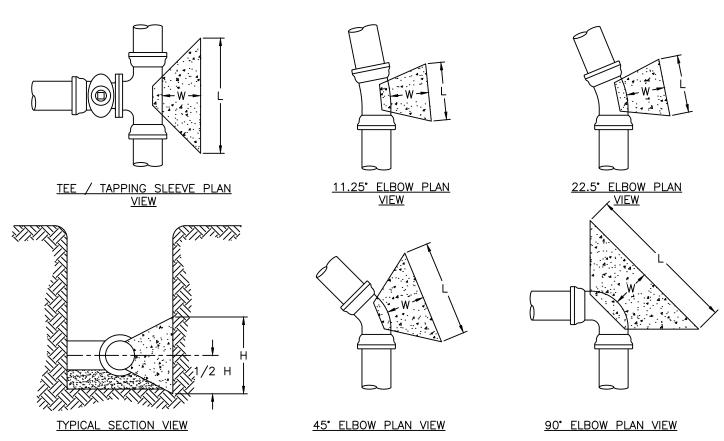




ASSEMBLY SHALL BE A USC APPROVED LEAD FREE DEVICE.

- THE RP SHALL BE INSTALLED ABOVE GRADE. GROUNDED ELECTRIC SUPPLY SHALL BE A MINIMUM OF 6" ABOVE BOTTOM OF RELIEF VALVE AND STUBBED TO THE OUTSIDE.
- 4. NO STOP AND WASTE VALVES.
- 5. FREEZE PROOF INSULATED BOX AND 1 SOURCE OF HEAT ARE REQUIRED. 2 SOURCES OF HEAT ARE STRONGLY
- INSULATED BOX SHALL SWING CLEAR OF ASSEMBLY TO PROVIDE CLEARANCES SHOWN OR INSULATED BOX SHALL BE SIZED TO PROVIDE CLEARANCES SHOWN. SPRING LOADED LID REQUIRED ON LARGE BOXES.
- THERMAL EXPANSION PROTECTION IS REQUIRED IN ANY DOMESTIC WATER SUPPLY SYSTEM THAT IS DOWNSTREAM FROM A BACKFLOW PREVENTION DEVICE. REFERENCE: UNIFORM PLUMBING CODE & NAC 445A.67235.
- INSPECTION BY MAMMOTH COMMUNITY WATER DISTRICT BACKFLOW PREVENTION GROUP PERSONNEL REQUIRED BEFORE METER IS SET OR SERVICE IS ACTIVATED.
- 10. IF INITIAL TEST DONE BY MAMMOTH COMMUNITY WATER DISTRICT FIELD PERSONNEL FAILS, RETESTING OF BACKFLOW ASSEMBLY IS REQUIRED WITHIN 7 DAYS AFTER METER IS SET OR SERVICE ACTIVATION. COPY OF TEST RESULTS TO BE FORWARDED TO MAMMOTH COMMUNITY WATER DISTRICT BACKFLOW PREVENTION GROUP BY A CERTIFIED ASSEMBLY TESTER WITHIN THAT SAME TIMEFRAME.
- 11. MINIMUM DIMENSIONS FOR THE THRUST BLOCK BEARING AREA FOR PIPE 2" AND SMALLER SHALL BE 8" X 8" AND 12" IN DEPTH. ALL OTHER SIZES TO BE DETERMINED BY ENGINEER.

BACKFLOW PREVENTION ASSEMBLY N.T.S.



	THRUST BLOCK DIMENSIONS															
TEE,	TAP, O	R DEAD	END		11	25° ELE	3OW	22	.5° ELB	OW	45	e ELBC	W	90	D. ETBC)W
BRANCH SIZE INCHES	(EEET)		W MIN. (FEET)	ELBOW SIZE (INCHES)	L (FEET)	H (FEET)	W MIN. (FEET)			W MIN. (FEET)			W MIN. (FEET)			W MIN. (FEET)
4	1.5	1	1	4	1	1	1	1	1	1	1.5	1	1	2	1	1
6	2	2	1	6	1	1	1	1.5	1	1	2	1.5	1	2.5	2	1
8	3	2	1	8	1.5	1	1	1.5	1.5	1	2.5	2	1	4	2	1
10	3.5	2.5	1	10	2	1	1	2	2	1	3	2.5	1	5	2.5	1
12	4.5	3	1	12	2	1.5	1	2.5	2	1	4	2.5	1	6	3	1

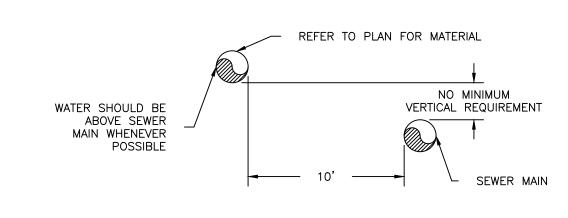
THRUST BLOCK DESIGN CRITERIA

THRUST BLOCK SIZES HAVE BEEN CALCULATED USING THE METHOD AND EQUATIONS PUBLISHED IN THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE, SIXTH EDITION 2006 BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) UTILIZING THE FOLLOWING DESIGN PARAMETERS: DESIGN PRESSURE = 150 PSI (SEE NOTE #4 BELOW), SOIL BEARING CAPACITY = 2,000 PSF (SEE NOTE #4 BELOW), SAFETY FACTOR = 1.5, AND NOMINAL PIPE DIAMETER

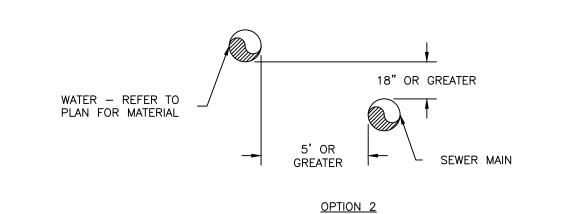
THRUST BLOCK NOTES

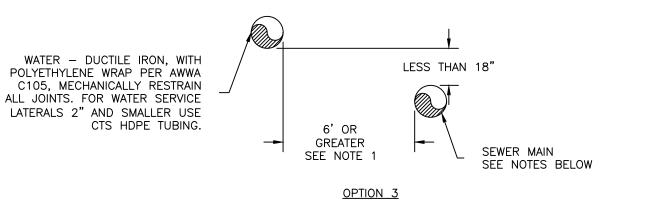
- 1. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. BAG CONCRETE MIX IS NOT ACCEPTABLE.
- 2. ALL FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE WRAP PER AWWA C105. MASTIC (BRUSH-ON) SHALL BE APPLIED TO ALL
- 3. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL. IN CASES WHERE THIS IS NOT PRACTICAL, BACKFILL AREA BEHIND WHERE THRUST BLOCK WILL BE POURED WITH TYPE 2, CLASS B AGGREGATE BASE COMPACTED TO 95% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY PROCEDURES SET FORTH IN ASTM D 1557, CUT-BACK COMPACTED AGGREGATE
- BASE TO EXPOSE A FIRM SURFACE, THEN POUR THRUST BLOCK. 4. FOR SOIL BEARING CAPACITY LESS THAN 2,000 PSF AND/OR DESIGN PRESSURE IN EXCESS OF 150 PSI, INCREASE THRUST BLOCK BEARING AREAS ACCORDINGLY. REVISED THRUST BLOCK SCHEDULE FOR SPECIFIC CONDITIONS SHALL BE SUBMITTED BY THE DESIGN





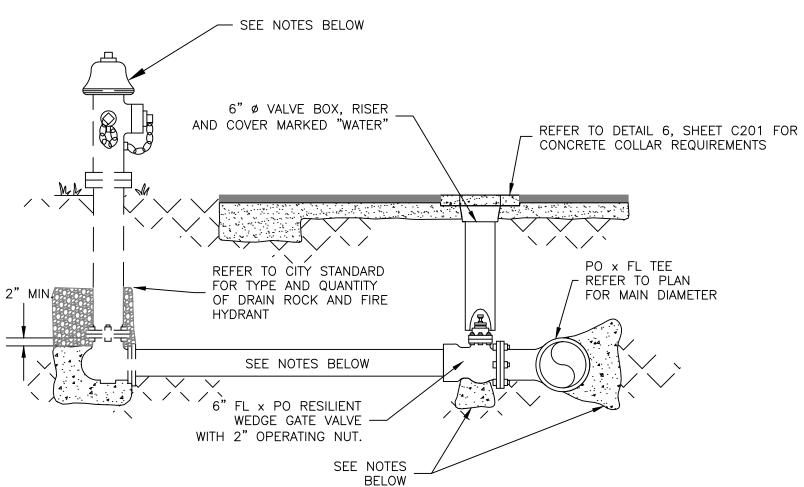
OPTION 1





- 1. IF SEPARATION IS 10 FEET OR MORE USE OPTION 1 2. NON-PRESSURIZED SEWER MAINS SHALL BE SDR 35 PVC. IF SEWER MAINS ARE NON SDR 35 PVC, SEWER MAINS SHALL BE ENCASED IN 4" OF EXCAVATABLE SLURRY, USE EXTERNAL JOINT SEALANT OR OTHER MITIGATION TO ENSURE JOINTS ARE WATERTIGHT. WHERE THE SEWER MAINS ARE PRESSURIZED, THE SEWER MAINS SHALL HAVE MECHANICALLY
- RESTRAINED JOINTS OR SHALL USE WELDED OR FUSED PIPE. 3. FOR STORM SEWER MAINS WITH A DIAMETER OF 24" OR LARGER, THE SEWER MAINS SHALL BE INSTALLED WITH WATER TIGHT JOINTS THAT USE JOINT SEALANTS OR JOINT GASKETS.

WATER MAIN/SERVICE LATERAL PARALLEL TO SEWER MAIN N.T.S.



- 1. REFERENCE JURISDICTIONAL FIRE AGENCY FOR REQUIRED PIPE MATERIALS. POLYETHYLENE WRAP TO BE USED ON ALL DUCTILE IRON PIPE AND FITTINGS PER
- 2. REFER TO PLAN FOR ACTUAL DIAMETER AND LENGTH FOR HYDRANT LATERAL.
- 3. KEEP A MINIMUM OF 2" CLEARANCE BETWEEN FLANGES/BOLTS AND CONCRETE. 4. LOCATION OF FIRE HYDRANT TO BE DETERMINED BY APPROPRIATE GOVERNMENTAL FIRE AGENCY. FIRE HYDRANT AND BARREL EXTENSION TO BE SUPPLIED BY
- 5. REFER TO JURISDICTIONAL AGENCY'S ADOPTED FIRE CODE FOR HYDRANT TYPE, COLOR AND CONNECTION TYPES.
- 6. ALL EXPOSED METAL MUST BE COATED AND WRAPPED. 7. REFER TO CITY STANDARDS OR DETAIL 7, SHEET C201 FOR THRUST BLOCK REQUIREMENTS. USE THE MOST CONSERVATIVE.



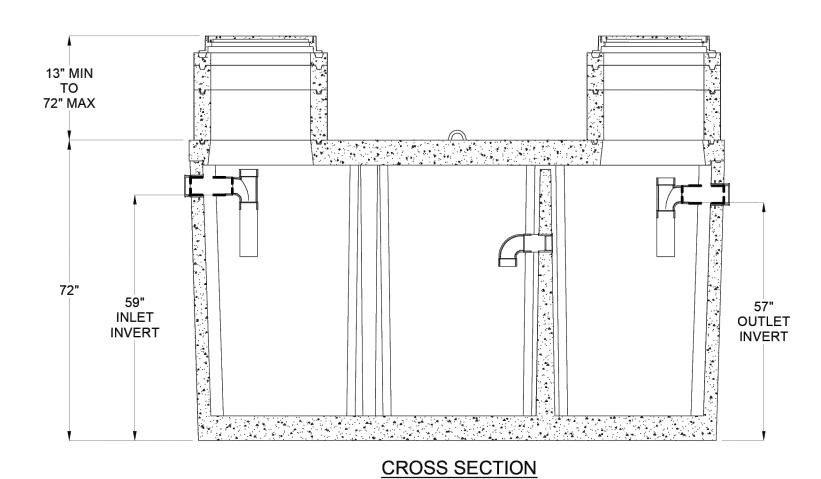
95% CD

C05-06 SHEET 6 OF 7

FEBRUARY 2025

IULTIPURPOSE BUILDING TO INCLUDE ARFF AND SRECOMPONENTS AIRPORT

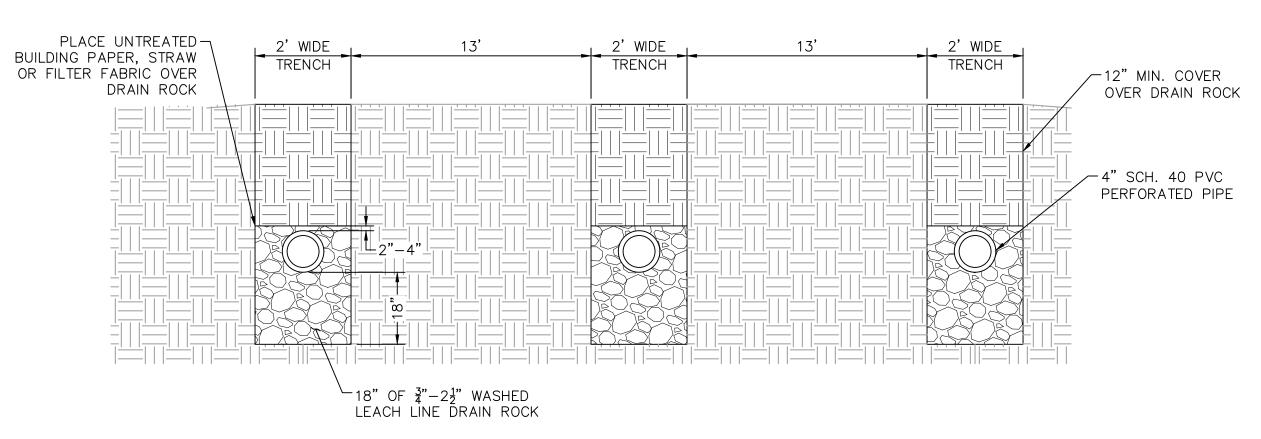
PLAN VIEW



LIQUID CAPACITY: 1,500 GALLONS.

LOAD CONDITION: H-20 TRAFFIC WITH DRY SOIL CONDITIONS (WATER LEVEL BELOW TANK) AND 13 INCHES TO 14 FEET OF SOIL COVER.

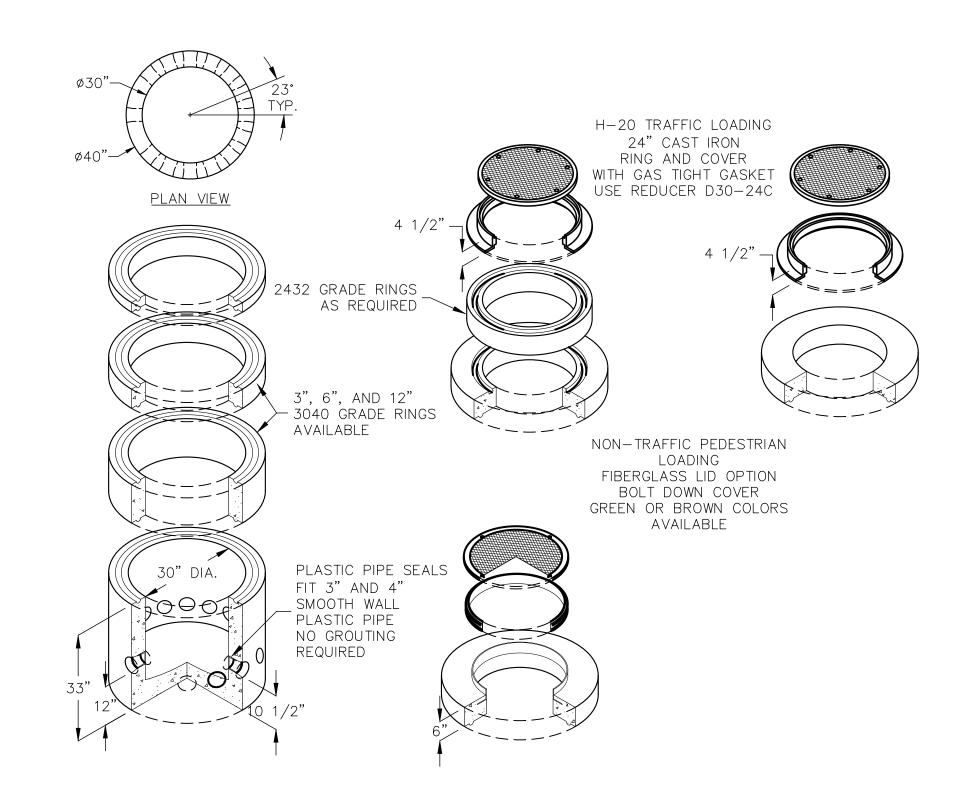




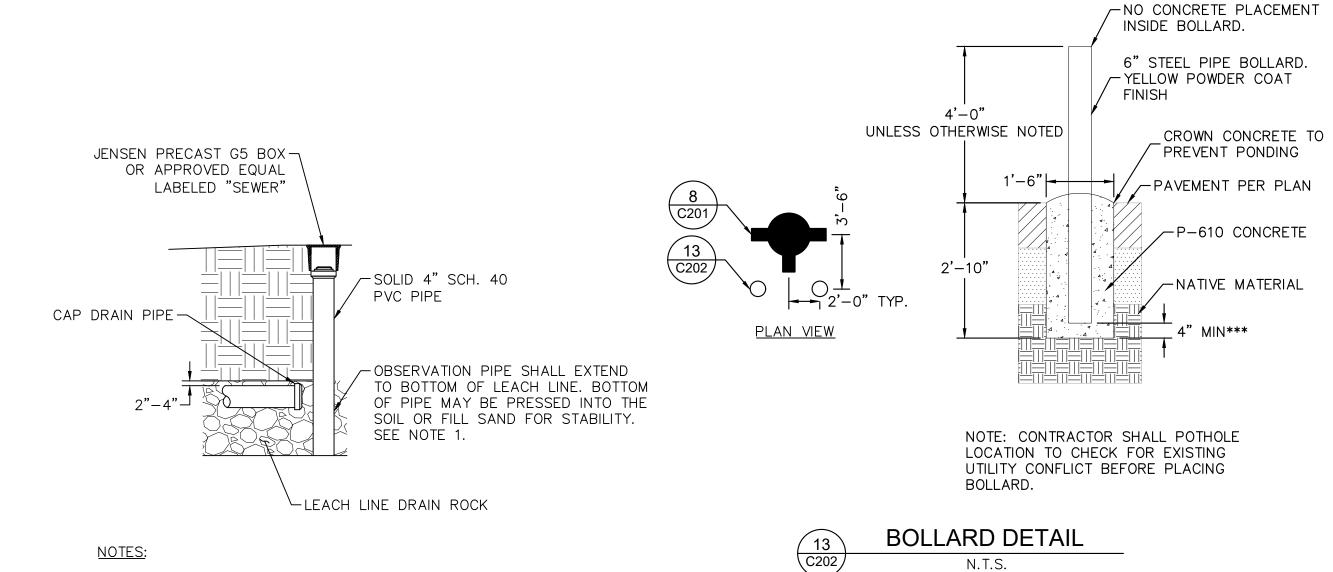
NOTES:

- THE BOTTOM OF TRENCH AND LEACH LINE DRAINAGE PIPING SHALL BE LEVEL WITH A MAXIMUM FALL OF 3 INCHES PER 100 FEET OF TRENCH.
- 2. IF ROCKS, BOULDERS, HEAVY CLAY OR OTHER IMPERMEABLE MATERIAL ARE ENCOUNTERED DURING THE TRENCH INSTALLATION, ADDITIONAL LEACH LINE SHALL BE INSTALLED TO COMPENSATE FOR THE LOSS OF ABSORPTION AREA.









OBSERVATION PIPE
N.T.S.

1. THE PORTION OF THE PIPE IN THE DRAIN ROCK SHALL BE DRILLED OR SLOTTED TO PERMIT

WASTEWATER FLOW INTO THE PIPE.

95% CD

WELDED STEEL CAP.

SHEET NUMBER

C05-07

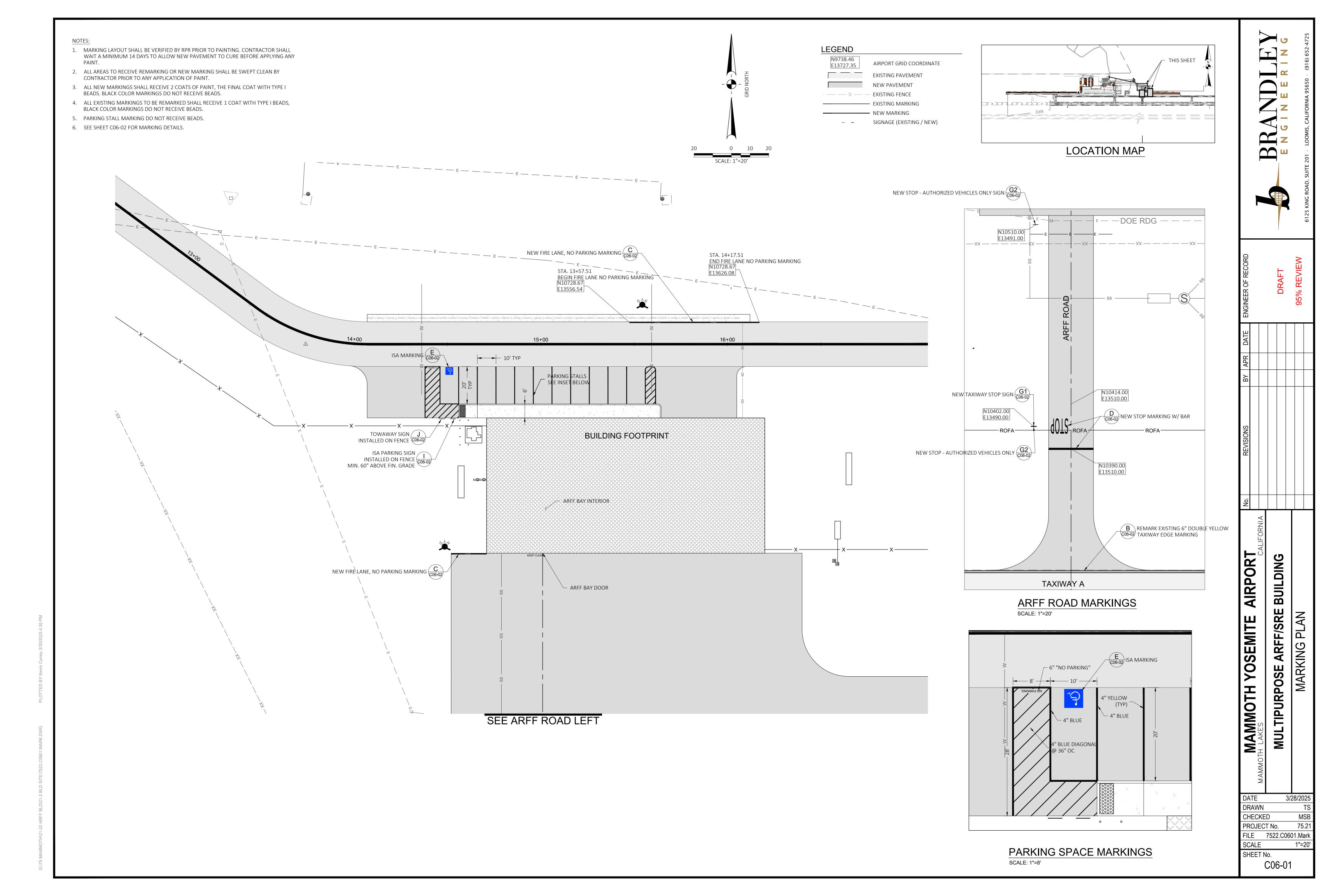
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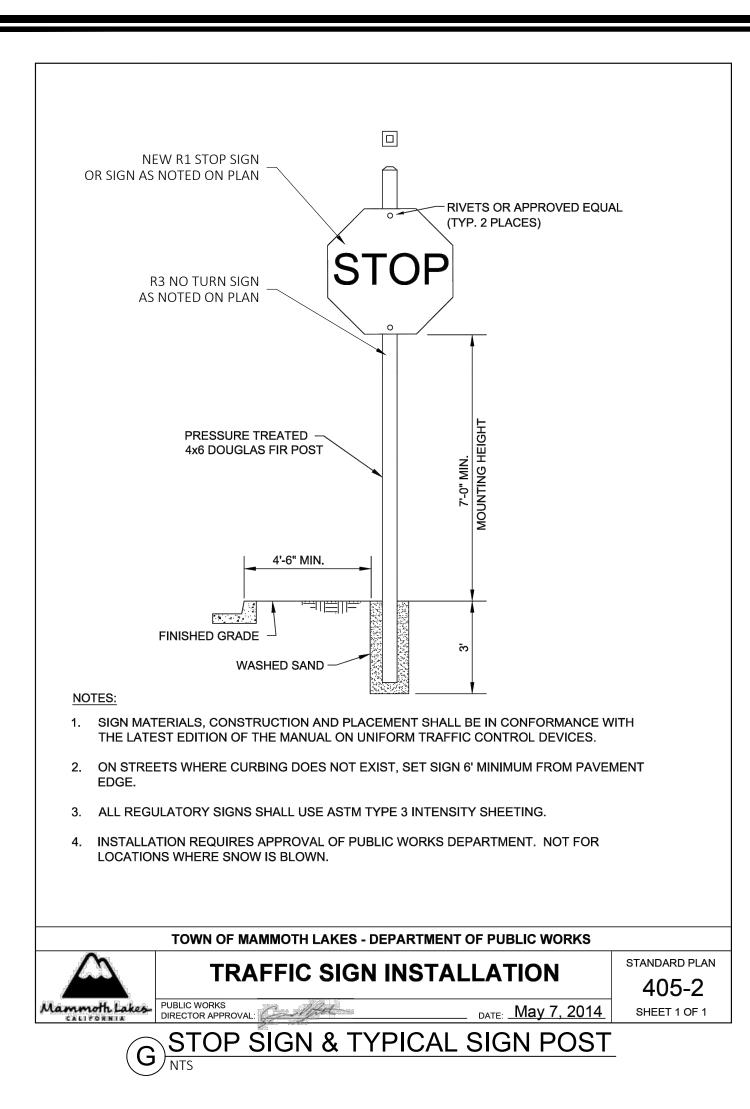
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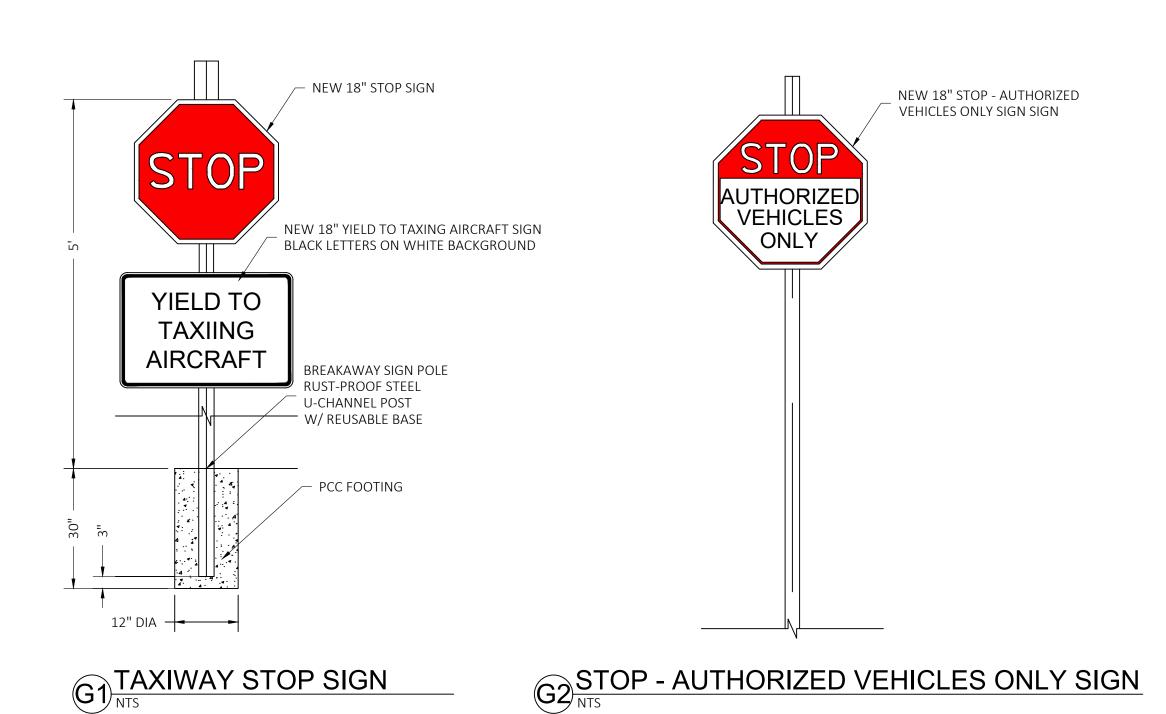
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MAMMOTH YOSEMITE AIRPORT
MAMMOTH YOSEMITE AIRPORT
MULTIPURPOSE BUILDING TC
INCLUDE ARFF AND SRE
COMPONENTS

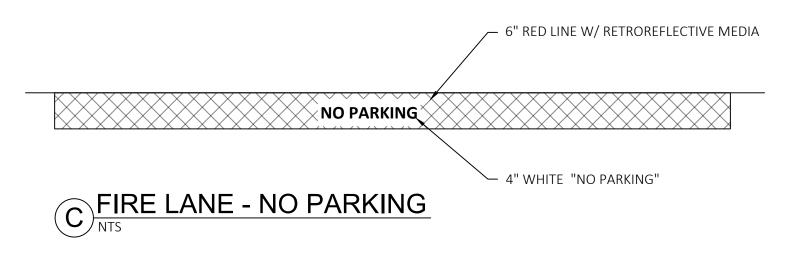








B TAXIWAY EDGE STRIPE DETAIL





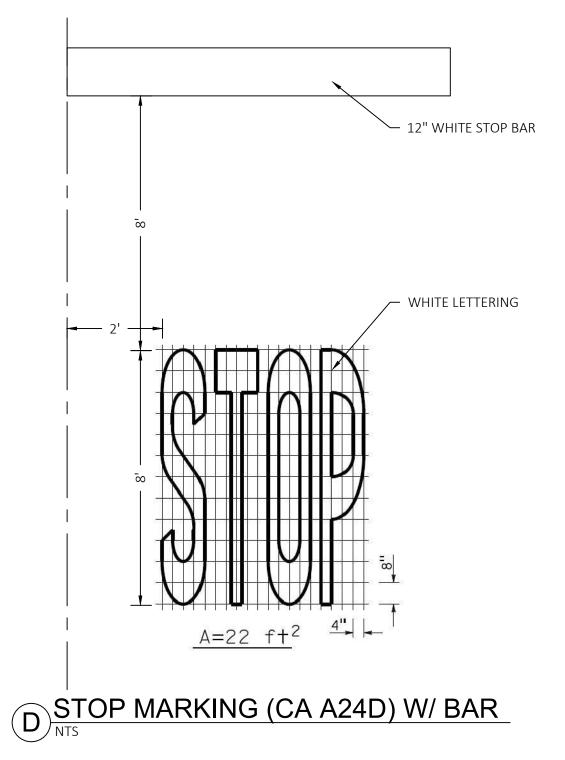


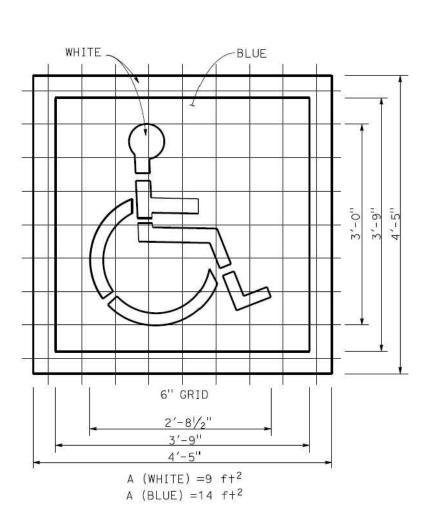
- MINIMUM MOUNTING HEIGHT, 60" FROM BOTTOM OF SIGN TO
- 2. FENCE MOUNTING HARDWARE SHALL INCLUDE 1.75" x 17" OR 23", 14 GUAGE STEEL BRACKET WITH 3/8" PRE-DRILLED HOLES FOR 2.5" LONG x 5/16" ZINC PLATED BOLTS WITH MATCHING NUTS, LOCK AND NYLON WASHERS.



TOWAWAY SIGN (CA R100B)

- MINIMUM MOUNTING HEIGHT, 60" FROM BOTTOM OF SIGN TO
- GROUND. 2. FENCE MOUNTING HARDWARE SHALL INCLUDE 1.75" x 17" OR 23", 14 GUAGE STEEL BRACKET WITH 3/8" PRE-DRILLED HOLES FOR 2.5" LONG x 5/16" ZINC PLATED BOLTS WITH MATCHING NUTS, LOCK AND NYLON





INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING

E ISA MARKING (CA A24C)

3/28/2025 DRAWN KDC MSB CHECKED PROJECT No. FILE 7522.C0601.Mark SCALE AS SHOWN

E ARFF/SRE BUILDING
AND SIGN DETAILS

MULTIPURPOSE

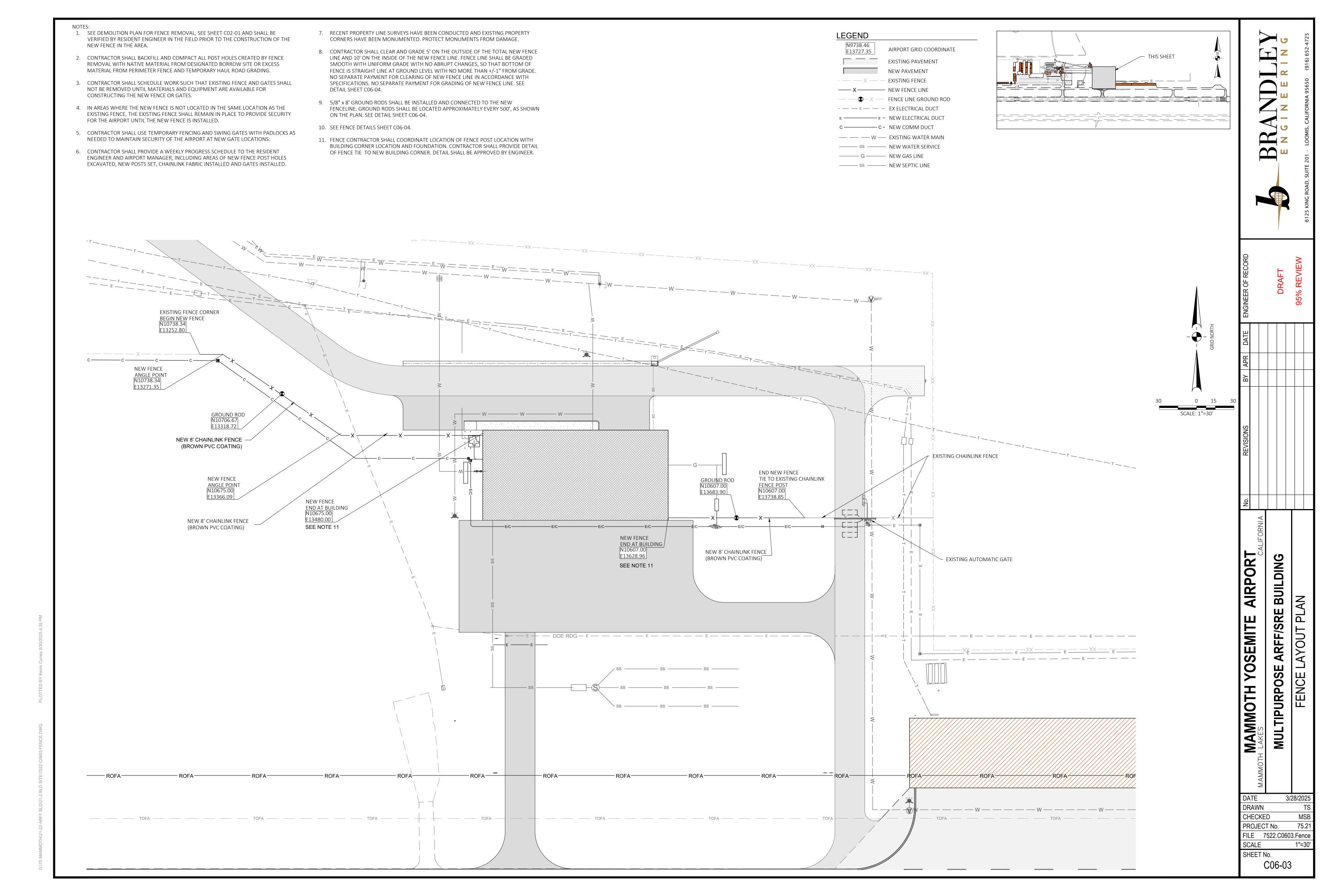
MARKING,

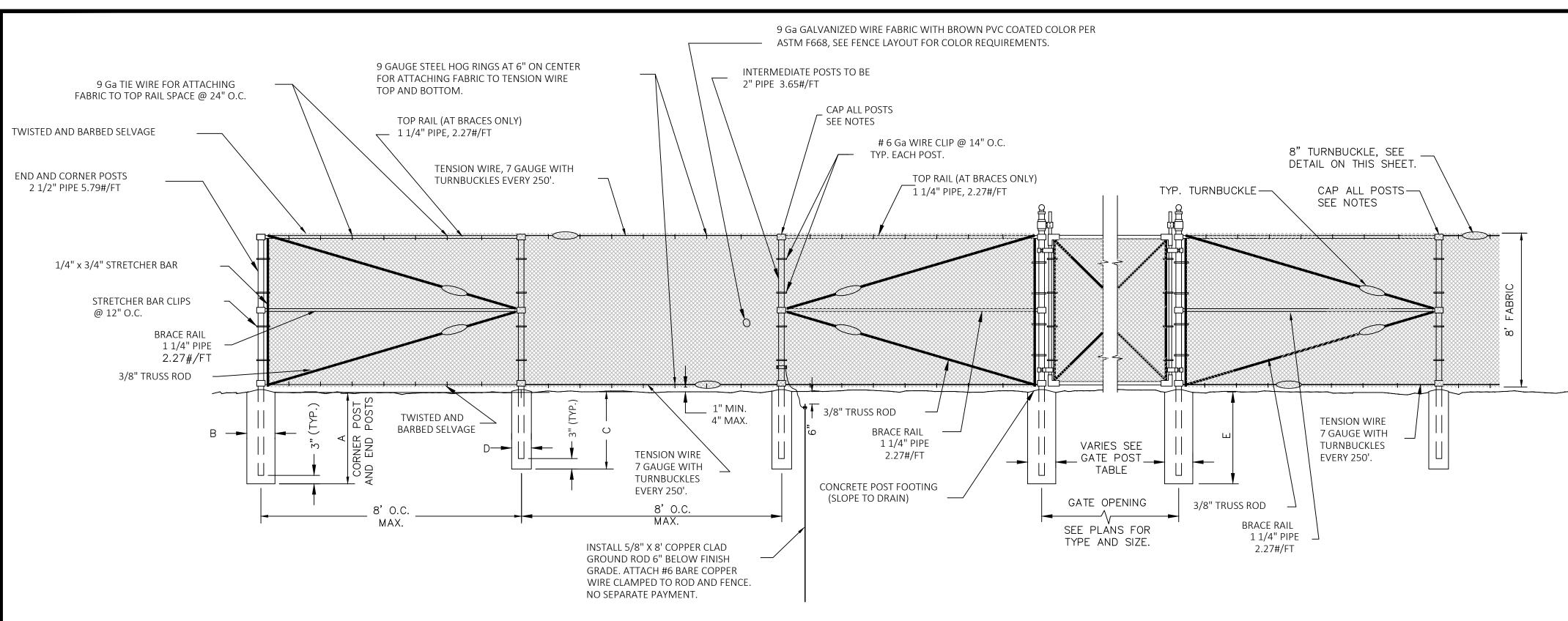
SHEET No. C06-02

AIRPORT

MAMMOTH YOSEMITE

DATE

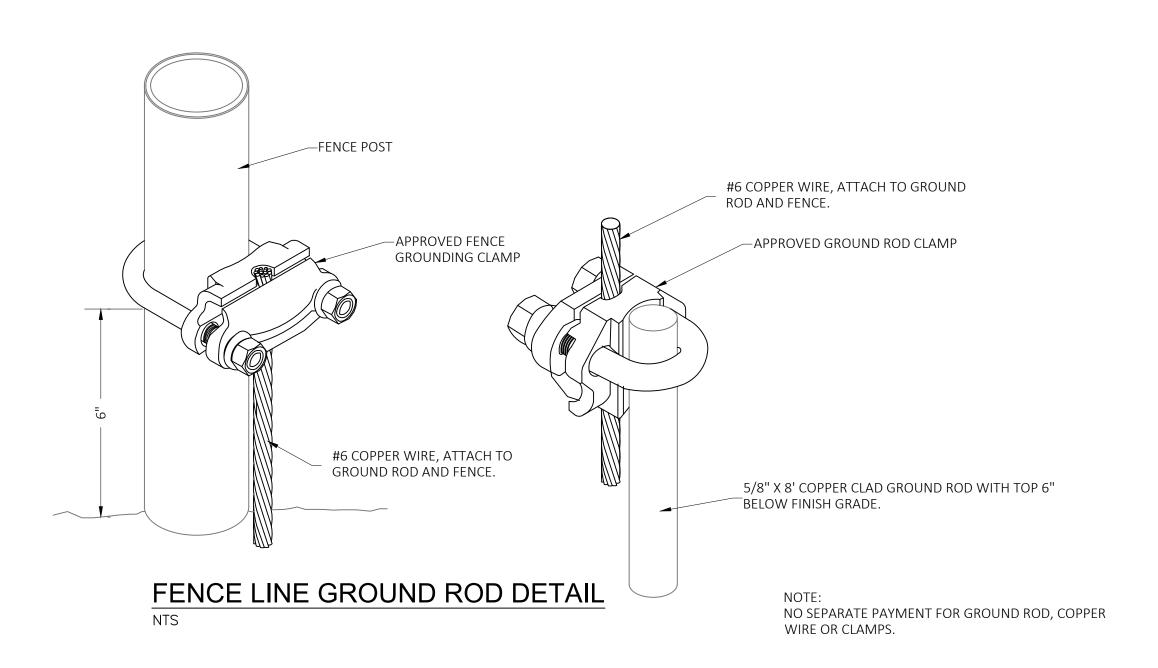




FENCE MEMBER DIMENSIONS										
PIPE SIZE DESIGNATION	OUTSIDE DIA INCHES	THICKNESS INCHES	WEIGHT lb/ft	USE						
2 1/2"	2.875	0.203	5.79	CORNER AND END POST						
2"	2.375	2.375 0.154		LINE POSTS						
1 1/4"	1.660	0.140	2.27	TOP AND BRACE RAILS						

CHAIN LINK FENCE DETAIL

FENCE POST FOUNDATION DIMENSIONS									
DIMENSION DESIGNATION	DIMENSION								
DEPTH (A)	END & CORNER	42"							
DIAMETER (B)	END & CORNER	12"							
DEPTH (C)	LINE	36"							
DIAMETER (D)	LINE	8"							
DEPTH (E) GATE 42"									

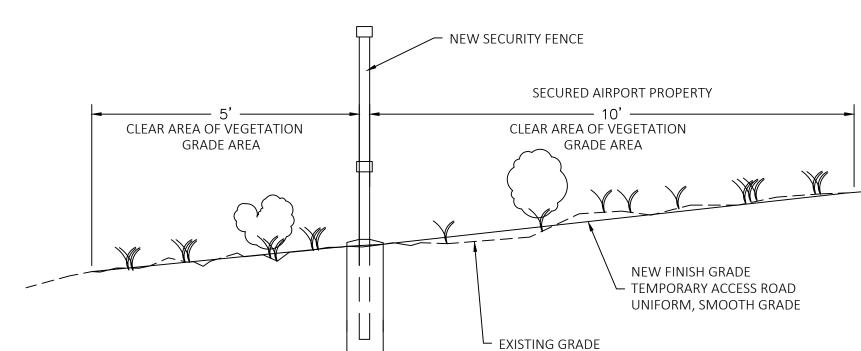


NOTE:

1. ALL MEMBERS TO BE HOT-DIPPED GALVANIZED, CONFORMING TO TYPE A OR GROUP 1C (HIGH STRENGTH PIPE), EXTERNAL COATING TYPE B & INTERNAL COATING TYPE B OR D. ALL MEMBERS SHALL BE PVC COATED COLOR BROWN; COLOR EXAMPLES SHALL BE SUBMITTED TO SPONSOR FOR APPROVAL. SEE LAYOUT PLANS FOR LOCATION OF NEW CHAINLINK FENCE.

2. FOR GATE POST SIZES SEE GATE DETAILS THIS SHEET.

- 3. FOR A STRAIGHT RUN OF THE FENCE LINE, BRACE POSTS AND BRACE RAILS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 500 FEET. BRACE POSTS SHALL BE THE SAME POST AS A CORNER OR END POST. BRACE RAILS SHALL BE INSTALLED ON BOTH SIDES OF THE BRACE POST. INSTALL TOP RAIL AT ALL BRACE AND CORNER POST LOCATIONS.
- 4. BEFORE EXCAVATING THE NEW FENCE LINE POSTS, THE NEW FENCE LINE SHALL BE GRADED SMOOTH TO A UNIFORM GRADE SO THE GAP BETWEEN THE BOTTOM OF THE FENCE FABRIC AND THE GROUND IS 1" MINIMUM AND 4" MAXIMUM. FENCE POSTS SHALL BE LOCATED AS NEEDED TO ADJUST FENCE TO BREAKS IN THE GRADE. SEE DETAIL BELOW FOR LIMITS OF NEW FENCE LINE AND TEMPORARY ACCESS ROAD.
- 5. AFTER DEBRIS AND VEGETATION HAVE BEEN CLEARED, THE GRADED FENCE LINE SHALL BE MOISTENED AND RECOMPACTED TO A DEPTH OF 6" AND A RELATIVE COMPACTION OF 90% MINIMUM
- 6. TURNBUCKLES SHALL BE INSTALLED AT THE END, EACH CORNER OF THE FENCE LINE AND AT INTERMEDIATE LOCATIONS ON THE TENSION WIRES AT SPACING NOT TO EXCEED 250'. TURNBUCKLES SHALL BE GALVANIZED STEEL 1/2" WITH 4 1/2" MIN. ADJUSTMENT.
- 7. TENSION WIRE SHALL BE 7 GAUGE COILED SPRING STEEL WIRE COATED SIMILAR TO THE RESPECTIVE WIRE FABRIC BEING USED.
- 8. HOG RINGS SHALL BE 9 GAUGE GALVANIZED STEEL PLACED AT 6" MAXIMUM SPACING ON TOP AND BOTTOM TENSION WIRES.
- 9. 6 GAUGE WIRE CLIPS SHALL BE PLACED AT 14" MAXIMUM SPACING ON EACH FENCE POST.
- 10. ALL CHAINLINK FENCE POSTS AND GATE POSTS SHALL BE SUPPLIED WITH GALVANIZED POST CAPS. ALL POST CAPS SHALL BE FIRMLY ATTACHED TO POST.
- 11. CHAINLINK FENCE FABRIC WIRE SHALL BE PVC COATED, BROWN IN COLOR IN ACCORDANCE WITH ASTM F668 AND F934. CONTRACTOR SHALL HANDLE FENCE FABRIC WITH CARE. ANY DAMAGE TO FABRIC OR MEMBER COATING PRIOR TO AND DURING INSTALLATION SHALL BE REPAIR BY CONTRACTOR AT NO EXPENSE TO THE OWNER.
- 12. INSTALL NEW 5/8" x 8' COPPER CLAD GROUND ROD, WITH TOP OF ROD 6" BELOW FINISH GRADE, AT 500' INTERVALS AT LOCATIONS OR AS SHOWN ON THE PLANS. USE #6 BARE COPPER WIRE CLAMPED TO FENCE POST AND GROUND ROD. NO SEPERATE PAYMENT FOR FENCE GROUNDING. SEE DETAIL THIS SHEET.
- 13. CONCRETE FOR ALL FENCE WORK SHALL BE 3000 PSI AND MEET P610 SPECIFICATIONS. NO CONCRETE WASH OUT IN FENCE POST HOLES. CONTRACTOR SHALL BUILD LINED RETENTION BASIN FOR CLEANOUT OR CONCRETE TRUCKS SHALL BE SELF CONTAINED.
- 14. ALL FENCE AND GATE POSTS SHALL BE PROVIDED SUCH THAT MATCHING POST TOP CAP CAN BE REMOVED AND REPLACED WITH OUTRIGGER EITHER HORIZONTAL OR 45 DEG ANGLE, DESIGNED TO SUPPORT 3 BARB WIRES.



FENCE LINE AND SERVICE ROAD GRADING DETAIL

NO SC

NOTES:

- 1. ALL EXISTING FENCE TO BE REMOVED, AS SHOWN ON THE PLANS, SHALL INCLUDE POSTS, CONCRETE FOOTINGS, WIRE, FABRIC AND GATES. ALL MATERIALS SHALL BE REMOVED FROM THE AIRPORT. ALL VEGETATION SPOILS SHALL BE REMOVED FROM AIRPORT PROPERTY OR MULCHED BY APPROVED METHODS AND SPREAD OVER WORK AREA AFTER FENCE LINE IS COMPLETED.
- 2. CONTRACTOR SHALL BACKFILL ALL POST HOLES WITH NATIVE MATERIAL FROM DESIGNATED BORROW SITE OR EXCESS MATERIAL SOIL FROM PERIMETER FENCE TEMPORARY HAUL ROAD GRADING.
- 3. CONTRACTOR SHALL CLEAR AND GRADE 5' ON THE OUTSIDE OF THE TOTAL NEW FENCE LINE AND 10' ON THE INSIDE OF TH NEW FENCE LINE. FENCE LINE SHALL BE GRADED SMOOTH WITH UNIFORM GRADE WITH NO ABRUPT CHANGES, SO THAT BOTTOM OF FENCE IS STRAIGHT LINE AT GROUND LEVEL WITH NO MORE THAN 1" MINIMUM AND 4" MAXIMUM FROM GRADE. NO SEPARATE PAYMENT FOR CLEARING OF NEW FENCE LINE IN ACCORDANCE WITH SPECIFICATIONS. SEE DETAIL ABOVE.

BRANDLE

DRAFT 95% REVIEW

No. REVISIONS BY APR

MAMMOTH YOSEMITE AIRPORT

LAKES

MULTIPURPOSE ARFF/SRE BUILDING

DATE 3/28/2025

DRAWN TS

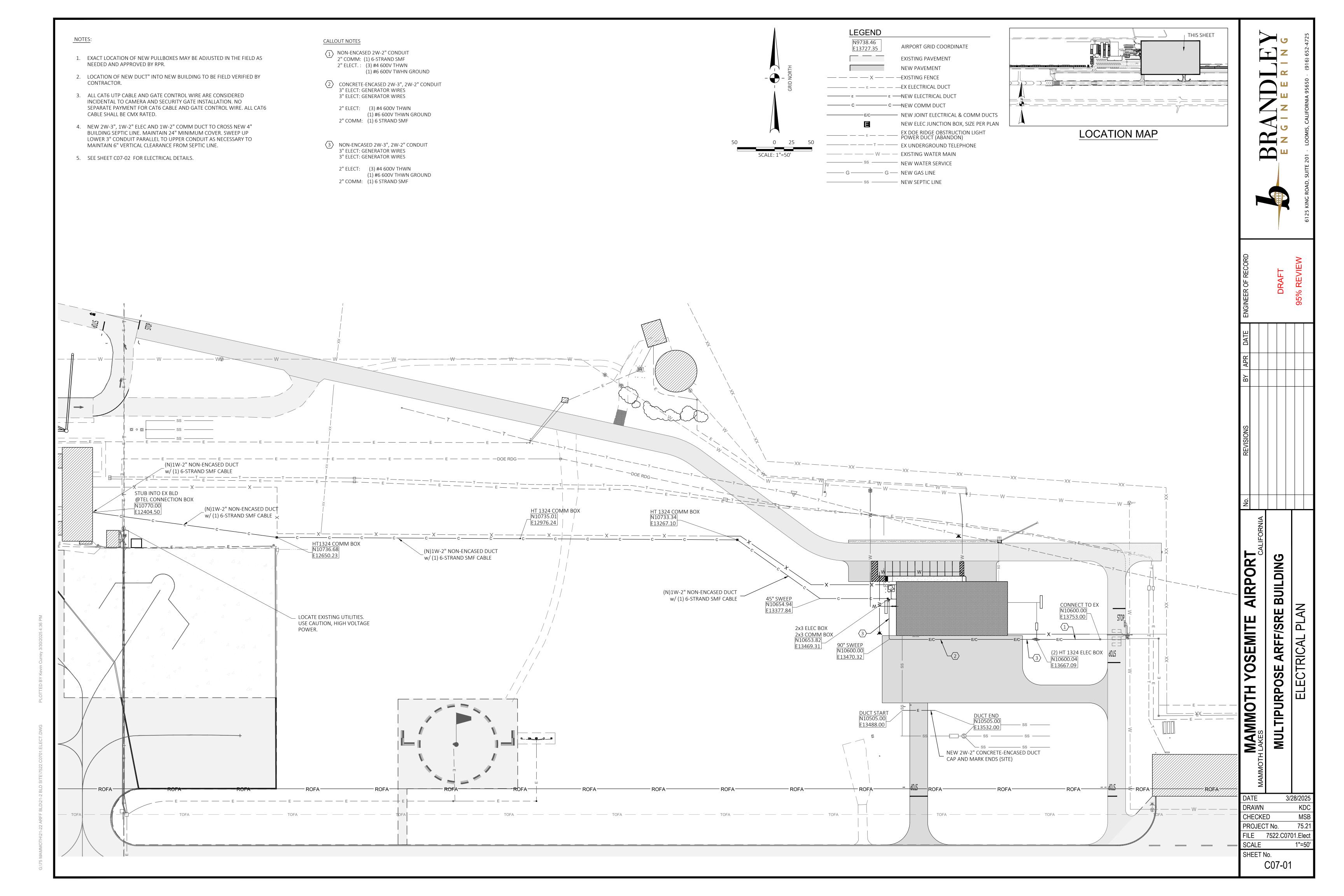
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PROJECT No. 75.21

FILE 7522.C0603.Fence

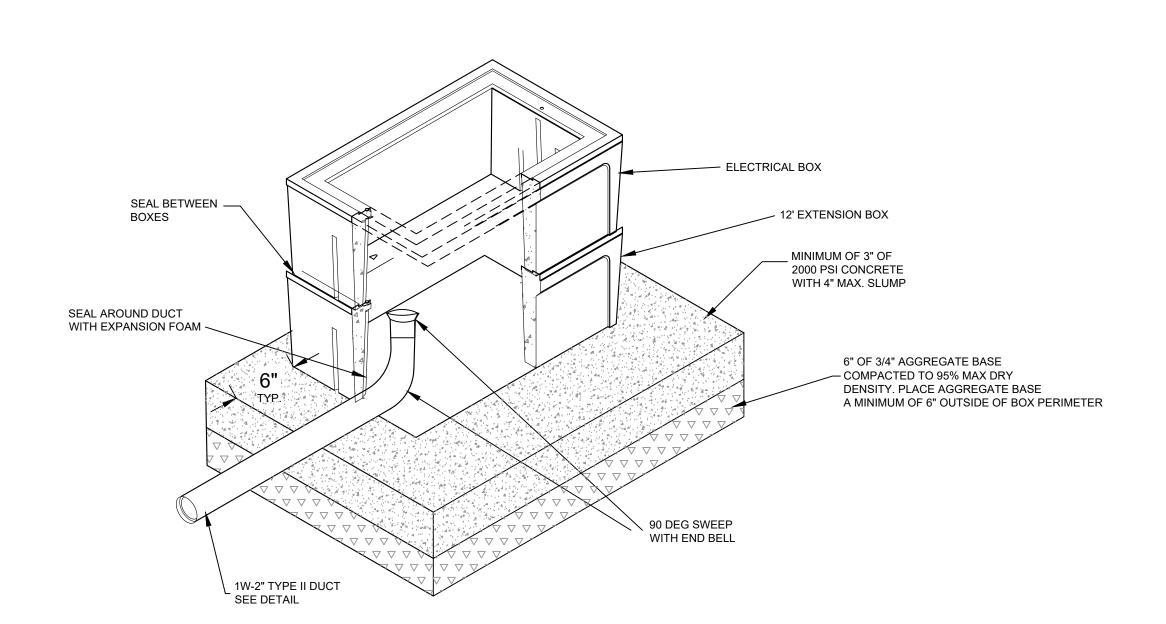
SCALE AS SHOWN SHEET No. C06-04

G:\75 MAMMOTH\21-22 ARFF BLD\21-2 BLD SITE\7522.C0603.FENCE.DWG



		WEIGHT	QTY. PER PALLET
вох	13"x24"x12" Concrete Traffic Rated Box (Comes Standard With Hex Bolts)	172	12
EXTENSION	13"x24"x12" Concrete Extension	174	12
LID	Steel Diamond Plate Bolt Down Lid	67	
LID	[®] Steel Traxplate Bolt Down Slip Resistant Lid	67	
	EXTENSION LID	EXTENSION 13"x24"x12" Concrete Extension LID Steel Diamond Plate Bolt Down Lid	EXTENSION 13"x24"x12" Concrete Extension 174 LID Steel Diamond Plate Bolt Down Lid 67

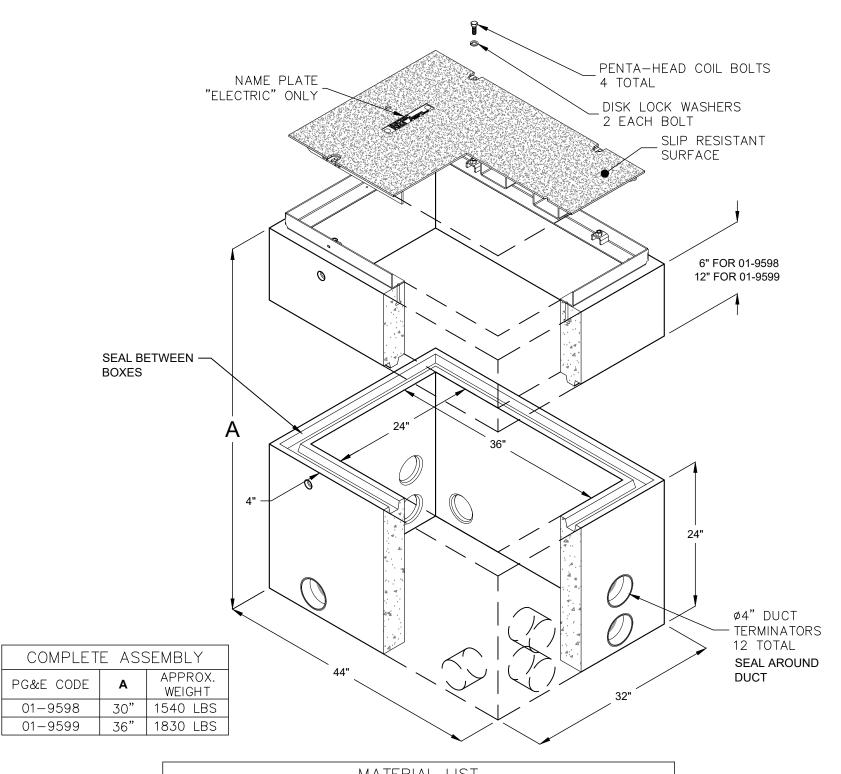
HT1324 JUNCTION BOX NOT TO SCALE



JUNCTION BOX BASE

NOT TO SCALE

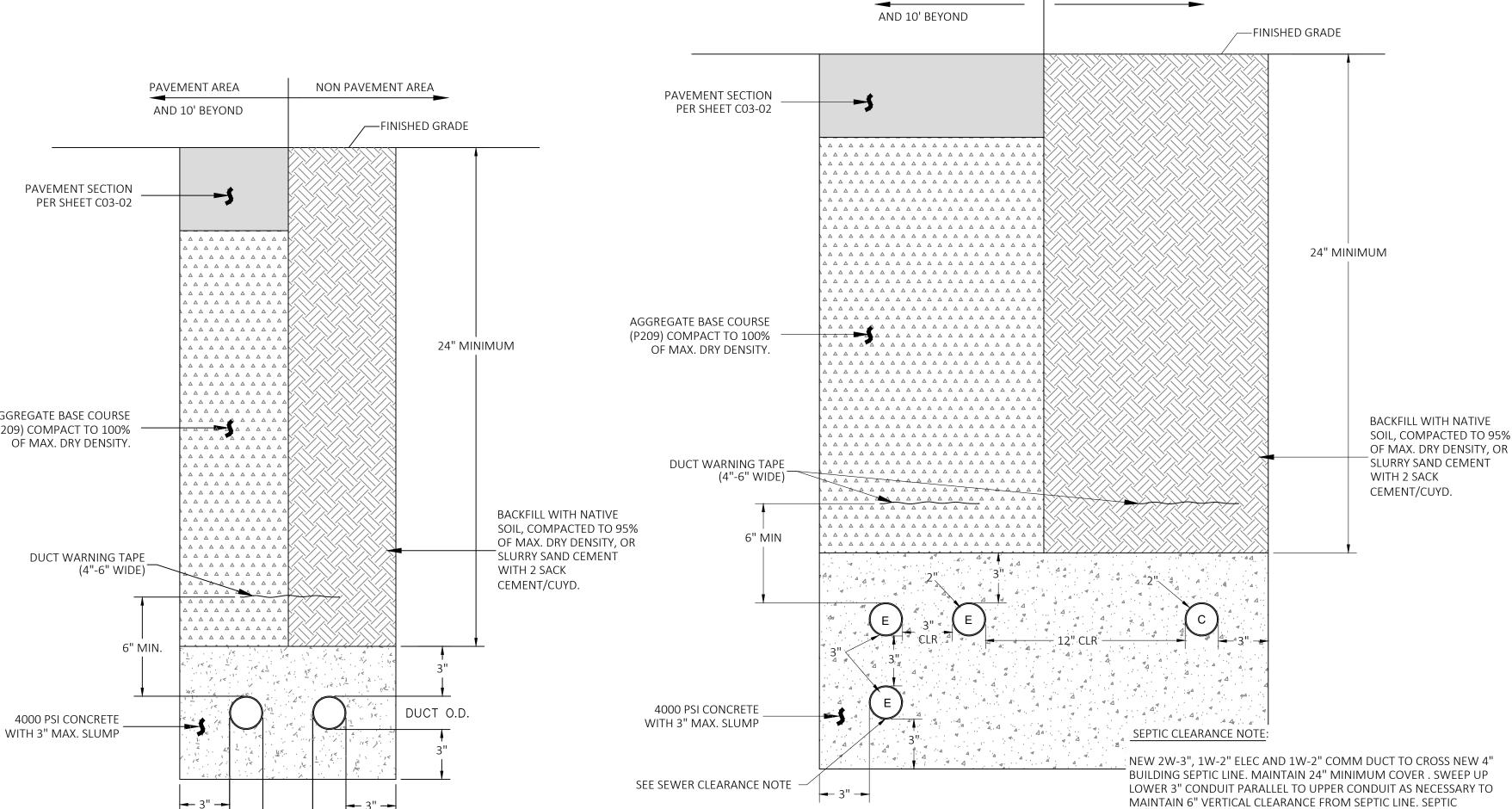
JUNCTION BOX BASE SHALL BE INSTALLED AT ALL HT1324 AND 2X3 JUNCTION BOXES. NO SEPARATE PAYMENT FOR BASE.



MATERIAL LIST					
PG&E CODE	DESCRIPTION	WEIGHT (LBS)			
043518	ENCLOSURE, 2'x3'x2'-0" PG&E	1060			
043519	RISER 2'x3'x6" PG&E	480			
043524	RISER 2'x3'X12" PG&E	770			

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2x3 JUNCTION BOX NOT TO SCALE



AGGREGATE BASE COURSE (P209) COMPACT TO 100% **CONCRETE ENCASED 2W-2" CONDUIT**

INSTALLATION BY BUILDING CONTRACTOR. CONCRETE ENCASED 2W-3", 1W-2" ELEC. AND 1W-2" COMM. CONDUIT

NO SCALE

— FINISHED GRADE

18" MIN

NON-ENCASED 1W-2" CONDUIT

NON PAVEMENT AREA

SAND ENCASED DUCT, COMPACT TO

OR SAND CEMENT SLURRY W/ 2 SACK

95% OF MAX. DRY DENSITY

NON PAVEMENT AREA

BACKFILL W/ NATIVE SOIL(2" MAX. PARTICLE SIZE),

COMPACTED TO 95% OF MAX. DRY DENSITY OR SLURRY SAND CEMENT WITH 1 SACK CEMENT/CUYD AND TOP 8" OF NATIVE SOIL

DUCT WARNING TAPE

(4"-6" WIDE) -

6" MIN

PAVEMENT AREA

AIRPORT BNILDING ARFF/SRE YOSEMITE 門

MULTIPURPOSE 3/28/2025 KDC MSB

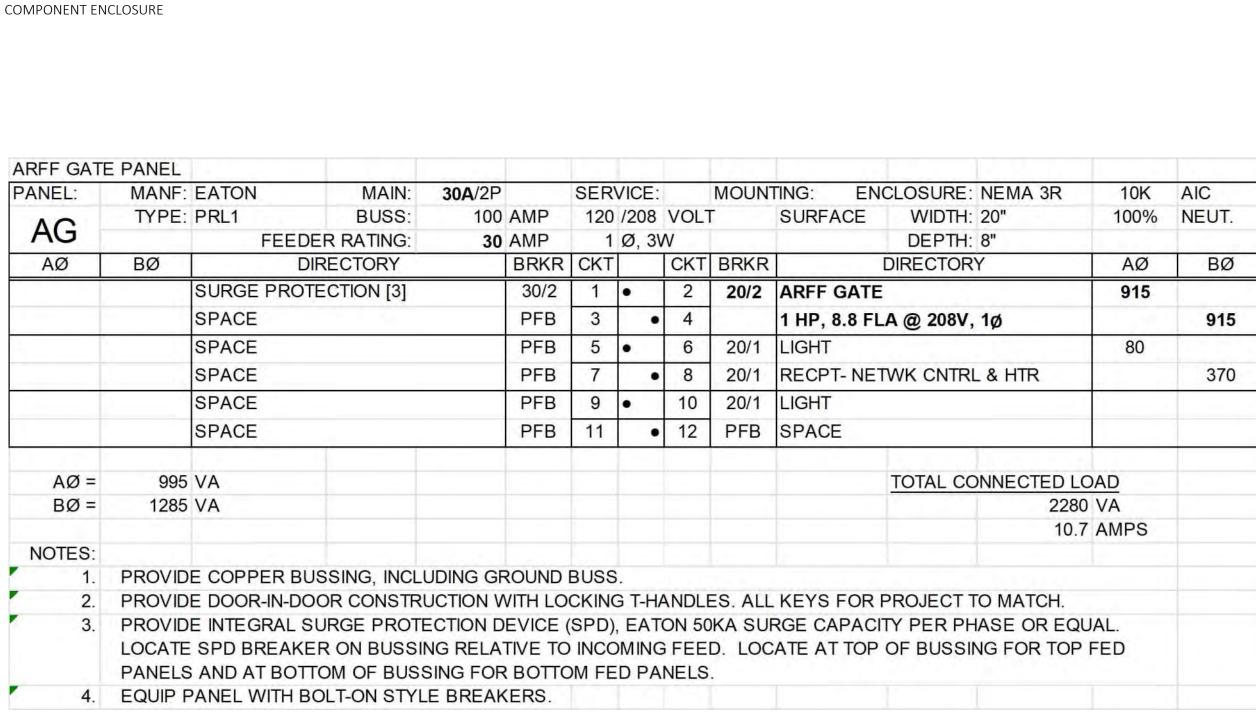
CHECKED PROJECT No. FILE 7522.C0701.Elect AS SHOWN SCALE SHEET No.

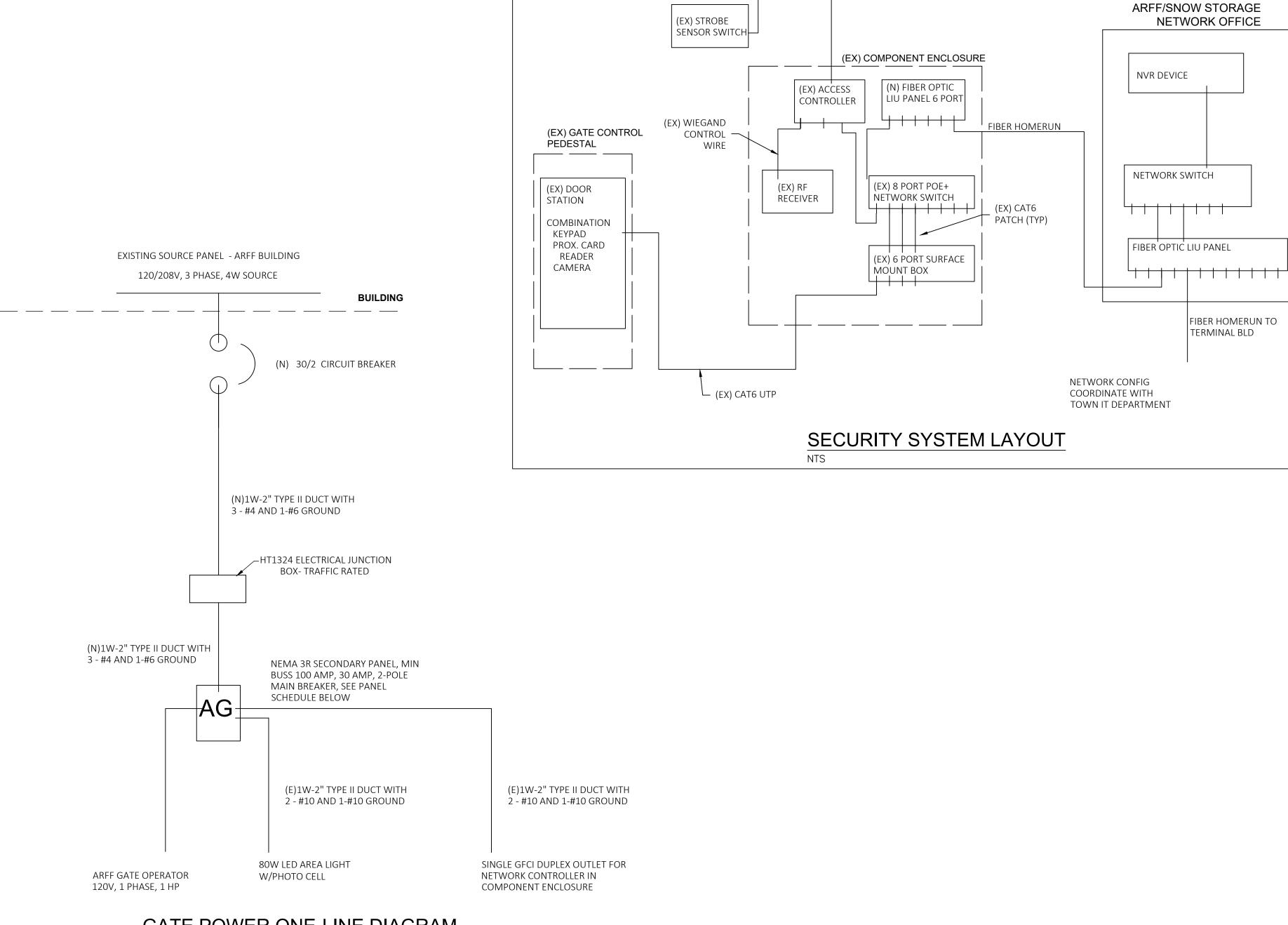
C07-02

MAMMOTH

DRAWN







(EX) GATE

SLIDE DRIVER | CONTROL CABLE

GATE POWER ONE-LINE DIAGRAM

DATE 3/28/2025 DRAWN CHECKED MSB PROJECT No. FILE 7522.C0603.Fence SCALE AS SHOWN

SHEET No.

AIRPORT

YOSEMITE

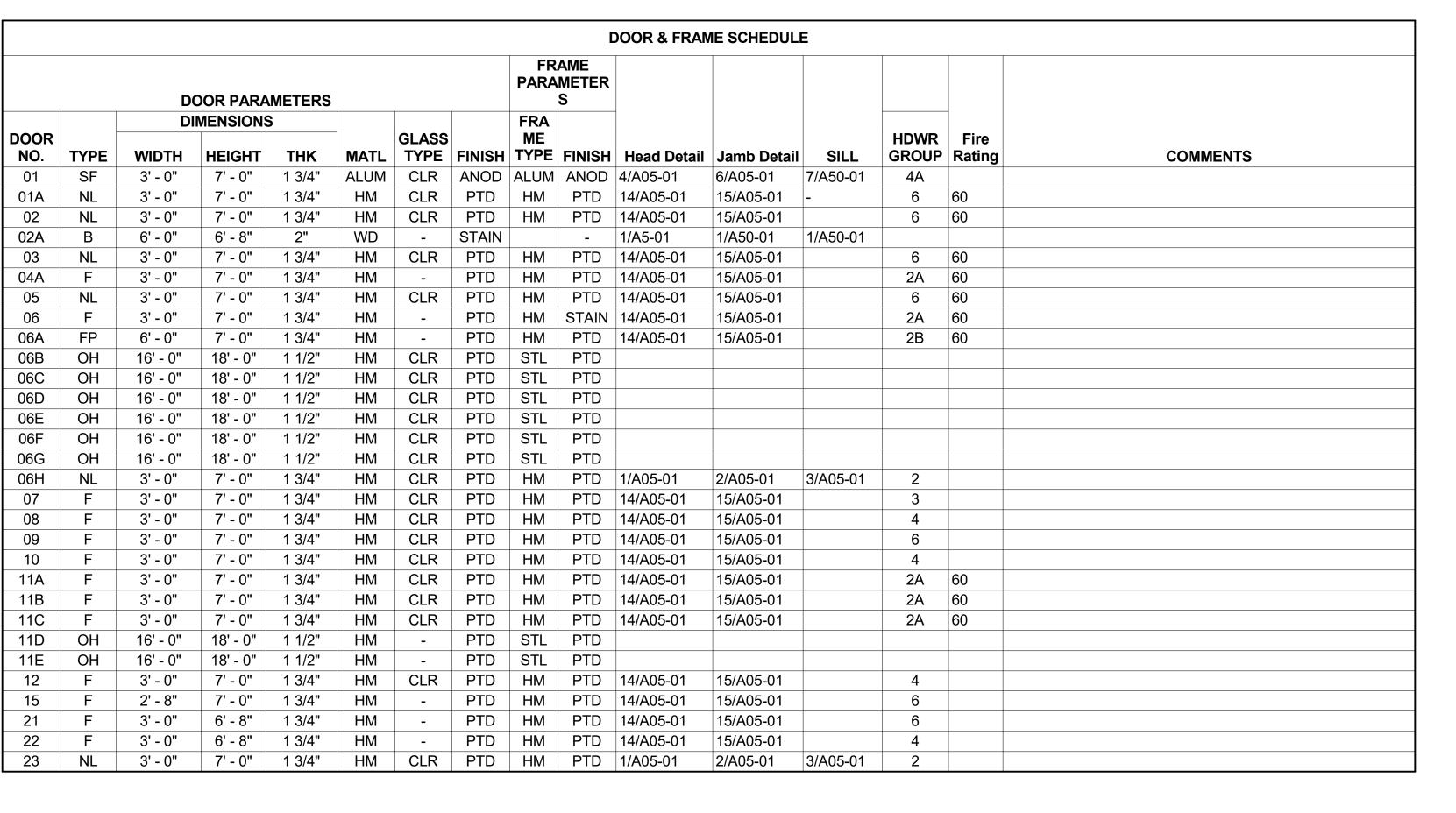
MAMMOTH

BUILDING
DETAILS

ARFF/SRE | ECTRICAL [

MULTIPURPOSE / ARFF GATE ELE

C07-03



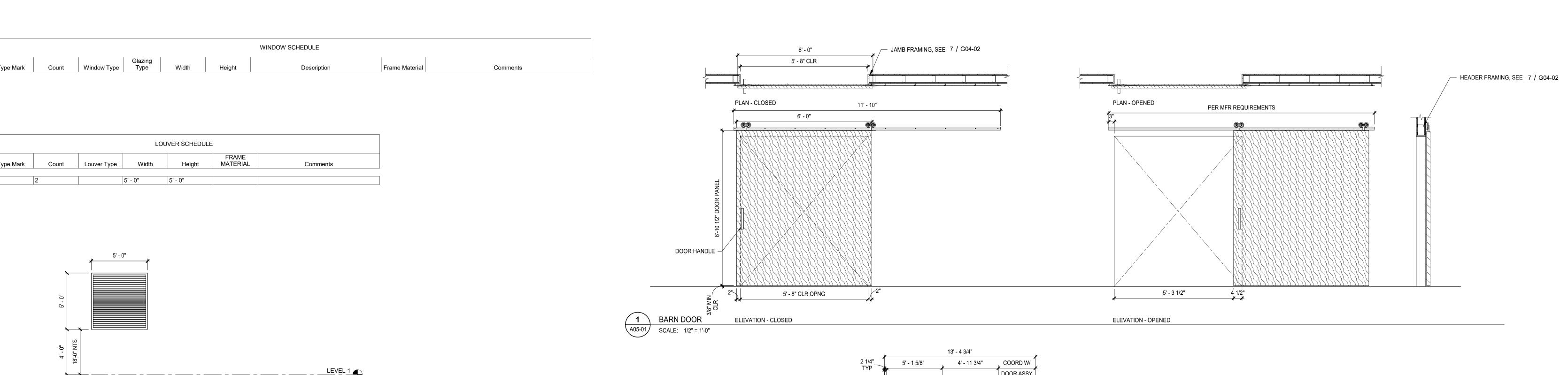




DOOR AND FRAME GENERAL NOTES

DESCRIPTION OF FINISHES AND COLOURS

1. REFER TO SPECIFICATIONS OR FINISH IDENTIFICATION SCHEDULE FOR



#3 - RESTROOM

1-FLOOR STOP

1-KICK PLATE

1-THRESHOLD

3-SIDES-SILENCER

3-HINGES

1-CLOSER

5BB1 4.5x4.5/652/IVE

4111/689/LCN

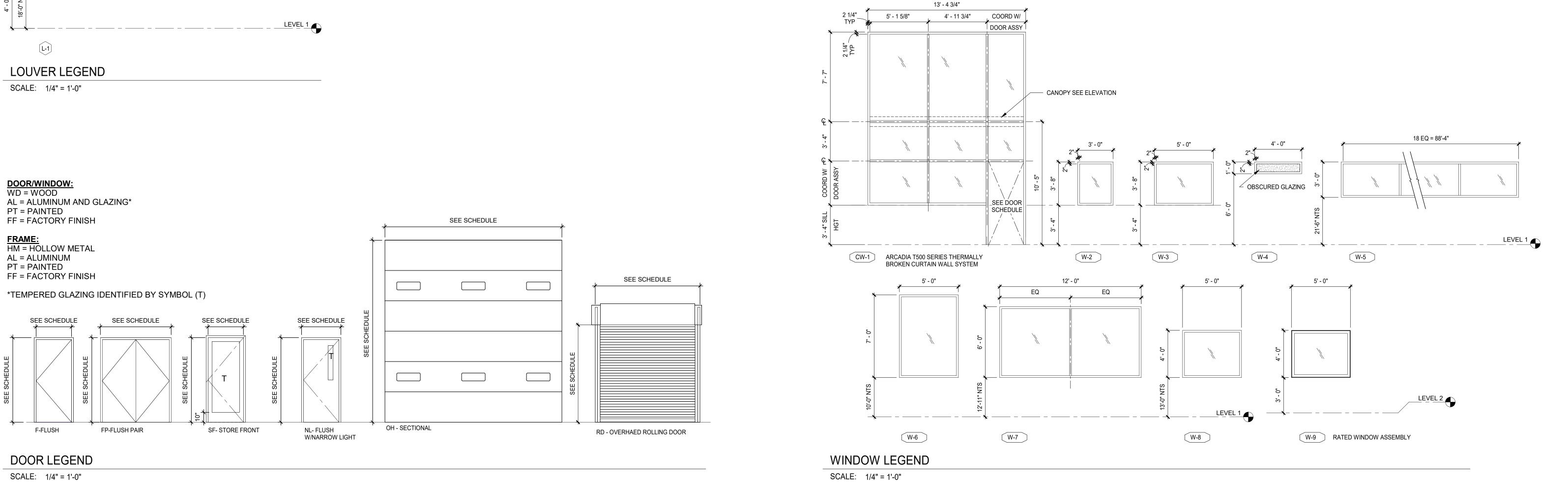
FS434630/IVE

8400 10X2/630/IVE

SR64GRY/IVE

346/689/IVE

1-ENTRY/OFFICE LOCK L9496 /626/SCH



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Mechanical: NORR
Electrical: NORR Fire Sprinkler: Sacramento Engineering Consultants NORR The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 Project Manager JON PRICE Project Leader MIKE NOVAK **MAMMOTH YOSEMITE AIRPORT** MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE** MAMMOTH, CALIFORNIA DOOR, WINDOW & LOUVER **SCHEDULES** As indicated IN2024-0022 A05-01 ARCH E Title Block - v.2023 - Rev (July/23) - Copyright © 2023

ISSUED FOR

DATE

	ROOM FINISH SCHEDULE									
ROOMS FLOORS			ORS	WALLS				CEILINGS		
NUMBER	NAME	FINISH	BASE	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	COMMENTS
01	ENTRY/LOBBY	CPT	RB	P2	P2	P4	P2	ACT	ACT	
02	TRAINING	CPT	RB	P2	P3	P2	P2	ACT	ACT	
03	BREAKROOM	LVT	RB	P5	P2	P2	P2	ACT	ACT	
04	BATHROOM	CT1	СВ	CWT1/P2	CWT1/P2	CWT1/P2	CWT1/P2	GWB	P1	FLOOR TILE GROUT - GRT1, WALL GROUT - GRT2
05	WORKSHOP	P7	RB	P2	P2	P2	P2	GWB	P1	
06	SRE GARAGE	P8		P2	P2	P2	P2			
07	RESTROOM	CT1	СВ	CWT1/P2	CWT1/P2	CWT1/P2	CWT1/P2	GWB	P1	FLOOR TILE GROUT - GRT1, WALL GROUT - GRT2
08	ELECTRICAL ROOM	P7	RB	PT	PT	PT	PT	GWB	P1	
09	OFFICE	CPT	RB	P2	P2	P2	P2	ACT	ACT	
10	STORAGE	P7	RB	P2	P2	P2	P2	GWB	P1	
11	ARFF BAY	P8	RB	FRP	FRP	FRP	FRP			
12	AGENT STORAGE	P7	RB	P2	P2	P2	P2	GWB	P1	
13	CORRIDOR	VCT	RB	P2	P2	P2	P2			
14	STAIRWAY	VCT	RB	P2		P2	P2			
15	JANITORS	P7	RB	FRP	FRP	FRP	FRP	GWB	P1	
20	MEZZANINE LANDING	VCT	RB	P2	P2	P2	P2			
21	WATCH ROOM	CPT	RB	P2	P2	P2	P2	ACT	ACT	
22	STORAGE	P7	RB	P2	P2	P2	P2	GWB	P1	

P1) SHERWIN WILLIAMS - SW 7005 - PURE WHITE		SSM) CORIAN - SAGEBRUSH	
P2) SHERWIN WILLIAMS - SW 7011 - NATURAL CHOICE		CPT) BENLEY - 400076 - FREE DAY/TOTE BAG	
P3) SHERWIN WILLIAMS - SW 9038 - CUCUZZA VERDE		RB) ROPPE - 100 - BLACK (4" BASE)	
P4) SHERWIN WILLIAMS - SW 6433 - INVERNESS		FRP) CRANE COMPOSITE - SEQUENTIA - 1130 FLAT WHITE (CLASS A)	
P5) SHERWIN WILLIAMS - SW 9097 - SOFT FAWN		SV) FORBO FLOORING - ETERNAL (COLOR TBD)	
P5) SHERWIN WILLIAMS - SW 9114 - FALLEN LEAVES		CT1) DALTILE - VL72 - INTENSITY PEBBLE FLOOR TILE (12"X24") CB) (6"X12")	
LVT) MILLIKEN - WOOD KAKUTAN LVT PLANK		CWT1) DALTILE - MU16 - MULTITUDE/ORIGAMI WHITE, FIELD TILE (12"X24") CWT2) DALTILE - MU16 - MULTITUDE/ORIGAMI WHITE-HEXAGON	
PLAM-1) WILSONART - FIELD ELM		GROUT - CUSTOM BUILDING PRODUCTS - NATURAL GRAY #9 (SEAL GROUT, NON- SAND)	
PLAM-2) FORMICA - 7481 NATURAL BIRCH (TO MATCH DOOR LAMINATE)		GROUT - CUSTOM BUILDING PRODUCTS - BLEACHED WOOD #545 (SEAL GROUT, NON- SAND)	

FINISH LEGEND

<u>PAINT:</u>
P1) SHERWIN WILLIAMS - SW 7005 = PURE WHITE
P2) SHERWIN WILLIAMS - SW 7011 = NATURAL CHOICE P3) SHERWIN WILLIAMS - SW 9038 = CUCUZZA VERDE P4) SHERWIN WILLIAMS - SW 6433 = INVERNESS P5) SHERWIN WILLIAMS - SW 9097 = SOFT FAWN P6) SHERWIN WILLIAMS - SW 9114 = FALLEN LEAVES P7) H&C - WATER BASED CONCRETE WATERPROOF P8) SHERWIN WILLIAMS - DOT CONCRETE SEALER

<u>LVT:</u> LVT) MILLIKEN - WOOD KAKUTAN LVT PLANK <u>PLASTIC LAMINATE:</u> PLAM) WILSONART FIELD ELM

SOLID SURFACE: SSM) CORIAN <u>SAGEBRUSH</u>

<u>CARPET:</u> CPT) BENTLEY - 400076 = FREE DAY / TOTE BAG

<u>BASE:</u> RB) ROPPE - 100 = BLACK (4")

FIBERGLASS REINFORCED PANEL: FRP) CRANE COMPOSITE - SEQUENTIA - 1130 FLAT WHITE (CLASS A)

<u>SHEET VINYL:</u> SV) FORBO FLOORING - ETERNAL - (COLOR TBD)

<u>PLASTIC LAMINATE:</u> PLAM) FORMICA - 7481 NATURAL BIRCH (TO MATCH DOOR LAMINATE)

<u>DOORS:</u> CLEAR FINISH BIRCH VENEER DOORS

TOILET PARTITION ASI - COLOR-THRU PHENOLIC - 3010 DOVE

DOORS CLEAR FINISH BIRCH

VENEER

GRAY

FURNITURE MATRIX

NEW/INC. IN BID: Contractor shall furnish and assemble the following furniture.

• Lobby waiting chairs and desk chair @ Town's Expense First Aid/Medical room desk and chair @ Town's Expense

MOVING OVER/TOWN FUNISHED: Owner will furnish and assemble/install the following furniture Lobby reception desk (40"x70"x42"H), copier (42"w x 30"d)

• Storage next to Lobby door in Vehicle Bay storage cabinet (19"d x 42"w x 53"

CWT2) DALTILE - MU16 = MULTITUDE/ORIGAMI WHITE (HEXAGON, 12"X24")

 Dayroom couch, chair, and table @ Town's Expense • Conference/Training room 8 chairs, 4 tables (or one large table), large white board, new tv screen @ Town's Expense • Kitchen wall mounted bar top, cabinets, sink, dishwater, oven @ FAA's

 Kitchen table, chairs, refrigerator, recycle center @ Town's Expense Restroom lockers, changing benches @ Town's Expense

Watch/Alarm Room radio shelving mounted on wall @ FAA's Expense

Watch/alarm room desk and two chairs @ Town's Expense ARFF Chief Office desk and one storage cabinet @ Town's Expense
 ARFF Deputy Office guest chair, and storage cabinet @ Town's Expense
 Computer Training desk and two chairs @ Town's Expense

MOVING OVER/TOWN FUNISHED: Dayroom TV

Conference/Training room phone
Watch/Alarm Room plotter (28"d x 65"w), AWOS equipment (30"w x 25"d x ARFF Chief Office chairs and guest table • ARFF Deputy Office desk (30"x72"), personal chair, and bookshelf (11"x22"

Work table

End of Run Recycle Center

Firesh: Laminate 15, State

Asian Sand

Front end Top Sody and Base Finish: Top Finish:

Markerboard Finish

Top Firesh: 91 White Base Finish: 88 Black

x42"H)
• Computer Training copier Dorms beds and nightstands

FINISH ABBREVIATIONS

ACT = ACOUSTICAL CEILING TILE CPT = CARPET CT = CERAMIC TILE FF = FACTORY FINISH FRP = FIBERGLASS REINFORCED PANEL GRT = TILE GROUT GWB = GYPSUM WALL BOARD MP = METAL PANEL PLAM = PLASTIC LAMINATE P = PAINT PWD = PLYWOOD RB = RUBBER BASE SSM = SOLID SURFACE SV = SHEET VINYL SVW = STONE VENEER WAINSCOT

VCT = VINYL COMPOSITE TILE

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Project Component

DATE

ISSUED FOR

Consultants Survey: Brandley Engineering Civil: Kimley-Horn Architecture: NORR Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR

Fire Sprinkler: Sacramento Engineering Consultants

Interiors: NORR

NORR The Cannery 1631 Alhambra Blvd., Suite 100

Sacramento, CA, US 95816

norr.com

Project Manager

Checked Project Leader

MAMMOTH YOSEMITE **AIRPORT**

MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE**

MAMMOTH, CALIFORNIA
Drawing Title
ROOM FINISH SCHEDULE

As indicated

IN2024-0022

A06-01

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ACOUSTICAL CEILING:

CERAMIC TILE: FLOOR;

ARMSTRONG - OPTIMA TEGULAR 9/16"

WAĹL, FIELD TILE; PATTERN TBD

WALL, ACCENT TILE; PATTERN TBD

ARMSTRONG - SUPER FINE = BLAZE WHITE

CT1) DALTILE - VL72 = INTENSITY PEBBLE (12"X24")

CB) DALTILE - VL72 = INTENSITY PEBBLE (6"X12")

TOILET PARTITION
ASI - COLOR-THRU PHENOLIC - 3010 DOVE GRAY

CWT1) DATILE - MU16 = MULTITUDE/ORIGAMI WHITE FLAT (12"X24")

GRT1) CUSTOM BUILDING PRODUCTS - #9 = NATURAL GRAY

GRT2) CUSTOM BUILDING PRODUCTS - #545 = BLEACHED WOOD

<u>LOCKERS:</u> ASI - PHENOLIC TRADITIONAL - 3010 DOVE GRAY (DOUBLE TIER)

















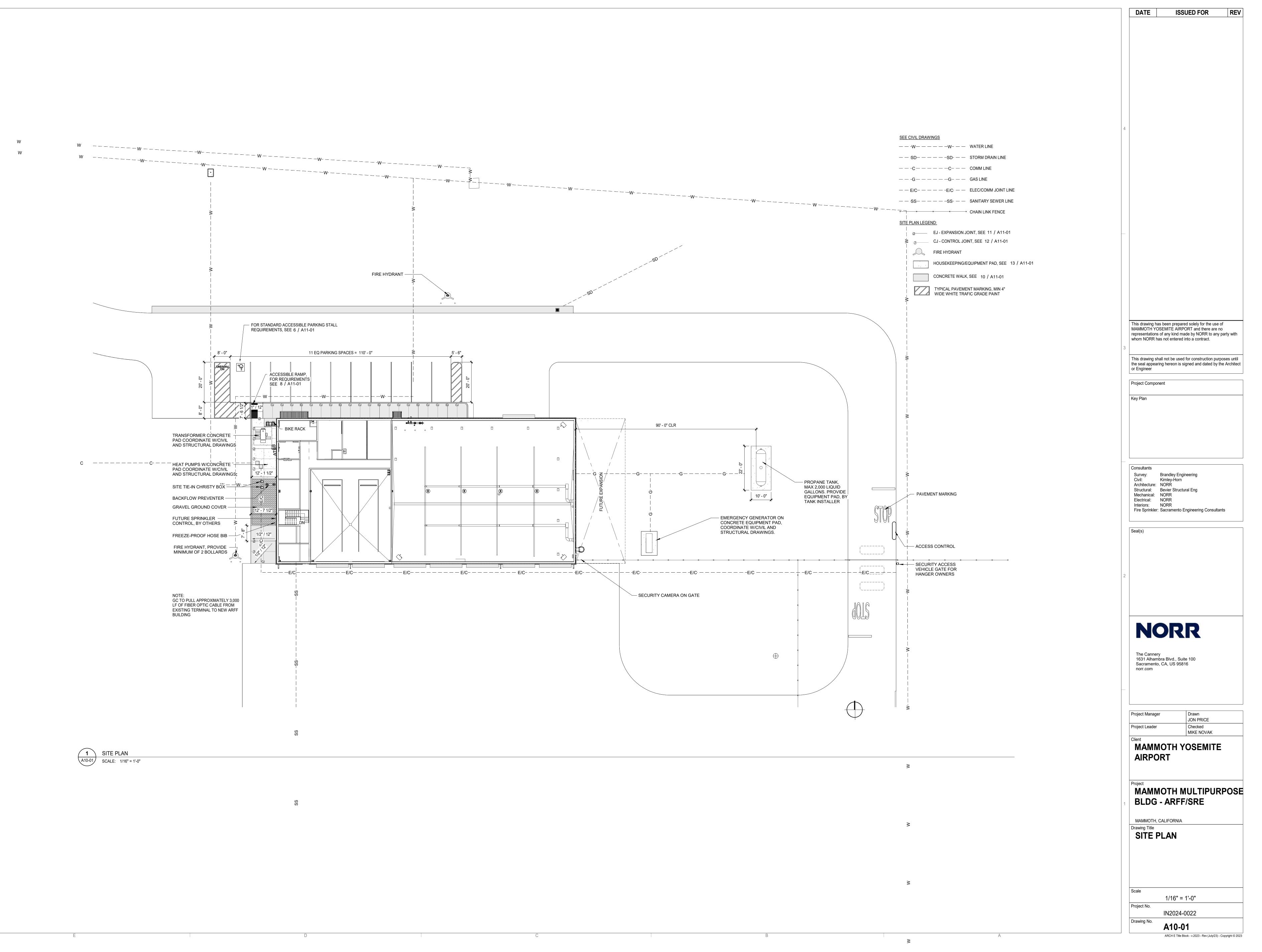


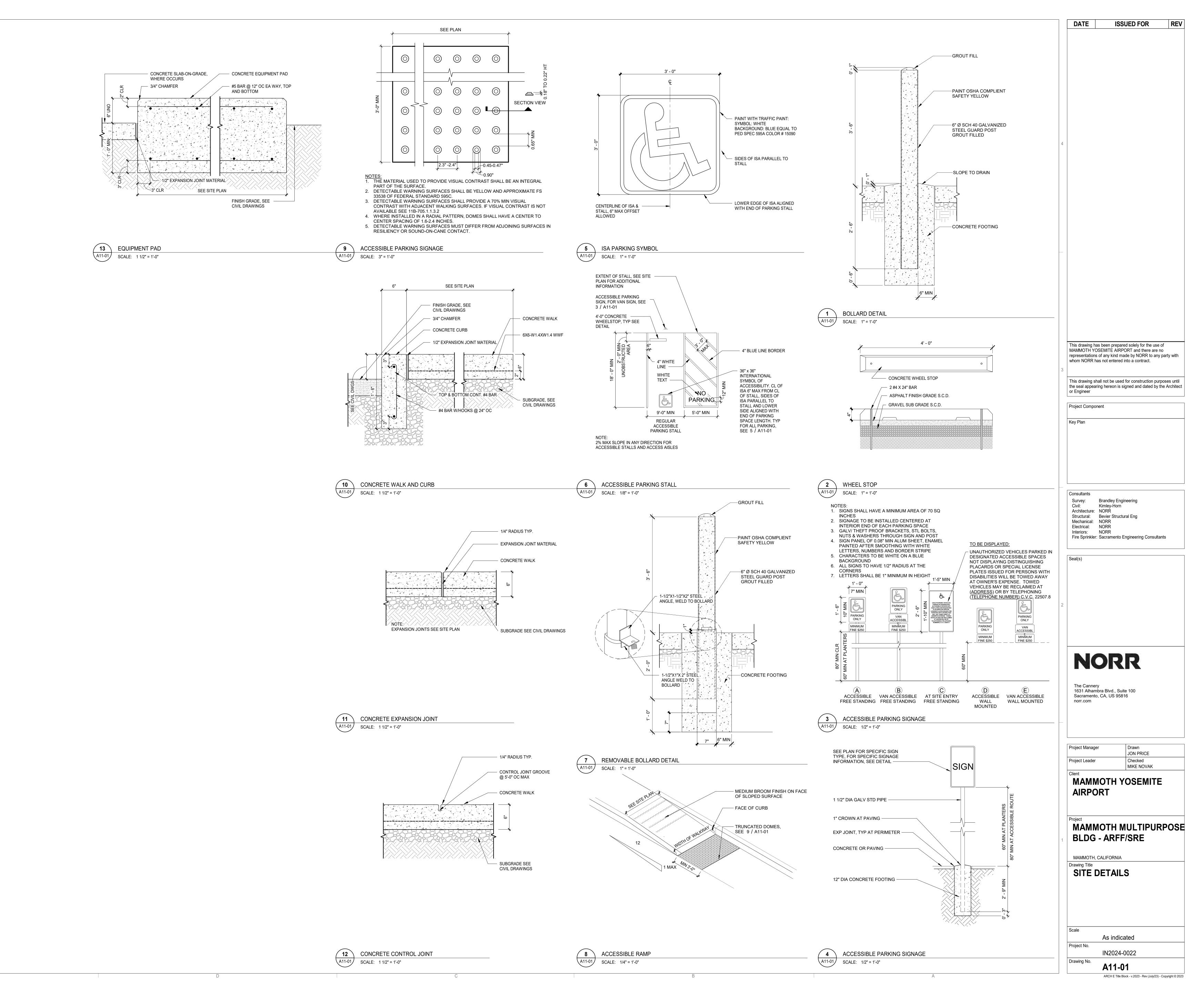


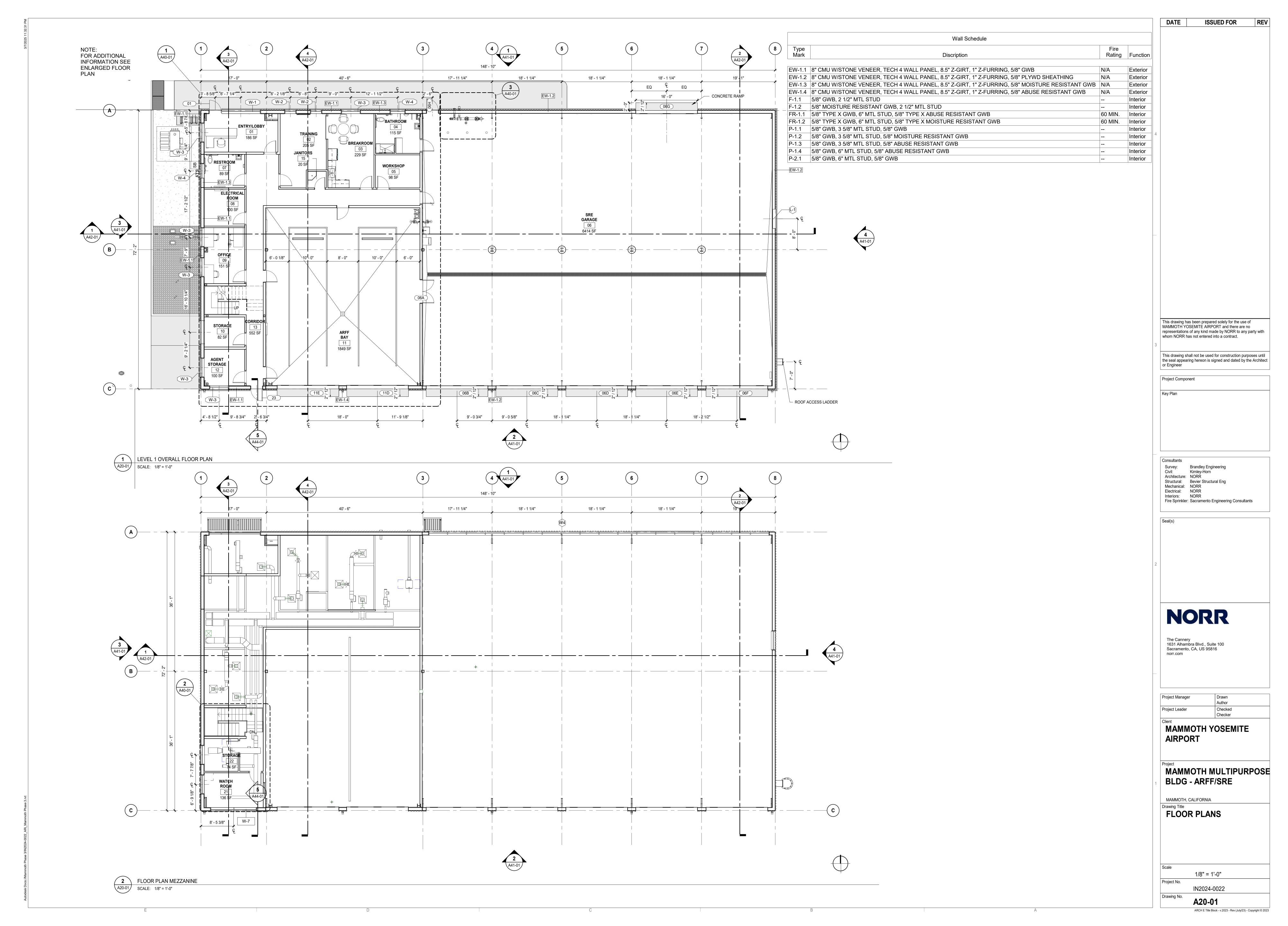
Medium Grey Maharam Medley

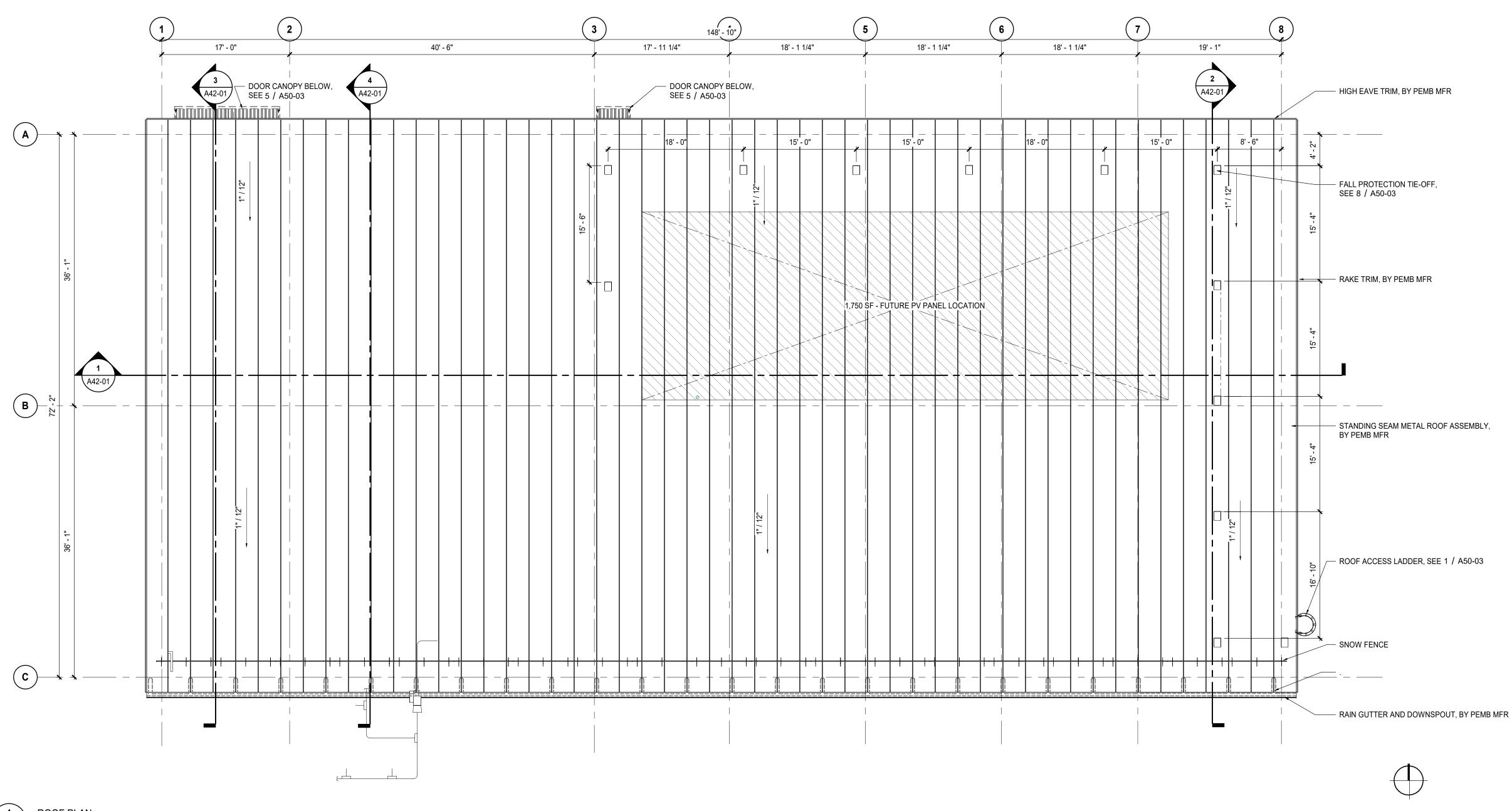


Shell Freigh: MGR Uphalstery: Leg Finish: Mirck









1 ROOF PLAN
A20-03 SCALE: 1/8" = 1'-0"

ISSUED FOR

DATE

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whom NORR has not entered into a contract.

This drawing has been prepared solely for the use of MAMMOTH YOSEMITE AIRPORT and there are no

representations of any kind made by NORR to any party with

Project Component

Key Plan

Consultants

Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager Checked Project Leader

Client MAMMOTH YOSEMITE **AIRPORT**

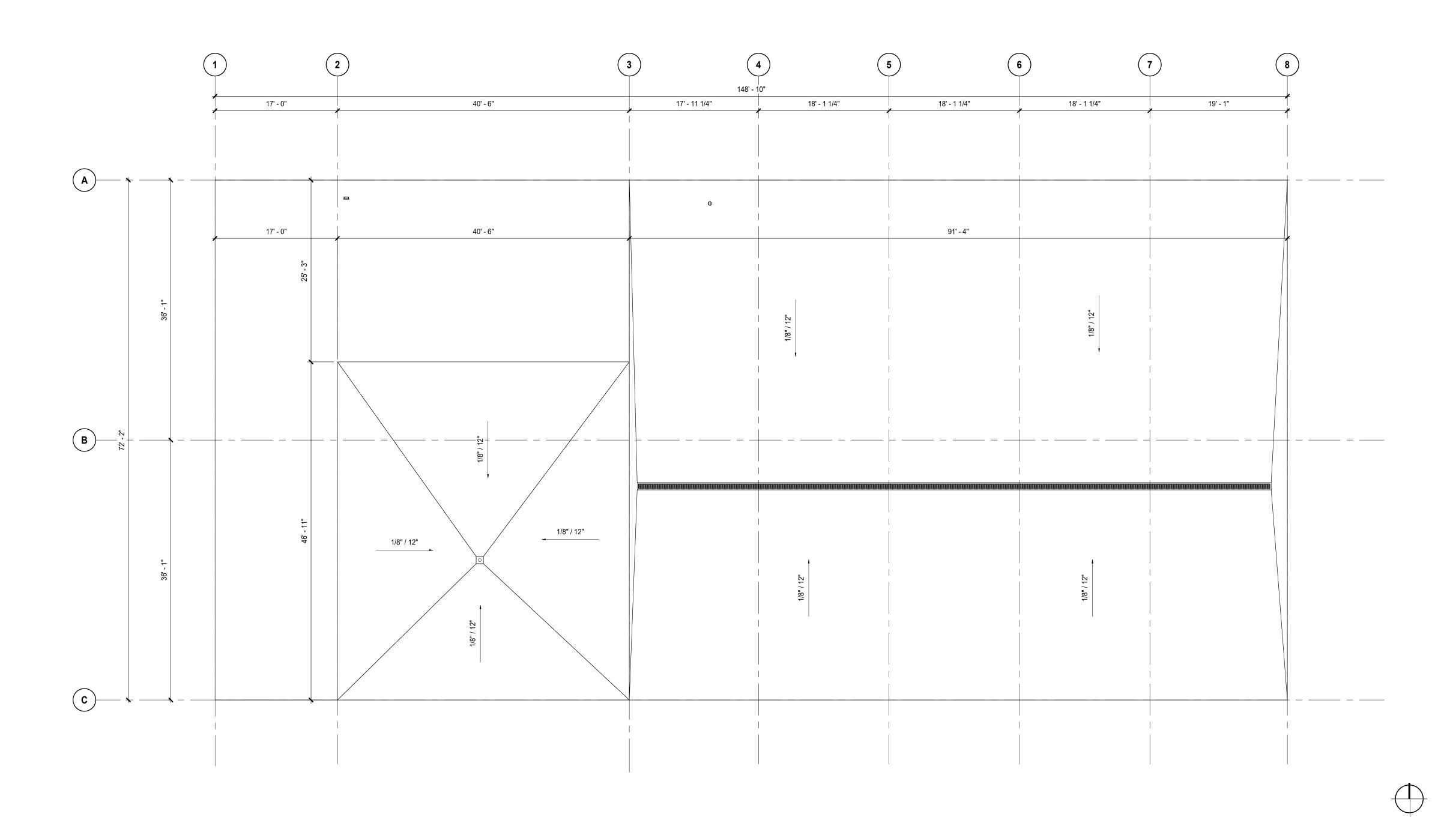
MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE

MAMMOTH, CALIFORNIA
Drawing Title
ROOF PLAN

1/8" = 1'-0"

IN2024-0022

A20-03



LEVEL 1 OVERALL FLOOR PLAN

A22-01 SCALE: 1/8" = 1'-0"

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Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

ISSUED FOR

NORR

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Drawn JON PRICE Project Manager Project Leader MIKE NOVAK

Client MAMMOTH YOSEMITE AIRPORT

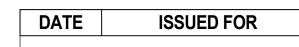
MAMMOTH MULTIPURPOSE

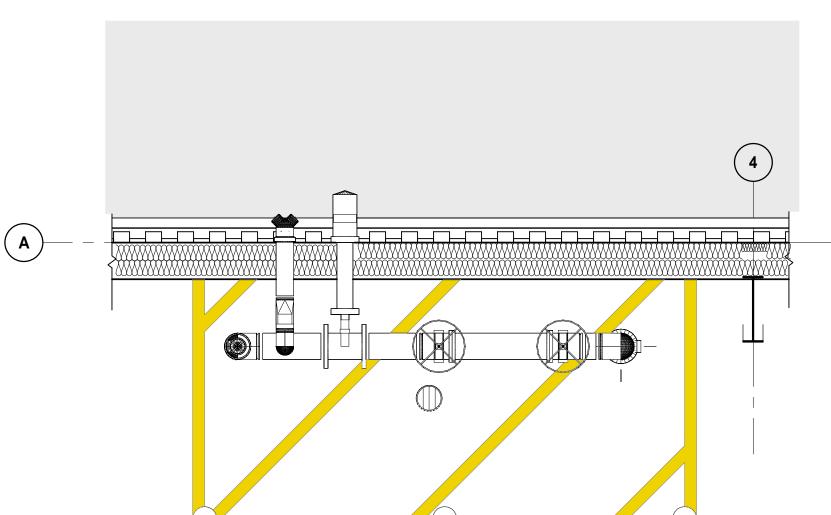
MAMMOTH, CALIFORNIA
Drawing Title
EDGE OF SLAB PLANS

BLDG - ARFF/SRE

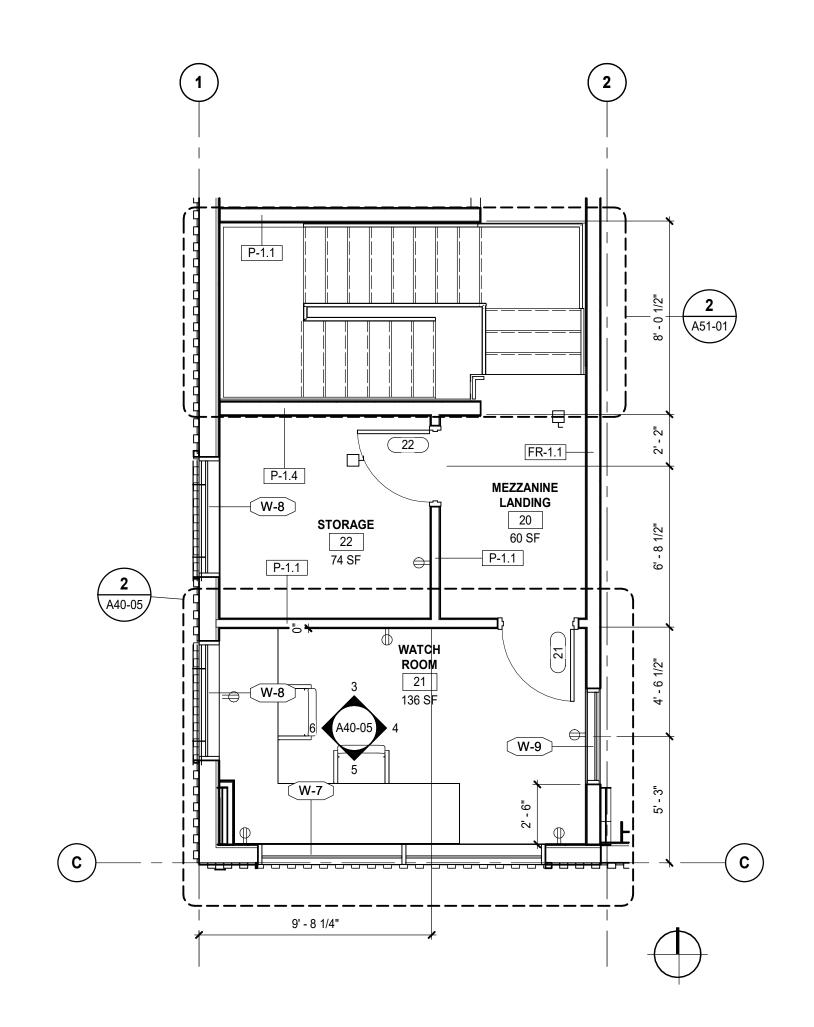
1/8" = 1'-0" IN2024-0022

A22-01





FLOOR PLAN LEVEL 1 - Callout 1 SCALE: 1/2" = 1'-0"



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

Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

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Project Component

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NORR

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Project Manager Project Leader

MAMMOTH YOSEMITE **AIRPORT**

MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE

MAMMOTH, CALIFORNIA
Drawing Title
ENLARGED FLOOR PLANS

As indicated IN2024-0022

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ENLARGED FLOOR PLAN LEVEL 1

A40-01 SCALE: 1/4" = 1'-0"

WALL HEIGHT LEGEND

PARTIAL HEIGHT TO 12'-0" AFF PARTIAL HEIGHT TO 13'-0" AFF

FULL HEIGHT TO STRUCTURE ABOVE

,~+----+-----

ELECTRICAL ROOM 08 100 SF

1A40-05

ENTRY/LOBBY

P-1.4 STORAGE 10 82 SF P-1.4 AGENT STORAGE 40' - 7 1/2" 11' - 4 1/2" 4' - 9 1/2"

BREAKROOM

Q 2' - 0 1/2" Q

ARFF BAY11
1849 SF

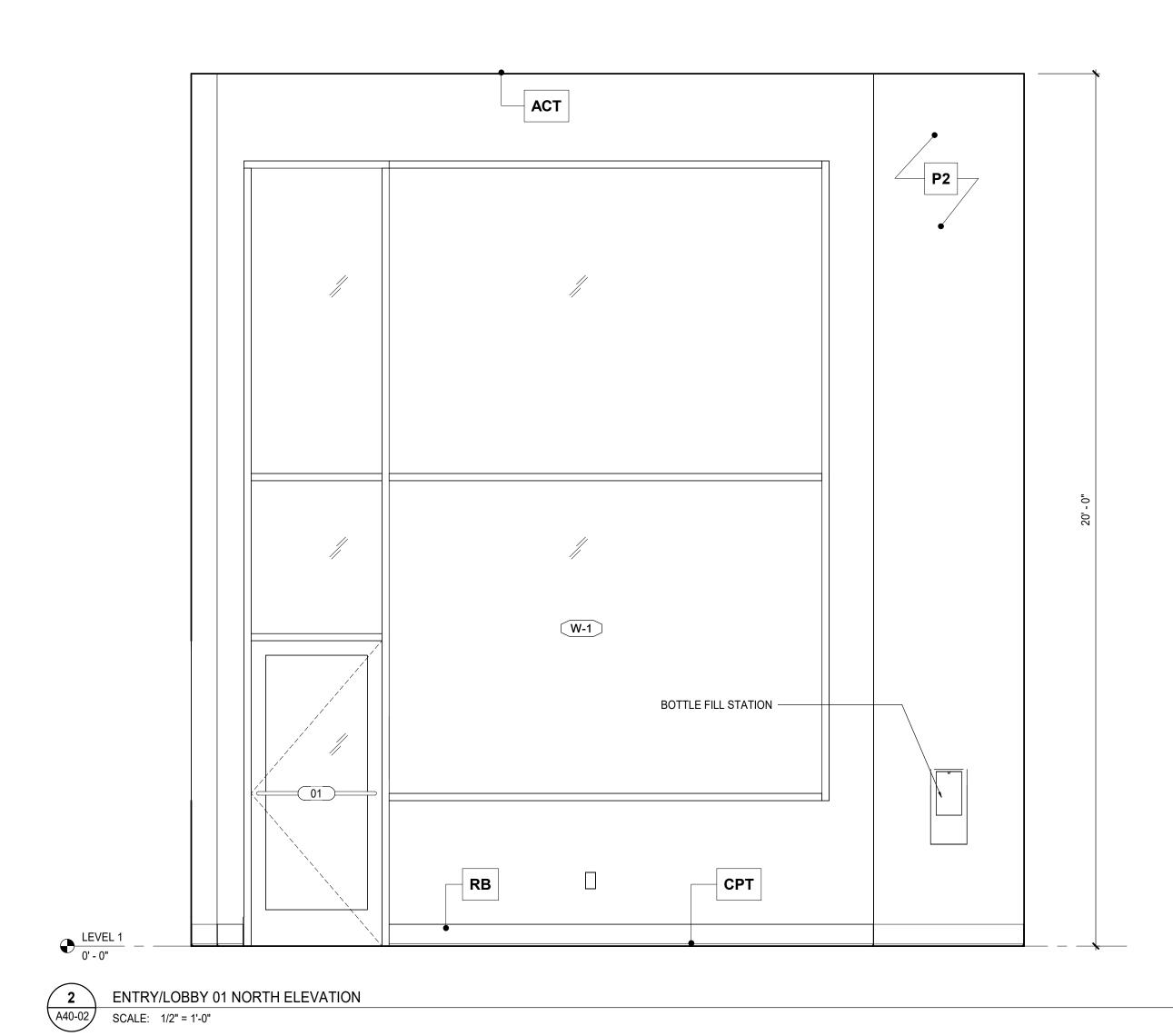
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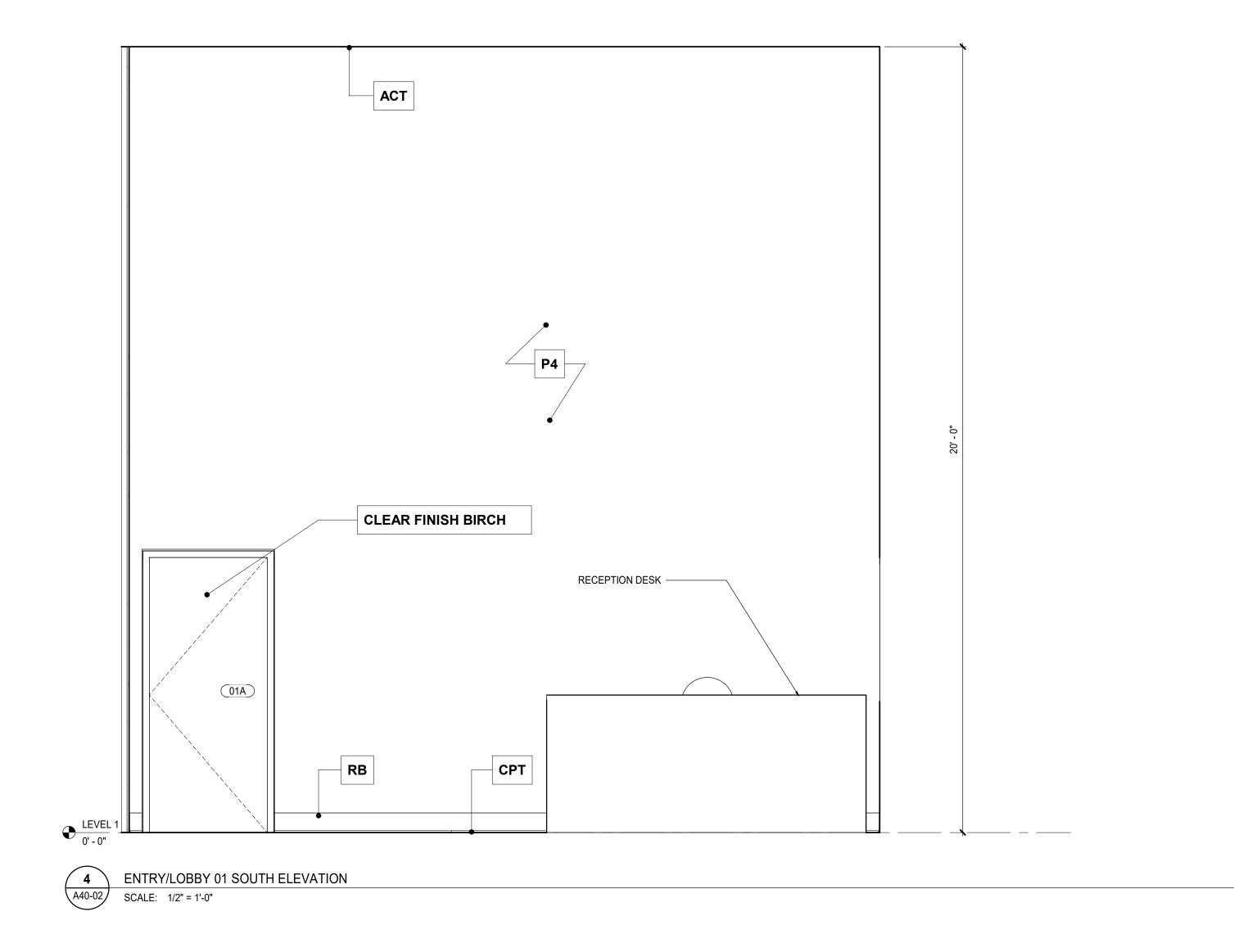
- GAS CYLINDER STORAGE RACK

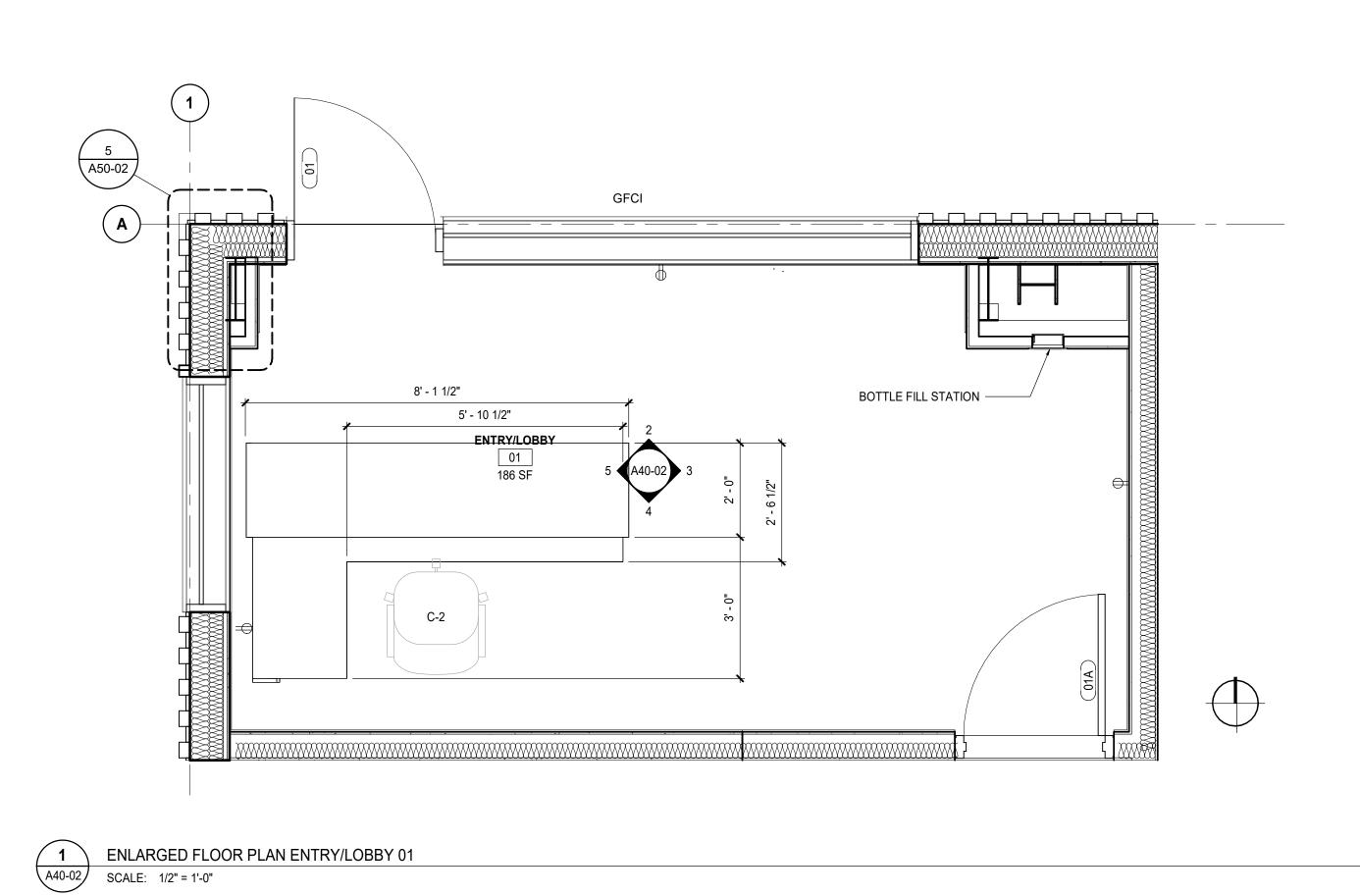
EMERGENCY EYE WASH/SHOWER

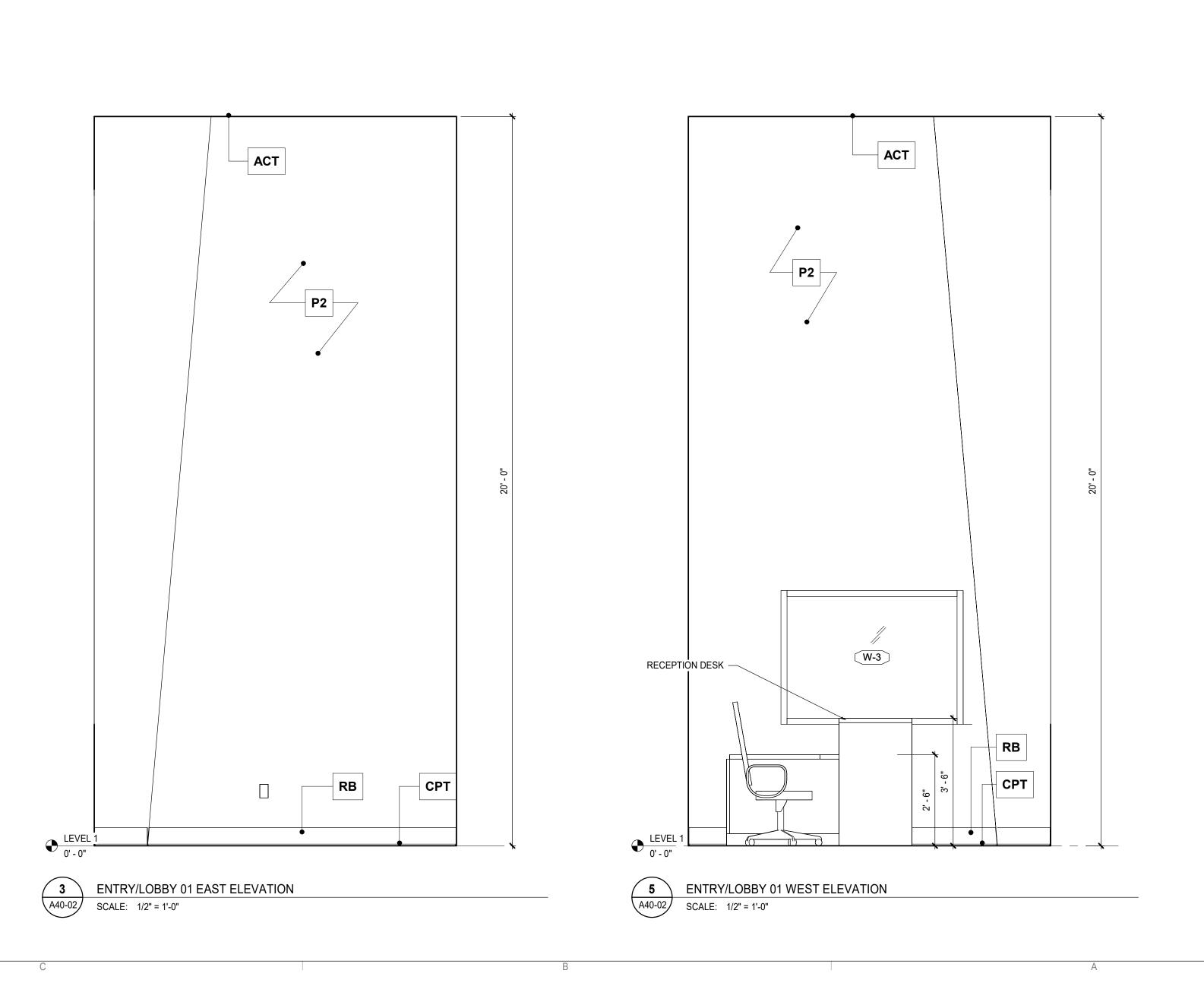
- STACKED WASHER AND DRYER

- **c**









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Civil: Kimley-Horn
Architecture: NORR
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Fire Sprinkler: Sacramento Engineering Consultants NORR The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 Drawn JON PRICE Project Manager Project Leader MIKE NOVAK Client MAMMOTH YOSEMITE AIRPORT MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE MAMMOTH, CALIFORNIA
Drawing Title
ENLARGED FLOOR PLANS **AND ELEVATIONS**

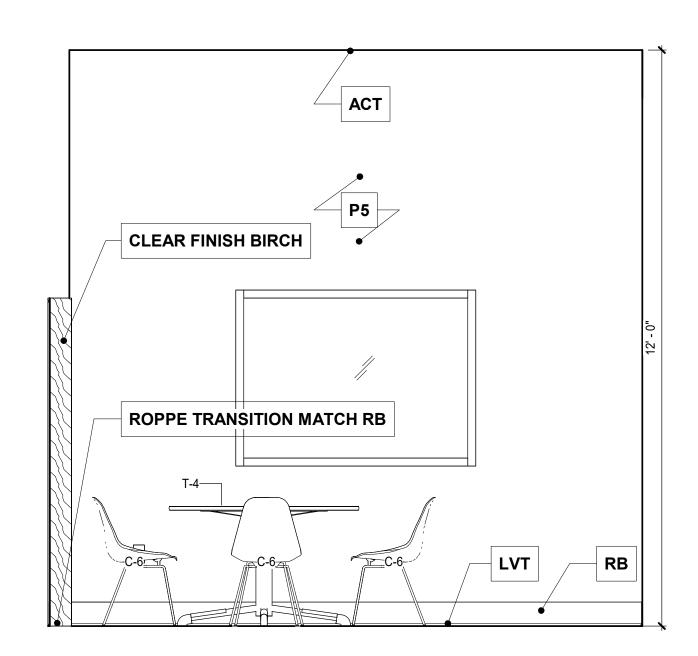
1/2" = 1'-0"

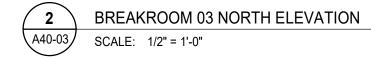
IN2024-0022

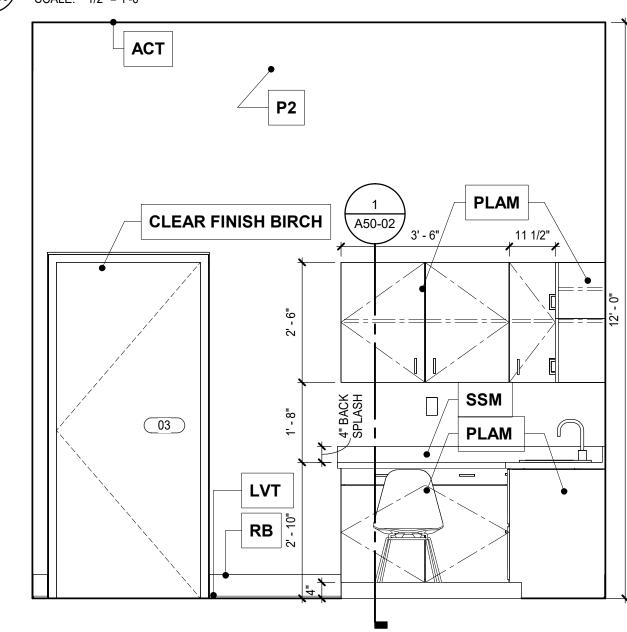
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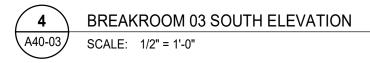
A40-02

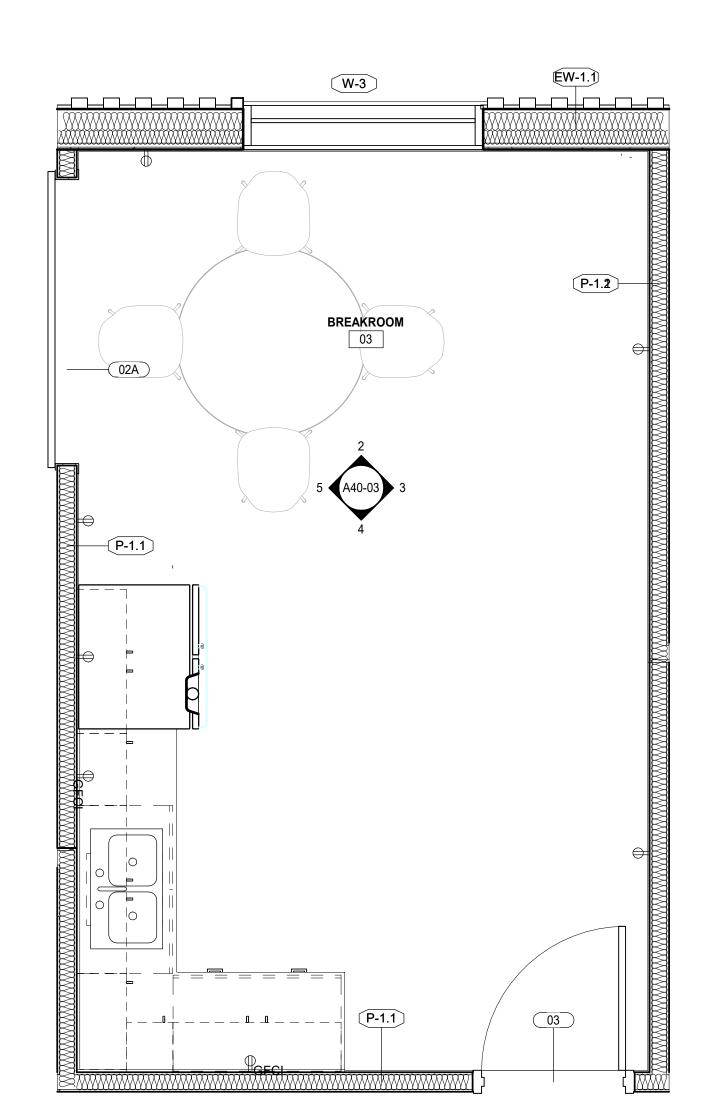
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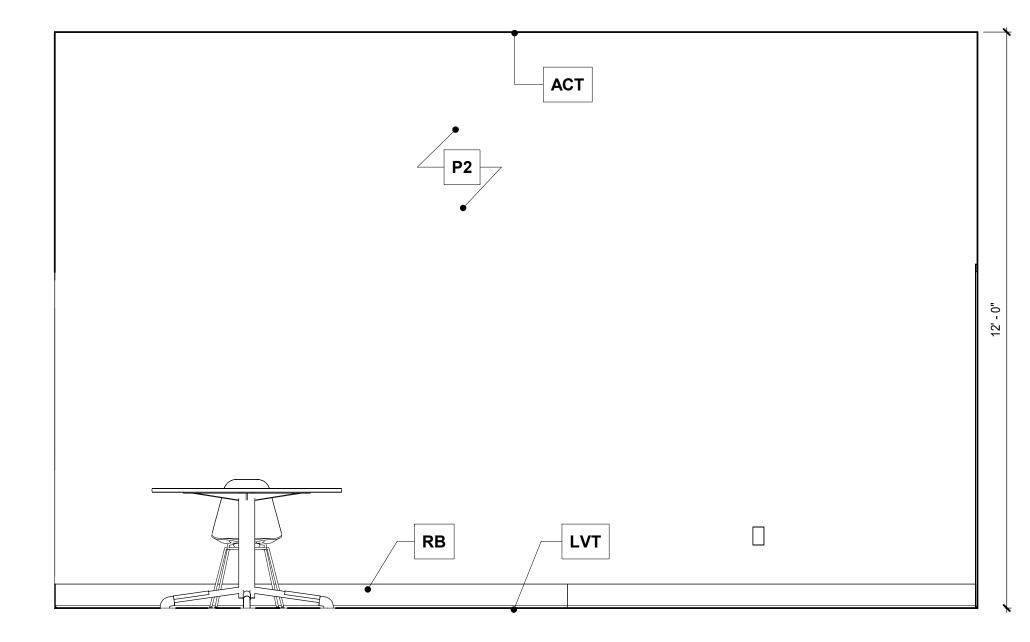




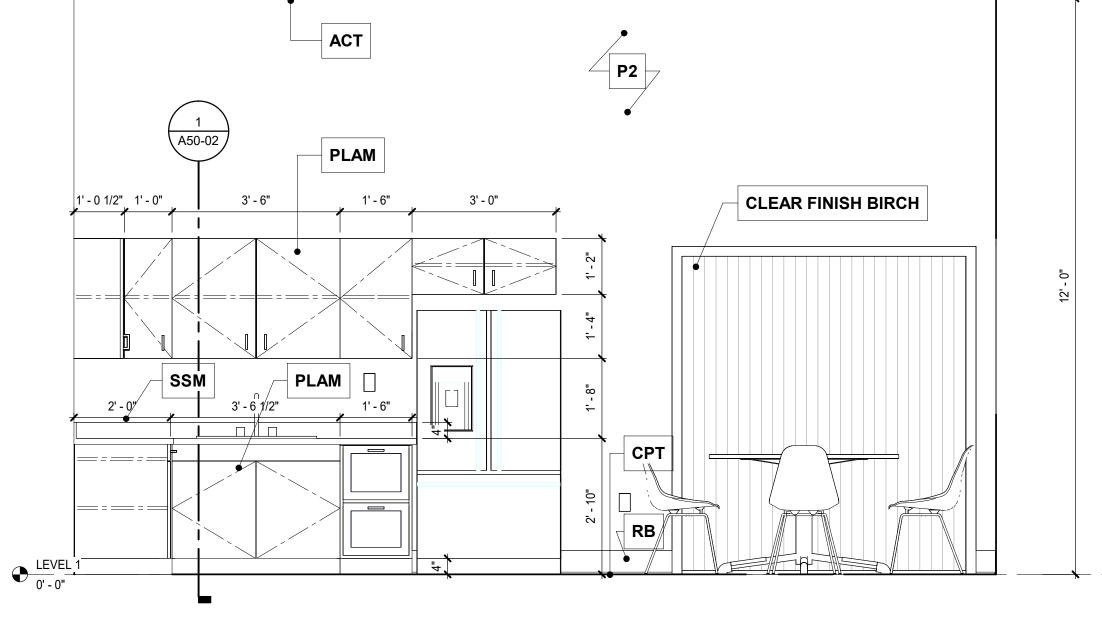








BREAKROOM 03 EAST ELEVATION SCALE: 1/2" = 1'-0"



BREAKROOM 03 WEST ELEVATION

A40-03 SCALE: 1/2" = 1'-0"

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ISSUED FOR

DATE

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Project Component

Survey: Brandley Engineering
Civil: Kimley-Horn
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NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816

Drawn JON PRICE Project Manager Project Leader MIKE NOVAK

MAMMOTH YOSEMITE AIRPORT

MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE

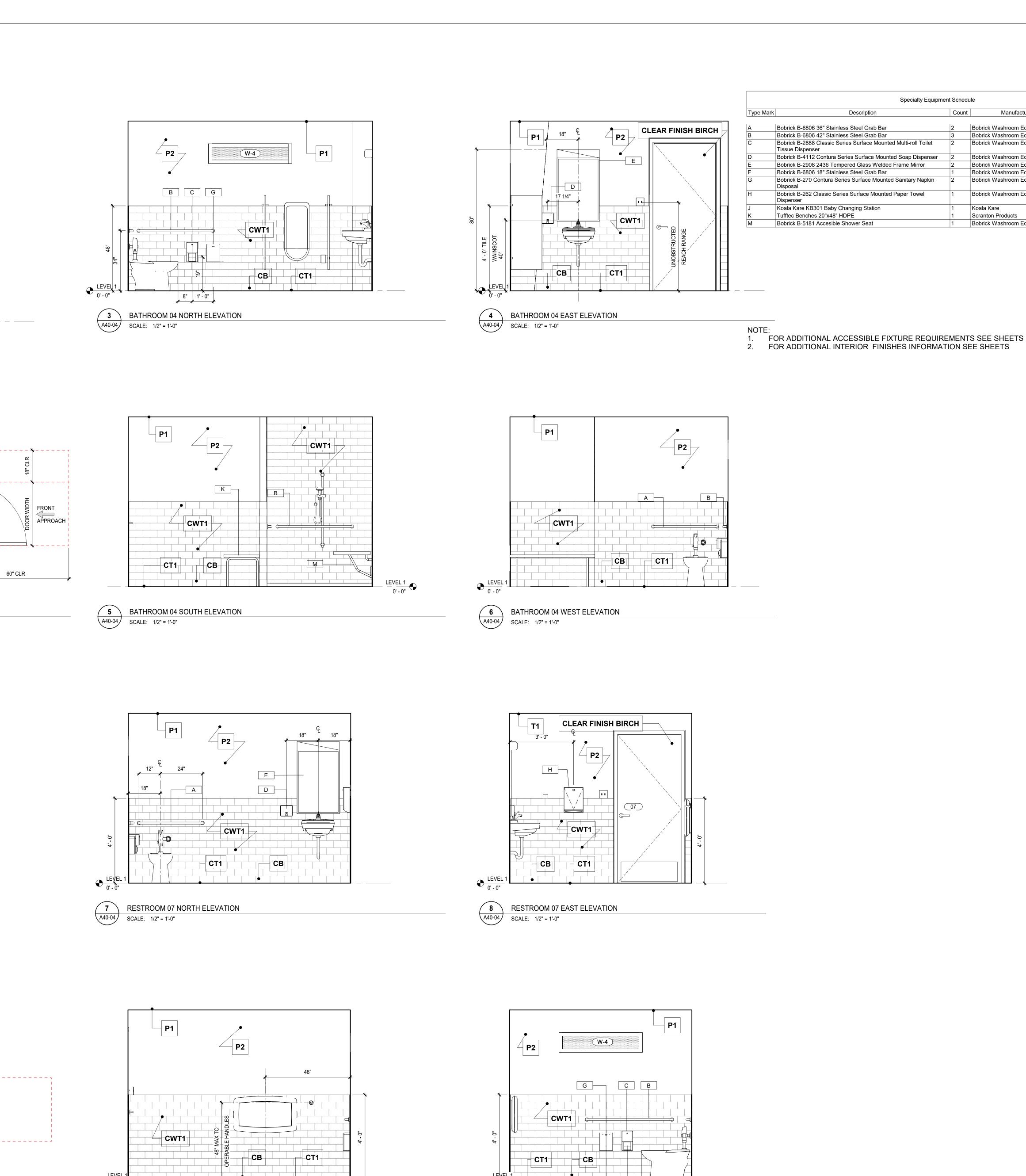
MAMMOTH, CALIFORNIA

Drawing Title

ENLARGED FLOOR PLANS **AND ELEVATIONS**

1/2" = 1'-0" IN2024-0022

A40-03



RESTROOM 07 WEST ELEVATION

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

___ A

ENLARGED FLOOR PLAN - BATHROOM 04

A40-04 SCALE: 1/2" = 1'-0"

EW-1.3

2 ENLARGED FLOOR PLAN - RESTROOM 07

A40-04 SCALE: 1/2" = 1'-0"

59 3/4" MIN

BATHROOM

04

48" CLR

RESTROOM 07 SOUTH ELEVATION

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

ISSUED FOR

DATE

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Project Component

Consultants

representations of any kind made by NORR to any party with

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Survey: Brandley Engineering
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Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816

MAMMOTH YOSEMITE

BLDG - ARFF/SRE

AND ELEVATIONS

1/2" = 1'-0"

IN2024-0022

MAMMOTH MULTIPURPOSE

MAMMOTH, CALIFORNIA
Drawing Title
ENLARGED FLOOR PLANS

Project Manager

Project Leader

AIRPORT

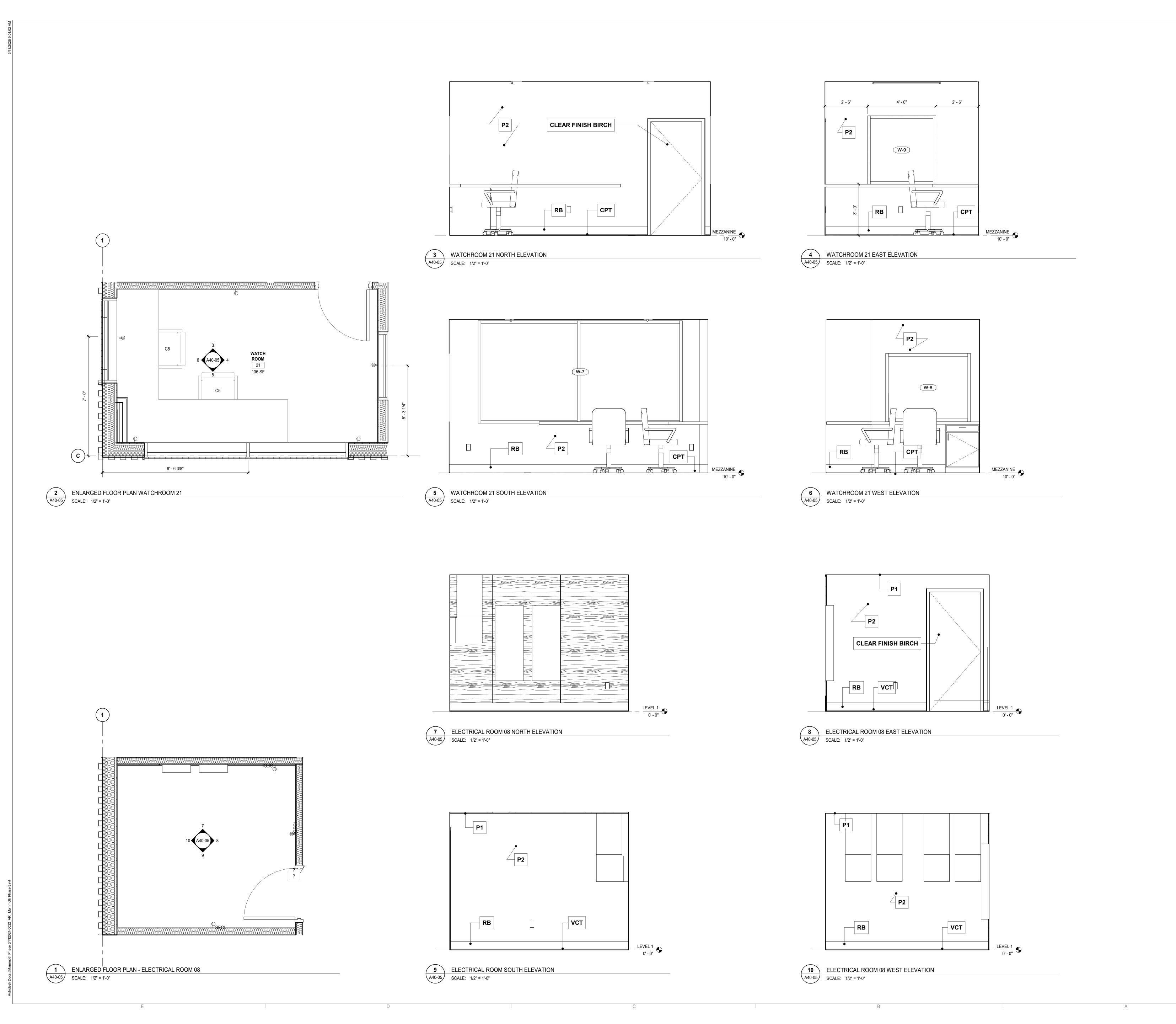
Comments

Manufacturer

Bobrick Washroom Equipment, Inc.

Koala Kare

Scranton Products



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BLDG - ARFF/SRE

AND ELEVATIONS

1/2" = 1'-0"

IN2024-0022

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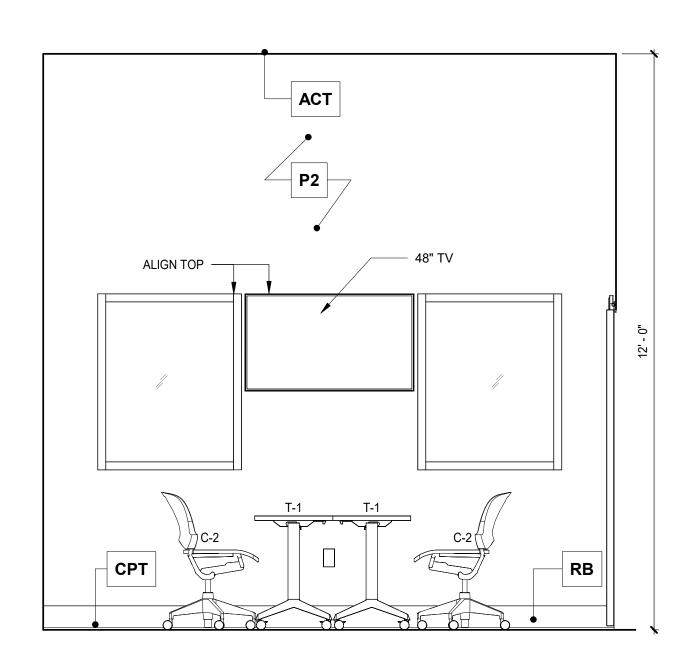
A40-05

MAMMOTH, CALIFORNIA
Drawing Title
ENLARGED FLOOR PLANS

ISSUED FOR

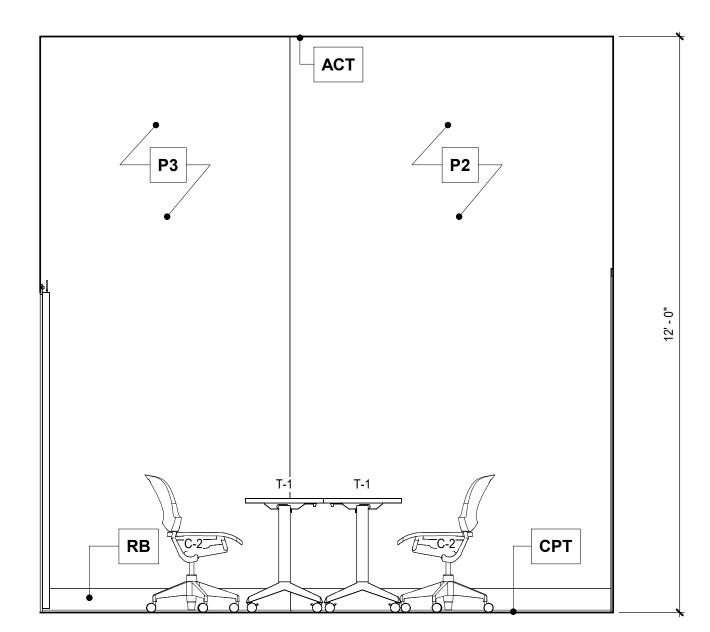
DATE





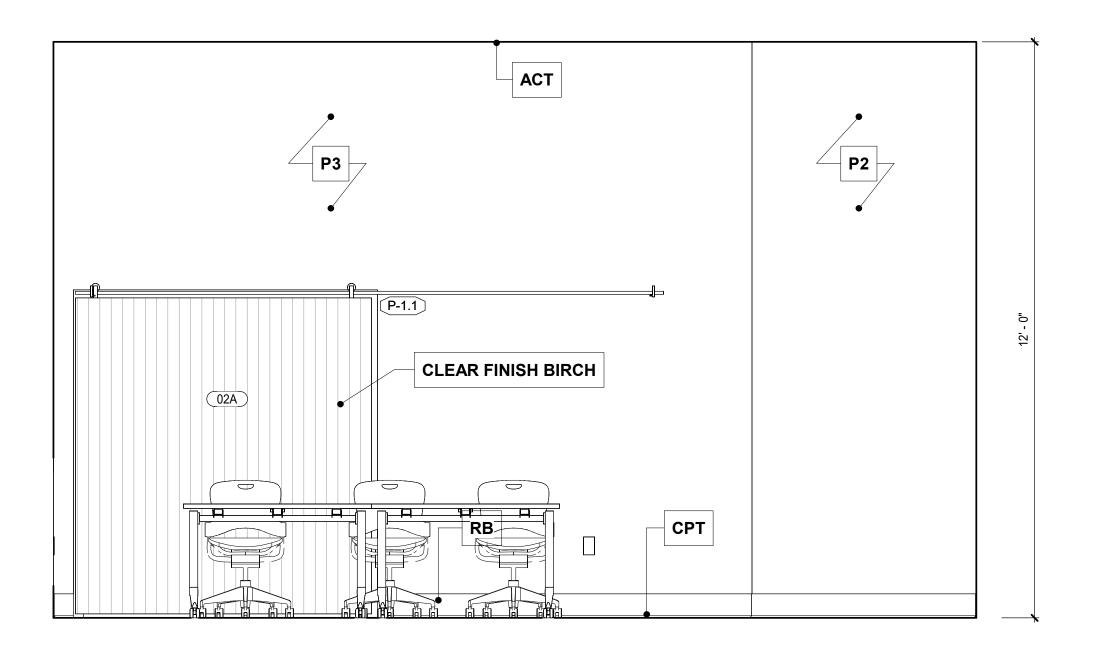
TRAINING 02 NORTH ELEVATION

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

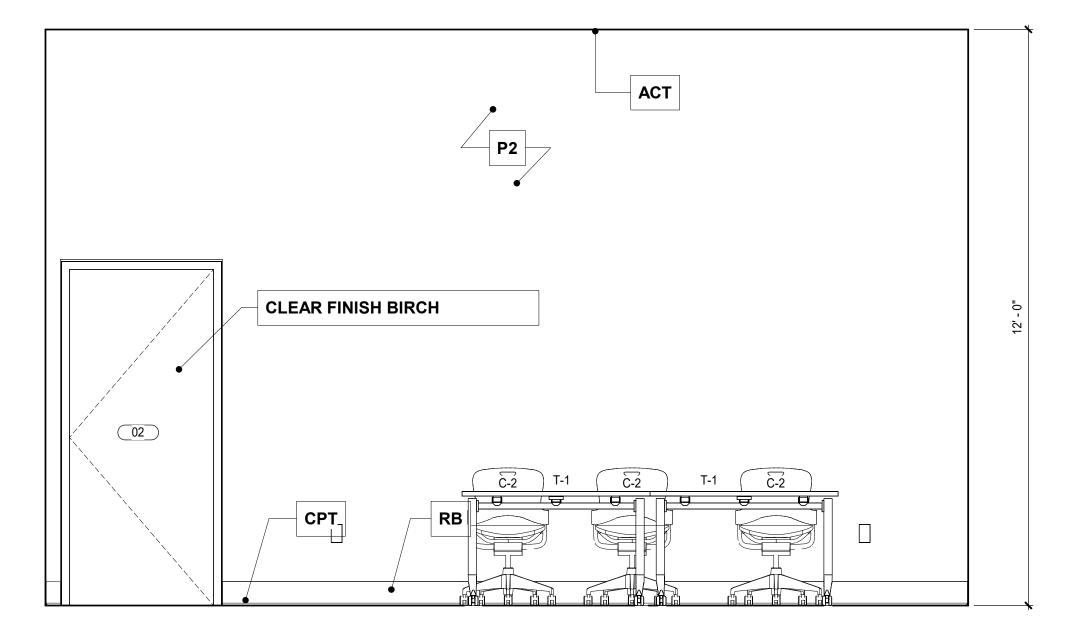


TRAING 02 SOUTH ELEVATION

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



3 TRAINING 02 EAS A40-06 SCALE: 1/2" = 1'-0" TRAINING 02 EAST ELEVATION



TRAINING 02 WEST ELEVATION

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

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Project Component Key Plan

DATE

ISSUED FOR

Consultants Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager Checked Project Leader

Client MAMMOTH YOSEMITE AIRPORT

MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE

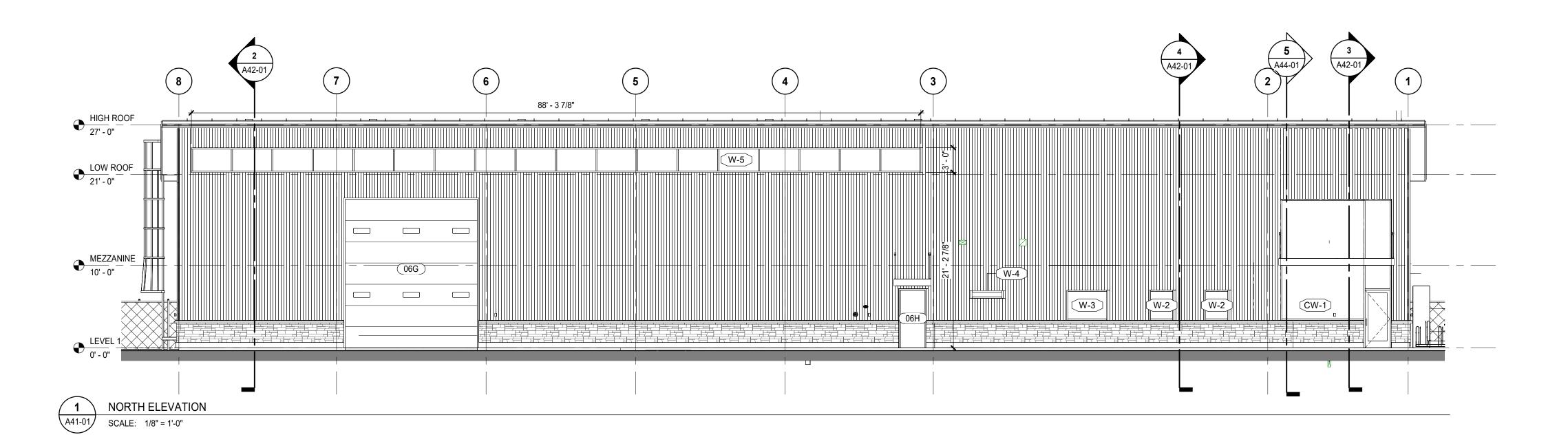
MAMMOTH, CALIFORNIA

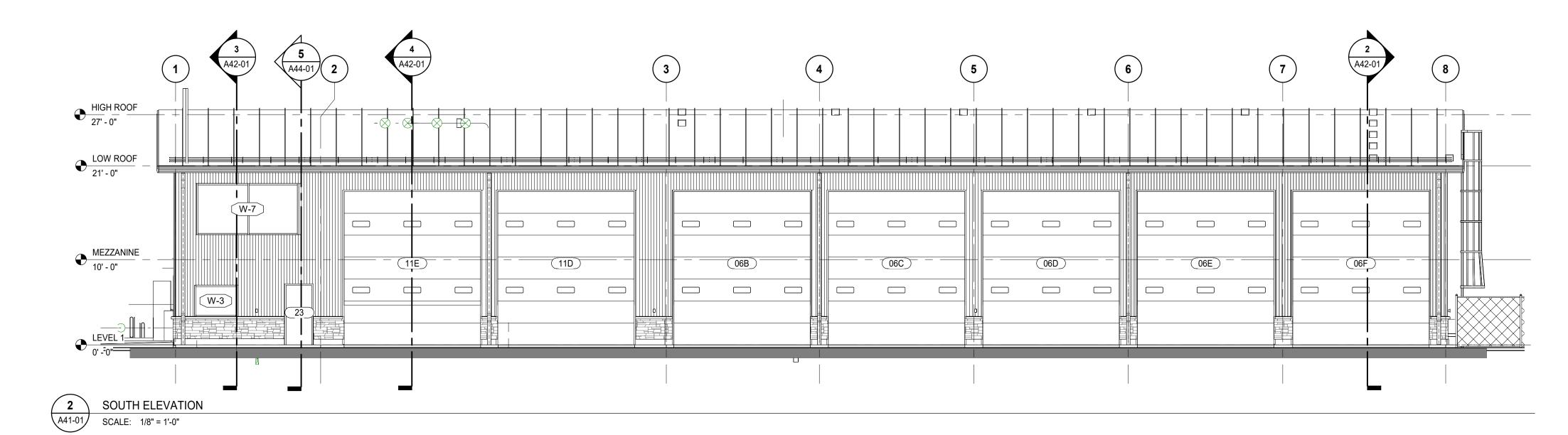
Drawing Title

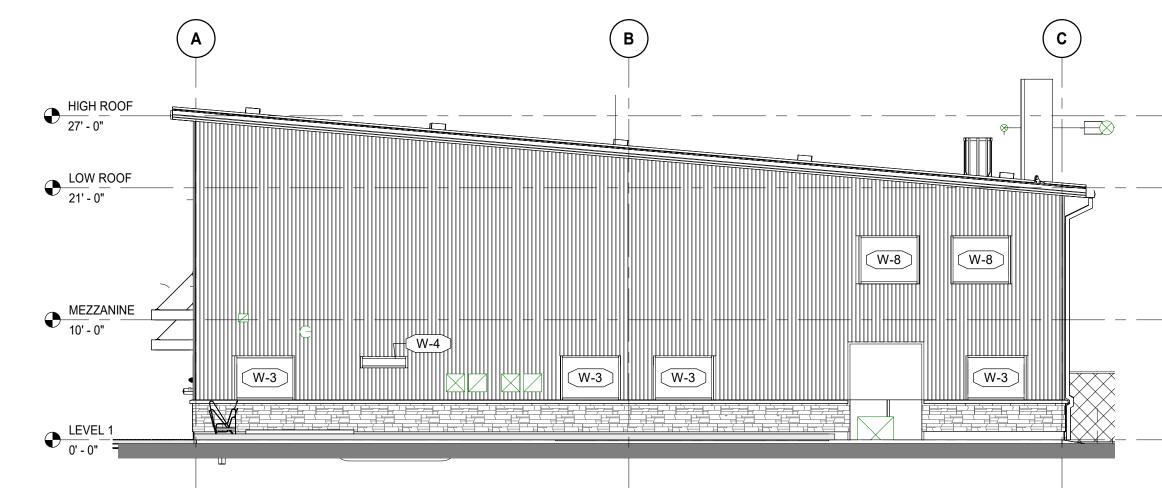
ENLARGED FLOOR PLANS AND ELEVATIONS

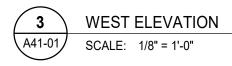
1/2" = 1'-0"

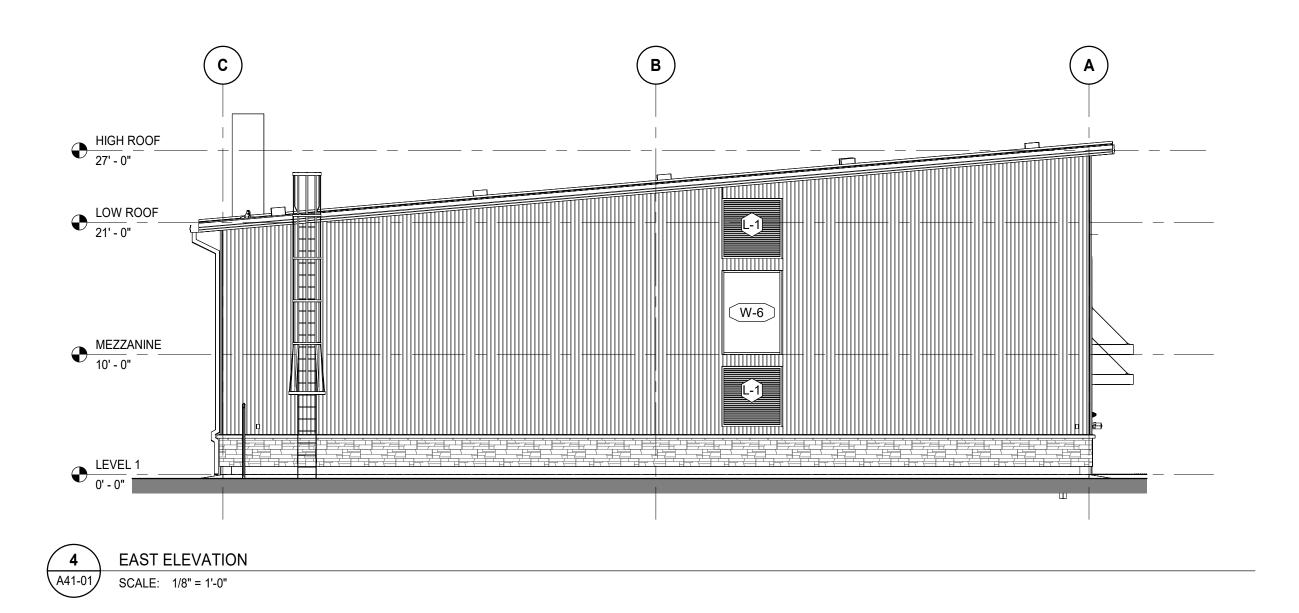
IN2024-0022 A40-06











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Project Component

DATE

ISSUED FOR

Key Plan

Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager Project Leader

Client MAMMOTH YOSEMITE AIRPORT

Project

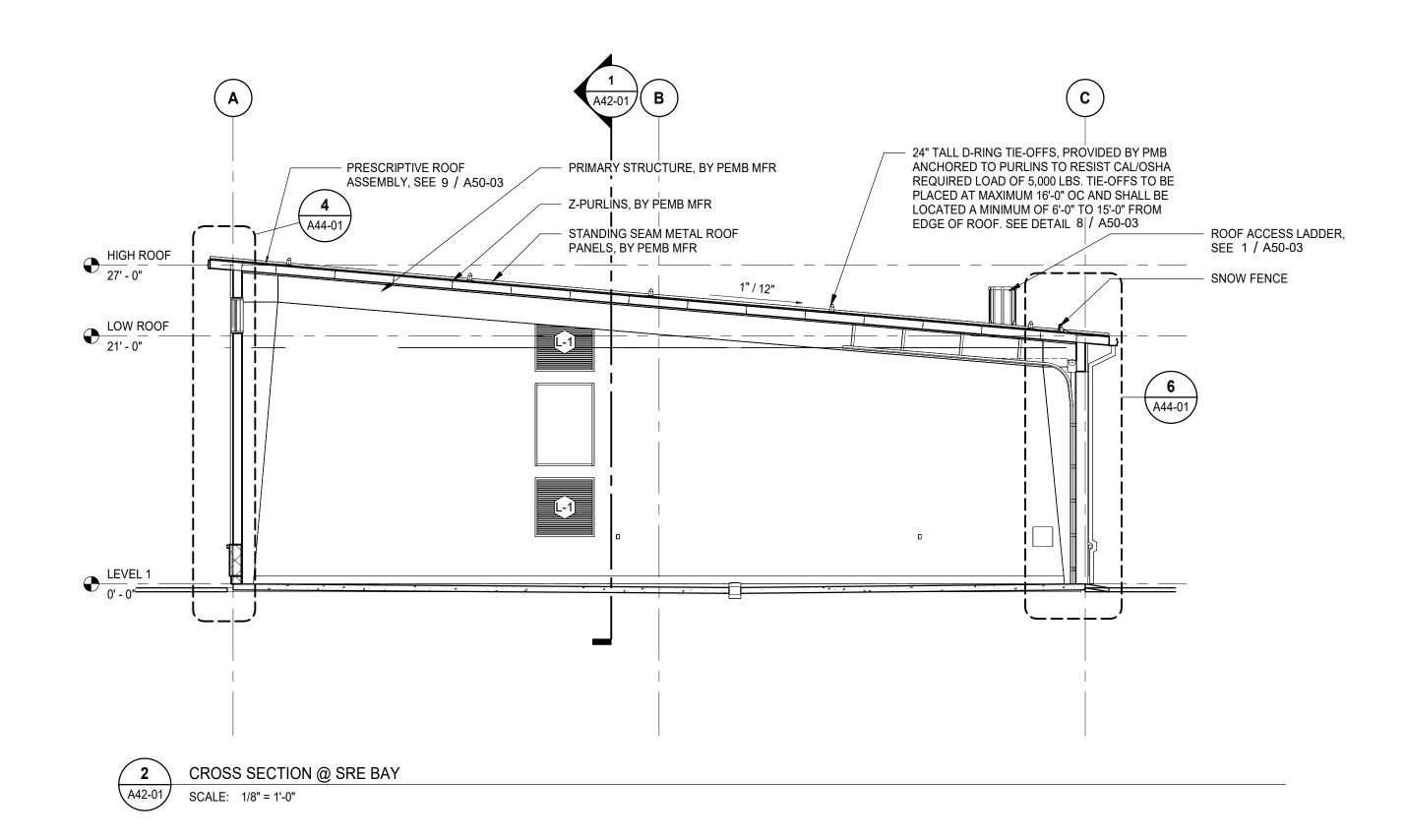
MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE

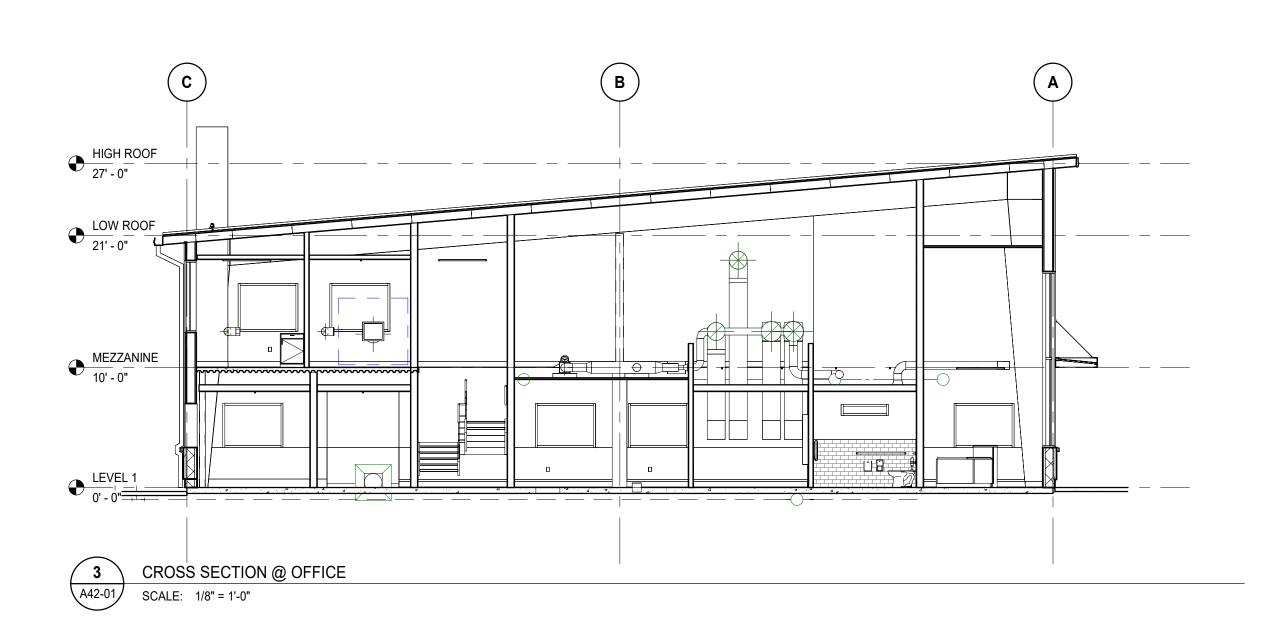
MAMMOTH, CALIFORNIA
Drawing Title
OVERALL BUILDING **ELEVATIONS**

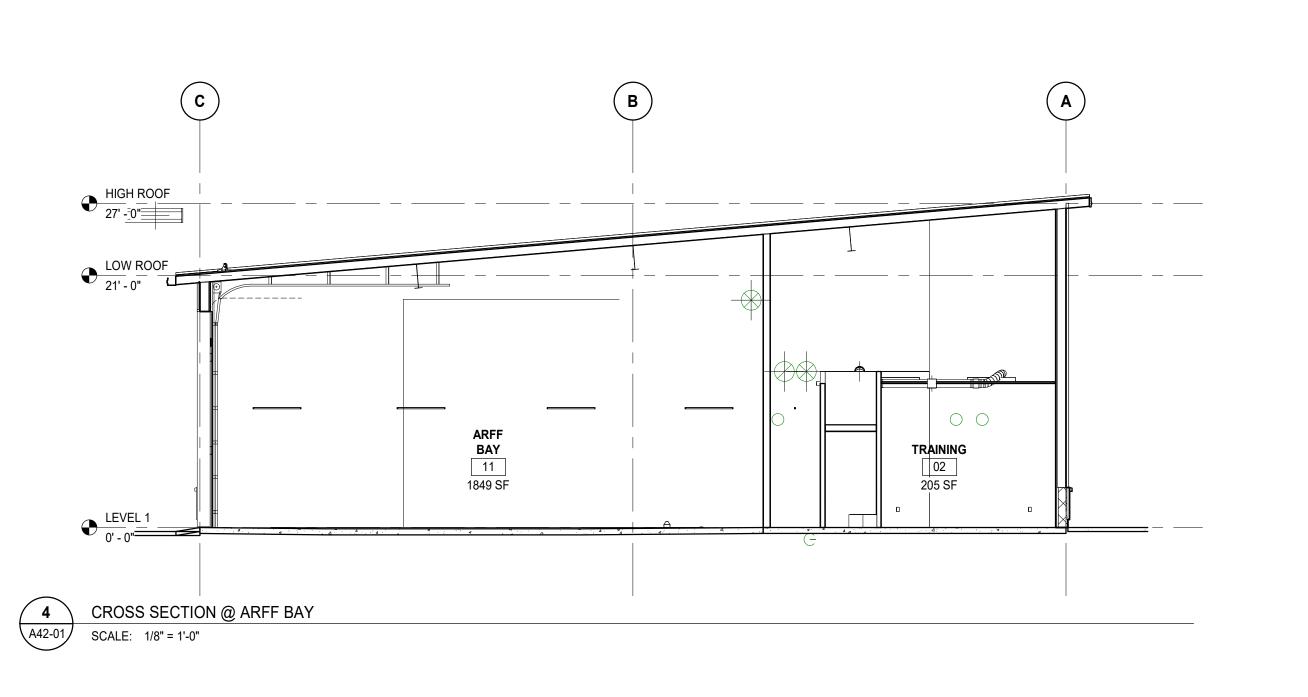
1/8" = 1'-0"

IN2024-0022

A41-01







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Project Component

DATE

ISSUED FOR

Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Drawn JON PRICE Project Manager Project Leader MIKE NOVAK

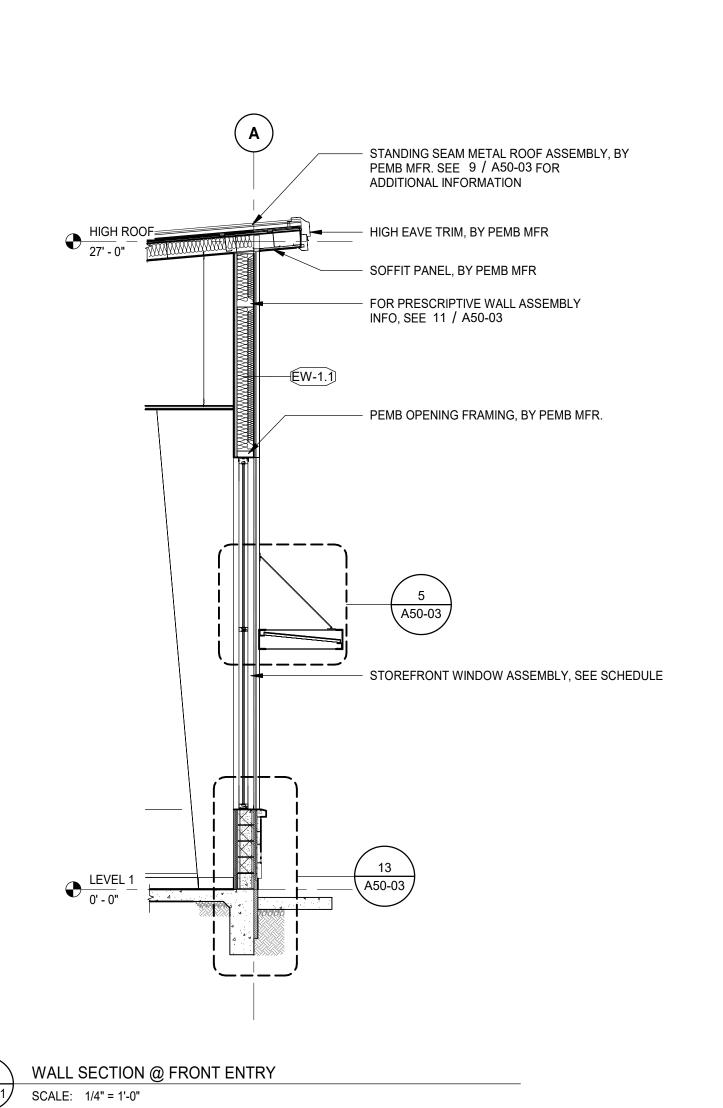
MAMMOTH YOSEMITE **AIRPORT**

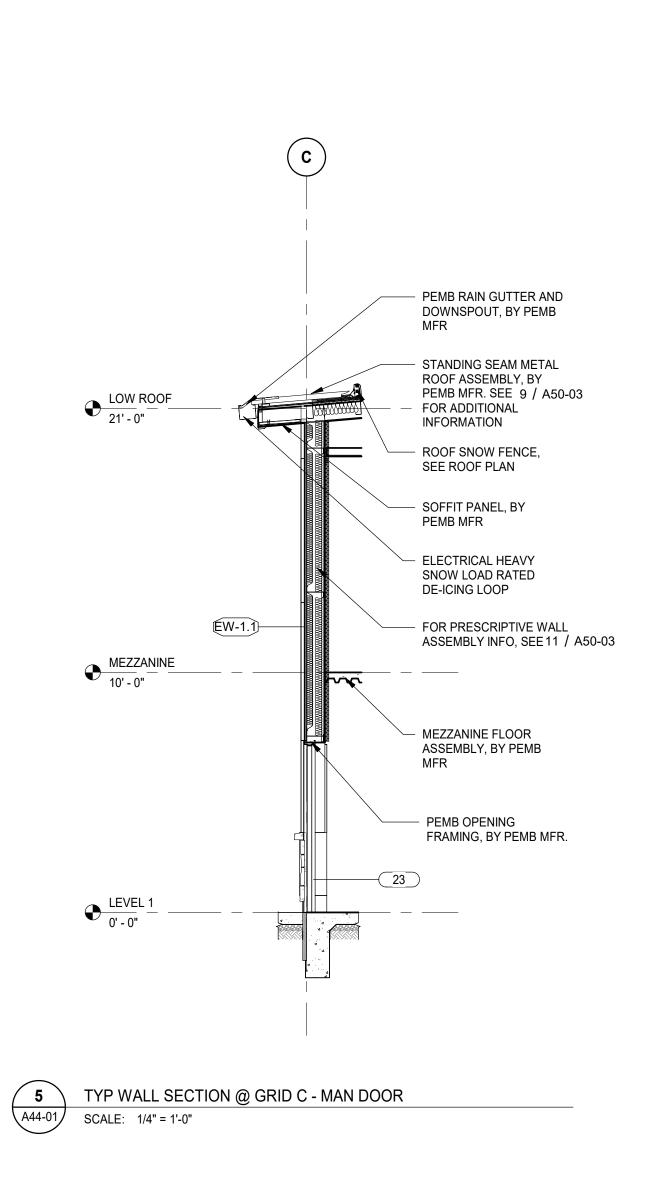
MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE**

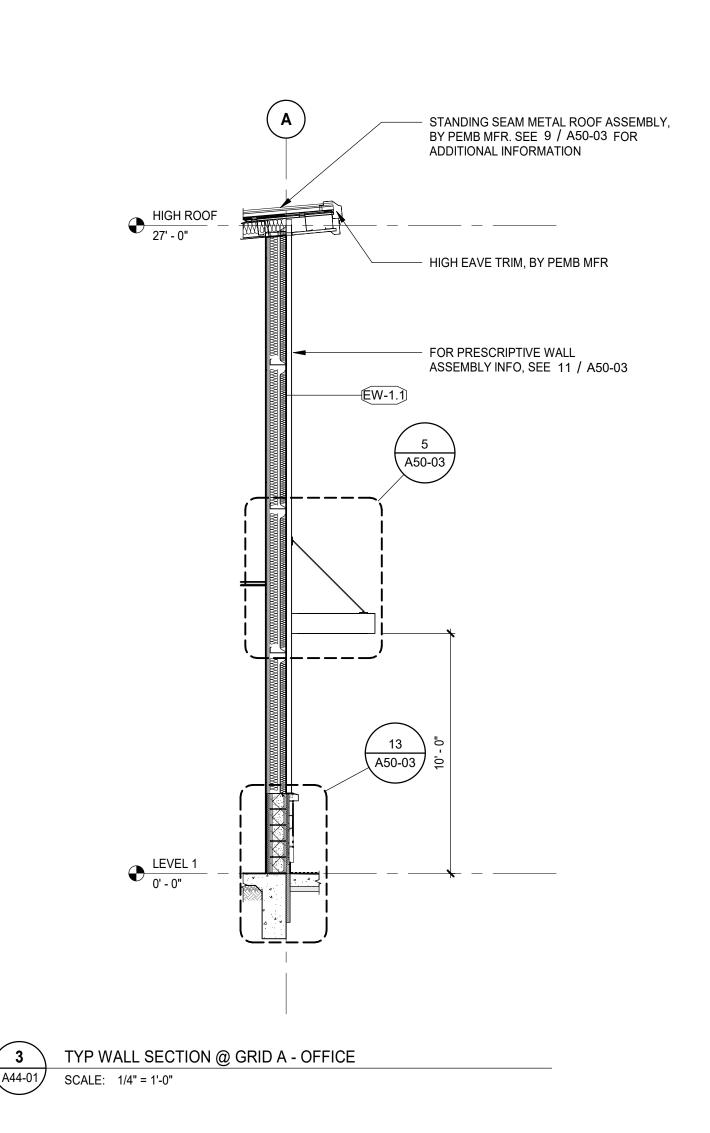
MAMMOTH, CALIFORNIA
Drawing Title
OVERALL BUILDING **SECTIONS**

1/8" = 1'-0" IN2024-0022

A42-01







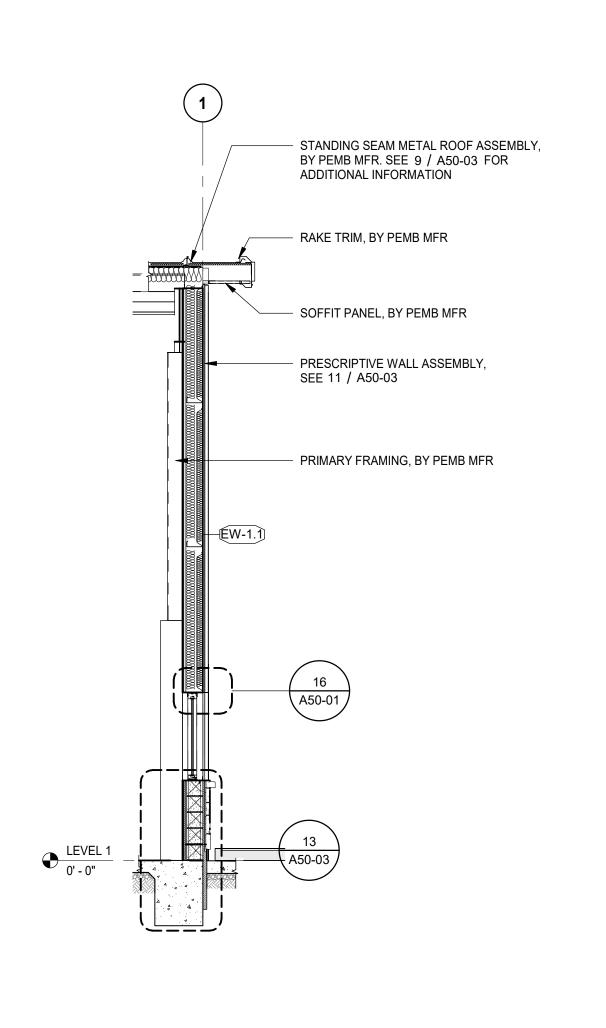
SOFFIT PANEL, BY PEMB MFR

FOR PRESCRIPTIVE

WALL ASSEMBLY INFO, SEE 9 / A50-03

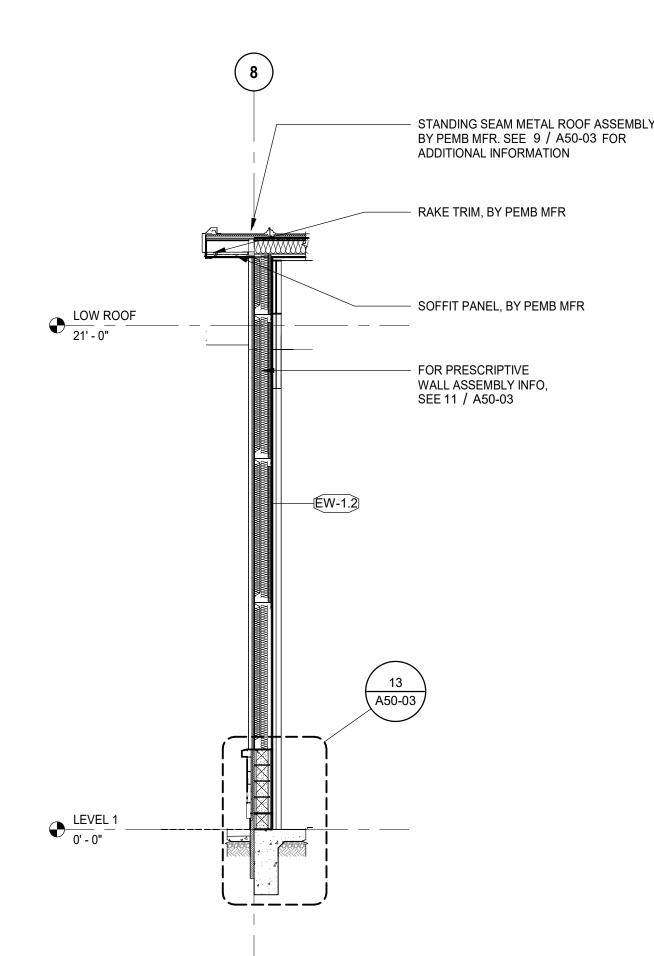
— STONE VENEER/
8" FILLED CMU BLOCK/
2" RIGID INSULATION BD./
5/8" PLYWOOD SHEATHING

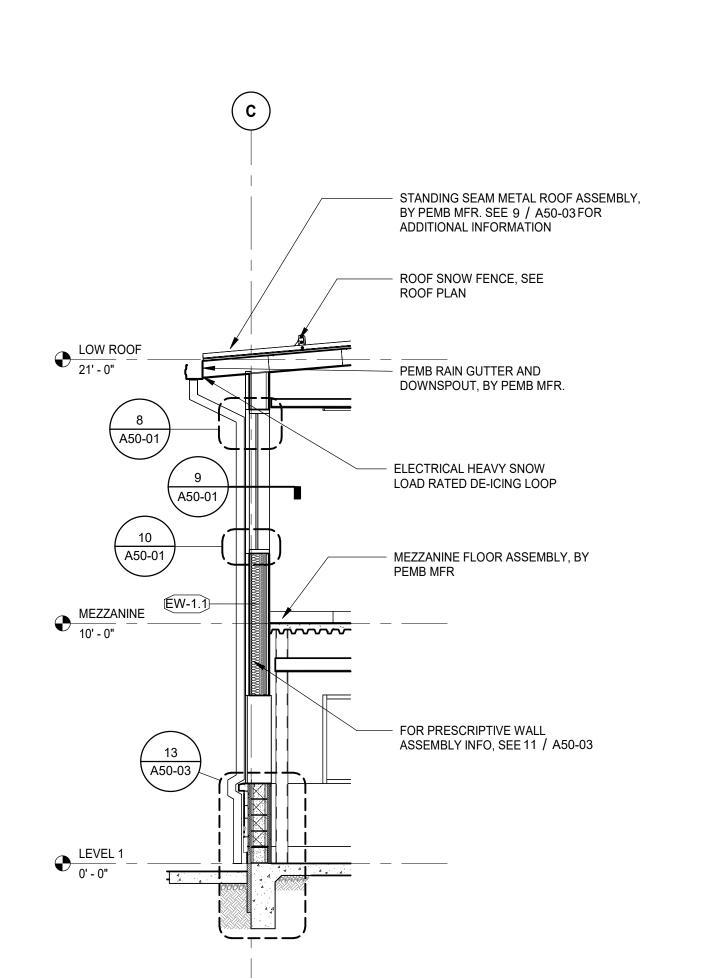
FINISH FLOOR, SEE
 STRUCTURAL DRAWINGS



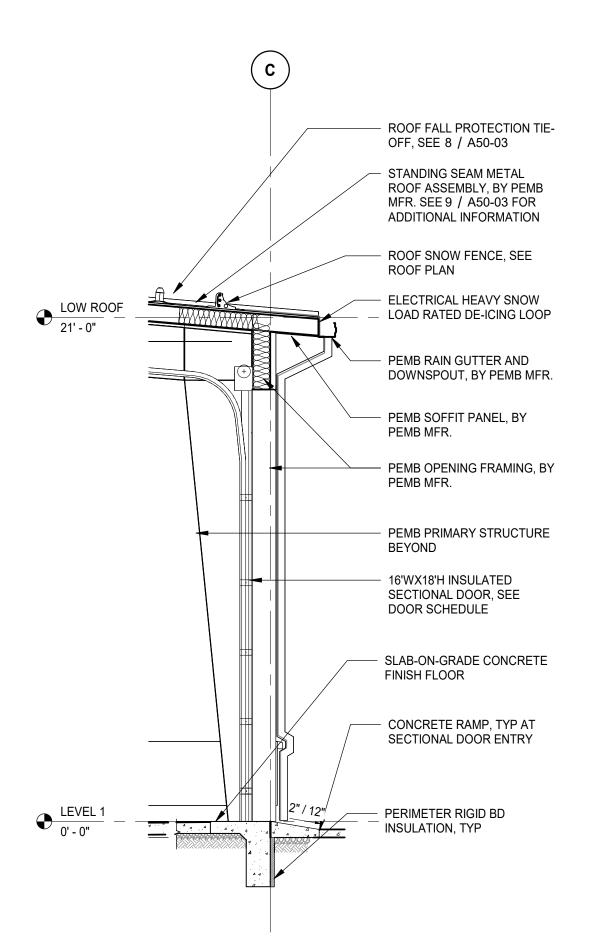
TYP WALL SECTION @ GRID 1 - OFFICE



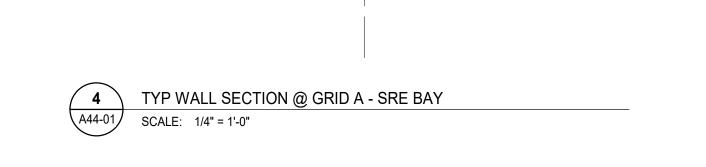




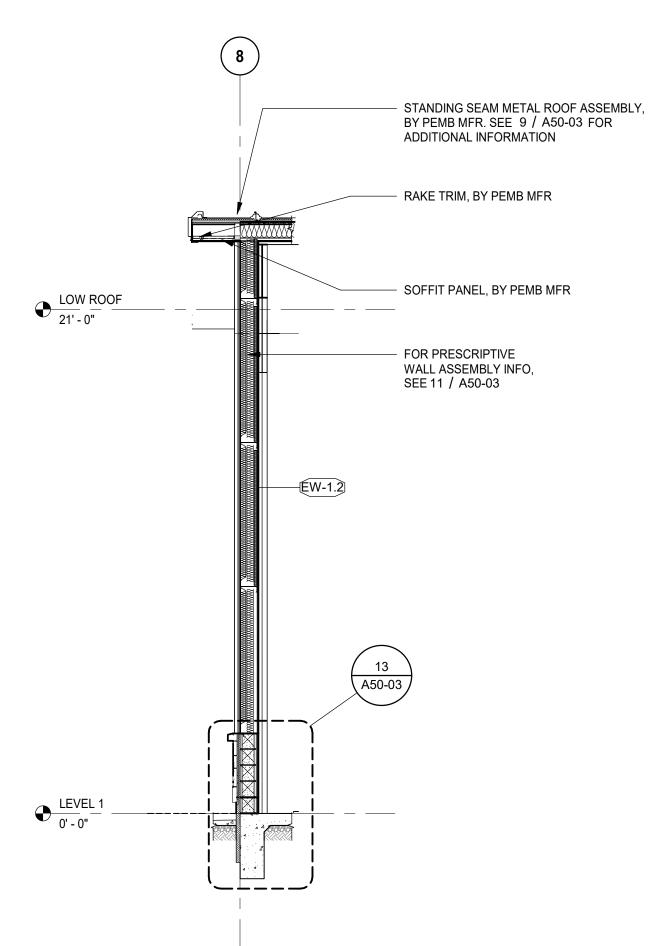




6 TYP WALL SECTION @ GRID C - SECTIONAL DOOR A44-01 SCALE: 1/4" = 1'-0"



EW-1.2



TYP WALL SECTION @ GRID 8 - SRE BAY

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

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DATE

ISSUED FOR

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Project Component

Brandley Engineering

Vivil: Kimley-Horn

Architecture: NORR

Structural: Bevic Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR Fire Sprinkler: Sacramento Engineering Consultants

NORR

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Project Manager Checked Project Leader

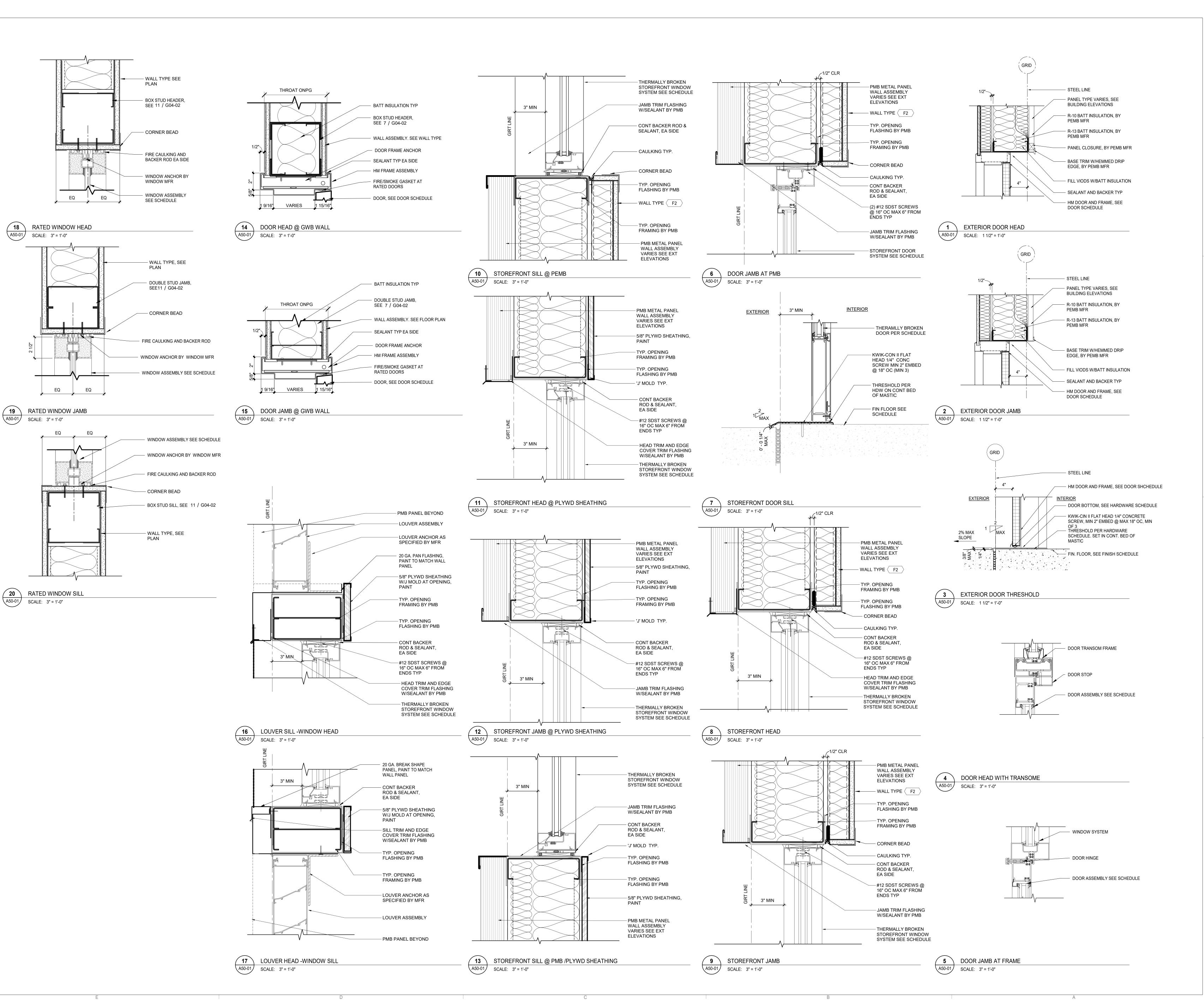
MAMMOTH YOSEMITE **AIRPORT**

MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE**

MAMMOTH, CALIFORNIA WALL SECTIONS

1/4" = 1'-0"

IN2024-0022



DATE **ISSUED FOR**

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Project Component

Key Plan

Seal(s)

Consultants Brandley Engineering Kimley-Horn

Architecture: NORR Structural: Bevier Structural Eng Mechanical: NORR Electrical: NORR Interiors: NORR Fire Sprinkler: Sacramento Engineering Consultants

NORR

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Project Manager JON PRICE Project Leader MIKE NOVAK

MAMMOTH YOSEMITE

AIRPORT

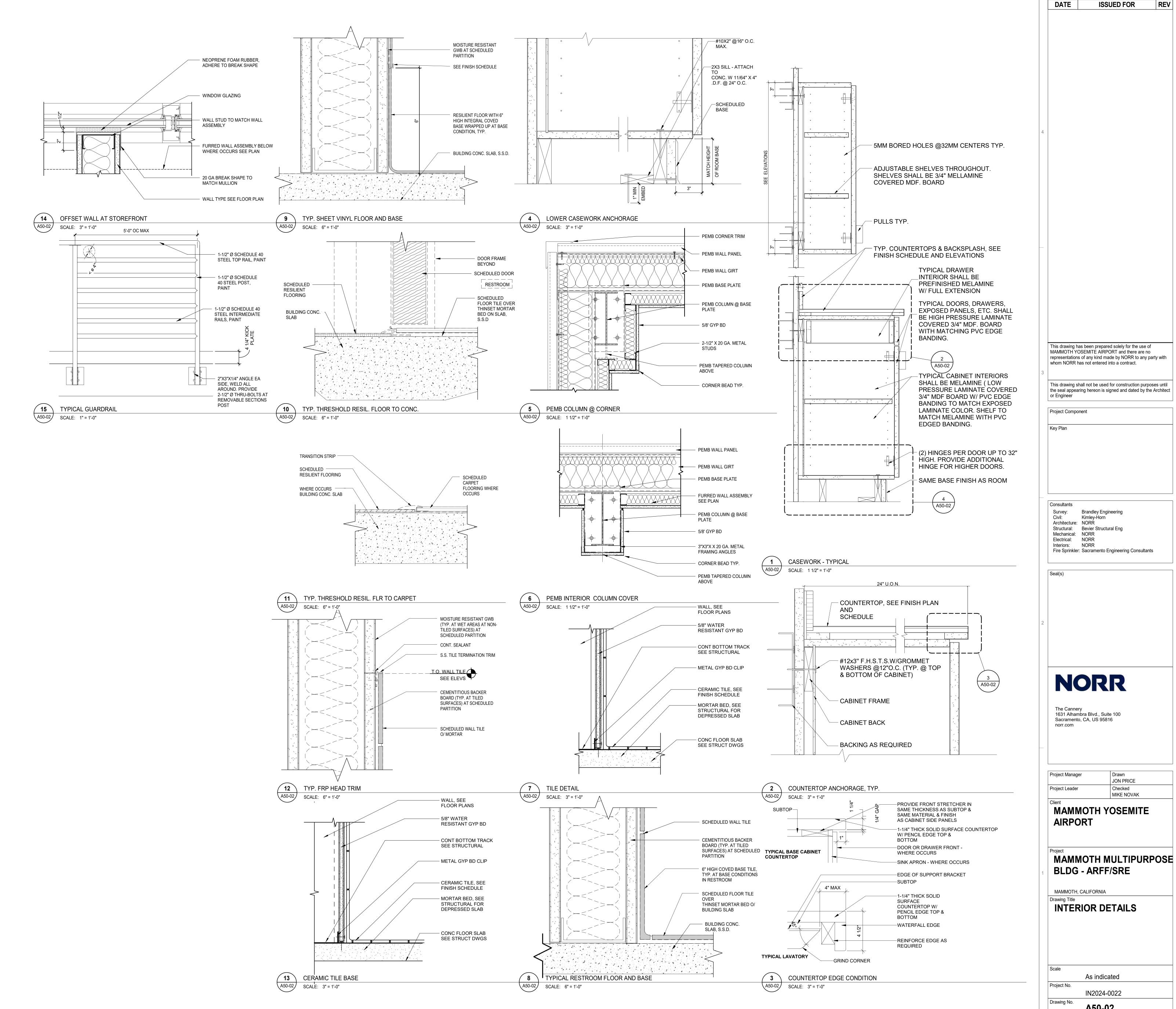
MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE**

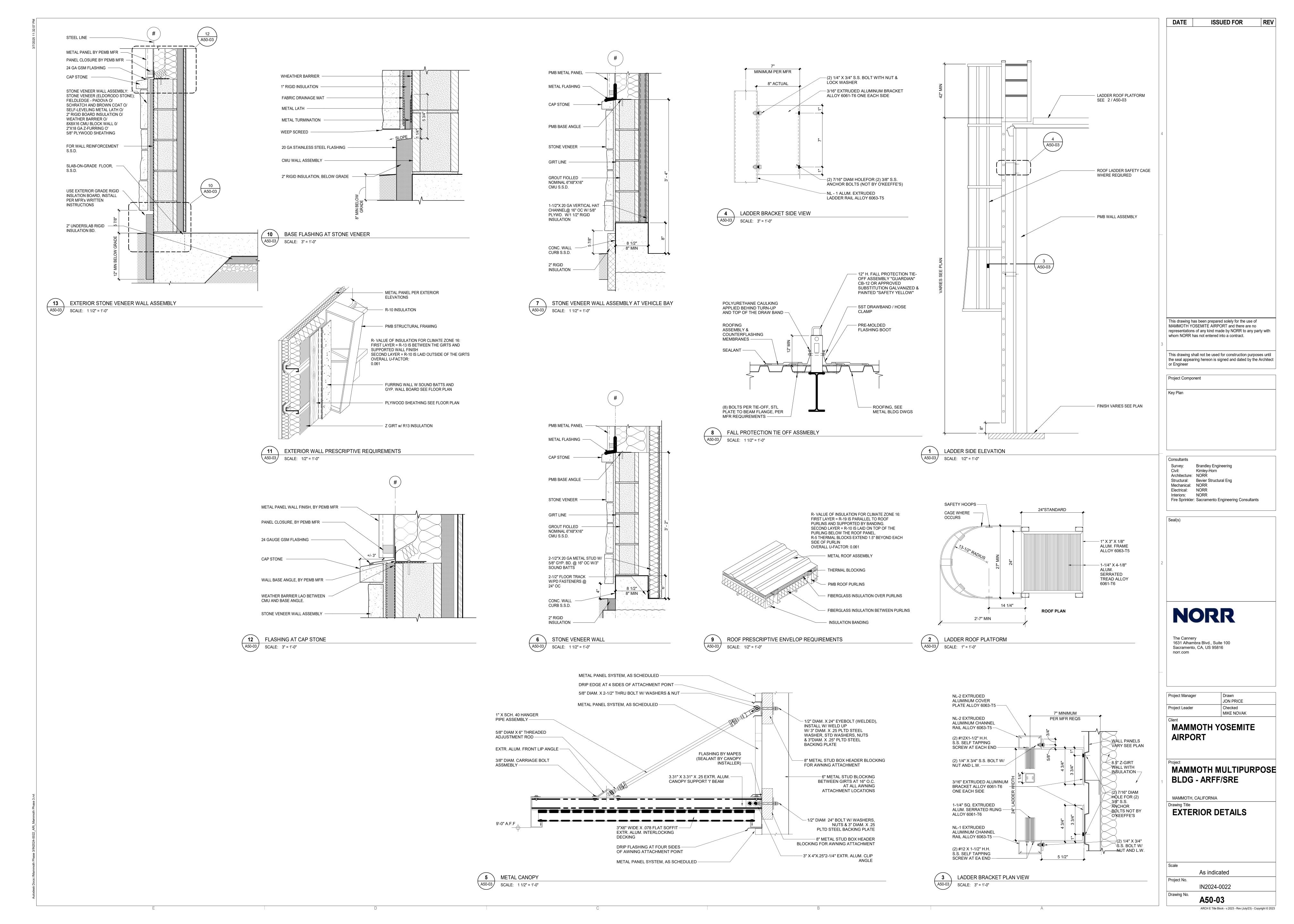
MAMMOTH, CALIFORNIA Drawing Title

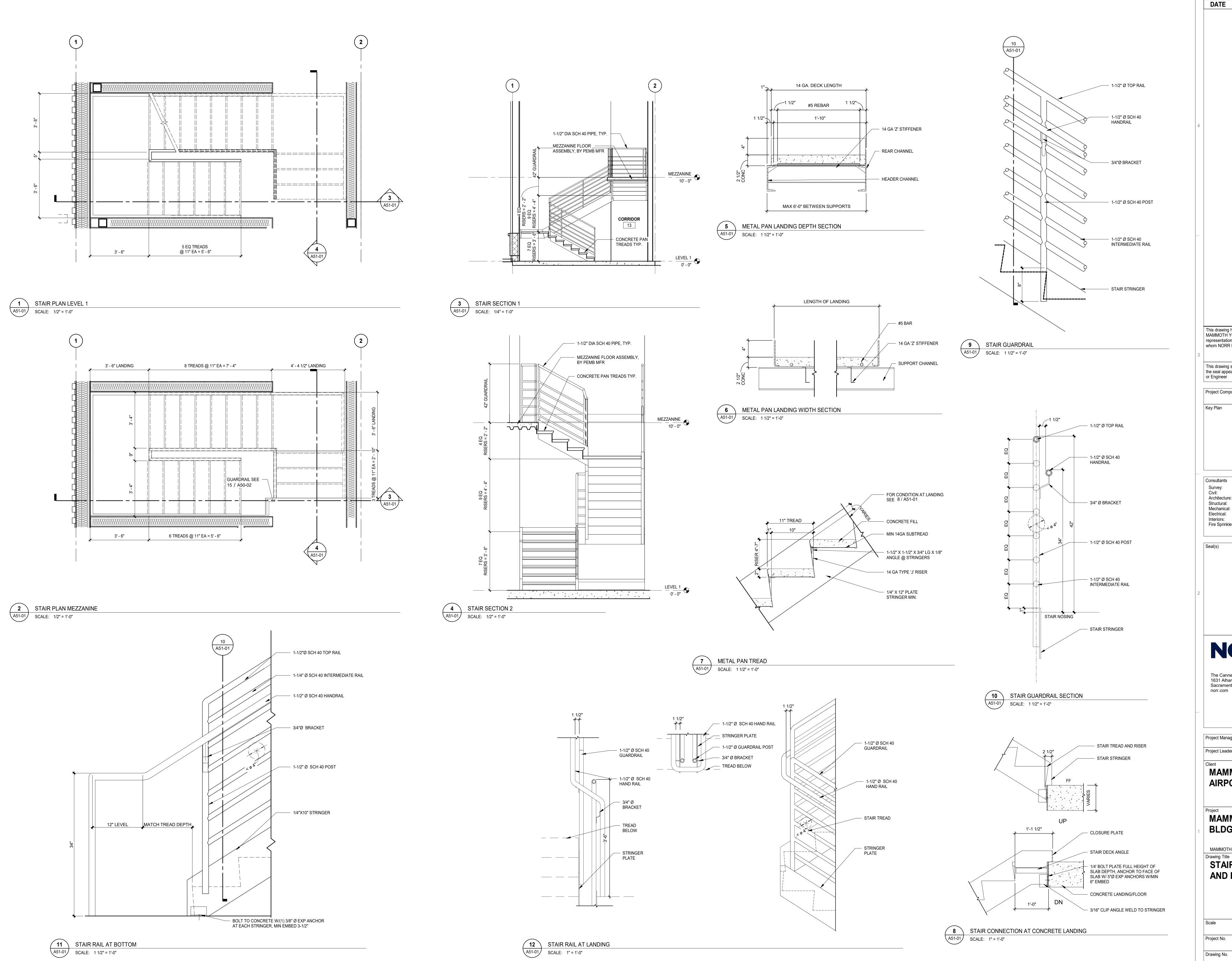
Drawing No.

DOOR AND WINDOW **DETAILS**

> As indicated IN2024-0022







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Sivil: Kimley-Horn

Architecture: NORR

Structural: Bevice Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants NORR The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com Project Manager Checked Project Leader MAMMOTH YOSEMITE **AIRPORT** MAMMOTH MULTIPURPOSE **BLDG - ARFF/SRE** MAMMOTH, CALIFORNIA

Drawing Title

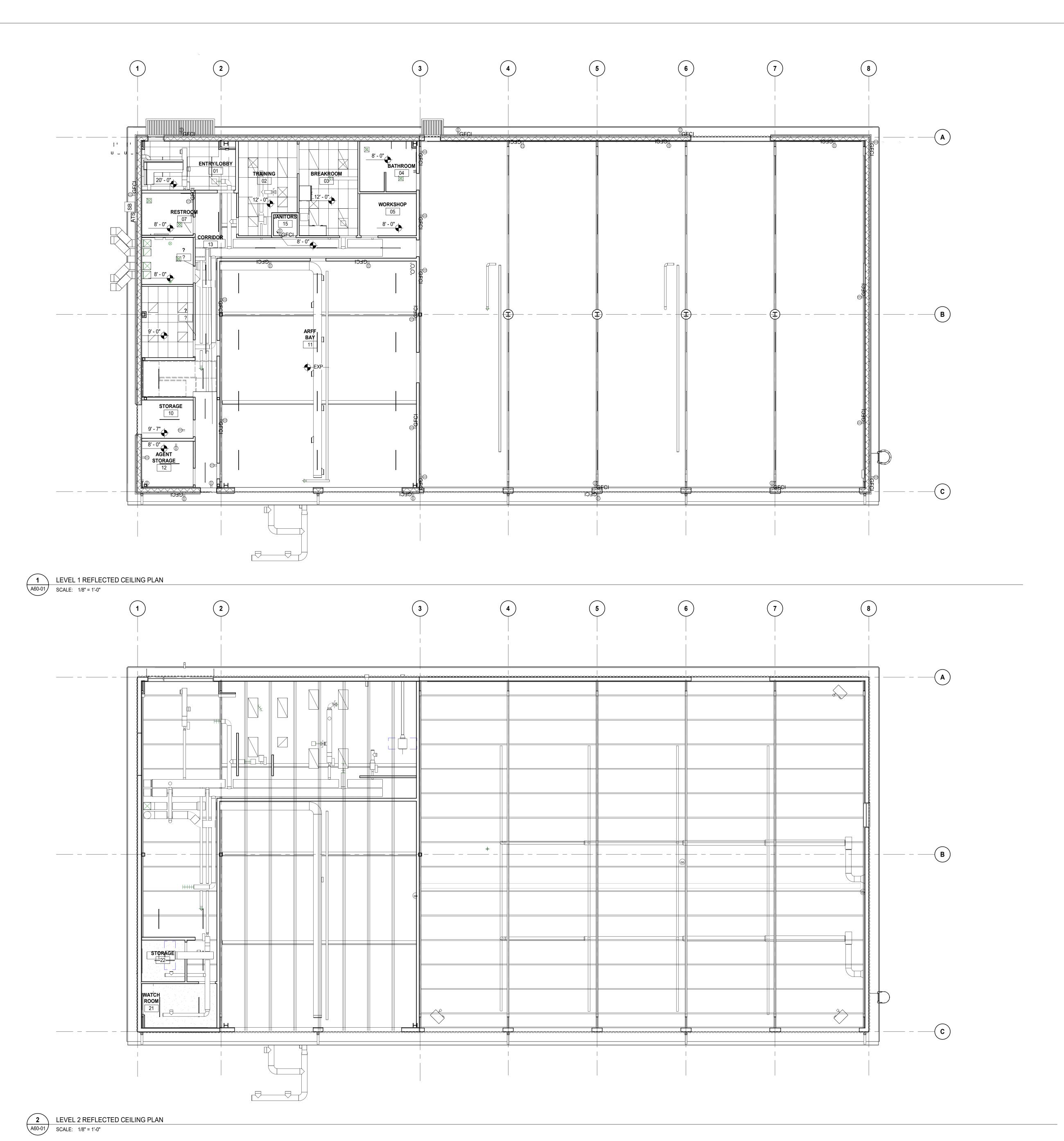
STAIR PLANS, SECTIONS **AND DETAILS** As indicated

IN2024-0022

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A51-01

ISSUED FOR



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whom NORR has not entered into a contract.

Project Component

DATE

ISSUED FOR

Key Plan

Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire Sprinkler: Sacramento Engineering Consultants

NORR

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Project Manager Checked Project Leader

Client MAMMOTH YOSEMITE AIRPORT

MAMMOTH MULTIPURPOSE BLDG - ARFF/SRE

MAMMOTH, CALIFORNIA

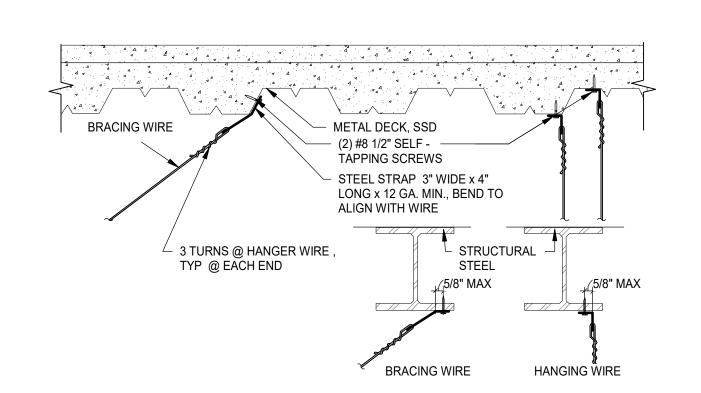
Drawing Title

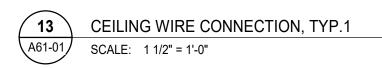
REFLECTED CEILING PLAN - LEVEL 1

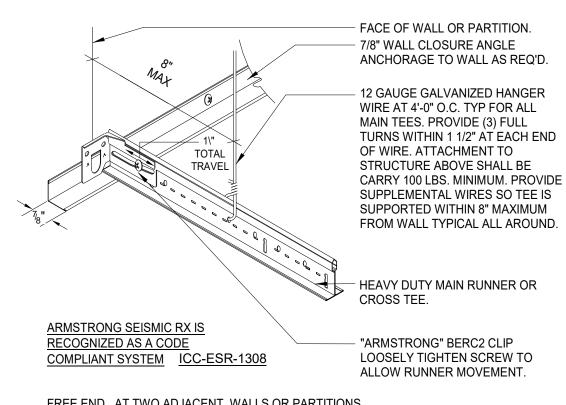
1/8" = 1'-0"

IN2024-0022

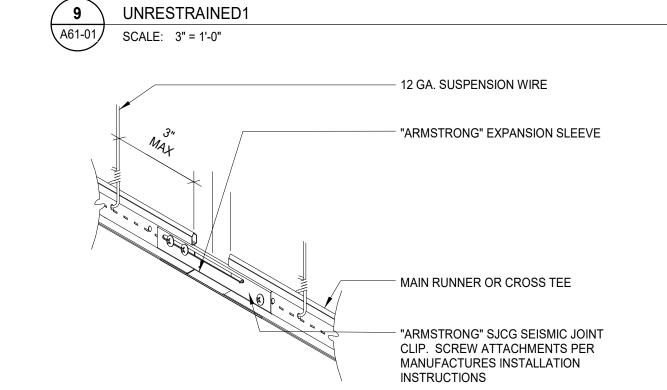
A60-01







FREE END AT TWO ADJACENT WALLS OR PARTITIONS NOTE: CEILING DETAIL BASED ON IBC CATEGORY D, E AND F APPROVED SEISMIC INSTALLATION USING THE "ARMSTRONG" SEISMIC RX SYSTEM. CONTRACTOR TO VERIFY INSTALLATION DETAILS WITH CEILING SYSTEM VENDOR.

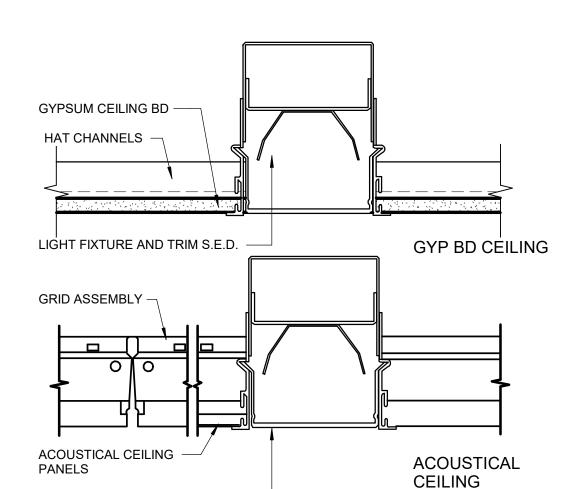


NOTE: CEILING DETAIL BASED ON IBC CATEGORY D, E AND F APPROVED SEISMIC INSTALLATION USING THE "ARMSTRONG" SEISMIC RX SYSTEM. CONTRACTOR TO VERIFY INSTALLATION

SEISMIC JOINT1

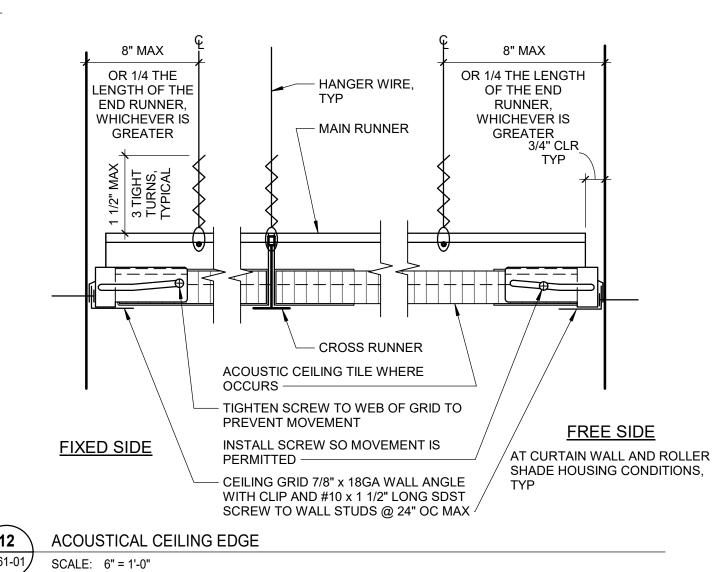
SCALE: 3" = 1'-0"

RECOGNIZED AS A CODE COMPLIANT SYSTEM ICC-ESR-1308 DETAILS W/ CEILING SYSTEM VENDOR

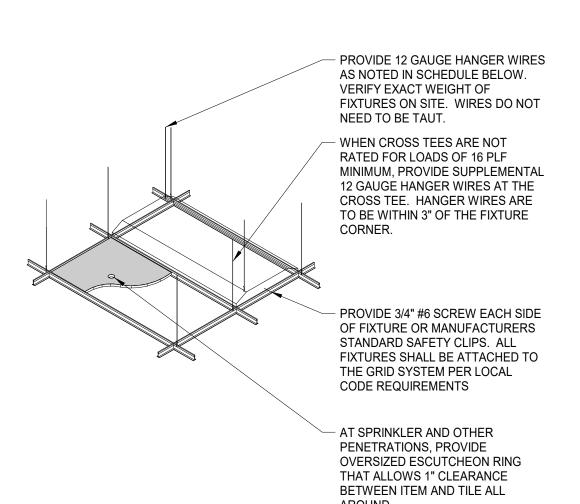


SECTION THROUGH LIGHTING FIXTURE1 SCALE: 3" = 1'-0"

LIGHT FIXTURE AND TRIM S.E.D.







LIGHT FIXTURE WEIGHT	# OF WIRES
LESS THAN 10 LBS.	(1) 12 GAUGE WIRE
GREATER THAN 10 LBS. - LESS THAN 56 LBS.	(2) 12 GAUGE WIRE
GREATER THAN 56 LBS.	DIRECT SUPPORT FROM STRUCTURE ABOVE
PENDANT HUNG FIXTURES THAT PENETRATE LAY-IN CEILINGS.	(1) 9 GAUGE WIRE + LATERAL BRACING

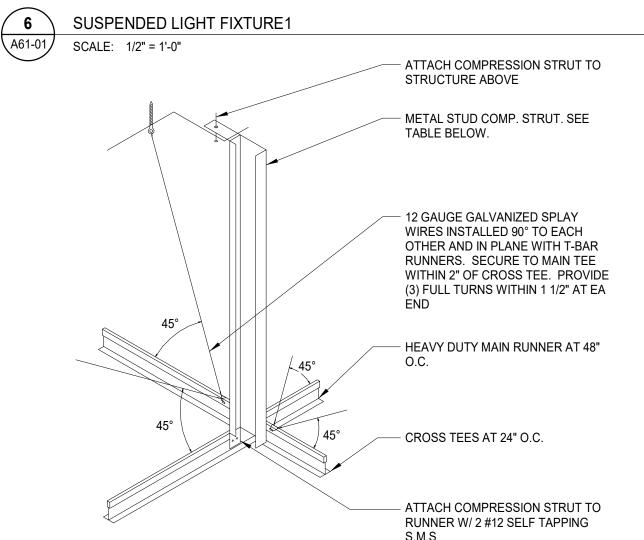
F.P. & HVAC WEIGHT	# OF WIRES			
LESS THAN 20 LBS.	NONE			
GREATER THAN 20 LBS. - LESS THAN 56 LBS.	(2) 12 GAUGE WIRE			
GREATER THAN 56 LBS.	DIRECT SUPPORT FROM STRUCTURE ABOVE			
NOTE: THE ARMSTRONG CEILING GRID SYSTEM IS RATED FOR 16 PLF. IN				

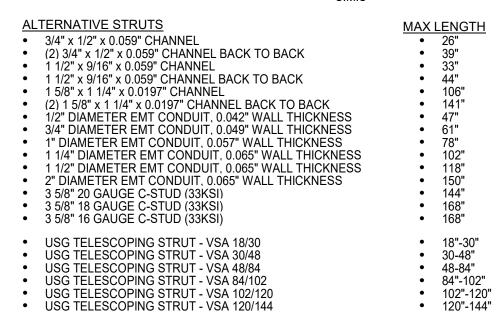
LIGHT AND MECHANICAL FIXTURE. NOTE: . LIGHT FIXTURES TO COMPLY W/ ALL CODES. FIXTURES SHALL BE

EXISTING CONDITIONS WHERE THE GRID LOAD RATING CANNOT BE VERIFIED,

PROVIDE THE SUPPLEMENTAL HANGER WIRES ON THE CROSS TEES AT EACH

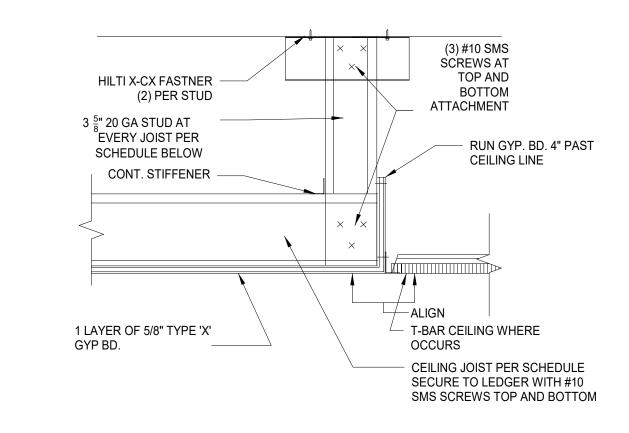
MOUNTED IN CONFORMANCE TO ASCE 7-10 SECTION 13-5-6 AND AS MODIFIED

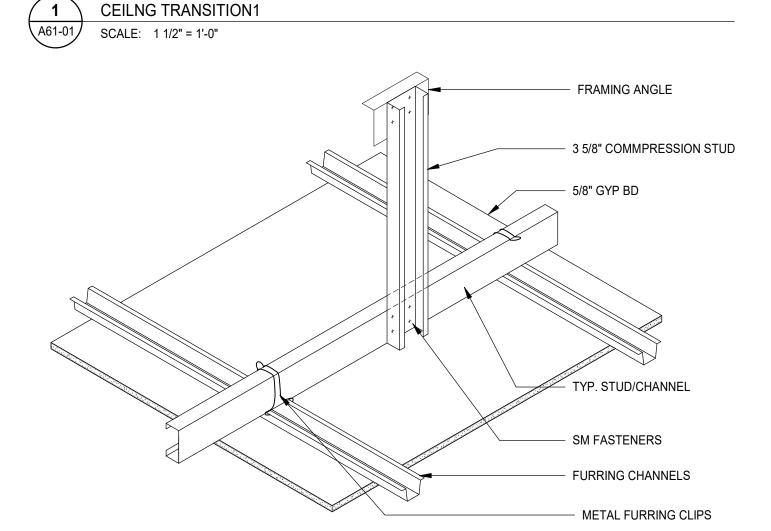


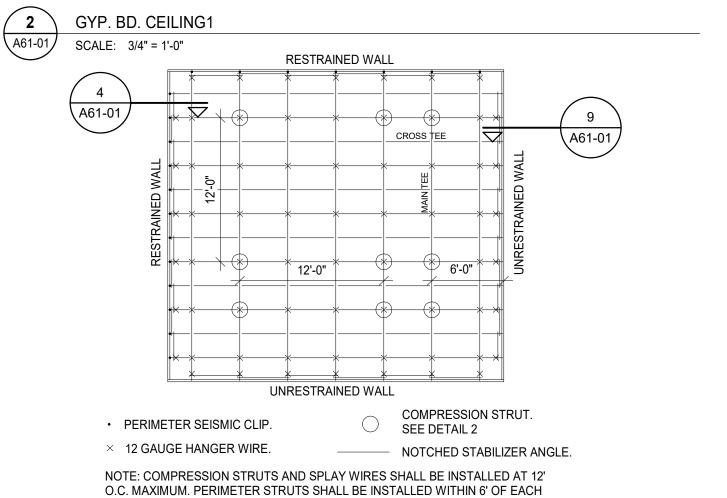


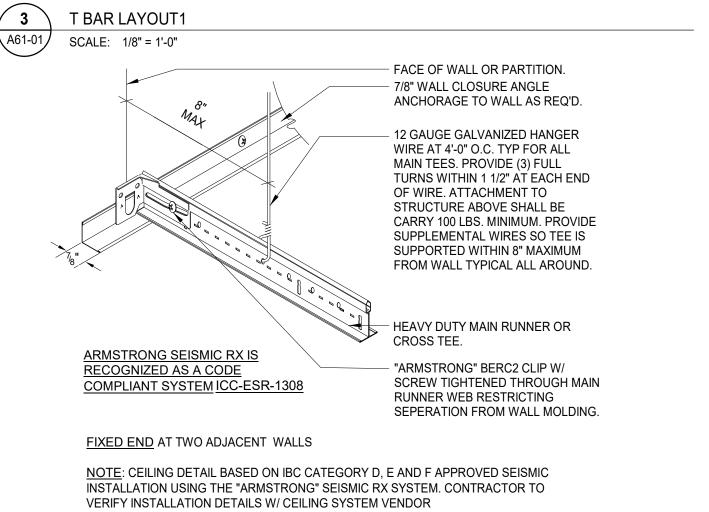
NOTE: CEILING (RESTRAINED) SEISMIC DETAIL BASED ON IBC CATEGORY D, E AND F APPROVED SEISMIC INSTALLATION USING THE "ARMSTRONG" SEISMIC RX SYSTEM. SDC-D, ASTM C635, C636, AND E580. CONTRACTOR TO VERIFY INSTALLATION DETAILS WITH CEILING SYSTEM VENDOR. CEILING TO COMPLY WITH ASCE 7-10 13-5-6 AND AS MODIFIED BY CBC 1616A.1.20

NOTE: COMPRESSION STRUTS AND SPLAY WIRES SHALL BE INSTALLED AT 12' O.C. MAXIMUM. PERIMETER STRUTS SHALL BE INSTALLED WITHIN 6' OF EACH WALL. ARMSTRONG SEISMIC RX IS RECOGNIZED AS A CODE COMPLIANT SYSTEM ICC-ESR-1308











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Project Component Key Plan

DATE

ISSUED FOR

Consultants Brandley Engineering Kimley-Horn Architecture: NORŔ Structural: Bevier Structural Eng Mechanical: NORR Electrical: NORR

Fire Sprinkler: Sacramento Engineering Consultants

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager JON PRICE Project Leader MIKE NOVAK

MAMMOTH YOSEMITE AIRPORT

MAMMOTH MULTIPURPOSE

MAMMOTH, CALIFORNIA

CEILING DETAILS

BLDG - ARFF/SRE

As indicated IN2024-0022

subcontractors. B) In general, the working details will indicate dimensions, positions and kind of construction, and the specifications will indicate qualities and methods. Any work indicated on the working details mentioned but not in the specifications, or vice versa, shall be furnished as though fully set forth in both. Work not particularly detailed, marked, or specified, shall be the same as similar parts that are detailed, marked, or specified. If conflicts occur between drawings and specifications, the most expensive materials or methods will prevail. C) Should an error appear in the working details or specifications or in work done by others affecting this work, the contractor shall notify the architect at once and in writing. If the Contractor proceeds with the work so affected without having given such written notice and without receiving the necessary approval, decision or instruction in writing from the owner, then he shall have no valid claim against the owner, for the cost of so proceeding and shall make good any resulting damage or defect. No verbal approval, decision, or instruction shall be valid or be the basis for any claim against the owner, its officers, employees or agents. The foregoing includes typical errors in the specifications or notational errors in the working details where the interpretation is doubtful or where the error is sufficiently apparent as to place a reasonably prudent contractor on notice that, should he elect to

proceed, he is doing so at his own risk. Construction shall conform to all applicable codes and regulations. 3. Shop Drawing Note:

A) Shop drawings shall be submitted in the form of one reproducible and two

copies of each sheet. B) The purpose of shop drawing submittals by the Contractor is to demonstrate to the Structural Engineer that he understands the design concept by indicating which materials he intends to furnish and install, and by detailing the fabrication and installation methods he intends to use.

C) Prior to fabrication, shop drawings shall be submitted for review to the Structural Engineer. Shop drawing submittals shall include, but are not necessarily limited to structural steel, reinforcing steel, glued laminated beams, and pre-fabricated wood roof framing items such as I-joists and trusses. D) Prior to submission the Contractor shall review all submittals for conformance with the contract documents and shall stamp submittals as being "Reviewed for

Conformance". E) Shop drawing submittals processed by the Structural Engineer are not change

F) Any detail on the shop drawing that deviates from the contract documents shall clearly be marked with the note "This is a Change". 6) Shop drawings or calculations submitted for review that require a third

resubmittal for re-review shall be billed hourly for such time to the General <u>Contractor.</u> Re-review will not proceed without written approval from the General Contractor for additional engineering review services. A) It is the Contractors responsibility to comply with the pertinent sections, as

they apply to this project, of the "Construction Safety Orders" issued by the State of California latest edition, and all OSHA requirements. B) The owner and the Structural Engineer do not accept any responsibility for the Contractor's failure to comply with these requirements.

C) The Contractor shall be responsible for adequate design and construction of <u>all forms and shoring required.</u> 5. The Contractor shall notify the Architect and Structural Engineer where a conflict <u>or a discrepancy occurs between the structural drawings and any other portion of</u> the contract documents or existing field conditions. Such notification shall be given in due time so as not to affect the construction schedule. In case of a conflict

between structural drawings and specifications, the more restrictive condition shall take precedence unless written approval has been given for the least restrictive. Contractor shall verify all dimensions with architectural and structural drawings prior to commencing any work. 6. Where no specific detail is shown, the construction shall be identical or similar to

that indicated for like cases of construction on this project. Should there be any question, contact the Architect and Structural Engineer prior to proceeding. 7. When construction attaches to an existing building, a complete set of drawings of the existing building shall be kept on the job site. Contractor to obtain these drawings from the owner.

8. Any substitutions for structural members, hardware, or details shall be reviewed by the Architect and Structural Engineer. Such review will be billed on a time and materials basis to the General Contractor with no quarantee that the substitution will be allowed.

9. Do not scale drawings. Contact the Architect or Structural Engineer for any dimensions not shown. IO. These drawings are not complete until reviewed and accepted by the local building

official and signed by the owner and the Structural Engineer II. All drawings and written material appearing herein constitutes the original and unpublished work of the Structural Engineer and the same may not be duplicated,

used or disclosed without written consent of the Structural Engineer. 12. The structure shown on these drawings is structurally sound only in its completed form. The stability of this structure depends on the diaphragms and the bracing members shown. The Contractor is to provide for the design and construction of shoring for all earth, forms, concrete, steel, wood, and masonry to resist gravity, earth, wind, seismic, and construction loads. Shoring shall remain in place until all diaphragms and lateral resisting elements are in place in their entirety. Construction materials shall be spread out if placed on framed floors or roofs. Load shall not exceed the design live load per square foot.

<u>Design Criteria</u>

I. Code: 2022 California Building Code (CBC)

٠.	Code. 2022 Call of the Bollaing C	000 (000)	
2.	Design Live Loads:		
	<u>Area</u>	<u>Live Load</u>	<u>Remarks</u>
	Roof		
	A) Flat to < 4:12	Lr = 20 psf	Reducible per code
	B) 4:12 to ≤ 12:12	Lr = 12-20 psf	Reducible per code
3.	Snow Design Parameters:	,	,
	Ground Snow Load		Pg = 100 psf
	Flat-Roof Snow Load		Pf = 76 psf
	Snow Exposure Factor		Ce = 0.90
	Snow Load Importance Fac	tor	Is = 1.20
	Thermal Factor		Ct = 1.0
4.	Wind Design Parameters:		
	Basic Design Wind Speed (3-sec qust)	V = 110 mph
	Nominal Design Wind speed		Vasa = 86 mph
	Risk Category	. ,	IV
	Exposure Category		C
	Internal Pressure Coefficie	nt	±0.18
	Analysis Method		Directional Procedure
5.	Earthquaké Design Parameters:		
	5.1. Seismic Importance Facto	or	IE = 1.5
	Risk Category		IV
	5.2. Soil Šite Classification		<i>'</i> D'
	5.3. Seismic Design Category	,	<i>'</i> D'
	5.4. Mapped Spectral Respo	nse Accel	
	A) Short period		Ss = 1.798q
	B) I-sec period		Sı = 0.610g
	5.6 Design Spectral Respons	se Accel	2
	A) Short Period		Sps = 1.439q
	B) I-sec period		SDI = 0.691g
	5.7 Seismic Force Resisting	Sustem	By Others
	5.8 Seismic Base Shear	٧	By Others
	5.9 Seismic Response Coeffi	cient	By Others
	5.10 Component Response Mo		By Others
	5.11 Analysis Procedure		Equivalent Lateral Force
	,		r

Foundations

I. Foundation design is based on the geotechnical report by Brandley Engineering, dated October 27th, 2022.

2. All building pad preparation and foundation work shall be done in accordance with the requirements of the geotechnical report. Copies of the report may be obtained from the engineer upon request

3. The Geotechnical Engineer shall observe all footing excavations prior to

placement of reinforcing steel and concrete. 4. Foundation depths indicated on plans are for estimating purposes only. Actual depths are to be determined by the Geotechnical Engineer on the jobsite as

5. When structural observation is required, structural engineer shall observe footing reinforcing steel prior to concrete placement. Provide 48 hours notice to structural engineer prior to concrete placement.

6. The contractor shall be solely responsible for all excavation procedures including, but not limited to, lagging, shoring and protection of adjacent property, structures,

streets, and utilities in accordance with the local building department. 7. Foundation type: conventional spread footings Spread footing design values:

Allowable Bearing Pressures DL + LL DL + LL + wind or seismic 2,666 psf <u>Lateral Resistance</u> Passive Pressure Coefficient of friction Minimum footing dimensions

width = 36" (spread footings)

Prefabricated Metal Building

I. Design and fabrication shall conform to the 2022 California Building Code (CBC), and the latest editions of AISC "Specifications for the Design, Fabrication, and Erection of Structural Steel Buildings", and AISC "Specifications for the Design of Cold-Formed Steel Structural Members".

3. Drawings, calculations and engineering data on structural sections for all components shall be submitted to the Owner for review prior to fabrication. See Design Criteria Notes for loading information.

2. Metal Building Manufacturer (MBM) shall be AISC category 'MB' certified.

4. Calculations and drawings shall be signed by a Civil or Structural Engineer registered in the state in which the project is located. 5. Building manufacturer shall provide plan drawing showing column locations and anchor bolt locations prior to fabrication. Anchor bolt sizes, numbers, and locations

are to be designed and detailed by MBM. MBM shall furnish required anchor bolts

6. Contractor shall verify all dimensions with Architectural drawings and MBM column layout prior to foundation construction. 7. All hardware required for connecting building components shall be designed,

detailed and provided by building manufacturer. 8. Contractor shall provide temporary erection bracing as required. 9. Building designer shall account for the weight of all mechanical equipment in the

design of all building components which support such units. IO. Foundation design is based on preliminary evaluation of metal building reactions. Final building reactions are to be submitted to the Owner for validation of foundations prior to construction. The foundation design may need to be revised to meet the final building reactions.

Structural Deferred Submittals

Deferred submittals shall conform to the 2022 CBC. 2. The following are structural deferred submittal items:

A. Prefábricated Metal Building Stairs

Sprinklers Canopies

Foundation Design (Foundation Plan shown for bidding purposes only)

Generator Pad 3. The submittal shall include but shall not be limited to layout drawing, any necessary sections and/or details, and design calculations stamped and signed by a

Professional Engineer licensed in the State of California. 4. Submittal documents for deferred submittal items shall be submitted to the Architect or Engineer of Record for review prior to submission to the Building

5. Ten working days shall be allowed for the Architect or the Engineer to review each deferred submittal. 6. The deferred submittal items shall not be installed until their design and submittal documents have been approved by the Building Official.

7. Deferred submittals shall be made for enough in advance such that no delay in construction occurs.

Lightgauge Metal Framing

I. All metal framing shall be formed from corrosion resistant steel conforming to ASTM A653 or ASTM AIOII with minimum yield strength of 33 ksi for 18 ga and

lighter and 50 ksi for 16 ga and heavier. 2. Metal framing shown on the structural drawings shall have channel type sections

with stiffened flanges. 3. Metal tracks shall be the same gauge as framing which it supports, unless noted otherwise, with minimum flange width of 14".

4. Galvanized coating must meet the ASTM C955 specification. 5. Factory punch-outs to be located along the centerline of the webs of the members and have a minimum center-to-center spacing of 24". Punch-outs to have a maximum width=1½", and a maximum length=4". Lightgauge framing members shall be cut such that the minimum distance between the end of the member and the near edge of the web punch-out=10".

6. All header members shall be un-punched. 7. Design properties of metal framing studs, channels & tracks shall conform to (or exceed) the Steel Stud Manufacturer's Association (SSMA) Product Technical Information catalog & ICC Report # ESR-3064P.

Concrete Masonry

excess of 2500 psi.

1. 28-day compressive strength of concrete masonry (f'm) shall be f'm = 2000psi for all uses. Full masonry stresses are used in design.

2. Concrete block units shall conform to ASTM C-90. Units shall be lightweight with a maximum unit weight of 105 pcf.

3. Mortar shall be Type S. 4. Grout shall comply with ASTM C476. All cells to fully-grouted unless specified otherwise on plan

5. Compliance with the requirements for the specified compressive strength of masonry, f'm shall be in accordance with section SI.4B of the TMS402/602-16. For unit strength method see table below for required 28-day compressive strength of the concrete block units, grout, and mortar. required 28-day compressive strength

<u>mortar (psi)</u> 2000 min 2000 2250 min 1800 *3250* 2500 min 1800 *2500* Unit strength method shall not be used for specified compressive strengths in

6. Reinforcing steel shall conform to ASTM A615-grade 60 for #4 and larger, grade 40 for #3 and smaller.

7. All reinforcement shall be continuous. Stagger splices where possible. Lap bars 48 diameters minimum, unless noted otherwise 8. Vertical reinforcing shall be held in position at top and bottom and at intervals not to exceed 200 bar diameters.

9. Each vertical bar in walls shall lap 48 diameters with a dowel of the same size extending into the foundation. Carry each dowel to within 3" of the bottom of the foundation and terminate with 90° hook. Dowels shall be straight and plumb. IO. Place all horizontal bars in bond beam units. When 2 bars are used, stagger laps a

II. Provide 2-#5 bars (full height of wall at jamb and extending a minimum of 2'-6" past edges of openings at head and sill) each side of all openings and each end of all

walls, unless noted otherwise on drawings. 12. Before block is placed on concrete, thoroughly clean concrete and remove all laitance and loose material. Roughen concrete surface to 46" amplitude. 13. Concrete block masonry shall be built to preserve the unobstructed vertical

continuity of the cells. All head and bed joints shall be solidly filled with mortar for a distance in from the face of the unit not less than the thickness of the face shell. Bond shall be provided by lapping successive courses or by equivalent mechanical

14. Vertical cells shall have vertical alignment sufficient to maintain a clear unobstructed continuous vertical cell measuring not less than 2"x3". 15. Low Lift (lift height up to 5'-4")

All cells shall be filled solidly with grout. Grout shall be placed in a continuous pour in lifts not exceeding 5-4" where cleanouts are not provided. All grouting shall be done under the continuous observation of the owner's testing laboratory.

16. <u>High Lift (lift height greater than 5'-4" and up to 12'-8")</u> Cleanout openings shall be provided in the bottom course of wall to be filled at each lift or pour of grout where such lift or pour of grout is in excess of 5'-4" in height. Maximum lift or pour height shall not exceed 12'-8". Cleanouts shall be provided at each cell. However, if the course at the bottom of the pour is constructed entirely of inverted open-end bond beam units, cleanout openings need only be provided at reinforced cells. Maximum cleanout spacing shall not exceed 32"cc. The cleanouts shall be sealed after inspection and before

17. Thoroughly clean all cells and bond beams of mortar projections, mortar droppings, or other foreign material before grouting.

18. All grout shall be thoroughly consolidated by mechanical vibration during placement in a manner to provide solidly grouted spaces. 19. When grouting is stopped for one hour or longer, horizontal construction joints shall be formed by stopping the pour of grout 1½" below the top of the uppermost unit.

20. All embedded items (bolts, etc.) shall be securely positioned prior to grouting. Provide a minimum of I" grout around all bolts in masonry. See Typical Details Sheet. 21. Pipes and electrical conduits shall not be embedded in concrete masonry except where specifically approved by the structural engineer. 22. Use open end block for all stack bond construction.

Concrete

1. Structural concrete shall attain 28-day compressive strength as required in note #30. Maximum slump shall not exceed 4

2. Concrete mix designs shall be prepared by a registered Civil Engineer, reviewed by Owner's testing laboratory and submitted to the Structural Engineer for review. Selection of concrete mix proportions shall be per ACI 318-14 Section 26.4.3. \$

3. Concrete mix design shall conform to technical specification section P-610. 4. Cementitious materials:

Cement shall conform to ASTM C-150 type I or II. Fly ash shall conform to ASTM C-618. Max quantity of fly ash shall be as given in specs (15% max v.n.o.) 5. Concréte aggrégates shall conform to ASTM C-33 for normal weight concrete and

ASTM C-330 for light weight concrete. 6. Water shall be clean and free from injurious amounts of oils, acids, alkalis, salts, organic materials or other substances deleterious to concrete or reinforcement. 7. Non-shrink grout or drypack shall consist of a premixed nonmetallic formula. See note #27 for additional information.

8. Reinforcing steel shall conform to ASTM A615-grade 60 for #4 and larger, and

ASTM A615-grade 40 for #3 and smaller, except reinforcing steel to be welded shall conform to ASTM A706. Contractor shall submit rebar mill certificates. 9. Welded Wire fabric shall conform to ASTM A-1064. IO. All preheating and welding of reinforcing bars shall be done in accordance with AWS DI.4 latest edition and shall be continuously inspected by a qualified

for Reinforced Concrete Construction". 12. Dimensions shown for location of reinforcing are to the face of bars listed and denote clear coverage. Non-prestressed, cast-in-place concrete coverage shall be as follows, v.n.o.:

laboratory. Contractor shall furnish WPS for all rebar welding to the laboratory.

Reinforcing steel shall be fabricated according to "Manual of Standard Practice

Cast against earth (except slabs) Cast in forms and exposed to earth or weather #6 \$ larger #5 & smaller Beams & columns (ties) Beams & columns (main reinf) Cast-in-place walls (exterior face \$ soil side) see above Cast-in-place walls (interior face - #11 & smaller) Tilt-up walls see details Slabs (on forms)

2" clr from top v.n.o. Slabs (on ground) 13. Splices in continuous reinforcement shall be lapped u.n.o., lap bars per note 31 v.n.o.. Splices in adjacent bars shall be greater than 5'-0" apart. Splice continuous bars in soil-bearing grade beams, structural slabs on grade and mat foundations as follows u.n.o.: top bars at centerline of support; bottom bars at mid-span. Splice continuous bars in elevated slabs and beams, etc. as follows u.n.o.: top bars at mid-span; bottom bars at centerline of support. All bars size #14 and larger shall be continuous for full length shown or spliced with mechanical couplers as noted in details. Splices in WMF shall overlap 2 squares minimum.

14. The minimum clear spacing between parallel bars in a layer shall not be less than the larger of bar diameter, I", or 33% greater than the maximum aggregate size (nominal), whichever is greatest. This requirement also applies to the clear spacing between different layers of parallel bars and to the clear distance between a contact lap splice and adjacent splices or bars.

provide hooks at ends of all reinforcing ends, corners and intersections, v.n.o. l6. Provide construction/control joints @ all slabs on grade as noted on plan. Proposed joint plan shall be submitted to the Structural Engineering for approval prior to construction. Concrete surface at construction joints shall be thoroughly cleaned and laitance removed. Where indicated on drawings, roughen concrete surface to $\frac{1}{4}$ amplitude. Concrete may be roughened by chipping the entire surface, sand blasting, or raking the surface to provide 1/4" deep deformations.

15. All hooks shall be standard hooks unless otherwise shown or noted. At walls,

Remove all debris from forms before casting any concrete. 18. Reinforcing, dowels, bolts, anchors, sleeves, etc., to be embedded in concrete shall be securely positioned in forms before placing concrete.

19. Pipes and electrical conduits shall not be embedded in structural concrete or concrete fill over metal decking except where specifically approved by the

20. Anchor bolts (AB's) cast in concrete or masonry for wall sill and ledger/ applications shall be headed bolts with cut threads conforming to ASTM A307 or F1554 v.n.o. Refer to "Wood notes" for additional requirements for bolts in contact with pressure treated or fire retardant material. Refer to 'Structural steel' note for requirements for anchor rods cast in concrete for column base plate and steel embed applications. 21. Walls shall be cast in horizontal layers of 2'-0" maximum depth.

22. Concrete in walls, piers or columns shall set at least 2 hours before placing concrete in beams, spandrels, or slabs supported thereon.

23. Consolidate concrete placed in forms by mechanical vibrating equipment supplemented by hand-spading, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with the recommended practices of ACI 309 to suit the type of concrete and project conditions. Concrete shall not be dropped through reinforcing steel (as in walls) so as to cause segregation of aggregates. In such cases hoppers and chutes or trunks of variable lengths shall be used so that the free unconfined fall of concrete shall not exceed 6 feet.

24. Drill through steel columns, beams and plates to pass continuous reinforcing, u.n.o. 25. No wood spreaders allowed. No wood stakes allowed in areas to be concreted. 26. Additional reinforcing in precast or tilt-up panels required for lifting stresses shall

be supplied by Contractor. 27. Provide #5x4-0" diagonal reinforcing at mid-depth of slab at all re-entrant corners typical. This applies to slab on grade, concrete over metal deck, and elevated structural slab conditions.

28. Place non-shrink grout under base plates, sill plates, etc as indicated on the drawings. Non-shrink grout shall be Masterflow 928 Grout by Master Builders Technologies or approved equal with a minimum f'c of 7500 psi @ 28 days. 29. All saw cutting shall be done after initial set has occurred to avoid tearing or damage by the saw blade, but before initial shrinkage has occurred. 30. Notify Structural Engineer a minimum of 48 hours before placing any concrete.

31. Concrete strength: (max slump = 4")

f'c @ 28 days | Aggregate | (lbs/ft³) | WC Ratio 4000 psi 145 0.45 All Concrete

32. Development lengths shall be provided per the table below unless noted otherwise.

	Straight E	3ars		With Standard	d Hooks	
	f'c		Date	f'c		
Bar	3000 psi	4000 psi	Bar .	3000 psi	4000 psi	
#3	15"	21"	#3	6"	6"	
#4	29"	25"	#4	//"	10"	
#5	36"	31"	#5	14"	12"	
#6	43"	<i>3</i> 7"	#6	17"	15"	
#7	63"	54"	#7	20"	17"	
#8	72"	62"	#8	22"	19"	
#9	80"	70"	#9	25"	22"	
#10	80"	79"	#10	28"	24"	

85" | #II | 3I" | 98" 33. Concrete finish shall be as required by the airport. A hard trowel finish is desired inside the building. Contractor shall note that the concrete mix requires 2% ± 0.5% entrained air for interior hard trowel finish areas. Contractor shall exercise extreme caution so that the finishing operations do not cause surface delamination or other defects. Any defective surface finish shall be repaired or replaced by the contractor at no cost to the owner.

34. Areas of concrete located outside of the building shall have 5% ± 1.2% air entrainment and shall have a broom finish.

building shell but be completed and closed in over the slab prior to winter and

35. Concrete slab shall not be constructed and left exposed over the winter. The

freezing temperatures to protect the slab from freezing.

Structural Steel

I. Fabrication, erection and materials shall conform to the specifications and standards of the AISC, as contained in the "AISC 360-16 Specifications of Structural Steel Buildings" & the "AISC Manual of Steel Construction", 15th edition

and California Building Code latest edition. 2. Structural steel shall conform to the following specifications, v.n.o.:

Wide Flanges (W, WT)	ASTM A992
Wide Flanges (S, M), Angles (L)	ASTM A572
Channels (C), Misc Channels (MC)	ASTM A36 (<8"), ASTM A992 (>8
Hollow Structural Steel (HSS)	ASTM A500, Gr. C (Fy = 50 ksi)
Steel Circular Pipes (P)	ASTM A53, Type E or S, Gr. B
<u>Plates</u>	s
Column Base Plates	ASTM A36
Brace Gusset Plates	ASTM A36
Beam Shear Connection Plates	ASTM A36
Column Continuity Plates	ASTM A572, Gr. 50
Beam Stiffener Plates	ASTM A36
Deck Closure Plates	ASTM A36
Stainless Steel Plates & Bars	ASTM A276
Other	ASTM A36
<u>Nuts, Bolts, R</u>	ods, & Washers
General Bolts	ASTM F3125, Gr A325-N
Slip Critical Bolts (see note #4 below)	ASTM F3125, Gr A325-SC
High Strength Bolts	ASTM F3125, Gr A325-N or Gr A490
Machine Bolts (general use)	ASTM A307
Bent & Headed Anchor Bolts	ASTM F1554, Gr. 36, 55, or 105
Partial & Fully Threaded Anchor Rods	ASTM F1554, Gr. 36, 55, or 105
Fully Threaded Rod (general use)	ASTM A36 (A307 Gr. A for 3/6"4
Welded Shear Connectors	ASTM A108, Gr. 1015 thru 1020
Welded Threaded Studs	ASTM A108, Gr. 1015 thru 1020
Nuts for Bolts & Machine Bolts	ASTM A563
Hardened Washers	ASTM F436
Unhardened Washers	ASTM F844
Plain Washers	ASTM BI8.22.I
Beveled Washers	ASTM BI8.23.1

with cut thread, full diameter body style conforming to ASTM FI554 u.n.o.. Unless noted otherwise, anchor bolts/rods shall be grade 36 except that welded anchor bolts shall be grade 55 per SI Supplementary requirements. All bolted connections and base plates shall have standard cut washers unless noted otherwise. Washers at base plates shall be placed at top and bottom of plate.

4. "Slip-critical" bolted connections: A) "Slip-critical" connections (A325-SC design values with special inspection) are required at all braced frame connections, at all connections along chord lines and drag lines (as noted on plans), and v.n.o., at all bolts in oversized or slotted holes.

B) The special inspector must be present during installation and tightening operation of "slip-critical" connections.

5. All structural steel shall receive minimum of one shop coat of red primer with a minimum dry film thickness of 2.0 mils. Do not shop prime or paint areas to be field welded, fireproofed, galvanized, to receive slip-critical high strength bolts, or to be embedded in concrete. Prior to priming or painting, clean structural steel in accordance with Steel Structures Painting Council (SSPC) recommendations & as required by the primer # paint manufacturer. Provide additional painting as noted in the specifications.

6. All structural steel shall be erected plumb and true to line. Temporary bracing shall be installed and shall be left in place until other means are provided to adequately brace the structure. Contractor responsible for reviewing all base plate and support conditions during erection and bracing as required. See AISC

7. Place non-shrink grout under all base plates before adding vertical load. See Concrete Notes for non-shrink grout requirements

8. Structural steel below grade shall have 3" minimum of concrete cover. 9. Provide $\frac{1}{2}$ \$\psi\$ stitch bolts and ring fills, space at not more than 24" cc for all double

IO. At wood to steel parallel contact, attach with 1/2" welded threaded studs at maximum 32"cc. \$ 6" from ends of wood member, typical unless noted otherwise. II. Holes for unfinished bolts shall be of the same nominal diameter of the bolt plus 1/16".

Use standard AISC gage and pitch for bolts except as noted otherwise. Ho'les for anchor bolts embedded in concrete shall be of the same nominal bolt diameter plus 3/16" unless noted otherwise. 12. Welding shall be done by the electric arc process in accordance with American Welding Society standards, using only certified welders. All groove welds shall have complete penetration unless noted otherwise. All exposed welds shall be ground smooth. All welding to be done using ETOxx electrodes. In addition, welding of ASTM A572 grade 50 steel and ASTM A992 steel shall be done with electrodes capable of depositing weld metal with a maximum diffusible

hydrogen content of 16m1/100q (H16). Weld lengths called for on plans are the net effective lengths required. 13. Minimum fillet welds: 3/16" @ t < 1/2"

1/4" @ t < 3/4" 3/6" @ t > 3/4" 14. Welding Procedure Specifications (WPS) for shop and field pre-qualified weld joints and weld joints qualified by test shall be prepared for review prior for fabrication. All welding procedures that meet there requirements of AWS DI. I Sec. 5.1 shall be considered as pre-qualified. Qualification testing is required when the depth of a partial penetration or complete penetration weld is 2" or greater

15. Structural steel # fasteners that are permanently exposed to weather shall be either primed and painted or hot dipped galvanized in accordance with ASTM A123 & Al53. Repair galvanizing after welding in accordance with ASTM A780. 16. When structural steel & connections will be exposed to view in the completed

building, they shall be fabricated, erected # finished in compliance with

Architecturally Exposed Structural Steel (AESS) quidelines # Section 10 of the AISC 303-22 "Code of Standard Practice for Steel Buildings and Bridges".

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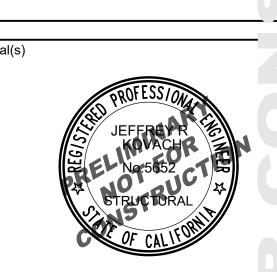
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Project Component

Key Plan

Survey: Brandley Engineering Kimley-Horn Architecture: NORR Structural: Bevier Structural Eng Mechanical: NORR Electrical: NORR Interiors: NORR



Fire SprinklerSacramento Engineering Consultants

NORR

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Bevier Job No: 240424 Project Manager Drawn JON PRICE Project Leader

BEVIER Web: www.bevier.net

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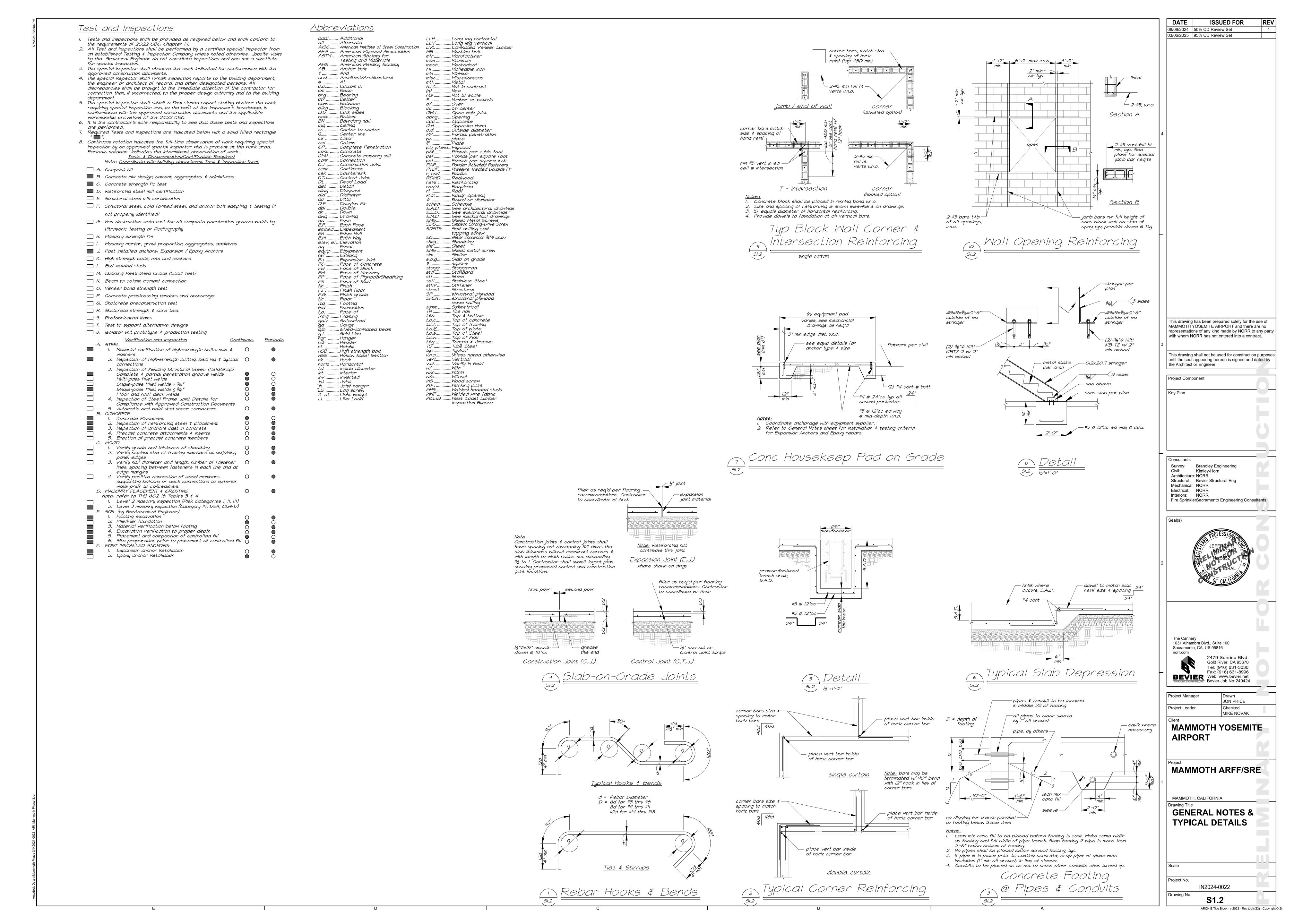
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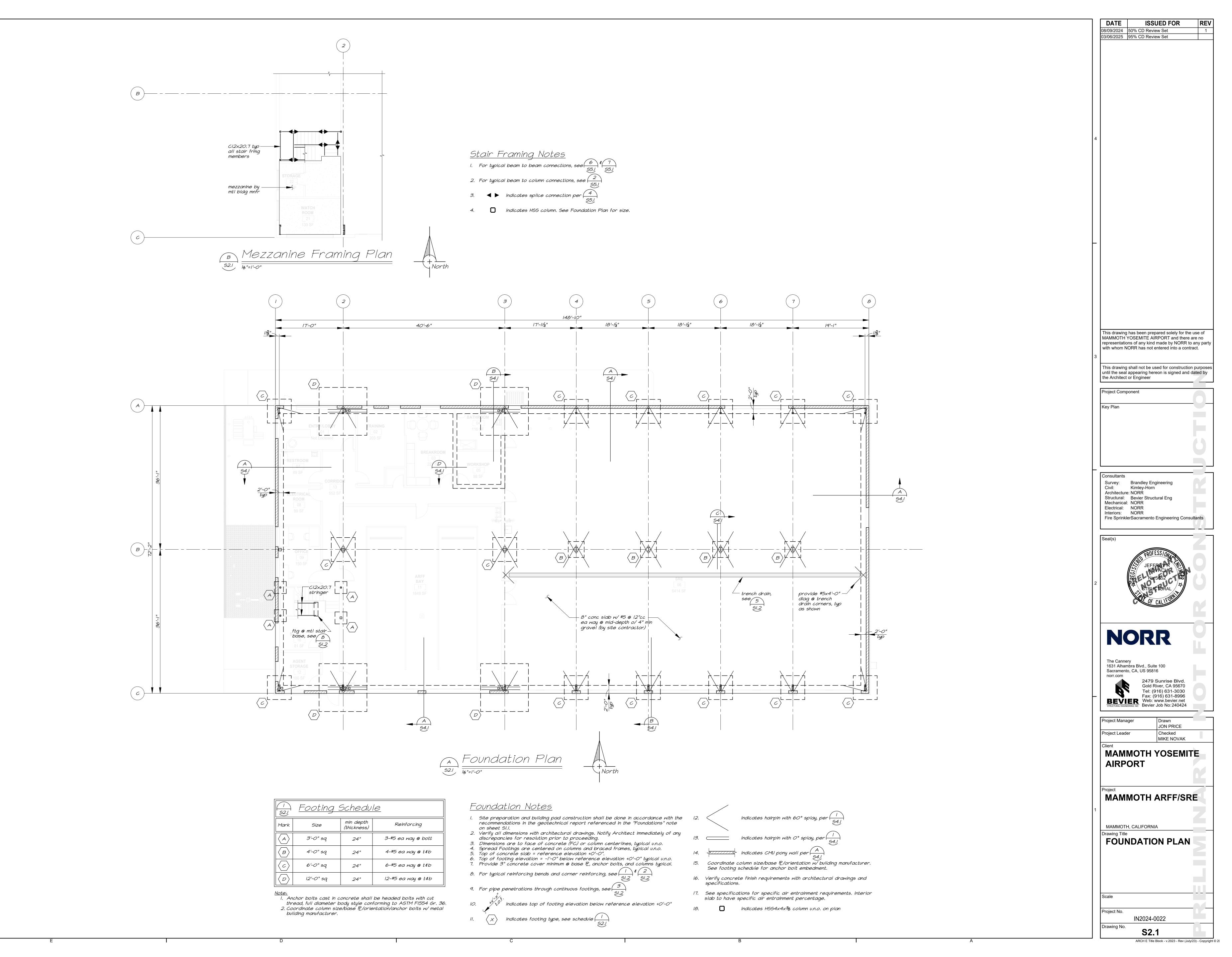
MAMMOTH, CALIFORNIA

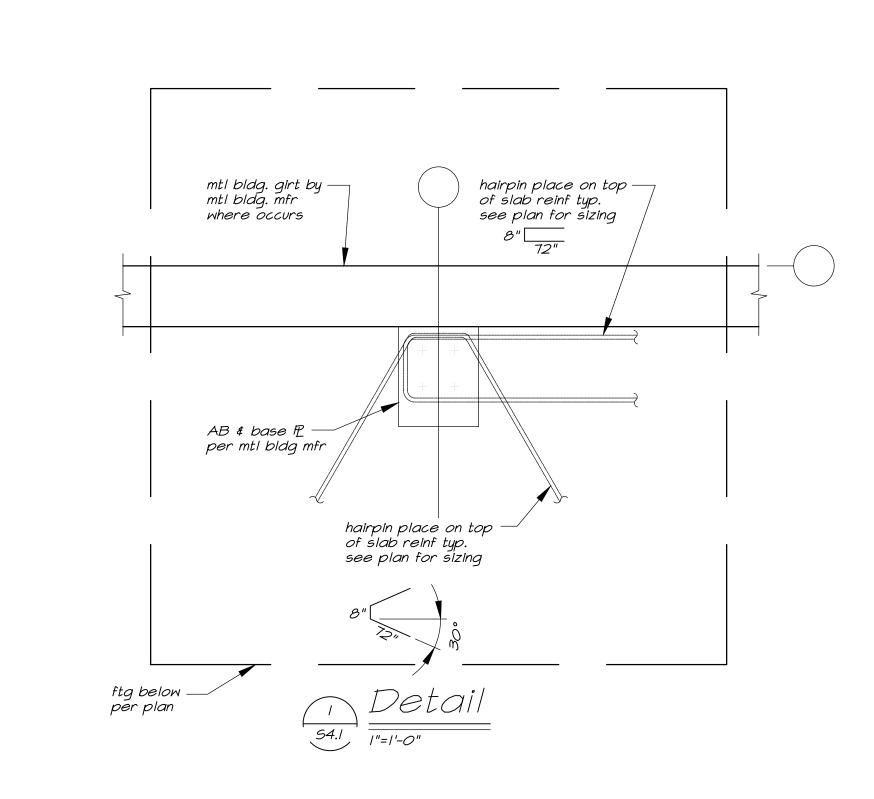
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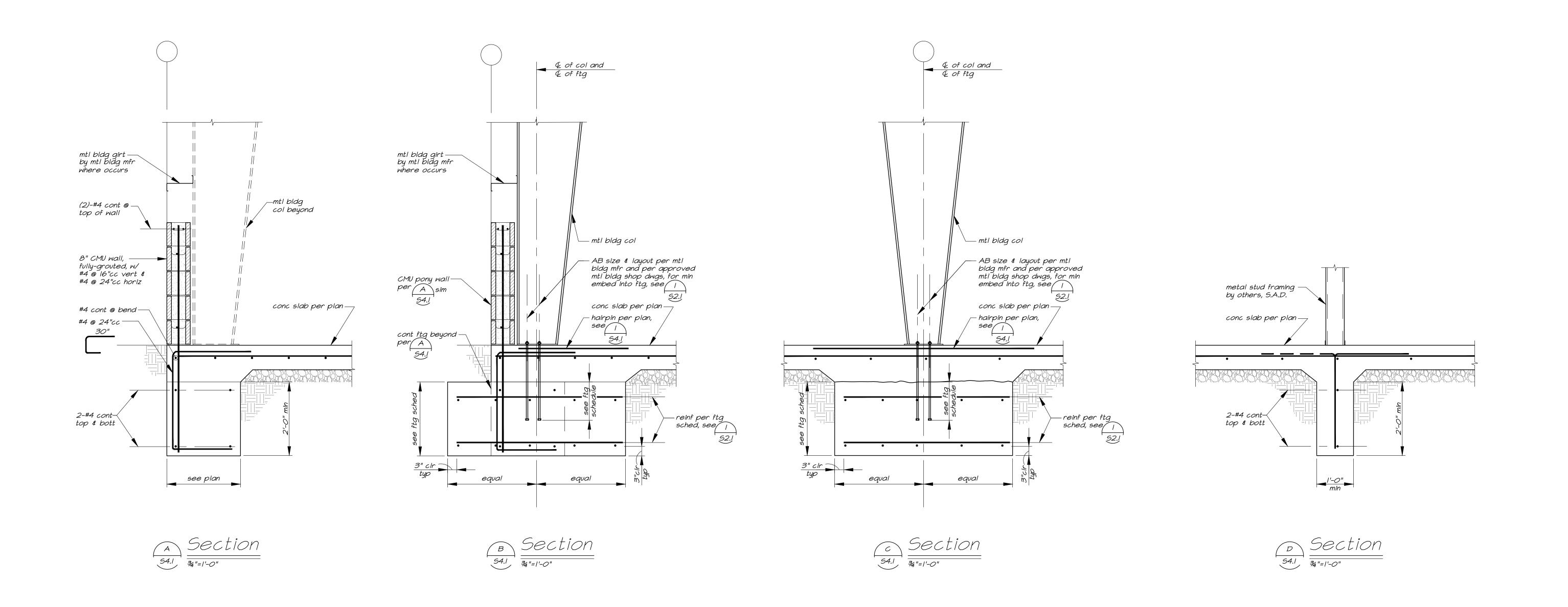
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Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire SprinklerSacramento Engineering Consultants NORR The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com 2479 Sunrise Blvd.
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Tel: (916) 631-3030
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Web: www.bevier.net
Bevier Job No: 240424 Project Manager Drawn JON PRICE Checked Project Leader MIKE NOVAK MAMMOTH YOSEMITE AIRPORT

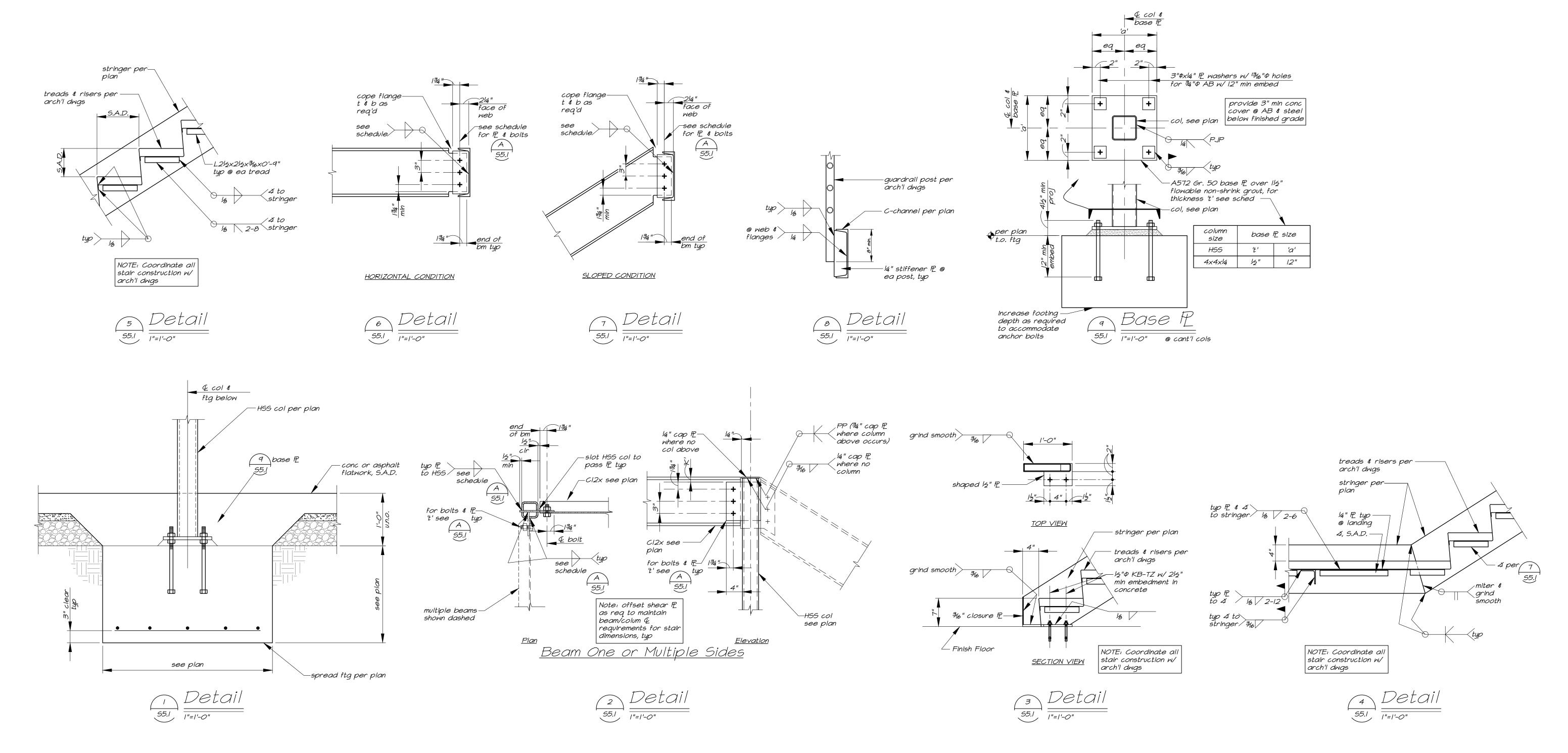
MAMMOTH ARFF/SRE

MAMMOTH, CALIFORNIA
Drawing Title
SECTIONS

IN2024-0022

bm size	No. & Dia. A325-N Bolts per row, u.n.o.	shear P thickness	- W
C6, C8 & C10	2 - 7/8"0	1/4"	1/4"
W8 # WIO	2 - 7/8"0	1/4"	1/4"
C12, W12 & W14	3 - 7/8"Φ	5/16"	1/4"
NI6	4 - 7/8"P	3/8"	1/4"
WI8	5 - ⁷ / ₈ "Φ	3/8"	1/4"
W21	5 - ⁷ / ₈ "Φ	3/8"	5/16"
W24	6 - ⁷ /8"P	1/2"	5/16"
W27	7 - 7/8"P	1/2"	5/16"
W30	7 - ⁷ / ₈ "Φ	1/2"	3/8"
W33	8 - 7/8"0	1/2"	3/8"

I. Use A325-N bolts at connections, typ. A325 SC group A bolts are to be used at specific locations as indicated on framing plans. Use multiple rows of no. \$ dia. shown in schedule to achieve total number of bolts specified on plans. All slip critical connections shall have full-depth shear plates. '



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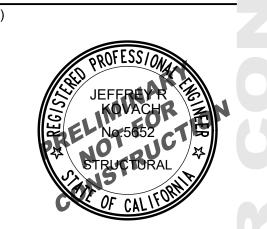
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Project Component

Key Plan

Consultants

Survey: Brandley Engineering
Civil: Kimley-Horn
Architecture: NORR
Structural: Bevier Structural Eng
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Fire SprinklerSacramento Engineering Consultants



NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816



Project Manager Drawn JON PRICE Checked Project Leader MIKE NOVAK

MAMMOTH YOSEMITE **AIRPORT**

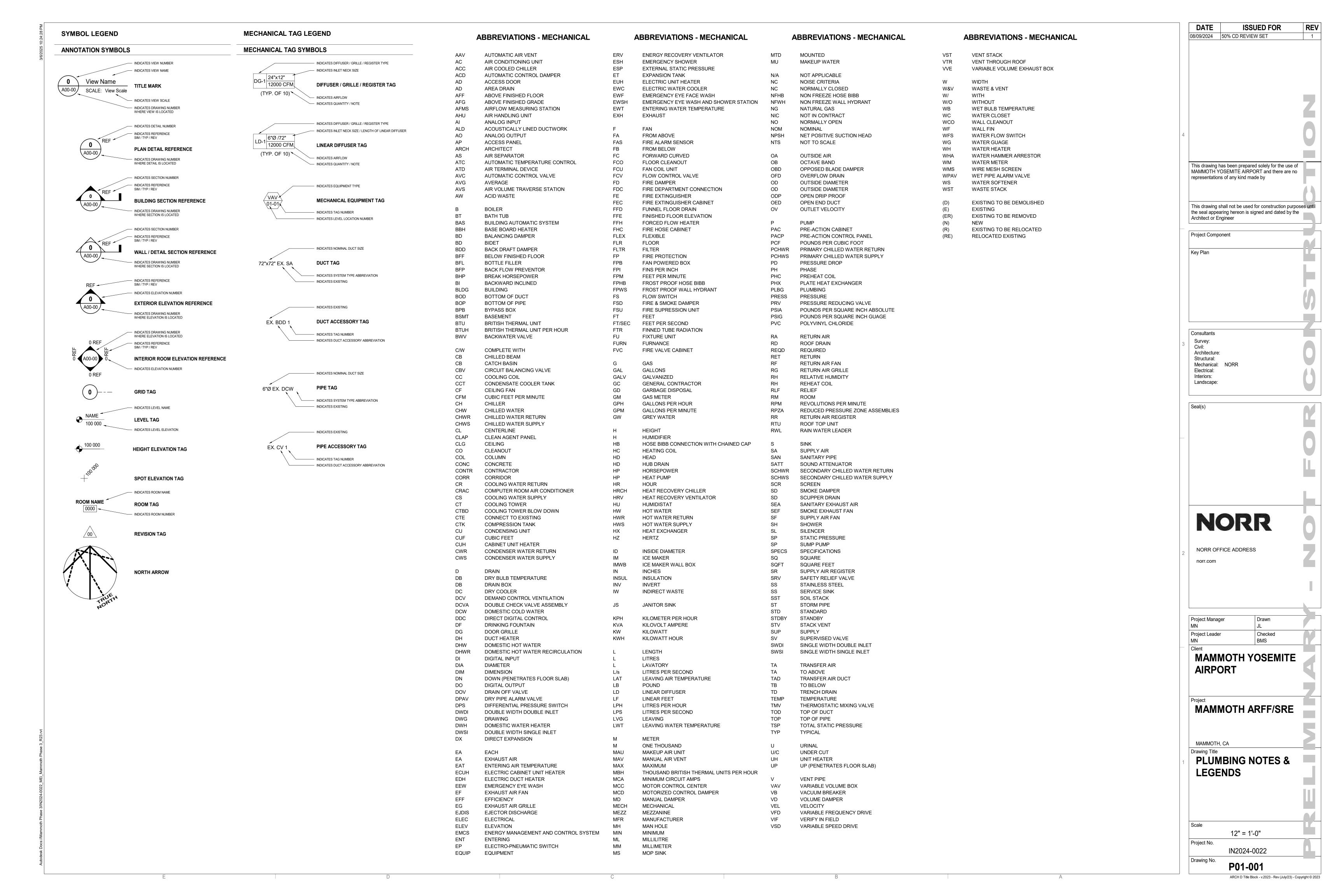
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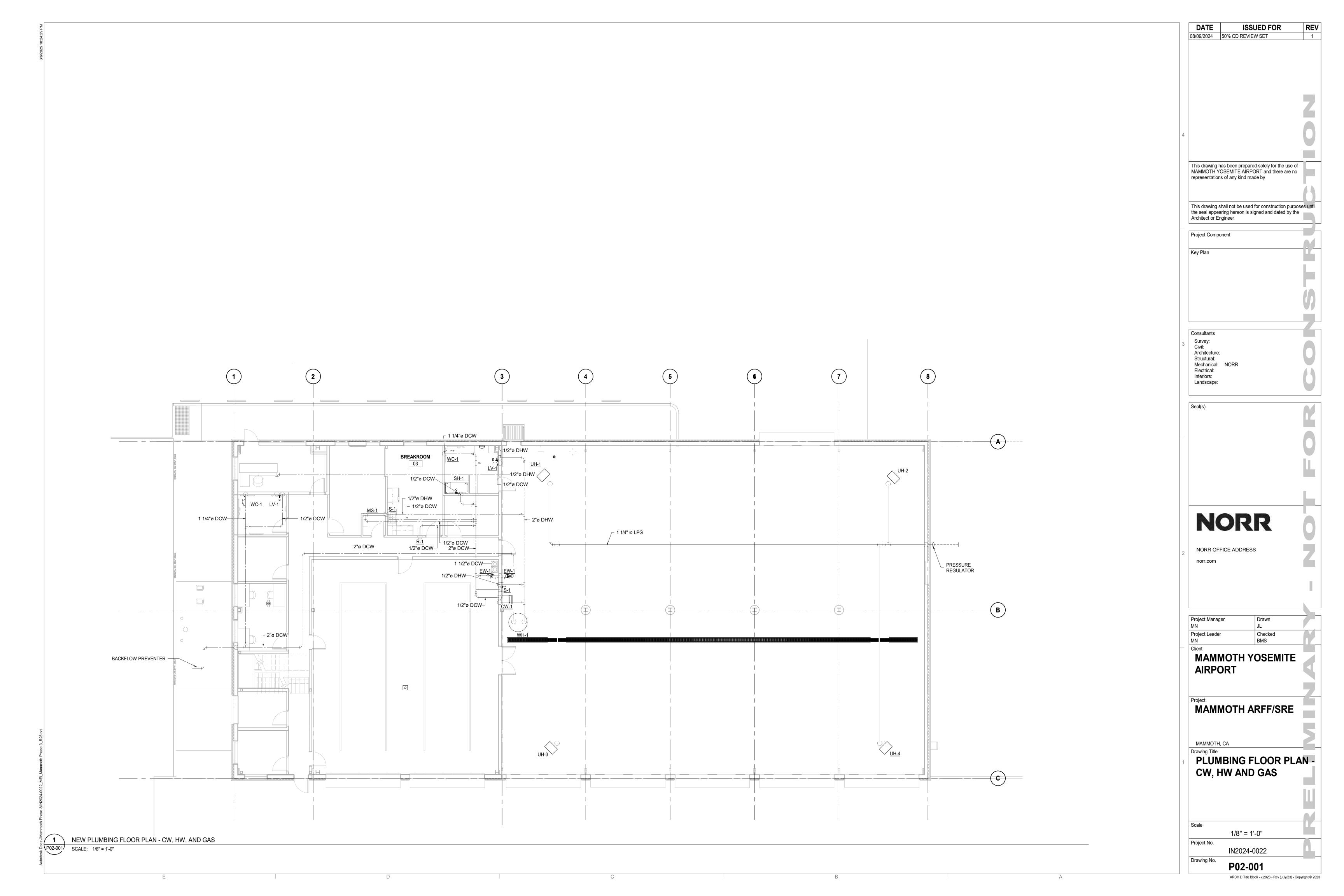
MAMMOTH, CALIFORNIA

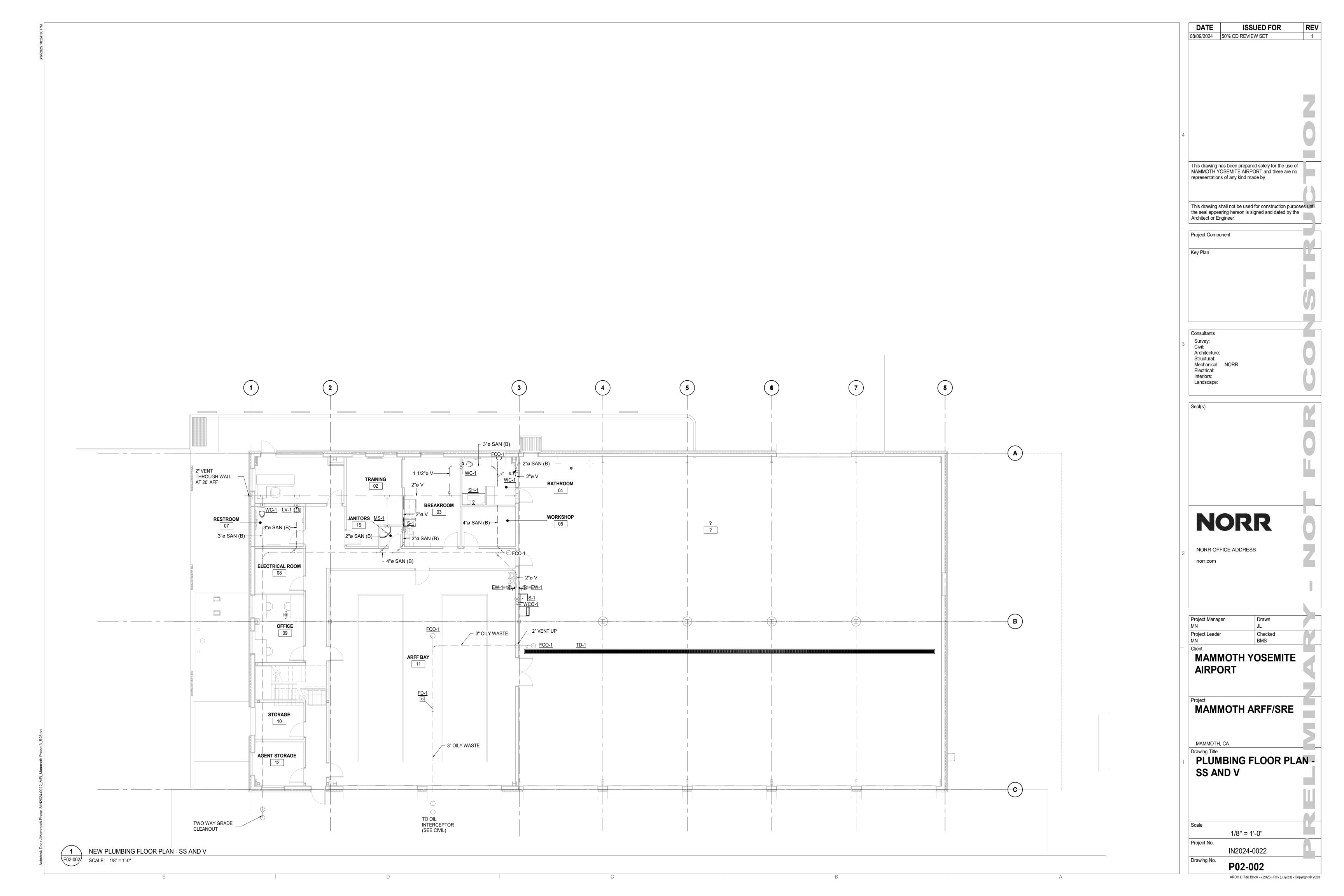
DETAILS

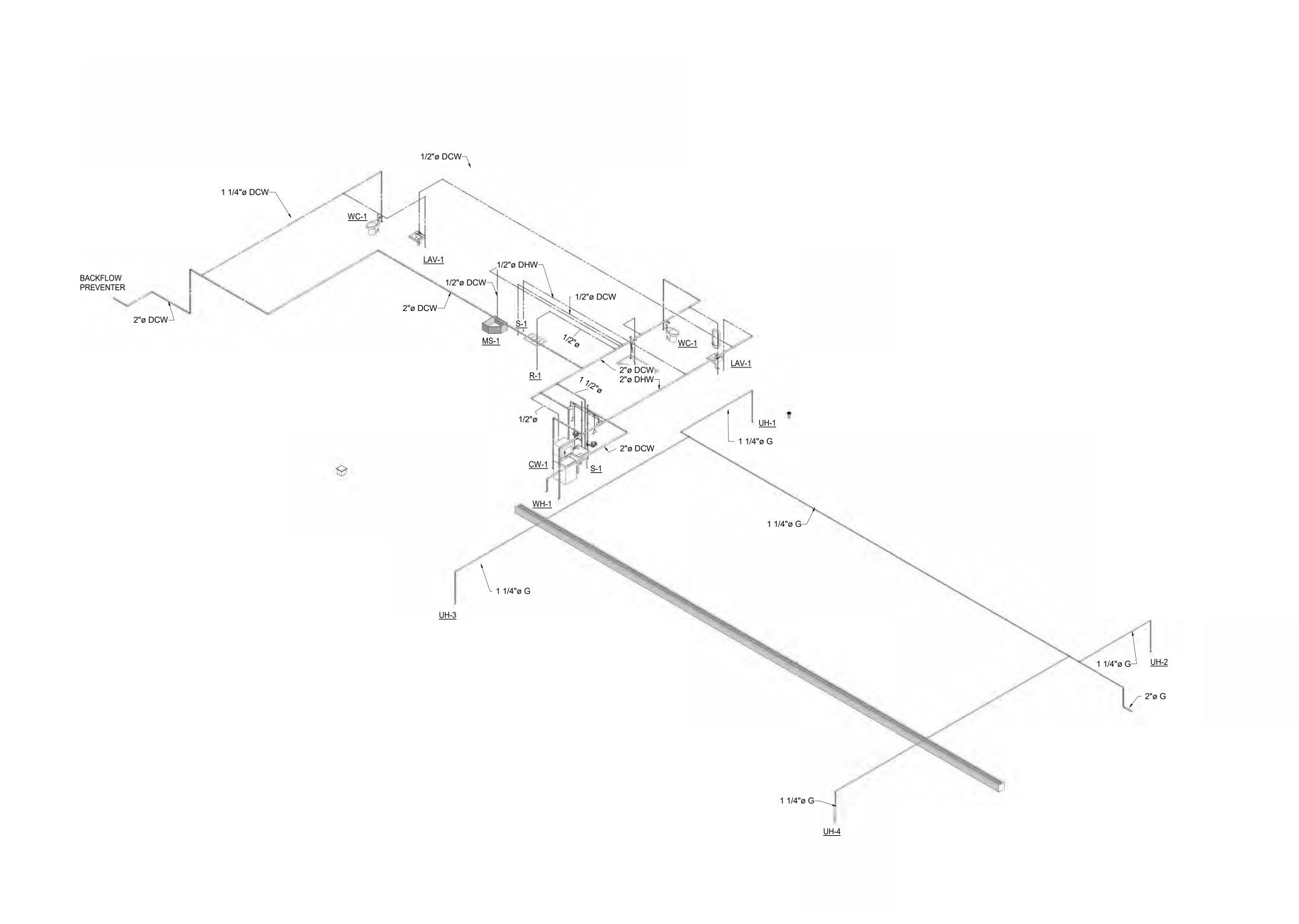
Scale

Project No. IN2024-0022 Drawing No.









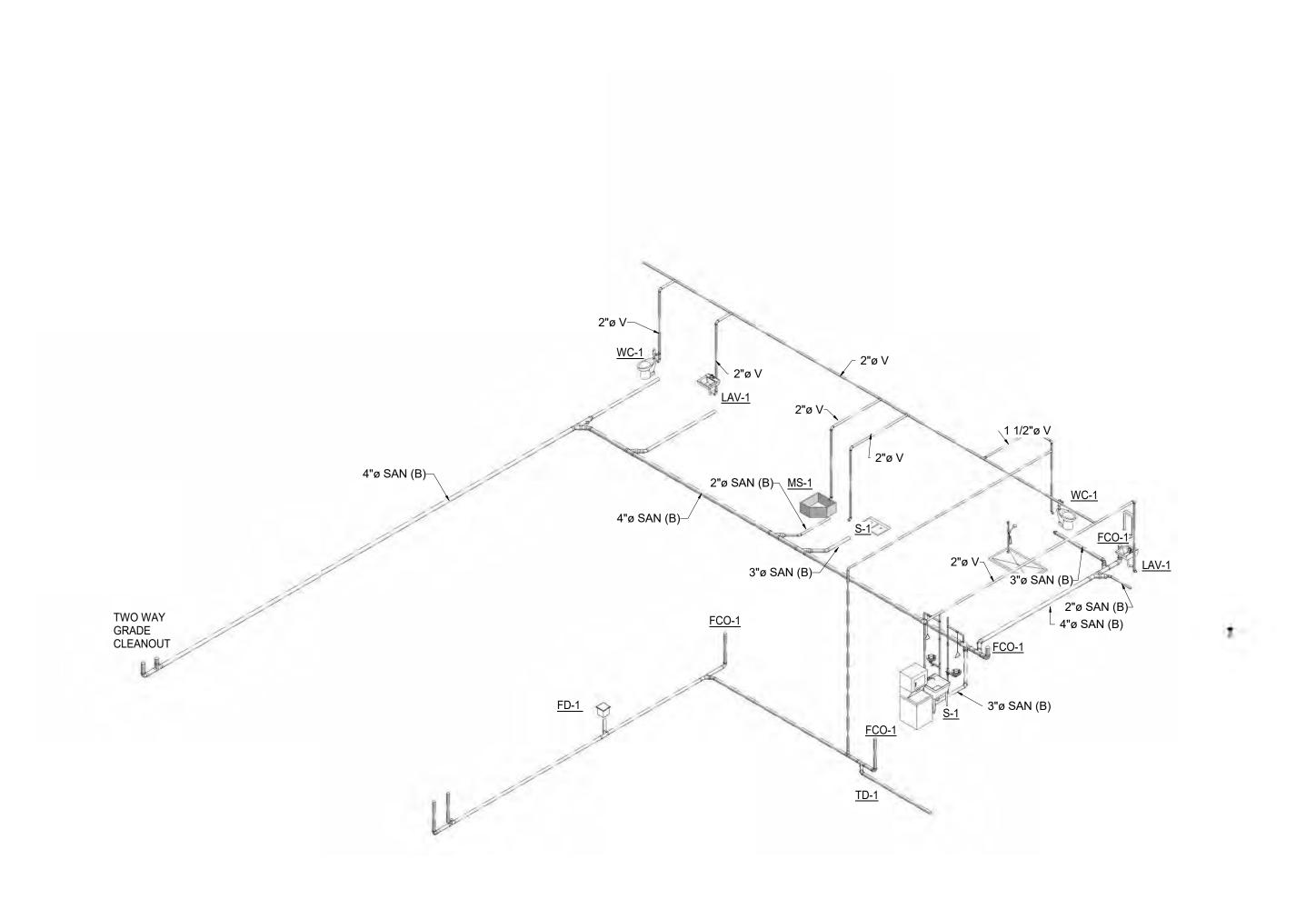
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MAMMOTH YOSEMITE AIRPORT Project

MAMMOTH ARFF/SRE MAMMOTH, CA
Drawing Title
PLUMBING ISOMETRICS -CW, HW, AND GAS Project No. IN2024-0022 P03-001

PUMBING ISOMETRIC CW, HW, AND GAS

SCALE:



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MAMMOTH ARFF/SRE MAMMOTH, CA Drawing Title
PLUMBING ISOMETRICS -SS AND V

DRAINAGE ISOMETRIC - SS AND V

P03-002 SCALE:

P03-002

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IN2024-0022

Project No.

		PLUMBING FIXTURE SCHEDULE
TAG	MANUFACTURER	REMARKS AND SPECIFICATIONS
WC-1	ZURN	MODEL Z5561: TWO PIECE PRESSURE-ASSIST FLOOR MOUNTED FLUSH TANK TOILET. ADA HEIGHT, ELONGATED BOWL, OPEN FRONT SEAT. 1.1 GPF.
LV-1	ZURN: #Z5110 Z8743-PC GRID STRAINER, Z8700 P-TRAP, Z8946-1- NT ADA TRAP	LAVATORY: VITREOUS CHINA DROP-IN LAVATORY, FAUCET HOLES ON 4" CENTERS, FRONT OVERFLOW; FAUCET: DELTA #501 LF-HGMHDF, WITH RP330 POLISHED CHROME AERATOR; LESS POP-UP DRAIN AND LIFT HOLE IN POLISHED CHROME. 1-1/4" TAILPIECE. PROVIDE 3/8" WALL SUPPLIES WITH GRID STRAINER, P-TRAP, ADA TRAP, STOP AND SUPPLY PROTECTORS. ALT: FURNISH AND INSTALL "LAVGUARD" #102 TRAP WRAP BY TRUEBRO FOR PF-2H. TRUEBRO TEL: (800) 340-5969.
SH-1	-	
S-1	JUST	MODEL J-127 STAINLESS STEEL LAUNDRY TUB WITH LEGS. PROVIDE DELTA 55C1513 WALL-MOUNT FAUCET WITH PULL-DOWN SPRAY HEAD.
EW-1	GUARDIAN EQUIPMENT	MODEL: G1902P EYEWASH COMBINATION EYEWASH AND EMERGENCY SHOWER.
FD-1	J.R. SMITH	FLOOR DRAIN MODEL: 2005Y-A, DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER AND ROUND TOP.
WCO-1	J.R SMITH	WALL CLEAN OUT: MODEL 4420 TAPER THREAD LUG WITH ROUND COVER.
WH-1	AO SMITH	MODEL: DRE-52-18 GOLD SERIES. ELECTRIC WATER HEATER. 50 GALLONS. HEAVY-DUTY INCOLOY SHEATHING ELEMENTS AND TEMPERATURE CONTROLS LOCATED BEHIND HINGED CONTROL COMPARTMENT.

PLUMBING FIXTURE CONNECTION SIZE SCHEDULE							
T40	FIVE IDE TVDE	LINE SIZES					
TAG	FIXTURE TYPE	WASTE	TRAP	VENT	COLD	НОТ	
NC-1	WATER CLOSET	3"		1/2"	1 1/4"	-	
LV-1	LAVATORY	2"	1/2"	1/2"	1/2"	1/2"	
LS-1	LAUNDRY SINK	2"	1/2"	1/2"	1/2"	1/2"	
MS-1	MOP SINK	2"	1/2"	1/2"	1/2"	1/2"	
CW-1	CLOTHES WASHER	2"	1/2"	1/2"	1/2"	1/2"	
-D-1	FLOOR DRAIN	2"	1/2"	1/2"	1/2"	1/2"	
S-1	KITCHEN SINK	2"	1/2"	1/2"	1/2"	1/2"	

			_				
SCHE	DULE				WATER SUPPLY FIXT	URE UNI	Т
SIZES				NO. FIXTURES	FIXTURE TYPE	FU/FIX	TOTAL F.U
VENT	COLD	НОТ		2	WATER CLOSET (FV)	5.0	10.0
1/2"	1 1/4"	-		2	LAVATORY	1.0	2.0
1/2"	1/2"	1/2"		1	LAUNDRY SINK	1.5	1.5
1/2"	1/2"	1/2"		1	MOP SINK	3	3
1/2"	1/2"	1/2"		1	CLOTHES WASHER	4	4
1/2"	1/2"	1/2"		1	KITCHEN SINK	1.5	1.5
1/2"	1/2"	1/2"				TOTAL	22.0
1/2"	1/2"	1/2"		<u> </u>			

DRAINAGE FIXTURE UNIT							
NO. FIXTURES	FIXTURE TYPE	FU/FIX	TOTAL F.U				
2	WATER CLOSET	4	8				
2	LAVATORY	1	2				
1	KITCHEN SINK	2	2				
1	LAUNDRY SINK	2	2				
1	MOP SINK	3	3				
1	CLOTHES WASHER	3	3				
-	FLOOR DRAIN	2	-				
		TOTAL	20				

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Project Manager MN Client

MAMMOTH YOSEMITE AIRPORT

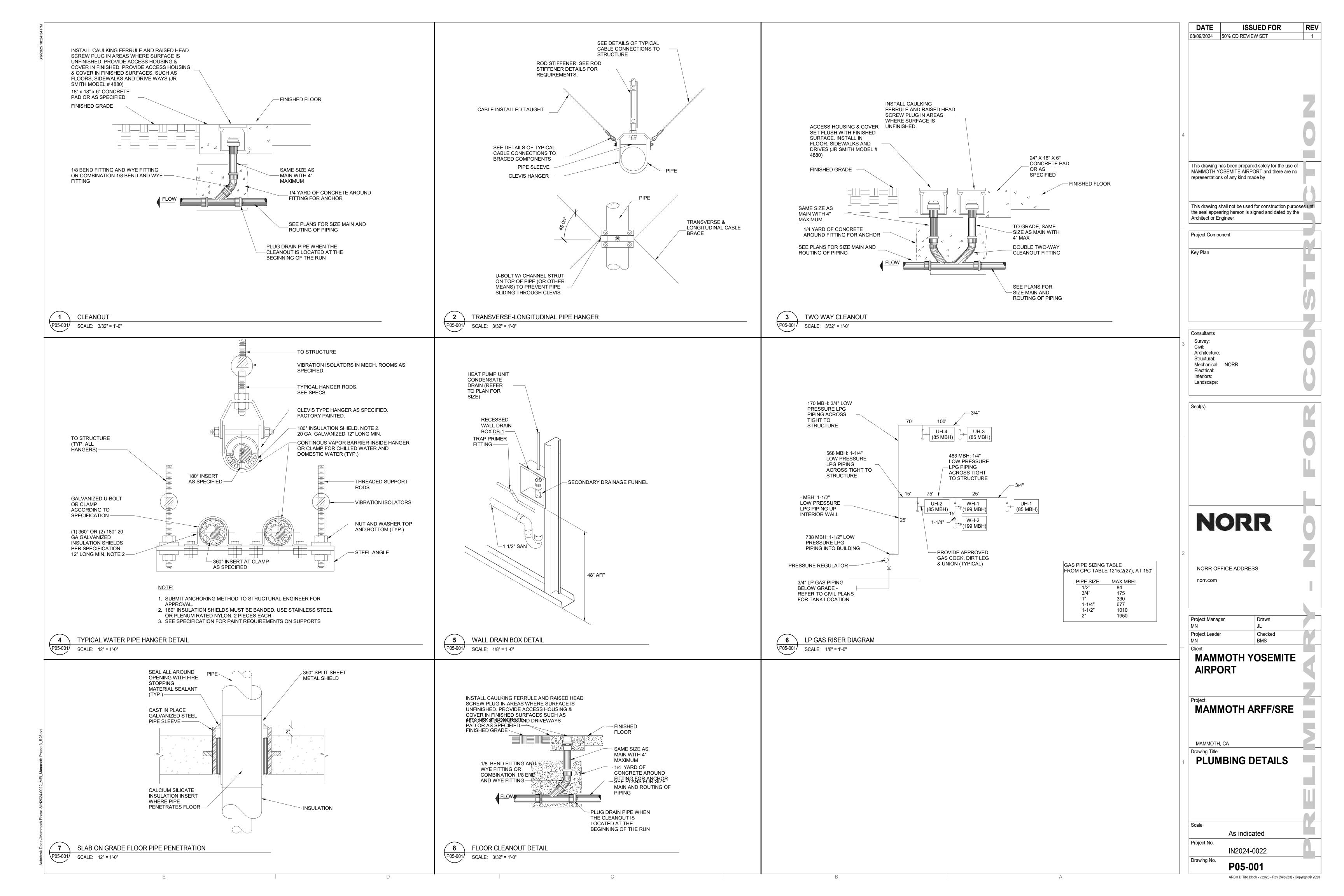
Project

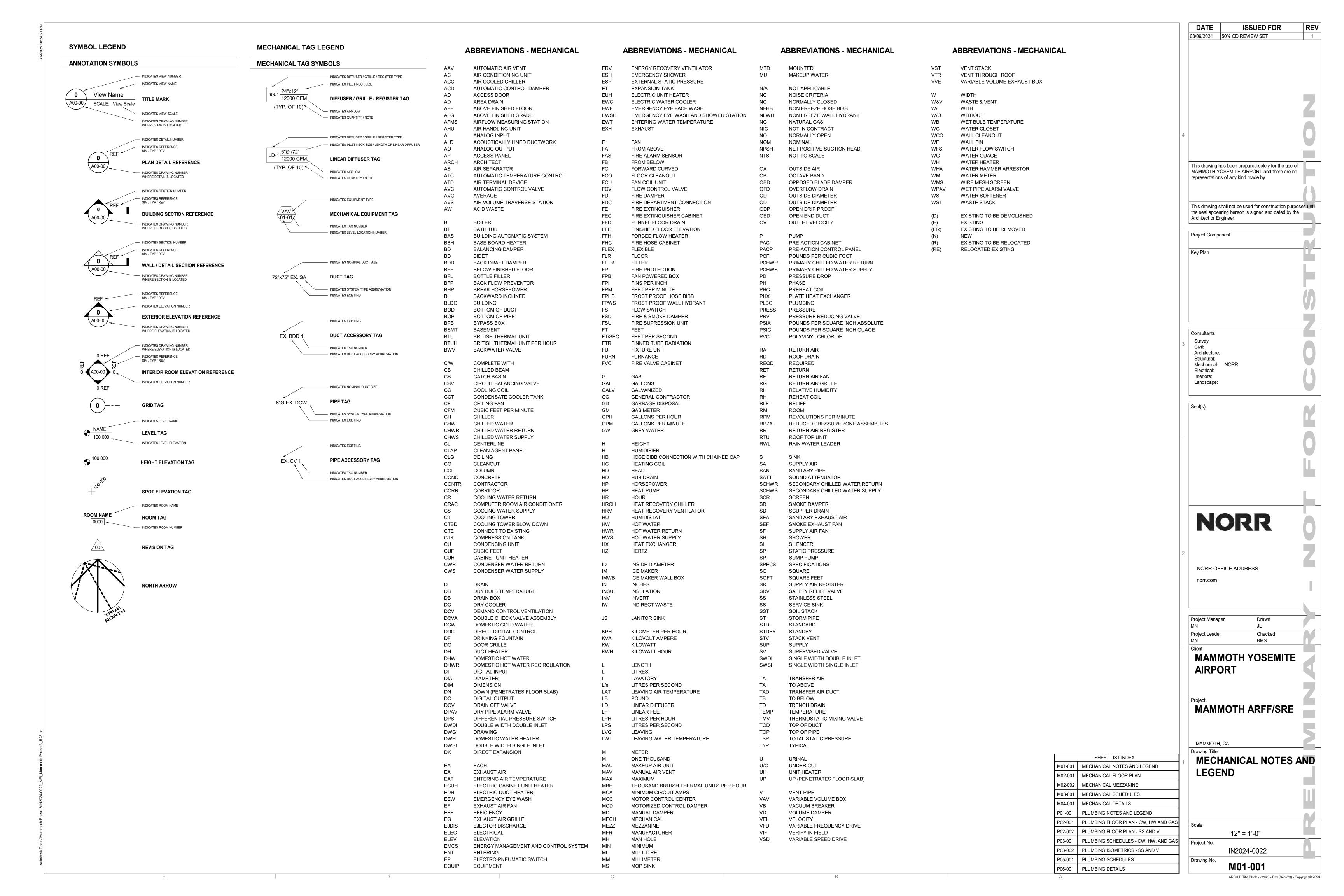
MAMMOTH ARFF/SRE

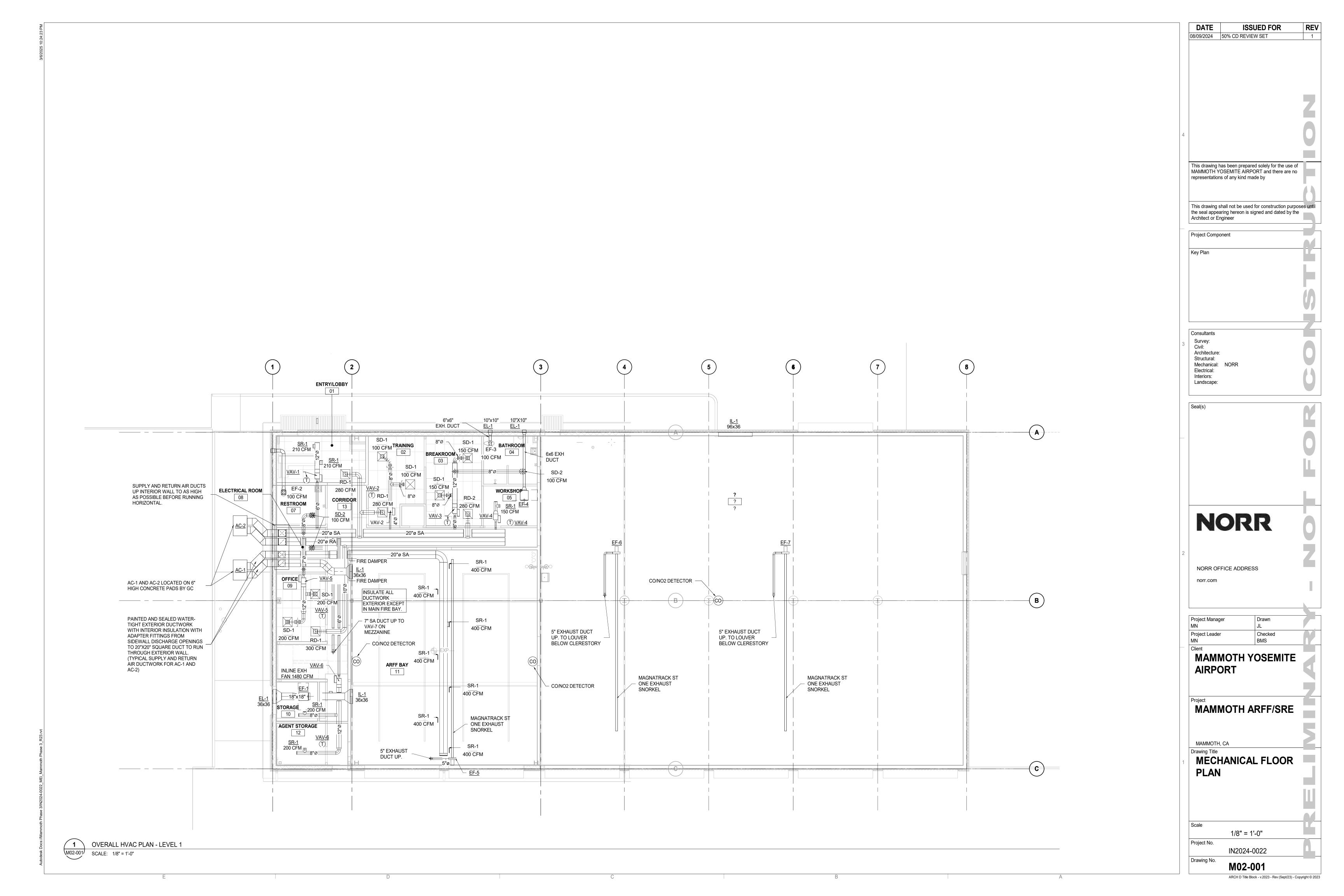
MAMMOTH, CA
Drawing Title
PLUMBING SCHEDULES

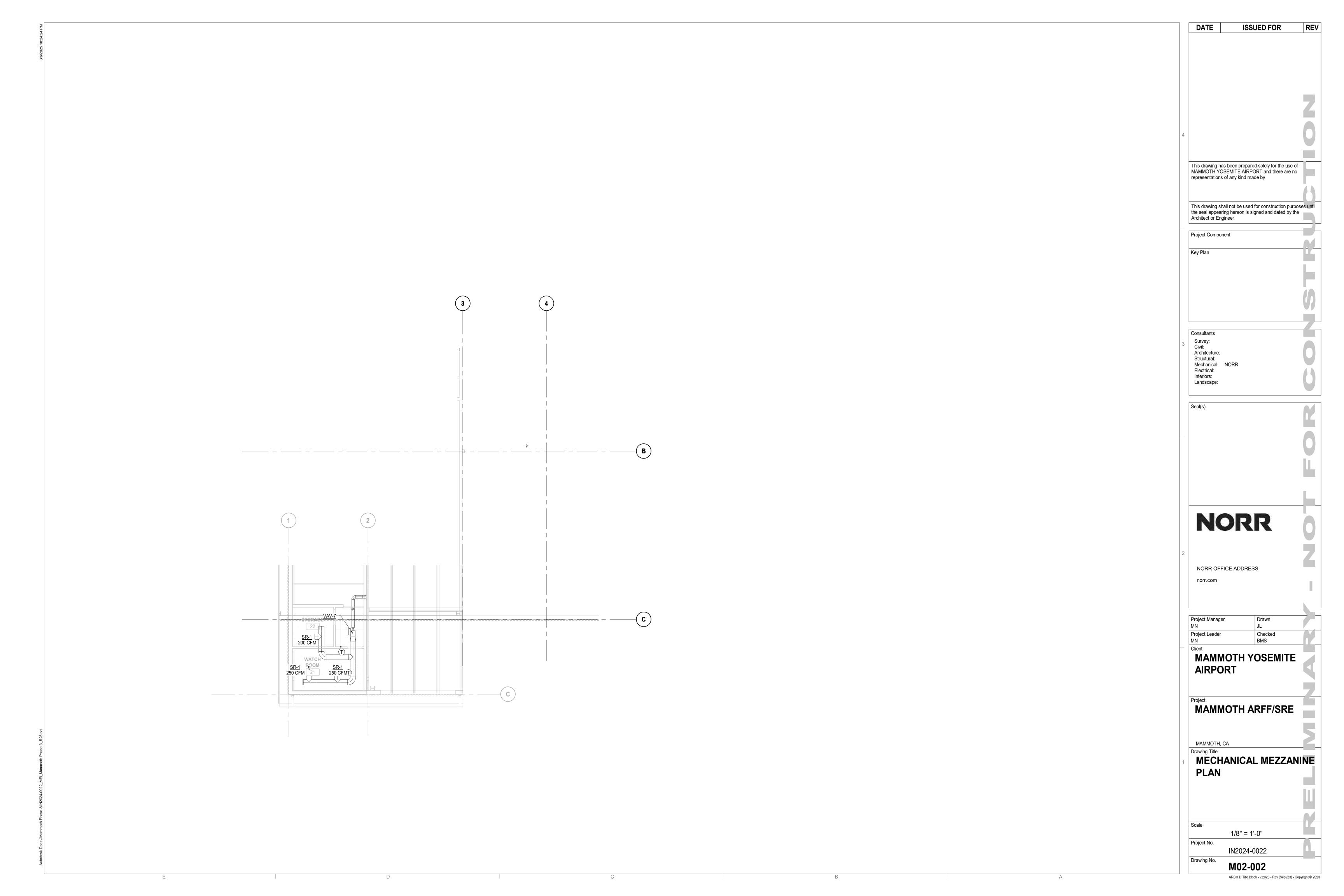
Project No. IN2024-0022

P04-001









	VARIABLE	AIR VOLUME	BOX SCHEDULE	
EQUIPMENT TAG	AREA SERVED	UNIT SIZE	MODEL NUMBER	BRAND
VAV-1	ENTRY/LOBBY	6"	35EC3300L06	CARRIER
VAV-2	TRAINING	4"	35EC3300L04	CARRIER
VAV-3	BREAKROOM BATHROOM	6"	35EC3300L06	CARRIER
VAV-4	WORKSHOP	4"	35EC3300L04	CARRIER
VAV-5	OFFICE, RR ELECTRIC ROOM	7"	35EC3300L07	CARRIER
VAV-6	STORAGE AGENT STORAG	E 6"	35EC3300L06	CARRIER
VAV-7	WATCH ROOM STORAGE	7"	35EC3300L07	CARRIER

	VENTILATION EXHAUST FAN SCHEDULE													
EQUIPMENT TAG	MANUFACTURER	MODEL#	CFM	ESP (IN.)	SERVICE ROOM	ELECTRICAL VOLT PHASE	HP	WEIGHT	NOTES					
EF-1	GREENHECK	BDF-100	1480		-	120V/1PH	1/60		24/7 OPERATION					
EF-2	GREENHECK	CSP-A390-VG	100	0.4	RR 07	120V/1PH	1/60		TURN ON/OFF WITH LIGHT SWITCH					
EF-3	GREENHECK	CSP-A390-VG	100	0.4	RR 04	120V/1PH	1/60		TURN ON/OFF WITH LIGHT SWITCH					
EF-4	GREENHECK	AER-24-02-0310	100	0.3	-	120V/1PH	1/60		WALL SWITCH					
EF-5	NEDERMAN	N24 #14510122	883	-	ARRF BAY 11	208V/1PH	1	37	SEE VE SCHEDULE					
EF-6	NEDERMAN	N24 #14510122	883	-	ARRF BAY 11	208V/1PH	1	37	SEE VE SCHEDULE					
EF-7	NEDERMAN	N24 #14510122	883	-	ARRF BAY 11	208V/1PH	1	37	SEE VE SCHEDULE					
PROVIDE WI	TH: GRAVITY BACKE	RAFT DAMPER.					•							

N I	\cap T	-c	١.

1. PRESSURE INDEPENDENT CONTROL. ALL CONTROLS SHALL BE FACTORY CALIBRATED AND WITHIN THE ABOVE FLOW RANGE.

2. UNIT COMPLETE WITH ATTENTUATOR

	VEHICLE EXHAUST EXTRACTION SCHEDULE												
TAG	R	AIL	MAX		ELE	CTRICAL	L	MODEL					
	LENGTH (FT)	CAPACITY # VEHICLE	EXHAUST TEMP	VOLT	PHASE	AMP	EXHAUST FAN HP	NUMBER	ACCESSORIES				
<u>VE-1</u>	38	2	600	-	-	-	-	MAGNARAIL	(2) EXTRACTION UNITS				
<u>VE-2</u>	54	2	600			-	-	MAGNARAIL	(2) EXTRACTION UNITS				
<u>VE-3</u>	62	2	600	-	-	-	-	MAGNARAIL	(2) EXTRACTION UNITS				
VEF-1	-	-	-	208	3	16.7	5.5		SUPPORT RAIL				
VEF-2	-	-	-	208	3	16.7	5.5		SUPPORT RAIL				
VEF-3	-	-	-	208	3	16.7	5.5		SUPPORT RAIL				

NOTE:

1. ALL MODEL NUMBERS ARE NEDERMAN UNLESS OTHERWISE NOTED.

2. INCLUDES COMPLETE SYSTEM INCLUDING: HB NOZZLES, OUTLET CONNECTION, RADIO RECEIVER AND TRANSMITTER, EXHAUST FAN WITH VFD.

			LOUVER SCHE	DULE								
TAG	MANUFACTURER	MODEL NUMBER	SIZE									
<u>IL-1</u>	RUSKIN	ELF375DX	PER PLAN	ALUMINUM DRAINABLE INTAKE LOUVER. PROVIDE WITH GRAVITY BACKDRAFT DAMPERS								
<u>EL-1</u>	RUSKIN	ELF375DX	PER PLAN	ALUMINUM DRAINABLE EXHAUST LOUVER. PROVIDE WITH GRAVITY BACKDRAFT DAMPERS								
FINISH TO MAT	FINISH TO MATCH ADJACENT EXTERIOR WALL SURFACE. PROVIDE INTGRAL 1-1/2" FLANGE.											

	MODINE UNIT HEATER SCHEDULE													
TAG	MODEL NUMBER	MODEL NUMBER SERVICE ROOM BTU/HR INPUT BTU/HR OUTPUT ELECTRICAL VOLT PHASE AMPS HP CFM NOTES												
UH - 1,2,3,4	GREENHECK	G-060-DGE117XQD	85,000	79,050	120V/1PH	4.35	1/8	1650						

PROVIDE WITH FIELD INSTALLED ACCESSORIES FROM MANUFACTURER: VERTICAL DEFLECTOR BLADES, NATURAL GAS TO PROPANE CONVERSION KIT, SINGLE STAGE ROOM THERMOSTAT, CONDENSATE PUMP, CONDENSATE PUMP SUSPENSION KIT, CONDENSATE PH NEUTRALIZING KIT, HORIZONTAL CONCENTRIC VENT KIT. PROVIDE AND INSTALL ON CONTRACTOR-SUPPLIED THREADED ROD SUSPENSION WITH DIAGONAL BRACING.

AC-1	CARRIER	48GCFJ06A 3M5-0A3A0	2200	1.05	ARFF BAY	208V/3PH	54.9 TC / 47.5 SC	102 IN / 81.6 OUT	2,3,4,5,6,7,8			
AC-2	CARRIER	48LCDB08A 3M5-1A3A0	3000	1.2	ALL OTHER ROOMS	208V/3PH	88.6 TC / 56.6 SC	102 IN / 81.6 OUT	1, 2,3,4,5,6,7,8			
PROVIDE WITH FACTORY OPTIONS: 1. MODULATING POWER EXHAUST (AC-2 ONLY - AC-1 RELIEF AIR IS VIA EF-1) 2. HIGH STATIC BELT DRIVE WITH VFD CONTROLLER 3. LOUVERED HAIL GUARDS 4. HINGED ACCESS PANELS 5. VAV-RTU OPEN CONTROLLER												
	ITH FIELD-INSTALL	ER LED ACCESSORIES:										

SERVICE ELECTRICAL COOLING (TOTAL/ HEATING INPUT/ OUTPUT MBH (LPG)

			GRILLE/REGIS	TER/DIFFUSER SCHEDULE
TAG	MANUFACTURER	MODEL NUMBER	SIZE	
<u>SD-1</u>	TITUS	MCD	SEE PLANS	24X24 MODULE, WITH BORDER TYPE 3 (LAY-IN), 4 WAY ADJUSTABLE CORE
<u>SD-2</u>	TITUS	MCD	SEE PLANS	24X24 MODULE, WITH BORDER TYPE 3 (LAY-IN), PROVIDE TRM FRAME FOR DRYWALL LOCATIONS
<u>RD-1</u>	TITUS	PAR	SEE PLANS	
<u>EG-1</u>	TITUS	PAR	SEE PLANS	24X24 MODULE, WITH BORDER TYPE 3 (LAY-IN), PROVIDE TRM FRAME FOR DRYWALL LOCATIONS
<u>EG-2</u>	TITUS	PAR	SEE PLANS	12X12 MODULE, WITH BORDER TYPE 1 (SURFACE MOUNT), PROVIDE TRM FRAME FOR DRYWALL LOCATIONS
<u>SR-1</u>	TITUS	300RS	6x6	SIDEWALL SUPPLY DIFFUSER. DOUBLE DEFLECTION BLADES. PROVIDE FACE-ADJUSTABLLE OPPOSED BLADE DAMPERS.

PACKAGED GAS/ELECTRIC HVAC UNIT SCHEDULE

	GAS DETECTION MONITOR SCHEDULE												
EQUIPMENT TAG	AREA SERVED	ELECT VOLT	RICAL 1	PART NUMBER	MODEL NUMBER	REMARKS							
CO/NO2	VEHICLE BAYS	120	1	04652-0601-0000	GSM-60								
NOTE: 1. ALL MODEL NUMBERS ARE ENMET UNLESS OTHERWISE NOTED.													

2. INCLUDES: INSTRUMENT WITH CO AND NO2 SENSORS, WALL MOUNTED ENCLOSURE, LCD DIGITAL DISPLAY, AUDIBLE AND VISUAL ALARMS, INTERNAL MOTORIZED SAMPLE PUMP WITH FLOW SWITCH AND ALARMS, AUXILIARY RELAYS, PARTICLE FILTER, INLET

AND OUTLET PORTS, 4-20ma OUTPUT SENSOR.

EQUIPMENT MANUFACTURER MODEL # CFM ESP (IN.)

CONTROLS: PROVIDE DDC CONTROL PANEL IN WATCH ROOM, WITH VAV CONTROLLERS, RTU TEMPERATURE SENSORS, OUTSIDE AIR SENSOR, AND ALL

OTHER ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.

DATE ISSUED FOR 08/09/2024 50% CD REVIEW SET 1

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Project Component

Key Plan

Consultants
Survey:
Civil:
Architecture:
Structural:
Mechanical: NORR
Electrical:
Interiors:
Landscape:

NORR

NORR OFFICE ADDRESS

Project Manager
MN
JL
Project Leader
MN
BMS
Client

MAMMOTH YOSEMITE

AIRPORT

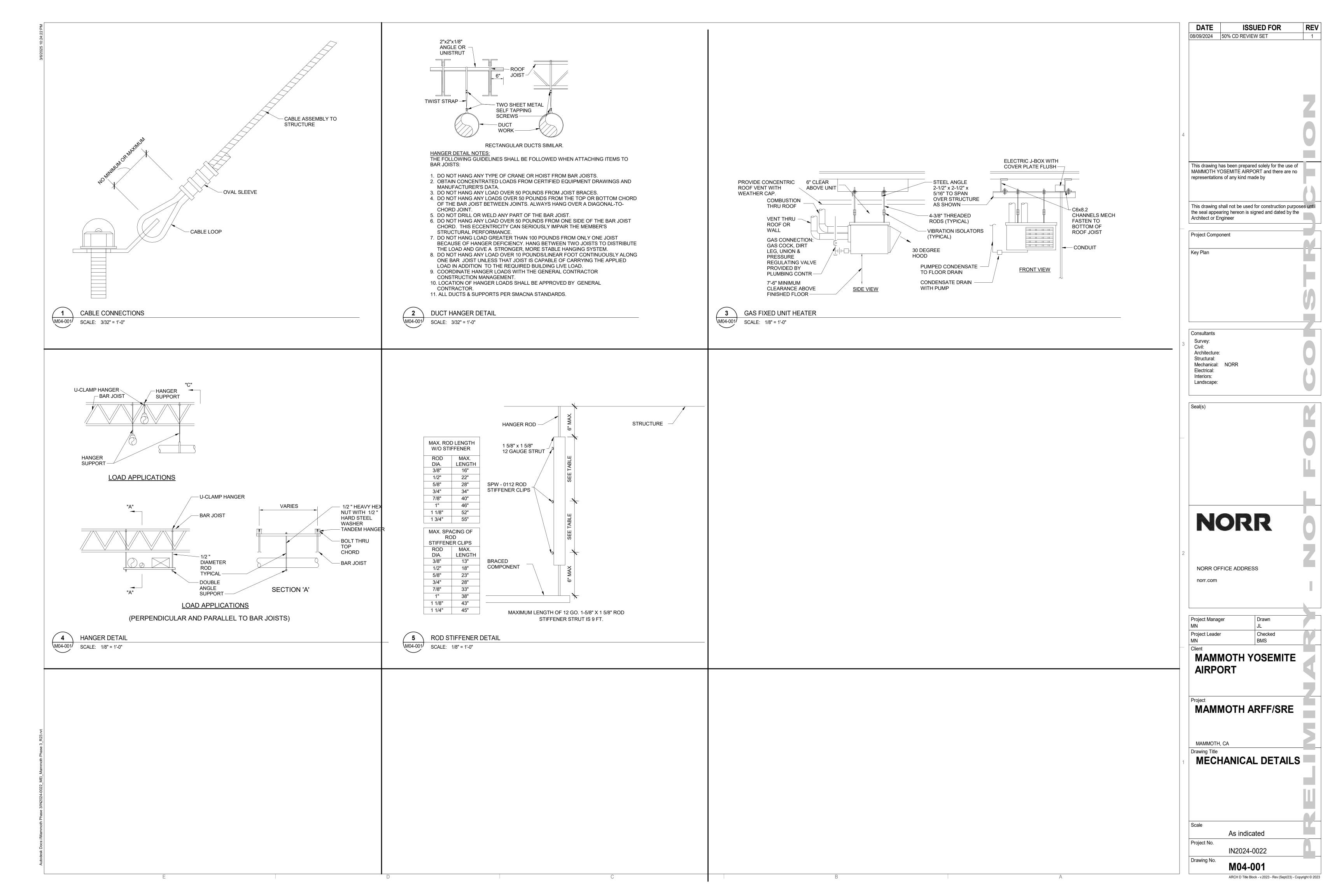
MAMMOTH ARFF/SRE

MAMMOTH, CA
Drawing Title
MECHANICAL SCHEDULES

3/32" = 1'-0"

Project No. IN2024-0022
Drawing No. M03-001

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FIXTURE/EQUIPMENT

ISSUED FOR REV

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Consultants Survey: Architecture: NORR Structural: Mechanical: Electrical: NORR

Architect or Engineer

Project Component

Landscape:

NORR NORR OFFICE ADDRESS

Project Manager Author Checked Project Leader

Checker **MAMMOTH YOSEMITE AIRPORT**

MAMMOTH ARFF/SRF

MAMMOTH, CALIFORNIA

DRAWING LIST & LEGENDS

> 12" = 1'-0" XXXX00-0000

E01-01 ARCH E Title Block - v.2023 - Rev (July/23) - Copyright © 2023

LOCATION: RESTROOM 07 SUPPLY FROM: MOUNTING: Surface

ENCLOSURE: Type 1

VOLTS: 120/208 Wye PHASES: 3 WIRES: 4

A.I.C. RATING: 65k MAINS TYPE: BUS RATING: 400 A MCB RATING: 400 A

СКТ	LG	CIRCUIT DESCRIPTION	TRIP	POLE	Α (VA)	В (VA)	C (VA)	POLE	TRIP	CIRCUIT DESCRIPTION	LG	СКТ
1		EXTERIOR GFCI RECEPT.	20 A	1	900	720					1	20 A	EXTERIOR GFCI RECEPT.		2
3		SRE GARAGE GFCI RECEPT.	20 A	1			720	540			1	20 A	ENTRY/LOBBY RECEPT.		4
5		RESTROOM/ELEC. RM. GFCI RECPT.	20 A	1					720	900	1	20 A	OFFICE RECEPT.		6
7		STORAGE RECEPT.	20 A	1	720	900					1	20 A	TRAINING RECEPT.		8
9		BREAKROOM RECEPT.	20 A	1			720	180			1	20 A	REFRIGERATOR RECEPT.		10
11		COUNTERTOP GFCI RECEPT.	20 A	1					360	180	1	20 A	JANITOR GFCI RECEPT.		12
13		WORKSHOP RECEPT.	20 A	1	540	1080					1	20 A	ARFF BAY GFCI RECEPT.		14
15		SRE GARAGE GFCI RECPT.	20 A	1			1260	1080			1	20 A	MEZZANINE/WATCHROOM RECEPT.		16
17		BATHROOM GFCI RECEPT	20 A	1					180	680					18
19		LEVEL 1 LIGHTING	20 A	1	883	0					3	100 A	GEN PANEL		20
21		LEVEL 1 LIGHTING	20 A	1			574	0							22
23		LEVEL 1 LIGHTING	20 A	1					480	960	1	20 A	LEVEL 1 LIGHTING		24
25		LEVEL 1 LIGHTING	20 A	1	240	288					1	20 A	EXTERIOR LIGHTING		26
27															28
29										0	1	20 A	SPARE		30
31		SPARE	20 A	1	0	0					1	20 A	SPARE		32
33		SPARE	20 A	1			0	0			1	20 A	SPARE		34
35		SPARE	20 A	1					0		1		SPACE		36
37		SPACE		1							1		SPACE		38
39		SPACE		1							1		SPACE		40
41		SPACE		1							1		SPACE		42
				LOAD:	627	1 VA	5074	1 VA	4460) VA					
				AMPS:	53	A	43	Α	37	Α	_				

A - ARC FAULT BREAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L - LOCKED-ON BREAKER, S - SHUNT TRIP BREAKER NOTES:

PANEL TOTALS

TOTAL CONN. LOAD: 15805 VA TOTAL CONN.: 44 A

BRANCH PANEL: PANEL B

LOCATION: RESTROOM 07 SUPPLY FROM: MOUNTING: Surface

ENCLOSURE: Type 1

VOLTS: 120/208 Wye PHASES: 3 WIRES: 4

A.I.C. RATING: 65k MAINS TYPE: BUS RATING: 400 A MCB RATING: 400 A

CKT	LG	CIRCUIT DESCRIPTION	TRIP	POLE	Α (VA)	B (V	/A)	C ((VA)	POLE	TRIP	CIRCUIT DESCRIPTION	LG	CKT
1		VAV-9	20 A	1	0	0					1	20 A	EF-11		2
3		VAV-6	20 A	1			0	0							4
5									0	0	3	50 A	AC-2		6
7	1	AC-1	50 A	3	0	0									8
9	1						0								10
11															12
13															14
15															16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
			L	OAD:	0 '	VA	0 V	/A	0	VA					
			4	AMPS:	0	Α	0 /	A		Α	_				

A - ARC FAULT BREAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L - LOCKED-ON BREAKER, S - SHUNT TRIP BREAKER

BRANCH PANEL: GEN PANEL

LOCATION: SUPPLY FROM: PANEL A MOUNTING: Recessed ENCLOSURE: Type 1

VOLTS: 120/208 Wye PHASES: 3

WIRES: 4

A.I.C. RATING: 14k MAINS TYPE: BUS RATING: 100 A MCB RATING: MLO

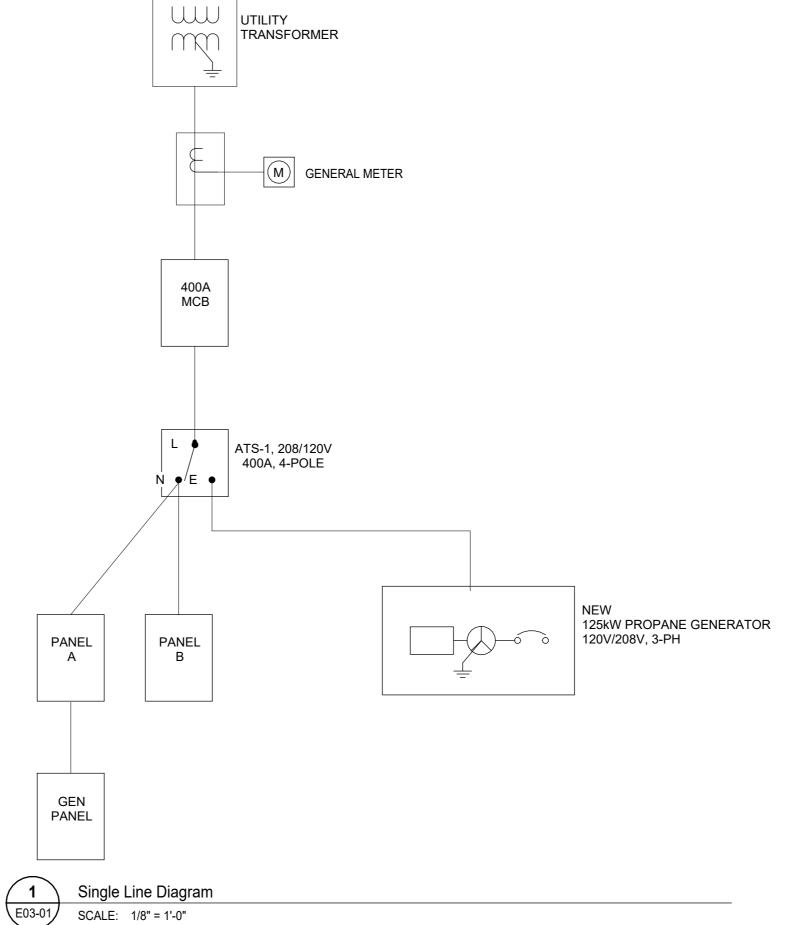
TOTAL CONN. LOAD: 680 VA

TOTAL CONN.: 2 A

PANEL TOTALS

TOTAL CONN. LOAD: 0 VA TOTAL CONN.: 0 A

IERATOR BATTERY CHARGER		POLE	Α(VA)	∣ в(VA)	C(VA)	POLE	IRIP	CIRCUIT DESCRIPTION	LG	CKT
DE .	20 A	1	500	180					1	20 A	WP GFCI RECEPTACLE		2
RE	20 A	1			0	0			1	20 A	SPARE		4
RE	20 A	1					0	0	1	20 A	SPARE		6
CE		1							1		SPACE		8
CE		1							1		SPACE		10
CE		1							1		SPACE		12
CE		1							1		SPACE		14
CE		1							1		SPACE		16
CE		1							1		SPACE		18
CE		1							1		SPACE		20
CE		1							1		SPACE		22
CE		1							1		SPACE		24
CE		1							1		SPACE		26
CE		1							1		SPACE		28
CE		1							1		SPACE		30
		LOAD:	680) VA	0	VA	0	VA					
		AMPS:	6	Α	0	Α	0	Α	_				
BREAKER. E - EXISTING BREAKER.	EL - EXISTI	NG LOA	AD AND	BREAKE	ER. G - 0	GROUNE	FAULT	BREAK	(ER. L -	LOCK	ED-ON BREAKER. S - SHUNT TRIP BREAKER	3	
					, -				,		•		
											TARLE TOTALO		
3F	REAKER, E - EXISTING BREAKER,	REAKER, E - EXISTING BREAKER, EL - EXISTI	REAKER, E - EXISTING BREAKER, EL - EXISTING LOA	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKE	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - 0	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAK	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L -	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L - LOCK	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L - LOCKED-ON BREAKER, S - SHUNT TRIP BREAKER PANEL TOTALS	REAKER, E - EXISTING BREAKER, EL - EXISTING LOAD AND BREAKER, G - GROUND FAULT BREAKER, L - LOCKED-ON BREAKER, S - SHUNT TRIP BREAKER PANEL TOTALS



CONDUI	GROUND	PHASE/NEUTRAL (NOTE 3)	FUSE/CIRCUIT BREAKER - AMP/POLE
3/4"	1 - 12 AWG	2 - 12 AWG	15A/1P & 20A/1P
3/4"	1 - 12 AWG	2 OR 3 - 12 AWG	15A/2P & 20A/2P
3/4"	1 - 12 AWG	3 OR 4 - 12 AWG	15A/3P & 20A/3P
3/4"	1 - 10 AWG	2 - 10 AWG	25A/1P & 30A/1P
3/4"	1 - 10 AWG	2 OR 3 - 10 AWG	25A/2P & 30A/2P
3/4"	1 - 10 AWG	3 OR 4 - 10 AWG	25A/3P & 30A/3P
3/4"	1 - 10 AWG	2 - 8 AWG	35A/1P & 40A/1P
3/4"	1 - 10 AWG	2 OR 3 - 8 AWG	35A/2P & 40A/2P
3/4"	1 - 10 AWG	3 OR 4 - 8 AWG	35A/3P & 40A/3P
3/4"	1 - 10 AWG	2 - 8 AWG	40A/1P & 45A/1P
3/4"	1 - 10 AWG	2 OR 3 - 8 AWG	40A/2P & 45A/2P
3/4"	1 - 10 AWG	3 OR 4 - 8 AWG	40A/3P & 45A/3P
3/4"	1 - 10 AWG	2 - 6 AWG	60A/1P
3/4"	1 - 10 AWG	2 OR 3 - 6 AWG	60A/2P
1"	1 - 10 AWG	3 OR 4 - 6 AWG	60/3P
1"	1 - 8 AWG	2 - 4 AWG	70A/1P
1"	1 - 8 AWG	2 OR 3 - 4 AWG	70A/2P
1 1/4"	1 - 8 AWG	3 OR 4 - 4 AWG	70A/3P
1"	1 - 8 AWG	2 OR 3 - 4 AWG	80A/2P
1 1/4"	1 - 8 AWG	3 OR 4 - 4 AWG	80A/3P
1 1/4"	1 - 8 AWG	2 OR 3 - 3 AWG	90A/2P
1 1/4"	1 - 8 AWG	3 OR 4 - 3 AWG	90A/3P
1 1/4"	1 - 8 AWG	2 OR 3 - 3 AWG	100A/2P
1 1/4"	1 - 8 AWG	3 OR 4 - 3 AWG	100A/3P
1 1/4"	1 - 6 AWG	2 OR 3 - 2 AWG	110A/2P
1 1/4"	1 - 6 AWG	3 OR 4 - 2 AWG	110A/3P
1 1/4"	1 - 6 AWG	2 OR 3 - 1 AWG	125A/2P
1 1/2"	1 - 6 AWG	3 OR 4 - 1 AWG	125A/3P
1 1/2"	1 - 6 AWG	2 OR 3 - 1/0 AWG	150A/2P
2"	1 - 6 AWG	3 OR 4 - 1/0 AWG	150A/3P
2"	1 - 6 AWG	2 OR 3 - 2/0 AWG	175A/2P
2"	1 - 6 AWG	3 OR 4 - 2/0 AWG	175A/3P
2"	1 - 6 AWG	2 OR 3 - 3/0 AWG	200A/2P
2"	1 - 6 AWG	3 OR 4 - 3/0 AWG	200A/3P
2"	1 - 4 AWG	2 OR 3 - 4/0 AWG	225A/2P
2 1/2"	1 - 4 AWG	3 OR 4 - 4/0 AWG	225A/3P
2 1/2"	1 - 4 AWG	2 OR 3 - 250 MCM	250A/2P
3"	1 - 4 AWG	3 OR 4 - 250 MCM	250A/3P
3"	1 - 3 AWG	2 OR 3 - 350 MCM	300A/2P
3"	1 - 3 AWG	3 OR 4 - 350 MCM	300A/3P
3 1/2"	1 - 3 AWG	2 OR 3 - 500 MCM	350A/2P
3 1/2"	1 - 3 AWG	3 OR 4 - 500 MCM	350A/3P
3 1/2"	1 - 3 AWG	2 OR 3 - 500 MCM	400A/2P
3 1/2"	1 - 3 AWG	3 OR 4 - 500 MCM	400/3P

1. PROVIDE CIRCUIT CONDUCTOR AND CONDUIT SIZES INDICATED ABOVE UNLESS OTHERWISE NOTED.

2. CONDUCTOR SIZING BASED UPON 75C THWN INSULATED COPPER CONDUCTOR. 3. FOR TWO AND THREE POLE CIRCUITS PROVIDE NEUTRAL CONDUCTOR IF

REQUIRED BY EQUIPMENT SERVED.

		LIGHTING	G FIXTURE SCHEDULE			
LIGHT FIXTURE TAG	DESCRIPTION	MANUFACTURER	MANUFACTURER	INITIAL COLOR TEMPERATURE	MOUNTING	REMARKS
A1	2X4 LED SWITCHABLE LUMEN FLAT PANEL	LITHONIA LIGHTING	CPANL-2X4-AL06-SWW7-M2	4000 K	RECESSED	
A2	2X2 LED SWITCHABLE LUMEN FLAT PANEL	LITHONIA LIGHTING	CPANL-2X2-AL01-SWW7-M4	4000 K	RECESSED	
B1	48" LOW-PROFILE LED STRIP LIGHT	LITHONIA LIGHTING	ZL1N-L48-3500LM-FST-MVOLT-40K-80CRI-WH	3500 K	MOUNTED	
B2	24" LOW-PROFILE LED STRIP LIGHT	LITHONIA LIGHTING	ZL1N-L24-3500LM-FST-MVOLT-40K-80CRI-WH	3500 K	MOUNTED	
W1	WPX LED WALL PACK	LITHONIA LIGHTING	WPX1-LED-P2-40K-MVOLT-DDBXD-M4	2900 K	MOUNTED	
X1	LED QUANTUM EXIT SIGNS	LITHONIA LIGHTING	LQM-S-W-3-R-120/277-M6		MOUNTED	

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DATE

ISSUED FOR

Project Component

Key Plan

Consultants Survey: Civil: Architecture: NORR Structural:

Mechanical: Electrical: NORR Interiors: Landscape:

Seal(s)

NORR

NORPAONETICE ADDRESS 1631 Alhambra Blvd., Suite 100 Scarcracomento, CA, US 95816 norr.com

Project Manager Author Checked

MAMMOTH YOSEMITE **AIRPORT**

MAMMOTH ARFF/SRF

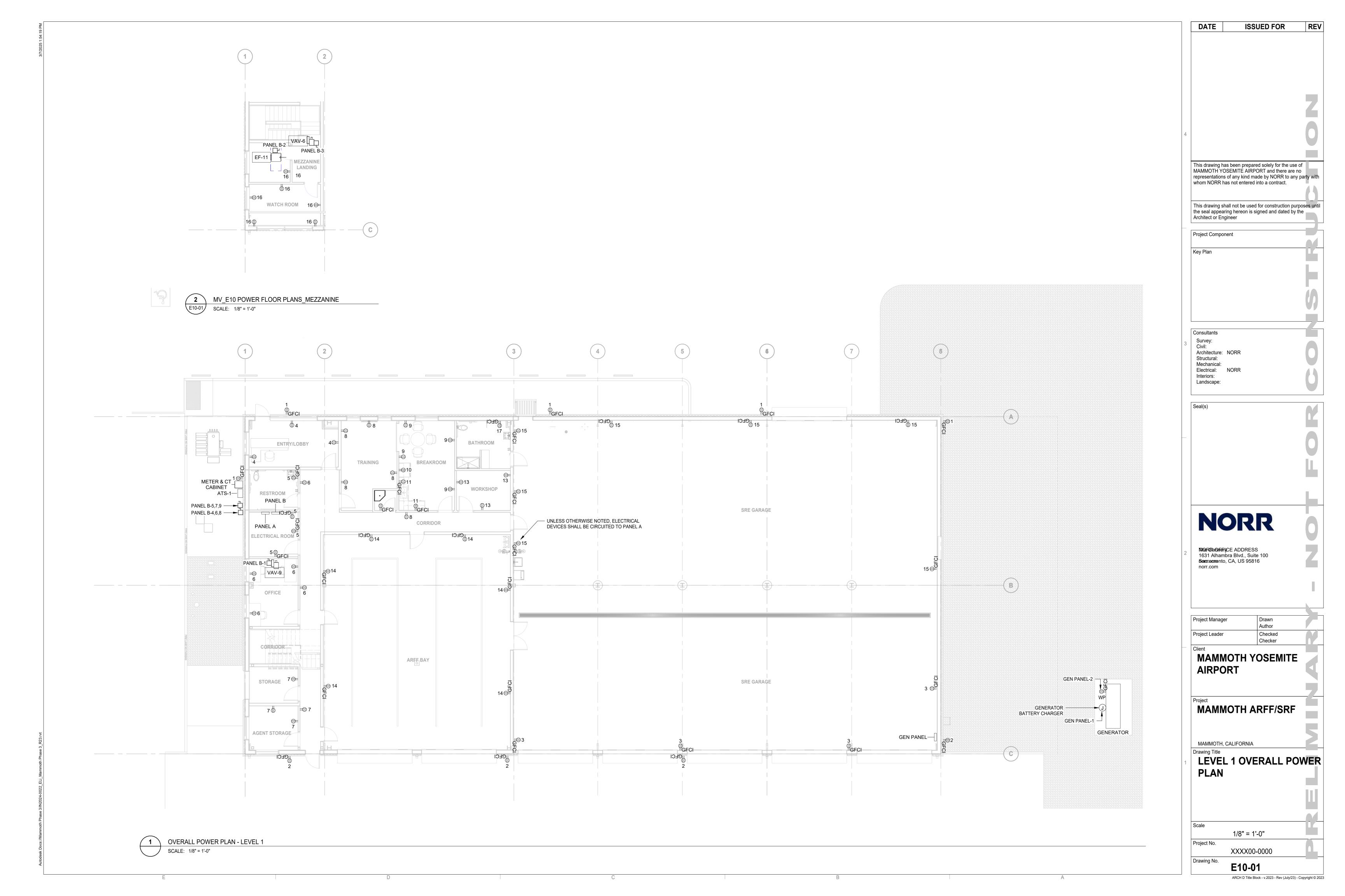
MAMMOTH, CALIFORNIA

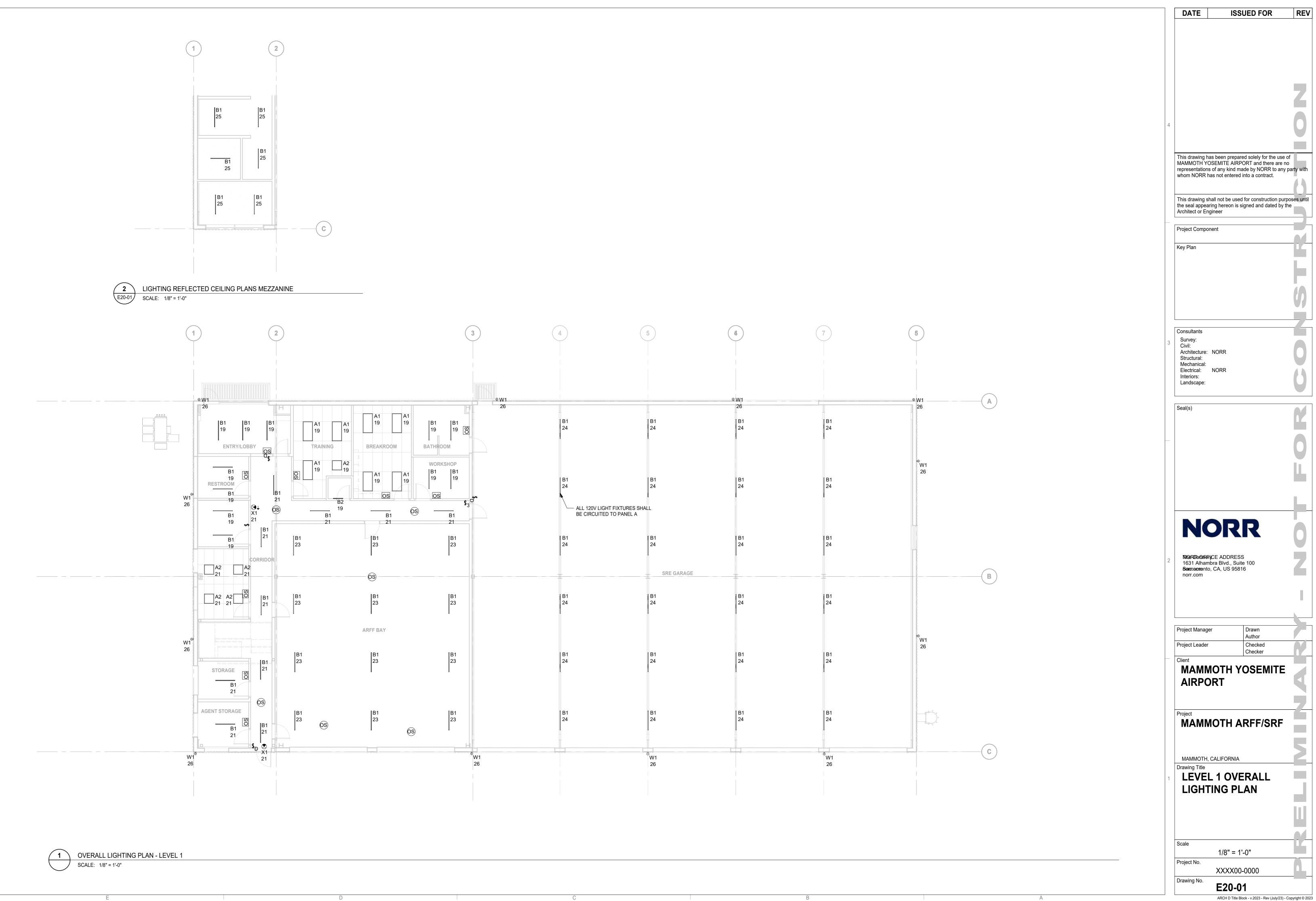
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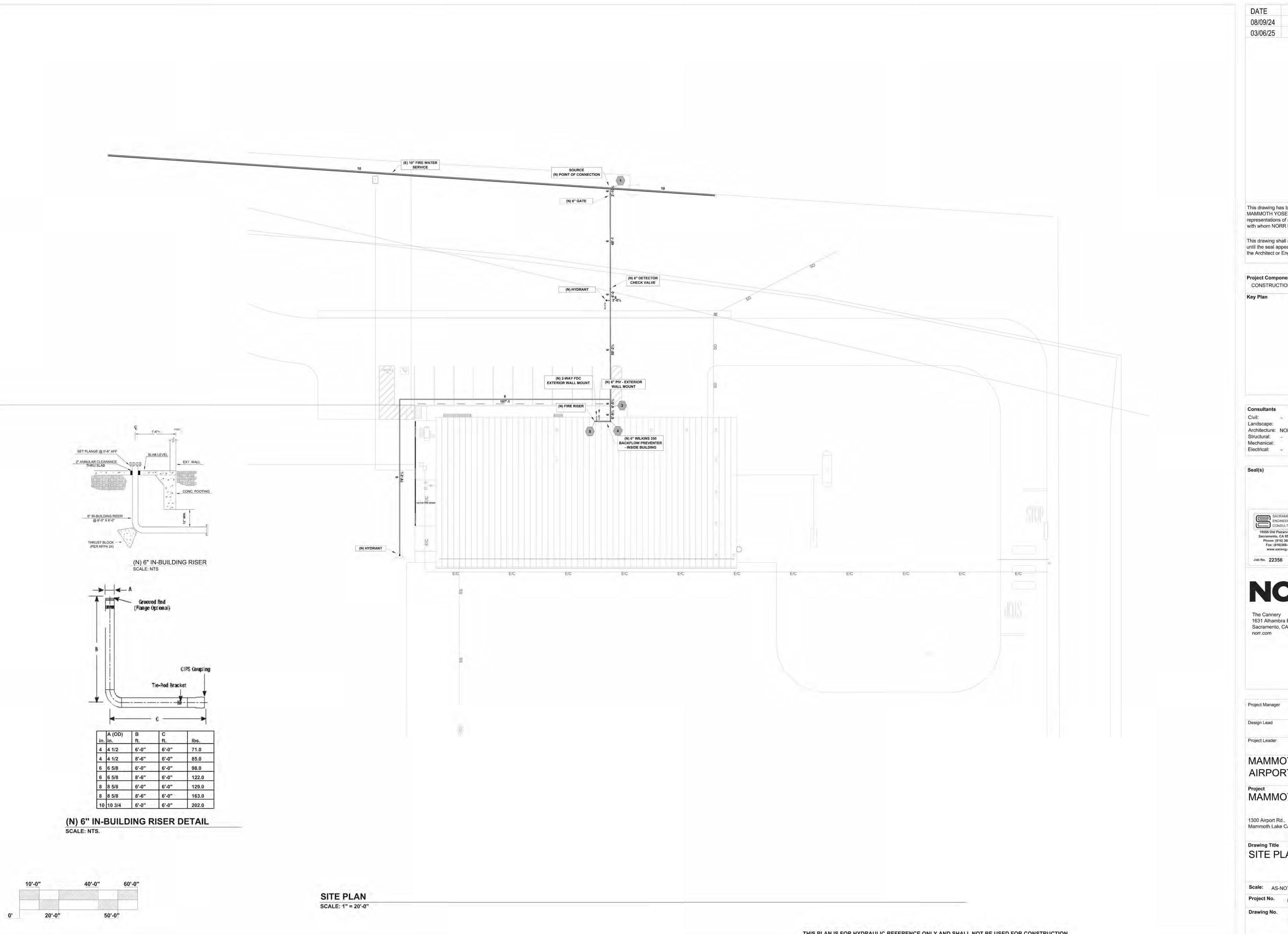
1/8" = 1'-0"

Project No. XXXX00-0000 Drawing No.

E03-01 ARCH D Title Block - v.2023 - Rev (July/23) - Copyright © 2023







ISSUED FOR 50% CD Review Set 03/06/25 95% CD Review Set

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Project Component CONSTRUCTION DOCUMENTS

Key Plan

Consultants

Civil: Landscape: Architecture: NORR AEP Structural: -Mechanical:



Job No. 22356

NORR

The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816 norr.com

Project Manager

Project Leader

MAMMOTH YOSEMITE **AIRPORT**

MAMMOTH ARFF / SRE

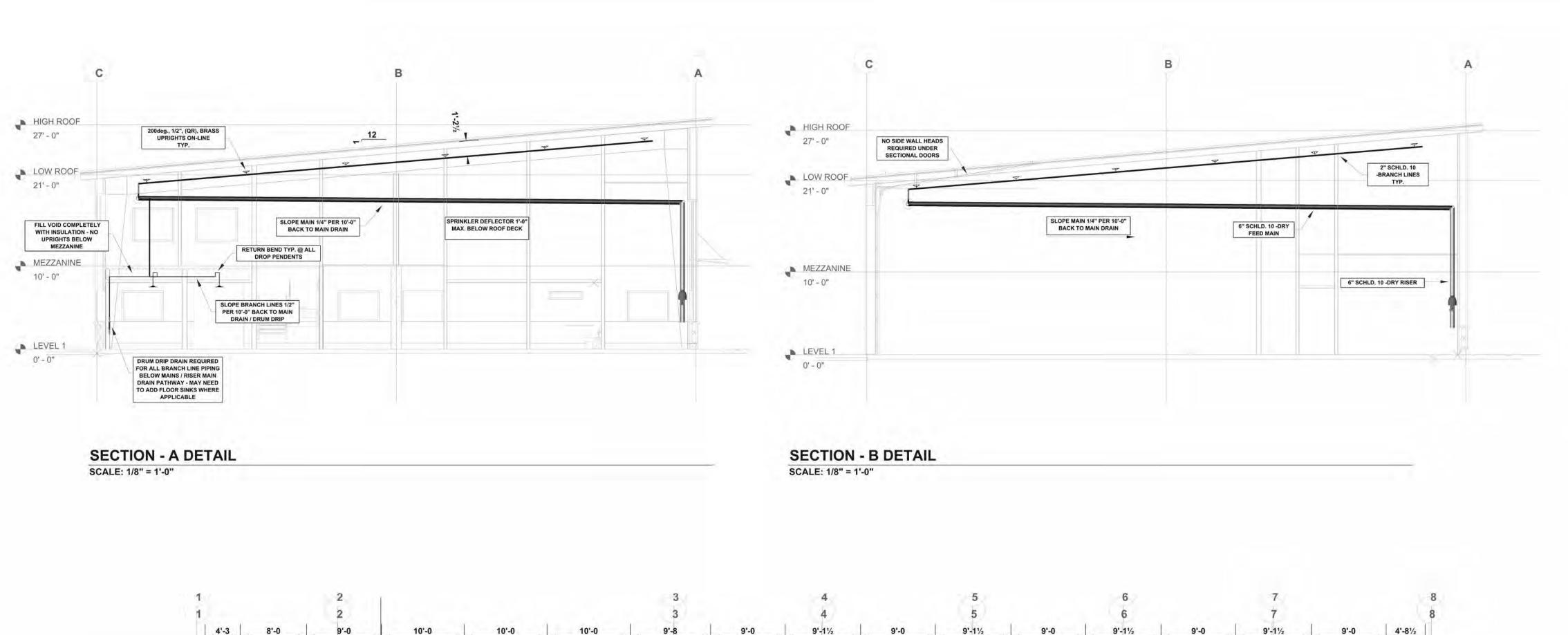
1300 Airport Rd., Mammoth Lake CA,

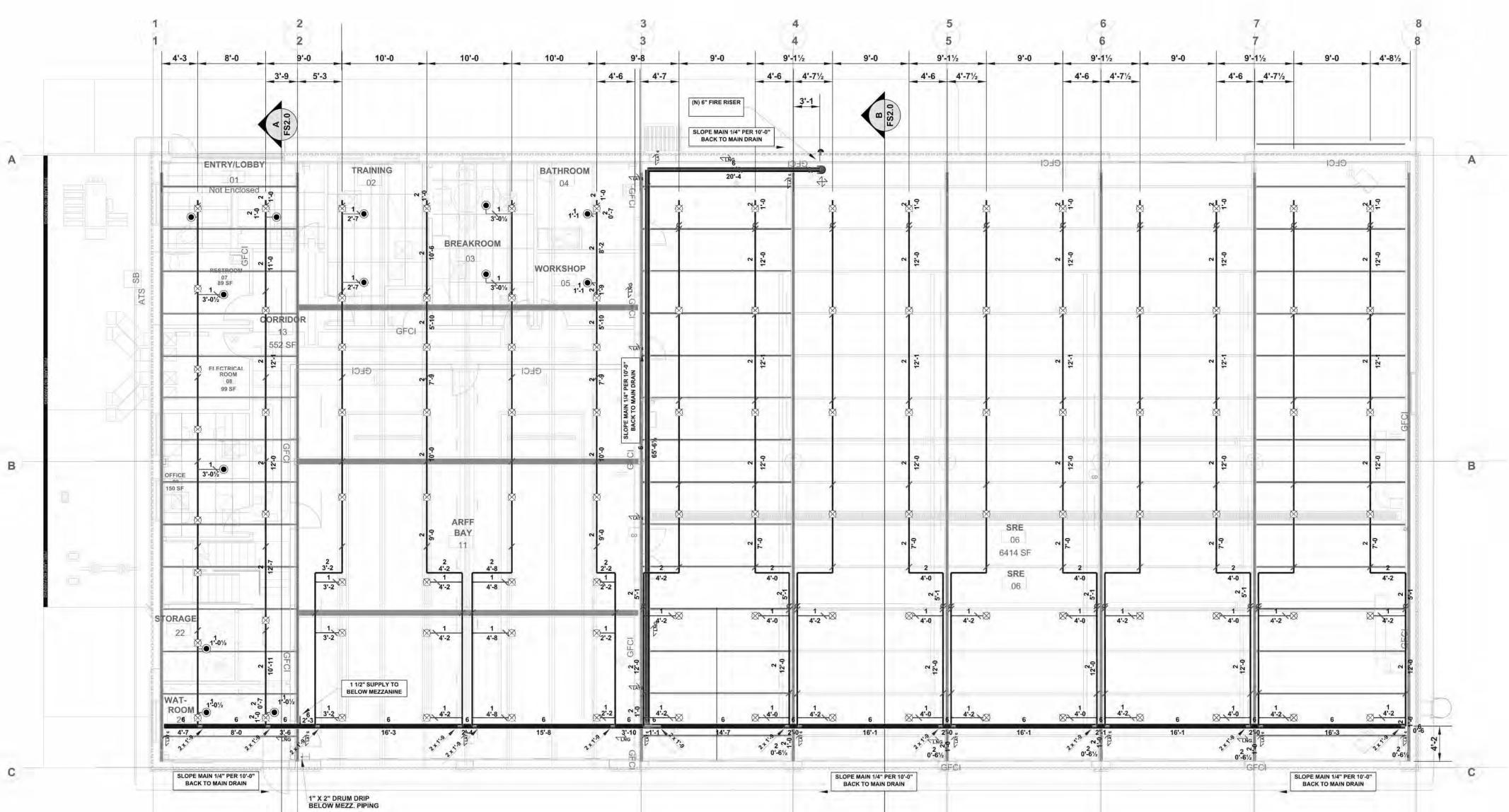
Drawing Title SITE PLAN

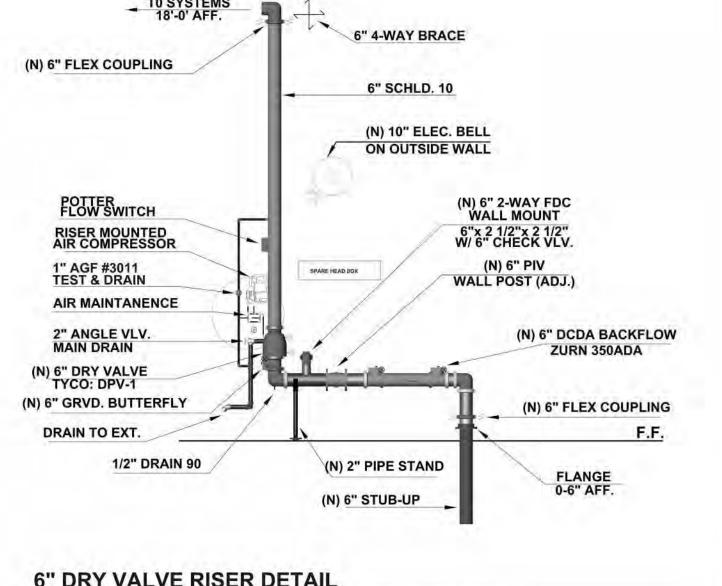
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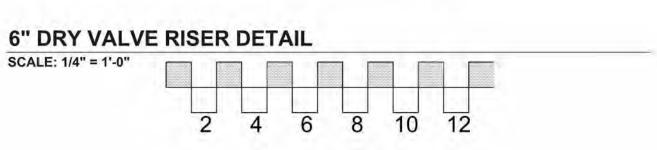
FS1.0

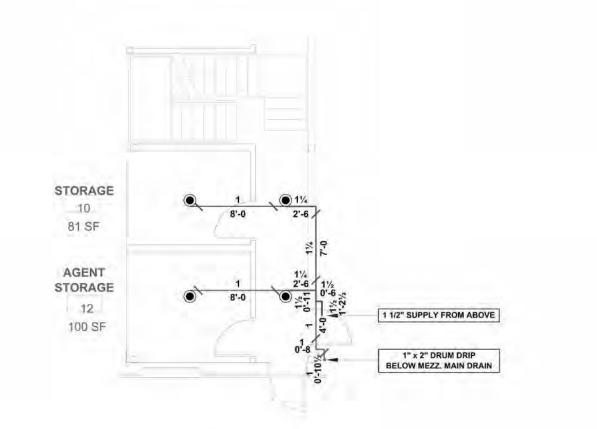
THIS PLAN IS FOR HYDRAULIC REFERENCE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION.



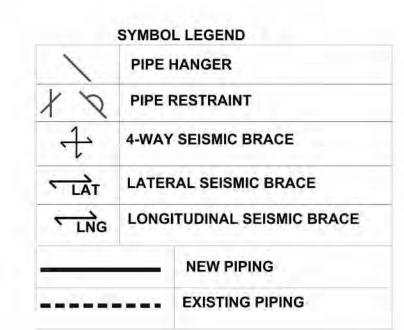








FIRE SPRINKLER PLAN- BELOW MEZZANINE SCALE: 1/8" = 1'-0"



					Spr	inkler	Lege	end			
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
Ø	Тусо	TY-3131	TY-FRB	106	5.6	Upright	1/2	Quick	Brass	200°F	ROOF LEVEL
•	Тусо	TY-3231	TY-FRB	17	5.6	Pendent	1/2	Quick	Chrome	155°F	BELOW CEILING
X	Тусо	TY-3131	TY-FRB	12	5.6	Upright	1/2	Quick	Brass	200°F	NEW/ADD LOWER LEVEL
Ø Ø •	Тусо	TY-3231	TY-FRB	4	5.6	Pendent	1/2	Quick	Brass	200°F	BELOW CEILING
+				Total = 139				-			

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ISSUED FOR

50% CD Review Set

95% CD Review Set

Civil: Landscape: Architecture: NORR AEP Structural: Mechanical: Electrical: Seal(s)

NOIL

SACRAMENTO ENGINEERING CONSULTANTS 10555 Old Placerville Road Sacramento, CA 95827-2503 Phone: (916) 368-4468 Fax: (916) 368-4490 www.saceng.com Job No. 22356

norr_com

Consultants

NORR The Cannery 1631 Alhambra Blvd., Suite 100 Sacramento, CA, US 95816

Project Manager BIM Lead GG

Checked

MAMMOTH YOSEMITE AIRPORT

MAMMOTH ARFF / SRE

1300 Airport Rd., Mammoth Lake CA.

Drawing Title FIRE SPRINKLER PLAN

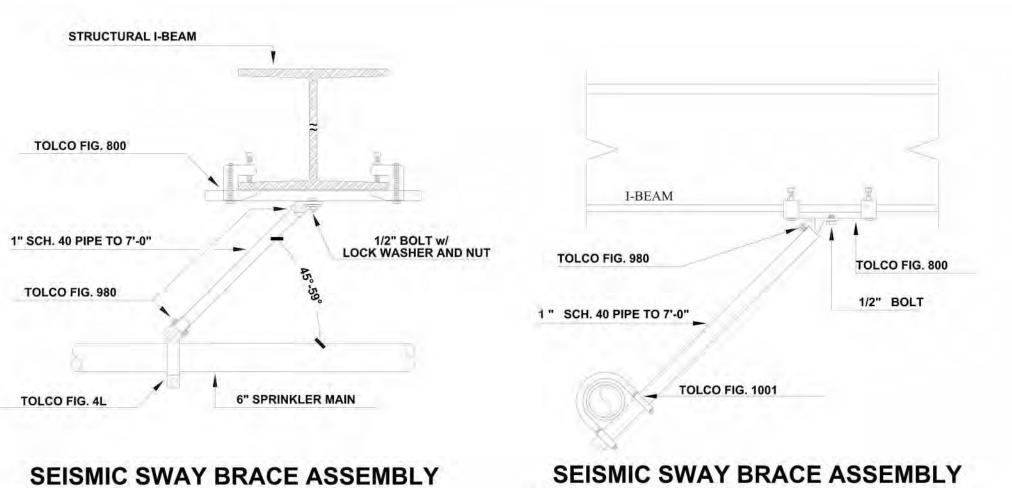
Scale: AS-NOTED IN2024-0022

Drawing No. FS2.0

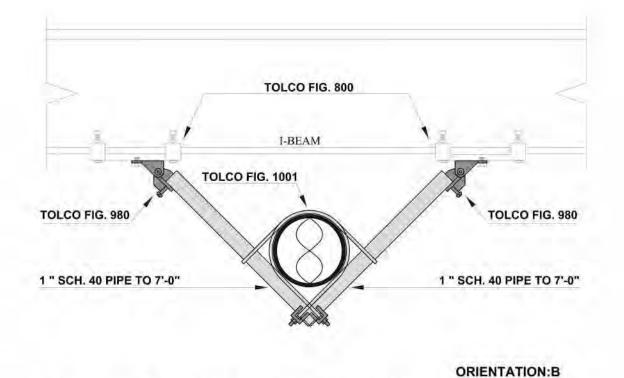
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FIRE SPRINKLER PLAN

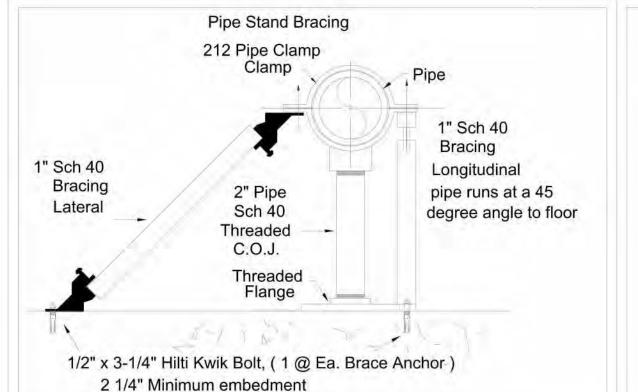
SCALE: 1/8" = 1'-0"



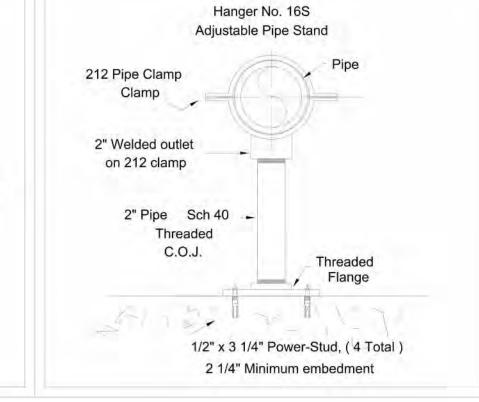
LATERAL

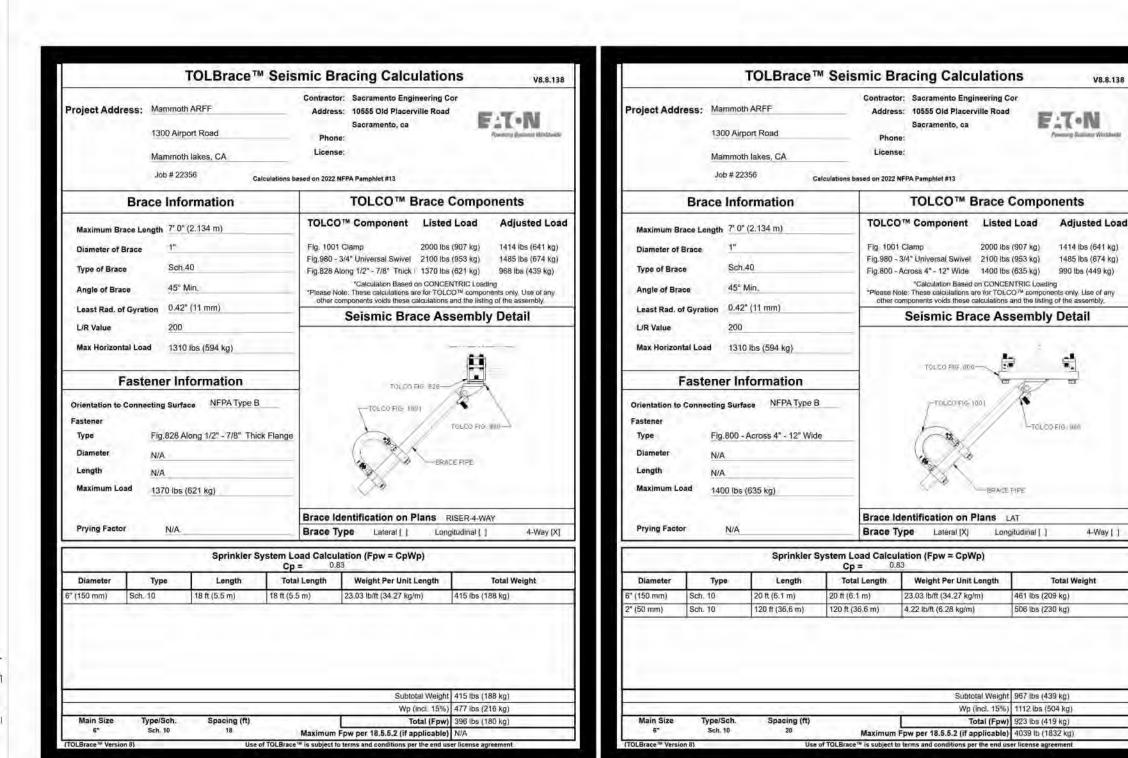


SEISMIC SWAY BRACE ASSEMBLY 4-WAY @ 6" RISER

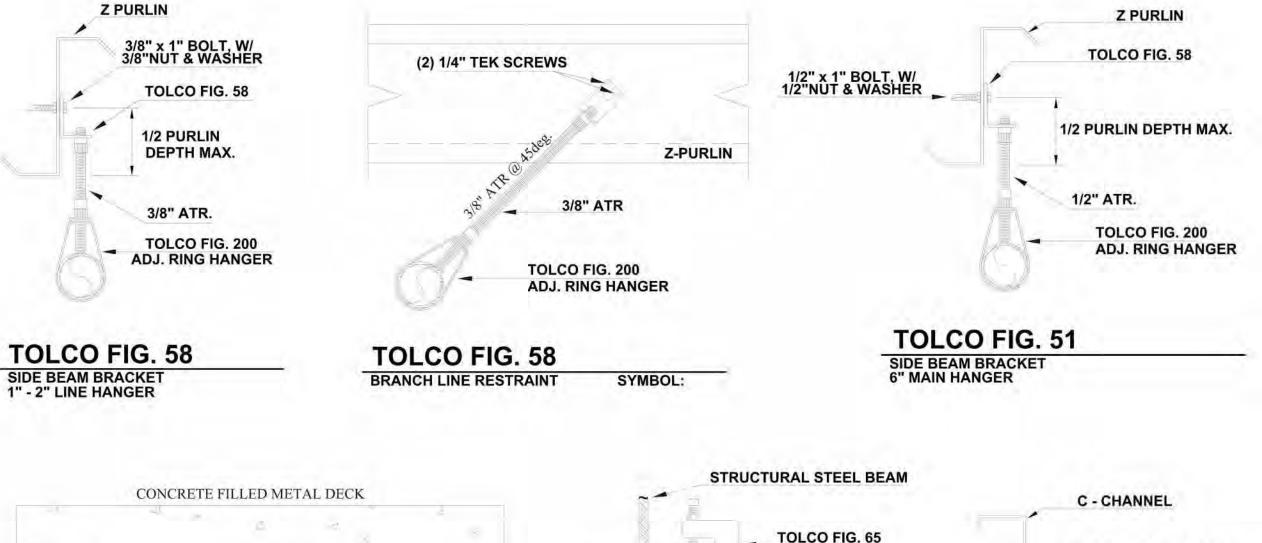


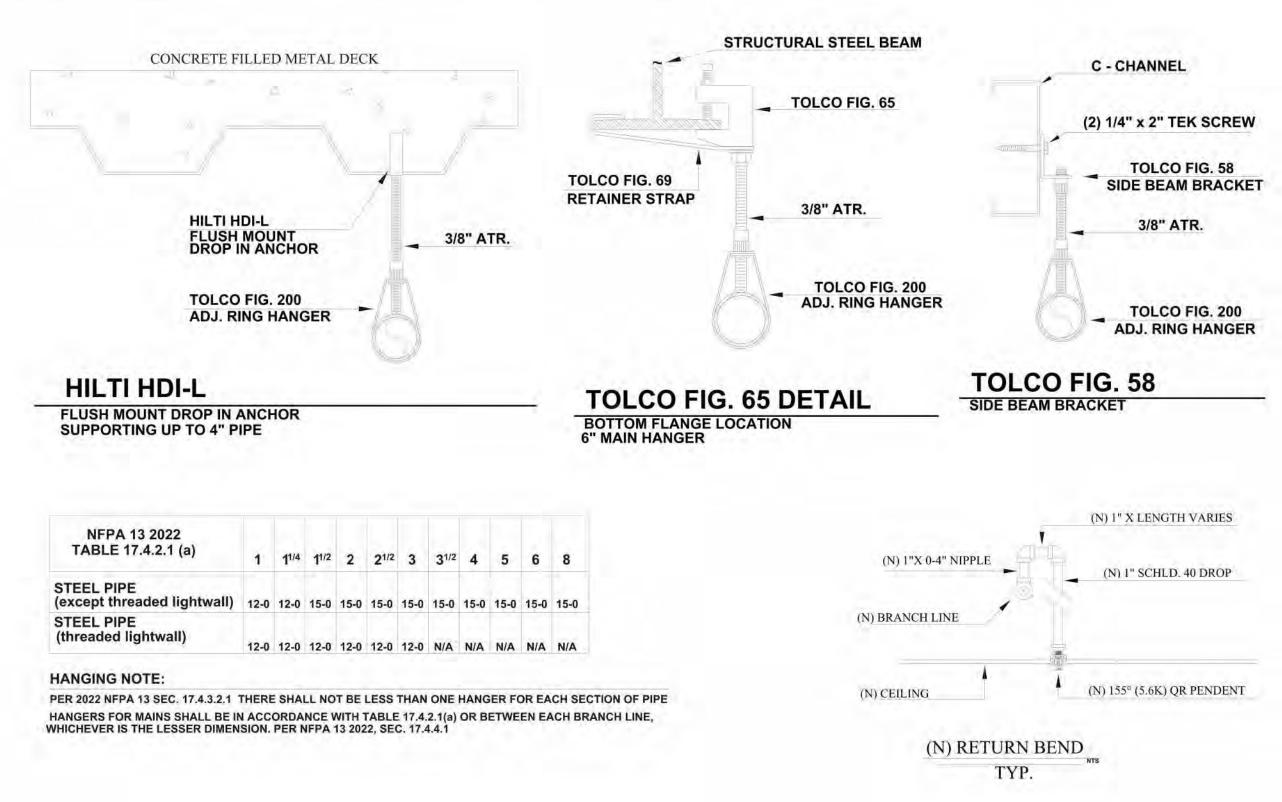
LONGITUDINAL





hartest Address. Meanwh ADEC		or: Sacramento Engin					
roject Address: Mammoth ARFF	Addres	Address: 10555 Old Placerville Road Sacramento, ca					
1300 Airport Road	Phor			Forming Property Worldware			
Mammoth lakes, CA	Licens	se:					
Job # 22356	Calculations based on 2022	NFPA Pamphlet #13					
Brace Information		TOLCO™ Brace Components					
Maximum Brace Length 7' 0" (2.134 m)	TOLCO	O™ Component	Listed Load	Adjusted Load			
Diameter of Brace 1"	Fig. 4L C	Clamp	2000 lbs (907 kg)	1414 lbs (641 kg)			
Type of Brace Sch.40		Control of the Contro	2100 lbs (953 kg) 1400 lbs (635 kg)	1485 lbs (674 kg) 990 lbs (449 kg)			
Angle of Brace 45° Min.	1		CONCENTRIC Load	Ing			
Least Rad. of Gyration 0.42" (11 mm)		components voids these ca	lculations and the listin	ig of the assembly.			
L/R Value 200		Seismic Brace Assembly Detail					
Max Horizontal Load 1310 lbs (594 kg)		TOLOG FIG 1000-					
			10/	- 12			
Fastener Information			1				
Orientation to Connecting Surface NFPA Type	В	BRACE RIPE	11	/			
Fastener		1	TOLCO FIG W	(i			
Type Fig.800 - Across 4" - 12" Wi	ide	16%	100				
and your box is			********* #				
Diameter N/A			TOLCO FIG. 41				
Diameter N/A Length N/A		5	19100418.40				
N/A		: E	- ISLEOTIS AL				
Length N/A	Brace	dentification on Pl					
Length N/A	Brace I	dentification on Pl		4-Way []			
Length N/A Maximum Load 1400 lbs (635 kg) Prying Factor N/A	Total Control	ype Lateral []	ans LNG Longitudinal [X]	4-Way []			
Length N/A Maximum Load 1400 lbs (635 kg) Prying Factor N/A Sprinkler	System Load Calcu Cp = 0.	ype Lateral [] Ilation (Fpw = CpWp 83	ans LNG Longitudinal [X]				
Length N/A Maximum Load 1400 lbs (635 kg) Prying Factor N/A	Brace 1	ype Lateral []	ans LNG Longitudinal [X]	Total Weight			
Length N/A Maximum Load 1400 lbs (635 kg) Prying Factor N/A Sprinkler Diameter Type Length	System Load Calcu Cp = 0. Total Length	Vype Lateral [] Ilation (Fpw = CpWp83 Weight Per Unit L 23.03 lb/ft (34.27 kg/m	Longitudinal [X] Longitudinal [X] poly ength poly poly	Total Weight. 18 kg)			
Length N/A Maximum Load 1400 lbs (635 kg) Prying Factor N/A Sprinkler Diameter Type Length	System Load Calcu Cp = 0. Total Length	Vpe Lateral [] Ilation (Fpw = CpWp83 Weight Per Unit L 23.03 lb/ft (34.27 kg/m	Longitudinal [X] Longitudinal [X] b) ength 921 lbs (4	Total Weight 18 kg) 18 kg) 480 kg)			





FIRE SPRINKLER GENERAL NOTES

1. THIS PROJECT DESIGN IS FOR A NEW STEEL CONSTRUCTED BUILDING FOR A FUTURE OFFICE AND SNOW REMOVAL EQUIPMENT STORAGE.

2. FIRE SPRINKLER SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 (2022) AND THE AUTHORITY HAVING JURISDICTION FORLIGHT HAZARD AND ORDINARY GRP. 2 HAZARD OCCUPANCY. MAXIMUM STORAGE HEIGHT IS 12'-0" TOP OF PRODUCT. DESIGN AREA FOR ORDINARY HAZARD GROUP 2 OCCUPANCY FOR A DRY SYSTEM HAS BEEN INCREASED TO 1950sq./ft.

3. PIPING TYPE SHALL BE SCHLD. 10 FOR GROOVED/WELDED PIPING AND SCHLD. 40 FOR THREADED PIPING. NEW INSTALLED PIPE SHALL BE BLACK, UL LISTED AND APPROVED FOR FIRE SERVICE.

4. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2022) AND MANUF. REQUIREMENTS.

5. SEISMIC BRACING SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 (2022) AND MANUF, REQUIREMENTS.

6. BRANCH LINE RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2022) AND MANUF. REQUIREMENTS.

7. THIS FIRE SPRINKLER SYSTEM IS A DRY PIPE SYSTEM. ALL PIPE SHALL BE SLOPED TOWARDS DRAINS PER NFPA 13.

8. SYSTEMS SHALL BE HYDRO-STATICALLY TESTED @ 200 PSI FOR 2 HOURS - PER NFPA. # 13.

9. 24 HOUR SUPERVISION BY A CENTRAL STATION SHALL BE PROVIDED BY OTHERS.

10. ALL ELECTRICAL, PAINTING OF PIPE, ACCESS PANELS, IF REQUIRED, ARE BY OTHERS.

11. ALL DROP SPRINKLER HEADS SHALL BE INSTALLED WITH A RETURN BEND FROM THE BRANCH LINE. SEE DETAIL SHT. # FS3.0

12. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE CAULKED PER UL GUIDELINES, FIRE CAULKING IS BY OTHERS. DETAILS FOR FIRE STOPPING TO BE SUBMITTED TO THE A.H.J. FOR APPROVAL PRIOR TO INSTALLATION

13. ALL MECHANICAL TEE FITTINGS, (IF USED), SHALL ATTACH RETRIEVABLE DISC ON OR NEAR FITTING FOR INSPECTION.

14. ALL SPRINKLERS SHALL BE NEW, UL LISTED AND APPROVED FOR FIRE SERVICE.

15. LOW POINTS OF THE SYSTEM SHALL BE PROVIDED WITH A MEANS OF DRAINING TRAPPED WATER.

16. ALL AUXILIARY DRAINS SHALL USE A 1" X 2" X 1" DRUM DRIP.

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DATE

03/06/25

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Job No. 22356

Project Manager GG

MAMMOTH YOSEMITE **AIRPORT**

MAMMOTH ARFF / SRE

1300 Airport Rd., Mammoth Lake CA.

Drawing Title FIRE SPRINKLER PLAN

Scale: AS-NOTED IN2024-0022

Drawing No.

2 4 6 8 10 12 14 16 18 20 22 24

FS3.0