

# Antelope Valley Community College Campus Restroom Remodel - Phase 1

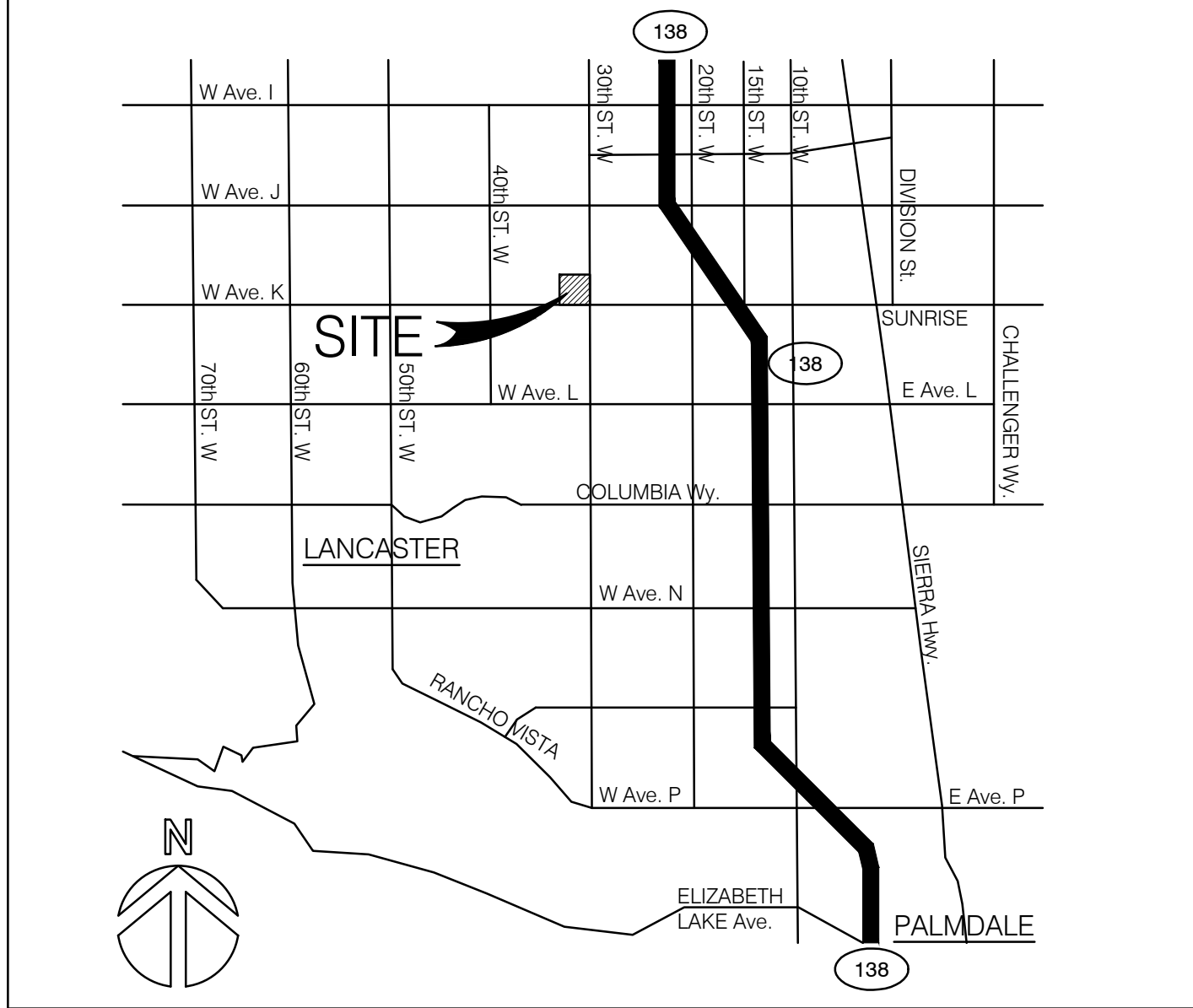


ANTELOPE VALLEY COMMUNITY COLLEGE  
 3001 WEST AVENUE K, LANCASTER, CA 93539  
**CAMPUS RESTROOM  
 REMODEL - PHASE 1**

## ABBREVIATIONS

ABV	ABOVE	CPT	CARPET (ED)	DIAG	DIAGONAL	FGL	FIBERGLASS	GPL	GYPSUM LATH	LC	LIGHT CONTROL	OPQ	OPAQUE	RAD	RADIUS	SPEC	SPECIFICATION (S)	VNR	VENEER		
AFF	ABOVE FINISHED FLOOR	CSMT	CASEMENT	DIA	DIAMETER	FIN	FIELD NAILING	GPNL	GYPSUM PLASTER	LP	LIGHTPROOF	OPNG	OPENING	RL	RAILING	SQ	SQUARE	VFY	VERIFY		
ASC	ABOVE SUSPENDED CEILING	CIPC	CAST-IN-PLACE CONCRETE	DIM	DIMENSION	FIN	FINISH (ED)	GPTT	GYPSUM TILE	LW	LIGHTWEIGHT	OJ	OPEN WEB JOIST	RWC	RAINWATER CONDUCTOR	SF	SQUARE FEET	VRM	VERMICULITE		
ACPL	ACCESS PANEL	CF	CAST-IN-PLACE CONCRETE	DISP	DISPENSER	FF	FLOOR FINISH	HLD	HARDWARE	LWS	LIGHTWEIGHT CONCRETE	OF	OFFICE	RFL	REFLECTOR	SS	STAINLESS STEEL	VERT	VERTICAL		
AP	ACCESS PANEL	CST	CAST STONE	DISP	DISPENSER	FO	FINISH GRADE	HBD	HARDBOARD	LMS	LIMESTONE	OPP	OPPOSITE	RFL	REFLECT (ED), (IVE), (OR)	STD	STANDARD	VG	VERTICAL GRAIN		
ACPL	ACOUSTICAL PLASTER	CB	CATCH BASIN	DR	DOOR	FG	FINISH GRADE	HDWR	HARDWARE	LTL	LIME TALL	OPH	OPPOSITE HAND	REFR	REFRIGERATOR	STA	STATION	VEST	VESTIBULE		
ACT	ACOUSTICAL TILE	CLS	CEILING	DBL	DOUBLE	FRK	FIRE BRICK	HWD	HARDWOOD	LL	LIME LOAD	OPF	OPPOSITE SURFACE	REG	REGISTER	STL	STEEL	VIN	VINYL		
ACR	ACRYLIC PLASTIC	CH	CEILING HEIGHT	DA	DOUBLE ACTING	FE	FIRE EXTINGUISHER	HDR	HEADER	LVR	LOUVER	OZ	OUNCE	REIN	REINFORCED	STOR	STORAGE	VCT	VINYL COMPOSITION TILE		
ADD	ADDENDUM	CEM	CEMENT PLASTER (PORTLAND)	DTS	DOVETAIL ANCHOR	FEC	FIRE EXTINGUISHER CABINET	HJT	HEAD JOINT	OD	OUTSIDE DIAMETER	OH	OVERHEAD	RCP	REINFORCED CONCRETE PIPE	SD	STORM DRAIN	VB	VINYL BASE		
ADJ	ADJACENT	CP	CENTRAL	DN	DOWN	FC	FIRE HOSE CABINET	HVS	HEATING	OHWS	OVAL HEAD WOOD SCREW	OHWS	OVAL HEAD WOOD SCREW	REQ	REQUIRED	STR	STRUCTURAL	VF	VINYL FABRIC		
ADJ	ADJUSTABLE	Q	CENTERLINE	DN	DOWN	FHS	FIRE HOSE STATION	HVAC	HEATING VENTILATING & AIR CONDITIONING	MB	MACHINE BOLT	OH	OVERHEAD	REQ	REQUIRED	SA	SUPPLY AIR	VT	VINYL TILE		
AGGR	AGGREGATE	CM	CENTRIMETER	DS	DOWNSPOUT	FH	FIRE HYDRANT	HTG	HEATING	MI	MALLEABLE IRON	OH	OVERHEAD	RESIL	RESILIENT	SUSP	SUSPENDED	WSCT	WAINSCOT		
A/C	AIR CONDITIONING	CER	CERAMIC	DRBD	DRAIN BOARD	FL	FIREPLACE	HD	HEAD	MH	MANHOLE	OH	OVERHEAD	RET	RETAINING	SVM	SYMMETRY / SYMMETRIC	WTW	WALL TO WALL		
ALT	ALTERNATE	CMT	CERAMIC MOSAIC TILE	DT	DRAIN TILE	FP	FIREPROOF	HT	HEIGHT	MFR	MANUFACTURE (R)	OH	OVERHEAD	RIA	RETURN AIR	SVS	SYMMETRY / SYMMETRIC	WR	WASTE RECEPTACLE		
ALUM	ALUMINUM	CT	CHALKBOARD	DWR	DRAWER	FR	FIRE-RESISTANT COATING	HX	HIGH	MRB	MARBLE	OH	OVERHEAD	RVS	REVERSE (SIDE)	SVN	SYNTHETIC	WH	WALL HUNG		
ANC	ANCHOR (AGE)	CKBD	CHALKBOARD	DWG	DRAWING	FRT	FIRE-RETARDANT	H	HIGH	MAS	MASONRY	OH	OVERHEAD	REV	REVISION (S) / REVISED	SVS	SYMMETRY / SYMMETRIC	WR	WASTE RECEPTACLE		
AB	ANCHOR BOLT	CHAM	CHAMFER	DF	DRINKING FOUNTAIN / FINISH SYSTEM	FL	FLOOR	HD	HEAD	MFR	MANUFACTURE (R)	OH	OVERHEAD	RH	RIGHT HAND	SVS	SYMMETRY / SYMMETRIC	WC	WATER CLOSET		
ANOD	ANGLE	CH	CHANNEL	DW	DUMBWATER	FL	FLOOR	HD	HEAD	MFR	MANUFACTURE (R)	OH	OVERHEAD	RH	RIGHT HAND	SVS	SYMMETRY / SYMMETRIC	WC	WATER CLOSET		
APPROX	APPROXIMATE	CIR	CIRCLE	EWC	ELECTRIC WATER COOLER	FL	FLOOR	HD	HEAD	MFR	MANUFACTURE (R)	OH	OVERHEAD	RH	RIGHT HAND	SVS	SYMMETRY / SYMMETRIC	WC	WATER CLOSET		
ARCH	ARCHITECT (URAL)	CIRC	CIRCUMFERENCE	EA	EACH	FL	FLOOR	HD	HEAD	MFR	MANUFACTURE (R)	OH	OVERHEAD	RH	RIGHT HAND	SVS	SYMMETRY / SYMMETRIC	WC	WATER CLOSET		
AD	AREA DRAIN	CO	CLEAN OUT	E.W.	ELECTRIC WATER COOLER	FL	FLOOR	HD	HEAD	MFR	MANUFACTURE (R)	OH	OVERHEAD	RH	RIGHT HAND	SVS	SYMMETRY / SYMMETRIC	WC	WATER CLOSET		
ASB	ASBESTOS	CLR	CLEAR	E	EAST	FLR	FLOOR (ING)	HR	HOUR	MBR	MEMBER	PAR	PARALLEL	RFG	ROUGH	RG	ROUGH GRADE	THR	THRESHOLD		
ASPH	ASPHALT	CLO	CLOSET	EFS	EXTERIOR INSULATION	FLCO	FLOOR CLEAN OUT	HW	HOT WATER HEATER	MFB	MEMBRANE	PAR	PARALLEL	RFM	ROUGH	RM	ROOM	THK	THICK (NESS)		
AC	ASPHALT CONCRETE	CLS	CLOSURE	ENCL	ELECTRICAL PANELBOARD	FD	FLOOR DRAIN	HW	HOT WATER HEATER	MFB	MEMBRANE	PAR	PARALLEL	RFM	ROUGH	RM	ROOM	THK	THICK (NESS)		
AT	ASPHALT TILE	COL	COLUMN	ELEC	ELECTRIC (AL)	FL	FLOOR PLATE	INCIN	INCINERATOR	MFD	METAL FLOOR DECKING	PTN	PARTITION	RG	ROUGH	RM	ROOM	THK	THICK (NESS)		
ASSY	ASSEMBLY	COMB	COMBINATION	EWC	ELECTRIC WATER COOLER	FL	FLOOR	INCIN	INCINERATOR	MFD	METAL FLOOR DECKING	PTN	PARTITION	RG	ROUGH	RM	ROOM	THK	THICK (NESS)		
AT	AUDIO VISUAL (CABINET)	COMP	COMPARTMENT	ELEV	ELEVATOR / ELEVATION	FJ	FOOT OR FEET	INSUL	INSULATION	MTHR	METAL THRESHOLD	PERF	PERFORATE (D)	PERM	PERPENDICULAR	RBL	RUBBER	TAB	TOP AND BOTTOM		
AUTO	AUTOMATIC	COMPO	COMPOSITION / COMPOSITE	EMER	EMERGENCY	FT	FOOT OR FEET	INSUL	INSULATION	MTHR	METAL THRESHOLD	PERF	PERFORATE (D)	PERM	PERPENDICULAR	RBL	RUBBER	TAB	TOP AND BOTTOM		
BP	BACK PLASTER (ED)	CMU	CONCRETE MASONRY UNIT	EQUIP	EQUIPMENT	FRM	FRAME (D), (ING)	INT	INTERIOR	MKN	MILLWORK	PLAS	PLASTIC	SCH	SCHEDULE	SCN	SCREEN	SEAL	SEALANT		
BSMT	BASEMENT	ESC	EGRESS	EQ	EQUAL	FRG	FORGED	INT	INTERIOR	MKN	MILLWORK	PLAS	PLASTIC	SCH	SCHEDULE	SCN	SCREEN	SEAL	SEALANT		
BSM	BASEMENT	ESC	EGRESS	EQ	EQUAL	FRG	FORGED	INT	INTERIOR	MKN	MILLWORK	PLAS	PLASTIC	SCH	SCHEDULE	SCN	SCREEN	SEAL	SEALANT		
BRG	BEARING	CONST	CONSTRUCTION	EST	ESTIMATE	FRA	FRESH AIR	INV	INVERT	MOD	MODULAR	PL	PLATE	SNT	SHEET	SHT	SHEET	SHO	SHOWER		
BRP	BEARING PLATE	CONCT	CONTINUOUS/CONTINUE	EXCA	EXCAVATE	FS	FULL SIZE	IE	INVERT ELEVATION	MLD	MOLDING, MOULDING	PG	PLYWOOD	PT	POINT OF CONNECTION	PVC	POLYVINYL CHLORIDE	SND	SANITARY NAPKIN DISPENSER		
BDJ	BELOW JOINT	CONTR	CONTRACT (OR)	EQH	EQUAL	FRG	FORGED	INT	INTERIOR	MKN	MILLWORK	PLAS	PLASTIC	SCH	SCHEDULE	SCN	SCREEN	SEAL	SEALANT		
BEL	BELOW	CLL	CONTRACT LIMIT LINE	(E)	EXISTING	FURR	FURRING	IPN	IRON PIPE SIZE	JAN	JANITOR	JANITORS CLOSET	JF	JOINT FILLER	NRCA	NATIONAL ROOFING CONTRACTORS ASSN.	PCF	POUNDS PER CUBIC FOOT	PPF	PRE-FINISHED	
SET	BETWEEN	CJ	CONTROL JOINT	EMXP	EXPANDED METAL PLATE	FUT	FUTURE	JAN	JANITOR	JANITORS CLOSET	JF	JOINT FILLER	NRCA	NATIONAL ROOFING CONTRACTORS ASSN.	PCF	POUNDS PER CUBIC FOOT	PPF	PRE-FINISHED	SHO	SHOWER	
BVL	BEVELLED	CPFR	COPPER	EXBLT	EXPANSION BOLT	GA	GAGE / GAUGE	JC	JOIST	NL	NATURAL	NAT	NATURAL	PC	PRE-CAST	PSF	POUNDS PER SQUARE FOOT	PRE-CAST CONCRETE	PRE-FABRICATE (D)	PRE-FINISHED	
BTUM	BITUMINOUS	CG	CORNER GUARD	EXBLT	EXPANSION BOLT	GA	GAGE / GAUGE	JC	JOIST	NL	NATURAL	NAT	NATURAL	PC	PRE-CAST	PSF	POUNDS PER SQUARE FOOT	PRE-CAST CONCRETE	PRE-FABRICATE (D)	PRE-FINISHED	
BLKG	BLOCKING	CPRR	CORRUGATED	EXBLT	EXPANSION BOLT	GA	GAGE / GAUGE	JC	JOIST	NL	NATURAL	NAT	NATURAL	PC	PRE-CAST	PSF	POUNDS PER SQUARE FOOT	PRE-CAST CONCRETE	PRE-FABRICATE (D)	PRE-FINISHED	
BS	BOTH SIDES	CTS	COUNTER SINK	EXT	EXTERIOR	GSKT	GASKET	KCP	KEENE'S CEMENT PLASTER	(N)	NEW	NIC	NORTH	PN	PRE-FINISHED	SHO	SHOWER	SHO	SHOWER	SHO	SHOWER
BS	BOTH SIDES	CTS	COUNTER SINK	EXT	EXTERIOR	GSKT	GASKET	KCP	KEENE'S CEMENT PLASTER	(N)	NEW	NIC	NORTH	PN	PRE-FINISHED	SHO	SHOWER	SHO	SHOWER	SHO	SHOWER
BW	BOTH WAYS	CRG	CROSS GRAIN	EKS	EXTRA STRONG	GC	GLASS BLOCK	KPL	KICKPLATE	(N)	NEW	NIC	NORTH	PN	PRE-FINISHED	SHO	SHOWER	SHO	SHOWER	SHO	SHOWER
BTM	BOTTOM	CS	CLOSE	EWS	EYE WASH/SAFETY SHOWER	COMBO	COMBO	GCMU	GLAZED CONCRETE MASONRY UNITS	GLAZED STRUCTURAL TILE	GLB	GLAZED	LAB	LABORATORY	GRN	GRANITE	LAD	LAD	LAM	LAMINATE (D)	
BN	BOUNDARY NAILING	CYD	CUBIC YARD	CW	CURTAIN WALL	FOB	FACE OF BRICK	GST	GLAZED STRUCTURAL TILE	GLB	GLAZED	LAB	LABORATORY	GRN	GRANITE	LAD	LAD	LAM	LAMINATE (D)	LAV	LAVATORY
BRK	BRICK	CW	CURTAIN WALL	FOB	FACE OF BRICK	GST	GLAZED STRUCTURAL TILE	GLB	GLAZED	LAB	LABORATORY	GRN	GRANITE	LAD	LAD	LAM	LAMINATE (D)	LAV	LAVATORY	LH	LEFT HAND
BRZ	BRONZE	DPR	DAMPER	FDC	FACE OF CONCRETE	GB	GRAB BAR	LBL	LABEL	LAB	LABORATORY	GRN	GRANITE	LAD	LAD	LAM	LAMINATE (D)	LAV	LAVATORY	LH	LEFT HAND
BLDG	BUILDING	DPR	DAMPER	FDC	FACE OF CONCRETE	GB	GRAB BAR	LBL	LABEL	LAB	LABORATORY	GRN	GRANITE	LAD	LAD	LAM	LAMINATE (D)	LAV	LAVATORY	LH	LEFT HAND
BJR	BUILT UP ROOFING	DL	DAMP PROOFING	FOCMU	FACE OF CONCRETE	GB	GRAB BAR	LBL	LABEL	LAB	LABORATORY	GRN	GRANITE	LAD	LAD	LAM	LAMINATE (D)	LAV	LAVATORY	LH	LEFT HAND
BSB	BULLETIN BOARD	DL	DAMP PROOFING	FOCMU	FACE OF CONCRETE	GB	GRAB BAR	LBL	LABEL	LAB	LABORATORY	GRN	GRANITE	LAD	LAD	LAM	LAMINATE (D)	LAV	LAVATORY	LH	LEFT HAND
CAB	CABINET	DEM	DEMOLISH / DEMOLITION	FOM	FACE OF MASONRY	CF	CONCRETE FINISH	GND	GROUND	LAM	LAMINATE (D)	LAV	LAVATORY	LH	LEFT HAND	L	LENGTH	L	LENGTH	L	LENGTH
CAD	CADMIUM	DMT	DEMOUNTABLE	CF	CONCRETE FINISH	GND	GROUND	LAM	LAMINATE (D)	LAV	LAVATORY	LH	LEFT HAND	L	LENGTH	L	LENGTH	L	LENGTH	L	LENGTH
CALCS	CALCULATIONS	DEF	DEPRESSED	FAS	FASTEN (ER)	FN	FENCE	GYP	GYPSUM	LH	LEFT HAND	L	LENGTH	L	LENGTH	L	LENGTH	L	LENGTH	L	LENGTH
CK	CAULK (ING) / CAULK (ING)	DEPT	DEPARTMENT	DTL	DETAIL	FBD	FIBERBOARD	GPDW	GYPSUM DRYWALL	LT	LIGHT	L	LENGTH	L	LENGTH	L	LENGTH	L	LENGTH	L	LENGTH

## VICINITY MAP



## PROJECT DESCRIPTION

Renovation of (6) restrooms located in three buildings, SCT SSV & LS1 to bring them up to current accessible codes. Replace finishes and partitions, move plumbing fixture locations.

## GENERAL NOTES

- ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING, SHORING, SAFETY BARRIERS, COVERS, AND ANY OTHER SAFETY PRECAUTION REQUIRED TO PROTECT THE WORK AND THE PUBLIC UNTIL IT IS IN ITS COMPLETED FORM.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
- ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
- (E) INDICATES EXISTING CONSTRUCTION (N) INDICATES NEW CONSTRUCTION
- ALL NEW WORK SHALL MATCH EXISTING IN KEEPING WITH GOOD CONSTRUCTION PRACTICE. IT IS THE INTENT OF THESE DOCUMENTS THAT THE PORTION OF THE SURFACE WHICH HAS BEEN INSTALLED, REPAIRED OR REPLACED, SHALL MATCH THE EXISTING ADJACENT SURFACES, AND THAT THE NEW WORK WILL NOT BE DISCERNIBLE FROM THE EXISTING.
- BEFORE DIGGING, THE CONTRACTOR WILL BE REQUIRED TO MARK AND LOCATE ALL UTILITIES THAT ARE AFFECTED BY THE WORK. THIS INCLUDES WATER, SEWER, STORM DRAIN, GAS, ELECTRICAL POWER, AND VOICE/DATA COMMUNICATIONS. THE INFORMATION SHOWN HAS BEEN COMPILED FROM AVAILABLE DRAWING INFORMATION BUT IS NOT GUARANTEED TO BE ACCURATE.
- MAINTAIN EXISTING, RELOCATE, OR PROVIDE NEW ACCESS AS REQUIRED FOR ALL CLEANOUTS, JUNCTION BOXES, ACCESS OPENINGS, ETC.
- ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS AND C.B.C., 2016 EDITION
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL SITE CONDITIONS AGAINST WHAT IS SHOWN ON THE DRAWINGS. ANY ITEMS UNINTENTIONALLY OMITTED FROM THE DRAWINGS DO NOT ALLEVIATE THE CONTRACTOR FROM PERFORMING HIS WORK TO COMPLETION IN COMPLIANCE TO THE CONTRACT.
- COORDINATE SHUT DOWN OF UTILITIES WITH SCHOOL MAINTENANCE & OPERATIONS MINIMUM OF SEVEN DAYS PRIOR TO SHUTDOWN.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA REPRESENTATIVE
- A 'DSA CERTIFIED' INSPECTOR WITH CLASS 3 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO RECONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS. A CHANGE ORDER OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH WORK. REFERENCE SECTION 4-317 (c), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R.)

## APPLICABLE CODES

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

PART 1	2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2016 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R.
PART 3	2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.
PART 4	2016 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R.
PART 5	2016 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R.
PART 6	2016 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 8	2016 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, TITLE 24 C.C.R.
PART 9	2016 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.
PART 12	2016 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

2016 TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

LIST OF FEDERAL CODES AND STANDARDS

AMERICAN WITH DISABILITIES ACT (ADA), TITLE II  
UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) 28 CFR 35.151(c) OR ADA STANDARDS FOR ACCESSIBLE DESIGN (ADAAG) AS PUBLISHED IN APPENDIX A OF 28 CFR PART 36

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

NFPA 13	- AUTOMATIC SPRINKLER SYSTEMS,	2016 EDITION
NFPA 14	- STANDPIPES SYSTEMS,	2013 EDITION
NFPA 17	- DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	- WET CHEMICAL SYSTEMS,	2016 EDITION
NFPA 20	- STATIONARY PUMPS,	2016 EDITION
NFPA 24	- PRIVATE FIRE MAINS,	2016 EDITION
NFPA 72	- PART OF NFPA 13 CHAPTER 5 - NATIONAL FIRE ALARM CODE (AS AMENDED) (SEE UL STANDARD 1971 FOR 'VISUAL DEVICES')	2016 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC (SFM) 3004-1  
ASME A17.1 - 2004 FOR SECTIONS 7-3004 PART 7, CBC  
ASME A18.1 - 2003 FOR SECTION 7-3004 PART 7, CBC  
NFPA 253 - CRITICAL RADIANT FLOW OF FLOOR COVERING SYSTEMS,  
NFPA 2001 - CLEAN AGENT FIRE EXTINGUISHING SYSTEMS,  
2015 EDITION

NATIONAL REFERENCE STANDARDS:

ASD (AISC) MANUAL OF STEEL CONSTRUCTION, 14TH EDITION,  
2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION,  
ACO-318-99 CODE & COMMENTARY

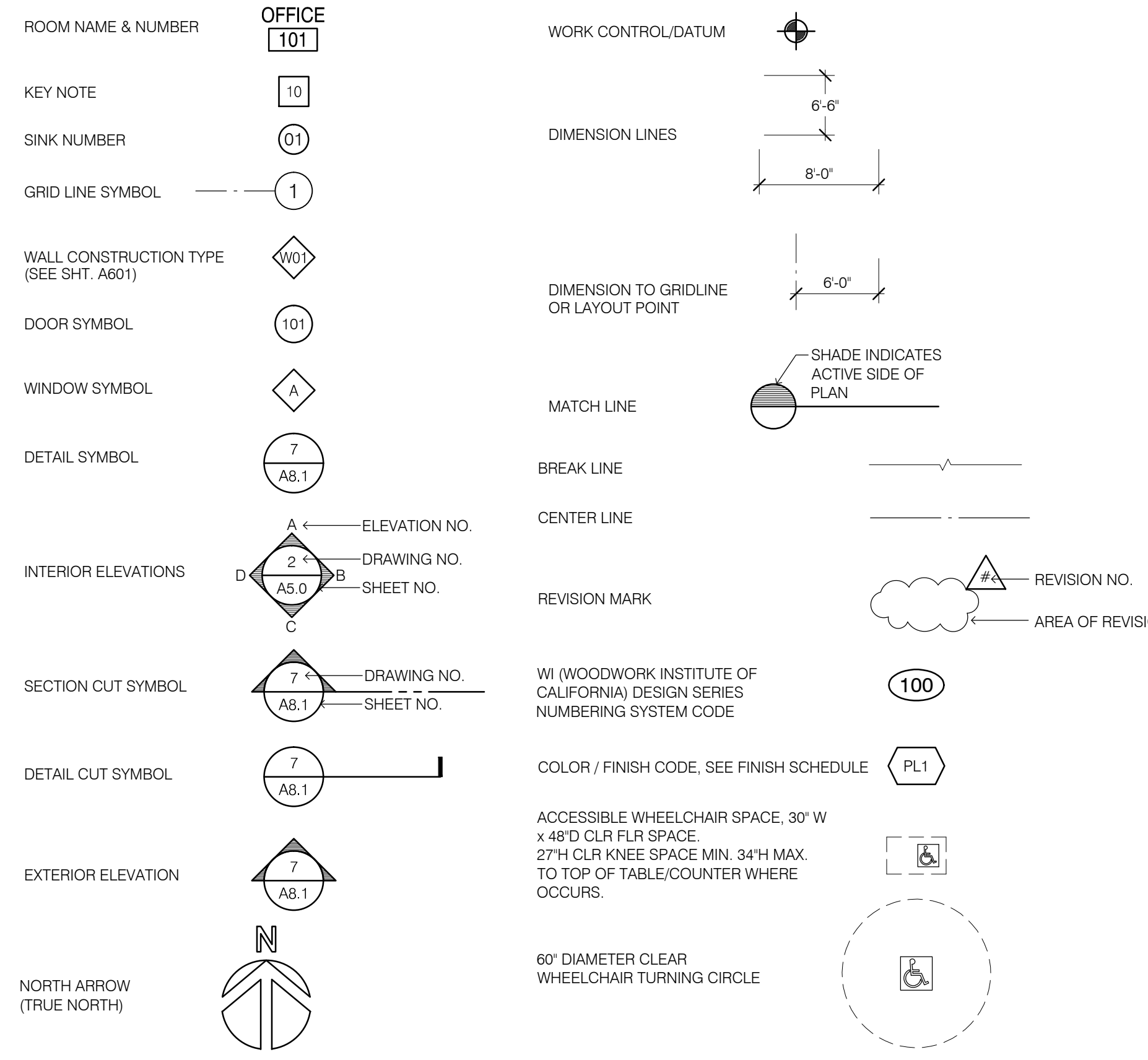
STATE BUILDING CODE  
(Part 1, Title 24, C.C.R.)

Due to the difficulty of anticipating every unsatisfactory condition that might be found in existing construction where alteration, rehabilitation or reconstruction work is proposed, the following clause or one of similar meaning shall be included in all specifications for alteration, rehabilitation or reconstruction projects: The intent of these drawings and specification is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, California Code of Regulations. Should any existing conditions such as deterioration or non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a change order, or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by the Division of State Architect before proceeding with the work

Chapter 4 Part 1, Title 24, C.C.R., Administrative Requirements (Partial Listing Only)

- A copy of Parts 1 and 2, Title 24, C.C.R. shall be kept on the job site at all times.
- All CCDs and addenda to be signed by the Architect and the Owner and approved by DSA. CCDs are not valid until approved by DSA per Section 4-338, Part 1, Title 24.
- All tests to conform to the requirements of Section 4-338, Part 1, Title 24, and approved T & I sheet.
- Tests of materials and testing laboratory shall be in accordance with 4-335 of Part 1, Title 24 and the District shall employ and pay the laboratory. Costs of re-test may be back charged to the contractor.
- DSA shall be notified at the start of construction and prior to the placement of concrete per Section 4-331, Part 1, Title 24.
- Inspector shall be approved by DSA. Inspection shall be in accordance with Section 4-333(b). The duty of the Inspector shall be in accordance with Section 4-342, Part 1, Title 24.
- Supervision of construction by DSA shall be in accordance with Section 4-334, Part 1, Title 24.
- Contractor, Inspector, Architect, and Engineers shall submit verified reports (Form SSS-8) in accordance with Section 4-336 and 4-343, Part 1, Title 24.
- The Architect and Structural Engineer shall perform their duties in accordance with Section 4-333(a) and 4-341, Part 1, Title 24.
- The Contractor shall perform his duties in accordance with Section 4-343, Part 1, Title 24.
- The intent of the drawings and specifications is to reconstruct the school building in accordance with Title 24, C.C.R. Should any conditions develop not covered by the contract documents wherein the finished work will not comply with said Title 24, C.C.R., a change order detailing and specifying the required work shall be submitted to and approved by the Office of Regulation Services before proceeding with the work.

## SYMBOL LEGEND



**PATH OF TRAVEL NOTE  
 PER SECTION 11B-202.4:**

PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS IS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" DEVELED AT 1:2 MAX. SLOPE. EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48 INCHES WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE NOTED. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11338.6). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-302.4.

FOR GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAYS AT PATH OF TRAVEL, GRID OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" MAX. IN THE DIRECTION OF TRAFFIC FLOW. IF SUCH CONDITION OCCURS, PROVIDE MANUFACTURER CUTSHEETS OF GRATE PROVIDED.

GATES IN PATH OF TRAVEL MUST COMPLY WITH EXIT DOOR REQUIREMENTS. (SEE SECTION 11B-206.5 & 11B-404.1) PROVIDE LEVER HARDWARE AND KICKPLATE. FIRE AND LIFE SAFETY MAY REQUIRE PANIC HARDWARE FOR EMERGENCY EXITING EVEN WITH THE SIGN. COORDINATE WITH FIRE AND LIFE SAFETY REQUIREMENTS.

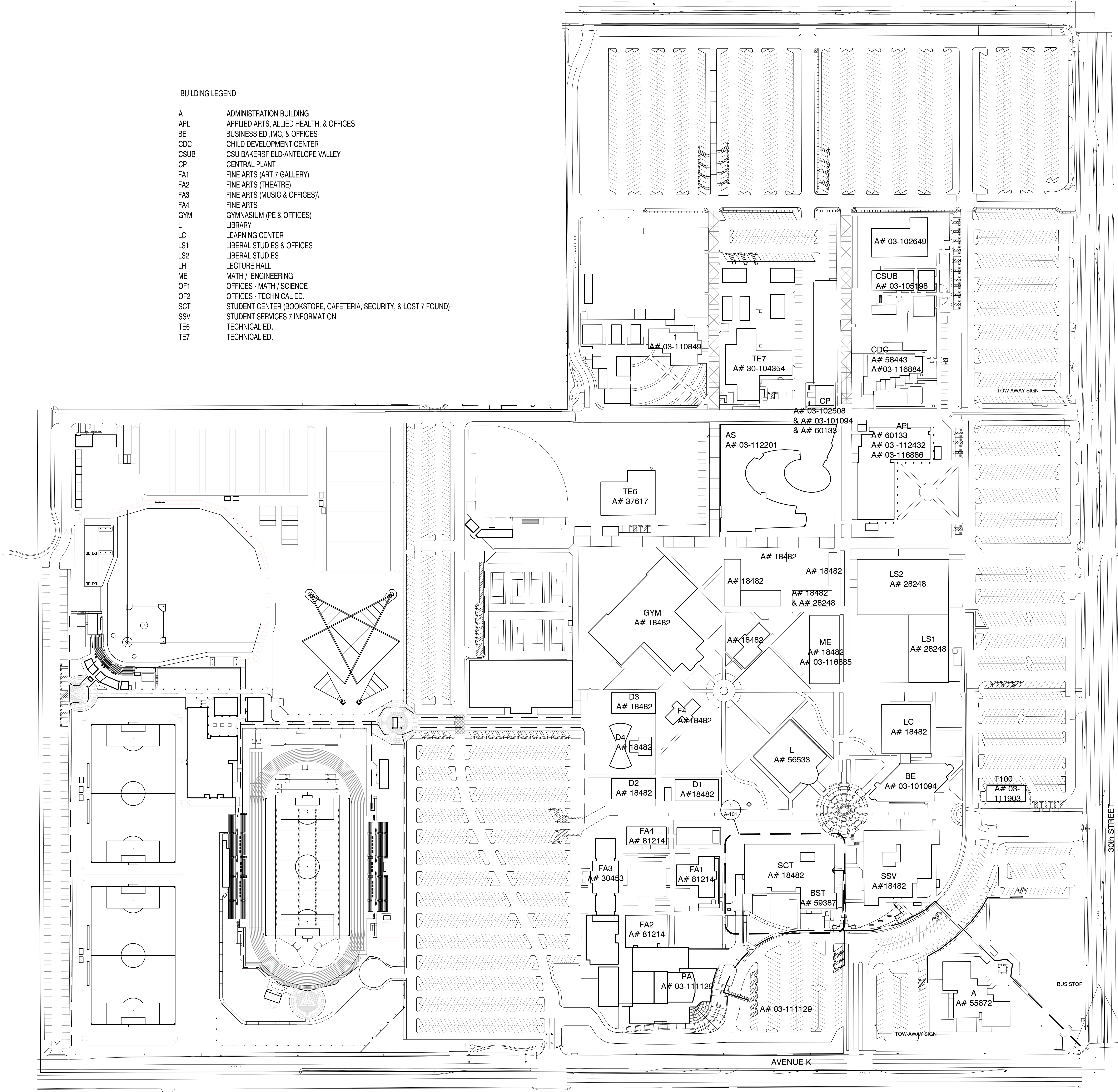
--- ACCESSIBLE PATH OF TRAVEL

**BUILDING LEGEND**

- A ADMINISTRATION BUILDING
- AS APPLIED SCIENCES BUILDING
- APL APPLIED ARTS, ALLIED HEALTH, & OFFICES
- BE BUSINESS ED., I.M.C. & OFFICES
- BST BOOKSTORE EXPANSION
- CDC CHILD DEVELOPMENT CENTER
- CSUB CSU BAKERSFIELD-ANTELOPE VALLEY
- D1 BIOLOGY
- D2 PHYSICS
- D3 CHEMISTRY
- D4 LECTURE HALL
- F4 ACADEMIC ADVANCEMENT
- FA1 FINE ARTS (ART 7 GALLERY)
- FA2 FINE ARTS (THEATRE)
- FA3 FINE ARTS (MUSIC & OFFICES)
- FA4 FINE ARTS
- FS FACILITIES SERVICES
- GH-4 GREENHOUSES
- GYM GYMNASIUM (PE & OFFICES)
- L LIBRARY
- LC LEARNING CENTER
- LS1 LIBERAL STUDIES & OFFICES
- LS2 LIBERAL STUDIES
- LH LECTURE HALL
- ME MATH / ENGINEERING
- OF1 OFFICES - MATH / SCIENCE
- OF2 OFFICES - TECHNICAL ED.
- OF3 OFFICES - LANGUAGE ARTS & SOCIAL SCIENCES
- PA PERFORMING ARTS THEATRE BUILDING
- SA SOAR HIGH SCHOOL ADMINISTRATION
- S1-9 SOAR HIGH SCHOOL
- SCT STUDENT CENTER (BOOKSTORE, CAFETERIA, SECURITY, & LOST 7 FOUND)
- SR SOAR HIGH SCHOOL RESTROOMS
- SS1 ELECTRICAL SUBSTATION
- SSV STUDENT SERVICES 7 INFORMATION
- TE1 TECHNICAL ED - ELECTRONICS
- TE2 TECHNICAL ED WELDING/FIRE TECHNOLOGY
- TE3 TECHNICAL ED - AGRICULTURE LAB
- TE4 EQUIPMENT BUILDING
- TE6 TECHNICAL ED - AUTOMOTIVE
- TE7 TECHNICAL ED - TECHNOLOGY
- TE8 TECHNICAL ED - AUTO BODY

**LEGEND**

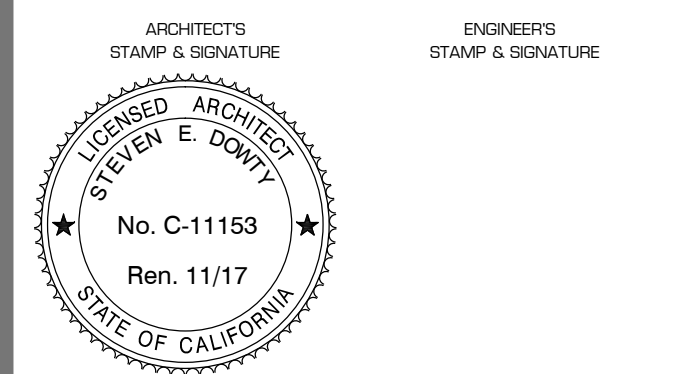
--- ACCESSIBLE PATH OF TRAVEL (POT)



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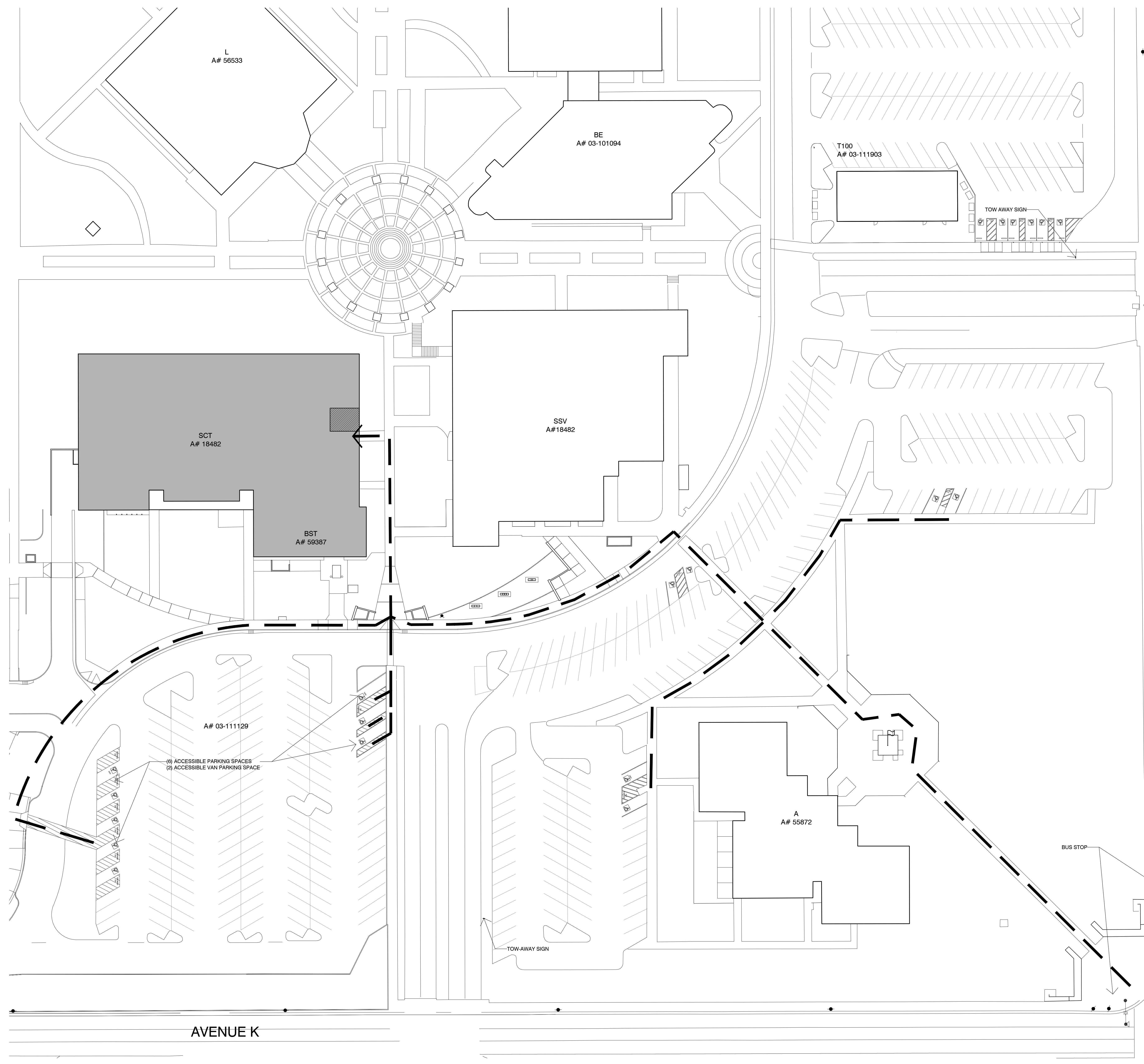
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<table border="1"> <thead> <tr> <th>REVISION</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REVISION	DESCRIPTION	DATE	BY	1				
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SHEET: CAMPUS PLAN  
 TITLE:

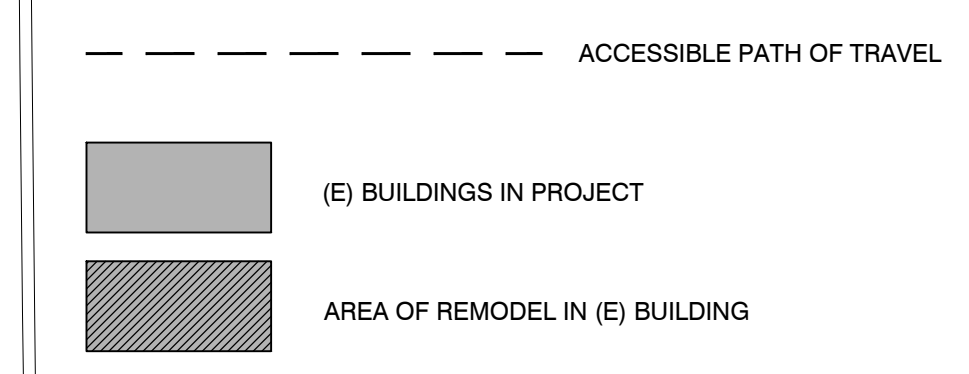


**PATH OF TRAVEL NOTE  
 PER SECTION 1133B.7:**

PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS IS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" MAX. SLOPE. EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48 INCHES WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE NOTED. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (1133B.6.6). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-202.4.

FOR GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAYS AT PATH OF TRAVEL, GRID/OPENINGS IN GRATINGS SHALL BE LIMITED TO 1 1/2" MAX. IN THE DIRECTION OF TRAFFIC FLOW. IF SUCH CONDITION OCCURS, PROVIDE MANUFACTURER CUTSHEETS OF GRATE PROVIDED.

GATES IN PATH OF TRAVEL MUST COMPLY WITH EXIT DOOR REQUIREMENTS. (SEE SECTION 11B-206.5 & 11B-404.1) PROVIDE LEVER HARDWARE AND KICKPLATE. FIRE AND LIFE SAFETY MAY REQUIRE PANIC HARDWARE FOR EMERGENCY EXITING EVEN WITH THE SIGN. COORDINATE WITH FIRE AND LIFE SAFETY REQUIREMENTS.



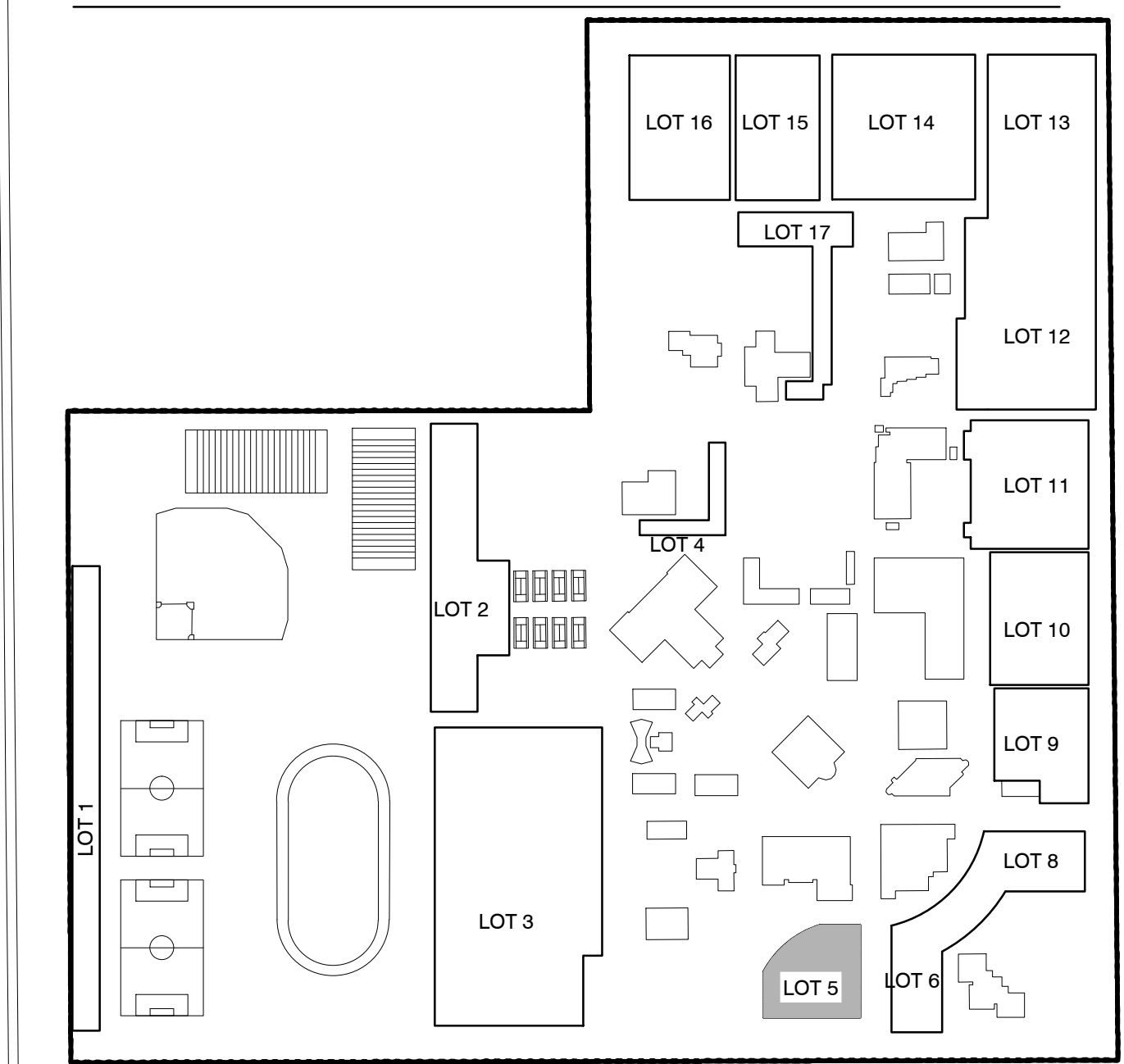
**DESIGN PROFESSIONAL IN GENERAL  
 RESPONSIBLE CHARGE STATEMENT:**

THE DRAWINGS SHEET DELINEATING PATH OF TRAVEL (POT) FOR A PROJECT THAT SHALL INCLUDE THE FOLLOWING STATEMENT: (PER DSA PR 15-01)

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT TO HAVE BEEN IDENTIFIED AND TO THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS. DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED IN VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THE SE CONSTRUCTION DOCUMENTS.

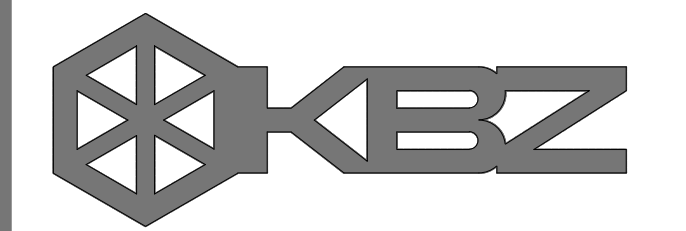
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCE, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF CONSTRUCTION CHANGE DOCUMENT.

**PARKING RATIO:**



**ACCESSIBLE PARKING COUNT PER TABLE 11B-208.2**

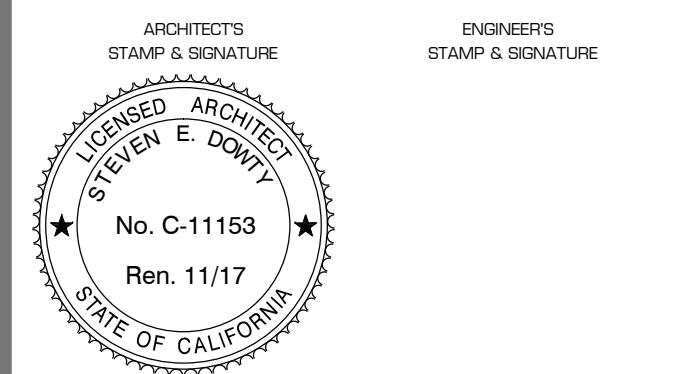
Lot #	# of Spaces	# of ACC Spaces Req.	# of ACC Provided
1	222	7	10+2 Vans
2	243	7	5+2 Vans
3	800	16	22+6 Vans
4	24	1	3+1 Van
5	142	5	6+2 Vans
6 + 8	191	6	5+1 Van
9	139	5	4+2 Vans
10	201	7	9+1 Van
11	186	6	6+2 Van
12 + 13	544	11	15+4 Vans
14	329	8	7+1 Van
17	116	5	6+2 Vans
15	193	6	7+1 Van
16	264	7	7+1 Van
<b>Total</b>	<b>3,594</b>	<b>97</b>	<b>112 + 28 Vans</b>



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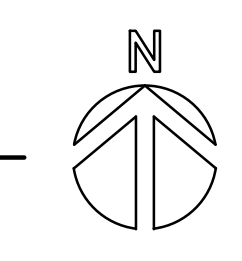


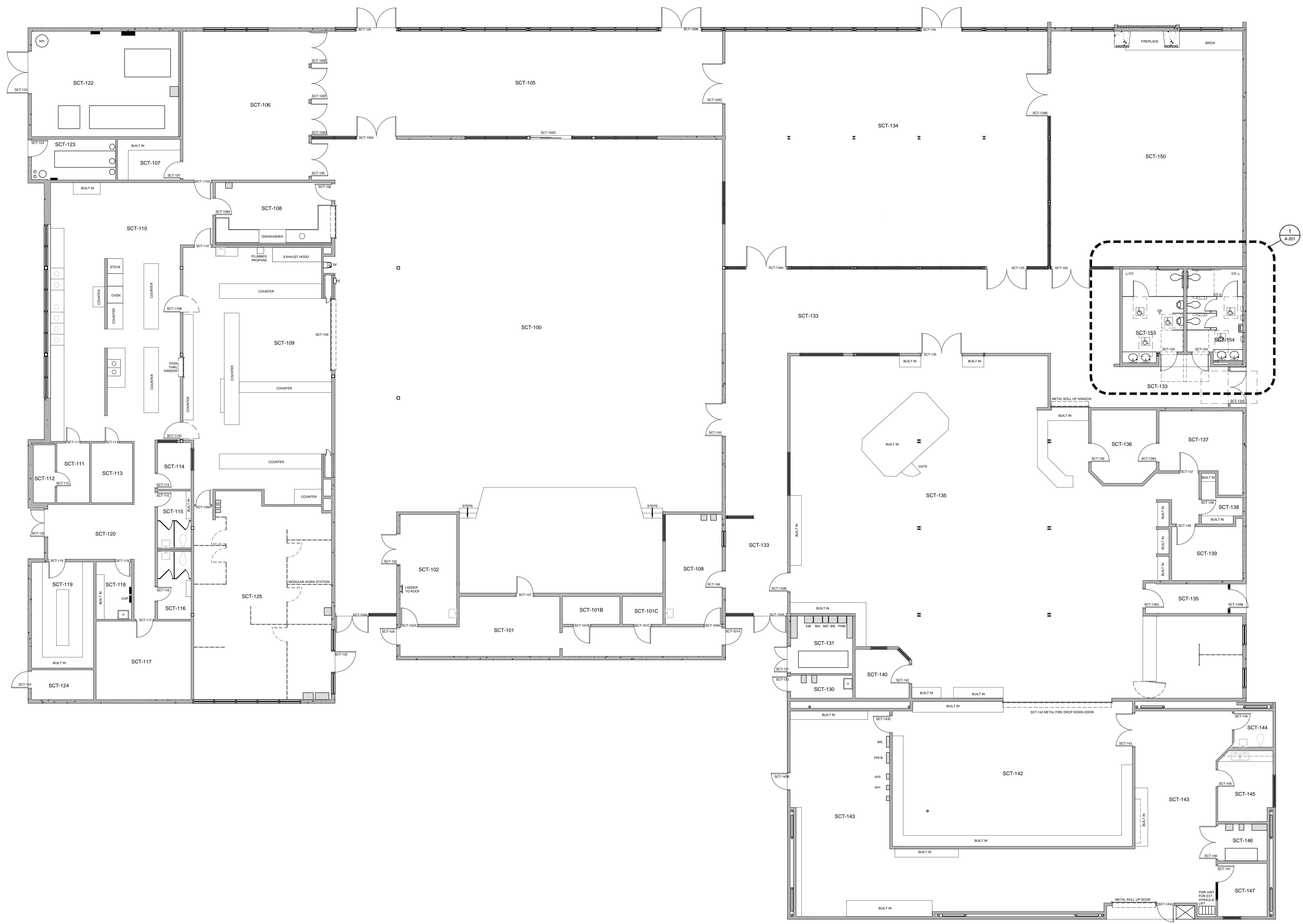
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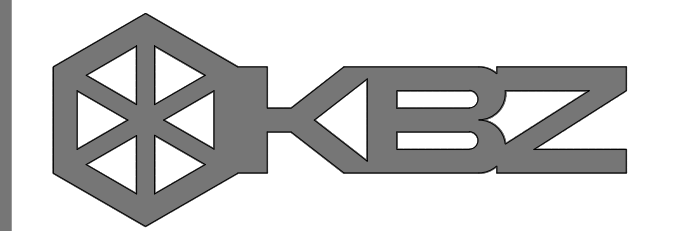
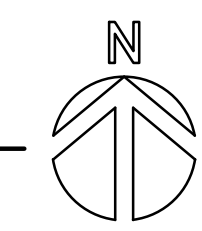
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SHEET PARTIAL SITE PLAN  
 TITLE





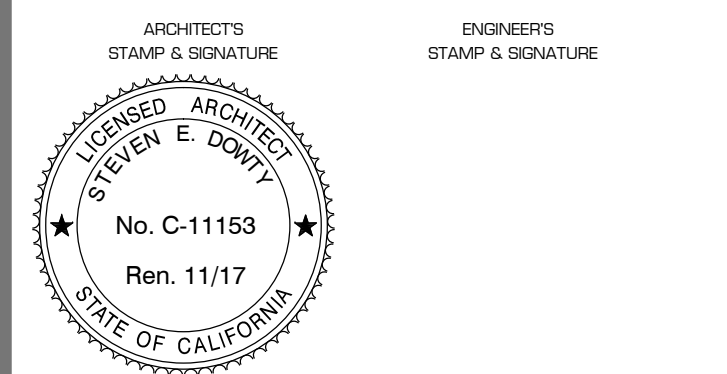
**1** SCT BUILDING FLOOR PLAN  
 SCALE : 1/8" = 1'-0"



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SHEET: EXISTING BUILDING FLOOR PLANS  
 TITLE:

- LEGEND :**
- (E) WALL TO REMAIN.
  - DEMO WALL.
  - NEW WALL.
  - DEMO LIGHT FIXTURE
  - NEW 3 1/2" x 48" LIGHT FIXTURE w/OCCUPANCY SENSOR
  - ☐ (E) AIR VENT
  - ☐ NEW EXHAUST VENTILATOR
  - Ⓢ DOOR TAG (SEE SCHEDULE SHEET A-801)

**DEMO FLOOR PLAN KEYNOTES:**

- 1 REMOVE PORTION OF (E) WALL AND CURB INDICATED, PATCH AND PREPARE FOR SPECIFIED FINISH PER SHEET A-401
- 2 NOT USED
- 3 REMOVE TOILET PARTITIONS, DOORS AND PARTITION MOUNTED ACCESSORIES
- 4 REMOVE GRAB BAR
- 5 REMOVE PLUMBING FIXTURE
- 6 REMOVE (E) MORTAR-SET FLOOR AND WALL TILE (VFY (E) HEIGHT OF TILE TO BE REMOVED), REMOVE (E) GYP BD OR (E) PLASTER ON WALLS UP TO TOP OF NEW WAINSCOT (VFY HEIGHT), PATCH AND PREPARE FOR SPECIFIED FINISH PER SHEET A-401
- 7 REMOVE SOAP DISPENSER
- 8 REMOVE TOWEL DISPENSER
- 9 REMOVE MIRROR
- 10 REMOVE DISPENSER UNIT
- 11 (E) ACCESS PANEL TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION
- 12 (E) FLOOR DRAIN TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION
- 13 REMOVE MTL PANEL, VFY CONDITION BEHIND PANEL, PATCH WALL w/ SPEC FINISH
- 14 REMOVE ABANDONED JUNCTION BOX, PATCH WALL AND PREPARE FOR SPECIFIED FINISH PER SHEET A-401
- 15 (E) CLEAN OUT TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION
- 16 (E) DOOR AND FRAME TO REMAIN AND BE REPAINTED WHERE NOTED
- 17 REMOVE ACCESS PANEL, REMOVE (2) GATE VALVES AND CAP (2) PLUMBING PIPES BEHIND PANEL, PATCH WALL w/ SPECIFIED FINISH.

**DEMO RCP KEYNOTES:**

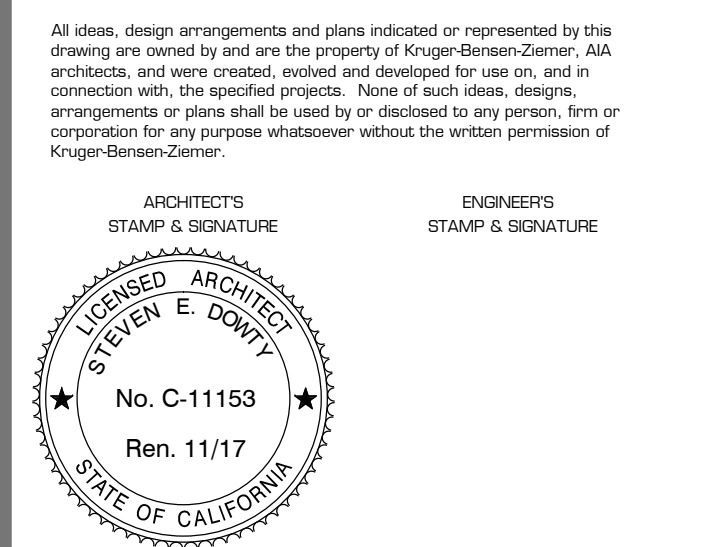
- 1 REMOVE LIGHT FIXTURE, JUNCTION BOX TO REMAIN FOR NEW LIGHTING
- 2 (E) SURFACE MOUNTED CONDUIT AND FIRE STROBE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION
- 3 (E) ACCESS PANEL TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION
- 4 NOT USED
- 5 NOT USED
- 6 NOT USED

**FLOOR PLAN KEYNOTES:**

- 1 (E) ACCESS PANEL, PAINTED TO MATCH P1
- 2 FLOOR TILE PER SHEET SHEET A-401
- 3 NOT USED
- 4 ACCESSIBLE COUNTER WITH 1 SINKS PER 8 (A-701) (A-701)
- 5 PROVIDE BACKING PER 8 (A-701)
- 6 NOT USED
- 7 (E) FLOOR DRAIN, ADJUST AS NEEDED TO ACCOMMODATE (N) FLOOR AND WALL FINISHES
- 8 (E) CLEAN OUT, ADJUST AS NEEDED TO ACCOMMODATE (N) FLOOR AND WALL FINISHES
- 9 (E) DOOR TO BE PAINTED P2, (E) FRAME TO BE PAINTED P3, REPAIR DOOR, BONDO AND FILL, (E) HOLES PRIOR TO PAINTING
- 10 TOILET PARTITION AND DOOR, PROVIDE BACKING PER 8 (A-701)
- 11 URINAL SCREEN, PROVIDE BACKING PER 8 (A-701)
- 12 COAT HOOK w/BUMPER MOUNTED ON PARTITION DOOR
- 13 FLOOR MOUNTED TOILET (E) AND (E)
- 14 WALL MOUNTED URINAL (E) AND (E) 8 (A-701) 8 (A-701)
- 15 48" MIN GRAB BAR, PROVIDE BACKING PER 8 (A-701)
- 16 36" MIN GRAB BAR, PROVIDE BACKING PER 8 (A-701)
- 17 SURFACE-MOUNTED MIRROR w/ S.S. FRAME
- 18 UNDER-COUNTER SOAP DISPENSER
- 19 ACCESSIBLE PAPER TOWEL DISPENSER
- 20 SEMI-RECESSED SANITARY NAPKIN DISPENSER
- 21 NOT USED
- 22 SURFACE-MOUNTED TWIN ROLL TOILET PAPER DISPENSER
- 23 SEMI-RECESSED TOILET PAPER DISPENSER
- 24 SURFACE-MOUNTED SEAT COVER DISPENSER
- 25 SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL UNIT
- 26 SEMI-RECESSED SANITARY NAPKIN DISPOSAL UNIT
- 27 (E) MECH REGISTER TO REMAIN

**RCP KEYNOTES:**

- 1 NEW LIGHT FIXTURE, MARK ARCHITECTURAL LIGHTING, "SLOT 4 LED", 3 1/2" x 3 1/2" x 48", 3500K SILVER POWDERCOAT, SURFACE MOUNTED, WIRED TO (E) JUNCTION BOX, PROVIDE OCCUPANCY SENSORS AND NEW SWITCH, PATCH AND PAINT GYP BD CEILING P1 PRIOR TO INSTALLING NEW FIXTURES
- 2 (E) SURFACE MOUNTED CONDUIT AND FIRE STROBE
- 3 NOT USED
- 4 (E) ACCESS PANEL PAINTED TO MATCH P1
- 5 NOT USED
- 6 NOT USED
- 7 PATCH CEILING WHERE WALLS MODIFIED, PAINT TO MATCH P1
- 8 UPBLAST CENTRIFUGAL EXHAUST VENTILATOR, SEE MECHANICAL STRUCTURAL AND 11 (A-701) 12 (A-701)



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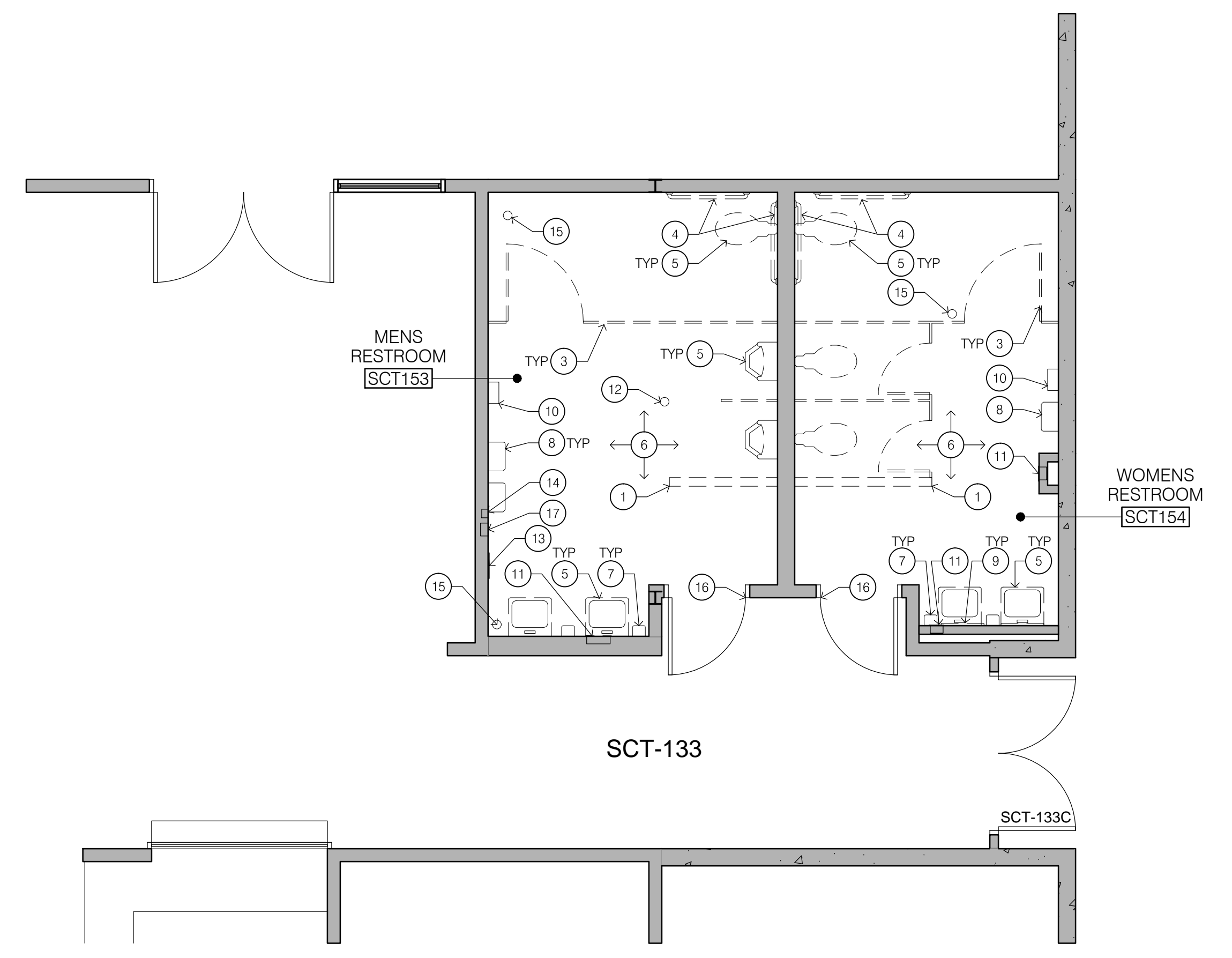
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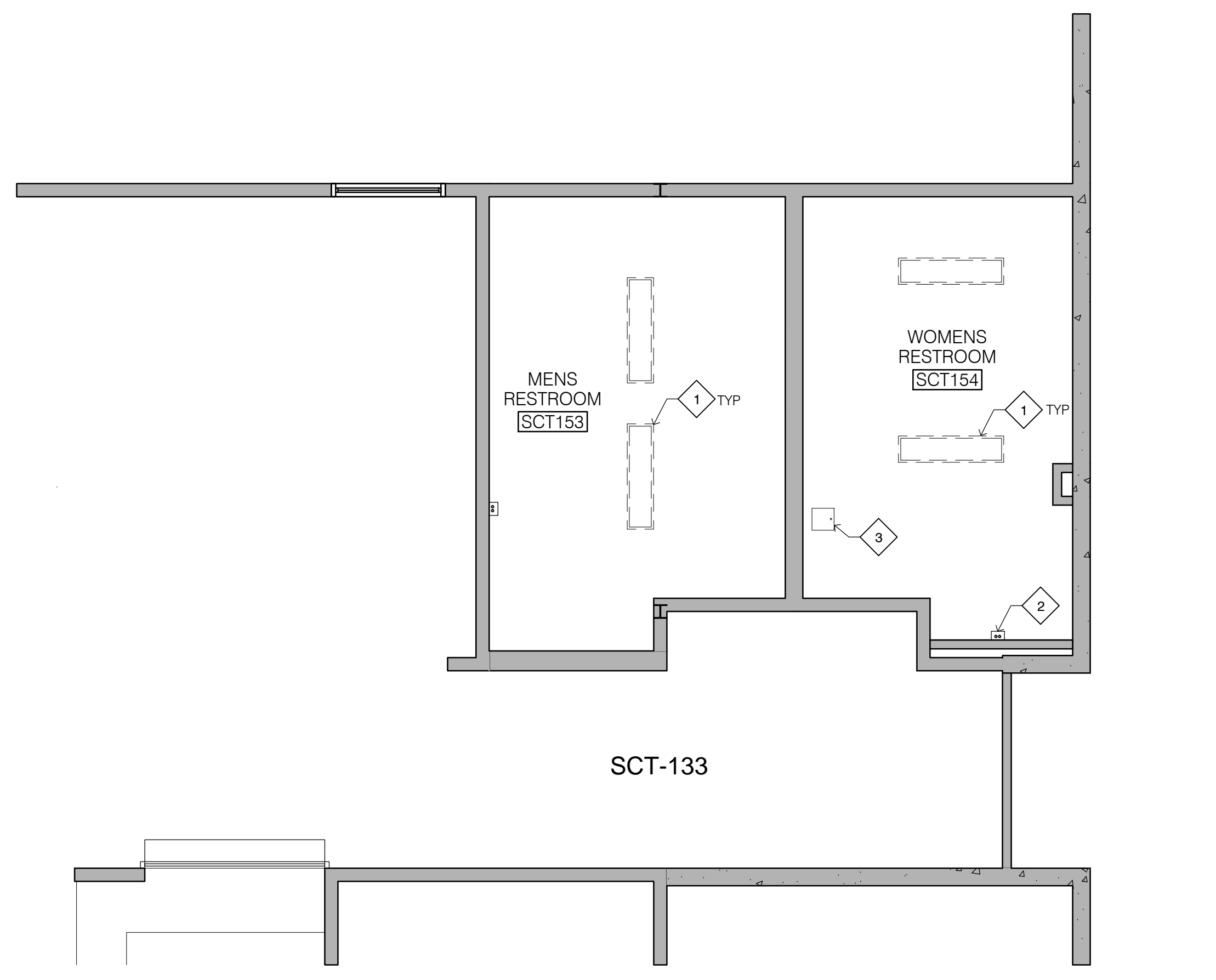
SHEET: SCT BUILDING  
 TITLE: DEMO PLANS & REMODEL PLANS

**GENERAL NOTES :**

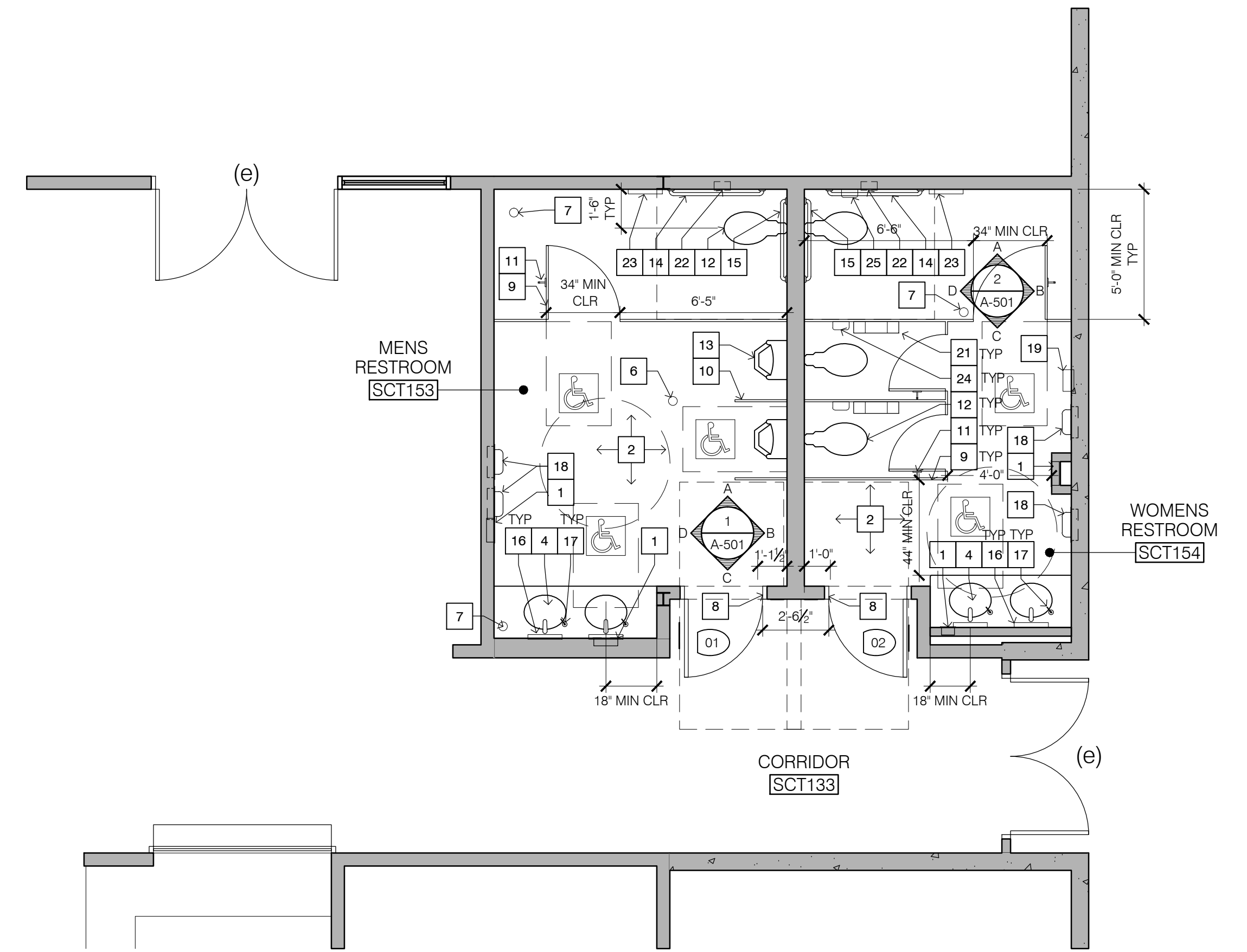
1. CONFIRM EXACT LOCATION OF CEILING MOUNTED/ROOF MOUNTED ITEMS IN THE FIELD



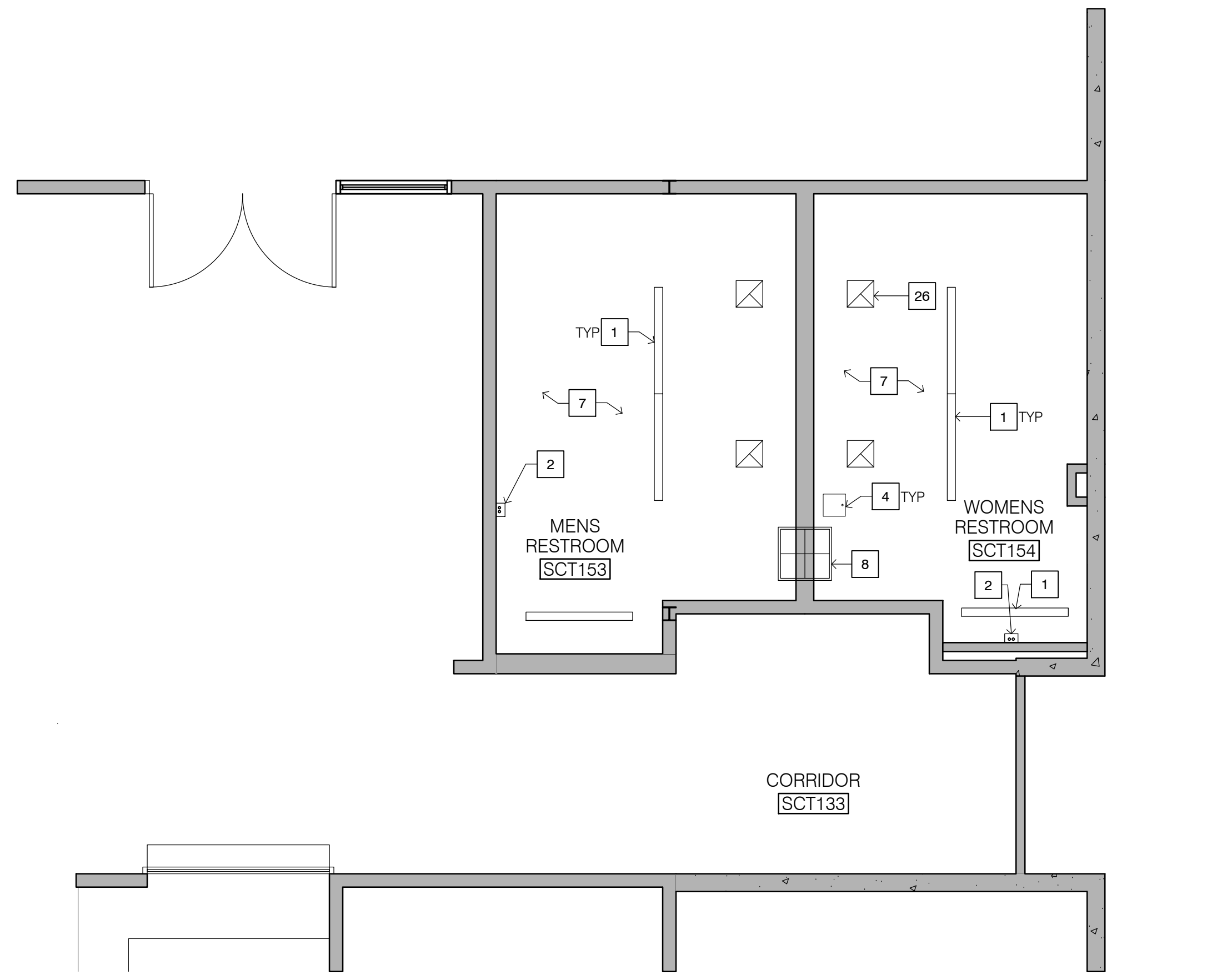
**1 SCT RESTROOMS - DEMO FLOOR PLAN**  
 SCALE : 1/4" = 1'-0"



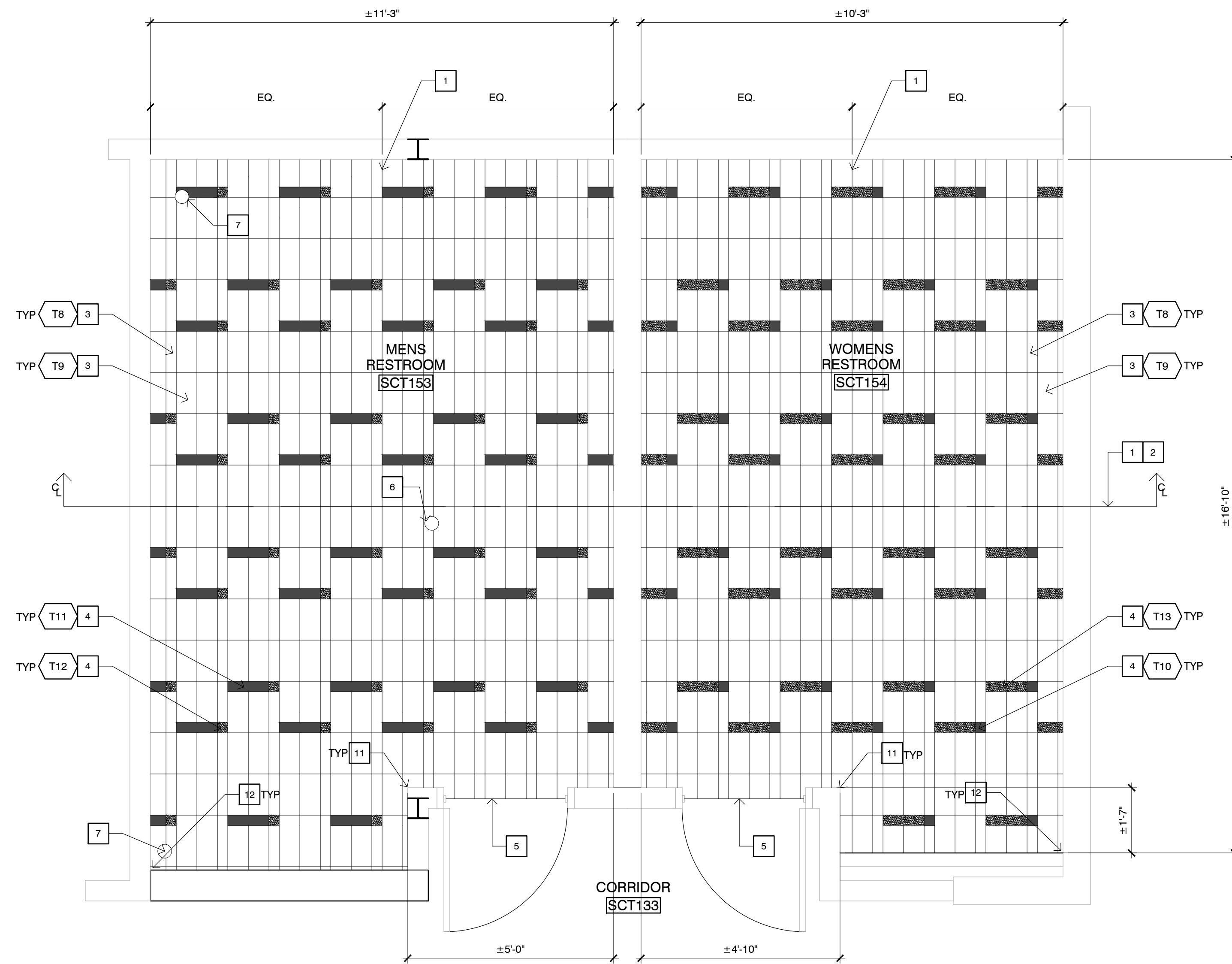
**2 SCT RESTROOMS - DEMO RCP**  
 SCALE : 1/4" = 1'-0"



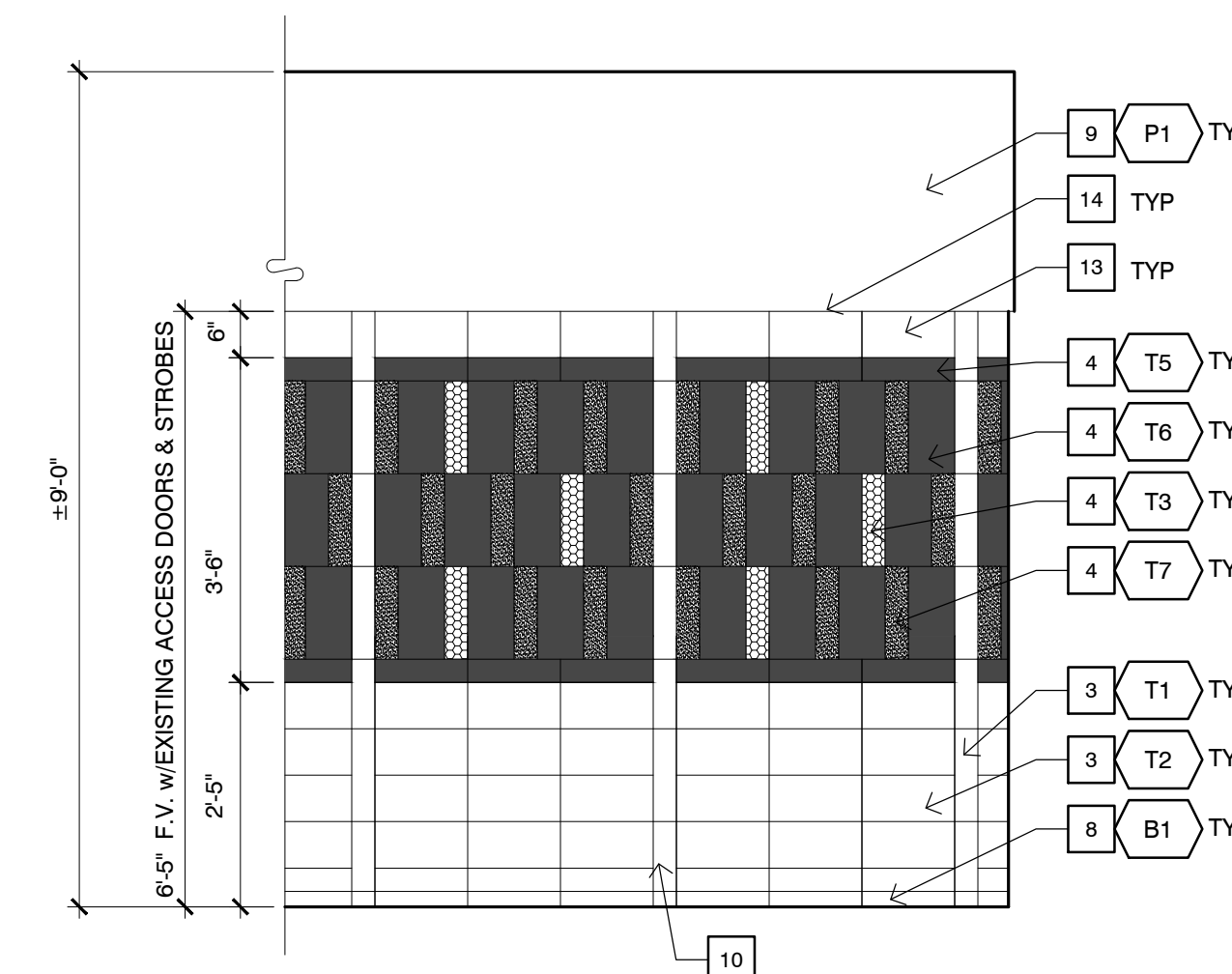
**3 SCT RESTROOMS - FLOOR PLAN**  
 SCALE : 1/4" = 1'-0"



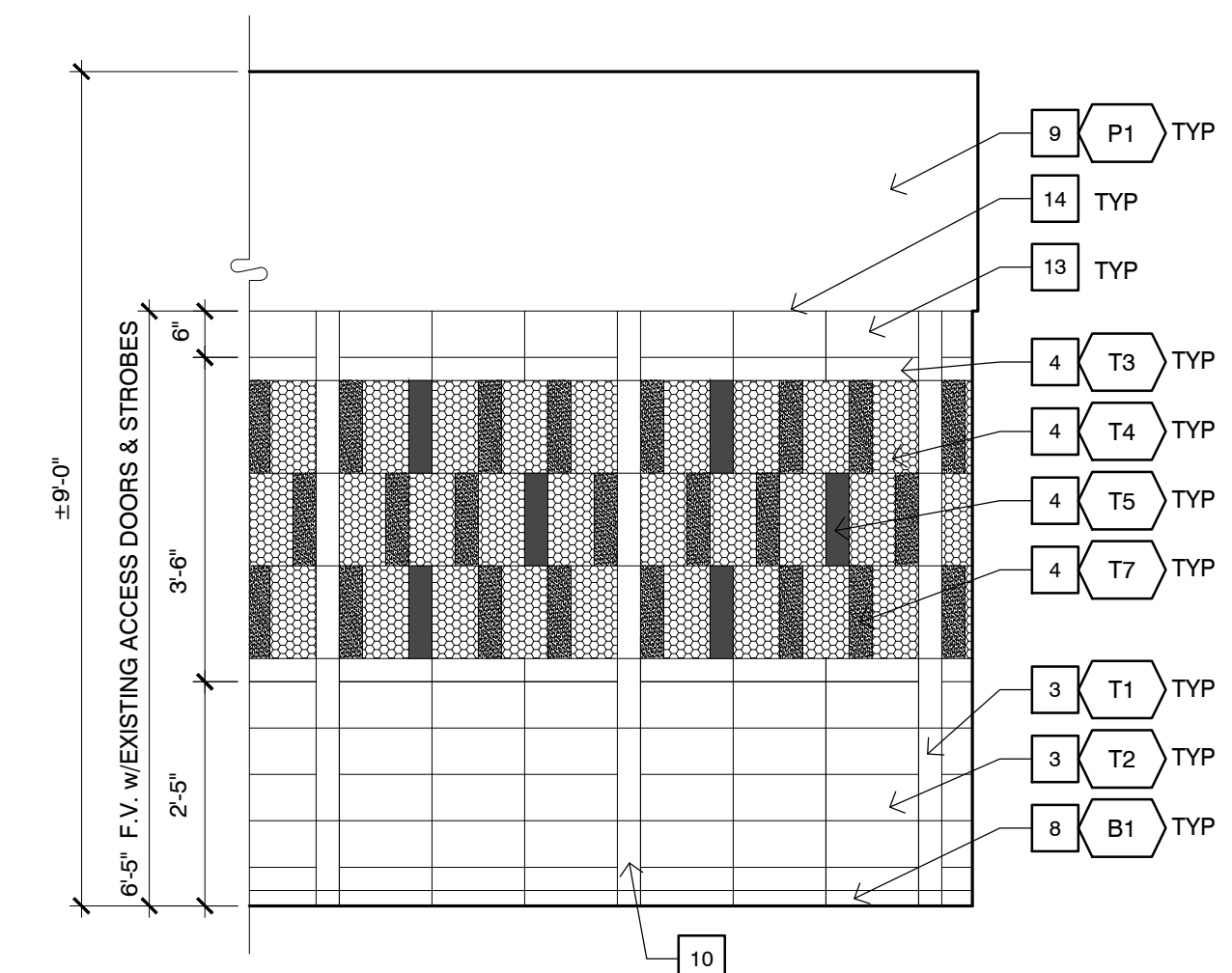
**4 SCT RESTROOMS - RCP**  
 SCALE : 1/4" = 1'-0"



**2 Restroom Floor Tile Patterns Bldg. SCT**  
 SCALE: 1/2" = 1'-0"



**9 Wall Tile Pattern Mens Restroom - Room SCT-153**  
 SCALE: 1/2" = 1'0"

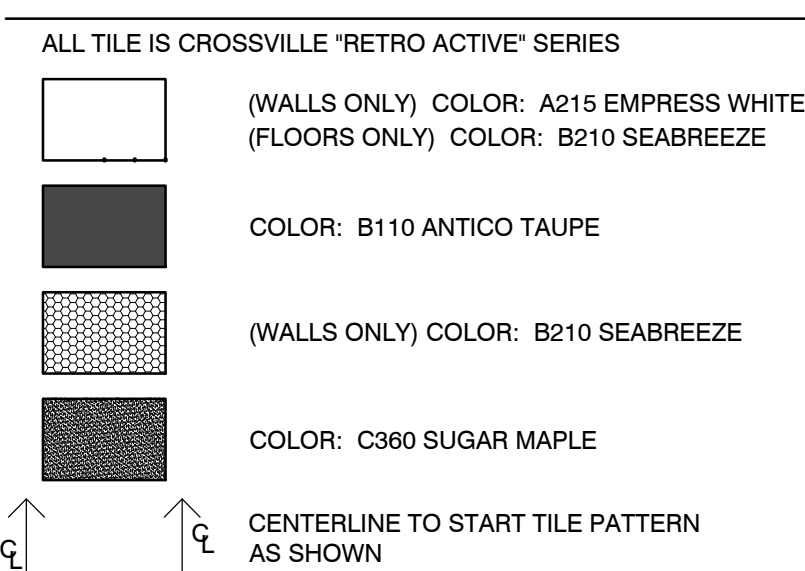


**10 Wall Tile Pattern Womens Restroom - Room SCT-154**  
 SCALE: 1/2" = 1'0"

**GENERAL NOTES:**

- NEW LIGHT FIXTURES ARE SMALLER WIDTH THAN THE (E) IN LOCATIONS TO RECEIVE NEW LIGHT FIXTURES. PATCH GYP BD CEILING AND PAINT PRIOR TO INSTALLING FIXTURES
- ALL (E) METAL DOORS TO BE PAINTED P2. ALL (E) METAL DOOR FRAMES TO BE PAINTED P3. (E) WOOD DOORS TO REMAIN AS IS.
- ALL GP BD WALLS AND CEILINGS TO BE PAINTED P1 U.N.O.
- TYPICAL WALL TILE BASE PER **9**
- TYPICAL TILE WAINSCOT TOP PER **10**

**TILE PATTERN KEY:**



**MATERIALS & COLOR LEGEND :**

- |   |   |
|---|---|
| <b>WALL FIELD TILES</b>   | <b>FLOOR FIELD TILES</b>  |
| <b>T1</b> 3" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: A215 EMPRESS WHITE, FINISH: POLISHED SHEEN               | <b>T8</b> 3" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B210 SEABREEZE, FINISH: UNPOLISHED SHEEN                             |
| <b>T2</b> 6" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: A215 EMPRESS WHITE, FINISH: POLISHED SHEEN               | <b>T9</b> 6" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B210 SEABREEZE, FINISH: UNPOLISHED SHEEN                             |
| <b>WALL ACCENT TILE</b>   | <b>FLOOR ACCENT TILE</b>  |
| <b>T3</b> 3" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B110 ANTICO TAUPE, FINISH: POLISHED SHEEN                | <b>T10</b> 3" X 3" PORCELAIN TILE (CUT FROM 3" X 12" TILE), CROSSVILLE 'RETRO ACTIVE', COLOR: B110 ANTICO TAUPE, FINISH: UNPOLISHED SHEEN |
| <b>T4</b> 6" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B110 ANTICO TAUPE, FINISH: POLISHED SHEEN                | <b>T11</b> 3" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B110 ANTICO TAUPE, FINISH: UNPOLISHED SHEEN                         |
| <b>T5</b> 3" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B210 SEABREEZE, FINISH: POLISHED SHEEN                   | <b>T12</b> 3" X 3" PORCELAIN TILE (CUT FROM 3" X 12" TILE), CROSSVILLE 'RETRO ACTIVE', COLOR: C960 SUGAR MAPLE, FINISH: UNPOLISHED SHEEN  |
| <b>T6</b> 6" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B210 SEABREEZE, FINISH: POLISHED SHEEN                   | <b>T13</b> 3" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: C630 MAPLE SUGAR, FINISH: UNPOLISHED SHEEN                          |
| <b>T7</b> 3" X 12" PORCELAIN TILE, CROSSVILLE 'RETRO ACTIVE', COLOR: B360 MAPLE SUGAR, FINISH: POLISHED SHEEN                 | <b>DOORS</b>  |
| <b>WALL BASE</b>  | <b>P2</b> PAINT DOORS TO MATCH FRAZEE COLOR: T.B.D.   |
| <b>B1</b> 2" X 12" PORCELAIN TILE w/COVE BASE, CROSSVILLE 'RETRO ACTIVE', COLOR: A215 EMPRESS WHITE, FINISH: UNPOLISHED SHEEN | <b>P3</b> PAINT FRAMES TO MATCH FRAZEE COLOR: T.B.D.  |
| <b>WALL &amp; CEILING PAINT</b>   | <b>COUNTERS</b>   |
| <b>P1</b> PAINT TO MATCH FRAZEE COLOR: CLW 1007/W. BLAEBERRY, PER SPECIFICATION SEC. 099123                                   | <b>CS1</b> AVONITE SOLID SURFACE, K3-8455 ANTIQUE GLASS   |
|   | <b>TOILET PARTITIONS</b>  |
|   | <b>TP1</b> BOBRICK, SIERRA SERIES, COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLOR OPTIONS  |

**KEYNOTES:**

- START FULL HERE
- ALIGN WALL TILE INSTALLATION WITH FLOOR TILE INSTALLATION AT MATCH LINES AS SHOWN
- FIELD TILE
- ACCENT TILE
- STAINLESS STEEL TRANSITION EDGE TRIM AT FLOOR TILE TRANSITION - CENTERED UNDER DOOR
- (E) FLOOR DRAIN
- (E) FLOOR CLEAN OUT
- COVE BASE
- (E) PLASTER OR GYP BD TO BE PAINTED
- START WALL PATTERN BY ALIGNING 3" X 12" WALL TILE WITH 3" X 12" FLOOR TILE
- OUTSIDE CORNERS TO BE FINISHED WITH ALUMINUM ROUNDED CORNER WALL TRIM PER SPEC. SEC. 093013 & TILE MANUFACTURER'S MATCHING 2" X 2" INSIDE COVE BASE CORNER PIECE
- INSIDE CORNERS TO BE FINISHED WITH ALUMINUM COVE PROFILE WALL TRIM PER SPEC. SEC. 093013 & TILE MANUFACTURER'S MATCHING 2" X 2" INSIDE COVE BASE CORNER PIECE
- ADD (N) BACKER BOARD BEHIND WALL TILE PRIOR TO INSTALLATION
- PROVIDE ALUMINUM EDGE PROTECTION TRIM AT TOP OF TILE WAINSCOT PER SPEC. SEC. 093013. MITRE CUT TRIM AT INSIDE & OUTSIDE CORNERS

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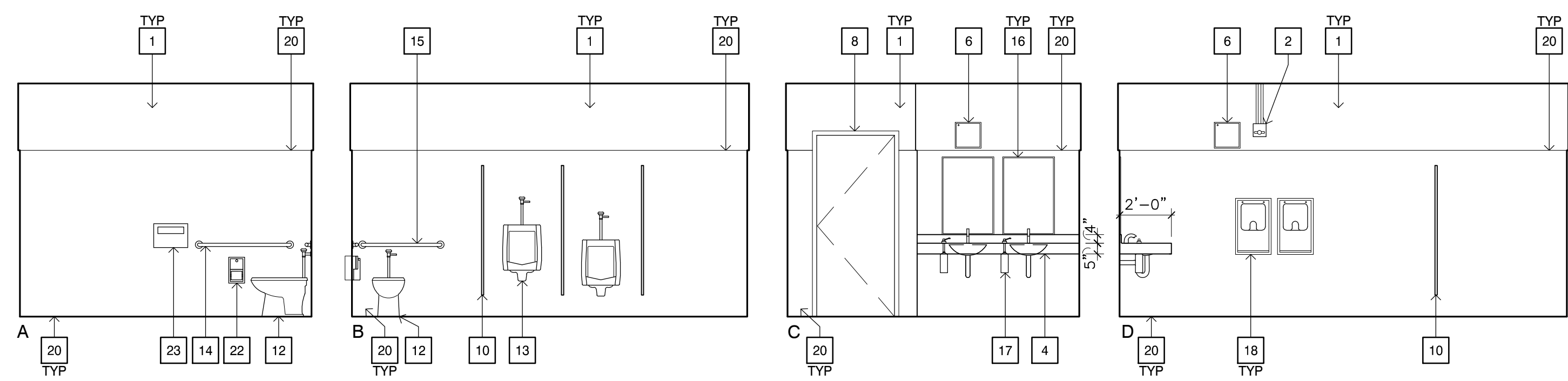
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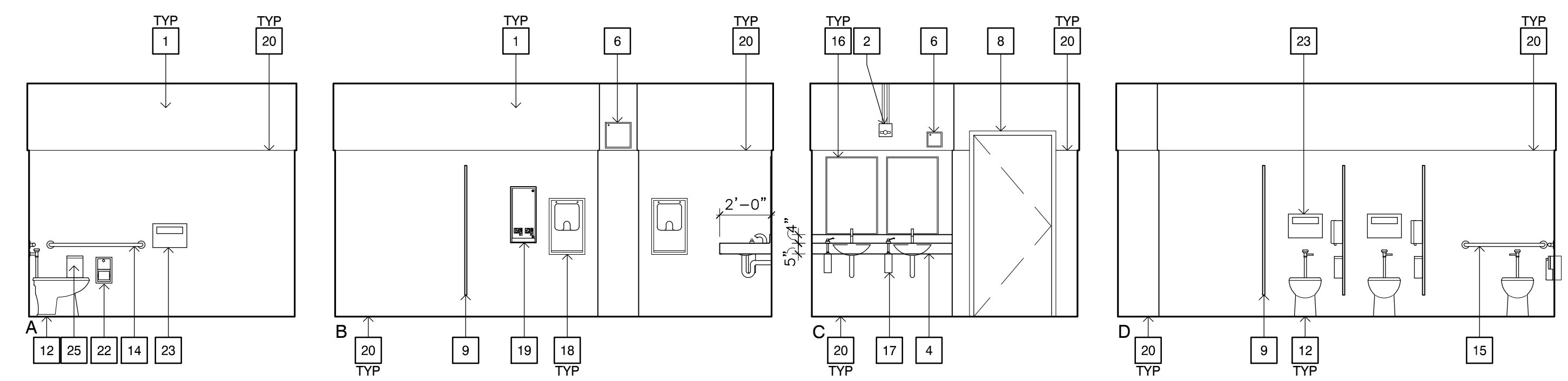
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REVISION	DESCRIPTION	DATE	BY

DRAWN: L.H.  
 CHECKED: T.H.C.  
 DATE: 06/19/2017  
 JOB. NO. 14063

SHEET FINISH MATERIALS &  
 TITLE ENLARGED TILE PATTERNS



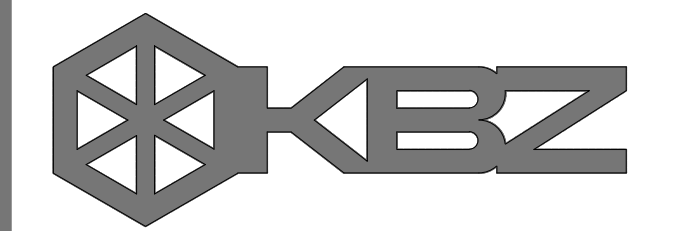
**1 Mens Restroom - Room SCT-153**  
 SCALE : 1/4" = 1'-0"



**2 Womens Restroom - Room SCT-154**  
 SCALE : 1/4" = 1'-0"

**ELEVATION KEYNOTES:**

- 1 (E) PLASTER OR GYP BD TO BE PAINTED P1
- 2 (E) SURFACE MOUNTED CONDUIT AND FIRE STROBE
- 3 NOT USED
- 4 ACCESSIBLE COUNTER WITH SINKS PER 3  
A-701
- 5 NOT USED
- 6 (E) ACCESS PANEL PAINTED TO MATCH P1
- 7 NOT USED
- 8 (E) DOOR AND FRAME TO BE PAINTED P2
- 9 TOILET PARTITION AND DOOR, PROVIDE BACKING PER 8  
A-701
- 10 URINAL SCREEN, PROVIDE BACKING PER 8  
A-701
- 11 COAT HOOK w/BUMPER MOUNTED ON PARTITION DOOR
- 12 FLOOR MOUNTED TOILET
- 13 NOT USED
- 14 48" MIN GRAB BAR, PROVIDE BACKING PER 8  
A-701
- 15 36" MIN GRAB BAR, PROVIDE BACKING PER 8  
A-701
- 16 SURFACE-MOUNTED MIRROR w/ S.S. FRAME
- 17 UNDER-COUNTER SOAP DISPENSER
- 18 SEMI-RECESSED HAND DRYER
- 19 SEMI-RECESSED SANITARY NAPKIN DISPENSER
- 20 CERAMIC WALL TILE & BASE PER SHEET A-401
- 21 NOT USED
- 22 SEMI-RECESSED TOILET PAPER DISPENSER
- 23 SURFACE-MOUNTED SEAT COVER DISPENSER
- 24 NOT USED
- 25 SEMI-RECESSED SANITARY NAPKIN DISPOSAL UNIT

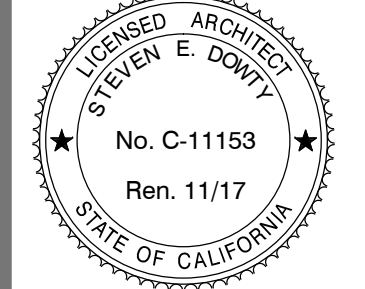


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**STEVE DOWTY**  
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DRAWN: LJJ  
 CHECKED: THC  
 DATE: 06/19/2017  
 JOB NO: 14063

SHEET: ELEVATIONS  
 TITLE:

SHEET  
 TITLE  
**A-501**

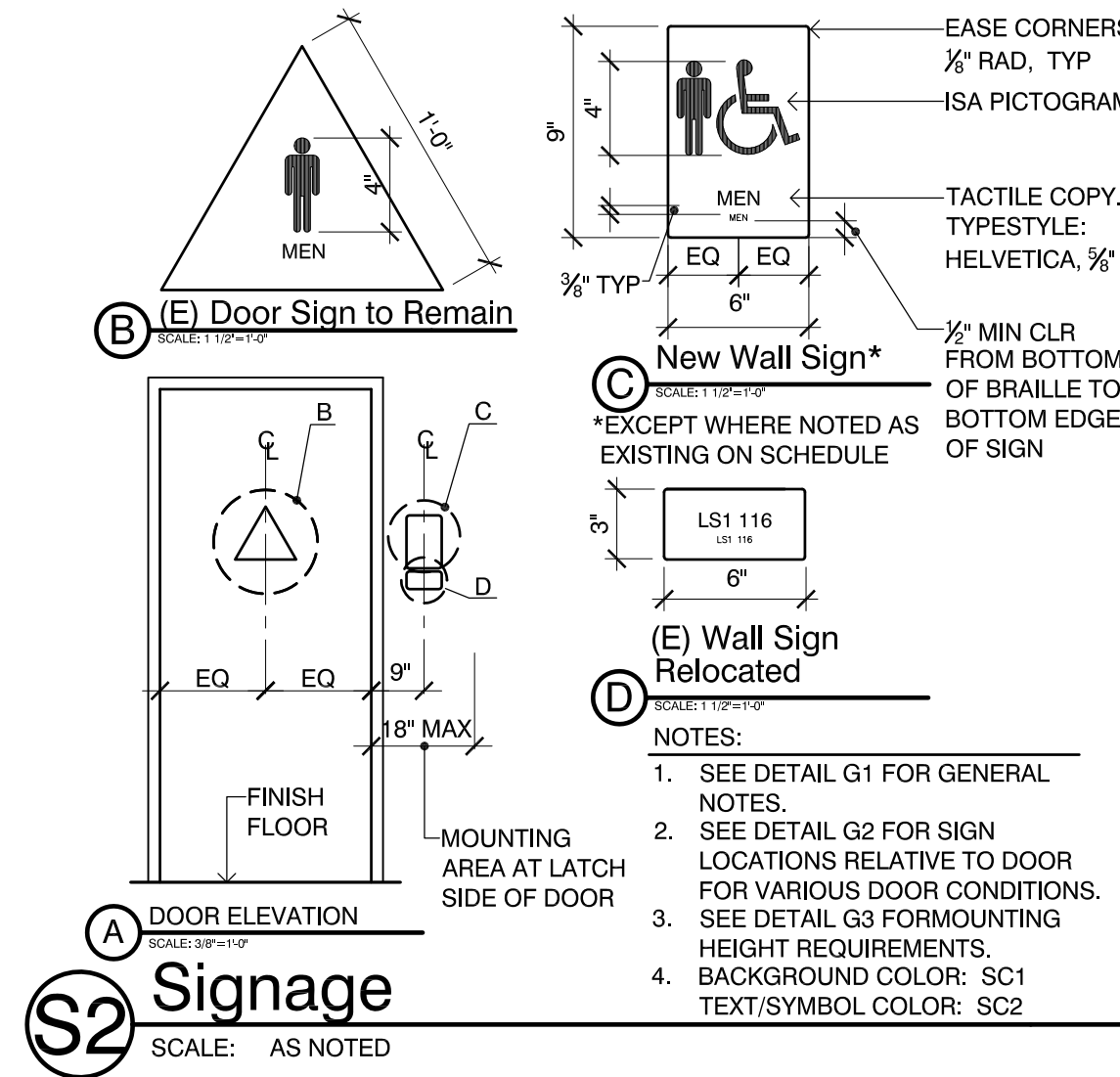
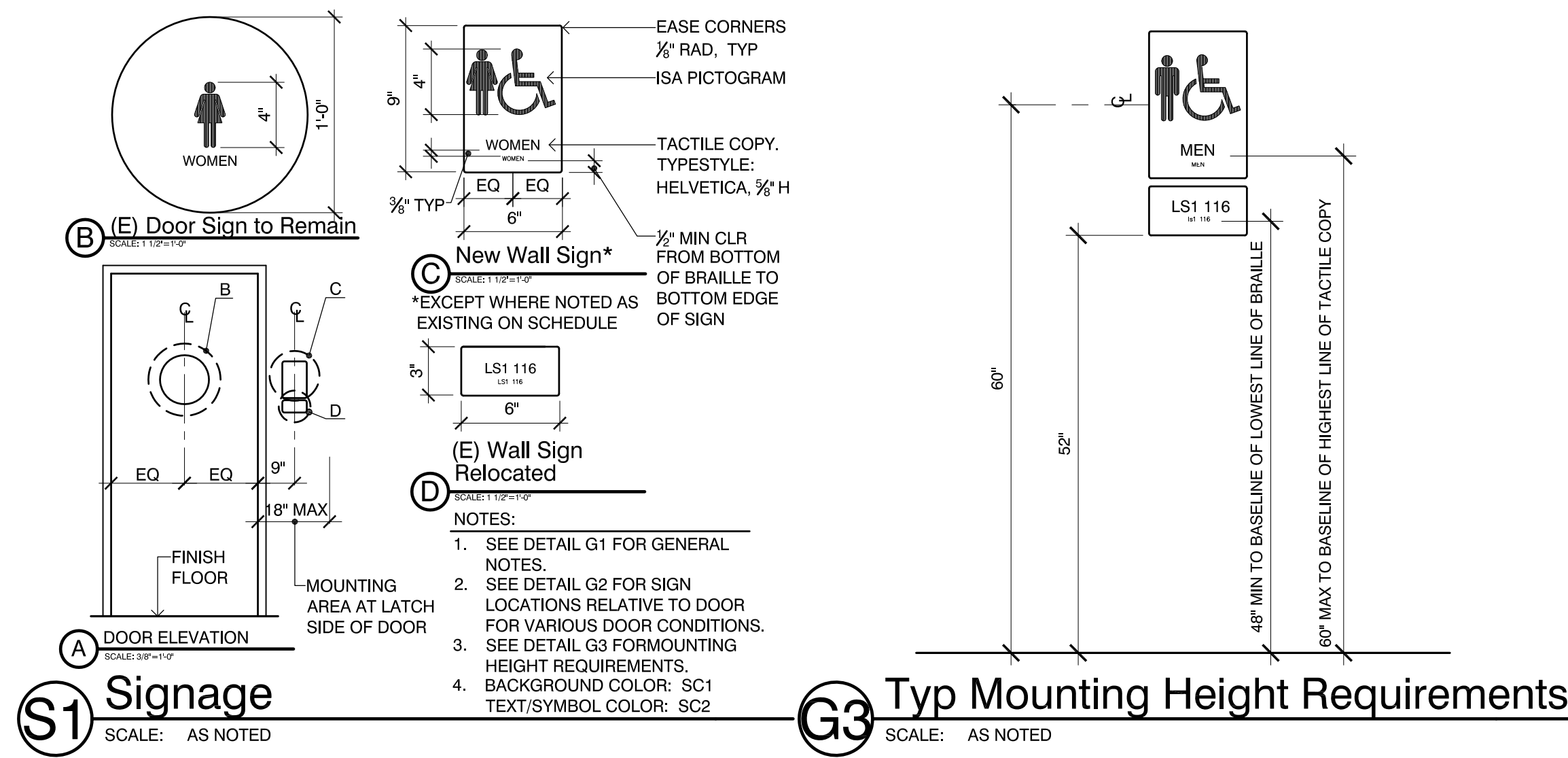




SIGNAGE MESSAGE SCHEDULE							
DOOR NO.	SIGNAGE INFO						
	SIGN TYPE/ SEE DETAIL SIDE OF DOOR		DESCRIPTION		MESSAGE		SIGNAGE REMARKS
	PULL SIDE	PUSH SIDE	PULL SIDE	PUSH SIDE	PULL SIDE	PUSH SIDE	
01	1	-	S2	-	MEN	-	2 3
02	1	-	S1	-	WOMEN	-	2 3
03	-	-	-	-	-	-	2 3 4
04	-	-	-	-	-	-	2 3 4
05	1	-	S2	-	MEN	-	2 3
06	1	-	S1	-	WOMEN	-	2 3

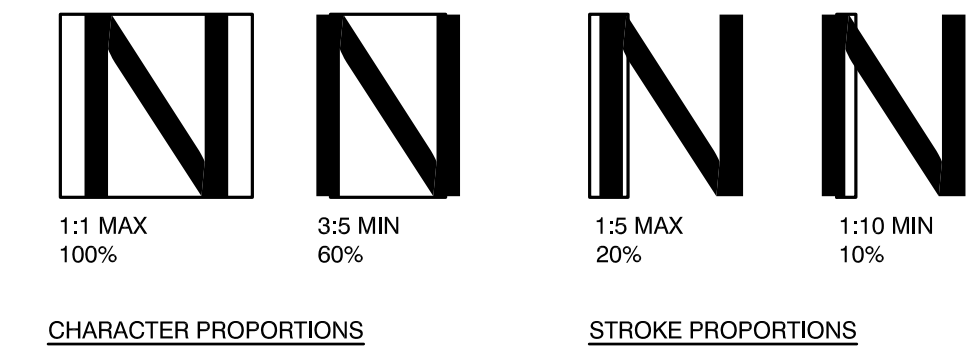
**SIGNAGE KEYNOTES**

- 1 NEW ACRYLIC PANEL SIGN(S)
- 2 (E) SIGNAGE MOUNTED ON DOOR TO REMAIN
- 3 RELOCATE (E) SIGN CONTAINING ROOM NAME & NUMBER. SEE DETAIL G3- FOR MOUNTING HEIGHT
- 4 RELOCATE (E) WALL MOUNTED RESTROOM SIGN. SEE DETAIL G3- FOR MOUNTING HEIGHT

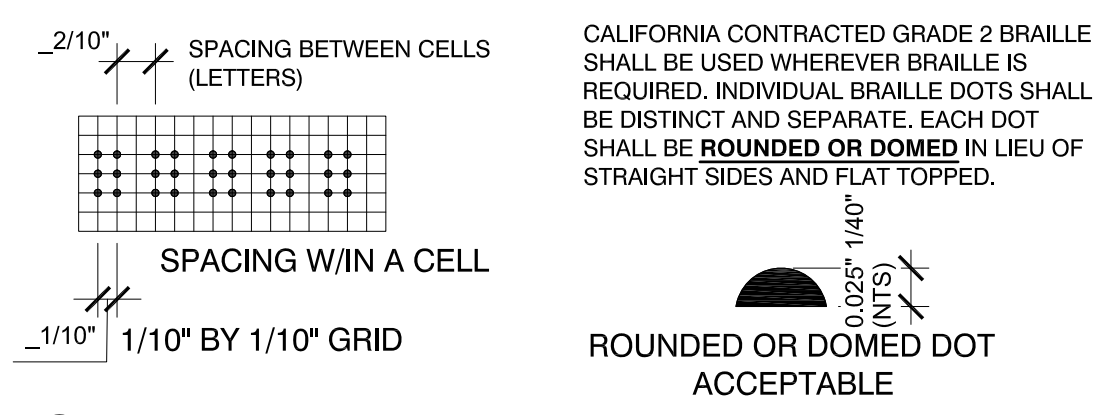


- CHARACTER TYPE: (TACTILE) CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MIN. AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5).
- CHARACTER SIZE: RAISED CHARACTERS (TACTILE COPY) SHALL BE A MIN. OF 5/8" INCH AND A MAX. OF 2 INCHES HIGH.
- FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MIN. AND HAVE A NON-GLARE FINISH. CBC 1117B.5.2.
- PROPORTIONS: VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.  
RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
- BRAILLE: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH ON CENTERS IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE BE **ROUNDED OR DOMED** AND RAISED A MIN. OF 1/40 INCH ABOVE THE BACKGROUND. CBC 1117B.5.6, ANSI A117.1, 705.5.
- SEE BELOW FOR WIDTH TO HEIGHT PROPORTIONS TEMPLATE AND BRAILLE SPACING TEMPLATE.
- TEXT SHOWN ON DETAIL FOR INFORMATION ONLY. MESSAGE SCHEDULE PROVIDED DURING SUBMITTAL REVIEW, UNLESS OTHERWISE NOTED.
- NEW SIGN COLOR SC1: TO MATCH EXISTING ROOM SIGNAGE BACKGROUND COLOR  
NEW SIGN COLOR SC2: TO MATCH EXISTING ROOM SIGNAGE TEXT COLOR

**A SIGNAGE GENERAL NOTES**

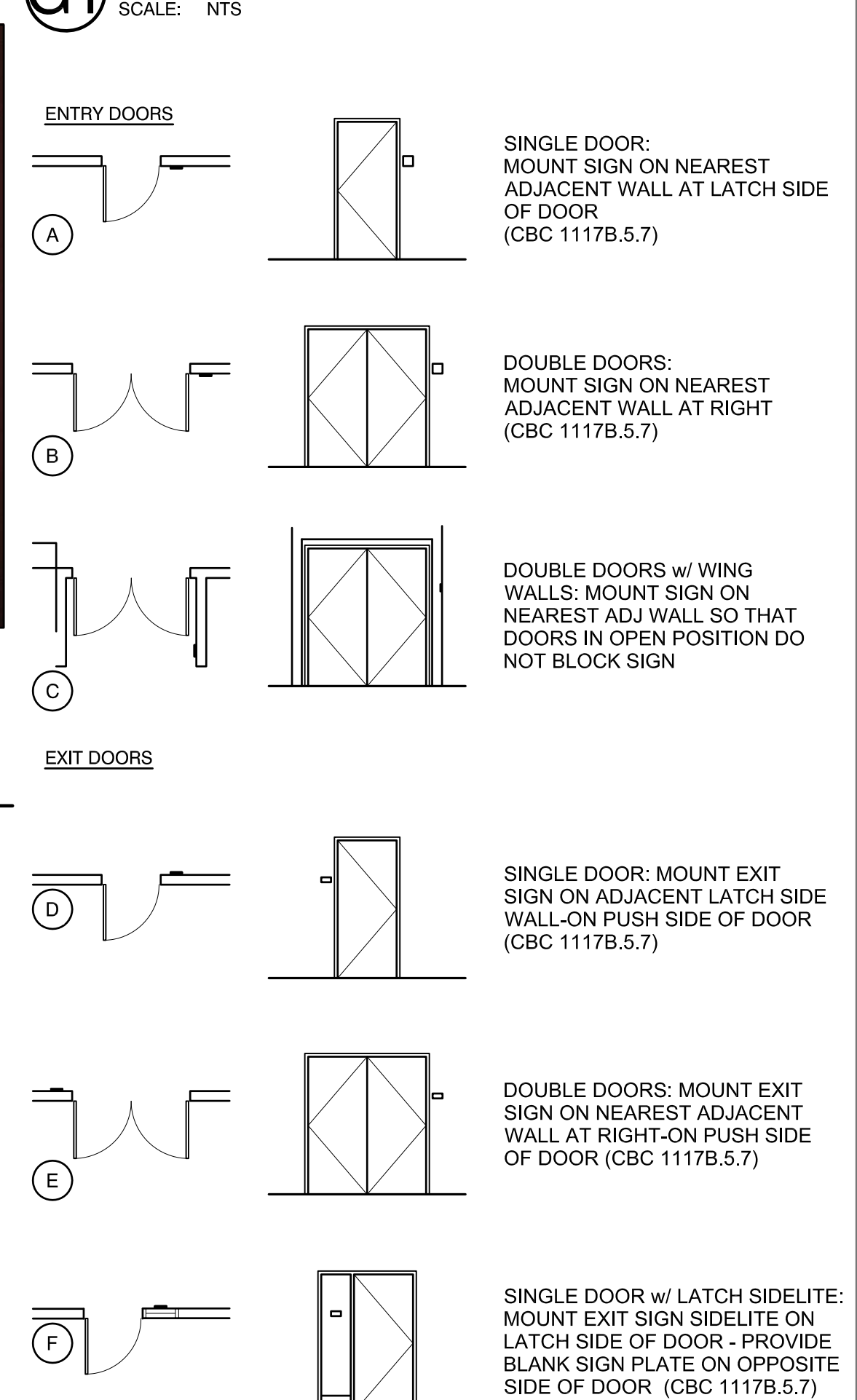


**B WIDTH TO HEIGHT PROPORTIONS TEMPLATE**



**C BRAILLE SPACING & SHAPE TEMPLATE**

**Signage General Notes and Templates**



**Sign Locations - Relative to Door**



**G4 Existing (E) Door Signage - For Reference Only (NIC)**

SCALE: AS NOTED

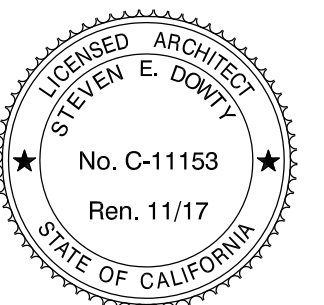


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**STEVE DOWDY**  
Principal Architect

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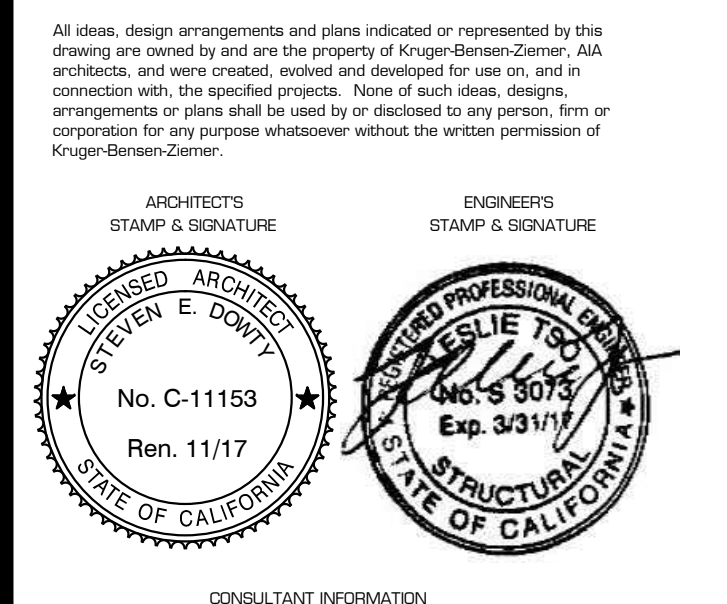
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CHECKED TC  
DATE 06/19/2017  
JOB. NO. 14063

SHEET SIGNAGE DETAILS & PHOTOS  
TITLE

SHEET

A-801

(NOT USED)				
	1 PLAN DETAIL 1"	2 DETAIL 1/2"	4 DETAIL 1/2"	10 (E) ROOF FRAMING PLAN SCT RESTROOMS 1/8"
(NOT USED)		(NOT USED)	(NOT USED)	(NOT USED)
	6 DETAIL 3"	7 (NOT USED) 1"	9 (NOT USED) 1"	10 (E) ROOF FRAMING PLAN SCT RESTROOMS 1/8"
(NOT USED)	(NOT USED)	(NOT USED)	(NOT USED)	(NOT USED)
	11 (NOT USED) 3"	12 (NOT USED) 1"	14 (NOT USED) 1"	15 (NOT USED) 1/8"
(NOT USED)	(NOT USED)	(NOT USED)	<p><b>A. STRUCTURAL NOTES:</b></p> <ol style="list-style-type: none"> <li>THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY. THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.</li> <li>IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE, CONSTRUCTION.</li> <li>GOVERNING CODE: CALIFORNIA BUILDING CODE, 2016 EDITION</li> <li>ROOF LIVE LOAD: 20 PSF</li> <li>WIND DESIGN PARAMETERS             <ol style="list-style-type: none"> <li>BASIC WIND SPEED = 115 MPH</li> <li>RISK CATEGORY III.</li> <li>WIND EXPOSURE CATEGORY = C FOR COMPONENTS AND CLADDING</li> </ol> </li> <li>SEISMIC DESIGN PARAMETERS (EQUIVALENT LATERAL FORCE PROCEDURE)             <p>SITE CLASS: D,              SEISMIC DESIGN CATEGORY "D" RISK CATEGORY III.              SS = 1.502g S<sub>1</sub> = 0.699g              SDS = 1.001g S<sub>0.1</sub> = 0.699g</p> </li> </ol> <p>• NOTE: STRUCTURAL DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS OR PROCEDURES FOR CONSTRUCTION SAFETY.</p>	<p><b>B. MISCELLANEOUS STEEL:</b></p> <ol style="list-style-type: none"> <li>COORDINATE THE ERECTION WITH THE INSTALLATION OF OTHER BUILDING ELEMENTS REQUIRED FOR THE STRUCTURE'S STABILITY. THESE ELEMENTS INCLUDE SLABS, WALLS, OPEN-WEB TRUSSES, AND LIGHT FRAMED WOOD PANELS.</li> <li>MATERIALS:             <ol style="list-style-type: none"> <li>STRUCTURAL STEEL: ASTM A36, F<sub>y</sub> = 36 KSI;</li> <li>BOLTS: ASTM A307 OR A56; ELECTRODES: SERIES E70XX;</li> </ol> </li> <li>SPECIFICATION: WELDING PERSONNEL AND PROCEDURES SHALL BE QUALIFIED PER AWS D1.1, UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:             <ol style="list-style-type: none"> <li>AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS</li> <li>AISC CODE OF STANDARD PRACTICE.</li> <li>STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY.</li> </ol> </li> <li>CONNECTIONS:             <ol style="list-style-type: none"> <li>FIELD CONNECTIONS TO BE BOLTED. SHOP CONNECTIONS TO BE WELDED OR BOLTED.</li> <li>SHOP WELDS SHALL BE PERFORMED IN A LICENSED FABRICATOR'S SHOP.</li> <li>FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS FOR STRUCTURAL FOR STRUCTURAL STEEL AND LIGHT GAGE STEEL.</li> </ol> </li> <li>PAINT:             <ol style="list-style-type: none"> <li>ALL STRUCTURAL STEEL SHALL BE SHOP PRIMED WITH TWO COATS OF PRIMER.</li> </ol> </li> </ol>
	16 (NOT USED) 3"	17 (NOT USED) 1"	18 (NOT USED) 1"	15 (NOT USED) 1/8"
(NOT USED)	(NOT USED)	(NOT USED)	<p><b>STRUCTURAL GRAPHIC LEGEND:</b></p> <p><b>MATERIALS</b></p> <p>/// STEEL</p> <p>(N) INDICATES NEW CONSTRUCTION          (E) INDICATES EXISTING CONSTRUCTION</p> <p><b>SYMBOLS</b></p> <p>○ NUMBER REF.          □ DETAIL OR SECTION          ○ SHEET REF.</p>	<p>REVISION DESCRIPTION DATE BY</p> <p>DRAWN: H. VELASQUEZ          CHECKED: L. TSO          DATE: 03/21/17          JOB NO. 14063</p> <p>SHEET TITLE: LS1 &amp; SSV BUILDINGS GENERAL NOTES, PARTIAL ROOF FRAMING PLANS, SECTIONS &amp; DETAILS</p> <p>SHEET: S-101</p>
	21 (NOT USED) 3"	22 (NOT USED) 1"	24 GENERAL NOTES	25 (NOT USED) 1/8"



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 DIVISION OF THE STATE ARCHITECT  
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**EXHAUST FAN SCHEDULE**

SYMBOL	MANUFACTURER AND MODEL NUMBER	LOCATION AND DRAWING REFERENCE	SERVICE	TYPE	CAPACITY (CFM)	SP (IN.)	RPM	BHP	DRIVE		ELECTRICAL CHARACTERISTICS				OPERATING WEIGHT (LB)	REMARKS
									TYPE	VFD	HP	VOLTS	PHASE	HERTZ		
EF SCT	COOK ACRU-B-100R2B	ROOF 1/M-202	MEN'S & WOMEN'S RESTROOMS	UPBLAST CENTRIFUGAL	530	0.5	1,457	0.111	DIRECT	N/A	1/6	120	1	60	85	PROVIDE 8" HIGH ROOF CURB AND BACKDRAFT DAMPER.

**HVAC ABBREVIATIONS**

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
A	AMPS	LVG	LEAVING
ABV	ABOVE	MA	MIXED AIR
AD	ACCESS DOOR	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
AHU	AIR HANDLING UNIT	MCC	MOTOR CONTROL CENTER
AMB	AMBIENT	MFGR	MANUFACTURER
AP	ACCESS PANEL	MIN	MINIMUM
ARCH	ARCHITECTURAL	MOC	MAXIMUM OVERCURRENT PROTECTION
AUTO	AUTOMATIC	MPH	MILES PER HOUR
BEL	BELOW	NC	NOISE CRITERIA
BFG	BELOW FINISHED GRADE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BHP	BRAKE HORSEPOWER	NIC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNITS PER HOUR	OB	OPPOSED BLADE DAMPER
CAP	CAPACITY	OC	ON CENTER
CB	CIRCUIT BREAKER	OC	OWNER FURNISHED AND CONTRACTOR INSTALLED
CFM	CUBIC FEET PER MINUTE	OPNG	OPENING
CLG	CEILING	OP	OPERATING
COMP	COMPRESSOR	OV	OUTLET VELOCITY
COND	CONDITION	PERF	PERFORATED
CONDR	CONDENSER	PD	PRESSURE DROP
COP	COEFFICIENT OF PERFORMANCE	PH	PHASE
CU	CONDENSING UNIT	PR, PRESS	PRESSURE
CV	CONSTANT VOLUME	PSI	POUND PER SQUARE INCH
dB	DECIBEL	QTY	QUANTITY
DB	DRY BULB TEMPERATURE	REFR	REFRIGERANT
DDC	DIRECT DIGITAL CONTROL	RH	RELATIVE HUMIDITY
DEFL	DEFLECTION	RJA	RATED LOAD AMPERES
DEMO	DEMOLITION	RPM	REVOLUTIONS PER MINUTE
DL	DOOR LOUVER	SC	SENSIBLE CAPACITY
DN	DOWN	SD	SMOKE DETECTOR
DPSW	DIFFERENTIAL PRESSURE SWITCH	SEER	SEASONAL ENERGY EFFICIENCY RATIO
DS	DUCT SILENCER	SF, SQ FT	SQUARE FEET
DSW	DISCONNECT SWITCH	SG	SUPPLY GRILLE
DWGS	DRAWINGS	SHT	SHEET
EX, EXIST	EXISTING	SO	SCREENED OPENING
EA	EACH	SP	STATIC PRESSURE
EER	ENERGY EFFICIENCY RATIO	SPEC(S)	SPECIFICATIONS
EF	EXHAUST FAN	SS	STAINLESS STEEL
EFF	EFFICIENCY	ST	STEAM TRAP
ELECT	ELECTRICAL	SW	SWITCH
ELEV	ELEVATION	TA	TRANSFER AIR
ENCL	ENCLOSURE	TC	TOTAL CAPACITY
ENT	ENTERING	TDH	TOTAL DYNAMIC HEAD
ESP	EXTERNAL STATIC PRESSURE	TE	TOP ELEVATION
EVAP	EVAPORATOR, EVAPORATIVE	TEMP	TEMPERATURE
F	DEGREES FAHRENHEIT	TSP	TOTAL STATIC PRESSURE
FD	FLOOR DRAIN	TYP	TYPICAL
FLA	FULL LOAD AMPS	UC	UNDER CUT
FLEX	FLEXIBLE	UG	UNDERGROUND
FPI	FINS PER INCH	UL	UNDERWRITER'S LABORATORY
FPM	FEET PER MINUTE	UON	UNLESS OTHERWISE NOTED
FS	FLOOR SINK	UTR	UP THRU ROOF
FT	FOOT	V	VOLTS
FV	FACE VELOCITY	VAV	VARIABLE AIR VOLUME
GAL	GALLON	VEL	VELOCITY
GPM	GALLONS PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
H	HEIGHT	VTR	VENT THRU ROOF
HC	HEATING COIL	W	WIDTH
HP	HORSEPOWER	WB	WET BULB TEMPERATURE
HR	HOUR	WG	WATER GAUGE
HTG	HEATING	W/O	WITHOUT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WT	WEIGHT
HZ	HERTZ	WTR	WATER
IN	INCH		
KW	KILOWATT		
L	LENGTH		
LBS	POUNDS		
LD	LINEAR DIFFUSER		
LRA	LOCKED ROTOR AMPERES		

**HVAC AIRSIDE LEGEND**

SYMBOL	FLOW ARROW	ABBREV.	DESCRIPTION
	→	SA	SUPPLY AIR
	←	RA	RETURN AIR
	← EXH	EXH	EXHAUST AIR
	← OSA	OSA	OUTSIDE AIR
	← REL	REL	RELIEF AIR

SYMBOL	DOUBLE	SINGLE	ABBREV.	DESCRIPTION
	RECT	RND		
	WxH	Dø		DUCTWORK (FIRST DIMENSION IN SIZE FACES THE VIEWER)
				DUCT RISE OR TURN TOWARD VIEWER
				DUCT DROP OR TURN AWAY FROM VIEWER

SYMBOL	DOUBLE	SINGLE	ABBREV.	DESCRIPTION
			(E)	EXISTING DUCT, PIPE, OR EQUIPMENT
				EXISTING DUCT, PIPE, OR EQUIPMENT TO BE REMOVED
			(N)	NEW DUCT, PIPE, OR EQUIPMENT
			(L)	LINED DUCT: L = 1-INCH, 2L = 2-INCH, 3L = 3-INCH, ETC.
				FLEXIBLE DUCT CONNECTION
				TRANSITION: RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND
				TRANSITION: RECTANGULAR TO ROUND
				RISE IN DIRECTION OF AIRFLOW
				DROP IN DIRECTION OF AIRFLOW
				MITERED ELBOW WITH TURNING VANES
				SMOOTH RADIUS ELBOW
				BRANCH DUCT PRESSURE TAP OR WYE BRANCH CONNECTION
				ROUND BRANCH DUCT CONICAL TAP
				FLEXIBLE DUCT TO CEILING DIFFUSER
			BDD	BACKDRAFT DAMPER
			FSD	COMBINATION FIRE/SMOKE DAMPER
			VD	MANUAL VOLUME DAMPER
			MD	MODULATING DAMPER
			SD	DUCT MOUNTED SMOKE DETECTOR PROVIDED UNDER ELECTRICAL
			H	DUCT MOUNTED HUMIDIFIER DISTRIBUTION TUBE OR HEADER
				SIDE WALL GRILLE OF 500 CFM (FLOW ARROW INDICATES TYPE)
				CAPPED DUCTWORK

**CEILING DIFFUSER SCHEDULE, CD-1**

SYMBOL	DESCRIPTION	NECK SIZE ①	FACE DIMENSION ②	CFM RANGE	MAX. TOTAL PRESSURE (IN. W.C.)	MAX. NC	MAX THROW @ 50 FPM (FT)			
							1-WAY	2-WAY	3-WAY	4-WAY
	DIRECTIONAL AIR PATTERN PERFORATED FACE WITH MODULAR CORES	6"x6"	12"x12"	0-100	0.08	20	17	12	12	9
		8"x8"	16"x16"	101-170	0.08	20	22	15	15	11
		10"x10"	16"x16"	171-270	0.08	20	27	19	19	13
		12"x12"	24"x24"	271-400	0.07	20	32	22	22	16
		14"x14"	24"x24"	401-540	0.07	20	36	26	26	18
		16"x16"	24"x24"	541-700	0.06	20	41	29	29	21
	18"x18"	24"x24"	701-800	0.06	20	46	32	32	23	

REMARKS:  
 1. UNLESS OTHERWISE NOTED ON DRAWINGS.  
 2. FACE DIMENSION INDICATED IS FOR SURFACE MOUNT IN GYP. BOARD CEILING APPLICATIONS. PROVIDE 24"x24" PANEL FOR ALL NECK SIZES IN ACOUSTICAL LAY-IN T-BAR APPLICATIONS.  
 3. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING GRID AND BORDER TYPE.  
 4. PROVIDE DUCT TO NECK TRANSITION AS REQUIRED.

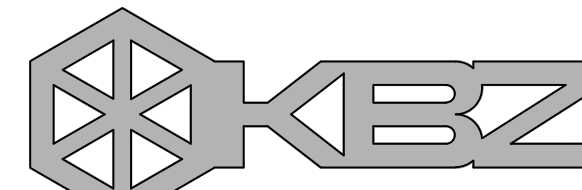
**CEILING RETURN AND EXHAUST GRILLE SCHEDULE, CG-1**

SYMBOL	DESCRIPTION	NECK SIZE ①	FACE DIMENSION ②	CFM RANGE	MAX. TOTAL PRESSURE (IN. W.C.)	MAX. NC	REMARKS
	PERFORATED FACE GRILLE	6"x6"	12"x12"	UP TO 100	0.09	15	① UNLESS OTHERWISE NOTED ON DRAWINGS.
		8"x8"	16"x16"	101-170	0.10	15	
		10"x10"	16"x16"	171-270	0.10	15	② FACE DIMENSION INDICATED IS FOR SURFACE MOUNT IN GYP. BOARD CEILING APPLICATIONS. PROVIDE 24"x24" PANEL FOR ALL NECK SIZES IN ACOUSTICAL LAY-IN T-BAR CEILING APPLICATIONS.
		12"x12"	20"x20"	271-400	0.10	20	
		14"x14"	20"x20"	401-540	0.10	20	③ COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING AND BORDER TYPE.
		16"x16"	24"x24"	541-710	0.10	20	
		18"x18"	24"x24"	711-800	0.10	20	④ GRILLE BACKPAN SHALL BE SAME FINISH AS GRILLE. ALL DAMPERS, EQUALIZING GRIDS, DUCT SURFACES, AND OTHER ACCESSORIES VISIBLE THROUGH GRILLE SHALL BE FLAT BLACK FINISH.
		20"x20"	24"x24"	801-1050	0.10	20	
	22"x22"	24"x24"	1051-1300	0.10	20		

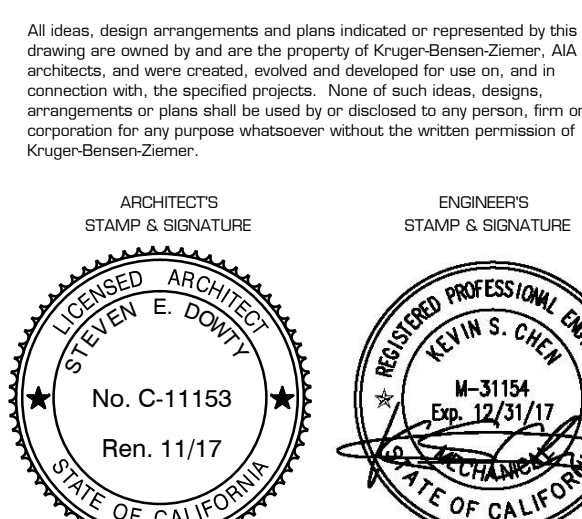
**HVAC NOTATION LEGEND**

SYMBOL	ABBREV.	DESCRIPTION
	STAT	THERMOSTAT
	TS	IN-DUCT TEMPERATURE SENSOR
	HS	HUMIDITY SENSOR
	STAT	IN-DUCT HUMIDITY SENSOR
	SW	SWITCH
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT OR DEMOLITION
	1	SHEET KEY NOTES DEMOLITION
	1	SHEET KEY NOTES NEW WORK
	DIA	DIAMETER
	3	DETAIL NUMBER
	M6.1	DETAIL SYMBOL
	M6.1	DRAWING NUMBER WHERE DETAIL IS SHOWN
	AHU	MECHANICAL EQUIPMENT ABBREVIATION
	T	MECHANICAL EQUIPMENT SYMBOL
	1	MECHANICAL EQUIPMENT NUMBER

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 REMODEL - PHASE 1**



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DRAWN: dHA+CALPEC  
 CHECKED: KC/AI  
 DATE: 03/21/17  
 JOB. NO. 15452

SHEET: MECHANICAL LEGEND,  
 TITLE: ABBREVIATIONS & SCHEDULES

SHEET

**M-001**

**GENERAL NOTES**

- A. GENERAL:**
- SCOPE OF THE PROJECT INCLUDES WORK SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS.
  - WORK SHOWN ON THE DRAWINGS IS INCLUSIVE, WHETHER SHOWN AT EACH LOCATION OR NOT, AS LONG AS IT IS SHOWN IN ONE LOCATION ON THE DRAWINGS OR IN THE SPECIFICATIONS WORK SHALL BE PROVIDED.
  - THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
  - THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY OF COORDINATION WITH VARIOUS TRADES AND INCLUDE TURNS, BENDS, ADDITIONAL LENGTHS OF DUCTS, PIPING AND ELEVATION CHANGES, AND TRANSITIONS WITHOUT ADDITIONAL COST TO THE OWNER.
  - THE CONTRACTOR MUST EXAMINE CONSTRAINTS AND THE AVAILABLE SPACE AT THE JOB SITE THAT MAY REQUIRE CUSTOM FABRICATION OR DISASSEMBLY AND RE-ASSEMBLY OF CERTAIN EQUIPMENT.
  - PROTECT MATERIALS INCLUDING DUCTS AND PIPES FROM DUST AND DEBRIS AND KEEP OPEN END OF PIPES AND DUCTS COVERED UNTIL READY FOR INSTALLATION OF NEXT SEGMENT OF WORK. LINED DUCTS THAT ARE DIRTY WILL NOT BE ACCEPTABLE.
  - WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED, REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING ADJACENT SURFACES IN TEXTURE, COLOR, AND FINISH.
  - CONTRACTOR TO SUBMIT SHOP DRAWINGS AND EQUIPMENT CUTS FOR REVIEW PRIOR TO INSTALLATION OF WORK.
  - AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER TO THE OWNER AND ARCHITECT COMPLETE AS-BUILT DRAWINGS SHOWING WORK AS ACTUALLY INSTALLED.
  - MECHANICAL EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA ENERGY CODE, CALIFORNIA PLUMBING CODE AND CALIFORNIA FIRE CODE.
  - INSULATION SHALL COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY CODE AND PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
  - AIR CONDITIONING UNITS SHALL BE CERTIFIED PER THE REQUIREMENTS OF THE CALIFORNIA ENERGY COMMISSION.
  - WORK TO BE INSTALLED OUTDOORS; INCLUDING, BUT NOT LIMITED TO; EQUIPMENT, DUCTS, PIPING, CONTROL DEVICES, SMOKE DETECTORS, AND VARIABLE FREQUENCY DRIVES SHALL BE COMPLETELY WEATHERPROOFED.
  - OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM OR 3'-0" BELOW ANY VENTS OR EXHAUST OUTLETS.
  - CURBS, ROOF JACKS AND EQUIPMENT SUPPORT PADS SHALL BE COMPATIBLE WITH ROOFING SYSTEM. FLASH AND COUNTERFLASH WEATHER EXPOSED ROOF OPENINGS. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FLASHING DETAILS.
  - CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS SHALL BE DONE ONLY WHEN SO DETAILED ON THE STRUCTURAL DRAWINGS. COORDINATE EXACT LOCATION OF CORE DRILLING, CUTTING OF FLOOR SLAB, OR WALLS OF THE BUILDING WITH THE STRUCTURAL DRAWINGS. DO NOT CUT OR DRILL HOLES IN ANY STRUCTURAL ELEMENT WITHOUT APPROVAL OF THE ARCHITECT.
  - COORDINATE TEMPERATURE SENSOR AND THERMOSTAT LOCATION WITH FLOOR ARCHITECTURAL AND FURNITURE FLOOR PLANS. TEMPERATURE SENSOR AND THERMOSTAT ELEVATION SHALL BE 46-INCH ABOVE FINISHED FLOOR AT CENTERLINE OF THE DEVICE AND IN COMPLIANCE WITH ADA.
  - ROOM THERMOSTATS SHALL HAVE THE CAPABILITY TO SEQUENCE HEATING AND COOLING, AND TO TERMINATE HEATING AT 70°F. THE HEATING SETPOINT MUST BE ADJUSTABLE DOWN TO 55°F OR HIGHER.
  - CONDITIONS THAT, IN THE CONTRACTOR'S OPINION, PREVENT THE EXECUTION OF THE WORK AS INTENDED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN THE FORM OF AN RFI BEFORE BEGINNING THE WORK IN QUESTION.
  - WORK PERFORMED UNDER THIS CONTRACT IS SUBJECT TO INSPECTION BY THE BUILDING OWNER, ARCHITECT, AND ENGINEER FOR CONFORMITY WITH EXISTING BUILDING SYSTEMS, QUALITY OF PRODUCTS AND INSTALLATION. CONTRACTOR SHALL NOT PERFORM WORK THAT MAY ADVERSELY AFFECT THE EXISTING BUILDING SYSTEMS OPERATION, EITHER DUE TO IMPROPER INSTALLATION, INADEQUATE COORDINATION OR POOR WORKMANSHIP. WORK INSPECTED AND FOUND UNACCEPTABLE BY THE OWNER, ARCHITECT SHALL BE PROMPTLY REPLACED OR CORRECTED AT NO ADDITIONAL COST.
  - FIELD OBSERVATION AND SUPPORT SERVICES PERFORMED BY THE ENGINEER PRIOR TO, DURING, OR AFTER CONSTRUCTION ARE FOR THE PURPOSE OF ACHIEVING QUALITY CONTROL AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
  - DUCTWORK AND PIPING PENETRATING SLAB TO SLAB PARTITIONS SHALL BE SEALED AIRTIGHT. A RESILIENT CAULKING AND PACKING SHALL BE USED. SEAL OPENINGS AROUND DUCTWORK AND PIPING PENETRATING FIRE RESISTIVE RATED WALLS AND FLOORS TO MAINTAIN RATING INTEGRITY.
  - PROVIDE ACCESS DOORS/PANELS REQUIRED FOR SERVICING LISTED ITEMS SUCH AS AIR TERMINAL UNITS, FIRE DAMPERS, COMBINATION SMOKE/FIRE DAMPERS, VOLUME DAMPERS, VALVES, AND DEVICES REQUIRING ACCESS WHETHER OR NOT SUCH ACCESS IS SHOWN ON DRAWINGS. COORDINATE EXACT LOCATION OF CEILING, WALL, OR FLOOR ACCESS PANELS WITH ARCHITECTURAL DRAWINGS.
  - IN THE EVENT THE CONTRACTOR ENCOUNTERS ASBESTOS OR ASBESTOS RELATED MATERIALS DURING PERFORMANCE OF WORK. WORK WITHIN THE AFFECTED AREA SHALL IMMEDIATELY STOP AND THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT. WORK WITHIN THE AFFECTED AREA SHALL NOT COMMENCE UNTIL ASBESTOS IS ABATED AND OWNER HAS GIVEN WRITTEN PERMISSION TO RESUME.

- B. EQUIPMENT:**
- A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.
  - INSTALL EQUIPMENT IN ACCESSIBLE LOCATION AND PROVIDE ADEQUATE SERVICE CLEARANCE FOR NORMAL MAINTENANCE WITHOUT REQUIRING REMOVAL OF MECHANICAL, ARCHITECTURAL, ELECTRICAL OR STRUCTURAL ELEMENTS.
  - FOR EQUIPMENT LOCATED ABOVE CEILING, INSTALL SUCH EQUIPMENT CLOSE ENOUGH TO THE CEILING ELEVATION TO FACILITATE READY ACCESS FOR MAINTENANCE AND SERVICING.
  - MAINTAIN A MINIMUM OF 42-INCH CLEAR IN FRONT OF VARIABLE FREQUENCY DRIVES.
  - AIR MOVING SYSTEMS SUPPLYING AIR 2,000-CFM OR MORE TO ENCLOSED SPACES WITHIN BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF VIA SMOKE DETECTOR.
  - VERIFY ELECTRICAL CHARACTERISTICS WITH ELECTRICAL DRAWINGS PRIOR TO BID, MATERIAL PURCHASE, AND INSTALLATION.
- C. DUCTWORK:**
- UNLESS OTHERWISE NOTED, DIMENSIONS FOR DUCTS, GRILLES, DAMPERS, ETC. ARE IN INCHES.
  - DUCTWORK DIMENSIONS ARE INSIDE FREE AREA.
  - DIMENSIONS OF ACOUSTICALLY LINED DUCTWORK AS SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS. INCREASE SIZE OF DUCT BY THICKNESS OF ACOUSTICAL LINING.
  - EXPOSED DUCTWORK IN CONDITIONED SPACE SHALL BE INTERNALLY LINED WHETHER SHOWN ON THE DRAWINGS OR NOT.
  - MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH 2016 CALIFORNIA MECHANICAL CODE.
  - DUCTWORK LOCATED IN SHAFTS OR ENCLOSURES SHALL BE PRESSURE TESTED PER REQUIREMENTS STATED IN THE SPECIFICATIONS PRIOR TO BEING CONCEALED.
  - FOR EXACT LOCATIONS OF DIFFUSERS AND GRILLES, SEE ARCHITECTURAL DRAWINGS.
  - COORDINATE THE CORRECT TYPE OF CEILING DIFFUSER AND GRILLES MARGINS TO BE INSTALLED WITH CEILING SUSPENSION SYSTEM TO BE USED.
  - PROVIDE BUTTERFLY DAMPERS FOR ROUND DUCTS AND OPPOSED BLADE DAMPERS FOR RECTANGULAR DUCTS FOR ALL BRANCH TAKEOFFS.
  - MANUAL VOLUME DAMPERS SHALL BE PROVIDED FOR EACH AND EVERY AIR INLET AND OUTLET. LOCATE MANUAL VOLUME DAMPER AT BRANCH TAKE OFF FOR THE OUTLET, OR AS FAR FROM THE OUTLET AS POSSIBLE.
  - PROVIDE MANUAL VOLUME DAMPERS DUCTS CONNECTING TO DUCT RISER AT EACH FLOOR. LOCATE DAMPERS NEAR (BUT NOT INSIDE) THE SHAFT ENCLOSURE.
  - PROVIDE MANUAL VOLUME DAMPER REMOTE REGULATOR FOR THE MANUAL VOLUME DAMPER LOCATED ABOVE INACCESSIBLE CEILING AND AT THE LOCATION NOT READILY ACCESSIBLE. REFER TO SPECIFICATIONS FOR TYPE AND FLOOR PLANS FOR LOCATIONS.
  - COMBINATION FIRE/SMOKE DAMPERS SHALL BE FIRE MARSHALL APPROVED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY.
  - PROVIDE DUCT ACCESS PANELS FOR COMBINATION FIRE/SMOKE DAMPERS.
  - PROVIDE DOUBLE RADIUS TURNING VANES IN RECTANGULAR 90° DUCT ELBOWS.
  - PROVIDE SPLITTER VANES IN RECTANGULAR RADIUS 90° DUCT ELBOWS WITH RADIUS TO WIDTH RATIO OF ONE OR LESS.
  - CIRCULAR METAL DUCTWORK SHALL BE SPIRAL WITH PRE-FABRICATED FITTINGS.
  - ROUND DUCT TAKEOFFS FROM RECTANGULAR DUCT SHALL BE MADE WITH FACTORY FABRICATED SPIN-IN OR CONICAL FITTINGS.
  - LOW PRESSURE FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 6-FOOT AND NOT LESS THAN 4-FOOT. USE OF MEDIUM PRESSURE FLEXIBLE DUCT AT INLET TO AIR TERMINAL UNITS IS NOT PERMITTED. MINIMUM RADIUS SHALL BE 1.5 TIMES DIAMETER OF DUCT.
  - PROVIDE NECESSARY PLENUMS OR TRANSITIONS FOR FLEXIBLE DUCT CONNECTIONS TO DIFFUSERS AND REGISTERS.
  - PROVIDE 1-INCH THICK ACOUSTICAL DUCT LINER INSIDE THE FIRST 50-FOOT (MINIMUM) OF THE DUCT LEAVING OR RETURNING TO AIR HANDLING UNIT.
  - SUPPLY DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE ALUMINUM IN SHOWER, TOILET, AND WHIRLPOOL ROOMS. EXHAUST DUCTS SERVING THESE ROOMS SHALL BE ALUMINUM DUCT. ALUMINUM DUCT SHALL BE SLOPED TOWARD GRILLES.
  - LOCATION OF POWER AND LOCAL DISCONNECTS FOR COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED ON ELECTRICAL DRAWINGS.
  - EXPOSED DUCTWORK AND FITTINGS IN SYSTEM DESIGNATED FOR PAINTING SHALL BE SANDED AND SEALED IN PREPARATION FOR PAINTING.
- D. PIPING:**
- PROVIDE HOSE END DRAIN VALVE ON PIPE STRAINERS.
  - LOCATE VALVES IN EASILY ACCESSIBLE LOCATIONS.
  - PROVIDE ISOLATING VALVES AND UNIONS ON PIPING ADJACENT TO CONTROL VALVES OR EQUIPMENT. LOCATE VALVES SO THE EQUIPMENT CAN BE REMOVED WITHOUT DISMANTLING BRANCH LINES.
  - BALANCING, FLOW, CONTROL AND AUTOMATIC FLOW LIMITERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED UPSTREAM AND DOWNSTREAM STRAIGHT PIPE LENGTHS.

- PROVIDE BALANCING VALVES WITH READOUT PORTS IN HYDRONIC PIPING CONNECTING TO PIPE RISERS AT EACH FLOOR. LOCATE VALVES NEAR (BUT NOT INSIDE) THE SHAFT ENCLOSURE.
  - INSTALL DRAIN VALVES AT LOW POINTS OF PIPING SYSTEM TO ENABLE COMPLETE DRAINAGE. PROVIDE AIR VENT AT EACH HIGH POINT IN THE PIPING SYSTEM.
  - SLOPE HYDRONIC PIPING FOR PROPER DRAINAGE AND ELIMINATION OF AIR.
  - PROVIDE CONDENSATE DRAIN PIPING WITH DRAINAGE FITTINGS FOR COOLING COILS AND ROUTE TO THE NEAREST APPROVED RECEPTOR.
  - SIZE REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS. PROVIDE NECESSARY RISER TRAPS AS REQUIRED TO ENSURE PROPER RETURN OF REFRIGERANT.
- E. REMODEL:**
- DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR PROMPT DAILY REMOVAL FROM THE SITE. REMOVE DEBRIS FROM THE SITE RESULTING FROM THE WORK AT THE CONCLUSION OF DAILY CONSTRUCTION. REMOVE TEMPORARY CONSTRUCTION FROM THE SITE. THE AREA OF THE SITE SHALL BE LEFT BROOM CLEAN. IF NOT, UPON NOTIFICATION, OWNER WILL PERFORM NECESSARY CLEAN-UP WORK AND BACK CHARGE THE CONTRACTOR FOR THE EXPENSE THUS INCURRED.
  - MODIFICATIONS AND ADDITIONS TO THE HVAC SYSTEM AS INDICATED ON THE CONTRACT DRAWINGS ARE BASED UPON THE BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED APPROXIMATE AND INCOMPLETE. BEFORE WORK IS STARTED, VERIFY AND COORDINATE ELEVATIONS, SIZES, AND POINTS OF CONNECTION FOR EXISTING HVAC SYSTEMS. DISCREPANCIES BETWEEN FIELD DATA AND DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT. DO NOT PROCEED WITH INSTALLATION IN AREA OF DISCREPANCIES UNTIL RESOLVED.
  - THE WORK TO BE PERFORMED UNDER THIS CONTRACT MUST MATCH THE EXISTING SYSTEM, EQUIPMENT, PRODUCT, AND INSTALLATION QUALITY, UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
  - EXERCISE CAUTION DURING PHASES OF THE WORK TO LOCATE, IDENTIFY AND PROTECT EXISTING DUCTWORK AND PIPING THAT ARE TO REMAIN. MAINTAIN SERVICES TO EXISTING OCCUPIED AREAS OR PROVIDE TEMPORARY SERVICES AS REQUIRED.
  - WORK SCHEDULE SHALL BE BASED UPON MINIMIZING DISRUPTIONS TO EXISTING BUILDING OPERATION.
  - CONTRACTOR SHALL PROVIDE DUST BARRIERS AS REQUIRED TO PREVENT CONTAMINATION OF THE EXISTING BUILDING FROM DUST AND DEBRIS. STATIC FREE DUST BARRIERS FORMED WITH PLASTIC SHEETS SHALL BE PROVIDED (USING FACILE OR GRIFFOLYN WITH FIRE RATING) WITH THE APPROVAL OF THE CONSTRUCTION MANAGER.
  - REMOVE DISCONNECTED OR ABANDONED PORTIONS OF EXISTING PIPING AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
- F. BALANCING:**
- TOTAL SYSTEM WATER AND AIR BALANCE SHALL BE PERFORMED BY AN AGENCY APPROVED BY THE OWNER'S REPRESENTATIVE. WORK DONE BY THIS AGENCY SHALL BE BY A QUALIFIED TECHNICIANS UNDER THE DIRECT SUPERVISION OF A CERTIFIED TEST AND BALANCE ENGINEER.
  - TOTAL SYSTEM BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE TEST AGENCY STANDARDS.
  - TOTAL SYSTEM BALANCE SHALL NOT BEGIN UNTIL SYSTEMS ARE COMPLETE.
  - TOTAL BALANCING SHALL BE DONE BY AN AABC OR NEBB CERTIFIED FIRM.
  - REPLACE DRIVES AND BELTS AS REQUIRED TO OBTAIN SPECIFIED CFM. BALANCING REPORT SHALL INCLUDE CFM, GPM, STATIC PRESSURES AND TEMPERATURES AS A MINIMUM.

**MEP COMPONENT ANCHORAGE NOTE**

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 29 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR SEWER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITELY ATTACHED TO THE STRUCTURE, BUT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUND AND HAVE A CENTER OF MASS LOCATED 4 FEET LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

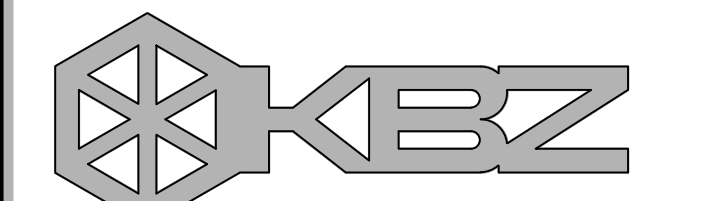
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM#)

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

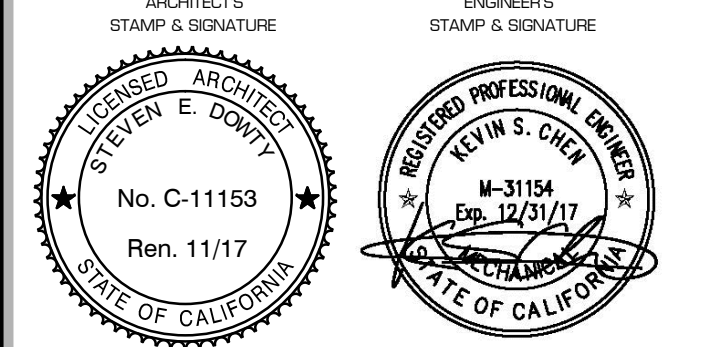
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**REMODEL - PHASE 1**



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**STEVE DOWTY**  
 MECHANICAL ENGINEER

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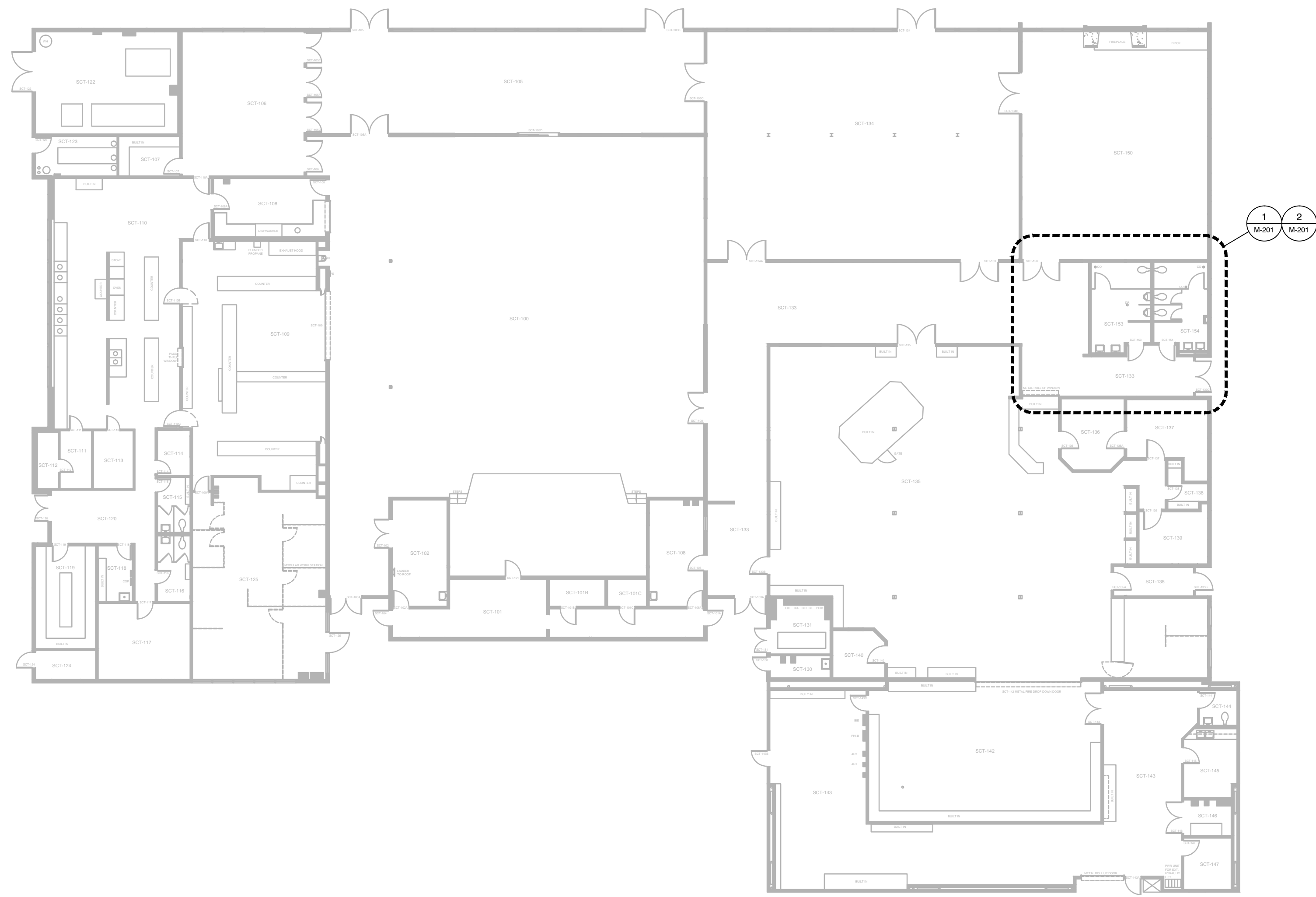
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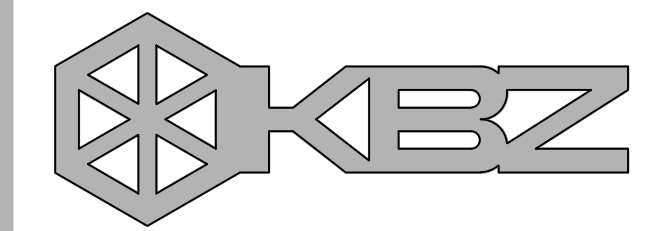
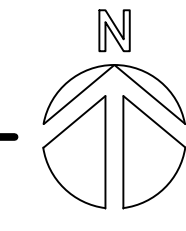
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CHECKED	KC/AL		
DATE	03/21/17		
JOB. NO.	15452		
SHEET	MECHANICAL GENERAL NOTES & SERVIC BRACING NOTES		
TITLE			

**M-002**



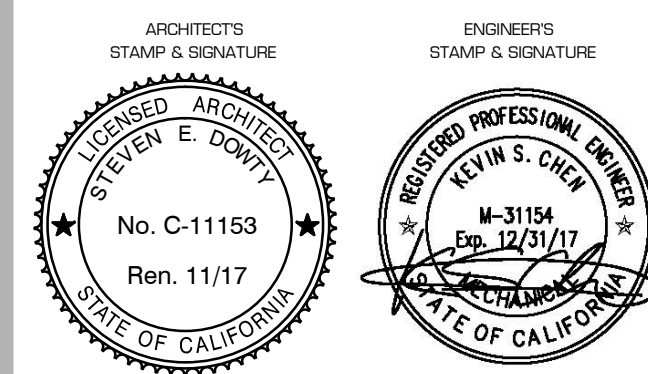
1 SCT BUILDING FLOOR PLAN  
SCALE : 1/16" = 1'-0"



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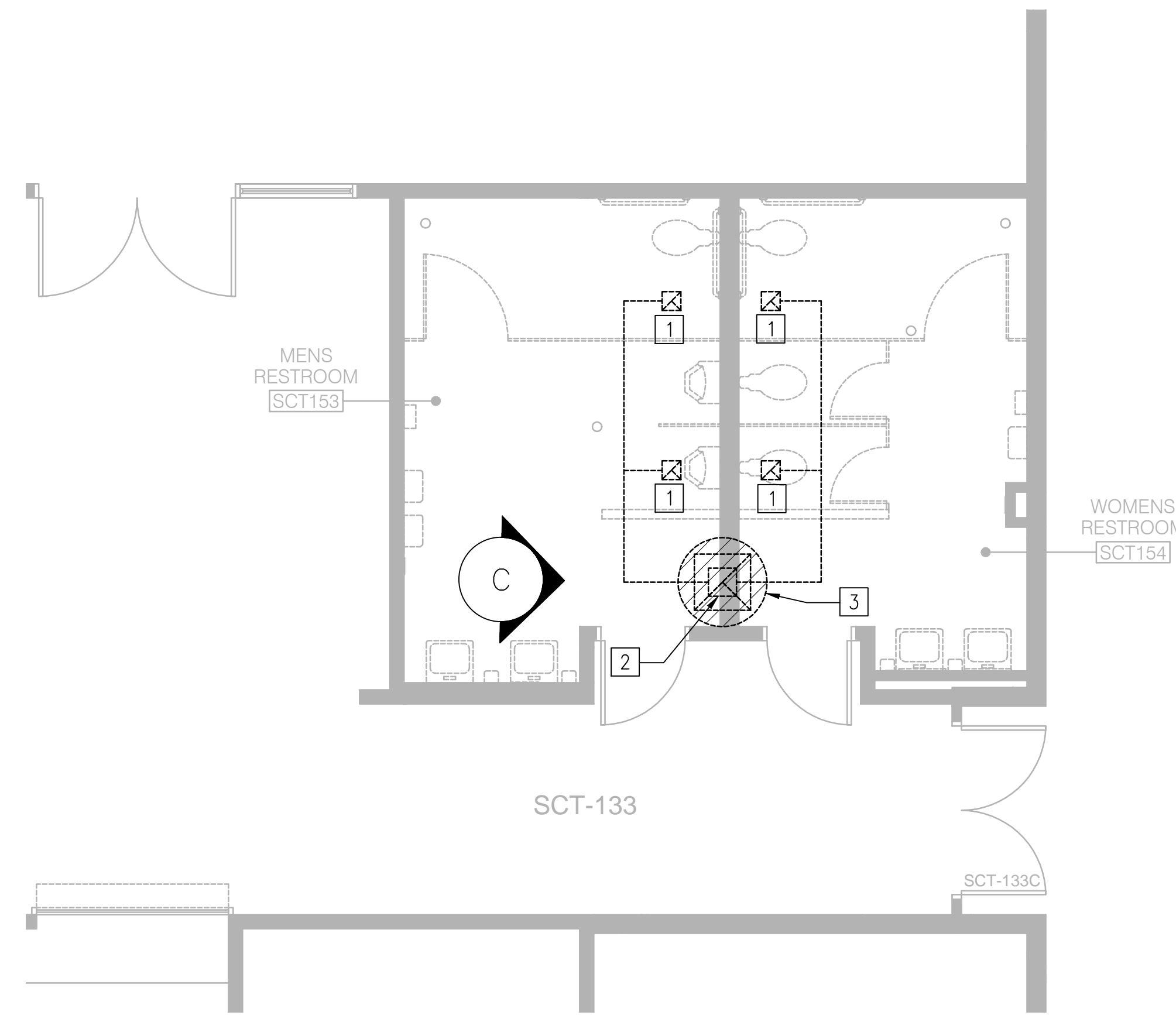
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CHECKED: KC/AI  
DATE: 03/21/17  
JOB. NO. 15452  
SHEET TITLE: BUILDING PLAN - WORK AREA

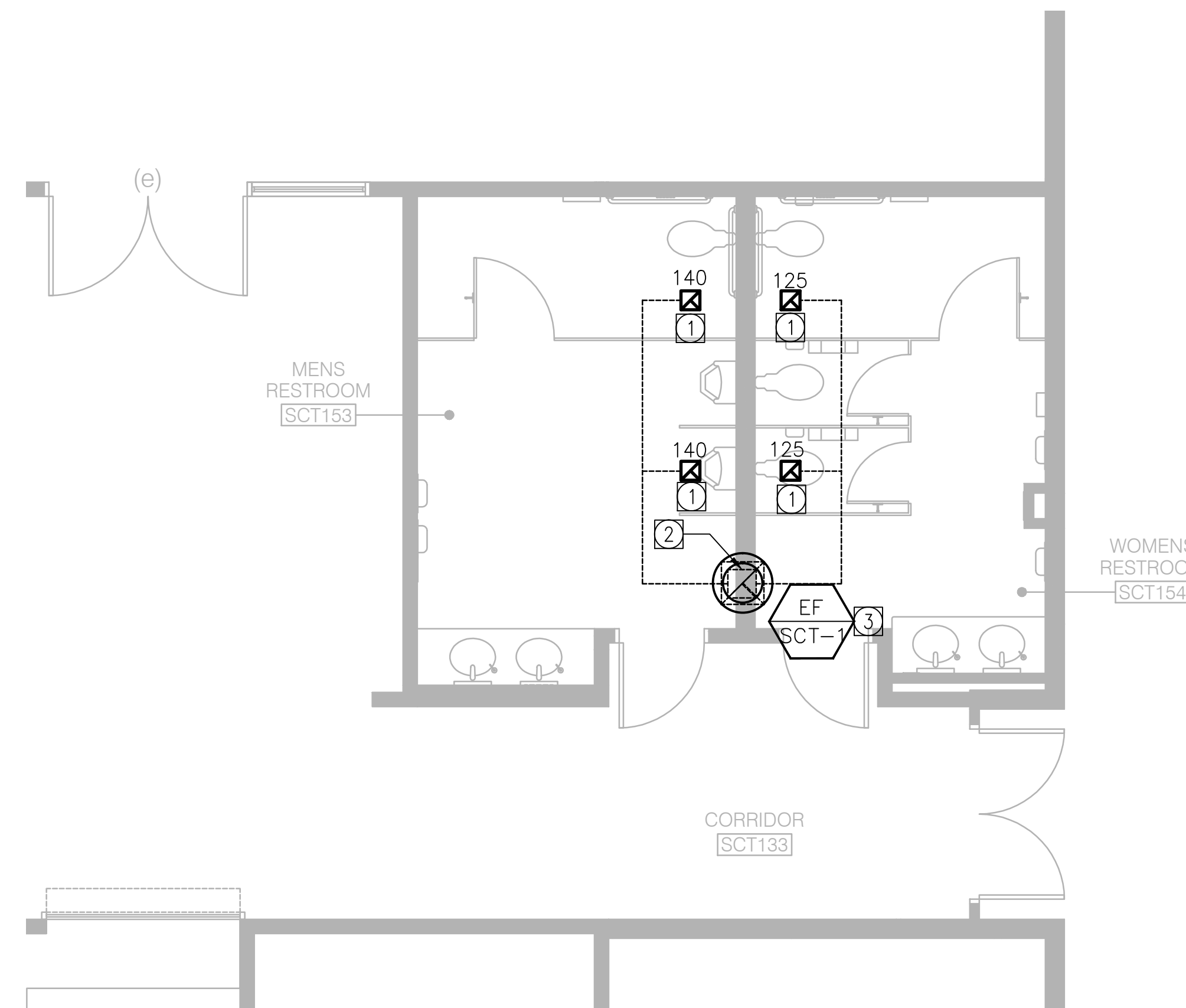


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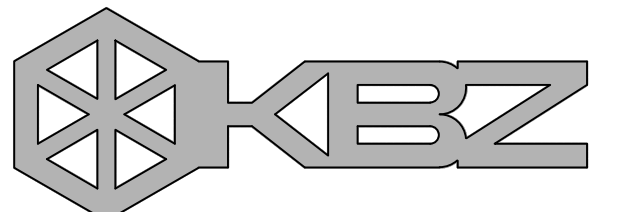
- REFERENCE NOTES**
- 1 REMOVE (E)EXHAUST AIR GRILL.
  - 2 (E)EXHAUST DUCT UP TO EXHAUST FAN ON THE ROOF TO REMAIN.
  - 3 REMOVE (E)EXHAUST FAN, ROOF CURB, ASSOCIATED ELECTRICAL COMPONENT.
- EXACT SIZE, ELEVATION, & LOCATION OF EXISTING SHALL BE FIELD VERIFIED.

1 SCT RESTROOMS - DEMOLITION PLAN  
SCALE : 1/4" = 1'-0"



- REFERENCE NOTES**
- 1 (N)EXHAUST AIR GRILL.
  - 2 (E)EXHAUST DUCT UP TO EXHAUST FAN ON THE ROOF TO REMAIN.
  - 3 (N)EXHAUST FAN ON THE ROOF WITH 8" HIGH ROOF CURB. REFER TO STRUCTURAL DRAWINGS FOR THE MOUNTING DETAIL.
- EXACT SIZE, ELEVATION, & LOCATION OF EXISTING SHALL BE FIELD VERIFIED.

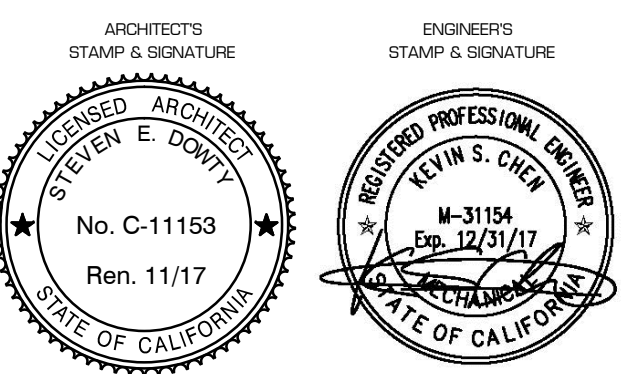
2 SCT RESTROOMS - MECHANICAL PLAN  
SCALE : 1/4" = 1'-0"



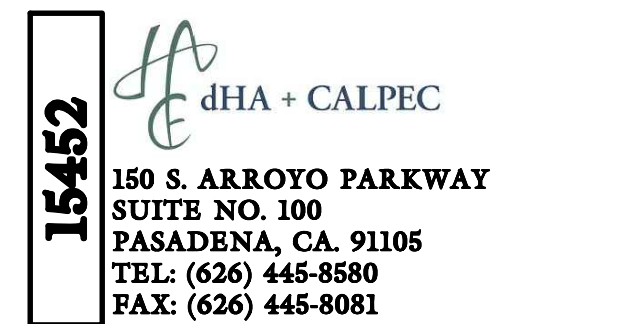
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CONSULTANT INFORMATION



REVISION	DESCRIPTION	DATE	BY
△	-	-/-	XX
△	-	-/-	XX
△	-	-/-	XX
△	-	-/-	XX
△	-	-/-	XX

DRAWN: dHA+CALPEC  
CHECKED: KC/AI  
DATE: 03/21/17  
JOB. NO. 15452

SHEET: SCT BUILDINGS DEMO &  
TITLE: REMODEL PLANS

**PIPING MATERIAL SPECIFICATIONS**

**PIPING SYSTEMS**

- 2 TO 6 INCH SEWER, WASTE AND VENT PIPING BELOW GROUND; HUB AND SPIGOT CAST IRON SOIL PIPE, HUB AND SPIGOT CAST IRON SOIL PIPE FITTINGS NEOPRENE RUBBER GASKETS AND COMPRESSION FITTINGS.
- 2 TO 4 INCH SEWER, WASTE AND VENT PIPING ABOVE GROUND; HUBLESS CAST IRON SOIL PIPE, HUBLESS CAST IRON SOIL PIPE FITTINGS, CISPI-TYPE COUPLINGS FOR HUBLESS CAST IRON SOIL PIPE AND FITTINGS AND HUBLESS JOINTS.
- WATER DISTRIBUTION PIPING ABOVE GRADE OR SLAB. (COMPLY WITH CPC 609.3.2)
  - 4 TO 6 INCH: HARD COPPER TUBE TYPE "L"; WROT COPPER AND BRONZE GROOVED END, COPPER TUBE AND GROOVED END, COPPER FITTINGS AND GROOVED COPPER TUBE AND GROOVED TUBE FITTINGS JOINTS.
  - HOT WATER, HOT WATER RETURN AND TEMPERED WATER SHALL BE INSULATED AS REQUIRED. ALL CONDENSATE AND INDIRECT DRAIN PIPING WHEN LOCATED ABOVE CEILING SHALL BE INSULATED.
- 3 INCH AND SMALLER: HARD COPPER TUBE "L"; WROT COPPER OR CAST COPPER ALLOY PRESSURE FITTINGS; COPPER UNIONS; BRONZE FLANGES; AND SOLDER JOINTS WITH ALLOY NO LEAD.
- WATER DISTRIBUTION PIPING BELOW GROUND. (COMPLY WITH CPC 609.3.2)
  - 3/4 INCH AND LARGER: SOFT COPPER TUBE, TYPE "K"; CAST COPPER ALLOY NO LEAD.

- SCOPE OF THE PROJECT INCLUDES WORK SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- WORK SHOWN ON THE DRAWINGS IS INCLUSIVE, WHETHER SHOWN AT EACH LOCATION OR NOT, AS LONG AS IT IS SHOWN IN ONE LOCATION ON THE DRAWINGS OR IN THE SPECIFICATIONS WORK SHALL BE PROVIDED.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY OF COORDINATION WITH VARIOUS TRADES AND INCLUDE TURNS, BENDS, ADDITIONAL LENGTHS OF PIPING AND ELEVATION CHANGES, AND TRANSITIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR MUST EXAMINE CONSTRAINTS AND THE AVAILABLE SPACE AT THE JOB SITE THAT MAY REQUIRE CUSTOM FABRICATION OR DISASSEMBLY AND RE-ASSEMBLY OF CERTAIN EQUIPMENT.
- PROTECT MATERIALS INCLUDING PIPES FROM DUST AND DEBRIS AND KEEP OPEN END OF PIPES COVERED UNTIL READY FOR INSTALLATION OF NEXT SEGMENT OF WORK.
- WORK AND EXISTING CONDITIONS DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED, REPAIRED, PAINTED AND FINISHED TO MATCH ADJACENT SURFACES IN TEXTURE, COLOR, AND FINISH.
- AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER TO THE OWNER AND ARCHITECT COMPLETE AS-BUILT DRAWINGS SHOWING WORK AS ACTUALLY INSTALLED.
- PLUMBING EQUIPMENT, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA ENERGY CODE, CALIFORNIA PLUMBING CODE AND CALIFORNIA FIRE CODE.
- INSULATION SHALL COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY CODE AND PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- WORK TO BE INSTALLED OUTDOORS; INCLUDING, BUT NOT LIMITED TO: EQUIPMENT, PIPING, AND CONTROL DEVICES SHALL BE COMPLETELY WEATHERPROOFED.
- VENTS SHALL BE A MINIMUM OF 10'-0" AWAY FROM OR 3'-0" ABOVE ANY OUTSIDE AIR INTAKES.
- PIPE PENETRATIONS, ROOF JACKS AND EQUIPMENT SUPPORT PADS SHALL BE COMPATIBLE WITH ROOFING SYSTEM. FLASH AND COUNTERFLASH WEATHER EXPOSED ROOF OPENINGS. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FLASHING DETAILS.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS SHALL BE DONE ONLY WHEN SO DETAILED ON THE STRUCTURAL DRAWINGS. COORDINATE EXACT LOCATION OF CORE DRILLING, CUTTING OF FLOOR SLAB, OR WALLS OF THE BUILDING WITH THE STRUCTURAL DRAWINGS. DO NOT CUT OR DRILL HOLES IN ANY STRUCTURAL ELEMENT WITHOUT APPROVAL OF THE ARCHITECT.
- CONDITIONS THAT, IN THE CONTRACTOR'S OPINION, PREVENT THE EXECUTION OF THE WORK AS INTENDED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN THE FORM OF AN RFI BEFORE BEGINNING THE WORK IN QUESTION.
- WORK PERFORMED UNDER THIS CONTRACT IS SUBJECT TO INSPECTION BY THE BUILDING OWNER, ARCHITECT, AND ENGINEER FOR CONFORMITY WITH EXISTING BUILDING SYSTEMS, QUALITY OF PRODUCTS AND INSTALLATION. CONTRACTOR SHALL NOT PERFORM WORK THAT MAY ADVERSELY AFFECT THE EXISTING BUILDING SYSTEMS OPERATION, EITHER DUE TO IMPROPER INSTALLATION, INADEQUATE COORDINATION OR POOR WORKMANSHIP. WORK INSPECTED AND FOUND UNACCEPTABLE BY THE OWNER, ARCHITECT SHALL BE PROMPTLY REPLACED OR CORRECTED AT NO ADDITIONAL COST.
- FIELD OBSERVATION AND SUPPORT SERVICES PERFORMED BY THE ENGINEER PRIOR TO, DURING, OR AFTER CONSTRUCTION ARE FOR THE PURPOSE OF ACHIEVING QUALITY CONTROL AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- PROVIDE ACCESS DOORS/PANELS REQUIRED FOR SERVICING LISTED ITEMS SUCH AS VALVES, PIPE CLEANOUTS AND DEVICES REQUIRING ACCESS WHETHER OR NOT SUCH ACCESS IS SHOWN ON DRAWINGS. COORDINATE EXACT LOCATION OF CEILING, WALL, OR FLOOR ACCESS PANELS WITH ARCHITECTURAL DRAWINGS. ACCESS PANELS FOR VALVES AND PIPE CLEANOUTS ABOVE CEILINGS SHALL BE A MINIMUM OF 18-INCH BY 18-INCH.
- PLUMBING FIXTURES OR FITTINGS INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION WHICH CONTAIN MORE THAN 25% LEAD ARE NOT PERMITTED TO BE SOLD OR INSTALLED ANYWHERE WITHIN THE STATE OF CALIFORNIA. THESE DEVICES SHALL BE LISTED TO ANNEX 6 OF NSF/ANSI 61-2008 OR OTHER APPROVED TESTING STANDARD. EVIDENCE OF COMPLIANCE SHALL BE PRESENTED TO THE BUILDING INSPECTOR PRIOR TO FINAL INSPECTION (AB1953).
- SHUTDOWN OF UTILITIES REQUIRED TO PERFORM WORK SHALL BE COORDINATED WITH THE OWNER.
- ALL HOSE BIBBS AND FAUCETS CONNECTED TO NON-POTABLE WATER LINES SHALL BE POSTED WITH SIGN THAT READ "CAUTION: NON-POTABLE WATER, DO NOT DRINK".

**GENERAL NOTES**

**A. GENERAL:**

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- ALL HOSE BIBBS AND FAUCETS CONNECTED TO NON-POTABLE WATER LINES SHALL BE POSTED WITH SIGN THAT READ "CAUTION: NON-POTABLE WATER, DO NOT DRINK".

**B. EQUIPMENT AND FIXTURES:**

- MANUFACTURERS AND MODEL NUMBERS SHOWN ON EQUIPMENT AND FIXTURES SCHEDULES HAVE BEEN UTILIZED FOR DESIGN. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS AND/OR EQUIVALENTS.
- A MAINTENANCE LABEL SHALL BE AFFIXED TO PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.
- INSTALL EQUIPMENT IN ACCESSIBLE LOCATION AND PROVIDE ADEQUATE SERVICE CLEARANCE FOR NORMAL MAINTENANCE WITHOUT REQUIRING REMOVAL OF MECHANICAL, ARCHITECTURAL, ELECTRICAL OR STRUCTURAL ELEMENTS.
- FOR EQUIPMENT LOCATED ABOVE CEILING, INSTALL SUCH EQUIPMENT CLOSE ENOUGH TO THE CEILING ELEVATION TO FACILITATE READY ACCESS FOR MAINTENANCE AND SERVICING.
- VERIFY ELECTRICAL CHARACTERISTICS WITH ELECTRICAL DRAWINGS PRIOR TO BID, MATERIAL PURCHASE, AND INSTALLATION.
- DRINKING FOUNTAINS SHALL BE INSTALLED AND REGULATED THAT A JET OF WATER EXTENDING AT LEAST 2" FROM THE WATER ORIFICE SHALL BE CONSTANTLY AVAILABLE. THE ORIFICE SHALL NOT BE ACCESSIBLE TO THE MOUTH OF THE DRINKER NOR SUBJECT TO IMMERSION.

**GENERAL NOTES**

**C. PIPING:**

- PIPING PENETRATING SLAB TO SLAB PARTITIONS SHALL BE SEALED AIRTIGHT. A RESILIENT CAULKING AND PACKING SHALL BE USED. SEAL ALL OPENINGS AROUND PIPING PENETRATING FIRE RESISTIVE RATED WALLS AND FLOORS TO MAINTAIN RATING INTEGRITY.
- PIPING SHALL BE TESTED PER REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- LOCATE VALVES IN EASILY ACCESSIBLE LOCATIONS.
- PROVIDE ISOLATING VALVES AND UNIONS ON PIPING ADJACENT TO EQUIPMENT. LOCATE VALVES SO THE EQUIPMENT CAN BE REMOVED WITHOUT DISMANTLING BRANCH LINES.
- CIRCUIT SETTERS AND BALANCING VALVES FOR HOT WATER RETURN SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED UPSTREAM AND DOWNSTREAM STRAIGHT PIPE LENGTHS.
- REFER TO MECHANICAL DRAWINGS FOR CONDENSATE DRAIN PIPING.
- CLEANOUTS SHALL BE PROVIDED ON WASTE PIPING AS REQUIRED BY CALIFORNIA PLUMBING CODE AND WHERE INDICATED ON THE DRAWINGS. PROVIDE CLEARANCE IN FRONT OF CLEANOUTS AS REQUIRED BY CODE AS MINIMUM.
- BURRED ENDS OF PIPING AND TUBING SHALL BE REAMED TO THE FULL BORE OF THE PIPE OR TUBE AND CHIPS SHALL BE REMOVED PER CALIFORNIA PLUMBING CODE. ADDITIONALLY, TOOLS USED IN CUTTING OR REAMING SHALL BE KEPT FREE FROM OIL OR GREASE. WHERE SUCH CONTAMINATION HAS OCCURRED, THE AFFECTED SHALL BE REWORKED AND RINSED PER NFPA 56-F-5.1-1.
- PIPING BELOW GRADE SHALL BE INSTALLED WITH NOT LESS THAN 24-INCH BETWEEN TOP OF PIPE AND FINISHED GRADE.
- WASTE AND VENT PIPING SHALL BE INSTALLED AT 1/4-INCH PER FOOT (2%) SLOPE UNLESS OTHERWISE NOTED.
- CONNECTIONS BETWEEN PIPING OF DISSIMILAR METALS SHALL BE MADE WITH BRASS UNIONS AND BRASS FLANGED FITTINGS.

**MEP COMPONENT ANCHORAGE NOTE**

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 29 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR SEWER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITELY ATTACHED TO THE STRUCTURE, BUT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUND AND HAVE A CENTER OF MASS LOCATED 4 FEET LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

**PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.6, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM#)

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

**PLUMBING PIPE TYPE LEGEND**

SYMBOL	FLUID ABBREV.	DESCRIPTION
	W	WASTE PIPING
	W	WASTE PIPING BELOW FLOOR OR GRADE
	V	VENT PIPING
	AW	ACID WASTE PIPING
	AW	ACID WASTE PIPING BELOW FLOOR OR GRADE
	AV	ACID VENT PIPING
	CW	POTABLE COLD WATER PIPING BELOW FLOOR OR GRADE
	HW	POTABLE HOT WATER PIPING (ABOVE 110°F)
	HW	POTABLE HOT WATER PIPING BELOW FLOOR OR GRADE
	HWR	POTABLE HOT WATER RETURN PIPING BELOW FLOOR OR GRADE
	TP	TRAP PRIMER WATER SUPPLY PIPING BELOW FLOOR OR GRADE
	TW	POTABLE TEMPERED WATER (85°F TO 110°F)
	ICW	INDUSTRIAL COLD WATER
	IHW	INDUSTRIAL HOT WATER

**PLUMBING ABBREVIATIONS**

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
A	AMPS	AMPERES	
ABV	ABOVE		
AD	ACCESS DOOR		
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE		
AFS	AUTOMATIC FIRE SPRINKLER		
AP	ACCESS PANEL		
ARCH	ARCHITECTURAL		
AUTO	AUTOMATIC		
BEH	BEHIND		
BEL	BELOW		
BFG	BELOW FINISHED GRADE		
BHP	BRAKE HORSEPOWER		
BTUH	BRITISH THERMAL UNITS PER HOUR		
C.C.	CENTER TO CENTER		
CD	CONDENSATE DRAIN		
CFH	CUBIC FEET PER HOUR		
CLG	CEILING		
COMP	COMPRESSOR		
CONC	CONCRETE		
CONN	CONNECTION		
CP	CIRCULATING PUMP		
CTR	COUNTER		
CV	CHECK VALVE		
D	DRAIN		
DF	DRINKING FOUNTAIN		
DN	DOWN		
DWGS	DRAWINGS		
EX, EXIST	EXISTING		
EA	EACH		
ESEW	EMERGENCY SHOWER EYE WASH		
EWC	ELECTRIC WATER COOLER		
ELECT	ELECTRICAL		
ELEV	ELEVATION		
ENCL	ENCLOSURE		
F	DEGREES FAHRENHEIT		
FD	FLOOR DRAIN		
FDC	FIRE DEPARTMENT CONNECTION		
FF	FINISHED FLOOR		
FLA	FULL LOAD AMPS		
FLEX	FLEXIBLE		
FLR	FLOOR		
FR	FROM		
FS	FLOOR SINK		
FT	FOOT		
FUT	FUTURE		
FV	FLUSH VALVE		
GAL	GALLON		
CC	GAS COCK		
CV	GAS VALVE (TURRET)		
GSV	GAS SHUT-OFF VALVE		
GPF	GALLONS PER FLUSH		
GPM	GALLONS PER MINUTE		
H	HEIGHT		
HB	HOSE BIBB		
HP	HORSEPOWER		
HR	HOUR		
HZ	HERTZ		
IN	INCH		
KW	KILOWATT		
L	LENGTH		
LAV	LAVATORY		
LBS	POUNDS		
MAX	MAXIMUM		
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
MCA	MINIMUM CIRCUIT AMPACITY		
MFR	MANUFACTURER		
MIN	MINIMUM		
MOCP	MAXIMUM OVERCURRENT PROTECTION		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
NIC	NOT IN CONTRACT		
NO.	NUMBER		
OC	ON CENTER		
OC	OWNER FURNISHED AND CONTRACTOR INSTALLED		
OPNG	OPENING		
OP.	OPERATING		
PD	PRESSURE DROP		
PH	PHASE		
PV	POST INDICATOR VALVE		
PR.	PRESSURE		
PSI	POUND PER SQUARE INCH		
QTY	QUANTITY		
RPM	REVOLUTIONS PER MINUTE		
SF.	SQUARE FEET		
SK	SINK		
SKT	SINK TRIM		
SOV	SHUT-OFF VALVE		
SPEC(S)	SPECIFICATIONS		
SS	SERVICE SINK		
SW	SWITCH		
T	TRANSFORMER		
TMV	THERMOSTATIC MIXING VALVE		
TP	TRAP PRIMER		
TYP	TYPICAL		
UG	UNDERGROUND		
UL	UNDERWRITER'S LABORATORY		
UNLESS OTHERWISE NOTED			
UO	UNDER OTHER SECTION OF SPECIFICATIONS		
UR	URINAL		
UTR	UP THRU ROOF		
V	VOLTS		
VB	VACUUM BREAKER		
VO	VENT OFFSET		
VR	VENT RISER		
W	WIDTH		
W/	WITH		
WC	WATER CLOSET		
WCS	SECURITY WATER GAUGE		
WH	WATER HEATER		
W/O	WITHOUT		
WP	WEATHER PROOF		
WT	WEIGHT		
WTR	WATER		
YB	YARD BOX		

**PLUMBING SYMBOL LEGEND**

SYMBOL	ABBREV.	DESCRIPTION
	(E)	EXISTING TO REMAIN (XX INDICATES FLUID ABBREVIATION, REFER TO PLUMBING PIPE TYPE LEGEND)
	(N)	EXISTING TO BE REMOVED (XX INDICATES FLUID ABBREVIATION, REFER TO PLUMBING PIPE TYPE LEGEND)
	(N)	NEW WORK (XX INDICATES FLUID ABBREVIATION, REFER TO PLUMBING PIPE TYPE LEGEND)
		FLOW IN DIRECTION OF ARROW
		PIPE ELBOW DOWN OR AWAY FROM VIEWER
		PIPE ELBOW UP OR TOWARD VIEWER
		PIPE TEE DOWN OR AWAY FROM VIEWER
		PIPE TEE UP OR TOWARD VIEWER
		ANCHOR
	BFP	BACKFLOW PREVENTOR (REFER TO DRAWINGS FOR TYPE)
		BALL VALVE
		BUTTERFLY VALVE
	CBV	CALIBRATED BALANCE VALVE
		CAPPED PIPE END
		CHECK VALVE
	FCO	CLEAN-OUT (FLOOR)
	COTG	CLEAN-OUT TO GRADE
	WCO	CLEAN-OUT (WALL)
		CONCENTRIC REDUCER
	EJ	EXPANSION JOINT
		FLANGE
		FLEXIBLE PIPING CONNECTION
	FSW	FLOW SWITCH
		GATE VALVE
		GLOBE VALVE
		PIPE SUPPORT
		PLUG VALVE
	PT	PRESSURE AND TEMPERATURE TEST PORT
	PG	PRESSURE GAUGE
	PRV	PRESSURE REGULATING VALVE
		PRESSURE RELIEF VALVE
	P&TR	PRESSURE AND TEMPERATURE RELIEF VALVE
		PUMP
		SOLENOID VALVE
		STRAINER
		THERMOMETER IN PIPING
		UNION
		VALVE IN PIPE RISER DOWN OR AWAY FROM VIEWER
	VTR	VENT THROUGH ROOF
	WHA	WATER HAMMER ARRESTOR (LOCATE BEHIND ACCESS PANEL)
	AVTR	ACID VENT THROUGH ROOF
	BLV	BALANCING VALVE

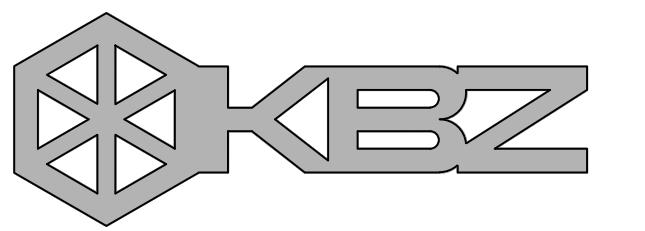
**PLUMBING NOTATION LEGEND**

SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT OR DEMOLITION
		SHEET KEY NOTES DEMOLITION
		SHEET KEY NOTES NEW WORK
	DIA	DIAMETER
		DETAIL NUMBER</

**PLUMBING FIXTURE SCHEDULE**

SYMBOL	FIXTURE	BRANCH CONNECTION					CARRIER	REMARKS
		TRAP	WASTE	VENT	HW	CW		
WC 1	WATER CLOSET FLOOR MOUNTED	INTEGRAL	4"	2"	-	1-1/2"	-	"AMERICAN STANDARD" MADERA FLOWISE MODEL 2234.001 VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, 15" HEIGHT, WITH #6065.121.002 BATTERY OPERATED SENSOR FLUSH VALVE, 1.28 GPF AND #5901.100 HEAVY DUTY OPEN FRONT LESS COVER SEAT.
WC 2	WATER CLOSET FLOOR MOUNTED - A.D.A.	INTEGRAL	4"	2"	-	1-1/2"	-	"AMERICAN STANDARD" MADERA FLOWISE MODEL 3461.001 VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, 16.5" HEIGHT, WITH #6065.121.002 BATTERY OPERATED SENSOR FLUSH VALVE, 1.28 GPF AND #5901.100 HEAVY DUTY OPEN FRONT LESS COVER SEAT.
UR 1	URINAL WALL HUNG	INTEGRAL	2"	1-1/2"	-	-	"J. R. SMITH" 0635 WALL SUPPORT	"WATERLESS COMPANY" MODEL NO. 2102 WATERLESS VITREOUS CHINA, WHITE. PROVIDE 1-1/2" CW CONNECTION IN WALL AS REQUIRED BY 2013 CALIFORNIA PLUMBING CODE. PROVIDE WALL CLEANOUT BEHIND A.P. ABOVE URINAL.
UR 2	URINAL WALL HUNG - A.D.A.	INTEGRAL	2"	1-1/2"	-	-	"J. R. SMITH" 0635 WALL SUPPORT	"WATERLESS COMPANY" MODEL NO. 2102 WATERLESS VITREOUS CHINA, WHITE. PROVIDE 1-1/2" CW CONNECTION IN WALL AS REQUIRED BY 2013 CALIFORNIA PLUMBING CODE. PROVIDE WALL CLEANOUT BEHIND A.P. ABOVE URINAL. MOUNT PER A.D.A REQUIREMENTS.
L 1	LAVATORY	1-1/2" CP 17 GA. CAST BRASS	2"	1-1/2"	-	3/4"	-	"AMERICAN STANDARD" OVALYN MODEL NO. 9482.000, UNDERCOUNTER MOUNTED, VITREOUS CHINA, WITH "TECHNICAL CONCEPTS" MILANO AUTOFAUCET #500615, KIT 4 INCLUDES: SPOUT, VALVE CONTROL MODULE, SUPPLY HOSES AND MAIN SUPPLY HOSE WITH 0.5 GPM FLOW CONTROL. PROVIDE WITH "CHICAGO FAUCETS" #1013-ABCP LOOSE KEY ANGLE STOP AND #327-ACDCP DRAIN GRID STRAINER WASTE, P-TRAP. INSTALL IN ACCORDANCE WITH ADA REQUIREMENTS. PROVIDE "TRUEBRO" INSULATING KIT FOR TRAP, TRAP ARM AND SUPPLIES.

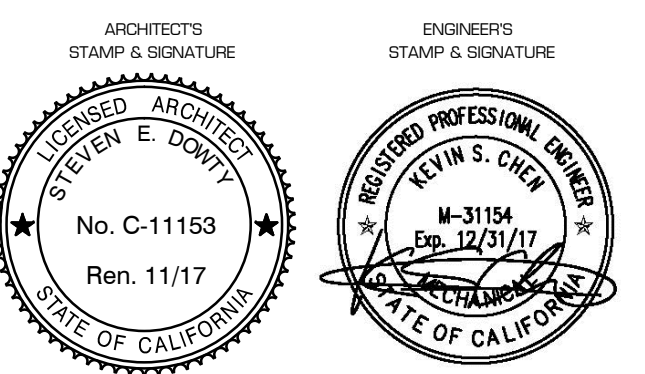
ANTELOPE VALLEY COMMUNITY COLLEGE  
3001 WEST AVENUE K, LANDCASTER CA 95709  
**CAMPUS RESTROOM  
REMODEL - PHASE 1**



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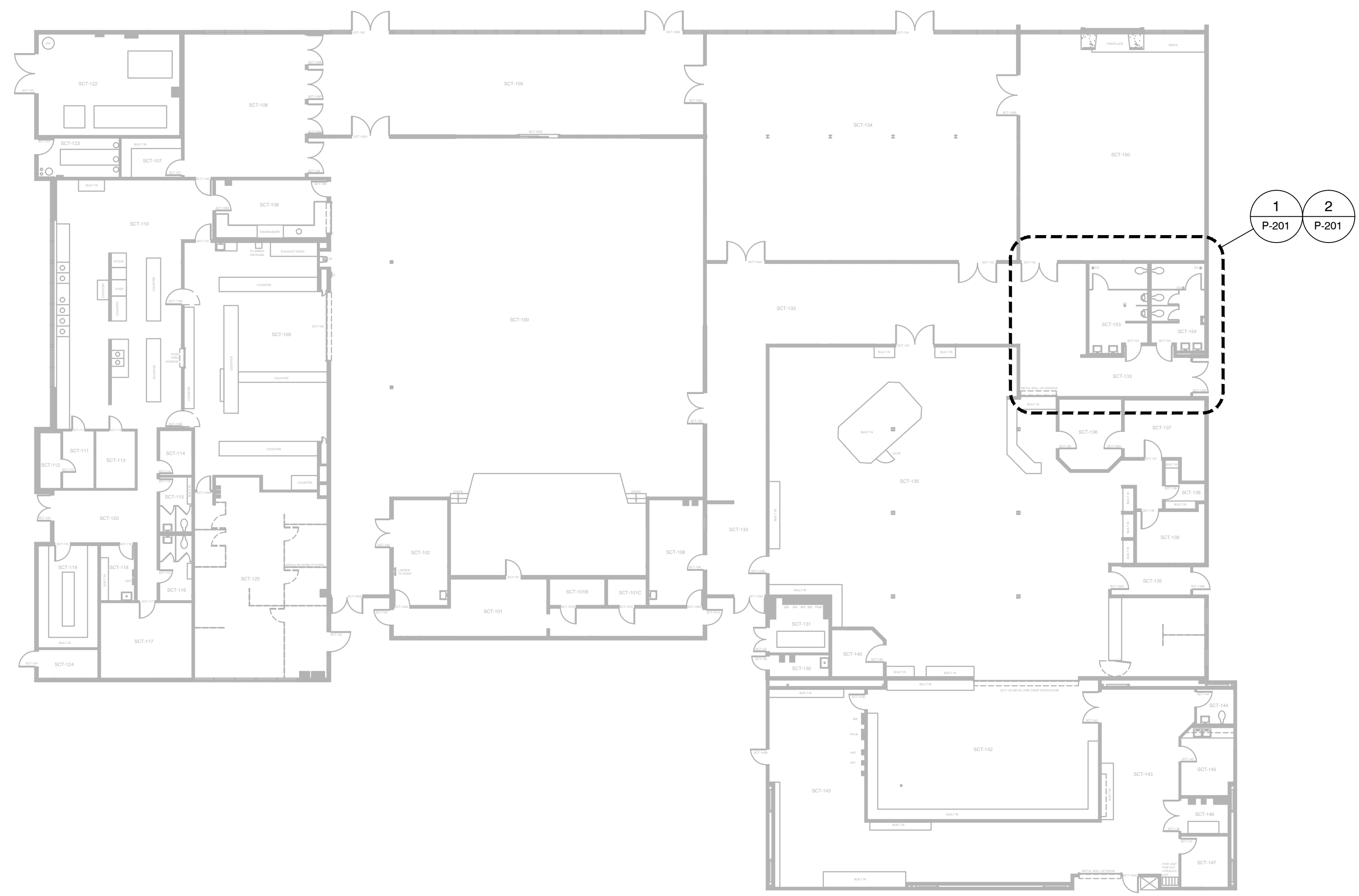
**15452**  
**dHA + CALPEC**  
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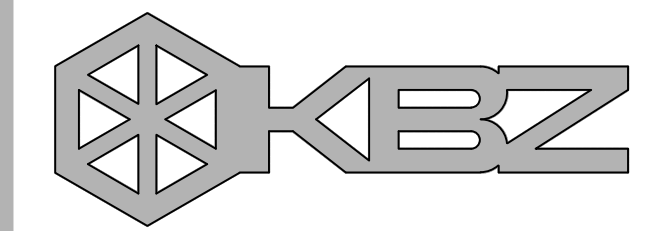
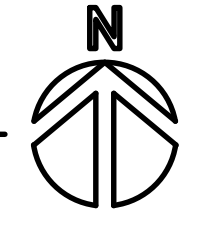
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CHECKED: KC/AI  
DATE: 03/21/17  
JOB. NO. 15452  
SHEET PLUMBING  
TITLE SCHEDULES

SHEET  
**P-002**





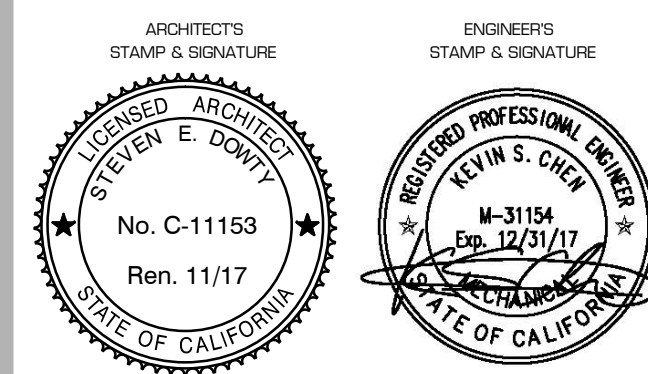
**1** SCT BUILDING FLOOR PLAN  
 SCALE : 1/16" = 1'-0"



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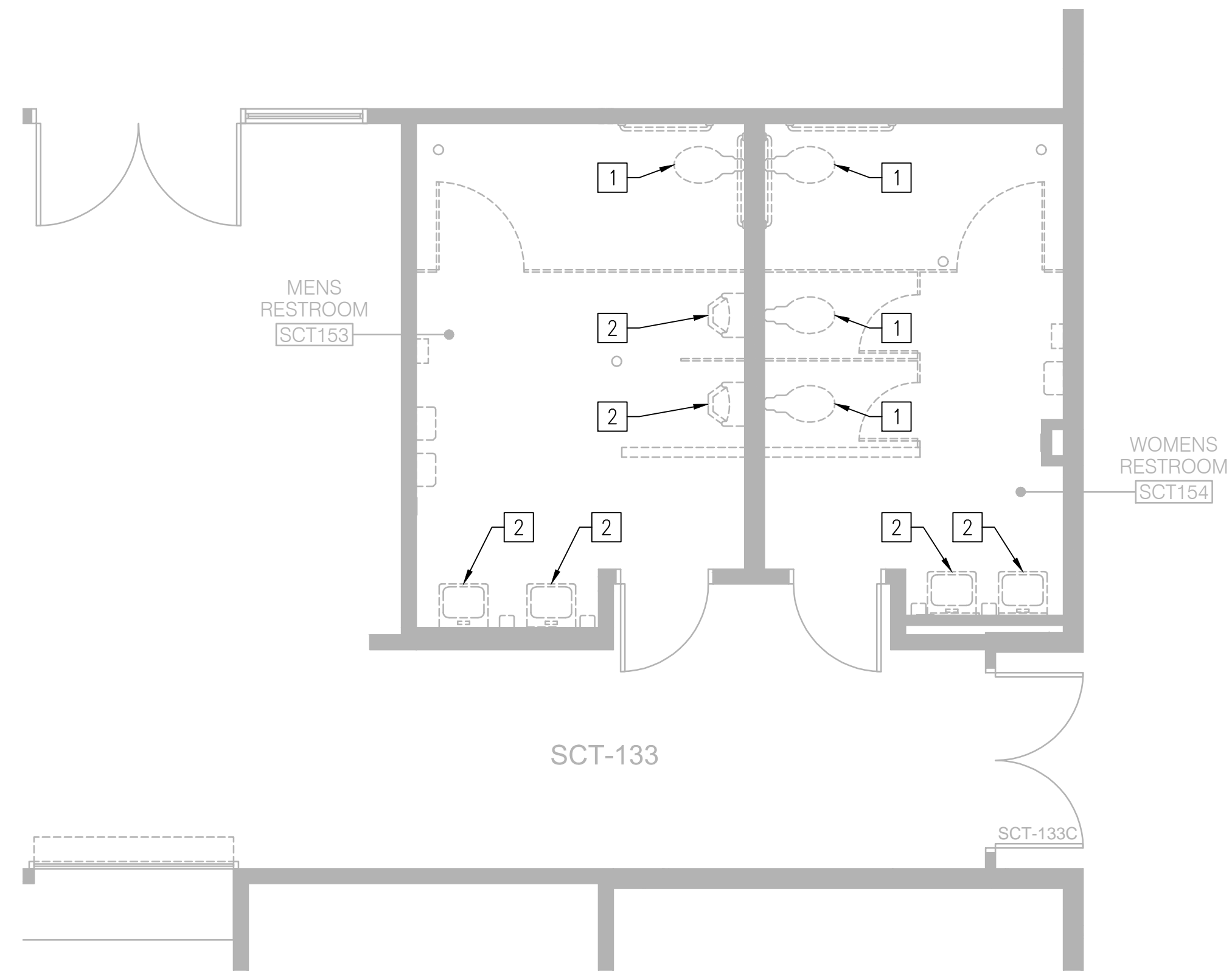


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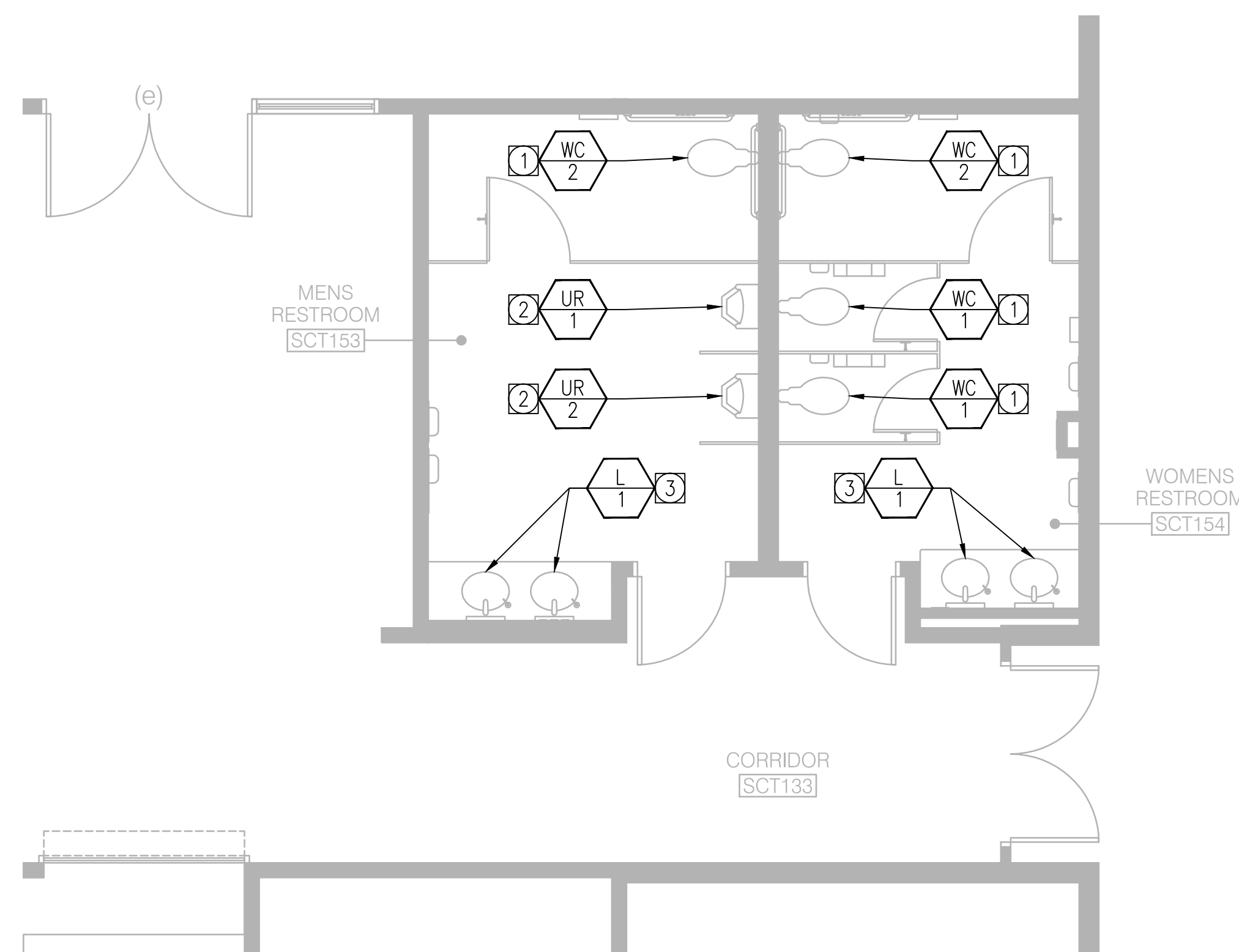
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 DATE: 03/21/17  
 JOB. NO. 15452  
 SHEET: PLUMBING BUILDING  
 TITLE: PLAN - WORK AREAS



**1** SCT RESTROOMS - DEMOLITION PLAN  
 SCALE : 1/4" = 1'-0"



**2** SCT RESTROOMS - MECHANICAL PLAN  
 SCALE : 1/4" = 1'-0"

**REFERENCE NOTES**

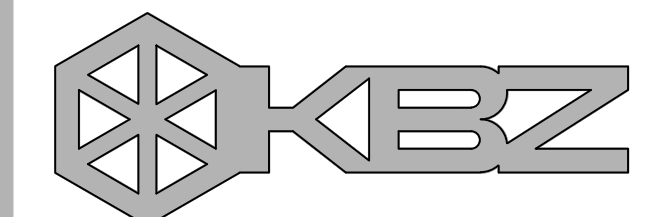
- 1 REMOVE EXISTING FIXTURE AND RELATED PIPING. TEMPORARY CAP PIPING IN WALL AND BELOW FINISHED FLOOR DURING DEMOLITION PHASE IN PREPARATION FOR CONNECTION OF NEW FIXTURE IN THE NEW WORK PHASE.
- 2 REMOVE EXISTING FIXTURE AND RELATED PIPING. TEMPORARY CAP PIPING IN WALL DURING DEMOLITION PHASE IN PREPARATION FOR CONNECTION OF NEW FIXTURE IN THE NEW WORK PHASE.

NOTE:  
 EXACT SIZE, ELEVATION AND LOCATION OF EXISTING SHALL BE FIELD VERIFIED.

**REFERENCE NOTES**

- 1 PROVIDE NEW WASTE, VENT AND DOMESTIC COLD PIPING AS REQUIRED TO CONNECT NEW FIXTURE. SIZE AND MATERIAL TO MATCH EXISTING. CONNECT NEW PIPE TO EXISTING PIPING.
- 2 PROVIDE NEW WASTE AND VENT PIPING AS REQUIRED TO CONNECT NEW FIXTURE. SIZE AND MATERIAL TO MATCH EXISTING. CONNECT NEW PIPE TO EXISTING PIPING.
- 3 PROVIDE NEW WASTE, VENT, DOMESTIC COLD WATER PIPING AS REQUIRED TO CONNECT NEW FIXTURE. SIZE AND MATERIAL TO MATCH EXISTING. CONNECT NEW PIPE TO EXISTING PIPING.

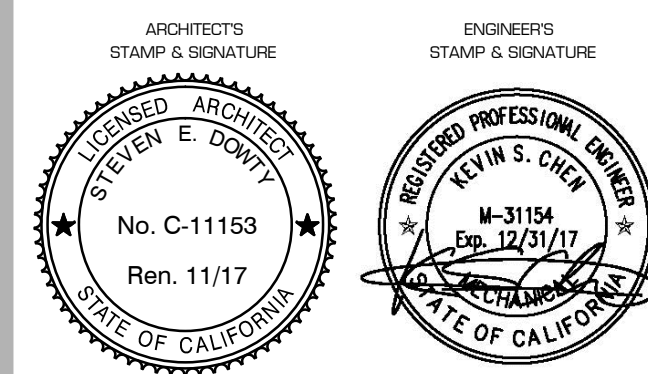
NOTE:  
 EXACT SIZE, ELEVATION AND LOCATION OF EXISTING SHALL BE FIELD VERIFIED.



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SHEET TITLE: PLUMBING SCT BUILDING DEMO & REMODEL PLANS

# DEMOLITION & ALTERATION NOTES

- CONTRACTOR SHALL VISIT THE SITE AND MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS.
- ALL WORK SHALL BE PERFORMED TO CHANGE THE EXISTING ELECTRICAL INSTALLATION AS INDICATED OR AS REQUIRED TO PERFORM THE NEW WORK.
- REMOVE ALL LIGHT FIXTURES, SWITCHES, SPEAKERS, TELEPHONE OUTLETS, RECEPTACLES, MISCELLANEOUS CONDUIT, WIRE, ETC. THAT INTERFERES WITH NEW CONSTRUCTION. EXTEND ANY INTERRUPTED CIRCUITS. PROVIDE BLANK COVER PLATES AS REQUIRED IN FINISHED AREAS. COVER PLATES SHALL MATCH THE WALL SURFACE.
- INFORMATION GIVEN ON THE DRAWINGS ABOUT EXISTING INSTALLATIONS HAS BEEN OBTAINED FROM THE BEST SOURCES AVAILABLE BUT CANNOT BE GUARANTEED ACCURATE IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION BEFORE PROCEEDING WITH ANY NEW WORK THAT MAY BE AFFECTED. INCLUDE AS A PART OF THE CONTRACT ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT.
- EXCEPT AS MAY BE SPECIFICALLY INDICATED OTHERWISE, ALL ELECTRICAL MATERIALS AND EQUIPMENT REMOVED FROM THE EXISTING INSTALLATION IN THE COURSE OF PERFORMING THE INDICATED WORK AND NOT INDICATED TO BE REUSED SHALL BE TREATED AS FOLLOWS:
  - ALL CONDUITS, CONDUCTORS, OUTLET BOXES AND FITTINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
  - ALL OTHER REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER AND DISPOSED OF AS DIRECTED BY THE OWNER.
- CLEAN ALL REMOVED ITEMS THAT ARE TO BE REUSED. CONDUITS THAT ARE TO BE REUSED SHALL BE CLEANED BEFORE INSTALLING ANY NEW CONDUCTORS. WHERE A CHOICE IS POSSIBLE, SELECT THE BEST OF THE REMOVED ITEMS FOR REUSE.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL EXISTING WIRING, CONDUITS, JUNCTION BOXES AND OTHER ELECTRICAL DEVICES IN AREAS WHERE NEW WORK OCCURS, SHALL BE REMOVED EXCEPT WHEN SUCH DEVICES ARE REQUIRED TO MAINTAIN SERVICES TO OTHER AREAS. IN SUCH CASES, CONTRACTOR SHALL RELOCATE THESE DEVICES WHERE REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR MAY ABANDON IN PLACE ANY OF THE EXISTING ITEMS WHEN SUCH ITEMS ARE CONCEALED AND DO NOT INTERFERE WITH THE NEW WORK OF ALL TRADES.
- NUMBER OF CONDUCTORS SHOWN ON EXISTING CONDUITS REPRESENT THOSE REQUIRED TO PERFORM THE WORK. WHEN NUMBER OF EXISTING IS INADEQUATE, CONTRACTOR SHALL PROVIDE ADDITIONAL WIRES AND ALL NECESSARY WORK AND ACCESSORIES REQUIRED TO CONFORM TO THE NUMBER OF CONDUCTORS SHOWN ON THE DRAWINGS. ALL EXTRA EXISTING WIRES SHALL BE TAPED, COILED AND TAGGED AS "NOT-USED" AT BOTH ENDS IN JUNCTION BOXES. CONTRACTOR SHALL EXAMINE AND REPLACE ALL EXISTING WIRES IN BAD CONDITION WITH EQUIVALENT NEW ONES.
- ALL EXISTING CEILING MOUNTED PAGING SPEAKER (SHOWN SQUARE WITH "SP" SYMBOL ON THE PLAN) ON DEMOLISHED AREA SHALL BE RELOCATED TO THE NEW CEILING. MAINTAIN THE EXISTING CONNECTION (EXTEND WIRING IF REQUIRED) FOR PROPER FUNCTION, FIELD COORDINATE EXACT LOCATION ON SITE.
- EXISTING FIRE ALARM DEVICE IN THE DEMOLISHED AREA SHALL BE PROTECTED AND RELOCATED TO THE NEW FINISHED WALL OR CEILING. COORDINATE WITH BUILDING FIRE ALARM CONTRACTOR FOR PREVENTING NUISANCE OR FALSE ALARM DURING THE CONSTRUCTION.

## DEMOLITION AND REMODEL SYMBOLS

THE FOLLOWING LETTER DESIGNATIONS SHOWN ON DEMOLITION/REMODEL PLANS ADJACENT TO LIGHT FIXTURES, RECEPTACLES, TELEPHONE AND DATA OUTLETS, EQUIPMENT, ETC. DENOTE:

- (E) WHEN SHOWN ADJACENT TO LIGHTING FIXTURE, OUTLETS, PANELS, IN CONDUIT RUNS, ETC., DENOTES EXISTING TO REMAIN.
- (R) WHEN SHOWN ADJACENT TO ELECTRICAL EQUIPMENT DENOTES DISCONNECT AND REMOVE EQUIPMENT WITH ASSOCIATED CONDUIT AND WIRING U.O.N.
- (ER) WHEN SHOWN ADJACENT TO LIGHTING FIXTURE, OUTLETS, PANELS, IN CONDUIT RUNS, ETC., DENOTES EXISTING TO BE RELOCATED.
- (RE) WHEN SHOWN ADJACENT TO LIGHTING FIXTURE, OUTLETS, PANELS, IN CONDUIT RUNS, ETC., DENOTES RELOCATED EXISTING AT NEW LOCATION.

# SYMBOL LIST

## GENERAL:

- DUPLEX CONVENIENCE OUTLET 20 AMP, 120 VOLT, +18" A.F.F. U.O.N..
- DUPLEX CONVENIENCE OUTLET 20 AMP, 120 VOLT, FLOOR MOUNTED.
- GFI DUPLEX RECEPTACLE 20AMP, 120 VOLT, 48" A.F.F., U.O.N..
- SPECIAL RECEPTACLE. NEMA CONFIGURATION AS NOTED.
- PLUGMOLD.
- JUNCTION BOX.
- JUNCTION BOX WALL MOUNTED.
- JUNCTION BOX MOUNTED ON CONDUIT STUB +8" A.F.F., U.O.N..
- WALL BOX 4" SQUARE x 2-1/8" DEEP WITH (2) DATA AND (1) VOICE COMBINATION OUTLETS AT + 18" AFF, U.O.N. PROVIDE (1) 1-1/4" CONDUIT FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE.
- MOTOR CONNECTION.
- MAGNETIC MOTOR STARTER. NEMA SIZE AS INDICATED.
- COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH. SIZE AS INDICATED.
- DISCONNECT SWITCH, 30 AMP, 3 POLE, NON-FUSED U.O.N..
- DISCONNECT SWITCH, 60 AMP, 3 POLE WITH 50 AMP FUSES.
- TERMINAL CABINET AS NOTED.
- SURFACE MOUNTED LIGHTING AND RECEPTACLE PANELBOARD.
- FLUSH MOUNTED LIGHTING AND RECEPTACLE PANELBOARD.
- SWITCHBOARD OR POWER PANELBOARD.
- CONNECTION TO EQUIPMENT.
- TRANSFORMER.
- PANEL, SWITCHBOARD, TRANSFORMER OR TERMINAL CABINET DESIGNATION.
- DEMO REFERENCE NOTE.
- REFERENCE NOTE.
- ELECTRICAL DEVICE AS NOTED (I.E. RELAY, TIME CLOCK).
- POWER POLE AS A RACEWAY FOR VOICE/DATA AND POWER FEED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR SLAB OR UNDERGROUND.
- EXPOSED CONDUIT.
- CONDUIT TURNING UP.
- CONDUIT TURNING DOWN.
- CONDUCTORS OTHER THAN #12 AWG AS INDICATED (3# AWG) SIZE CONDUIT PER APPLICABLE CODES.
- HOMERUN TO PANEL "2LA" CIRCUITS 1,3,5 (3 POLE CIRCUIT BREAKER).
- HOMERUN TO PANEL "2LA" CIRCUITS 2,4,6 WITH COMMON NEUTRAL.
- CONDUIT STUB WITH CAP. (WITH POLY-PROPYLENE PULL WIRE).
- CONDUIT SEAL.

## LIGHTING:

- CLG WALL
- 3-1/2"x3-3/4"x48" - SURFACE MOUNTED LED LUMINAIRE. PROVIDE REMOTE EMERGENCY BATTERY PACK CAT # EMPK.
- 3-1/2"x3-3/4"x48" - SURFACE MOUNTED LED LUMINAIRE. PROVIDE REMOTE EMERGENCY BATTERY PACK CAT # EMPK.
- LIGHTING FIXTURE, "6" DENOTES CIRCUIT NUMBER, "6" DENOTES CONTROLLING SWITCH.
- FLUORESCENT LIGHTING FIXTURE.
- FLUORESCENT STRIP LIGHTING FIXTURE.
- SINGLE FACE EXIT LIGHT WITH DIRECTIONAL ARROWS IF INDICATED.
- DOUBLE FACE EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS IF INDICATED.
- LIGHT ON EMERGENCY CIRCUIT.
- FIXTURE TYPE "A" 100 VOLT AMPERE EACH. TYPICAL IN ROOM OR AREA U.O.N. (BALLAST LOSS INCLUDED, IF ANY). SEE FIXTURE SCHEDULE.
- SINGLE POLE TOGGLE SWITCH, +42" A.F.F., U.O.N.. SUBSCRIPTS INDICATE THE FOLLOWING:
  - a - OUTLETS CONTROLLED.
- OCCUPANCY SENSOR SWITCH - FOR LIGHT CONTROL. SEE NOTES.

# OCCUPANCY SENSOR NOTES

OCCUPANCY SENSOR (NOT PART OF LIGHTING CONTROL PANEL) FOR LIGHTING CONTROL SYSTEM SHALL BE BY "GREENGATE" (COOPER CONTROLS), WITH THE FOLLOWING PRODUCT NUMBERS:

- WALL MOUNTED SENSOR: PIR TECHNOLOGY, AUTO OR MANUAL ON FOR PRIVATE/SMALL OFFICE, CONFERENCE ROOM AND STORAGE:
  - a= DUAL LEVEL, GREENGATE #05W-P-0451-DW (COVERAGE >100-300 SQUARE FEET)
  - b= SINGLE LEVEL, GREENGATE #05W-P-0451-MV (COVERAGE >100-SQUARE FEET)
- CEILING MOUNTED SENSOR: ULTRASONIC SENSOR TECHNOLOGY, TO BE INSTALLED WITH SWITCH PACK, GREENGATE #SP20-MV AND MANUAL WALL MOUNTED SWITCH:
  - a= SMALL OFFICE, <1270 S.F., GREENGATE #0MC-U-1001 ONE WAY COVERAGE.
  - b= OPEN OFFICE OR RESTROOM <2500 S.F., GREENGATE #0MC-U-2000 TWO WAY COVERAGE.
  - c= CORRIDORS OR NARROW HALLWAYS, 13 FT x 100 FT. COVERAGE, GREENGATE #0DC-U-0100-H, TWO WAY COVERAGE.

CONTRACTOR TO COORDINATE WITH MANUFACTURER REPRESENTATIVE FOR THE BEST PLACEMENT AND QUANTITY OF THE CEILING MOUNTED SENSORS, AND ADDITIONAL ACCESSORIES FOR COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM. EACH SENSOR TIME DELAY SHALL BE SET AT 30 MINUTES.

# ABBREVIATIONS

A	AMPERE.	GFI	GROUND FAULT INTERRUPTER.	REQ'D	REQUIRED.
A/C	AIR CONDITIONING.	GND	GROUND.		
AFF	ABOVE FINISHED FLOOR.	HOA	HAND-OFF-AUTOMATIC HORSEPOWER.	SHT	SHEET.
BKBD	BACKBOARD.	HP	HORSEPOWER.	SPST	SINGLE POLE, SINGLE THROW SURFACE SWITCH.
C	CONDUIT.	IC	INTERCOM.	SW	SWITCH.
C/B	CIRCUIT BREAKER.	J	JUNCTION.	TC	TIME CLOCK.
CKT	CIRCUIT.	LCL	LONG CONTINUOUS LOAD.	TERM	TERMINAL.
CD	CONDUIT ONLY.	LTG	LIGHTING.	TV	TELEVISION.
DE	DUAL ELEMENT FUSES.	LTV	LIGHTING.	TYP	TYPICAL.
DISC	DISCONNECT.	MAX	MAXIMUM.	XFMR	TRANSFORMER.
DISTR	DISTRIBUTION.	MCR	MAIN COMMUNICATION ROOM	UG	UNDERGROUND.
DWG	DRAWING.	MIN	MINIMUM.	UON	UNLESS OTHERWISE NOTED.
EA	EACH.	MTG	MOUNTING.	V	VOLT.
ELEC	ELECTRICAL.	NF	NON-FUSED.	W/	WITH.
EMT	ELECTRICAL METALLIC.	NIC	NOT IN CONTRACT.	WP	WEATHERPROOF.
EQUIP	EQUIPMENT.	NL	NIGHT LIGHT.		
EXIST	EXISTING.	NTS	NOT TO SCALE.	4/S	JUNCTION BOX 4" SQUARE.
(E)	EXISTING CONDITION TO REMAIN	P	POLE.	5/S	JUNCTION BOX 4-11/16".
(ER)	EXISTING TO BE REMOVED	PA	PUBLIC ADDRESS.		
F	FUSE.	PB	PULL BOX.		
FA	FIRE ALARM.	PNL	PANEL.		
FLOOR	FLUORESCENT.	PWR	POWER.		

# GENERAL NOTES

- ALL ELECTRICAL WORK, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2016 CALIFORNIA ELECTRICAL CODE(CEC), 2011 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- MINIMUM SIZE OF CONDUIT SHALL BE 1/2", MINIMUM SIZE OF CONDUCTOR SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
- ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN.
- WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
- ALL JUNCTION BOXES AND PULL BOXES SHALL BE OF CODE GAUGE AND OF THE REQUIRED SIZE TO ACCOMMODATE NUMBER OF CONDUCTORS SHOWN.
- ALL PULL BOXES IN FINISHED AREAS SHALL HAVE FACTORY APPLIED PRIME COAT OF PAINT.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL, PLUMBING, KITCHEN EQUIPMENT AND REFRIGERATION AND ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
- ALL PANELBOARDS SHALL HAVE LOCKING DOOR AND BE KEVED ALIKE UNLESS OTHERWISE NOTED.
- STUB OUT (2) 1" CONDUITS FROM ALL FLUSH MOUNTED PANELBOARDS INTO ACCESSIBLE CEILING SPACE AND CAP FOR FUTURE USE, UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, RECEPTACLES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
- ALL MOUNTING HEIGHTS SHOWN ARE TO CENTER LINE OF OUTLET OR DEVICE AND SHALL APPLY UNLESS INDICATED OTHERWISE.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATED GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
- LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOOR, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR CLOCKS, SWITCHES, HORNS FIRE ALARM STRIKE STATIONS, SPEAKERS, RECEPTACLES ETC.
- WHERE ELECTRONIC MOTORS OR HEATERS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
- EXPOSED RACEWAYS (WHEN INDICATED ON DRAWINGS) SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
- FURNISH FISH WIRE IN EACH RACEWAY RUN OVER 10" IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
- NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, UNLESS OTHERWISE INDICATED.
- PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT.
- SUPPORT PANELBOARDS, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
- OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURES.
- SEE MECHANICAL, PLUMBING, KITCHEN EQUIPMENT AND REFRIGERATION DRAWINGS FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS AND TRANSFORMERS, SWITCHES, TIME CLOCKS, VALVES, STATS, RELAYS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED.
- ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF TYPE.
- NO CONDUIT RUNS WILL BE ALLOWED IN CONCRETE SLAB. ALL CONDUITS WILL BE PLACED IN THE HUNG CEILING UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND.
- LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK TO BACK.
- FOR NEW OR UPGRADE UTILITY SERVICE, CONTACT UTILITY COMPANIES FOR SCOPE OF WORK PRIOR TO SUBMITTING BID; INCLUDE UTILITY CHARGES IF ANY.
- WHERE MORE THAN (1) ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE.
- WHERE MOUNTING HEIGHTS OR DIMENSIONS OF DEVICE LOCATIONS ARE SHOWN, CONTRACTOR SHALL CONFIRM SUCH DIMENSIONS WITH ARCHITECTURAL DRAWINGS. WHERE CONFLICT IN DIMENSIONS OCCUR BETWEEN DRAWINGS, OR WHERE NO DIMENSIONS OR MOUNTING HEIGHTS ARE INDICATED ON EITHER SET OF DRAWINGS, CONTRACTOR SHALL VERIFY THESE ITEMS WITH ARCHITECT IN FIELD PRIOR TO ROUGH-IN.
- ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROTECTED BY MATERIALS TESTED IN ACCORDANCE WITH UL1479/ASTM E-814. INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS AND MAINTAIN THE FIRE RATING OF WALLS AND/OR FLOORS AFFECTED. PROVIDE HILTI CS240 FIRESTOP SEALANT, CSM LISTING NO. 4060-1200-100, OR EQUIVALENT STATE FIRE MARSHALL APPROVED AND LISTED MATERIAL.
- WHERE LIGHTING FIXTURES ARE FOR LAY-IN MOUNTING IN AN EXPOSED RUNNER TYPE OF CEILING, PROVIDE EACH FIXTURE WITH CLIPS (4 REQUIRED) OR EQUIVALENT MEANS TO PREVENT THE ACCIDENTAL DISENGAGEMENT OF THE FIXTURE FROM THE CEILING. WHERE FIXTURES IN SUCH CEILINGS ARE SQUARE OR RECTANGULAR IN SHAPE, PROVIDE EACH FIXTURE WITH FOUR (4) #12 AWG GALVANIZED STEEL WIRES WITHIN 3 INCHES OF EACH OF THE CORNERS, AND SECURE TO THE BUILDING STRUCTURE AS REQUIRED.
- ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN, U.O.N. CONDUCTORS IN CONDUIT EXPOSED ON THE ROOF SHALL HAVE 90° INSULATION (THHN), #10 AND SMALLER SHALL BE SOLID TYPE, AND #8 AWG AND LARGER SHALL BE STRANDED.
- TRANSFORMER INSULATION SHALL BE SUITABLE FOR 150° AVERAGE TEMPERATURE RISE. SEE SPECIFICATIONS FOR DETAILS.
- ALL RECEPTACLE OUTLETS SERVING COMPUTER EQUIPMENT SHALL HAVE A SEPARATE ISOLATED, INSULATED GROUND WIRE - SEPARATED NEUTRAL FOR EACH CIRCUIT OR OVERSIZE NEUTRAL (#10) FOR MULTI-CIRCUITS.
- ALL CONDUITS SHALL BE ELECTRICAL METALLIC TUBING AND RIGID STEEL CONDUIT ONLY. PROVIDE APPROPRIATE COUPLINGS, CONNECTORS AND OTHER FITTINGS AS REQUIRED.
- EMERGENCY CIRCUITS SHALL BE ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT AND SHALL NOT ENTER SAME RACEWAY, BOXES OR CABINETS WITH OTHER WIRING EXCEPT WHERE PROVIDED IN NEC 700-98.
- RECESSED FIXTURE IN FIRE RATED ASSEMBLY SHALL BE APPROVED PRIOR TO INSTALLATION UBC-4304.
- J-BOXES ABOVE HARD LID CEILINGS SHALL BE ACCESSIBLE VIA ACCESS PANELS.
- BOXES SHALL BE SECURED AS PER ART 370-13.
- ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED AS PER LISTING OR LABELING (i.e. MAX. FUSE SIZE MEANS FUSE PROTECTION REQUIRED), AND SHALL BE INSTALLED AS APPROVED.
- ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UL OR A LOS ANGELES COUNTY APPROVED THIRD PARTY TESTING FACILITY.
- SUBMIT TORQUE CERTIFICATE FOR ALL ELECTRICAL EQUIPMENT/CONNECTIONS PRIOR TO CERTIFICATE OF OCCUPANCY ISSUANCE.
- PROVIDE DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT, INCLUDING MULTIWIRE BRANCH CIRCUIT HOME RUN AS INDICATED PER-PLAN. CONTRACTOR RESPONSIBLE TO PROVIDE THE BREAKER HANDLE OR MULTI-POLE BREAKER FOR ALL CIRCUITS INSTALLED WITH SHARED NEUTRAL AS REQUIRED PER-CODE.

# FIXTURE SCHEDULE

FIXTURE SYMBOL	No	LAMPS(S)	BALLAST MANUFACTURE CAT. No.	FIXTURE DESCRIPTION	MANUFACTURER CAT. No.	FINISH	MOUNTING /REMARK
	1	LED 3500K, 2342LM 84LFW LED 28W	MFR STD LED DRIVER NON DIMMIG 120VAC	3-1/2"x3-3/4"x48" - SQUARE SILVER POWDERCOAT FINISH SURFACE MOUNTED LED LUMINAIRE, CONSTRUCTED OF EXTRUDED ALUMINUM HOUSING AND ACRYLIC LENS, PROVIDE REMOTE EMERGENCY BATTERY PACK CAT # EMPK AS INDICATED PER-PLAN. SEE NOTE #5	MARK ARCHITECTURAL LIGHTING - SLOT 4 LED 54LS 4FT 1N35 COHN 120 SLV -LENGTH AS PER ARCHITECT PLANS	SILVER	SURFACE CEILING MOUNTED

## FIXTURE SCHEDULE NOTES:

- THE FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTIONS OF LIGHTING FIXTURE AND SPECIFIC MANUFACTURER CATALOG NUMBERS. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY EACH FIXTURE'S EXACT LOCATION AND PROVIDE WITH NECESSARY TRIMS AND MOUNTING HARDWARE MATCHING REFLECTED CEILING PLAN AND CEILING SYSTEM PER-ARCHITECTURAL DRAWINGS.
- WHERE ONLY ONE FIXTURE TAG SHOWN IN AN AREA OR ROOM ON THE LIGHTING PLAN, THE TAG SHALL APPLY TO ALL FIXTURES IN THAT AREA OR ROOM, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE IN THE SHOP DRAWING SUBMITTAL ALL CUT-SHEETS OF THE SPECIFIED LIGHTING FIXTURES WITH SPECIFIED LED CHARACTERISTIC AND DRIVER INDICATED ON SCHEDULE, INCOMPLETE SUBMITTAL WILL NOT BE REVIEWED AND RETURNED FOR COMPLETE RE-SUBMITTAL.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION OF LIGHT FIXTURE LOCATION IN MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT ROOMS WHERE CONDUITS, DUCT WORKS, PIPINGS AND ETC. ARE PRESENT TO AVOID CONFLICT AND ENABLE PROPER ILLUMINATION DISTRIBUTION IN THE ROOM.
- FIELD COORDINATE LOCATION OF REMOTE BATTERY PACK (IF INDICATED ON THE PLAN) IN THE ACCESSIBLE CEILING SPACE. PROVIDE CONSTANT HOT/UN-SWITCHED CIRCUIT TO THE EMERGENCY BATTERY PACK, FOLLOW MANUFACTURER INSTALLATION MANUAL.

# SHEET LIST

E-001	ELECTRICAL LEGENDS, ABBREVIATIONS & GENERAL NOTES
E-002	INDOOR TITLE 24 COMPLIANCE FORMS
E-100	BUILDING PLAN - WORK AREA & PANEL SCHEDULE
E-201	SCT BUILDING DEMO & REMODEL PLANS

	-	-/-/-	XX
	-	-/-/-	XX
	-	-/-/-	XX
	-	-/-/-	XX
	-	-/-/-	XX

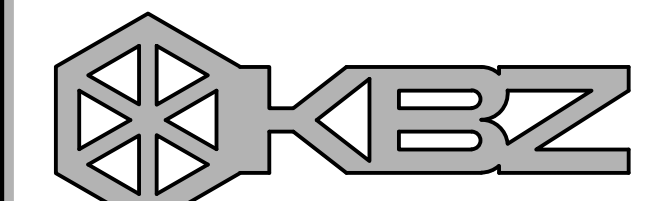
REVISION DESCRIPTION DATE BY

DRAWN: jha+CALPEC  
 CHECKED: KC/AI  
 DATE: 03/21/17  
 JOB. NO. 19452

SHEET ELECTRICAL LEGENDS, ABBREVIATIONS & GENERAL NOTES

SHEET E-001

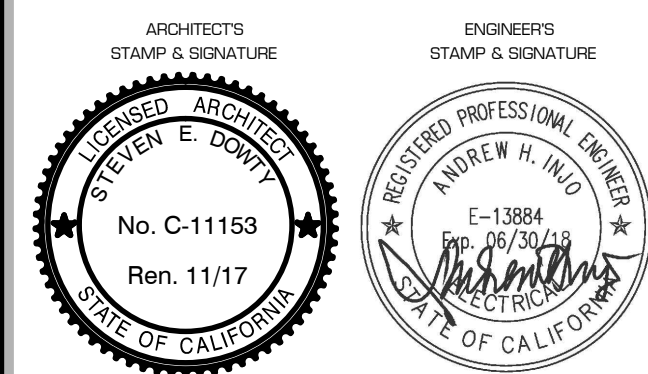
ANTELOPE VALLEY COMMUNITY COLLEGE  
 3001 WEST AVENUE K, LANCASTER CA 93309  
**CAMPUS RESTROOM REMODEL - PHASE 1**



**KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA**  
 30-W. ANTELOPE STREET SANTA BARBARA, CA 93101  
 TELEPHONE (805) 963-1726 FAX (805) 963-9561

**STEVE DOWTY**  
 ARCHITECT

All ideas, design arrangements and plans indicated or represented by this drawing are owned by and are the property of Kruger-Bensen-Ziemer. All drawings, and work created, revised and developed for use on, and in connection with, the specified project. None of such ideas, designs, arrangements or plans shall be used by or disclosed to any person, firm or corporation for any purpose whatsoever without the written permission of Kruger-Bensen-Ziemer.



CONSULTANT INFORMATION  
  
**JHA + CALPEC**  
 150 S. ARROYO PARKWAY  
 SUITE NO. 100  
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 TEL: (626) 445-8580  
 FAX: (626) 445-8081

STATE OF CALIFORNIA  
**INDOOR LIGHTING**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

Climate Zone: 14  
 Conditioned Floor Area: 348.95 SF  
 Unconditioned Floor Area:

**General Information**  
 Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel  
 Schools  Retail/Trade Schools  Conditioned Spaces  Unconditioned Spaces

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

**Lighting Compliance Documents** (refer to each document included)  
 For detailed instructions on the use of this set of Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
YES		NRCC-LT-01-E	Certificate of Compliance - All Pages required on plans for all submittals.
YES		NRCC-LT-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
YES		NRCC-LT-03-E	Indoor Lighting Power Allowance
NO		NRCC-LT-04-E	Tailored Method Worksheets
NO		NRCC-LT-05-E	Line Voltage Track Lighting Worksheets

**Summary of Allowed Lighting Power**  
 Conditioned and Unconditioned space lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting	Watts	Installed Lighting	Watts
1. NRCC-LT-01-E, page 4	168	NRCC-LT-01-E, page 4	0
2. PORTABLE ONLY FOR OFFICES	0		
3. NRCC-LT-01-E, page 3	0	Minus Lighting Control Credits	0
4. NRCC-LT-02-E, page 2	0	Adjusted Installed Lighting Power	0
Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	168	Adjusted Installed Lighting Power (row 1 minus row 3)	0

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

5.  Complies ONLY if installed & Allowed  
 Allowed Lighting Power  
 Conditioned NRCC-LT-03-E, page 1 168

6.  Complies ONLY if installed & Allowed  
 Allowed Lighting Power  
 Unconditioned NRCC-LT-05-E, page 1 0

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

YES	NO	Form/Title
		NRCC-LT-01-E - Must be submitted for all buildings
		NRCC-LT-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.
		NRCC-LT-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.
		NRCC-LT-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.
		NRCC-LT-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.
		NRCC-LT-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

**Declaration of Required Certificates of Acceptance** - Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title
		NRCA-LT-02-A - Must be submitted for occupancy sensors and automatic time switch controls.
		NRCA-LT-03-A - Must be submitted for automatic daylight controls.
		NRCA-LT-04-A - Must be submitted for demand responsive lighting controls.

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STATE OF CALIFORNIA  
**INDOOR LIGHTING**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

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

**A. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST**  
 The actual indoor lighting power listed on this page and on the next page 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 form (NRCC-LT-05-E) when line-voltage track lighting is installed.

**B. Installed Portable Luminaires in Offices - Exception to Section 140.6(f)**  
 This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.  
 This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office.  
 Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be treated between offices having different lighting systems.

Complete Luminaire Description (i.e., LED, under-cabinet, luminaire-mounted direct/indirect)	Office Installed Portable Luminaire Watts Per Square Foot						Office Location	Field Inspector	
	A	B	C	D	E	F			
1	2	3	4	5	6	7	8	9	
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:								0	Enter sum total of all pages into NRCC-LT-01-E, Page 1

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

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

**C. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST**

Luminaire Schedule	Installed Watts						Location	Field Inspector	
	A	B	C	D	E	F			
1	2	3	4	5	6	7	8	9	
INSTALLED WATTS PAGE TOTAL:								168	Enter sum total of all pages into NRCC-LT-01-E, Page 2

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I, certify that this Certificate of Compliance documentation is accurate and complete.  
 Documentation Author Name: Andrew H. Injo  
 Signature Date: 03/02/2017  
 Title: dHA+CALPEC  
 Address: 150 S. Arroyo Parkway, Suite 100  
 City/State/Zip: Pasadena, CA 91105 Phone: (626) 445 8580

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. I certify that this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 9 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance.  
 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 2 and Part 6 of the California Code of Regulations.  
 4. The building features and performance specifications, materials, components, and manufactured devices for the building design or system design 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 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.  
 Documentation Author Name: Andrew H. Injo  
 Signature Date: 03/02/2017  
 Title: dHA+CALPEC  
 Address: 150 S. Arroyo Parkway, Suite 100  
 City/State/Zip: Pasadena, CA 91105 Phone: (626) 445 8580

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING - LIGHTING CONTROLS**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting - Lighting Controls  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

The NRCC-LT-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

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

YES	NO	Control Requirements
		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 130.10.
		Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.5. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
		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).
		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).
		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.
		All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
		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(b).
		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).
		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
		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.
		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).
		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 installed 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. 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 - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING - LIGHTING CONTROLS**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting - Lighting Controls  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:  
 CONDITIONED SPACES  UNCONDITIONED SPACES

**MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST**

Lighting Control Schedule	Standards Complying With 1													Field Inspector					
	A	B	C	D	E	F	G	H	I	J	K	L	M		N	O			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):																		0	Enter Control Credit total into NRCC-LT-01-E, Page 1

1. §130.1(a) - Manual area controls: §130.0(b) - Multi Level: §130.1(c) - Auto Shut-Off: §130.1(d) - Mandatory Daylight: §130.1(e) - Demand Responsive: §140.6(f) - Additional lighting controls installed to earn a PAF: §140.6(g) - Prescriptive Secondary Daylight Control.  
 2. Check Table 140.6-A for correct factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING - LIGHTING CONTROLS**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Indoor Lighting - Lighting Controls  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I, certify that this Certificate of Compliance documentation is accurate and complete.  
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**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
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 1. I certify that this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 9 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance.  
 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 2 and Part 6 of the California Code of Regulations.  
 4. The building features and performance specifications, materials, components, and manufactured devices for the building design or system design 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 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.  
 Documentation Author Name: Andrew H. Injo  
 Signature Date: 03/02/2017  
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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING POWER ALLOWANCE**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Certificate of Compliance - Indoor Lighting Power Allowance  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

**ALLOWED LIGHTING POWER**  
 A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:  
 CONDITIONED SPACES  UNCONDITIONED SPACES

**A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES**  
 If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.  
 If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts.

(a)	(b)
209.37	209.37

**B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE**

A	B	C	D
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (F <sup>2</sup> )	COMPLETE BLDG. AREA	ALLOWED WATTS
1	2	3	4
Total Area:			209.37
Total Watts. Enter Total Watts into section A, row 1 (above on this page)			209.37

**C-1. AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (C-2 plus C-3)**

	Watts
Total from section C-2	209.37
Total from section C-3	0.00
Total Watts. Enter Total Watts into section A, row 2 (above on this page)	209.37

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING POWER ALLOWANCE**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Certificate of Compliance - Indoor Lighting Power Allowance  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:  
 CONDITIONED SPACES  UNCONDITIONED SPACES

**C-2. AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE**  
 Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LT-01-E.  
 Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B	C	D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER (F <sup>2</sup> )	AREA (F <sup>2</sup> )	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C	1	2	3
SCT BUILDING				
MENS RESTROOM	SCT153 RESTROOM	0.6	184.06	110.44
MENS RESTROOM	SCT154 RESTROOM	0.6	194.89	98.93
TOTALS				348.95
Enter sum total Area Category allowed watts into section C-1 of NRCC-LT-03-E (this compliance form)				209.37

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA  
**INDOOR LIGHTING POWER ALLOWANCE**  
 (REG/NRCC/LT-1-E, Revised 06/10)  
 CERTIFICATE OF COMPLIANCE  
 Certificate of Compliance - Indoor Lighting Power Allowance  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:  
 CONDITIONED SPACES  UNCONDITIONED SPACES

**C-3. AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (From Table 140.6-C Footnotes)**

A	B	C	D	E	F	G
Primary Function	Sq Ft or linear Ft	Additional Watts Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaires Types in each Primary Function Area	Total Design Watts	ALLOWED WATTS Smaller of D or F
1	2	3	4	5	6	7
TOTALS - Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES - Section C-1						0

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.  
 2. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6, which include: Specialized task work, Ornamental lighting, Precision commercial and industrial work, Per linear foot of white board or chalk board, Accent, display and feature lighting, and Videoconferencing Studio lighting.  
 3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

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 Certificate of Compliance - Indoor Lighting Power Allowance  
 Project Name: AVC Restroom Renovations SCT Date Prepared: 03/02/2017

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I, certify that this Certificate of Compliance documentation is accurate and complete.  
 Documentation Author Name: Andrew H. Injo  
 Signature Date: 03/02/2017  
 Title: dHA+CALPEC  
 Address: 150 S. Arroyo Parkway, Suite 100  
 City/State/Zip: Pasadena, CA 91105 Phone: (626) 445 8580

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. I certify that this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 9 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 2 and Part 6 of the California Code of Regulations.  
 4. The building features and performance specifications, materials, components, and manufactured devices for the building design or system design 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 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.  
 Documentation Author Name: Andrew H. Injo  
 Signature Date: 03/11/17  
 Title: dHA+CALPEC  
 Address: 150 S. Arroyo Parkway, Suite 100  
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CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

**KRUGER BENSON ZIEMER ARCHITECTS, INC. AIA**  
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**STEVE DOWDY**  
 HEAD OF ARCHITECT

ALL ideas, design arrangements and plans indicated or represented by the drawings are owned by and are the property of Kruger-Benson-Ziemer, AIA architects, and were created, revised and developed for use, and in connection with, the specified project. None of such ideas, designs, arrangements or plans shall be used by or disclosed to any person, firm, or organization for any purpose whatsoever without the written permission of Kruger-Benson-Ziemer.

ARCHITECTS  
 STAMP & SIGNATURE  
 REGISTERED ARCHITECT  
 STATE OF CALIFORNIA  
 No. C-11153  
 Exp. 11/17

ENGINEERS  
 STAMP & SIGNATURE  
 REGISTERED PROFESSIONAL ENGINEER  
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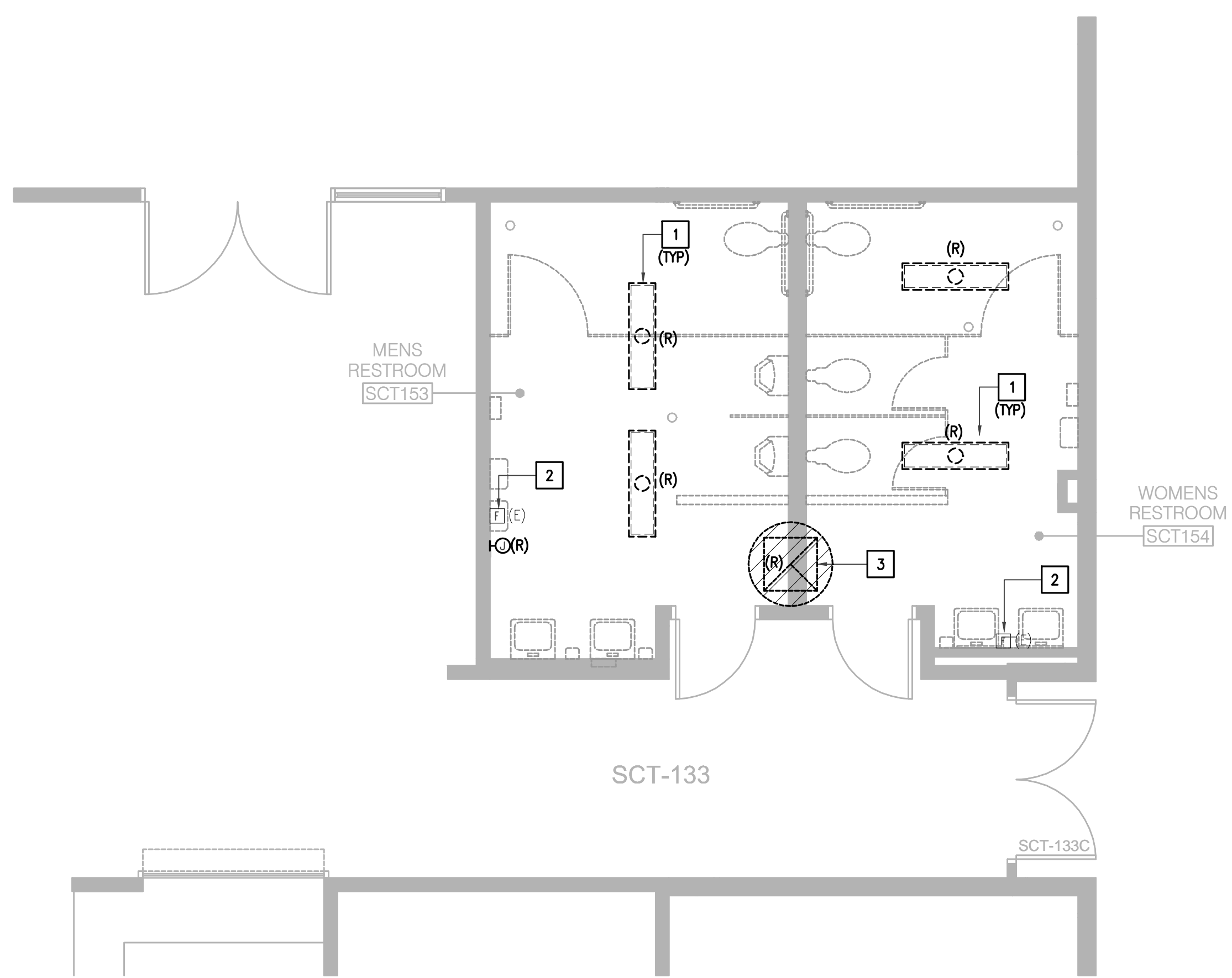
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-	-	-	XX
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-	-	-	XX
-	-	-	XX
-	-	-	XX

DRAWN: dHA+CALPEC  
 CHECKED: KC/M  
 DATE: 03/21/17  
 JOB NO: 15452

SHEET: INDOOR TITLE 24  
 TITLE: COMPLIANCE FORMS

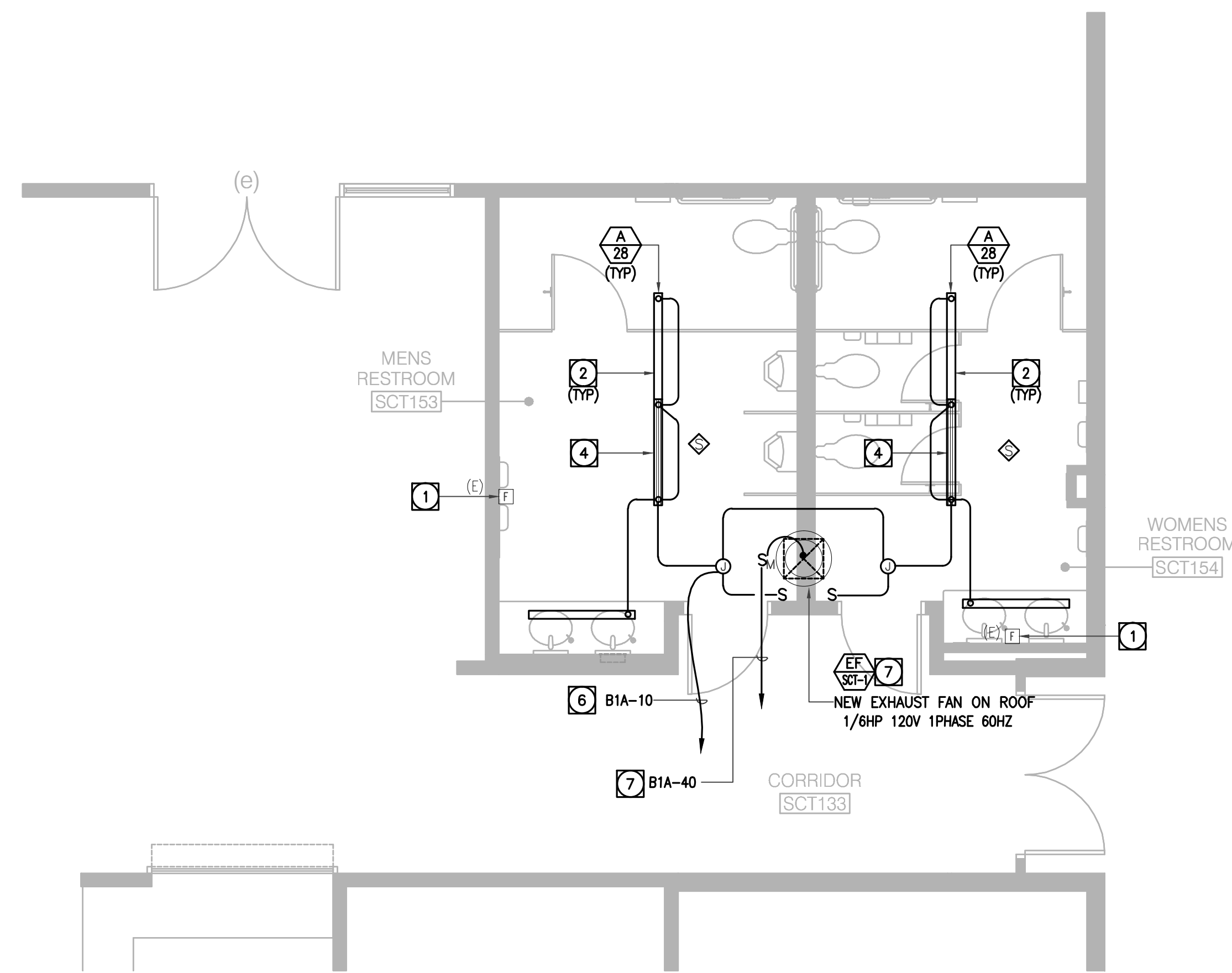
SHEET: E-002





1 SCT RESTROOMS - DEMOLITION PLAN  
SCALE : 1/4" = 1'-0"

- ### REFERENCE NOTES
- 1 REMOVE LIGHT FIXTURE. JUNCTION BOX TO REMAIN FOR NEW LIGHTING.
  - 2 EXISTING SURFACE MOUNTED CONDUIT AND FIRE STROBE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.
  - 3 DISCONNECT AND REMOVE EXISTING EXHAUST FAN SWITCH AND WIRING (FEEDERS AND CONDUIT) BACK TO SERVING PANEL. RELABEL CIRCUIT AS SPARE.



2 SCT RESTROOMS - ELECTRICAL PLAN  
SCALE : 1/4" = 1'-0"

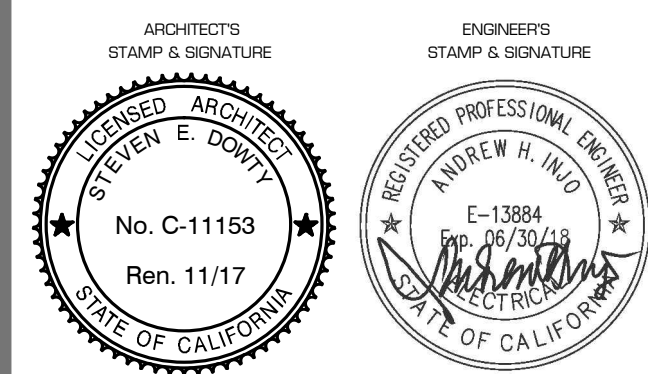
- ### REFERENCE NOTES
- 1 EXISTING SURFACE MOUNTED FIRE STROBE.
  - 2 NEW 3 3/4" X 48" SURFACE MOUNTED LED LUMINAIRE. REFER TO FIXTURE SCHEDULE, SHEET E-001 FOR REQUIREMENT. FIELD VERIFY EXACT LOCATION.
  - 3 NOT USED.
  - 4 PROVIDE EMERGENCY BATTERY PACK TO INDICATED LIGHT FIXTURE, AND CONSTANT HOT 120V. POWER CONNECTION TO BATTERY PACK.
  - 5 NOT USED.
  - 6 RE-CONNECT TO EXISTING 120V. PREVIOUSLY SERVING LIGHTING IN THESE RESTROOMS.
  - 7 EXHAUST FAN TO BE CONTROLLED THRU DEDICATED SWITCHPACK #SP20-MV & LIGHTING CONTROLLED CEILING SENSOR. PROVIDE ADDITIONAL REQUIRED SWITCHPACK.



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REVISION	DESCRIPTION	DATE	BY
1			XX
2			XX
3			XX
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5			XX

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DATE: 03/21/17  
JOB. NO. 15452  
SHEET: SCT BUILDING DEMO & REMODEL PLANS  
TITLE: