RESPONSIBILITY MATRIX

ITEMS	Owner Furnished	Owner Installed	Contractor Furnished	Contractor Installed	REMARKS
I. GENERAL CONDITIONS					
Building permits	▼				
Third party inspection			▼	▼	*Any 3rd party inspections required by city*
Test & Balance			▼	▼	
Temporary utilities			▼	▼	
Final clean up			▼	▼	
Insurance			▼	▼	
Protection of all finished surfaces (both owner and General Contractor)			▼	▼	
Temporary Labor			▼	▼	
Dumpster			▼	▼	
Closeout Package			▼	▼	
Storage container			▼	▼	Contractor to coordinate and provide storage container for Owner Furnished Items during last 2 weeks of construction
VI. WOOD AND PLASTICS					
Telephone demark cabinet			▼	▼	
Millwork (See remarks at right. See below for responsibility)					GC is responsible for receiving, storing, and protecting all millwork on site. See Millwork sheet for specific sizes and unit details.
Display Shelves	▼			▼	GC to Install
Cash Wrap	▼			▼	GC to Install
Dispensary	▼			▼	GC to Install
Cutting Station	▼			▼	GC to Install
Vanities (Restrooms)			▼	▼	GC Supply and Install
VII. THERMAL & MOISTURE					
Roofing penetrations			▼	▼	
Insulation			▼	▼	
VIII. DOORS AND WINDOWS					
Rear Service door			▼	▼	GC to bring rear door to proper working order
Doors			▼	▼	
Storefront			▼	▼	
IX. FINISHES					
Vinyl flooring			▼	▼	
Concrete Polish			▼	▼	Per Specifications
Bishops Floor Logo			▼	▼	Stencil Provided by Owner
FRP			▼	▼	
Paint			▼	▼	
Tile flooring			▼	▼	
Tile Walls			▼	▼	
Floor protection			▼	▼	Contractor is responsible for protecting flooring from damage/debris after installation.
X. SPECIALTIES					
Grab bars			▼	▼	
Hand towel dispensers in restrooms			▼	▼	
Toilet paper dispensers			▼	▼	
Restroom mirrors			▼	▼	
Cutting Station Mirrors			▼	▼	
ADA & HC tactile signs per city, local and state codes			▼	▼	
Fire extinguishers			▼	▼	
All specialty signage per city or local codes			▼	▼	
XII. FURNISHINGS					
Customer Seating	▼			▼	GC to unload/store/assemble as required. GC to bolt into concrete.
Cutting Station Chairs	▼			▼	GC to unload/store/assemble as required
Shampoo Chairs	▼			▼	GC to unload/store/assemble as required
Mini Refrigerator	▼			▼	GC to unload/store/assemble as required
Hot Towel Cabinet	▼			▼	GC to unload/store/assemble as required
Step Trash Can	▼			▼	GC to unload/store/assemble as required
Hat,Coat and Umbrella Stand	▼			▼	GC to unload/store/assemble as required
Fatigue Mats	▼			▼	GC to unload/store/assemble as required
Safe	▼			▼	GC to unload/store/install as required
Décor	▼	▼			
Signage	▼	▼			GC to Coordinate with Owner Vendors
Storage room shelving	▼			▼	GC to install Owner selected shelving
XV. HVAC					
Thermostats and remote sensors			▼	▼	
HVAC Units			▼	▼	
HVAC Distribution			▼	▼	
HVAC filter & change at construction turn over to Owner			▼	▼	
XV. PLUMBING					
Plumbing Fixtures			▼	▼	
Water Fountain			▼	▼	
Washer/Dryer	▼	▼			
XVI. ELECTRICAL					
Light fixtures			▼	▼	Required lighting supplier - National account
Light fixture Lamps			▼	▼	Required lighting supplier - National account
Fire Alarm system			▼	▼	*If required by code*
Telephone Systems					
Telephone/Internet rough-in			▼	▼	
Telephone/Internet cabling			▼	▼	
Interior Recessed Access Panel - Telephone Board			▼	▼	
Telephone equipment installation	▼	▼			
Telephone backer board at Demark			▼	▼	
Audio Visual System	▼	▼			
All emergency lighting			▼	▼	

SCOPE OF WORK:

1. PROJECT IS A TENANT FINISH-OUT OF AN EXISTING SPACE IN A SHELL RETAIL BUILDING CONSISTING OF A RETAIL AREA AT THE FRONT, HAIR CUTTING STATIONS, A RESTROOM, AND A UTILITY ROOM. THERE IS NO EXTERIOR SCOPE OF WORK.

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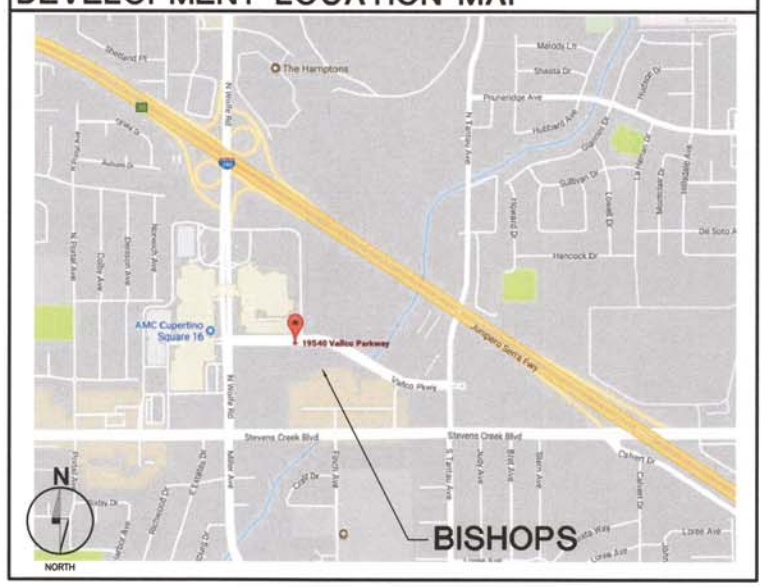
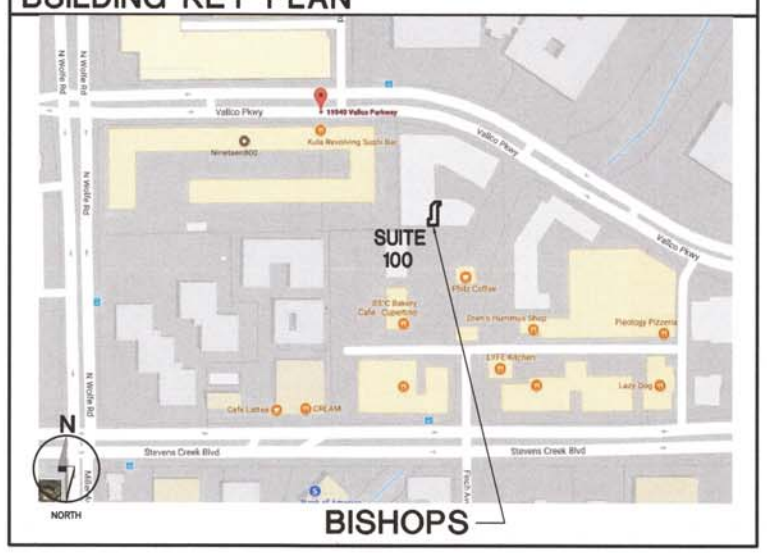
BISHOPS

MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DEVELOPMENT LOCATION MAP



BUILDING KEY PLAN



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STATEWIDE ROOFING
PH: 408-286-7828

FIRE ALARM:
BAY ALARM
PH: 408-785-1182

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NOTES:

1. SHOP DRAWINGS FOR FIRE SPRINKLER AND FIRE ALARM ARE TO BE A DEFERRED SUBMITTAL BY THE SUB-CONTRACTOR PRIOR TO INSTALLATION.
2. SIGN DRAWINGS ARE TO BE A DEFERRED SUBMITTAL BY THE SIGN VENDOR AND MUST SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.

INDEX TO DRAWINGS:

TRADE	SHEET	DESCRIPTION
GENERAL	G001	COVER SHEET
	G002	ADA GUIDELINES
	G003	SYMBOLS, ABBREVIATIONS, GEN NOTES
	G004	SPECIFICATIONS
	G005	CAL-GREEN REQUIREMENTS
ARCHITECTURAL	A001	ARCHITECTURAL SITE PLAN
	D101	DEMOLITION PLAN & LIFE SAFETY & OCCUPANCY PLAN
	A101	FLOOR PLAN & FURNISHING PLAN
	A121	REFLECTED CEILING PLAN, SUSPENDED CEILING DETAILING
	A201	INTERIOR ELEVATIONS
	A601	DOOR SCHED, HARDWARE SCHED, GENERAL DETAILS
	MW01	MILLWORK
MECH	MEP1.0	MEP SPECIFICATIONS
	MEP2.0	ADDITIONAL MEP INFORMATION
	M1.0	MECHANICAL PLANS, SCHEDULES, NOTES
	M1.1	MEP SITE PLAN
	M2.0	SEISMIC MECHANICAL DETAILS
	M2.1	MECHANICAL TITLE 24 SHEETS
	M2.2	MECHANICAL TITLE 24 SHEETS
	M2.3	MECHANICAL TITLE 24 SHEETS
PLUMB	P1.0	PLUMBING SUPPLY & WASTE PLAN
	P1.1	PLUMBING RISERS
ELEC	E1.0	POWER PLAN, SCHEDULE, LIGHTING PLAN
	E2.0	ELECTRICAL SCHEDULE, RISER, T24 NOTES
	E3.0	ELECTRICAL TITLE 24 SHEETS
	E3.1	ELECTRICAL TITLE 24 SHEETS
	E3.2	ELECTRICAL TITLE 24 SHEETS

BUILDING CODE INFORMATION

BUILDING CODE	2016 CALIFORNIA BUILDING CODE VOLUMES 1 & 2
FIRE CODE	2016 CALIFORNIA FIRE CODE
PLUMBING CODE	2016 CALIFORNIA PLUMBING CODE
ELECTRICAL CODE	2016 CALIFORNIA ELECTRICAL CODE
MECHANICAL CODE	2016 CALIFORNIA MECHANICAL CODE
ENERGY CODE	2016 CALIFORNIA ENERGY CODE AND 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
ACCESSIBILITY CODE	TITLE 24 ACCESS REGULATIONS, ANSI 117.1
OCCUPANCY CLASSIFICATION	BUSINESS - GROUP B
SHELL BUILDING CONSTRUCTION TYPE	II-B
FIRE SPRINKLER SYSTEM	FULLY SPRINKLERED
LEASE SQ. FT.	960 SQ.FT.
OCCUPANCY LOAD:	10 OCCUPANTS

BUSINESS: 960 S.F. / 100 = 10 OCCUPANTS

MINIMUM NUMBER OF EXITS REQ'D = 1 — 1 EXIT PROVIDED

PER TABLE 1006.2.1 ONE EXIT IS REQUIRED BASED ON B OCCUPANCY IF THE OCCUPANT LOAD IS LESS THAN 49 AND THE MAX TRAVEL DISTANCE IS LESS THAN 100 FEET. THE MAX DISTANCE IS 66'-0".

MAXIMUM TRAVEL DISTANCE W/ SPRINKLERED SPACE IS 250'
MAXIMUM TRAVEL DISTANCE IN SPACE IS 66'-0"

MINIMUM NUMBER OF PLUMBING FIXTURES (CPC TABLE A & 422.1)

PLUMBING LOAD FACTOR: B - 960 SF/200 = 5 PERSONS, 1 UNISEX FACILITY IS ALLOWED PER 422.2 EXCEPTION 3

WC REQ'D = 1 UNISEX	WC PROVIDED = 1 UNISEX
URINAL REQ'D = 0	URINAL PROVIDED = 0
LAV REQ'D = 1	LAV PROVIDED = 1
WATER FOUNTAIN REQ'D = 1	WATER FOUNTAIN PROVIDED = 1
SERVICE SINK REQ'D = 1	SERVICE SINK PROVIDED = 1

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NO. [illegible]
STATE OF CALIFORNIA

OCT 3 0 2017

BISHOPS - TENANT FINISHOUT
MAIN STREET CUPERTINO
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DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS--NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

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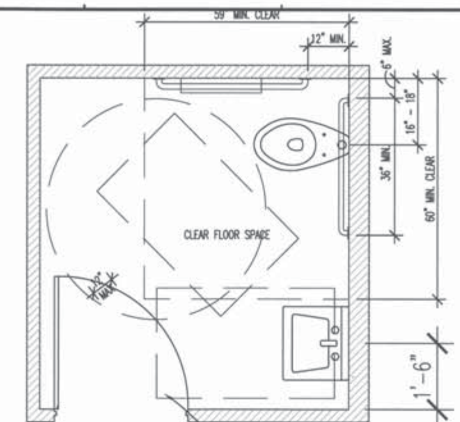
ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
G001

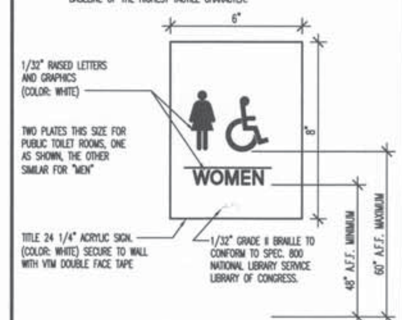
DATE OF THIS PRINTING - 10/26/17



SINGLE USER RR PLAN REQUIREMENTS

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

TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.



ACCESSIBLE COMPLIANCE SIGN

SCALE: 3" = 1'-0"

ACCESSIBILITY NOTES

404.2.7 DOOR AND GATE HARDWARE
HANDLES, PULL, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES (865 MM) MINIMUM AND 44 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

404.2.8.1 DOOR AND GATE CLOSERS
DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

309.4 OPERATION
OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

304 TURNING SPACE
304.2 FLOOR OR GROUND SURFACES OF A TURNING SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.

304.3.1 CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES (1525 MM) DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

305 CLEAR FLOOR OR GROUND SPACE
305.3 SIZE. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES (760 MM) MINIMUM BY 48 INCHES (1220 MM) MINIMUM. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE.

305.4 KNEE AND TOE CLEARANCE. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

604.4 WATER CLOSET
604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

604.5 GRAB BARS
GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND THE REAR WALL.

604.5.1 SIDE WALL
THE SIDE WALL GRAB BAR SHALL BE 42 INCHES (1065 MM) LONG MINIMUM, LOCATED 12 INCHES (305 MM) MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES (1370 MM) MINIMUM FROM THE REAR WALL.

604.5.2 REAR WALL
THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915 MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM) ON ONE SIDE AND 24 INCHES (610 MM) MINIMUM ON THE OTHER SIDE.

605 URINALS
605.2 HEIGHT AND DEPTH. URINALS SHALL BE THE STALL-TYPE OF THE WALL-HUNG TYPE WITH THE RIM 17 INCHES (430 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 ½ INCHES (345 MM) DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.

605.3 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH, SHALL BE PROVIDED.

606 LAVATORIES AND SINKS
606.1 LAVATORIES AND SINKS SHALL COMPLY WITH 606.

606.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

606.3 HEIGHT. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (865 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

606.4 FAUCETS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

606.5 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED UNLESS OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

609 GRAB BARS

609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1½ INCHES (38 MM). THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1½ INCHES (38 MM) MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES (305 MM) MINIMUM.

609.8 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (1112N) IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

CONTRACTOR NOTE:
CONTRACTOR IS TO VERIFY LOCATIONS OF ALL TOILET FIXTURES AND ACCESSORIES FOR COMPLIANCE WITH THESE DIMENSIONS. THOSE FOUND IN VIOLATION OF THESE LOCATIONS SHALL BE REMOVED AND REINSTALLED ACCORDINGLY.

NOTE:
GRAB BARS SHALL HAVE AN OUTSIDE DIA. OF 1 1/2", WITHSTAND A LOAD OF 250 LBS. APPLIED @ ANY POINT DOWNWARD OR VERTICALLY, & SHALL NOT ROTATE WITHIN THEIR FITTINGS.

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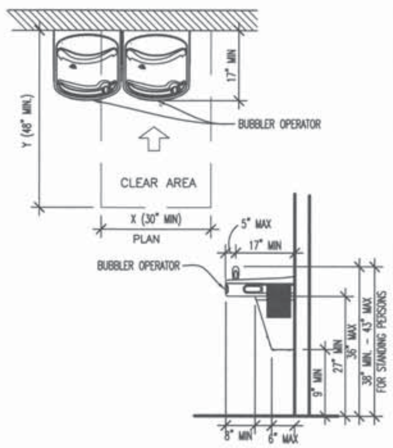
OCT 3 0 2017

BISHOPS

BISHOPS - TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

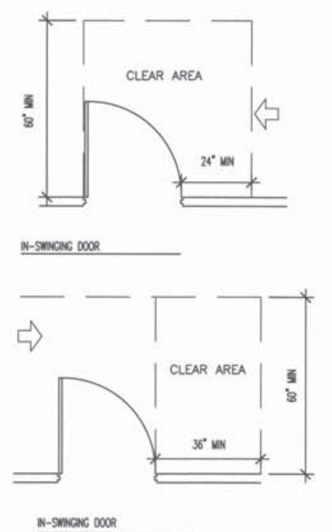
DRINKING FOUNTAIN NOTES:

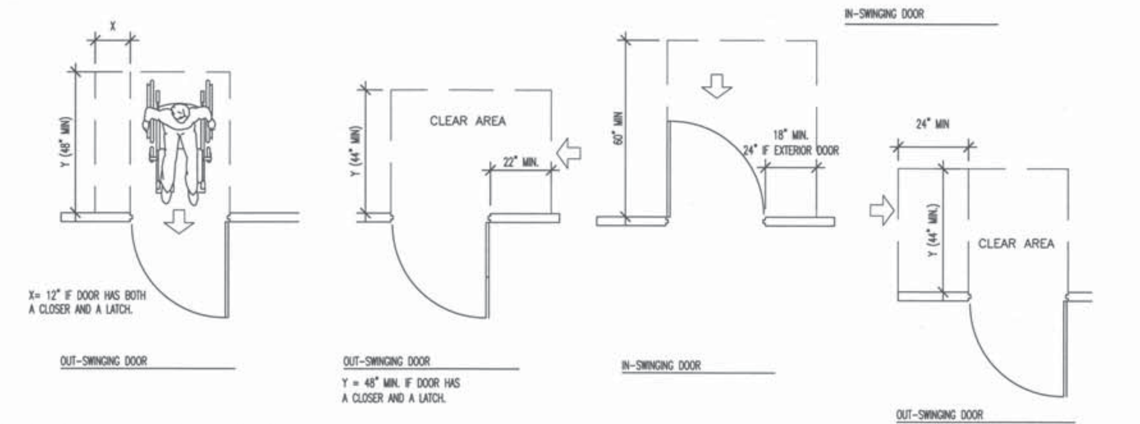
A. BUBBLER SHALL BE ACTIVATED BY A MANUALLY OPERATED SYSTEM THAT IS FRONT MOUNTED OR SIDE MOUNTED AND LOCATED WITHIN 6 INCHES OF THE FRONT EDGE OF THE FOUNTAIN OR AN ELECTRONICALLY CONTROLLED DEVICE. CBC 11B-602.3
B. THE SPOUT OUTLET SHALL BE 36 INCHES ABOVE THE FLOOR, 15" MINIMUM FROM THE VERTICAL SUPPORT AND 6 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT. CBC 11B-602.5
C. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. CBC 11B-602.6
D. DRINKING FOUNTAINS FOR STANDING PERSONS AT 38" MINIMUM TO 43" MAXIMUM ABOVE THE FINISH FLOOR. CBC 11B-602.7



DRINKING FOUNTAIN

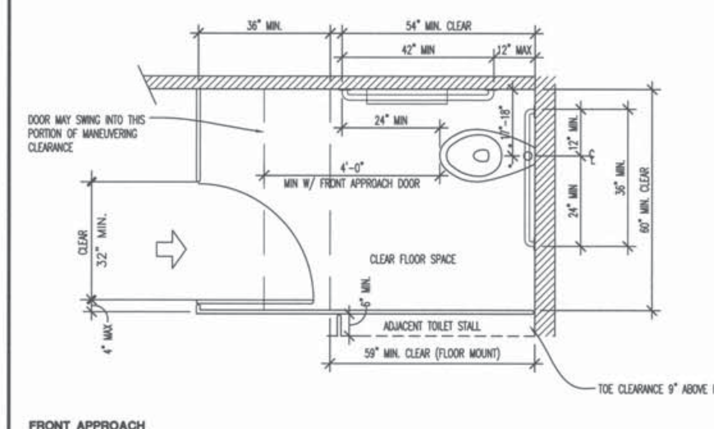
SCALE: 1/2"=1'-0"

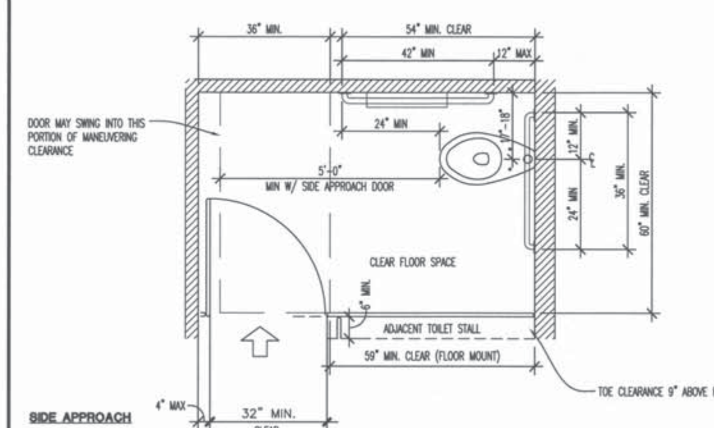




DOOR CLEARANCES

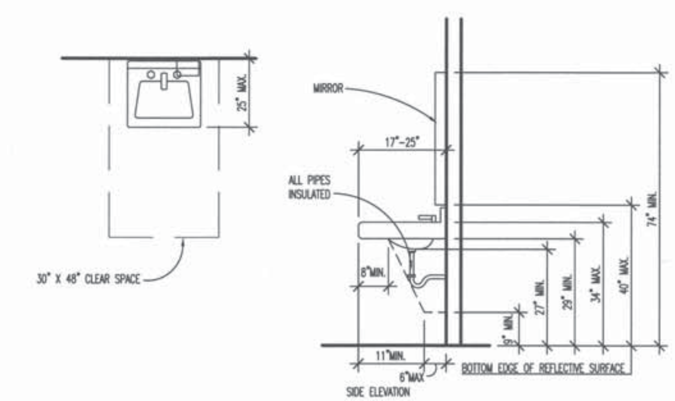
SCALE: 1/2" = 1'-0"





RR PLAN REQUIREMENTS

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



RR CLEARANCES

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

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
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DIMENSIONS-NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

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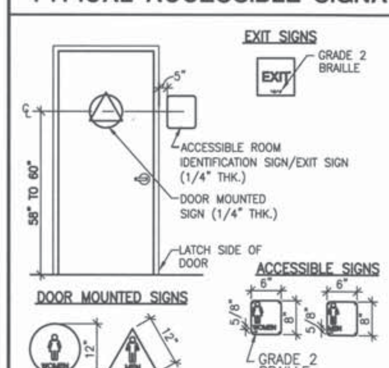
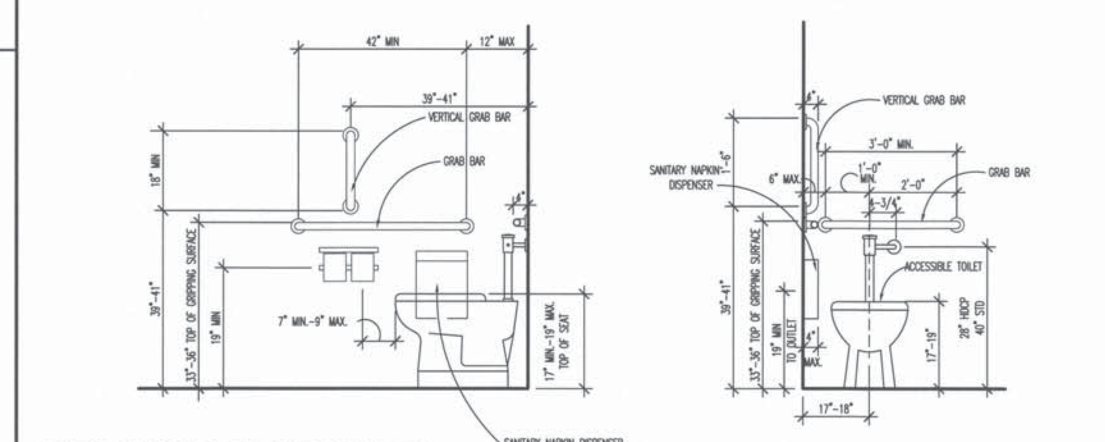
TYPICAL ACCESSIBLE SIGNAGE



- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
- IDENTIFICATION SYMBOLS ARE TO BE ON WALL ADJACENT TO LATCH SIDE OF SINGLE DOOR AND ON THE RIGHT SIDE OF DOUBLE DOORS, CENTERED 58" TO 60" ABOVE FLOOR.
- SIGNS SHALL HAVE NON-GLARE FINISH AND PROVIDE CONTRAST BETWEEN CHARACTER, TEXT, SYMBOLS AND THE BACKGROUND.
- LETTERS & NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN., SHALL BE A MIN. OF 5/8" HIGH & SHALL BE SANS-SERIF UPPERCASE CHARACTERS. ACCESSIBLE SIGNAGE ACCOMPANIED BY GRADE 2 BRAILLE.
- REGULATORY SIGNS TO BE TYPICALLY ACCESSIBLE COMPLIANT TACTILE 3-D PLAQUES PER CODE REQUIREMENTS.
- SIGNS TO BE A TYPICAL ONE PIECE INJECTION MOLDED FABRICATION WITH RAISED SECOND SURFACE GRAPHICS.
- BRAILLE SHOWN IS FOR PLACEMENT ONLY. USE CORRECT BRAILLE FOR SIGN PRODUCTION.

ACCESSIBLE SIGN MOUNTING

SCALE: NTS



RR ELEVATION CLEARANCES

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

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A - TERMS AND ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
ACOUS PNL	ACOUSTICAL PANEL
ADDM	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJACENT (ADJUSTABLE)
AGGR	AGGREGATE
A/C	AIR CONDITION
ALT	ALTERNATE
ALUM	ALUMINUM
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ADA	AMERICANS WITH DISABILITIES ACT
AMT	AMOUNT
AHR	ANCHOR
APPROX	APPROXIMATE
ARCH	ARCHITECT
A/E	ARCHITECT/ENGINEER
AWI	ARCHITECTURAL WOODWORKING INSTITUTE
AD	AREA DRAIN
ASPH	ASPHALT
ABC	ASSOCIATED BUILDERS AND CONTRACTORS
AGC	ASSOCIATED GENERAL CONTRACTORS
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AZ	AZIMUTH

B - TERMS AND ABBREVIATIONS

BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BM	BEAM
BRG	BEARING
BRG PL	BEARING PLATE
BLW	BELOW
BM	BENCHMARK
BITUM	BITUMINOUS
BD	BOARD
BOT	BOTTOM
BLVD	BOULEVARD
BRK	BRICK
BRKT	BRACKET
BRCG	BRACING
BRDG	BRIDGING
BLD	BUILD
BLDG	BUILDING
BOCA	BUILDING OFFICIALS AND CODE ADMINISTRATORS ASSOCIATION INTERNATIONAL
BP	BUILDING PAPER
BLT	BUILT
BLKHD	BULKHEAD

C - TERMS AND ABBREVIATIONS

CAB	CABINET
CTV	CABLE TELEVISION
CAN	CANOPY
CANV	CANVAS
CPT	CARPET
CO	CASED OPENING (CLEAN OUT)
CLG	CEILING
CLG HT	CEILING HEIGHT
CEM	CEMENT
CTR	CENTER
CER	CERAMIC
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTI	CERAMIC TILE INSTITUTE OF AMERICA
CO	CERTIFICATE OF OCCUPANCY
CHFR	CHAMFER
C	CHANNEL
CHK	CHECK
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CLASS	CLASSIFICATION
CLR	CLEAR
CLT	CLEAT
CW	CLOCKWISE
COL	COLUMN
CO	COMPANY
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CNDS	CONDENSATE
CONDN	CONDENSATION
COND	CONDITION (S)
CND	CONDUIT
CONSTR	CONSTRUCTION
CD	CONSTRUCTION DOCUMENTS
CJ	CONSTRUCTION JOINT
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CONSULT	CONSULTANT
CONT	CONTINUE
CONTR	CONTRACT
CD	CONTRACT DOCUMENTS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CNR	CORNER
CG	CORNER GUARD
CORR	CORRIDOR (CORRUGATED)
CNTR	COUNTER
CCW	COUNTERCLOCKWISE
CFLG	COUNTER FLASHING
C&G	CURB AND GUTTER
CUR	CURRENT

D - TERMS AND ABBREVIATIONS

DMPR	DAMPER
DAT	DATUM
dB	DECIBEL
D	DEEP
DEF	DEFINITION
DFLCT	DEFLECTION
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DSGN	DESIGN
DET	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIFF	DIFFERENCE (DIFFUSER)
DIM	DIMENSION
DMR	DIMMER
DC	DIRECT CURRENT
DIR	DIRECTION

D - TERMS AND ABBREVIATIONS

DW	DISHWASHER
DISP	DISPENSER
DIST	DISTANCE
DISTR PNL	DISTRIBUTION PANEL
DOC	DOCUMENT
DR	DOOR
DR FR	DOOR FRAME
DBL	DOUBLE
XXH	DOUBLE EXTRA HEAVY
DS	DOWN SPOUT
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
DX	DUPLEX
DX OUT	DUPLEX OUTLET

E - TERMS AND ABBREVIATIONS

EA	EACH
EW	EACH WAY
ESMT	EASEMENT
EL	EASEMENT LINE
E	EAST
EOS	EDGE OF SLAB
ELAST	ELASTOMERIC
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EP	ELECTRICAL PANEL (PANEL BOARD)
ELEV	ELEVATION
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
EWA	ENGINEERED WOOD ASSOCIATION
ENTR	ENTRANCE
ENVIR	ENVIRONMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCUTCHEON
EST	ESTIMATE
ETC	ET CETERA
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EX	EXAMPLE
EXH	EXHAUST
EXH FN	EXHAUST FAN
EXIST	EXISTING
EXT LT	EXIT LIGHT
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EXP	EXPANSION
EJ	EXPANSION JOINT
EXTN	EXTENSION
EXT	EXTERIOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
XL	EXTRA LARGE
EXTRU	EXTRUSION (EXTRUDED)

F - TERMS AND ABBREVIATIONS

FOC	FACE OF CONCRETE (FACE OF CURB)
FOF	FACE OF FINISH
FOS	FACE OF SLAB (FACE OF STUD)
FACIL	FACILITY
FAX	FACSIMILE
FAS	FASCIA
FSTNR	FASTENER
FT	FEET
FRP	FIBERGLASS REINFORCED PLASTIC
FV	FIELD VERIFY
FIN	FINISH
FF	FINISH FACE
FIN FLR	FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FIN GR	FINISH GRADE
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FE	FIRE EXTINGUISHER
FR	FIRE RESISTANT
FRTW	FIRE RETARDANT TREATED WOOD
FIXT	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FAR	FLOOR AREA RATIO
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FLR FIN	FLOOR FINISH
FLUOR	FLUORESCENT
FT	FOOT
FTG	FOOTING
FDTN	FOUNDATION
FR	FRAME (FRAMED) (FRAMING)
FRWY	FREEWAY
FS	FULL SCALE
FURN	FURNISH
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT

G - TERMS AND ABBREVIATIONS

GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GEN	GENERAL
GEN COND	GENERAL CONDITIONS
GC	GENERAL CONTRACTOR
GL	GLASS
GFRC	GLASS FIBER REINFORCED CONCRETE
GLU LAM	GLUED LAMINATED WOOD
GB	GRAB BAR
GR BM	GRADE BEAM
GRAN	GRANITE
GROM	GROMMET
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GYP	GYPSUM
GYP BD	GYPSUM BOARD

H - TERMS AND ABBREVIATIONS

HD	HAND DRYER
HC	HANDICAP
HNDRL	HANDRAIL
HGR	HANGER
HDW	HARDWARE
HDR	HEADER
HVY	HEAVY
HT	HEIGHT
HWY	HIGHWAY
HO	HOLD OPEN
HLDN	HOLDDOWN
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIBB
HW	HOT WATER
HYD	HYDRANT

I - TERMS AND ABBREVIATIONS

ID	IDENTIFICATION
ILLUM	ILLUMINATION
INCAND	INCANDESCENT
ID	INSIDE DIAMETER (INSIDE DIMENSION)
INSTL	INSTALL
IGL	INSULATED GLASS
INSUL	INSULATION
INT	INTERIOR
IBC	INTERNATIONAL BUILDING CODE
INV	INVERT

J - TERMS AND ABBREVIATIONS

JAN	JANITOR
J-BOX	JUNCTION BOX
JST	JOIST

K - TERMS AND ABBREVIATIONS

KES	KITCHEN EQUIPMENT SUPPLIER
KIT	KITCHEN

L - TERMS AND ABBREVIATIONS

LRG	LARGE
LAV	LAVATORY
LS	LANDSCAPE
LDR	LEADER
LT	LIGHT
LTG	LIGHTING
LF	LINEAR FEET (FOOT)
LIQ	LIQUID
LVR	LOUVER
LS	LUMP SUM

M - TERMS AND ABBREVIATIONS

MH	MANHOLE
MFD	MANUFACTURED
MFR	MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MFG	MANUFACTURING
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDIUM
MEL	MELAMINE
MBR	MEMBER
MEMB	MEMBRANE
MWP	MEMBRANE WATERPROOFING
MTL	METAL
METF	METAL FLASHING
MIRR	MIRROR
MISC	MISCELLANEOUS
MOD BIT	MODIFIED BITUMEN
MLDG	MOLDING (MOULDING)
MS	MOP SINK
MTD	MOUNTED
MULL	MULLION

N - TERMS AND ABBREVIATIONS

NBC	NATIONAL BUILDING CODE
NEC	NATIONAL ELECTRICAL CODE
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
G	NATURAL GAS
NEG	NEGATIVE
NOM	NOMINAL
N	NORTH
NA	NOT APPLICABLE
NTS	NOT TO SCALE
NTP	NOTICE TO PROCEED
NO	NUMBER

O - TERMS AND ABBREVIATIONS

OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OCC	OCCUPY (OCCUPANCY)
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OPNG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
ORIG	ORIGINAL
OZ	OUNCE
OD	OUTSIDE DIAMETER
OA	OVERALL
OFD	OVERFLOW DRAIN
ORD	OVERFLOW ROOF DRAIN
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/OI	OWNER FUNISHED/OWNER INSTALLED

P - TERMS AND ABBREVIATIONS

PNT	PAINT
PR	PAIR
PNL	PANEL
PAR	PARALLEL
PARPT	PARAPET
PRKG	PARKING
PKWY	PARKWAY
PTN	PARTITION
PAT	PATTERN
PVG	PAVING
D	PENNY (NAIL)
PERP	PERPENDICULAR
PH	PHASE
PC	PIECE
PLAS	PLASTER / PLASTIC
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
LB	POUND
PWR	POWER
PREFAB	PREFABRICATE
PT	PRESSURE TREATED
PROJ	PROJECT
PROP	PROPERTY
PL	PROPERTY LINE
PB	PULL BOX
PS	PULL STATION

Q - TERMS AND ABBREVIATIONS

QC	QUALITY CONTROL
QCR	QUALITY CONTROL REVIEW
QTY	QUANTITY
QT	QUARRY TILE

R - TERMS AND ABBREVIATIONS

R	RADIUS
REC	RECESSED
REFL	REFLECT (ED)
RCP	REFLECTED CEILING PLAN
REBAR	REINFORCING STEEL BARS
RFI	REQUEST FOR INFORMATION
REQ	REQUIRE (MENT)
REQD	REQUIRED
RESIL	RESILIENT
RB	RESILIENT BASE
REST	REST ROOM
RA	RETURN AIR
RVL	REVEAL
REV	REVISION
ROW	RIGHT OF WAY
RDG INS	RIGID INSULATION, SOLID
RD	ROAD
RM	ROOM
RFG	ROOFING
RO	ROUGH OPENING
RS	ROUGH SAWN
RND	ROUND

S - TERMS AND ABBREVIATIONS

SAN	SANITARY
SLNT	SEALANT
SND	SOUND
SCHED	SCHEDULE
SCP	SCUPPER
SH	SHELVING (SHELF)
SDG	SIDING
SD	SOAP DISPENSER
SC	SOLID CORE
SND INS	SOUND INSULATION
STC	SOUND TRANSMISSION GLASS
S	SOUTH
SPKR	SPEAKER
SPKLR	SPRINKLER
SPCL	SPECIAL
SQ	SQUARE
SF	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SST	STAINLESS STEEL
STD	STANDARD
SS	STANDING SEAM
STL JST	STEEL JOIST
STL LNTL	STEEL LINTEL
STL PL	STEEL PLATE
STOR	STORAGE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SS	STORM SEWER
ST	STREET
STRUCT	STRUCTURAL
SUP	SUPPLEMENTARY
SUSP CLG	SUSPENDED CEILING
SYM	SYMBOL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM

T - TERMS AND ABBREVIATIONS

TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPERATURE (TEMPERED)
TMPD GL	TEMPERED GLASS
TIGL	TEMPERED INSULATED GLASS
TEMP	TEMPORARY
TB-XX	TEST BORING-XX (E.G. TB-01)
THERM	THERMAL
THK	THICKNESS (THICK)
THRES	THRESHOLD
THRU	THROUGH
TPD	TOILET PAPER DISPENSER
TOL	TOLERANCE
T&G	TONGUE AND GROOVE
T&B	TOP AND BOTTOM
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOC	TOP OF CURB
TFF	TOP OF FINISH FLOOR
TO FDN	TOP OF FOUNDATION
TOF	TOP OF FRAME (ING)
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET (TOP OF PAVEMENT)
TOS	TOP OF SLAB (TOP OF STEEL)
TOT	TOP OF TRUSS
TOPO	TOPOGRAPHY
TD	TOWEL DISPENSER
XFER	TRANSFER
XFMR	TRANSFORMER
TRANS	TRANSPARENT
T	TREAD
TRTD	TREATED
TD	TRENCH DRAIN
TN	TRUE NORTH
TS	TUBE STEEL
TRNBKL	TURNBUCKLE
TYP	TYPICAL

U - TERMS AND ABBREVIATIONS

UL	UNDERWRITERS LABORATORIES
UBC	UNIFORM BUILDING CODE
UFC	UNIFORM FIRE CODE
UMC	UNIFORM MECHANICAL CODE
UPC	UNIFORM PLUMBING CODE
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UTIL	UTILITY

V - TERMS AND ABBREVIATIONS

VAR	VARIATION (VERIFY) (VARIES)
VNR	VENEER
VP	VENEER PLASTER
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
VOLT	VOLTAGE

W - TERMS AND ABBREVIATIONS

WSCT	WAINSCOT
WCO	WALL CLEAN OUT
WC	WATER CLOSET
WH	WATER HEATER
WP	WATERPROOFING (WEATHERPROOF)
WS	WEATHERSTRIP
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
W	WEST
WDW	WINDOW
WGL	WIRE GLASS
W/	WITH
W/O	WITHOUT
WD	WOOD

GENERAL NOTES:

1. CONTRACTOR SHALL, PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING PROJECT CONDITIONS, INCLUDING DIMENSIONS AND UTILITY LOCATIONS AND UTILITY SIZES.

   FIELD CONFIRMATION OF DISCREPANCIES SHALL BE RECORDED ON A REPRODUCIBLE DOCUMENT AND IMMEDIATELY TRANSMITTED TO ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

   CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL WORK AND MATERIALS – INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.

   WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES; DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES, PRIOR TO CONTINUING WITH WORK.

   ALL DIMENSIONS ON PLANS ARE TO CENTERLINE OF WALLS AND COLUMNS, AND FACE OF FINISH (FOF) OR FACE OF MASONRY (FOM), UNLESS NOTED OTHERWISE.

2. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF ALL APPLICABLE BUILDING CODES, REFER TO PROJECT DATA, THE AMERICANS WITH DISABILITIES ACT, AS WELL AS ALL OTHER LOCAL GOVERNING CODES AND ORDINANCES.

3. CONTRACTOR SHALL REPORT TO THE OWNER ANY ERRORS, OMISSIONS, OR INCONSISTENCIES HE MAY DISCOVER ON THE SPECIFICATIONS OR DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ERROR AFTER THE START OF CONSTRUCTION, WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY THE OWNER.

   THE GENERAL BUILDING PERMITS SHALL BE PAID FOR BY THE OWNER AND SECURED BY THE GENERAL CONTRACTOR. ALL OTHER REQUIRED PERMITS SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR OR SUBCONTRACTOR DIRECTLY RESPONSIBLE.

   ALL REQUIRED CITY AND COUNTY LICENSES SHALL BE ACQUIRED AND PAID FOR BY THE INDIVIDUAL TRADES.

   ALL CONTRACTORS SHALL HAVE VALID CERTIFICATES OF WORKMAN'S COMPENSATION ON FILE WITH THE APPROPRIATE AGENCIES. INSURANCE REQUIREMENT MUST BE MET PER LEASE AGREEMENT

5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR THE REPAIR OR REPLACEMENT OF UTILITIES AND ALL OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH EXECUTION OF WORK.

6. CONTRACTOR SHALL PROVIDE TEMPORARY FIELD OFFICE, TELEPHONES, FAX MACHINE, TEMPORARY SECURITY FENCE, WATER, POWER, AND TOILET FACILITIES. COORDINATE LOCATIONS WITH ALL APPROPRIATE AGENCIES. FIELD OFFICE SHALL ALSO CONTAIN CURRENT COPIES OF ALL GOVERNING BUILDING CODES AND AMENDMENTS.

7. CITY APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE (1) COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE JOB IS IN PROGRESS UNTIL WORK IS COMPLETE.

9. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN AND ORDERLY MANNER. ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN BROOM-CLEAN CONDITION AT ALL TIMES. CONTRACTOR SHALL LOCATE AND MAINTAIN A TRASH BIN AT THE SITE. SUCH BIN SHALL BE OF ADEQUATE DIMENSION TO KEEP SITE CLEAN AT ALL TIMES. DUST RESULTING FROM SALVAGE, DEMOLITION AND REMOVAL WORK SHALL BE CONTROLLED TO PREVENT THE IMPOSITION OF A NUISANCE OR HAZARDOUS CONDITION TO THE ADJOINING PORTION OF THE PROJECT. THE USE OF WATER WILL NOT BE PERMITTED WHEN SUCH USE WOULD RESULT IN HAZARDOUS, OR OTHERWISE OBJECTIONABLE CONDITIONS.

10. CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES.

11. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.

    CONTRACTOR SHALL PROVIDE REQUIRED PROTECTION INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, AND ALL OTHER SUPPORTS (INCLUDING ENGINEERING OF SYSTEMS) NECESSARY TO MAINTAIN OVERALL STRUCTURAL INTEGRITY OF THE BUILDING.

    ALL DEMOLITION AND CUTTING SHALL BE PERFORMED IN A MANNER AND BY METHODS WHICH ENSURE AGAINST DAMAGE TO EXISTING WORK.

12. INTERIOR WALL AND CEILING FINISHES SHALL NOT EXCEED FLAME SPREAD CLASSIFICATIONS DICTATED BY ALL APPLICABLE BUILDING CODES.

13. NO STRUCTURAL MEMBERS SHALL BE CUT TO ACCEPT PIPES, VENTS, DUCTS, OR OTHER PENETRATIONS, EXCEPT AS DETAILED OR SPECIFIED HEREIN.

14. GYPSUM BOARD AND SUSPENDED CEILING SYSTEMS SHALL CONFORM TO ALL LOCAL GOVERNING BUILDING CODES AND ORDINANCES.

15. ALL GLASS AND GLAZING SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AS WELL AS THE U.S. CONSUMER PRODUCT SAFETY COMMISSION, SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (47 FR, 13516 TITLE NO. 16, CHAPTER 11, PART 1201).

16. CONTRACTOR SHALL ASSIST OWNER IN OBTAINING FINAL APPROVAL OF LOCAL JURISDICTION AND THE TEMPORARY AND FINAL CERTIFICATES OF OCCUPANCY.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REMEDY, REPAIR, OR REPLACE ANY FAULTY, IMPROPER OR INFERIOR WORKMANSHIP OR MATERIALS AND ANY RELATED DAMAGE CAUSED BY THESE WHICH SHALL APPEAR WITHIN ONE (1) YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK UNDER THIS CONTRACT. REFER TO SPECIFICATIONS FOR WARRANTY REQUIREMENTS IN EXCESS OF ONE (1) YEAR.

    IN ADDITION TO EQUIPMENT WARRANTIES, GC SHALL FURNISH OWNER A WRITTEN GUARANTEE AGAINST LATENT AND PATENT DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR. GUARANTEE SHALL INCLUDE REPAIR, DAMAGE TO, OR REPLACEMENT OF, ANY PART OF EQUIPMENT PROVIDED.

18. PIPES, CONDUITS, OR DUCTS EXCEEDING ONE THIRD OF THE SLAB OR MEMBER THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS FOR LOCATION OF SLEEVES AND OTHER ACCESSORIES.

19. ALL ELECTRICAL, MECHANICAL, AND PLUMBING WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION.

20. ALL EQUIPMENT ON THE A&E DRAWINGS IS TO BE EXCLUDED FROM THE GENERAL CONTRACT UNLESS OTHERWISE STATED. BACKING, ROUGH-INS, AND FINAL HOOK-UPS ARE A PART OF THE GENERAL CONTRACT. ALL PLUMBING FIXTURE VACUUM BREAKERS NECESSARY, PER LOCAL CODE REQUIREMENTS, ARE TO BE SUPPLIED WITH EQUIPMENT. ELECTRICAL CONNECTIONS AND DISCONNECTS NECESSARY TO MEET LOCAL CODE REQUIREMENTS WILL BE SUPPLIED WITH EQUIPMENT WITH FINAL HOOK-UPS ONLY BY CONTRACTOR.

21. CONTRACTOR SHALL PROVIDE BACKING FOR SUPPORT OF ALL WALL, CEILING, AND PARTITION MOUNTED ITEMS SUCH AS TABLE BRACKETS, LIGHT FIXTURES, ARTIFACTS, SHELVING, EQUIPMENT, AND TELEVISIONS. COORDINATE LOCATIONS AND REQUIREMENTS WITH THE PLUMBING, MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS AS WELL AS INTERIOR DESIGN CONSULTANT AND OWNER.

22. CONTRACTOR SHALL VERIFY LOCATIONS OF EQUIPMENT AND COORDINATE LOCATIONS OF FLOOR SINKS, FLOOR DRAINS, TROUGH DRAINS, SLAB DEPRESSIONS, RAISED CURBS, ELECTRICAL STUB-OUTS, PLUMBING STUB-OUTS, AND ALL OTHER WORK UNDER THE SCOPE OF RESPONSIBILITIES RELATED TO THIS EQUIPMENT. REFER TO EQUIPMENT ON A&E DRAWINGS FOR ADDITIONAL INFORMATION.

23. PROVIDE ATTIC DRAFT STOPS AND VENTILATION IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES.

24. ALL PAINT COLOR AND/OR MATERIAL TRANSITIONS ARE TO OCCUR AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).

25. COMPLETE SHOP DRAWINGS AND EQUIPMENT SUBMITTALS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND COMMENT PRIOR TO FABRICATION OR ORDERING OF ANY EQUIPMENT, FIXTURES, MATERIALS, OR ASSEMBLIES.

    OWNER'S REPRESENTATIVE OR ARCHITECT WILL REVIEW AND COMMENT ON ALL SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH THE DESIGN INTENT OF THE PROJECT ONLY. THE APPROVAL OF A SINGLE COMPONENT SHALL NOT INDICATE THE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.

    ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE ROUTED THROUGH THE CONTRACTOR. NO DOCUMENTS SHALL BE SUBMITTED DIRECTLY TO THE ARCHITECT, OR TO THE ARCHITECT'S CONSULTANTS. WHEN SHOP DRAWINGS INVOLVE MANUFACTURER'S DATA OR MATERIAL LIST, SUBMIT A MINIMUM OF FIVE COPIES FOR REVIEW AND COMMENT.

26. EXTERIOR OPENINGS SHALL COMPLY WITH ALL SECURITY REQUIREMENTS AS OUTLINED IN ALL LOCAL BUILDING CODES AND ORDINANCES.

27. ACCURATE AS-BUILT DRAWINGS SHALL BE GENERATED BY CONTRACTOR DURING CONSTRUCTION AND SUBMITTED TO OWNER UPON COMPLETION OF FINAL PUNCH LIST, BUT PRIOR TO REQUEST FOR FINAL PAYMENT. WITHIN TWO WEEKS AFTER C.O. IS ACQUIRED.

28. FOUR (4) SETS OF EQUIPMENT OPERATING AND MAINTENANCE MANUALS SHALL BE SUBMITTED TO THE OWNER UPON COMPLETION OF PROJECT, BUT PRIOR TO REQUEST FOR FINAL PAYMENT. WITHIN TWO WEEKS AFTER C.O. IS ACQUIRED.

29. CONTRACTOR SHALL NOT ALLOW ANY PERSON TO DESCEND INTO ANY TRENCH OR HOLE, OR CREATE ANY SUCH EXCAVATIONS, WITHOUT THE PRIOR APPROVAL OF BUILDING DEPARTMENT AS WELL AS ALL OTHER AGENCIES HAVING JURISDICTION.

30. VERIFY FIRE EXTINGUISHER REQUIREMENTS AND LOCATIONS WITH FIRE MARSHAL AND OWNER'S REPRESENTATIVE.

31. CONTRACTOR SHALL SEAL ALL GAPS, HOLES, AND CRACKS IN BUILDING CONSTRUCTION AS REQUIRED TO CONTROL INFILTRATION OF INSECTS.

32. CONTRACTOR SHALL INSTRUCT SUBCONTRACTORS TO CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS IN THEIR ENTIRETY. INFORMATION REGARDING COMPLETE WORK OF SPECIFIC TRADES AND SUB-TRADES IS DISPERSED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS AND CANNOT BE DETERMINED BY REFERENCE TO ANYTHING OTHER THAN COMPLETE SETS OF DOCUMENTS.

33. NOTHING IN THESE DOCUMENTS IS TO BE INTERPRETED AS RELIEVING THE CONTRACTOR OF SOLE RESPONSIBILITY FOR THE METHODS AND MEANS OF CONSTRUCTION, AS WELL AS SAFETY AT THE JOB SITE.

34. CONTRACTOR TO STORE OWNER SUPPLIED ITEMS AND PROTECT FROM DAMAGE OR LOSS.

DRAWING SYMBOLS LEGEND:

WALL SECTION OR BUILDING SECTION KEY

DETAIL KEY
REFER SECTION KEY FOR DESIGNATION INFORMATION

ELEVATION VIEW KEY
REFER SECTION KEY FOR DESIGNATION INFORMATION

MATERIAL / FINISH KEY

DIMENSION TO FACE OF FINISH OR EDGE OF SLAB UNLESS OTHERWISE NOTED

DIMENSION TO CENTERLINE OF COLUMN OR CENTERLINE OF DIMENSIONED ITEM

REVISION TO DRAWING

DETAIL REFERENCES
REFER SECTION KEY FOR DESIGNATION INFORMATION

ROOM NAME / SPACE NUMBER

WINDOW DESIGNATION

DOOR DESIGNATION

COLUMN REFERENCE DESIGNATION

DRAWING TITLE & SCALE INDICATION

WALL TYPES

ROOM FINISH TAG

GHA
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F. ANDREW GERDES
OCT 3 0 2017

BISHOPS
BISHOPS - TENANT FINISHOUT
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SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
ALL EXISTING CONDITIONS AND
DIMENSIONS–NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

NO	REVISION

ISSUE

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ARCHITECTURAL SPECIFICATIONS

1.0 GENERAL CONDITION

1.1 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE HIGHEST QUALITY STANDARDS OF THE INDUSTRY FOR MATERIAL, CRAFTSMANSHIP AND INSTALLATION OF EACH TRADE.

1.2 ANY DISCREPANCIES IN DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

1.3 THE CONTRACTOR SHALL PROVIDE THE ARCHITECT AND CONSTRUCTION MANAGER WITH SCHEDULING INFORMATION PRIOR TO CONSTRUCTION THAT WILL BE UPDATED IF THERE ARE ANY CHANGES.

1.4 ALL WORK PERFORMED TO BE IN STRICT COMPLIANCE WITH GOVERNING FEDERAL, STATE, AND LOCAL BUILDING CODE REQUIREMENTS, EXECUTED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS, AND CONFORM TO SPECIFIC REGULATIONS AS MANDATED BY THE LANDLORD, CONSTRUCTION MANAGER, AND ARCHITECT.

1.5 SUBMIT FOR APPROVAL, PRIOR TO FABRICATION OR PURCHASE, SHOP DRAWINGS AND/OR SAMPLES FOR ITEMS REQUESTED BY THE ARCHITECT OR THE CONSTRUCTION MANAGER.

1.6 UNLESS NOTED, EXISTING CONSTRUCTION, MATERIALS AND FINISHES SHALL REMAIN. ANY DAMAGE DONE TO THESE ITEMS SHALL BE REPAIRED TO THE ORIGINAL CONDITION BY A MEANS APPROVED BY THE CONSTRUCTION MANAGER.

1.7 BUILDING SITE BEHAVIOR:

A. WHILE ON SITE, CONSTRUCTION WORKERS WILL BE CONFINED TO THE CONSTRUCTION AREA ONLY.

B. ANY CONSTRUCTION WORKER CAUGHT STEALING, DRINKING ALCOHOL, OR USING ILLEGAL SUBSTANCE WILL BE IMMEDIATELY BANNED FROM THE BUILDING. A PROFESSIONAL MANNER IS EXPECTED IN ALL PUBLIC AREAS AND INAPPROPRIATE LANGUAGE OR COMMENTS WILL NOT BE TOLERATED.

C. NO COOKING OF ANY KIND WILL BE ALLOWED ON THE SITE.

D. ABSOLUTELY NO FOOD OR BEVERAGES OR SMOKING WILL BE ALLOWED ON THE CONSTRUCTION SITE AFTER PAINTING OR INSTALLATION OF CARPET HAS BEGUN.

1.8 ALL COMMUNICATION REQUIRED SHALL BE THROUGH THE CONSTRUCTION MANAGER AT THE START OF CONSTRUCTION.

1.9 PROVIDE SUBMITTAL OF ALL FINISH MATERIALS NOT PROVIDED BY THE CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO PURCHASE ORDER.

1.10 THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN THE WORK AND PAY FOR ANY DAMAGE OR OTHER WORK RESULTING THERE FROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THIS DATE OR FINAL ACCEPTANCE UNLESS A LONGER PERIOD IS OTHERWISE SPECIFIED OR A DIFFERENCE WARRANTY PERIOD HAS BEEN ESTABLISHED IN THE SUBSTANTIAL COMPLETION CERTIFICATION.

1.11 ALL CUTTING, CORING, DRILLING AND PATCHING REQUIRED FOR THE INSTALLATION OF SYSTEMS HEREIN DESCRIBED, SHALL BE PROVIDED BY THE CONTRACTOR. STRUCTURAL MEMBERS SHALL NOT BE DISTURBED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/CONSTRUCTION MANAGER. ALL AREAS DISTURBED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE NEATLY REPAIRED AND REFINISHED TO THE CONDITION OF ADJOINING SURFACES IN A SUITABLE MANNER TO THE ARCHITECT/CONSTRUCTION MANAGER.

A. WHERE CUTTING OR CORING IS NECESSARY, IT SHALL BE DONE BY METHODS WHICH WILL NOT DAMAGE THE STRUCTURE, AND SHALL BE SUBJECT TO PRIOR WRITTEN APPROVAL OF THE ARCHITECT. ANY DAMAGE TO STRUCTURE OR FINISHED SURFACES SHALL BE REPAIRED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL PAY ALL COST ASSOCIATED WITH OBTAINING APPROVAL OF CUTTING OR CORE DRILLING OF EXISTING STRUCTURE FROM A REGISTERED ENGINEER.

1.12 THE DRAWINGS SHALL SERVE AS WORKING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT. HOWEVER LAYOUT OF EQUIPMENT, ACCESSORIES, SPECIALTIES (INCLUDING FURNITURE),AND CONDUIT SYSTEMS ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. IF ADDITIONAL JUNCTION BOX, PULL BOX, OR OTHER SIMILAR ITEMS ARE REQUIRED TO COMPLETE AN INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF THE ADDITIONAL WORK AND COST PRIOR TO PROCEEDING. FAILURE TO NOTIFY CONSTRUCTION MANAGER IN ADVANCE BEFORE CHANGES ARE MADE WILL RESULT IN CHANGES BEING DONE SOLELY AT CONTRACTOR'S EXPENSE.

1.13 ALL SCALE DIMENSIONS ARE APPROXIMATE. BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND CONSTRUCTION MANAGER. FAILURE TO NOTIFY CONSTRUCTION MANAGER IN ADVANCE BEFORE CHANGES ARE MADE WILL RESULT IN CHANGES BEING DONE SOLELY AT CONTRACTOR'S EXPENSE.

1.14 CONTRACTOR MAY SUBSTITUTE AND INCLUDE IN HIS BID PRICE A MATERIAL OR PRODUCT OTHER THAN THOSE SPECIFIED BY NAME OR BRAND, PROVIDED THAT REQUESTS ARE SUBMITTED AND APPROVED IN WRITING BY THE ARCHITECT.

1.15 THE REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITIES FOR ERRORS, OMISSIONS OR DEVIATIONS FROM THE CONTRACT DOCUMENTS, UNLESS IN WRITING THEY ARE CALLED OUT AT THE TIME SUBMISSION AND WRITTEN ACCEPTANCE. THE CONTRACTOR IS RESPONSIBLE FOR DETAILS, SIZE OF THE MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS, AND FOR COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS AND ADJACENT WORK. ERRORS AND OMISSIONS DISCOVERED AT A LATER TIME MUST BE FIXED BY THE CONTRACTOR SOLELY AT CONTRACTOR'S EXPENSE.

1.16 ALL SHOP DRAWINGS PREPARED BY THE MANUFACTURER MUST BE PRE-CHECKED BY THE CONTRACTOR. THE CONTRACTOR'S STAMP OF APPROVAL AND DATE MUST BE INCLUDED WITH A SPECIFICATION PARAGRAPH IN WHICH SUBMITTED AND THE PROJECT NAME. SUBMITTALS NOT CONTAINING THE ABOVE INFORMATION WILL BE RETURNED WITHOUT ACTION.

1.17 THE CONTRACTOR SHALL MAINTAIN ON SITE UP-TO-DATE COMPLETE "RECORD" SET OF PRINTS WHICH ARE CORRECTED DAILY WITH ALL CHANGES IN LAYOUT FROM THE ORIGINAL DRAWINGS AND SPECIFICATIONS, INCLUDING MEP. CONTRACTOR SHALL DELIVER "RECORD" SET TO CONSTRUCTION MANAGER PRIOR TO FINAL PAYMENT.

1.18 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE PROCUREMENT OF ALL REQUIRED AND NECESSARY PERMITS AND APPROVALS PRIOR TO THE COMMENCEMENT OF ANY WORK AND CERTIFICATE OF OCCUPANCY UPON COMPLETION OF PROJECT. CONTRACTOR IS RESPONSIBLE FOR THE FEES ASSOCIATED WITH PROCURING SUCH PERMITS AND SHALL FURNISH COPIES OF PERMITS, INSPECTIONS AND CERTIFICATES TO THE CONSTRUCTION MANAGER UPON REQUEST.

1.19 CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES EVEN IF THE TRADE IS UNDER A SEPARATE CONTRACT. CONTRACTOR SHALL SUBMIT A LIST OF EACH SUBCONTRACTOR'S NAME, CONTACT, ADDRESS AND TELEPHONE NUMBER TO THE CONSTRUCTION MANAGER PRIOR TO BEGINNING CONSTRUCTION.

1.20 PRIOR TO BEGINNING DEMOLITION AND/OR CONSTRUCTION, CONTRACTOR SHALL VERIFY THAT ALL EXISTING HORIZONTAL AND VERTICAL DIMENSIONS; INTERIOR, EXTERIOR AND DEMISING WALLS; STOREFRONTS, DOORS AND WINDOWS; STRUCTURAL COMPONENTS; FLOOR AND CEILING SYSTEMS; PLUMBING, ELECTRICAL FIXTURES, UTILITIES AND MECHANICAL SYSTEMS ARE AS INDICATED ON THE CONSTRUCTION DOCUMENTS, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN WRITING. ADDITIONAL WORK REQUIRED DUE TO DISCREPANCIES NOT REPORTED TO THE ARCHITECT SHALL BE PERFORMED AT CONTRACTOR'S EXPENSE.

1.21 EXTRA WORK OR CHANGES IN THE WORK NOT CALLED OUT FOR IN THE DRAWINGS OR SPECIFICATIONS SHALL BE PERFORMED ONLY WITH WRITTEN AUTHORIZATION FROM THE ARCHITECT AND THE CONSTRUCTION MANAGER.

1.22 CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP THE BUILDING AREAS CLEAN AND SAFE DURING CONSTRUCTION PERIOD. CONTRACTOR SHALL USE WALK-OFF MATS TO PROTECT FLOORING. CONTRACTOR AND ITS SUBCONTRACTORS SHALL PREVENT NOISE, DUST, SMOKE AND ODORS FROM INTERFERING WITH THE NORMAL OPERATIONS OF THE SHOPPING CENTER.

A. CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE SITE PER THE SHOPPING CENTER GUIDELINES. THE SITE AREA SHALL BE KEPT CLEAN AND ORGANIZED AT ALL TIMES.

B. BEFORE ANY DEMOLITION AND/OR CONSTRUCTION WORK MAY BEGIN, THE CONTRACTOR MUST DETERMINE WHETHER SUCH WORK MAY TRIGGER THE FIRE ALARM SYSTEM. IT WILL BE NECESSARY FOR THE CONTRACTOR TO NOTIFY THE SHOPPING CENTER OFFICE SO THE SYSTEM CAN BE REMOVED AND RESTORED TO SERVICE UPON COMPLETION OF THE ACTIVITY.

C. CONTRACTOR WILL PLACE SMOKE DETECTOR DUST BAGS ON THE DETECTORS IN THE AREAS WHERE PRODUCTION OF DUST WILL OCCUR. THE DUST BAGS MUST BE REMOVED AT THE END OF EACH WORKING DAY. CONTRACTORS WILL NOTIFY THE SHOPPING CENTER OFFICE BEFORE PLACING AND REMOVING DUST BAGS TO PREVENT FALSE ALARMS.

D. ALL WALL, FLOOR OR CEILING PENETRATIONS SHALL BE SLEEVED AND ADEQUATELY SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE PER APPLICABLE CODES. THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION WHEN WORK CANNOT BE COMPLETED IN ONE WORK SHIFT.

E. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF FIRE EXTINGUISHERS IN THE WORK AREA THROUGHOUT THE CONSTRUCTION PERIOD.

F. THE CONTRACTOR SHALL NOTIFY THE LANDLORD 24 HOURS PRIOR TO ANY ELECTRICAL SHUTDOWNS WHICH MAY AFFECT EXISTING TENANTS.

G. THE CONTRACTOR IS RESPONSIBLE FOR SHUTTING OFF ALL LIGHTS IN THE CONSTRUCTION AREA UPON COMPLETION OF THE DAY'S ACTIVITIES.

1.23 THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS SET FORTH BY THE LANDLORD. THE CONTRACTOR SHALL NOTIFY THE LANDLORD PRIOR THE START OF WORK THAT MAY AFFECT ADJACENT BUILDING USERS, SUCH AS PAINTING, STAINING, OR FINISHING THAT MIGHT CREATE UNWELCOME ODOR OR NOISE IN THE BUILDING.

1.24 CLEANUP

A. THE PROJECT SITE SHALL BE SWEPT UP AND TRASH READY FOR REMOVAL ON A DAILY BASIS. CARE SHALL BE TAKEN TO KEEP ADJACENT OCCUPIED TENANT AREAS CLEAN WHERE WORK REQUIRED BY THIS PROJECT DISTURBS ADJACENT AREAS.

B. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF CONSTRUCTION DEBRIS. LOCATING OF LARGE DUMPSTERS FOR CONTRACTORS USE MUST BE APPROVED AND PLACED AS DIRECTED BY THE SHOPPING CENTER COORDINATOR. THE CONTRACTOR WILL OBTAIN THEIR OWN PERMIT FOR THE DUMPSTER.

C. PRIOR TO OCCUPANCY, SPACE SHALL BE LEFT CLEAN OF ALL DEBRIS, WALLS, AND OTHER WIPED DOWN, GLASS WASHED, BLINDS DUSTED, FLOORS SWEPT AND/OR VACUUMED AND TILE CLEANED.

1.25 ALL PENETRATIONS THROUGH THE BUILDING FIRE RATED WALLS AND FIRE WALLS WILL BE SLEEVED AND FIRE CAULKED. REFER TO SECTION 7.1.

1.26 ALL GLASS WITHIN 12" OF DOORWAYS OR 18" OF WALKING SURFACES IS TO BE TEMPERED.

1.27 PROVIDE WOOD BLOCKING OR BACKING AT PARTITION WALLS AT ALL LOCATIONS WHERE WORK SURFACES, SHELVING BRACKETS, DISPLAYS, FIXTURES AND/OR EQUIPMENT WILL BE MOUNTED OR ATTACHED TO FACE OF WALL.

1.28 INSPECTION AND TESTS:

A. CALL FOR ALL INSPECTIONS AS REQUIRED BY LOCAL AUTHORITIES, ALLOWING A MINIMUM OF TWO (2) DAY NOTICE FOR INSPECTIONS TO BE MADE.

B. NOTIFY THE OWNER FOR INSPECTION ONE WEEK PRIOR TO THE INSTALLATION OF THE ITEMS SPECIFIED IN THE "INVITATION TO BID".

C. THE OWNER HAS THE RIGHT TO ORDER TESTS AND/OR LABORATORY EXAMINATION OF ANY MATERIAL OR WORK USED OR PERFORMED ON THE PROJECT SHOULD HE SUSPECT SUCH MATERIAL OR WORK TO BE OF LESSER QUALITY THAN SPECIFIED HEREIN. THE COSTS OF ALL SUCH TESTS WILL BE PAID BY THE OWNER UNLESS THEY INDICATE WORK OR MATERIALS TO BE OF LESSER QUALITY, IN WHICH CASE THE CONTRACTOR PAYS THE COSTS ALONG WITH ANY EXPENSES INCURRED IN CORRECTION OF THE WORK.

1.29 COMPLETED WORK:

A. DELIVER COMPLETED WORK AS CALLED FOR BY THE CONTRACT TO THE OWNER FREE FROM LIENS, CLAIMS OR ENCUMBRANCES OF ANY DESCRIPTION WHATSOEVER AGAINST THE OWNER. ACCEPTANCE OF SUCH WORK IS DEFINED AS APPROVAL OF FINAL PAYOUT.

1. CONTRACTOR SHALL ATTEND AND ASSIST THE OWNER/CM WITH THE COMPILATION AND DOCUMENTATION OF THE PUNCHLIST INSPECTION. THE CONTRACTOR SHALL COMPLETE ALL PUNCHLIST DISCREPANCY ITEMS WITHIN (7) CALENDAR DAYS OF THE PUNCHLIST INSPECTION. SUPERINTENDENT SHALL BE ONSITE UNTIL THE OWNER/CM HAS SIGNED THE PUNCHLIST THAT ALL ITEMS HAVE BEEN SATISFACTORILY COMPLETED.

B. IF OWNER RECEIVES "NOTICE OF CLAIM" TO BE FILED OR IF A CLAIM IS FILED AS A RESULT OF CONTRACTOR'S NON-PAYMENT, OWNER POSSESSES THE RIGHT UNDER THE CONSTRUCTION CONTRACT TO EITHER SETTLE THE CLAIM AND DEDUCT SAME FROM THE CONTRACT SUM OR TO REQUIRE THE CONTRACTOR TO BOND OVER SUCH SMALL CLAIMS, INCLUDING ANY ASSOCIATED EXPENSES AS DEFINED IN THE CONSTRUCTION CONTRACT AND TO PROMPTLY DEFEND TO CONCLUSION OWNER AND OWNER'S INTEREST AGAINST SAID CLAIM OF CLAIMS.

C. COMPLETION OF WORK ON THE PROJECT REQUIRES THE SUBMISSION BY THE CONTRACTOR OF CERTAIN DOCUMENTATION IN ORDER FOR THE FINAL RETENTION DRAW TO BE PAID TO THE CONTRACTOR. THE SUBMISSION OF THESE DOCUMENTS IS DEFINED IN THE CONSTRUCTION CONTRACT AND IS INCLUSIVE OF THE FOLLOWING ITEMS (3 SETS TO BE PROVIDED):

1. RECORD DRAWINGS AND SPECIFICATIONS IN PDF FORMAT & HARD COPY,
2. LIEN WAIVERS FROM CONTRACTOR AND SUBCONTRACTORS AND MATERIAL MEN,
3. LIST OF ALL SUBCONTRACTORS AND MATERIAL MEN CONTRACTOR'S GUARANTEE AND COMPLETION AFFIDAVIT,
4. FINAL SIGNED PUNCH LIST,
5. ANY WORK ORDERS AND ASSOCIATED CONTRACT CHANGE ORDERS,
6. CERTIFICATE OF OCCUPANCY AND ANY RELATED PUBLIC AGENCY,
7. CERTIFICATION OF PROJECT COMPLETION,
8. COPIES OF PROJECT INSPECTION REPORTS,
9. PERMITTED SET OF DRAWINGS AND SPECIFICATION,
10. ALL WARRANTIES,
11. ALL CERTIFICATIONS NOTED IN THE DRAWINGS INCLUDING CIVIL DRAWINGS, THE BID DOCUMENTS AND CONSTRUCTION CONTRACT,
12. AND ANY REQUIRED TEST AND/OR ENGINEERING REPORTS.

1.30 MAINTENANCE AND CLEANING:

A. THROUGHOUT THE PERIOD OF CONSTRUCTION, BE RESPONSIBLE FOR SATISFACTORILY MAINTAINING THE PREMISES IN A NEAT AND CLEAN CONDITION. THIS MEANS REMOVAL OF ALL REFUSE AND DEBRIS FROM THE PREMISES.

B. STORE ALL EQUIPMENT AND MATERIALS IN A NEAT MANNER AND PROTECT THEM FROM ANY DAMAGE FROM THE ELEMENTS. MAINTAIN BUILDING IN A GENERALLY CLEAN CONDITION DURING THE PERIOD OF CONSTRUCTION, AND UPON FINAL COMPLETION PROVIDE A PROFESSIONAL SERVICE TO THOROUGHLY CLEAN ALL GLASS, FLOORS, FURNITURE AND EQUIPMENT.

1.31 RECEIVING GUIDELINES:

A. THE FOLLOWING GUIDELINES ARE IN PLACE AT ALL OWNER JOB SITES AND ARE TO BE EMPLOYED BY ALL AGENTS ACTING ON OWNER'S BEHALF.

1. CHECK THE PAPERWORK TO BE CERTAIN YOU ARE THE RECIPIENT. DO NOT SIGN FOR ANY FREIGHT DESIGNATED FOR ANOTHER CONSIGNEE. REFUSE DELIVERY AND CAUSE THE CARRIER TO CLARIFY THE DELIVERY ADDRESS WITH THE SHIPPER.
2. MAKE A NOTATION OF ANY VISIBLE DAMAGE BEING AS SPECIFIC AS POSSIBLE. THE MORE DETAIL PROVIDED ON THE SHIPMENT'S CONDITION, THE BETTER. THIS WILL ALLOW FOR PROCESSING A DAMAGE CLAIM FOR EFFICIENTLY IF DAMAGE IS FOUND. ON PREPAID SHIPMENTS, IF DAMAGE TO THE CONTENTS IS OBVIOUS, THE SHIPMENT MAY BE REFUSED. THIS WILL LEAD THE CARRIER BACK TO THE SHIPPER FOR RESOLUTION. ON THIRD PARTY SHIPMENTS BILLED TO OWNER, DO NOT REFUSE DELIVERY. AS OWNER OWNS THE GOODS IN TRANSIT. OWNER OR ITS AGENTS WILL BE REQUIRED TO FILE A CLAIM.
3. INSPECT THE PRODUCT(S) AS SOON AFTER RECEIPT AS POSSIBLE. CONCEALED DAMAGE CLAIMS MUST BE SUBMITTED WITHIN 14 DAYS OF RECEIPT TO HAVE ANY CHANCE OF RECOVERY. PRACTICALLY SPEAKING, ONCE YOU ASSUME POSSESSION, AT BEST THE DAMAGE LIABILITY IS SPLIT BETWEEN OWNER AND CARRIER. PLEASE UNDERSTAND THAT THE ABILITY TO PROVE THE DAMAGE OCCURRED IN THE CARE AND CUSTODY OF THE CARRIER DIMINISHES WITH EACH DAY THE DAMAGE GOES UNREPORTED.
4. SIGN THE CARRIER'S PAPERWORK USING A FULL SIGNATURE, COMPLETE THE DATE AND INDICATE THE NUMBER OF PIECES RECEIVED. IT IS HELPFUL TO PRINT A LAST NAME FOR CLARITY. THESE ITEMS ARE IMPORTANT IN THE EVENT A PORTION OF THE SHIPMENT IS MISSING. THIS WILL ALLOW DETERMINATION OF WHO SIGNED FOR WHAT.

2.0 SITE WORK

2.1 CONSTRUCTION MANAGER TO PROVIDE EXTERNAL SIGNAGE AND INSTALLATION. SIGN SUBCONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ACTUAL SIZE AND CONSTRUCTION OF SIGN SO THAT IT MEETS ALL LANDLORD AND CITY REQUIREMENTS. SIGN SUBCONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND ZONING ISSUES AS REQUIRED. CONTRACTOR IS TO COORDINATE LOCATION OF POWER FOR SIGNAGE.

3.0 CONCRETE

3.1 ALL PATCHING OF CONCRETE SLAB AFTER TRENCHING IS TO BE DONE PER LANDLORD'S STANDARDS. CONTRACTOR TO VERIFY SPECIAL SLAB CONDITIONS SUCH AS REBAR PLACEMENT OR REINFORCEMENT PRIOR TO MAKING CUTS AND MAKE PROPER PREPARATION FOR NEW CONCRETE WORK.

3.2 IF FLOOR LEVELING OR PREPARATION IS REQUIRED TO MAKE FLOOR SURFACE READY FOR FINISH WORK, CONTRACTOR IS TO PREPARE FLOOR WORK AREA PER MANUFACTURERS REQUIREMENTS APPLY PRODUCT PER MANUFACTURER'S RECOMMENDATIONS.

5.0 METALS

5.1 ALL MISCELLANEOUS STEEL COMPONENTS REQUIRED TO COMPLETE INSTALLATION ARE TO MEET APPROPRIATE ASTM REQUIREMENTS. THIS INCLUDES FRAMING, SUPPORT MEMBERS, ANCHORS, BOLTS, SHIMS, FASTENERS, AND OTHER SUPPLEMENTARY PARTS.

5.2 CHANNEL STRUT SUPPORT TO BE 14 GA. MINIMUM AS MANUFACTURED BY UNISTRUT CORPORATION. FINISH TO BE THERMAL-SETTING COATING WITH COLOR TO MATCH ARCHITECTS SELECTION.

5.3 IF REQUIRED IN DRAWINGS, HANDRAILS TO BE CONSTRUCTED PER ARCHITECTURAL DRAWINGS. RAIL-TO-END POST CONNECTIONS AND CHARGES IN A RAIL DIRECTION ARE TO BE FORMED BY MITERED JOINTS. ELBOW BENDS AND WALL RETURNS ARE TO BE FORMED TO A UNIFORM RADIUS, FREE FROM BUCKLES AND TWISTS WITH SMOOTH FINISHED SURFACES. ALL EXPOSED CONNECTIONS ARE TO BE FORMED WITH FLUSH, HAIRLINE, JOINTS, USING CONCEALED FASTENERS WHEREVER POSSIBLE. COPE INTERSECTIONS OF RAILS AND POSTS, WELD JOINTS, GRIND SMOOTH + BUTT WELD END-TO-END JOINTS OF RAILINGS EXCEPT WHERE SLEEVES INDICATED. CLOSE EXPOSED ENDS OF STEEL PIPE BY WELDING \S<0,62>3#16\s" THICK PLATE IN PLACE. PROVIDE PRESSURE RELIEF HOLES AT BOTTOM OF TUBES, NEAR CLOSED END OF PIPE. PROVIDED WALL MOUNTING BRACKETS SIZED FOR PIPE RAILINGS, WITH SPACES TO PREVENT CRUSHING OF GYPSUM BOARD. FINISH TO BE THERMAL-SETTING POWDER COATING. COLOR TO MATCH ARCHITECTS SETTING.

6.0 WOOD AND PLASTICS

6.1 ALL BLOCKING, NAILERS, PLYWOOD BACKING AND UNDERLAYMENT TO BE FIRE RETARDANT TREATED WITH A FLAME SPREAD RATING OF NOT MORE THAN 25 WHEN TESTED IN COMPLIANCE WITH ASTM E84 NFPA 225 OR UL 723. THIS TREATMENT SHALL BE CLASSIFIED FOR USE AS INTERIOR TYPE A + LOW HYPROSCOPIC IN COMPLIANCE WITH ASTM D3201.

6.2 ARCHITECTURAL MILLWORK PROVIDED AND INSTALLED BY CONTRACTOR OR AS SPECIFIED IN DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING FABRICATION OF ANY CASEWORK ITEMS. TEMPERED STAMP SHOULD BE VISIBLE IN TOP OR BOTTOM RIGHT CORNER OF ALL GLASS THAT IS REQUIRED TO BE TEMPERED BY CODE. FIELD INSTALL CABINETS PLUMB, LEVEL, STRAIGHT AND SQUARE. ALL COUNTER TOPS TO BE SCRIBED TO FIT WALL CONFIGURATION. APPLY SEALANT AND/OR FILL WALL AND/OR CEILING TO FILL IMPERFECTIONS.

6.3 ARCHITECTURAL FIXTURES ARE TO BE PROVIDED AND INSTALLED BY CONSTRUCTION MANAGER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DELIVERY OF INSTALLATION ONLY. ALL FIXTURES TO BE INSTALLED PLUMB, LEVEL, STRAIGHT AND SQUARE.

6.4 PLYWOOD: PLYWOOD SHALL BE A-C GRADE WHERE IN CABINETRY, PAINT FINISH IS TO BE APPLIED; PLYWOOD IN STOCK ROOM SHALL BE C-D GRADE. PLYWOOD ON THE EXTERIOR OF THE STORE, EXPOSED TO THE ELEMENTS SHALL BE EXTERIOR GRADE. ALL EXPOSED EDGES HAVE A \S<1,100>1#4\s" THICK HARDWOOD EDGE BAND. ALL PARTICLE BOARD SHALL BE FIRE CODE AND STAMPED SUCH (UNLESS NOTED OTHERWISE).

6.5 PARTICLE BOARD: ALL PARTICLE BOARD SHALL BE HIGH DENSITY INDUSTRIAL GRADE. ALL EXPOSED EDGES IN CABINETRY SHALL HAVE A \S<1,100>1#4\s" THICK HARDWOOD EDGE BAND. ALL PLYWOOD SHALL BE FIRE CODE AND STAMPED SUCH.

6.6 PLASTIC LAMINATE: ALL LAMINATED PLASTIC SHALL BE \S<1,100>1#16\s" THICK. ALL PLYWOOD AND PARTICLE BOARD WHICH ARE TO HAVE LAMINATED PLASTIC FRONT SHALL HAVE A LAMINATED PLASTIC BALANCE SHEET ON BACK. ALL STOREFRONT LAMINATE SHALL BE SOLID COLOR. REF: MATERIALS SCHEDULE. NO SCREWS THROUGH PLASTIC FACES.

6.7 ALL WOOD TRIM, APRONS, CAPS, ETC., TO BE PREMIUM GRADE PAINT QUALITY WOOD.

7.0 THERMAL AND MOISTURE PROTECTION

7.1 FIRE STOP

A. THE CONTRACTOR IS TO PROVIDE FIRE STOPPING AT ANY PLUMBING OR ELECTRICAL CONDUIT PENETRATION OF A ONE-HOUR WALL ASSEMBLY EQUAL TO "METACAULK 950 FIRESTOPPING PENETRATION SEALANT" OR EQUAL, APPLIED IN ACCORDANCE WITH UL SYSTEM #442 AND ASTM E-814.

B. THE CONTRACTOR IS TO PROVIDE FIRE STOPPING AT ANY PLUMBING OR ELECTRICAL CONDUIT PENETRATION OF A TWO HOUR FLOOR ASSEMBLY EQUAL "METACAULK 950-10 FIRESTOPPING PENETRATION SEALANT" OR EQUAL, APPLIED IN ACCORDANCE WITH UL SYSTEM NUMBER 273 AND ASTM E-814.

C. ALL PENETRATIONS THROUGH THE BUILDING FLOORS, CORE WALLS AND FIRE WALLS WILL BE SLEEVED AND FIRE CAULKED.

7.2 CAULKING SHALL BE EQUAL TO PECORA ACRYLIC LATEX CAULK.

7.3 IF NOTED ON THE CONSTRUCTION DOCUMENTS PROVIDE SOUND INSTALLATION CAULKING AT TOP AND BOTTOM OF ALL DEMISING WALLS. CAULKING SHALL BE EQUAL TO PECORA BA-98, NONDRYING BUTYL RUBBER.

7.4 COORDINATE ALL BUILDING PENETRATIONS WITH THE LANDLORD TO MAINTAIN THE WATERTIGHT CONSTRUCTION AND BUILDING WARRANTIES.

8.0 DOORS AND WINDOWS

8.1 HOLLOW METAL DOOR FRAMES SHALL BE AS NOTED ON THE CONSTRUCTION DOCUMENTS. 16-GAUGE KNOCKDOWN TYPE, MITERED CORNERS SHALL BE REINFORCED INTEGRAL TABS FOR SECURE INTERLOCKING OF JAMB TO HEAD. STRIKE JAMB TO HAVE 3 RUBBER MUTES, FACTORY INSTALLED. UL RATED AS SCHEDULED. ALL FRAMES AND ASSEMBLES TO CONFORM TO APPLICABLE CODES, AND BE PROPERLY LABELED AS REQUIRED BY THE CODE.

8.2 DOORS AND FRAMES SHALL BE PRE-MACHINED FOR HARDWARE.

8.3 INSTALLATION OF FIRE RATED FRAMES SHALL COMPLY WITH NFPA 80.

8.4 PROVIDE HARDWARE AS INDICATED IN THE DOOR SCHEDULE. ALL LOCK WORK TO BE CONTRACTED THROUGH BUILDING OWNER'S SELECTED LOCKSMITH AND COINCIDE WITH BUILDING SYSTEMS.

8.5 HARDWARE SCHEDULE: REFER TO DOOR SCHEDULE.

8.6 ADDITIONAL REQUIREMENTS FOR FIRE RATED DOORS:
CLOSURES TO BE PROVIDED ON ALL FIRE-RATED DOORS. PROVIDE CLOSURE, DOOR SWEEP, AND ALL REQUIRED GASKETS. PROVIDE LEVER LOCK SET TO MATCH HARDWARE SPECIFICATIONS. ALL PER HARDWARE SCHEDULE.

8.7 FLOOR STOPS:
WALL STOPS TO BE PROVIDED EQUAL TO IVES #402. WHEN A WALL STOP IS NOT POSSIBLE, PROVIDE FLOOR STOPS EQUAL TO IVES #438. (BRUSHED STAINLESS STEEL FINISH).

8.8 STANDARD TENANT INTERIOR DOORS:
PER DOOR SCHEDULE, 3'-0"W x 7'-0"H (UNLESS NOTES). FACE ASSEMBLY SHALL BE ATTACHED WITH TYPE II, WATER RESISTANT ADHESIVE, FOR INTERIOR DOORS. PROVIDE 5" LOCK BLOCK FOR LOCKSET/LATCHSET HARDWARE. STANDARDS: AWI, TYPE PC AND NWMA-F-7, IS-1-78 SERIES. FINISH VENEER SHALL BE READY FOR PRIMER AND PAINT. DOORS SHALL BE 1-3/4" THICK WITH SOLID WOOD EDGES. UL RATED AS SCHEDULED VERIFY ALL SIZES PRIOR TO ORDERING.

8.9 ALL DOORS AND ASSEMBLIES TO CONFORM TO APPLICABLE CODES AND SHALL BEAR THE APPROPRIATE LABELING AS CALLED OUT ON THE DRAWINGS.

8.10 ALL DOORS SHALL BE UNDERCUT AS REQUIRED BY DIFFERENT FLOORING CONDITIONS DESCRIBED IN DRAWINGS AND MECHANICAL SHEETS.

8.11 WHERE NOTED SUBCONTRACTOR SHALL REFURNISH ALL LABOR AND MATERIALS NECESSARY TO COMPLETE GLASS AND GLAZING INDICATED. ALL GLASS SHALL CONFORM TO THE APPLICABLE CODES AND ORDINANCES.

8.12 STOREFRONT GLAZING:

1. ALUMINUM STOREFRONT SECTIONS SHALL BE EFCO, KAWNEER, PITTCO, MAYLITE, OR APPROVED EQUAL. FINISH ON ALL ALUMINUM MEMBERS SHALL BE PER BUILDING STANDARD, OR AS SPECIFIED ON PLANS. GLAZING FOR STOREFRONT SHALL BE THERMALPANE TYPE WITH 1/2" AIR SPACE; SAFETY GLASS OR 1/4" TEMPERED GLASS WILL BE USED FOR THE EXTERNAL PANES.
2. ALUMINUM SWITCHING STOREFRONT DOORS PER DOOR SCHEDULE. TEMPERED STAMP SHOULD BE VISIBLE IN TOP OR BOTTOM RIGHT CORNER OF ALL GLASS THAT IS REQUIRED TO BE TEMPERED BY CODE.

9.0 FINISHES

9.1 METAL STUD FRAMING SYSTEMS FOR INTERIOR GYPSUM BOARD PARTITIONS SHALL CONFORM TO ASTM C754. INSTALL SYSTEMS AS FOLLOWED BY NOT LESS THAN THAT REQUIRED TO COMPLY WITH ASTM C754 BASED UPON ONE GYP. BD. LAYER EACH SIDE OF STUD, 16" O.C. STUD SPACING

9.2 FINISHED WALLS SHALL BE SMOOTH AND PROJECT NO IMPERFECTIONS; THEY SHALL BE PLUMB AND STRAIGHT AND SHOW NO BULGE OR DIVOTS AT JOINTS. ALL STANDING SHALL BE DONE WITH A METAL SCREEN.

9.3 GYPSUM BOARD TO BE 5/8" TYPE 'X' GYPSUM BOARD AS PROVIDED BY U.S. GYPSUM OR APPROVED EQUAL. STAGGER ALL PANEL JOINTS, BACK ALL PENETRATIONS AND SEAL ALL JOINTS. ALL EXPOSED EDGES OF GYPSUM BOARD TO BE COVERED BY A STOCK METAL EDGE TRIM SIMILAR TO #401 METAL TRIM BY U.S. GYPSUM. ALL INTERIOR CORNERS SHALL BE TAPED. ALL EXTERIOR CORNERS SHALL BE COVERED WITH A METAL BEAD WITH TAPE.

9.4 USE WATER RESISTANT GYPSUM BOARD ADJACENT TO ALL PLUMBING FIXTURES AS NOTED IN THE CONSTRUCTION DOCUMENTS (SINKS, URINALS, WATER CLOSETS, JANITOR SINKS).

9.5 IF SOUND ATTENUATION BLANKETS ARE SHOWN ON THE CONSTRUCTION DOCUMENTS THEY SHALL BE USG OR OTHER APPROVED MINERAL OR GLASS FIBER BLANKET. FILL WALL CAVITY WITH 2" OF .6 PCF DENSITY GLASS SOUND FIBER BATT. COMPLY WITH MANUFACTURERS INSTRUCTIONS FOR PARTICULAR CONDITIONS OF INSTALLATION IN EACH CASE. PLACE SOUND ATTENUATION BLANKETS IN STUD CAVITIES OF SOUND RATED PARTITIONS. FRICTION FIT SECURELY BETWEEN STUDS. BUTT ENDS OF BLANKETS CLOSELY TOGETHER AND FILL ALL VOIDS. PROVIDE SOUND INSULATION CAULKING AT TOP.

9.6 IF NOTED ON CONSTRUCTION DOCUMENTS AT BOTTOM OF ALL DEMISING WALLS. CAULKING SHALL BE EQUAL TO PECORA #BA-98, NON-DRYING BUTYL RUBBER.

9.7 CEILINGS - GYPSUM BOARD CEILINGS SHALL HAVE DIRECT SUSPENSION EQUAL TO USG. GYPSUM BOARD THICKNESS SHALL BE 5/8", UNLESS NOTED. ALL JOINTS SHALL BE TAPED, SPACKLED, AND FINISHED PER USG SPECIFICATIONS.

9.8 CERAMIC TILE - PER TILE VENDOR. NO SUBMITTALS REQUIRED, NO SUBSTITUTIONS. WHERE RECESSED OR DEPRESSED FLOOR SLABS ARE FILLED WITH PORTLAND CEMENT MORTAR BED, SET CERAMIC MOSAIC FLOOR TILE IN EITHER PORTLAND CEMENT PAST OVER PLASTIC MORTAR BED OR LATEX-PORTLAND CEMENT MORTAR OVER CURED MORTAR BED EXCEPT AS SPECIFIED OTHERWISE, ANSI A108-1C, TCA SYSTEM F121-02 OR F111-02. SLOPE SURFACE TO DRAIN TOWARDS SIDEWALK. FINISH WITH A SLIP-RESISTANT EXTERIOR EPOXY FLOOR SEALER.

9.9 RUBBER BASE SHALL BE PER THE FINISH SCHEDULE THAT WILL LIST MANUFACTURER, COLOR AND TYPE. INSTALL PRODUCT IN 12' LENGTHS TO MINIMIZE JOINTS.

9.10 FRP PANEL (FIBERGLASS REINFORCED POLYESTER PANEL): AS MANUFACTURED BY USG INTERIOR, INC., MARLITE DIVISION, OR EQUAL. SYSTEM CONSISTS OF 3/32" THICK 4' WIDE PANELS, MOLDINGS, ADHESIVES, AND SEALANTS.

9.11 ALL FINISHES, MATERIALS, AND COLORS ARE CALLED OUT IN THE FINISH SCHEDULE. IF NOT NOTED, CONTACT CONSTRUCTION MANAGER.

9.12 ALL FINISHES SHALL MEET THE REQUIREMENTS OF THE CODE FOR FIRE SAFETY. TREAT IF NECESSARY TO OBTAIN CORRECT RATINGS.

9.13 SEAL TOP AND BOTTOM OF ALL DOORS.

9.14 ALL PAINTED SURFACES ARE TO RECEIVE ONE (1) PRIME COAT AND A MINIMUM OF TWO (2) FINISH COATS APPLIED WITH 3/8" NAP ROLLER OR AS REQUIRED FOR PROPER COVERAGE AND UNIFORM APPEARANCE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. APPLY ADDITIONAL COATS WHEN UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT, UNTIL SURFACE IS OF UNIFORM FINISH, COLOR AND APPEARANCE. CONTRACTOR IS TO SUBMIT (3) 8"x10" SAMPLES SHOWINGS COLOR AND FINISH TO CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO PAINTING.

10.0 SPECIALTIES

10.1 FURNISH AND INSTALL FIRE EXTINGUISHERS AS REQUIRED BY CODE.

10.2 METAL ACCESS DOORS: PER PLANS.

10.3 TOILET ACCESSORIES: PROVIDED AND INSTALL PER ACCESSORIES SCHEDULE. NO SUBSTITUTIONS.

11.0 MECHANICAL - REFER TO MEP DRAWINGS

12.0 ELECTRICAL - REFER TO MEP DRAWINGS

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LICENSED ARCHITECT
STATE OF CALIFORNIA
REN. SEP 30 2019
OCT 30 2017

BISHOPS

BISHOPS - TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
ALL EXISTING CONDITIONS AND
DIMENSIONS-NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

NO	REVISION

ISSUE

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CALGREEN NOTES AND REQUIREMENTS
BISHOPS

DIV	ITEM	FEATURE OR MEASURE	APPLICABLE TO PROJECT	NOTE OR REFERENCE TO PLANS
DIVISION 5.1 PLANNING AND DESIGN	1	SITE DEVELOPMENT (5.106) 5.106.1 STORM WATER SOIL LOSS PREVENTION PLAN. FOR PROJECTS OF ONE ACRE OR LESS, DEVELOP A STORM WATER SOIL LOSS PREVENTION THAT HAS BEEN DESIGNED, SPECIFIC TO ITS SITE, CONFORMING TO THE STATE STORM WATER NPDES CONSTRUCTION PERMIT 99-08-DWQ OR LOCAL ORDINANCE, WHICHEVER IS STRICTER, AS IS REQUIRED FOR PROJECTS OVER ONE ACRE. THE PLAN SHOULD COVER PREVENTION OF SOIL LOSS BY STORM WATER RUN-OFF AND/OR WIND EROSION, OF SEDIMENTATION, AND/OR OF DUST/PARTICULATE MATTER AIR POLLUTION.	NO	TENANT FINISH OUT, NO CIVIL SCOPE OF WORK
	2	5.106.4 BICYCLE PARKING AND CHANGING ROOMS. COMPLY WITH SECTIONS 5.106.4.1 AND 5.106.4.2; OR MEET LOCAL ORDINANCE, WHICHEVER IS STRICTER. 5.106.4.1 SHORT-TERM BICYCLE PARKING. IF THE PROJECT IS ANTICIPATED TO GENERATE VISITOR TRAFFIC, PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS WITHIN 200 FEET OF THE VISITORS' ENTRANCE, READILY VISIBLE TO PASSERS-BY, FOR 5 PERCENT OF VISITOR MOTORIZED VEHICLE PARKING CAPACITY, WITH A MINIMUM OF ONE TWO-BIKE CAPACITY RACK. 5.106.4.2 LONG-TERM BICYCLE PARKING. FOR BUILDINGS WITH OVER 10 TENANT-OCCUPANTS, PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF TENANT-OCCUPIED MOTORIZED VEHICLE PARKING CAPACITY, WITH A MINIMUM OF ONE SPACE.	YES NO	EXISTING ON SITE SHORT TERM SPACES REQUIRED 2 LONG TERM SPACES REQUIRED 0
	3	5.106.5.2 DESIGNATED PARKING. IN NEW PROJECTS OR ADDITIONS OR ALTERATIONS THAT ADD 10 ORMORE VEHICULAR PARKING SPACES, PROVIDE DESIGNATED PARKING FOR ANY COMBINATION OF LOW-EMITTING, FUEL-EFFICIENT AND CARPOOL/VAN POOL VEHICLES AS SHOWN IN TABLE 5.106.5.2. 5.106.5.2.1 PARKING STALL MARKING. PAINT, IN THE PAINT USED FOR STALL STRIPING, THE FOLLOWING CHARACTERS SUCH THAT THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF THE STALL STRIPING AND IS VISIBLE BENEATH A PARKED VEHICLE: 5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING. [N] CONSTRUCTION SHALL COMPLY WITH SECTION 5.106.5.3.1 OR SECTION 5.106.5.3.2 TO FACILITATE FUTURE INSTALLATION OF ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). 5.106.5.3.1 SINGLE CHARGING SPACE REQUIREMENTS. [N] 5.106.5.3.2 MULTIPLE CHARGING SPACES REQUIREMENTS. [N] 5.106.5.3.3 EV CHARGING SPACE CALCULATION. [N] PER TABLE 5.106.5.3.3 (APPROX. 3%) 5.106.5.3.4 [N] IDENTIFICATION. 5.106.5.3.5 [N] EV SPACES COUNT AS DESIGNATED PARKING.	NO	TENANT FINISH OUT, NO CIVIL SCOPE OF WORK
	4	5.106.8 LIGHT POLLUTION REDUCTION. COMPLY WITH LIGHTING POWER REQUIREMENTS IN THE CALIFORNIA ENERGY CODE AND DESIGN INTERIOR AND EXTERIOR LIGHTING SUCH THAT ZERO DIRECT-BEAM ILLUMINATION LEAVES THE BUILDING SITE. MEET OR EXCEED EXTERIOR LIGHT LEVELS AND UNIFORMITY RATIOS FOR LIGHTING ZONES 1-4 AS DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE, USING THE FOLLOWING STRATEGIES: 1. SHIELD ALL EXTERIOR LUMINAIRES OR USE CUTOFF LUMINAIRES. 2. CONTAIN INTERIOR LIGHTING WITHIN EACH SOURCE. 3. ALLOW NO MORE THAN .01 HORIZONTAL FC 15 FT. BEYOND THE SITE. 4. CONTAIN ALL EXTERIOR LIGHTING WITHIN PROPERTY BOUNDARIES. EXCEPTION: SEE PART 2, CHAPTER 12, SECTION 1205.6 FOR CAMPUS LIGHTING REQUIREMENTS FOR PARKING FACILITIES AND WALKWAYS.	NO	TENANT FINISH OUT, NO CIVIL SCOPE OF WORK
	5	5.106.10 GRADING AND PAVING. THE SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER AWAY FROM BUILDINGS. CONSTRUCTION PLANS SHALL INDICATE HOW SITE GRADING OR A DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS.	NO	TENANT FINISH OUT, NO CIVIL SCOPE OF WORK
5.2 EE	6	5.201.1 5.201.1 SCOPE. BUILDING MEETS OR EXCEEDS THE REQUIREMENTS OF THE CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.3	YES	SEE ELECTRICAL DRAWINGS
5.3 WATER EFFICIENCY AND CONSERVATION	7	5.303.1 METERS. SEPARATE METERS SHALL BE INSTALLED FOR THE USES DESCRIBED IN SECTIONS 5.303.1.1 THROUGH 5.303.1.3. 5.303.1.1 BUILDINGS IN EXCESS OF 50,000 SQUARE FEET. SEPARATE SUBMETERS SHALL BE INSTALLED AS FOLLOWS: 1. FOR EACH INDIVIDUAL LEASED, RENTED, OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100 GAL/DAY. 2. FOR SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP PROJECTED TO CONSUME MORE THAN 100 GAL/DAY. 5.303.1.2 EXCESS CONSUMPTION. ANY BUILDING WITHIN A PROJECT OR SPACE WITHIN A BUILDING THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.	YES	SEE PLUMBING DRAWINGS
	8	5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS ANDURINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING: 5.303.3.1 WATER CLOSETS. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S.EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH. 5.303.3.2 URINALS. THE EFFECTIVE FLUSH VOLUME OF URINALS SHALL NOT EXCEED 0.5 GALLONS PERFLUSH. 5.303.3.3 SHOWERHEADS. 5.303.3.3.1 SINGLE SHOWERHEAD. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OFTHE U.S. EPA WATERSENSE SPECIFICATION FORSHOWERHEADS. 5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BYMORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWEROUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED ASHOWERHEAD.	YES	SEE PLUMBING DRAWINGS
	8.1	5.303.3.4 FAUCETS AND FOUNTAINS 5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS. LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OFNOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI. 5.303.3.4.2 KITCHEN FAUCETS. KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUMRATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI. 5.303.3.4.3 WASH FOUNTAINS. WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI]. 5.303.3.4.4METERING FAUCETS. METERING FAUCETS SHALL NOT DELIVERMORE THAN 0.20 GALLONS PER CYCLE. 5.303.3.4.5METERING FAUCETS FOR WASH FOUNTAINS. METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVEA MAXIMUM FLOWRATE OF NOT MORE THAN 0.20 GALLONS PERMINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].	YES	SEE PLUMBING DRAWINGS
	9	5.303.4 AREAS OF ADDITIONS OR ALTERATION. FOR THOSE OCCUPANCIES WITHIN THE AUTHORITY OF THE CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, THE PROVISIONS OF SECTION 5.303.3 SHALL APPLY TO NEW FIXTURES IN ADDITIONS OR AREAS OF ALTERATIONS TO THE BUILDING.	YES	SEE PLUMBING DRAWINGS
	10	5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLEDIN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1401.1 OF THE CALIFORNIA PLUMBING CODE AND IN CHAPTER 6 OF THIS CODE.	YES	SEE PLUMBING DRAWINGS
	11	5.304.1 WATER BUDGET. A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION USE.	NO	TENANT FINISH OUT, NO CIVIL SCOPE OF WORK
	12	5.304.2 OUTDOOR POTABLE WATER USE. FOR NEW WATER SERVICE, SEPARATE METERS OR SUBMETERS SHALL BE INSTALLED FOR INDOOR AND OUTDOOR POTABLE WATER USE FOR LANDSCAPED AREAS BETWEEN 1,000 SQUARE FEET AND 5,000 SQUARE FEET.	NO	TENANT FINISH OUT, NO CIVIL SCOPE OF WORK
	13	5.304.3 IRRIGATION DESIGN. IN NEW NONRESIDENTIAL PROJECTS WITH BETWEEN 1,000 AND 2,500 SQUARE FEET OF LANDSCAPED AREA (THE LEVEL AT WHICH THE MLO APPLIES), INSTALL IRRIGATION CONTROLLERS AND SENSORS WHICH INCLUDE THE FOLLOWING CRITERIA, AND MEET MANUFACTURER'S RECOMMENDATIONS. 5.304.3.1 IRRIGATION CONTROLLERS. AUTOMATIC IRRIGATION SYSTEM CONTROLLERS INSTALLED AT THE TIME OF FINAL INSPECTION SHALL COMPLY WITH THE FOLLOWING: 1. CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE. 2. WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE CONTROLLER(S). SOIL MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT.	NO	TENANT FINISH OUT, NO CIVIL SCOPE OF WORK
5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	14	5.407.1WEATHER PROTECTION. PROVIDE A WEATHER-RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE AS REQUIRED BY CALIFORNIA BUILDING CODE, SECTION 1403.2 AND CALIFORNIA ENERGY CODE, SECTION 150, MANUFACTURER'S INSTALLATION INSTRUCTIONS OR LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT.3	YES	SEE TITLE 24 ENVELOPE CALCULATIONS AND ARCHITECTURAL DETAILS
	15	5.407.2 MOISTURE CONTROL. EMPLOY MOISTURE CONTROL MEASURES BY THE FOLLOWING METHODS; 5.407.2.1 SPRINKLERS. DESIGN AND MAINTAIN LANDSCAPE IRRIGATION SYSTEMS TO PREVENT IRRIGATION SPRAY ON STRUCTURES. 5.407.2.2 ENTRIES AND OPENINGS. DESIGN EXTERIOR ENTRIES AND OPENINGS TO PREVENT WATER INTRUSION INTO BUILDINGS AS FOLLOWS. 5.407.2.2.1 EXTERIOR DOOR PROTECTION. PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS PLUS AT LEAST ONE OF THE FOLLOWING: 1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH. 2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH. 3. THE DOOR IS RECESSED AT LEAST 4 FEET. 4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION. 5.407.2.2.2 FLASHING. INSTALL FLASHINGS INTEGRATED WITH A DRAINAGE PLANE.	YES	TENANT FINISH OUT, NO IRRIGATION SCOPE OF WORK
	16	5.408.1 CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50% OF THE NON- HAZARDOUS CONSTRUCTION WASTE IN ACCORDANCE WITH SECTION 5.408.1.1, 5.408.1.2 OR 5.408.1.3; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. 5.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. SUBMIT PLAN PER THIS SECTION TO ENFORCEMENT AUTHORITY. 5.408.2.1 DOCUMENTATION. PROVIDE DOCUMENTATION OF THE WASTE MANAGEMENT PLAN THAT MEETS THE REQUIREMENTS LISTED IN SECTION 5.408.2 ITEMS 1 THRU 4, AND THE PLAN IS ACCESSIBLE TO THE ENFORCEMENT AUTHORITY. 5.408.2.2 ISOLATED JOBSITES. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY. 5.408.3 CONSTRUCTION WASTE. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS OR MEET LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT. EXCEPTIONS: 1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS. 2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST. 3. IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION AND DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN. 4. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH. 5.408.4 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED.	YES	GENERAL CONTRACTOR TO CONTRACT & COORDINATE W/ CONSTRUCTION WASTE VENDOR TO PROVIDE WASTE MANAGEMENT PLAN AND DIVERSION REPORTS SHOWING COMPLIANCE WITH THIS SECTION SUBMIT DOCUMENTATION TO ENFORCING AGENCIES AS REQUIRED
	17	5.410.1 RECYCLING BY OCCUPANTS. PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE, AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING.	YES	PROJECT OWNER HAS BEEN INFORMED OF THIS REQUIREMENT.

DIV	ITEM	FEATURE OR MEASURE	APPLICABLE TO PROJECT	NOTE OR REFERENCE TO PLANS
5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	18	5.410.2 COMMISSIONING. FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING FOR ALL BUILDING SYSTEMS COVERED BY T24, PART 6, PROCESS SYSTEMS, AND RENEWABLE ENERGY SYSTEMS SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT. COMMISSIONING REQUIREMENTS SHALL INCLUDE ITEMS LISTED IN 5.410.2. 5.410.2.1 OWNER'S PROJECT REQUIREMENTS (OPR). DOCUMENTED BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS THE OPR SHALL INCLUDE ITEMS LISTED IN 5.410.4. 5.410.2.2 BASIS OF DESIGN (BOD). A WRITTEN EXPLANATION OF HOW THE DESIGN OF THE BUILDING SYSTEMS MEETS THE OPR SHALL BE COMPLETED AT THE DESIGN PHASE OF THE BUILDING PROJECT AND UPDATED PERIODICALLY TO COVER THE SYSTEMS LISTED IN 5.410.2.2. 5.410.2.3 COMMISSIONING PLAN. A COMMISSIONING PLAN DESCRIBING HOW THE PROJECT WILL BE COMMISSIONED SHALL BE STARTED DURING THE DESIGN PHASE OF THE BUILDING PROJECT AND SHALL INCLUDE ITEMS LISTED IN 5.410.2.3. 5.410.2.4 FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM, AND SYSTEM-TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. 5.410.2.5 DOCUMENTATION AND TRAINING. A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED. 5.410.2.5.1 SYSTEMS MANUAL. THE SYSTEMS MANUAL SHALL BE DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND FACILITIES OPERATOR AND SHALL INCLUDE THE ITEMS LISTED IN 5.410.2.5.1. 5.410.2.5.2 SYSTEMS OPERATIONS TRAINING. THE TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL INCLUDE ITEMS LISTED IN 5.410.2.5.2. 5.410.2.6 COMMISSIONING REPORT. A COMPLETE REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN, CONSTRUCTION AND REPORTING RECOMMENDATIONS FOR POST- CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.	NO	TENANT FINISH OUT UNDER 10,000 SF
	19	5.410.4 TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET. 5.410.4.2 SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT, THE SYSTEMS LISTED IN 5.410.4.2. 5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE NATIONAL STANDARDS ON EACH SYSTEM. 5.410.343.1 HVAC BALANCING. BEFORE A NEW SPACE CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHOULD BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN 5.410.4.3.1. 5.410.4.4 REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. 5.410.4.5 OPERATION AND MAINTENANCE MANUAL. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION. 5.410.4.5.1 INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.	YES	GENERAL CONTRACTOR'S VENDORS RESPONSIBLE TO DEVELOP WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING THE FOLLOWING SYSTEMS: • HVAC SYSTEM AND CONTROLS • INDOOR AND OUTDOOR LIGHTING • WATER HEATER SYSTEMS GENERAL CONTRACTOR TO PRODUCE MAINTENANCE MANUAL, COORDINATE WORK AND SUBMIT DOCUMENTATION TO ENFORCING AGENCIES AS REQUIRED SHOWING COMPLIANCE
	20	5.503.1. INSTALL ONLY A DIRECT-VENT SEALED-COMBUSTION GAS OR SEALED WOOD-BURNING FIREPLACE, OR A SEALED WOODSTOVE, AND REFER TO RESIDENTIAL REQUIREMENTS IN THE CALIFORNIA ENERGY CODE, TITLE 24, PART 6, SUBCHAPTER 7, SECTION 150. 5.503.1.1 WOODSTOVES. WOODSTOVES SHALL COMPLY WITH US EPA PHASE II EMISSION LIMITS.	NO	
	20.1	5.504.1.3 TEMPORARY VENTILATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. APPLIES TO ADDITIONS OR ALTERATIONS.	YES	SEE MECHANICAL DRAWINGS
5.5 ENVIRONMENTAL QUALITY	21	5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.	YES	SEE MECHANICAL DRAWINGS
	22	5.504.4 FINISH MATERIAL POLLUTANT CONTROL. FINISH MATERIALS SHALL COMPLY WITH SECTIONS 5.504.4.1 THROUGH 5.504.4.4. 5.504.4.1 ADHESIVES, SEALANTS, CAULKS. ADHESIVES AND SEALANTS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS. 1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2. 2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.	YES	GENERAL CONTRACTOR'S VENDORS RESPONSIBLE TO SUBMIT "ADHESIVES, SEALANTS, AND CAULKS" PRODUCT INFORMATION SHEETS, ROOM LOCATION MATRIX'S, AND DECLARATION STATEMENT ALONG WITH INDIVIDUAL PRODUCT SPECIFICATION SHEETS FOR EACH ITEM TO BE USED.
	23	5.504.4.3 PAINTS AND COATINGS. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH TABLE 5.504.4.2 UNLESS MORE STRINGENT LOCAL LIMITS APPLY. 5.504.4.3.1 AEROSOL PAINTS AND COATINGS. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES (CCR, TITLE 17, SECTION 94520 ET SEQ). 5.504.4.3.2 VERIFICATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY.	YES	PRIOR TO FINAL INSPECTION, A LETTER SIGNED BY THE GENERAL CONTRACTOR OR THE OWNER/BUILDER (FOR ANY OWNER/BUILDER PROJECTS) MUST BE PROVIDED TO THE LOCAL BUILDING OFFICIAL CERTIFYING THAT ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, AEROSOL PAINTS, AEROSOL COATINGS, CARPET SYSTEMS (INCLUDING CARPETING, CUSHION AND ADHESIVE), RESILIENT FLOORING SYSTEMS, AND COMPOSITE WOOD PRODUCTS INSTALLED ON THIS PROJECT ARE WITHIN THE EMISSION LIMITS SPECIFIED IN CGBSC SECTION 5.504.
	24	5.504.4.4 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE STANDARDS LISTED IN 5.504.4.4. 5.504.4.4.1 CARPET CUSHION. ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM. 5.504.4.4.2 CARPET ADHESIVE. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 804.4.1.	NO	
	25	5.504.4.5 COMPOSITE WOOD PRODUCTS. HARDWOOD PLYWOOD, PARTICLEBOARD, AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN TABLE 5.504.4. 5.504.4.5.2 DOCUMENTATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING. 1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS. 2. CHAIN OF CUSTODY CERTIFICATIONS. 3. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.	YES	GENERAL CONTRACTOR'S VENDORS RESPONSIBLE TO SUBMIT "COMPOSITE WOOD PRODUCTS" PRODUCT INFORMATION SHEETS, ROOM LOCATION MATRIX'S, AND DECLARATION STATEMENT ALONG WITH INDIVIDUAL PRODUCT SPECIFICATION SHEETS FOR EACH ITEM TO BE USED.
	26	5.504.4.6 RESILIENT FLOORING SYSTEMS. COMPLY WITH THE VOC-EMISSION LIMITS DEFINED IN THE 2009 CHPS CRITERIA AND LISTED ON ITS LOWEMITTING MATERIALS LIST (OR PRODUCT REGISTRY), OR CERTIFIED UNDER THE FLOORSCORE PROGRAM OF THE RESILIENT FLOOR COVERING INSTITUTE. 5.504.4.6.1 VERIFICATION OF COMPLIANCE. DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.	NO	
	27	5.504.5.3 FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MERV OF 8. 5.504.5.3.1 LABELING. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.	YES	SEE MECHANICAL DRAWINGS
	28	5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, AND IN BUILDINGS; OR AS ENFORCED BY ORDINANCES, REGULATIONS, OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT.	YES	GC TO PROVIDE SIGN STATING "NO SMOKING WITHIN 25 FEET OF BUILDING ENTRIES"
	29	5.505.1 INDOOR MOISTURE CONTROL. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1203 AND CHAPTER 14.1	YES	SEE MECHANICAL DRAWINGS
	30	5.506.1 OUTSIDE AIR DELIVERY. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 121 OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6 AND CHAPTER 4 OF CCR, TITLE 8, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT.	YES	SEE MECHANICAL DRAWINGS
	31	5.506.2 CARBON DIOXIDE (CO2) MONITORING. FOR BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6, SECTION 121(C).	YES	SEE MECHANICAL DRAWINGS
	32	5.507.4 ACOUSTICAL CONTROL. EMPLOY BUILDING ASSEMBLIES AND COMPONENTS WITH STC VALUES DETERMINED IN ACCORDANCE WITH ASTM E90 AND ASTM E413. 5.507.4.1 EXTERIOR NOISE TRANSMISSION. WALL AND ROOF CEILING ASSEMBLIES MAKING UP THE BUILDING ENVELOPE SHALL HAVE AN STC OF AT LEAST 50, AND EXTERIOR WINDOWS SHALL HAVE A MINIMUM STC OF 30 FOR ANY OF THE FOLLOWING BUILDING LOCATIONS. 1. WITHIN 1,000 FT OF RIGHT OF WAYS OF FREEWAYS. 2. WITHIN 5 MI. OF AIRPORTS SERVING MORE THAN 10,000 COMMERCIAL JETS PER YEAR. 3. WHERE SOUND LEVELS AT THE PROPERTY LINE REGULARLY EXCEED 65 DECIBLES, OTHER THAN OCCASIONAL SOUND DUE TO CHURCH BELLS, TRAIN HORNS, EMERGENCY VEHICLES, AND PUBLIC WARNING SYSTEMS. 5.507.4.2 INTERIOR SOUND. WALL AND FLOOR-CEILING ASSEMBLIES SEPARATING TENANT SPACES AND TENANT SPACES AND PUBLIC PLACES SHALL HAVE AN STC OF AT LEAST 40.	YES	HIGHER DECIBEL LEVELS ARE NOT APPLICABLE AT THIS SITE PER REVIEW OF CITY OFFICALS. MIN STC RATINGS WILL BE MET
	33	5.508.1 OZONE DEPLETION AND GLOBAL WARMING REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. 5.508.1.1 CFCS. INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCS. 5.508.1.2 HALONS. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS.	YES	SEE MECHANICAL DRAWINGS

TABLE 5.504.4.1
ADHESIVE VOC LIMIT

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVE NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP AND TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POUROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

TABLE 5.504.4.2
SEALANT VOC LIMIT

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 5.504.4.3
VOC LIMITS FOR ARCHITECTURAL COATINGS

COATING CATEGORY	EFFECTIVE 1/1/2010	EFFECTIVE 1/1/2012
FLAT COATINGS	50	
NONFLAT COATINGS	100	
NONFLAT HIGH GLOSS COATINGS	150	
SPECIALTY COATINGS		
ALUMINUM ROOF COATINGS	400	
BASEMENT SPECIALTY COATINGS	400	
BITUMINOUS ROOF COATINGS	50	
BITUMINOUS ROOF PRIMERS	350	
BOND BREAKERS	350	
CONCRETE CURING COMPOUNDS	350	
CONCRETE/MASONRY SEALERS	100	
DRIVEWAY SEALERS	50	
DRY FOG COATINGS	150	
FAUX FINISH COATINGS	350	
FIRE RESISTIVE COATINGS	350	
FLOOR COATINGS	100	
FORM-RELEASE COMPOUNDS	250	
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	
HIGH-TEMPERATURE COATINGS	420	
INDUSTRIAL MAINTENANCE COATINGS	250	
LOW SOLIDS COATINGS	120	
MAGNESITE CEMENT COATINGS	450	
MASTIC TEXTURE COATINGS	100	
METALLIC PIGMENTED COATINGS	500	
MULTICOLOR COATINGS	250	
PRETREATMENT WASH PRIMERS	420	
PRIMERS, SEALERS, AND UNDERCOATERS	100	
REACTIVE PENETRATING SEALERS	350	
RECYCLED COATINGS	250	
ROOF COATINGS	50	
RUST PREVENTATIVE COATINGS	400	250
SHELLACS		
CLEAR	730	
OPAQUE	550	
SPECIALTY PRIMERS, SEALERS, AND UNDERCOATERS	350	100
STAINS	250	
STONE CONSOLIDANTS	450	
SWIMMING POOL COATINGS	340	
TRAFFIC MARKING COATINGS	100	
TUB AND TILE REFINISH COATINGS	420	
WATERPROOFING MEMBRANES	250	
WOOD COATINGS	275	
WOOD PRESERVATIVES	350	
ZINC-RICH PRIMERS	340	

TABLE 5.504.4.5
FORMALDEHYDE LIMITS

PRODUCT	CURRENT LIMIT	JAN 1, 2012	JUL 1, 2012
HARDWOOD PLYWOOD VENEER CORE	0.05		
HARDWOOD PLYWOOD COMPOSITE CORE	0.08		0.05
PARTICLE BOARD	0.09		
NONFLAT COATINGS	0.11		
NONFLAT HIGH GLOSS COATINGS	0.21	0.13	

NOTE: GENERAL CONTRACTOR TO USE THESE NOTES AS A CHECKLIST FOR CALGREEN REQUIREMENTS FOR THIS PROJECT. THIS CHECKLIST SHOWS WHICH CODE SECTIONS ARE APPLICABLE TO THIS PROJECT AND WHERE TO REFER TO THE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION. GENERAL CONTRACTOR IS RESPONSIBLE TO INCLUDE ALL ITEMS APPLICABLE TO PROJECT IN THEIR BID.

CALIFORNIA GREEN BUILDING CODE STANDARDS - NONRESIDENTIAL MANDATORY MEASURES

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Architecture / Development
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Dallas Texas 75254

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F. ANDREW GERGES
OCT 3 0 2017

BISHOPS

BISHOPS - TENANT FINISHOUT
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19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
ALL EXISTING CONDITIONS AND
DIMENSIONS-NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

NO	REVISION

ISSUE

ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
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SHEET NUMBER
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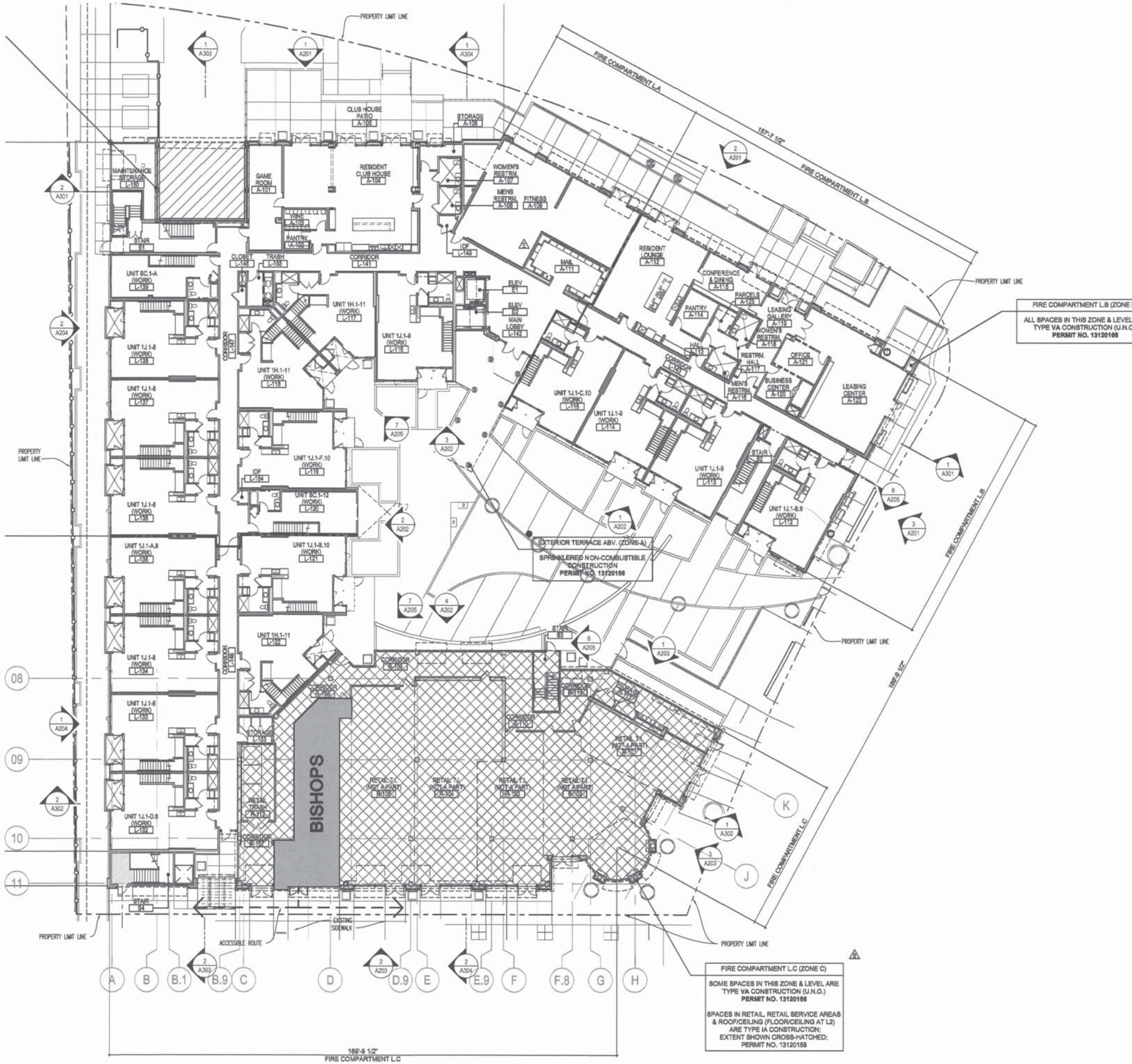

SITE PLAN NOTES:

1. ALL EXTERIOR DOORS OUT OF TENANT SPACE SHALL BE EQUIPPED WITH PANIC HARDWARE.
2. THE ACCESSIBLE PATHS OF TRAVEL AND ACCESSIBLE PARKING SERVING THIS TENANT SPACE EXIST AND ARE IN COMPLIANCE WITH THE CURRENT CODES.
3. THIS IS A TENANT INTERIOR FINISH OUT PROJECT ONLY AND THERE IS NO SCOPE OF WORK ON THE SITE OR EXTERIOR. ALL SITE AND EXTERIOR WORK HAS BEEN PERFORMED UNDER SEPARATE AND PREVIOUS PERMIT.
4. ALL EXISTING ACCESSIBLE PARKING SPACES TO REMAIN. EXISTING PARKING ARE IN FULL COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS PER PREVIOUS APPROVED PLANS. GC TO VERIFY.
5. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR ABRUPT CHANGES IN LEVEL EXCEEDING 1/2", AND SHALL BE A MINIMUM OF 48" IN WIDTH. WHEN ABRUPT CHANGES IN LEVEL NOT EXCEEDING 1/2" OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN 1:2, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. [§11B-302, 303, 403 CBC].
6. ABRUPT CHANGES IN LEVEL EXCEEDING 4" IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS, OR OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING CURBS AT LEAST 6" IN HEIGHT ABOVE THE WALK OR SIDE WALK SURFACE. [§11B-303.5 CBC].
7. ALL PARKING FOR THIS PARCEL IS BELOW GROUND, WITHIN THE PROPERTY LINE.

01 SITE PLAN
SCALE: 1/16"=1'-0"

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LICENSED ARCHITECT
F. ANDREW GEERS
NO. [illegible]
REGISTERED [illegible]
STATE OF [illegible]

OCT 3 0 2017

BISHOPS - TENANT FINISHOUT
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CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS–NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

ISSUE

ISSUE FOR PERMIT 10/30/17

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OCCUPANCY CALCULATIONS
FROM OCCUPANCY CALCULATIONS BASED ON 2016 CBC

OCCUPANTS ARE CALCULATED IN EACH INDIVIDUAL SPACE, THEN ROUNDED UP

ASSEMBLY AREAS	TOTAL SQ. FT.	OCC LOAD
BUSINESS 100 GROSS	960	10
TOTAL OCCUPANTS		10

LIFE SAFETY GENERAL NOTES:

A. ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

B. PROVIDE SIGN ON OR NEAR THE MAIN EXIT DOOR, READING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED".

TACTILE SIGNAGE:

A. WHEN SIGNS IDENTIFY A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, OR WHEN SIGNS DIRECT OR GIVE INFORMATION ABOUT A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, CORRESPONDING TACTILE SIGNAGE SHALL BE INSTALLED.

B. WHEN SIGNS IDENTIFY, OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURE OF A BUILDING OR SITE, THEY SHALL INCLUDE THE APPROPRIATE SYMBOL OF ACCESSIBILITY OR PICTOGRAM, WITH THE EQUIVALENT VISUAL AND TACTILE DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE BORDER OF THE PICTOGRAM SHALL BE MINIMUM 6" IN HEIGHT.

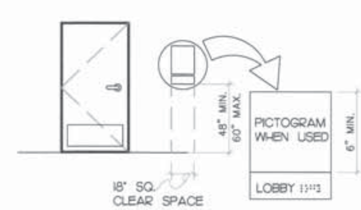
C. VISUAL CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT. THE HEIGHT OF VISUAL CHARACTERS SHALL BE A MINIMUM 5/8" PLUS 1/8" PER FOOT OF VIEWING DISTANCE OVER SIX FEET. CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH OF VISUAL ONLY CHARACTERS SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 30%. TACTILE SIGNAGE DUPLICATING THE INFORMATION SHALL BE PROVIDED, EITHER AS PART OF THE VISUAL SIGN OR A SEPARATE TACTILE SIGN PROVIDED.

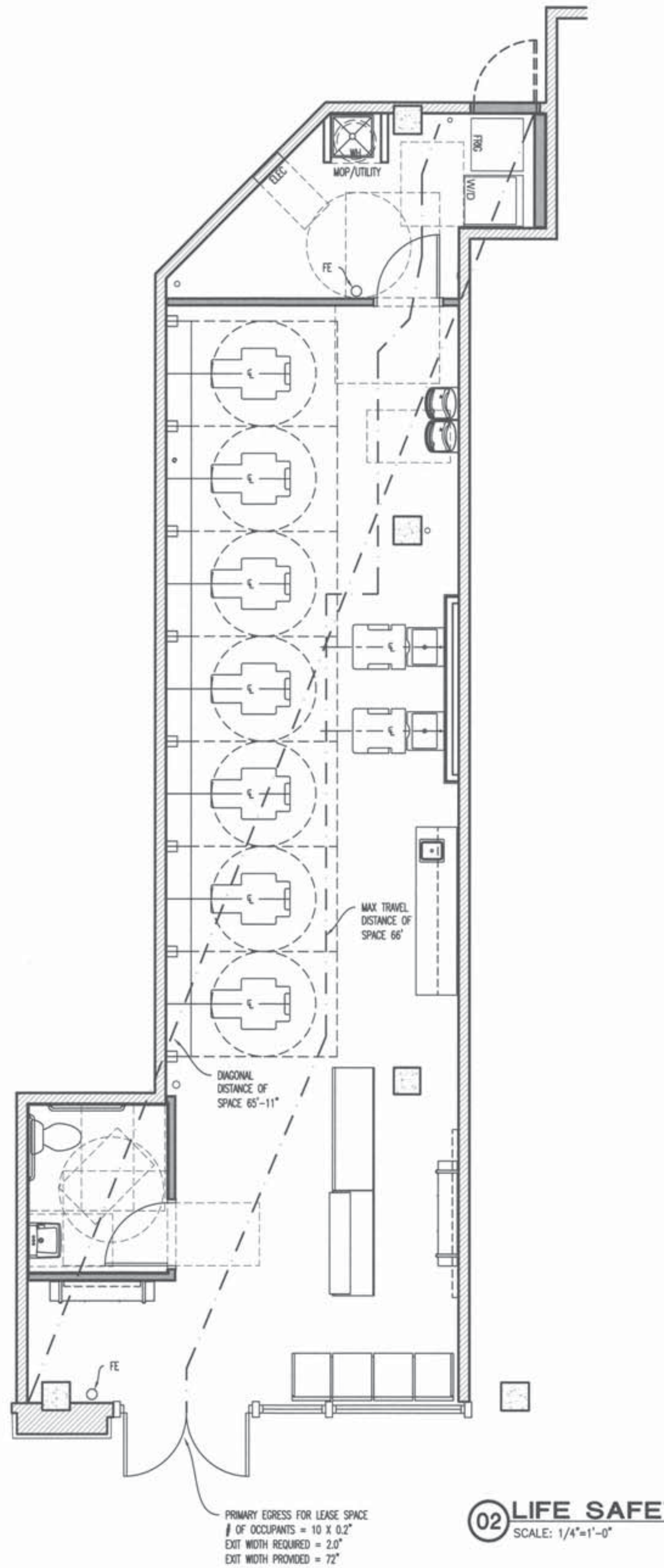
D. TACTILE CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT, RAISED 1/32" OFF THE BACKGROUND. THE HEIGHT OF TACTILE CHARACTERS SHALL BE BETWEEN 5/8" AND 2". CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 15%. CHARACTERS SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE.

E. GRADE 2 BRAILLE SHALL HAVE DOMED OR ROUNDED DOTS RAISED 1/40" OFF THE BACKGROUND, WITH DOTS SPACED 1/10" WITH-IN CELLS, AND 1/4" BETWEEN CELLS. (OR SPACED PER ANSI TABLE 703.5)

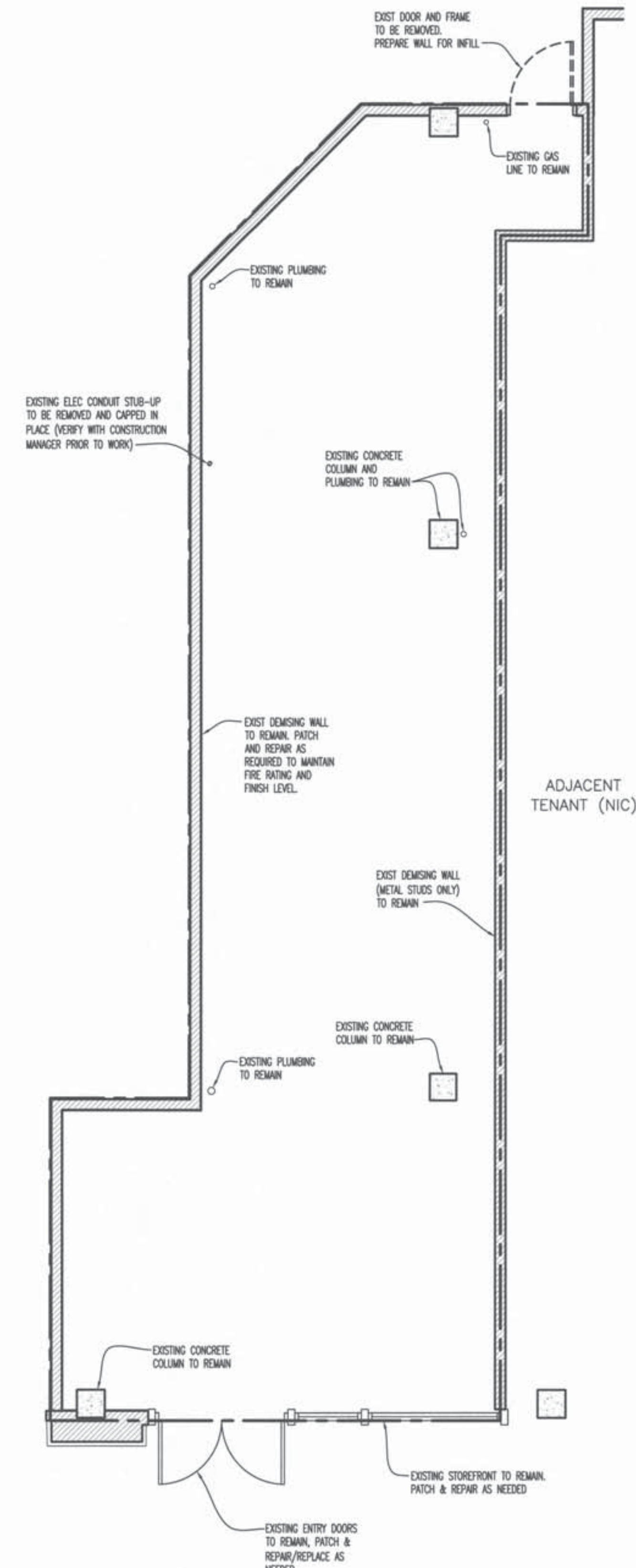
F. TACTILE SIGNS SHALL BE MOUNTED 48" MINIMUM, AND 60" MAXIMUM ABOVE THE FLOOR TO THE CENTERLINE OF THE SIGN. AN 18" X 18" CLEAR SPACE IS REQUIRED IN FRONT OF THE TACTILE SIGN, BEYOND THE ARC OF ANY DOOR SWING. WHERE SIGNS ARE MOUNTED AT DOORS, THE SIGN SHALL BE ON THE LATCH SIDE OF THE DOOR. WHERE SIGNS ARE MOUNTED AT DOUBLE DOORS, OR WHERE THERE IS NO WALL SPACE, THE SIGN SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL, PREFERABLY THE RIGHT SIDE.

G. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. CHARACTERS, SYMBOLS AND BACKGROUNDS SHALL HAVE A NON-GLARE FINISH.





02 LIFE SAFETY & OCCUPANCY PLAN
SCALE: 1/4"=1'-0"



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

DEMOLITION GEN NOTES:

1. CONTRACTOR TO ON-SITE VERIFY THE EXTENT OF DEMOLITION SHOWN HERE PRIOR TO BID AND COORDINATE WITH OWNER'S REPRESENTATIVE THE FULL SCOPE OF WORK.
2. ITEMS WHICH ARE TO REMAIN AND ARE DAMAGED DURING PERFORMANCE OF WORK SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION OR REPLACED WITH NEW.
3. DO NOT OVERLOAD STRUCTURAL ELEMENTS. PROVIDE NEW SUPPORTS AND REINFORCEMENT FOR EXISTING CONSTRUCTION WEAKENED BY DEMOLITION OR REMOVAL WORK.
4. WHERE PORTIONS OF THE INTERIOR SURFACES OF THE FACILITY ARE EXPOSED TO THE WEATHER PROTECT ALL SURFACES AT ALL TIMES WITH VISQUEEN.
5. PROTECT ALL ELECTRICAL AND MECHANICAL SERVICES, WHICH ARE TO REMAIN.
6. TERMINATE ALL ELECTRICAL AND MECHANICAL SERVICE TO BE REMOVED IN A MANNER CONFORMING TO THE NATIONALLY RECOGNIZED CODE COVERING THE SPECIFIC UTILITY AND SATISFACTORY TO THE OWNER AND BUILDING OFFICIALS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUESTING ALL INSPECTIONS REQUIRED.
8. ON COMPLETION OF EACH DAYS WORK, DEMOLITION DEBRIS SHALL BE REMOVED AND SHALL BE LEFT IN A CLEAN CONDITION, SATISFACTORY TO THE OWNER.
9. REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER THAT WILL PREVENT SPILLAGE ON STREETS AND ADJACENT AREAS. CLEAN UP SPILLAGE FROM STREETS AND ADJACENT AREAS, WHERE OCCURS.
10. COMPLY WITH FEDERAL, STATE AND LOCAL HAULING AND DISPOSAL REGULATIONS.
11. AFTER DEMOLITION, THE CONTRACTOR SHALL VERIFY AND INSURE FULL OPERATION OF EXISTING ELECTRICAL DEVICES THAT ARE TO REMAIN.
12. NO WALL OR PART OF WALL SHALL BE PERMITTED TO FALL IN ANY DIRECTION UNRESTRAINED.
13. PROVIDE DUST BARRIERS AT LOCATIONS DIRECTED BY LANDLORD.
14. ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL BUILDING CODES, ORDINANCES, AND ANY GOVERNING AGENCIES HAVING JURISDICTION OVER THE PROJECT.
15. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND AS REQUIRED BY THE CURRENT EDITION OF THE BUILDING CODE, LOCAL CODES, AND AUTHORITIES.
16. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO AREAS AS PERMITTED BY THE LANDLORD.
17. GC TO PROVIDE CONSTRUCTION BARRICADES AS REQUIRED BY LANDLORD FIELD VERIFY REQUIREMENTS WITH LANDLORD.
18. MAINTAIN INTEGRITY OF ALL FIRE RATED PARTITIONS OR SHAFTS - GC TO REPAIR/REPLACE FIRE PROOFING DAMAGED DURING DEMOLITION.
19. ON ALL EXISTING DOOR TO REMAIN, TENANT G.C. TO VERIFY CONDITION & HARDWARE REFURBISHED TO LIKE NEW CONDITION. COORDINATE W/ARCHITECT REPLACEMENT & HARDWARE
20. GENERAL CONTRACTOR TO INSPECT PREMISES PRIOR TO DEMOLITION TO DETERMINE EXTENT OF WORK INVOLVED AND TO MAINTAIN STRUCTURAL INTEGRITY. ELECTRICAL CONTRACTOR TO DISCONNECT ALL ELECTRICAL ITEMS AND REMOVE WIRING AT AREAS OF DEMO SHOWN DASHED. REFER TO NEW PLAN & INSPECT PREMISES TO DETERMINE EXTENT OF WORK. CAP ELECTRICAL LINES WHERE REMOVED. PLUMBING CONTRACTOR TO DISCONNECT, CAP AND REMOVE PLUMBING FIXTURES, WATER, SEWER AND GAS PIPING AS REQUIRED PER NEW PLUMBING PLAN. INSPECT PREMISES TO DETERMINE EXTENT OF WORK. VERIFY QUANTITY AND LOCATIONS.
21. ANY CHANGES TO THE DRAWINGS OR CONTRACT DOCUMENTS SHALL BE APPROVED IN WRITING BY OWNER'S REP PRIOR TO START OF WORK.
22. GENERAL CONTRACTOR TO COORDINATE WITH ALL TRADES DURING DEMOLITION.
23. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER OF ITEMS IN QUESTION AND/OR CONFLICTS PRIOR TO CONTINUING DEMO.
24. SPRINKLER SYSTEM TO REMAIN. MODIFICATIONS TO THE HEIGHT AND LOCATION OF SPRINKLER HEADS NEED TO BE COORDINATED WITH MECHANICAL DUCT LAYOUT.
25. EXISTING STOREFRONT SYSTEMS THAT ARE TO REMAIN MUST HAVE HOLES, DAMAGE, ETC. TO BE PATCHED & REPAIRED AS NEEDED.
26. REMOVE UNUSED FIRE ALARM EQUIPMENT AS NECESSARY.
27. WHEN WALLS, COLUMNS OR OTHER SUPPORTING AND/OR BRACING ELEMENTS ARE SCHEDULED FOR DEMOLITION, STRUCTURAL SUPPORTS AND BRACING FOR THE ADJACENT CONSTRUCTION SHALL BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT SUPPORTING STRUCTURES ARE IN PLACE AND ABLE TO SUPPORT IMPOSED LOADS.

DEMO WALL LEGEND

Symbol	Description
(hatched)	EXISTING WALLS TO REMAIN
(dashed)	EXISTING WALLS/FIXTURE/ITEM TO BE REMOVED

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LICENSED ARCHITECT F. ANDREW GEIGER ... STATE OF CALIFORNIA
OCT 3 0 2017

BISHOPS
BISHOPS - TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS-NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO	REVISION

ISSUE

ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER C170339

SHEET NUMBER D101

DATE OF THIS PRINTING - 10/26/17

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DRAWING NAME: D101-C170339-BISHOPS.DWG
LAYOUT: D101
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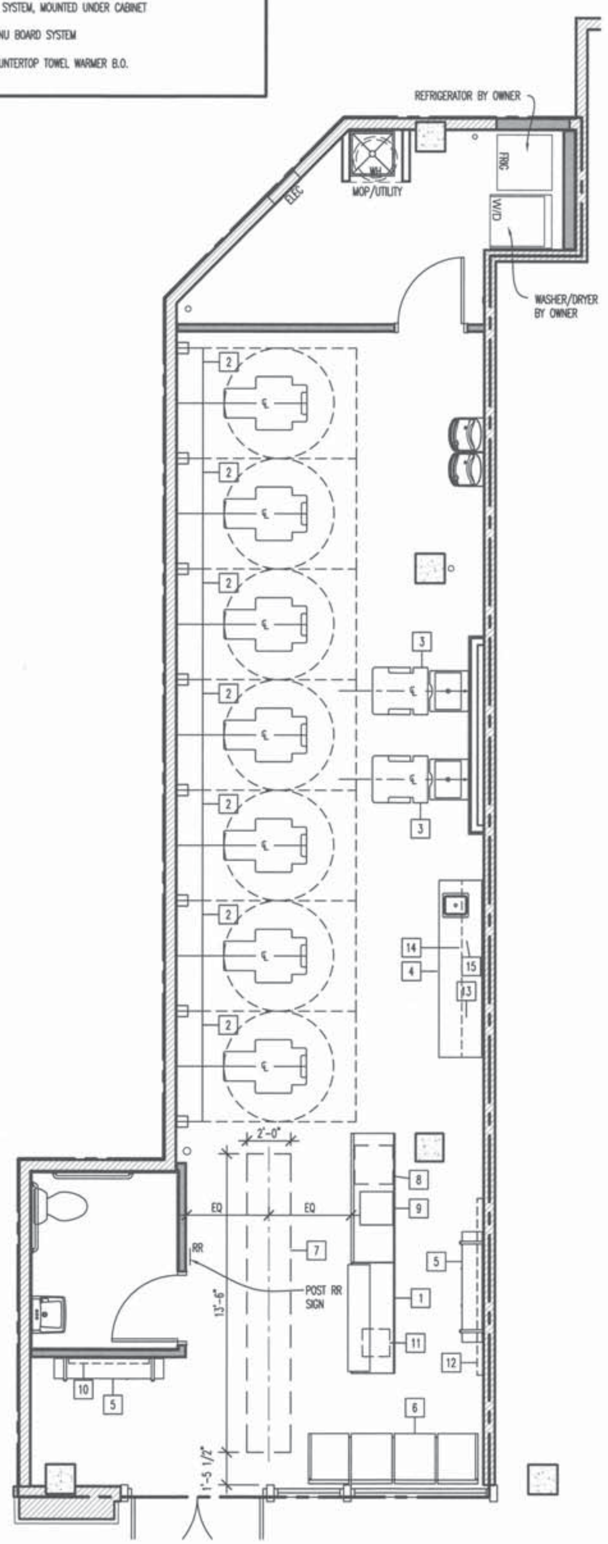
KEYED FURNISHING NOTES:

1 — CASH WRAP, REF: 04/MW01
2 — CUTTING STATION, REF: 20/MW01
3 — SHAMPOO STATION, REF: 24/A601 AND PLUMB DRAWINGS
4 — DISPENSARY, REF: 18/MW01
5 — PRODUCT DISPLAY, REF: 02/MW01
6 — CHAIR SEATING, B.O.
7 — LOGO PAINTED ON FLOOR
8 — MINI REFRIGERATOR, MOUNTED UNDER CABINET
9 — SAFE, MOUNTED UNDER CABINET
10 — 50" TV MOUNTED ON WALL BRACKET
11 — AV SYSTEM, MOUNTED UNDER CABINET
12 — MENU BOARD SYSTEM
13 — COUNTERTOP TOWEL WARMER B.O.

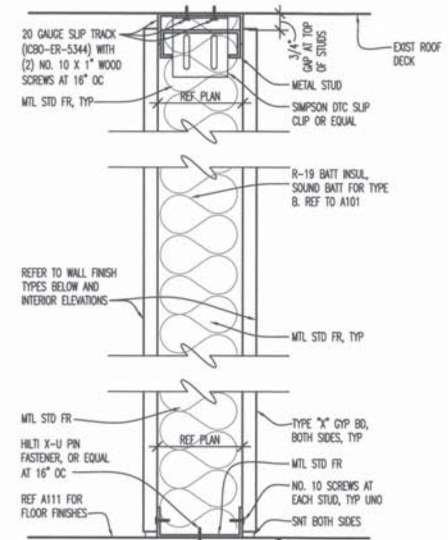
NOTE:
WASHER/DRYER IS PROVIDED BY OWNER BUT MUST COMPLY WITH THE FOLLOWING CODE SECTIONS OF THE CALIFORNIA BUILDING CODE:

A. WASHING MACHINE SHALL COMPLY WITH CBC 11B-611.
B. DYER MACHINE SHALL COMPLY WITH CBC 11B-611.
C. PROVIDE CLEAR FLOOR SPACE IN ACCORDANCE WITH CBC 11B-611.2.
D. OPERABLE PARTS, INCLUDING THE DOORS, LINT SCREENS, AND DETERGENT AND LEACH COMPARTMENTS, SHALL COMPLY WITH CBC 11B-309 PER CBC 11B-611.3.
E. TOP LOADING MACHINES SHALL HAVE THE DOOR TO THE LAUNDRY COMPARTMENT LOCATED 36" MAXIMUM ABOVE THE FINISH FLOOR PER CBC 11B-611.4.
F. FRONT LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT LOCATED 15" TO 36" ABOVE THE FINISH FLOOR PER CBC 11B-611.4.



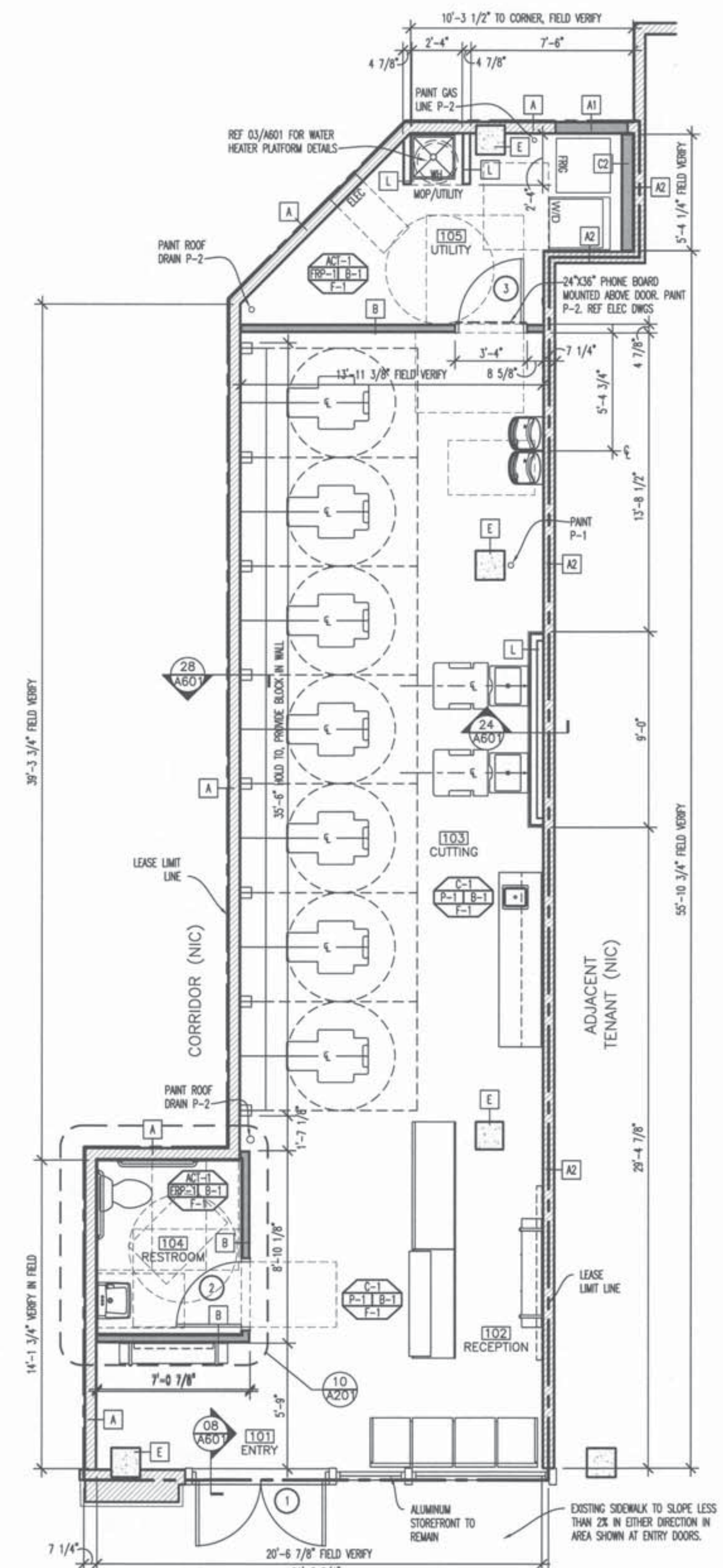
04 FURNISHING & WALL ELEMENTS PLAN
SCALE: 1/4"=1'-0"

WALL LEGEND DETAILING:



METAL STUD: ATI-CCRR-0207
HILTI FASTENER: ICC-ESR-2269

02 WALLS TO DECK
SCALE: 3"=1'-0"



01 FLOOR PLAN
SCALE: 1/4"=1'-0"

WALL TYPES:

A — EXISTING DEMISING WALL PER UL U-419: 6" 18 GA METAL STUDS FROM FLOOR TO DECK @ 16" O.C. WITH 5/8" TYPE X GYP BD BOTH SIDES, 3" MINERAL WOOL OR FIBER INSULATION, FIRE TAPE JOINTS AND FIRE CAULK OPENINGS AT DECK. REFER TO 02/A101

A1 — NEW DEMISING WALL INFILL PER UL U-419: 6" 18 GA METAL STUDS FROM FLOOR TO DECK @ 16" O.C. WITH 5/8" TYPE X GYPSUM BOTH SIDES, 3" MINERAL WOOL OR FIBER INSULATION, FIRE TAPE JOINTS AND FIRE CAULK OPENINGS.

A2 — NEW DEMISING WALL PER UL U-419: EXISTING BY LANDLORD: 6" 18 GA METAL STUDS FROM FLOOR TO DECK @ 16" O.C. TENANT TO ADD: 5/8" TYPE X GYP BD BOTH SIDES, 3" MINERAL WOOL OR FIBER INSULATION, FIRE TAPE JOINTS AND FIRE CAULK OPENINGS AT DECK. REFER TO 02/A101

B — 3-5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP BD TO DECK ON BOTH SIDES WITH BATT INS FULL DEPTH OF STUD. REFER TO 02/A101

C — 3-5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP BD BOTH SIDES TO 10'-0" A.F.F. REFER TO 03/A101

C1 — 3-5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP BD BOTH SIDES TO 14'-6" A.F.F. REFER TO 03/A101

C2 — 6" METAL STUDS @ 16" O.C. WITH 5/8" GYP BD ONE SIDE TO 6" ABOVE CEILING.

E — EXIST CONC WALL. PREPARE SURFACE TO RECEIVE NEW PAINT FINISH WHERE EXPOSED.

L — LOW WALL CONST 3-5/8" METAL STUDS @ 8" O.C. WITH 5/8" GYPSUM BOTH SIDES. REF DTL 03/A601

WALL TYPE NOTES:

1. ALL WALLS EXTENDING TO DECK TO UTILIZE A SLIP TRACK TO ALLOW FOR A MINIMUM OF 3/4" VERTICAL MOVEMENT.
2. AT ALL WALL TYPES, PROVIDE TILE BACKER BOARD WHERE WET WALLS OCCUR. BACKER BOARD SHALL BE HEIGHT OF TILE FINISH SHOWN ON ELEVATIONS.
3. ALL WALLS SHALL RECEIVE LEVEL 4 SMOOTH FINISH, TO BE CONFIRMED IN FIELD BY CM.
4. ALL WALLS EXTENDING ABOVE 13'-0" SHALL BE FRAMED WITH 18 GA METAL FRAMING.
5. WALLS AT MOP SINK TO RECEIVE FRP.
6. FRAMING CONTRACTOR SHALL PROVIDE SOLID WOOD BLOCKING AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES, INCLUDING, BUT NOT LIMITED TO - WALL MOUNTED SHELVING, BASE AND UPPER CABINETS, CUBBIES, CLOSET SHELVING AND RODS, WALL MOUNTED DOOR STOPS, TOILET ROOM PARTITIONS, LAY'S, GRAB BARS, TOILET ROOM EQUIPMENT AND ACCESSORIES, MOP SINKS, TV LOCATIONS, DRINKING FOUNTAINS, AND WALL MOUNTED LIGHT FIXTURES

LEGEND:

REFER TO A001 FOR SYMBOLS KEY & LEGEND

- NEW WALL PARTITION
- LOW WALL
- EXISTING WALLS TO REMAIN

GENERAL NOTES:

1. PROVIDE (1) ONE FIRE EXTINGUISHER PER 3,000 S.F., VERIFY WITH LOCAL FIRE MARSHAL FOR TYPE & FINAL LOCATIONS PRIOR TO INSTALLATION.
2. REFER TO KEY PLANS FOR INTERIOR ELEVATIONS KEYS ON INTERIOR ELEVATION SHEETS.
3. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED TYPICAL.
4. INTERIOR FRAMING TO BE MIN 22 GA METAL FRAMING AT 16" OC UNLESS NOTED OTHERWISE. ALL FRAMING TO BE 3-5/8" MTL FRAMING UNLESS NOTED OTHERWISE. IF APPLICABLE, REFER TO STRUCTURAL NOTES FOR ADDITIONAL FRAMING INFORMATION.
5. GC TO INSULATE BEHIND ALL PLUMBING IN EXTERIOR WALLS TYP.
6. ALL DIMENSIONS TO FACE OF FINISH, U.N.O.
7. INTERIOR "HOLD" OR "CLEAR" DIMENSIONS ARE FINISH DIMENSIONS.
8. REF ELECTRICAL DRAWINGS FOR OUTLETS HEIGHTS. USE G.F.I. OUTLETS WHERE REQUIRED BY CODE.
9. REFER TO OWNER'S VENDOR FOR INTERIOR SIGNAGE SCOPE.
10. ALL INTERIOR DOORS FRAMES SHALL BE SET AT 4" FROM ADJACENT PERPENDICULAR PARTITION, UNLESS OTHERWISE NOTED OR DIMENSIONED.
11. CONTRACTOR SHALL PERFORM SITE VISIT AND VERIFY ALL EXISTING CONDITIONS BEFORE PROVIDING PRICING AND PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING SITE CONDITIONS IMMEDIATELY UPON DISCOVERY AND SHALL OBTAIN WRITTEN DIRECTION BEFORE COMMENCING CONSTRUCTION OF ANY ITEMS IN QUESTION.

CEILING FINISH — WALL — BASE — FLOOR FINISH

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LAYOUT: A101
Oct 26, 2017 - 11:53am

MATERIAL/FINISH SCHEDULE

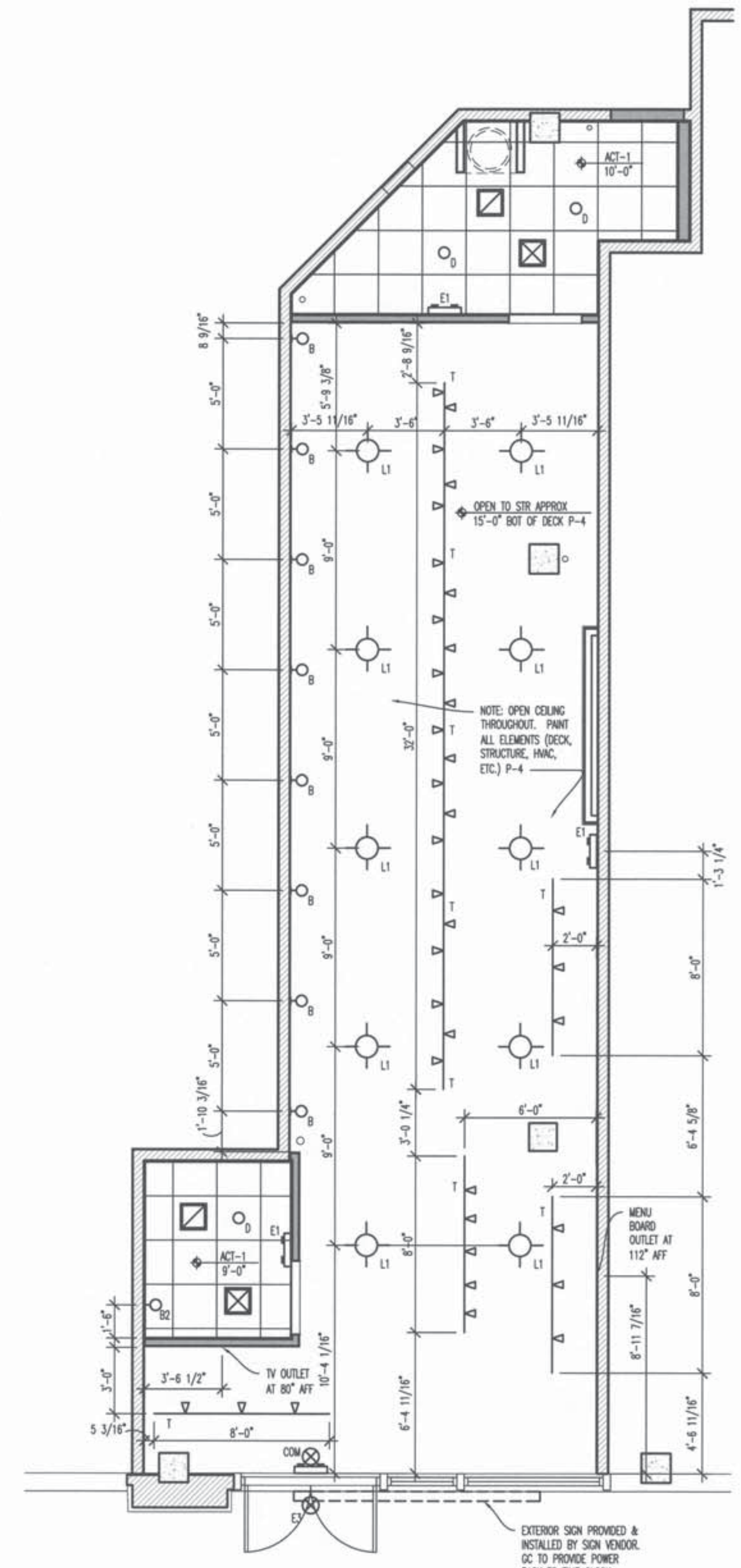
FINISH	DESCRIPTION
B	**BASES**
B-1	WOOD BASE: MANUFACTURER: G.C. SOURCE PRODUCT: 1x4 S4S WHITE OAK BASE COLOR: STAIN ST-1
B-2	VINYL BASE: MANUFACTURER: ROPPE PRODUCT: 4" COVE BASE - 700 SERIES COLOR: CHARCOAL #123
	CEILINGS / GYP / WALL COVERING
C-1	EXPOSED CEILING TO STRUCTURE AND DECK PAINT ALL EXPOSED ELEMENTS INCLUDING HVAC DUCTWORK P-4
ACT-1	2' x 2' ACOUSTIC SUSPENDED CEILING GRID: STANDARD 15/16" STEEL - WHITE FINISH TILES: ARMSTRONG ULTIMA HEALTH ZONE SQUARE LAY IN (OR APPROVED EQUAL) - WHITE FINISH. CENTER GRID IN SPACE - OR AS SHOWN.
FRP-1	FRP - WHITE. GC PROVIDED INSTALL OVER 5/8" GYP BD OR TILE BACKER BD AT WET LOCATIONS
WT-1	PRODUCT: 4"x8" SUBWAY WALL TILE MFR: VILLEROY & BOCH, SUBWAY-3215, COLOR: WHITE SMOOTH 1050 INSTALLATION: RUNNING BOND GROUT: CUSTOM BUILDING PRODUCTS, COLOR #370 DOVE GRAY, 1/4" JOINT. GROUT NOTE: USE GROUT BOOST STAIN RESISTANT GROUT ADDITIVE (MIXES WITH CEMENT BASED GROUT) IN PLACE OF WATER.
F	**FLOOR FINISHES / TILE**
F-1	EXPOSED CONCRETE: GRIND AND POLISH PER BELOW: GRIND/CUT TWO PASSES OVER WITH 40 METALS GRIND/CUT TWO PASSES OVER WITH 80 METALS GRIND/CUT TWO PASSES OVER WITH 150 METALS CONCRETE POLISH WITH 100 RESINS CONCRETE POLISH WITH 200 RESINS APPLY SCOFIELD FORMULA ONE DENSIFIER CONCRETE POLISH WITH 400 XENITH PAD CONCRETE POLISH WITH 800 XENITH PAD CONCRETE POLISH WITH 1,500 XENITH PAD APPLY SCOFIELD FORMULA ONE GUARD W SEALER HIGH SPEED BURNISH WITH 3,000 GRIT DIAMOND IMPREGNATED PAD
P	**PAINT & STAIN**
P-1	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-7624 SLATE TILE - SATIN NOTE: ALL WALLS TO BE PAINTED P-1 UNLESS NOTED OTHERWISE
P-2	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: HGSW-4026 OXFORD WHITE - SATIN
P-3	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-6884 OBSTINATE ORANGE - SATIN
P-4	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-7624 SLATE TILE - DRY-FALL, FLAT
ST-1	MANUFACTURER: MINWAX COLOR/FINISH: 50% CLASSIC GREY 271, 50% DARK WALNUT 2716, MINWAX WOOD FINISH STAIN

RCP LEGEND

SYMBOL	DESCRIPTION
A	CEILING FLUSH MOUNT LIGHT: MANF: WAC LIGHTING MODEL #FM-4009-30-CH, 10W LED A120V
B	WALL MOUNT LIGHT: MANF: CUSTOM LIGHT FIXTURE, 22W LED 120V. DAMP LABEL, MOUNT B/O 3'-8" AFF
B2	WALL MOUNT LIGHT: MANF: GEORGE KOVACS MODEL #P5044-840-L, 10W A120V MOUNT ABOVE MIRROR AT 84" AFF
D	RECESSED CAN LIGHT (DAMP LABEL COMPATIBLE) MANF: JUNO, 5" IC 900 LUMEN LED DOWNLIGHT MODEL #SP2940363-27K-N-1
COM	LED EMERGENCY EGRESS LIGHTING/SIGNAGE COMBO WITH 90 MINUTE BATTERY BACKUP MANF: BARRON EXITRONIX, - VLED-EL90 SERIES, MODEL #GVLED-U-BL-EL90
E1	LED EMERGENCY EGRESS LIGHTING WITH 90 MINUTE BATTERY BACKUP - MANF: BARRON EXITRONIX, - LED-EL90 SERIES, MODEL #LED-90-BL
E2	LED EMERGENCY EXIT SIGN WITH 90 MINUTE BATTERY BACKUP - ARROW DENOTES DIRECTIONAL SIGNAGE MANF: HUBBELL LIGHTING, - COMPASS SERIES, MODEL #CER
E3	LED EMERGENCY EXTERIOR EGRESS LIGHTING - CONNECTED TO EXIT SIGN BATTERY BACKUP- MANF: HUBBELL LIGHTING, - COMPASS SERIES, MODEL #CORD
G	2x4 RECESSED LED LUMINAIRE FIXTURE MANF: INDY LIGHTING MODEL #S2X4BL-39-30-U-WH-3
L1	DECORATIVE PENDANT LIGHT MANF: CUSTOM, AIRCRAFT CABLE SUSPENDED, 22W LED, 120/277V, DAMP LABEL, MOUNT SO B/O FIXTURE IS AT 9'-0" A.F.F.
T	TRACK LIGHT SYSTEM: MANF: JUNO, TRAC-MASTER TRACK, & TRAC-LITES FIXTURES MODEL #T 4 OR 8 FT TRACKS BL, SP36475-35-K-F-BL FIXTURE HEADS, PAR20 LED 8W-10W A120V, BOT OF TRACK AT 108" AFF, 3 HEADS PER STATION AND AS SHOWN
	26"ø ROUND HVAC DIFFUSER, MOUNTED AT 120" AFF
	24" X 24" HVAC DIFFUSER
	12" X 12" HVAC DIFFUSER
	24" X 24" HVAC RETURN
	EXHAUST FAN

RCP NOTES

1. ALL ACOUSTIC TILE JOINT LINES TO BE ALIGNED & COORDINATED FOR FIXTURE PLACEMENT, AVOIDING LESS THAN 1/2 OF A TILE AROUND THE PERIMETER WHEREVER POSSIBLE.
2. ANY LIGHT NOT DIMENSIONALLY LOCATED IS TO BE CENTERED IN THE CEILING TILE, CEILING AREA, OR ROOM AS APPLICABLE. ALL "CAN" TYPE FIXTURES TO BE MOUNTED IN THE CENTER OF THE CEILING TILES UNLESS NOTED OTHERWISE
3. SPRINKLER MODIFICATIONS/INSTALLATION DRAWINGS ARE BY OTHERS, UNDER SEPARATE PERMIT.
4. REFER TO DETAIL AND NOTES ON 04/A121 FOR TYPICAL SUSPENDED CEILING ATTACHMENTS AND SUPPORT.
5. CENTER CAN LIGHTS IN TILE WHEN LOCATED IN ACT, UNLESS OTHERWISE NOTED.
6. GC TO PROVIDE STRUCTURAL BLOCKING FOR ALL EXTERIOR SIGNAGE. COORDINATE EXACT LOCATIONS WITH SIGNAGE VENDOR.

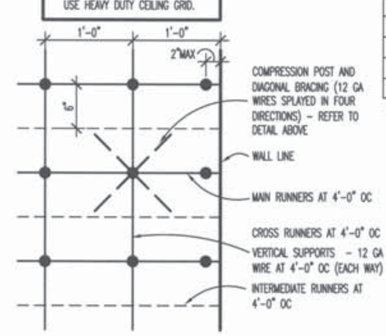


(01) REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

NOTES:
1. ALL WIRES (VERTICAL AND SPLAYED) SHALL BE #12 GA. GALV. STEEL.
2. EACH END OF ALL WIRES SHALL HAVE 3 TIGHT TURNS WITHIN 1 1/2" OF ATTACHMENT.
3. VERTICAL HANGER WIRES SHALL OCCUR AT 48" MAX. ALONG ALL MAIN RUNNERS. VERT. HANGER WIRES SHALL ALSO OCCUR AT ALL MAIN RUNNERS WITHIN 8" MAX. OF ALL WALLS AND CLG. DISCONTINUITIES. VERTICAL HANGER WIRES SHALL NOT BE MORE THAN 1 IN 6 OUT OF PLUMB.
4. SPLAY WIRES (4 AT 90 DEGREES FROM EACHOTHER) SHALL BE PROVIDED AT 12' O.C. IN BOTH DIRECTIONS AND NOT MORE THAN 6' FROM ANY WALL WHEN REQUIRED BY LOCAL/STATE CODES.
5. ALL CLG. LIGHT FIXTURES AND HVAC AIR REGISTERS SHALL BE SUPPORTED BY A MIN. OF (2) HANGERS AT OPPOSITE CORNERS CLG. SYSTEM SHALL NOT SUPPORT OTHER ITEMS.

CEILING NOTE:
CEILING TO COMPLY WITH REQUIREMENTS SET FORTH IN USG'S CEILING SYSTEM REPORT NUMBER ESR-1222

NOTE:
USE HEAVY DUTY CEILING GRID.



SUPPORT LIGHT FIXTURES INDEPENDENTLY OF CEILING GRID WITH ONE 12 GA WIRE AT OPPOSITE CORNERS OF FIXTURE (2 WIRES MIN). PROVIDE EARTHQUAKE CLIPS AT ALL FLUORESCENT FIXTURES AND 12 GA HANGERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. REF DETAIL 04

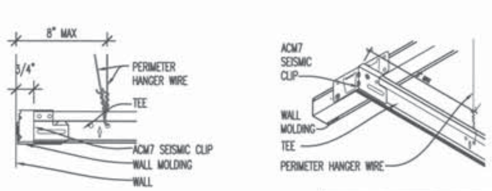
WIRES SHALL BE ATTACHED TO GRID AND STRUCTURE SO THAT WIRES ARE ABLE TO SUPPORT ACTUAL LOAD (200 LBS MIN) WITH A SAFETY FACTOR OF 2

COMPRESSION STRUT SCHEDULE	
HEIGHT*	EMT OPTION
UP TO 5'-0"	3/4" EMT
UP TO 6'-0"	1" EMT
UP TO 7'-0"	1-1/4" EMT
UP TO 10'-0"	-

* DISTANCE BETWEEN CEILING AND STRUCTURE ABOVE.

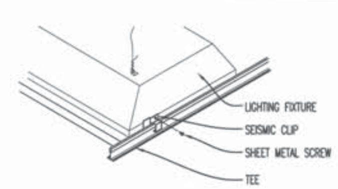
NOTE:
REFER DETAIL 03 FOR WALL EDGE.

(04) CEILING SUPPORT
SCALE: 1"=1'-0"



GRID IS TO BE ATTACHED TO CLOSURE ANGLE IN EACH ORTHOGONAL HORIZONTAL DIRECTION. THE OTHER END SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND REST UPON AND BE FREE TO SLIDE ON THE CLOSURE ANGLE

(02) SUSPENDED CEILING AT WALL
SCALE:N.T.S.



(03) LIGHT FIXTURE IN SUSPENDED CEILING
SCALE:N.T.S.

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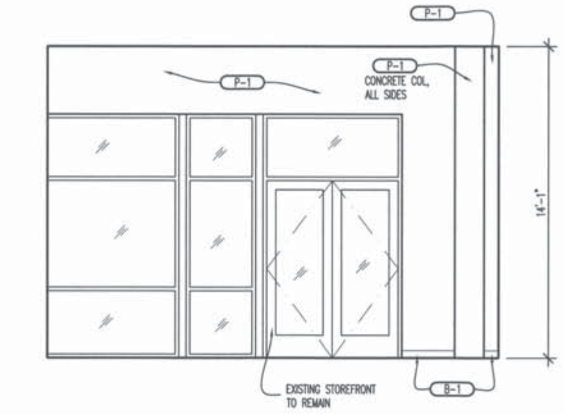

01 ENTRY
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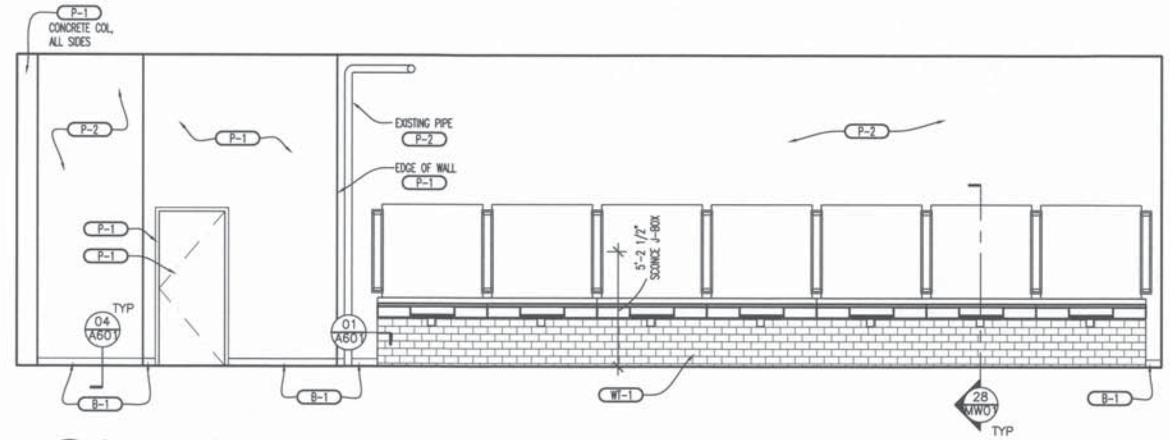
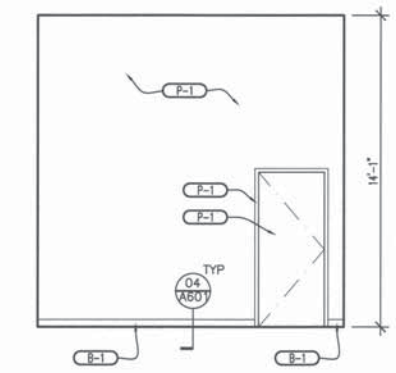
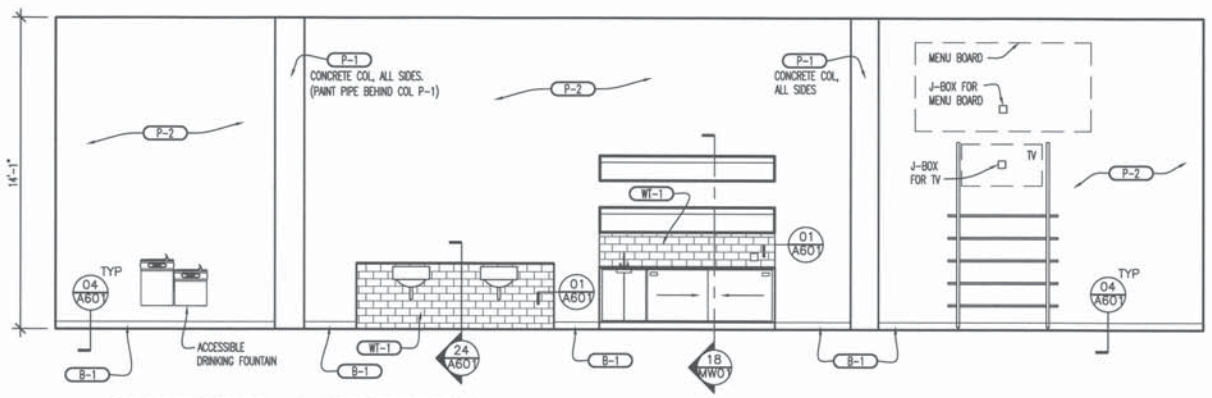


02 CUTTING
SCALE: 1/4"=1'-0"



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



04 CUTTING / RECEPTION
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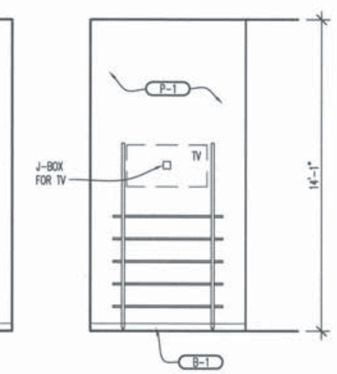

05 ENTRY
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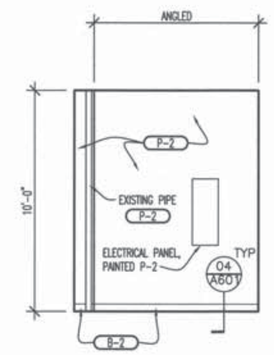
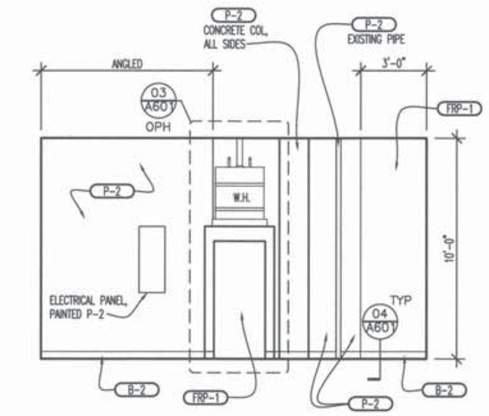


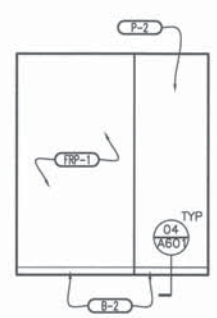
06 UTILITY ROOM
SCALE: 1/4"=1'-0"



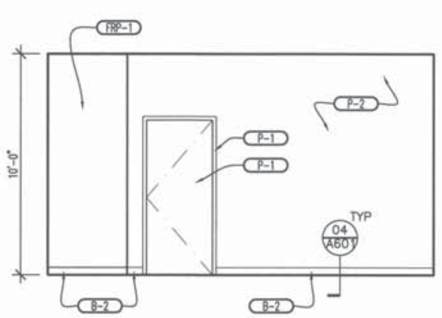
07 UTILITY ROOM
SCALE: 1/4"=1'-0"

MATERIAL/FINISH SCHEDULE

FINISH	DESCRIPTION
B	**BASES**
B-1	WOOD BASE: MANUFACTURER: G.C. SOURCE PRODUCT: 1x4 S4S WHITE OAK BASE COLOR: STAIN ST-1
B-2	VINYL BASE: MANUFACTURER: ROPPE PRODUCT: 4" COVE BASE - 700 SERIES COLOR: CHARCOAL #123
	CEILINGS / GYP / WALL COVERING
C-1	EXPOSED CEILING TO STRUCTURE AND DECK PAINT ALL EXPOSED ELEMENTS INCLUDING HVAC DUCTWORK P-4
ACT-1	2' x 2' ACOUSTIC SUSPENDED CEILING GRID: STANDARD 15/16" STEEL - WHITE FINISH TILES: ARMSTRONG ULTIMA HEALTH ZONE SQUARE LAY IN (OR APPROVED EQUAL) - WHITE FINISH. CENTER GRID IN SPACE - OR AS SHOWN.
FRP-1	FRP - WHITE. GC PROVIDED INSTALL OVER 5/8" GYP BD OR TILE BACKER BD AT WET LOCATIONS
WT-1	PRODUCT: 4"x8" SUBWAY WALL TILE MFR: VILLEROY & BOCH, SUBWAY-3215, COLOR: WHITE SMOOTH 1050 INSTALLATION: RUNNING BOND GROUT: CUSTOM BUILDING PRODUCTS, COLOR #370 DOVE GRAY, 1/4" JOINT. GROUT NOTE: USE GROUT BOOST STAIN RESISTANT GROUT ADDITIVE (MIXES WITH CEMENT BASED GROUT) IN PLACE OF WATER.
F	**FLOOR FINISHES / TILE**
F-1	EXPOSED CONCRETE: GRIND AND POLISH PER BELOW: GRIND/CUT TWO PASSES OVER WITH 40 METALS GRIND/CUT TWO PASSES OVER WITH 80 METALS GRIND/CUT TWO PASSES OVER WITH 150 METALS CONCRETE POLISH WITH 100 RESINS CONCRETE POLISH WITH 200 RESINS APPLY SCOFIELD FORMULA ONE DENSIFIER CONCRETE POLISH WITH 400 XENITH PAD CONCRETE POLISH WITH 800 XENITH PAD CONCRETE POLISH WITH 1,500 XENITH PAD APPLY SCOFIELD FORMULA ONE GUARD W SEALER HIGH SPEED BURNISH WITH 3,000 GRIT DIAMOND IMPREGNATED PAD
P	**PAINT & STAIN**
P-1	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-7624 SLATE TILE - SATIN NOTE: ALL WALLS TO BE PAINTED P-1 UNLESS NOTED OTHERWISE
P-2	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: HGSW-4026 OXFORD WHITE - SATIN
P-3	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-6884 OBSTINATE ORANGE - SATIN
P-4	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-7624 SLATE TILE - DRY-FALL, FLAT
ST-1	MANUFACTURER: MINWAX COLOR/FINISH: 50% CLASSIC GREY 271, 50% DARK WALNUT 2716, MINWAX WOOD FINISH STAIN



08 UTILITY ROOM
SCALE: 1/4"=1'-0"



09 UTILITY ROOM
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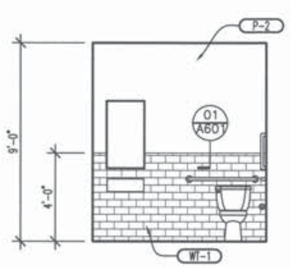
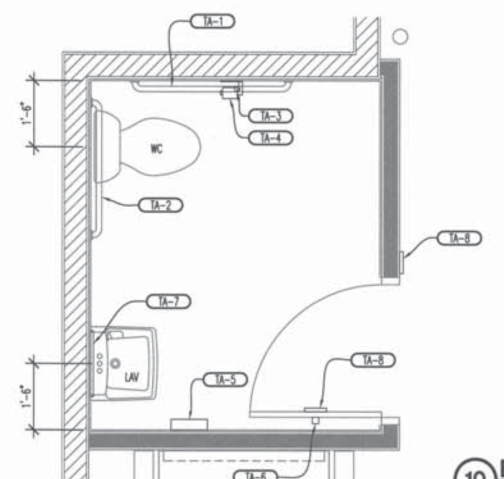


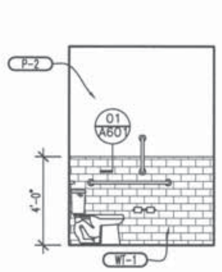
10 RESTROOM
SCALE: 1/4"=1'-0"



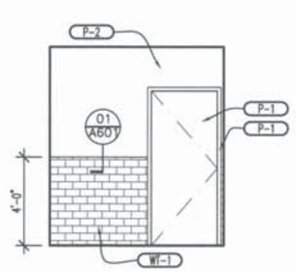
10 ENLARGED RESTROOM PLAN
SCALE: 1/2" = 1'-0"

RESTROOM ACCESSORIES (NO SUBSTITUTIONS)				
ITEM	DESCRIPTION	MANUFACTURER	MOUNTING HEIGHT	REMARKS
TA-1	GRAB BAR - 42"	BOBRICK: B-6806-42	36" A.F.F. TO TOP OF GRIPPING SURFACE	STAINLESS STEEL
TA-2	GRAB BAR - 36"	BOBRICK: B-6806-36	36" A.F.F. TO TOP OF GRIPPING SURFACE	STAINLESS STEEL
TA-3	GRAB BAR - 18"	BOBRICK: B-6806-18	MOUNT VERTICAL W/ BOTTOM AT 39" A.F.F.	STAINLESS STEEL
TA-4	TOILET PAPER DISPENSER		15" MIN A.F.F.; 48" MAX A.F.F.	TENANT PROVIDED, GC INSTALLED
TA-5	PAPER TOWEL DISPENSER		48" MAX TO DISPENSING SURFACE	TENANT PROVIDED, GC INSTALLED
TA-6	CLOTHES/COAT HOOK	BOBRICK: B-76727	48" A.F.F. MAX TO TOP OF HOOK	MOUNT TO BACK OF DOOR TYP
TA-7	18"x36" RECT MIRROR W/ S/S EDGE		40" A.F.F. TO BOTTOM OF MIRROR SURFACE	RESTROOMS CENTER OVER LAVATORY
TA-8	UNISEX ACCESSIBLE RESTROOM SIGN	COMPLIANCE SIGNS	60" A.F.F. TO CENTERLINE, 8" MAX. FROM DOOR LATCH	BLACK PLASTIC, REF TYPICAL ACCESSIBLE SIGNAGE, G002

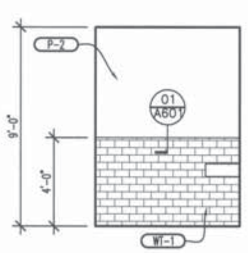
NOTE:
REFER TO PLUMBING DRAWINGS FOR W.C. AND LAVATORY SPECIFICATIONS



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

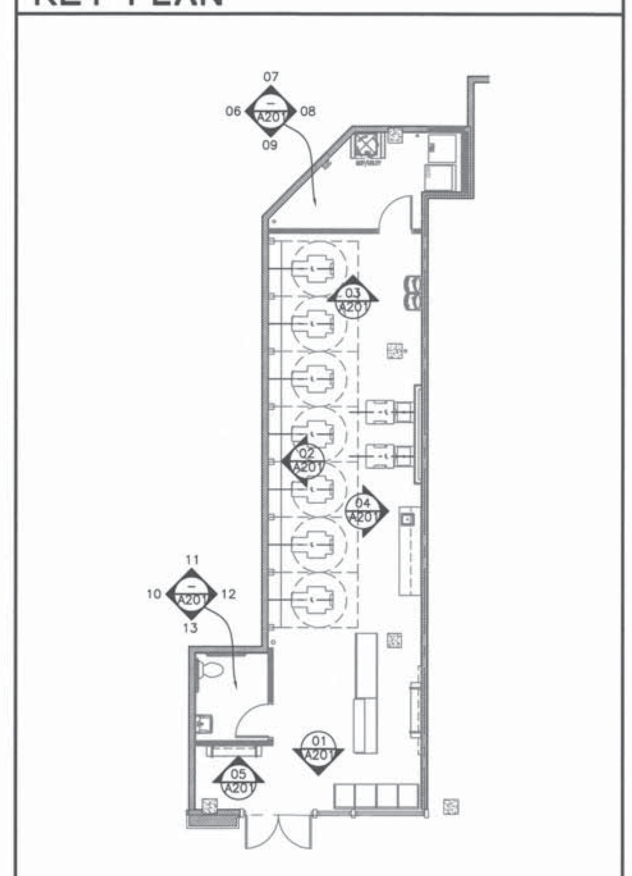


12 RESTROOM
SCALE: 1/4"=1'-0"



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

KEY PLAN



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ISSUE

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PROJECT NUMBER
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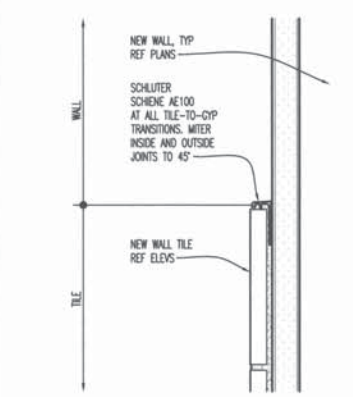


(01) TRANS AT WALL TILE TO GYP WALL
SCALE: 6"=1'-0"

(05) NOT USED
SCALE: NO SCALE

DOOR SCHEDULE

DOOR LOCATION	DOOR # / TYPE	DOOR TYPE	HARDWARE TYPE	DOOR SIZE (WIDTH x HEIGHT) "PR" MEANS TWO EQUAL WIDTH UNITS IN OPENING	THICKNESS	DOOR MATERIAL	FRAME MATERIAL	WEATHERSTRIP	REMARKS
(E) MAIN ENTRY	1	-	1	3'-0" x 7'-0"	1 3/4"	ALUM	ALUM	X	EXISTING DOOR AND HARDWARE BY LANDLORD TO REMAIN.
RESTROOM	2	A	2	3-0" x 7'-0"	1 3/4"	SCW	H.M.	-	UNDERCUT DOORS AT RESTROOMS 1", SEE DIAGRAM ON G002 FOR ACCESSIBLE SIGNAGE
STORAGE / UTILITY / OFFICE	3	A	3	3'-0" x 7'-0"	1 3/4"	SCW	H.M.	-	

* SIMILAR CONDITION

GENERAL HARDWARE NOTES
1. G.C. TO SUBMIT CUT SHEET PACKAGE FOR OWNER APPROVAL PRIOR TO ORDERING HARDWARE PACKAGE.
2. ALL LOCKS SHALL BE KEYED ALIKE
3. MAIN ENTRY DOORS TO HAVE DECAL ON MULLION ABOVE DOORS IN 1" HIGH LETTERS THAT READS: "DOORS TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED"
4. WHERE KD FRAMES ARE USED, ALL MITER JOINTS SHALL HAVE BONDO APPLIED PRIOR TO PAINTING.

MATERIAL/FINISH SCHEDULE

FINISH	DESCRIPTION
B	BASES
B-1	WOOD BASE: MANUFACTURER: G.C. SOURCE PRODUCT: 1x4 S4S WHITE OAK BASE COLOR: STAIN ST-1
B-2	VINYL BASE: MANUFACTURER: ROPPE PRODUCT: 4" COVE BASE - 700 SERIES COLOR: CHARCOAL #123
	CEILINGS / GYP / WALL COVERING
C-1	EXPOSED CEILING TO STRUCTURE AND DECK PAINT ALL EXPOSED ELEMENTS INCLUDING HVAC DUCTWORK P-4
ACT-1	2' x 2' ACOUSTIC SUSPENDED CEILING GRID: STANDARD 15/16" STEEL - WHITE FINISH TILES: ARMSTRONG ULTIMA HEALTH ZONE SQUARE LAY IN (OR APPROVED EQUAL) - WHITE FINISH. CENTER GRID IN SPACE - OR AS SHOWN.
FRP-1	FRP - WHITE. GC PROVIDED INSTALL OVER 5/8" GYP BD OR TILE BACKER BD AT WET LOCATIONS
WT-1	PRODUCT: 4"x8" SUBWAY WALL TILE MFR: VILLEROY & BOCH, SUBWAY-3215, COLOR: WHITE SMOOTH 1050 INSTALLATION: RUNNING BOND GROUT: CUSTOM BUILDING PRODUCTS, COLOR #370 DOVE GRAY, 1/4" JOINT. GROUT NOTE: USE GROUT BOOST STAIN RESISTANT GROUT ADDITIVE (MIXES WITH CEMENT BASED GROUT) IN PLACE OF WATER.
F	FLOOR FINISHES / TILE
F-1	EXPOSED CONCRETE: GRIND AND POLISH PER BELOW: GRIND/CUT TWO PASSES OVER WITH 40 METALS GRIND/CUT TWO PASSES OVER WITH 80 METALS GRIND/CUT TWO PASSES OVER WITH 150 METALS CONCRETE POLISH WITH 100 RESINS CONCRETE POLISH WITH 200 RESINS APPLY SCOFIELD FORMULA ONE DENSIFIER CONCRETE POLISH WITH 400 XENITH PAD CONCRETE POLISH WITH 800 XENITH PAD CONCRETE POLISH WITH 1,500 XENITH PAD APPLY SCOFIELD FORMULA ONE GUARD W SEALER HIGH SPEED BURNISH WITH 3,000 GRIT DIAMOND IMPREGNATED PAD
P	PAINT & STAIN
P-1	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-7624 SLATE TILE - SATIN NOTE: ALL WALLS TO BE PAINTED P-1 UNLESS NOTED OTHERWISE
P-2	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: HGSW-4026 OXFORD WHITE - SATIN
P-3	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-6884 OBSTINATE ORANGE - SATIN
P-4	MANUFACTURER: SHERWIN-WILLIAMS COLOR/FINISH: SW-7624 SLATE TILE - DRY-FALL, FLAT
ST-1	MANUFACTURER: MINWAX COLOR/FINISH: 50% CLASSIC GREY 271, 50% DARK WALNUT 2716, MINWAX WOOD FINISH STAIN

DOOR TYPES

A
SOLID CORE WOOD DOOR PAINTED PER ELEVATIONS

B
HOLLOW METAL DOOR

FINISH NOTES:
- PAINT ALL HOLLOW METAL DOOR FRAMES. REFER TO INTERIOR ELEVATIONS FOR COLOR

HARDWARE TYPES

(1) EXIST HARDWARE HINGE, CLOSER, SEALS, THRES, DEADBOLT, & LEVERS CAN REMAIN IF IN LIKE NEW COND, OTHERWISE SPEC PER BELOW.

6 EA HINGE: ECBB1100 4.5x4.5 FIN: US32D MFR: HGR
2 EA OFFSET DOOR PULL: 11JTB FIN: US32D MFR: HGR
1 EA DEAD BOLT: BC-100-630 MFR: SCH
2 EA SURFACE CLOSER: 4040 XP REG/PA FIN: AL MFR: LCN
2 EA FLUSH BOLTS: 282 (1 TOP & 1 BOT), FIN: US32D, MFR: HAGER
1 SET SEALS: PK33 BL 20' MFR: PEM
1 THRESHOLD: PEMKO 151 ALUM.

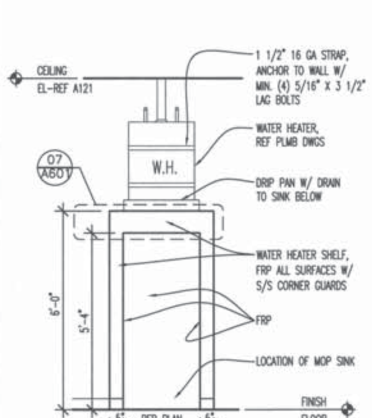
1 EA EXIT DEVICE / PANIC HARDWARE: JACKSON 1275 31127537628 36" FIN: 626 MFR: CRL

(2) 3 EA HINGE: 5BB1 4.5x4.5 NRP FIN: 630 MFR: IVES
1 EA PASSAGE SET: ND10S RHO FIN: 626 MFR: SCHLAGE
1 EA ADA THUMBTURN (OCCUPANCY INDICATOR): D271 FIN: 626 MFR: FALCON
1 EA WALL STOP: TA3211T FIN: 626 MFR: DCI -- OR --
1 EA HINGE STOP: 69F14 HEAVY DUTY HINGE PIN STOP FIN: US626 MFR: IVES
CONFIRM WITH CM WHICH STOP TO USE
1 SET SEALS: PK33 BL 17' MFR: PEM

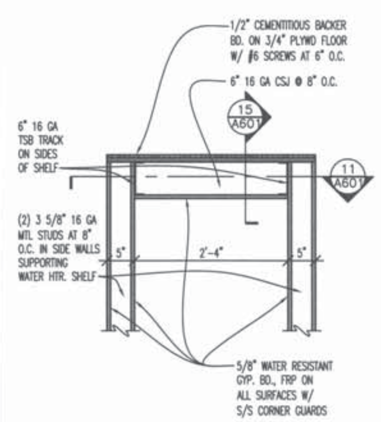
(3) 3 EA HINGE: 5BB1 4.5x4.5 NRP FIN: 630 MFR: IVES
1 EA CLASSROOM LOCK SET: ND70 RHO FIN: 626 MFR: SCHLAGE
1 EA WALL STOP: TA3211T FIN: 626 MFR: DCI -- OR --
1 EA HINGE STOP: 69F14 HEAVY DUTY HINGE PIN STOP FIN: US626 MFR: IVES
CONFIRM WITH CM WHICH STOP TO USE
1 SET SEALS: PK33 BL 17' MFR: PEM

DOOR / HARDWARE NOTES

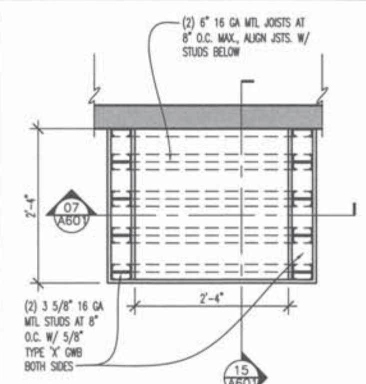
- DOOR CLOSERS SHALL TAKE AT LEAST THREE SECONDS TO MOVE TO A POINT THREE INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
- NEW DOORS SHALL BE LOCATED 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE, OR AS REQUIRED FOR HARDWARE INSTALLATION.
- DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE AT A MAXIMUM HEIGHT OF 48 INCHES (1219 MM) ABOVE THE FINISHED FLOOR. THE OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- ALL MEANS OF EGRESS DOORS SHALL BE OF A SIDE-SWINGING TYPE.
- ALL DOORS SHALL SWING IN THE DIRECTION OF EGRESS WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR WHERE SERVING A HIGH-HAZARD OCCUPANCY.
- THE OPENING FORCE FOR INTERIOR SIDE-SWINGING DOORS WITHOUT CLOSERS SHALL NOT EXCEED A 5-POUND (22 N) FORCE. FOR ALL OTHER SIDE-SWINGING, SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15-POUND (66 N) FORCE. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A 30-POUND (132 N) FORCE. THE DOOR SHALL SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15-POUND (66 N) FORCE. FORCES SHALL BE APPLIED TO THE LATCH SIDE.



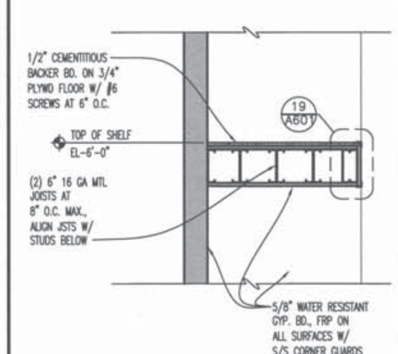
(03) ELEV @ W.H. SHELF
SCALE: 3/8"=1'-0"



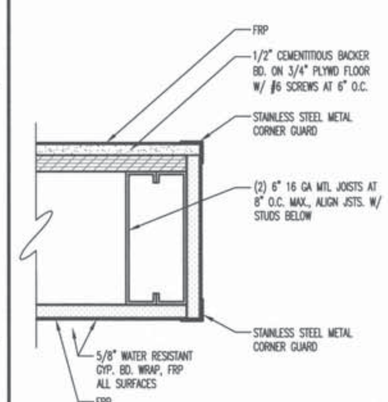
(07) WATER HTR SHELF
SCALE: 3/4"=1'-0"



(11) WATER HTR SHELF
SCALE: 3/4"=1'-0"

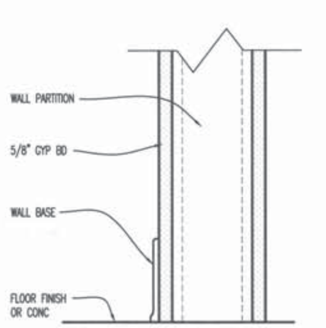


(15) WATER HTR SHELF
SCALE: 3/4"=1'-0"

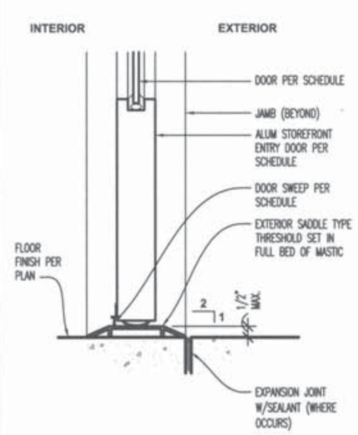


(19) SHELF EDGE DETAIL
SCALE: 3" = 1'-0"

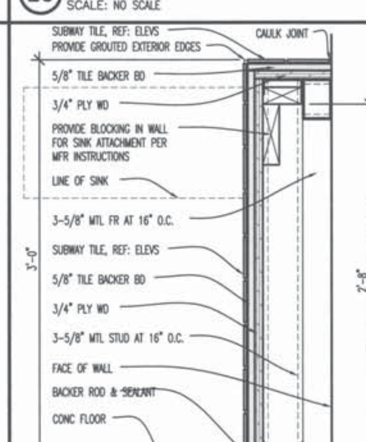
(23) NOT USED
SCALE: NO SCALE



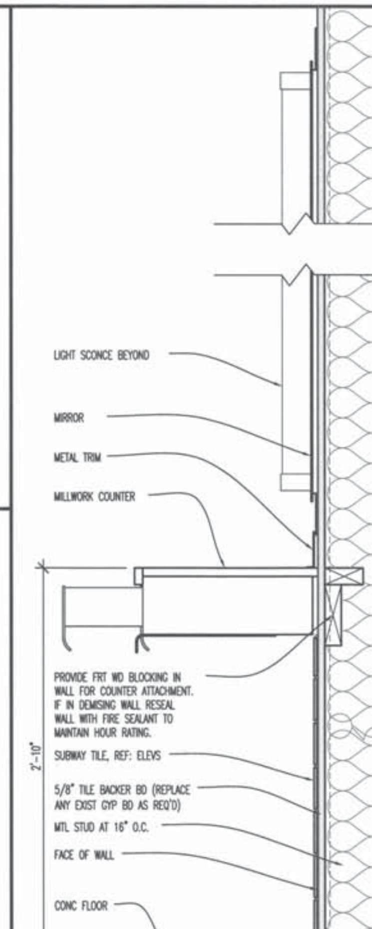
(04) BASE DTL
SCALE: 3" = 1'-0"



(08) EXT THRESHOLD
SCALE: 3" = 1'-0"



(24) SHAMPOO WALL
SCALE: 1 1/2"=1'-0"



(28) CUT STATION BLKG
SCALE: 1 1/2"=1'-0"

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PROJECT NUMBER
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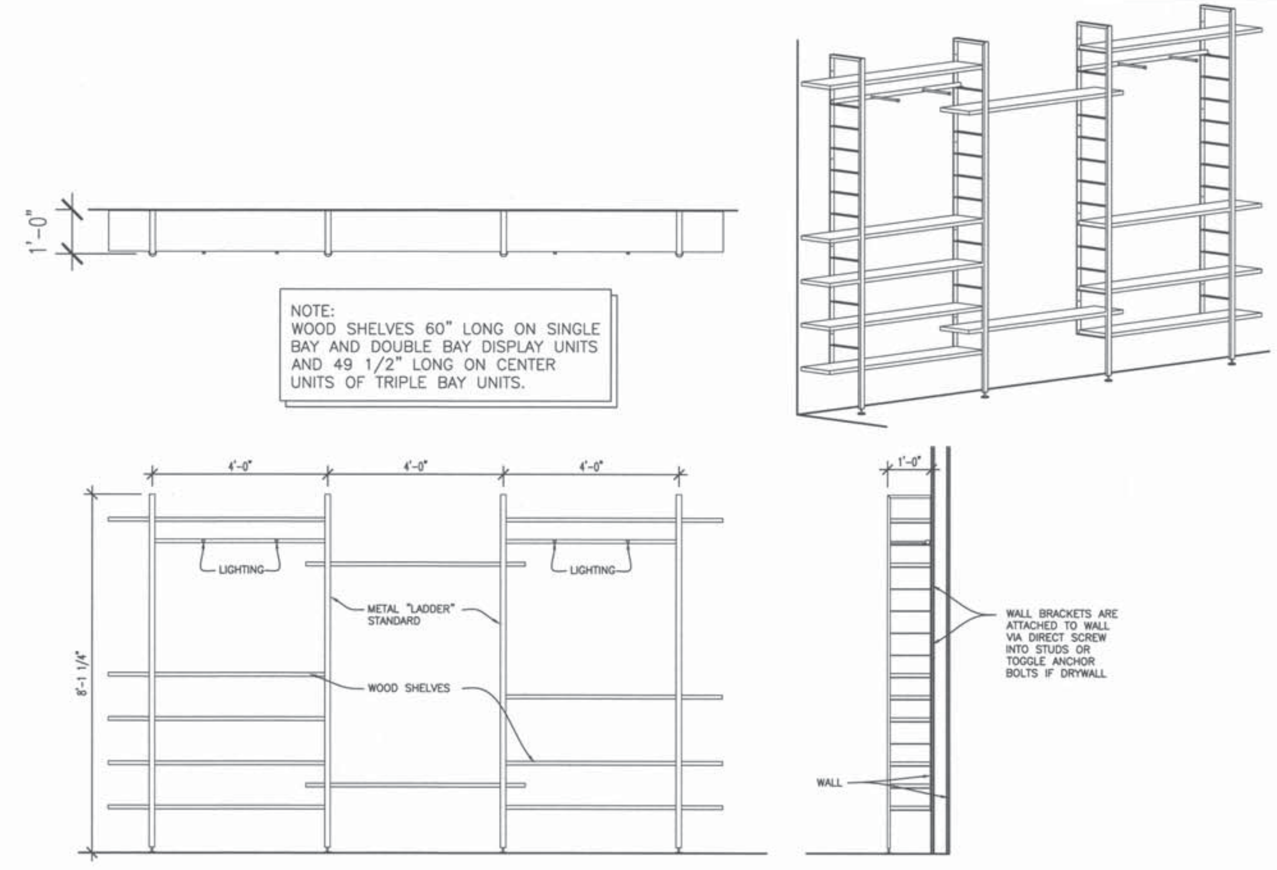

02 DISPLAY SHELVES
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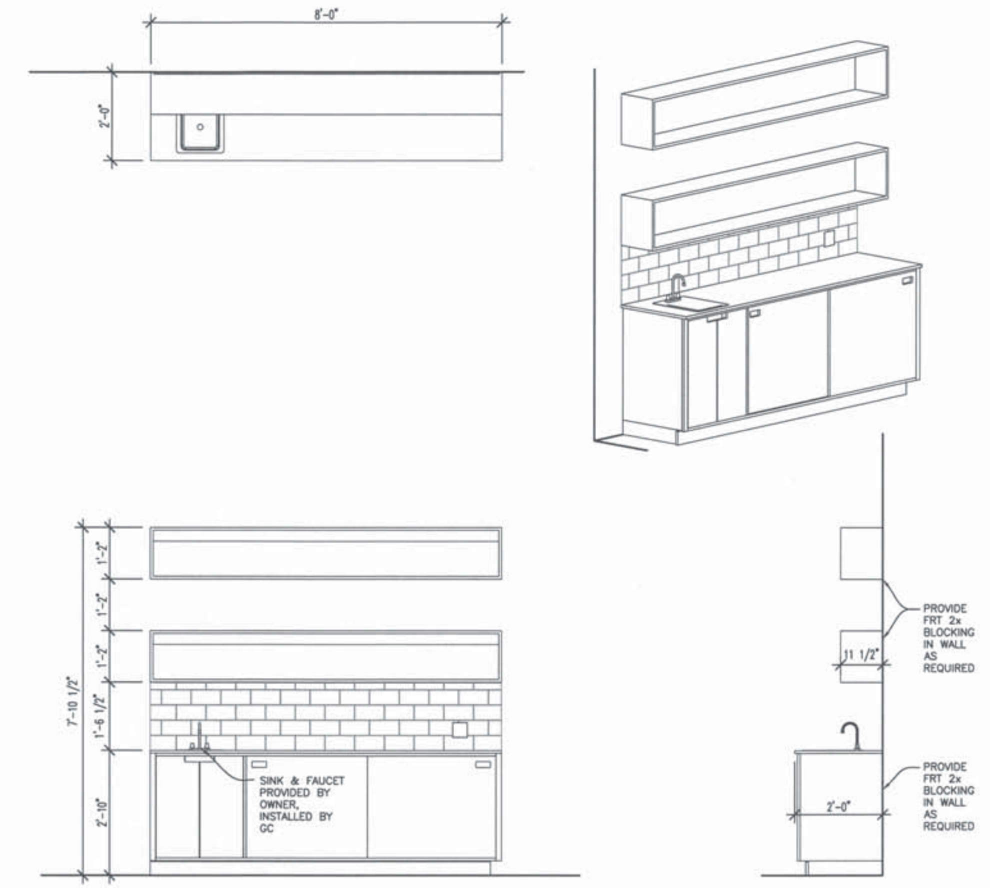

18 DISPENSARY
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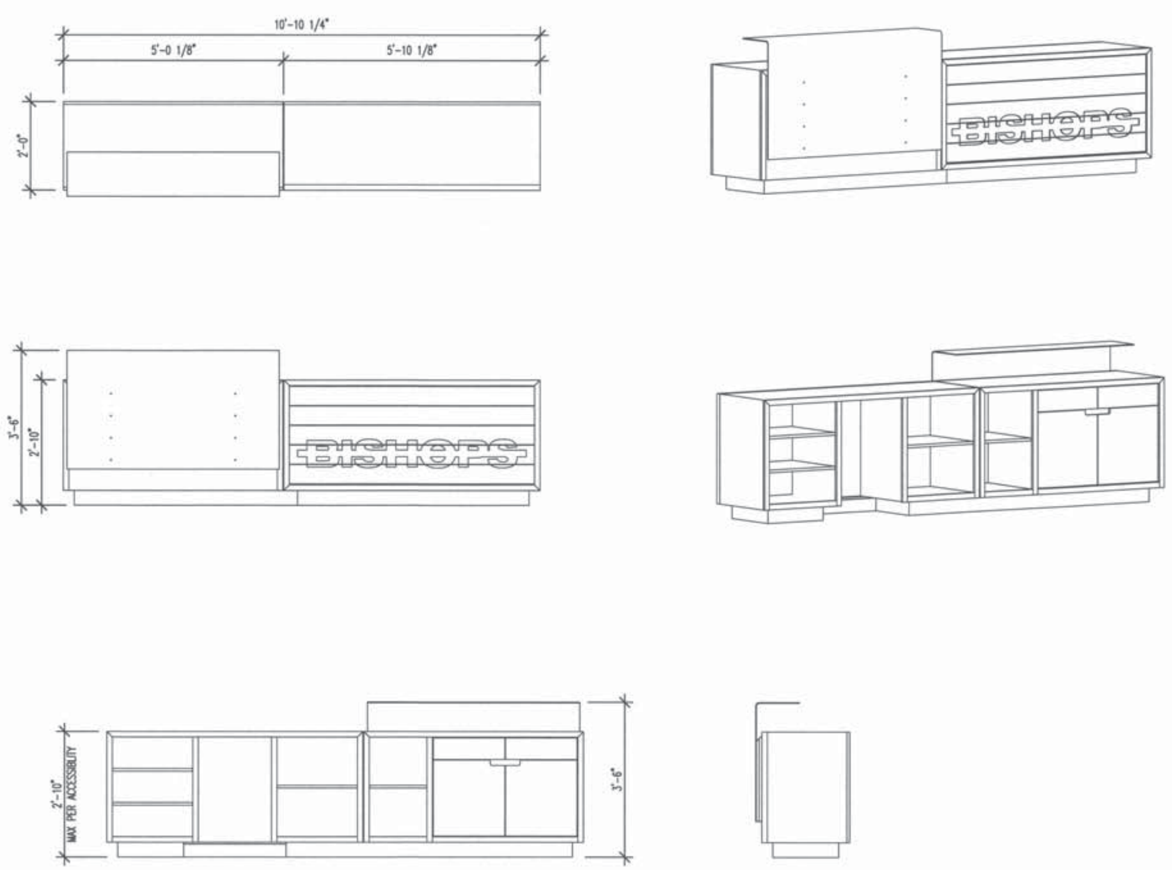

04 CASH WRAP - S SHAPE
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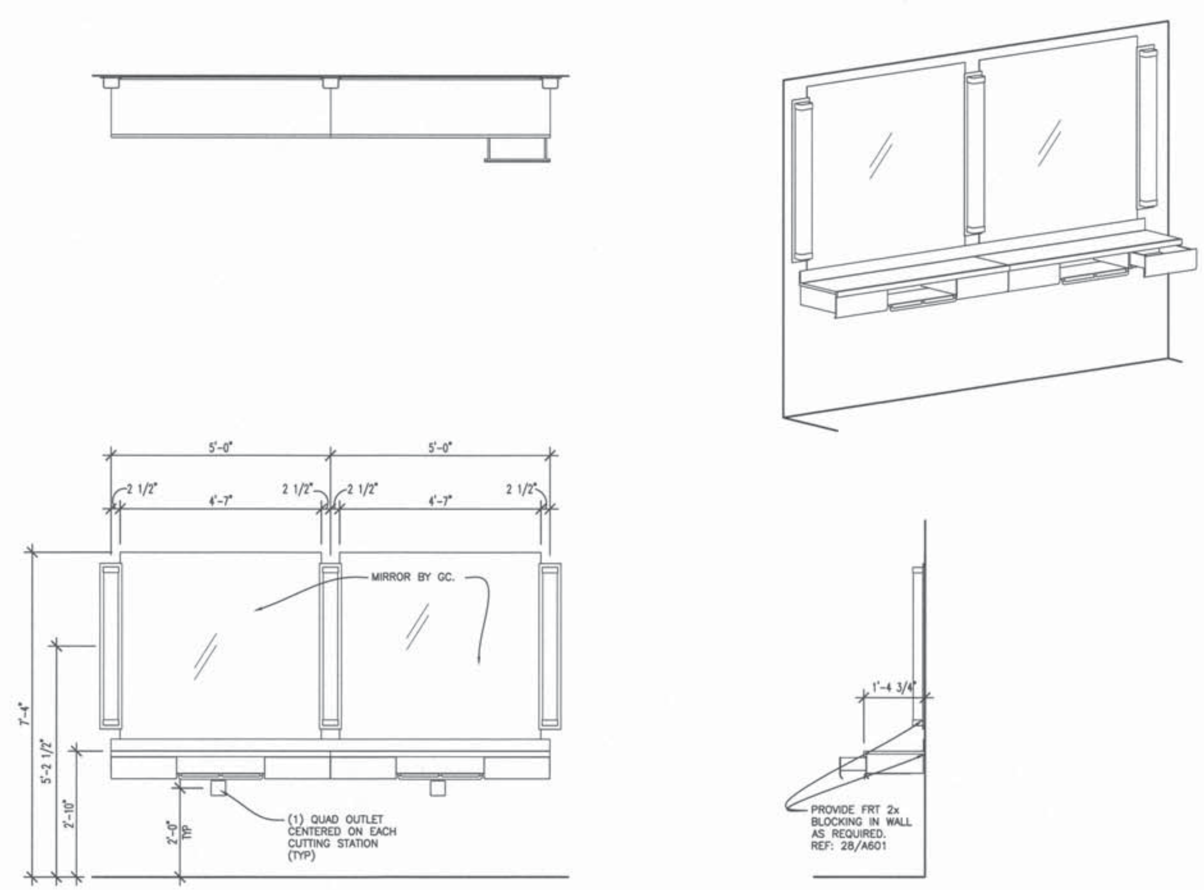

20 CUTTING STATION - 2 UNITS
SCALE: 1/2"=1'-0"

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ELECTRICAL SPECIFICATIONS

PROTOTYPICAL "NO SURPRISE" MEP BID NOTE:
EACH SET OF DRAWINGS IS INDIVIDUALLY ASSEMBLED AND AN ATTEMPT IS MADE TO INCLUDE LEASE SCOPE IN THE DRAWING SET. HOWEVER, THE CONTRACTOR SHALL VISIT THE SITE TO CONFIRM WHAT IS LISTED AS EXISTING BY LANDLORD, OR SIMILAR IS ACTUALLY THERE, AND IF IT IS NOT, THE CONTRACTOR SHALL PROVIDE ITEMIZED BID TO COMPLETE SUCH GAP WORK TO ENSURE ALL WORK THAT WILL BE REQUIRED BY CONTRACTOR IS INCLUDED IN THE CONTRACTOR'S SCOPE. IF THE CONTRACTOR PROVIDES A BULK BID OR SINGLE PRICE BID, IT WILL INCLUDE EVERYTHING REQUIRED TO BUILD A COMPLETE STORE, INCLUDING ANY WORK "BY OTHERS" THAT IS NOT PRESENT.

16010 WORK INCLUDED:

1.1 CONTRACTOR SHALL PROVIDE THE FOLLOWING;
- a. LABOR
- b. SUPPLIES
- c. MATERIALS
- d. SHOP DRAWINGS
- e. PERMITS AND INSPECTION FEES
- f. CERTIFICATION OF FINAL INSPECTION AND APPROVAL
- g. ONE YEAR GUARANTEE

1.2 CONTRACTOR SHALL PERFORM THE FOLLOWING;
- a. INSTALLATION OF ALL ELECTRICAL EQUIPMENT.
- b. COORDINATE WITH OTHER TRADES OF ELECTRICAL EQUIPMENT INSTALLATION.
- c. MATERIAL PROTECTION DURING CONSTRUCTION.
- d. TEST OF ENTIRE SYSTEM IN PRESENCE OF OWNER OR HIS REPRESENTATIVE AND CORRECT ANY DEFICIENCIES DISCOVERED.
- e. COORDINATION OF ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY.
- f. COORDINATION OF TELEPHONE SERVICE WITH LOCAL TELEPHONE COMPANY.

1.3 GOVERNING CODES SHALL BE THE FOLLOWING;
- a. LOCAL MUNICIPALITY ELECTRICAL CODE.
- b. PER LATEST NATIONAL ELECTRICAL CODE (NEC)
- c. UTILITY COMPANY REGULATIONS
- d. AMERICANS WITH DISABILITY ACT
- e. CURRENT APPLICABLE BUILDING CODES
- f. LOCAL BUILDING CODES AND ORDINANCES
- g. THE NATIONAL MANUFACTURER'S ASSOCIATION STANDARDS (NEMA)
- h. UNDERWRITER LABORATORIES INCORPORATED STANDARD(S)
- I. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
- j. THE MANUFACTURER'S RECOMMENDATION

1.4 MATERIAL WILL BE;
- a. NEW
- b. UL LISTED

16110 RACEWAYS

1.1 USE AND TYPES
- a. SERVICE ENTRANCE – RIGID STEEL
- b. FEEDERS – RIGID STEEL EXCEPT ABOVE 8'-0" AND INDOOR THEN EMT
- c. BRANCH CIRCUIT, TELEPHONE OR COMMUNICATIONS – EMT
- d. IN EARTH OR CONCRETE – SCHEDULE 40 PVC
- e. RECESSED LIGHTING FIXTURES – FLEXIBLE STEEL CONDUIT (SHORT BUT MAXIMUM 72")
- f. OUTDOOR FINAL CONNECTION TO EQUIPMENT OR IN WET LOCATIONS – LIQUID TIGHT FLEXIBLE STEEL CONDUIT (MAXIMUM 36")
- g. ALL RACEWAYS, UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, SHALL BE CONCEALED IN WALLS, CEILING OR FLOORS.
- h. PAINT ALL EXPOSED RACEWAYS COLOR AS DIRECTED BY ARCHITECT.

1.2 CONDUIT BUSHING,
- a. PROVIDE INSULATED CONDUIT BUSHING AT EACH END OF EVERY CONDUIT RUN.

16120 WIRES AND CABLES 600 VOLTS

1.1 COLOR CODING

	208Y/120V	480Y/277V
PHASE A	BLACK	BROWN
PHASE B	BLUE	YELLOW
PHASE C	RED	ORANGE
NEUTRAL	WHITE	WHITE
GROUND	GREEN	GREEN

1.2 INSULATED, THHN, THWN, XHHW 75 DEGREE C (THWN OR BETTER, WET-RATED FOR BELOW GRADE).

1.3 PROVIDE COPPER WIRING UNLESS ALUMINUM IS SPECIFICALLY SOWN ON THE DRAWINGS. WHEN ALUMINUM CONDUCTORS ARE UTILIZED – PROVIDE COMPRESSION LUG FITTINGS.

1.4 FIXTURE WIRE, 600 VOLTS, 200 DEGREE C. #14 AWG MINIMUM STRANDED, TINNED COPPER WITH SILICONE RUBBER INSULATION AND AN OVERALL JACKET OF GLASS BRAID, AND RATED AS NEC TYPE 'SF-2'

16130 BOXES

1.1 ATTACHED SECURELY TO BUILDING CONSTRUCTION OR SUPPORT FROM SAME

1.2 MASONRY BOXES SHALL BE RACO OR STEEL CITY

1.3 EXPOSED BOXES SHALL BE CAST TYPE SIMILAR TO CROUSE HINDS TYPE FS

1.4 ALL OTHERS SHALL BE STAMPED STEEL

16140 WIRING DEVICES

1.1 RECEPTACLES
- a. DUPLEX – 15 AMPS, 125V. AC GROUNDED UNO
- b. SINGLE – 15 AMPS, 125V. AC GROUNDED UNO
- c. COORDINATE COLOR OF DEVICE WITH ARCHITECT, ALSO SEE NOTES ON E1.0
- d. COORDINATE FINISH AND COLOR OF COVER PLATE WITH ARCHITECT, ALSO SEE NOTES ON E1.0

1.2 WALL SWITCHES
- a. SINGLE POLE – 20 AMPS, SINGLE THROW, QUIET TYPE, GROUNDED
- b. COORDINATE COLOR OF DEVICE WITH ARCHITECT, ALSO SEE NOTES ON E1.0
- c. COORDINATE FINISH AND COLOR OF COVER PLATE WITH ARCHITECT, ALSO SEE NOTES ON E1.0

1.3 TIME CLOCK
- a. FURNISH AND INSTALL A TWENTY FOUR (24), SEVEN (7) DAY TIME CLOCK INCLUDING ALL INTEGRAL WIRING AND LOAD BALANCING (PANEL) FOR CONTROLLING THE STOREFRONT SIGN AND SHOW WINDOW LIGHTING, WHETHER SUCH WORK IS OR IS NOT SHOWN ON PLANS OR SPECIFICATIONS

16170 PANEL BOARDS

1.1 PANEL BOARDS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING;
- a. THREE PHASE, 4 WIRE, COPPER BUSING, NEMA 1 ENCLOSURE FOR INDOOR, NEMA 3R FOR OUTDOOR.
- b. GROUND BUS WITH SET SCREW CONNECTIONS
- c. SOLID NEUTRAL, 100% RATED WITH SET SCREW CONNECTION
- d. SWITCH RATED BOLT-ON BREAKERS
- e. TYPE WRITTEN DIRECTORY
- f. PLAQUE, BLACK WITH 1" HIGH WHITE LETTERS TO INDICATE PANEL NAME
- g. SQUARE D, GENERAL ELECTRIC OR SIEMENS

16190 GROUNDING

1.1 FEEDERS AND BRANCH CIRCUITS
- a. PROVIDE A GREEN INSULATED GROUND CONDUCTOR, SIZED PER THE NEC IN EACH RACEWAY

16200 LIGHTING FIXTURES

1.1 COORDINATE FIXTURE TRIMS WITH CEILING IN/ON WHICH IT IS BEING INSULATED.

1.2 MATCH VOLTAGE OF FIXTURE TO CIRCUIT TO CIRCUIT TO WHICH FIXTURE IS SHOWN CONNECTED

1.3 PROVIDE LOW TEMPERATURE HIGH EFFICIENCY ELECTRONIC BALLASTS IN FLUORESCENT FIXTURES

1.4 PROVIDE THERMAL OVERLOAD PROTECTION IN BOTH FLUORESCENT AND INCANDESCENT FIXTURES

1.5 NARRATIVE DESCRIPTION IN LIGHTING FIXTURE SCHEDULE TAKES PRECEDENCE OVER CATALOG NUMBER

1.6 PROVIDE INTEGRAL DISCONNECTING MEANS FOR ALL FLUORESCENT FIXTURES PER THE NEC

16210 EXISTING CONDITION

1.1 VISIT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS IN AND AROUND THE BUILDINGS

16220 TELEPHONE SERVICE

1.1 SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, 600 OR 250 VOLT, WITH NUMBER OF POLES REQUIRED. FUSED SAFETY SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK MECHANISM, VISIBLE BLADES WITH REJECTION TYPE FUSE CLIPS AND NEMA CLASS "LPJ" FUSES, THE SWITCHES SHALL BE NEMA 3R FOR OUTDOOR. ALL SWITCHES SHALL BE LOCKABLE.

PLUMBING SPECIFICATIONS

SECTION 15-A – PLUMBING

15A-01 GENERAL:

A. ALL PLUMBING WORK SHALL CONFORM TO THE LANDLORD'S CRITERIA, THE STATE, COUNTY, CITY, LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. INCORPORATE ALL REQUIREMENTS WITH THIS WORK, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT. ADVISE ARCHITECT IF REQUIREMENTS ARE CONTRARY TO THESE PLANS. IT IS INTENDED THAT THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

B. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS AND FEES REQUIRED OR RELATED TO HIS WORK.

C. CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING WATER SUPPLY AND DRAIN LINES AND MAKE PROPER CONNECTION THERETO, INCLUDING VENTS.

D. ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY ALL DIMENSIONS AT THE SITE.

E. ALL VALVES, CLEANOUTS, ETC., SHALL BE SO LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIAL.

F. ALL PLUMBING EQUIPMENT AND WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY LANDLORD AND TENANT.

15A-02 MATERIALS

A. REFER TO PLANS FOR SCHEDULES OF EQUIPMENT AND FIXTURES. AMERICAN STANDARD, KOHLER AND CRANE ARE CONSIDERED ACCEPTABLE AS EQUALS. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. SANITARY PIPING:
1. WHERE NOT OTHERWISE SPECIFIED THROUGHOUT THE DRAWING SET, WASTE, DRAIN AND VENT PIPING SHALL BE PER LOCAL CODE AND AUTHORITY HAVING JURISDICTION. VENT PIPING ABOVE FLOOR 2" OR SMALLER MAY BE GALVANIZED STEEL.
2. PROVIDE LINE-ITEM BID TO UTILIZE PVC, OBTAIN APPROVAL FROM INSPECTOR PRIOR TO INSTALLATION THAT PVC IS ALLOWED FOR THE SPECIFIC HVAC LAYOUT FOR THIS PROJECT.
3. INSULATE ALL HORIZONTAL RUNS OF PIPING LOCATED IN CEILING SPACES OF TENANTS IN SPACES BELOW WHEN APPLICABLE. INSULATION TO BE AS SPECIFIED FOR WATER PIPING.
4. CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBE WITH 95-5 TIN-ANTIMONY SOLDERED JOINTS AND WROUGHT COPPER FITTINGS WITH DIELECTRIC SEPARATION BETWEEN DISSIMILAR METALS. CONDENSATE PIPING BELOW ROOF DECK MAY BE PVC. PROVIDE SHARKBITE TRANSITION FROM PVC TO COPPER.
5. ANY WASTE PIPING EXPOSED IN PARKING AREAS SHALL BE PROTECTED FROM MECHANICAL DAMAGE AND SHALL BE PROVIDED WITH FREEZE PROTECTION (HEAT TAPE & INSULATION) WHERE SUBJECT TO POSSIBLE FREEZING CONDITIONS.

C. POTABLE WATER PIPING
1. WATER PIPING IN CEILING SPACE AND WITHIN WALLS MAY BE TYPE 'L' COPPER OR PEX, ISNTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHARK-BITE TRANSITIONS, OR APPROVED EQUALS.
2. BELOW GRADE: TYPE "K", ANNEALED TEMPERED COPPER TUBE FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL JOINTS.
3. WHERE APPLICABLE, TRANSITIONS BETWEEN COPPER AND PLASTIC PIPE SHALL BE MADE BY SHARKBITE OR SIMILAR TRANSITIONS, RATED FOR USE WITH SUCH MATERIALS AS ARE BEING USED.

D. PIPING OF DISSIMILAR METALS MUST BE DI-ELECTRICALLY SEPARATED.

E. INSULATE ALL HOT WATER, COLD WATER AND CONDENSATE PIPING WITH 1" THICK (K=0.23 @ 75°F) PIPE INSULATION WITH AN ALL SERVICE JACKET TO MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS. OWENS-CORNING OR EQUAL.

F. INSULATE THE TRAP, SANITARY AND SUPPLY PIPES UNDER LAVATORY WITH 1/2" ARMSTRONG "ARMAFLEX" PIPING INSULATION OR TRUEBRO MODEL 102W "HANDI LAV GUARD" INSULATION KIT.

G. INSTALL AIR CHAMBER SHOCK ABSORBERS IN BOTH HOT AND COLD LINES OF PIPING SYSTEM TO PREVENT NOISE AND DAMAGE DUE TO WATER HAMMER. J.R. SMITH 5000 SERIES ALL STAINLESS STEEL "HYDROTROLS" OR EQUAL, INSTALLED IN AN UPRIGHT POSITION.

H. ALL BRANCH PIPING SYSTEMS SHALL HAVE ACCESSIBLE SERVICE VALVE. PROVIDE SHUT OFF VALVES IN THE SUPPLY PIPING TO EVERY FIXTURE. PROVIDE ACCESS DOORS WHERE NECESSARY.

I. INSTALL ALL NECESSARY PIPE HANGERS, SADDLES AND CARRIERS TO PROPERLY SUPPORT ALL PIPING AND FIXTURES. HANGERS SHALL SUIT TYPE OF PIPING AND SEISMIC BRACING WHERE REQUIRED BY CODES.

J. STERILIZE WATER SYSTEM IN ACCORDANCE WITH LOCAL CODES.

K. CLEAN-OUTS AND FLOOR DRAINS SHALL BE INSTALLED PER LOCAL CODES.

L. ESCUTCHEONS SHALL BE CHROME PLATED, SIZE AS REQUIRED AND PLACE AT ALL PIPE PENETRATIONS AT WALL, FLOORS AND CEILINGS IN FINISHED AREAS.

M. LEAKAGE TESTS SHALL BE PER LOCAL CODES.

N. FLASHING SHALL BE SEALED WATERTIGHT AND PERFORMED IN ACCORDANCE TO THE LANDLORD'S CRITERIA. USE LANDLORD APPROVED ROOFING CONTRACTOR WHERE APPLICABLE.

O. NOT USED.

P. GAS PIPING
1. PROVIDE A COMPLETE GAS PIPING SYSTEM IF APPLICABLE. REFER TO PLANS TO DETERMINE IF A GAS SYSTEM IS REQUIRED.
2. GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-120, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2 1/2" AND LARGER.
3. PROVIDE A GAS COCK, DIRT LEG, AND UNION CONNECTION TO EACH PIECE OF EQUIPMENT.
4. PITCH PIPING AT A UNIFORM GRADE OF 1/4" IN 15 FEET UPWARD IN DIRECTION OF FLOOR. SUPPORT PIPING EVERY 5 FEET. SUPPORT AS REQUIRED BY LANDLORD CRITERIA, AS DETAILED ON DRAWINGS, OR BY STANDARD INDUSTRY PRACTICE, WHICHEVER IS MORE STRINGENT.
5. GAS PIPING EXPOSED ON ROOF MUST BE PAINTED WITH RUST-INHIBITING PAINT.
6. GAS PIPING INSTALLED IN RETURN AIR PLENUMS SHALL BE SLEEVED AND VENTED OR WELDED IN ACCORDANCE WITH THE LOCAL GAS COMPANY, LOCAL CODE AND APPLICABLE NFPA 54 CODES.
7. TESTING AND PURGING OF GAS PIPING SHALL BE DONE PER THE REQUIREMENTS OF THE LOCAL GAS COMPANY, LOCAL CODES AND APPLICABLE NFPA 54 CODES.
8. CONTACT AND COORDINATION GAS SERVICE AND METER REQUIREMENTS WITH THE LOCAL GAS COMPANY AND THE MALL'S OPERATIONS MANAGER PRIOR TO BID. INCLUDE INSTALLATION OF GAS METER COSTS IN BID.

MECHANICAL SPECIFICATIONS

SECTION 15-C – HEATING, VENTILATION, AIR CONDITIONING

15C-01 GENERAL:

A. ALL WORK SHALL CONFORM TO THE LANDLORD'S CRITERIA, THE STATE, COUNTY, CITY CODES AND ORDINANCES, SAFETY AND HEALTH CODES NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. INCORPORATE ALL REQUIREMENTS INTO THIS WORK, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT. ADVISE ARCHITECT IF REQUIREMENTS CONTRADICT THESE PLANS. IT IS INTENDED THAT THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

B. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.

C. ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY ALL DIMENSIONS AT THE SITE.

D. ALL VALVES, DAMPERS, ETC., SHALL BE SO LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS.

E. ALL EQUIPMENT AND WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY LANDLORD AND TENANT.

F. LABEL ALL RTUS WITH RTU# AND TENANT'S NAME.

15C-02 MATERIALS:

A. REFER TO PLANS FOR SCHEDULES OF EQUIPMENT. ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT MUST BE TRAPPED IN ACCORDANCE WITH MANUFACTURERS DATA.

B. DUCTWORK:
1. BASE BID SHALL BE FOR DOUBLE-WALL INSULATED ROUND SPIRAL SUPPLY DUCTWORK.
2. BASE BID SHALL BE FOR UNINSULATED SINGLE-WALL METAL DUCT WORK FOR EXHAUST AND RETURN DUCTWORK.
3. FABRICATE AND INSTALL RECTANGULAR AND ROUND DUCTWORK IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" OF THE LATEST EDITION.
4. NOT USED.
5. INSTALL RIGID ROUND AND RECTANGULAR WITH SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS. PROVIDE SWAY AND SEISMIC BRACING AS REQUIRED BY STATE AND LOCAL CODES OR BY LANDLORD.
6. ALL JOINTS AND SEAMS SHALL BE SEALED. TOTAL LEAKAGE SHALL NOT EXCEED 5% FOR THE SYSTEM.
7. ALL DUCTWORK SHALL BE INSTALLED WITH INSIDE CLEAR DIMENSIONS AS NOTED ON DRAWINGS. WHERE DUCTWORK SIZE IN LARGER THAN CONNECTED DEVICE SMOOTH DUCT TRANSITIONS ARE TO TAKE PLACE JUST PRIOR TO DEVICE CONNECTIONS.

C. FLEXIBLE COLLARS AT EQUIPMENT SHALL BE PROVIDED IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT AND DUCTS OR CASINGS. FLEXIBLE CONNECTIONS SHALL CONSTRUCTED OF NEOPRENE-COATED FLAMEPROOF FABRIC. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR MOVEMENT AND PREVENT THE TRANSMISSION OF VIBRATION.

D. FLEXIBLE AIR DUCT AT AIR DEVICES SHALL BE 1" INSULATED CLASS 1 AND RATED FOR THE OPERATING PRESSURE OF THE SYSTEM. DUCT CONSTRUCTION MATERIAL MUST ADHERE TO LOCAL CODES AND LANDLORD'S REQUIREMENTS, AND SHALL BE FULLY CONCEALED FROM VIEW WITH RUNS NO MORE THAN 5'-0".

E. PROVIDE MANUAL LOCKING QUADRANT VOLUME CONTROL DAMPERS WITH HANDLE OPERATORS IN EACH BRANCH DUCT AND AS SHOWN ON PLANS TO FACILITATE AIR BALANCING. ALL RECTANGULAR DAMPERS IN OUTSIDE AIR, RELIEF AIR, EXHAUST OR RETURN AIR DUCTS ARE TO BE OF OPPOSED BLADE TYPE.

F. PROVIDE PRIMARY FIRE DAMPERS WHERE INDICATED OR REQUIRED BY CODES. FIRE DAMPERS SHALL BE UL LABELED. FIRE DAMPERS SHALL HAVE THE BLADES OUT OF THE AIRSTREAM AND A 165°F FUSIBLE LINK, TYPE B, AS MINIMUM.

G. DUCTWORK INSULATION
1. INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A.
2. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. ALL SUPPLY AND RETURN AIR RECTANGULAR DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK, 1 1/2" LB. DENSITY LINER (C=0.28 @ 75°F.). LINER IS TO HAVE A COATED SURFACE EXPOSED TO AIRSTREAM TO PREVENT EROSION. APPLY ADHESIVES AND MECHANICAL FASTENERS AS RECOMMENDED BY SMACNA AND THE MANUFACTURER TO PREVENT LINER SEPARATION FROM THE DUCT. ALL TRANSVERSE EDGES TO BE COATED WITH ADHESIVE.
3. ALL ROUND AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH A MINIMUM OF 1 1/2" THICK, #1 DENSITY (R=5.6) DUCT WRAP WITH VAPOR BARRIER. VAPOR BARRIER IS TO BE MAINTAINED THROUGHOUT DUCT SYSTEM. ALL JOINTS MUST BE TAPED TO THAT NO INSULATION FIBER IS VISIBLE. EXTEND DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR PENETRATIONS.
4. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOTE MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM C 411, OR AS REQUIRED BY LOCAL CODES.

H. TESTING, ADJUSTING AND BALANCING:
1. TESTING, ADJUSTING AND BALANCING OF ALL WORK SHALL BE MADE BY AN INDEPENDENT CONTRACTOR WHO IS CURRENTLY LICENSED ASSOCIATED AIR BALANCING COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCE BUREAU (NEBB) BALANCING CONTRACTOR. ALL BALANCING WORK MUST BE COMPLETE AND DONE IN ACCORDANCE WITH THE MOST RECENT STANDARDS OF THEIR SOCIETY. PAYMENT OF ALL COSTS FOR TESTING AND BALANCING SHALL BE INCLUDED IN THE BID. TESTING AND BALANCING REPORT MUST INCLUDE THE OUTSIDE AIR CFM'S AND THE EXHAUST CFM'S.
2. BALANCE AIR AND WATER QUANTITIES TO WITHIN +/- 5% OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS, PULLEYS OR THE ADDITION OF DAMPERS REQUIRED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PERFORMED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST TO THE TENANT.
3. FOUR COPIES OF THE BALANCE REPORT SHALL BE SUBMITTED TO TENANT AND LANDLORD FOR APPROVAL.

I. RECORD DRAWINGS:
1. AT THE END OF THE PROJECT THIS CONTRACTOR SHALL SUBMIT 4 COPIES OF RECORD DRAWINGS SHOWING EXACT LOCATIONS OF UNITS, DUCTS, DIFFUSERS, ETC.

J. ECOMONIZER:
1. GENERALLY, AN ECONOMIZER IS REQUIRED BY THE LATEST VERSIONS OF IECC IN ALL JURISDICTIONS EXCEPT SOUTH FLORIDA (CLIMATE ZONE 1). THE MECHANICAL CONTRACTOR SHALL ORDER ALL NEW ROOF-TOP HVAC UNITS WITH ECONOMIZERS, THE MECHANICAL CONTRACTOR SHALL ORDER ALL SPLIT SYSTEMS, FAN COIL UNITS, WATER SOURCE HEAT PUMPS, OR OTHER MECHANICAL UNITS THAT ARE TO BE OPERATED MORE THAN 20 HOURS PER WEEK WITH ECONOMIZERS, FACTORY INSTALLED WHERE POSSIBLE OR WITH CAPABILITY FOR ECONOMIZER WHERE CONTROLS ARE TO BE FIELD INSTALLED, AND TO INSTALL ALL COMPONENTS – SUCH AS OUTSIDE AIR DUCTS AND DUAL ENTHALPY SENSORS, CONTROLS, ETC. ON SPLIT SYSTEMS A NECESSARY TO MEET LOCAL CODE. THE CONTRACTOR SHALL VERIFY WITH THE LOCAL INSPECTOR WHAT VERSION OF ENERGY CODE IS ENFORCED IN THE JURISDICTION OF THE PROJECT AND FOR UNITS OTHER THAN PACKAGED ROOFTOP UNITS MAY OMIT THE ECONOMIZER PACKAGE WHERE THE AHJ DOES NOT REQUIRE IT.

ROOFTOP UNIT SEQUENCE OF OPERATION – CO2 SENSOR & ECONOMIZER

FAN CONTROL:
THE SUPPLY FAN IS TO RUN CONTINUOUSLY DURING THE OCCUPIED MODE AND CYCLE ON AND OFF DURING THE UNOCCUPIED MODE BASED ON A CALL FOR HEATING OR COOLING. THE UNOCCUPIED SET POINT FOR COOLING WILL BE 85° FAHRENHEIT AND 60° FAHRENHEIT FOR HEATING.

THERMOSTAT:
THE ADJUSTABLE ROOM THERMOSTAT WITH AUTOMATIC HEATING/COOLING CHANGEOVER SHALL CONTROL THE SPACE TEMPERATURE BASED ON SET POINT. THE CONTROL OF THE OCCUPIED/UNOCCUPIED SETBACK MODE SHALL BE THROUGH THE LIGHT SENSING FUNCTION OF THE THERMOSTAT. PROVIDE 24/7 CONTROLLABLE TYPE. THERMOSTATS SHALL HAVE AUTOMATIC CHANGEOVER, 5 DEGREE DEADBAND (TEMPERATURE SET-POINT OVERLAP RESTRICTIONS) AND SHALL ALLOW AUTOMATIC RESTART AND TEMPORARY OPERATION AS REQUIRED FOR MAINTENANCE, PER ENERGY CODE.

SAFETIES:
THE UNIT SHALL BE TOTALLY DISABLED WHEN THE DUCT MOUNTED SMOKE DETECTOR IS ACTIVATED. PROVIDE REMOTE TEST STATION/ALARM WHEN REQUIRED BY CODE. PROVIDE LANDLORD REQUIRED SEQUENCE OR INTERFACE AS REQUIRED.

COOLING CONTROL:
UPON A CALL FOR COOLING, THE FIRST STAGE OF COOLING WILL BE ENABLED AND WILL OPERATE UNTIL THE SPACE TEMPERATURE IS SATISFIED. IF THE SPACE TEMPERATURE CONTINUES TO INCREASE THEN THE SECOND STAGE OF COOLING WILL BE ENABLED (IF APPLICABLE.)

HEATING CONTROL:
UPON A CALL FOR HEATING, THE FIRST STAGE OF HEATING WILL BE ENABLED AND WILL OPERATE UNTIL THE SPACE TEMPERATURE IS SATISFIED. IF THE SPACE TEMPERATURE CONTINUES TO DECREASE THEN THE SECOND STAGE OF HEATING WILL BE ENABLED (IF APPLICABLE.)

VENTILATION/ECONOMIZER CONTROL:
(WHERE REQUIRED BY A.H.J, OR WHERE CALLED FOR ELSEWHERE IN THE DRAWING SET):
THE OUTSIDE AIR DAMPER SHALL BE OPEN DURING THE OCCUPIED HEATING AND COOLING MODES FOR CODE REQUIRED MINIMUM OUTSIDE AIR VENTILATION AND SHALL REMAIN CLOSED DURING THE UNOCCUPIED MODE. IN THE OCCUPIED MODE THE CO2 SENSOR SHALL MODULATE THE OUTSIDE AIR DAMPER WHEN THE UNIT OPERATING IN THE MINIMUM OUTSIDE AIR MODE.

THE ECONOMIZER MODE IS ENTHALPY CONTROLLED AND WILL BE OPERATIONAL WHENEVER COOLING IS REQUIRED AND THE OUTSIDE AIR ENTHALPY IS AT OR BELOW THE RETURN AIR ENTHALPY. THE POWER EXHAUST WILL OPERATE WHENEVER THE OUTSIDE AIR DAMPER IS OPEN MORE THAN 60%.

FIRE PROTECTION SYSTEM

1. SPRINKLER SYSTEM TO BE NFPA 13 AND SPRINKLER MONITORED WITH OCCUPANCY NOTIFICATION COMPLYING WITH H.C. AMENDMENTS – 903.4.
2. FIRE SPRINKLER AND FIRE ALARM WORK SHALL BE DONE UNDER A SEPARATE PERMIT (DESIGN/BUILD) BY LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTORS.

16270 FIRE ALARM SYSTEM

1.1 FURNISH AND INSTALL FIRE ALARM POWER BOOSTER TO EXISTING BUILDING FIRE ALARM PANEL AS INDICATED ON DRAWINGS. THE FIRE ALARM SYSTEM NEW DEVICES SHALL BE FORMALLY PLANNED BY A LICENSED FIRE ALARM CONTRACTOR WHO SHALL SUBMIT SIGNED AND SEALED DRAWINGS, IF REQUIRED FOR PERMIT, AND SHALL SUPERVISE AND CERTIFY THE INSTALLATION. FIRE ALARM SYSTEM CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS AND PROVIDE AND INSTALL DUCT SMOKE DETECTORS AS REQUIRED IN THE STANDARD MECHANICAL CODE AND BY THE LOCAL FIRE MARSHALL. DESIGN SHALL COMPLY WITH NFPA 72. PROVIDE VOCE EVACUATION MODULES WITH ALL NECESSARY APPURTENANCES.

1.2 REMOTE ANNUNCIATOR
PROVIDE AN ALPHANUMERIC ANNUNCIATOR WITH INTEGRAL ALPHANUMERIC DISPLAY, SYSTEM CONTROL/TEST SWITCHES, KEY OPERATED ENABLED SWITCH AND BACK BOX. COORDINATE LOCATION WITH AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.

1.3 MANUAL STATIONS
PROVIDE ANALOG ADDRESSABLE MANUAL STATIONS WITH PROTECTIVE COVERS (WITH INTEGRAL HORN AND 9V BATTERY) AS SHOWN ON THE PLANS.

1.4 SYSTEM SMOKE DETECTORS
PROVIDE ANALOG ADDRESSABLE PHOTOELECTRIC SMOKE DETECTORS WITH BASES AS SHOWN.

1.5 DUCT MOUNTED SMOKE DETECTORS
PROVIDE DUCT MOUNTED ANALOG ADDRESSABLE PHOTOELECTRIC SMOKE DETECTORS WITH SAMPLING TUBES AND ADDRESSABLE CONTROL RELAYS AS SHOWN ON THE PLANS AND AS REQUIRED TO COMPLY WITH THE MECHANICAL CODE. WHERE -N-DUCT SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS MORE THEN 10 FEET ABOVE THE FINISHED FLOOR OR N ARRANGEMENT WHERE THE DETECTORS ALARM OR SUPERVISORY INDICATOR IS NOT VISIBLE TO RESPONDING PERSONNEL, THE DETECTOR SHALL BE PROVIDED WITH REMOTE ALARM OR SUPERVISORY INDICATION IN A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. ADDITIONALLY, LABEL REMOTE ALARMS TO INDICATE BOTH THEIR FUNCTION AND THE AIR HANDLING UNITS(S) ASSOCIATED WITH EACH DETECTOR.

1.6 ADDRESSABLE MONITOR MODULES
PROVIDE ADDRESSABLE MONITOR MODULES AS SHOWN ON THE PLANS TO MONITOR SPRINKLER FLOW SWITCHES, SPRINKLER VALVES, SUPERVISORY SWITCHES AND SPRINKLER FIRE PUMP (AS REQUIRED)

1.7 ADDRESSABLE CONTROL MODULES
PROVIDE ADDRESSABLE CONTROL MODULES AS REQUIRED FOR INTERFACE WITH THE ELEVATOR CONTROLS, ELEVATOR POWER CONTROLS AND HVAC CONTROLS (AS REQUIRED)

1.8 ALARM SIGNALS
PROVIDE 15/75-WW SPEAKER/STROBE ALARM SIGNALS AS SHOWN ON THE PLANS FOR ALL PUBLIC AREAS. PROVIDE 15/75-WW STROBE VISUAL ALARM SIGNALS FOR ALL STROBE ONLY LOCATIONS AS SHOWN ON THE PLANS, 110 CANDELA.

1.9 WIRING
WIRING SHALL BE CONCEALED IN CONDUIT. PROVIDE WIRING AND CONDUIT AS DIRECTED BY THE MANUFACTURER'S AUTHORIZED DISTRIBUTOR.

1.10 APPLICABLE CODES AND STANDARDS
ALL EQUIPMENT SHALL BE UL LISTED FOR ITS INTENDED USE.

ALL RACEWAYS AND WIRING SHALL BE INSTALLED IN COMPLIANCE WITH NFPA STANDARD 70 (NATIONAL ELECTRIC CODE)

NFPA STANDS 71 AND 72

NFPA 101 (LIFE SAFETY CODE)

AMERICANS WITH DISABILITIES ACT (ADA)

STANDARD BUILDING CODE (SBC)

APPLICABLE LOCAL AND NATIONAL CODES AND AUTHORITIES HAVING JURISDICTION

1.11 SYSTEM OPERATION
ACTUATION OF ANY FIRE ALARM INITIATING DEVICE SHALL IMMEDIATELY CAUSE THE FOLLOWING ACTIONS TO BE INITIATED
- a. IDENTIFY THE TYPE OF ALARM, SPECIFIC DEVICE AND LOCATION ON THE BACK LIT LCD DISPLAY AT THE BUILDING FIRE ALARM CONTROL PANEL AND AT THE REMOTE ANNUNCIATORS
- b. CAUSE THE SYSTEM ALARM LED TO FLASH AT THE FIRE ALARM CONTROL PANEL
- c. CAUSE ALL SYSTEM HORNS TO SOUND
- d. CAUSE ALL VISUAL ALARMS SIGNALS TO FLASH
- e. ACTIVATE THE DIGITAL COMMUNICATOR TO REPORT THE TYPE OF ALARM AND LOCATION TO THE REMOTE CENTRAL MONITORING STATION. COORDINATE CONNECTIONS WITH OWNER'S REPRESENTATIVE.
- f. ACTIVATE SIGNALS TO THE BUILDING DOOR LOCK CONTROLS TO DEACTIVATE LOCKS
- g. ACTIVATE SIGNALS TO THE HVAC CONTROLS TO INITIATE SHUT DOWN OR REROUTING OF AIR HANDLING SYSTEMS

1.12 ACTIVATION OF ANY SPRINKLER VALVE SUPERVISORY SWITCH SHALL AUTOMATICALLY
- a. CAUSE THE SYSTEM SUPERVISORY LED TO FLASH AND AN AUDIBLE INDICATOR TO SOUND AT THE CONTROL PANEL AND REMOTE ANNUNCIATOR.
- b. IDENTIFY THE SUPERVISORY CONDITION, SPECIFIC DEVICE AND LOCATION ON THE BACK LIT LCD DISPLAY AT THE SYSTEM CONTROL PANEL AND THE REMOTE ANNUNCIATOR.

ADDITIONAL FIRE PROTECTION NOTES:

CUPERTINO, CA NOTE

THIS BUILDING IS SPRINKLERED AND HAS A BUILDING FIRE ALARM SYSTEM. FIRE PROTECTION DRAWINGS TO MODIFY EXISTING SYSTEMS WILL BE SUBMITTED SEPARATELY FOR SEPARATE PERMIT BY LICENSED FIRE SPRINKLER/FIRE ALARM CONTRACTOR.

DRAWING INFORMATION IS DISTRIBUTED THROUGHOUT THE DOCUMENT SET. CONTRACTORS SHALL THOROUGHLY REVIEW ALL SHEETS AND SHALL NOTIFY CONSTRUCTION MANAGER FOR DIRECTION IF DISCREPANCIES ARE FOUND.

REQUIRED CONTRACTORS:
ROOFER – STATEWIDE ROOFING (408) 286-7828
FIRE SPRINKLER – NO REQUIRED SUBCONTRACTOR
FIRE ALARM – BAY ALARM (408) 785-1182
ALL CONTRACTORS SHALL BE PREAPPROVED BY LANDLORD PRIOR TO AWARDING CONTRACTS. ANY AWARDED CONTRACTS SHALL BE CONSIDERED NULL AND VOID, UNLESS THE LANDLORD HAS PROVIDED WRITTEN APPROVAL.

GHA

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10/26/17

BISHOPS

BISHOPS – TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
ALL EXISTING CONDITIONS AND
DIMENSIONS–NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

NO	REVISION

PETER A. LEPTUCH
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10/26/17

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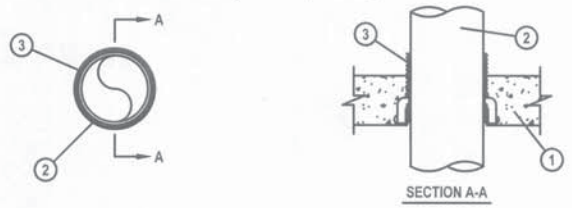
SPECIFICATIONS
DATE OF THIS PRINTING – 10/26/17

FA 1091

System No. F-A-1091

F Rating — 4 Hr
T Rating — 1/2 Hr
L Rating At Ambient — 1 CFM/sq ft (See Item 2)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 2)
W Rating — Class 1 (See Item 4)



SECTION A-A

1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight 100-150 pcf (1600-2400 kg/m3) concrete.

1A. Floor Assembly — (Optional, Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight 100-150 pcf (1600-2400 kg/m3) concrete.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.

2. Through Penetrants — One metallic pipe, conduit or tubing to be installed within the firestop device. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe, conduit or tubing may be used:
A. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
D. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic conduit.
E. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
F. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.
The firestop device and metallic penetrant shall be sized as follows:

++ L Rating applies only to CP 680-P device and only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.) L Rating does not apply to CP 680N devices.

Hilti Firestop Systems

C UL US

FA 1091

System No. F-A-1091
F Rating — 4 Hr
T Rating — 1/2 Hr
L Rating At Ambient — 1 CFM/sq ft (See Item 2)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 2)
W Rating — Class 1 (See Item 4)

3. Firestop Device* — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions. The devices may extend a max of 2 in. (51 mm) above the top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680N-75/2.5", CP 680N-110/4", CP 680N-160/6", CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6"

4. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Nom 2", 3", 4" and 6" water barrier modules used in combination with the CP 680-P 2", CP 680-P 3", CP 680-P 4" and CP 680-P 6" devices, respectively, and supplied by device manufacturer. Module is threaded onto top of device. For W Rating with Water Barrier Module, pipe shall be installed from bottom of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module

4A. Firestop Device* - Top Seal Plug — (Optional, Not Shown) - Alternate to Water Barrier Module (Item 4). Top seal plug for use with CP 680-P 2" device and nom pipe, conduit or tubing size of 2 in. (51 mm) diam. Plug is friction fit into top of firestop device (Item 3) in accordance with the manufacturer's instructions. W Rating applies only to nom 2 in. (51 mm) diam copper pipe/tube in conjunction with 2" CPS Top Seal and CP 680-P 2" device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CPS Top Seal Plug
*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. February 27, 2008

C UL US

Storage Tank Water Heater Sizing Calculator

Developed by the Plan Review Unit of the Environmental Health Services Section

Facility Name:	BISHOPS
Address:	CUPERTINO, CALIFORNIA

EQUIPMENT						**GPH CALCULATED**
Enter the description, and number and size of compartments for each sink below	**Description**	**Number of compartments**	(inches) **Length**	**Width**	**Depth**	**Gallons Per Hour (GPH)**
Largest Sink #1						0
Sink #2						0
Sinks are calculated at 75% capacity					**Total**	0

Enter type of prep sink and number of sink compartments for each sink below	**Type of prep sink (vegetable, meat, seafood)**	**Number of compartments**	**Gallons Per Hour (GPH)**
Prep sink #1			0
Prep sinks are calculated at 5 gallons per compartment		**Total**	0

Enter the quantity of equipment below	**Quantity**	**Gallons Per Hour (GPH)**
Hand sinks	2	10
Shampoo sink	2	10
Mop sink	1	5
Clothes washer	1	6.8
Other Equipment		0

Enter a description and estimated gallon per hour (GPH) usage for other equipment below	**Description**	**Estimated gallons per hour (GPH) usage**	
Other Equipment			0
Other Equipment			0
Hand sinks and mop sinks are calculated at 5 GPH each, showers at 15 GPH each. Hose reels are calculated at 5 GPH, clothes washers at 6.8 GPH, other equipment at the usage entered		**Total**	31.8

Enter the make, model and Final Rinse Usage in gallons per hour (GPH) for dishmachines	**Make**	**Model**	**Final Rinse Usage (GPH)** Found in "Dishmachine Specs" sheet below or on manufacturer's spec sheet	**Gallons Per Hour (GPH)**
Dishmachine #1				0
Enter the quantity of pre-rinse units	**Quantity**			**Gallons Per Hour (GPH)**
Pre-rinse				0
Dishmachines are calculated at 70% of the final rinse usage specified by the manufacturer. Pre-rinses are calculated at 45 GPH			**Total**	0

Recovery Rate Needed (GPH): 32

PLUMBING MATERIALS

A. SANITARY PIPING:
(WHERE NOT OTHERWISE SPECIFIED THROUGHOUT THE DRAWING SET, WASTE, DRAIN AND VENT PIPING SHALL BE PER LOCAL CODE AND AUTHORITY HAVING JURISDICTION.)
1. UNDERSLAB DRAIN PIPING SHALL BE SCHEDULE 40 PVC.
2. VENT PIPING SHALL BE SCHEDULE 40 PVC. VENT PIPING ABOVE FLOOR 2" OR SMALLER MAY BE GALVANIZED STEEL.
3. CONDENSATE PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBE WITH 95-5 TIN-ANTIMONY SOLDERED JOINTS AND WROUGHT COPPER FITTINGS WITH DIELECTRIC SEPARATION BETWEEN DISSIMILAR METALS. CONDENSATE PIPING BELOW ROOF DECK MAY BE PVC. PROVIDE SHARKBITE TRANSITION FROM PVC TO COPPER.
4. INSULATE ALL HORIZONTAL RUNS OF PIPING LOCATED IN CEILING SPACES OF TENANTS IN SPACES BELOW WHEN APPLICABLE. INSULATION TO BE AS SPECIFIED FOR WATER PIPING.
5. PROVIDE LINE-ITEM BID TO UTILIZE PVC, OBTAIN APPROVAL FROM INSPECTOR PRIOR TO INSTALLATION THAT PVC IS ALLOWED FOR THE SPECIFIC HVAC LAYOUT FOR THIS PROJECT.

B. POTABLE WATER PIPING
1. ALL HOT AND COLD WATER SUPPLY PIPING, WHERE ALLOWED BY A.H.J. AND OWNER SHALL BE CPVC OR PEX.
2. WATER PIPING IN CEILING SPACE AND WITHIN WALLS MAY BE TYPE 'L' COPPER OR PEX, ISNTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SHARK-BITE TRANSITIONS, OR APPROVED EQUALS.
3. BELOW GRADE: TYPE "K", ANNEALED TEMPERED COPPER TUBE FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL JOINTS.
4. WHERE APPLICABLE, TRANSITIONS BETWEEN COPPER AND PLASTIC PIPE SHALL BE MADE BY SHARKBITE OR SIMILAR TRANSITIONS, RATED FOR USE WITH SUCH MATERIALS AS ARE BEING USED.
5. ABS PIPE MAY BE USED IN LIEU OF PVC.

C. GAS PIPING
1. GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-120, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER.
2. GAS PIPING EXPOSED ON ROOF MUST BE PAINTED WITH RUST-INHIBITING PAINT.

**THIS MATERIALS LIST REPRESENTS THE MINIMUM SPECIFICATIONS SET FORTH BY THE MEP ENGINEER. CONTACT LANDLORD'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION TO VERIFY IF THERE ARE ANY ADDITIONAL OR MORE STRINGENT REQUIREMENTS BEYOND THESE.

Water Service Calculation - Retail		**8/29/2017**			**Bishops - Cupertino, CA**
F.U. = fixture Units					**2016 California Plumbing Code**
	Quantity	Waste F.U. (per fixture)	Total Waste F.U.	Water Supply F.U. (per fixture)	Total Water Supply F.U.
Water Closet (Flush Valve)	1	6	6	40	40
Water Closet (Flush Tank)	0	6	0	5	0
Urinals	0	3	0	20	0
Lavatory / Handwash Sink	2	2	4	2	4
Shampoo sink	2	2	4	2	4
Mop Sink	1	4	4	2	2
3-comp Sink	0	3	0	4	0
Pot Fill Sink	0	4	0	0	0
Showers	0	2	0	2	0
Pre-rinse Sink	0	4	0	2	0
Hose Bibb	0	0	0	0	0
Floor Drain	1	2	2	0	0
Floor Sink	1	1	1	0	0
Ice Machine	0	2	0	4	0
Dish Washer	0	10	0	10	0
Clothes Washer	1	10	10	10	10
Water Bar/Fountain	1	1	1	2	2
Total Fixture Units		Waste: USE 4" WASTE LINE	32	Supply: FOR FLUSH TANK - USE 1-1/2" DISTRIBUTION LINE FOR FLUSH VALVE - USE 2" DISTRIBUTION LINE	62

Pipe Sizes based on UPC

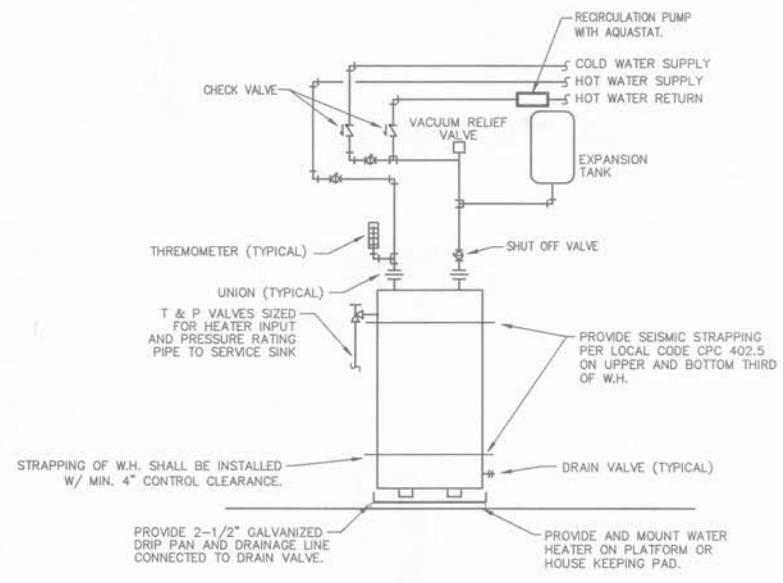
Misc:	1-1/4" trap	0
	1-1/2" trap	0
	2" trap	0
	3" trap	0
	4" trap	0

Sizing Table:

Pipe Size	1.25"	1.5"	2"	3"	4"	6"
Maximum Units (Waste)						
Horizontal	1	2	16	48	256	1380
Vertical	1	1	8	35	216	720

Water Sizing:

CUPERTINO, CA - 2" street service size, 1-1/2" building supply and branches.
2" building main, 1-1/2" valve & distribution branch services: up to 150' run to most remote fixture, 217 wsfu allowed.



01 ELECTRIC WATER HEATER DETAIL
SCALE: NOT TO SCALE

WATER HEATER SCHEDULE (ELECTRIC, TANK-TYPE)

MARK	RECOVERY @55°F RISE	STORAGE GALLONS	LINING	MAXIMUM INPUT FUEL	CFH	HP	VOLTS/PH	KW	DESCRIPTION
W.H.	SEE CALC.	40	GLASS	ELEC.	---	---	120/208V	6	AO SMITH DEL-40, OR EQUAL. TWO 3.0 KW STAGES. 21.75" DIAMETER, 24" DRAIN PAN. 40 STORAGE GALLONS. GLASS LINING. 120/208 VOLTS 3 PHASE. 6 KW.

EXPANSION TANK SCHEDULE

MARK	TANK VOLUME	ACCEPTABLE VOLUME GALLON	HEIGHT	DIAMETER	ASTME CONST.	SERVES WATER HEATER	REMARKS
ET	5	2.3	14"	10"	NO	W.H.	WATTS NO. DETA-12

RECIRCULATION PUMP SCHEDULE

MARK	SERVICE	GPM	TOTAL HEAD FT.	MOTOR HP	ELECTRICAL VOLTS	PHASE	HERTZ	REMARKS
R.P.	36'-203'	2.2	3.9		115			GRUNDFOS UP10-16 BU SERIES. 20A/1P POWER, PROVIDE WITH AQUASTAT AND TIMER.

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REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH M 35700 STATE OF TEXAS MECHANICAL 10/26/17

BISHOPS — TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS--NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH E 19072 STATE OF TEXAS ELECTRICAL 10/24/17

ISSUE

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ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
MEP2.0
ADDITIONAL MEP INFORMATION
DATE OF THIS PRINTING — 10/26/17

KEY NOTES BY SYMBOL '⬡'

1. MAINTAIN 10'-0" BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST SOURCES (PLUMBING VENTS, EXHAUST FANS, COMBUSTION EXHAUST, ETC.), MECHANICAL CONTRACTOR SHALL PROVIDE OFFSETS AS NEEDED TO ENSURE EXHAUST FANS ARE 10'-0" AWAY FROM NEIGHBORING TENANT'S FRESH AIR INTAKES. PROVIDE OFFSETS AND ADJUST/RELOCATE EQUIPMENT AS NEEDED.
2. ROUTE 12" EXHAUST DUCT TO INLINE EXHAUST FAN. THEN FROM FAN TO NEW EXTERIOR LOUVER (MATCH EXISTING LOUVER).
3. 4" DRYER VENT LINE ROUTED AS SHOWN TO EXTERIOR WALL LOUVER AS SHOWN. TERMINATE AT SECTIONED PORTION OF LOUVER. FURROUT WALL IF NECESSARY TO KEEP VENT WITHIN WALL.
4. AHU BY LANDLORD SUSPENDED FROM DECK. REMOTE CONDENSING UNIT TO BE LOCATED IN ABOVE SPACE IN DESIGNATED AREA ON LOWER ROOF. REFER TO SHELL DRAWING SK-M38.17. COORDINATE WITH BUILDING ENGINEER FOR CONDENSING UNIT PLACEMENT. VERIFY IN FIELD REFRIGERANT LINE ROUTING. PROVIDE LINE ITEM BID VALUE FOR LONG LINE SET.
5. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT, HONEYWELL VISION PRO 8000, AND AUTO CHANGEOVER AND RELATED WIRING TO CONTROL EACH UNIT. MOUNT T-STAT AT 48" AFF, SENSOR AT 96" AFF.
6. NEW IN-LINE EXHAUST FAN SUSPENDED FROM DECK.

DRYER VENT CALCULATION

20'-0"	HORIZONTAL LENGTH
15'-0"	VERTICAL LENGTH
17'-0"	45 DEGREE ELBOWS (8.5' EACH)
10'-0"	90 DEGREE ELBOWS (5.0' EACH)
62'-0"	TOTAL DEVELOPED DUCT LENGTH

USE 4" GALVANIZED SHEET METAL DRYER VENT DUCT AND 4" MITERED ELBOWS. PROVIDE A DURABLE PLACARD AT LEAST 4" TALL AND 5" WIDE, AFFIXED PERMANENTLY ON THE WALL, CLOSE TO THE DRYER LOCATION. THE PLACARD SHALL LIST THE ACTUAL LENGTH OF THE INSTALLED DRYER DUCT EXHAUST VENT.

SAMPLE DRYER PLACARD

WARNING

CHECK THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ANY DOMESTIC DRYER THAT WILL BE INSTALLED AT THIS LOCATION. THE INSTALLATION INSTRUCTION SHOULD ALLOW THE DRYER TO BE CONNECTED TO AN EXHAUST DUCT (VENT) THAT IS _____ FEET.

AHU LOCATION, MIXING BOX CONFIGURATIONS (ON SPLIT SYSTEMS), RETURN AIR CONFIGURATIONS, ECONOMIZER CONFIGURATIONS, ETC. WILL VARY DEPENDING ON FIELD CONDITIONS, JOISTS, BEAMS, SPRINKLER PIPING, ETC... IT IS EXPECTED THAT THE MECHANICAL CONTRACTOR WILL MAKE MINOR ADJUSTMENTS TO BEST SUIT FIELD CONDITIONS.

AIR DEVICE SCHEDULE

SYMBOL	TAG	MANUF.	CATALOG #	FIXTURE DESCRIPTION	NECK SIZE	REMARKS
⊠	A	TITUS	TMS	24x24 SUPPLY GRILLE/ 12x12 SUPPLY GRILLE	SEE PLAN	ALUMINUM, BORDER TYPE 1 IN GYP, BD. CLG. PAINTED BLACK TO MATCH CEILING WHERE CEILING IS NOT WHITE, REF ARCH. SHEETS.
⊠	C	NAILOR	51EC	24x24 RETURN GRILLE/ 12x12 RETURN GRILLE	SEE PLAN	EGGCRATE, BORDER TYPE 1
▭	D	NAILOR	610V-0	SIDEWALL SUPPLY, 1/2" WIDTH, WHITE, PAINTED TO MATCH SPIRAL DUCT.	--	SURFACE MOUNT, EACH SHALL HAVE SADDLE-MOUNT FITTING WITH NECK VOLUME DAMPER. 18/6 U.N.O.

NOTE:
1. ALL GRILLES IN GYP BOARD CEILING SHALL BE ORDERED WITH INTEGRAL BALANCING DAMPERS.
2. PROVIDE RECTANGULAR TO ROUND ADAPTERS WHEREVER NECESSARY.
3. NOT ALL DEVICES USED ON ALL JOBS.
4. TRANSITION NECK SIZE ON SUPPLY AND RETURN AS NEEDED TO ENSURE SAME SIZE (WITHIN 2") SUPPLY AND RETURN REGISTERS FOR UNIFORM APPEARANCE.

SPLIT SYSTEM SCHEDULE (HEAT PUMP)

UNIT MARK	MANUFACTURER MODEL NUMBER	TONNAGE	COOL (B.T.U.)	SEER (EER)	HEAT (B.T.U.)	HEAT (COP)	HSPF (IV)	HEAT (KW)	CFM	OUTSIDE AIR(CFM)	S.P.	H.P.	VOLT/PHASE	MCA	MOCP	WEIGHT (LBS)	NOTES
AHU-1 BY LANDLORD	LENNOX CBX27UH-048	4.0	-	-	-	-	-	4.0	1600	480	1.0	1.0	208/1	28	30	159	1-6
CU-1 BY LANDLORD	LENNOX TPA048H4N41Y	4.0	48,000	15.0	47,500	3.62	9.2	-	-	-	-	-	208/3	18.92	30/3	202	1,2,3,6

NOTES:
1. PROVIDE WITH FACTORY TXV EXPANSION DEVICE.
2. SUSPEND AHU FROM STRUCTURE AND INSTALL CONDENSING UNITS ON LOWER ROOF ABOVE SPACE (LEVEL 5).
3. ROOF MOUNTED EQUIPMENT WILL NEED TO BE SECURED TO STRUCTURE PER LOCAL REQUIREMENTS.
4. 4.0 KW ELECTRIC HEATER MODEL# ECB29-8. CONFIRM O.C.P WITH NAMEPLATE ON AHU AND ADJUST BREAKER/WIRE AS NEEDED, PRIOR TO INSTALL.
5. PROVIDE WITH ECONOMIZER WHERE REQUIRED PER LOCAL CODE.
6. AHRI REFERENCE # IS 9032383
7. DEFROST KICKS IN AT 42?F. ELECTRIC HEAT ONLY NEEDED DURING DEFROST CYCLE.

SPLIT SYSTEMS SHALL BE ORDERED/INSTALLED WITH ALL TYPICAL SPLIT SYSTEM COMPONENTS FOR A FULLY OPERATIONAL SYSTEM, INCLUDING BUT NOT LIMITED TO: (O.A. DUCT, BAROMETRIC RELIEF, REFRIGERANT LINES, SEPARATE DISCONNECTS, MAINTENANCE RECEPTACLE, HEAT (WHERE SCHEDULED, ELECTRIC, SEPARATE DISCONNECT IF NECESSARY, OR SUPPLEMENTAL DUCT HEATER), 6" HOUSEKEEPING PAD, CLEAR FLOOR SPACE WITH BOLLARDS IF NECESSARY FOR GROUND MOUNT, CONDENSATE OVERFLOW FLOAT SWITCH, DRAIN PANS, PRIMARY/SECONDARY OVERFLOW, APPROVED POINT OF DISCHARGE, SIDEWALL INTAKE LOUVER FOR O.A. WHERE ROOF INTAKES ARE PROHIBITED OR OTHERWISE NOT APPROPRIATE, BAROMETRIC RELIEF FOR O.A., ACCESS PANEL FOR AHU ABOVE CEILING, UNITS, VIBRATION ISOLATION, ACOUSTICAL DUCT INSULATION, DUCT DETECTORS, ETC.), AHU ECONOMIZER CONTROLLER, ACTUATORS, 3-POSITION DAMPERS, RELAYS, WIRING, ALL OF COMPATIBLE VOLTAGES.

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. COORDINATE ROOF ACCESS WITH LANDLORD.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES / REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD AN EXAMINATION AND CODE REVIEW BEEN MADE, WILL NOT BE ALLOWED.

ANY EXISTING HVAC EQUIPMENT THAT IS BEING REUSED SHALL HAVE IT'S POWER (SERVICE OUTLET, HVAC UNIT POWER, DUCT DETECTOR, ETC.) MIGRATED TO THE NEW ELECTRICAL PANEL(S). REUSE DISCONNECTS WHERE CODE COMPLIANT. REPLACE WHEN IN POOR SHAPE, UNDERSIZED OR OTHERWISE NECESSARY. CIRCUIT TO OPEN BREAKERS IF CIRCUIT IS NOT CALLED OUT.

ALL SUPPLY DUCTWORK SHALL BE INTERNALLY INSULATED, DOUBLE-WALL METAL "SPIRAL" DUCT MAINS. SUPPLY BRANCHES SHALL BE RIGID METAL AND INTERNALLY INSULATED. SUPPLY REGISTERS AND TAPS SHALL BE INTERNALLY INSULATED WITH THERMAL BREAKS TO PREVENT "SWEATING". FLEX DUCT AND DUCT BOARD WILL NOT BE PERMITTED, EXCEPT FOR A 5'-0" OR LESS SEGMENT OF FLEX DUCT TO CONNECT TO DIFFUSERS ABOVE A LAY-IN GRID CEILING, WHICH SHALL BE FULLY CONCEALED FROM VIEW.

CUPERTINO, CA NOTE:

THIS IS A MULTI-STORY BUILDING. CONDENSING UNIT WILL BE PLACED ON THE LOWER ROOF.

CUPERTINO, CA NOTE:

NO GAS TO BE USED IN THIS JOB. ALL EQUIPMENT WILL BE ELECTRIC.

WHEN SPLIT SYSTEMS ARE USED, AND ECONOMIZERS ARE REQUIRED, FOR O.A. DAMPER CONTROLS, USE: ECONOMIZER SPEC: HONEYWELL W7215B1004 WITH TWO C7400A SENSORS FOR DIFFERENTIAL ENTHALPY CONTROL (TO RUN ECONOMIZER).

CONDENSATE LINE SIZES:

3/4"	UP TO 2 TONS CONNECTED.
1"	UP TO 5 TONS CONNECTED.
1-1/4"	UP TO 25 TONS CONNECTED.
1-1/2"	UP TO 50 TONS CONNECTED.
2"	UP TO 170 TONS CONNECTED.

REFER ALSO TO SHEET MEP1.0 FOR MORE MECHANICAL NOTES

HVAC SUMMARY:

960 SQ FT.

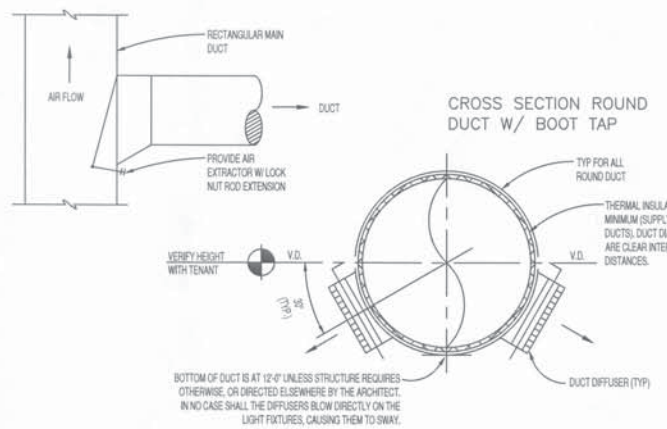
4.0 TONS

240 SF/TON

AIR DEVICE NECK CHART

8"ø - 0 TO 180 CFM
10"ø - 185 TO 350 CFM
12"ø - 355 TO 550 CFM
14"ø - 555 TO 850 CFM
16"ø - 855 TO 1350 CFM
18"ø - 1360 TO 1750 CFM

**USE ABOVE SIZES UNLESS OTHERWISE INDICATED.



02 EXPOSED SPIRAL DUCT DIFFUSER TAP DETAIL
SCALE:NONE

EXHAUST FAN SCHEDULE (INLINE)

MARK	MANUFACTURER	MODEL	DRIVE	AIRFLOW (CFM)	EXT. SP (IN W.C.)	V, PH, HZ	MOTOR SIZE (HP)	SERVICE	APPROXIMATE WEIGHT (LBS)	INSTALL LOCATION	NOTES
EF 1	GREENHECK	SQ-95-VG	DIRECT	480	0.50"	115/1/60	1/6	RR, BARBER & UTILITY RM.	50	PLENUM	1,2

1. CONTROL TO BE INTERLOCKED WITH AHU/CU-1
2. PROVIDE WITH GRAVITY BACK DRAFT DAMPER.

ASHRAE 62.1 Ventilation Comparison (CALIFORNIA) 10/9/2017 Bishops - Cupertino, CA

Zone Identification			Standard Case: ASHRAE 62.1 - Table 403.3 Verification Rate Procedure											Design Case		
Zone	Occupancy Category	Area (sf) (Az)	Table 6-1 People Outdoor Air Rate (cfm/ person)	Table 6-1 Area outdoor Air Rate (cfm/sf) (Ra)	Expected Occupant Density (#/1000 sf)	Zone Population (# persons) (Pz)	Breathing Zone Outdoor Air Flow (CFM) (Vbz)	From Table 6-2 Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air Flow (CFM) (Voz)	Zone Primary Air Flow Fraction (CFM) (Vpz)	Factor Zp= Voz/Vpz	From Table 6-3 System Ventilation Efficiency (Ev)	Outdoor Air Intake Flow (CFM) (Vot)	Total Outdoor Airflow provided by HVAC equip. (CFM)	Total Airflow provided by HVAC equip. (CFM)	Design % by which Outside Air Design Flow Exceeds Standard
Salon	Salon	960	7.5	0.06	25	24	237.6	0.8	297.0	1	297.0	1	297.0	480	1600	61.6%
	Total	960				24					Total (CFM):		297.0	480	1600	

$V_{bz} = R_p * P_z + R_a * A_z$
V_{pz} = Total airflow provided by the HVAC equipment (Outdoor + Recirculated).
$V_{ot} = V_{bz}/E_v$
$Z_p = V_{oz}/V_{pz}$

Barber Shop requires 0.5 cfm exh psf.
Required Exhaust = 0.5 * 960 480

Terminology has been adopted from ASHRAE std 62.1-2010, refer to Chapter 6 of that code for additional terminology, equations, etc.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
T	THERMOSTAT @ 48" AFF
D	DUCT MOUNTED SMOKE DETECTOR
S	REMOTE ROOM TEMPERATURE SENSOR AT 96" AFF
	VOLUME DAMPER
M	MOTORIZED DAMPER WITH ACTUATOR
AHU	AIR HANDLING UNIT
EF	EXHAUST FAN
FSD	FIRE SMOKE DAMPER
B	BAROMETRIC FLAP DAMPER

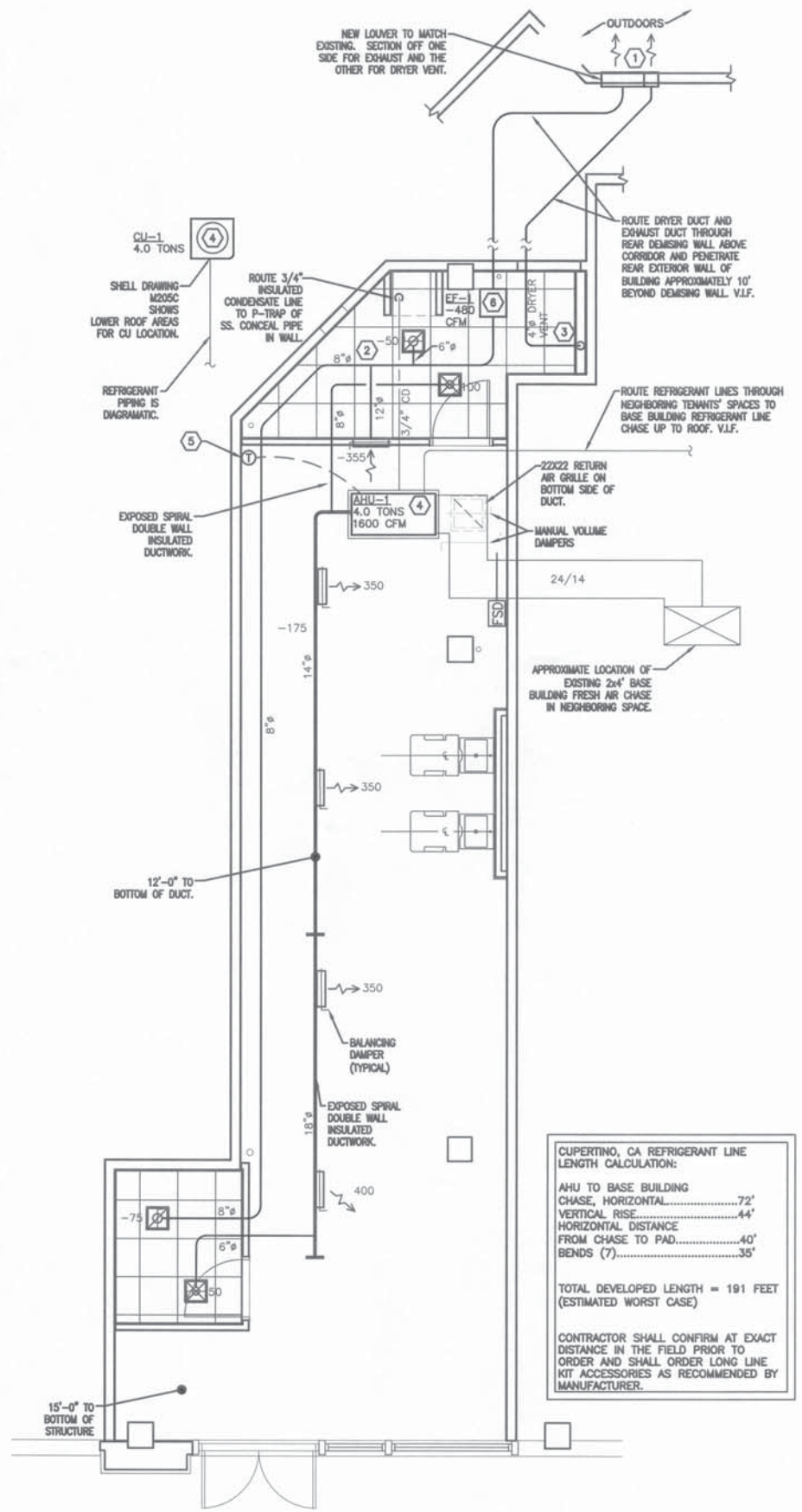
FIELD VERIFY LOCATION OF PLUMBING VTR, INSTALL AFTER ALL HVAC UNITS ARE IN PLACE TO ENSURE NO VENT IS WITHIN 10'-0" OF ANY FRESH AIR INTAKE AND THAT NO EXTRA / UNNECESSARY ROOF PENETRATIONS ARE MADE.

CUPERTINO, CA NOTE:

THE LANDLORD SHALL PROVIDE HVAC UNITS (HEAT PUMPS) AND THE TENANT SHALL PROVIDE DISTRIBUTION.

CUPERTINO, CA NOTE:

THE CONTRACTOR SHALL ENSURE THAT NO SUPPLY DIFFUSERS BLOW DIRECTLY ON ANY LIGHT FIXTURES WHICH WOULD CAUSE THEM TO SWAY. CUT IN DIFFUSERS AFTER LIGHTS ARE INSTALLED.



01 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

CUPERTINO, CA REFRIGERANT LINE LENGTH CALCULATION:

AHU TO BASE BUILDING CHASE, HORIZONTAL.....72'
VERTICAL RISE.....44'
HORIZONTAL DISTANCE FROM CHASE TO PAD.....40'
BENDS (7).....35'

TOTAL DEVELOPED LENGTH = 191 FEET (ESTIMATED WORST CASE)

CONTRACTOR SHALL CONFIRM AT EXACT DISTANCE IN THE FIELD PRIOR TO ORDER AND SHALL ORDER LONG LINE KIT ACCESSORIES AS RECOMMENDED BY MANUFACTURER.

GHA
Architecture / Development
14901 Quorum Drive
Suite 300
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Ph: (972) 239-8884
Fax: (972) 239-5054

REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH M35700 MECHANICAL 10/24/17

BISHOPS

BISHOPS - TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS-NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

ISSUE

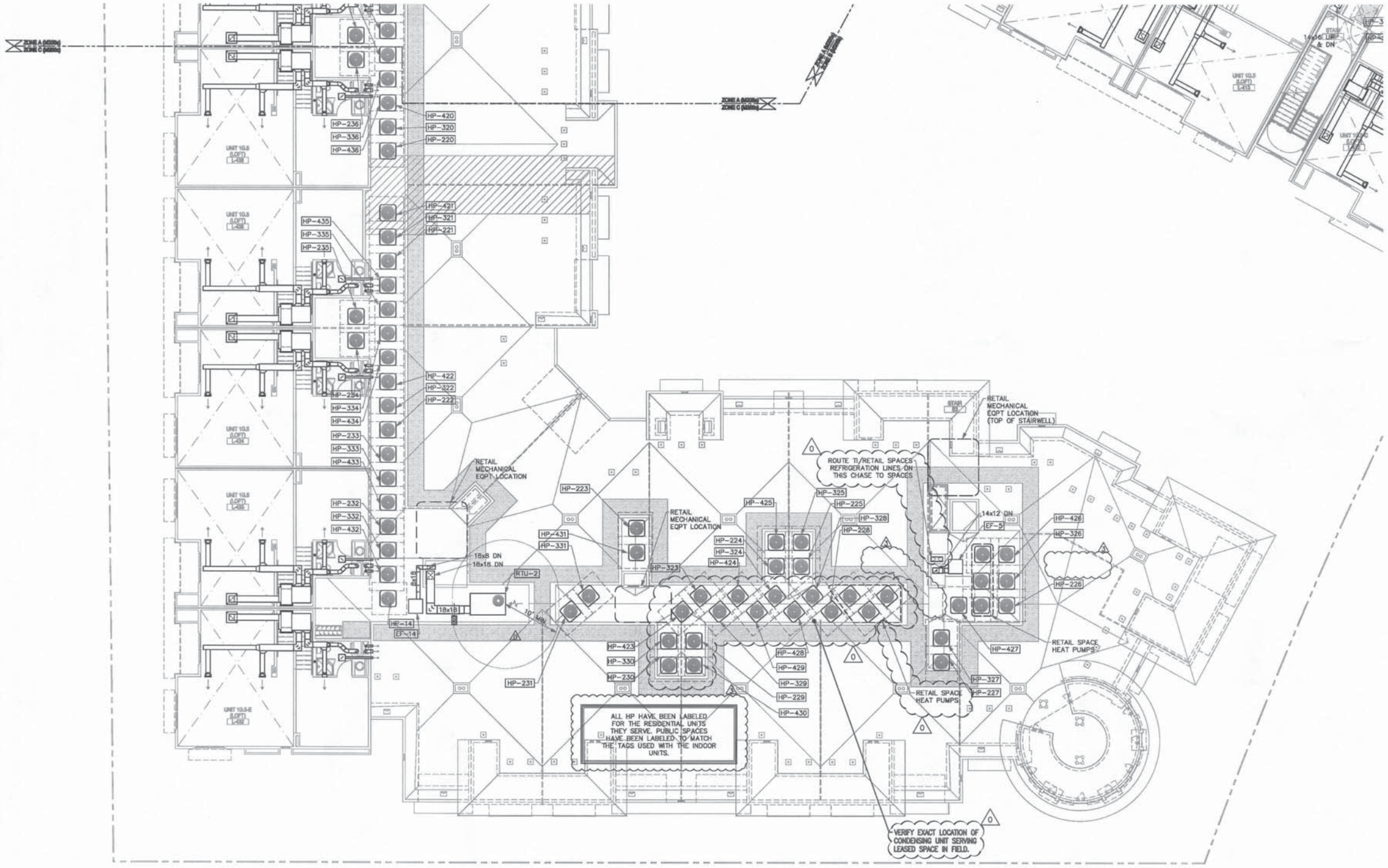
Peter A. Leptuch, P.E.
CA-M35700/CA-E19072
12236 Golden Eagle Ct.
Aubrey, TX 76227
(940) 735-5127

REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — PETER A. LEPTUCH

ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
M1.0
MECHANICAL PLANS
DATE OF THIS PRINTING - 10/26/17



01 LEVEL 5 MECHANICAL ROOF PLAN
SCALE:NONE

CUPERTINO, CA NOTE:

NO INFORMATION AVAILABLE AT TIME OF DESIGN INDICATING WHICH EXISTING CU BAYS WERE BEING USED BY OTHER TENANTS.

CUPERTINO, CA NOTE:

REV 0 INDICATES THE AREA IMPACTED BY THE TENANT FINISHOUT WORK. THIS SHEET IS REFERENCED FROM SHELL DRAWING SK-M38.17 ISSUED REV-3, 2015.

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REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH M 35700 MECHANICAL STATE OF CALIFORNIA
10/26/17

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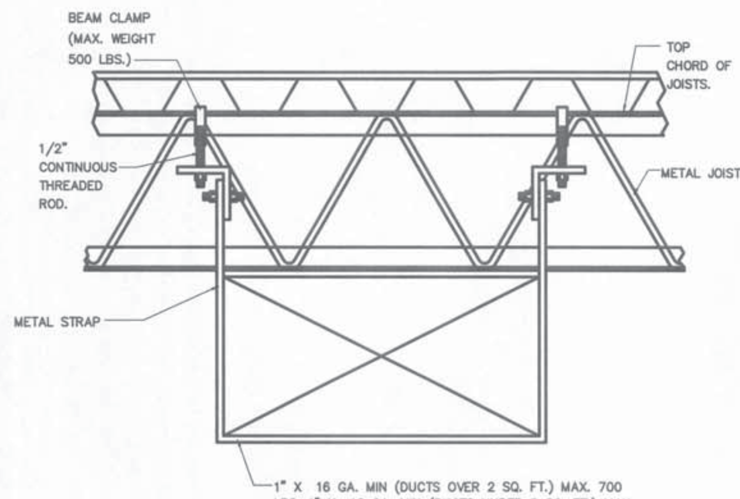
ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
M1.1
MEP SITE PLAN
DATE OF THIS PRINTING – 10/26/17

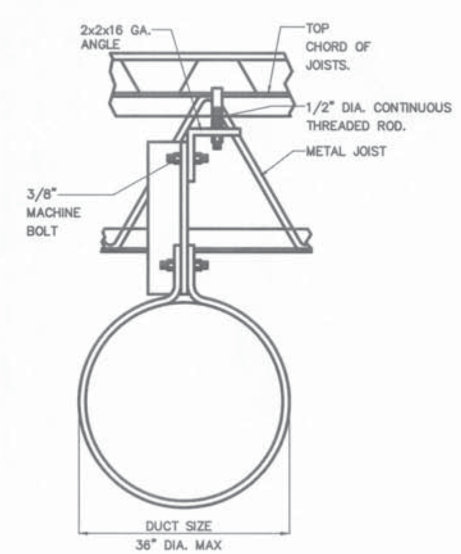


1" X 16 GA. MIN (DUCTS OVER 2 SQ. FT.) MAX. 700 LBS. 1" X 18 GA. MIN (DUCTS UNDER 2 SQ. FT.) MAX. 420 LBS. FOR DUCTS OVER 49" WIDE, TURN METAL STRAP UNDER BOTTOM OF DUCT AND FASTEN

DUCTWORK SUPPORT DETAIL

NOT TO SCALE

MAX. SIDE INCHES	RECTANGULAR DUCTS MIN. GALV. SHT. GAUGE	ALUMINUM MIN. B & S GAUGE
THROUGH 12	26 (0.022 IN.)	24 (0.020 IN.)
13 THROUGH 30	24 (0.028 IN.)	22 (0.025 IN.)
31 THROUGH 54	22 (0.034 IN.)	20 (0.032 IN.)
55 THROUGH 84	20 (0.040 IN.)	18 (0.040 IN.)
OVER 84	18 (0.052 IN.)	16 (0.051 IN.)



NOTE: DISTANCE BETWEEN DUCT HANGERS SHALL BE IN ACCORDANCE WITH THE RULES OF THE AGENCIES HAVING JURISDICTION.

MAX WEIGHT PER FOOT = 16 LBS.

ROUND DUCT SUPPORT DETAIL

NOT TO SCALE

DIAMETER INCHES	SPIRAL SEAM DUCT STEEL MIN. GALV. SHT. GAUGE	ROUND DUCTS LONGITUDINAL SEAM DUCT STEEL MIN. GALV. SHT. GAUGE	FITTINGS STEEL MIN. GALV. SHT. GAUGE
THROUGH 12	28 (0.019 IN.)	26 (0.022 IN.)	26 (0.022 IN.)
13 THROUGH 18	26 (0.022 IN.)	24 (0.028 IN.)	24 (0.028 IN.)
19 THROUGH 28	24 (0.028 IN.)	22 (0.034 IN.)	22 (0.034 IN.)
29 THROUGH 36	22 (0.034 IN.)	20 (0.040 IN.)	20 (0.040 IN.)
37 THROUGH 52	20 (0.040 IN.)	18 (0.052 IN.)	18 (0.052 IN.)

01 DUCTWORK SUPPORT DETAIL

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

TABLE 6-4: DUCT INSULATION SCHEDULE
2016 CALIFORNIA MECHANICAL CODE

DUCT LOCATION	INSULATION TYPES MECHANICALLY CODED	HEATING ZONE ?	INSULATION TYPES HEATING ONLY
ON ROOF ON EXTERIOR OF BUILDING	C, V[4] AND W	I II III	A AND W B AND W C AND W
ATTICS, GARAGES AND CRAWL SPACES	A AND V[4]	I II III	A A B
IN WALLS,[1] WITHIN FLOOR–CEILING SPACES[1]	A AND V[4]	I II III	A B B
WITH THE CONDITIONED SPACE OR IN BESEMENTS; RETURN DUCTS IN AIR PLENUMS			
CEMENT SLAB OR WITHIN GROUND			

02 DUCT INSULATION AND SUPPORT

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

TABLE 6-5: DUCT SUPPORT
PART 1 – VERTICAL DUCTS

MAXIMUM SIDE OF RECTANGULAR DUCT	METAL STRAP OR ANGLE BRACKET	MAXIMUM DIAMETER OF ROUND DUCTS	STRAPS
ON ROOF ON EXTERIOR OF BUILDING	C, V[4] AND W	I II III	A AND W B AND W C AND W
ATTICS, GARAGES AND CRAWL SPACES	A AND V[4]	I II III	A A B
IN WALLS,[1] WITHIN FLOOR–CEILING SPACES[1]	A AND V[4]	I II III	A B B
WITH THE CONDITIONED SPACE OR IN BESEMENTS; RETURN DUCTS IN AIR PLENUMS			
CEMENT SLAB OR WITHIN GROUND			
CEMENT SLAB OR WITHIN GROUND			

NOTE: WHERE DUCTS ARE USED FOR BOTH HEATING AND COOLING, THE MINIMUM INSULATION SHALL BE AS REQUIRED FOR THE MOST RESTRICTIVE CONDITION.

1. HEATING DEGREE DAYS:
   - ZONE I — BELOW 4500 D.D.
   - ZONE II — 4501 TO 8000 D.D.
   - ZONE III — OVER 8000 D.D.
2. VAPOR RETARDERS SHALL BE INSTALLED ON SUPPLY DUCTS IN SPACES VENTED TO THE OUTSIDE IN GEOGRAPHIC AREAS WHERE THE SUMMER DEW POINT TEMPERATURE BASED ON THE 2-1/2% COLUMN OF DRY-BULB AND MEAN COINCIDENT WET-BULB TEMPERATURE EXCEEDS 60° DEG. F.
3. INSULATION MAY BE OMITTED ON THAT PORTION OF A DUCT WHICH IS LOCATED WITHIN A WALL OR FLOOR CEILING SPACE WHERE:
   - a. BOTH SIDES OF THE SPACE ARE EXPOSED TO CONDITIONED AIR.
   - b. THE SPACE IS NOT VENTILATED.
   - c. THE SPACE IS NOT USED AS A RETURN PLENUM.
   - d. THE SPACE IS NOT EXPOSED TO UNCONDITIONED AIR.
   CEILINGS WHICH FORM PLENUMS NEED NOT BE INSULATED.
4. INSULATION TYPES:

A. A MATERIAL WITH AN INSTALLED CONDUCTANCE OF 0.48 OR THE EQUIVALENT THERMAL RESISTANCE OF 2:1.
EXAMPLE OF MATERIALS CAPABLE OF MEETING THE ABOVE REQUIREMENTS:
1 INCH 60 LB/CU. FT. MINERAL FIBER, ROCK, SLAG OR GLASS BLANKETS.
½ INCH, 1.5 TO 3 LB/CU. FT. MINERAL FIBER BLANKET DUCT LINER.
½ INCH, 3 TO 10 LB/CU. FT. MINERAL FIBER BOARD.

B. A MATERIAL WITH AN INSTALLED CONDUCTANCE OF 0.24 OR THE EQUIVALENT THERMAL RESISTANCE OF 4:2.
EXAMPLE OF MATERIALS CAPABLE OF MEETING THE ABOVE REQUIREMENTS:
2 INCH 0.60 LB/CU. FT. MINERAL FIBER BLANKETS.
½ INCH, 1.5 TO 3 LB/CU. FT. MINERAL FIBER BLANKET DUCT LINER.
½ INCH, 3 TO 10 LB/CU. FT. MINERAL FIBER BOARD

C. A MATERIAL WITH AN INSTALLED CONDUCTANCE OF 0.16 OR THE EQUIVALENT THERMAL RESISTANCE OF 6:3.
EXAMPLE OF MATERIALS CAPABLE OF MEETING THE ABOVE REQUIREMENTS:
3 INCH 0.60 LB/CU. FT. MINERAL FIBER BLANKETS.
½ INCH, 1.5 TO 3 LB/CU. FT. MINERAL FIBER BLANKET DUCT LINER.
½ INCH, 3 TO 10 LB/CU. FT. MINERAL FIBER BOARD

D. VAPOR RETARDERS: MATERIAL WITH A PERM RATING NOT EXCEEDING 0.5 PERM. ALL JOINTS TO BE SEALED.

E. APPROVED WEATHER PROOF BARRIER.

THE EXAMPLE OF MATERIALS LISTED UNDER EACH TYPE IS NOT MEANT TO LIMIT OTHER AVAILABLE THICKNESS AND DENSITY COMBINATIONS WITH THE EQUIVALENT INSTALLED CONDUCTANCE OR RESISTANCE BASED ON THE INSULATION ONLY.

HVAC Load Calculation - Barber Shop	10/9/2017	Bishops - Cupertino, CA	17.122
Cooling Load Analysis:	ASHRAE DESIGN:	DB = 92.3	
Sensible Heat:	Basis of Design: San Jose, CA	WB = 66.9	
	Design Indoor Temp	68 F	in Spin St
H_sensible, O.A. = 1.08 * cfm * delta T	H_sensible_OA =	12597.12 dT =	24.3
H_sensible, lighting = watts * 3.413	H_sens_ltg=	4914.72	
H_sensible, people =250 * # people	H_sens_ppl =	4500	
H_sensible, walls = A*u*dT	H_sens_wall =	802.7368 (dT = 40F)	
H_sensible, floor = A*u*dT	H_sens_floor =	960 (dT = 1F)	
H_sensible, roof = A*u*dT	H_sens_roof =	480 (dT=50F)	
H_sensible, window conductance = A_glass*U*dT	H_sens_glass =	2722.5	
H_sensible, window transmittance = A_glass*SHGC*Et	H_sens_solar gain =	12540	
H_latent, O.A. = 0.68 * q*delta w_grains	H_latent_OA =	-4732.8	
H_latent, people = 250 * # people	H_latent_ppl=	4500	
Lighting Load (watts)	1440 (from Comcheck/ T-24 / FlaCom)		
Occupant Load	18 (Auto Populate - from ASHRAE calculation)		
Grains O.A. =	57.7 <----- update per site		
Grains I.A. =	72.2 (72.2 is for saturated air at 58F)		
Outside Air, Ventilation =	480 (Auto Populate - from ASHRAE calculation)		
Roof / Floor Area =	960 (Auto Populate - from ASHRAE calculation)		
Wall Height - Average	18.6 <----- update per site		
Perimeter (unconditioned)	20.5 <----- update per site		
Wall Area =	381.3		
Window Length =	15 <----- update per site		
Window Height =	11 <----- update per site		
Window Area =	165		
Shading Factor =	0.5 (0 = none, 1.0 = fully shaded)		
R-value Walls = (R_net) =	19 New Wall		
U-value Walls =	0.052632 Average Wall		
R-floor = (R_net) =	1 (Parking Below)		
U-floor	1		
R-roof = (R_net) =	100 Residential Above - Conditioned		
U-roof	0.01 Average Roof		
U-glass	0.55 (use 1.1 for 1-pane glass; use 0.55 for double pane glass, energy star windows can be 0.55 max.)		
SHGC	0.76 (use 0.76 for ordinary windows)		
Et = incident solar radiation	200 (assume peak daily, btu/hr p.s.f. Solar constant is 442 BTUH/hr at top of atmos, 317 at sfc.))		
Total Cooling Load:		**39284.28**	
Space Load - Tonnage Required		**3.27369 tons**	
Safety Factor (10%)		**43212.7**	
Space Load - Recommended Tonnage		**3.601059 tons**	
Mechanical contractor shall verify Existing HVAC Unit meets the above minimum requirement.			

HVAC Load Calculation - Barber Shop	10/9/2017	Bishops - Cupertino, CA
Heating Load Analysis:	ASHRAE DESIGN:	DB = 35.7
Sensible Heat Loss:	Design Temp	70
H_sensible, O.A. = 1.08 * cfm * delta T	H_sensible_OA =	-17781.1 (dT = 57F)
H_sensible, O.A. = 1.08 * cfm * delta T	H_sensible_OA =	-11113.2 (dT = 57F)
H_sensible, walls = A*u*dT	H_sens_wall =	-688.347 (dT = 57F)
H_sensible, floor = A*u*dT	H_sens_floor =	2880 (dT = 3F)
H_sensible, roof = A*u*dT	H_sens_roof =	-329.28 (dT = 57F)
H_sensible, window conductance = A_glass*U*dT	H_sens_glass =	-3112.73
Outside Air, ventilation =	480 (from ASHRAE calculation)	
Outside Air, intrusion =	300 (from open doors on windy winter days)	
Outside Air =	780	
Roof / Floor Area =	960 <----- update per site	
Wall Height - Average	18.6 <----- update per site	
Perimeter (unconditioned)	20.5 <----- update per site	
Wall Area =	381.3	
Window length =	15 <----- update per site	
Window height =	11 <----- update per site	
Window Area =	165	
Shading Factor =	0.5 (0 = none, 1.0 = fully shaded)	
R-value Walls = (R_net) =	19 New Wall	
U-value Walls =	0.052631579 Average Wall	
R-floor = (R_net) =	1	
U-floor	1	
R-roof = (R_net) =	100 New Roof	
U-roof	0.01 Average Roof	
U-glass	0.55 (use 1.1 for 1-pane glass; use 0.55 for double pane glass, energy star windows can be 0.55 max.)	
Total Heating Load:		**-30144.7**
Safety Factor (25%)		**-37680.8 MBH**
Space Load - Tonnage Required		**11.04039 KW**
Mechanical contractor shall verify Existing HVAC Equipment meets the above minimum requirement.		

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REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH M35700 MECHANICAL STATE OF CALIFORNIA
10/26/17

BISHOPS
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19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS–NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

ISSUE

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ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
M2.0
SEISMIC MECHANICAL DETAILS

DATE OF THIS PRINTING – 10/26/17

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 1 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Comp. Doc./Worksheet #	Title
☑	☐	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable.
☑	☐	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
☑	☐	NRCC-MCH-02-E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
☐	☑	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
☐	☑	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
☐	☑	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 2 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By:

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck – The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
Lennox TPA-04	1	☑	☑	☐	☐	☑	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 3 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By:

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck – The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-12-A	MCH-13-A	MCH-14-A	MCH-15-A	MCH-16-A	MCH-17-A	MCH-18-A
Equipment Requiring Testing or Verification	# of Units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
Lennox TPA-04	1	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
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		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 4 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Peter A. Leptuch	Documentation Author Signature: [signature]
Company: Peter A. Leptuch, P.E.	Signature Date: 10/23/2017
Address: 1236 Golden Eagle Court	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name: Peter A. Leptuch	Responsible Designer Signature: [signature]
Company: Peter A. Leptuch, P.E.	Date Signed: 10/23/2017
Address: 1236 Golden Eagle Court	License: M35700
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

STATE OF CALIFORNIA
HVAC DRY & WET SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry & Wet System Requirements	(Page 1 of 3)
Project Name: Bishops	Date Prepared: 10/23/2017

A. Equipment Tags and System Description[1] – Dry Systems		HP-1		
MANDATORY MEASURES	***T-24 Sections***	***Reference to the Requirements in the Contract Documents[2]***		
Heating Equipment Efficiency[3]	110.1 or 110.2(a)			
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)			
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)			
Furnace Standby Loss Control	110.2(d)			
Low Leakage AHUs	110.2(f)			
Ventilation[4]	120.1(b)			
Demand Control Ventilation[5]	120.1(c)4			
Occupant Sensor Ventilation Control[6]	120.1(c)5, 120.2(e)3			
Shutoff and Reset Controls[7]	120.2(e)			
Outdoor Air and Exhaust Damper Control	120.2(f)			
Isolation Zones	120.2(g)			
Automatic Demand Shed Controls	120.2(h)			
Economizer FDD	120.2(i)			
Duct Insulation	120.4			
PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4(a & b)	140.4(a & b)	Y Y/N	Y/N	Y/N
Supply Fan Pressure Control	140.4(c)			
Simultaneous Heat/Cool[8]	140.4(d)			
Economizer	140.4(e)			
Heat and Cool Air Supply Reset	140.4(f)			
Electric Resistance Heating[9]	140.4(g)			
Duct Leakage Sealing and Testing[10]	140.4(l)			

Notes:

1. Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.
2. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
3. The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.
4. Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more spaces is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E compliance document.
5. If one or more spaces has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.
6. If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation
7. If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).
8. Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E compliance document.
9. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.
10. If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

STATE OF CALIFORNIA
HVAC DRY & WET SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry & Wet System Requirements	(Page 2 of 3)
Project Name: Bishops	Date Prepared: 10/23/2017

B. Equipment Tags and System Description[1] – Wet Systems				
MANDATORY MEASURES	***T-24 Sections***	***Reference to the Requirements in the Contract Documents[2]***		
Heating Hot Water Equipment Efficiency[3]	110.1			
Cooling Chilled and Condenser Water Equipment Efficiency[3]	110.1, 140.4(i)			
Open and Closed Circuit Cooling Towers conductivity or flow-based controls	110.2(e) 1			
Open and Closed Circuit Cooling Towers Maximum Achievable Cycles of Concentration (LSI)[6]	110.2(e) 2			
Open and Closed Circuit Cooling Towers Flow Meter with analog output	110.2(e) 3			
Open and Closed Circuit Cooling Towers Overflow Alarm	110.2(e) 4			
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators	110.2(e) 5			
Pipe Insulation	120.3			
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5	Y/N	Y/N	Y/N
Cooling Tower Flow Controls	140.4(h)3			
Centrifugal Fan Cooling Towers[4]	140.4(h)4			
Air-Cooled Chiller Limitation[5]	140.4(j)			
Variable Flow System Design	140.4(k)			
Chiller and Boiler Isolation	140.4(k)			
CHW and HHW Reset Controls	140.4(k)			
WLHP Isolation Valves	140.4(k)			
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)			
DP Sensor Location	140.4(k)			

Notes:

1. Provide equipment tags (e.g. CH 1 to 3) or system description (e.g. CHW loop) as appropriate. Multiple units with common requirements can be grouped together.
2. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
3. The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. For chillers operating at non-standard efficiencies provide the Kadj values. For chillers also note whether the efficiencies are Path A or Path B.
4. Identify if cooling towers have propeller fans. If towers use centrifugal fans document which exception is used.
5. If air-cooled chillers are used, document which exceptions have been used to comply with 140.4(j) and the total installed design capacity of the air-cooled chillers in the chilled water plant.
6. Identify the existence of a completed MCH-06-E when open or closed circuit cooling towers are specified to be installed, otherwise enter "N/A".

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REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH M 35700 MECHANICAL STATE OF CALIFORNIA
10/26/17

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SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS–NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO	REVISION

ISSUE

Peter A. Leptuch, P.E.
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ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
M2.1
MECHANICAL
TITLE 24
DATE OF THIS PRINTING – 10/26/17

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02E (Revised 09/16) — CALIFORNIA ENERGY COMMISSION — NRCC-MCH-02-E

CERTIFICATE OF COMPLIANCE — (Page 3 of 3)
HVAC Wet System Requirements

Project Name: Bishops — Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Peter A. Leptuch	Documentation Author Signature:	
Company:	Peter A. Leptuch, P.E.	Signature Date:	10/23/2017
Address:	1236 Golden Eagle Court	CEA/HERS Certification Identification (if applicable):	
City/State/Zip:	Aubrey, TX 76227	Phone:	(940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	Peter A. Leptuch	Responsible Designer Signature:	
Company:	Peter A. Leptuch, P.E.	Date Signed:	10/23/2017
Address:	1236 Golden Eagle Court	License:	M35700
City/State/Zip:	Aubrey, TX 76227	Phone:	(940) 735-5127

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-MCH-04-E

CERTIFICATE OF COMPLIANCE — (Page 1 of 3)
Required Acceptance Tests

Project Name: Bishops — Date Prepared: 10/23/2017

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS
(Indicate if worksheet is included)

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MECH-05-E are alternative compliance documents to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
✓		NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
✓		NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
✓		NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
✓		NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-MCH-04-E

CERTIFICATE OF COMPLIANCE — (Page 2 of 3)
Required Acceptance Tests

Project Name: Bishops — Date Prepared: 10/23/2017

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:
Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements.
The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC Installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.

Test Description	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	Test Performed By:
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	
Lennox TPA	1	✓	✓			✓						

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-MCH-04-E

CERTIFICATE OF COMPLIANCE — (Page 3 of 3)
Required Acceptance Tests

Project Name: Bishops — Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Peter A. Leptuch	Documentation Author Signature:	
Company:	Peter A. Leptuch, P.E.	Signature Date:	10/23/2017
Address:	1236 Golden Eagle Court	CEA/HERS Certification Identification (if applicable):	
City/State/Zip:	Aubrey, TX 76227	Phone:	(940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	Peter A. Leptuch	Responsible Designer Signature:	
Company:	Peter A. Leptuch, P.E.	Date Signed:	10/23/2017
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City/State/Zip:	Aubrey, TX 76227	Phone:	(940) 735-5127

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-MCH-05-E

CERTIFICATE OF COMPLIANCE — (Page 1 of 2)
Requirements for Packaged Single-Zone Units

Project Name: Bishops — Date Prepared: 10/23/2017

Equipment Tag(s)[1]		HP-1						
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[2]	*As Scheduled*[2]	*Requirement*[2]	*As Scheduled*[2]	*Requirement*[2]	*As Scheduled*[2]
Heating Equipment Efficiency[3]	110.1 or 110.2(a)	7.70 HSPF	9.20 HSPF				
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)	13 SEER	15.0 SEER / 12				
Thermostats[4]	110.2(b), 110.2(c)	Setback	Setback				
Furnace Standby Loss Control[5]	110.2(d)	n/a					
Low Leakage AHU	110.2(f)	NR	none				
Ventilation[6]	120.1(b)	559	141				
Demand Control Ventilation[7]	120.1(c)4	NR	Yes				
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable				
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto				
Automatic Demand Shed Controls	120.2(h)	NR	none				
Economizer FDD	120.2(i)	NR					
Duct Insulation	120.4	n/a	none				
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	19,386 Btu/hr 54,795 Btu/hr	31,303 Btu/hr 38,582 Btu/hr				
Economizer	140.4(e)	NR	No Economize				
Electric Resistance Heating[10]	140.4(g)	No	No				
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No				

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat)... In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at ≥225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
11. *If duct leakage sealing and testing is required, a **MCH-04-A** compliance document must be submitted.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-MCH-05-E

CERTIFICATE OF COMPLIANCE — (Page 2 of 2)
Requirements for Packaged Single-Zone Units

Project Name: Bishops — Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Peter A. Leptuch	Documentation Author Signature:	
Company:	Peter A. Leptuch, P.E.	Signature Date:	10/23/2017
Address:	1236 Golden Eagle Court	CEA/HERS Certification Identification (if applicable):	
City/State/Zip:	Aubrey, TX 76227	Phone:	(940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	Peter A. Leptuch	Responsible Designer Signature:	
Company:	Peter A. Leptuch, P.E.	Date Signed:	10/23/2017
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REGISTERED PROFESSIONAL ENGINEER — PETER A. LEPTUCH — M 35700 — MECHANICAL — STATE OF TEXAS
10/26/17

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DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS--NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

ISSUE

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LEPTUCH ENGINEERING & CONSULTING SERVICES

ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
M2.2
MECHANICAL
TITLE 24
DATE OF THIS PRINTING – 10/26/17

STATE OF CALIFORNIA

WATER HEATING SYSTEM GENERAL INFORMATION

CEC-NRCC-PLB-01-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 1 of 2)
Project Name: Bishops	Date Prepared: 10/23/2017

A. GENERAL INFORMATION/SYSTEM INFORMATION		
01	Water Heater System Name:	A O Smith Water Products DEL 40
02	Water Heater System Configuration:	Non-Central
03	Water Heater System Type:	
04	Building Type:	
05	Total Number of Water Heaters in Systems:	1
06	Central DHW Distribution Type:	n/a
07	Dwelling Unit DHW Distribution Type:	All Pipes Ins

B. WATER HEATER INFORMATION

Each water heater type requires a separate compliance document.

01	Water Heater Type:	Small Storage Electric
02	Fuel Type:	Electric Res
03	Manufacture Name:	A O Smith Water Products DEL 40
04	Model Number:	
05	Number of Identical Water Heaters:	1
06	Installed Water Heater System Efficiency:	1.00
07	Required Minimum Efficiency:	1.00
08	Standby Loss Percent or Standby Loss Total:	0.750
09	Rated Input:	20,478
10	Pilot Energy:	
11	Water Heater Tank Storage Volume:	40
12	Exterior Insulation on Water Heater:	0
13	Volume of Supplemental Storage:	
14	Internal Insulation on Supplemental Storage:	
15	Exterior Insulation on Supplemental Storage:	

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

Check box if worksheet is included.

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual

Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans.

YES	NO	Doc/Worksheet #	Title
☒	☐	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
☒	☐	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
☐	☐	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

STATE OF CALIFORNIA

WATER HEATING SYSTEM GENERAL INFORMATION

CEC-NRCC-PLB-01-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 2 of 2)
Project Name: Bishops	Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Peter A. Leptuch	Documentation Author Signature: [signature]
Company: Peter A. Leptuch, P.E.	Signature Date: 10/23/2017
Address: 1236 Golden Eagle Court	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name: Peter A. Leptuch	Responsible Designer Signature: [signature]
Company: Peter A. Leptuch, P.E.	Date Signed: 10/23/2017
Address: 1236 Golden Eagle Court	License: M35700
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REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH M 35700 MECHANICAL STATE OF ... 10/26/17

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SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS–NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO	REVISION

ISSUE

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ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER C170339

SHEET NUMBER M2.3

MECHANICAL TITLE 24

DATE OF THIS PRINTING: 10/26/17

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	CW	HW	W	V	ADA	DESCRIPTION
WC-ADA	WATER CLOSET	1"	---	4"	2"	YES	FIXTURES: SLOAN WETS 2020.1001-1.28 MANUAL SLOAN ROYAL 111-1.28 HET FLUSHOMETER AND ADA COMPLIANT HET WATER CLOSET (SUPPLY LINES 1") COLOR: TBD SEAT: CHAMPION #5325.010 (DISTRIBUTION LINES: 1-1/4")
LAV	LAVATORY	1/2"	1/2"	2"	1-1/2"	YES	FIXTURE: AMERICAN STANDARD "LUCERNE" WALL-HUNG LAVATORY, WITH VITREOUS CHINA. FAUCET: AMERICAN STANDARD "MONTERREY" MODEL #6114.114 SINGLE CONTROL CENTERSET FAUCET. CAST BRASS BODY, LESS POP-UP DRAIN, ROD AND HOLE.MIXING VALVES, 0.35 GPM, VANDAL-RESISTANT, PRESSURE COMPENSATING MULTI-LAMINAR SPRAY. MIXING VALVES SHALL BE POWERS #LM495; ASSE 1070.
SS	SERVICE SINK	1/2"	1/2"	3"	1-1/2"	YES	FIXTURES: FLOOR MOUNTED MOP SINK 24"X24", MODEL --FIAT MSB2424. PROVIDE LOW FLOW AERATOR FAUCET: MOEN #8232 W/ ADA LEVER HANDLES. SS DOME STRAINER AND LINT BASKET.
FD	FLOOR DRAIN	---	---	3"	1-1/2"	---	3" CAST IRON FLOOR DRAIN WITH POLISHED NICKEL BRONZE TOP. ZURN Z-415-J (SQUARE) J.R. SMITH NO 2005Y-A, JOSAM3000-S OR APPROVED EQUAL. ADJUSTABLE STRAINER WITH FLASHING CLAMP DEVICE, PROVIDE TRAP PRIMER CONNECTTION PER LL REQUIREMENTS.
LB	WASHING MACHINE BOX	VARIES	VARIES	2"	1-1/2"	---	FIXTURE: OATEY #38747 WITH INTEGRAL SHOCK ARRESTERS OR EQUAL
TP	TRAP PRIMER	---	---	---	---	---	FIXTURE: McGUIRE #8902. / SUPPLIES: McGUIRE #2165CC. / COLOR: WHITE, TRAP PRIMER LINES SHALL BE PIPED HARD DRAWN COPPER, NO EXCEPTIONS.
WHA	WATER HAMMER ARRESTOR.	1/2"	---	---	---	---	PROVIDE AND INSTALL AT ALL FAST CLOSING VALVES, INCLUDING FLUSH VALVES, AND AT ENDS OF FIXTURE RUNS.
SB	SHAMPOO BOWL	3/4"	3/4"	2"	1-1/2"	YES	COLLINS SQUARE PORCELAIN BOWL, CBBO, WHITE, WITH JEFFCO 570 SINGLE HANDLE FAUCET, SPRAY HOSE, VACUUM BREAKER, DRAIN ASSEMBLY, AND MOUNTING BRACKET. 19"W x 20"D x 10"H. TRADITIONAL SIDEWASH BOWL. HAIR TRAP (MARBLE 1701) TO BE FURNISHED AND INSTALLED BY G.C. REQUIRED VENDOR AND CONTACT: COSMOPROF - GREG MCCLELLAN, SALON DESIGNS AND SALES, (425) 457-2644, GMcClellan@CosmoProfBeauty.com
HS	DROP-IN SINK	1/2"	1/2"	2"	1-1/2"	YES	PROVIDED BY OWNER, INSTALLED BY G.C. HAIR TRAP (MARBLE 1701) AND MIXING VALVE (POWERS #LM495-1; ASSE 1070) TO BE FURNISHED AND INSTALLED BY G.C.
RP	RECIRCULATION PUMP	---	1"	---	---	---	GRUNDFOS UP10-16 BU SERIES. 20A/1P POWER, PROVIDE WITH AQUASTAT AND TIMER. 36"-203" SERVICE. 2.2 GPM. 3.9 TOTAL HEAD FT. 115 VOLTS.
WH	WATER HEATER (ELECTRIC)	1"	1"	---	---	---	AO SMITH DEL-40, OR EQUAL. TWO 3.0 KW STAGES. 21.75" DIAMETER, 24" DRAIN PAN. 40 STORAGE GALLONS. GLASS LINING. 120/208 VOLTS 3 PHASE. 6 KW. SEE W.H. SCHEDULE, SHEET MEP2.0.
DF	DRINKING FOUNTAIN	1/2"	---	2"	1-1/2"	YES	ELKAY - EZTL8C BARRIER FREE HI-LOW DRINKING FOUNTAIN. REFER TO ELKAY TEMPLATE FOR WATER ROUGH-IN HEIGHT, CANE APRON, APPROX. 19"AFF. PROVIDE APRON LKAPREZL, INSTALL PER ADA.
FS	FLOOR SINK	---	---	4"	2"	YES	JOSAM 49320-PVC 3" 12X12X6 PVC SQUARE, WITH DOME STRAINER AND HALF-GRATE.

NOTES:
1. ALL FIXTURES MAY BE SUBSTITUTED FOR APPROVED EQUALS.
2. NOT ALL FIXTURES USED ON ALL JOBS.
3. ALL FIXTURES - PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL CODES AND/OR AHJ.

PLUMBING GENERAL NOTES

1. CONTRACTORS AND SUB CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCING THE COMPLETE DOCUMENT SET.
2. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER AND CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.
3. ALL ROOFING WORK (CUTS, REPAIRS, SPUD WORK, ETC.) SHALL BE PERFORMED BY THE LANDLORD'S APPROVED ROOFING CONTRACTOR.
4. DRAWINGS FOR THE PLUMBING WORK ARE DIAGRAMMATIC SHOWING THE GENERAL LOCATION, EQUIPMENT TYPE AND LAYOUT, THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURERS STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PLUMBING, CONNECTIONS, OFFSETS, ACCESSORIES AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
5. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION INCLUDING APPLICABLE LOCAL, STATE AND NATIONAL CODES THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK AND OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
6. WASTE PIPING SHALL BE INSET FROM PERIMETER WALLS EXCEPT AT FIXTURE CONNECTIONS TO AVOID STRUCTURAL ELEMENTS AND ALLOW FOR REPAIRS WITHOUT TEARING OUT A DEMISING WALL, ETC.
7. TRENCHING OF EXISTING REINFORCED CONCRETE FLOOR SLAB IS TO BE KEPT TO A MINIMUM QUANTITY AND WIDTH. WHERE CODES PERMIT, GROUP UNDER FLOOR UTILITIES IN SINGLE TRENCHES. THE MINIMUM TRENCH WIDTH IS TO BE TWELVE INCHES (12"). DOWEL NEW SLAB INFILLS INTO EXISTING SLAB EDGES. PROVIDE SLAB INFILL STEEL REINFORCING TO MATCH EXISTING. COAT SAWCUT SLAB EDGES WITH HIGH-STRENGTH BONDING AGENT. LAY IN NEW UNDERSLAB VAPOR BARRIER, LAP AND SEAL TO EXISTING VAPOR BARRIER.
8. TENANT IS NOT TO SUSPEND ANY ITEMS FROM THE BOTTOM OF THE ROOF DECK. TENANT IS NOT TO SUSPEND ANY ITEMS FROM THE BOTTOM ROOF JOIST OR JOIST GIRDER CHORDS, WITHOUT WRITTEN APPROVAL OF THE BUILDING SHELL STRUCTURAL ENGINEER OF RECORD. TENANT IS TO SUBMIT PROPOSED DETAILS, FOR ITEMS SUSPENDED FROM THE ROOF STRUCTURE, FOR REVIEW BY SHELL STRUCTURAL ENGINEER.
9. IN GENERAL, NO DUCTWORK, CONDUITS, PIPES, BANNERS, SIGNAGE, OR CURTAIN/SUSPENDED FURR-DOWNS OR WALL ARE TO BE SUSPENDED FROM THE BOTTOM OF THE ROOF STRUCTURE, WITHOUT APPROVAL. NO TENANT FINISHOUT WORK IS TO BE SUSPENDED FROM ANY WORK BY ANOTHER TRADE, FROM JOIST BRIDGING OR FROM X-BRACING OR FROM THE BOTTOM OF THE ROOF DECK. SUSPENDED TEE GRID CEILINGS AND LIGHT FIXTURES MAY BE SUSPENDED FROM THE BOTTOM ROOF JOIST AND BOTTOM JOIST GIRDER CHORDS IN MAXIMUM WEIGHTS OF SEVENTY-FIVE (75) POUNDS AT BOTTOM CHORD JOIST PANEL POINTS, WITHOUT ADDED STEEL ANGLE REINFORCING UP TO TOP JOIST CHORDS. SUSPENDED CEILINGS AND LIGHT FIXTURES ARE NOT TO BE SUSPENDED FROM THE BOTTOM OF THE ROOF DECK.
10. SET MAXIMUM TEMPERATURE AT HAND SINKS AT 110°F.
11. PROVIDE HEAT TRACE ON ALL PIPES INSTALLED IN AREAS SUBJECT TO FREEZING. INSTALL PIPING ON CONDITIONED SIDE OF BUILDING INSULATION.
12. PROVIDE CUTOFF ABOVE CEILING, IN ADDITION TO AT FIXTURE WHERE REQUIRED BY A.H.J.
13. LABEL ALL ABOVE CEILING VALVES AND OR EQUIPMENT ON T-BAR GRID, ON ACCESS PANELS SERVING SUCH EQUIPMENT. USE ¾" TEXT ON WHITE PEEL AND STICK LABELS.

THERMOSTATIC MIXING VALVE NOTE:

ALL TEMPERING VALVES TO BE ASSE1070 OR CSAB125.3

CALIFORNIA NOTE:

ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN TABLE 1401.1 OF THE 2016 CPC AND CGBSC CHAPTER 6. CGBSC SECTION 5.303.6

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES / REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD AN EXAMINATION AND CODE REVIEW BEEN MADE, WILL NOT BE ALLOWED.

BISHOPS TYPICAL:

MINIMUM WATER SIZE WITH FLUSH VALVE TOILETS SHALL BE 1-1/4". MINIMUM WATER LINE SIZE WITH FLUSH TANK TOILETS MAY BE 3/4" OR 1" DEPENDING ON SITE CONDITIONS.

CUPERTINO, CA NOTE (HOT WATER RECIRC. SYSTEM):

PER CALIFORNIA ENERGY EFFICIENCY STANDARD, SECTION 113(c)5, THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL:

A) AN AIR RELEASE VALVE REQUIRED ON THE INLET SIDE OF THE RECIRCULATING PUMP, WITHIN 4' OF THE PUMP.

B) A CHECK VALVE REQUIRED BETWEEN THE RECIRCULATING PUMP AND THE WATER HEATING EQUIPMENT TO PREVENT THE HOT WATER FROM FLOWING BACKWARDS THROUGH THE RECIRCULATION LOOP.

C) A CHECK VALVE REQUIRED ON THE COLD WATER SUPPLY LINE BETWEEN THE HOT WATER SYSTEM AND THE NEXT CLOSEST TEE ON THE COLD WATER SUPPLY LINE. (SEE CPC 608.3 FOR EXPANSION TANK REQUIREMENTS)

= CONNECT NEW TO EXISTING

2" AND 3" SANITARY LINES SHALL HAVE 1-1/2" VENT RISERS, 4" SANITARY LINES SHALL HAVE 2" VENT RISERS. OVERHEAD HORIZONTAL VENTS SHALL BE 2". CONFORM TO THESE SIZES UNLESS OTHERWISE ALLOWED/ REQUIRED BY A.H.J..

VERIFY ALL CONDITIONS IN FIELD.

ALL PLUMBING AND ELECTRICAL SHALL BE CONCEALED WITHIN WALLS OR ABOVE CEILING. SOME LINES MAY BE OFFSET TO SHOW DIAGRAMMATIC CONNECTIONS.

CUPERTINO, CA NOTE:

THE CONTRACTOR SHALL CONFIRM THAT ALL POINTS OF CONNECTION TO SANITARY LINES ARE IN FACT SANITARY AND NOT ROOF DRAIN LEADERS OR GREASE WASTE LINES.

BISHOPS - PROTO NOTE:

BASE BID TO ASSUME THAT THE JURISDICTION REQUIRES CONTAINMENT BACK FLOW PREVENTION. P.C. SHALL CONFIRM WITH PLUMBING INSPECTOR IF BUILDING HAS MAIN RPZBFP AND DOES NOT REQUIRE ADDITIONAL BFP IN SPACE, THE PLUMBER MAY OMIT BFP. IF JURISDICTION REQUIRES ISOLATION BFP, THE PLUMBING CONTRACTOR SHALL OMIT THE RPZ BFP NEAR THE MOP SINK AND INSTEAD SHALL PROVIDE A POINT OF USE BFP AT THE WATER BAR, AT THE DRINKING FOUNTAIN. AS APPLICABLE/AS REQUIRED AND ELSEWHERE AS DETERMINED BY THE PLUMBING INSPECTOR.

CALIFORNIA NOTE:

ALL FIXTURES SHALL BE THE MINIMUM WATER EFFICIENCY RATES OF THE FOLLOWING FIXTURES PER CGBSC TABLE 5.303.2.2
A. SHOWERHEADS - 2.0 GPM @ 80 PSI.
B. LAVATORIES - 0.5 GPM @ 60 PSI.
C. WATER CLOSETS - 1.28 GALLONS/FLUSH.
D. URINALS (FLOOR MOUNTED) - 0.5 GALLONS/FLUSH.
E. URINALS (WALL MOUNTED) - 0.125 GALLONS/FLUSH.

CONFIRM AT TIME OF ORDER AND IF THESE EFFICIENCIES ARE NOT MET, ORDER THE NEAREST EQUAL FIXTURE AVAILABLE FROM THE PLUMBING SUPPLY HOUSE THAT MEETS THE ABOVE FLOW REQUIREMENTS.

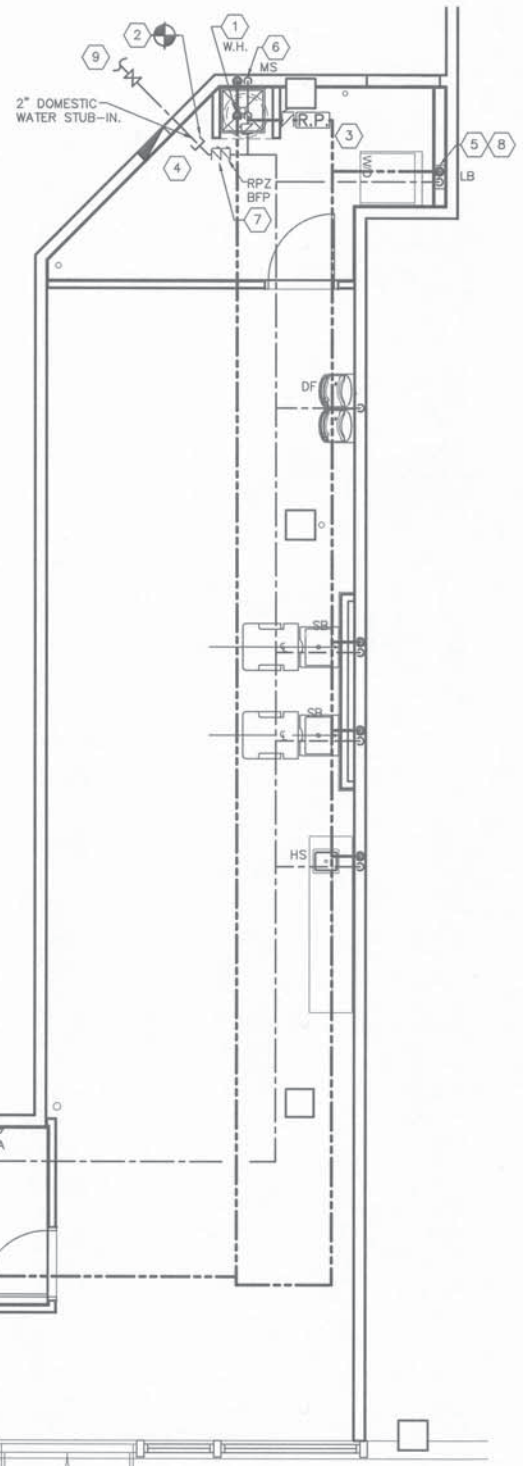
THIS IS A CALIFORNIA PROJECT THAT REQUIRES LOW-FLOW FIXTURES AND NO-LEAD FIXTURES, PER STATE CODE. VERIFY WITH MANUFACTURER AT TIME OF ORDER THAT FIXTURES LISTED HERE WILL BE SUITABLE FOR USE IN THE STATE, AND IF NOT, PROVIDE MOST SIMILAR AVAILABLE COMPLIANT SUBSTITUTE.

PLUMBING LEGEND

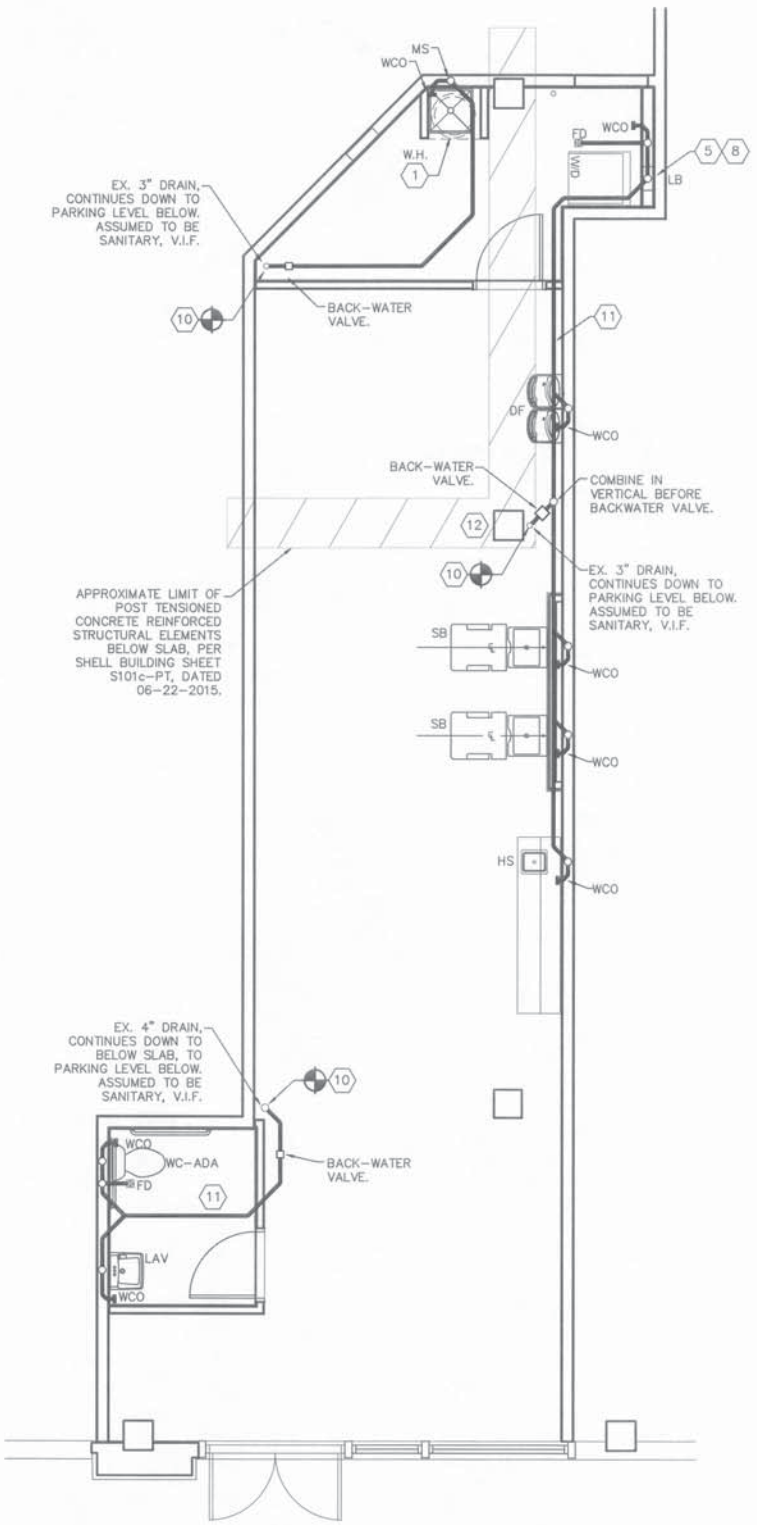
- HW — HOT WATER SUPPLY LINE
- CW — COLD WATER SUPPLY LINE
- X" SAN — SANITARY WASTE LINE
- PIPE DROP
- RISER VENT (DASHED)
- T.P. — TRAP PRIMER
- CONTINUATION
- END CAP
- ISOLATION / SHUT-OFF VALVE
- EXTENT OF SAWCUTTING/ TRENCHING
- M — WATER SUBMETER, BETWEEN VALVE AND 1ST FIXTURE.
- R — REMOTE READOUT FOR SUBMETER, +54" VERIFY LOCATION WITH OWNER'S REP.
- CONNECTION OF NEW TO EXISTING.
- RPZ — REDUCED PRESSURE ZONE BACK FLOW ASSEMBLY.
- CHECK VALVE
- R.P. — RECIRCULATION PUMP.
- WCO — WALL CLEAN OUT
- FCO — FLOOR CLEAN OUT
- VTR — VENT THRU ROOF
- (EX.) — EXISTING PIPING
- X"V — VENT

PLUMBING PLAN KEY NOTES

1. PROVIDE AND INSTALL TANK TYPE WATER HEATER, PER SCHEDULE, AND DETAIL 03 (SHEET M2.0).
2. POINT OF CONNECTION (DIAGRAMMATIC) TO WATER MAIN IN CEILING SPACE, VERIFY POINT OF CONNECTION. FROM POINT OF CONNECTION, ROUTE 1" C.W. PIPING IN JOIST SPACE.
3. PROVIDE TRAP PRIMERS/TRAP GUARDS ON ALL HUB/FLOOR DRAINS, WHERE REQUIRED. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
4. DO NOT ROUTE LINES ABOVE ELECTRICAL GEAR, OR PROVIDE PROTECTION IF LINES ARE EXISTING, VIA WATERPROOF SLEEVE. WHERE IMPRACTICAL, ELECTRICAL CONTRACTOR SHALL PROVIDE NEMA 3R (OUTDOOR RATED) GEAR/EQUIPMENT.
5. PROVIDE WASHER BOX AT 36" AFF FOR HW, CW & SAN CONNECTIONS. WALL SHALL ALLOW FOR 4" DRYER VENT TO BE CONCEALED WITHIN WALL.
6. PROVIDE W.H.A. ON ALL FAST CLOSING VALVES, AND WHERE ELSE INDICATED AND WHERE NECESSARY.
7. B.F.P. SHALL BE ACCESSIBLE FOR INSPECTION AND TESTING. TYPICALLY ABOVE OR NEXT TO WATER HEATER. ROUTE DISCHARGE TO NEAREST APPROVED RECEPTOR, PROVIDE AND INSTALL HUB DRAIN WITH TRAP PRIMER AS NEEDED.
8. FURROUT WALLS AS NECESSARY FOR POWER, PLUMBING, AND DRYER VENT.
9. CUPERTINO, CA - EACH RETAIL SUITE HAS ITS OWN INDIVIDUAL 2" METER AT LANDLORD'S METERING ROOM, PER SITE INVESTIGATION REPORT.
10. CONNECTION TO EXISTING SANITARY SEWER MAIN LOCATION SHOWN IS DIAGRAMMATIC, AT APPROXIMATELY THE LOCATION INDICATED. COORDINATE EXACT LOCATION IN FIELD. MINIMIZE NUMBER OF TIE IN POINTS. VERIFY LOCATION, INVERT, AND DIRECTION OF FLOW PRIOR TO CONNECTING.
11. SLOPE UNDERSLAB 4" SANITARY LINE AT 1/8" PER FOOT. VERIFY EXACT POINT OF CONNECTION IN FIELD.
12. COORDINATE ROUTING OF UNDERSLAB WASTE LINES IN FIELD WITH STRUCTURAL ELEMENTS.



01 PLUMBING SUPPLY PLAN
SCALE: 1/4"=1'-0"



02 PLUMBING WASTE PLAN
SCALE: 1/4"=1'-0"

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Architecture / Development
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Suite 300
Dallas Texas 75254
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REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH M 35700 MECHANICAL CALIFORNIA
10/24/17

BISHOPS

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CUPERTINO, CA 95014

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PLUMBING PLANS
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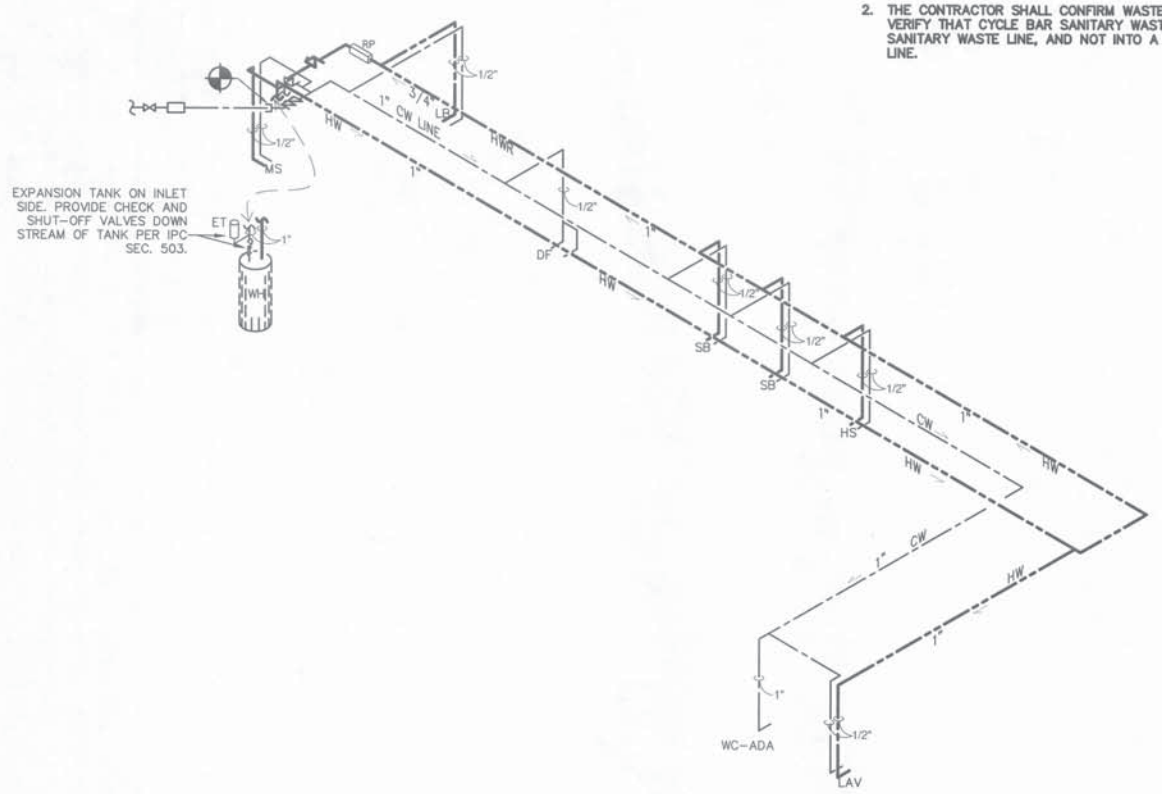
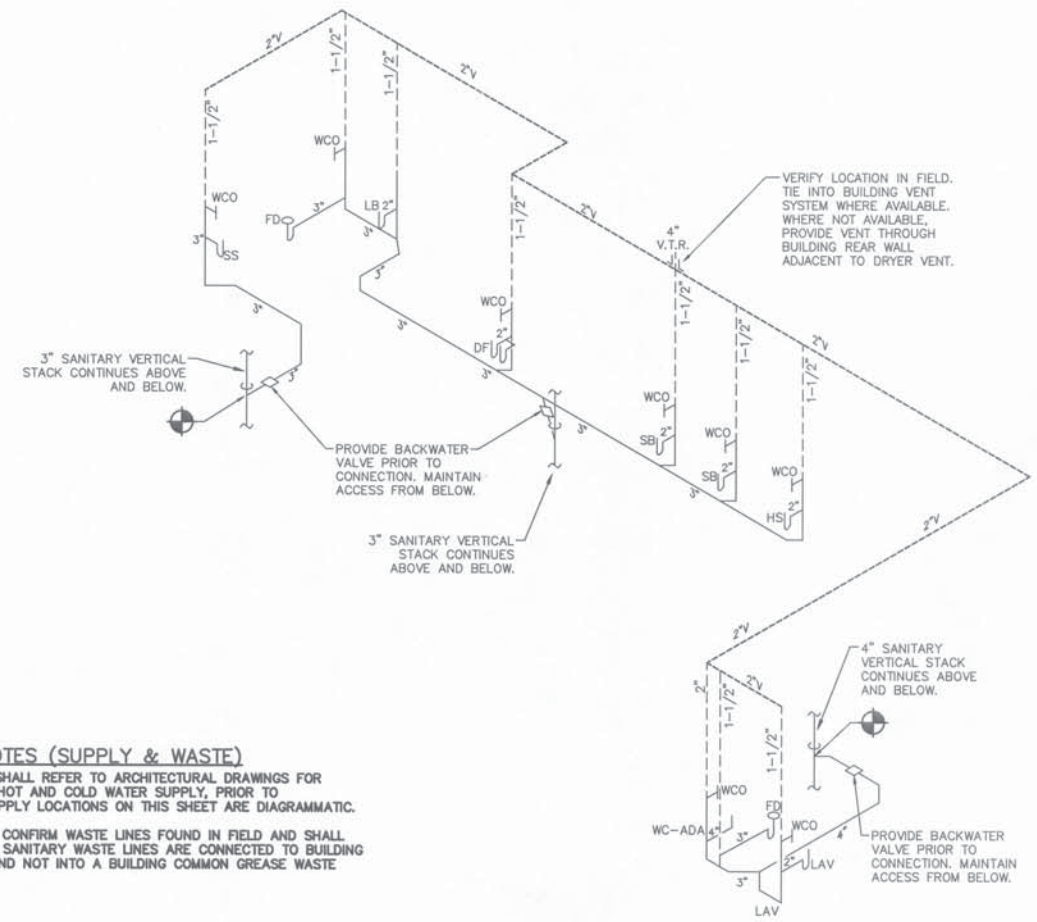


01 PLUMBING SUPPLY RISER
SCALE: NOT TO SCALE

ALL PLUMBING SUPPLY LINES SHALL BE 1/2" UNLESS INDICATED OTHERWISE.

PROVIDE TRAP PRIMERS ON ALL FIXTURES WHOSE TRAP SEALS ARE SUBJECT TO DRYING OUT.



02 PLUMBING WASTE RISER
SCALE: NOT TO SCALE

FIELD VERIFY LOCATION OF PLUMBING VTR, INSTALL AFTER ALL HVAC UNITS ARE IN PLACE TO ENSURE NO VENT IS WITHIN 10'-0" OF ANY FRESH AIR INTAKE AND THAT NO EXTRA / UNNECESSARY ROOF PENETRATIONS ARE MADE.

PLUMBING CONTRACTOR SHALL MAKE ADJUSTMENTS WHERE NECESSARY TO KEEP PLUMBING VENTS A MINIMUM OF 10'-0" AWAY FROM ALL FRESH AIR INTAKES. WAIT FOR FINAL HVAC UNIT LOCATIONS PRIOR TO CUTTING ROOF PENETRATIONS.

PLUMBING RISER NOTES (SUPPLY & WASTE)

1. PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR PLACEMENT OF SHOWER HOT AND COLD WATER SUPPLY, PRIOR TO INSTALLATION. WATER SUPPLY LOCATIONS ON THIS SHEET ARE DIAGRAMMATIC.
2. THE CONTRACTOR SHALL CONFIRM WASTE LINES FOUND IN FIELD AND SHALL VERIFY THAT CYCLE BAR SANITARY WASTE LINES ARE CONNECTED TO BUILDING SANITARY WASTE LINE, AND NOT INTO A BUILDING COMMON GREASE WASTE LINE.

Emerald City Engineers, Inc.
6505 216Th SW, Suite 200
Mountlake Terrace, WA 98133

Project Name: Mainstreet Lofts
Project Number: 2045-001
Edited By: BK
Edit Date: 3/21/14

SIZING IS PER CPC & APPENDIX A.

WATER SUPPLY PIPE SIZING CALCULATION FORM

AVAILABLE PRESSURE IS > 80 PSI.

SUPPLY WATER PRESSURE AFTER SUBMETER:	36	PSI STATIC PRESSURE	
STATIC LIFT:	5	FEET =	2.2 PSI
REQUIRED MINIMUM PRESSURE AT FURTHEST PLUMBING FIXTURE:	30	PSI	
PRESSURE AVAILABLE TO OFFSET FRICTION LOSSES:	3.8	PSI	
PIPING SYSTEM LENGTH FROM SERVICE TO FURTHEST FIXTURE:	30	FEET	
FITTING ALLOWANCE:	15	FEET	
MAXIMUM FRICTION LOSS FACTOR:	8.5	PSI/100 FT	
SELECTED FRICTION LOSS FACTOR:	8.5	PSI/100 FT	

MAX CW VELOCITY 8 FPS. MAX HW VELOCITY 5 FPS.

SUPPLY PIPE SIZING SCHEDULE — Copper Type: | PEX

	FLUSH TANK CW			HOT WATER			FLUSH VALVE CW		
PIPE SIZE	FLOW, GPM	VEL. FPS	FIXTURE UNITS	FLOW, GPM	VEL. FPS	FIXTURE UNITS	FLOW, GPM	VEL. FPS	FIXTURE UNITS
1/2"	3.0	4.6	3.5	3.0	4.6	3.5	---	---	---
3/4"	8.5	5.8	10.5	7.0	4.9	8.5	---	---	---
1"	17.5	7.0	25.0	12.2	5.0	16.0	---	---	---
1-1/4"	30.0	8.0	50.0	18.5	5.0	27.0	30.0	8.0	13.0
1-1/2"	43.0	8.0	100.0	26.0	5.0	43.0	42.5	8.0	30.0
2"	75.0	8.0	230.0	45.0	5.0	112.0	74.0	8.0	125.0
2-1/2"	116.0	8.0	440.0	72.0	5.0	215.0	116.0	8.0	340.0
3"	160.0	8.0	750.0	100.0	5.0	350.0	160.0	8.0	680.0
4"	280.0	8.0	1600.0	175.0	5.0	800.0	280.0	8.0	1600.0
6"	650.0	8.0	5250.0	400.0	5.0	2750.0	650.0	8.0	5250.0

03 WATER CALCULATIONS
SCALE: NOT TO SCALE

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PLUMBING RISERS
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ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT (U.N.O.)
$	SINGLE POLE SINGLE THROW TOGGLE SWITCH (NOTE L-1)	44"
$_3$/$_4$	THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH (NOTE L-1)	44"
$_M$	MOTOR RATED SWITCH	
⏚/⏚	DUPLEX / QUAD RECEPTACLE OUTLET (NOTE L-1)	24" TO CENTERLINE (U.N.O)
⏚/⏚	DUPLEX RECEPTACLE OUTLET, CEILING MOUNTED/FLOOR MOUNTED	
J/J	JUNCTION BOX, CEILING / FLOOR MOUNTED	SEE PLAN
T/T	TELEPHONE OUTLET, WALL MOUNTED / FLOOR MOUNTED	SEE PLAN
D/D	DATA OUTLET, WALL MOUNTED/FLOOR MOUNTED	SEE PLAN
20A/1P	CURRENT TRANSFORMER	
M	POWER METER AND SOCKET	
X-1,3,5	ARROWHEAD INDICATES HOMERUN. X-1,3,5 INDICATES HOMERUN TO PANEL X CIRCUIT NUMBERS 1,3, AND 5.	
	PANELBOARD – WALL MOUNTED (RECESSED/SURFACE MOUNTED)	
60/3/3R	NONFUSIBLE DISCONNECT SWITCH, RATING/POLES/NEMA ENCLOSURE	
T	THERMOSTAT, WALL MOUNTED	
N.I.C.	NOT IN CONTRACT	
NL	INDICATES 24-HOUR NIGHT LIGHT ON THE UNSWITCHED LEG OF LIGHT CIRCUIT.	

L-1 MOUNTING HEIGHTS NOTED ARE TO THE CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE (U.N.O.).
L-2 FIRE ALARM VISUAL DEVICES SHALL BE WALL-MOUNTED 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. AUDIBLE ONLY DEVICES SHALL BE WALL-MOUNTED AT NOT LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW CEILING.

* NOT ALL SYMBOLS USED ON ALL JOBS *

T-24 CONTROLLABLE OUTLET (LEVITON 5362-S2T) REQUIREMENT:

IN ALL BUILDINGS, BOTH CONTROLLED AND UNCONTROLLED 120V RECEPTACLES SHALL BE PROVIDED IN EACH PRIVATE OFFICE, OPEN OFFICE AREA, RECEPTION LOBBY, CONFERENCE ROOM, KITCHENETTE IN OFFICE SPACES, AND COPY ROOM. ADDITIONALLY, HOTEL/MOTEL GUEST ROOMS SHALL COMPLY WITH ITEM 5. CONTROLLED RECEPTACLES SHALL MEET THE FOLLOWINGS REQUIREMENTS, AS APPLICABLE:

1. ELECTRIC CIRCUITS SERVING CONTROLLED RECEPTACLES SHALL BE EQUIPPED WITH AUTOMATIC SHUT-OFF CONTROLS FOLLOWING THE REQUIREMENTS PRESCRIBED IN SECTION 130.1(c)(1-5).
2. AT LEAST ONE CONTROLLED RECEPTACLE SHALL BE INSTALLED WITHIN 6 FEET FROM EACH UNCONTROLLED RECEPTACLE OR A SPLITWIRED DUPLEX RECEPTACLE WITH ONE CONTROLLED AND ONE UNCONTROLLED RECEPTACLE SHALL BE INSTALLED.
3. CONTROLLED RECEPTACLES SHALL HAVE A PERMANENT MARKING TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.
4. FOR OPEN OFFICE AREAS, CONTROLLED CIRCUITS SHALL BE PROVIDED AND MARKED TO SUPPORT INSTALLATION AND CONFIGURATION OF OFFICE FURNITURE WITH RECEPTACLES THAT COMPLY WITH SECTION 130.5(d).
5. FOR HOTEL AND MOTEL GUEST ROOMS AT LEAST ONE-HALF OF THE 120V RECEPTACLES IN EACH GUEST ROOM SHALL BE CONTROLLED RECEPTACLES THAT COMPLY WITH SECTION 130.5(d)1, 2, AND 3. ELECTRIC CIRCUITS SERVING CONTROLLED RECEPTACLES SHALL HAVE CAPTIVE CARD KEY CONTROLS, OCCUPANCY SENSING CONTROLS, OR AUTOMATIC CONTROLS SUCH THAT, NO LONGER THAN 30 MINUTES AFTER THE GUEST ROOM HAS BEEN VACATED, POWER IS SWITCHED OFF.
6. PLUG-IN STRIPS AND OTHER PLUG-IN DEVICES THAT INCORPORATE AN OCCUPANCY SENSOR SHALL NOT BE USED TO COMPLY WITH THIS REQUIREMENT.

RCP LEGEND

- A — CEILING FLUSH MOUNT LIGHT: MANF: WAC LIGHTING MODEL #FM-4009-30-CH, 10W LED A120V
- B — WALL MOUNT LIGHT: MANF: CUSTOM LIGHT FIXTURE, 22W LED 120V. DAMP LABEL, MOUNT B/O 3'-8" AFF
- B2 — WALL MOUNT LIGHT: MANF: GEORGE KOVACS MODEL #P5044-840-L, 10W A120V MOUNT ABOVE MIRROR AT 84" AFF
- D — RECESSED CAN LIGHT (DAMP LABEL COMPATIBLE) MANF: JUNO, 5" IC 900 LUMEN LED DOWNLIGHT MODEL #SP2940363-27K-N-1
- COM — LED EMERGENCY EGRESS LIGHTING/SIGNAGE COMBO WITH 90 MINUTE BATTERY BACKUP MANF: BARRON EXTRONIX, – VLED-EL90 SERIES, MODEL #CMLED-U-BL-EL90
- E1 — LED EMERGENCY EGRESS LIGHTING WITH 90 MINUTE BATTERY BACKUP – MANF: BARRON EXTRONIX, – LED-EL90 SERIES, MODEL #LED-90-BL
- E2 — LED EMERGENCY EXIT SIGN WITH 90 MINUTE BATTERY BACKUP – ARROW DENOTES DIRECTIONAL SIGNAGE MANF: HUBBELL LIGHTING, – COMPASS SERIES, MODEL #CER
- E3 — LED EMERGENCY EXTERIOR EGRESS LIGHTING – CONNECTED TO EXIT SIGN BATTERY BACKUP– MANF: HUBBELL LIGHTING, – COMPASS SERIES, MODEL #CORD
- G — 2x4 RECESSED LED LUMINAIRE FIXTURE MANF: INDY LIGHTING MODEL #SZX4BL-39-30-U-WH-3
- L1 — DECORATIVE PENDANT LIGHT MANF: CUSTOM, AIRCRAFT CABLE SUSPENDED, 22W LED, 120/277V, DAMP LABEL, MOUNT SO B/O FIXTURE IS AT 9'-0" A.F.F.
- TRACK LIGHT SYSTEM: MANF: JUNO, TRAC-MASTER TRACK, & TRAC-LITES FIXTURES MODEL #T 4 OR 8 FT TRACKS BL, SP36475-35-K-F-BL FIXTURE HEADS, PAR20 LED 8W-10W A120V, BOT OF TRACK AT 108" AFF, 3 HEADS PER STATION AND AS SHOWN

* NOT ALL FIXTURES USED ON ALL JOBS *

CALIFORNIA NOTE:

AT TIME OF ORDER, CONTRACTOR SHALL ENSURE LED FIXTURES ARE PROVIDED WITH IN-LINE CURRENT LIMITER IN TRACK. PROVIDE ALL DIMMABLE-TYPE LAMPS.

GC TO RUN CAT 5 AND SPEAKER WIRE AND TERMINATE AT ENDS.

KEY NOTES BY SYMBOL '⬡'

1. PANEL 'LA'. PANEL SHALL BE FLUSH-MOUNTED, AND FACE OPEN INTO ROOM. FURROUT WALLS AS NECESSARY.
2. ONE EXISTING 2" CONDUIT TO EXISTING ELECTRICAL SERVICE/METERING EQUIPMENT, T.G.C. SHALL PROVIDE AND PULL CONDUCTORS.
3. ONE 1" PHONE LINE AND ONE DATA LINE TO THE PHONE BOARDS. VERIFY EXACT PLACEMENT WITH OWNER'S REP, AND FIELD VERIFY POINT OF CONNECTION TO LANDLORD'S DMARK.
4. ELECTRIC DRYER. PROVIDE (2)#10,#10G., 3/4"C, 30/2 RECEPTACLE
5. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS AND QUANTITY FOR ELECTRICAL AND BLOCKING/MOUNTING WITH SIGN PROVIDER AND PROVIDE AS NECESSARY PRIOR TO ROUGH-IN. CONTRACTOR SHALL FIELD VERIFY EXISTING SIGN CIRCUIT COMPLIES WITH ALL LOCAL AND NATIONAL CODES AND IS PROVIDED WITH ALL REQUIRED DISCONNECTING MEANS PER NEC. PROVIDE INTERIOR ACCESS PANELS FOR SIGN CIRCUIT AS NECESSARY.
6. 42"x16"x3/4" 'AC' GRADE PLYWOOD TELEPHONE BOARD. PROVIDE GROUND PER NEC. RUN 3/4" CONDUIT TO LANDLORD'S TELEPHONE CONNECTION POINT.
7. PROVIDE A REMOTE ANNUNCIATOR FOR DUCT SMOKE DETECTORS AT CEILING OF RECEPTION DESK. REMOTE ANNUNCIATOR SHALL BE EQUAL TO SYSTEM SENSOR RA100Z/RA100ZA WITH AUDIBLE AND VISUAL ANNUNCIATOR. LABEL EACH ANNUNCIATOR ACCORDING TO UNIT BEING MONITORED.
8. CIRCUIT RESTROOM/UTILITY ROOM EXHAUST FAN(S) TO LOCAL LIGHT SWITCH. PROVIDE 15-MINUTE DELAY TIMEOUT.
9. IF EXISTING WATER LINES ARE LOCATED ABOVE ELECTRICAL PANEL LOCATIONS SHOWN HERE, FABRICATE A LEAK SHIELD AROUND PIPES TO DIVERT FLOW AWAY FROM DRIPPING ONTO PANELS. USE A 4" PVC SLEEVE THAT STICKS OUT 6" BEYOND EDGES OF ELECTRICAL GEAR, OR SIMILAR. SLEEVE SHALL BE SEALED LONGITUDINALLY TO PREVENT PRESSURIZED SPRAY FROM REACHING EQUIPMENT BELOW AND OPEN ONLY ON THE TWO ENDS.
10. NOT USED.
11. FURROUT WALLS FOR POWER AND PLUMBING (SUPPLY, WASTE, AND VENT) LINES AS NECESSARY.
12. E.C. TO PROVIDE WHIP AT +24" AFF FOR QUAD OUTLET BOX SET INSIDE RECEPTION DESK. ROUTE CONDUIT UP TO NEAREST WALL, UP AND OVER TO PANEL. G.C. TO VERIFY OUTLET LOCATIONS AFTER MILLWORK INSTALL.
13. PLACE RECIRCULATION PUMP OUTLET/J-BOX ABOVE WATER HEATER IN UTILITY ROOM WHERE SPACE ALLOWS.
14. PROVIDE OCCUPANCY SENSOR PER SCHEDULE.
15. EXIT LIGHT SHALL BE CIRCUITED TO UNSWITCHED LEG OF LOCAL LIGHT CIRCUIT. PROVIDE CHEVRONS AS NEEDED.
16. EMERGENCY EGRESS LIGHT SHALL BE CIRCUITED TO UNSWITCHED LEG OF LOCAL LIGHT CIRCUIT.
17. T-24 COMPLIANT LIGHTING CONTROL PANEL (LEVITON EZ-MAX ROSSO-000 8-SPACE) TO BE ORDERED AS PART OF LIGHTING PACKAGE. WHERE EXTERIOR SIGNAGE IS ON LANDLORD'S LIGHTING CONTROL PANEL, INSTALL A 4-POLE LIGHTING CONTROL PANEL (RE48D-104).
18. TV QUAD RECEPTACLE AND DATA. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE.
19. PROVIDE (2) EMPTY CONDUIT WITH PULL STRING AT CASH WRAP FOR SPEAKER WIRE AND CAT 5 TO NEAREST WALL AT HEIGHT DETERMINED IN FIELD. FURROUT WALL AS NECESSARY, PAINT CONDUIT AS REQUIRED.
20. THIS OUTLET SHALL BE CONTROLLED THROUGH L.C.P.

GENERAL NOTES

A. LIGHTING SHALL BE CIRCUITED EXACTLY AS SHOWN ON PLANS.
B. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION AND QUANTITY OF LIGHTING FIXTURES.
C. EMERGENCY AND EXIT LIGHTS SHALL BE INSTALLED AND CIRCUITED PER THE LATEST NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES. ALL EMERGENCY AND EXIT FIXTURES SHALL BE DUAL VOLTAGE (120/277 VOLT INPUT) WITH 90 MINUTE BATTERY BACKUP.
D. ELECTRICAL SUB-CONTRACTOR IS RESPONSIBLE FOR ALL REFLECTED CEILING PLAN NOTES ON ARCHITECTURAL DRAWINGS.
E. ALL FLUORESCENT LIGHTING SHALL BE PROVIDED WITH INTEGRAL DISCONNECTING MEANS PER NEC.
F. EXTERIOR LIGHTS ARE EXISTING BY LANDLORD, TO REMAIN.
G. THE DIRECTION OF THE BUILDING OFFICIAL/QUANTITY, LOCATION AND TYPE OF EXIT/EGRESS LIGHTS REQUIRED SHALL TAKE PRECEDENCE OVER WHAT IS SHOWN IN THIS DOCUMENT SET.
H. ALL LIGHTS PROVIDED AND INSTALLED BY G.C., WITH THE EXCEPTION OF B, L1, AND T FIXTURES, WHICH ARE TO BE OWNER PROVIDED AND G.C. INSTALLED.
I. EMERGENCY/EGRESS AND EXIT LIGHTS SHALL BE ON A NON-SWITCHED LEG OF CIRCUIT.
J. PROVIDE CURRENT LIMITERS (IN-LINE) FOR TRACK LIGHTING AS NEEDED WHERE REQUIRED BY INSPECTOR TO ACHIEVE ENERGY CODE COMPLIANCE.
K. TRACK AND SCONCES DO NOT PROVIDE GENERAL LIGHTING AND THEREFOR ARE NOT REQUIRED TO BE CONTROLLED BY DAYLIGHT SENSORS. (T-24/CALIFORNIA)
L. DAYLIGHTING IS NOT REQUIRED WHEN A ZONE HAS LESS THAN 120 WATTS OF GENERAL LIGHTING, OR LESS THAN 24 SQ. FT. OF GLAZING. (T-24/CALIFORNIA)

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES / REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN, HAD AN EXAMINATION AND CODE REVIEW BEEN MADE, WILL NOT BE ALLOWED.

GENERAL NOTES

1. GENERAL RECEPTACLES INSTALLED AT +15" TO BOTTOM OF BOX A.F.F.
2. VERIFY GFI REQUIREMENTS PRIOR TO BID. ALL RECEPTACLES WITHIN 6'-0" OF A SINK OR WASH BASIN SHALL BE GFI RATED.
3. ALL COVER PLATES, OUTLETS AND SWITCHES IN THE PUBLIC AREA SHALL BE FACTORY BLACK. ALL OTHERS TO BE FACTORY BRIGHT WHITE.
4. SMOKE DETECTORS, FIRE ALARM SYSTEM, STROBES, HORNS, SPRINKLERS, ETC. SHALL BE DESIGNED AND INSTALLED WHERE REQUIRED BY A LICENSED FIRE SPRINKLER/ FIRE PROTECTION CONTRACTOR (DESIGN-BUILD) UNDER A SEPARATE PERMIT.
5. HVAC CONVENIENCE OUTLET(S) AND DISCONNECT(S) SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SIZE TO MATCH BREAKERS ON PANEL AND/OR NAMEPLATE.
6. DISCONNECT SHALL BE RATED FOR VOLTAGE OF ORIGINATING PANEL.

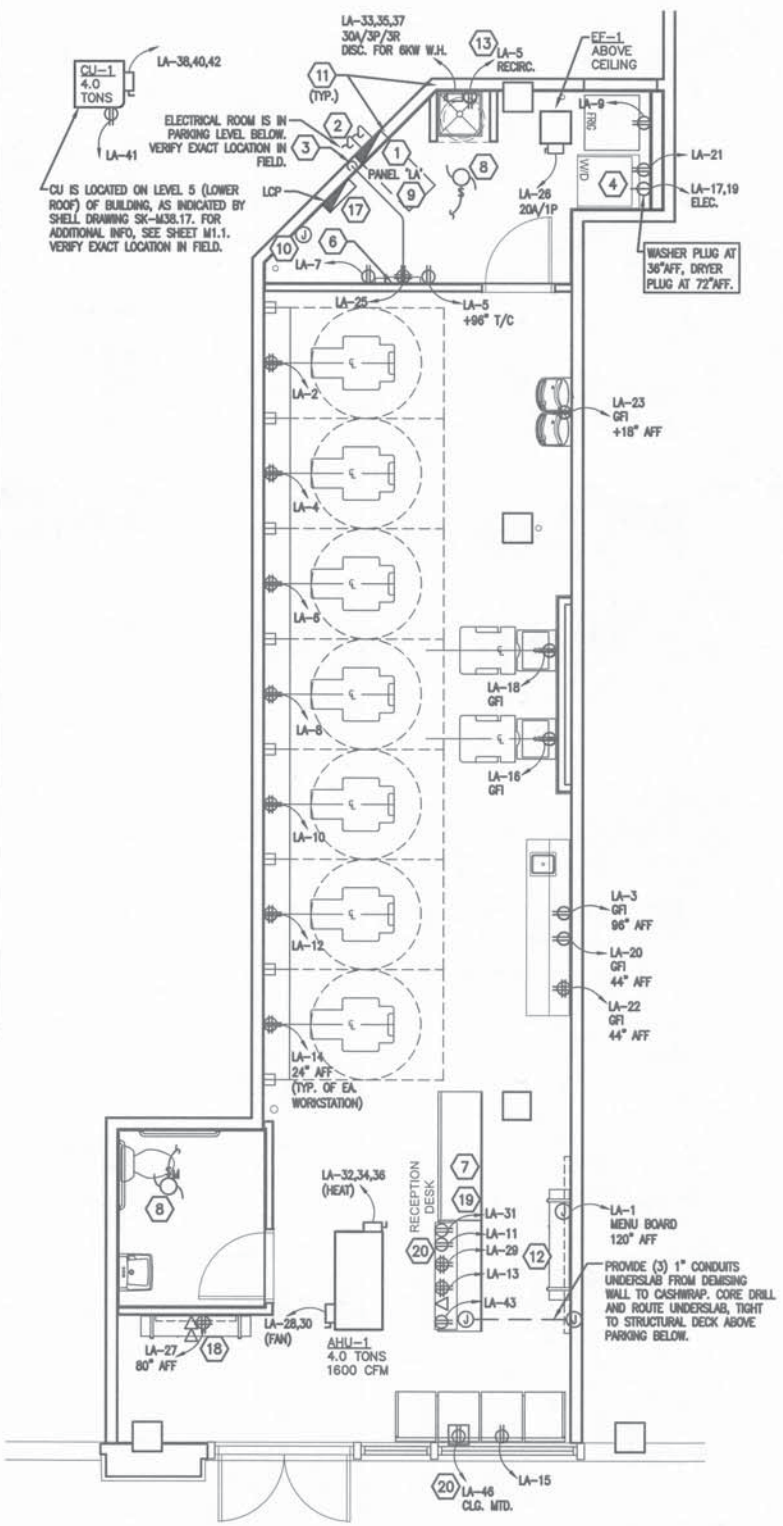
BISHOPS PROTOTYPICAL NOTE: JURISDICTIONS VARY AS TO WHO CAN MAKE FINAL CONNECTION OF SIGN TO BUILDING POWER. SOME JURISDICTIONS REQUIRE SPECIAL SIGN PERMITS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN ACCESSIBLE J-BOX AT BUILDING PERIMETER FOR EACH SIGN LOCATION ON ALL JOBS WITH MEANS OF DISCONNECT AND CONDUCTOR BACK TO THE PANEL, PER NEC. THE SIGN CONTRACTOR SHALL PROVIDE ALL SIGNS WITH A SINGLE WHIP POKING THROUGH THE BACK OF THE SIGN OR SIGN RACEWAY FOR EACH SIGN LOCATION. FINAL CONNECTION (INCLUDING ANY CONDUIT ABOVE METAL AWNING/ STRUCTURE OR OTHER SPECIAL 'GAP' SITE CONDITIONS) SHALL BE BY ELECTRICAL CONTRACTOR UNLESS THE A.H.J. REQUIRES THIS CONNECTION TO BE BY THE SIGN CONTRACTOR.

CUPERTINO, CA NOTE:

ALL ELECTRICAL OUTLET SWITCHES IN DEMISING WALL SHALL BE INSTALLED WITH FIRE RATED PUTTY, TO MAINTAIN FIRE RATING OF WALL, PER ARCHITECTURAL SHEETS. PUTTY SHALL BE HILTI OR EQUAL.

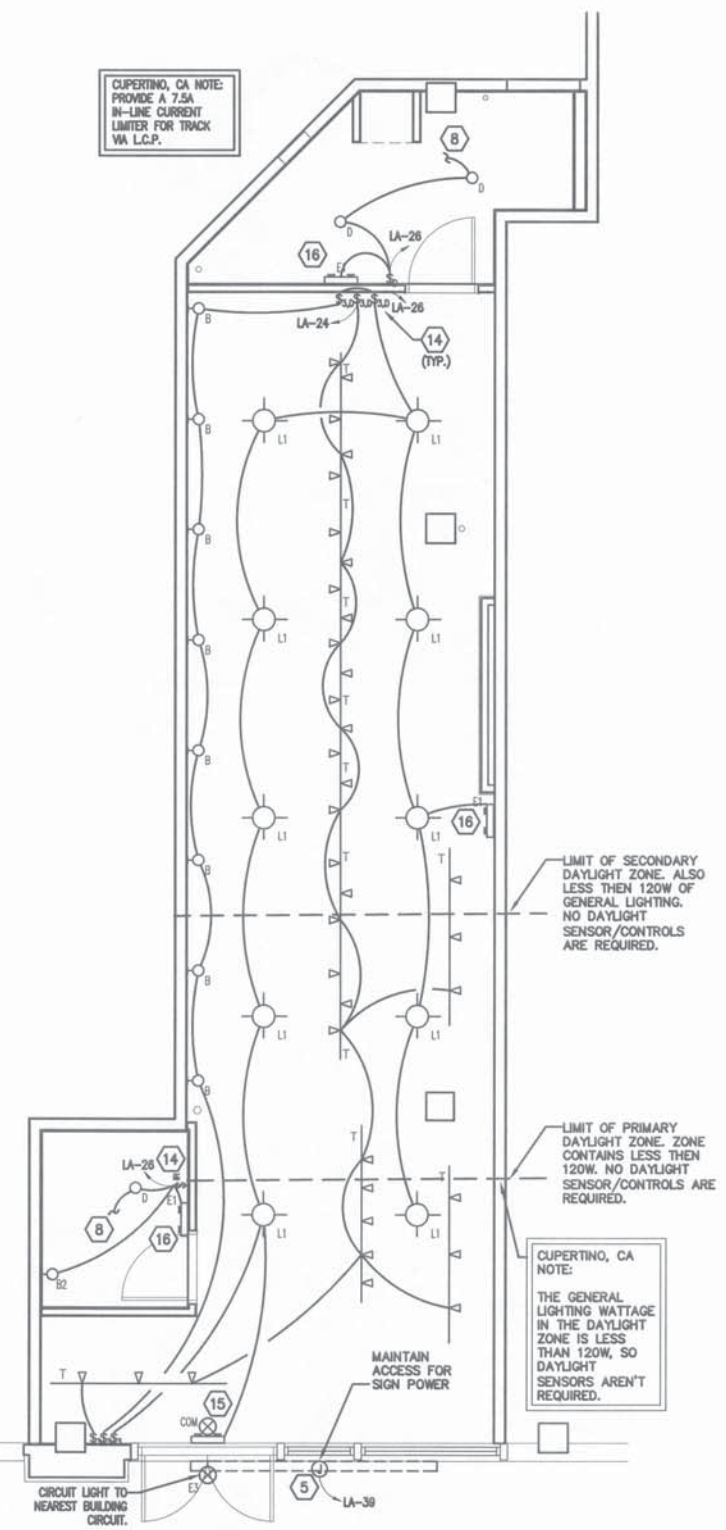
CUPERTINO, CA NOTE:

THIS FIRST GENERATION TENANT SPACE IS ON THE FIRST FLOOR OF A MULTI-STORY MIXED USE BUILDING.



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

CUPERTINO, CA NOTE: PROVIDE A 7.5A IN-LINE CURRENT LIMITER FOR TRACK VIA L.C.P.



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

GHA
Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH E 19072 ELECTRICAL 10/26/17

BISHOPS

BISHOPS – TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS-NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

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ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
E1.0
ELECTRICAL PLANS
DATE OF THIS PRINTING – 10/26/17

PANELBOARD SCHEDULE - 'LA' (NEW)

MAIN: 200A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: RECESSED | AIC: 42KAIC

CKT #	TRIP POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	MENU BOARD										0.4						WORKSTATION	20/1	2
3	20/1	BRANDED LIGHT BOX REC.		0.2								0.4						WORKSTATION	20/1	4
5	20/1	TIME CLOCK/RECIRC. PUMP							0.4			0.4						WORKSTATION	20/1	6
7	20/1	DESK RECEPTACLE		0.2								0.4						WORKSTATION	20/1	8
9	20/1	REFRIGERATOR							0.5			0.4						WORKSTATION	20/1	10
11	20/1	T-24 CONTROLLABLE RECEP		0.2								0.4						WORKSTATION	20/1	12
13	20/1	POS				0.4						0.4						WORKSTATION	20/1	14
15	20/1	CONV. REC.				0.5						0.5						SHAMPOO STATION (GFI)	20/1	16
17	30/2	DRYER (ELEC)							2.5			0.5						SHAMPOO STATION (GFI)	20/1	18
19	-	-							2.5			0.2						COUNTERTOP REC.	20/1	20
21	20/1	WASHING MACHINE				1.0						0.4						TOWEL WARMER	20/1	22
23	20/1	DRINKING FOUNTAIN				0.2					1.0							LIGHTING (TRACK LIGHT)	20/1	24
25	20/1	PHONE BOARD				0.4					1.0							LIGHTING, EF-1	20/1	26
27	20/1	TV RECEPTACLE		0.4										0.9				AHU-1 (FAN+HEAT)	30/2	28
29	20/1	CASH WRAP (QUAD)		0.4										0.9				(4 KW NON COINC.)	-	30
31	20/1	CASH WRAP (DUPLEX)		0.2														SPARE	20/1	32
33	25/3	WATER HEATER							1.5									SPARE	20/1	34
35	-	-							3.0									SPARE	20/1	36
37	-	-							1.5					2.1				CU-1	30/3	38
39	20/1	SIGN (LED)	0.2											2.1				-	-	40
41	20/1	HVAC OUTLETS(WP/WR)		0.2										2.1				-	-	42
43	20/1	CONTROLLABLE OUTLET		0.2														SPARE	20/1	44
45	20/1	SPARE										0.2						S/W REC / LED OPEN SIGN	20/1	46
47	20/1	SPARE																SPARE	20/1	48
49	20/1	SPARE																SPARE	20/1	50
51	20/1	SPARE																SPARE	20/1	52
53	20/1	SPARE																SPARE	20/1	54
LIGHTING (KVA):		2.2	0.2	1.8	0.0	2.5	0.0	0.0	11.8		2.0	4.2	0.0	8.1	0.0	0.0	0.0	CONNECTED LOAD (KVA):	30.6	

RECEPTACLES (KVA):	6.0			DEMAND LOAD (KVA):	30.6
MOTORS (KVA):	0.0	PHASE A	10	80.2	
A/C (KVA):	10.6	PHASE B	9	75.2	CONNECTED LOAD (AMPS): 85.0
HEATING (KVA):	0.0	PHASE C	12	100.0	DEMAND LOAD (AMPS): 85.0
KITCHEN (KVA):	0.0		KVA	AMPS	
MISCELLANEOUS (KVA):	11.8				AMPACITY REQUIRED: 86.6

NOTES: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
a - PROVIDE 'HACR' TYPE CIRCUIT BREAKER

*BALANCE ALL PANELS TO WITHIN 10%.

AMPACITY REQD CALCS

LIGHTING		2.20	KVA X	125 %	=	2.8 KVA
RECEPTACLE	TOTAL	6.04	KVA			
	1ST	10.00	KVA X	100 %	=	6.0 KVA
	REMAIN	0.00	KVA X	50 %	=	0.0 KVA
MOTORS	TOTAL	0.00	KVA X	100 %		
	LARGEST	____	KVA X	125 %	=	0.0 KVA
	REMAIN	0.00	KVA X	100 %	=	0.0 KVA
A/C		10.56	KVA X	100 %	=	10.6 KVA
HEATING		0.00	KVA X	100 %	=	0.0 KVA
LOCKED-OUT LOAD		____	KVA X	100 %	=	0.0 KVA
KITCHEN		0.00	KVA X	65 %	=	0.0 KVA
MISCELLANEOUS		11.84	KVA X	100 %	=	11.8 KVA
TOTAL					=	31.2 KVA

01 PANEL SCHEDULES
SCALE: NOT TO SCALE

BISHOPS – CUPERTINO, CA NOTE:

THE BASE BUILDING HAS 480V SERVICE, BUT THE RETAIL METERING CENTER IS ALREADY STEPPED DOWN TO 208V. THUS THIS SHEET CALLS FOR EXISTING 120/208V, 3φ, 4 W ELECTRICAL SERVICE.

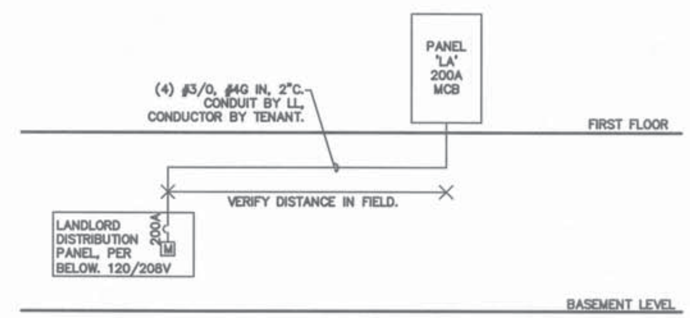
CUPERTINO, CA NOTE:

THE SPACE IS LESS THAN 10,000 SQ. FT. A DEMAND RESPONSIVE SYSTEM IS NOT REQUIRED.

SENSOR/ACCESSORY SCHEDULE

DESCRIPTION	SYMBOL	MODEL NUMBER	UNOBSTRUCTED RATED COVERAGE	MOUNTING	WATTAGE/ VOLTAGE	TIME DELAY	NOTES
PASSIVE INFRARED SWITCH	$\$_{IR}$	WATTSTOPPER DW-100 (OR EQUAL)	300 SF	WALL	800W/120V 1200W/277V	5/15/30 MIN	1
PROVAULT CEILING SENSOR	CS	LEVITON 06C04-IDW	---	CEILING	–	–	1,3
LOW VOLTAGE DIMMER	$\$_D$	LEVITON DSE 06-10Z	---	WALL	LOW	–	PENDANT LIGHTS
LINE VOLTAGE DIMMER	$\$_D$	LEVITON DSM 10-1LZ	---	WALL	LINE	–	TRACK LIGHTS AND SCONCES, RESTROOM

NOTES:
1. SENSOR REQUIRES POWER PACK (INSTALL IN ACCESSIBLE LOCATION)
2. SWIVEL MOUNTING BRACKET INCLUDED.
3. DUAL ZONE DAYLIGHT SENSING TYPE, ALSO SENSES OCCUPANCY/VACANCY



LIGHTING CONTROL PANEL ZONES

1. TRACK
2. 110V SOURCES
3. LOW VOLTAGE PENDANT/ MS
4. CONTROLLABLE OUTLET
5. SIGN
6. S/W RECEPTACLE #1
7. SPARE
8. SPARE

*WHEN BUILDING SIGN POWER IS ROUTED THROUGH LANDLORD'S CONTROL SYSTEM, AND SHOW WINDOW RECEPTACLES ARE NOT REQUIRED, AND THE CLIENT DOES NOT WANT ANY SPARE CIRCUITS ON THE CONTROL PANEL, THEN A 4-POLE LCP MAY BE USED (RE4BD-104).

PROVIDE PHOTOCELL INPUT TO SIGNAL FOR SIGN CIRCUIT AND S/W CIRCUIT TO ENERGIZE AND DEENERGIZE, WHERE REQUIRED BY A.H.J. PHOTOCELL IS NOT REQUIRED WHEN TIME CLOCK IS ASTRONOMICAL TYPE.

LIGHTING CONTROL PANEL SPECIFICATION:

MANUF.	MODEL	NOTES
LEVITON	EZ-MAX RO8BD-000	8-SPACE, CONTROLS LOW AND LINE VOLTAGE CIRCUITS. LCP CONTAINS AN INTEGRAL TIME CLOCK

BISHOPS – CUPERTINO, CA NOTE:

THE CONTRACTOR SHALL PROVIDE FOR CONSIDERATION TO THE TENANT A LINE-ITEM BID (DEDUCT) TO INSTALL A 100A SERVICE (#1 CONDUCTORS AND 100A MCB PANEL.

TITLE 24 NOTE:
INDOOR LIGHTING CONTROLS SHALL BE INSTALLED IN COMPLIANCE WITH TITLE 24, PART 6, SECTION 130.1.

A. ALL LUMINARIES SHALL BE FUNCTIONALLY CONTROLLED WITH MANUALLY SWITCHED ON AND OFF LIGHTING CONTROLS. CONTROLS SHALL BE READILY ACCESSIBLE, AND OPERATED WITH A MANUAL SWITCH THAT IS LOCATED IN THE SAME ROOM OR AREA WITH THE LIGHTING THAT IS CONTROLLED BY THAT LIGHTING CONTROL. DIMMING SWITCHES SHALL ALLOW A MANUAL ON-OFF FUNCTIONALITY AND AND IS CAPABLE OF MANUALLY CONTROLLING LIGHTING THROUGH ALL LIGHTING CONTROL STEPS THAT ARE REQUIRED IN SECTION 130.1(B).

B. MULTI-LEVEL LIGHTING CONTROLS. THE GENERAL LIGHTING OF ANY ENCLOSED AREA 100 SQ. FT. OR LARGER, WITH A CONNECTED LIGHTING LOAD THAT EXCEEDS 0.5 WATTS PER SQUARE FOOT SHALL MEET THE FOLLOWING REQUIREMENTS:

1. LIGHTING SHALL HAVE THE REQUIRED NUMBER OF CONTROL STEPS AND MEET THE UNIFORMITY REQUIREMENTS IN ACCORDANCE WITH TABLE 1301-A AND

2. MULTI-LEVEL LIGHTING CONTROLS SHALL NOT OVERRIDE THE FUNCTIONALITY OF OTHER LIGHTING CONTROLS REQUIRED FOR COMPLIANCE WITH SECTIONS 130.1(A), AND (C) THROUGH (E) AND

3. EACH LUMINAIRE SHALL BE CONTROLLED BY AT LEAST ONE OF THE FOLLOWING METHODS.

A. MANUAL DIMMING MEETING THE APPLICABLE REQUIREMENTS OF SECTION 130.1(A)

B. LUMEN MAINTENANCE AS DEFINED IN SECTION 100.1

C. TUNING AS DEFINED IN SECTION 100.1

D. AUTOMATIC DAYLIGHTING CONTROLS IN ACCORDANCE WITH SECTION 130.1(D)

E. DEMAND RESPONSIVE LIGHTING CONTROLS IN ACCORDANCE WITH SECTION 130.1(E)

C. IN ADDITIONAL TO LIGHTING CONTROLS INSTALLED TO COMPLY WITH SECTIONS 130.1(A) AND (B), ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS THAT MEET THE FOLLOWING REQUIREMENTS:

A. SHALL BE CONTROLLED WITH AN OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, SIGNAL FROM ANOTHER BUILDING SYSTEM, OR OTHER CONTROL CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL OF THE LIGHTING WHEN TEH SPACE IS TYPICALLY UNOCCUPIED; AND
B. SEPARATE-CONTROLS FOR THE LIGHTING ON EACH FLOOR;, AND
C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY A CEILING HEIGHT PARTITION NOT EXCEEDING 5000 SQ. FT. (MALLS 20,000 SQ. FT.), [EXCEPTIONS FOR 24/365 FACILITIES, EQUIPMENT ROOMS, ETC.]; AND
D. SEPARATE CONTROLS FOR GENERAL, DISPLAY, ORNAMENTAL, AND DISPLAY CASE LIGHTING.

D. DAYLIGHT ZONES ARE REQUIRED. (SEE T-24 FOR ADDITIONAL INFORMATION)

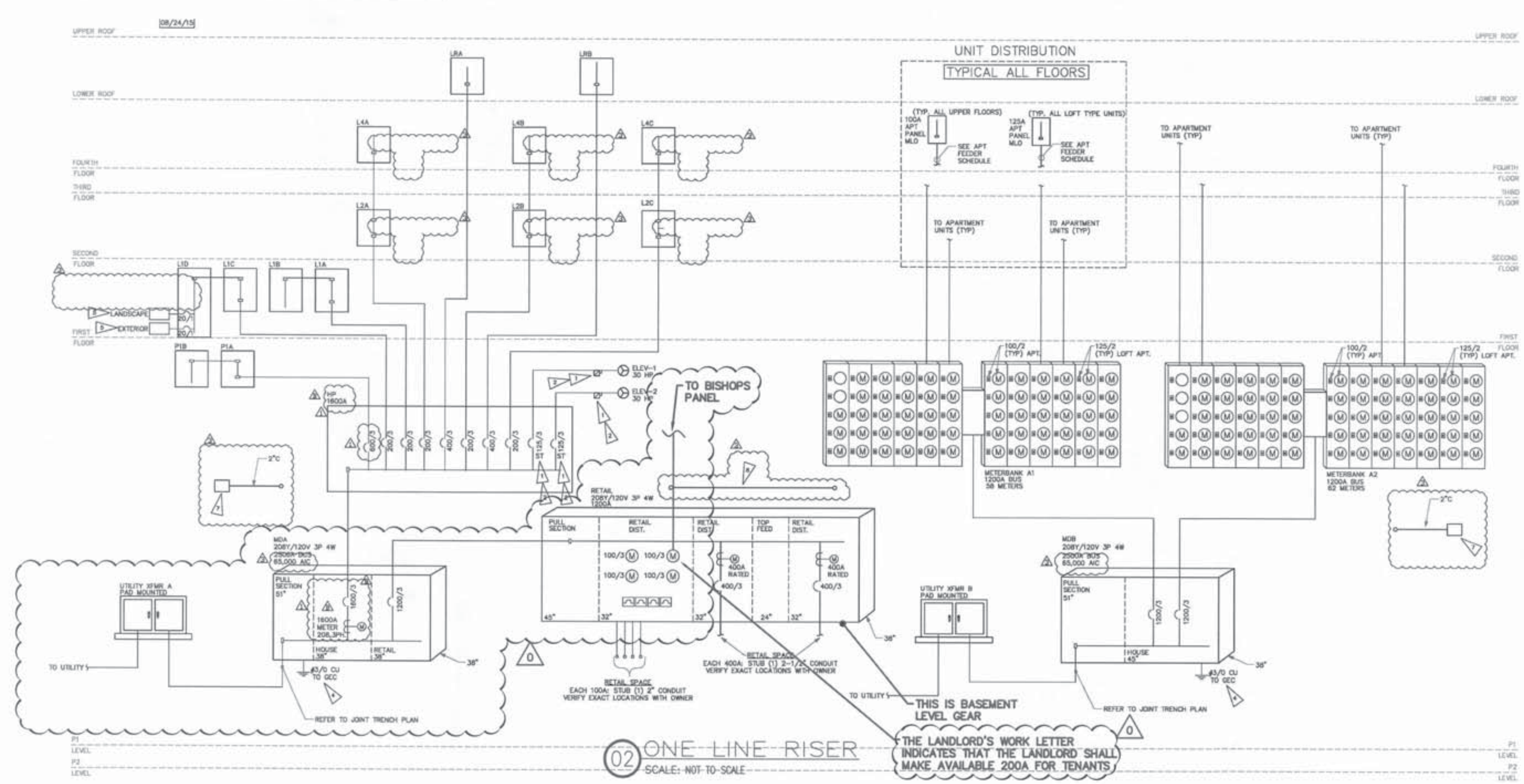
E. DEMAND RESPONSIVE CONTROLS.

LIGHTING POWER IN BUILDINGS LARGER THAN 10,000 SQ. FT. SHALL BE CAPABLE OF BEING AUTOMATICALLY REDUCED IN RESPONSE TO A DEMAND RESPONSE SIGNAL; SO THAT THE BUILDING'S TOTAL LIGHTING POWER CAN BE LOWERED BY A MINIMUM OF 15 PERCENT BELOW THE TOTAL INSTALLED LIGHTING POWER. LIGHTING SHALL BE REDUCED IN A MANNER CONSISTENT WITH UNIFORM LEVEL OF ILLUMINATION REQUIREMENTS IN TABLE 130.1-A.

THE ABOVE REQUIRES AN AUTOMATED LIGHTING CONTROL SYSTEM IN WHICH ALL REQUIRED CIRCUITS ARE ROUTED THROUGH THE CONTROLLER.

AND... ALL LIGHT FIXTURES SHALL BE COMPATIBLE WITH SAID CONTROLLER.

A LIGHTING CONTROL SYSTEM SHALL BE AS SPECIFIED IN THE LIGHTING CONTROL PANEL SCHEDULE. IT IS RECOMMENDED THAT LIGHT FIXTURES AND LIGHTING CONTROL PANEL BE FROM A SINGLE VENDOR THAT VERIFIES COMPATIBILITY OF ALL COMPONENTS AND OFFERS COMMISSIONING OF THE BUILT SYSTEM.



02 ONE LINE RISER
SCALE: NOT TO SCALE

GHA
Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254
Ph: (972) 239-8884
Fax: (972) 239-5054

REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH E 19072 ELECTRICAL STATE OF CALIFORNIA 10/26/17

BISHOPS
BISHOPS – TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS-NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

ISSUE

Peter A. Leptuch, P.E.
CA-M35700/CA-E19072
1236 Golden Eagle Ct.
Aubrey, TX 76227
(940) 735-5127

ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER C170339

SHEET NUMBER E2.0
ELECTRICAL PANELS AND RISER
DATE OF THIS PRINTING – 10/26/17

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECNRCC-LTI-01-E (Revised 08/16)) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Bishops	Date Prepared: 10/23/2017

A. General Information

Climate Zone: 4	Conditioned Floor Area: 937						
	Unconditioned Floor Area: 0						
Building Type:	☑	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel	
☐ Schools	☐	Relocatable Public Schools	☑	Conditioned Spaces	☐	Unconditioned Spaces	
Phase of Construction:	☐	New Construction	☐	Addition	☑	Alteration	
Method of Compliance:	☐	Complete Building	☑	Area Category	☐	Tailored	

Project Address: 19540 Vallco Parkway, Suite 100

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC	TITLE
☑	☐	NRCC-LTI-01-E	Certificate of Compliance. **All** Pages required on plans for all submittals.
☑	☐	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
☑	☐	NRCC-LTI-03-E	Indoor Lighting Power Allowance
☐	☑	NRCC-LTI-04-E	Tailored Method Worksheets
☑	☐	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
☐	☐	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECNRCC-LTI-01-E (Revised 08/16)) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Bishops	Date Prepared: 10/23/2017

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance.

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	1,231	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	0
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	1,231	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY **If Installed ≤ Allowed** (Box 04 < Box 05)			Complies ONLY **If Installed ≤ Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		1,409	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		0

D. Declaration of Required Certificates of Installation

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

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

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECNRCC-LTI-01-E (Revised 08/16)) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Bishops	Date Prepared: 10/23/2017

E. Declaration of Required Certificates of Acceptance

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

YES	NO	Compliance Document/Title	
☐	☑	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
☐	☑	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
☐	☑	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
☐	☑	NRCA-LTI-05-A – Must be submitted for institutional tuning power adjustment factor (PAF).	☐ Field Inspector

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

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

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

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECNRCC-LTI-01-E (Revised 08/16)) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: Bishops	Date Prepared: 10/23/2017

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- ☐ 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 document.
- ☐ 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 traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²							Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (602 x 603)	Square Feet of this office	Watts per square foot (604 / 605)	If 606 ≤ 0.3, enter zero; if 606 > 0.3, (606-0.3)	(605 x 607)	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECNRCC-LTI-01-E (Revised 08/16)) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Bishops	Date Prepared: 10/23/2017

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**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector[1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, HF278, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NRR	How wattage was determined: According to §130.0(c)	Number Luminaires	Total installed Watts in this area (=03 x 06)	Primary Function area in which these luminaires are installed	Pass	Fail
A	10 W LED	10.0	☑	☐	2	20	Janitors Closet/Utility	☐	☐
B	22W LED	22.0	☑	☐	8	176	Beauty Salon	☐	☐
B2	14.6 W LED	14.6	☑	☐	1	15	Janitors Closet/Utility	☐	☐
D	10W LED	0.0	☐	☑	1	0	Janitors Closet/Utility	☐	☐
L1	L1 - 22W LED	22.0	☑	☐	10	220	Beauty Salon	☐	☐
T	12.5w per ft Track Light (with Current Limiter)	12.5	☑	☐	64	800	Beauty Salon	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
				INSTALLED WATTS PAGE TOTAL:		1,231	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
(SECNRCC-LTI-01-E (Revised 08/16)) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Bishops	Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Peter A. Leptuch	Documentation Author Signature:	
Company:	Peter A. Leptuch, P.E.	Signature Date:	10/23/2017
Address:	1236 Golden Eagle Court	CEA Certification Identification (if applicable):	
City/State/Zip:	Aubrey, TX 76227	Phone:	(940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	Peter A. Leptuch	Responsible Designer Signature:	
Company:	Peter A. Leptuch, P.E.	Date Signed:	10/23/2017
Address:	1236 Golden Eagle Court	License:	E19072
City/State/Zip:	Aubrey, TX 76227	Phone:	(940) 735-5127

GHA
Architecture / Development
14901 Quorum Drive
Suite 300
Dallas Texas 75254

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Fax: (972) 239-5054

REGISTERED PROFESSIONAL ENGINEER
PETER A. LEPTUCH
E 19072
ELECTRICAL
STATE OF TEXAS
10/26/17

BISHOPS – TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
ALL EXISTING CONDITIONS AND
DIMENSIONS–NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

NO | REVISION

ISSUE

Peter A. Leptuch, P.E.
CA–M35700/CA–E19072
1236 Golden Eagle Ct.
Aubrey, TX 76227
(940) 735–5127

REGISTERED PROFESSIONAL ENGINEER
PETER A. LEPTUCH
Engineering & Consulting Services

ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
C170339

SHEET NUMBER
E3.0
ELECTRICAL
TITLE 24
DATE OF THIS PRINTING – 10/26/17

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Bishops	Date Prepared: 10/23/2017

A. 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 110.9.
☐	☑	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☑	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 installed 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(a)4.
☐	☑	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 daylit 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 operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Bishops	Date Prepared: 10/23/2017

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

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter "E" if Exempted)							PAF Credit Calculation [2]				Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ if Acceptance Test Required	Pass	Fail
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
Control Credit PAGE TOTAL (Sum of Column 13):												0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):												0			
												Enter Control Credit total into NRCC-LTI-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(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
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.

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Bishops	Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Peter A. Leptuch	Documentation Author Signature: [signature]
Company: Peter A. Leptuch, P.E.	Signature Date: 10/23/2017
Address: 1236 Golden Eagle Court	CEA Certification Identification (if applicable):
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name: Peter A. Leptuch	Responsible Designer Signature: [signature]
Company: Peter A. Leptuch, P.E.	Date Signed: 10/23/2017
Address: 1236 Golden Eagle Court	License: E19072
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

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)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		1,409
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		1,409

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft^2	x	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	Watts
Total from section C-2.	1,409
Total from section C-3.	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	1,409
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

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 G of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01 AREA CATEGORY (From §140.6 Table 140.6-C)		02		03		04
Location in Building	Primary Function Area per Table 140.6-C	WATTS PER ft^2	x	AREA (ft^2)	=	ALLOWED WATTS
Restrooms / Utility Room	Janitors Closet/Utility	0.60		167		100
Retail	Beauty Salon	1.70		770		1,309
				TOTALS 937		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						1,409 WATTS

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

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)

01	02	03 [2]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06
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-C, 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.

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REGISTERED PROFESSIONAL ENGINEER PETER A. LEPTUCH E 19072 ELECTRICAL STATE OF CALIFORNIA 10/26/17

BISHOPS

BISHOPS – TENANT FINISHOUT
MAIN STREET CUPERTINO
19540 VALLCO PARKWAY
SUITE 100
CUPERTINO, CA 95014

DO NOT SCALE DRAWINGS CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS–NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NO | REVISION

ISSUE

Peter A. Leptuch, P.E.
CA-M35700/CA-E19072
1236 Golden Eagle Ct.
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ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER C170339

SHEET NUMBER E3.1

ELECTRICAL TITLE 24

DATE OF THIS PRINTING – 10/26/17

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Bishops	Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Peter A. Leptuch	Documentation Author Signature: [signature]
Company: Peter A. Leptuch, P.E.	Signature Date: 10/23/2017
Address: 1236 Golden Eagle Court	CEA Certification Identification (if applicable):
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name: Peter A. Leptuch	Responsible Designer Signature: [signature]
Company: Peter A. Leptuch, P.E.	Date Signed: 10/23/2017
Address: 1236 Golden Eagle Court	License: E19072
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

STATE OF CALIFORNIA
LINE-VOLTAGE TRACK LIGHTING WORKSHEET
CEC-NRCC-LTI-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-05-E
Indoor Lighting – Line-Voltage Track Lighting Worksheet	(Page 1 of 2)
Project Name: Bishops	Date Prepared: 10/23/2017

There are four different methods available for determining how many watts of line-voltage track, or line-voltage busway, has been installed. One or more methods may be used to determine how many watts of line-voltage track, or line-voltage busway, has been installed. Use this worksheet to separately calculate the input wattage for each system.

Separately enter each row of this worksheet into the Luminaire Schedule in Section H of NRCC-LTI-01-E

Method 1 is the only option available for determining wattage for track or busway rated for more than 20 amperes

☐ A. METHOD 1 – VOLT-AMPERE (VA) RATING OF THE BRANCH CIRCUIT(S)

01	02
BRANCH CIRCUIT NAME OR ID	VOLT-AMPERE (VA) RATING OF THE BRANCH CIRCUIT

☐ B. METHOD 2 – USE THE HIGHER OF 45 WATTS PER LINEAR FOOT OF TRACK OR TOTAL RATED WATTAGE OF ALL LUMINAIRES

01	02	03	04	05	06
Track or Name #	Linear Feet of Track	(W/LF)	002 x 003 (W)	Total Rated Wattage of All Luminaires	Larger of 004 or 005
		45			
		45			
		45			

☐ C. METHOD 3 – USE THE HIGHER OF: 12.5 WATTS / LINEAR FOOT OF TRACK – OR VA RATING OF INTEGRAL CURRENT LIMITER

☐ Only integral current limiters which are certified to the Energy Commission shall be recognized by the Standards.
☐ This method shall not be recognized if an Installation Certificate is not submitted.

01	02	03	04	05	06
Track or Name #	Linear Feet of Track	(W/LF)	C02 x C03 (W)	VA Rating of Integral Current Limiter	Larger of C04 or C05
LA-24	64	12.5	800	900	900
		12.5			
		12.5			

☐ D. METHOD 4 - DEDICATED TRACK LIGHTING SUPPLEMENTARY OVERCURRENT PROTECTION PANEL

☐ This method shall not be recognized if an Installation Certificate is not submitted.
☐ This method shall be used only for line-voltage track lighting, and shall not be recognized for any other lighting systems. If any other lighting systems or devices are installed, the supplementary overcurrent protection panel shall not be recognized for compliance with the Standards.

01	02	03	04
Name or ID	Voltage of the Branch Circuit	Sum of the Ampere Rating of all Devices Installed in the Panel	Wattage = Sum of the Ampere Ratings of all of the Devices Times the Branch Circuit Voltage (D02 x D03)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

STATE OF CALIFORNIA
LINE-VOLTAGE TRACK LIGHTING WORKSHEET
CEC-NRCC-LTI-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-05-E
Indoor Lighting – Line-Voltage Track Lighting Worksheet	(Page 2 of 2)
Project Name: Bishops	Date Prepared: 10/23/2017

1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Peter A. Leptuch	Documentation Author Signature: [signature]
Company: Peter A. Leptuch, P.E.	Signature Date: 10/23/2017
Address: 1236 Golden Eagle Court	CEA Certification Identification (if applicable):
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

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Responsible Designer Name: Peter A. Leptuch	Responsible Designer Signature: [signature]
Company: Peter A. Leptuch, P.E.	Date Signed: 10/23/2017
Address: 1236 Golden Eagle Court	License: E19072
City/State/Zip: Aubrey, TX 76227	Phone: (940) 735-5127

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 1 of 5)
Project Name: Bishops	Date Prepared: 10/23/2017

A. General Information

Project Address: 19540 Vallco Parkway, Suite 100 Cupertino, CA 95014

Location of Sign	☐ Outdoor Signs	☐ Indoor Signs	
Phase of Sign Construction	☐ New Signs	☐ Sign Alterations	
Type of Lighting Control	☒ New Lighting Controls	☒ Replaced Lighting Controls	☐ Not Installing Lighting Controls

This Certificate of Compliance includes the following components (check all that apply):
☒ Mandatory Measures (Lighting Controls) ☐ Maximum Allowed Lighting Power ☐ Specific Lighting Sources

1. Mandatory Sign Lighting Controls

NOTES:
1. *The same responsible person may install both the sign lighting power and the sign lighting controls, or a different responsible person may install the sign lighting controls than the responsible person installing the sign lighting power.*
2. *The Mandatory Measures (sign lighting controls) are required for compliance with the sign lighting Standards. If the person responsible for installing the sign lighting power is not also responsible for the sign lighting controls, then the owner of the sign, general contractor, or architect shall be responsible to have the sign lighting controls installed.*
3. *If more than one person has responsibility for compliance, each responsible person shall prepare and sign a Certificate of Compliance and an Installation Certificate applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Certificate of Compliance Declaration Statement for the entire construction (e.g. a C-10 contractor may complete parts 1a and 1b on one compliance document and a C-45 contractor may complete parts 2a and 2b on a separate compliance document – the Responsible Designer shall submit the two compliance documents together for the same complete installation).*

I have responsibility for installing the sign lighting controls:
☐ Yes, I have responsibility for the sign lighting controls, and will complete parts 1a and 1b of this compliance document
☐ No, I do not have responsibility for installing the sign lighting controls. Someone else will complete parts 1a and 1b of this compliance document.

1a. Check Yes or No for all of the following statements:

1	There are existing sign lighting controls that comply with the applicable provisions of §110.9 and §130.3 ☐ Yes ☐ No
2	There are no existing sign lighting controls and I will be installing sign lighting controls that comply with the applicable provisions of §110.9 and §130.3 ☐ Yes ☐ No
3	There are existing sign lighting controls that do not comply with the applicable provisions of §110.9 and §130.3 and I will be installing sign lighting controls aht comply with the applicable provisions of §110.9 and §130.3 ☐ Yes ☐ No

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 2 of 5)
Project Name: Bishops	Date Prepared: 10/23/2017

1b. Mandatory Sign Lighting Controls

If the person signing the Certificate of Compliance Declaration Statement on this NRCC-LTS-01-E is responsible for complying with the sign lighting control requirements, that person shall answer all of the following questions:

If there are construction documents, indicate where on the building plans the mandatory measures (sign lighting control) note block can be located:

		Y	N	NA
1	**§130.3(a)1. All indoor sign lighting** is controlled with an automatic time-switch control or astronomical time-switch control.	☐	☐	☐
2	**§130.3(a)2A.** All **outdoor sign lighting** is controlled with a photocontrol in addition to an automatic time-switch control, or an astronomical time-switch control.	☐	☐	☐
	EXCEPTION to Section 130.3(a)2A: Outdoor signs in tunnels, and signs in large permanently covered outdoor areas that are intended to be continuously lit, 24 hours per day and 365 days per year.	☐		☐
3	**§130.3(a)2B.** All **outdoor sign lighting** that is ON both day and night is controlled with a dimmer that provides the ability to automatically reduce sign lighting power by a minimum of 65% during nighttime hours. Signs that are illuminated at night and for more than 1 hour during daylight hours shall be considered ON both day and night.	☐	☐	☐
	EXCEPTION to Section 130.3(a)2B: Outdoor signs in tunnels and large covered areas that are intended to be illuminated both day and night.	☐		☐
4	**§130.3(a)3. Demand Responsive Electronic Message Center Control.** An Electronic Message Center (EMC) having a new connected lighting power load greater than 15 kW has a control installed that is capable of reducing the lighting power by a minimum of 30% when receiving a demand response signal.	☐	☐	☐ (N/A)
	EXCEPTION to Section 130.3(a)3: Lighting for EMCs that is not permitted by a health or life safety statute, ordinance, or regulation to be reduced by 30%.	☐		☐

Field Inspector Notes:

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 3 of 5)
Project Name: Bishops	Date Prepared: 10/23/2017

2. Mandatory Sign Lighting Measures

I have responsibility for installing the sign lighting
☐ Yes, I have responsibility for the sign lighting, and will complete parts 2a and 2b of this compliance document
☐ No, I do not have responsibility for installing the sign lighting. Someone else will complete parts 2a and 2b of this compliance document.

2a. Maximum Allowed Lighting Power Method of Compliance

Certificate of Compliance and Field Inspection Energy Checklist.

Complete this part if there are signs using the maximum allowed lighting power method of compliance. (Complete part 2b of this Certificate of Compliance if there are signs using the Specific Lighting Sources method of compliance).

A	B	C	D	E	F	G	H	I	J
Symbol or Code	Description of the Sign	OPTIONAL – Energy Verified Label (see instructions below)	Allotted Watts: Sign Area (ft²)	Internally (I) or Externally (E) Illuminated	Allowed LPD (I = 12 W/ft²) (E = 2.3 W/ft²)	Allowed Watts (D x F)	Design Watts: Total Installed Watts for Sign	Complies Y/N: Complies if H ≤ G	Field Inspector Check that Sign Complies
		✓							✓
		☐							☐
		☐							☐
		☐							☐
		☐							☐
		☐							☐
		☐							☐
		☐							☐
		☐							☐
		☐							☐
		☐							☐

A	Symbol or code used on the plans (when plans are required) and other documents.
B	A description of the sign, or location of sign on the building; and the location of sign on construction documents.
C	OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed, ENERGY VERIFIED label, confirming that the sign complies with the Section 140.8 of the California 2016 Title 24, Part 6 Standards, using the Maximum Allowed Lighting Power method of compliance. The only labels that will be recognized for this purpose are ENERGY VERIFIED Certification Marks authorized by Underwriters Laboratories (UL) or other Product Certification Body accredited to ISO/IEC Guide 65 by the American National Standards Institute in accordance with ISO/IEC 17011. Surveillance by the Accredited Certification Body shall be an ongoing annual inspection program carried out by a Type A inspection body in accordance with ISO/IEC 17020. For signs with such an ENERGY VERIFIED label, columns "D" through "I" are not required to be filled out. Note: Using an ENERGY VERIFIED label is an optional method to validate compliance. An ENERGY VERIFIED label is not needed for compliance.
D	The sign area in square feet.
E	List "I" if the sign is internally illuminated. List "E" if the sign is externally illuminated.
F	Allowed watts per square foot. Enter 12 if the sign is listed as "I" in column E. Enter 2.3 if sign is listed as "E" in column E.
G	Multiply the square footage in column D times the allowed Lighting Power Density (LPD = watts) in column F.
H	Show the total installed watts in the sign, as determined according to the applicable provisions of §130(c).
I	Enter Y if the number in column H is less than or equal to the number in column G. Otherwise, the sign does not comply.
J	This page doubles as a field inspection checklist.

Field Inspector Notes:

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 4 of 5)
Project Name: Bishops	Date Prepared: 10/23/2017

2b. Specific Lighting Source Method of Compliance

Certificate of Compliance and Field Inspection Energy Checklist

Complete this part if there are signs using the Specific Lighting Source method of compliance. (Complete part 2 of this Certificate of Compliance if there are signs using the maximum allowed lighting power method of compliance)

A	B	C	D	E
Symbol or Code	Description	OPTIONAL ENERGY VERIFIED label (see instructions below)	Specific light source used for compliance. Shall include only lighting technologies listed below (List all that apply)	Field Inspector Check that Sign Complies ✓
		☐		☐
		☐		☐
		☐		☐
		☐		☐
		☐		☐

A		Symbol or code used on the plans (when plans are required) and other documents.
B		A narrative description of the sign, or location of sign on the building; and the location of sign on construction documents
C		OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed ENERGY VERIFIED label, confirming that this sign complies with the Section 140.8 of the California 2016 Title 24, Part 6 Standards, using the Specific Lighting Source Method of Compliance. The only labels that will be recognized for this purpose are ENERGY VERIFIED Certification Marks authorized by Underwriters Laboratories (UL) or other Product Certification Body accredited to ISO/IEC Guide 65 by the American National Standards Institute in accordance with ISO/IEC 17011. Surveillance by the Accredited Certification Body shall be an ongoing annual inspection program carried out by a Type A inspection body in accordance with ISO/IEC 17020. For signs with such an ENERGY VERIFIED label, column "D" is not required to be filled out. Note: Using an ENERGY VERIFIED label is an optional method to validate compliance. An ENERGY VERIFIED label is not needed for compliance.
D		Specific Light Source Compliance Method. The sign(s) identified above use only the following lighting technologies: List all applicable numbers (1 through 9) that apply in column D above for each row:
	1	High pressure sodium lamps
	2	Metal halide lamps that are pulse start or ceramic served by a ballast that has a minimum efficiency of 88% or greater. Ballast efficiency is the measured output wattage to the lamp divided by the measured operating input wattage when tested according to ANSI C82.6-2005.
	3	Metal halide lamps that are pulse start that are 320 watts or smaller, are not 250 watt or 175 watt lamps, and are served by a ballast that has a minimum efficiency of 80%. Ballast efficiency is the measured output wattage to the lamp divided by the measured operating input wattage when tested according to ANSI C82.6-2005.
	4	Neon or cold cathode lamps with transformer or power supply efficiency greater than or equal to a minimum efficiency of 75% when the transformer or power supply rated output current is less than 50 mA. The ratio of the output wattage to the input wattage is at 100% tubing load.
	5	Neon or cold cathode lamps with transformer or power supply efficiency greater than or equal to a minimum efficiency of 68% when the transformer or power supply rated output current is 50 mA or greater. The ratio of the output wattage to the input wattage is at 100% tubing load.
	6	Fluorescent lighting systems meeting one of the following requirements: A.) Use only lamps with a minimum color rendering index (CRI) of 80; or B.) Use only electronic ballasts with a fundamental output frequency not less than 20 kHz.
	7	Light emitting diodes (LEDs) with a power supply having an efficiency of 80% or greater.
	8	Single voltage external power supplies that are designed to convert 120 volt AC input into lower voltage DC or AC output, and have a nameplate output power less than or equal to 250 watts, shall comply with the applicable requirements of the Appliance Efficiency Regulations (Title 20).
	9	Compact fluorescent lamps that do not contain a medium screw base sockets (E24/E26).
E		This page doubles as a field inspection checklist.

Field Inspector Notes:

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 5 of 5)
Project Name: Bishops	Date Prepared: 10/23/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Peter A. Leptuch	Documentation Author Signature: [signature]
Company: Peter A. Leptuch, P.E.	Signature Date: 10/23/2017
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REGISTERED PROFESSIONAL ENGINEER — PETER A. LEPTUCH — E 19072 — ELECTRICAL — STATE OF CALIFORNIA — 10/26/17

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NO	REVISION

ISSUE

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ISSUE FOR PERMIT 10/30/17

PROJECT NUMBER
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TITLE 24

DATE OF THIS PRINTING – 10/26/17