

NOTE:
 A. SEE CIVIL DRAWINGS FOR GAS, ELECTRICAL & WATER LOCATIONS.
 B. FOR FURTHER INFORMATION ON SITE IMPROVEMENTS SEE CIVIL DRAWINGS AND ENLARGED PARKING PLAN INDICATED.

1 SITE PLAN
 1" = 20'-0"

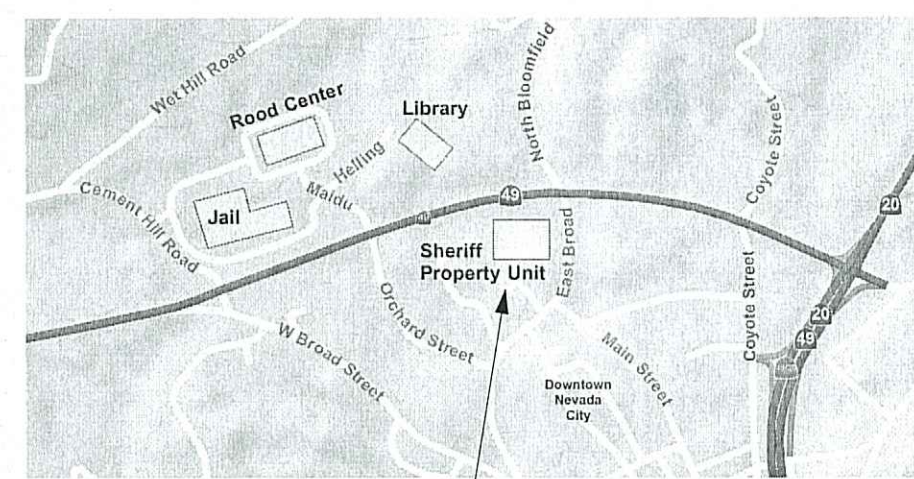
LEGEND

- AGGREGATE FILL
- EARTH
- CONCRETE
- CONCRETE UNIT MASONRY
- BATT INSULATION
- RIGID INSULATION
- STRUCTURAL SHEATHING
- WOOD FRAMING, CONTINUOUS
- WOOD FRAMING, BLOCKING
- GYPSUM BOARD
- WOOD FINISH

SYMBOLS

- SECTION VIEW
- GRID LINE
- WALL TYPE
- SHEET NOTE
- KEY NOTE
- DOOR TAG
- WINDOW TAG
- DETAIL NUMBER
- SHEET NUMBER
- CENTER LINE
- AFF REFERENCE HEIGHT
- ACCESSORY DESIGNATION

PROJECT VICINITY MAP



SHERIFF PROPERTY UNIT
 950 Maidu Way
 Nevada City, California

PROJECT TEAM

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 COUNTY OF NEVADA
 FACILITIES MANAGEMENT
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The following departments require a final inspection and sign off prior to certificate of occupancy:
 X Local Fire Department/District
 X Planning Department
 X Public Works Department
 X Environmental Health Department
 Other: _____
 SEWER BACKFLOW PREVENTER

PROJECT INFORMATION

LOCATION: SHERIFF PROPERTY UNIT
 15076 STATE HIGHWAY 49
 NEVADA CITY, CA 95959

GENERAL SCOPE OF WORK

PROJECT CONSIST OF:
 REMODELING OF EXISTING FINGERPRINT & DNA PROCESSING ROOM, ADA RESTROOM & ADA COMPLIANCE UPGRADES TO THE PUBLIC PARKING & INTERIOR LOBBY AREA.

EXISTING BUILDING INFORMATION

APN: 05-040-03
 TYPE OF CONSTRUCTION: TYPE V-B
 EXISTING BUILDING HEIGHT: 25'
 EXISTING NUMBER OF STORIES: 1

EXISTING BUILDING FLOOR AREA

PROJECT AREA: 2,164 SF
 (E) STORAGE: 3,003 SF
 5,167 SF (TOTAL EXISTING FLOOR AREA)

TENANT IMPROVEMENT

AREA OF IMPROVEMENT:
 OFFICE/RESTROOM: 283 SF
 ENTRY: 139 SF
 DNA/PRINT: 380 SF
 730 SF (TOTAL AREA OF IMPROVEMENT)
 OCCUPANCY GROUP: B
 FIRE SPRINKLERS: N

CODES AND STANDARDS

ALL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA CODE OF REGULATIONS, TITLE-24, CALIFORNIA BUILDING STANDARDS COMMISSION (CBCS) - PARTS 1 THRU PART 12

- A. PART 1 - CALIFORNIA ADMINISTRATIVE CODE
- B. PART 2 VOLUME 1 OF 2 - CALIFORNIA BUILDING CODE (CBC)
- C. PART 2 VOLUME 2 OF 2 - CALIFORNIA BUILDING CODE (CBC)
- D. PART 2.5 - CALIFORNIA RESIDENTIAL CODE (CRC)
- E. PART 3 - CALIFORNIA ELECTRICAL CODE (CEC)
- F. PART 4 - CALIFORNIA MECHANICAL CODE (CMC)
- G. PART 5 - CALIFORNIA PLUMBING CODE (CPC)
- H. PART 6 - CALIFORNIA ENERGY CODE
- I. PART 7 - CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE
- J. PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
- K. PART 9 - CALIFORNIA FIRE CODE
- L. PART 10 - CALIFORNIA CODE FOR BUILDING CONSERVATION
- M. PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE
- N. PART 12 - CALIFORNIA REFERENCED STANDARDS CODE (CALGreen)

ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA CODE OF REGULATIONS (CCR), OFFICE OF ADMINISTRATIVE LAW.

- A. TITLE 19 C.C.R., PUBLIC SAFETY
- B. TITLE 24 C.C.R., BUILDING STANDARDS CODE

ALL WORK SHALL COMPLY WITH THE CURRENT FOLLOWING AUTHORITIES AND THEIR STANDARDS:

- A. BUILDING & SAFETY DIVISION
- B. PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT
- C. PUBLIC WORKS DEPARTMENT
- D. FIRE DEPARTMENT
- E. AMERICANS WITH DISABILITIES ACT - (ADA)

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Plans shall reflect the scope of work of the project. Any changes or deviations must be submitted and reviewed by the Building Department prior to inspection

SUBJECT TO FIELD INSPECTION

REVIEWED FOR COMPLIANCE
 190020
 with County of Nevada Building Department Ordinance & current California codes. The strength of this plan is void if not signed by the Building Department. This plan shall NOT be held to permit or to be an approval for approval of any County Ordinance or State Law.
 County of Nevada Building Department
 [Signature]
 2/15/19
 These plans must be kept on file and accessible to the Inspector at all times.

AGENCIES & UTILITIES

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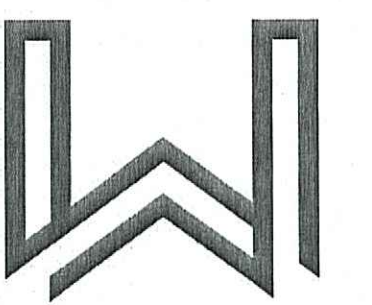
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Sheriff
 Property
 Unit

NC Facilities
 Management

15076 State Highway 49
 Nevada City, California 95959
 APN: 05-040-03

PERMIT DOCUMENTS

Stamp:



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Consultant:

Proj. No.: 2018006

Date: 12/11/2018

Scale: As indicated

Drawn By: JMT

Revisions:

No.	Description	Date
1	Plan review	1/31/2019
	1-24-2019	

Drawing Title:

COVER SHEET +
 SITE PLAN

JOB SET

Drawing Number:

Ao.o

RECEIVED
 FEB 12 2019
 CDA BUILDING

CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)

CONSTRUCTION PROJECTS ARE REQUIRED TO IMPLEMENT THE STORMWATER BEST MANAGEMENT PRACTICES (BMP) ON THIS PAGE, AS THEY APPLY TO YOUR PROJECT, ALL YEAR LONG.

MATERIALS & WASTE MANAGEMENT

NON-HAZARDOUS MATERIALS

- BERM AND COVER STOCKPILES OF SAND, DIRT OR OTHER CONSTRUCTION MATERIAL WITH TARPS WHEN RAIN IS FORECAST OR IF NOT ACTIVELY BEING USED WITHIN 14 DAYS.

- USE (BUT DON'T OVERUSE) RECLAIMED WATER FOR DUST CONTROL.

HAZARDOUS MATERIALS

- LABEL ALL HAZARDOUS MATERIALS AND HAZARDOUS WASTES (SUCH AS PESTICIDES, PAINTS, THINNERS, SOLVENTS, FUEL, OIL, AND ANTIFREEZE) IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS.

- STORE HAZARDOUS MATERIALS AND WASTES IN WATER TIGHT CONTAINERS, STORE IN APPROPRIATE SECONDARY CONTAINMENT, AND COVER THEM AT THE END OF EVERY WORK DAY OR DURING WET WEATHER OR WHEN RAIN IS FORECAST.

- FOLLOW MANUFACTURER'S APPLICATION INSTRUCTIONS FOR HAZARDOUS MATERIALS AND BE CAREFUL, NOT TO USE MORE THAN NECESSARY, DO NOT APPLY CHEMICALS OUTDOORS WHEN RAIN IS FORECAST WITHIN 24 HOURS.

- ARRANGE FOR APPROPRIATE DISPOSAL OF ALL HAZARDOUS WASTES.

WASTE MANAGEMENT

- COVER WASTE DISPOSAL CONTAINERS SECURELY WITH TARPS AT THE END OF EVERY WORK DAY AND DURING WET WEATHER.

- CHECK WASTE DISPOSAL CONTAINERS FREQUENTLY FOR LEAKS AND TO MAKE SURE THEY ARE NOT OVER FILLED, NEVER HOSE DOWN A DUMPSTER ON THE CONSTRUCTION SITE.

- CLEAN OR REPLACE PORTABLE TOILETS, AND INSPECT THEM FREQUENTLY FOR LEAKS AND SPILLS.

- DISPOSE OF ALL WASTES AND DEBRIS PROPERLY, RECYCLE MATERIALS AND WASTES THAT CAN BE RECYCLED (SUCH AS ASPHALT, CONCRETE, AGGREGATE BASE MATERIALS, WOOD, GYP BOARD, PIPE, ETC.)

- DISPOSE OF LIQUID RESIDUES FROM PAINTS, THINNERS, SOLVENTS, GLUES, AND CLEANING FLUIDS AS HAZARDOUS WASTE.

CONSTRUCTION ENTRANCES AND PERIMETER

- ESTABLISH AND MAINTAIN EFFECTIVE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM SITE AND TRACKING OFF SITE.

- SWEEP OR VACUUM ANY STREET TRACKING IMMEDIATELY AND SECURE SEDIMENT SOURCE TO PREVENT FURTHER TRACKING, NEVER HOSE DOWN STREETS TO CLEAN UP TRACKING.

EQUIPMENT MANAGEMENT & SPILL CONTROL

MAINTENANCE AND PARKING

- DESIGNATE AN AREA, FITTED WITH APPROPRIATE BMPs, FOR VEHICLE AND EQUIPMENT PARKING AND STORAGE.

- PERFORM MAJOR MAINTENANCE, REPAIR JOBS, AND VEHICLE AND EQUIPMENT WASHING OFF SITE.

- IF REFUELING OR VEHICLE MAINTENANCE MUST BE DONE ON SITE, WORK IN A BERMED AREA AWAY FROM STORM DRAINS AND OVER A DRIP PAN OR DROP CLOTHS BIG ENOUGH TO COLLECT FLUIDS, RECYCLE OR DISPOSE OF FLUIDS AS HAZARDOUS WASTE.

- IF VEHICLE OR EQUIPMENT CLEANING MUST BE DONE ON SITE, CLEAN WITH WATER ONLY IN A BERMED AREA THAT WILL NOT ALLOW RINSE WATER TO RUN INTO GUTTERS, STREETS, STORM DRAINS, OR SURFACE WATERS.

- DO NOT CLEAN VEHICLE OR EQUIPMENT ON SITE USING SOAPS, SOLVENTS, DEGREASERS, OR STEAM CLEANING EQUIPMENT.

SPILL PREVENTION AND CONTROL

- KEEP SPILL CLEANUP MATERIALS (E.G., RAGS, ABSORBENTS AND CAT LITTER) AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.

- INSPECT VEHICLES AND EQUIPMENT FREQUENTLY FOR AND REPAIR LEAKS PROMPTLY, USE DRIP PANS TO CATCH LEAKS UNTIL REPAIRS ARE MADE.

- CLEAN UP SPILLS OR LEAKS IMMEDIATELY AND DISPOSE OF CLEANUP MATERIALS PROPERLY.

- DO NOT HOSE DOWN SURFACES WHERE FLUIDS HAVE SPILLED, USE DRY CLEANUP METHODS (ABSORBENT MATERIALS, CAT LITTER, AND/OR RAGS).

- SWEEP UP SPILLED DRY MATERIALS IMMEDIATELY, DO NOT TRY TO WASH THEM AWAY WITH WATER, OR BURY THEM.

- CLEAN UP SPILLS ON DIRT AREAS BY DIGGING UP AND PROPERLY DISPOSING OF CONTAMINATED SOIL.

- REPORT SIGNIFICANT SPILLS IMMEDIATELY, YOU ARE REQUIRED BY LAW TO REPORT ALL SIGNIFICANT RELEASES OF HAZARDOUS MATERIALS, INCLUDING OIL TO REPORT A SPILL:

- DIAL 911 OR YOUR LOCAL EMERGENCY RESPONSE NUMBER
- CALL THE GOVERNOR'S OFFICE OF EMERGENCY SERVICES WARNING CENTER, (800) 852-7550 (24 HOURS).

LANDSCAPING

- PROTECT STOCKPILED LANDSCAPING MATERIALS FROM WIND AND RAIN BY STORING THEM UNDER TARPS ALL YEAR-ROUND.

- STACK BAGGED MATERIAL ON PALLETS AND UNDER COVER.

- DISCONTINUE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECAST RAIN EVENT OR DURING WET WEATHER.

EARTHMOVING

- SCHEDULE GRADING AND EXCAVATION WORK DURING DRY WEATHER.

- STABILIZE ALL DENUDDED AREAS, INSTALL AND MAINTAIN TEMPORARY EROSION CONTROLS (SUCH AS EROSION CONTROL FABRIC OR BONDED FIBER MATRIX) UNTIL VEGETATION IS ESTABLISHED.

- REMOVE EXISTING VEGETATION ONLY WHEN ABSOLUTELY NECESSARY, AND SEED OR PLANT VEGETATION FOR EROSION CONTROL ON SLOPES OR WHERE CONSTRUCTION IS NOT IMMEDIATELY PLANNED.

- PREVENT SEDIMENT FROM MIGRATING OFFSITE AND PROTECT STORM DRAIN INLETS, GUTTERS, DITCHES, AND DRAINAGE COURSES BY INSTALLING AND MAINTAINING APPROPRIATE BMPs, SUCH AS FIBER ROLLS, SILT FENCES, SEDIMENT BASINS, GRAVEL BAGS, BERMS, ETC.

- KEEP EXCAVATED SOIL ON SITE AND TRANSFER IT TO DUMP TRUCKS ON SITE, NOT IN THE STREETS.

CONTAMINATED SOILS

- IF ANY OF THE FOLLOWING CONDITIONS ARE OBSERVED, TEST FOR CONTAMINATION AND CONTACT THE REGIONAL WATER QUALITY CONTROL BOARD:

- UNUSUAL SOIL CONDITIONS, DISCOLORATION, OR ODOR.
- ABANDONED UNDERGROUND TANKS.
- ABANDONED WELLS.
- BURIED BARRELS, DEBRIS, OR TRASH.

PAVING/ASPHALT WORK

- AVOID PAVING AND SEAL COATING IN WET WEATHER OR WHEN RAIN IS FORECAST, TO PREVENT MATERIALS THAT HAVE NOT CURED

- COVER STORM DRAIN INLETS AND MANHOLES WHEN APPLYING SEAL COAT, TACK COAT, SLURRY SEAL, FOG SEAL, ETC.

- COLLECT AND RECYCLE OR APPROPRIATELY DISPOSE OF EXCESS ABRASIVE GRAVEL OR SAND, DO NOT SWEEP OR WASH IT INTO GUTTERS.

- DO NOT USE WATER TO WASH DOWN FRESH ASPHALT CONCRETE PAVEMENT.

SAWCUTTING & ASPHALT/CONCRETE REMOVAL

- PROTECT NEARBY STORM DRAIN INLETS WHEN SAW CUTTING, USE FIBER FABRIC, CATCH BASIN INLET FILTERS, OR GRAVEL BAGS TO KEEP SLURRY OUT OF THE STORM DRAIN SYSTEM.

- SHOVEL, ABSORB, OR VACUUM SAW-CUT SLURRY AND DISPOSE OF ALL WASTE AS SOON AS YOU ARE FINISHED IN ONE LOCATION OR AT THE END OF EACH WORK DAY (WHICHEVER IS SOONER).

- IF SAWCUT SLURRY ENTERS A CATCH BASIN, CLEAN IT UP IMMEDIATELY.

CONCRETE, GROUT & MORTAR APPLICATION

- STORE CONCRETE, GROUT, AND MORTAR AWAY FROM STORM DRAINS OR WATERWAYS, AND ON PALLETS UNDER COVER TO PROTECT THEM FROM RAIN, RUNOFF, AND WIND.

- WASH OUT CONCRETE EQUIPMENT/TRUCKS OFFSITE OR IN A DESIGNATED WASHOUT AREA, WHERE THE WATER WILL FLOW INTO A TEMPORARY WASTE PIT, AND IN A MANNER THAT WILL PREVENT LEACHING INTO THE UNDERLYING SOIL OR ONTO SURROUNDING AREAS, LET CONCRETE HARDEN AND DISPOSE OF AS GARBAGE.

- WHEN WASHING EXPOSED AGGREGATE, PREVENT WASHWATER FROM ENTERING STORM DRAINS, BLOCK ANY INLETS AND VACUUM GUTTERS, HOSE WASHWATER ONTO DIRT AREAS, OR DRAIN ONTO A BERMED SURFACE TO BE PUMPED AND DISPOSED OF PROPERLY.

PAINT CLEAN-UP & REMOVAL

- NEVER CLEAN BRUSHES OR RINSE PAINT CONTAINERS INTO A STREET, GUTTER, STORM DRAIN, OR STREAM.

- FOR WATER-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE, AND RINSE INTO A DRAIN THAT GOES TO THE SANITARY SEWER, NEVER POUR PAINT DOWN A STORM DRAIN.

- FOR OIL-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE AND CLEAN WITH THINNER OR SOLVENT IN A PROPER CONTAINER, FILTER AND REUSE THINNERS AND SOLVENTS, DISPOSE OF EXCESS LIQUIDS AS HAZARDOUS WASTE.

- PAINT CHIPS AND DUST FROM NON-HAZARDOUS DRY STRIPPING AND SAND BLASTING MAY BE SWEEPED UP OR COLLECTED IN PLASTIC DROP CLOTHS AND DISPOSED OF AS TRASH.

- CHEMICAL PAINT STRIPPING RESIDUE AND CHIPS AND DUST FROM MARINE PAINTS OR PAINTS CONTAINING LEAD, MERCURY, OR TRIBUTYL TIN MUST BE DISPOSED OF AS HAZARDOUS WASTE, LEAD BASED PAINT REMOVAL REQUIRES A STATE-CERTIFIED CONTRACTOR.

DEWATERING

- DISCHARGES OF GROUNDWATER OR CAPTURED RUNOFF FROM DEWATERING OPERATIONS MUST BE PROPERLY MANAGED AND DISPOSED, WHEN POSSIBLE SEND DEWATERING DISCHARGE TO LANDSCAPED AREA OR SANITARY SEWER, IF DISCHARGING TO THE SANITARY SEWER CALL YOUR LOCAL WASTEWATER TREATMENT PLANT.

- DIVERT RUN-ON WATER FROM OFFSITE AWAY FROM ALL DISTURBED AREAS.

- WHEN DEWATERING, NOTIFY AND OBTAIN APPROVAL FROM THE LOCAL MUNICIPALITY BEFORE DISCHARGING WATER TO A STREET GUTTER OR STORM DRAIN, FILTRATION OR DIVERSION THROUGH A BASIN, TANK, OR SEDIMENT TRAP MAY BE REQUIRED

- IN AREAS OF KNOWN OR SUSPECTED CONTAMINATION, CALL YOUR LOCAL AGENCY TO DETERMINE WHETHER THE GROUND WATER MUST BE TESTED, PUMPED GROUNDWATER MAY NEED TO BE COLLECTED AND HAULED OFF-SITE FOR TREATMENT AND PROPER DISPOSAL.

FIRE PROTECTION NOTES

- PORTABLE FIRE EXTINGUISHERS
 - PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN OCCUPANCIES AND LOCATIONS AS INDICATED ON DRAWINGS, AS HEREIN INDICATED AND SET FORTH IN THE CODE AND AS REQUIRED BY THE FIRE DEPARTMENT. THE MAXIMUM TRAVEL DISTANCE TO THE FIRE EXTINGUISHER SHALL NOT EXCEED 75 FEET ALONG AN UNOBSTRUCTED PATH OF TRAVEL, CFC TABLE 906.3(1). ALL PORTABLE FIRE EXTINGUISHERS SHALL HAVE A SERVICE TAG AFFIXED TO THEM SHOWING THAT THE EXTINGUISHER HAS BEEN SERVICED BY A CALIFORNIA STATE LICENSED FIRE EXTINGUISHER CONCERN. ALL FIRE EXTINGUISHERS SHALL BE ATTACHED TO A BRACKET OR WITHIN AN APPROVED CABINET, REFER TO DRAWINGS AND SPECIFICATIONS. MAXIMUM DISTANCE FROM THE FLOOR SHALL NOT EXCEED THE REQUIREMENTS OF CFC SECTION 908.9 AND ADA.
 - REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PORTABLE FIRE EXTINGUISHERS.
- APPROVALS
 - CONTRACTOR SHALL SUBMIT PLANS AND CALCULATIONS TO THE FIRE DEPARTMENT FOR PLAN CHECK REVIEW AND APPROVALS.

MECHANICAL AND PLUMBING

- MECHANICAL AND PLUMBING SHALL COMPLY WITH THE MOST CURRENT ADOPTED EDITION ON THE CALIFORNIA MECHANICAL AND PLUMBING CODES AT TIME OF PERMIT ISSUANCE.
- FIRE SMOKE DAMPERS SHALL BE PROVIDED FOR ALL DUCTS AND OPENINGS WHICH PENETRATE FIRE RATED WALLS OR FIRE RATED CEILINGS.
- TOILET ROOMS SHALL BE EQUIPPED WITH A VENTILATION SYSTEM.
- ACCESS PANELS SHALL BE PROVIDED WHERE REQUIRED FOR ACCESS TO ALL DUCTWORK, FIRE DAMPERS, ETC., REFER ALSO TO SPECIFICATIONS.
- LOCATION OF ALL MECHANICAL ROOF OPENINGS SHALL BE DETERMINED AND VERIFIED BY THE MECHANICAL AND GENERAL CONTRACTOR.
- AN OUTSIDE LABELED GAS SHUT-OFF VALVE SHALL BE PROVIDED AS REQUIRED. ELECTROLYSIS PROTECTION SHALL BE PROVIDED BETWEEN ALL DISSIMILAR METALS WHEREVER THE TWO ARE IN CONTACT.
- ALL CONTINUOUSLY CIRCULATING DOMESTIC HEATING, HOT WATER AND CHILLED WATER PIPING SHALL BE INSULATED.

100 FT VEGETATION MANAGEMENT CLEARANCE REQUIREMENTS:

- PROJECT TO BE COMPLIANT WITH CALIFORNIA PUBLIC RESOURCES CODE 4291 TWO ZONES MAKE UP THE REQUIRED 100 FEET OF DEFENSIBLE SPACE.

- ZONE 1: 30 FEET OF LEAN, CLEAN & GREEN:**
- REMOVE ALL DEAD PLANTS, GRASS AND WEEDS.
 - REMOVE DEAD OR DRY LEAVES AND PINE NEEDLES FROM YOUR YARD, ROOF AND RAIN GUTTERS.
 - KEEP TREE BRANCHES 10 FEET AWAY FROM YOUR CHIMNEY AND OTHER TREES.

- ZONE 2: 30-100 FEET OF REDUCED FUEL:**
- CUT OR MOW ANNUAL GRASS DOWN TO A MAXIMUM HEIGHT OF 4 INCHES.
 - CREATE HORIZONTAL SPACING BETWEEN SHRUBS AND TREES.
 - CREATE VERTICAL SPACING BETWEEN GRASS, SHRUBS AND TREES, USE EQUIPMENT PROPERLY TO KEEP FROM SPARKING A WILDFIRE.
 - MOW BEFORE 10 A.M., AND NEVER ON A HOT OR WINDY DAY, STRING TRIMMERS ARE A SAFER OPTION (VS. LAWNMOWERS) FOR CLEARING VEGETATION.

CONTRACTOR RESPONSIBILITIES

- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND PRIOR TO PROCEEDING WITH THE WORK IN UNCERTAINTY.
- THE CONTRACTOR SHALL VERIFY CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN UNCERTAINTY.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO ANY EXCAVATING.
- THE CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT AND/OR LOCATIONS OF EXISTING UTILITIES ABOVE OR BELOW GRADE WITH THE RESPECTIVE UTILITY COMPANIES.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN STREET RIGHT-OF-WAYS ACCORDING TO THE APPROVED STANDARD PLANS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ALL WORK IN CITY ROAD.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES, AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURES AND COMPONENTS, ADJACENT SOILS AND STRUCTURES, UTILITIES AND RIGHT-OF-WAYS MAY BE SUBJECT DURING CONSTRUCTIONS.
- FLOOR AND WALL OPENINGS, SLEEVES, VARIATIONS IN THE STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND/OR CIVIL REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.

TYPICAL NOTES

- SIMILAR - MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTES, VERIFY DIMENSIONS AND/OR ORIENTATIONS ON PLANS AND/OR ELEVATIONS.
- DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT IN WRITING.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY CONFLICTS HEREIN, EITHER APPARENT OR OBVIOUS, PRIOR TO START OF WORK ON THAT ITEM OR BEAR THE RESPONSIBILITY OF CORRECTING SUCH WORK AS DIRECTED BY THE ARCHITECT AND AT NO ADDITIONAL COST AND NO TIME EXTENSION OF THE PROJECT.
- UNDERCUT ALL DOORS TO CLEAR TOP OF FLOOR FINISH AND/OR THRESHOLD 26 INCHES MAXIMUM AND IN COMPLIANCE WITH RATED DOOR/FRAME GUIDELINES.
- PREPARE DOORS FOR HARDWARE SPECIFIED, TEST AND ADJUST DOORS FOR SMOOTH, QUIET OPERATION BEFORE FINAL INSPECTIONS TO CONFIRM MAXIMUM PRESSURE TO OPEN DOOR IS NOT EXCEEDED.
- USE WATER RESISTANT / GLASS FIBER FACED GYPSUM WALLBOARD ON ALL WALL FACES WHICH ARE EXPOSED TO WATER OR MOISTURE AS WELL AS THOSE USED FOR JANITOR AND TOILET WALLS, COORDINATE WITH SPECIFICATIONS.
- ALL EXTERIOR WALLS SHALL BE INSULATED AND IN COMPLIANCE WITH SPECIFICATIONS AND PLAN DOCUMENTS AND SHALL NOT FALL BELOW MINIMUM TITLE 24 REQUIREMENTS WHERE NOT INDICATED.
- SEE DRAWINGS AND DETAILS FOR TYPICAL NOTES.
- DEPRESS FLOOR SLABS AS REQUIRED FOR FLOOR CLOSURES.
- PROVIDE ADEQUATE BLOCKING AND ANCHORAGE FOR CEILING AND WALL MOUNTED EQUIPMENT - I.E. WATER COOLERS, FIRE EXTINGUISHER CABINETS, HANDRAILS AND GUARDRAILS, ETC.
- INTERIOR PARTITION FINISHES TERMINATE 6 INCHES ABOVE THE HIGHEST ADJACENT CEILING UNLESS NOTED OTHERWISE.
- ALL CEILING CONSTRUCTIONS SHALL COMPLY WITH CBC CHAPTER 25 (MAXIMUM 12" JOIST SPACING AT CEILINGS) AND AS INDICATED IN DRAWINGS.
- ALL OPENINGS INTO 1 HOUR STAIR ENCLOSURES SHALL BE PROTECTED BY LABELED CLASS B FIRE ASSEMBLY - 60 MINUTE RATING.

BUILDING SECURITY STANDARDS

- ALL WORK SHALL COMPLY WITH THE FOLLOWING BUILDING SECURITY STANDARDS:
 - GENERAL REQUIREMENTS
 - SECURITY AND LOCKING DEVICES SHALL NOT CREATE HAZARDS TO LIFE BY OBSTRUCTING:
 - EXITWAYS OR MEANS OF EGRESS.
 - EXIT DOORS EQUIPPED WITH PANIC HARDWARE.
 - ASSEMBLIES AND SECURITY HARDWARE INSTALLED SHALL BE LABELED AND CERTIFIED AS MEETING UL (UNDERWRITERS LABORATORY) STANDARDS, OR OTHER APPROVED PERFORMANCE TESTING CRITERIA AS APPROVED BY AGENCY HAVING JURISDICTION.
 - REQUIRED AREA LIGHTING AND ADDRESS IDENTIFICATION SHALL BE INSTALLED BEFORE FINAL INSPECTION IS CALLED FOR.
 - ILLUMINATION PER CODE REQUIREMENTS SHALL BE PROVIDED ADJACENT TO ALL EXTERIOR DOORS DURING ALL HOURS OF DARKNESS TO PROVIDE MINIMUM REQUIRED FOOT CANDLE LEVEL AT PAVING.
 - WINDOW PROVISIONS:
 - GLAZING ON EXTERIOR DOORS OR WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF A DOOR IN THE CLOSED POSITION SHALL BE TEMPERED SAFETY GLAZING.
 - GLAZING AND GLAZED ASSEMBLIES FOR ACCESSIBLE OPENINGS SHALL BE CERTIFIED AS MEETING TEST PROVISIONS OF UL (UNDERWRITERS LABORATORY)
 - ALL GLAZING INSTALLED IN A HAZARDOUS LOCATION SHALL BE TEMPERED SAFETY GLASS.
 - GLAZING AND INSTALLATION SHALL BE IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE INCLUDING CHAPTER 24.
 - GLAZING SHALL BE TEMPERED SAFETY GLAZING WHERE INDICATED.

ABBREVIATIONS

ACST	ACOUSTICAL	FD	FLOOR DRAIN	MIN	MINIMUM	REF	REFER (ENCE), REFERERIGERATOR
AC	AIR CONDITIONER	FDN	FOUNDATION	MISC	MISCELLANEOUS	REINF	REINFORCE (D) (ING)
ACC	ACCESSIBLE	FE	FIRE EXTINGUISHER	MO	MASONRY OPENING	REQD	REQUIRED
ADJ	ADJUSTABLE	FIN	FINISH	MR	MOISTURE RESISTANT	REV	REVISION (S), REVISED
AFF	ABOVE FINISH FLOOR	FL	FLASHING	MTL	METAL	RFG	ROOFING
ALT	ALTERNATE	FLR	FLOOR	MULL	MULLION	RH	RIGHT HAND
ALUM	ALUMINUM	FOC	FACE OF CONCRETE	NA	NOT APPLICABLE	RM	ROOM
APPROX	APPROXIMATE	FOM	FACE OF MASONRY	NIC	NOT IN CONTRACT	RO	ROUGH OPENING
BD	BOARD	FOS	FACE OF STUDS	NO	NUMBER	ROW	RIGHT OF WAY
BITUM	BITUMINOUS	FOSG	FACE OF SHEATHING	NOM	NOMINAL	S	SOUTH
BLDG	BUILDING	FPL	FIREPLACE	NR	NOT RATED	SCHD	SCHEDULE
BM	BEAM	FRMG	FRAMING	NTS	NOT TO SCALE	SD	STORM DRAIN
BO	BOTTOM OF	FT	FOOT, FEET	O	OVER	SF	SQUARE FOOT (FEET)
CAB	CABINET	FTG	FOOTING	OC	ON CENTER	SIM	SIMILAR
CJ	CONTROL JOINT	FURN	FURNITURE	OD	OUTSIDE DIAMETER	SIM	SIMILAR
CL	CENTER LINE	GA	GAGE	OF	OUTSIDE FACE	SPK	SLAB ON GRADE
CLG	CEILING	GALV	GALVANIZED, GALVANIC	OH	OVERHANG	SPCC	SPECIFICATION
CLR	CLEAR	GB	GYPSUM BOARD	OPH	OPPOSITE HAND	SPKLR	SPRINKLER
CMU	CONCRETE MASONRY UNIT	GEN	GENERAL	OPN	OPENING	SS	SANITARY SEWER
COL	COLUMN	GL	GLASS	OPP	OPPOSITE	SST	STAINLESS STEEL
CONC	CONCRETE	GLULAM	GLUED LAMINATED WOOD	OVHD	OVERHEAD	ST	STREET
CPT	CARPET	GWB	GYPSUM WALL BOARD	PAT	PATTERN	STC	SOUND TRANSMISSION CLASS
CSMT	CASEMENT	GYP	GYPSUM	PBD	PARTICLE BOARD	STD	STANDARD
CT	CERAMIC TILE	HDR	HEADER	PCP	PORTLAND CEMENT PLASTER	STOR	STORAGE
DEMO	DEMOLISH, DEMOLITION	HDW	HARDWOODS	PREFAB	PRECAST	STRUCT	STRUCTURE (AL)
DIA	DIAMETER	HM	HOLLOW METAL	PERF	PERFORATED	T&G	TONGUE AND GROOVE
DIM	DIMENSION	HORIZ	HORIZONTAL	PERIM	PERIMETER	TEL	TELEPHONE
DN	DOWN	HT	HEIGHT	PERM	PERMANENT	TEMP	TEMPORARY
DS	DOWNSPOUT	HTR	HEATER	PERP	PERPENDICULAR	THK	THICK (NESS)
DW	DRAWING	ID	INSIDE DIAMETER	PH	PHASE	THRU	THROUGH
DWR	DRAINWASH	INSUL	INSULATION	PL	PROPERTY LINE	TOB	TOP OF BEAM
E	EAST	INT	INTERIOR	PLAM	PLASTIC LAMINATE	TOC	TOP OF CURB
EA	EACH	L	LONG	PLWD	PLYWOOD	TOS	TOP OF SLAB
EJ	EXPANSION JOINT	LAM	LAMINATE(D)	PRCST	PRECAST	TOW	TOP OF WALL
ELEC	ELECTRIC (AL)	LAV	LAVATORY	PREFAB	PRECAST	TYP	TYPICAL
ELEV	ELEVATION	LB	POUND	PRELIM	PRELIMINARY	UNFIN	UNFINISH (ED)
EQ	EQUAL	LH	LEFT HAND	PROP	PROPERTY	UNO	UNLESS NOTED OTHERWISE
EQUIP	EQUIPMENT	LNDSCP	LANDSCAPE	PT	PRESSURE TREATED	UTIL	UTILITY
EST	ESTIMATE (D)	MAS	MASONRY	PVG	PAVING	VCT	VINYL COMPOSITION TILE
EXIST	EXISTING	MAX	MAXIMUM	R	RADIUS	VERT	VERTICAL
EXP	EXPANSION	MECH	MECHANICAL	RCP	REFLECTED CEILING PLAN	VIF	VERIFY IN FIELD
EXT	EXTERIOR	MEMB	MEMBRANE	RD	ROOF DRAIN, ROAD	VIN	VINYL
		MFR	MANUFACTURE (R)	REC	RECESSED	W	WEST
						W	WITH

COMPLIANCE WITH PLAN DOCUMENTS

- DIMENSIONS:
 - DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS.
 - ALL DIMENSIONS TO OPENINGS ARE TO THE ROUGH OPENING UNLESS NOTED OTHERWISE.
 - ALL DIMENSIONS TO STUD PARTITIONS ARE TO THE FACE OF FRAMING UNLESS NOTED OTHERWISE.
 - CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.
 - WHERE INDICATED, DIMENSIONS SHALL BE TO CENTER / GRID LINES.
 - ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK.
 - ACCESSIBILITY DIMENSIONS SHALL BE MEASURED TO FACE OF WALL FINISH, CLEAR OPENING AND AS INDICATED ON ENLARGED PLAN, MOUNTING HEIGHTS SHEET, TOILET ROOM ELEVATIONS AND STANDARD DETAILS DRAWING SHEET.
 - DIMENSIONING PROTOCOLS / HIERARCHY:
 - "ENLARGED PLAN" INCLUDE ALL DIMENSIONING ASSOCIATED WITH THE GRAPHICS SHOWN.
 - OVERALL PLANS SHOW DIMENSIONS NOT INDICATED ON "PARTIAL DIMENSIONING PLANS."
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OR CONSTRUCTIONS ON THE PROJECT AND IF NOT CLEAR AN REQUEST FOR INFORMATION (RFI) SHALL BE ISSUED TO ARCHITECT FOR CLARIFICATION.
- CONCRETE CONSTRUCTION SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE INCLUDING CHAPTERS 16, 17, 18 AND 19.

BUILDING CODE ANALYSIS

SITE ACCESSIBILITY

AT HAZARDOUS VEHICLE LOCATIONS:	A. CONFIRM WITH CITY AGENCY HAVING JURISDICTION.
---------------------------------	--

USE AND OCCUPANCY CLASSIFICATION

(CBC CHAPTER 3) 304.1, 311.1.1, 311.3	A. OCC TYPE B SECTION 304.1 - MAIN OCCUPANCY B. OCC TYPE S2 SECTION 311.3
	ACCESSORY STORAGE SPACES (311.1.1) • ROOMS USED FOR STORAGE PURPOSES THAT ARE LESS THAN 100 SQ. FT. AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS PART OF THAT OCCUPANCY

SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY

(CBC CHAPTER 4)	A. NONE
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BASIC ALLOWABLE AREA, HEIGHT & STORIES

(CBC CHAPTER 5) 503, 504, 506, 507 TABLE 504.3, 504.4, 506.2, 506.3	TYPE VB (B OCC) A. ALLOWABLE BUILDING HEIGHT = 40'-0" ACTUAL = 20'-0" B. ALLOWABLE BUILDING AREA PER STORY = 6,000 SF ACTUAL = 5,167 SF C. ALLOWABLE NUMBER OF STORIES = 2 ACTUAL = 1
---	---

MIXED USE AND OCCUPANCY

(CBC CHAPTER 5) 508, 508.3.3	TYPE VB (B OCC) TYPE VB (S2 OCC) NO SEPARATION IS REQUIRED AT NON SEPARATED OCCUPANCIES
---------------------------------	---

TYPES OF CONSTRUCTION

(CBC CHAPTER 6.7) 602, TABLE 601, TABLE 602, TABLE 705.8, TABLE 715.4	FIRE RESISTIVE RATING REQUIREMENTS: TYPE VB • BEARING WALLS - EXT = NON-RATED (10' ≤ <30') = 1 HOUR (5' ≤ 10') = 1 HOUR (X ≤ 5') = NON-RATED (X ≤ <30'-0') = 1 HOUR (X ≤ 30'-0') • BEARING WALLS - INT = NON-RATED • NON BEARING WALLS - INT = NON-RATED • STRUCTURAL FRAME = NON-RATED • PARTITIONS PERMANENT = NON-RATED • FLOOR AND FLOOR/CEILING = NON-RATED • ROOFS AND ROOF/CEILING = NON-RATED • EXTERIOR DOORS & WINDOWS = NON RATED • INTERIOR DOORS & WINDOWS = 3/4 HOUR @ 1-HOUR = 1/3 HOUR ELSEWHERE • EXIT PASSAGEWAYS = 1 HOUR
--	---

FIRE ALARM AND DETECTION SYSTEMS

(CBC CHAPTER 9) 907.2.2	A. MANUAL FIRE ALARM SYSTEM B. MANUAL FIRE ALARM BOXES ARE NOT REQUIRED THROUGHOUT BUILDING WHEN AN AUTOMATIC SPRINKLER SYSTEM IS INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 C. OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATERFLOW. D. AT LEAST ONE MANUAL FIRE ALARM BOX IS INSTALLED IN AN APPROVED LOCATION.
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CONCEALED SPACES

(CBC CHAPTER 7) 718.4 718.4.3	A. NOT REQUIRED IN GROUPS B, AND S
-------------------------------------	------------------------------------

EXIT ACCESS TRAVEL DISTANCE

(CBC CHAPTER 10) TABLE 1017.2	A. B OCCUPANCY WITHOUT SPRINKLER SYSTEM B. 200 FT OF TRAVEL DISTANCE ALLOWED A. S2 OCCUPANCY WITHOUT SPRINKLER SYSTEM B. 300 FT OF TRAVEL DISTANCE ALLOWED
----------------------------------	---

EXIT ACCESS DOORWAYS

(CBC CHAPTER 10) TABLE 1006.2.1 TABLE 1006.3.2(2) 1006, 1010.1.9.1, 1010.1.9.2	A. MIN TWO EXITS REQUIRED BASED ON OCCUPANT LOAD B OCC ≥ 50 OCCUPANTS B. MAX COMMON PATH OF TRAVEL DISTANCE B OCC = 75 FEET C. HARDWARE • NO SPECIAL KNOWLEDGE HARDWARE TYPE • SHALL BE INSTALLED BETWEEN 34" MIN AND 48" MAX AFF
---	---

ROOF CONSTRUCTION

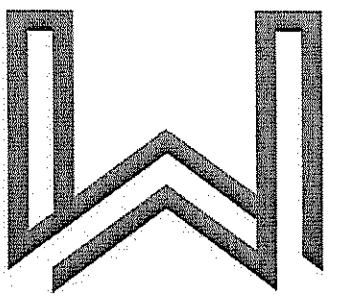
(CBC CHAPTER 15) TABLE 1505.1	A. CONSTRUCTION TYPE VB B. "CLASS A" MIN ROOF COVERING CLASSIFICATION
----------------------------------	--

INTERIOR WALL AND CEILING FINISH MATERIAL

(CBC CHAPTER 8) TABLE 803.11	B OCC - FLAME SPREAD AND SMOKE DEVELOPED INDEX • EXITS, ENCLOSURES AND PASSAGEWAYS - CLASS 'B' • CORRIDORS - CLASS 'C' • ROOMS AND ENCLOSED SPACES - CLASS 'C' S OCC - FLAME SPREAD AND SMOKE DEVELOPED INDEX • EXITS, ENCLOSURES AND PASSAGEWAYS - CLASS 'C' • CORRIDORS - CLASS 'C' • ROOMS AND ENCLOSED SPACES - CLASS 'C'
---------------------------------	--

PORTABLE FIRE EXTINGUISHERS

(CFC CHAPTER 9) SECTION 906 TABLE 906.3(1)	A. EXTINGUISHER LOCATIONS B. MAXIMUM FLOOR AREA 3,000 SF (2,164/3000=.721 1 REQUIRED) (LIGHT HAZARD OCCUPANCY) A. MAXIMUM TRAVEL DISTANCE 75 FEET
--	--



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Drawn By: JMT

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1	Plan review 1-24-2019	1/31/2019

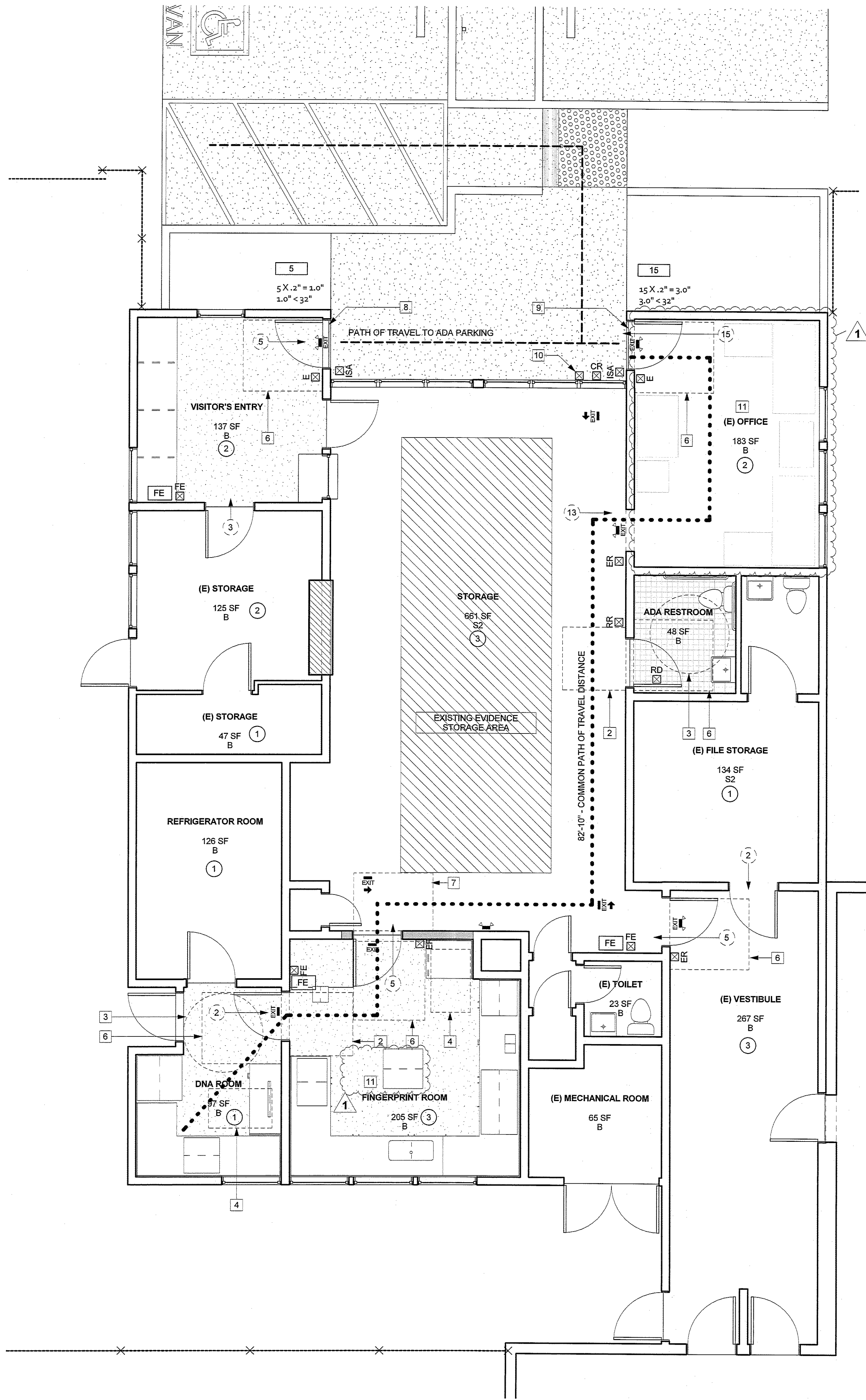
Drawing Title:

CODE ANALYSIS

JOB SET

Drawing Number:

A0.2



GENERAL NOTES

- A. FOR SIGNAGE REFER TO SPECIFICATION SECTION 10440, DETAILS AND THIS SHEET. VERIFY ALL LETTER SIGNAGE WITH ARCHITECT PRIOR TO FABRICATION.
- B. COORDINATE THIS PLAN WITH DOCUMENTS INCLUDING BUT NOT LIMITED TO SITE PLAN, FLOOR PLANS, ELEVATIONS, AND CEILING PLANS FOR ALL DISCIPLINES.
- C. INSTALL BLANK SIGN ON OPPOSITE SIDE OF SIGN WHEN INSTALLING ON GLASS.
- D. MOUNT SIGNS BACK TO BACK AT GLAZING.
- E. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:12 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. PATH IS AT LEAST 48" IN WIDTH WITH A STABLE, FIRM, AND SLIP RESISTANT SURFACE. THE CROSS SECTION DOES NOT EXCEED 2% SLOPE AND THE SLOPE IN DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
- F. FOR SIGNAGE, REFER TO LEGEND AND DETAILS.
- G. CONSTRUCT LEVEL LANDING @ ALL EXTERIOR DOORS. 60" CLEAR FLOOR AREA IN DIRECTION OF DOOR SWING WITH 24" CLEAR DIM. AT STRIKE SIDE OF DOOR. FLOOR/GRADE NOT TO EXCEED 2% SLOPE.
- H. WALK SURFACES WITH A SLOPE OR GRADIENT OF LESS THAN 6% SHALL HAVE A SLIP RESISTANCE OF AT LEAST A MEDIUM SALTED FINISH.
- I. UNLESS NOTED OTHERWISE, CONTROL & EXPANSION JOINTS SHALL BE EVENLY SPACED.

SHEET NOTES

1. 54" x 48" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
2. 48" x 48" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
3. 60" RADIUS MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
4. 30" x 48" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
5. 48" x 60" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
6. 54" x 60" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
7. 44" x 60" MANEUVERING CLEARANCE AS INDICATED, TYPICAL WHERE SHOWN.
8. PUBLIC ENTRY: SECURE POWER ASSISTED ADA DOOR, ACTIVATION FROM WITHIN THROUGH SHERIFF'S PERSONNEL.
9. PERSONNEL ENTRY: SECURE POWER ASSISTED ADA DOOR, ACTIVATION THROUGH CARD READER AND WALL MOUNTED BUTTON.
10. OWNER PROVIDED POWER ASSISTED ADA DOOR OPENERS, BUTTON LOCATION INDICATED.
11. 36" WIDE CLEAR AISLE WIDTH TO BE MAINTAINED AT ALL TIMES.

LEGEND

ROOM SYMBOLS

- Name → ROOM NAME
- Room Number → ROOM NUMBER
- 150 SF → SQUARE FOOTAGE
- Occupancy → OCCUPANCY TYPE
- 1 occ

OCCUPANT LOAD FACTOR

CBC SECTION 1004 TABLE 1004.1.2

OCCUPANCY	FACTOR
B	100 SF (OFFICE)
ACCESSORY USE	300 SF (STORAGE, MECHANICAL EQUIPMENT)
S2	300 SF (STORAGE)

EXITING ANALYSIS SYMBOLS

- (C) OCCUPANT LOAD OF SPECIFIC ROOM
- (C) SF / FLOOR AREA ALLOWANCE PER OCCUPANT = OCCUPANT LOAD
- (C) ARROW SHOWS DIRECTION OF TRAVEL
- (C) ESTIMATED OCCUPANT LOAD TO EXIT FROM MAIN AREA, TYPICALLY 1/2 OR 1/3 THE MAIN AREA OCCUPANT LOAD ARROW SHOWS DIRECTION OF TRAVEL
- ## ## ## COMBINED OCCUPANT LOAD WHEN MULTIPLE LOADS DUMP INTO A SINGLE AREA
- OCCUPANT LOAD AT EXTERIOR DOOR USED FOR MINIMUM CLEAR DOOR WIDTH CALCULATION.
- ⋯ (CPT) COMMON PATH OF EGRESS TRAVEL: That portion of the exit access travel distance measured from the most remote point within a story to that point where the occupants have separate access to two exits or exit access doorway.
- MAXIMUM COMMON PATH OF EGRESS TRAVEL: (CBC TABLE 1006.2.1)
- B OCC: LESS THAN 30 OCC MORE THAN 30 OCC
- B OCC: 100' 75'
- (ET) EXIT ACCESS TRAVEL: Travel distance along Separate Access to two Exits or an Exit Access Doorway.
- MAXIMUM EXIT EGRESS TRAVEL: (Combined with Common Path of Travel, per CBC TABLE 1017.2)
- B OCC: NO SPRINKLERS WITH SPRINKLERS
- B OCC: 200' 300'
- POINT OF OPTIONS TO EGRESS EXIT ACCESS: Symbol represents end of Common Path of Travel and Access to a minimum of two Exit Pathways or Exit Access Doorways.

HARDWARE

- ◇ TYPICAL NON LATCHING HARDWARE AT EXIT DOORS.
- ◇ PANIC DEVICE (EXIT DEVICE) AT LATCHING DOORS.

FIRE EXTINGUISHERS

- FE FIRE EXTINGUISHER AND BRACKET LOCATION

EXIT SIGNS (ILLUMINATED)

- EMERGENCY EGRESS LIGHTING
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN W/ EMERGENCY LIGHTING AND BATTERY BACKUP

ADA SIGNAGE

- NOTE:
1. REFER TO SITE PLAN AND DETAILS FOR SITE SIGNAGE NOT ATTACHED TO BUILDING OR LOCATED WITHIN BUILDING.
 2. COLOR OF ALL SIGNS TO BE APPROVED BY ARCHITECT

- ⊠ E TACTILE EXIT SIGN: "EXIT" (CBC 1013.1.1013.4)
 - EACH GRADE LEVEL EXTERIOR DOOR WHICH LEADS DIRECTLY TO EXTERIOR.

- ⊠ ER TACTILE EXIT SIGN: "EXIT ROUTE" (CBC 1013.1.1013.4)
 - EACH EXIT DOOR OR EXIT PATH WHICH INCLUDES AN EXIT SIGN THAT LEADS DIRECTLY TO A GRADE LEVEL EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN.
 - EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN.

- ⊠ ESU TACTILE EXIT SIGN: "EXIT STAIR UP" (CBC 1013.1.1013.4)
 - EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY

- ⊠ ESD TACTILE EXIT SIGN: "EXIT STAIR DOWN" (CBC 1013.1.1013.4)
 - EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY

- ⊠ RD RESTROOM DOOR MOUNTED IDENTIFICATION SIGN:
 - ACCESSIBLE UNISEX GEOMETRIC SYMBOL

- ⊠ RR RESTROOM WALL MOUNTED IDENTIFICATION SIGN:
 - ACCESSIBLE UNISEX RESTROOM SIGN - 6X8

- ⊠ PR PERMANENT AND TACTILE ROOM IDENTIFICATION SIGN
- ⊠ ISA ACCESSIBLE ENTRANCE SIGN: "INTERNATIONAL SYMBOL OF ACCESSIBILITY"

- ⊠ SEA SITE ACCESSIBLE ENTRANCE SIGN
- ⊠ FE FIRE EXTINGUISHER SIGNAGE.

- ⊠ OCC MAXIMUM OCCUPANCY SIGNAGE: "MAXIMUM OCCUPANCY SHALL NOT EXCEED [FILL IN]"
 - WHICH READS MAXIMUM NUMBER OF PEOPLE PER CBC SECTION 1004.3 AND QUANTITY AS NOTED ON PLAN.
 - MOUNT SIGN ON WALL AT 8'-0" AFF TO TOP OF SIGN.

Room Name	Occupancy	Area	Occupancy Load Factor	Occupancy Load
(E) OFFICE	B	183 SF	100	2
STORAGE	S2	661 SF	300	3
ADA RESTROOM	B	48 SF	0	3
(E) FILE STORAGE	S2	134 SF	300	1
(E) VESTIBULE	B	267 SF	100	3
(E) MECHANICAL ROOM	B	65 SF	0	3
(E) TOILET	B	23 SF	0	3
(E) CLOSET	B	8 SF	0	3
FINGERPRINT ROOM	B	205 SF	100	3
DNA ROOM	B	97 SF	100	1
REFRIGERATOR ROOM	B	126 SF	300	1
(E) STORAGE	B	125 SF	100	2
(E) STORAGE	B	47 SF	300	1
VISITOR'S ENTRY	B	137 SF	100	2

1 EGRESS & SIGNAGE PLAN
1/4" = 1'-0"

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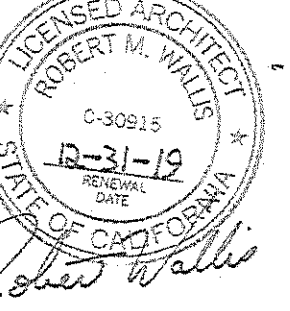
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	1-24-2019	

Drawing Title:
EGRESS AND SIGNAGE PLAN JOB SET

Drawing Number:

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No.	Description	Date

INSPECTOR
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CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in 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, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed building [N] or to additions and alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 Phased projects. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Tenant improvements. The provisions of this code shall apply only to the initial tenant occupancy improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 Scope. The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

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

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.

Eligible vehicles are limited to the following:

- Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
- High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.150 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ride-sharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION. Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMP). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP.

1. Soil loss BMP that should be considered for each project include, but are not limited to, the following:

- Scheduling construction activity.
- Preservation of natural features, vegetation and soil.
- Drainage swales or lined ditches to control stormwater flow.
- Mulching or hydroseeding to stabilize disturbed soils.
- Erosion control to protect slopes.
- Protection of storm drain inlets (gravel bags or catch basin inserts).
- Perimeter sediment control (perimeter silt fence, fiber rolls).
- Sediment trap or sediment basin to retain sediment on site.
- Stabilized construction exits.
- Wind erosion control.
- Other soil loss BMP acceptable to the enforcing agency.

2. Good housekeeping BMP to manage construction equipment, materials and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:

- Material handling and waste management.
- Building materials stockpile management.
- Management of washout areas (concrete, paints, stucco, etc.).
- Control of vehicle/equipment fueling to contractor's staging area.
- Vehicle and equipment cleaning performed off-site.
- Spill prevention and control.
- Other housekeeping BMP acceptable to the enforcing agency.

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5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.

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 applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with 10 or more tenant-occupants or for additions or alterations that add 10 or more tenant-occupants or for additions or alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicle parking spaces being added, with a minimum of one space. Acceptable parking facilities shall be convenient from the street and shall meet one of the following:

- Covered, lockable enclosures with permanently anchored racks for bicycles;
- Lockable bicycle rooms with permanently anchored racks; or
- Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

- Covered, lockable enclosures with permanently anchored racks for bicycles;
- Lockable bicycle rooms with permanently anchored racks; or
- Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Energy Commission (CEC)* and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

- The type and location of the EVSE.
- A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.
- The raceway shall not be less than trade size 1."
- The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
- The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

- The type and location of the EVSE.
- The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
- Plan design shall be based upon 40-ampere minimum branch circuits.
- Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
- The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

- Where there is insufficient electrical supply.
- Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

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TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
36-50	2
51-75	4
76-100	5
101-200	7
201 AND OVER	6% of total ¹

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.
Notes:

- The California Department of Transportation adopts and publishes the California Manual on Uniform Traffic Control Devices (California MUTCD) to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and Pavement Markings can be found in the New Policies & Directives number 13-01. www.dot.ca.gov/hq/traffops/policy/13-01.pdf.
- See Vehicle Code Section 22511 for EV charging spaces signage in off-street parking facilities and for use of EV charging spaces.
- The Governor's Office of Planning and Research published a Zero-Emission Vehicle Community Readiness Guidebook which provides helpful information for local governments, residents and businesses. www.opr.ca.gov/docs/ZEV_Guidebook.pdf.

5.106.8 LIGHT POLLUTION REDUCTION. [N] Outdoor lighting systems shall be designed and installed to comply with the following:

- The minimum requirements in the California Energy Code for Lighting Zones 1-4 as defined in Chapter 10 of the California Administrative Code; and
- Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11; and
- Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

- Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.
- Emergency lighting.
- Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
- Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

Note: [N] See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

- Swales.
- Water collection and disposal systems.
- French drains.
- Water retention gardens.
- Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS^{1,2}

ALLOWABLE RATING	LIGHTING ZONE	LIGHTING ZONE	LIGHTING ZONE	LIGHTING ZONE
	1	2	3	4
MAXIMUM ALLOWABLE BACKLIGHT RATING¹				
Luminaire greater than 2 mounting heights (MH) from property line	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING				
For area lighting	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	U1	U2	U3	U4
MAXIMUM ALLOWABLE GLARE RATING¹				
Luminaire greater than 2 MH from property line	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting".

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

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DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope. [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

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

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETA) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which as two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

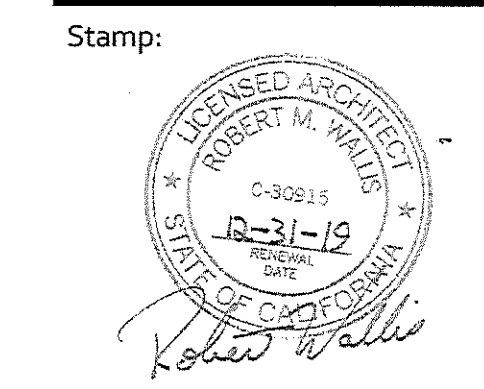
WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

- For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (80 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
- Where separate submeters for individual building tenants are unfeasible, for water supplied to the following sub-systems:
 - Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
 - Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
 - Steam and hot water boilers with energy input more than 500,0



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SECTION 5.304 OUTDOOR WATER USE
5.304.1 **SCOPE.** The provisions of Section 5.304, Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7, Division 2, Title 23, California Code of Regulations.
5.304.2 **OUTDOOR WATER USE IN LANDSCAPE AREAS EQUAL TO OR GREATER THAN 500 SQUARE FEET.** When water is used for outdoor irrigation for new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review, one of the following shall apply:
1. A local water efficient landscape ordinance that is, based on evidence in the record, at least as effective in conserving water as the updated model ordinance adopted by the Department of Water Resources (DWR) per Government Code Section 65595(c).
2. The California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations.
5.304.3 **OUTDOOR WATER USE IN REHABILITATED LANDSCAPE PROJECTS EQUAL TO OR GREATER THAN 2,500 SQUARE FEET.** Rehabilitated landscape project with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review shall comply with Section 5.304.2, Item 1 or 2.
5.304.4 **OUTDOOR WATER USE IN LANDSCAPE AREAS OF 2,500 SQUARE FEET OR LESS.** Any project with an aggregate area of 2,500 square feet or less may comply with the performance requirements of MWELO or conform to the prescriptive compliance measures contained in MWELO's Appendix D.
5.304.5 **GRAYWATER OR RAINWATER USE IN LANDSCAPE AREAS.** For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimate Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5).
Notes:
1. DWR's Model Water Efficient Landscape Ordinance, definitions and supporting documents are available at the following link: <http://water.ca.gov/wateruse/efficiency/landscapeordnance/>
2. A water budget calculator is available at the following link: <http://water.ca.gov/wateruse/efficiency/landscapeordnance/>
3. The MWELO prescriptive compliance measure Appendix D may be found at the following link: <http://water.ca.gov/wateruse/efficiency/landscapeordnance/>
In addition, a copy of MWELO Appendix D may be found in Chapter 8 of this code.
5.304.6 **OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS (DSA-SS).** For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.
Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of MWELO.
5.304.6.1 **Newly constructed landscapes, (DSA-SS)** New construction projects with an aggregate landscape area equal to or greater than 500 square feet.
5.304.6.2 **Rehabilitated landscapes, (DSA-SS)** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.
5.304.3 **IRRIGATION DESIGN.** In new nonresidential construction with at least 1,000 but not more than 2,500 square feet of cumulative landscaped area (the level at which the MWELO applies), install irrigation controllers and sensors which include the following criteria, and meet manufacturer's recommendations.
5.304.3.1 **Irrigation controllers.** Automatic irrigation system controllers installed at the time of final inspection shall comply with the following:
1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.
2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.
Note: More information regarding irrigation controller function and specifications is available from the Irrigation Association.
DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY
SECTION 5.401 GENERAL
5.401.1 **SCOPE.** The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.
SECTION 5.402 DEFINITIONS
5.402.1 **DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference)
ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.
BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.
BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.
ORGANIC WASTE. Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.
TEST. A procedure to determine quantitative performance of a system or equipment
SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT
5.407.1 **WEATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 (Weather Protection) and California Energy Code Section 150, (Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent.
5.407.2 **MOISTURE CONTROL.** Employ moisture control measures by the following methods.
5.407.2.1 **Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures.
5.407.2.2 **Entries and openings.** Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:
5.407.2.2.1 **Exterior door protection.** Primary exterior entries shall be covered to prevent water 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:
1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.
5.407.2.2.2 **Flashing.** Install flashings integrated with a drainage plane.

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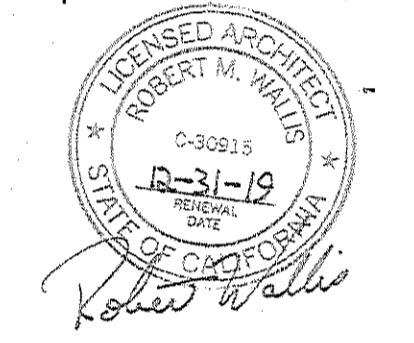
SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
5.408.1 **CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
5.408.1.1 **Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:
1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
5.408.1.2 **Waste Management Company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.
Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.
Exceptions to Sections 5.408.1.1 and 5.408.1.2:
1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.
5.408.1.3 **Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.
5.408.1.4 **Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.
Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CaliforniaGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).
5.408.2 **UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.
Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGG_UWR_FinalText.pdf
5.408.3 **EXCAVATED SOIL AND LAND CLEARING DEBRIS.** 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.
Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.
Notes:
1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdafs.ca.gov)
SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS
5.410.1 **RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a locally enacted local recycling ordinance, if more restrictive.
Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) at 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, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.
Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.
5.410.1.2 **Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code, Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (As).
Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.
5.410.2 **COMMISSIONING. [N]** 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 verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. All occupancies other than I-occupancies and L-occupancies shall comply with the California Energy Code as prescribed in California Energy Code Section 120.8. For I-occupancies that are not regulated by OSHPD or for L-occupancies and L-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.
Commissioning requirements shall include:
1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.
Exceptions:
1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. 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 provide heating and/or air conditioning.
Informational Notes:
1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

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5.410.2.1 **Owner's or Owner Representative's Project Requirements (OPR). [N]** The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Energy efficiency goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.
5.410.2.2 **Basis of Design (BOD). [N]** A written explanation 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 cover the following systems:
1. Heating, ventilation, air conditioning (HVAC) systems and controls.
2. Indoor lighting system and controls.
3. Water heating system.
4. Renewable energy systems.
5. Water reuse systems.
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:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
a. An explanation of the original design intent.
b. Equipment and systems to be tested, including the extent of tests.
c. Functions to be tested.
d. Conditions under which the test shall be performed.
e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.
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 made.
5.410.2.5 **Documentation and training. [N]** A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.
5.410.2.5.1 **Systems manual. [N]** Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.
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 report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.
5.410.2.6 **Commissioning report. [N]** A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.
5.410.4 **TESTING AND ADJUSTING.** Testing and adjusting of systems shall be required for 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 **Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:
1. HVAC systems and controls.
2. Indoor and outdoor lighting and controls.
3. Water heating systems.
4. Renewable energy systems.
5. Landscape irrigation systems.
6. 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 space 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 warranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.
5.410.4.5.1 **Inspections and reports.** Include a copy of all inspection verifications and reports required by the enforcing agency.

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DIVISION 5.5 ENVIRONMENTAL QUALITY
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, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.
SECTION 5.502 DEFINITIONS
5.502.1 **DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference)
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 decibels 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 adjustments have been made.
1 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 Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.
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 to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.
COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood 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.
DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).
DECIBEL (dB). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.
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-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground 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 and the electric vehicle.
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 traffic 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.
GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.
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 its Fourth Assessment 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.
HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (A) a chlorofluorocarbon, a hydrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP 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).
LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.
LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).
MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999.
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 hundredths of a gram (g O₃/g ROG).
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 hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
PSIG. Pounds per square inch, gauge.
REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.
SCHRADER ACCESS VALVES. Access fittings with a valve core installed.
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 to remote compressor units or condensing units.
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 oxygen, nitrogen and other elements. See CCR Title 17, Section 94506(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
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 to meet the emission limits.
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 air 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 prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.
5.504.3 **Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation, or during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may collect in the system.



No.	Description	Date

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5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

- Adhesives, adhesive bonding primers adhesive primers, sealants, 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 aerosol products as specified in subsection 2, below.
- 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 VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR 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	
PVC WELDING	510
CPVC 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
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	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

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.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.2.1, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 43.

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TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2,3}

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	
STAINS	100
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification
- Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

- Carpet and Rug Institute's Green Label Plus Program.
- Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).
- NSF/ANSI 140 at the Gold level or higher;
- Scientific Certifications Systems Sustainable Choice; or
- Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian ANZS 2289 or European EN 338 standards.
- Other methods acceptable to the enforcing agency.

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TABLE 5.504.4.5 - FORMALDEHYDE LIMITS:

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ²	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

- Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
- Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
- Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database; or
- Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.6.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions:

- An ASHRAE 10% to 15% efficiency filter shall be permitted for an HVAC unit meeting the 2013 California Energy Code having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow.
- Existing mechanical equipment.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, 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 signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO₂) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

- Within the 65 CNEL noise contour of an airport.

Exceptions:

- Leq or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLUZ) plan.
- Leq or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

- Within the 65 CNEL or Leq noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

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 roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toobase.org/PDF/CaseStudies/stc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

INSPECTOR SIGNOFF

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mills.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the California Mechanical Code and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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 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. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs.
- Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
- Programs sponsored by manufacturing organizations.
- Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION (HCD). When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:



149 Crown Point Ct., Suite C
Grass Valley, CA 95945
(530) 264-7010
WallisDesignStudio.com

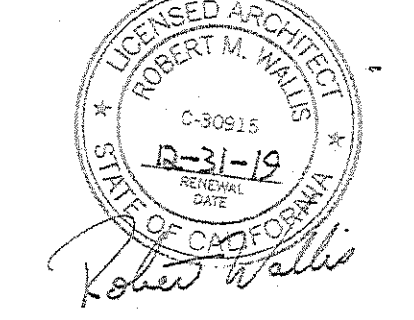
Sheriff Property Unit

NC Facilities Management

15076 State Highway 49
Nevada City, California 95959
APN: 05-040-03

PERMIT DOCUMENTS

Stamp:



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Consultant:

Proj. No.: 2018006

Date: 12/11/2018

Scale: As indicated

Drawn By: JMT

Revisions:

No.	Description	Date

Drawing Title:

SHEET SPECIFICATION JOB SET

Drawing Number:

A0.7

SECTION 064116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: SHOP DRAWINGS, SAMPLES SHOWING THE FULL RANGE OF COLORS AVAILABLE FOR EACH TYPE OF FINISH.

PART 2 - PRODUCTS
2.1 ARCHITECTURAL CABINE
A. QUALITY STANDARD: AVM, AVMAC, AND WIS "ARCHITECTURAL WOODWORK STANDARDS."
B. PLASTIC-LAMINATE CABINETS: CUSTOM GRADE.
1. TYPE OF CONSTRUCTION: FRAMELESS
2. CABINET DOOR AND DRAWER STYLE: FLUSH OVERLAY
3. LAMINATE CLADDING: HORIZONTAL SURFACES OTHER THAN TOPS, GRADE HGS; POSTFORMED SURFACES, GRADE HGP; VERTICAL SURFACES, GRADE HSS; EDGES, GRADE HGS; SEMIEXPOSED SURFACES, GRADE VGS.
4. DRAWER SIDES AND BACKS: THERMOSET DECORATIVE PANELS.
5. DRAWER BOTTOMS: THERMOSET DECORATIVE PANELS.

2.2 MATERIALS
A. WOOD MOISTURE CONTENT: 5 TO 10 PERCENT.
B. MEDIUM-DENSITY FIBERBOARD: ANSI A208.2, GRADE 130, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
C. PARTICLEBOARD: ANSI A208.1, GRADE M-2, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
D. VENEER: VENEER PRODUCTS (HARDWOOD PLYWOOD); HPVVA HP-1, MADE WITH ADHESIVE CONTAINING NO UREA FORMALDEHYDE.
E. HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD 3.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
A. ABET LAMINATING
B. FORMICA CORPORATION
C. LAMIN-ART, INC.
D. NEVAMAR
E. PIONITE
F. WILSONART INTERNATIONAL HOLDINGS, INC.
2.3 CABINET HARDWARE AND ACCESSORY MATERIALS
A. BUTT HINGES: 2-3/4-INCH, FIVE-KNUCKLE STEEL HINGES MADE FROM 0.095-INCH THICK METAL, AND AS FOLLOWS:
1. SEMI-CONCEALED HINGES FOR FLUSH DOORS: BHMA A156.9, B01361.
2. FRAMELESS CONCEALED HINGES (EUROPEAN TYPE): BHMA A156.9, B01602, 100 DEGREES OF OPENING.
3. WIRE PULLS: BACK MOUNTED, SOLID METAL 4 INCHES LONG, 5/16 INCH IN DIAMETER.
D. CATCHES: MAGNETIC CATCHES, BHMA A156.9, B03141
E. ADJUSTABLE SHELF STANDARDS AND SUPPORTS: BHMA A156.9, B04071; WITH SHELF SYSTEMS, B04081.
F. SHELF RESTS: BHMA A156.9, B04013; METAL.
G. DRAWER SLIDES: BHMA A156.9, B05091.
1. BOX DRAWER SLIDES: GRADE 1.
2. FILE DRAWER SLIDES: GRADE 1HD-100.
3. PENOL DRAWER SLIDES: GRADE 2.
4. KEYBOARD SLIDES: GRADE 1.
5. TRASH BIN SLIDES: GRADE 1HD-200.
H. DRAWER LOCKS: BHMA A156.11, E07041.
I. EXPOSED HARDWARE FINISHES: COMPLY WITH BHMA A156.18 FOR BHMA CODE NUMBER INDICATED.
1. FINISH: SATIN CHROME: BHMA 626 OR BHMA 652.
2. FURRING, BLOCKING, SHIMS, AND HANGING STRIPS: SOFTWOOD OR HARDWOOD LUMBER, KILN DRIED TO 15 PERCENT MOISTURE CONTENT.

2.4 FABRICATION
A. COMPLETE FABRICATION TO MAXIMUM EXTENT POSSIBLE BEFORE SHIPMENT TO PROJECT SITE. DISASSEMBLE COMPONENTS ONLY AS NECESSARY FOR SHIPMENT AND INSTALLATION. WHERE NECESSARY FOR FITTING AT SITE, PROVIDE AMPLE ALLOWANCE FOR SCRIBING, TRIMMING, AND FITTING.

SECTION 064116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS (CONTINUED)

PART 3 - EXECUTION
3.1 INSTALLATION
A. BEFORE INSTALLATION, CONDITION CABINETS TO AVERAGE PREVAILING HUMIDITY CONDITIONS IN INSTALLATION AREAS.
B. INSTALL CABINETS TO COMPLY WITH REFERENCED QUALITY STANDARD FOR GRADE SPECIFIED.
C. INSTALL CABINETS LEVEL, PLUMB, TRUE, AND STRAIGHT. SHIM AS REQUIRED WITH CONCEALED SHIMS. INSTALL LEVEL AND PLUMB (INCLUDING TOPS) TO A TOLERANCE OF 1/8 INCH IN 96 INCHES.
D. SCRIBE AND CUT CABINETS TO FIT ADJOINING WORK, REFINISH CUT SURFACES, AND REPAIR DAMAGED FINISH AT CUTS.
E. ANCHOR CABINETS TO ANCHORS OR BLOCKING BUILT INTO OR DIRECTLY ATTACHED TO SUBSTRATES, FASTEN WITH COUNTERSUNK CONCEALED CABINETS AND BLIND NAILING.
F. CABINETS: INSTALL SO DOORS AND DRAWERS ARE ACCURATELY ALIGNED. ADJUST HARDWARE TO CENTER DOORS AND DRAWERS IN OPENINGS AND TO PROVIDE UNENUMBERED OPERATION.
1. FASTEN WALL CABINETS THROUGH BACK, NEAR TOP AND BOTTOM, AT ENDS AND NOT MORE THAN 16 INCHES O.C. WITH NO. 10 WAFER-HEAD SCREWS SIZED FOR 1-INCH PENETRATION INTO WOOD FRAMING, BLOCKING, OR HANGING STRIPS; NO. 10 WAFER-HEAD SHEET METAL SCREWS THROUGH METAL BACKING OR METAL FRAMING BEHIND WALL FINISH; TOGGLE BOLTS THROUGH METAL BACKING OR METAL FRAMING BEHIND WALL FINISH.

SECTION 064600 - WOOD TRIM

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Section includes standing and running trim.
PART 2 - PRODUCTS
2.1 WOOD TRIM
A. Quality Standard: APA, "American Plywood Association."
B. Exterior Trim: Made from Laminated Veneer Lumber (LVL).
1. Manufacturers:
a. Pacific Veneer Laminates, Inc. - SOCOMI LAM
b. LP Building Products - SMART SIDE
c. Or approved equivalent
C. Wood Moisture Content for Exterior Woodwork: 9 to 15 percent.
D. Blocking and Shims: Softwood or hardwood lumber, kiln dried.
E. Fasteners for Exterior Wood Trim:
1. Nails: hot-dip galvanized or stainless steel.
2. Screws: hot-dip galvanized or stainless steel.
2.2 FABRICATION
A. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work.
2.3 SHOP PRIMING
A. Shop prime wood trim for opaque finish with one coat of specified wood primer.
B. Backprime with one coat of sealer or primer, compatible with finish coats. Apply two coats to surfaces installed in contact with concrete or masonry and to end-grain surfaces.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Before installation, condition wood trim to average prevailing humidity conditions in installation areas.
B. Install wood trim to comply with referenced quality standard for grade specified.
C. Install wood trim level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.
D. Scribe and cut wood trim to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
E. Exterior Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use pieces less than 36 inches long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members.
END OF SECTION 064600

2.6 MISCELLANEOUS PRODUCTS
A. Fasteners: Size and type indicated. Where rough carpentry is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
1. Power-Driven Fasteners: CABO NER-272.
2. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.
B. Metal Framing Anchors: Structural capacity, type, and size indicated.
1. Manufacturers: One of the following:
a. Cleveland Steel Specialty Co.
b. KC Metals Products, Inc.
c. Phoenix Metal Products, Inc.
d. Simpson Strong-Tie Co., Inc.
e. USP Structural Connectors.
2. Basis-of-Design Product: Product indicated on Drawings or a comparable product of one of the following:
a. G60 coating designation for interior locations where stainless steel is not indicated.
3. Use anchors made from stainless steel complying with ASTM A 566, Type 304 for exterior locations and where indicated.
C. Sill Sealer: Closed-cell neoprene foam, 1/4 inch thick.
D. Flexible Flashing: Self-adhesive product consisting of a butyl rubber or rubberized-asphalt compound, bonded to a backing sheet to produce an overall thickness of not less than 0.025 inch.

PART 3 - EXECUTION
3.1 INSTALLATION
A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.
B. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
C. Securely attach rough carpentry to substrates, complying with the following:
1. CABO NER-272 for power-driven fasteners.
2. Published requirements of metal framing anchor manufacturer.
3. Table 2304.9.1, "Fastening Schedule," in the CBC.
END OF SECTION 061000

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: ICES EVALUATION REPORTS FOR TREATED WOOD.
1.2 REFERENCE STANDARDS
2016 CALIFORNIA BUILDING CODE
B. TITLE 24 CALIFORNIA CODE OF REGULATIONS
PART 2 - PRODUCTS
2.1 WOOD PRODUCTS, GENERAL
A. LUMBER: PROVIDE DRESSED LUMBER, S4S, MARKED WITH GRADE STAMP OF INSPECTION AGENCY.
2.2 TREATED MATERIALS
A. PROVIDE PRESERVATIVE-TREATED MATERIALS FOR ITEMS INDICATED ON DRAWINGS, AND THE FOLLOWING:
1. WOOD CANTS, NAILERS, CURBS, EQUIPMENT SUPPORT BASES, BLOCKING, STRIPPING, AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
2. WOOD SILLS, BLOCKING, FURRING, STRIPPING, AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
3. WOOD FRAMING MEMBERS THAT ARE LESS THAN 18 INCHES (460 MM) ABOVE THE GROUND.
4. WOOD FLOOR PLATES THAT ARE INSTALLED OVER CONCRETE SLABS-ON-GRADE.
2.3 FRAMING
A. DIMENSION LUMBER:
1. MAXIMUM MOISTURE CONTENT: 19 PERCENT.
2. NON-LOAD-BEARING INTERIOR PARTITIONS: NO. 2; WESTERN WOODS: WCLB OR WWPA.
3. FRAMING OTHER THAN NON-LOAD-BEARING INTERIOR PARTITIONS: NO. 2 OR BETTER, DOUGLAS FIR, WWPA.
4. EXPOSED FRAMING: PROVIDE MATERIAL HAND-SELECTED FOR UNIFORMITY OF APPEARANCE AND FREEDOM FROM CHARACTERISTICS, ON EXPOSED SURFACES AND EDGES, THAT WOULD IMPAIR FINISH APPEARANCE, INCLUDING DECAY, HONEYCOMB, KNOT-HOLES, SHAKE, SPLITS, TORN GRAIN, AND WANE.
5. SPECIES: AS SPECIFIED FOR FRAMING OTHER THAN NON-LOAD-BEARING INTERIOR PARTITIONS.
GRADE: SELECT STRUCTURAL, NO. 1.
B. TIMBERS 5-INCH NOMINAL SIZE AND THICKER: SELECT STRUCTURAL, NO. 1; DOUGLAS FIR-LARCH, DOUGLAS FIR-LARCH (NORTH), OR DOUGLAS FIR-SOUTH: NLGA, WCLB, OR WWPA.
2.4 MISCELLANEOUS DIMENSION LUMBER: CONSTRUCTION, OR NO. 2 GRADE WITH 15 PERCENT MAXIMUM MOISTURE CONTENT OF ANY SPECIES. PROVIDE FOR NAILERS, BLOCKING, AND SIMILAR MEMBERS.
2.5 FASTENERS: SIZE AND TYPE INDICATED. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153/A 153M.
1. POWER-DRIVEN FASTENERS: CABO NER-272.
2. BOLTS, STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A; WITH ASTM A 563 HEX NUTS AND, WHERE INDICATED, FLAT WASHERS.
B. METAL FRAMING ANCHORS: STRUCTURAL CAPACITY, TYPE, AND SIZE INDICATED.
1. MANUFACTURERS: ONE OF THE FOLLOWING:
2. BASIS-OF-DESIGN PRODUCT: PRODUCT INDICATED ON DRAWINGS OR A COMPARABLE PRODUCT OF ONE OF THE FOLLOWING:
a. CLEVELAND STEEL SPECIALTY CO.
b. KC METALS PRODUCTS, INC.
c. PHOENIX METAL PRODUCTS, INC.
d. SIMPSON STRONG-TIE CO., INC.
e. USP STRUCTURAL CONNECTORS.
3. USE ANCHORS MADE FROM HOT-DIP GALVANIZED STEEL COMPLYING WITH ASTM A 653/A 653M, G60 COATING DESIGNATION FOR INTERIOR LOCATIONS WHERE STAINLESS STEEL IS NOT INDICATED.
4. USE ANCHORS MADE FROM STAINLESS STEEL COMPLYING WITH ASTM A 566, TYPE 304 FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
C. SILL SEALER: CLOSED-CELL NEOPRENE FOAM, 1/4 INCH THICK.
D. FLEXIBLE FLASHING: SELF-ADHESIVE PRODUCT CONSISTING OF A BUTYL RUBBER OR RUBBERIZED-ASPHALT COMPOUND, BONDED TO A BACKING SHEET TO PRODUCE AN OVERALL THICKNESS OF NOT LESS THAN 0.025 INCH.

PART 3 - EXECUTION
3.1 INSTALLATION
A. SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED. LOCATE NAILERS, BLOCKING, AND SIMILAR SUPPORTS TO COMPLY WITH REQUIREMENTS FOR ATTACHING OTHER CONSTRUCTION.
B. FRAMING STANDARD: COMPLY WITH AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED.
C. DO NOT SPlice STRUCTURAL MEMBERS BETWEEN SUPPORTS UNLESS OTHERWISE INDICATED.
D. SECURELY ATTACH ROUGH CARPENTRY TO SUBSTRATES, COMPLYING WITH THE FOLLOWING:
1. CABO NER-272 FOR POWER-DRIVEN FASTENERS.
2. PUBLISHED REQUIREMENTS OF METAL FRAMING ANCHOR MANUFACTURER.
3. TABLE 2304.9.1, "FASTENING SCHEDULE," IN THE CBC.
END OF SECTION 061053

SECTION 062000 - FINISH CARPENTRY

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Samples for hardboard paneling, moldings and trim.
PART 2 - PRODUCTS
2.1 MATERIALS, GENERAL
A. Lumber: DOC PS 20 and grading rules of inspection agencies certified by American Lumber Standards Committee Board of Review.
B. Softwood Plywood: DOC PS 1.
C. MDF: ANSI A208.2, Grade 130, made with binder containing no urea-formaldehyde resin.
D. Particleboard: ANSI A208.1, Grade M-2, made with binder containing no urea-formaldehyde resin.
E. Melamine-Faced Particleboard: Particleboard complying with ANSI A208.1, Grade M-2, finished on both faces with thermally fused, melamine-impregnated decorative paper.
2.2 EXTERIOR FINISH CARPENTRY
A. Exterior Lumber Trim: Smooth-textured, Grade B, western red cedar.
1. Maximum Moisture Content: 19 Percent.
2. Interior Standing and Running Trim
Interior Softwood Lumber Trim: B Selected, Douglas fir: vertical grain.
1. Maximum Moisture Content: 15 percent.
2. Transparent Finish
2.3 MISCELLANEOUS MATERIALS
A. Fasteners for Exterior Finish Carpentry: hot-dip galvanized steel.
B. Glue: Aliphatic-resin, polyurethane, or resorcinol wood glue recommended by manufacturer.
1. Wood glue shall have a VOC content of 30 g/L or less.
2. Use waterproof resorcinol glue for exterior applications.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Condition interior finish carpentry in installation areas for 24 hours before installing.
B. Prime and backprime lumber for painted finish exposed on the exterior. Cut to length and prime ends.
C. Install finish carpentry level, plumb, true, and aligned with adjacent materials. Scribe and cut to fit adjoining work. Refinish and seal cuts.
1. Install to tolerance of 1/8 inch in 96 inches for level and plumb. Install adjoining exterior finish carpentry with 1/32-inch maximum offset for flush installation and 1/16-inch maximum offset for reveal installation.
D. Install standing and running trim with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches long except where necessary. Stagger joints in adjacent and related trim. Copse at returns and inside corners and miter at outside corners.
E. Select and arrange paneling for best match of adjacent units. Install with uniform tight joints.
END OF SECTION 062000

SECTION 061000 - ROUGH CARPENTRY

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: ICES EVALUATION REPORTS FOR WOOD-PRESERVATIVE TREATED WOOD, ENGINEERED WOOD PRODUCTS, SHEAR WALL PANELS AND METAL FRAMING ANCHORS.

PART 2 - PRODUCTS
2.1 WOOD PRODUCTS, GENERAL
A. LUMBER: PROVIDE DRESSED LUMBER, S4S, MARKED WITH GRADE STAMP OF INSPECTION AGENCY.
B. ENGINEERED WOOD PRODUCTS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND FOR WHICH CURRENT MODEL CODE RESEARCH OR EVALUATION REPORTS EXIST THAT SHOW COMPLIANCE WITH BUILDING CODE IN EFFECT FOR PROJECT.
1. ALLOWABLE DESIGN STRESSES: ENGINEERED WOOD PRODUCTS SHALL HAVE ALLOWABLE DESIGN STRESSES, AS PUBLISHED BY MANUFACTURER, THAT MEET OR EXCEED THOSE INDICATED. MANUFACTURER'S PUBLISHED VALUES SHALL BE DEMONSTRATED BY COMPREHENSIVE TESTING.

2.2 TREATED MATERIALS
A. PRESERVATIVE-TREATED MATERIALS: AWP4 U1; USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.
1. USE TREATMENT CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
2. KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
3. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE ALSB BOARD OF REVIEW.

B. PROVIDE PRESERVATIVE-TREATED MATERIALS FOR ITEMS INDICATED ON DRAWINGS, AND THE FOLLOWING:
1. WOOD CANTS, NAILERS, CURBS, EQUIPMENT SUPPORT BASES, BLOCKING, STRIPPING, AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
2. WOOD SILLS, BLOCKING, FURRING, STRIPPING, AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
3. WOOD FRAMING MEMBERS THAT ARE LESS THAN 18 INCHES (460 MM) ABOVE THE GROUND.
4. WOOD FLOOR PLATES THAT ARE INSTALLED OVER CONCRETE SLABS-ON-GRADE.
2.3 FRAMING
A. DIMENSION LUMBER:
1. MAXIMUM MOISTURE CONTENT: 19 PERCENT.
2. NON-LOAD-BEARING INTERIOR PARTITIONS: NO. 2; WESTERN WOODS: WCLB OR WWPA.
3. FRAMING OTHER THAN NON-LOAD-BEARING INTERIOR PARTITIONS: NO. 2 OR BETTER, DOUGLAS FIR, WWPA.
4. EXPOSED FRAMING: PROVIDE MATERIAL HAND-SELECTED FOR UNIFORMITY OF APPEARANCE AND FREEDOM FROM CHARACTERISTICS, ON EXPOSED SURFACES AND EDGES, THAT WOULD IMPAIR FINISH APPEARANCE, INCLUDING DECAY, HONEYCOMB, KNOT-HOLES, SHAKE, SPLITS, TORN GRAIN, AND WANE.
5. SPECIES: AS SPECIFIED FOR FRAMING OTHER THAN NON-LOAD-BEARING INTERIOR PARTITIONS.
GRADE: SELECT STRUCTURAL, NO. 1.
B. TIMBERS 5-INCH NOMINAL SIZE AND THICKER: SELECT STRUCTURAL, NO. 1; DOUGLAS FIR-LARCH, DOUGLAS FIR-LARCH (NORTH), OR DOUGLAS FIR-SOUTH: NLGA, WCLB, OR WWPA.
2.4 MISCELLANEOUS DIMENSION LUMBER: CONSTRUCTION, OR NO. 2 GRADE WITH 15 PERCENT MAXIMUM MOISTURE CONTENT OF ANY SPECIES. PROVIDE FOR NAILERS, BLOCKING, AND SIMILAR MEMBERS.
2.5 FASTENERS: SIZE AND TYPE INDICATED. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153/A 153M.
1. POWER-DRIVEN FASTENERS: CABO NER-272.
2. BOLTS, STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A; WITH ASTM A 563 HEX NUTS AND, WHERE INDICATED, FLAT WASHERS.
B. METAL FRAMING ANCHORS: STRUCTURAL CAPACITY, TYPE, AND SIZE INDICATED.
1. MANUFACTURERS: ONE OF THE FOLLOWING:
2. BASIS-OF-DESIGN PRODUCT: PRODUCT INDICATED ON DRAWINGS OR A COMPARABLE PRODUCT OF ONE OF THE FOLLOWING:
a. CLEVELAND STEEL SPECIALTY CO.
b. KC METALS PRODUCTS, INC.
c. PHOENIX METAL PRODUCTS, INC.
d. SIMPSON STRONG-TIE CO., INC.
e. USP STRUCTURAL CONNECTORS.
3. USE ANCHORS MADE FROM HOT-DIP GALVANIZED STEEL COMPLYING WITH ASTM A 653/A 653M, G60 COATING DESIGNATION FOR INTERIOR LOCATIONS WHERE STAINLESS STEEL IS NOT INDICATED.
4. USE ANCHORS MADE FROM STAINLESS STEEL COMPLYING WITH ASTM A 566, TYPE 304 FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
C. SILL SEALER: CLOSED-CELL NEOPRENE FOAM, 1/4 INCH THICK.
D. FLEXIBLE FLASHING: SELF-ADHESIVE PRODUCT CONSISTING OF A BUTYL RUBBER OR RUBBERIZED-ASPHALT COMPOUND, BONDED TO A BACKING SHEET TO PRODUCE AN OVERALL THICKNESS OF NOT LESS THAN 0.025 INCH.

PART 3 - EXECUTION
3.1 INSTALLATION
A. SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED. LOCATE NAILERS, BLOCKING, AND SIMILAR SUPPORTS TO COMPLY WITH REQUIREMENTS FOR ATTACHING OTHER CONSTRUCTION.
B. FRAMING STANDARD: COMPLY WITH AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED.
C. DO NOT SPlice STRUCTURAL MEMBERS BETWEEN SUPPORTS UNLESS OTHERWISE INDICATED.
D. SECURELY ATTACH ROUGH CARPENTRY TO SUBSTRATES, COMPLYING WITH THE FOLLOWING:
1. CABO NER-272 FOR POWER-DRIVEN FASTENERS.
2. PUBLISHED REQUIREMENTS OF METAL FRAMING ANCHOR MANUFACTURER.
3. TABLE 2304.9.1, "FASTENING SCHEDULE," IN THE CBC.
END OF SECTION 061000

Laminated-Veneer Lumber: Manufactured with exterior-type adhesive complying with ASTM D 2559. Allowable design values determined according to ASTM D 5456.
1. Manufacturers: One of the following:
a. Boise Cascade Corporation.
b. Finforest USA.
c. Georgia-Pacific.
d. Jager Building Systems Inc.
e. Louisiana-Pacific Corporation.
f. Pacific Woodtech Corporation.
g. Roseburg Forest Products Co.
h. Standard Structures Inc.
i. Stark Truss Company, Inc.
j. West Fraser Timber Co., Ltd.
k. Weyerhaeuser Company.
l. Or approved equivalent.

2.4 MISCELLANEOUS LUMBER
A. Miscellaneous Dimension Lumber: Construction, or No. 2 grade with 19 percent maximum moisture content of any species. Provide for nailers, blocking, and similar members.
B. Concealed Boards: Western woods, Standard: WCLB; or No. 3 Common: WWPA; with [19] percent maximum moisture content.

SECTION 033000 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA, CONCRETE MIX DESIGNS AND SUBMITTALS REQUIRED BY ACI 301.
B. READY-MIXED CONCRETE PRODUCER QUALIFICATIONS: ASTM C 94/C 94M.

PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. COMPLY WITH ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE;" AND WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."

2.2 MATERIALS
A. REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), DEFORMED.
B. PLAIN STEEL WIRE: ASTM A 82, AS DRAWN.
C. PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185, AS DRAWN, FLAT SHEET.
D. PORTLAND CEMENT: ASTM C 150, TYPE I OR II.
E. FLY ASH: ASTM C 618, CLASS C OR F.
F. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C 989, GRADE 100 OR 120.
G. SILICA FUME IS MOST OFTEN USED IN HIGH-STRENGTH CONCRETE AND IN SPECIAL APPLICATIONS SUCH AS BRIDGE DECKS TO ENHANCE DURABILITY BY LOWERING PERMEABILITY OF CONCRETE. ACI 301 IDENTIFIES SILICA FUME AS A CEMENTITIOUS MATERIAL.
SILICA FUME: ASTM C 1240, AMORPHOUS SILICA.

H. AGGREGATES: ASTM C 33, COARSE AGGREGATE OR BETTER, GRADED, WITH AT LEAST 10 YEARS' SATISFACTORY SERVICE IN SIMILAR APPLICATIONS.
I. MAXIMUM COARSE-AGGREGATE SIZE: 1 INCH NOMINAL.
A. VEHICULAR CONDITIONS: 1 INCH NOMINAL.
B. FOOTINGS, TIE BEAMS, FOUNDATIONS, POST FOOTINGS: 1 1/2 INCH NOMINAL.
C. FLOOR SLABS ON GRADE: 1 INCH NOMINAL.
J. AIR-ENTRAINING ADMIXTURE: ASTM C 260.
K. CHEMICAL ADMIXTURES: ASTM C 494, WATER REDUCING. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE.
L. COLOR PIGMENT: ASTM C 979, SYNTHETIC MINERAL-OXIDE PIGMENTS OR COLORED WATER-REDUCING ADMIXTURES.
1. MANUFACTURERS: ONE OF THE FOLLOWING:
A. DAVIS COLORS
B. SCOFIELD, L. M. COMPANY.
C. SOLOMON COLORS, INC.
M. VAPOR RETARDER: REINFORCED SHEET, ASTM E 1745, CLASS A.
1. PRODUCTS: ONE OF THE FOLLOWING:
A. FORTIFIBER BUILDING SYSTEMS GROUP: MOISTOP ULTRA 15.
B. GRACE CONSTRUCTION PRODUCTS, W. R. GRACE & CO.; FLORPRUF 120.
C. RAVEN INDUSTRIES INC.; VAPOR BLOCK 15.
2. MOISTURE-RETAINING COVER: ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET.

N. CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 1, CLASS B.
O. JOINT-FILLER STRIPS: ASTM D 1751, ASPHALT-SATURATED CELLULOSE FIBER, OR ASTM D 1752, CORK OR SELF-EXPANDING CORK.
2.3 CONCRETE MIXTURES
A. PREPARE DESIGN MIXTURES, PROPORTIONED ACCORDING TO ACI 301.
B. NORMAL-WEIGHT CONCRETE:
1. MINIMUM COMPRESSIVE STRENGTH:
A. VEHICULAR CONDITIONS: 4000 PSI AT 28 DAYS.
B. FOOTINGS, TIE BEAMS, FOUNDATIONS, POST FOOTINGS: 2500 PSI AT 28 DAYS.
C. FLOOR SLABS ON GRADE: 2500 PSI AT 28 DAYS.
2. MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO:
A. VEHICULAR CONDITIONS: 0.45
B. FOOTINGS, TIE BEAMS, FOUNDATIONS, POST FOOTINGS: 0.40
C. FLOOR SLABS ON GRADE: 0.40.
3. SLUMP LIMIT: 4 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, PLUS OR MINUS 1/2 INCH.
4. AIR CONTENT: MAINTAIN WITHIN RANGE PERMITTED BY ACI 301. DO NOT ALLOW AIR CONTENT OF FLOOR SLABS TO RECEIVE TROWELED FINISHES TO EXCEED 3 PERCENT.
5. USE FLY ASH, POZZOLAN, GROUND GRANULATED BLAST-FURNACE SLAG, AND SILICA FUME AS NEEDED TO REDUCE THE TOTAL AMOUNT OF PORTLAND CEMENT, WHICH WOULD OTHERWISE BE USED, BY NOT LESS THAN 40 PERCENT.
6. FOR CONCRETE EXPOSED TO DEICING CHEMICALS, LIMIT USE OF FLY ASH TO 25 PERCENT. REPLACEMENT OF PORTLAND CEMENT BY WEIGHT AND GRANULATED BLAST-FURNACE SLAG TO 40 PERCENT OF PORTLAND CEMENT BY WEIGHT; SILICA FUME TO 10 PERCENT OF PORTLAND CEMENT BY WEIGHT.
C. MEASURE, BATCH, MIX, AND DELIVER CONCRETE ACCORDING TO ASTM C 94/C 94M.
1. WHEN AIR TEMPERATURE IS ABOVE 90 DEG F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.

PART 3 - EXECUTION
3.1 CONCRETING
A. CONSTRUCT FORMWORK ACCORDING TO ACI 301 AND MAINTAIN TOLERANCES AND SURFACE IRREGULARITIES WITHIN ACI 347R LIMITS OF CLASS A, 1/8 INCH FOR CONCRETE EXPOSED TO VIEW AND CLASS B, 1/4 INCH FOR OTHER CONCRETE SURFACES.
B. PLACE VAPOR RETARDER ON PREPARED SUBGRADE, WITH JOINTS LAPPED 6 INCHES AND SEALED.
C. COMPLY WITH CRCSI "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT.
D. INSTALL CONSTRUCTION ISOLATION AND CONTRACTION JOINTS WHERE INDICATED. INSTALL FULL-DEPTH JOINT-FILLER STRIPS AT ISOLATION JOINTS.
E. PLACE CONCRETE IN A CONTINUOUS OPERATION AND CONSOLIDATE USING MECHANICAL VIBRATING EQUIPMENT.
F. PROTECT CONCRETE FROM PHYSICAL DAMAGE, PREMATURE DRYING, AND REDUCED STRENGTH DUE TO HOT OR COLD WEATHER DURING MIXING, PLACING, AND CURING.
G. FORMED SURFACE FINISH: SMOOTH-FORMED FINISH FOR CONCRETE EXPOSED TO VIEW, COATED, OR COVERED BY WATERPROOFING OR OTHER DIRECT-APPLIED MATERIAL; ROUGH-FORMED FINISH ELSEWHERE.
H. SLAB FINISHES: COMPLY WITH ACI 302.1R FOR SCREEDING, RE-STRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES. PROVIDE THE FOLLOWING FINISHES:
1. SCRATCH FINISH FOR SURFACES TO RECEIVE MORTAR SETTING BEDS.
2. FLOAT FINISH FOR SURFACES TO RECEIVE WATERPROOFING, ROOFING, OR OTHER DIRECT-APPLIED MATERIAL.
3. TROWELED FINISH FOR FLOOR SURFACES AND FLOORS TO RECEIVE FLOOR COVERINGS, PAINT, OR OTHER THIN FILM-FINISH COATINGS.
4. TROWEL AND FINE-BROOM FINISH FOR SURFACES TO RECEIVE THIN-SET TILE.
5. NONSLIP-BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS.
I. CURE FORMED SURFACES BY MOISTURE CURING FOR AT LEAST SEVEN DAYS. BEGIN CURING CONCRETE SLABS AFTER FINISHING. KEEP CONCRETE CONTINUOUSLY MOIST FOR AT LEAST SEVEN DAYS. APPLY MEMBRANE-FORMING CURING COMPOUND TO CONCRETE.
K. POLISHED CONCRETE FLOOR TREATMENT: APPLY POLISHED CONCRETE FINISH SYSTEM TO CURED AND PREPARED SLABS
1. MACHINE GRIND FLOOR SURFACES LEVEL AND SMOOTH.
2. APPLY PENETRATING LIQUID FLOOR TREATMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. CONTINUE POLISHING WITH PROGRESSIVELY FINER POLISHING PADS TO GLOSS LEVEL REQUIRED.
4. NEUTRALIZE AND CLEAN POLISHED FLOOR SURFACES.
L. OWNER WILL ENGAGE A TESTING AGENCY TO PERFORM FIELD TESTS AND TO SUBMIT TEST REPORTS.
M. PROTECT CONCRETE FROM DAMAGE. REPAIR AND PATCH DEFECTIVE AREAS.

END OF SECTION

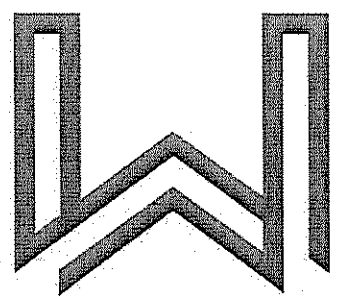
SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN OWNER'S PROPERTY. CAREFULLY DETACH FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, AND DELIVER TO OWNER. INCLUDE FASTENERS OR BRACKETS NEEDED FOR REATTACHMENT ELSEWHERE.
B. PREDEMOLITION PHOTOGRAPHS: SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS. SUBMIT BEFORE WORK BEGINS.
C. OWNER WILL OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE INTERRUPTED. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. REGULATORY REQUIREMENTS: COMPLY WITH EPA REGULATIONS AND WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
B. STANDARDS: COMPLY WITH ANSI/A58E A10.6 AND NFPA 241.

PART 3 - EXECUTION
3.1 DEMOLITION
A. MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. BEFORE PROCEEDING WITH DEMOLITION, PROVIDE TEMPORARY SERVICES/SYSTEMS THAT BYPASS AREA OF SELECTIVE DEMOLITION AND THAT MAINTAIN CONTINUITY OF SERVICES/SYSTEMS TO OTHER PARTS OF THE BUILDING.
B. LOCATE, IDENTIFY, SHUT OFF, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED.
C. REFRIGERANT: REMOVE REFRIGERANT FROM MECHANICAL EQUIPMENT TO BE SELECTIVELY DEMOLISHED RECORDING TO 40 CFR 82 AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
D. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
E. PROTECT WALLS, CEILING, FLOORS, AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN. ERECT AND MAINTAIN DUSTPROOF PARTITIONS, COVER AND PROTECT FURNITURE, FURNISHINGS, AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
F. PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
G. PROVIDE TEMPORARY WEATHER PROTECTION TO PREVENT WATER LEAKAGE AND DAMAGE TO STRUCTURE AND INTERIOR AREAS.
H. REQUIREMENTS FOR BUILDING REUSE:
1. MAINTAIN EXISTING BUILDING STRUCTURE (INCLUDING STRUCTURAL FLOOR AND ROOF DECKING) AND ENVELOPE (EXTERIOR SKIN AND FRAMING, EXCLUDING WINDOW ASSEMBLIES AND NONSTRUCTURAL ROOFING MATERIALS) NOT INDICATED TO BE DEMOLISHED; DO NOT DEMOLISH SUCH EXISTING CONSTRUCTION BEYOND DICTATED LIMITS.
2. MAINTAIN EXISTING INTERIOR NONSTRUCTURAL ELEMENTS (INTERIOR WALLS, DOORS, FLOOR COVERINGS, AND CEILING SYSTEMS) NOT INDICATED TO BE DEMOLISHED; DO NOT DEMOLISH SUCH EXISTING CONSTRUCTION BEYOND INDICATED LIMITS.
I. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION.
J. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL. DO NOT BURN DEMOLISHED MATERIALS.
K. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN.

END OF SECTION 024119



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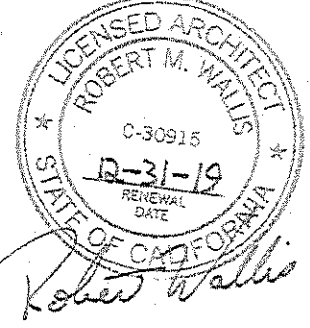
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SPECIFICATION
JOB SET

Drawing Number:

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SECTION 096516 - RESILIENT SHEET FLOORING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. SUBMITTALS: PRODUCT DATA AND SAMPLES.

B. EXTRA MATERIALS:

1. SHEET FLOOR COVERING: DELIVER TO OWNER AT LEAST 10 LINEAR FEET, IN ROLL FORM AND IN FULL ROLL WIDTH, FOR EACH TYPE AND COLOR OF SHEET FLOOR COVERING INSTALLED.

PART 2 - PRODUCTS

2.1 VINYL SHEET FLOORING WITH BACKING

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. MANNINGTON COMMERCIAL

B. VINYL SHEET FLOORING: ASTM F 1303, TYPE I, VINYL SHEET WITH BACKING.

1. OVERALL THICKNESS: .080 INCH
2. INTERLAYER MATERIAL: FOAMED PLASTIC
3. BACKING CLASS: CLASS A FIBROUS

C. WEARING SURFACE: EMBOSSED

D. ROLL SIZE: IN MANUFACTURER'S STANDARD LENGTH, BUT NOT LESS THAN 72 INCHES WIDE.

E. SEAMING METHOD: HEAT WELDED - COMPLY WITH ASTM F 1516.

1. HEAT WELDING BEAD: SOLID-STRAND PRODUCT OF FLOOR COVERING MANUFACTURER.

2.2 INSTALLATION ACCESSORIES

A. TROWELABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND-CEMENT-OR-BLENDED-HYDRAULIC-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY FLOORING MANUFACTURER FOR APPLICATIONS INDICATED.

B. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT FLOOR COVERING AND SUBSTRATE CONDITIONS INDICATED.

1. LOW-EMITTING MATERIALS: ADHESIVES SHALL HAVE A VOC CONTENT OF 50 G/L OR LESS.
2. LOW-EMITTING MATERIALS: ADHESIVES SHALL COMPLY WITH GREEN SEAL'S GS-36 AND WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS."

C. FLOOR POLISH: PROTECTIVE LIQUID FLOOR POLISH PRODUCTS AS RECOMMENDED BY MANUFACTURER.

PART 3 - EXECUTION

3.1 INSTALLATION

A. PREPARE CONCRETE SUBSTRATES ACCORDING TO ASTM F 710. VERIFY THAT SUBSTRATES ARE DRY AND FREE OF CURING COMPOUNDS, SEALERS, AND HARDENERS.

B. UNROLL VINYL SHEET FLOOR COVERINGS AND ALLOW THEM TO STABILIZE BEFORE CUTTING AND FITTING.

C. MAINTAIN UNIFORMITY OF VINYL SHEET FLOORING DIRECTION, AND MATCH EDGES FOR COLOR SHADING AT SEAMS.

D. MINIMIZE NUMBER OF SEAMS; PLACE SEAMS IN INCONSPICUOUS AND LOW-TRAFFIC AREAS, AT LEAST 6 INCHES AWAY FROM PARALLEL JOINTS IN SUBSTRATES.

E. FLOOR POLISH: REMOVE SOIL, VISIBLE ADHESIVE, AND SURFACE BLEMISHES FROM FLOOR COVERING BEFORE APPLYING LIQUID FLOOR POLISH.

1. APPLY ONE.

END OF SECTION 096516

SECTION 093000 - CERAMIC TILING

1.1 SECTION REQUIREMENTS

A. SUBMITTALS: PRODUCT DATA AND SAMPLES.

B. OBTAIN TILE OF EACH TYPE AND COLOR OR FINISH FROM SAME PRODUCTION RUN FOR EACH CONTIGUOUS AREA.

C. DELIVER AND STORE PACKAGED MATERIALS IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS INTACT UNTIL TIME OF USE.

PART 2 - PRODUCTS

2.1 CERAMIC TILE

A. CERAMIC TILE THAT COMPLIES WITH ANSI A137.1.

B. CERAMIC TILE TYPE CT-1 AND CT-2: FLOOR TILE.

1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS: REFER TO FINISH SCHEDULE.

2. GROUT COLOR: AS SELECTED BY ARCHITECT FROM CERAMIC TILE TYPE CT-3: WALL TILE.

1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS: REFER TO FINISH SCHEDULE.

2. GROUT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLOR.

3. TRIM UNITS: COORDINATED WITH SIZES AND COURSING OF ADJOINING FLAT TILE AND MATCHING CHARACTERISTICS OF ADJOINING FLAT TILE.

- a. BASE: COVERED WITH SURFACE BULLNOSE TOP EDGE.
- b. WAINSCOT CAP: SURFACE BULLNOSE.
- c. EXTERNAL CORNERS: FOR PORTLAND CEMENT MORTAR INSTALLATIONS: BEAD (BULLNOSE).
- d. EXTERNAL CORNERS FOR THINSET MORTAR INSTALLATIONS: SURFACE BULLNOSE.
- e. INTERNAL CORNERS: FIELD-BUTTED SQUARE CORNERS. FOR COVED BASE AND CAP, USE ANGLE PIECES DESIGNED TO FIT WITH STRETCHER SHAPES.

2.2 INSTALLATION MATERIALS

A. CEMENTITIOUS BACKER UNITS: ANSI A118.9 OR ASTM C 1325, 1/2 INCH THICK.

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- a. C-CURE.
- b. CUSTOM BUILDING PRODUCTS.
- c. UNITED STATES GYPSUM COMPANY.

B. FIBER-CEMENT UNDERLAYMENT: ASTM C 1288, 1/2 INCH THICK.

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- a. CERTAINTED CORPORATION.
- b. JAMES HARDIE BUILDING PRODUCTS, INC.

C. LOW-EMITTING MATERIALS: ADHESIVES AND FLUID-APPLIED WATERPROOFING MEMBRANES SHALL HAVE A VOC CONTENT OF 65 G/L OR LESS.

D. LOW-EMITTING MATERIALS: ADHESIVES AND FLUID-APPLIED WATERPROOFING MEMBRANES SHALL COMPLY WITH GREEN SEAL'S GS-36 AND WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS."

E. WATERPROOFING MEMBRANES FOR THINSET INSTALLATIONS: ANSI A118.10, FABRIC-REINFORCED LIQUID-LATEX OR ELASTOMERIC POLYMER PRODUCT.

F. SETTING AND GROUTING MATERIALS: COMPLY WITH MATERIAL STANDARDS IN ANSIS' "SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE" THAT APPLY TO MATERIALS AND METHODS INDICATED.

1. THINSET MORTAR TYPE: LATEX-PORTLAND CEMENT; WHITE, UNLESS OTHERWISE INDICATED.

- a. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 - 1) CUSTOM BUILDING PRODUCTS.
 - 2) LATICRETE INTERNATIONAL, INC.
 - 3) MAPEI CORPORATION.

2. GROUT TYPE: HIGH-PERFORMANCE TILE GROUT, ANSI A118.7.

a. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- 1) CUSTOM BUILDING PRODUCTS.
- 2) LATICRETE INTERNATIONAL, INC.
- 3) MAPEI CORPORATION.

3. GROUT TYPE: WATER-CLEANABLE EPOXY, WHERE INDICATED.

a. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- 1) CUSTOM BUILDING PRODUCTS.
- 2) LATICRETE INTERNATIONAL, INC.
- 3) MAPEI CORPORATION.

PART 3 - EXECUTION

3.1 INSTALLATION

A. COMPLY WITH TCNA'S "HANDBOOK FOR CERAMIC, GLASS, AND STONE TILE INSTALLATION" FOR TCNA INSTALLATION METHODS SPECIFIED IN TILE INSTALLATION SCHEDULES. COMPLY WITH PARTS OF ANSI A108 SERIES "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT ARE REFERENCED IN TCNA INSTALLATION METHODS, ARE SPECIFIED IN TILE INSTALLATION SCHEDULES, AND APPLY TO TYPES OF SETTING AND GROUTING MATERIALS USED.

B. PERFORM CUTTING AND DRILLING OF TILE WITHOUT MARRING VISIBLE SURFACES. CAREFULLY GRIND CUT EDGES OF TILE ABUTTING TRIM, FINISH, OR BUILT-IN ITEMS FOR STRAIGHT, ALIGNED JOINTS. FIT TILE CLOSELY TO ELECTRICAL OUTLETS, PIPING, FIXTURES, AND OTHER PENETRATIONS SO PLATES, COLLARS, OR COVERS OVERLAP TILE. LAY TILE IN GRID PATTERN UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE.

C. INSTALL CEMENTITIOUS BACKER UNITS AND FIBER-CEMENT UNDERLAYMENT, AND TREAT JOINTS ACCORDING TO ANSI A108.11.

D. DO NOT INSTALL TILE OVER WATERPROOFING UNTIL WATERPROOFING HAS CURED AND BEEN TESTED TO DETERMINE THAT IT IS WATERTIGHT.

G. INTERIOR FLOOR TILE INSTALLATION METHOD(S):

1. OVER CONCRETE SUBFLOORS: TCNA F113; THINSET MORTAR. INTERIOR WALL TILE INSTALLATION METHOD(S):

1. OVER WOOD OR METAL STUDS OR FURRING:

- a. TCNA W244C OR TCNA W244F; THINSET MORTAR ON CEMENTITIOUS BACKER UNITS OR FIBER-CEMENT UNDERLAYMENT
- b. TCNA W245 OR TCNA W248; THINSET MORTAR ON GLASS-MAT, WATER-RESISTANT BACKER BOARD.

END OF SECTION 093013

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. SUBMITTALS: PRODUCT DATA AND SAMPLE.

1.2 REFERENCE STANDARDS

- A. 2016 CALIFORNIA BUILDING CODE
- B. TITLE 24 CALIFORNIA CODE OF REGULATIONS

PART 2 - PRODUCTS

2.1 GLASS, GENERAL

A. GLAZING PUBLICATIONS: COMPLY WITH PUBLISHED RECOMMENDATIONS OF GLASS PRODUCT MANUFACTURERS AND ORGANIZATIONS BELOW UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. SEE THESE PUBLICATIONS FOR GLAZING TERMS NOT OTHERWISE DEFINED IN THIS SECTION OR IN REFERENCED STANDARDS.

1. GANA PUBLICATIONS: "GLAZING MANUAL."

2. AAMA PUBLICATIONS: AAMA GDSG-1, "GLASS DESIGN FOR SLOPED GLAZING," AND AAMA TIR A7, "SLOPED GLAZING GUIDELINES."

3. IGMA PUBLICATION FOR SLOPED GLAZING: IGMA TB-3001, "GUIDELINES FOR SLOPED GLAZING."

4. IGMA PUBLICATION FOR INSULATING GLASS: SIGMA TM-3000, "NORTH AMERICAN GLAZING GUIDELINES FOR SEALED INSULATING GLASS UNITS FOR COMMERCIAL AND RESIDENTIAL USE."

B. SAFETY GLAZING: WHERE SAFETY GLAZING IS INDICATED, PROVIDE GLAZING THAT COMPLIES WITH 16 CFR 1201, CATEGORY II.

C. SAFETY GLAZING LABELING: WHERE SAFETY GLAZING IS INDICATED, PERMANENTLY MARK GLAZING WITH CERTIFICATION LABEL OF THE SGCC OR ANOTHER CERTIFICATION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION OR MANUFACTURER LABEL SHALL INDICATE MANUFACTURER'S NAME, TYPE OF GLASS, THICKNESS, AND SAFETY GLAZING STANDARD WITH WHICH GLASS COMPLIES.

D. INSULATING-GLASS CERTIFICATION PROGRAM: PERMANENTLY MARKED EITHER ON SPACERS OR ON AT LEAST ONE COMPONENT LITE OF UNITS WITH APPROPRIATE CERTIFICATION LABEL OF IGCC.

2.2 GLASS PRODUCTS

A. ANNEALED FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY-Q3.

B. FULLY TEMPERED FLOAT GLASS: ASTM C 1048, KIND FT, TYPE I, QUALITY-Q3.

C. INSULATING-GLASS UNITS: FACTORY-ASSEMBLED UNITS CONSISTING OF SEALED LITES OF GLASS SEPARATED BY A DEHYDRATED INTERSPACE, QUALIFIED ACCORDING TO ASTM E 2190.

2.3 GLAZING SEALANTS

A. GLAZING SEALANT: NEUTRAL-CURING SILICONE GLAZING SEALANT COMPLYING WITH ASTM C 920, TYPE S, GRADE NS, CLASS 25, USE NT.

1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

- a. DOW CORNING CORPORATION; DOW CORNING® 1199 SILICONE GLAZING SEALANT
- b. SIKKA CORPORATION; SIKASIL-N PLUS US.
- c. TREMCO INCORPORATED; PROGLAZE SSG.

B. LOW-EMITTING MATERIALS: SEALANTS SHALL HAVE A VOC CONTENT OF NOT MORE THAN 250 G/L.

C. LOW-EMITTING MATERIALS: SEALANTS SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS."

PART 3 - EXECUTION

3.1 INSTALLATION

A. COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS, SEALANTS, GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE CONTAINED IN GANA'S "GLAZING MANUAL."

B. FOR FIRE-PROTECTION-RATED GLAZING, USE METHODS APPROVED BY TESTING AGENCIES THAT LISTED AND LABELED PRODUCTS.

C. SET GLASS LITES IN EACH SERIES WITH UNIFORM PATTERN, DRAW, BOW, AND SIMILAR CHARACTERISTICS.

D. REMOVE NONPERMANENT LABELS, AND CLEAN SURFACES IMMEDIATELY AFTER INSTALLATION.

3.2 MONOLITHIC-GLASS TYPES

A. GLASS TYPE GL-B: CLEAR FULLY TEMPERED FLOAT GLASS.

1. THICKNESS: 6 MM.
2. SAFETY GLAZING REQUIRED.

B. GLASS TYPE GL-C: TEMPERED FROSTED GLASS.

1. THICKNESS: 6 MM.
2. FINISH: F1 (FROSTED ONE SIDE).
3. SAFETY GLAZING REQUIRED.

3.3 INSULATING-GLASS TYPES

A. GLASS TYPE GL-A: LOW-E-COATED, TINTED INSULATING GLASS.

1. OVERALL UNIT THICKNESS: 1 INCH.
2. THICKNESS OF EACH GLASS LITE: 6 MM.
3. OUTDOOR LITE: FULLY TEMPERED FLOAT GLASS.
 - a. MANUFACTURE: PPG
 - b. PRODUCT: LOE-366
 - c. INTERSPACE CONTENT: AIR
 - d. INDOOR LITE: ANNEALED FLOAT GLASS.
 - e. SAFETY GLAZING REQUIRED.

END OF SECTION 088000

SECTION 092900 - GYPSUM BOARD

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested

in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

2.2 PANEL PRODUCTS

A. Provide in maximum lengths available to minimize end-to-end butt joints.

B. Interior Gypsum Board: ASTM C 1396/C 1396M, in thickness indicated, with manufacturer's standard edges. 5/8" Type X, Type as required for specific fire-resistance-rated assemblies.

1. Manufacturers: One of the following:

- a. American Gypsum.
- b. CertainTeed Corp.
- c. Georgia-Pacific Gypsum LLC.
- d. Lafarge North America Inc.
- e. National Gypsum Company.
- f. PABCO Gypsum.
- g. Temple-Inland.
- h. USG Corporation.
- i. or approved equivalent.

2.3 ACCESSORIES

A. Trim Accessories: ASTM C 1047, formed from galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet. For exterior trim, use accessories formed from hot-dip galvanized-steel sheet, plastic, or rolled zinc.

1. Provide cornerbead at outside corners unless otherwise indicated.
2. Provide LC-bead (L-bead) at exposed panel edges.
3. Provide control joints where indicated.

B. Joint-Treatment Materials: ASTM C 475/C 475M.

1. Joint Tape: Paper unless otherwise recommended by panel manufacturer.
2. Joint Compounds: Setting-type compounds

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install gypsum board to comply with ASTM C 840.

1. Isolate gypsum board assemblies from abutting structural and masonry work. Provide edge trim and acoustical sealant.
2. Single-Layer Fastening Methods: Fasten gypsum panels to supports with screws.

B. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.

D. Finishing Gypsum Board: ASTM C 840.

1. At garage areas, unless a higher level of finish is required for fire-resistance-rated assemblies, provide Level 1 finish: Embed tape at joints.

END OF SECTION 092900

SECTION 072100 - THERMAL INSULATION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and ICC-ES evaluation reports for foam-plastic insulation.

B. Surface-Burning Characteristics: According to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

PART 2 - PRODUCTS

2.1 INSULATION PRODUCTS

A. Glass-Fiber-Blanket Insulation: ASTM C 665, Type I, unfaced with flame-spread and smoke-developed indexes of 25 and 450, respectively.

1. Manufacturers: One of the following:

- a. CertainTeed Corporation.
- b. Guardian Building Products, Inc.
- c. Johns Manville.
- d. Krauf Insulation.
- e. Owens Corning.
- f. or approved equivalent

B. Mineral-Fiber-Blanket Insulation: ASTM C 665, Type I, unfaced with flame-spread index of 25 or less.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install insulation in areas and in thicknesses indicated or required to produce R-values indicated. Cut and fit tightly around obstructions and fill voids with insulation.</

SECTION 099123 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUBMITTALS:
 1. PRODUCT DATA: INCLUDE PRINTOUT OF MPI'S "MPI APPROVED PRODUCTS LIST" WITH PRODUCT HIGHLIGHTED.
 2. SAMPLES.
- B. MOCKUPS: FULL-COAT FINISH SAMPLE OF EACH TYPE OF COATING, COLOR, AND SUBSTRATE, APPLIED WHERE DIRECTED.
- C. EXTRA MATERIALS: DELIVER TO OWNER 1 GAL. OF EACH COLOR AND TYPE OF FINISH-COAT PAINT USED ON PROJECT, IN CONTAINERS, PROPERLY LABELED AND SEALED.

PART 2 - PRODUCTS

2.1 PAINT

- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 1. BENJAMIN MOORE & CO.
 2. PPG ARCHITECTURAL FINISHES, INC.
 3. SHERWIN-WILLIAMS COMPANY (THE).
- B. MPI STANDARDS: PROVIDE MATERIALS THAT COMPLY WITH MPI STANDARDS INDICATED AND LISTED IN ITS "MPI APPROVED PRODUCTS LIST."
 1. PRIMER SEALER, INSTITUTIONAL LOW ODOR/VOC: MPI # 149.
 2. LATEX, INSTITUTIONAL LOW ODOR/VOC, FLAT (GLOSS LEVEL 1): MPI #143.
 3. LATEX, INSTITUTIONAL LOW ODOR/VOC, (GLOSS LEVEL 2): MPI #144.
 4. LATEX, INSTITUTIONAL LOW ODOR/VOC, SEMIGLOSS (GLOSS LEVEL 5): MPI #147.
- C. MATERIAL COMPATIBILITY: PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.
 1. FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.
- D. PAINTS AND COATINGS SHALL COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT:
 1. FLAT PAINTS AND COATINGS: 50 G/L.
 2. NONFLAT PAINTS, COATINGS: 150 G/L.
 3. PRIMERS, SEALERS, AND UNDERCOATERS: 200 G/L.
 4. ANTICORROSSIVE AND ANTRUST PAINTS APPLIED TO FERROUS METALS: 250G/L.
 5. FLOOR COATINGS: 100] G/L.
- E. COLORS: AS SCHEDULED.

PART 3 - EXECUTION

3.1 PREPARATION

- A. COMPLY WITH RECOMMENDATIONS IN MPI'S "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES INDICATED.
- B. REMOVE HARDWARE, LIGHTING FIXTURES, AND SIMILAR ITEMS THAT ARE NOT TO BE PAINTED. MASK ITEMS THAT CANNOT BE REMOVED. REINSTALL ITEMS IN EACH AREA AFTER PAINTING IS COMPLETE.
- C. CLEAN AND PREPARE SURFACES IN AN AREA BEFORE BEGINNING PAINTING IN THAT AREA. SCHEDULE PAINTING SO CLEANING OPERATIONS WILL NOT DAMAGE NEWLY PAINTED SURFACES.

3.2 APPLICATION

- A. COMPLY WITH RECOMMENDATIONS IN MPI'S "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES INDICATED.

SECTION 099123 - INTERIOR PAINTING (CONTINUED)

- B. PAINT EXPOSED SURFACES, NEW AND EXISTING, UNLESS OTHERWISE INDICATED.
 1. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES.
 2. PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY.
 3. PAINT THE BACK SIDE OF ACCESS PANELS.
 4. COLOR-CODE MECHANICAL PIPING IN ACCESSIBLE CEILING SPACES.
 5. DO NOT PAINT PREFINISHED ITEMS, ITEMS WITH AN INTEGRAL FINISH, OPERATING PARTS, AND LABELS UNLESS OTHERWISE INDICATED.
- C. APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 1. USE BRUSHES ONLY WHERE THE USE OF OTHER APPLICATORS IS NOT PRACTICAL.
 2. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS D CEILINGS.
- D. APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.
 1. IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE.

3.3 INTERIOR PAINT APPLICATION SCHEDULE

- A. GYPSUM BOARD:
 1. LATEX: ONE COAT OVER LATEX PRIMER/SEALER: MPI INT 9.2A.

END OF SECTION 099123

SECTION 123623.13 - PLASTIC-LAMINATE-CLAD COUNTERTOPS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUBMITTALS: SHOP DRAWINGS AND SAMPLES.
- B. INSTALLER QUALIFICATIONS: FABRICATOR OF PRODUCTS.
- C. ENVIRONMENTAL LIMITATIONS: DO NOT DELIVER OR INSTALL COUNTERTOPS UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETED, AND HVAC SYSTEM IS OPERATING.

PART 2 - PRODUCTS

2.1 PLASTIC-LAMINATE COUNTERTOPS

- A. QUALITY STANDARD: AWI, AWWAC, AND WIS "ARCHITECTURAL WOODWORK STANDARDS."
- B. PLASTIC-LAMINATE COUNTERTOPS: CUSTOM GRADE.
 1. LAMINATE GRADE: HGS FOR FLAT COUNTERTOPS, HGP FOR POST-FORMED COUNTERTOPS.
 2. GRAIN DIRECTION: PARALLEL TO CABINET FRONTS.
 3. EDGE TREATMENT: SAME AS LAMINATE CLADDING ON HORIZONTAL SURFACES.

2.2 MATERIALS

- A. WOOD MOISTURE CONTENT: 5 TO 10 PERCENT.
- B. MEDIUM-DENSITY FIBERBOARD: ANSI A208.2, GRADE 130], MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
- C. PARTICLEBOARD: ANSI A208.1, GRADE M-2, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
- D. SOFTWOOD PLYWOOD: DOC PS 1.
- E. HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD 3.
 1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 - a. ABET LAMINATI INC.
 - b. FORMICA CORPORATION.
 - c. LAMIN-ART, INC.
 - d. PIONITE: A PANOLAM INDUSTRIES INTERNATIONAL, INC. BRAND.
 - e. WILSONART INTERNATIONAL HOLDINGS, INC.
- F. GROMMETS FOR CABLE PASSAGE THROUGH COUNTERTOPS: 1-1/4-INCH OD, MOLDED-PLASTIC GROMMETS AND MATCHING PLASTIC CAPS WITH SLOT FOR WIRE PASSAGE.
 1. PRODUCT: "OG SERIES" BY DOUG MOCKETT & COMPANY, INC.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. INSTALL COUNTERTOPS TO COMPLY WITH REFERENCED QUALITY STANDARD FOR GRADE SPECIFIED.
- B. INSTALL COUNTERTOPS LEVEL, PLUMB, TRUE, AND STRAIGHT. SHIM AS REQUIRED WITH CONCEALED SHIMS. INSTALL LEVEL AND PLUMB TO A TOLERANCE OF 1/8 INCH IN 96 INCHES.
- C. SCRIBE AND CUT COUNTERTOPS TO FIT ADJOINING WORK. REFINISH CUT SURFACES, AND REPAIR DAMAGED FINISH AT CUTS.
- D. ANCHOR COUNTERTOPS SECURELY TO BASE UNITS. SEAL SPACE BETWEEN BACKSPLASH AND WALL.

END OF SECTION 123623.13

SECTION 123653 - EPOXY RESIN COUNTERTOPS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 1. Epoxy resin worksurfaces and sink.
 2. Setting materials.
- B. Related Sections:
 1. Section 064116 - Architectural Wood Cabinets Base cabinets.

1.2 REFERENCES

- A. ASTM International (ASTM):
 1. D570 - Standard Test Method for Water Absorption of Plastics.
 2. D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
 3. D646 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in edgewise Position.
 4. D695 - Standard Test Method for Compressive Properties of Rigid Plastics.
 5. D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between 300 C and 300 C With a Vitreous Silica Dilatometer.
 6. D785 - Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials.
 7. D790 - Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 8. D792 - Standard Test Method for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
 9. D3801 - Standard Test Method for Measuring the Comparative Burning Characteristics of Solid Plastics in a Vertical Position.
 10. E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

B. GREENGUARD Environmental Institute (GREENGUARD):

- A. International Quality Certification Program.
- C. International Organization for Standardization (ISO) 9001 - Quality Management Systems - Requirements.
- D. NSF International / American National Standards Institute (NSF/ANSI) - 51 - Food Equipment Materials.
- E. Scientific Certification Systems (SCS) - Recycled Content Certifications.
- F. Scientific Equipment and Furniture Association (SEFA) 3 - Work Surfaces.

1.3 SUBMITTALS

- A. Submittals for Review:
 1. Shop Drawings:
 - a. Submit plan, section, elevation and perspective drawings necessary to describe and convey layout, profiles, and product components, including edge conditions, joints, fitting and fixture locations, anchorage, accessories, and finish colors.
 - b. Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on Shop Drawings.
 - c. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
 2. Product Data: Manufacturer's data sheets on each product to be used, including:
 - a. Preparation instructions and recommendations.
 - b. Storage and handling requirements and recommendations.
 - c. Installation methods.
 3. Samples:
 - a. Selection samples: For each finish product specified, submit complete set of color chips representing manufacturer's full range of standard colors.
 - b. Verification samples: For each finish product specified, submit samples representing actual product color; supplied product color and gloss may vary slightly from supplied samples.
- B. Quality Control Submittals:
 1. Test Reports: Certified test reports or recognized evaluation reports showing compliance with specified performance characteristics and physical properties.
- C. Sustainable Design Submittals:
 1. Recycled Content: Certify percentages of post-consumer and pre-consumer recycled content.
 2. Regional Materials: Certify products extracted, processed, and manufactured within 500 mile radius of Project site.
 3. Low-Emitting Materials: Certify volatile organic compound (VOC) content.
- D. Closeout Submittals:
 1. Maintenance Data:
 - a. Provide maintenance, cleaning, and life cycle information.
 - b. Include recommended cleaning materials and procedures, and list of materials detrimental to epoxy resin.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 1. Primary products furnished by single manufacturer with minimum 10 years experience in work of this Section.
 2. Products manufactured in ISO 9001 certified facility.
- B. Installer Qualifications: Minimum 5 years experience in work of this Section.
- C. Mockup:
 1. Construct worksurface mockup, 5 feet wide x full depth.
 2. Include worksurface, backsplash and trim.
 3. Locate in Fingerprint Room at plan west wall.
 4. Approved mockup may remain as part of the Work.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery:
 1. Use pallets larger than sheets during transportation.
 2. Package materials to prevent damage during shipping and handling.
- B. Storage:
 1. Store products in enclosed area protected from ultraviolet.
 2. Store products in manufacturer's unopened packaging until ready for installation.
 3. Store panels using protective dividers to avoid damage to surfaces.
 4. For horizontal storage, store sheets on pallets of equal or greater size than sheets with protective layer between pallet and sheet and on top of uppermost sheet. Do not store sheets or fabricated panels vertically.
 5. Handling:
 1. If protective film is provided, do not remove until panel has been installed.
 2. Handle sheets to prevent damage.
 3. Remove stickers immediately after installation.

1.6 PROJECT CONDITIONS

- A. Do not install products under environmental conditions outside manufacturer's limits.
- B. Avoid direct exposure of products to sunlight.
- C. Do not use worksurfaces as bench, ladder, or seating.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Durcon, Incorporated, 206 Allison Drive, Taylor, TX 76774, 512-695-8000, [HYPERLINK "http://www.durcon.com" h www.durcon.com](http://www.durcon.com).
- B. Substitutions: Not permitted.

2.2 MATERIALS

- A. Solid Epoxy Resin:
 1. Sheets cast from modified epoxy resin and non-astbestos inert fillers; compounded mixture cured and theroset specifically from formulation to provide exceptional physical and chemical resistance required in medium to heavy duty laboratory environments.
 2. Sheets monolithic throughout without surface coating application.
 3. Certified to NSF/ANSI 51.
 4. Certified by GREENGUARD under Indoor Air Quality and Children and Schools Certification Programs.
 5. Physical properties; minimum acceptable physical performance in accordance with SEFA 3 testing procedures:
 - a. Density/specific gravity: Tested to ASTM D792; minimum test rating of 134.8 PSF or 2.16 g/cm.
 - b. Rockwell hardness: Tested to ASTM D785; minimum M scale rating of 110.
 - c. Fire resistance: tested to ASTM D635; classified as self-extinguishing.
 - d. Surface burning characteristics: Tested to ASTM E84; flame spread index 7.4 and smoke develop index of 221.2.
 - e. Surface burning characteristics in vertical position: Tested to ASTM D3801; maximum flame spread index of 7.4 and smoke developed index of 221.2.
 - f. Coefficient of linear thermal expansion: Tested to ASTM D696; rating of 2.46 x 10-5.
 - g. Heat deflection: Tested to ASTM D648; maximum 205 degrees F or 96 degrees C.
 - h. Flexural strength: Tested to ASTM D790; minimum rating 14.9 KPSI or 103 Mpa.
 - i. Flexural modulus: Tested to ASTM D790; 2,777,501 PSI or 19.2 Gpa.
 - j. Water absorption, 24 hours: tested to ASTM D570; maximum 0.008 percent by weight.
 - k. Compression strength: Tested to ASTM D695; minimum 38.4 kpsi or 265 Mpa.
 - l. Chemical resistance; minimum acceptable chemical resistance performance in accordance with SEFA 3:

SECTION 123653 - EPOXY RESIN COUNTERTOPS (CONTINUED)

Reagent Tested Method Rating

- Testing Method Descriptions:
 - Method A - Volatile chemicals (organic solvents): Cotton ball saturated with test reagent is placed in one-ounce bottle (20 x 75mm test tube or similar container) with reservoir of liquid above ball. Container is inverted on test material for period of 24 hours at standard temperature 23 degrees C plus or minus 2 degrees C (73 degrees F plus or minus 4 degrees F).
 - Method B - Non Volatile Chemicals: Five drops (1/4 cc) of test reagent are placed on test material surface. Reagent is then covered with watch glass (25 mm) for period of no less than 24 hours at standard temperature of 23 degrees C plus or minus 2 degrees C (73 degrees F plus or minus 4 degrees F).

Result Definitions:

- 0 - No Effect: No detectable change in material surface.
- 1 - Good: Slight detectable change in color or gloss but no change to function or life of work surface material.
- 2 - Fair: Slight surface etching or severe staining. Clearly discernable change in color or gloss but no significant impairment of surface life or function.
- 3 - Poor: Pitting, cratering or erosion of work surface material; obvious and significant deterioration. Objectable change in appearance due to surface discoloration.

- 6. Color: Black Onyx.

2.3 ACCESSORIES

- A. Installation Materials: Manufacturer's joint adhesive, panel adhesive, and sealants as required to suit project conditions.

2.4 FABRICATION

- A. Fabricated tops and accessories in accordance with manufacturer's recommendations, approved Shop Drawings, and SEFA 3.

B. Epoxy Resin Worksurfaces:

- 1. Thickness:
 - a. 3/4 inches unless otherwise indicated.
 - b. Check each sheet at factory for required thickness.
 - c. Maximum variation in thickness: plus or minus 1/16 inch (1.6 mm) from corner to corner.
- 2. Warpage:
 - a. Inspect tops for warpage prior to fabrication by placing on true flat surface.
 - b. Maximum allowable warpage: 1/16 inch (1.5 mm) in 36 inch (900 mm) span or 3/16 inch (4.5 mm) in 96 inch (2400 mm) span.
- 3. Fabrication:
 - a. Shop fabricate in longest practical lengths.
 - b. Bond joints with highly chemical resistant cement with properties and color similar to base material.
 - c. Provide 1/8 inch (3 mm) drip groove at underside of exposed edges, set back 1/2 inch (13 mm) from face.
 - d. Finish exposed edges.
 - e. Fabricate tops flat with 1/4 inch raised marine edge.
 - f. Edge treatment: Standard 1/4 inch radius edge.
 - g. Corner treatment: exposed corners shall be eased slightly for safety.
 - h. Back and end splashes:
 - a. Supplied loose for field installation.
 - b. Same material and thickness as worksurfaces.
 - c. 12 inches high unless otherwise indicated.
 - d. Top-mounted end splash where worksurfaces abut adjacent construction at and locations indicated on Drawings.
 - i. Joints: Maximum 1/8 inch, bonded with epoxy grout.
 - j. Make joints between two benches level.
 - k. Locate joints away from sinks and over or near supports.
 - l. Sink cutouts: As indicated on Drawings. Routed for undermount sink.
 - m. Allowable tolerances:
 - a. Square: Plus or minus 1/64 inch (0.4 mm) for each 12 inches (300 mm) of length.
 - b. Location of cutouts and drilled openings: Plus or minus 1/8 inch (3 mm) of design dimension.
 - c. Size of cutouts and drilled openings: Plus 1/8 inch (3 mm) or minus 0 inches (0 mm).
- Epoxy Resin Sinks:
 1. Mold sinks from thermosetting epoxy resin.
 2. Mold interior corners to radius. Slope sink base to drain outlet.
 3. Provide 1-1/2 inch (38 mm) outlet with open ended standpipe; standpipe overflow 2 inches (50 mm) shorter than depth of sink.
 4. Unless otherwise indicated, fabricate sinks of drop-in design supported by upper flange from worksurface.
 5. Color: To match adjacent worksurface.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until cabinets have been installed.
- B. Confirm that surfaces to receive tops are plumb and level, with maximum deflection of 1/4 inch (6 mm) in 20 feet (6 m).

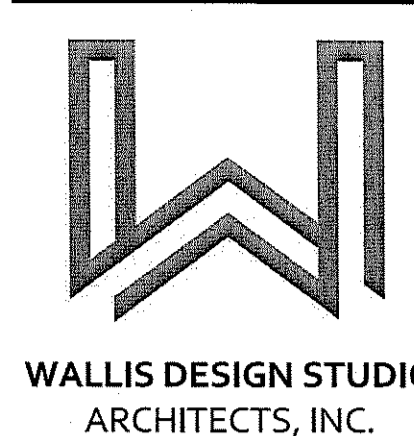
3.2 PREPARATION

- A. Clean surfaces just prior to installation.
- B. Prepare surfaces using methods recommended by manufacturer.
- 3.3 INSTALLATION
 - A. Install in accordance with manufacturer's instructions and approved Shop Drawings.
 - B. Install tops plumb and level.
 - C. Scribe to adjacent surfaces in accordance with manufacturer's recommendations.
 - D. Fasten tops to supporting construction with adhesives appropriate for use with adjoining construction and as recommended by manufacturer.
 - E. Form field joints using manufacturer's recommended adhesive. Form joints to be inconspicuous and nonporous.
 - F. Install [laboratory shelving] [laboratory fume hood base work surfaces] [pegboards] [reagent racks] using fasteners and adhesive appropriate for use with adjoining construction and as recommended by manufacturer.

3.4 PROTECTION

- A. Protect installed products until completion of Project.
- B. Touch up, repair, or replace damaged products.

END OF SECTION 123653



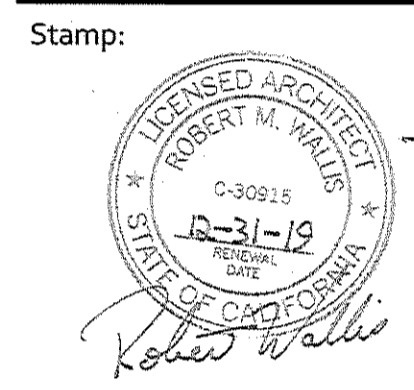
149 Crown Point Ct., Suite C
Gross Point, CA 95945
(530) 264-7010
WallisDesignStudio.com

Sheriff
Property
Unit

NC Facilities
Management

15076 State Highway 49
Nevada City, California 95959
APN: 05-040-03

PERMIT DOCUMENTS



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Consultant:

Proj. No.: 2018006

Date: 12/11/2018

Scale: 1" = 1'-0"

Drawn By: JMT

Revisions:

No.	Description	Date

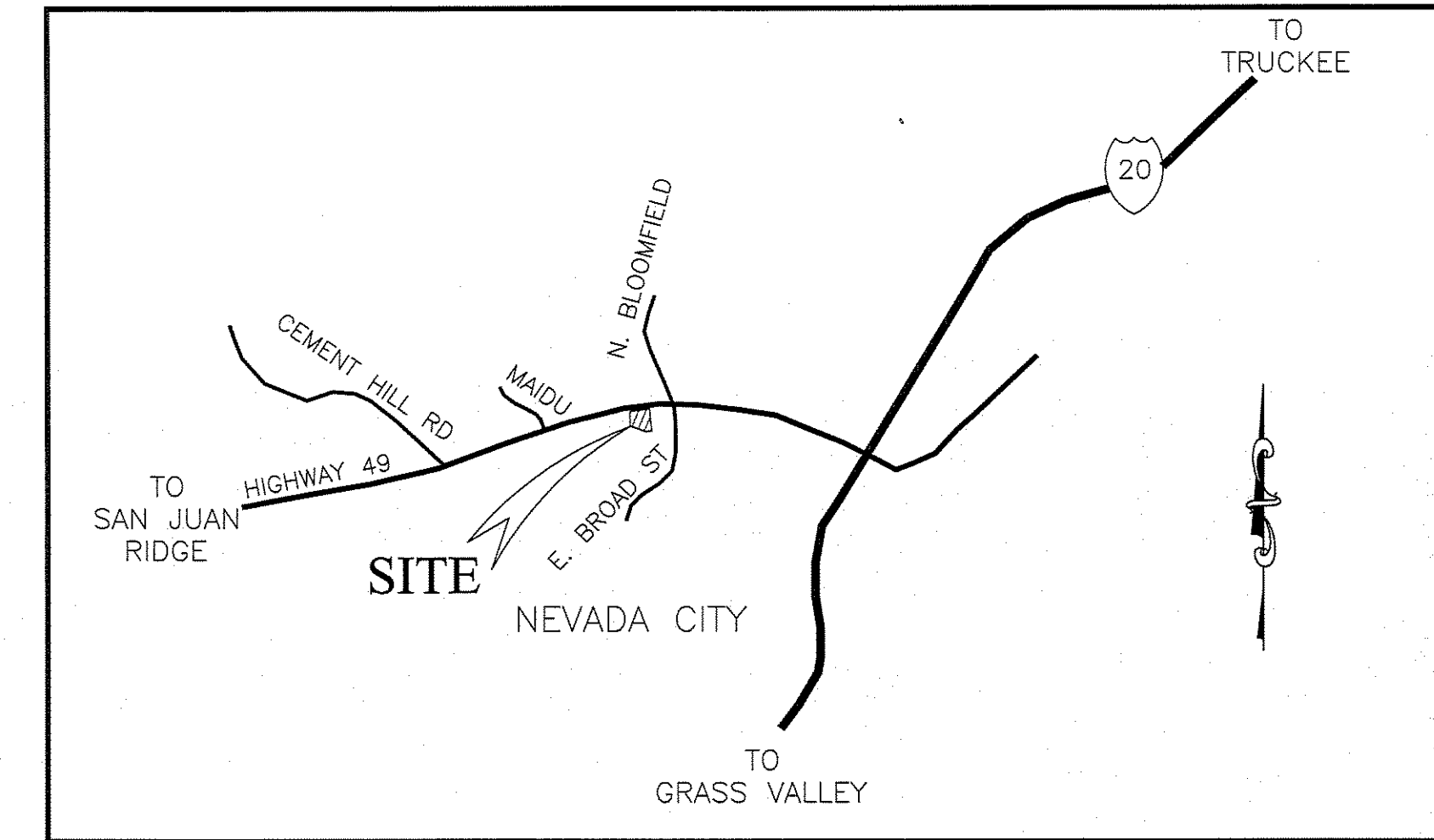
Drawing Title:

SHEET
SPECIFICATION
JOB SET

Drawing Number:

A0.9

IMPROVEMENT PLANS FOR:
NEVADA COUNTY SHERIFF ADA RETROFIT
 15076 STATE HIGHWAY 49, NEVADA CITY, CALIFORNIA
 APN 05-040-03



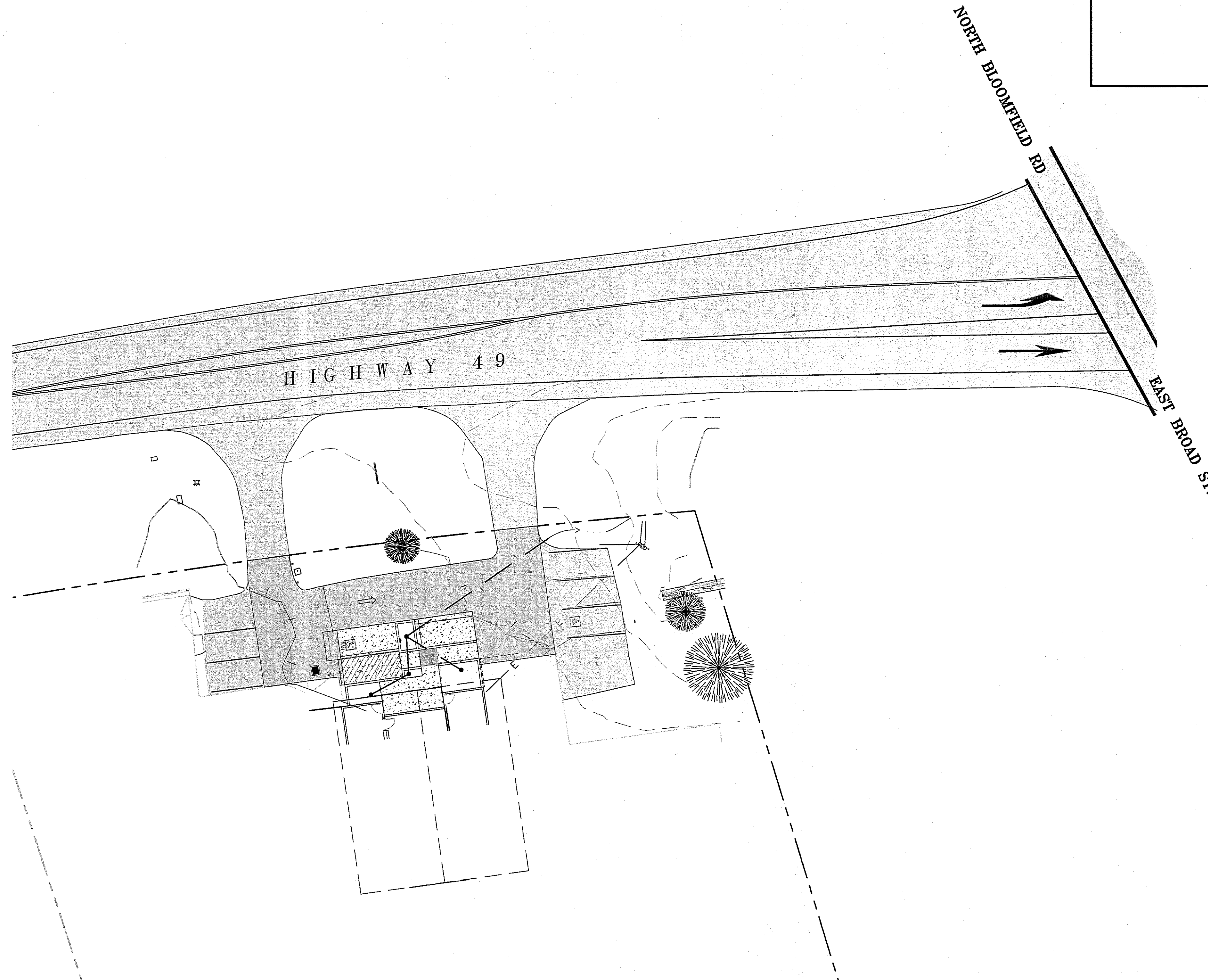
VICINITY MAP
 N.T.S.

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
BC	BEGIN CURVE
BOW	BACK OF WALK
C	CONCRETE
CB	CATCH BASIN
CL	CENTERLINE
CR	CURB RETURN
DET	DETAIL
DI	DRAINAGE INLET
EG	EXISTING GROUND
EP	EDGE OF PAVEMENT
(E)	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
FR	FIBER ROLLS
G	GAS
HP	HIGH POINT
IE	INVERT ELEVATION
JT	JOINT TRENCH
LP	LOW POINT
P	PAVING
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SL	STREET LIGHT
STND.	STANDARD
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
TC	TOP OF CURB
TOW	TOP OF WALL
TYP	TYPICAL
W	WATER

SHEET INDEX

1	COVER SHEET
2	NOTES
3	EXISTING TOPOGRAPHY AND DEMOLITION PLAN
4	GRADING AND DRAINAGE PLAN
5	DETAILS



OVERALL SITE PLAN
 SCALE: 1"=20'

BASIS OF ELEVATIONS

ELEVATIONS ARE ASSUMED AND ARE FROM A FIELD SURVEY CONDUCTED ON SEPTEMBER 19, 2018.

PROJECT INFORMATION

OWNER/DEVELOPER:
 COUNTY OF NEVADA

CONTACT: JUSTIN DRINKWATER
 PHONE: (530) 470-2637
 EMAIL: JUSTIN.DRINKWATER@CO.NEVADA.CA.US

CIVIL ENGINEERING:

SCO PLANNING & ENGINEERING, INC.
 140 LITTON DRIVE, SUITE 240
 GRASS VALLEY, CA 95645
 (530) 272-5841
 CONTACTS: STEVEN KLINE, P.E.
 EMAIL: STEVE@SCOPEINC.NET

WATER:

NEVADA IRRIGATION DISTRICT (N.I.D.)
 SHANNON WOOD - BUSINESS COORDINATOR
 (530) 271-6840

SEWAGE DISPOSAL:

CITY OF NEVADA COUNTY

ELECTRIC/GAS UTILITIES:

PACIFIC GAS AND ELECTRIC COMPANY
 788 TAYLORVILLE RD
 GRASS VALLEY, CA
 (530) 477-3245
 CONTACT: LEE WELLS

TELEPHONE:

AT&T
 530 FREEMAN LANE
 GRASS VALLEY, CA 95949
 (530) 477-3027
 CONTACT: R. D. (BOB) JASPER

PROPERTY ADDRESS

15076 STATE HIGHWAY 49,
 NEVADA CITY, CA 95959

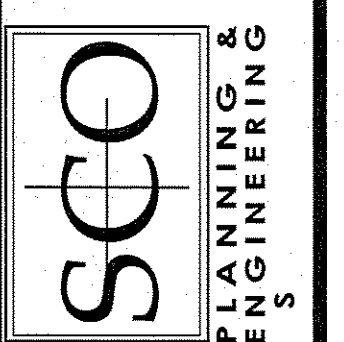
APN
 05-040-03



DATE SIGNED: 2-5-2019

DESIGNED: NJB
DRAWN: NJB
PROJ. NO: 201810
DATE: NOVEMBER, 2018
NO. REVISIONS
DATE

NEVADA COUNTY SHERIFF ADA RETROFIT
 COVER SHEET
 CALIFORNIA
 NEVADA CITY



GRASS VALLEY (530) 272-5841
 TRUCKEE (530) 465-4043
 FAX (530) 272-6880

1 OF 5

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS ON LANDS OF THE OWNER, NEVADA COUNTY, IN EASEMENTS OBTAINED FROM THE CITY OR PUBLIC AGENCIES. THE CONTRACTOR SHALL OBTAIN THE REQUIRED ENCROACHMENT PERMITS FROM THE APPROPRIATE PUBLIC AGENCIES. WHERE WORK IS LOCATED IN EASEMENTS TRAVERSING LANDS OTHER THAN THOSE OF THE COUNTY, THE CONTRACTOR SHALL MAKE ALL APPROPRIATE NOTIFICATIONS AND CONFINE HIS/HER OPERATIONS WITHIN THE EASEMENT BOUNDARIES.
2. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES. HOWEVER, THE DESIGN ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CALL U.S.A. UNDERGROUND SERVICE ALERT AT 811, OR 1-800-227-2600 AND HAVE UTILITIES MARKED AT LEAST 72 HOURS BEFORE BEGINNING WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE DESIGN ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. IF SO DIRECTED BY THE DESIGN ENGINEER, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY UNTIL REMEDIAL ACTION CAN BE TAKEN. ANY COST RESULTING FROM THE CONTRACTORS FAILURE TO REPORT FAILURE TO STOP WORK AS DIRECTED, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS, IF REVISIONS ARE NECESSARY BECAUSE OF THE LOCATION OF EXISTING UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING PUBLIC AND PRIVATE IMPROVEMENTS. ANY DAMAGED IMPROVEMENTS SHALL BE REPLACED BY THE CONTRACTOR TO EQUAL OR BETTER THAN PRE-PROJECT CONDITIONS INCLUDING, BUT NOT LIMITED TO, ROADWAYS, DRAINAGE STRUCTURES, DRIVEWAYS, AND UTILITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS AND REGULATIONS OF ANY JURISDICTIONAL BODY. FOR INFORMATION CONTACT THE STATE INDUSTRIAL SAFETY DEPT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS AND MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. PRIOR TO ANY CORRECTIVE ACTION BY THE CONTRACTOR WHICH IS NECESSARY DUE TO STAKING ERRORS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER FOR VERIFICATION AND RESTAKING.
8. WHEN THE CONTRACTOR'S OPERATIONS TEMPORARILY INTERFERE WITH THE EXISTING FLOW OF SEWAGE, WATER, GAS, ELECTRICITY, TELEPHONE COMMUNICATION, OR THE OPERATION OF ANY OTHER FACILITY, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AGENCY/UTILITY AT LEAST THREE (3) DAYS PRIOR TO THE INTERFERENCE, AND PROVIDE OR MAKE ARRANGEMENTS FOR SATISFACTORY BYPASS FACILITIES.
9. THE CONTRACTOR SHALL REQUEST PERMISSION TO INTERFERE WITH SAID UTILITIES BY APPLYING TO THE RELATED UTILITY AND SHALL COMPLY WITH THEIR RECOMMENDATIONS AND ORDINANCES IN EACH CASE. SAID BYPASS FACILITIES SHALL BE SO CONSTRUCTED AS TO PROVIDE A NON-INTERRUPTIVE SERVICE OF SAID UTILITY.
10. IF BYPASS FACILITIES ARE NOT FEASIBLE OR REASONABLE, AS DETERMINED BY THE ENGINEER, THE RESIDENTS AND/OR OWNERS OF ALL PROPERTIES AFFECTED BY A TEMPORARY INTERRUPTION (LESS THAN 8 HOURS) MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE INTERRUPTION BY THE CONTRACTOR.
11. ALL INSTALLATIONS SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS AND GUIDELINES UNLESS OTHERWISE NOTED ON THE PLANS. MANUFACTURERS INSTALLATION GUIDELINES SHALL BE ON CONSTRUCTION SITE AT ALL TIMES.
12. DURING THE PROGRESS OF THE WORK, THE CONTRACTOR SHALL KEEP THE ENTIRE JOB SITE IN A CLEAN AND ORDERLY CONDITION. EXCESS UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE JOB SITE. SPILLAGE RESULTING FROM CONTRACTOR'S ACTIVITY SHALL BE REMOVED BY THE CONTRACTOR. ALL GUTTERS AND ROADSIDE DITCHES SHALL BE KEPT FREE AND CLEAR FROM OBSTRUCTIONS. ANY DEVIATION FROM THE ABOVE PRACTICE SHALL HAVE PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
13. THE CONTRACTOR SHALL PROVIDE ONE COMPLETE SET OF AS-BUILT CHANGES. THE CHANGES SHALL BE PLACED ON A CLEAN SET OF BLUELINE DRAWINGS IN RED AND GIVEN TO THE DESIGN ENGINEER AT JOB COMPLETION.
14. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, PROVIDE ALL PERMITS, CERTIFICATES AND LICENSES REQUIRED BY LAW.
15. WHEN TRANSPORTING ANY MATERIAL DURING CONSTRUCTION, CARE SHOULD BE TAKEN TO PREVENT MATERIAL FROM BLOWING OR SPILLING ONTO STREETS AND HIGHWAYS. EARTHEN MATERIAL, IF TRANSPORTED, SHALL BE ADEQUATELY SPRAYED WITH WATER PRIOR TO TRANSPORT ONTO PUBLIC ROADS. VEGETATIVE MATERIAL SHALL BE COVERED OR TARPED PRIOR TO TRANSPORT.
16. INERT WASTE SUCH AS CONCRETE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
17. TOXIC WASTE (PETROLEUM AND OTHER CHEMICAL PRODUCTS), IF ENCOUNTERED, SHALL BE IDENTIFIED, SEPARATED AND DELIVERED TO THE PROPER LANDFILL AREA.
18. THE CONTRACTOR SHALL CHIP OR HAUL TO AN APPROVED DUMP SITE OR LANDFILL. ALL CLEARED VEGETATION.
19. ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
20. SHOP DRAWINGS - THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AS MAY BE NECESSARY FOR THE PROSECUTION OF THE WORK, AS REQUIRED BY THESE NOTES. THE ENGINEER SHALL PROMPTLY REVIEW ALL SHOP DRAWINGS. THE ENGINEER'S REVIEW OF ANY SHOP DRAWING SHALL NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS.
21. MATERIALS, SERVICES AND FACILITIES - MATERIALS AND EQUIPMENT SHALL BE SO STORED AS TO INSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK. STORED MATERIALS AND EQUIPMENT TO BE INCORPORATED IN THE WORK SHALL BE LOCATED SO AS TO FACILITATE PROMPT INSPECTION.
22. ALL MATERIAL SHALL BE UNLOADED, STORED, LOWERED INTO THE TRENCH AND JOINED, USING SUITABLE TOOLS AND EQUIPMENT AND IN A MANNER THAT WILL PREVENT DAMAGE TO THE MATERIAL, JOINTS, COATING, OR LINING. STORAGE AND HANDLING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
23. DAMAGED MATERIAL WILL BE REJECTED. THE CONTRACTOR SHALL CLEARLY MARK THE REJECTED MATERIAL AND REMOVE IT FROM THE IMMEDIATE CONSTRUCTION AREA. WHEN APPROVED BY THE ENGINEER, DAMAGED MATERIAL MAY BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND USED IN THE CONSTRUCTION. REPLACEMENT OR REPAIR OF REJECTED MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT NO EXPENSE TO THE OWNER.
24. INSPECTION AND TESTING - ALL MATERIALS MAY BE INSPECTED, SAMPLED AND TESTED BY THE OWNER. THE CONTRACTOR SHALL GIVE SUFFICIENT ADVANCE NOTICE OF PLACING OF ORDER TO PERMIT TESTS TO BE COMPLETED BEFORE THE MATERIALS ARE INCORPORATED IN THE WORK AND HE SHALL AFFORD SUCH FACILITIES AS THE OWNER MAY REQUIRE FOR COLLECTING AND MAKING INSPECTIONS. ALL SAMPLES SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE OWNER. THE OWNER MAY WAIVE SAMPLING AND TESTING IF ADEQUATE INFORMATION, PROPERLY CERTIFIED, IS AVAILABLE TO INDICATE THAT MATERIALS COMPLY WITH TERMS OF THE SPECIFICATIONS.
25. THE CONTRACTOR SHALL FURNISH THE OWNER WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER OR NOT THE WORK AS PERFORMED IS IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE CONTRACT. IF THE OWNER REQUESTS IT, THE CONTRACTOR AT ANY TIME BEFORE ACCEPTANCE OF THE WORK SHALL REMOVE OR UNCOVER SUCH PORTIONS OF THE FINISHED WORK AS MAY BE DIRECTED. AFTER EXAMINATION, THE CONTRACTOR SHALL RESTORE SAID PORTIONS OF THE WORK TO THE STANDARDS REQUIRED BY THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
26. WATER AND POLLUTION - THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS PERTAINING TO WATER POLLUTION AND SOIL EROSION INCLUDING THE PAYMENT OF ANY FINES OR PENALTIES IMPOSED BY ANY GOVERNMENT AGENCY AS A RESULT OF WORK PERFORMED BY THE CONTRACTOR.
27. THE CONTRACTOR SHALL COMPLY WITH ALL AIR POLLUTION CONTROL RULES, REGULATIONS, ORDINANCES AND STATUTES WHICH APPLY TO THE WORK AREA. NEVADA COUNTY AIR POLLUTION CONTROL OFFICE CAN BE CONTACTED AT TELEPHONE 916-265-1398.
28. CONSTRUCTION SAFETY - THE CONTRACTOR SHALL FOLLOW CONSTRUCTION PROCEDURES NECESSARY TO PROVIDE A SAFE WORKING CONDITION THROUGH ALL PHASES OF THE PROJECT. SAID PROCEDURES SHALL CONFORM TO THE SAFETY ORDERS, DIVISION OF INDUSTRIAL SAFETY, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE AND ALL OTHER PROVISIONS REQUIRED BY FEDERAL, STATE AND COUNTY LAW OR ORDINANCE.
29. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OUTLINING THE SAFETY PROCEDURES TO BE FOLLOWED BY ITS WORKMEN, ALL SUBCONTRACTORS, AND RELATED TRADES WORKING ON ITS JOBS AND EFFECTIVELY ASSURING COMPLIANCE WITH SUCH PROCEDURES. IT SHALL ALWAYS PROVIDE FOR THE SAFETY OF THE PUBLIC BOTH DAY AND NIGHT WHERE THEY ARE EXPOSED TO ITS CONSTRUCTION OPERATION.
30. PROJECT CLEANUP AND FINISHING - THE CONTRACTOR SHALL REMOVE FROM THE VICINITY OF THE COMPLETED WORK ALL RUBBISH, UNUSED MATERIAL, FORMS, CONSTRUCTION STAKES, ETC. BELONGING TO HIM OR USED UNDER HIS DIRECTION DURING CONSTRUCTION. THE WORK SHALL BE LEFT IN A NEAT AND PRESENTABLE MANNER AT ALL TIMES INsofar AS CONSTRUCTION CONDITIONS PERMIT. AS PORTIONS OF THE WORK ARE COMPLETED, THE CONTRACTOR SHALL CLEAN THE INDIVIDUAL SITES.

31. TOUCHUP AND REPAIR - THE CONTRACTOR SHALL TOUCHUP OR REPAIR ALL FINISHED SURFACES ON STRUCTURES, EQUIPMENT, FIXTURES, OR WHATEVER, THAT HAVE BEEN DAMAGED PRIOR TO FINAL ACCEPTANCE. SURFACE ON WHICH SUCH TOUCHUP OR REPAIR CANNOT BE SUCCESSFULLY ACCOMPLISHED SHALL BE COMPLETELY REFINISHED OR IN THE CASE OF HARDWARE AND SIMILAR SMALL ITEMS, THE ITEMS SHALL BE REPLACED.
32. CEMENT MATERIALS - PORTLAND CEMENT SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR TYPE "I" PORTLAND CEMENT OF THE AMERICAN SOCIETY FOR TESTING MATERIALS. ALL CEMENT SHALL BE OF THE SAME BRAND.
33. UNLESS OTHERWISE SPECIFIED HEREIN, CEMENT GROUT OR MORTAR SHALL BE COMPOSED OF ONE PART CEMENT TO TWO PARTS FINE AGGREGATE MIXED WITH WATER IN A MECHANICAL BATCH MIXER TO PRODUCE A PLASTIC WORKABLE MIXTURE.
34. STEEL REINFORCEMENT - THE CONTRACTOR SHALL FURNISH AND PLACE ALL STEEL REINFORCEMENT OF THE SIZES AND SHAPES AS SHOWN ON THE PLANS OR SPECIFIED HEREIN. MATERIAL AND PLACEMENT SHALL CONFORM TO REQUIREMENTS OF SECTION 52 OF STANDARD SPECIFICATIONS. STEEL SHALL BE A.S.T.M. #615, GRADE 40 UNLESS CALLED OUT OTHERWISE ON THE DRAWINGS.
35. FORM AND FORMWORK - THE FORMS SHALL BE SMOOTH, MORTARTIGHT, TRUE TO THE REQUIRED LINES AND GRADES, AND OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE FRESH CONCRETE WITHOUT SPRINGING OUT OF SHAPE OR APPRECIABLE DEFLECTION DURING THE PLANING OF THE CONCRETE. ALL EXPOSED SHARP EDGES SHALL BE CHAMFERED WITH TRIANGULAR FILLETS NOT LESS THAN 0.75" BY 0.75", UNLESS OTHERWISE SHOWN ON THE PLANS. FORMS PREVIOUSLY USED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, MORTAR AND FOREIGN MATTER BEFORE BEING REUSED.
36. INSERTS - THE CONTRACTOR SHALL, BEFORE PLACING CONCRETE, MAKE PROVISION FOR ALL CORED HOLES, HANGERS, ANCHOR AND OTHER BOLTS, CONDUITS, PIPES, WATER SEALS AND OTHER INSERTS TO BE PLACED IN THE CONCRETE. HE SHALL VERIFY THE LOCATIONS AND DETAILS OF ALL SUCH WORK AND SHALL PREVENT THE DISTURBANCE OF SUCH INSERTS DURING THE PLACING OF THE CONCRETE.
37. IF ANY EXISTING FACILITIES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR AT NO COST TO THE OWNER.
38. THAT PRIOR TO ANY WORK BEING CONDUCTED WITHIN THE STATE, COUNTY OR CITY RIGHT OF WAY, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE APPROPRIATE AGENCY.
39. ALTERNATIVES TO DIESEL GENERATOR SETS (SUCH AS GRID POWER) SHALL BE USED FOR ON-SITE ELECTRICAL NEEDS DURING CONSTRUCTION, UNLESS DEEMED INFEASIBLE BY THE AIR POLLUTION CONTROL OFFICER AND STATED IN WRITING.
40. IF GRADING OR OTHER CONSTRUCTION OPERATIONS UNEARTH ARCHEOLOGICAL OR HISTORICAL ARTIFACTS OF RESOURCES, CONSTRUCTION ACTIVITIES SHALL CEASE. THE PLANNING DEPARTMENT SHALL BE NOTIFIED OF THE EXTENT AND LOCATION OF DISCOVERED MATERIALS SO THAT THEY MAY BE RECORDED BY A QUALIFIED ARCHAEOLOGIST. DISPOSITION OF ARTIFACTS SHALL COMPLY WITH STATE AND FEDERAL LAWS.
41. PRIOR TO FINAL PREPARATION OF THE SUBGRADE AND PLACEMENT OF PAVEMENT BASE MATERIALS, ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEHIND THE HARDSCAPE IMPROVEMENT. PUBLIC UTILITIES, CABLE TV, SANITARY SEWERS, AND WATER LINES, SHALL BE INSTALLED IN A MANNER WHICH WILL NOT DISTURB THE STREET PAVEMENT, CURB, GUTTER AND SIDEWALK, WHEN FUTURE SERVICE CONNECTIONS OR EXTENSIONS ARE MADE.
42. IF GRADING IS TO TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 15, BOTH TEMPORARY AND PERMANENT EROSION CONTROL PLANS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL ALONG WITH THE GRADING PLAN. PERMANENT EROSION CONTROL MEASURES SHALL INCLUDE TREATMENT ALL GRADED SLOPES WITHIN 60 DAYS OF COMPLETION OF GRADING. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OCTOBER 15.

EARTHWORK AND GRADING NOTES

1. NO CLASSIFICATION OF MATERIAL TO BE EXCAVATED IS MADE WITH THESE PLANS AND SPECIFICATIONS. EXCAVATION SHALL INCLUDE THE REMOVAL AND SUBSEQUENT HANDLING OF ALL EARTH, GRAVEL, ROCK, OR OTHER MATERIAL ENCOUNTERED REGARDLESS OF THE TYPE, CHARACTER, COMPOSITION, OR CONDITION OF THE MATERIAL IN ACCORDANCE WITH THESE NOTES AND APPLICABLE LAWS AND CODES.
2. GRADING - FINISH GRADES AND EXISTING OR NATURAL GRADES ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL DO ALL GRADING, FILLING-IN OR EXCAVATING AS REQUIRED TO COMPLETELY GRADE THE SITE TO LINES AND GRADES SHOWN, AND TO PROVIDE FOR THE INDICATED DRAINAGE. WHERE FINISH GRADE CORRESPONDS PRACTICALLY WITH EXISTING GRADE, THE GROUND SHALL BE WORKED UP AND GRADED OFF EVENLY WITH EXISTING GRADE. THE GRADING OPERATION SHALL GENERALLY CONSIST OF MOVING AND TRANSPORTING MATERIALS WITHIN THE AREA; HOWEVER, THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL FILL MATERIAL IF NECESSARY TO COMPLETE THE SITE GRADING TO THE ELEVATIONS SHOWN, OR OFFHAUL ANY EXCESS MATERIAL WHICH MAY RESULT.

EROSION AND DUST CONTROL NOTES

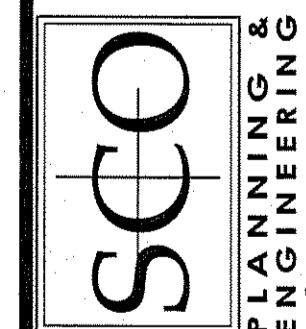
1. THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROLS MEASURES ARE IMPLEMENTED IN A TIMELY MANNER DURING ALL PHASES OF PROJECT DEVELOPMENT AND CONSTRUCTION.
 - 1a. ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHALL BE SUFFICIENTLY WATERED, TREATED, OR COVERED TO PREVENT DUST FROM LEAVING THE PROPERTY BOUNDARIES AND CAUSING A PUBLIC NUISANCE OR A VIOLATION OF AN AMBIENT AIR STANDARD. WATERING SHOULD OCCUR AT LEAST TWICE DAILY, WITH COMPLETE SITE COVERAGE.
 - 1b. ALL LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES ON THE PROJECT SHALL BE SUSPENDED AS NECESSARY TO PREVENT EXCESSIVE WINDBLOWN DUST WHEN WINDS ARE EXPECTED TO EXCEED 20 MPH.
 - 1c. ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHALL BE COVERED, SEEDED, OR WATERED UNTIL A SUITABLE COVER IS ESTABLISHED. ALTERNATIVELY, THE OWNER, OR CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING CITY APPROVED NON-TOXIC SOIL STABILIZERS (ACCORDING TO MANUFACTURERS SPECIFICATIONS) TO ALL INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS WHICH REMAIN INACTIVE FOR 96 HOURS) IN ACCORDANCE WITH THE LOCAL GRADING ORDINANCE.
 - 1d. ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
 - 1e. ALL MATERIAL TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED, OR SECURELY COVERED TO PREVENT PUBLIC NUISANCE.
 - 1f. PAVED STREETS ADJACENT TO THE PROJECT SHALL BE SWEEPED OR WASHED AT THE END OF EACH DAY, OR AS REQUIRED TO REMOVE EXCESSIVE ACCUMULATIONS OF SILT AND/OR MUD WHICH MAY HAVE RESULTED FROM ACTIVITIES AT THE PROJECT SITE.
 - 1g. NO BURNING OF WASTE MATERIAL OR VEGETATION SHALL TAKE PLACE ON-SITE.
2. IF PERMANENT EROSION CONTROL MEASURES ARE NOT INSTALLED BY OCTOBER 15 OF CONSTRUCTION SEASON, TEMPORARY MEASURES, SUCH AS STRAW BALE SEDIMENT BARRIERS, CHECK DAMS, SEDIMENT TRAPS SHALL BE INSTALLED IN ACCORDANCE WITH THE SWPPP. THESE MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.

DESIGNED: NUB	DATE
DRAWN: NUB	NO. REVISIONS
PROJ. NO: 201810	
DATE: NOVEMBER, 2018	

NEVADA COUNTY SHERIFF ADA RETROFIT NOTES

CALIFORNIA

NEVADA CITY

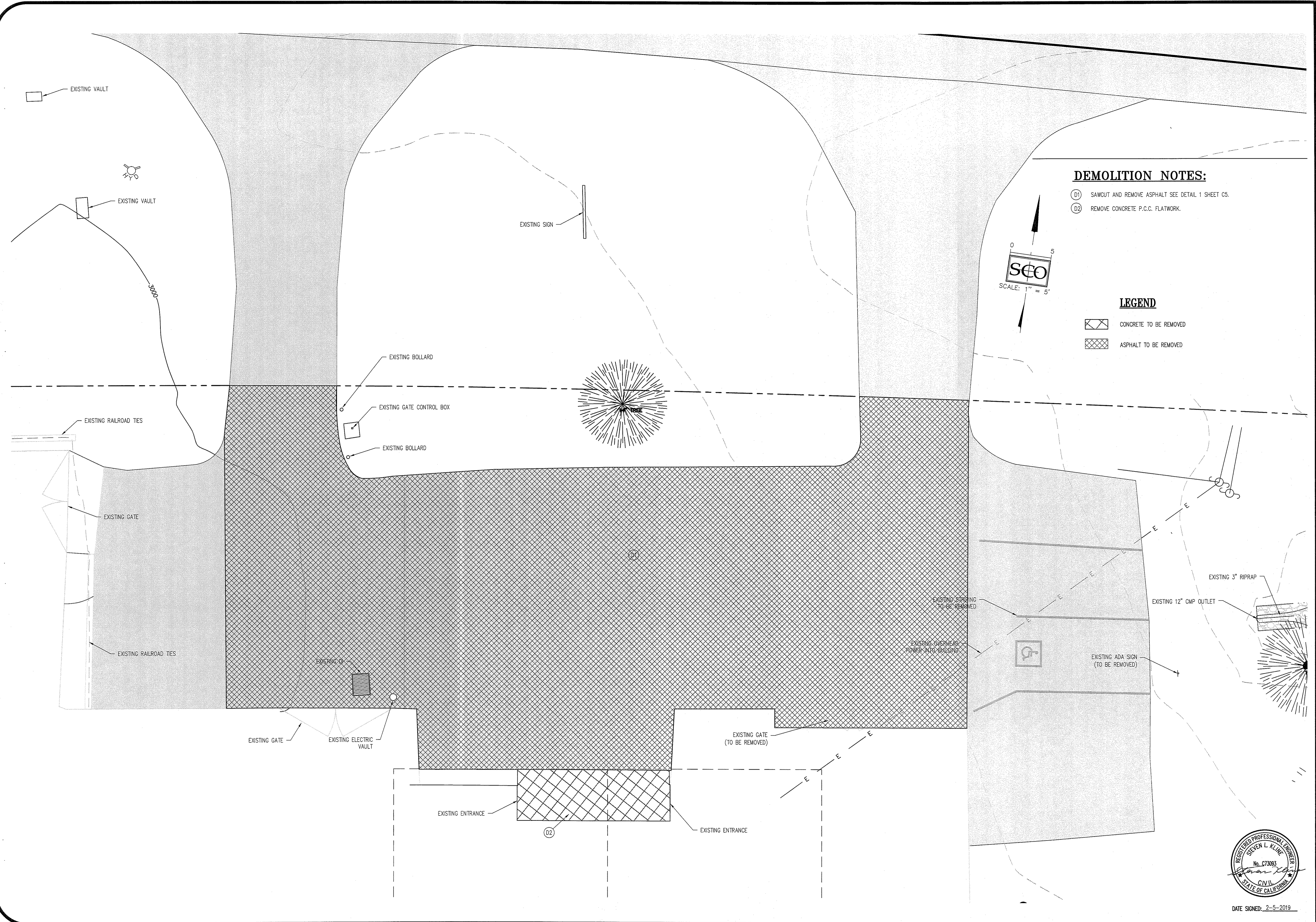


GRASS VALLEY (530) 275-1841
TRUCKEE (530) 695-4043
FAX (530) 275-5880



DATE SIGNED: 2-5-2019

2 OF 5



DEMOLITION NOTES:

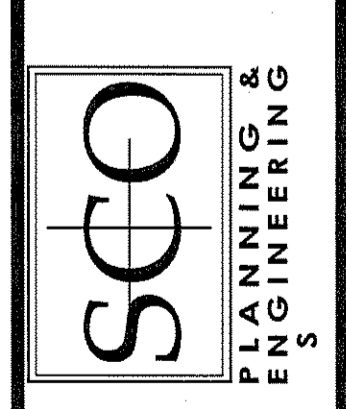
- (D1) SAWCUT AND REMOVE ASPHALT SEE DETAIL 1 SHEET C5.
- (D2) REMOVE CONCRETE P.C.C. FLATWORK.

LEGEND

- CONCRETE TO BE REMOVED
- ASPHALT TO BE REMOVED

NO.	REVISIONS	DATE

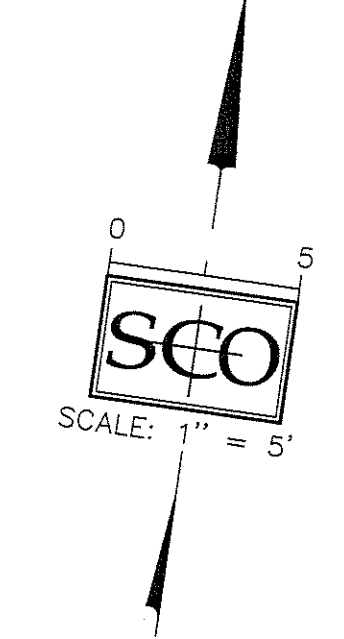
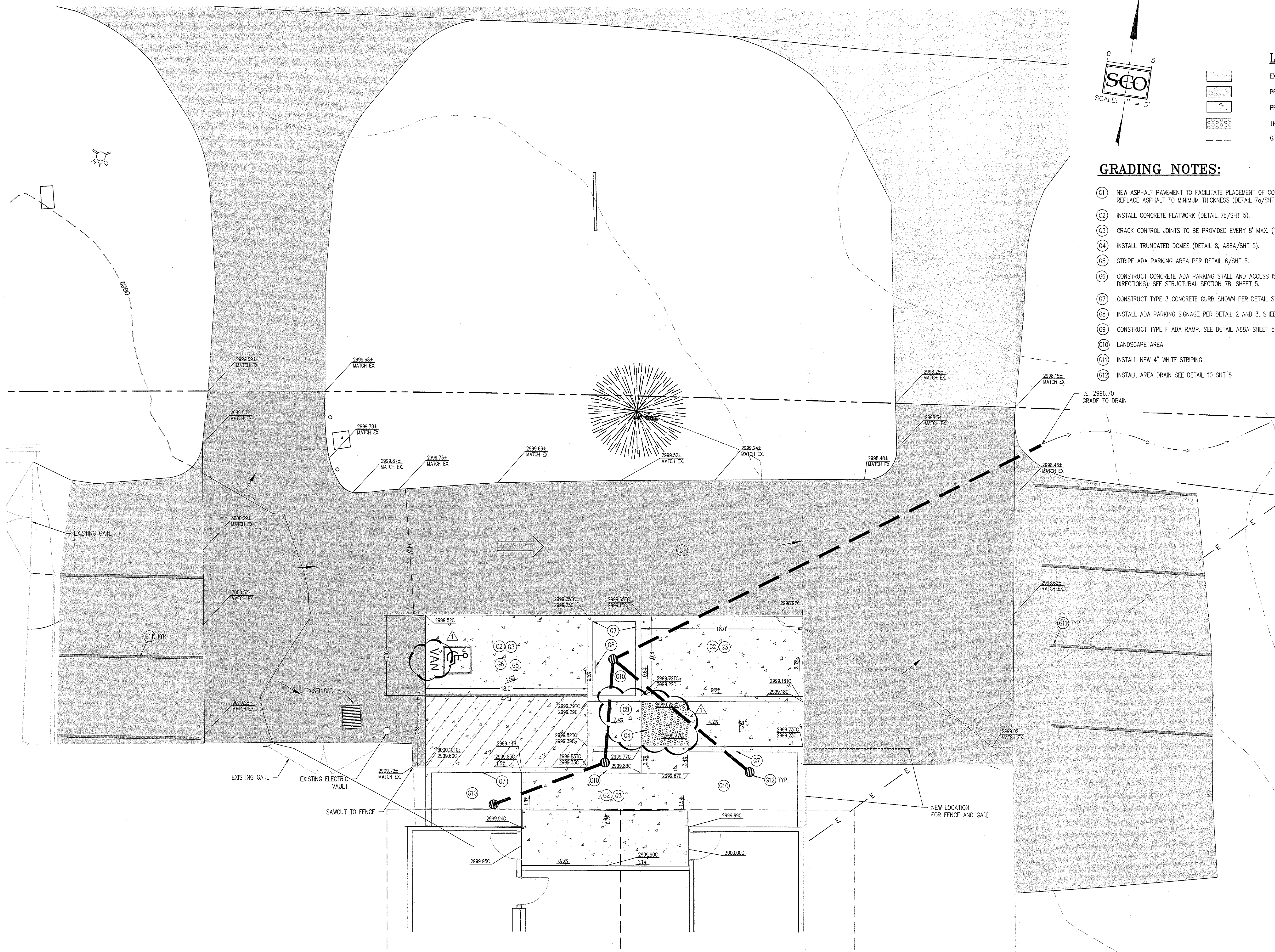
NEVADA COUNTY SHERIFF ADA RETROFIT
 EXISTING TOPOGRAPHY AND DEMOLITION PLAN
 NEVADA CITY, CALIFORNIA



GRASS VALLEY
 (530) 272-1841
 TRUCKEE
 (530) 862-1043
 FRESNO
 (530) 272-1880



DATE SIGNED: 2-5-2019



LEGEND

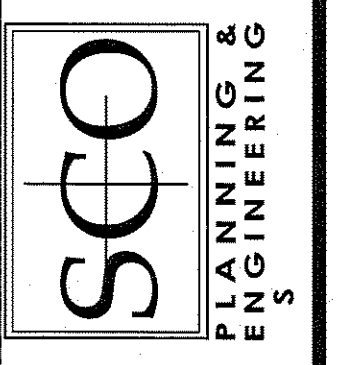
	EXISTING ASPHALT PAVEMENT
	PROPOSED ASPHALT PAVEMENT (GRIND)
	PROPOSED CONCRETE (DETAIL 7b/SHT 5)
	TRUNCATED DOMES (DETAIL 8, 88A/SHT 5)
	GRADE BREAK

- GRADING NOTES:**
- G1 NEW ASPHALT PAVEMENT TO FACILITATE PLACEMENT OF CONCRETE ADA PARKING PER DETAIL 1. REPLACE ASPHALT TO MINIMUM THICKNESS (DETAIL 7a/SHT 5).
 - G2 INSTALL CONCRETE FLATWORK (DETAIL 7b/SHT 5).
 - G3 CRACK CONTROL JOINTS TO BE PROVIDED EVERY 8' MAX. (TYPICAL)
 - G4 INSTALL TRUNCATED DOMES (DETAIL 8, 88A/SHT 5).
 - G5 STRIPE ADA PARKING AREA PER DETAIL 6/SHT 5.
 - G6 CONSTRUCT CONCRETE ADA PARKING STALL AND ACCESS ISLE TO LINE AND GRADES SHOWN (<2% ALL DIRECTIONS). SEE STRUCTURAL SECTION 7B, SHEET 5.
 - G7 CONSTRUCT TYPE 3 CONCRETE CURB SHOWN PER DETAIL ST-7, SHEET 5.
 - G8 INSTALL ADA PARKING SIGNAGE PER DETAIL 2 AND 3, SHEET 5.
 - G9 CONSTRUCT TYPE F ADA RAMP. SEE DETAIL 88A SHEET 5.
 - G10 LANDSCAPE AREA
 - G11 INSTALL NEW 4" WHITE STRIPING
 - G12 INSTALL AREA DRAIN SEE DETAIL 10 SHT 5

DESIGNED: NJB	DATE: 1-24-19
DRAWN: NJB	NO. REVISIONS: 1
PROJ. NO: 201810	PLAN REVIEW
DATE: NOVEMBER, 2018	

NO. REVISIONS	DATE
1	1-24-19

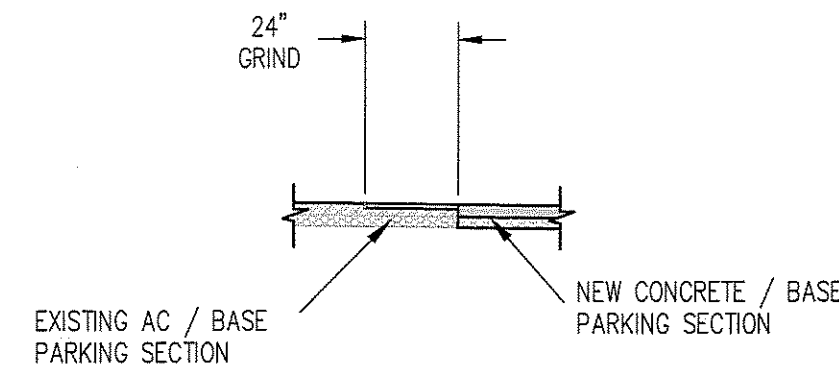
NEVADA COUNTY SHERIFF ADA RETROFIT
GRADING AND DRAINAGE PLAN
NEVADA CITY CALIFORNIA



GRASS VALLEY
(650) 276-1841
TRUCKEE
(650) 686-0449
FAX: (650) 276-5880

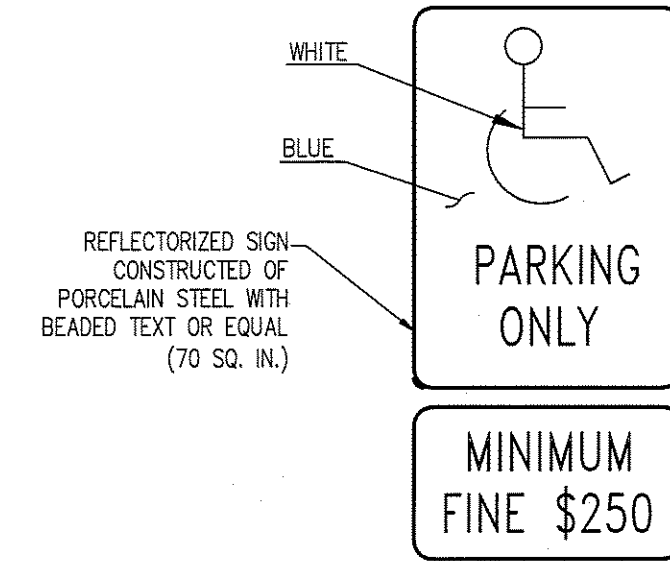


DATE SIGNED: 2-5-2019



NOTE:
APPLY TACK COAT AT SAWCUT AND GRIND SURFACES PER NEVADA COUNTY STANDARD SPECIFICATIONS.

1 JOIN EXISTING ASPHALT
NTS

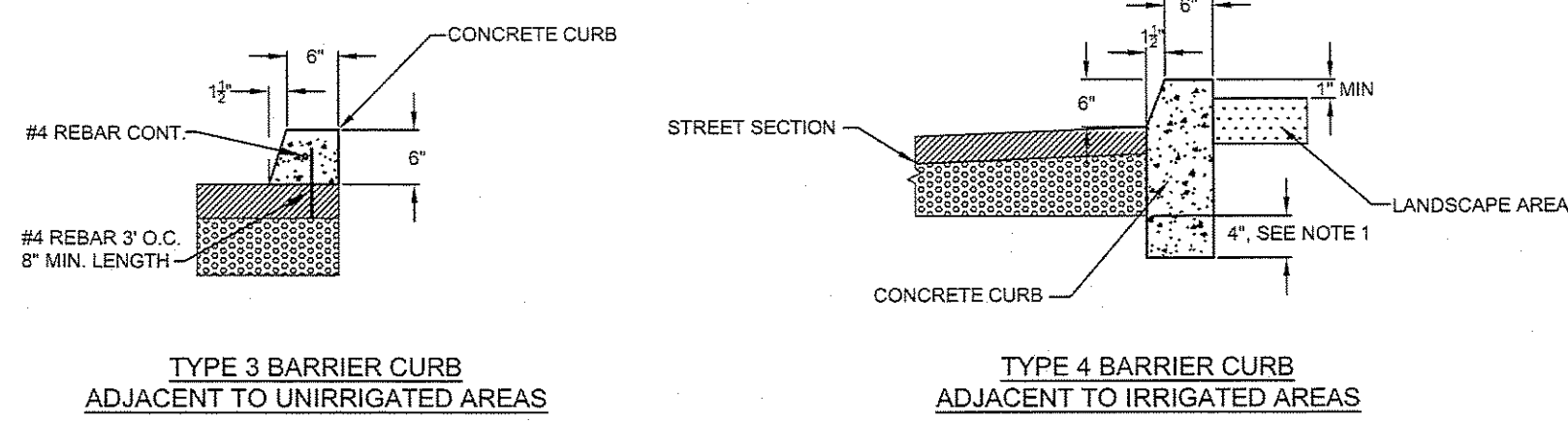


2 ADA PARKING SIGN
NTS



NOTES:
A R100B (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.

3 UNAUTHORIZED VEHICLE SIGN
NTS

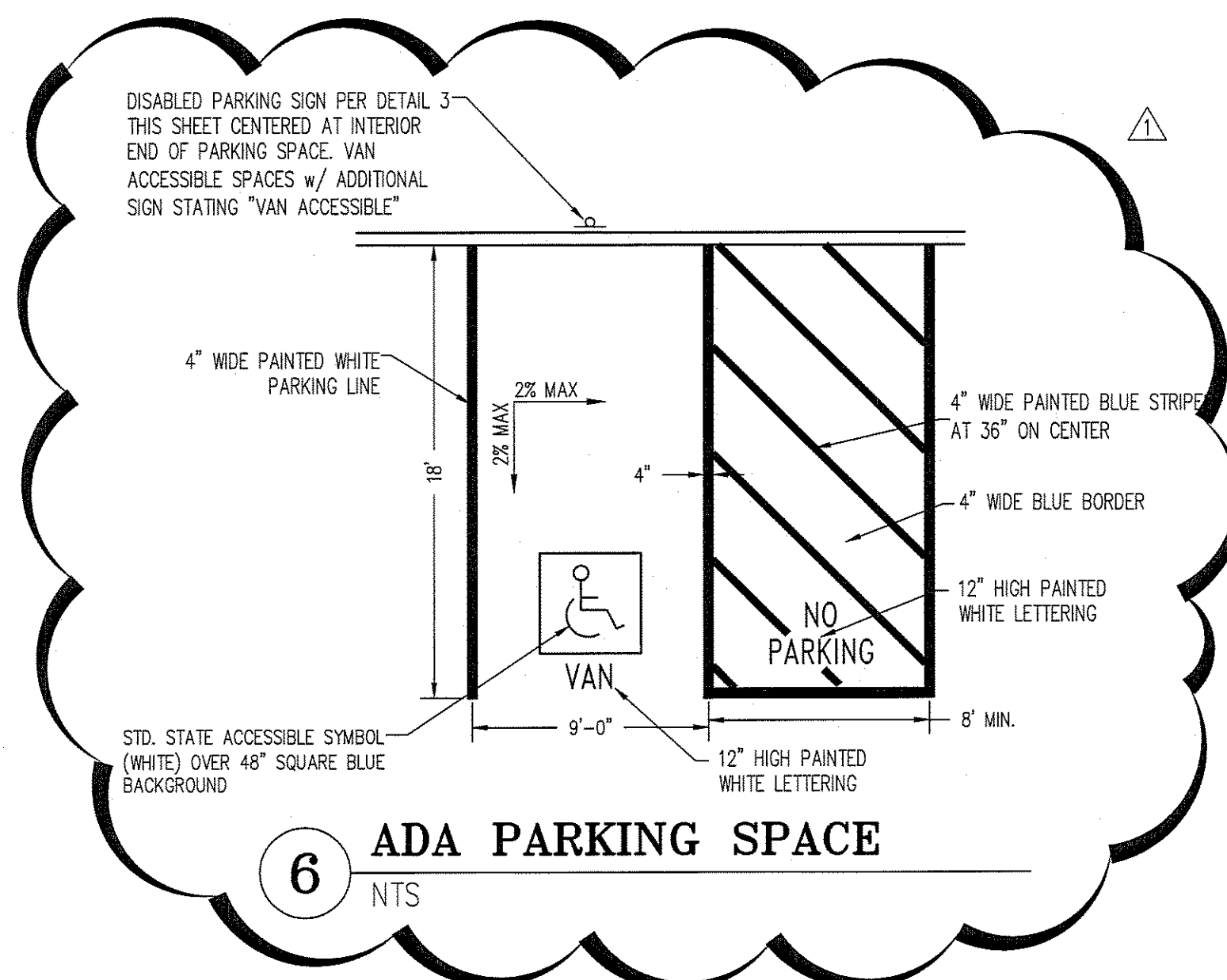


NOTES:
1. TYPE 4 CURB TO BE 18" TALL OR 4" DEEPER THAN THE STREET SECTION, WHICHEVER IS GREATER.
2. LANDSCAPE AREA TO BE SLOPED TO DRAIN TO AN APPROVED DRAINAGE OR FIELD INLET.

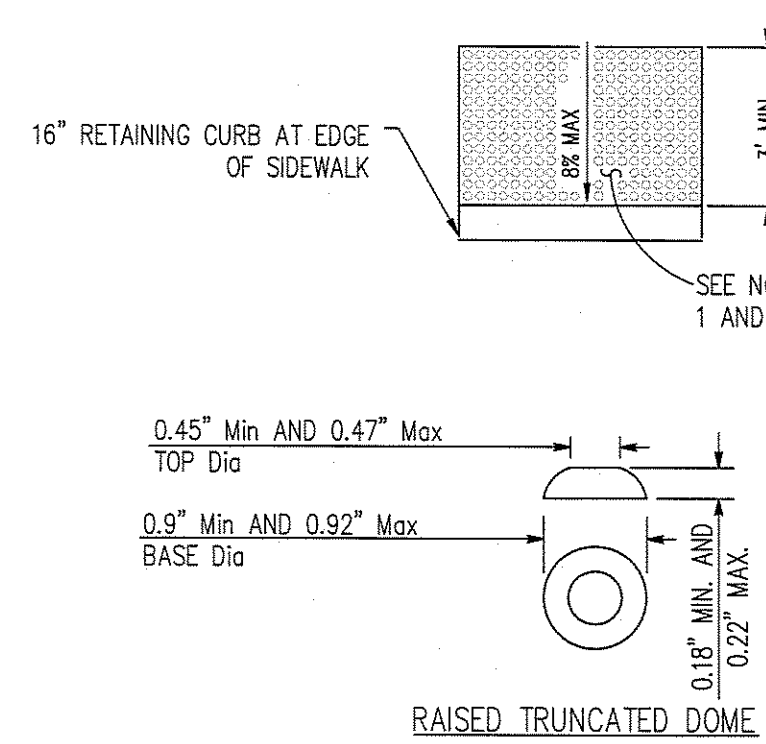
APPROVED BY: *[Signature]*
PUBLIC WORKS DIRECTOR / CITY ENGINEER

SCALE: NONE DRAWN BY: EAD DATE: MAY 12, 2016 **ST - 7**

NO.	REVISIONS	DATE	DESIGNED: NUB
1	PLAN REVIEW	1-24-19	NUB
			PROJ. NO: 201810
			DATE: NOVEMBER, 2018

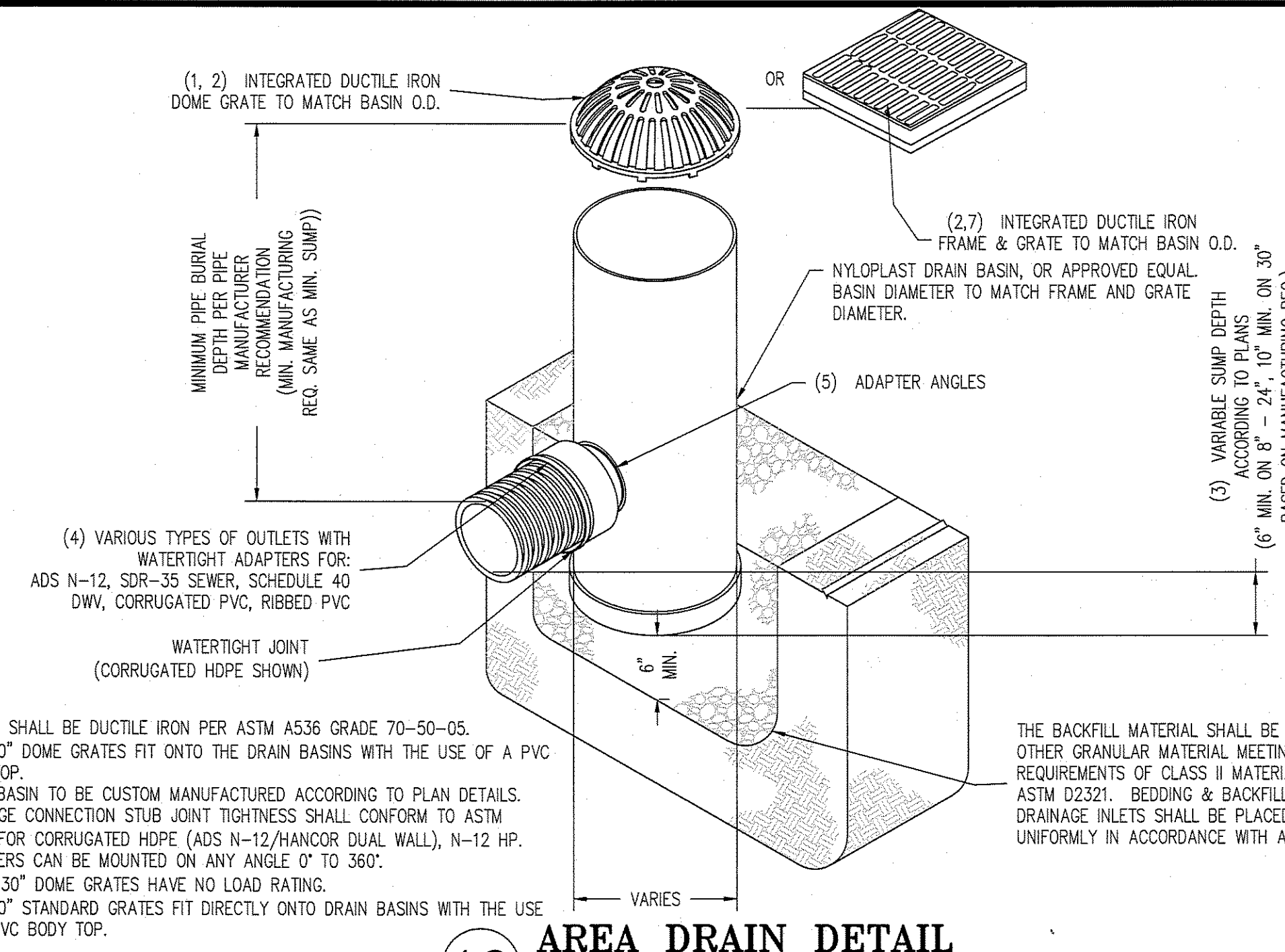


6 ADA PARKING SPACE
NTS



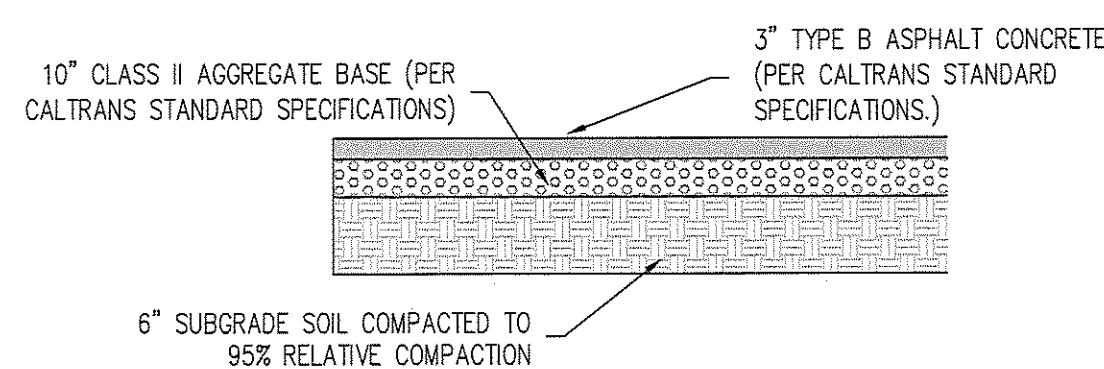
NOTES:
1. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE DETAILS ON THIS PLAN AND THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS.
2. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.
3. DOMES SHALL BE ARMOR TILE, FEDERAL YELLOW IN COLOR.

8 TRUNCATED DOME DETAIL
NTS

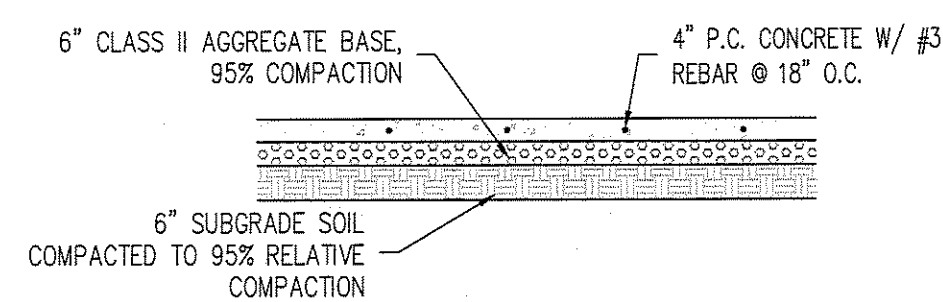


NOTES:
1 - GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
4 - DRAINAGE CONNECTION SUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANGOR DUAL WALL), N-12 HP.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°.
6 - 8" & 10" STANDARD GRATES HAVE NO LOAD RATING.
7 - 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP.

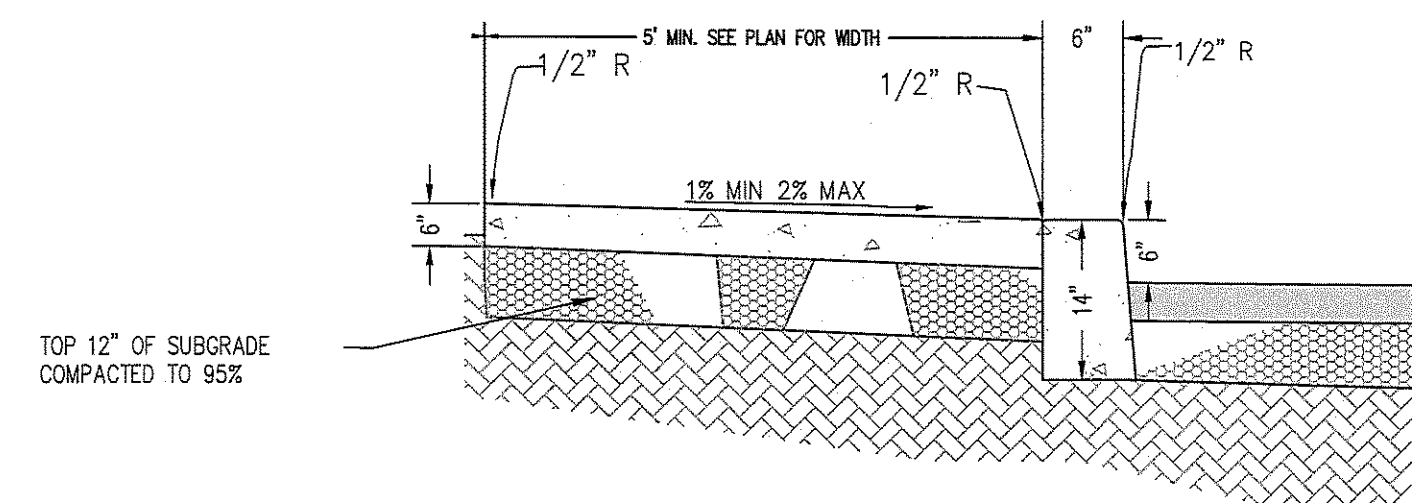
10 AREA DRAIN DETAIL
NTS



7a ASPHALT PARKING STRUCTURAL SECTION
NTS

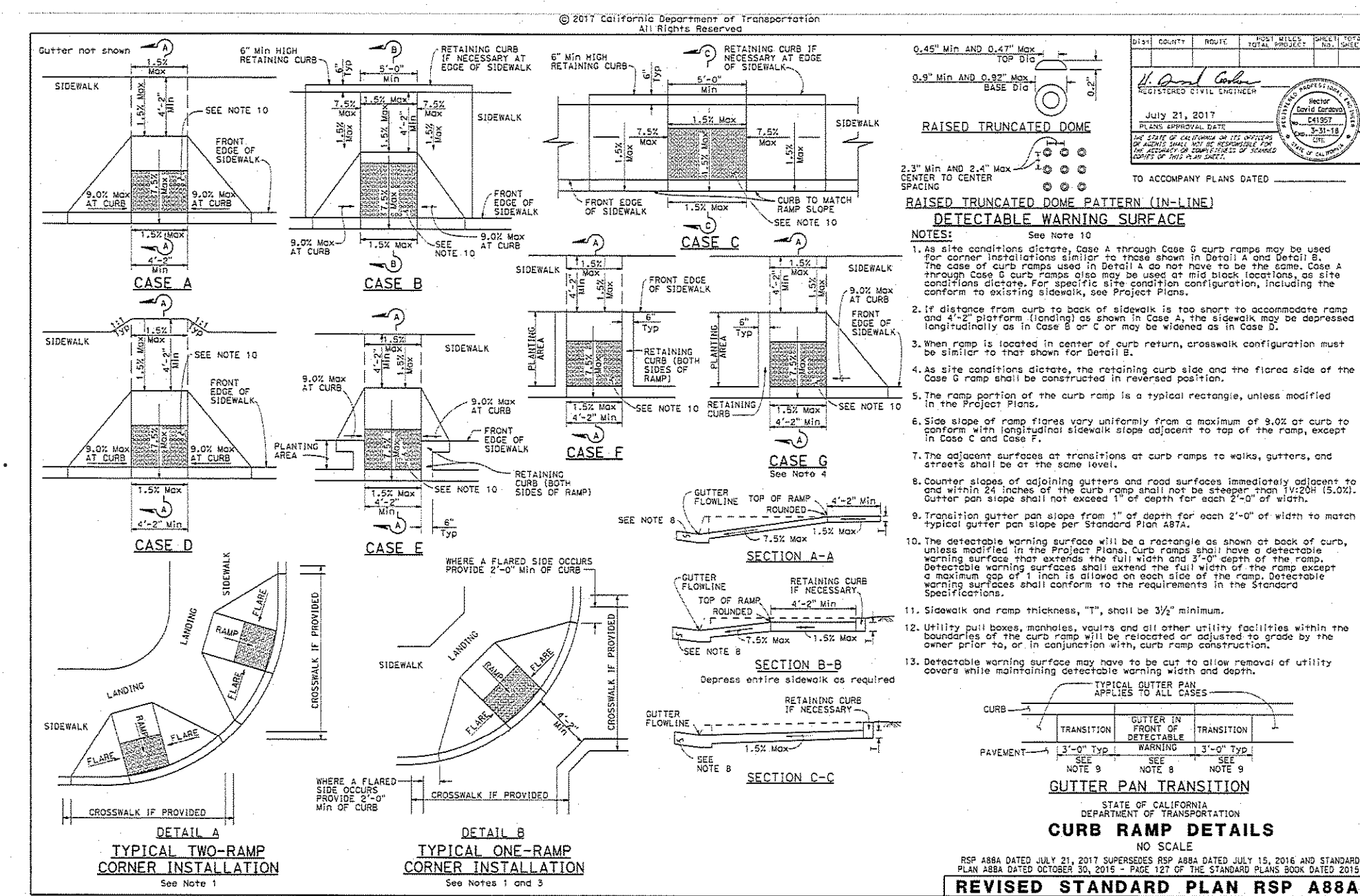


7b TYPICAL CONCRETE STRUCTURAL SECTION
NTS



NOTES:
1. AGGREGATE BASE COMPACTED TO 95%. MAY BE SUBSTITUTED FOR NATIVE SUBGRADE UNDER THE SIDEWALK SECTION

9 SIDEWALK DETAIL
NTS



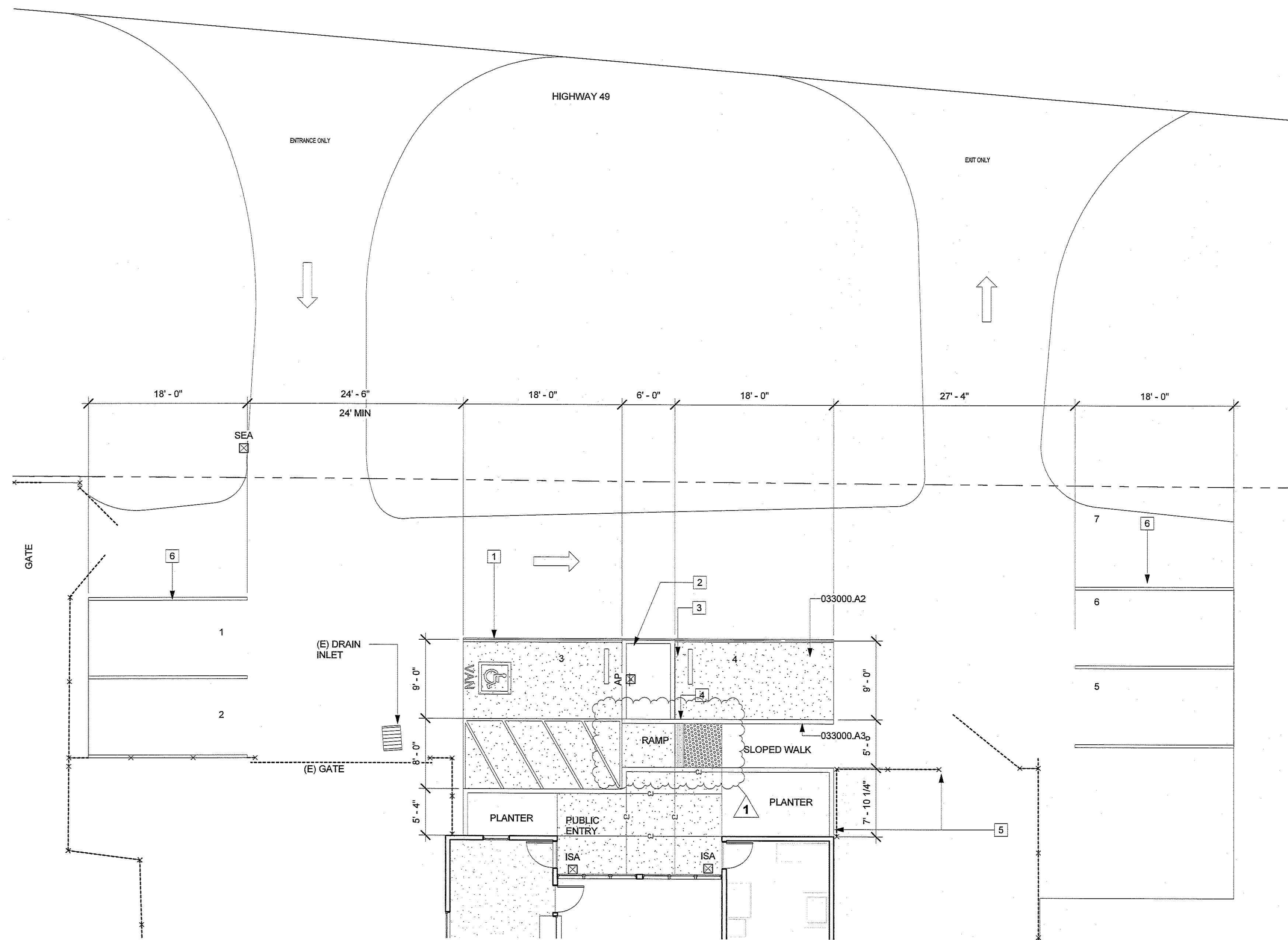
REGISTERED PROFESSIONAL ENGINEER
STEVEN L. KLINE
No. C73093
STATE OF CALIFORNIA
CIVIL

DATE SIGNED: 2-5-2019

NEVADA COUNTY SHERIFF ADA RETROFIT DETAILS
CALIFORNIA

SCO
ENGINEERING

GRASS VALLEY (930) 872-5841 TRUCKEE (930) 892-4043
5 OF 5
REVISED STANDARD PLAN RSP A88A



1 ENLARGED PARKING AREA
1/8" = 1'-0"

LEGEND

- CONCRETE FLATWORK
- PROPERTY LINE
- SETBACK LINE
- FLATWORK CONTROL JOINT
- FLATWORK EXPANSION JOINT

- CURB/PLANTER WALL TYPES:**
- MATERIAL: CAST-IN-PLACE CONCRETE
 - FINISH: REFER TO DETAIL
 - HEIGHT: REFER TO DETAIL
 - WIDTH: 6-INCHES

- BUILDING ENTRANCE AND ACCESSIBILITY SIGNAGE**
- INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN, REFER TO:
 - ACCESSIBLE PARKING SIGN, REFER TO:
 - SITE ENTRANCE ACCESSIBILITY SIGN, REFER TO:

PARKING CALCULATION

BUILDING AREA: 2,156 SF
 TOTAL EXISTING BUILDING: 739 SF
 OFFICE: 739 SF
 STORAGE: 1,417 SF

CALCULATION: 739 / 250
 = 3 REQUIRED STALLS FOR OFFICE USE

CALCULATION: 1,417 / 500
 = 3 REQUIRED STALL FOR WAREHOUSE USE

TOTAL REQUIRED PARKING COUNT = 6 STALLS
 TOTAL PARKING COUNT PROVIDED = 7 STALLS

ACCESSIBLE PARKING SUMMARY

7 TOTAL PARKING STALLS
 1 ACCESSIBLE SPACES REQUIRED (PER TABLE 11B-208.2)
 (1 PROVIDED)

GENERAL NOTES

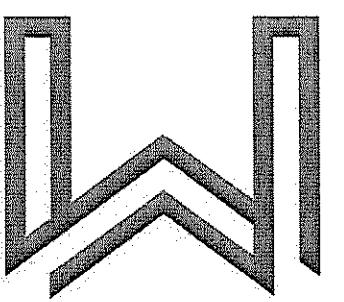
- A. WALK SURFACES WITH A SLOPE OR GRADIENT OF LESS THAN 6% SHALL HAVE A SLIP RESISTANCE OF AT LEAST A MEDIUM SALTED FINISH.
- B. UNLESS NOTED OTHERWISE, CONTROL & EXPANSION JOINTS SHALL BE EVENLY SPACED.
- C. CONC. CURBS SHALL HAVE A SMOOTH FINISH, TYP.
- D. EXPOSED EDGES OF CONCRETE CURBS SHALL HAVE A RADIUS EDGE.
- E. REPAIR/REPLACE ALL SIDEWALKS FRONTING PROPERTY WITH CRACKS GREATER THAN 1/4" IN WIDTH OR 1/2" OR MORE IN VERTICAL DISPLACEMENT.
- F. SIDEWALK ON PUBLIC WAY SHALL COMPLY WITH CITY OF GRASS VALLEY IMPROVEMENT STANDARDS.
- G. THE ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. IN ADDITION, OBJECT MOUNTED BETWEEN 27" AND 80" SHALL NOT PROTRUDE INTO PATH GREATER THAN 4" PROJECTION FROM WALL.
- H. INSTALL EXPANSION JOINTS AT:
 1. PAVING TRANSITIONS TO DISSIMILAR MATERIALS
 2. NEXT TO BUILDING SLAB AND BUILDING COLUMNS WHERE INDICATED
 3. AT PAVING INTERSECTIONS
 4. AT 20' O.C. MAX. ALONG LENGTH OF FLATWORK
 5. REFER TO:
- I. CONCRETE PEDESTRIAN FLATWORK: REFER TO SITE PLAN, AND/OR SPECIFICATIONS FOR CONCRETE FLATWORK FINISHES. SIDEWALKS, WALKWAYS ALONG ACCESSIBLE ROUTES OF TRAVEL, BETWEEN DISABLED PARKING SPACES AND BUILDING ENTRANCES SHALL:
 1. BE CONTINUOUSLY ACCESSIBLE
 2. HAVE VERTICAL CHANGES IN ELEVATION NOT TO EXCEED 1/4" MAX.
 3. BE MIN. 48" IN WIDTH.
 4. HAVE RAMPS COMPLYING WITH CBC SECTION 3307 WHERE NECESSARY TO CHANGE ELEVATIONS AT SLOPES EXCEEDING 5%.
 5. REFER TO:

SHEET NOTES

1. SEE CIVIL DRAWINGS FOR EXTENT OF (E) ASPHALT & NEW CONCRETE PAVING WORK
2. 2' WIDE CONCRETE CURB
3. CONCRETE PAVEMENT AT NEW PARKING STALLS.
4. 6" CONCRETE CURB
5. NEW LOCATION FOR FENCE & GATE
6. PAINT STRIPE @ (E) PARKING STALLS

KEYNOTES

- 033000.A2 CAST-IN-PLACE CONCRETE SLAB
- 033000.A3 CAST-IN-PLACE CONCRETE CURB



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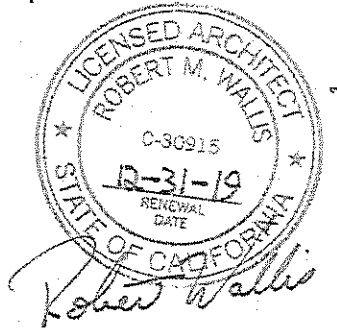
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Unit

NC Facilities
Management

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Nevada City, California 95959
APN: 05-040-03

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Consultant:

Proj. No.: 2018006

Date: 12/11/2018

Scale: As indicated

Drawn By: JMT

Revisions:

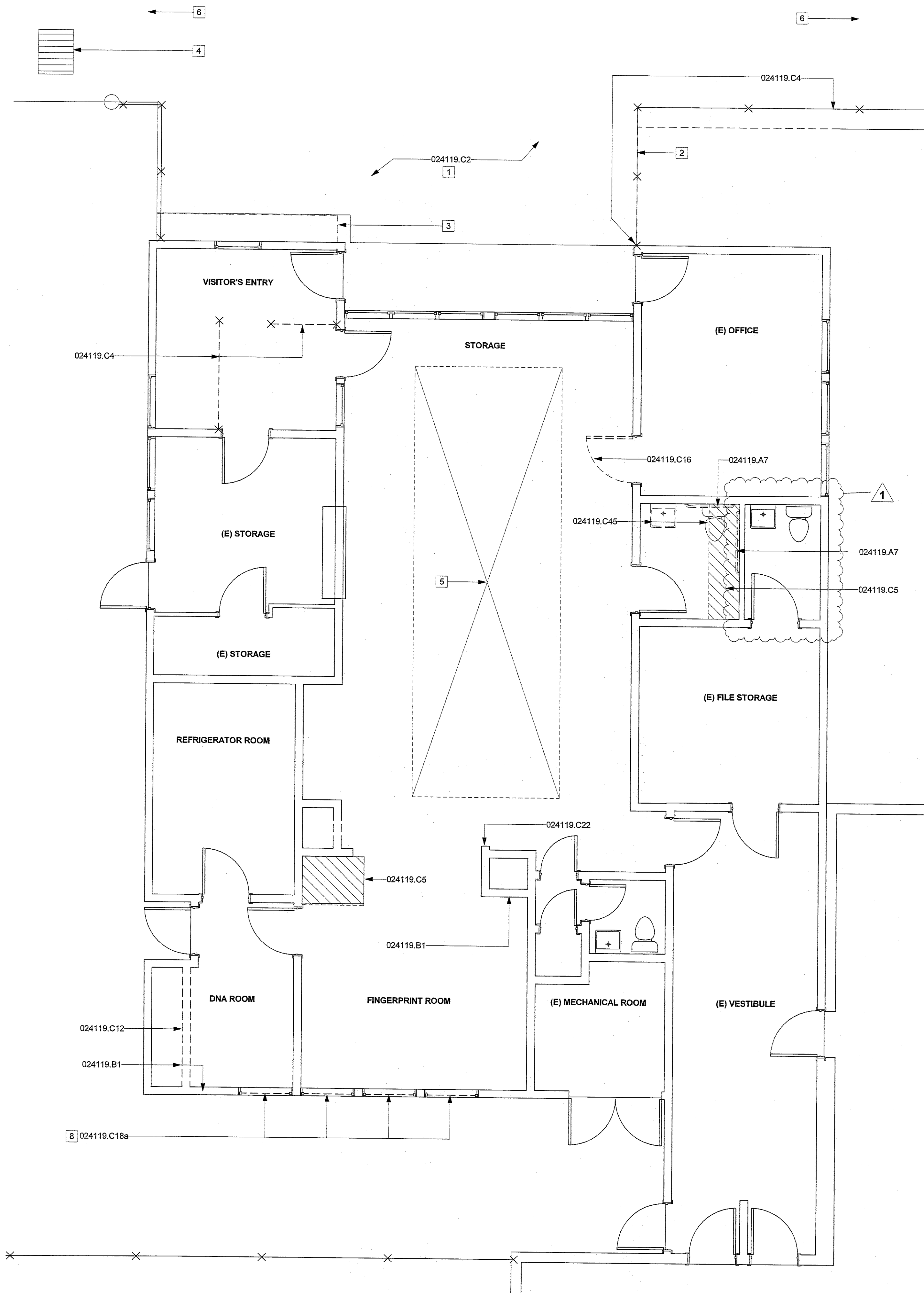
No.	Description	Date
1	Plan review	1/31/2019

Drawing Title:

ENLARGED
PARKING AREA
JOB SET

Drawing Number:

A1.0



LEGEND

- EXISTING WALL LOCATION TO REMAIN
- OBJECT TO BE TO BE REMOVED
- SLAB AREA TO BE REMOVED

GENERAL NOTES

- A. THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT AND ANY OTHER REQUIRED APPROVALS PRIOR TO THE EXECUTION OF ANY DEMOLITION. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THE DEMOLITION, RECYCLING, STORAGE AND PROTECTION OF ALL ITEMS WITHIN THE PROJECT AREA.
- B. DEMOLITION WORK SHALL COMPLY WITH LOCAL ORDINANCES AND SAFETY CODES OF STATE OF CALIFORNIA AND RULES AND REGULATIONS OF INDUSTRIAL ACCIDENT COMMISSION OF STATE OF CALIFORNIA APPLICABLE TO DEMOLITION WORK.
- C. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH THE OWNER AND AGENCIES HAVING JURISDICTION.
- D. CONTRACTOR IS ADVISED THAT THERE MAY BE UNDERGROUND OR OTHERWISE CONCEALED PIPE LINES, ELECTRICAL/TELEPHONE WIRES, COLUMNS, BEAMS, FOOTINGS OR OTHER STRUCTURAL, MECHANICAL OR ELECTRICAL ITEMS. ALTHOUGH THE DRAWINGS PRODUCED BY THE ARCHITECT AND HIS CONSULTANTS ARE BELIEVED TO BE SUBSTANTIALLY CORRECT, THE ARCHITECT AND OWNER DO NOT GUARANTEE THE LOCATION OR EXISTENCE OR CONDITION OF ANY CONCEALED ITEMS. CONTRACTORS MUST PROCEED WITH CAUTION DURING DEMOLITION AND CONSTRUCTION AND MUST MAKE THEIR OWN DETERMINATION, MEASUREMENTS, AND EVALUATION OF THE WORKING CONDITION OF EXISTING CONCEALED ITEMS.
- E. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER IN WRITING IMMEDIATELY. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES RELATIVE TO REMOVAL HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
- F. ANY INTERRUPTION TO BUILDING UTILITIES SHALL BE CLEARED WITH OWNER 72 HOURS PRIOR TO PROPOSED INTERRUPTION.
- G. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTAINERIZED DEBRIS REMOVAL AND RECYCLING SERVICE OF ALL DEBRIS FROM ALL TRADES AND ALL WORK RELATING TO THE PROJECT. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION DUMPSTER AND/OR CHUTE LOCATION WITH OWNER PRIOR TO PLACEMENT.
- H. CONTRACTOR IS TO USE ADEQUATE MEANS AND METHODS OF DEMOLITION AND REMOVAL FOR THE TYPE OF WORK PERFORMED.
- I. PERFORM DEMOLITION WORK IN SUCH A MANNER AS TO PREVENT DAMAGE TO EXISTING FACILITIES TO REMAIN OR TO BE SALVAGED, AND TO PREVENT INJURY TO PUBLIC AND WORKMEN ENGAGED ON SITE UNDER THIS OR OTHER CONTRACTS.
- J. THE CONTRACTOR SHALL PROTECT THE BUILDING EXTERIOR, ROADWAY AND LANDSCAPE FROM DAMAGE DURING THE DEMOLITION. ALL DAMAGE SHALL BE REPAIRED BY CONTRACTOR AT THEIR EXPENSE AND APPROVED BY OWNER.
- K. THE CONTRACTOR SHALL NOTIFY OWNER AND ARCHITECT AT LEAST 48 HOURS IN ADVANCE OF DEMOLISHING ITEMS NOT SPECIFIED ON THE PLANS.
- L. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION PLANS. NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION PLANS.
- M. ALL DOORS, WINDOWS, SIGNAGE, APPLIANCES AND LIGHT FIXTURES TO BE SALVAGED AND STORED PER OWNER'S INSTRUCTIONS.
- N. WHERE FLOORING IS REMOVED, CONCRETE SLAB TO BE PREPARED FOR INSTALLATION OF NEW FLOORING MATERIAL, PER MANUFACTURER'S REQUIREMENTS.

DEMOLITION NOTICE REQUIRED

- A. THE ASBESTOS NESHAP REGULATION, 40 CFR, SUBPART M SECTION 61.145 REQUIRES WRITTEN NOTIFICATION OF DEMOLITION OR RENOVATION OPERATIONS.
- B. CONTRACTOR SHALL MAKE ALL REQUIRED NOTIFICATIONS.
- C. CALIFORNIA AIR BOARD ASBESTOS FORM CAN BE DOWNLOADED AT: <http://www.arb.ca.gov/enf/asbestos/asbestosform.pdf>

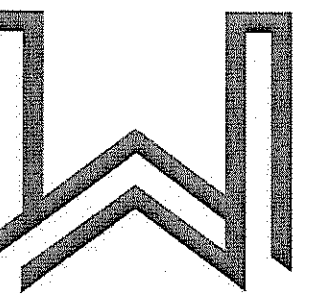
KEYNOTES

- 024119.A7 SALVAGE ITEM, RE-USE IN NEW WORK
- 024119.B1 DISCONNECT AND SEAL EXISTING UTILITIES
- 024119.C2 ASPHALT PAVING TO BE REMOVED
- 024119.C4 FENCE TO BE REMOVED
- 024119.C5 CONCRETE TO BE REMOVED
- 024119.C12 WOOD FRAMING TO BE REMOVED
- 024119.C16 DOOR TO BE REMOVED
- 024119.C18a WINDOW TO BE REMOVED
- 024119.C22 WALL TO BE REMOVED
- 024119.C45 PLUMBING FIXTURES TO BE REMOVED

SHEET NOTES

1. SEE SITE PLAN FOR EXTENT OF NEW CONCRETE PAVING.
2. VERIFY EXTENT OF FENCE REMOVAL TO EXISTING POSTS.
3. (E) PLANTER EDGE OF PAVING.
4. PROTECT (E) DRAIN INLET.
5. (E) MOVABLE STORAGE UNIT.
6. LINE OF ASPHALT DEMO FOR PATCH AREA OF NEW CONCRETE PARKING SLAB, SEE A1.0 FOR FULL EXTENT OF WORK.
7. REMOVE (E) WINDOW BARS, SAVE AND REPLACE AFTER NEW WINDOWS INSTALLED.
8. VERIFY VIABILITY OF (E) WINDOW SILL AND REPLACE IN KIND AS NECESSARY.

1 EXISTING & DEMO PLAN
1/4" = 1'-0"



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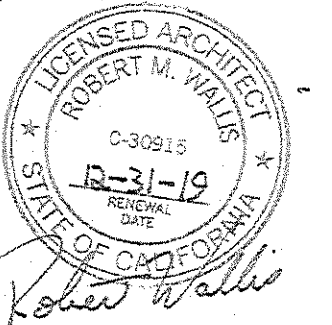
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Consultant:

Proj. No.: 2018006

Date: 12/11/2018

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

Drawn By: JMT

Revisions:

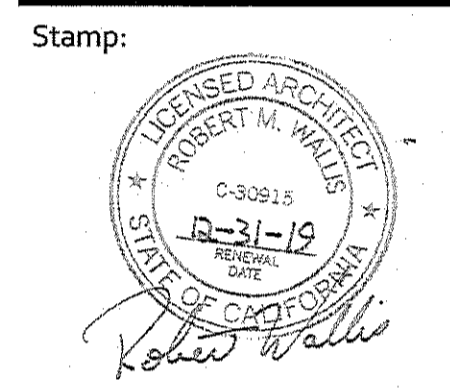
No.	Description	Date
1	Plan review	1/31/2019

Drawing Title:

(E) &
DEMOLITION
PLANS

Drawing Number:

A2.0



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Date: 12/11/2018

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Drawn By: JMT

Revisions:

No.	Description	Date
1	Plan review	1/31/2019
	1-24-2019	

OFFICE SET
Drawing Title:
FLOOR PLAN

Drawing Number:

A2.1

LEGEND

- (E) WALL LOCATION
- (N) WALL OR INFILL LOCATION
- ALIGN
- 101 DOOR TYPE, REFER TO DOOR SCHEDULE ON A3.0 FOR ADDITIONAL INFORMATION.
- 11 WINDOW TYPE, REFER TO WINDOW SCHEDULE ON A3.0 FOR ADDITIONAL INFORMATION.
- EQ1 EQUIPMENT FIXTURE, REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- W1 WALL TYPES - SEE WALL SCHEDULE FOR ADDITIONAL INFORMATION.
- CR CARDREADER BY OWNER
- DB DOOR BUTTON - POWER ACTIVATED DOOR OPENER BY OWNER

GENERAL NOTES

- A. INSTALLATION OF FRAMING SHALL BE WIDTHS HEREIN LISTED IN WALL TYPES UNLESS SPECIFIED DIFFERENTLY BY STRUCTURAL DOCUMENTS. CONTRACTOR SHALL NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO INSTALLATION. REFER TO PLANS, SECTIONS AND DETAILS FOR STUD SIZE CHANGES FROM HEREIN SCHEDULED.
- B. REFER TO INTERIOR FINISH SCHEDULE AND LEGEND FOR FLOOR, WALL AND CEILING FINISHES.
- C. REFER TO DOOR SCHEDULE ON SHEET A3.0 FOR INTERIOR AND EXTERIOR DOOR INFORMATION.
- D. REFER TO SPECIFICATION FOR ADDITIONAL KEYNOTE SECTION INFORMATION.

DIMENSION NOTES

- A. EXTERIOR DIMENSIONS ARE MEASURED TO FACE OF STRUCTURAL SHEATHING / SLAB EDGE OR CENTERLINE OF STRUCTURE U.N.O.
- B. INTERIOR DIMENSIONS ARE MEASURED TO FACE OF STUD, U.N.O.
- C. DOORS AND WINDOWS ARE MEASURED TO CENTERLINE OF OPENINGS.
- D. ALL ANGLED WALLS ARE AT 45 DEGREES UNLESS NOTED OTHERWISE.
- E. SET JAMB AT HINGE SIDE OF EXTERIOR DOORS @ 4.5" U.N.O. INTERIOR DOORS @ 4.5" U.N.O.

WALL SCHEDULE

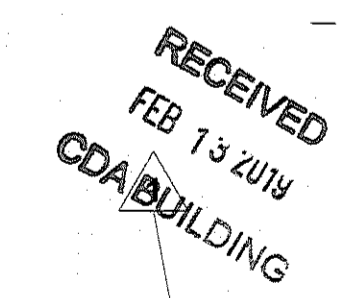
- W1 2x WOOD STUDS @ 16" OC W/ 5/8" GYP BD BOTH SIDES W/ ACOUSTICAL INSULATION. SMOOTH WALL TEXTURE FINISH

SHEET NOTES

- 1. PROVIDE NEW EXTERIOR THRESHOLD AT (E) DOOR.
- 2. DESK PROVIDED BY OWNER.
- 3. BUILT-IN COUNTERTOP DESK
- 4. OWNER PROVIDED DRINKING WATER DISPENSER LOCATION. 30"x48" CLEAR ACCESSIBLE SPACE.
- 5. FLOOR SLOPED TO DRAIN UNDER EMERGENCY SHOWER.
- 6. TENANT PROVIDED MICROWAVE OVEN ON COUNTERTOP
- 7. PHOTO DESK PROVIDED BY TENANT.
- 8. SERVER CLOSET.
- 9. PUBLIC ENTRY: SECURE POWER ASSISTED ADA DOOR, ACTIVATION FROM WITHIN THROUGH SHERIFF'S PERSONNEL.
- 10. PERSONNEL ENTRY: SECURE POWER ASSISTED ADA DOOR, ACTIVATION THROUGH CARD READER AND WALL MOUNTED BUTTON.
- 11. 36" WIDE CLEAR AISLE WIDTH TO BE MAINTAINED BETWEEN COUNTERTOPS AND TABLES.

KEYNOTES

- 093000.A CERAMIC TILE ASSEMBLY
- 096516.B VINYL SHEET FLOORING ASSEMBLY
- 123623.A COUNTERTOP: PLASTIC LAMINATE FINISH
- 123653.A EPOXY RESIN COUNTERTOP ASSEMBLY
- 123653.B EPOXY RESIN SINK ASSEMBLY



FINISH LEGEND

- FLOOR FINISH
 - WALL FINISH
 - MOULDING FINISH
 - CEILING FINISH
- FLOORING:**
- F1 MANUFACTURER: MANNINGTON
TYPE: HOMOGENEOUS SHEET
STYLE: BIO-SPEC MD
COLOR: TBD
NOTE: MOISTURE SEALANT O/ (E) CONC
 - F2 MANUFACTURER: MANNINGTON
TYPE: SHEET VINYL
STYLE: TBD
COLOR: TBD
NOTES: SEE SCHEDULE FOR LOCATION
 - F3 MANUFACTURER: TBD
TYPE: GLAZED PORCELAIN
STYLE: TBD
COLOR: TBD
SIZE: 4" X 4"

- BASE MOULDING:**
- B1 MANUFACTURER: TBD
PRODUCT: COVED FLOOR MATERIAL
COLOR: TBD
NOTE: 4" TALL
 - B2 MANUFACTURER: TBD
TYPE: GLAZED PORCELAIN
STYLE: BASE TILE
COLOR: TBD
SIZE: 4" TALL

- PAINT:**
- P1 MANUFACTURER: KELLY MOORE
PRODUCT: TBD
COLOR: TBD
FINISH: EGG-SHELL
NOTE: STANDARD WALL COLOR UNO ON PLANS
 - P2 MANUFACTURER: KELLY MOORE
PRODUCT: TBD
COLOR: TBD
FINISH: EGG-SHELL
NOTE:
 - P3 MANUFACTURER: KELLY MOORE
PRODUCT: TBD
COLOR: TBD
FINISH: SEMI GLOSS
NOTE:

- COUNTERTOPS:**
- L1 MANUFACTURER: WILSONART
TYPE: TBD
FINISH: TBD
NUMBER: TBD
NOTE: 30" DEEP
 - L2 MANUFACTURER: DURCON / WILSONART
TYPE: GREENSTONE EPOXY RESIN
FINISH: LOW GLOSS MATTE
COLOR: BLACK ONYX
NOTE: 30" DEEP

FINISH NOTES

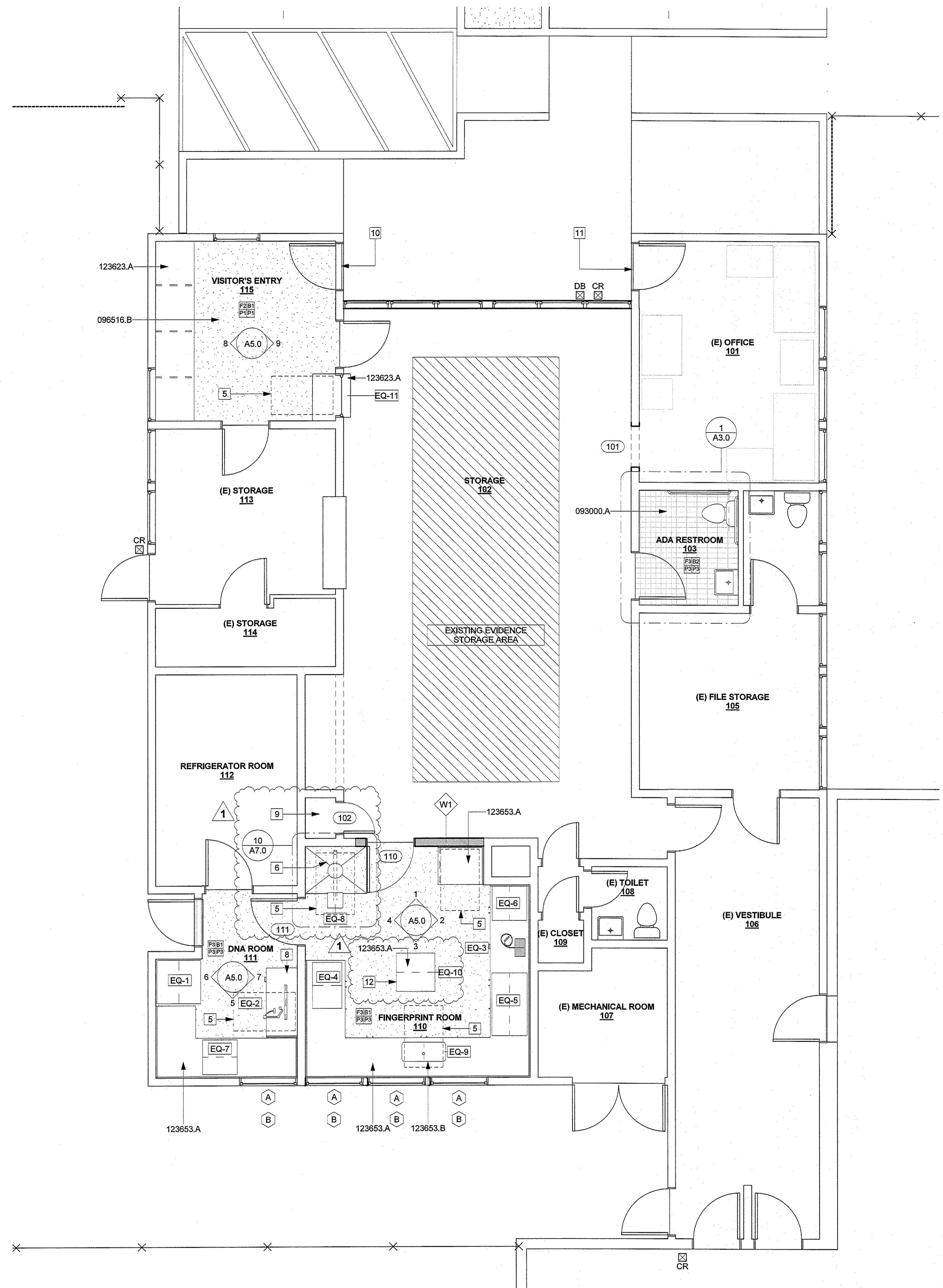
- A. PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES.
- B. SET FLOORING TRANSITIONS CENTERED BELOW DOOR IN CLOSED POSITION AT DOOR FRAME OPENINGS.
- C. FLOOR FINISH IS CONTINUOUS UNDER ALL COUNTERTOPS AND FIXTURES, TYPICAL.
- D. REFER TO REFLECTIVE CEILING PLAN FOR CEILING FINISH INFORMATION.

Schedule - Equipment

Mark	Type	Equipment Supplier	Model	Sched Note:
EQ-1	Flammable Storage Cabinet	Arrowhead Forensics	To Be Supplied By Owner	
EQ-2	FSIS Color Lab	Arrowhead Forensics	To Be Supplied By Owner	
EQ-3	Tracer Compact Laser	Arrowhead Forensics	To Be Supplied By Owner	
EQ-4	Ductless Downflow Workstation	Arrowhead Forensics	To Be Supplied By Owner	
EQ-5	Ducted Fume Hood	Labconco	To Be Supplied By Owner	
EQ-6	Capture BT Fuming Chamber	Arrowhead Forensics	To Be Supplied By Owner	
EQ-7	DNA Dryer	Arrowhead Forensics	To Be Supplied By Owner	
EQ-8	Emergency Shower	Owner selected, Contractor Installed	To Be Verified by Owner, Contractor Supplied	
EQ-9	Epoxy Resin Sink	Durcon	Undermount Sink #66	
EQ-10	LAB CART 30"x30"	TBD	To Be Supplied By Owner	
EQ-11	PASS THRU	Owner selected, Contractor Installed	To Be Supplied By Owner	

HAZARDOUS MATERIAL SCHEDULE

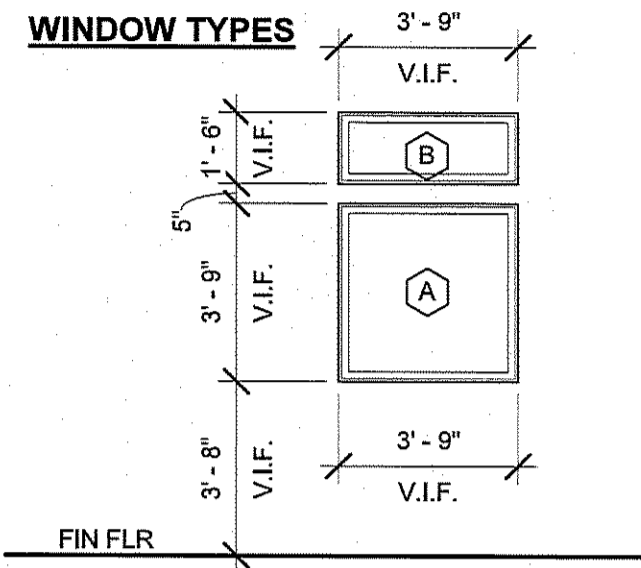
Product	Amount	Storage	Hazards
CYANOACRYLATE ESTER FORMULA	3oz	Under Counter Cabinet	None Under Normal Conditions
NINHYDRIN FORMULA	8-16oz	Flammable Storage Cabinet	Flammable
RHODAMINE 6G	1-2MI	Under Counter Cabinet	None Under Normal Conditions
1,2-INDANEDIONE FORMULA	100-200MI	Under Counter Cabinet	Skin Irritation
D.F.O. FORMULA	1L	Flammable Storage Cabinet	Flammable / Skin Irritation
ARDROX FORMULA	500MI	Flammable Storage Cabinet	Flammable / Skin Irritation
PHYSICAL DEVELOPER FORMULA	2 Bottle Set 32Oz / 50MI	Under Counter Cabinet	Skin / Eye Irritation
SMALL PARTICLE REAGENTFORMULA	1500MI	Under Counter Cabinet	Skin / Eye Irritation
SILVER NITRATE FORMULA	8oz	Flammable Storage Cabinet	Flammable / Skin Irritation
AMIDO BLACK	500MI	Flammable Storage Cabinet	Flammable / Skin Irritation
SUDAN BLACK FORMULA	30g	Under Counter Cabinet	None Under Normal Conditions
WET POWDER / WET WOP (black)	200MI	Under Counter Cabinet	None Under Normal Conditions
STICKY-SIDE POWDER FORMULA	50g	Flammable Storage Cabinet	Flammable / Skin Irritation



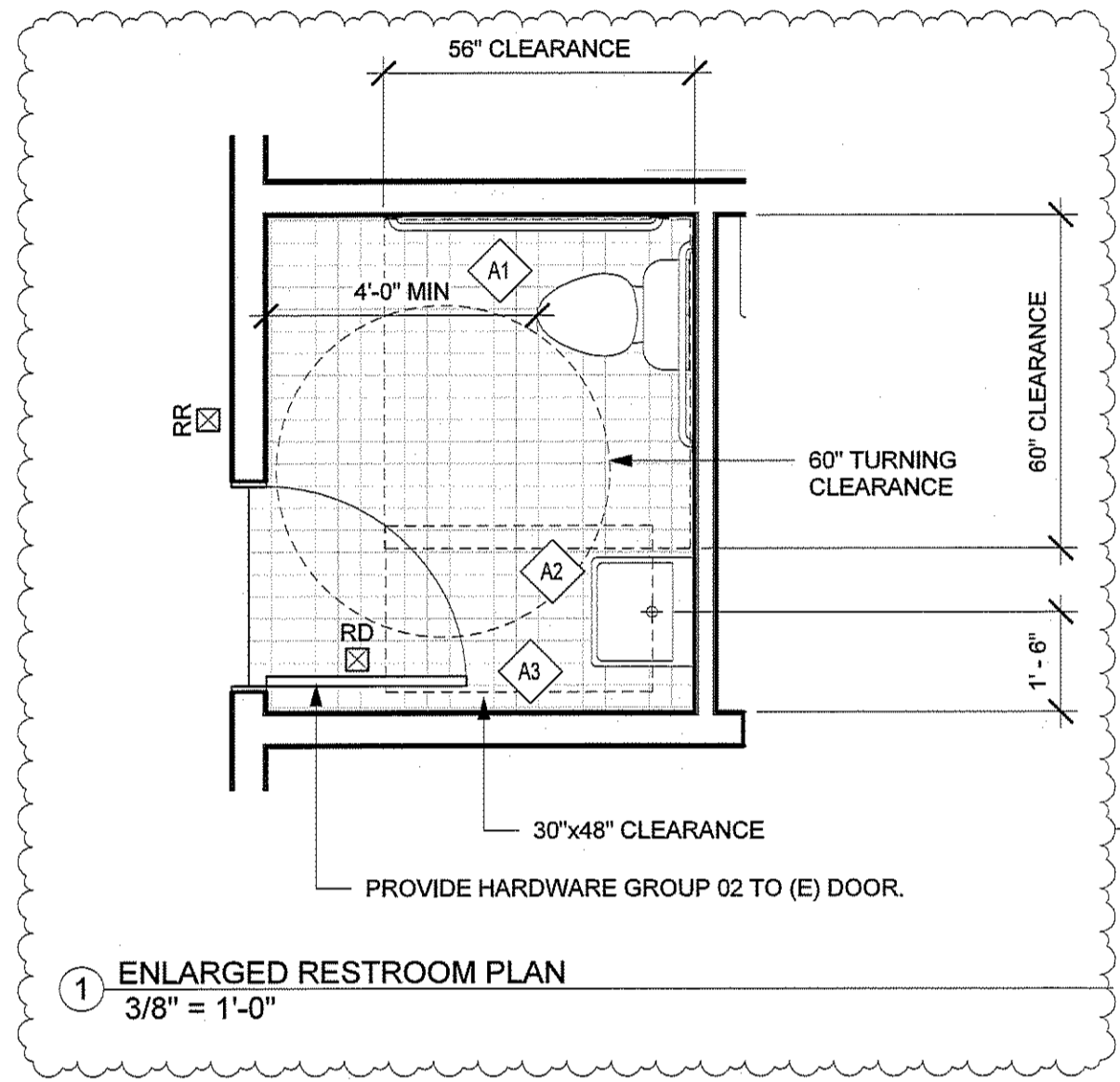
WINDOW SCHEDULE

Schedule - Windows						
Mark	Description	Size	Detail			Sched. Note
			Head	Jamb	Sill	
A	Fixed Vinyl Dual Glazed	45" x 45"	5/A/7.0	6 & 7/A/7.0	8/A/7.0	1,2,3
B	Fixed Vinyl Dual Glazed	18" x 45"	5/A/7.0	6 & 7/A/7.0	9/A/7.0	1,2,3

- SCHEDULE NOTES:**
- VERIFY FRAME OPENING BEFORE ORDERING REPLACEMENT WINDOW.
 - REPLACE EXISTING GLASS WITH DUAL PANED GLAZING, (E) FRAME TO REMAIN, PATCH & REPAIR FRAME AND PREP ALL SURFACES FOR PAINT.
 - GLAZING: 1/4" INSULATED UNIT WITH: (SHGC = .27 U-FACTOR = .32) EXTERIOR LITE: LOW-E, TEMPERED GLAZING
AIR SPACE: AIR
INBOARD LITE: CLEAR



REPLACEMENT WINDOW
MILGARD PICTURE WINDOW 1 5/8"
CONTOUR Z BAR SERIES 8370 OR EQUAL

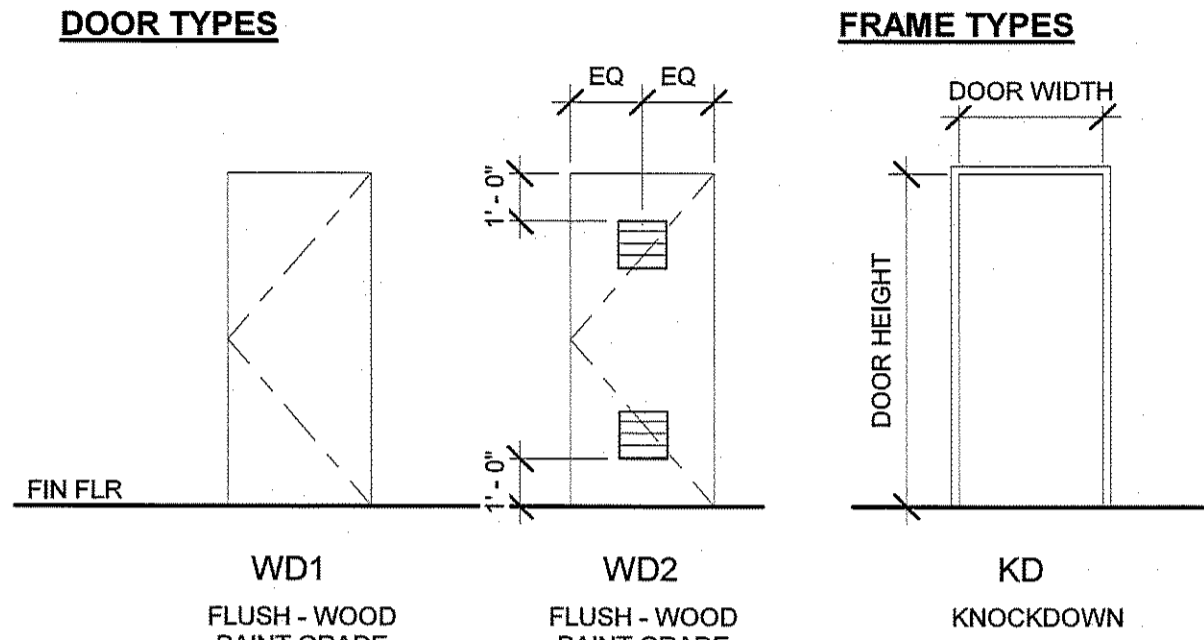


1 ENLARGED RESTROOM PLAN
3/8" = 1'-0"

DOOR SCHEDULE

Schedule - Doors										
Mark	Door Size	Finish	Frame Type	Door Type	Hardware Group	Details			Sched Note:	
						Head	Jamb	Sill		
101	32" x 80" OPNG	P2	KD	WD2	3	1/A/7.0	2/A/7.0	3/A/7.0	1	
102	24" x 80"	P2	KD	WD2	3	1/A/7.0	2/A/7.0	3/A/7.0	1	
110	36" x 80"	P2	KD	WD1	1	1/A/7.0	2/A/7.0	3/A/7.0	2	

- SCHEDULE NOTES:**
- PROVIDE 12"x12" VENTS AT TOP & BOTTOM OF THIS DOOR.
 - AIR TIGHT SEALS AT DOORS PERIMETER



DOOR HARDWARE

- 01
 - (1) DOOR STOP
 - (1) LEVER LOCK SET (COMMERCIAL GRADE WITH 'C' KEY WAY)
 - (3) 4 1/2 HINGES
 - (1) GASKETING (HEAD AND JAMB)
 - (1) KICKPLATE
- 02
 - (1) LEVER LOCK SET (COMMERCIAL GRADE WITH 'C' KEY WAY)
 - (1) CLOSER
 - (3) 4 1/2 HINGES (FINISH TO MATCH OTHER HINGES IN THE AREA)
 - (1) KICK PLATE
- 03
 - (1) LEVER LOCK SET (COMMERCIAL GRADE WITH 'C' KEY WAY)
 - (3) 4 1/2 HINGES (FINISH TO MATCH OTHER HINGES IN THE AREA)
 - (1) KICK PLATE

BASIS OF DESIGN

DOOR FRAME TYPE

BASIS OF DESIGN - KNOCK DOWN FRAME
TIMELY A DIVISION OF S.D.S INDUSTRIES, INC.

- WINDOW & DOOR FRAME
- T8-28 ALUMINUM CASING
- BLACK

WINDOW TYPE

BASIS OF DESIGN - REPLACEMENT WINDOW
MILGARD

- WINDOW FRAME
- VINYL CASING
- GRAY

GENERAL NOTES

- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- ALL DOORS AND HARDWARE SHALL BE INSTALLED IN STRICT COMPLIANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 24 (ACCESS CODE) AND THE FEDERAL AMERICANS WITH DISABILITIES ACT GUIDELINES (ADAAG).
- EXIT DOORS SHALL BE ABLE TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS, EXCEPT FIRE DOORS WHICH MAY HAVE A MAXIMUM EFFORT OF 15 LBS. APPLIED AT RIGHT ANGLES TO THE DOOR PER CBC 1133B.2.2.
- ALL HARDWARE SHALL BE LEVER TYPE OR PANIC TYPE MOUNTED AT HEIGHT INDICATED IN THE SPECIFICATIONS AND SHALL BE MOUNTED NOT LESS THAN 30" OR HIGHER THAN 44" ABOVE FINISHED FLOOR.
- DOOR CLOSER SHALL BE ADJUSTED SUCH THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE A MINIMUM OF THREE SECONDS TO MOVE 3" FROM THE LATCH MEASURED FROM THE LEADING EDGE OF THE DOOR.
- RATED DOORS CAN BE UNDERCUT A MAXIMUM OF 3/4" PER NFPA80 4.8.4.1, BUT SHALL BE 1/4" UNLESS APPROVED OTHERWISE.
- RATED DOORS AND FRAMES SHALL BEAR AN APPROVED "S" RATED LABEL, PER CBC SECTION 1004.3.4.3.2.M. THE NAME OF THE MANUFACTURER AND THE IDENTIFICATION OF MATERIALS AND WORKMANSHIP AT THE FACTORY. REFER TO SPECIFICATIONS.
- WHEN ADDITIONAL DOORS ARE PROVIDED FOR EGRESS PURPOSES, THEY SHALL COMPLY WITH ALL PROVISIONS OF CBC 1008.
- RATED ASSEMBLIES SHALL HAVE TIGHT-FITTING SMOKE AND DRAFT CONTROL WHEN TESTED IN ACCORDANCE WITH CBC SECTION 715.
- SAFETY GLAZING SHALL BE PROVIDED AS NOTED HEREIN, AND IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE SECTION 2406.
- PROVIDE MINIMUM 1" SOLID KICKPLATE PANEL AT ALL HINGED DOORS U.N.O. PER SECTIONS 1004.8.1, TITLE 24.



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Proj. No.: 2018006

Date: 12/11/2018

Scale: As indicated

Drawn By: JMT

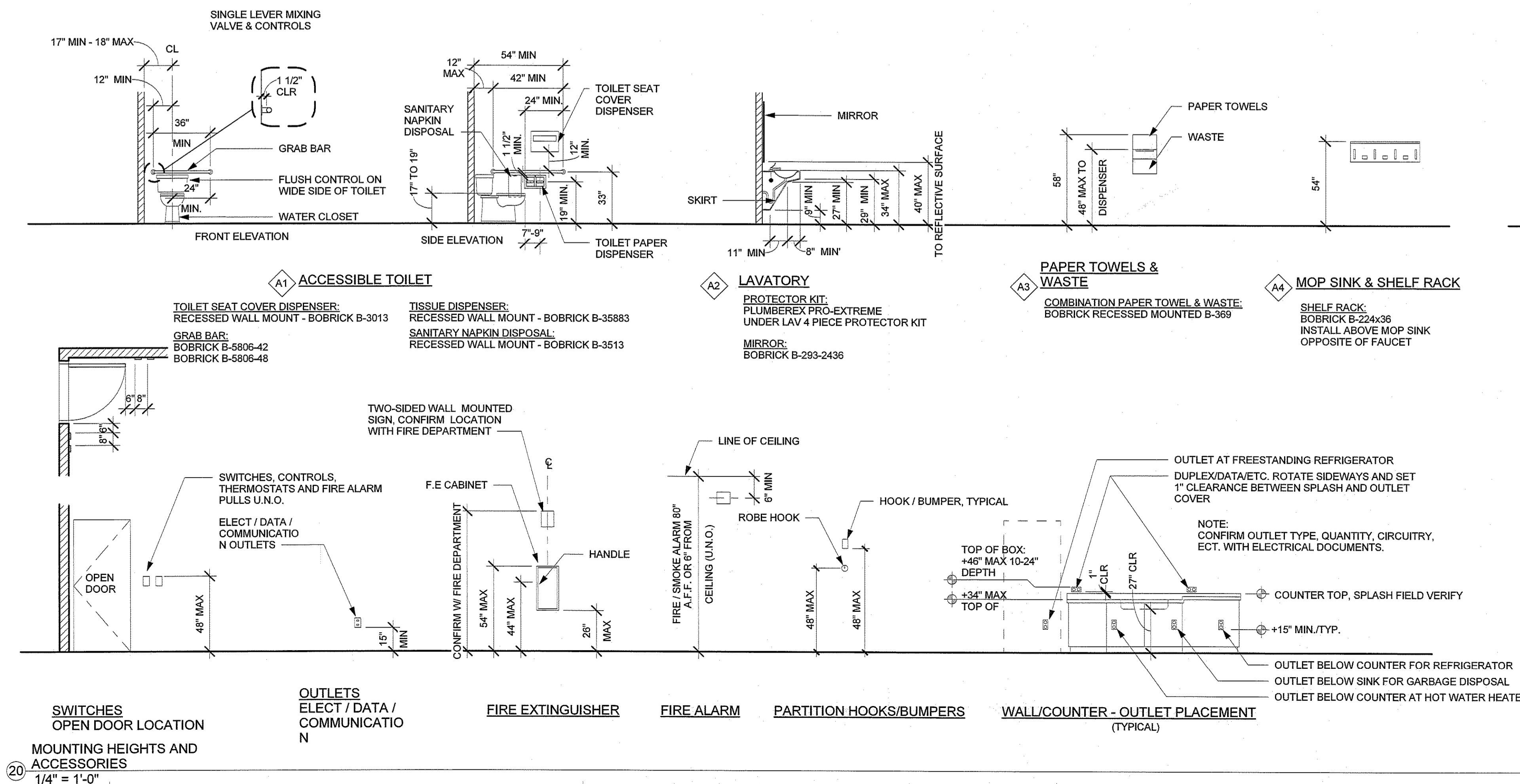
Revisions:

No.	Description	Date
1	Plan review	1/31/2019

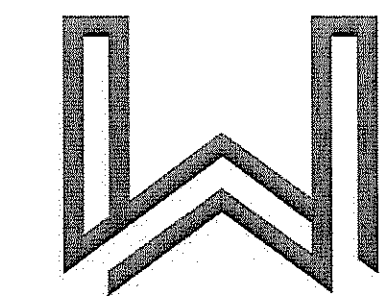
Drawing Title:
**RESTROOM,
SCHEDULES &
ACCESSORIES**

Drawing Number:

A3.0



20 MOUNTING HEIGHTS AND ACCESSORIES
1/4" = 1'-0"



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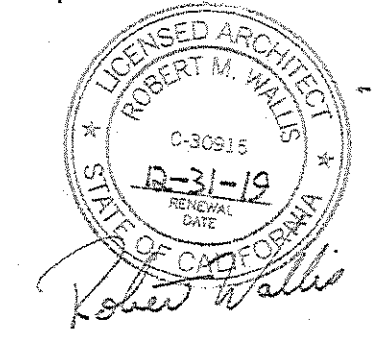
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Scale: As indicated

Drawn By: JMT

Revisions:

No.	Description	Date

Drawing Title:

INTERIOR
ELEVATIONS
JOB SET

Drawing Number:

A5.0

2/7/2019 9:06:37 AM

LEGEND

- ① FOR INTERIOR WINDOW TYPES REFER TO SCHEDULE ON SHEET A3.1.
- ⑩① FOR INTERIOR DOOR TYPES REFER TO SCHEDULE ON SHEET A3.1.
- # FOR FINISHES REFER TO FINISH LEGEND ON SHEET A2.1
- EQ FOR EQUIPMENT REFER TO EQUIPMENT SCHEDULE ON A2.1
- CW 01 ← CASEWORK MARK - REFER TO CASEWORK SCHEDULE BELOW
- 100 ← CDC SERIES NUMBER, WOODWORK INSTITUTE MANUAL
- 30" 24" 30" ← CABINET SIZE (WIDTH, HEIGHT, DEPTH)

GENERAL NOTES

- A. REFER TO ARCHITECTURAL WOODWORK STANDARDS CASEWORK DESIGN SERIES (CDS) FOR ADDITIONAL INFORMATION.
- B. FIELD VERIFY ROUGH OPENING DIMENSION PRIOR TO FABRICATING CASEWORK. REVIEW ANY REQUIRED ADJUSTMENTS TO HEIGHT, DEPTH OR WIDTH OF CASEWORK UNITS WITH ARCHITECT.
- C. OPERABLE PARTS SHALL BE WITHIN A 48 INCH MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE 10-INCHES OR LESS AND AT 48 INCHES MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE BETWEEN 10-24 INCHES.
- D. PROVIDE LOCKS ON CABINET DOORS PER OWNERS' INSTRUCTIONS.

Schedule - Casework						
Mark	Description	Width	Height	Depth	CDS	Sched. Note:
01	Countertop Brace	3/4"	1'-6"	2'-4"	193	
02	Base Cabinet w/o Drawers	3'-0"	2'-8 1/2"	2'-6"	112	L1 1
03	Base Cabinet w/ Drawers	1'-9"	2'-8 1/2"	2'-6"	254	L1 1
04	Base Cabinet w/o Drawers	3'-0"	2'-8 1/2"	2'-6"	112	L1 1
05	Base Cabinet w/o Drawers	4'-8"	2'-8 1/2"	2'-6"	176	L1 1
06	Base Cabinet w/o Drawers	2'-3"	2'-8 1/2"	2'-6"	101	L1 1
07	Base Cabinet w/o Drawers	4'-0"	2'-8 1/2"	2'-6"	152	L1 1
08	Base Cabinet w/o Drawers	3'-0"	2'-8 1/2"	2'-6"	112	L1 1
09	Base Cabinet w/o Drawers	4'-8"	2'-8 1/2"	2'-6"	176	L1 1
10	Base Cabinet w/o Drawers	3'-0"	2'-8 1/2"	2'-6"	112	L1 1
11	Base Cabinet w/o Drawers	4'-8"	2'-8 1/2"	2'-6"	112	L1 1
12	Base Cabinet w/o Drawers	4'-8"	2'-8 1/2"	2'-6"	176	L1 1
13	Countertop Brace	3/4"	1'-6"	2'-4"	193	
14	Countertop Brace	3/4"	1'-6"	2'-4"	193	
15	Countertop Brace	3/4"	1'-6"	2'-4"	193	

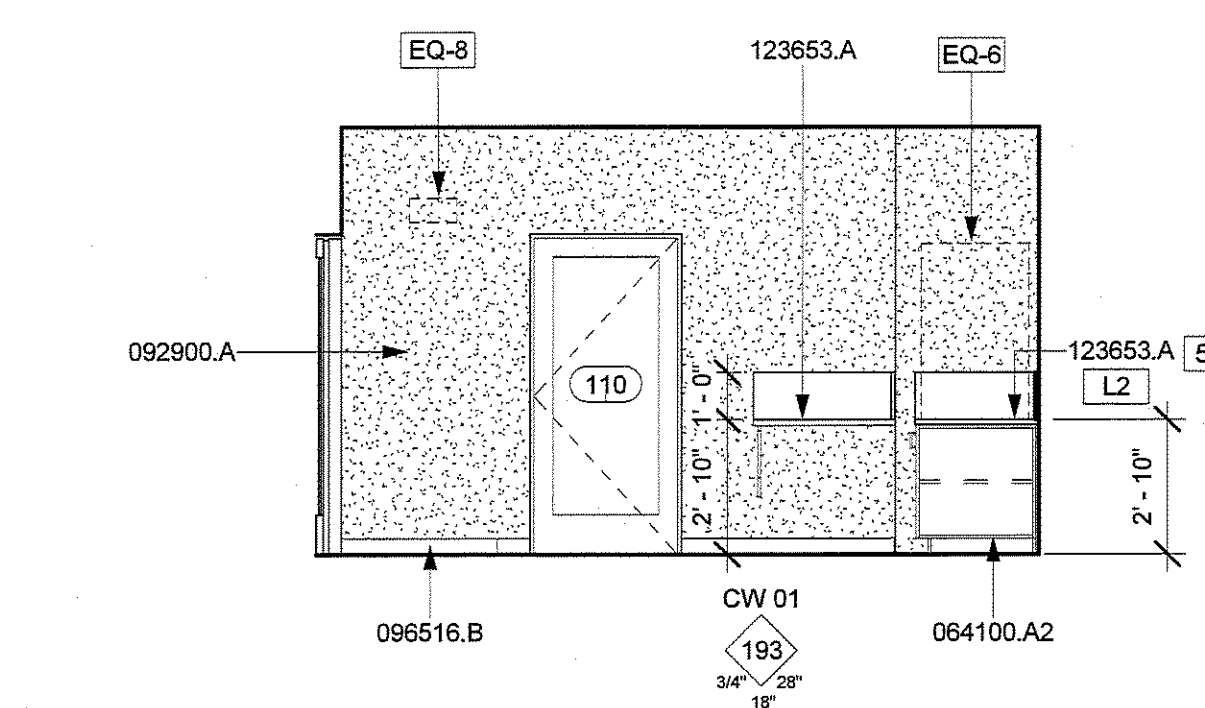
- SCHEDULE NOTES:
- LAMINATE FRAMES AND DOORS WITH MELAMINE INTERIORS. CONTRACTOR TO SUPPLY COLOR SAMPLES (FORMICA, WILSONART OR APPROVED EQUAL). CHROME RECESSED HINGES.

KEYNOTES

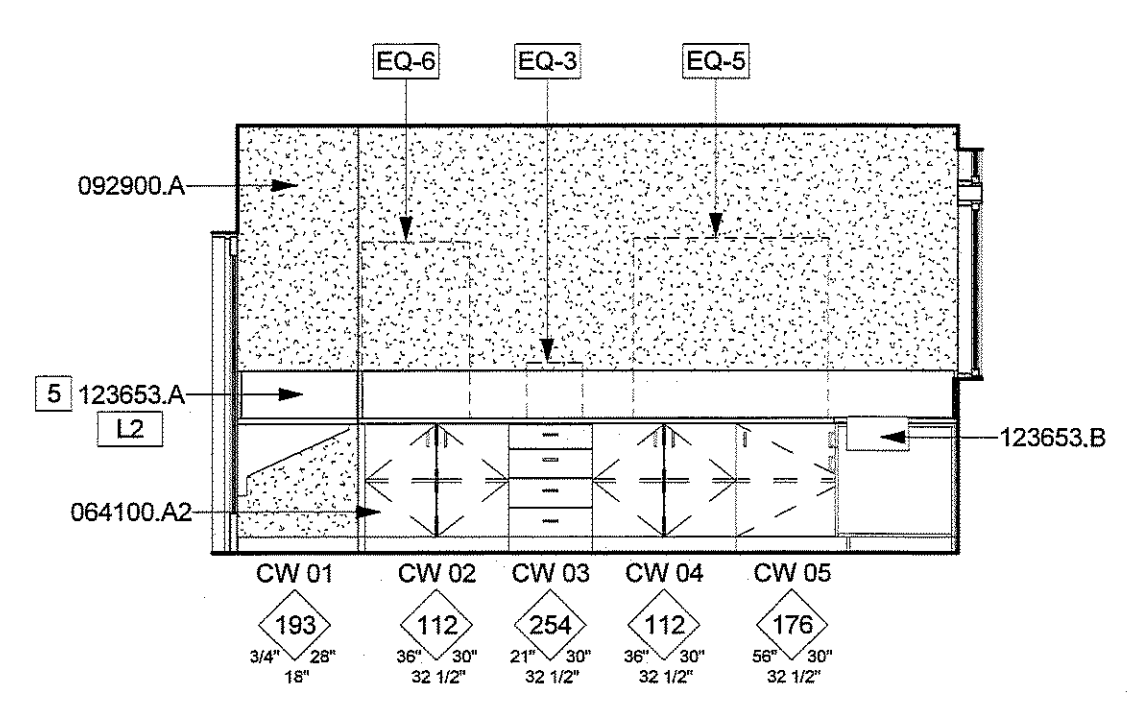
- 064100.A2 BASE CABINET: PLASTIC LAMINATE FINISH
- 092900.A GYPSUM BOARD AND ACCESSORIES
- 096516.B VINYL SHEET FLOORING ASSEMBLY
- 099123.B INTERIOR PAINTING: LATEX, INTERIOR
- 099123.B3 INTERIOR PAINTING: LATEX, INTERIOR SEMI-GLOSS
- 123623.A COUNTERTOP: PLASTIC LAMINATE FINISH
- 123653.A EPOXY RESIN COUNTERTOP ASSEMBLY
- 123653.B EPOXY RESIN SINK ASSEMBLY

SHEET NOTES

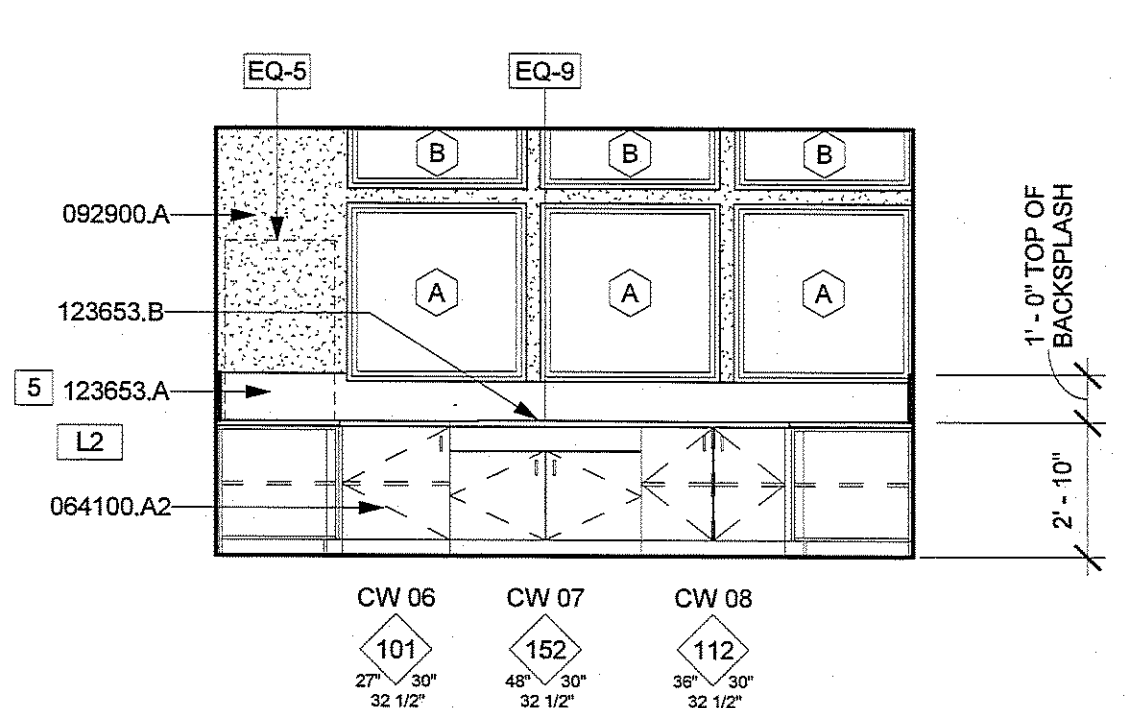
- PROVIDE WALL ATTACHMENT TO SUPPORT COUNTERTOP AT EACH END.
- SECURE PASS THRU PROVIDED BY TENANT INSTALLED BY CONTRACTOR.
- SINK PROVIDED BY OWNER INSTALLED BY CONTRACTOR
- UNDERCOUNTER REFRIGERATOR PROVIDED BY TENANT
- BLACK, PHENOLIC RESIN BASED COUNTERTOPS WITH BULLNOSED SAFETY EDGE, 1 1/2" NOSING & 12" BACKSPLASH.



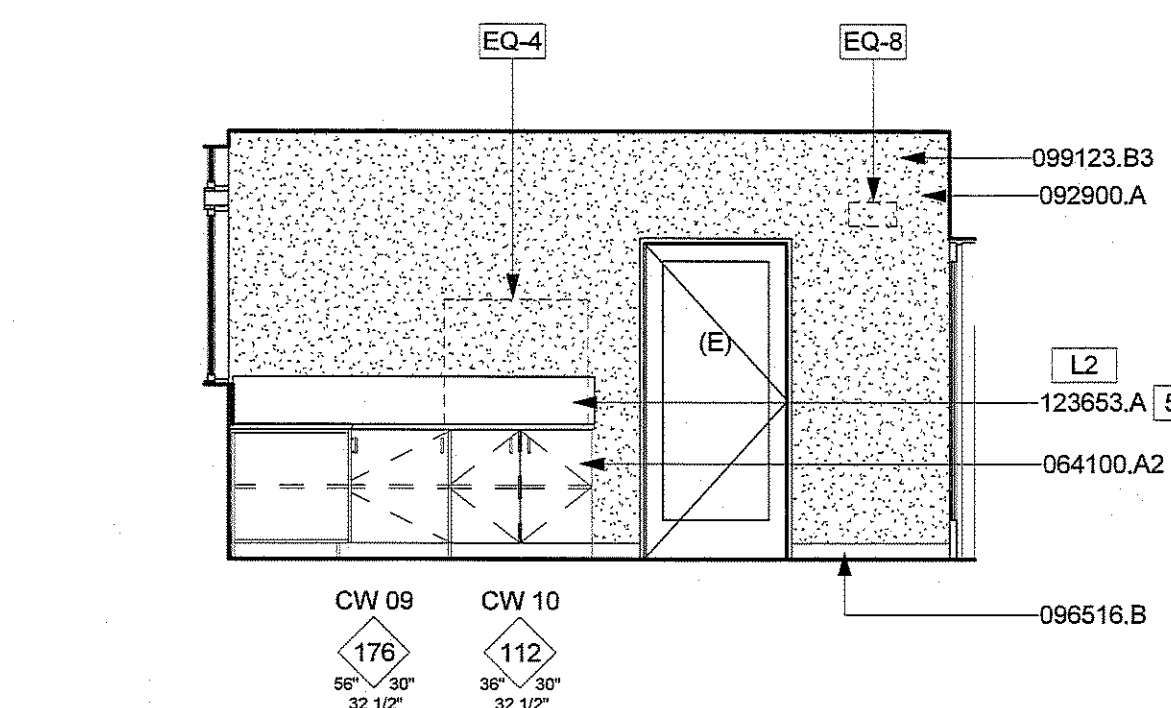
1 FINGERPRINT - a
1/4" = 1'-0"



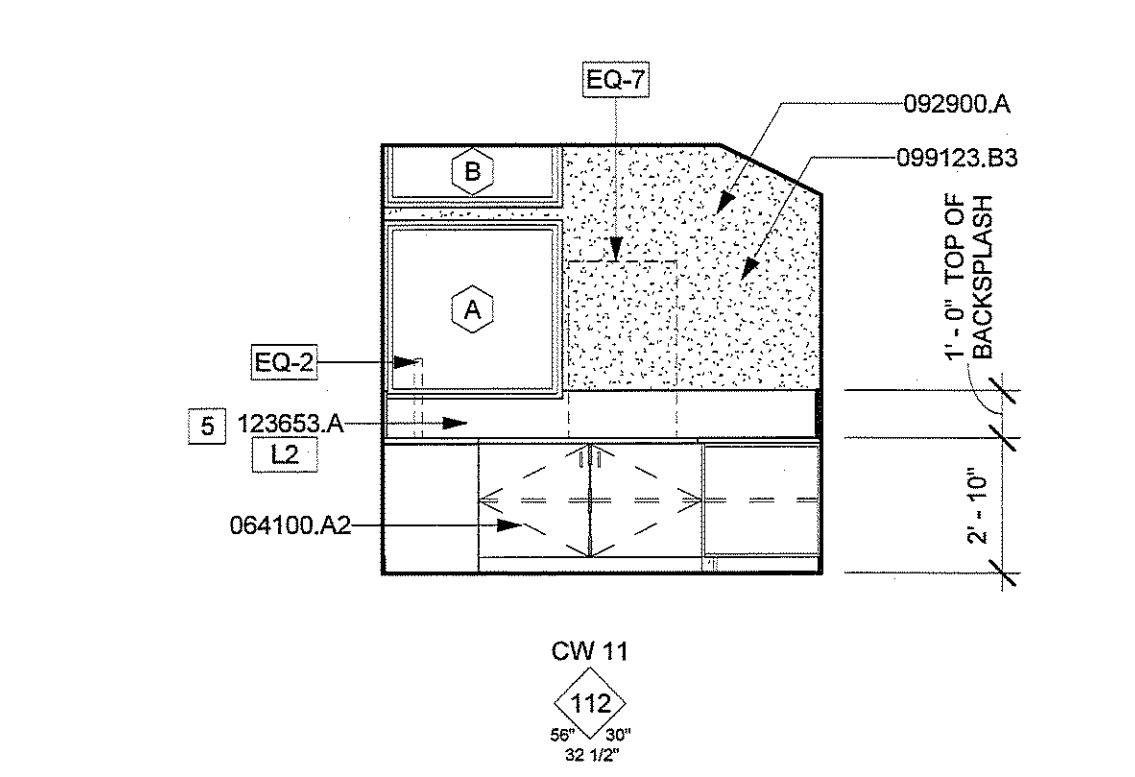
2 FINGERPRINT - b
1/4" = 1'-0"



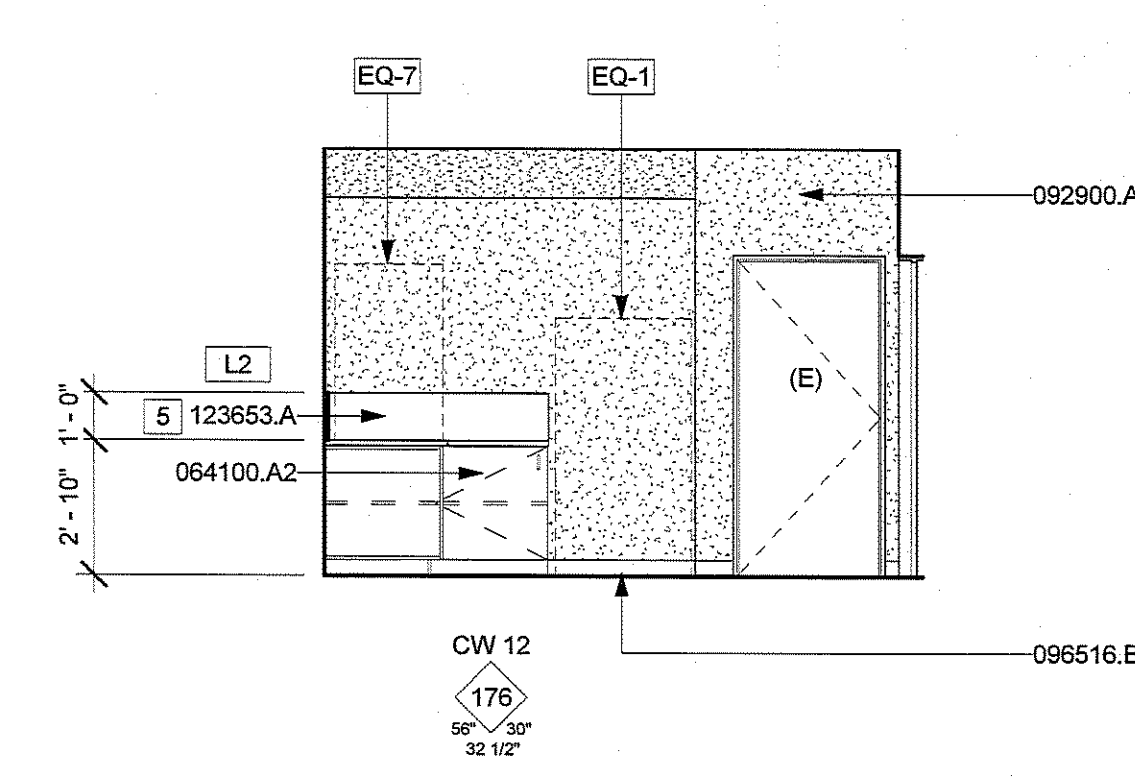
3 FINGERPRINT - c
1/4" = 1'-0"



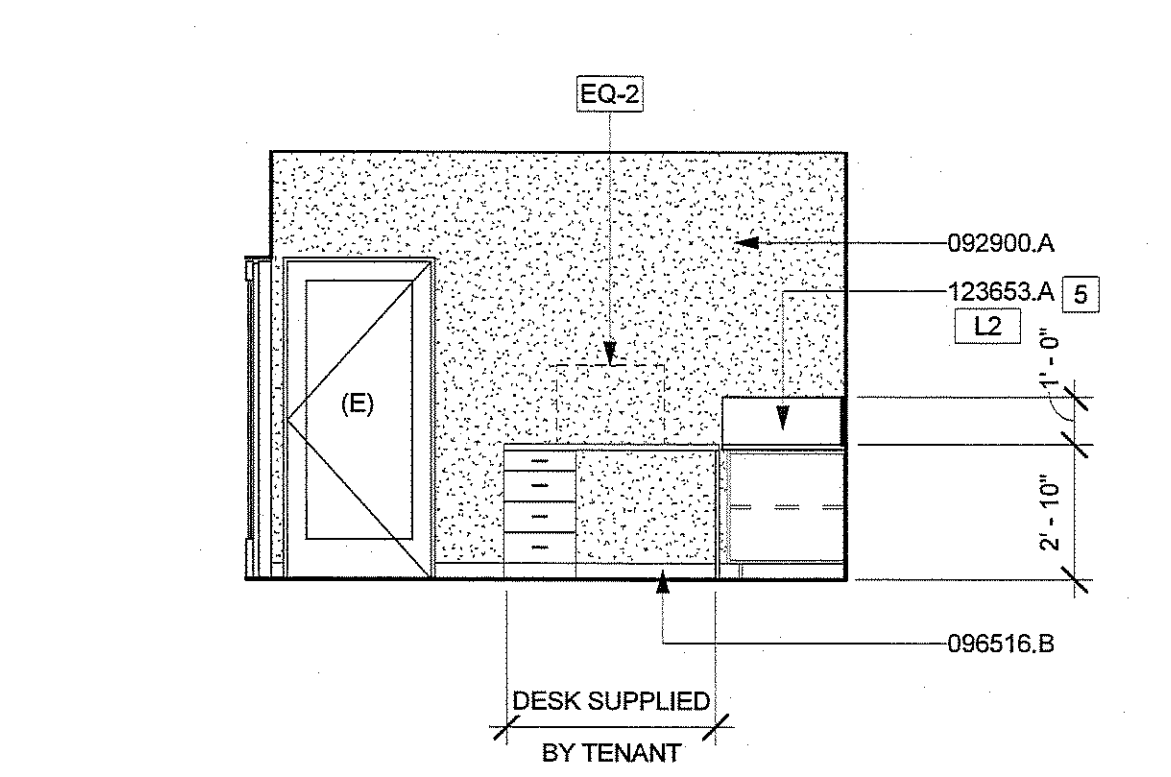
4 FINGERPRINT - d
1/4" = 1'-0"



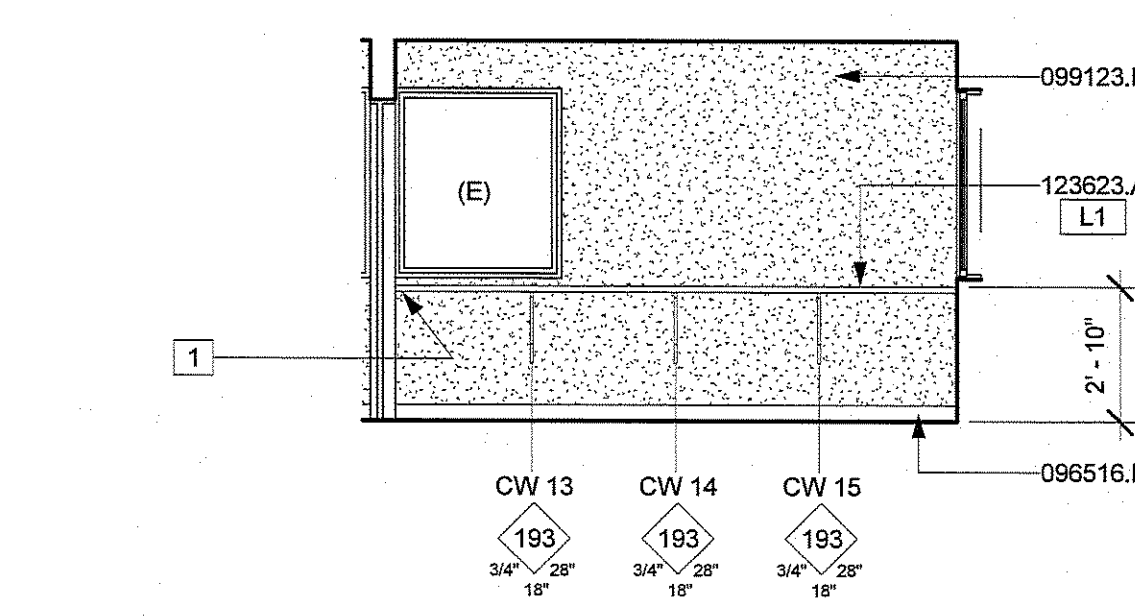
5 DNA - a
1/4" = 1'-0"



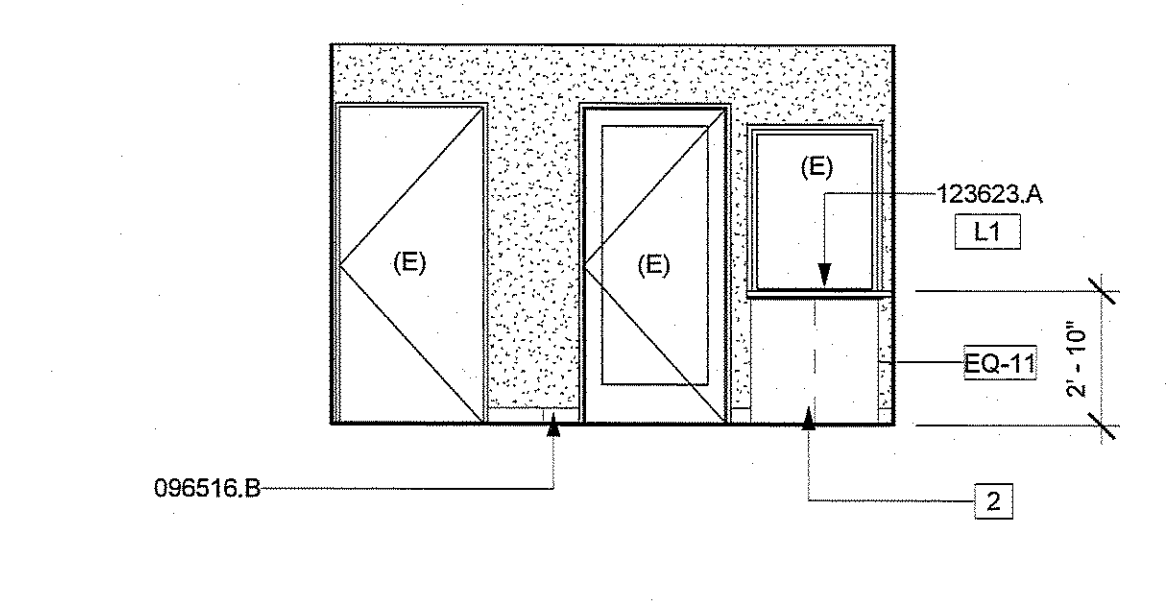
6 DNA - b
1/4" = 1'-0"



7 DNA - d
1/4" = 1'-0"

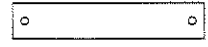







8 VISITOR'S ENTRY - a
1/4" = 1'-0"



9 VISITOR'S ENTRY - c
1/4" = 1'-0"

LEGEND

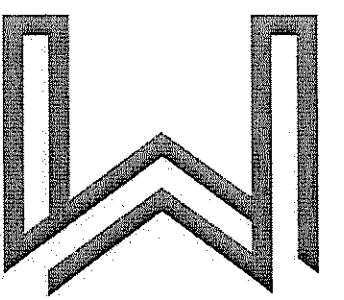
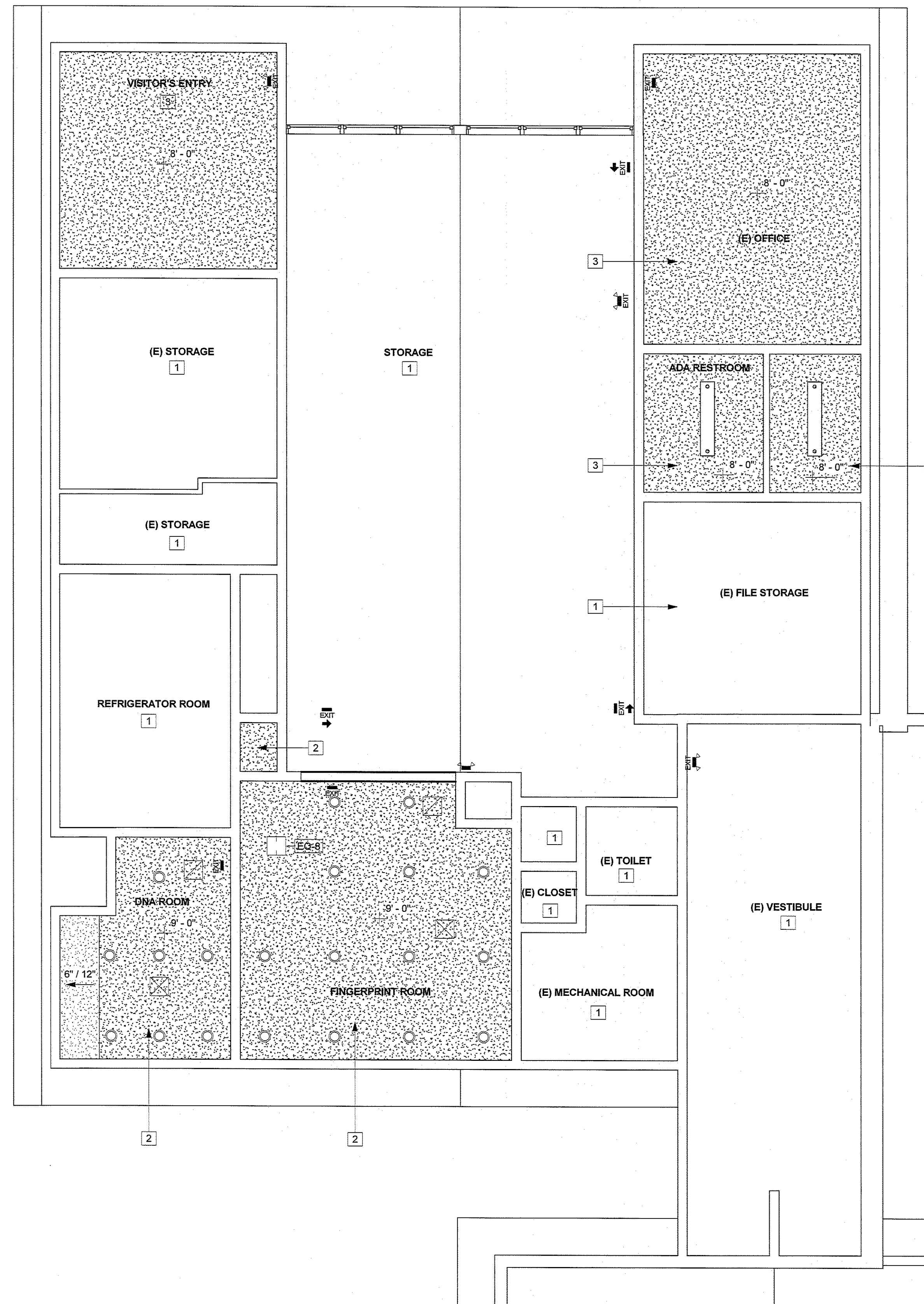
-  SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
-  EXHAUST FAN
-  ILLUMINATED EXIT SIGN
-  EMERGENCY EGRESS LIGHTING
-  ILLUMINATED EXIT SIGN W/ EMERGENCY LIGHTING
-  RECESSED DOWNLIGHTS, SEE ELECTRICAL DRAWINGS

GENERAL NOTES

- A. EQUIPMENT ON THIS SHEET FOR REFERENCE ONLY. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR FURTHER INFORMATION AND SPECIFICATIONS.
- B. MECHANICAL AND ELECTRICAL SYSTEMS ARE EXISTING, UNO.
- C. SEE A2.1 FOR CEILING FINISHES.

SHEET NOTES

- 1. (E) CEILING TO REMAIN.
- 2. NEW GWS CEILING TO (E) WOOD FRAMING.
- 3. PATCH & REPAIR (E) CEILING TO RECEIVE NEW FINISH.



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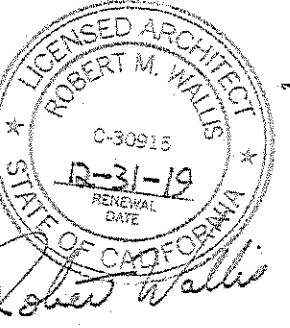
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Date: 12/11/2018

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

Drawn By: JMT

Revisions:

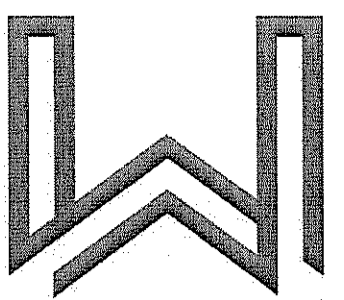
No.	Description	Date

Drawing Title:

REFLECTED
CEILING PLAN
JOB SET

Drawing Number:

A6.0



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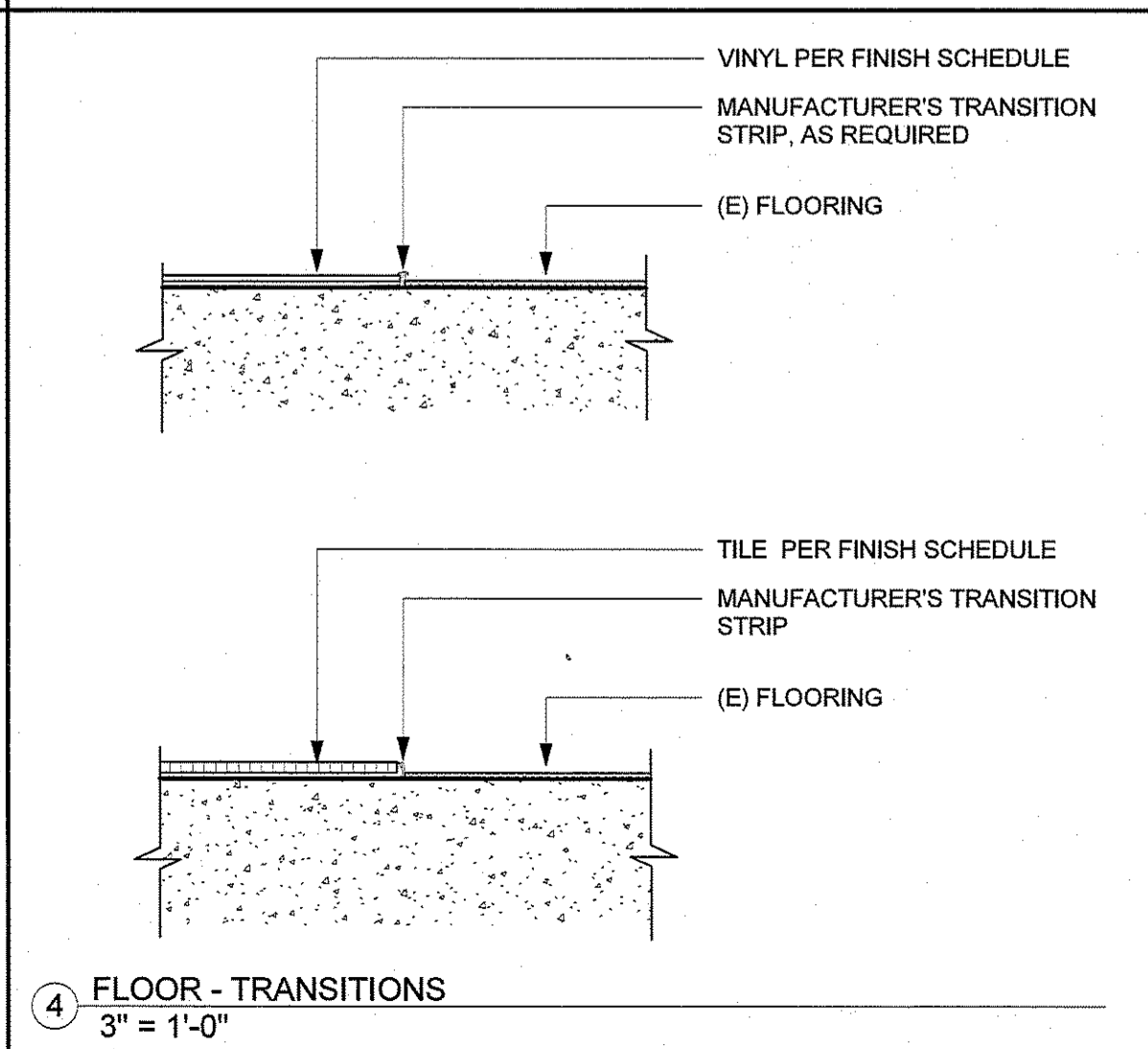
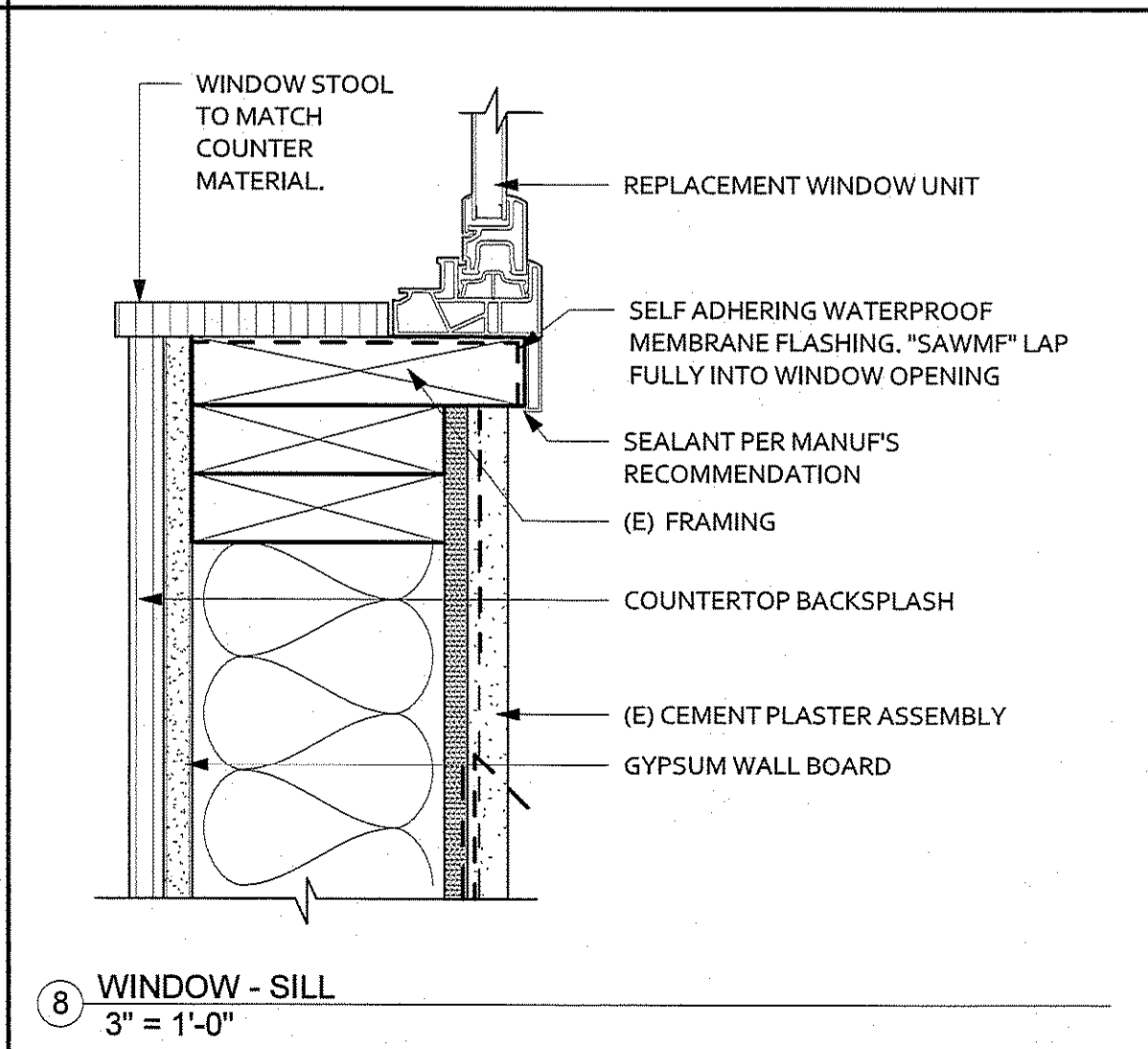
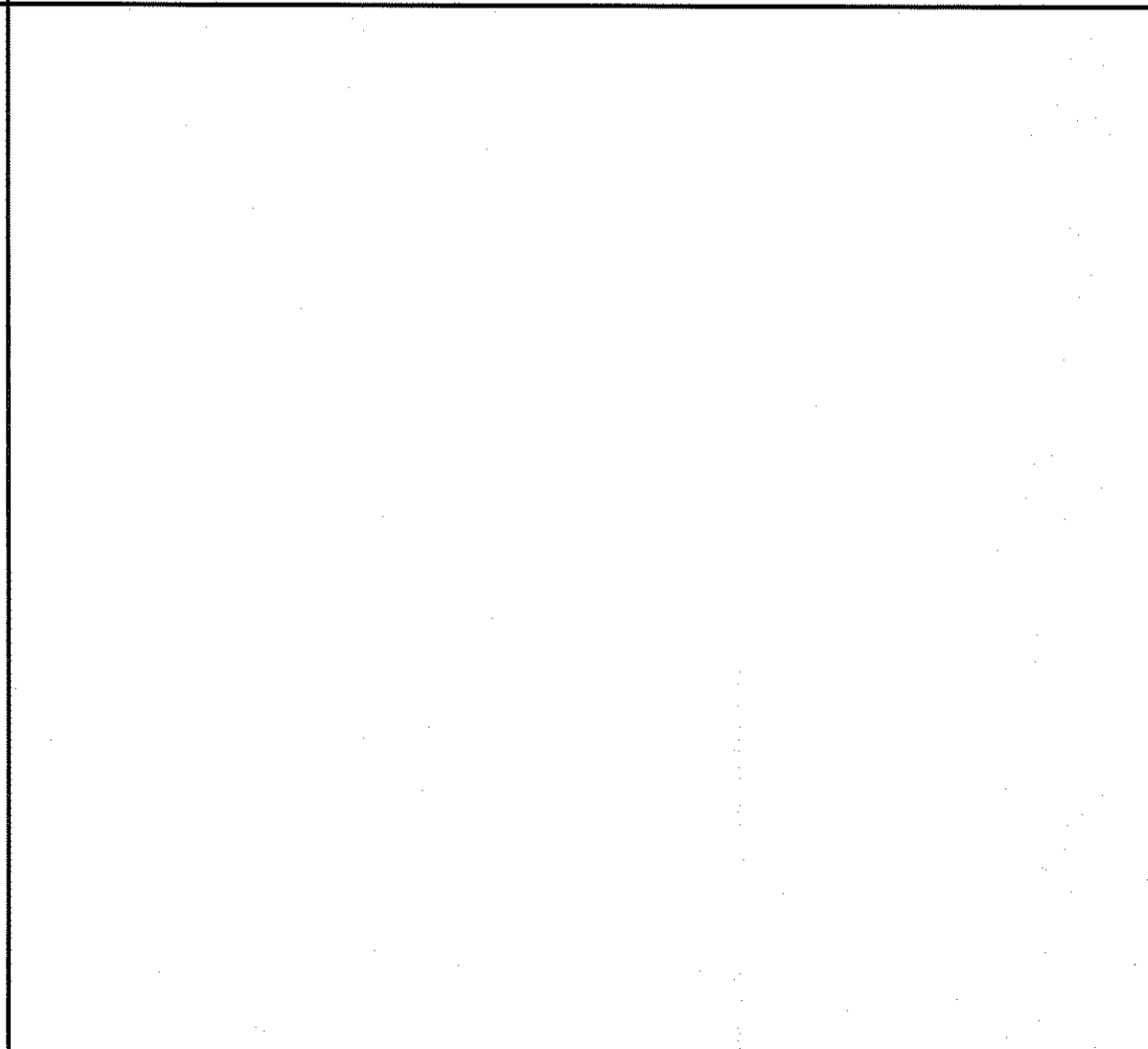
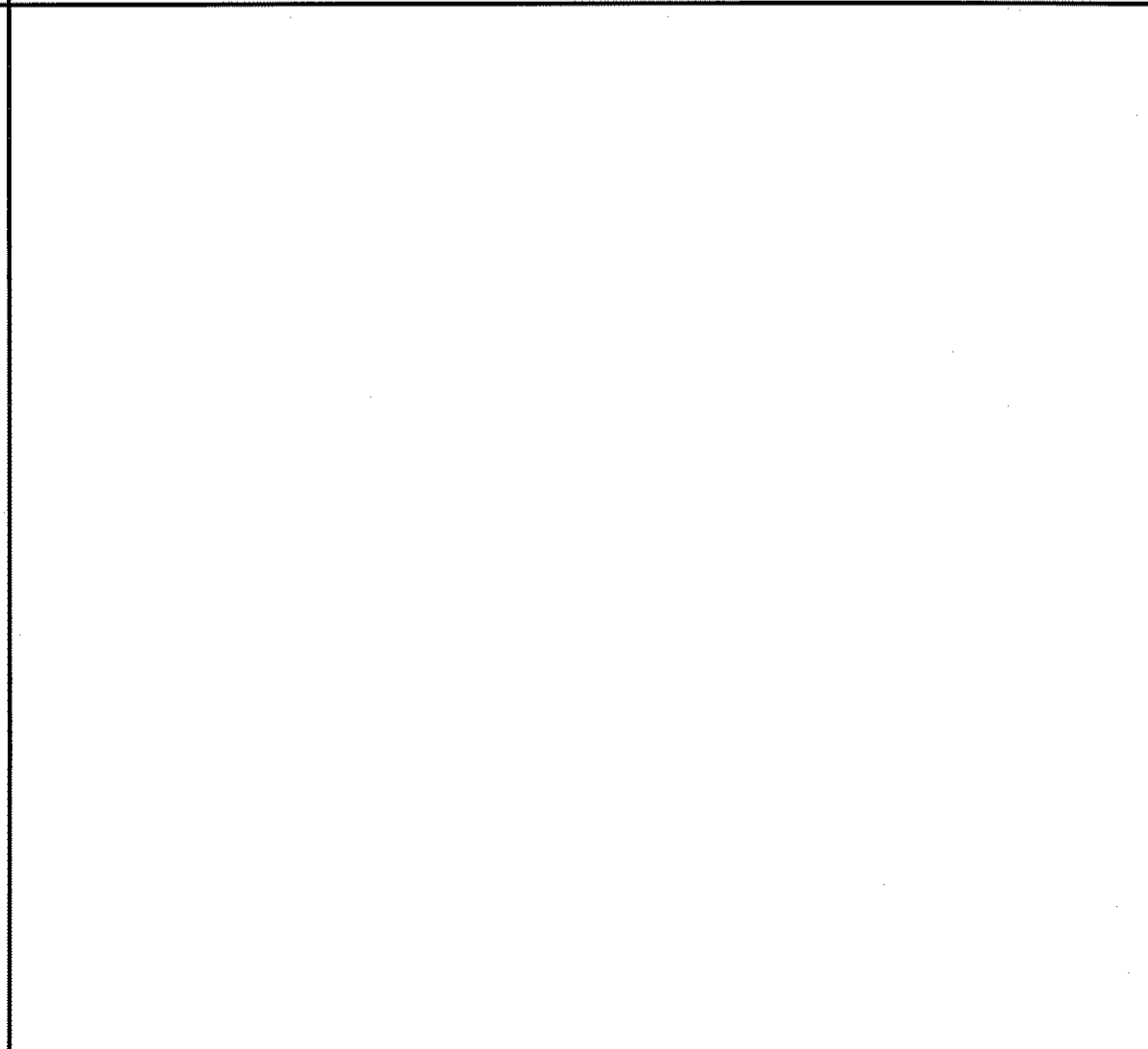
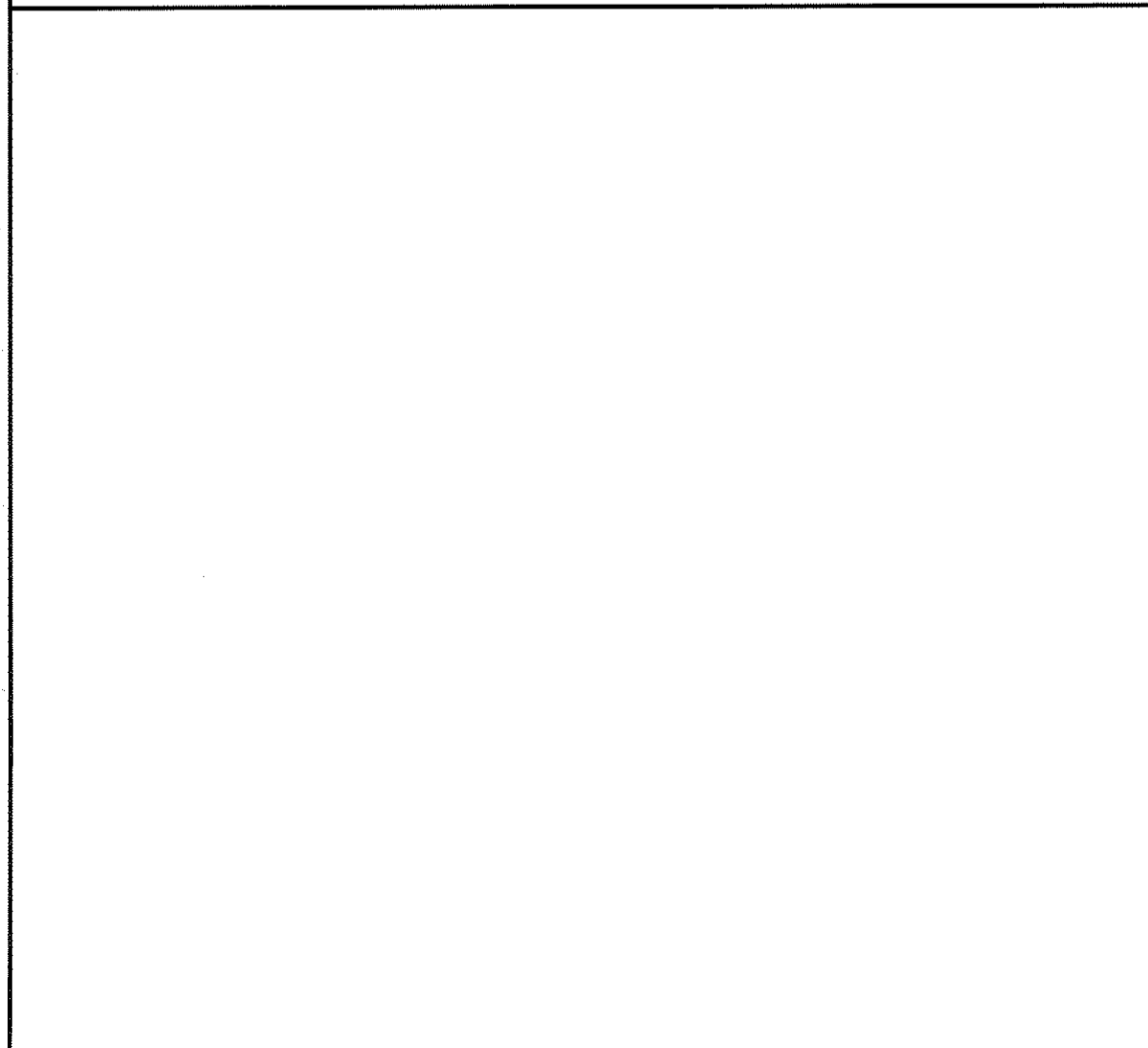
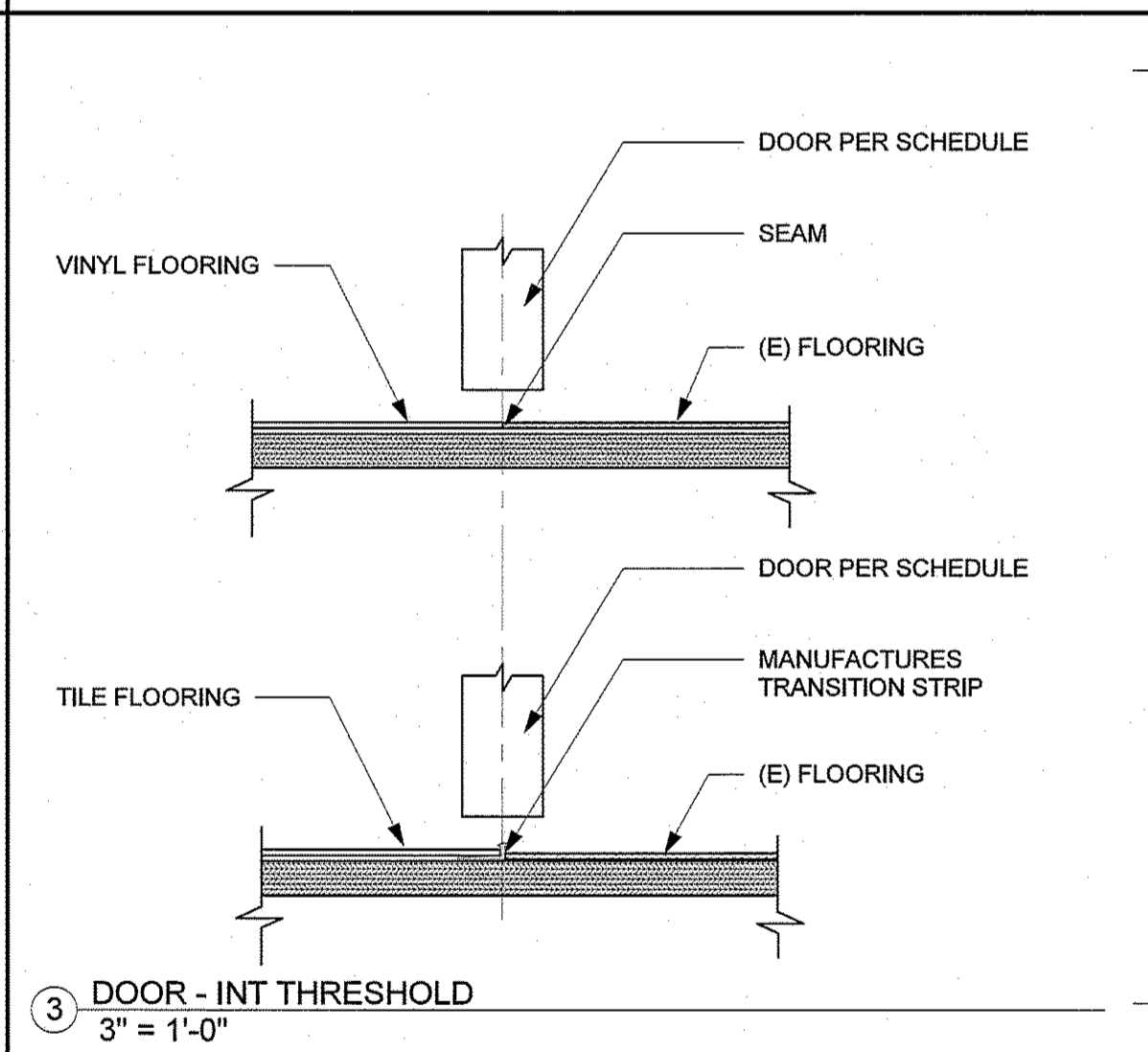
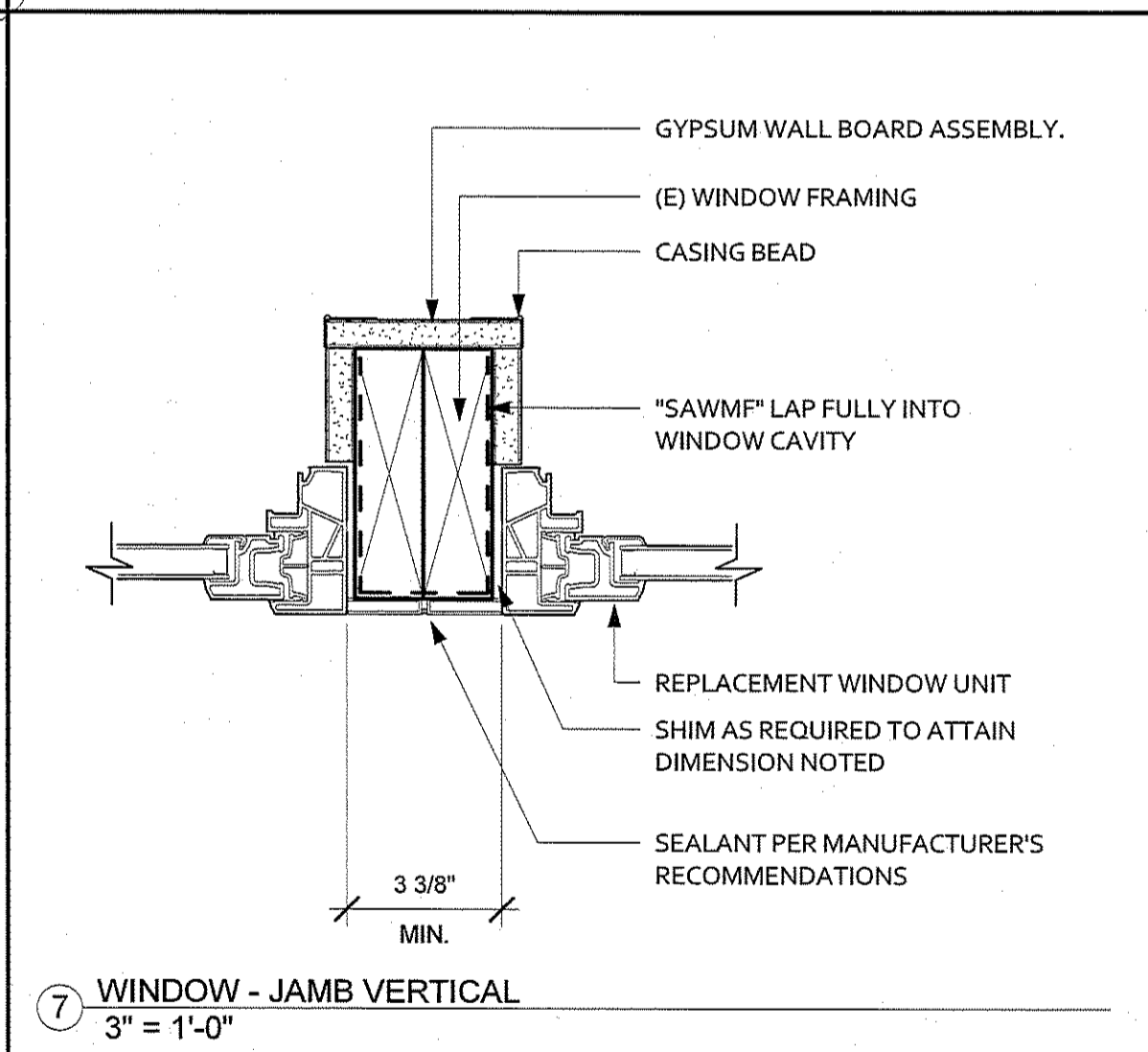
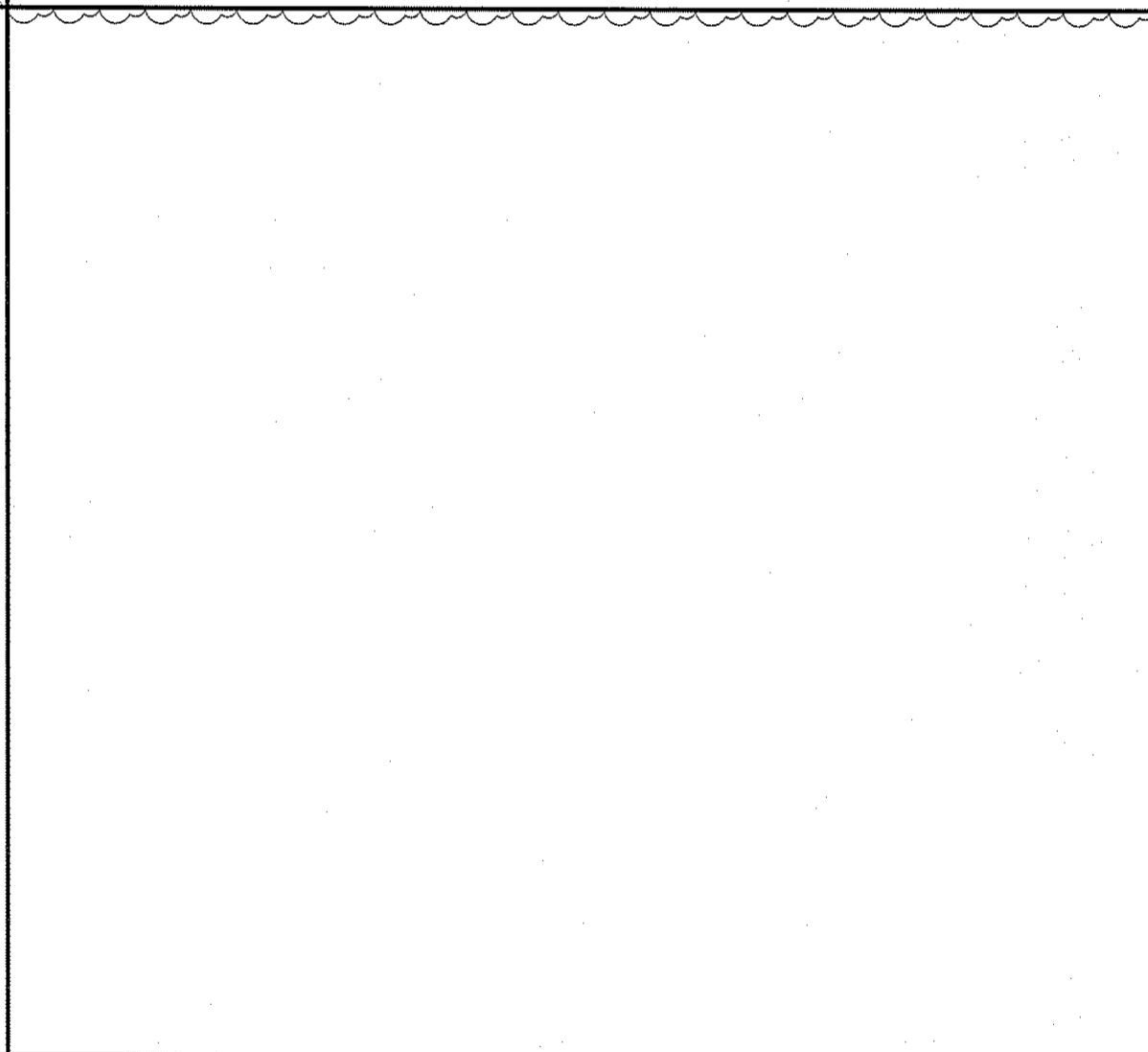
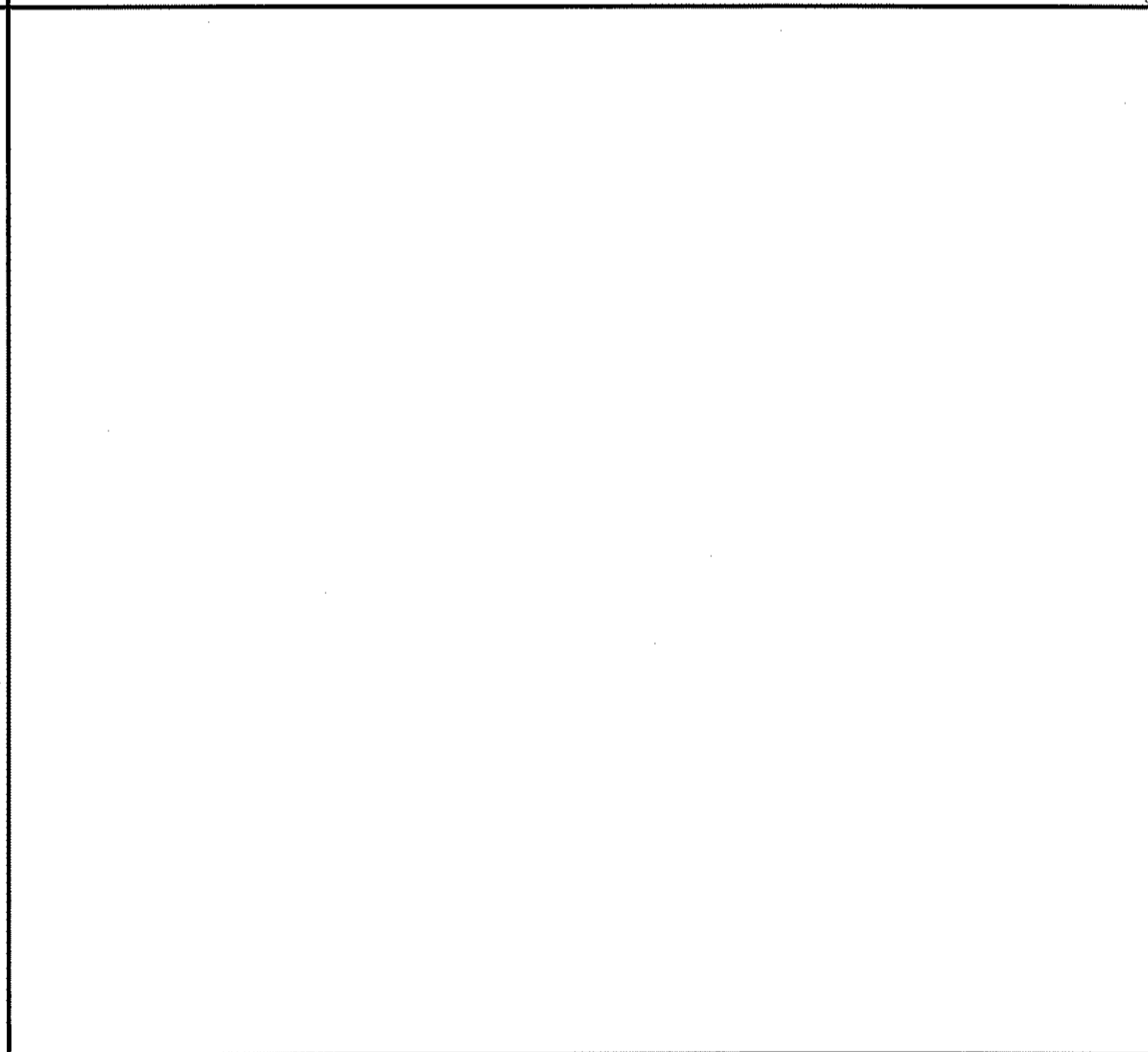
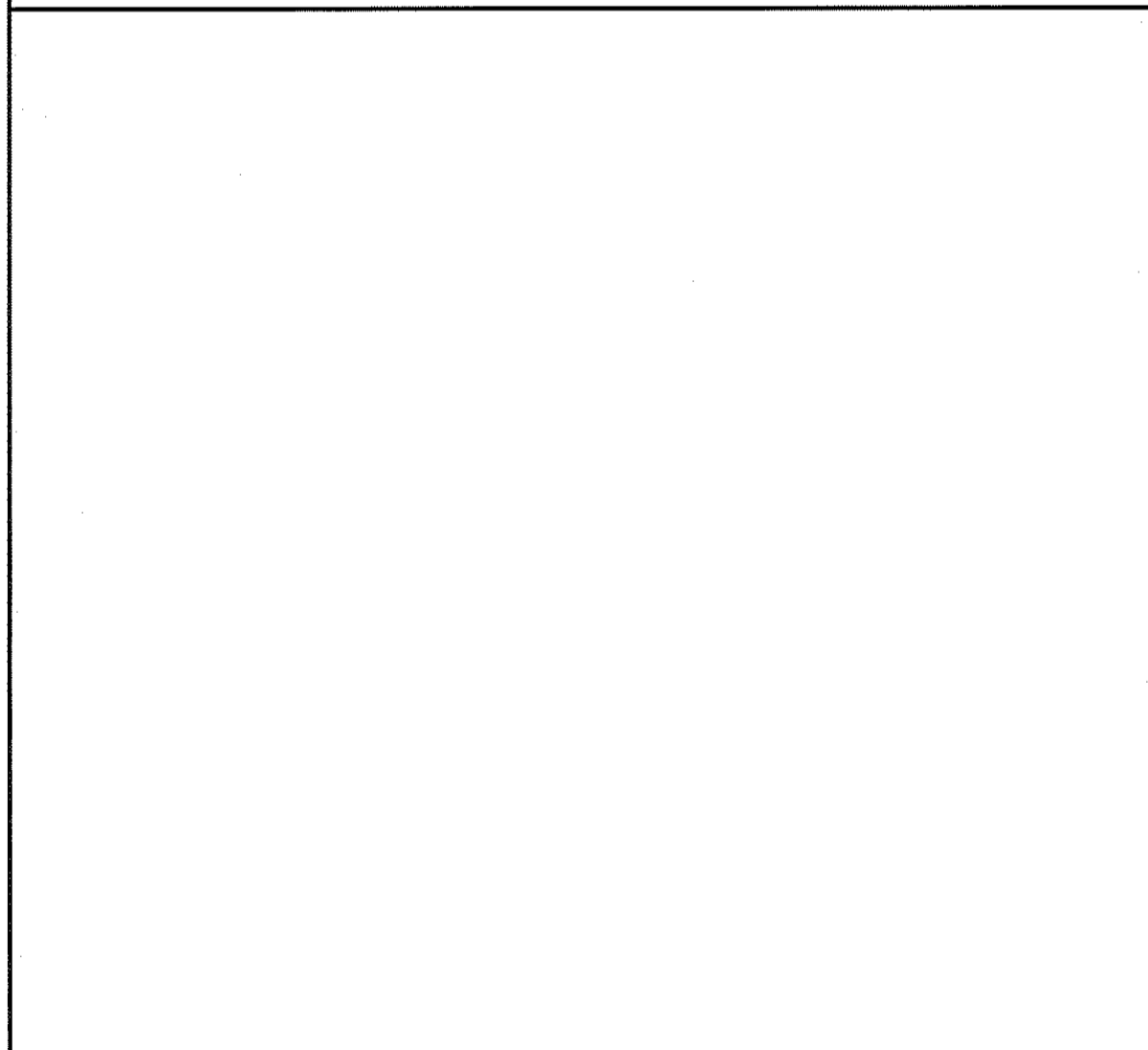
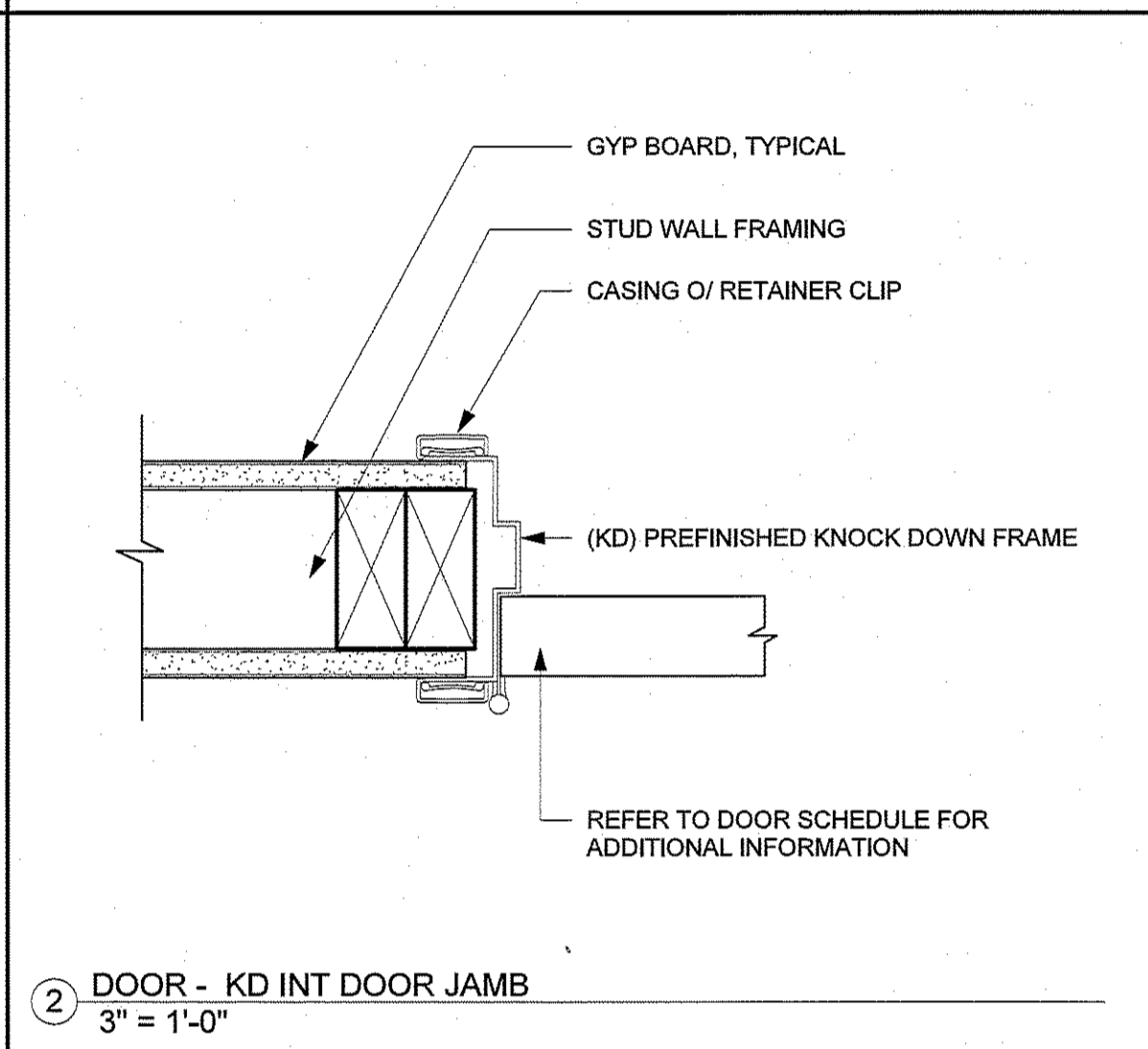
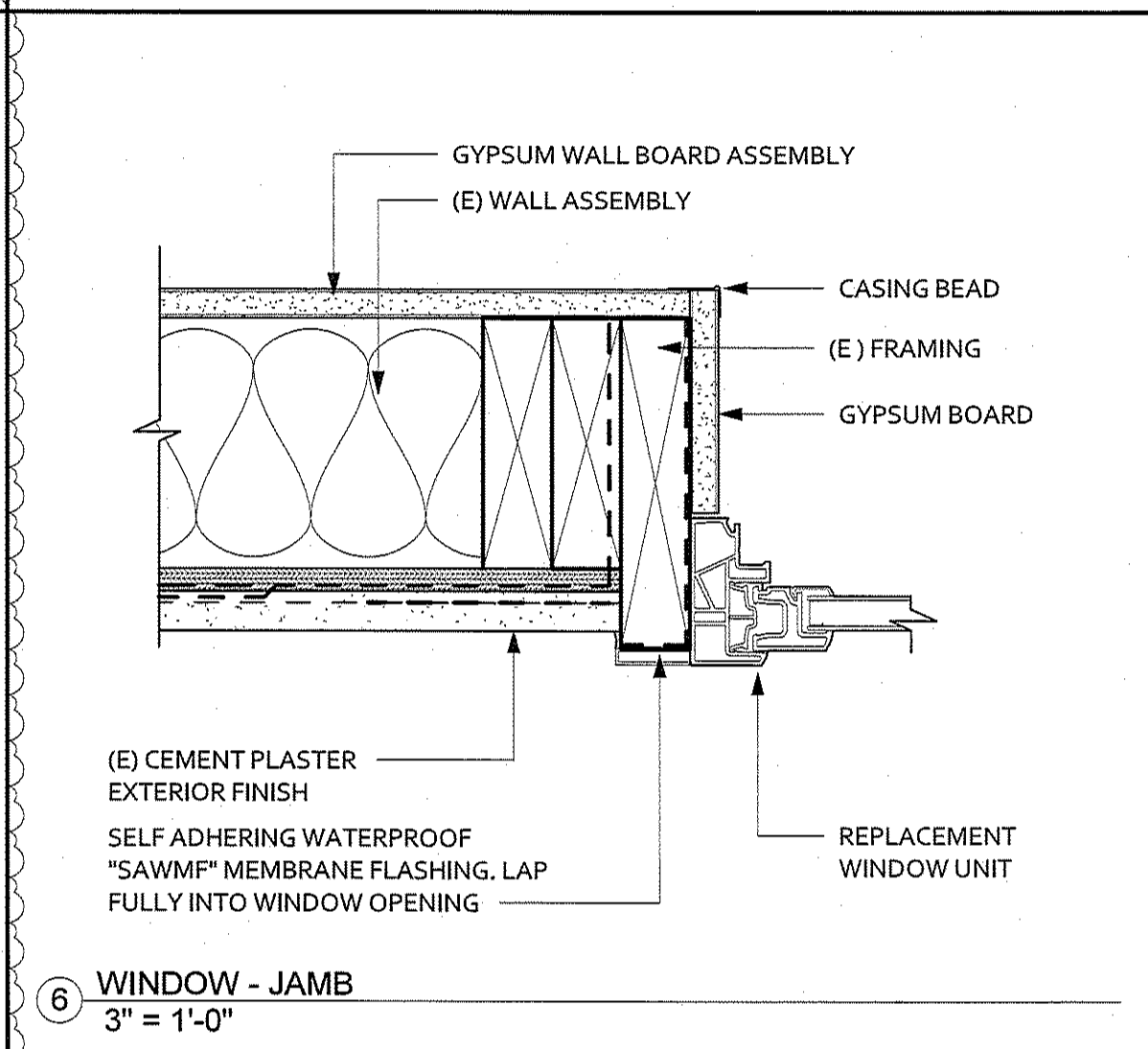
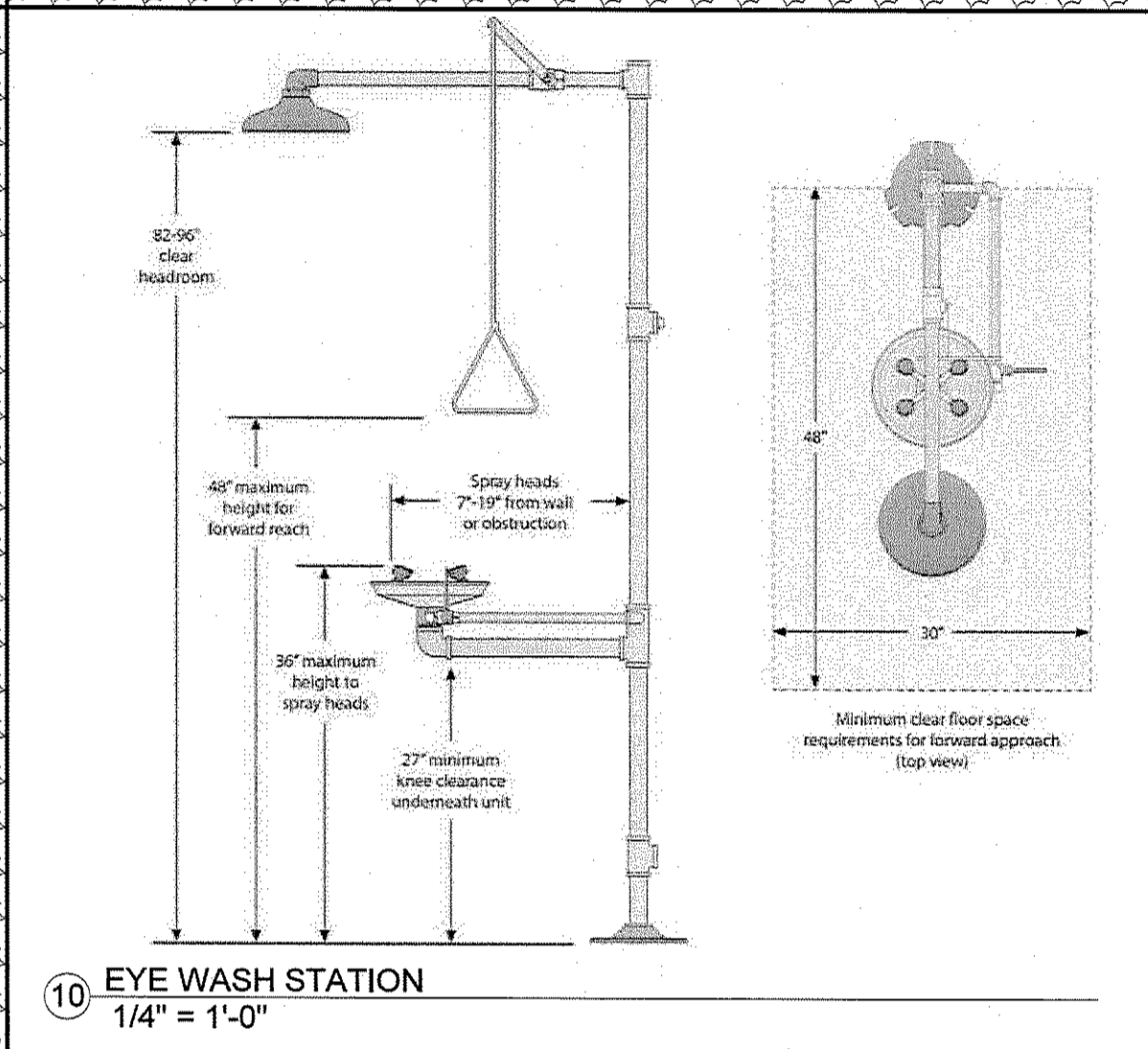
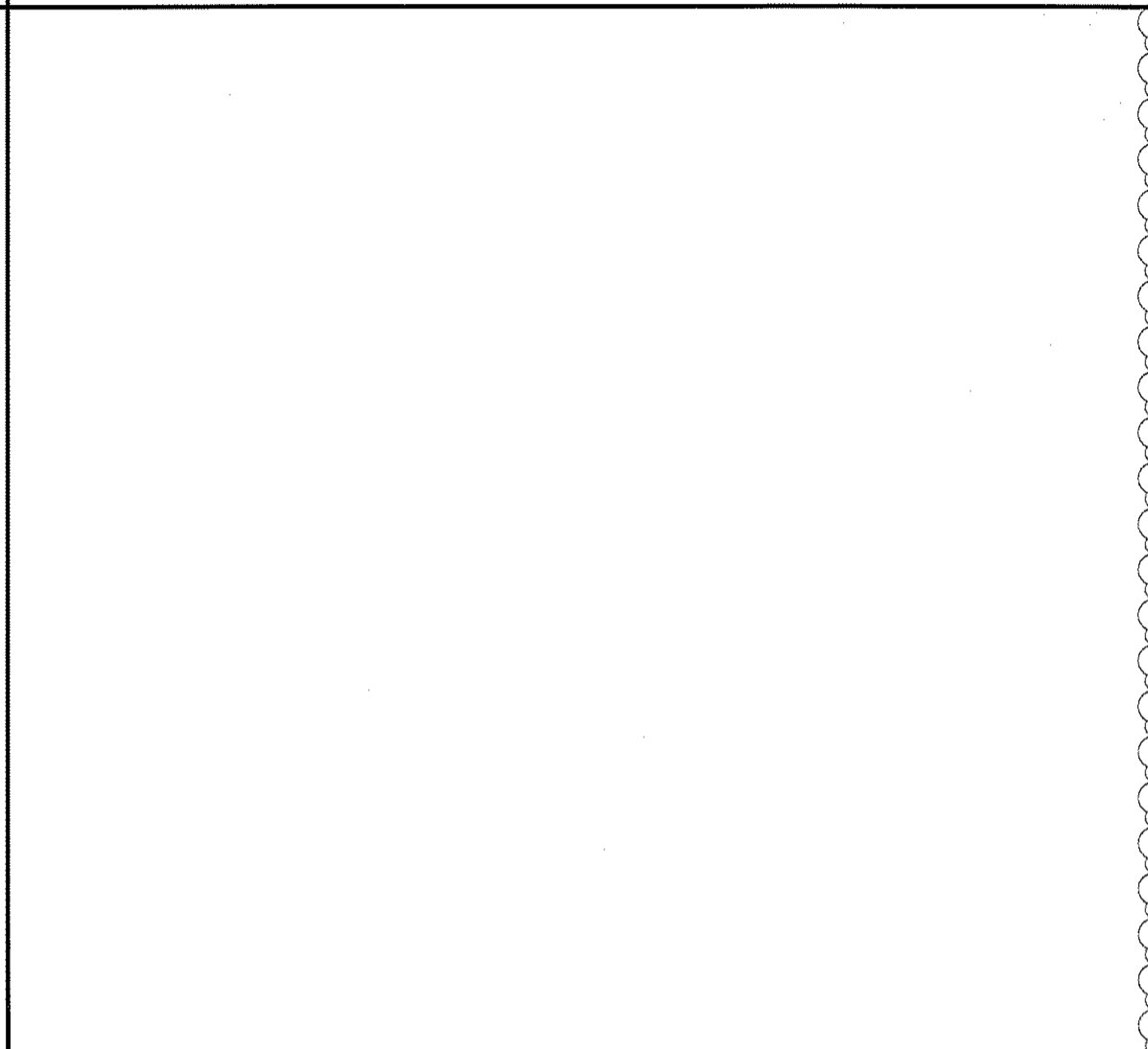
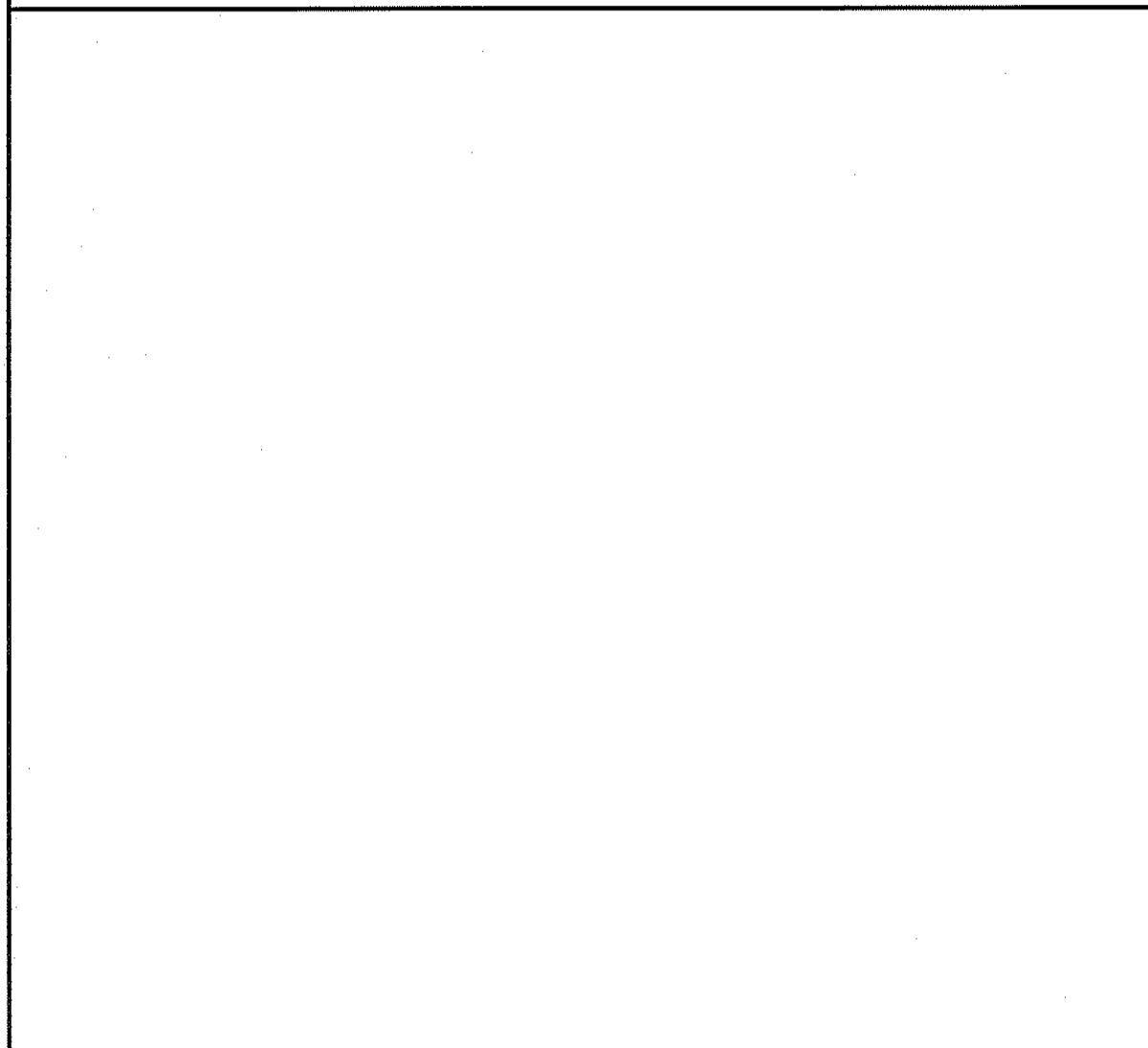
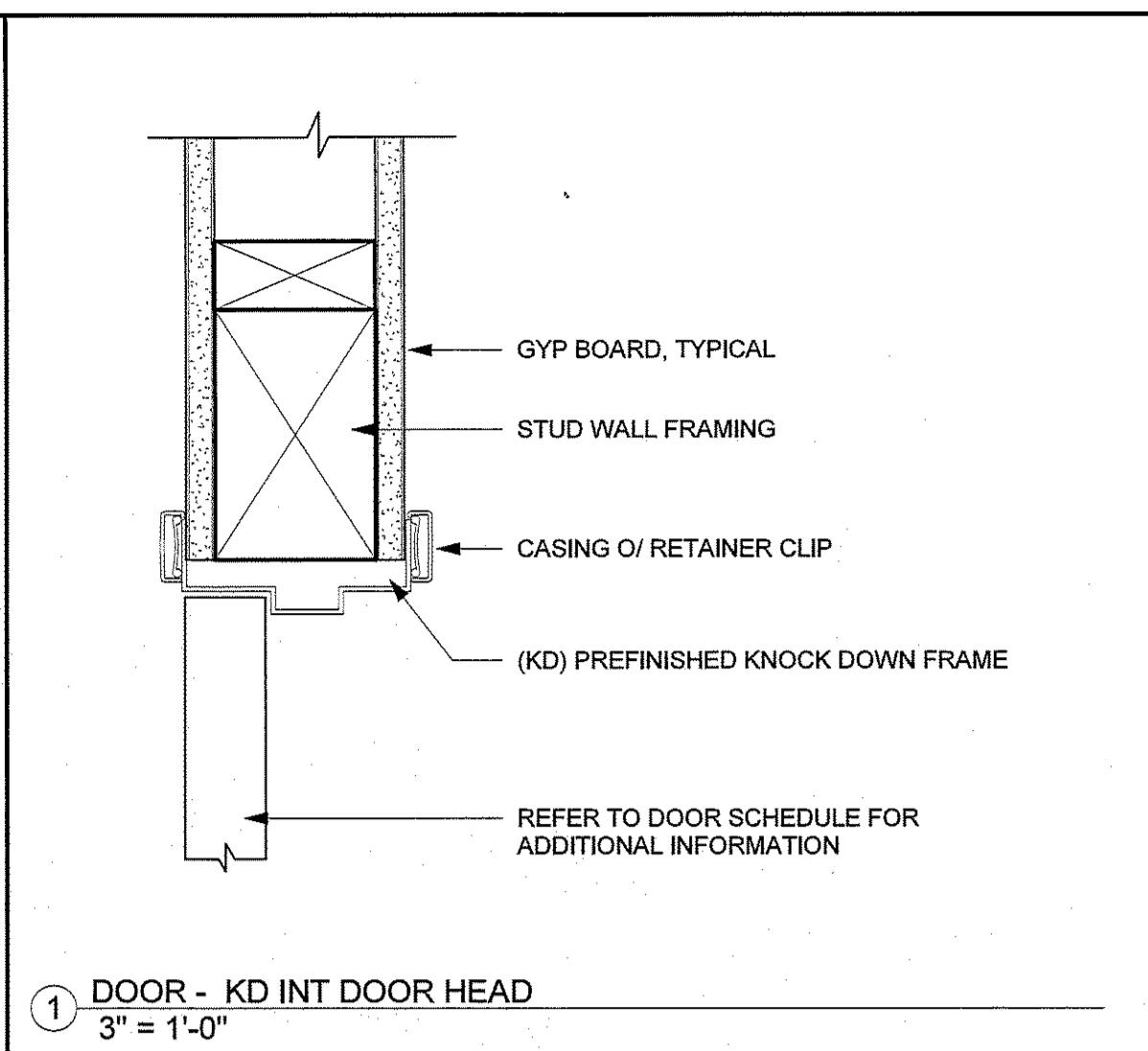
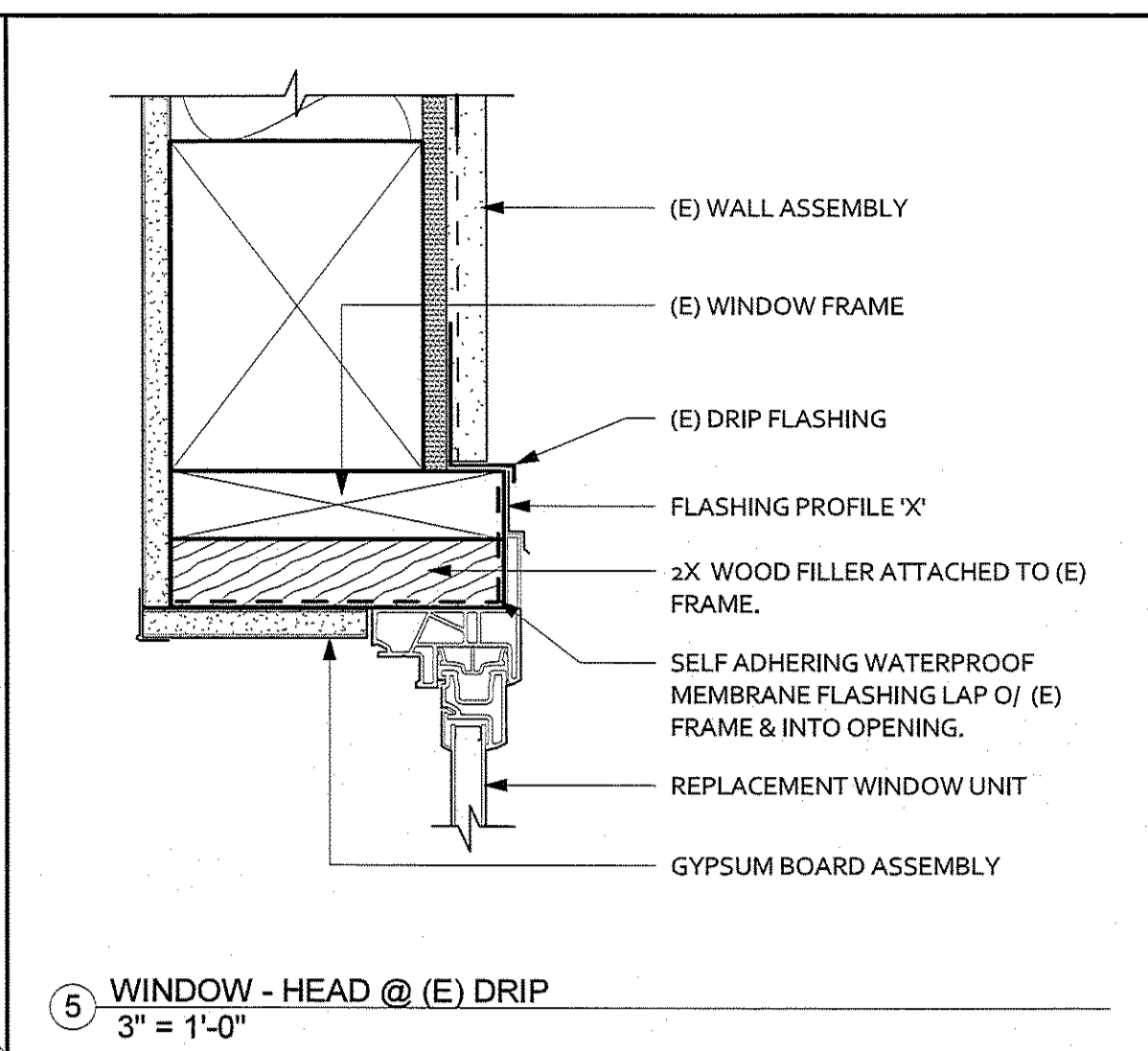
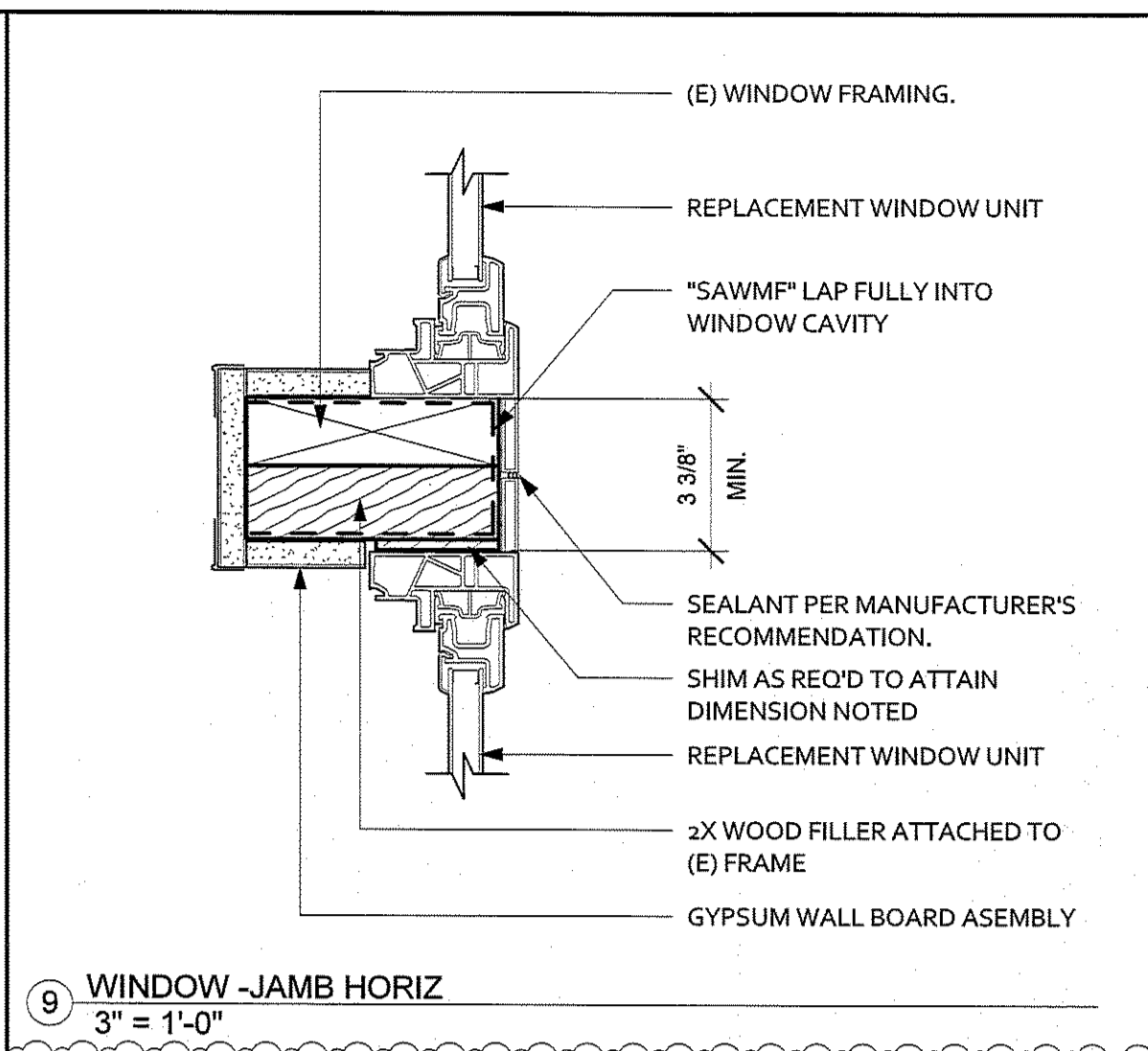
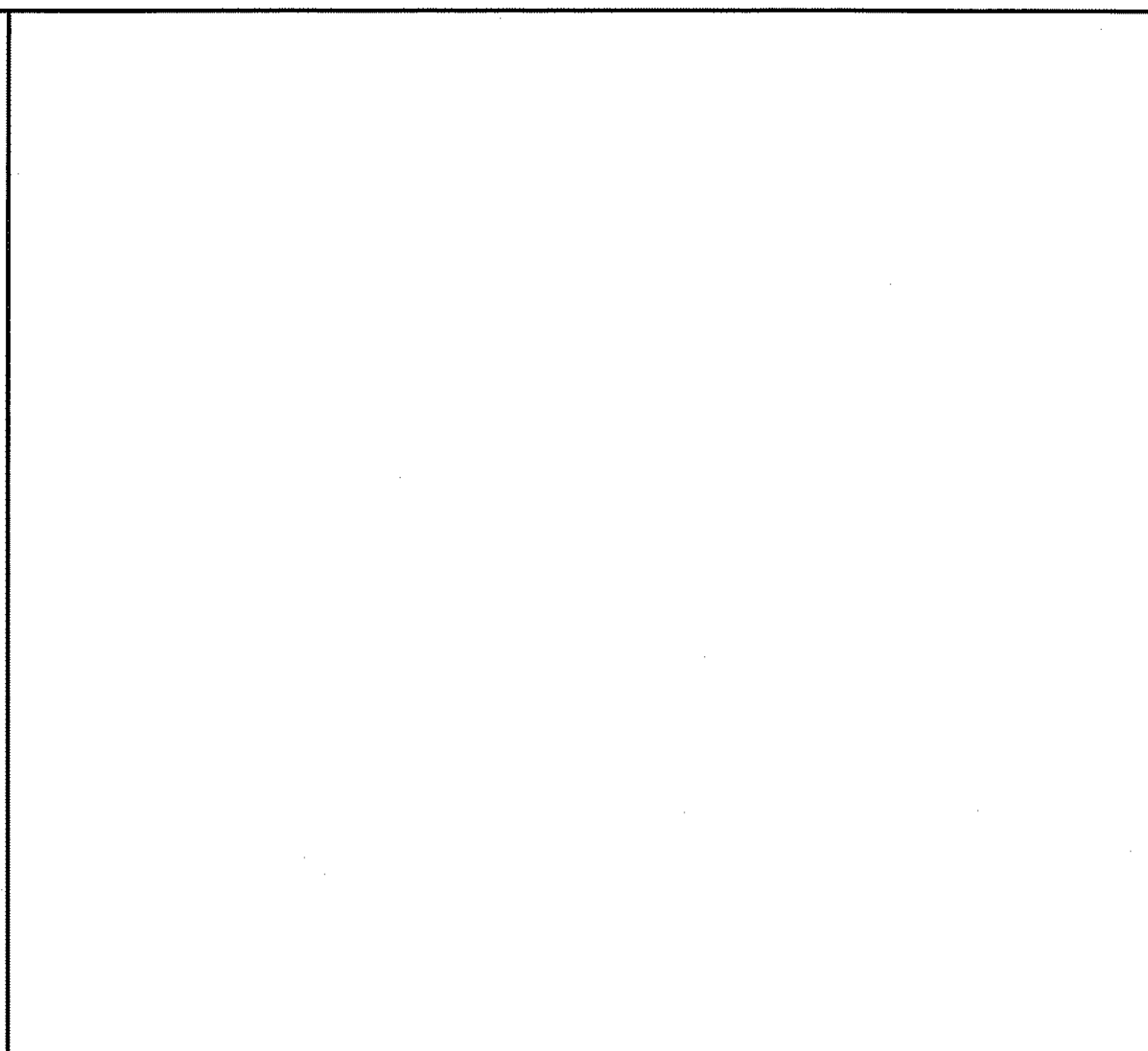
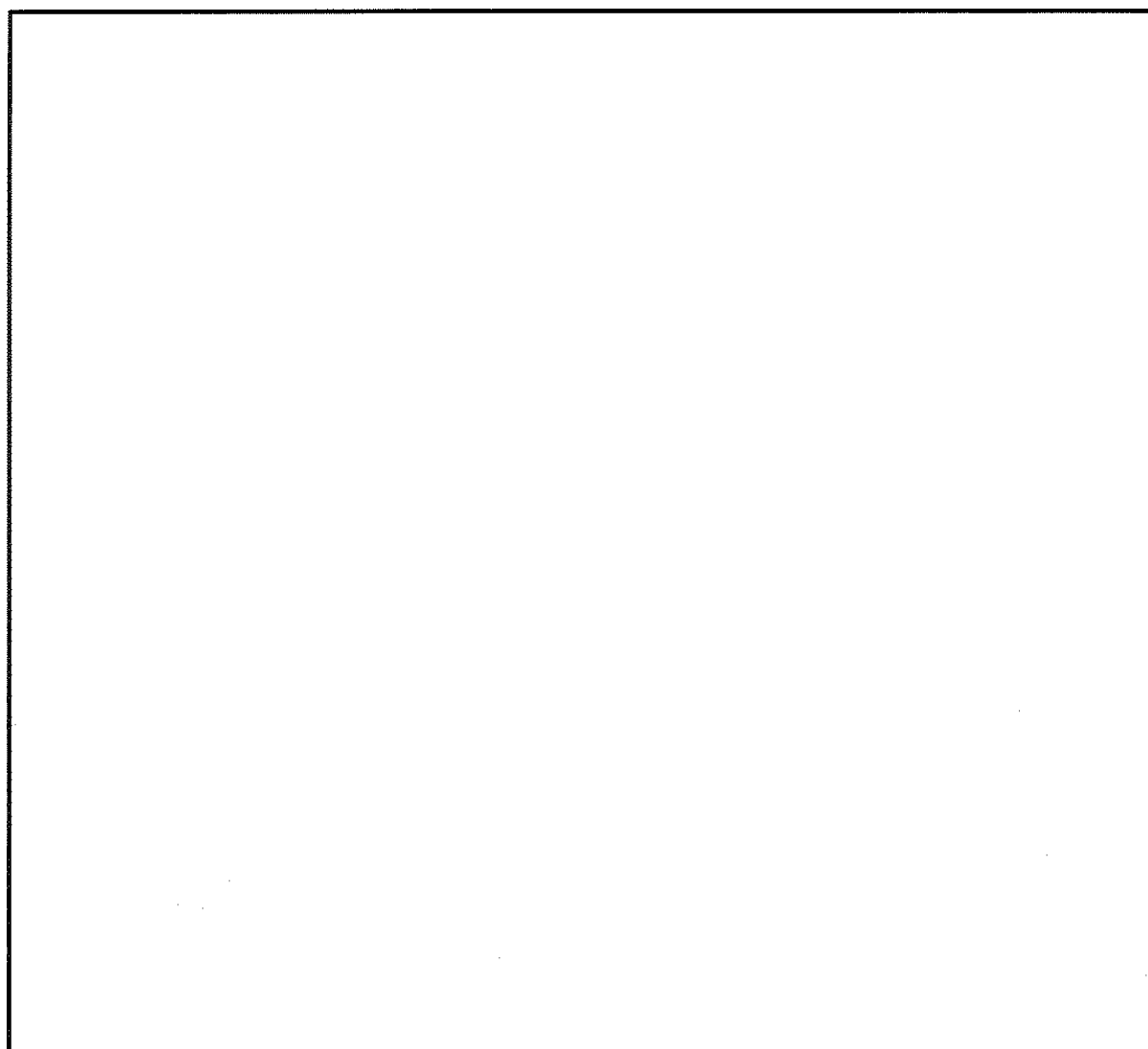
No.	Description	Date
1	Plan review	1/31/2019

Drawing Title:

DETAILS
JOB SET

Drawing Number:

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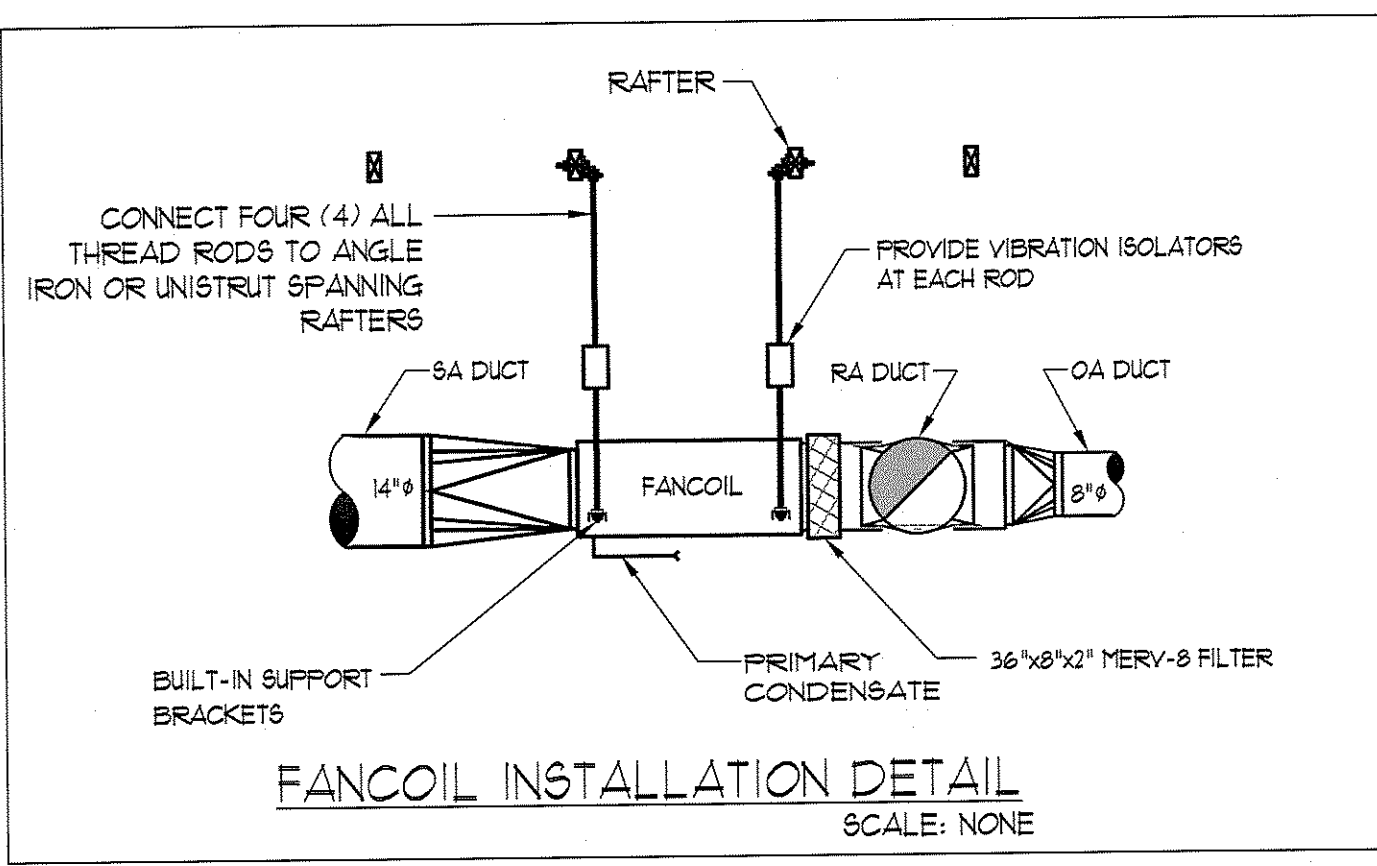
HVAC LEGEND	
	14"x6" SA 40 CFM SUPPLY DIFFUSER SIZE AND FLOW RATE LISTED ARROWS INDICATE THROW PATTERN
	24"x10" RA 40 CFM RETURN GRILLE SIZE AND FLOW RATE LISTED
	4"x10" EA 40 CFM CEILING EXHAUST GRILLE SIZE AND FLOW RATE LISTED
	RECTANGULAR SUPPLY AIR CROSS SECTION
	RECTANGULAR RETURN AIR CROSS SECTION
	THERMOSTAT
	BALANCING DAMPER
	10" RIGID DUCT
	10" FLEXIBLE DUCT
	EQUIPMENT TAG
AC	ABOVE CEILING
CJ	CONDENSING UNIT
FC	FAN COIL UNIT
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
OA	OUTSIDE AIR
RA	RETURN AIR
EA	EXHAUST AIR

HVAC NOTES

- SCOPE OF WORK
 - REMOVE DUCTING WHERE INDICATED TO MAKE SPACE FOR NEW EQUIPMENT AND DUCTING.
 - INSTALL NEW DUCTED MINI-SPLIT AND DUCTING.
- FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF HVAC WORK INDICATED ON THE DRAWINGS. ALSO, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
- IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.
- ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE.
- CONTRACTOR SHALL PARTICIPATE IN BID WALK-THRU AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. BIDS SHALL BE ADJUSTED TO ACCOMMODATE ANY EXISTING CONDITIONS WHICH ARE NOT SHOWN ON PLANS AND ARE VISIBLE DURING WALK-THRU. ANY AND ALL DEVIATIONS FROM PLANS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
- CONTROLS - GENERAL
 - A. THE VENTILATION SYSTEM SHALL BE WIRED TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS. DURING UNOCCUPIED HOURS THE UNIT SHALL CYCLE ON AND OFF WITH A DEMAND FOR HEATING AND COOLING.
 - B. ROOM THERMOSTATS SHALL BE PROGRAMMABLE WITH 5-1-1 DAY C. PROGRAMMING AND 24 HOUR HEATING AND COOLING SETBACK CAPABILITY.
 - D. THERMOSTATS SHALL BE INSTALLED WHERE INDICATED ON PLANS, 48 INCHES ABOVE FINISHED FLOOR LEVEL.
 - E. CONTROL SYSTEM SHALL BE COMPATIBLE WITH NEVADA COUNTY'S DELTA CONTROL SYSTEM.
 - F. INSTALLING SUB-CONTRACTOR SHALL PROVIDE ENGINEER WITH COMPLETE CONTROL SCHEMATIC INCLUDING SUBMITTALS FOR EACH COMPONENT.
- AIR DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE SPECIFIED BY MANUFACTURER OR EQUAL. PROPOSED MODEL NUMBERS FOR DIFFERENT APPLICATIONS ARE AS FOLLOWS:

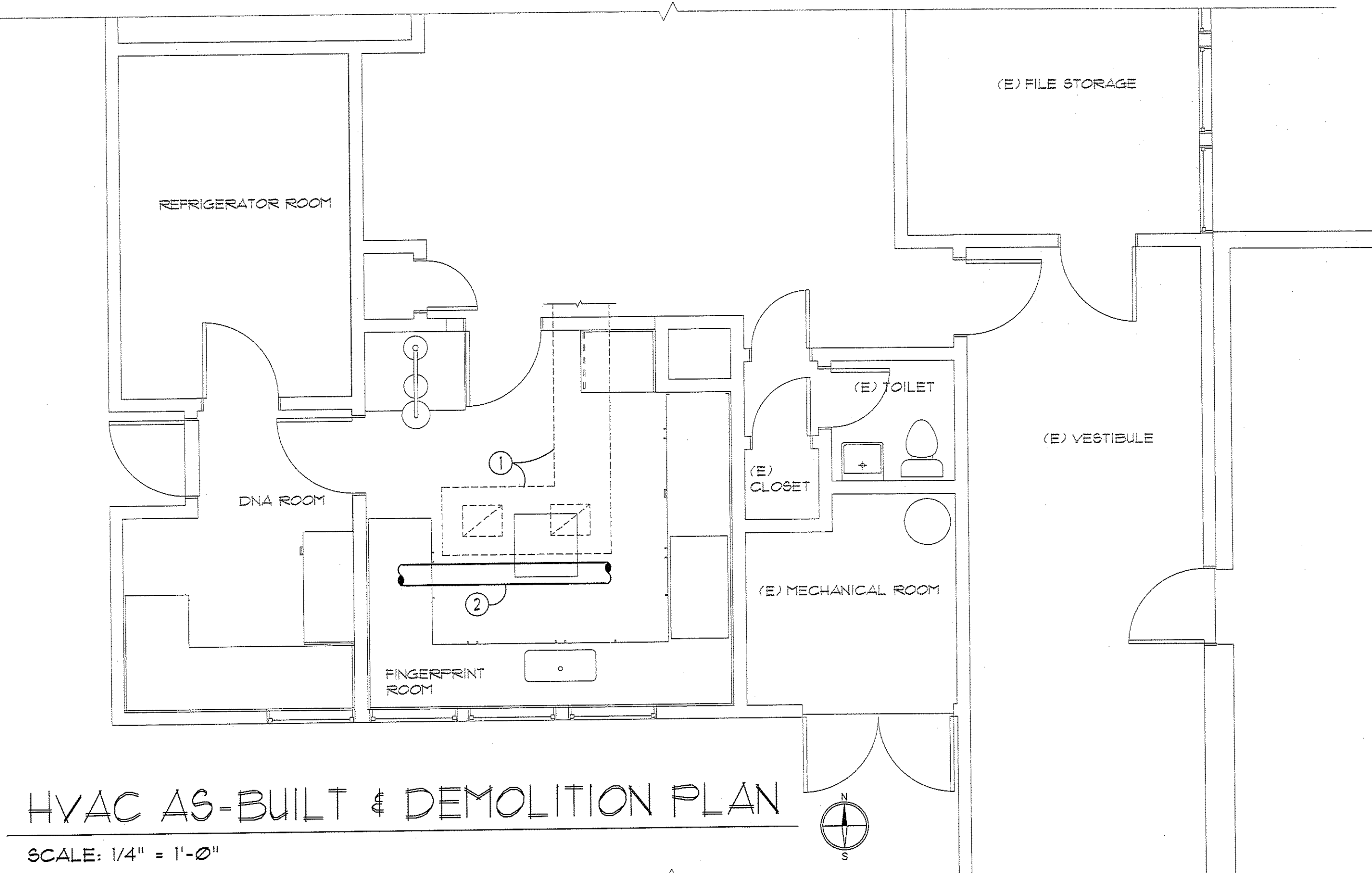
APPLICATION	MODEL #	REMARKS
CLG GYPSUM SUPPLY	MA (W/ OBD)	MODULAR CORE THROUGH PATTERN INDICATED
CLG GYPSUM RETURN	915	HORIZONTAL BAR FIXED BLADE
CLG GYPSUM TRANSFER	600	EGGCRATE GRILLE
- FOR EXACT LOCATION OF DIFFUSERS AND GRILLES REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- PROVIDE CAM-FARR, 2 INCH DEEP, 30% EFFICIENT FILTERS IN RETURN AIR PLENUM OF FANCOIL. INSTALL DOWNSTREAM OF RETURN AIR AND FRESH AIR INTAKE.
- OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10 FEET AWAY FROM OR 3 FEET BELOW EXHAUST AIR DISCHARGE OR PLUMBING VENTS. COVER AIR INTAKE WITH 1" MESH WIRE.
- SLOPE ALL CONDENSATE LINES # 1/4" PER FOOT. CONDENSATE SHALL TERMINATE OUTSIDE A MINIMUM OF 2 FEET ABOVE GRADE WITH A DOWNWARD ELBOW. CONDENSATE LINES SHALL BE 3/4" HARD-DRAIN COPPER, UNLESS OTHERWISE NOTED.
- DUCT MATERIAL AND SEALING
 - A. DUCTING IN CONCEALED LOCATION SHALL BE GALVANIZED SHEET METAL. PRE-INSULATED FLEX DUCT MAY BE USED AS LEADERS (5' MAX.) TO AND FROM AIR TERMINALS. PER CMC 603.4.1. DUCT SHALL BE MANUFACTURED IN ACCORDANCE WITH CHAPT. 6 OF THE 2016 CMC AND SMACNA GUIDELINES.
 - B. PRE-INSULATED FLEX DUCT SHALL HAVE AN R-VALUE = 8.0.
 - C. FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL181.
 - D. METAL TO METAL JOINTS SHALL BE SEALED WITH MASTIC SEALANT TO PROVIDE AIRTIGHT PROTECTION PRIOR TO INSULATION. APPLY SEALANT ACCORDING TO MANUFACTURER'S RECOMMENDATION.
 - E. INNER LINING OF FLEX DUCTING SHALL BE SECURELY FASTENED WITH A PANDUIT STRAP. THE EXTERIOR LINING (INSULATION) SHALL BE SECURELY TAPED TO THE SHEET METAL FITTING.
 - F. WHERE TURNS AND/OR TRANSITIONS EXCEED 45 DEGREES USE SHEET METAL FITTINGS AND ELBOWS. PROVIDE SHEET METAL SLEEVES FOR ALL SPLICES.
 - G. CORRUGATED ALUMINUM FLEX DUCT SHALL NOT BE ALLOWED.
 - H. ALL TAPES AND MASTIC SEALANTS SHALL COMPLY WITH UL181, UL 181A, OR UL181B.
- INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 20 DEGREES; CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 30 DEGREES.
- SUPPORTS AND HANGERS FOR DUCTING SHALL BE IN ACCORDANCE WITH THE 2016 UNIFORM MECHANICAL CODE AND IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE AND DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION, SUPPORTS AND 8' INTERVALS (MIN).
- WRAP ALL UNLINED CONCEALED SUPPLY AND RETURN DUCTS WITH O.C. FIBERGLASS DUCT WRAP OR JM MICROLITE, 2" THICK AND 1" PER CUBIC FOOT DENSITY. WRAP INSULATION ENTIRELY AROUND DUCT AND WIRE SECURELY IN PLACE WITH #6 WIRE 12" O.C. ON EACH SIDE OF STANDING SEAM AND OVER INSULATION JOINT. LAP ALL INSULATION JOINTS 3" MIN. INSULATE DUCTS TIGHT AGAINST OTHER WORK BEFORE HANGING IN PLACE.
- SUPPLY AND RETURN DUCT PLENUMS FROM FANCOIL SHALL BE LINED ON THE INTERIOR WITH 1" OUNES CORNING TYPE 150 AEROFLEX, OR EQUAL. MATERIAL HAS A K' OF 0.28 (BTU/HR-FT.-F).
- AT TIME OF ROUGH INSTALLATION OR DURING STORAGE OF THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HVAC SYSTEM, ALL DUCTING AND RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
- AIR DISTRIBUTION SYSTEM SHALL BE BALANCED WITH AN APPROVED AND CALIBRATED AIR FLOW MEASURING DEVICE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PROVIDE INDICATED AIR FLOW RATES (WITHIN ±5%). PROVIDE OWNER WITH COMPLETE AIR BALANCE REPORT.
- DUCT SYSTEM LEAKAGE TEST
 - A. PROVIDE DUCT TESTS FOR ALL SYSTEMS THAT HAVE ANY PORTION OF THE AIR DISTRIBUTION SYSTEM IN UNCONDITIONED SPACE (E.G. ATTICS & CRAWLSPACES).
 - B. PERFORM FINAL DUCT PRESSURE TEST AFTER THE DRY WALL HAS BEEN FINISHED AND T-BAR CEILING HAS BEEN COMPLETED. DUCTS SHALL BE PRESSURIZED TO 25 PASCAL AND THE AIR LEAKAGE SHALL NOT EXCEED 6% OF FAN FLOW. FINAL TEST SHALL BE PERFORMED BY INDEPENDENT CERTIFIED HERO RATER.
 - C. INSULATE CONDENSATE LINE WITH ARMSTRONG® 1/2" WALL THICKNESS "DG TUBO-SLIT". COND = 0.28 (BTU-IN/HR.-F) # 15/16" IN ACCORDANCE WITH ASTM C 111 OR C 518 WITH THIRD PARTY TESTING SUPERVISION. WHERE PIPING IS EXPOSED TO WEATHER PROVIDE PVC JACKETING AROUND INSULATION.

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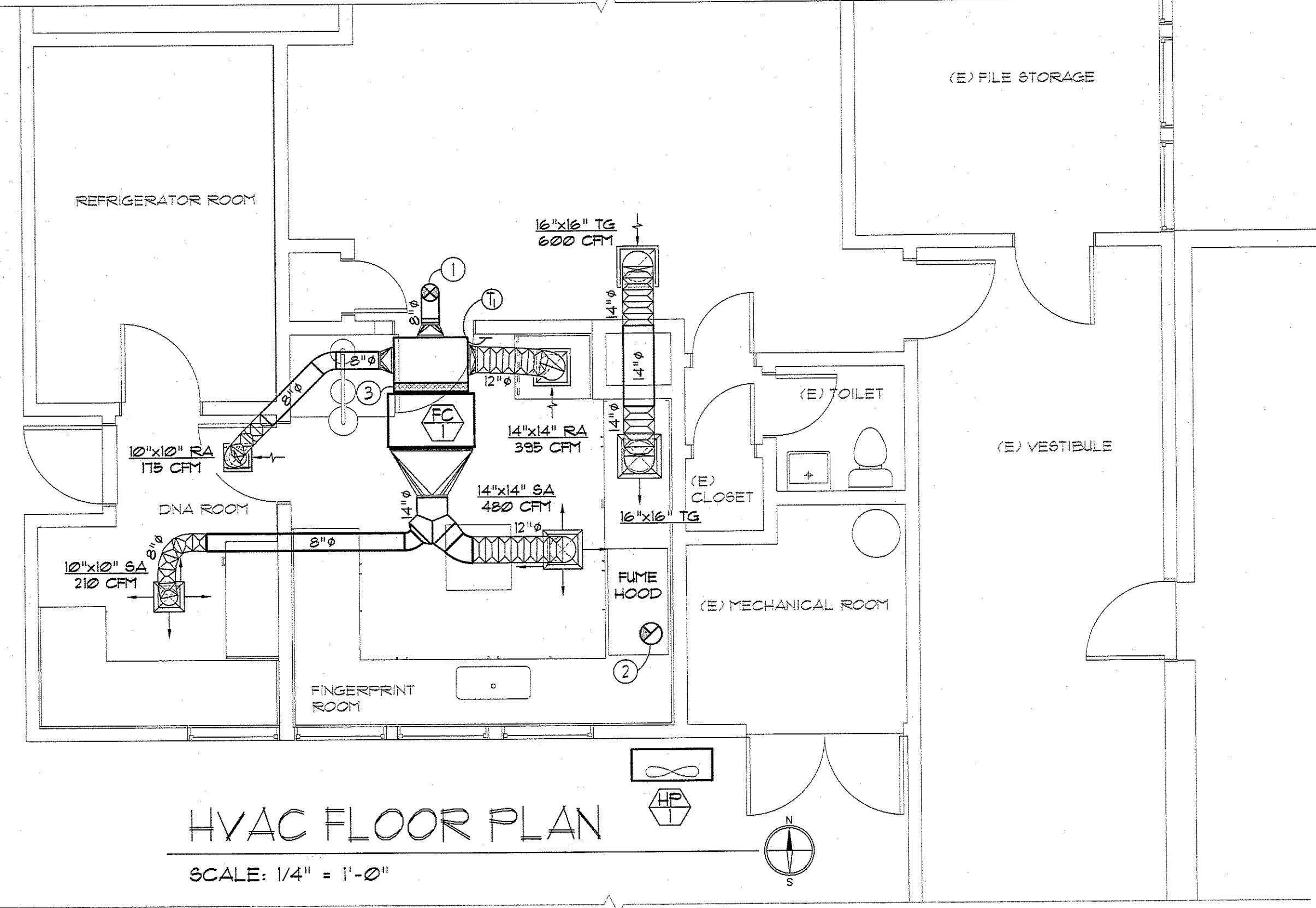


HVAC EQUIPMENT SCHEDULE																
SYMBOL	AREA SERVED	COOLING			HEATING		FAN			ELECT.			MFGR & MODEL NO.	WEIGHT (LBS)	EFFICIENCY	REMARKS
		TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	COIL EDB/EWB (°F)	HIGH INPUT/OUTPUT (BTU/HR)	DB (°F)	CFM	S.P. (WC)	O.A. (CFM) (MIN)	VOLTAGE	MCA	COMP. LRA				
	FINGERPRINT ROOM DNA ROOM	---	---	---	---	---	688	0.8	100	208/230 V. 1 PHASE	0.3	---	15	80	---	DUCTED FANCOIL DIMENSIONS: H=11-3/16", W=39-3/8", D=27-9/16" BUILT-IN FLOAT SWITCH FOR CONDENSATE SOUND - 49 DBA
	FINGERPRINT ROOM DNA ROOM	24,000	21,500	80/67	27600	47	---	---	---	208/230 V. 1 PHASE	16.5	---	20	150	HSPF = 10.5 SEER = 16.5 EER = 12.0	GROUND MOUNTED OUTDOOR HEAT PUMP SOUND - 49 db DIMENSIONS: H=30-5/16", W=35-7/16", D=12-5/8"

NOTES:
 1. FLOAT SWITCH FOR AIR HANDLER WILL INTERRUPT POWER TO THE FANCOIL UNIT WHEN MOISTURE IS DETECTED IN THE DRAIN PAN. THIS SATISFIES THE REQUIREMENT FOR SECONDARY CONDENSATE.



AS-BUILT KEYED NOTES	
1.	(E) DUCTING TO BE REMOVED
2.	(E) SUPPLY DUCT TO REMAIN



HVAC FLOOR PLAN KEYED NOTES	
1.	8" OA DUCT (120 CFM) THROUGH ROOF TO ROOF CAP
2.	10" EA DUCT (120 CFM) THROUGH ROOF TO ROOF CAP
3.	INSTALL 36"x8"x2" MERV-8 PLEATED FILTER

SHERIFF PROPERTY UNIT
 15076 STATE HIGHWAY 49
 NEVADA CITY, CA 95959

Project Title: SHERIFF PROPERTY UNIT
 Project Location: 15076 STATE HIGHWAY 49 NEVADA CITY, CA 95959
 Sheet Title: HVAC FLOOR PLAN

Revisions:			
No.	Date:	By:	Description:
1	2-6-2019	DD	PLAN CHECK

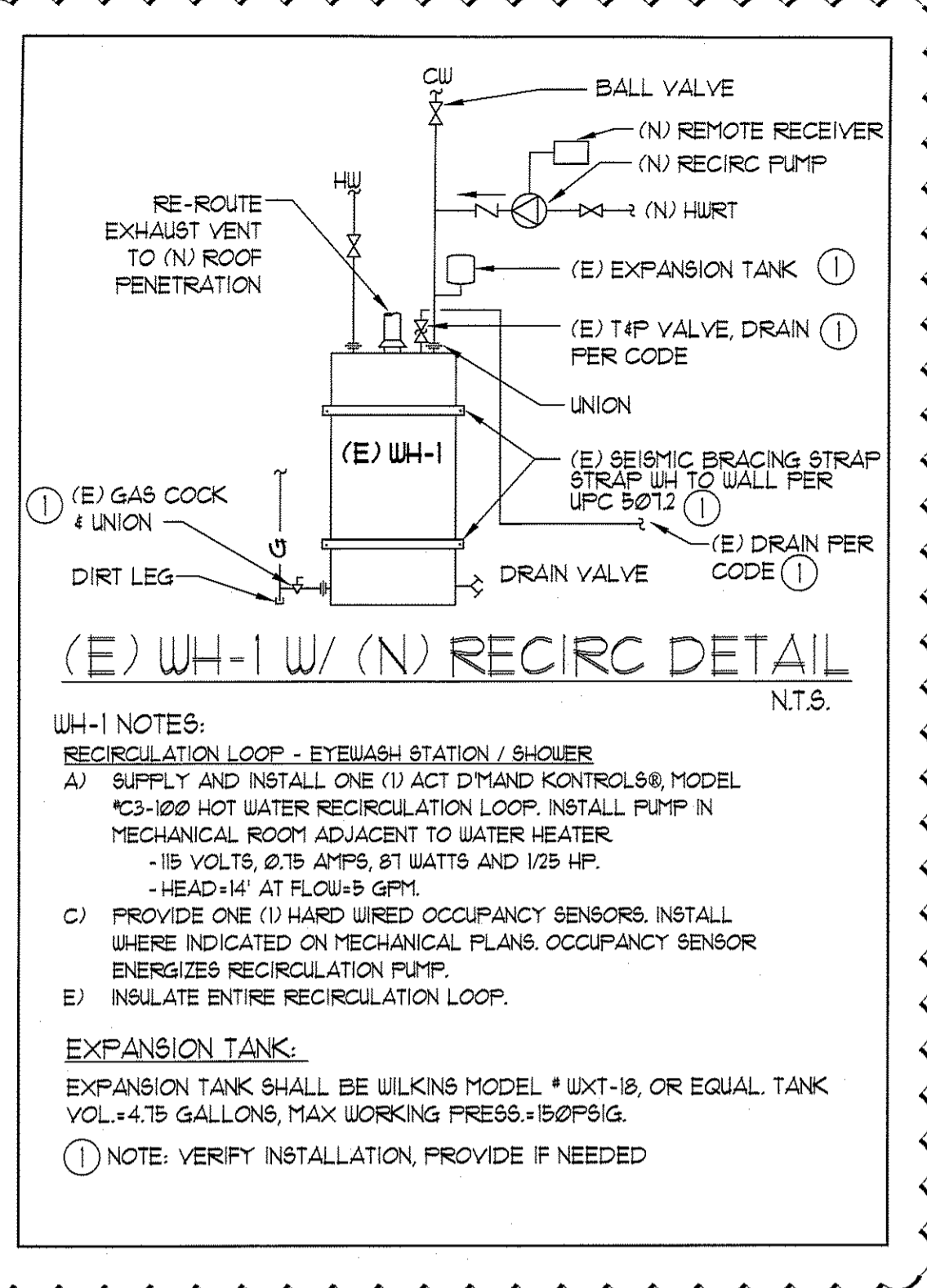
Plot Date: 2/8/2019

Job # **18-296**
JOB SET

Scale: **as noted**

Date 1st Issued: **12-10-2018**

Sheet Number: **M1.1**

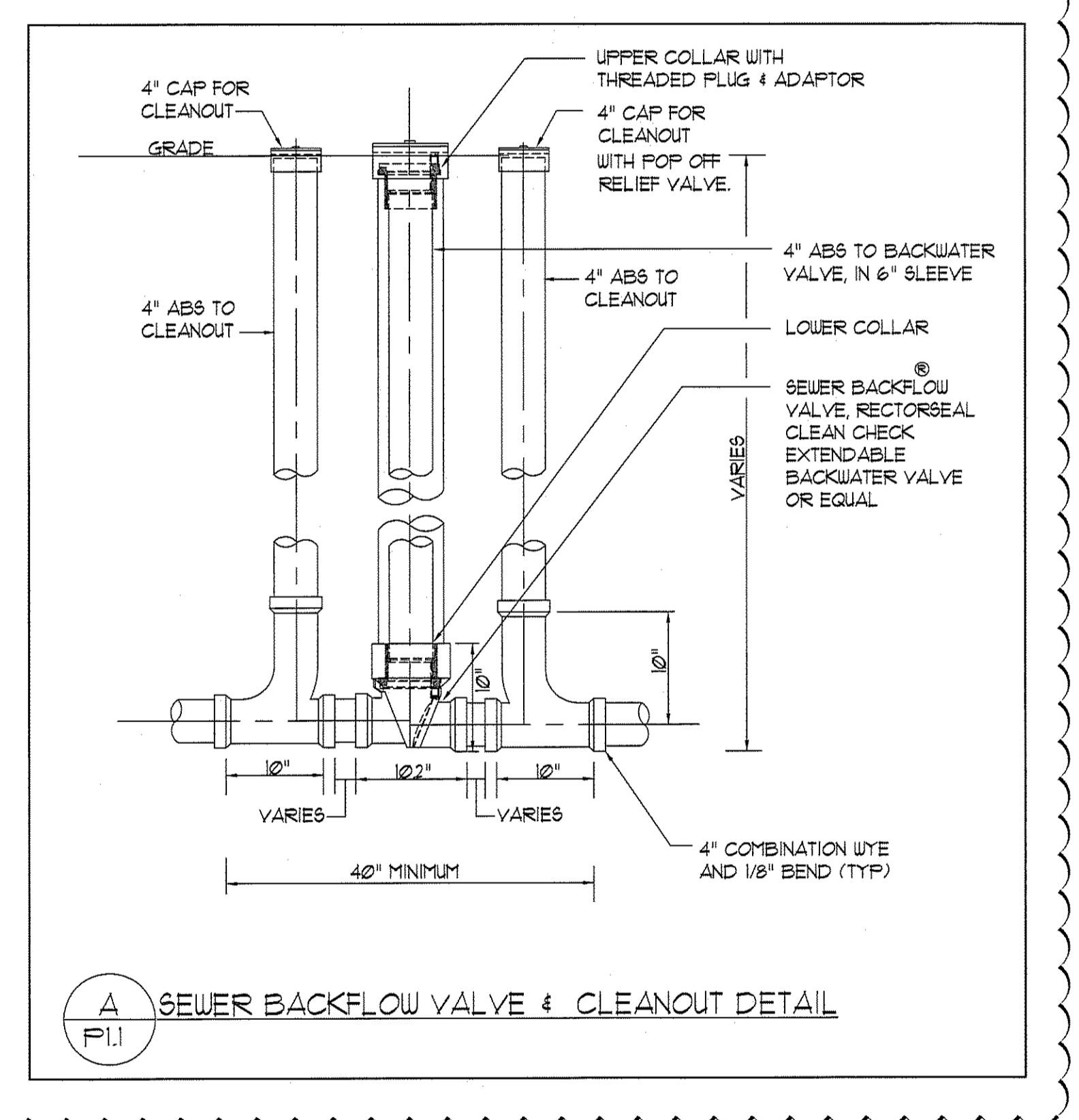


PLUMBING SYMBOLS AND LEGEND

AC	ABOVE CEILING
UC	UNDER COUNTER
BF	BELOW FLOOR
BS	BELOW SLAB
BG	BELOW GROUND
W	IN WALL
SM	SURFACE MOUNT
VR	VENT RISER
VTR	VENT THRU ROOF
WDR	WASTE DROP, RISER
GW	GREASE WASTE
WH	WATER HEATER (SEE SCHEDULE)
CURD	COLD WATER RISER DROP
HURD	HOT WATER RISER, DROP
HURT	HOT WATER RETURN
WCO, GCO	WALL CLEANOUT, GRADE CLEANOUT
P.O.C.	POINT OF CONNECTION
THW	TEMPERED HOT WATER

	C.O.	CLEANOUT
	CW	COLD WATER PIPING
	HU	HOT WATER PIPING
	HURT	HOT WATER RETURN PIPING
	W	SANITARY WASTE PIPING
	V	VENT PIPING
	IND	INDIRECT WASTE LINE
	S.O.V.	SHUT OFF VALVE (S.O.V.) (LINE SIZED)
	G	GAS PIPING, SIZE INDICATED
	G (378)	GAS FLOW IN KBTU/Hr INDICATED IN PARENTHESIS

WH-1 NOTES:
RECIRCULATION LOOP - EYEWASH STATION / SHOWER
 A) SUPPLY AND INSTALL ONE (1) ACT D/MAND CONTROL® MODEL 103-100 HOT WATER RECIRCULATION LOOP. INSTALL PUMP IN MECHANICAL ROOM ADJACENT TO WATER HEATER. -15 VOLTS, 2.75 AMPS, 37 WATTS AND 1/25 HP. -HEAD 1/4" AT FLOW 5 GPM.
 C) PROVIDE ONE (1) HARD WIRED OCCUPANCY SENSORS, INSTALL WHERE INDICATED ON MECHANICAL PLANS. OCCUPANCY SENSOR ENERGIZES RECIRCULATION PUMP.
 E) INSULATE ENTIRE RECIRCULATION LOOP.
EXPANSION TANK:
 EXPANSION TANK SHALL BE WILKINS MODEL # WXT-10, OR EQUAL. TANK VOL.=4.75 GALLONS, MAX WORKING PRESS.=150PSIG.
 (1) NOTE: VERIFY INSTALLATION, PROVIDE IF NEEDED



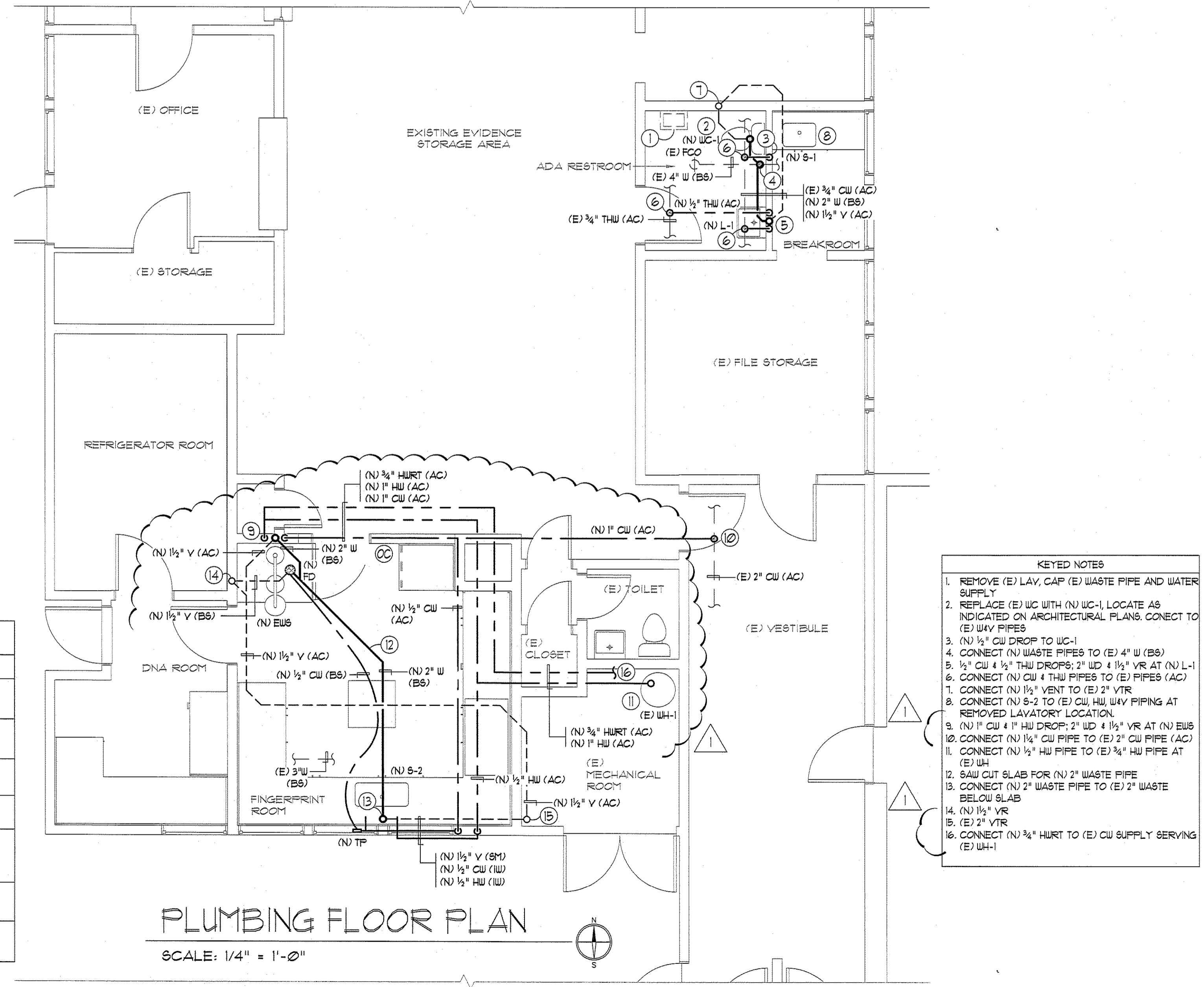
PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MFGR & MODEL *	ACCESSORIES
WC-1	VITREOUS CHINA FLOOR MOUNT, ELONGATED BOWL, FLUSH VALVE	PROFLO FF4231UH - W/ RH LEVER TANK	WHITE, FLOOR MTD, 1" HIGH 129 GAL FLUSH VALVE, ADA COMPLIANT RIGHT HAND LEVER TANK, CLOSED FRONT SEAT WITH COVER
L-1	VITREOUS CHINA WALL MOUNT LAV	AMER STD. LUCERNE 0356.421 AMER STD. SEVA #480.150	WHITE VITREOUS CHINA LAVATORY, ADA COMPLIANT, FRONT OVERFLOW, SINGLE HOLE CONFIGURATION, 1/4" P-TRAP, SINGLE HOLE 0.5 GPM, LEVER FAUCET ADA COMPLIANT
S-1	STAINLESS STEEL SINGLE SINK	ELKAY LRAD221855L ELKAY LKGT1041	22" x 19 1/2" STAINLESS STEEL, SINGLE BOWL SINK, ADA COMPLIANT, 1.75 GPM SINGLE LEVER FAUCET WITH PULL OUT SPRAY, ADA COMPLIANT
S-2	EPOXY LAB SINK	DURCON 166 ELKAY LKGT1041	31" x 21" EPOXY SINGLE BASIN LAB SINK, 1.75 GPM SINGLE LEVER FAUCET WITH PULL OUT SPRAY, ADA COMPLIANT
EWS	EYE / FACE WASH STATION	GUARDIAN GBF1809 GUARDIAN G3802LF	BARRIER FREE SAFETY STATION WITH WIDE AREA EYE / FACE WASH, PLASTIC SHOWER HEAD, ADA COMPLIANT THERMOSTATIC MIXING VALVE FOR EYEWASH / SHOWER STATIONS (ANSI Z358.1-2014)
FD	FLOOR DRAIN	ZURN Z-415	DURA-COATED CAST IRON BODY FLOOR DRAIN WITH BOTTOM OUTLET AND POLISHED NICKEL BRONZE TOP, 2" PIPE
TP	TRAP PRIMER	PRECISION PLUMBING PRODUCTS PRIME-PRO FR201-5000	FLOW ACTIVATED CORROSION RESISTANT LEAD FREE BRASS TRAP PRIMER, 1/2" INLET & OUTLET

PLUMBING NOTES

- SCOPE OF WORK**
 - RECONFIGURE ADA RESTROOM AS INDICATED AND INSTALL NEW FIXTURES.
 - INSTALL NEW EMERGENCY SHOWER AND SINK IN FINGERPRINT ROOM.
 - REMOVE EXISTING PIPING NOT SHOWN TO BE REUSED ON PLANS.
 - SAW CUT EXISTING SLAB FOR NEW WASTE PIPING AS INDICATED ON PLANS. PATCH TO MATCH EXISTING.
- ALL WATER AND WASTE PLUMBING INSTALLATION WORK AND ALL PLUMBING MATERIALS SHALL BE IN ACCORDANCE WITH THE 2016 CALIFORNIA PLUMBING CODE.
- IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.
- ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE SEEN TO BE NECESSARY.
- HOT AND COLD WATER PIPE SIZING IS BASED ON TABLE 610.4 OF THE 2016 CPC FOR A SUPPLY PRESSURE RANGE OF 46-60 PSI.
- CONTRACTOR SHALL PARTICIPATE IN BID WALK-THRU AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. BIDS SHALL BE ADJUSTED TO ACCOMMODATE ANY EXISTING CONDITIONS WHICH ARE NOT SHOWN ON PLANS AND ARE VISIBLE DURING WALK-THRU. ANY AND ALL DEVIATIONS FROM PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- CONTRACTOR SHALL VERIFY SITE DIMENSIONS. NO CHANGE ORDERS WILL BE ALLOWED FOR CONDITIONS WHICH COULD BE VERIFIED BEFORE CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. NO CHANGE ORDERS WILL BE ALLOWED FOR ITEMS THAT COULD HAVE BEEN COORDINATED IN THE FIELD.
- PLUMBING FIXTURES NOT SPECIFIED ON PLANS SHALL BE SELECTED BY INSTALLING SUBCONTRACTOR AND SUBMITTED TO OWNER'S REPRESENTATIVE FOR APPROVAL. FIXTURES SHALL MEET CURRENT CPC AND CAL-GREEN CODES. MAXIMUM FLOW RATES SHALL BE AS FOLLOWS:
 - SINKS 1.8 GPM
 - LAVATORIES 0.5 GPM
 - SHOWERS 2.0 GPM
 - WATER CLOSETS 1.28 GPF
- FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING WORK INDICATED ON THE DRAWINGS. PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
- PROVIDE ALL NECESSARY PLUMBING CONNECTIONS TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OR SECTION OR BY OWNERS. PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION.
- PIPING IS TO BE FIELD LOCATED IN SUCH A WAY AS TO AVOID OBSTACLES. MEET CALIFORNIA PLUMBING CODE (CPC) REQUIREMENTS AND ALLOW SERVICE CLEARANCE TO AREAS AND EQUIPMENT THAT MAY REQUIRE SERVICING.
- ALL HORIZONTAL WASTE / VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. IF EXISTING INVERT ELEVATION DOES NOT FOR 1/4" PER FOOT, 1/8" PER FOOT WILL BE ALLOWED WITH THE WASTE PIPING UPSIZED.
- HORIZONTAL VENT PIPE SHALL BE SO GRADED AND CONNECTED AS TO DRIP BACK BY GRAVITY TO THE DRAIN PIPE IT SERVES PER 2013 CPC 909.2. VENT PIPE SHALL TERMINATE A MINIMUM OF 10 FEET FROM FRESH AIR INTAKE.
- INSULATE ALL POTABLE HOT WATER SUPPLY & RETURN PIPING WITH K-FLEX 3/4" WALL THICKNESS INSUL-TUBE® OR EQUAL. CONDUCTIVITY=0.23 (BTU-IN/HR-F) AT 75°F IN NON CONDITIONED SPACE, IN ACCORDANCE WITH ASTM C111 OR C818.
- FOR EXACT LOCATION OF PLUMBING FIXTURES AND MOUNTING HEIGHTS, SEE ARCHITECTURAL ELEVATIONS.
- PIPING SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH CHAPTER 3 OF THE 2013 CPC WITH SUPERSTRUT HANGERS, OR EQUAL. PROVIDE ISOLATORS AT ALL HANGERS WHERE PIPING IS NOT INSULATED.
- TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS.
- CLEANOUTS IN FIRE RATED WALLS SHALL HAVE BOTH METAL BODY AND COVER CONSISTENT WITH PIPE MATERIAL SCHEDULE.
- PLUMBING VENTS SHALL BE AT LEAST 10' FROM OR 3' ABOVE ANY DOOR, OPENABLE WINDOW MECHANICAL AIR INTAKE, OR OTHER INLETS INTO THE BUILDING PER CPC 906.2.
- DISINFECTION OF WATER SYSTEM**
 - PRIOR TO FINAL INSPECTION, CLEAN AND DISINFECT DOMESTIC HOT AND COLD WATER SYSTEMS, SPACE HEATING SYSTEMS AND FIRE PROTECTION SYSTEMS CONNECTED TO DOMESTIC WATER MAINS. PERFORM ALL WORK PER AWWA STANDARD PROCEDURES FOR DISINFECTING WATER MAINS AND AS REQUIRED BY LOCAL BUILDING AND HEALTH DEPARTMENT CODES.
 - WITH ALL FIXTURES CONNECTED AND OPERABLE AND READY FOR USE AND WHEN BY TEST SYSTEM IS PROVED TO BE FREE FROM LEAKS, THOROUGHLY FLUSH BY FULLY OPENING EVERY OUTLET AND OPERATING EVERY FIXTURE UNTIL CLEAR WATER FLOWS FROM ALL OUTLETS AND FIXTURES.
 - FILL SYSTEM COMPLETELY FULL OF WATER AND INJECT DISINFECTANT SLOWLY AND CONTINUOUSLY AT AN EVEN RATE (NOT IN SLUGS) UNTIL AN ORTHOTOLIDIN TEST AT EACH OUTLET SHOWS A CHLORINE RESIDUAL CONCENTRATION OF AT LEAST 50 PARTS PER MILLION (PPM).
 - MAINTAIN CONDITION FOR 24 HOURS WITH CHLORINE RESIDUAL OF 50 PPM RETAINED IN SYSTEM FOR THIS 24 HOUR PERIOD. IF, AFTER 24 HOURS, ORTHOTOLIDIN TESTS INDICATE THAT CHLORINE RESIDUAL CONCENTRATION HAS DECREASED BELOW 50 PPM, THEN DISINFECTION PROCEDURE MUST BE REPEATED UNTIL AN APPROVED RESULT IS OBTAINED.
 - WHEN THE ABOVE PROCEDURE HAS BEEN COMPLETED, FLUSH OUT ENTIRE SYSTEM WITH FRESH WATER UNTIL AN ORTHOTOLIDIN TEST AT ANY OUTLET SHOWS A RESIDUAL OF NOT MORE THAN 0.20 PPM.
 - POST WARNING SIGNS AT ALL OUTLETS AND IN CONSPICUOUS AREAS WHILE DISINFECTING THE SYSTEM.
- TESTING OF PIPING**
 - ALL PIPING SHALL TESTED AT COMPLETION OF ROUGH-IN. TEST IN ACCORDANCE WITH THE FOLLOWING SCHEDULE TO SHOW NO LOSS IN PRESSURE OR VISIBLE LEAKS AFTER A MINIMUM DURATION OF FOUR (4) HOURS AT THE TEST PRESSURE INDICATED.
 - ISOLATE FROM THE SYSTEM ALL EQUIPMENT WHICH MAY BE DAMAGED BY TEST PRESSURE. TEST SCHEDULE AS FOLLOWS:

SYSTEM TESTED	TEST PRESSURE PSIG	TEST WITH
ALL SOIL, WASTE, DRAIN AND VENT PIPING WITHIN BUILDINGS.	150 PSIG	FILL WITH WATER TO TOP OF WATER AND VENT PIPING WITHIN BUILDINGS. ALLOW TO STAND 2 HOURS OR LONGER AS DIRECTED BY INSPECTOR.
ALL HOT TEMPERED AND COLD PIPING.	150 PSIG	WATER



PLUMBING FLOOR PLAN

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

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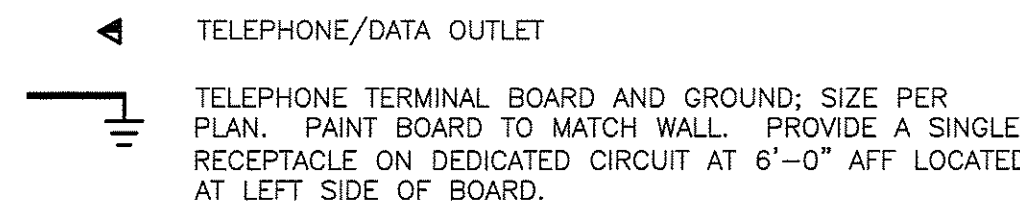


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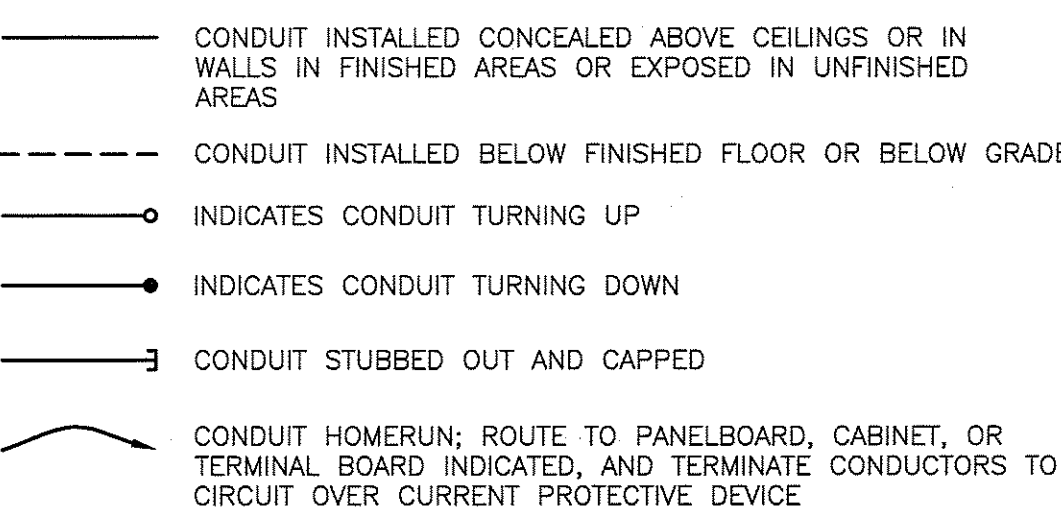
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Project Location:	15076 STATE HIGHWAY 49 NEVADA CITY, CA 95959			
Sheet Title:	PLUMBING PLAN			
Revisions:	No.	Date:	By:	Description:
	1	2-6-2019	DD	PLAN CHECK
Plot Date:	2/11/2019			
Job #	18-296			
Scale	as noted			
Date 1st Issued	12-10-2018			
Sheet Number	P1.1			

TELECOMMUNICATIONS SYMBOLS

NOTE: RACEWAY ONLY OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" CONDUIT AND PULLSTRING TO ACCESSIBLE CEILING SPACE.



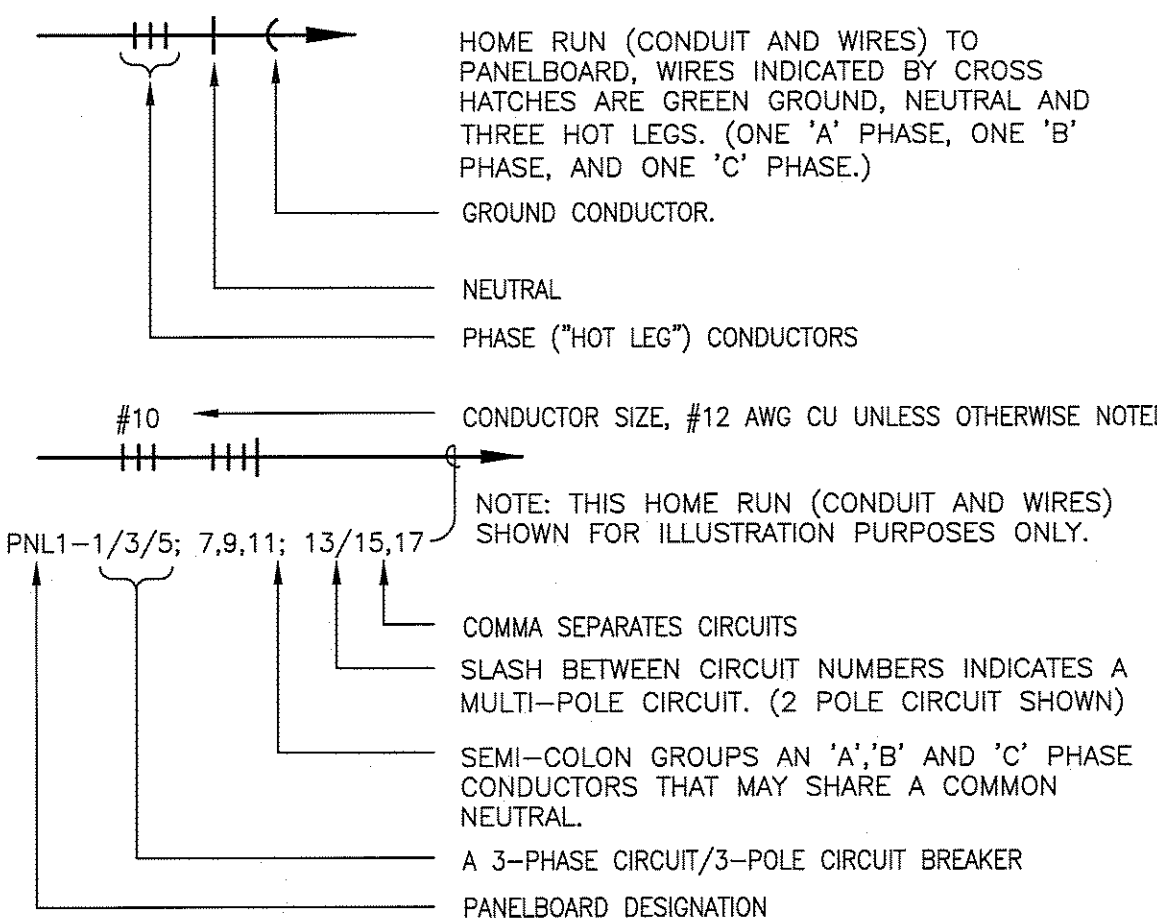
CONDUIT SYMBOLS



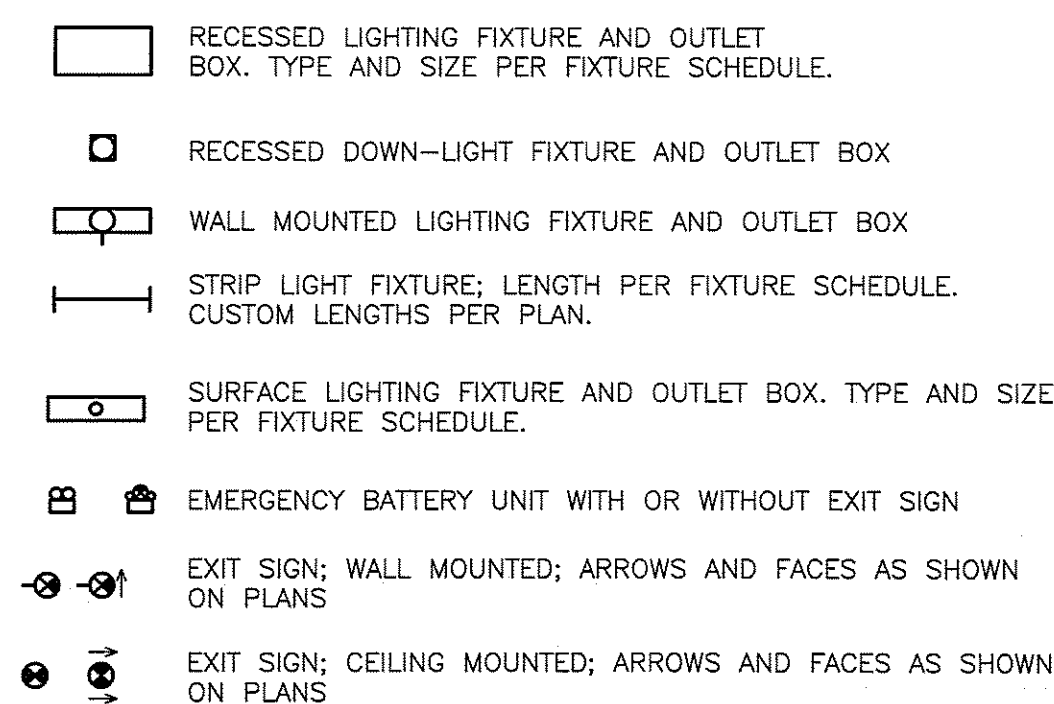
NUMBER OF CROSSMARKS ON ANY BRANCH CONDUIT INDICATES THE QUANTITY OF THHN/THWN INSULATED CONDUCTORS AS FOLLOWS:

- A. NO CROSSMARKS INDICATES TWO (2) #12 AWG CURRENT CARRYING CONDUCTORS, PLUS A #12 AWG INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR.
- B. THREE TO EIGHT (3-8) CROSSMARKS INDICATES THREE TO EIGHT (3-8) #12 AWG CURRENT CARRYING CONDUCTORS, PLUS A #12 AWG INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR, UON.
- C. WHERE NOTATION ADJACENT TO CROSSMARKS INDICATE CURRENT CARRYING CONDUCTORS LARGER THAN #10 AWG, PROVIDE, IN ADDITION TO THE CURRENT CARRYING CONDUCTORS INDICATED, AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250-95, UON.
- D. WHERE CIRCUIT WIRING FEEDS AN ISOLATED GROUND RECEPTACLE, IN ADDITION TO THE CURRENT CARRYING CONDUCTORS INDICATED BY CROSSMARKS, PROVIDE AN INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR BONDED TO THE OUTLET BOX, PLUS A DEDICATED INSULATED GREEN CONDUCTOR WITH A YELLOW STRIPE, TERMINATING TO THE RECEPTACLE'S ISOLATED GROUND POINT AT ONE END AND THE PANELBOARDS ISOLATED GROUND BUS AT THE OTHER END.
- E. SWITCH LEGS AND TRAVELERS BETWEEN 3-WAY AND 4-WAY SWITCHES ARE NOT SHOWN. PROVIDE WIRING BETWEEN SWITCHES AND FIXTURES, AND BETWEEN 3-WAY AND 4-WAY SWITCHES IN ACCORDANCE WITH ELECTRICAL INDUSTRY STANDARDS.

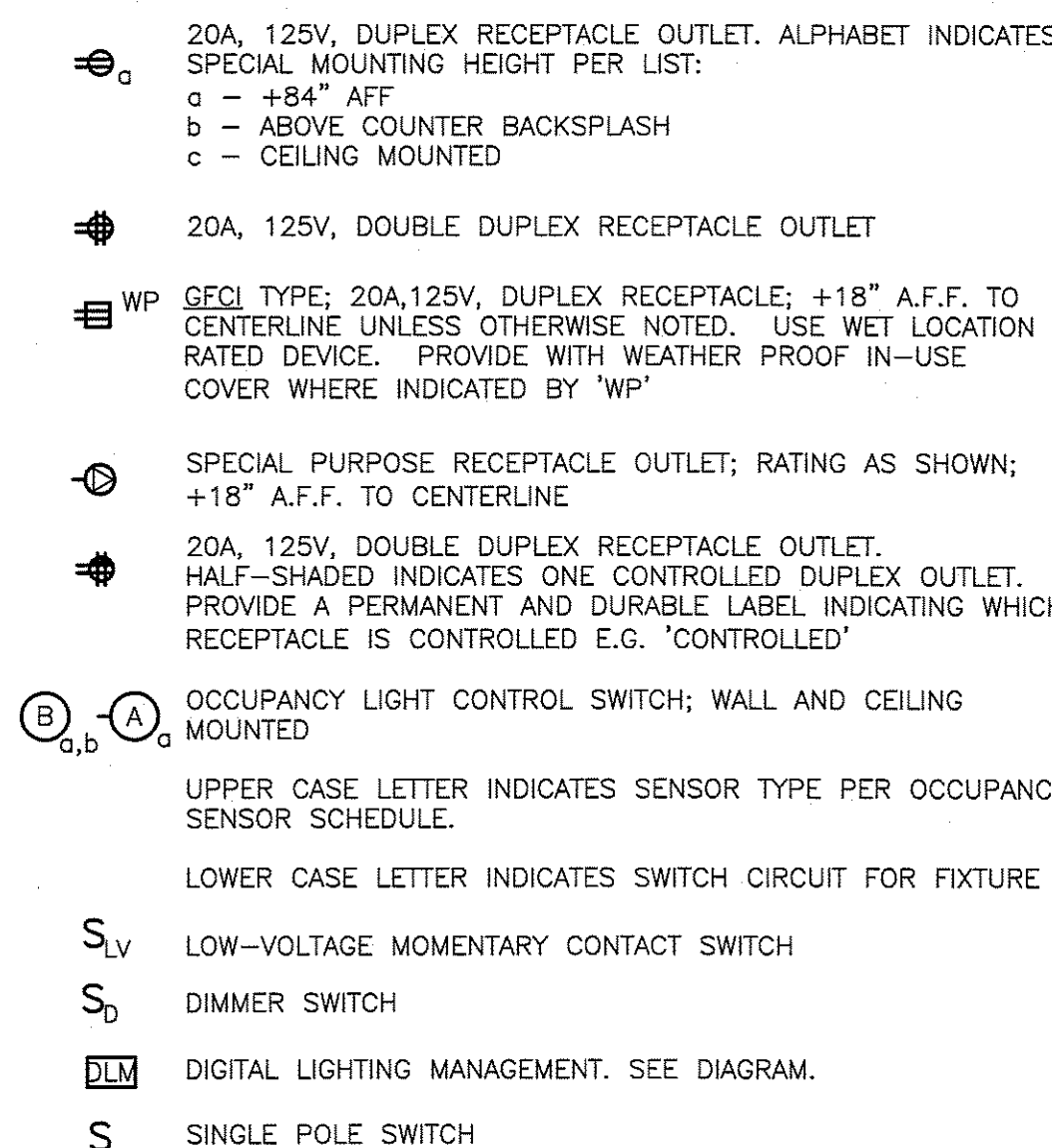
[NOTE: IN ALL CASES, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ADDITION TO THE QUANTITY OF CONDUCTORS INDICATED BY CROSSMARKS.]



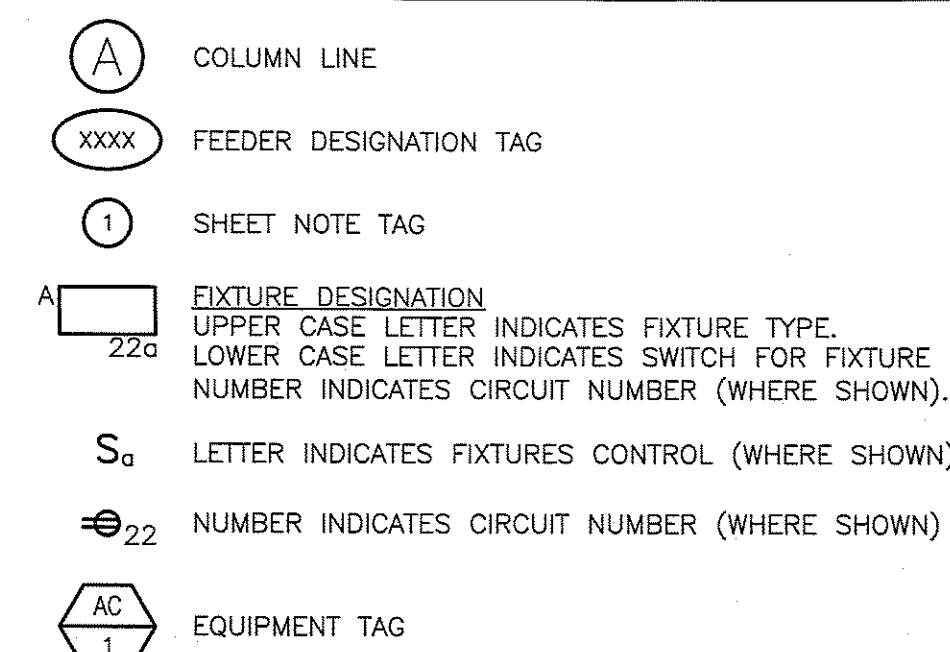
LIGHTING SYMBOLS



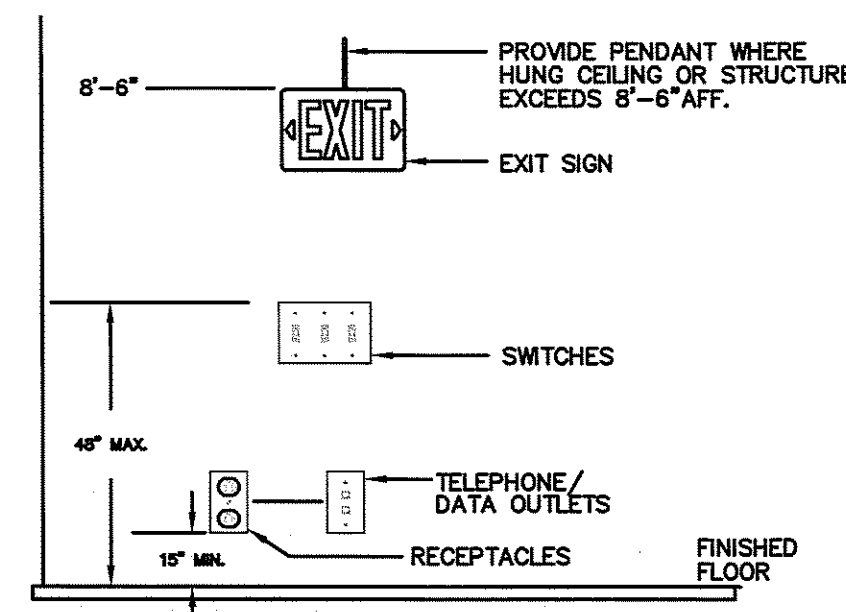
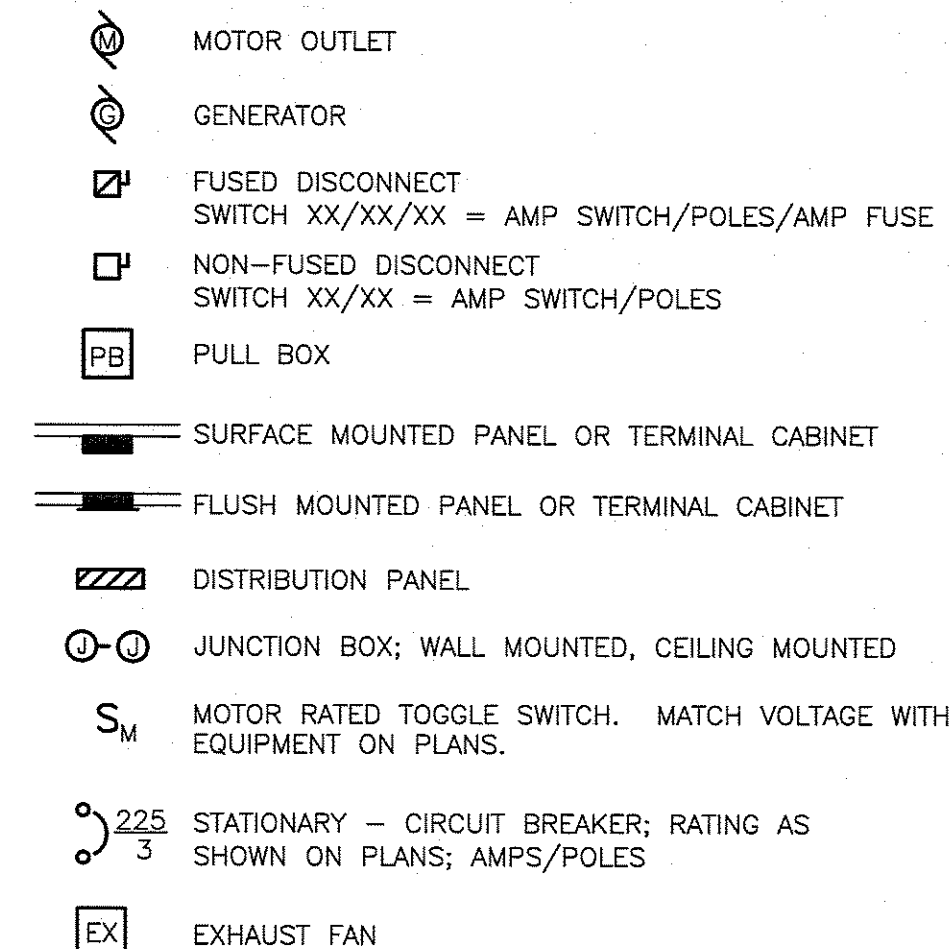
WIRING DEVICE SYMBOLS



DESIGNATION SYMBOLS



POWER SYMBOLS



- NOTES:
- ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS.
 - DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
 - ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.

TYPICAL DEVICE MOUNTING HEIGHT DETAIL

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR READING AND INCLUDING ALL INFORMATION PROVIDED IN THE WRITTEN NOTES THROUGHOUT THE DRAWINGS. SYSTEM REQUIREMENTS MAY NOT BE PICTORIAL.
- FURNISH ALL LABOR, MATERIALS, EQUIPMENT & SERVICES NECESSARY TO CONSTRUCT AND INSTALL COMPLETE & OPERATIONAL ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS & IN THE SPECIFICATIONS.
- THIS IS A DESIGN/BID PROJECT. CONTRACTOR TO PROVIDE A BID BASED ON THE STAMPED/PERMIT DRAWINGS. IF THESE PLANS ARE NOT THE FINAL PERMIT SET, DRAWINGS ARE SUBJECT TO CHANGE. IF SOME PORTION OF THE DESIGN IS EXCLUDED FROM THE BID, PROVIDE AN EXPLANATION TO THE OWNER IN THE BID DOCUMENT. THIS INSTRUCTION DOES NOT REPLACE BIDDING INSTRUCTIONS PROVIDED BY OWNER.
- CHANGES TO THE DESIGN ARE TO BE REQUESTED IN WRITING TO THE OWNER IN THE FORM OF A REQUEST FOR INFORMATION (RFI). CONTRACTOR IS RESPONSIBLE FOR CODE REQUIREMENTS ASSOCIATED WITH FIELD CHANGES AND DOCUMENTATION THEREOF.
- COORDINATE THE SHUT-OFF OF POWER WITH NEVADA COUNTY FACILITY MANAGER, NEVADA COUNTY I.T. DEPARTMENT, OR OWNER REPRESENTATIVE, WITHIN 14 DAYS OF WORK TO BE PERFORMED.
- PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER. [FIELD INSPECTIONS AND FINAL APPROVAL MAY BE DEPENDENT ON DOCUMENTATION OF FIELD CHANGES IN THE FORM OF AS-BUILT DRAWINGS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR REVIEW AND/OR APPROVAL OF AS-BUILT DRAWINGS.]
- ALL DEVICES AND EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED.
- PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL NEW AND EXISTING ELECTRICAL PANELS WHERE MODIFICATIONS WERE MADE.
- PROVIDE MELAMINE PLASTIC ENGRAVED LABELS FOR PANELS, MAIN SWITCHBOARD DISCONNECTS, AND ALL MAJOR ELECTRICAL EQUIPMENT.
- DO NOT INSTALL RECEPTACLES OR TELEPHONE OUTLETS BACK-TO-BACK IN DEMISING WALLS.
- PROVIDE #12 CONDUCTORS FOR ALL WIRING FOR CIRCUITS WHERE NOT SHOWN ON DRAWINGS. NUMBER AS REQUIRED IN CONDUIT SIZED PER NEC. PROVIDE CONDUIT OR METAL SHEATHED CABLE FOR ALL CONDUCTORS, UNLESS OTHERWISE APPROVED.
- INSTALL AND CONNECT A CODE SIZE INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS. THESE EQUIPMENT GROUND WIRES MAY NOT BE SHOWN ON THE PLANS. INCREASE CONDUIT SIZE WHERE REQUIRED.
- ELECTRICAL PANELBOARDS SHALL HAVE DOOR-IN-DOOR FRONT COVERS.
- FEEDERS ROUTED EXPOSED AT CEILING OR WALL SHALL BE APPROVED PRIOR TO ROUGH-IN.
- VERIFY CONTROL REQUIREMENTS FOR ROOF EQUIPMENT, EXHAUST FANS, AIR CONDITIONING UNITS, AND FANS PRIOR TO ROUGH-IN.
- ACCEPTANCE TESTING IS NOT REQUIRED IF LESS THAN 20 FIXTURES ARE CONTROLLED WITH THE NEW LIGHTING CONTROL SYSTEM (EXCEPTION 141.0(b)(2) OF 2016 CALIFORNIA ENERGY CODE). IF MORE THAN 20 FIXTURES ARE INSTALLED, A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN IS REQUIRED TO PERFORM THE TESTS SET FORTH IN THE NRCA SERIES ACCEPTANCE FORMS.

DEMOLITION NOTES

- ALL EXISTING DEVICE LOCATIONS ARE TO REMAIN UNLESS DEMOLITION WORK REQUIRES THEIR REMOVAL, NOT ALL EXISTING DEVICES ARE SHOWN.
- MAINTAIN CIRCUIT CONTINUITY TO ALL REMAINING DEVICES. FIELD CHECK AND VERIFY THAT ALL EXISTING GROUNDING (IN AREA OF RENOVATION) TO EXISTING DEVICES TO REMAIN, IS ADEQUATELY TERMINATED. PROVIDE NEW GROUND WIRE AS NEEDED.
- AS NEEDED TO MAINTAIN CIRCUIT CONTINUITY; PROVIDE A NEW PATHWAY AND CONDUCTORS TO REMAINING DEVICES.
- WHERE DEVICES ARE DEMOLISHED OR RELOCATED, REMOVE CONDUCTORS BACK TO NEAREST JUNCTION BOX AND REMOVE ALL ABANDONED PATHWAY FROM AREA OF WORK.
- WHERE A LOAD IS REMOVED FROM PANEL 'A', REMOVE CONDUIT AND CONDUCTORS BACK TO PANEL.
- WHERE DEVICES OR LUMINAIRES ARE DEMOLISHED OR RELOCATED; PATCH, REPAIR AND REFINISH WALLS.
- ALL EXISTING RECEPTACLE DEVICES TO REMAIN (IN AREA OF RENOVATION) ARE TO BE REPLACED WITH NEW DEVICES AND COVER PLATES AS PART OF NEW WORK.

WORK STATEMENT

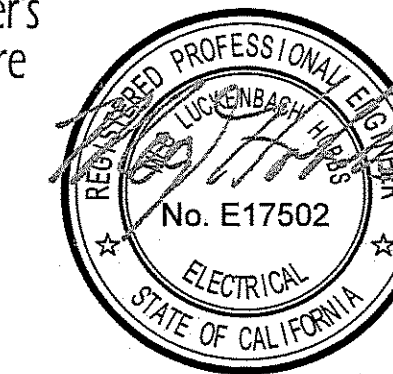
- GENERAL OVERVIEW/DESCRIPTION OF MAJOR ITEMS:
- REMOVE EXISTING GENERATOR AND REPLACE WITH NEW. FIELD VERIFY LOCATION. OWNER TO PROVIDE NEW GENERATOR.
 - REMOVE EXISTING AUTOMATIC TRANSFER SWITCH AND REPLACE WITH NEW. OWNER TO PROVIDE NEW ATS.
 - PANEL 'A' REPLACEMENT AND PANEL 'A1' REMOVAL WITH RE-CONNECTION OF ALL ASSOCIATED CIRCUITS TO NEW PANEL 'A'.
 - NEW POWER AND LIGHTING TO NEW PROCESSING ROOM, ADA BATHROOM, AND BREAK ROOM.
 - NEW DEDICATED CIRCUITS TO EXISTING REFRIGERATORS IN REFRIGERATOR ROOM.

ELECTRICAL SHEET INDEX		
SHEET	DESCRIPTION	SCALE
E0.1	ONE-LINE DIAGRAM, LEGEND, & NOTES	NONE
E0.2	SCHEDULES	NONE
E2.1	LIGHTING PLAN	1/4" = 1'-0"
E3.1	POWER PLAN	1/4" = 1'-0"
ES.1	TITLE 24 - LIGHTING	NONE
ES.2	TITLE 24 - LIGHTING	NONE

Spectral Engineering
Electrical Consulting Engineers

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Engineer's Signature



Project Title

SHERIFF PROPERTY UNIT
PROCESSING ROOM

15076 STATE HIGHWAY 49
NEVADA CITY, CA 95959

Revisions

RE-SUBMITTAL SET
DATE: 02-05-19

Job Number: S18-022
Date: 10-12-18
Drawn: MLH
Checked: MLH

Sheet Title

ONE-LINE DIAGRAM, LEGEND, AND NOTES

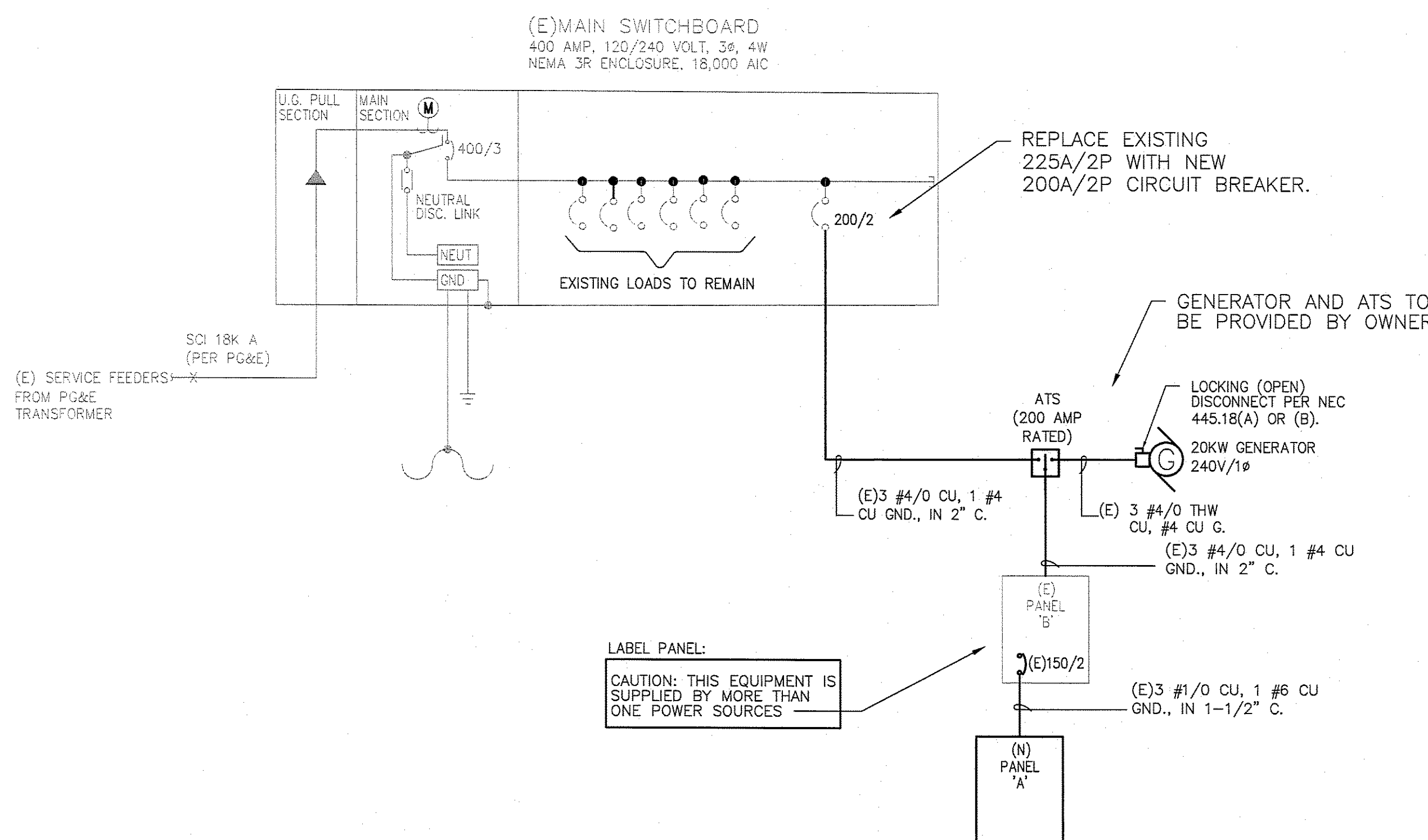
JOB SET

Sheet

E0.1

SINGLE LINE DIAGRAM

SCALE: NONE



(N) PANEL 'A'		Bus Rating (Amps): 200				*SEE NOTES BELOW FOR FURTHER INFORMATION AND PANEL OR CIRCUIT REQUIREMENTS.				
Main: MLO (150A FEEDERS)		Volts: 120/240V								
Enclosure SURFACE		Phase: 1								
AIC 18,000		Wires: 3								
Ckt	Description	Load Type	Load (KVA)	OC Device	Phase	Load (KVA)	OC Device	Phase	Description	Ckt
1	LIGHTING - CORRIDOR	1	0.50	20	A	0.00	-	-	SPARE	2
3	FIRE ALARM PANEL	1.5	7.00	20	B	0.40	1	1	LIGHTING - EAST OFFICES/MAIN HALL B	4
5	LIGHTING - MECH & EXT. HALL	1	0.90	20	A	0.40	1	1	LIGHTING - MULTI-RM	6
7	RECEPT, KITCHEN	1	2.00	20	B	0.54	1	1	LIGHTING - WEST OFFICES/RECEPT	8
9	DATA RACK	1	2.00	20	A	0.54	2	1	RECEPTACLES	10
11	RECEPT - WEST OFFICES	1	2.00	20	B	0.00	-	-	SPARE	12
13	RECEPT - EAST OFFICES	1	2.00	20	A	0.36	2	1	RECEPT - STORAGE RM.	14
15	LIGHTING - EXTERIOR	1	0.40	20	B	0.50	1	1	LIGHTING - SECURITY	16
17	FURNACE F1	1	5.00	20	A	2.10	4	2,3	REFRIGERATOR (3-door)	18
19	FURNACE F2	1	5.00	20	B	1.20	3	2,3	FREEZER 4	20
21	RECEPT - DNA RM, EQ-7	2	2.00	20	A	2.56	3	1	AC/DAIKIN (DUCTLESS)	22
23	RECEPT - DNA RM, EQ-2,4	2	2.00	20	B	1.56	3	1	"	24
25	RECEPT - FINGERPRINT RM.	2	2.00	20	A	1.20	3	2,3	FREEZERS 3	26
27	RECEPT	1	2.00	20	B	0.90	3	2,3	CORNER FRIG 1	28
29	RECEPT - FINGERPRINT RM, EQ-3,6	2	2.00	20	A	0.90	3	2,3	FRIG 3	30
31	RECEPT - FINGERPRINT, EQ-5	3	2.00	20	B	1.20	3	2,3	FREEZERS 2	32
33	FC-1	2	3.00	15	2	1.20	3	2,3	FREEZERS 1	34
35	SPACE	-	0.00	-	-	0.00	-	-	SPACE	36
37	SPACE	-	0.00	-	-	0.00	-	-	SPACE	38
39	SPACE	-	0.00	-	-	0.00	-	-	SPACE	40

(E) PANEL 'A' (TO BE REMOVED)		Bus Rating (Amps): 150				*SEE NOTES BELOW FOR FURTHER INFORMATION AND PANEL OR CIRCUIT REQUIREMENTS.				
Main: MLO		Volts: 120/240V								
Enclosure SURFACE		Phase: 1								
AIC 18,000		Wires: 3								
Ckt	Description	Load Type	Load (KVA)	OC Device	Phase	Load (KVA)	OC Device	Phase	Description	Ckt
1	LIGHTING - CORRIDOR	1	0.50	20	A	0.00	-	-	LIGHTING/PLUGS DETENTION CELL A/B	2
3	FIRE ALARM PANEL	1	7.00	20	B	0.50	1	1	LIGHTING - EAST OFFICES/MAIN HALL B	4
5	LIGHTING - MECH & EXT. HALL	1	1.00	20	A	0.50	1	1	LIGHTING - MULTI-RM	6
7	MICROWAVE OVEN (REMOVE)	2	0.00	20	B	0.50	1	1	LIGHTING - WEST OFFICES/RECEPT	8
9	MICROWAVE OVEN (REMOVE)	2	0.00	20	A	0.54	2	1	RECEPT - STOVE & HALL	10
11	RECEPT - WEST OFFICES	1	2.00	20	B	0.00	-	-	RECEPT - LAUNDRY (REMOVE)	12
13	RECEPT - EAST OFFICES	1	2.00	20	A	0.36	2	1	RECEPT - STORAGE RM.	14
15	LIGHTING - EXTERIOR	1	1.00	20	B	0.50	1	1	LIGHTING - SECURITY	16
17	FURNACE F1	1	7.00	20	A	1.20	3	1	REFRIGERATOR (3-door frig)	18
19	FURNACE F2	1	7.00	20	B	0.90	3	1	FREEZER 4/COMPRESSOR	20
21	SUB-PANEL A1 (CONSOLIDATE LOAD)	2	7.00	50	2	1.80	4	1	AC/DAIKIN (DUCTLESS)	22
23	"	2	7.00	-	-	1.80	4	1	"	24
25	GARBAGE DISPOSAL (REMOVE)	2	0.00	20	A	0.00	-	-	DRYER (REMOVE)	26
27	RECEPT	1	2.00	20	B	0.00	-	-	SPARE	28
29	DISHWASHER (REMOVE)	2	0.00	50	2	0.00	-	-	EX HOOD (REMOVE)	30
31	"	2	0.00	-	-	0.00	-	-	"	32

(E) PANEL 'B'		Bus Rating (Amps): 225				*SEE NOTES BELOW FOR FURTHER INFORMATION AND PANEL OR CIRCUIT REQUIREMENTS.				
Main: MLO		Volts: 120/240V								
Enclosure SURFACE		Phase: 1								
AIC 18,000		Wires: 3								
Ckt	Description	Load Type	Load (KVA)	OC Device	Phase	Load (KVA)	OC Device	Phase	Description	Ckt
1	LIGHTING	1	0.50	20	A	0.00	-	-	SPARE	2
3	LIGHTING C-WING HALL LIGHTS	1	0.40	20	B	0.90	2	1	CONVENIENCE OUTLETS	4
5	LIGHTING C-WING HALL LIGHTS	1	0.40	20	A	0.00	-	-	EXHAUST FAN	6
7	FURNACE	1	5.00	20	B	0.00	-	-	SPARE	8
9	C-2 WING LIGHTS	1	1.00	20	A	0.00	-	-	GATE	10
11	C-1 WING LIGHTS	1	1.00	20	B	0.00	-	-	SPACE	12
13	AUTOMATIC DOOR MOTOR	4	3.00	20	A	0.00	-	-	SPACE	14
15	SPACE	-	0.00	-	-	0.00	-	-	SPACE	16
17	SPACE	-	0.00	-	-	0.00	-	-	SPACE	18
19	SPACE	-	0.00	-	-	0.00	-	-	SPACE	20
21	HP-1	4	4.00	20	2	30.00	2	2	SPACE	22
23	"	4	4.00	1.90	-	0.00	-	-	PANEL A	24

LOAD PER PHASE		A		B		C		D	
LOAD TYPE (NUMBER)	0	1	2	3	4	5	6	7	Total
LOAD TYPE (DESCRIPTION)	P.Rm.L	Lighting	Recept	Motors	L. Mot.	Kitch	Elevator	Equip	Total
TOTAL CONNECTED LOAD (KVA)	0.00	3.64	5.94	10.08	2.10	1.20	0.00	0.20	23.16
DEMAND MULTIPLIER	1.00	1.25	formula*	1.00	1.25	0.65	1.00	1.00	
TOTAL DESIGN LOAD	0.00	4.55	5.94	10.08	2.63	0.78	0.00	0.20	26.28
TOTAL AMPS	0.0	12.6	16.5	28.0	7.3	2.2	0.0	0.6	109.5

LOAD PER PHASE		A		B		C		D	
LOAD TYPE (NUMBER)	0	1	2	3	4	5	6	7	Total
LOAD TYPE (DESCRIPTION)	P.Rm.L	Lighting	Recept	Motors	L. Mot.	Kitch	Elevator	Equip	Total
TOTAL CONNECTED LOAD (KVA)	0.00	3.80	3.06	2.10	3.60	0.00	0.00	1.40	13.96
DEMAND MULTIPLIER	1.00	1.25	formula*	1.00	1.25	0.65	1.00	1.00	
TOTAL DESIGN LOAD	0.00	4.75	3.06	2.10	4.50	0.00	0.00	1.40	14.80
TOTAL AMPS	0.0	13.2	8.5	5.8	12.5	0.0	0.0	3.9	60.8

LOAD PER PHASE		A		B		C		D	
LOAD TYPE (NUMBER)	0	1	2	3	4	5	6	7	Total
LOAD TYPE (DESCRIPTION)	P.Rm.L	Lighting	Recept	Motors	L. Mot.	Kitch	Elevator	Equip	Total
TOTAL CONNECTED LOAD (KVA)	0.00	2.70	0.90	2.40	3.80	0.60	0.00	23.16	33.56
DEMAND MULTIPLIER	1.00	1.25	formula*	1.00	1.25	0.65	1.00	1.00	
TOTAL DESIGN LOAD	0.00	3.38	0.90	2.40	4.75	0.39	0.00	23.16	38.08
TOTAL AMPS	0.0	9.4	2.5	6.7	13.2	1.1	0.0	64.3	158.7

NOTES:
 1 EXISTING LOAD TO BE RECONNECTED TO NEW PANEL
 2 NEW CIRCUIT BREAKER, NEW LOAD
 3 NEW DEDICATED CIRCUIT
 4
 5 PROVIDE LOCKING MECHANISM ON CIRCUIT BREAKER

NOTES:
 1 EXISTING LOAD TO BE RECONNECTED TO NEW PANEL
 2 REMOVE EXISTING LOAD
 3
 4

NOTES:
 1 EXISTING CIRCUIT BREAKER, EXISTING LOAD
 2 REMOVE EXISTING LOAD, REUSE AS SHOWN
 3 NEW DEDICATED CIRCUIT
 4 NEW CIRCUIT BREAKER, NEW LOAD
 5 EXISTING LOAD TO BE REMOVED. REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE COVER.

ALL EXISTING CIRCUITS TO BE FIELD VERIFIED AND RECONNECTED PER NEW (OR MODIFIED) PANEL SCHEDULES

PROVIDE AS-BUILT, TYPE-WRITTEN PANEL SCHEDULE FOR ALL LOADS IN PANEL.

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURE	CATALOG #	LAMP		MOUNTING	NOTES	WATTS	
				TYPE	No.			TYPE	WATTS
F1	6" LED RECESSED DOWNLIGHT, DIMMABLE, SPECULAR CLEAR REFLECTOR, 2000 LUMENS, 80 CRI	LITHONIA	LDN6-35-20-L06-AR-LSS-MVOLT-EZ10	3500K	1	22	0-10V LED DRIVER	RECESSED	COUNTER AREAS
F2	1X4 SURFACE LED, DIMMABLE, 4000 LUMENS, 80 CRI	LITHONIA	LBL4-4000LM-80-35K-MVOLT	3500K	1	32	0-10V LED DRIVER	SURFACE	BATHROOM, BREAK ROOM
EM	EMERGENCY EGRESS LIGHT, LED	HUBBELL	CCU2RC	LED	2	9	-	PER PLANS	EGRESS PATHWAYS
EX	EMERGENCY LIGHT/EXIT SIGN COMBO	HUBBELL	CLSC-1-R-W-ARROW PER PLANS	LED	2	11	-	PER PLANS	EGRESS PATHWAYS

NOTES:
 A. ALL LED FIXTURES TO BE PROVIDED WITH NO LESS THAN A 5-YEAR WARRANTY
 B. LAMPS TO HAVE 80+ CRI UNLESS OTHERWISE NOTED.
 C. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
 D. USE LIGHTING FIXTURES NOTED IN THE FIXTURE SCHEDULE OR APPROVED EQUAL.

CONTROLS DEVICE SCHEDULE								
SYMBOL	MODEL	MANUFACTURE	TYPE	VOLTAGE	CONTROLLER	MOUNTING	LOCATIONS	SETTINGS
S1	WSX PDT SA 2P LT	ACUITY	2-RELAY/PIR OCCUPANCY SENSOR/WET	LINE VOLTAGE	-	WALL	WITH FAN CONTROL	Auto-ON, Time delay - 15 minutes
S2	nWSX PDT D	ACUITY	OCCUPANCY SENSOR & DIMMER	LOW VOLTAGE	-	WALL	PASS THRU	Auto-ON, Time delay - 15 minutes, ramp up - 1, fade - 2
OS1	nCM PDT 10	nLight	DUAL TECH OCCUPANCY SENSOR	LOW VOLTAGE	-	CEILING	WORK ROOMS	AUTO-ON, Time delay - 30 minutes
R1	nPP16-D-XX	nLight	0-10V DIMMING RELAY	LINE VOLTAGE & CAT-5	-	1/2" NIPPLE	0-10V DIMMING	ONE PER CONTROL CIRCUIT
D	nPODM-DX	nLight	DIMMER	LOW VOLTAGE	-	WALL	0-10V DIMMING	PROGRAM FOR 2-HOUR OVER-RIDE.

NOTES:
 A. DESIGN IS BASED ON ACUITY BRANDS. CONTRACTOR TO PROVIDE SUBMITTAL
 B. INCLUDE 1 BLUETOOTH SETTING TOOL FOR PROGRAMMING DEVICES, nLight nIO BT.
 C. USE CONTROL DEVICES NOTED IN THE CONTROL DEVICE SCHEDULE OR APPROVED EQUAL.
 D. PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE OWNER, ARCHITECT, OR OWNER REPRESENTATIVE.

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 Electrical Consulting Engineers
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Engineer's Signature

Project Title

SHERIFF PROPERTY UNIT
 PROCESSING ROOM

15076 STATE HIGHWAY 49
 NEVADA CITY, CA 95959

Revisions

PLAN REVIEW #1

RE-SUBMITTAL SET
 DATE: 02-06-19

Job Number: S18-022
 Date: 10-12-18
 Drawn: MLH
 Checked: MLH

Sheet Title

SCHEDULES
 JOB SET

Sheet

E0.2

① SHEET NOTES

1. PROVIDE UNSWITCHED CIRCUIT FOR EMERGENCY EGRESS LIGHTING, TYPICAL.
2. CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT FOR THIS SPACE. FIELD VERIFY AND UPDATE PANEL SCHEDULE.
3. LOCATE LIGHTING CONTROL RELAYS ABOVE CEILING IN ACCESSIBLE LOCATION. PROVIDE ONE RELAY PER CONTROL CIRCUIT. RELAY MOUNTS TO JUNCTION BOX WITH 1/2" NIPPLE. SEE MANUFACTURER'S SCHEMATICS FOR CAT-5 CABLING REQUIREMENTS.
4. CONNECT EGRESS LIGHT TO CORRIDOR CIRCUIT (UNSWITCHED).
5. FOOTCANDLE VALUE, TYPICAL.



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Engineer's Signature



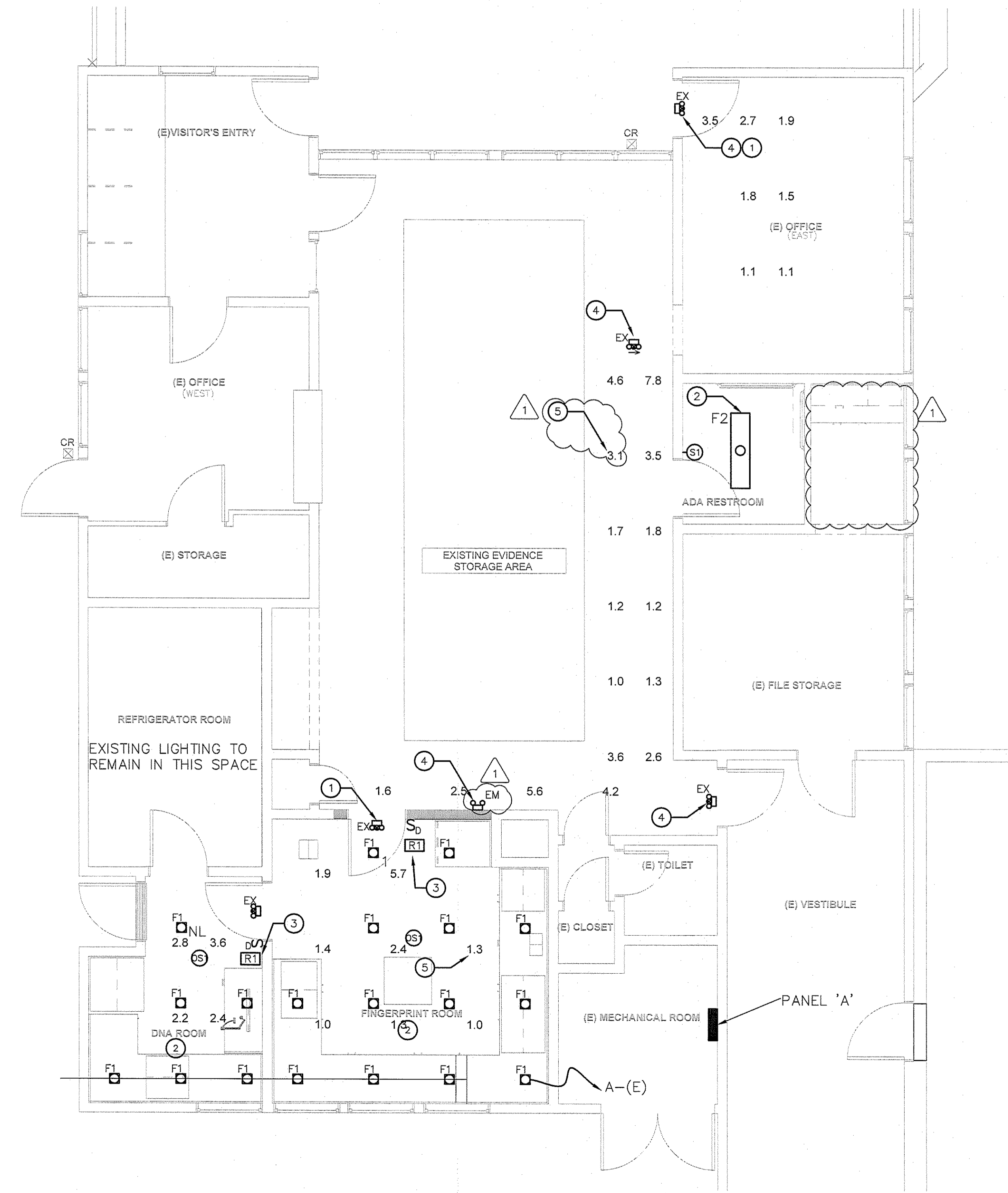
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NEVADA CITY, CA 95959

GENERAL NOTES

- A. CHANGES TO LIGHT FIXTURE TYPE, OR SUBSTITUTIONS, ARE TO BE REQUESTED IN THE FORM OF A 'REQUEST FOR INFORMATION' (RFI). INCLUDE A COMPLETE SPECIFICATION FOR THE SUBSTITUTION TO ADDRESS ALL REQUIREMENTS SHOWN IN THE FIXTURE SCHEDULE. INCOMPLETE SUBMITTALS WILL BE REJECTED ON THIS BASIS.
- B. CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL WORK REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM FOR THE IMPROVEMENTS INDICATED.
- C. ALL CONDUITS AND RACEWAYS SHALL BE RUN IN LOCATIONS WHERE THEY WILL NOT BE VISIBLE.
- D. PROVIDE 2 #12 CONDUCTORS AND 1 #12 GROUND UNLESS OTHERWISE NOTED.
- E. INTERIOR ELECTRICAL PANELS TO BE NEMA1 WITH LOCKING ENCLOSURE.



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

Revisions

RE-SUBMITTAL SET
DATE: 02-05-19

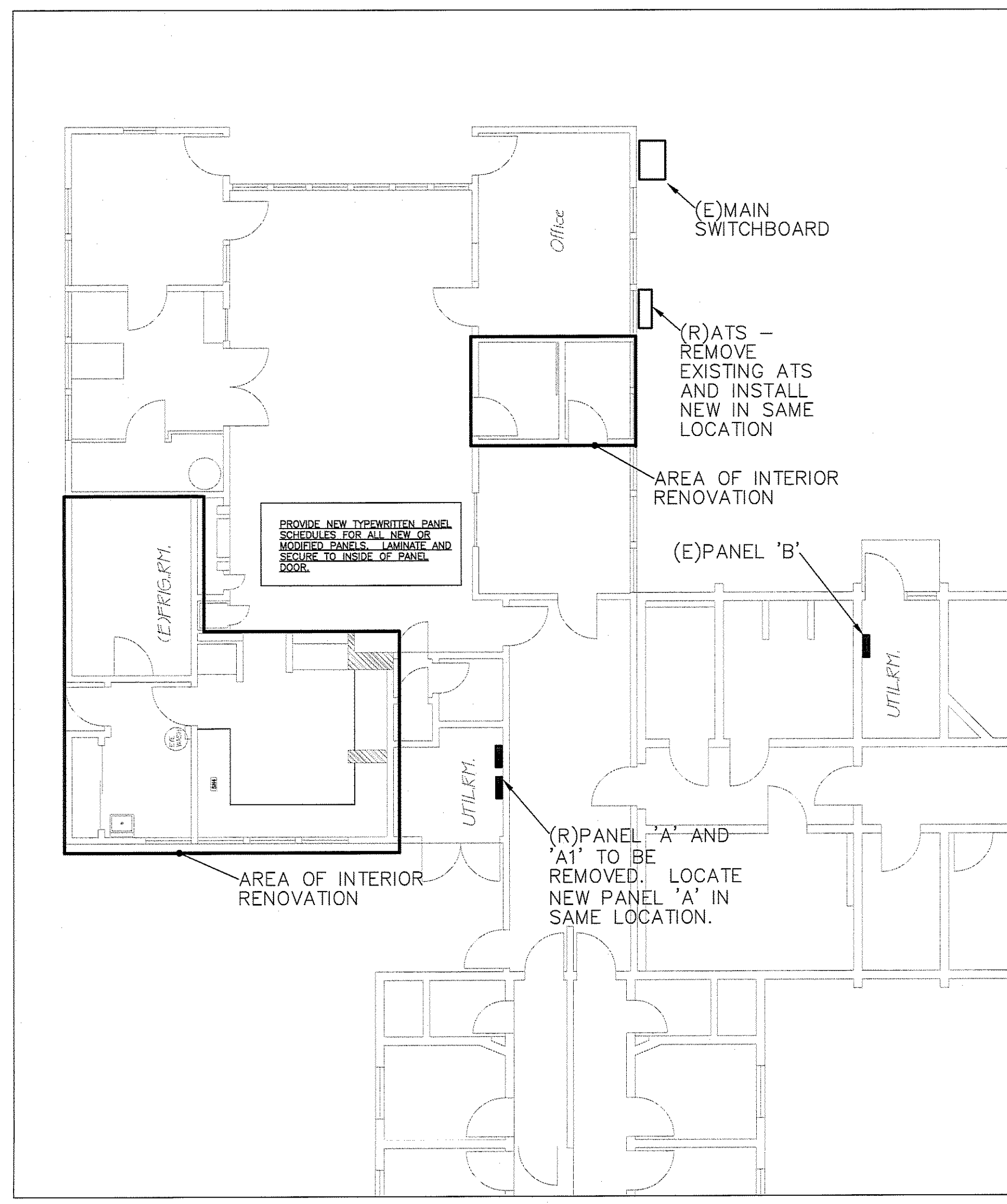
Job Number S18-022
Date 10-12-18
Drawn MLH
Checked MLH

Sheet Title

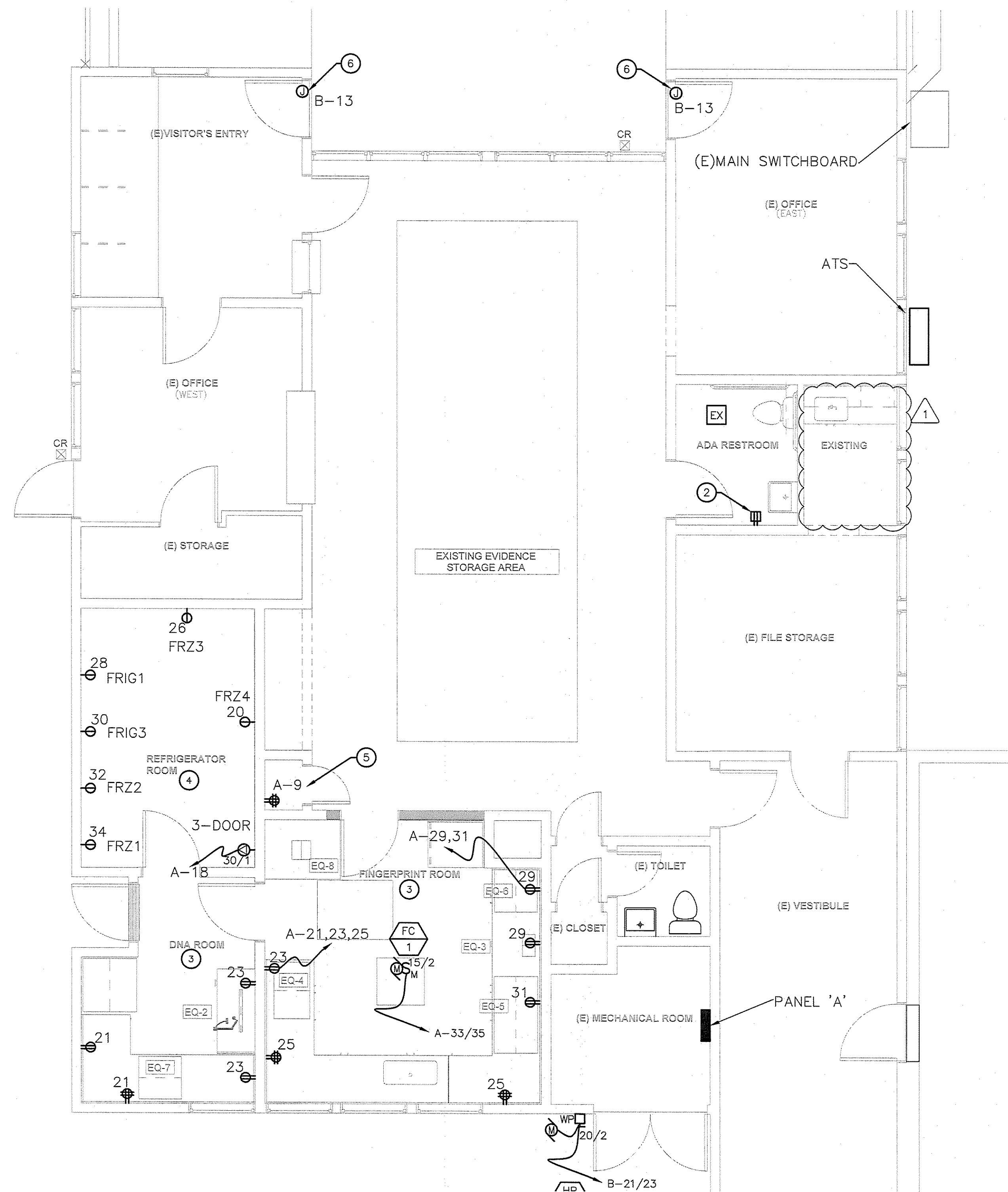
LIGHTING PLAN
JOB SET

Sheet

E2.1



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



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

Ⓢ SHEET NOTES

1. VERIFY MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL INFORMATION (VOLTAGE, AMPERAGE, ETC.) WITH CURRENT MECHANICAL AND PLUMBING EQUIPMENT DRAWINGS AND MECHANICAL AND PLUMBING SUBMITTALS PRIOR TO ROUGH-IN. NOTE: VOLTAGE, AMPERAGE, OR QUANTITY MAY CHANGE DURING THE SUBMITTAL PROCESS WITHOUT NOTICE. IF THE ELECTRICAL INFORMATION DOES NOT MATCH THE INFORMATION PROVIDED ON THE ELECTRICAL DRAWINGS, NOTIFY OWNER OR OWNER REPRESENTATIVE PRIOR TO INSTALLATION AND/OR ORDERING OF MATERIAL.
2. PROVIDE NEW RECEPTACLE AT THIS LOCATION. CONNECT TO EXISTING RECEPTACLE CIRCUIT FOR THIS SPACE.
3. RECEPTACLES IN THIS SPACE TO BE LOCATED ABOVE BACKSPASH, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
4. PROVIDE NEW DEDICATED SINGLE RECEPTACLES AS SHOWN. LABEL COVER-PLATE WITH PANEL AND CIRCUIT NUMBER. EXISTING CONVENIENCE OUTLETS THAT DON'T INTERFERE WITH NEW WORK SHOULD REMAIN.
5. RELOCATE DEDICATED SERVER POWER TO NEW CLOSET LOCATION. REMOVE EXISTING RECEPTACLE DEVICE AND OUTLET BOX. COORDINATE CUT-OVER OF POWER WITH COUNTY REPRESENTATIVE.
6. PROVIDE 120V CIRCUIT TO NEW POWER DOOR OPENERS. LOCATION JUNCTION BOX ABOVE DOOR AND COORDINATION EXACT LOCATION WITH EQUIPMENT REQUIREMENTS.

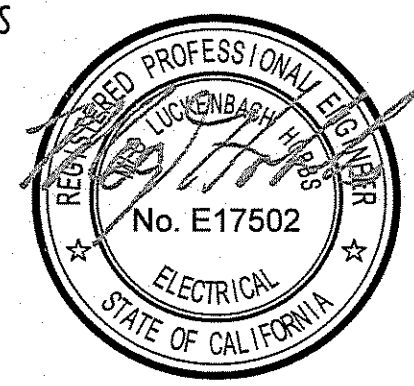
GENERAL NOTES

- A. CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL WORK REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM FOR THE IMPROVEMENTS INDICATED.
- B. ALL CONDUITS AND RACEWAYS SHALL BE RUN IN LOCATIONS WHERE THEY WILL NOT BE VISIBLE.
- C. PROVIDE 2 #12 CONDUCTORS AND 1 #12 GROUND UNLESS OTHERWISE NOTED.
- D. INTERIOR ELECTRICAL PANELS TO BE NEMA1 WITH LOCKING ENCLOSURE.
- E. EXTERIOR ELECTRICAL PANELS TO BE NEMA 3R WITH LOCKING ENCLOSURE.
- F. PANELS TO BE MARKED FOR ARC FLASH HAZARD PER CEC110.16, MARKING TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT.
- G. PROVIDE LOCKING MECHANISM ON ALL CIRCUIT BREAKERS FEEDING FIRE ALARM, SECURITY PANELS, OR CCTV EQUIPMENT.

Spectral Engineering
Electrical Consulting Engineers

CONTACT: MEG L. HOBBS, PE, LEED AP
EMAIL: meg.hobbs@SPECTRAENGINEERING.COM
PHONE: 916-599-2439

Engineer's Signature



Project Title

SHERIFF PROPERTY UNIT
PROCESSING ROOM

15076 STATE HIGHWAY 49
NEVADA CITY, CA 95959

Revisions

- 1 PLAN REVIEW #1

RE-SUBMITTAL SET
DATE: 02-06-19

Job Number: S18-022
Date: 10-12-18
Drawn: MLH
Checked: MLH

Sheet Title

POWER PLAN
JOB SET

Sheet

E3.1

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRCC-LTI-01-E (Page 3 of 6)

Project Name: SPU Date Prepared: 11/3/18

E. Declaration of Required Certificates of Acceptance
Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: CONDITIONED SPACE UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist
The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
 When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
 When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines.
 Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRCC-LTI-01-E (Page 2 of 6)

Project Name: SPU Date Prepared: 11/3/18

C. Summary of Allowed Lighting Power
Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces	Watts		Indoor Lighting Power for Unconditioned Spaces	Watts	
	Installed Lighting	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)		Installed Lighting	Adjusted Installed Lighting Power (row 1 minus row 3)
01	NRCC-LTI-01-E, Table H, page 5 Portable Only for Offices	460	NRCC-LTI-01-E, Table H, page 5	0	
02	NRCC-LTI-01-E, Table G, page 4 Minus Lighting Control Credits	0	NRCC-LTI-02-E, page 2 Minus Lighting Control Credits	0	
03	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	460	Adjusted Installed Lighting Power (row 1 minus row 3)	0	
Complies ONLY if Installed < Allowed (Box 04 < Box 05)			Complies ONLY if Installed < Allowed (Box 04 < Box 05)		
Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2			Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-05, page 2		

D. Declaration of Required Certificates of Installation
Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRCC-LTI-01-E (Page 1 of 6)

Project Name: SPU Date Prepared: 11/3/18

A. General Information
Climate Zone: 11 (NC) Conditioned Floor Area: 460
Unconditioned Floor Area: 0

Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocatable Public Schools Conditioned Spaces Unconditioned Spaces

Phase of Construction: New Construction Addition Alteration
Method of Compliance: Complete Building Area Category Tailored

Project Address: Nevada County, CA

B. Lighting Compliance Documents (select yes for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

NOTE: PAGE 4 OF 6 IS NOT PROVIDED. THERE ARE NO PORTABLE LUMINAIRES ON THIS PROJECT.

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CERTIFICATE OF COMPLIANCE
NRCC-LTI-02-E (Page 1 of 3)

Project Name: SPU Date Prepared: 11/3/18

A. Mandatory Lighting Control Declaration Statements (indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="radio"/>	<input checked="" type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="radio"/>	<input checked="" type="radio"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="radio"/>	<input type="radio"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
<input checked="" type="radio"/>	<input type="radio"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input type="radio"/>	<input checked="" type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input type="radio"/>	<input checked="" type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRCC-LTI-01-E (Page 6 of 6)

Project Name: SPU Date Prepared: 11/3/18

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Meg Hobbs
Signature Date: 11/8/18
Company: Spectral Engineering
Address: PO BOX 154
City/State/Zip: Chicago Park, CA 95712
Phone: 530-273-8701

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or systems design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Meg Hobbs
Signature Date: 11/8/18
Company: Spectral Engineering
Address: PO BOX 154
City/State/Zip: Chicago Park, CA 95712
Phone: 530-273-8701

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE
NRCC-LTI-01-E (Page 5 of 6)

Project Name: SPU Date Prepared: 11/3/18

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: CONDITIONED SPACE UNCONDITIONED SPACE

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule	Installed Watts				Location	Field Inspector ¹		
	01	02	03	04		05	06	07
Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CCC Inhibit from NLR	According to §100.0	Number Luminaires	Total Installed Watts in this area (NB: XWPS)	Primary Function area in which these luminaires are installed	Pass	Fail
F1	LED DOWNLIGHT	22	<input checked="" type="checkbox"/>	18	396	SCIENTIFIC	<input type="radio"/>	<input type="radio"/>
F2	LED 1X4	32	<input type="checkbox"/>	2	64	OTHER	<input type="radio"/>	<input type="radio"/>
INSTALLED WATTS PAGE TOTAL:					460	Enter sum total of all pages into NRCC-LTI-01-E, Page 2	<input type="radio"/>	<input type="radio"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

NOTE: QUANTITIES OF LIGHT FIXTURES OR OTHER DEVICES SHOWN IN THESE FORMS SHALL NOT BE USED FOR BIDDING PURPOSES.

Spectral Engineering
Electrical Consulting Engineers

CONTACT: MEG L. HOBBS, PE, LEED AP
EMAIL: meg.hobbs@SPECTRALENGINEERING.COM
PHONE: 916-999-2439

Engineer's Signature

REGISTERED PROFESSIONAL ENGINEER
No. E17502
ELECTRICAL
STATE OF CALIFORNIA

Project Title

SHERIFF PROPERTY UNIT
PROCESSING ROOM

15076 STATE HIGHWAY 49
NEVADA CITY, CA 95959

Revisions

1 PLAN REVIEW #1

RE-SUBMITTAL SET
DATE: 02-06-19

Job Number: S18-022
Date: 10-12-18
Drawn: MLH
Checked: MLH

Sheet Title

TITLE 24
LIGHTING
JOB SET

Sheet

E5.1



Digitally signed
by Bryan
McAlister
Date:
2019.02.22
10:31:23 -08'00'



Digitally signed
by Amy Wolfson
Date:
2019.02.21
11:48:55 -08'00'

NOTE:
A. SEE CIVIL DRAWINGS FOR GAS, ELECTRICAL & WATER LOCATIONS.
B. FOR FURTHER INFORMATION ON SITE IMPROVEMENTS SEE CIVIL DRAWINGS AND ENLARGED PARKING PLAN INDICATED.

SEE P1.1 FOR BACKFLOW PREVENTER DETAIL

(E) SEWER LINE

1 SITE PLAN
1" = 20'-0"

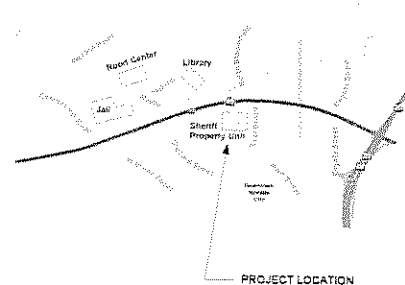
LEGEND

	AGGREGATE FILL
	EARTH
	CONCRETE
	CONCRETE UNIT MASONRY
	BATT INSULATION
	RIGID INSULATION
	STRUCTURAL SHEATHING
	WOOD FRAMING, CONTINUOUS
	WOOD FRAMING, BLOCKING
	GYPSUM BOARD
	WOOD FINISH

SYMBOLS

	SECTION VIEW
	GRID LINE
	WALL TYPE
	SHEET NOTE
	KEY NOTE
	DOOR TAG
	WINDOW TAG
	DETAIL NUMBER SHEET NUMBER
	CENTER LINE
	AFF REFERENCE HEIGHT
	ACCESSORY DESIGNATION

PROJECT VICINITY MAP



SHERIFF PROPERTY UNIT
950 Maidu Way
Nevada City, California

PROJECT TEAM

OWNER

COUNTY OF NEVADA
FACILITIES MANAGEMENT
100014 NORTH BLOOMFIELD
NEVADA CITY, CA 89569

JUSTIN DRINKWATER, FACILITIES DIRECTOR
(530) 470-2637
justin.drinkwater@co.nevada.ca.us

TIM HORNER, PROJECT MANAGER
(530) 265-1456
tim.horner@co.nevada.ca.us

ARCHITECT

WALLS DESIGN STUDIO ARCHITECTS, INC.
149 CROWN POINT COURT, STE C
GRASS VALLEY, CA 95945

ROBERT WALLIS, AIA
(530) 284-7010
robert.wallis@wdsai.us

CIVIL ENGINEER

SCO PLANNING & ENGINEERING, INC.
140 LITTON DRIVE, SUITE 240
GRASS VALLEY, CA 95945

MARTIN WOOD, PLS
(530) 272-5841
martinwood@scopeinc.net

MECHANICAL ENGINEER

MELAS ENERGY ENGINEERING
547 UREN STREET
NEVADA CITY, CA 95959

MICHAEL MELAS
(530) 265-2482
michael@melasenergy.com

ELECTRICAL DESIGNER

SPECTRAL ENGINEERING
PO BOX 154
CHICAGO PARK, CA 95712
MEG HOBBS, PE, LEED AP
(530) 273-8701
meg.hobbs@spectralengineering.com

PROJECT INFORMATION

LOCATION: SHERIFF PROPERTY UNIT
15076 STATE HIGHWAY 49
NEVADA CITY, CA 95959

GENERAL SCOPE OF WORK

PROJECT CONSIST OF:
REMODELING OF EXISTING FINGERPRINT & DNA PROCESSING ROOM, ADA RESTROOM & ADA COMPLIANCE UPGRADES TO THE PUBLIC PARKING & INTERIOR LOBBY AREA.

EXISTING BUILDING INFORMATION

APN: 05-040-03
TYPE OF CONSTRUCTION: TYPE V-B
EXISTING BUILDING HEIGHT: 25'
EXISTING NUMBER OF STORIES: 1

EXISTING BUILDING FLOOR AREA

PROJECT AREA: 2,164 SF
(E) STORAGE: 3,003 SF
5,167 SF (TOTAL EXISTING FLOOR AREA)

TENANT IMPROVEMENT

AREA OF IMPROVEMENT:
OFFICE/RESTROOM: 283 SF
ENTRY: 133 SF
DNAPRINT: 360 SF
776 SF (TOTAL AREA OF IMPROVEMENT)
OCCUPANCY GROUP: B
FIRE SPRINKLERS: N

CODES AND STANDARDS

ALL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA CODE OF REGULATIONS, TITLE 24, CALIFORNIA BUILDING STANDARDS COMMISSION (CBCS) - PARTS 1 THRU PART 12

- A. PART 1 - CALIFORNIA ADMINISTRATIVE CODE
- B. PART 2, VOLUME 1 OF 2 - CALIFORNIA BUILDING CODE (CBC)
- C. PART 2, VOLUME 2 OF 2 - CALIFORNIA BUILDING CODE (CBC)
- D. PART 25 - CALIFORNIA RESIDENTIAL CODE (CRC)
- E. PART 3 - CALIFORNIA ELECTRICAL CODE (CEC)
- F. PART 4 - CALIFORNIA MECHANICAL CODE (CMC)
- G. PART 5 - CALIFORNIA PLUMBING CODE (CPC)
- H. PART 6 - CALIFORNIA ENERGY CODE
- I. PART 7 - CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE
- J. PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
- K. PART 9 - CALIFORNIA FIRE CODE
- L. PART 10 - CALIFORNIA CODE FOR BUILDING CONSERVATION
- M. PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE
- N. PART 12 - CALIFORNIA REFERENCED STANDARDS CODE (CALGreen)

ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA CODE OF REGULATIONS (CCR), OFFICE OF ADMINISTRATIVE LAW.

- A. TITLE 18 C.C.R., PUBLIC SAFETY
- B. TITLE 24 C.C.R., BUILDING STANDARDS CODE

ALL WORK SHALL COMPLY WITH THE CURRENT FOLLOWING AUTHORITIES AND THEIR STANDARDS:

- A. BUILDING & SAFETY DIVISION
- B. PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT
- C. PUBLIC WORKS DEPARTMENT
- D. FIRE DEPARTMENT
- E. AMERICANS WITH DISABILITIES ACT - (ADA)

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A0.4 CAL-GREEN STANDARD CODE
A0.5 CAL-GREEN STANDARD CODE
A0.6 CAL-GREEN STANDARD CODE
A0.7 SHEET SPECIFICATION
A0.8 SHEET SPECIFICATION
A0.9 SHEET SPECIFICATION

CIVIL

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C2 NOTES
C3 EXISTING TOPOGRAPHY & DEMOLITION PLAN
C4 GRADING & DRAINAGE PLAN
C5 DETAILS

ARCHITECTURAL

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A3.0 RESTROOM, SCHEDULES & ACCESSORIES
A5.0 INTERIOR ELEVATIONS
A6.0 REFLECTED CEILING PLAN
A7.0 DETAILS

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P1.1 PLUMBING PLAN

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E0.2 SCHEDULES
E2.1 LIGHTING PLAN
E3.1 POWER PLAN
E5.1 TITLE 24 - LIGHTING
E5.2 TITLE 24 - LIGHTING

ENERGY

T-24 ENERGY FORMS AND CALCULATIONS



WALLS DESIGN STUDIO
ARCHITECTS, INC.

149 Crown Point Ct., Suite C
Grass Valley, CA 95945
(530) 264-7010
WallsDesignStudio.com

Sheriff
Property
Unit

NC Facilities
Management

15076 State Highway 49
Nevada City, California 95959
APN: 05-040-03

PERMIT DOCUMENTS

Stamp:



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without written approval is strictly forbidden.

Consultant:

RECEIVED

FEB 25 2019

CDA BUILDING

Proj. No.: 2018006

Date: 12/13/2018

Scale: As indicated

Drawn By: JMT

Revisions:

No.	Description	Date
1	Plan review	1/17/2019

Drawing Title:
COVER SHEET +
SITE PLAN

Drawing Number:

Ao.o

2/7/2019 9:06:27 AM

JOB SET