

GAVILAN COLLEGE: THEATER BUILDING COMPLEX



^{CLIENT} Gavilan College 5055 Santa Teresa Blvd Gilroy, CA 95020



ARCHITECT Steinberg Hart 818 W 7th Street, Suite 1100 Los Angeles, CA 90017



REV DATE ISSUE

COVER SHEET

PROJECT #: 22104.000 DATE: DRAWN BY: Author CHECKED BY: Checker



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BING FIXTURE CALCU	LATIONS	

ATEMENT OF GENERAL CONFORMANCE

APPLICABLE CODES & STANDARDS

ADMINSTRATIVE REQUIREMENTS

BUILDING CODE ANA	
BUILDING CLASSIFICATION: BUILDINGS - SOUTH BUILDING: PERFORMANCE ARTS	PERFORMANCE PLATFO
OCCUPANCY FIRE PROTECTION ACCESSORY OCCUPANCY (508.2) INCIDENTAL USES (509) CONSTRUCTION TYPE BUILDING AREA	A-1 & B (NON-SEPARATE NOT FULY SPRINKLERED 675 SF STORAGE LESS T N/A TYPE V-A 11,351 SF
NORTH WEST SUPPORT BUILDING OCCUPANCY FIRE PROTECTION ACCESSORY OCCUPANCEY (508.2) INCIDENTAL USES (509) CONSTRUCTION TYPE BUILDING AREA	SCENE SHOP B NON-SPRINKLERED N/A N/A TYPE V-A 1,500 SF
NORTH EAST SUPPORT BUILDING OCCUPANCY FIRE PROTECTION ACCESSORY OCCUPANCEY (508.2) INCIDENTAL USES (509) CONSTRUCTION TYPE BUILDIGN AREA	COSTUME SHOP, MUSIC B NON-SPRINKLERED N/A N/A TYPE V-A 1,500 SF
ALLOWABLE BUILDING HEIGHT AND AREA (CHAP	<u>TER 5):</u>
PER 503.1.2 BUILDINGS ON THE SAME LOT TO BE	CONSIDERED AS PORTIONS (
A OCCUPANCY (MORE RESTRICTIVE USE) NS NON-SPRINKLERED TYPE V-A CONSTRUCTION	
ALLOWABLE BUILDING HEIGHT PER TABLE 504.3 ALLOWABLE NUMBER OF STORIES PER TABLE 40	- 50 FEET> OK (EXISTING 4.4 - 2 STORIES> OK (EXIS
ALLOWABLE AREA DETERMINATION PER 506.2.1	FOR SINGLE OCCUPANCY ON
Aa = At + (NS X If) Aa = 11,500 SF + (11,500 sf X 0.75) = 11,500 SF + 8	3,625 SF = 20,125 SF> OK
Aa = ALLOWABLE AREA At = 11,500 SF PER TABLE 506.2 NS = 11,500 SF PER TABLE 506.2	
If = [F/P - 0.25] W/30 (FRONTAGE INCREASE) If = [1-0.25] 30'/30' = 1 - 0.25 = 0.75	
F = (176' x2) + (176' x 2) = 352' +224' = 576' P= SAME AS F (OPEN ON ALL SIDES) = 576' W=30'	
FIRE RESISTIVE CONSTRUCTION REQUIREMENTS	(TABLE 601):
STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS NONBEARING INTERIOR WALLS AND PARTITIONS FLOOR AND ROOF CONSTRUCTION	1 1 1 0 1

FIRE RESISTIVE RATING REQUIRED FOR EXTERIOR WALLS (TABLE 602): X = FIRE SEPARATION DISTANCE

X > 30' 0 X < 30' 1

VICINITY MAP



THEATER CONSULTANT

SAN FRANCISO, CA 94111

THEATER LIGHTING AUERBACH GLASOW

CHICAGO, IL 60604

COST ESTIMATOR

COST ESTIMATOR

22 TENNENT ROAD

732.970.0700

MORGANVILLE, NJ 07751

SAN FRANCISCO, CA 94111

SAN FRANCISCO, CA 94111

312.386.1400

415.748.3093

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SAN FRANCISO, CA 94111

ACOUSTICAL CONSULTANT THRESHOLD ACOUSTICS, LLC

415.392.7528

415.392.7528

AUERBACH POLLOCK FRIEDLANDER

1045 SANSOME STREET, SUITE 300

1045 SANSOME STREET, SUITE 300

141 WEST JACKSON BLVD., SUITE 2080

CUMMING MANAGEMENT GROUP, INC. 475 SANSOM STREET, SUITE 700

CUMMING MANAGEMENT GROUP, INC.

CONSTRUCTION SPECIFICATIONS, INC.

475 SANSOM STREET, SUITE 700

SPECIFICATIONS CONSULTING

PROJECT DIRECTORY

ARCHITECT OF RECORD

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CIVIL ENGINEER RUGGERI JENSEN AZAR (RJA) 8055 CAMINO ARROYO GILROY, CA 95020 408.848.0300

LANDSCAPE ARCHITECT SPURLOCK LANDSCAPE ARCHITECTS 2122 HANCOCK STREET SAN DIEGO, CA 92110 619.681.0090

STRUCTURAL ENGINEER DEGENKOLB 601 12TH STREET, SUITE 400 OAKLAND, CA 94607 510.272.9040

MECHANICAL ENGINEER PS2 ENGINEERING 18 S. 2ND STREET, SUITE 115 SAN JOSE, CA 95113 669.268.1007

ELECTRICAL ENGINEER PS2 ENGINEERING 5000 E. SPRING ST. 8TH FLOOR LONG BEACH, CA 90815 562.497.2999

FIRE PROTECTION PS2 ENGINEERING 5000 E. SPRING ST. 8TH FLOOR LONG BEACH, CA 90815 562.497.2999

PROJECT DESCRIPTION

PROJECT DESCRIPTION: RENOVATION AND MODERNIZATION OF EXISTING PERFORMING ARTS BUILDING COMPLEX: RENOVATION AND UPGRADE OF A THEATER BUILDING INCLUDING TWO ADJACENT SUPPORT BUILDING STRUCTURES. THIS INVOLVES ACCESSIBILITY UPGRADE AND RECONFIGURATION OF RESTROOMS, ACCESSIBLE ACCESS TO STAGE, RECONFIGURATION OF AUDIENCE SEATING AND SUPPORTING SPACES, ROOF REPAIR AND ROOFING REPLACEMENT, CONFIRMATION OF STRUCTURAL CAPACITY OF PERFORMANCE RIGGING SYSTEM, UPGRADE OF LIGHTING, AUDIO AND VISUAL SYSTEMS, UPGRADE OF MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS, CREATION OF AN EXTERIOR WEST ENTRY PLAZA AND ENCLOSED CONNECTION OF THEATER BUILDING TO NORTHEAST SUPPORT BUILDING.

ALTERNATES

DESCRIPTION OF ADD ALTERNATES:

ADD ALTERNATE #1: REMOVE EXISTING FLOORING (CARPET) AND CEILING MATERIAL. PATCH EXISTING GYP. BOARD WALLS AS NEEDED. PROVIDE NEW BLACK PAINT ON WALLS, NEW BASEBOARD AND CEILING.

- ADD ALTERNATE #2: THIS RELATES TO THE STORAGE MEZZANINE IN THE ELECTRICAL ROOM ON THE WEST SIDE OF BUILDING. THE BASE COST INCLUDES REMOVAL OF THE EXISTING STAIRS AND FLOOR FRAMING (THESE ARE NON-CONFORMING WORK). THE ADDED COST (ADD ALT #2) COVERS PROVISIONS FOR FRAMING OF A COMPLIANT STAIR AND MEZZANINE FLOOR AS WELL AS STRUCTURAL UPGRADES REQUIRED FOR NEW FRAMING.
- ADD ALTERNATE #3: THIS RELATES TO COMPLIANCE OF THE COSTUME STORAGE LOCATED ON THE EAST SIDE OF THE STAGE. THE BASE COST INCLUDES REMOVAL OF THE NON-COMPLIANT STAIR. THE ADDED COST (ADD ALT #3) COVERS PROVISIONS TO BRING THE STORAGE INTO COMPLIANCE.
- ADD ALTERNATE #4: REPLACING WINDOW AND DOOR ASSEMBLIES ALONG THE EAST SIDE OF THE PERFORMING ARTS BUILDING . BASE COST INCLUDES APPLYING TRANSLUCENT FILM ON THE EXISTING TRANSOM WINDOWS. ADD ALTERNATE #5:

REFINISHING THE EXTERIOR CONCRETE SURFACE TO THE SOUTH AND WEST OF THE PERFORMING ARTS BUILDING. THIS WOULD INCLUDE THE HORIZONTAL SURFACE UNDER THE EAVES AND INCLUDE THE TOPMOST RISER ON THE SOUTH AND ALL THE STEPS ON THE WEST. ADD ALTERNATE #6: PROVIDE SEISMIC UPGRADE OF STRUCTURAL SYSTEMS OF THE THREE GAVILAN THEATER BUILDINGS AS REQUIRED FOR DSA

APPROVAL. ADD ALTERNATE #7: (SEE SHEETS FS001, FS101, D1.02, D1.04 AND A2.21) PROVIDE A NEW FULLY AUTOMATIC MONITORED WET PIPE SPRINKLER SYSTEM THROUGHOUT THE THREE GAVILAN THEATER

BUILDINGS AND UNDER THE ROOF EAVES. PROVIDE A NEW CALSS II STANDPIPE DEMOLISH THE EXISTING FIRE SPRINKLER SYSTEM(S).

DEMOLISH CEILING AREAS AS NECESSARY TO INSTALL SPRINKLER SYSTEMS. PROVIDE NEW CEILINGS AS INDICATED.

DEFERRED SUBMITTALS

AUTOMATIC FIRE SPRINKLER SYSTEM.

ORM, AUDIENCE SEATING, DRESSING ROOMS AND OFFICES

THAN 10% OF BUILDING AREA

C PRACTICE ROOMS AND OFFICES

S OF ONE BUILDING. ??

GLESS THAN 50 FEET) STING 1 STORY) NE STORY BUILDING EQUATION 5-1:

K (EXISTING LESS THAN 15,000 SF)



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> **NOT FOR** CONSTRUCTION



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PROJECT INFORMATION

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SHEET NOTES

- 1. PROJECT GENERAL NOTES, SEE SHEET AX.XX.
- FOR ARCHITECTURAL 0'-0" SEA LEVEL ELEVATION, REFER TO THE GENERAL SHEET G.XX.
- 3. FOR THE AVERAGE GRADE PLANE, REFERENCE SHEET G.XX.
- 4. REFER TO CIVIL ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWING ADDITIONAL INFORMATION REGARDING HORIZONTAL CONTROL, SITE DESI LAYOUT, AND DIMENSIONS.
- 5. AT ALL EXTERIOR DOORS, THERE SHALL BE AN EXTERIOR LEVEL LANDING M MIN. IN THE DIRECTION OF TRAVEL. THE MINIMUM WIDTH OF THE LANDING THE DOOR WIDTH AND EXTEND 2'-0" BEYOND THE LATCH-SIDE DOOR JAMB. LANDING SHALL SLOPE 2% AWAY FROM THE EXTERIOR DOOR. THE LANDING SHALL NOT EXCEED 2%.
- 6. EXCEPT WHERE CURB RAMPS AND ACCESSIBLE RAMPS ARE INDICATED IN 1 CONSTRUCTION DOCUMENTS, ALL EXTERIOR PATHS OF PEDESTRIAN TRAV COMPLY WITH THE FOLLOWING: A. NOT EXCEED A 5% SLOPE IN THE DIRECTION OF TRAVEL.
- B. THE CROSS-SLOPE SHALL NOT EXCEED 2%. C. THE PATH OF TRAVEL SHALL BE FREE OF ABRUPT VERTICAL CHANGES E HIGH. VERTICAL CHANGES BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
- D. THE CLEAR WIDTH FOR PATHS OF TRAVEL SHALL BE 4'-0" MINIMUM. OF TRAVEL IS ADJACENT TO A CURB AND GUTTER, THE MINIMUM CLEAF NOT INCLUDE THE CURB.
- E. SURFACE SHALL BE SLIP-RESISTANT.

	KEYNO	TES
AL NOTES ON	2.17	REMOVE ELECTRICAL EQUIPMENT ENCLOSURE AND ASSOCIA EQUIPMENT AND CONC. PAD. REFER TO ELECTRICAL DRAWIN ADDITIONAL INFO.
GS FOR	2.53	(E) MECHANICAL CONC. ENCLOSURE TO REMAIN.
SIGN, UTILITIES,		
G MEASURING 5'-0" IG SHALL EQUAL AB. THE LEVEL VING CROSS-SLOPE		
N THE AVEL SHALL		
S EXCEEDING 1/2" HGH MAXIMUM		
WHERE THE PATH EAR WIDTH SHALL		



KEY PLAN



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- 1. PROJECT GENERAL NOTES, SEE SHEET AX.XX.
- 2. DEMOLITION DEFINITIONS: <u>REMOVE:</u> DETACH AND/OR DEMOLISH ITEMS OF EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE. REMOVE AND SALVAGE: CAREFULLY DETACH ITEMS FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE AND DELIVER TO < ------ >
- <u>REMOVE AND REINSTALL:</u> CAREFULLY DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
- 3. GENERAL CONTRACTOR TO CONFIRM DEMOLITON SCOPE DURING PREBID CONFERENCE SITE INSPECTION TOUR.
- 4. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DEMOLITION DIMENSIONS. (SCALE DRAWINGS ONLY FOR APPROXIMATE DIMENSIONS.)
- 5. THESE DRAWINGS DO NOT SHOW ALL ITEMS TO BE REMOVED AND DEMOLISHED. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DEMO ITMES AS NECESSARY FOR THE WORK.

KEYN	IOTES		
		2 33	
2 01	REMOVE & REINSTALL DOOR AND FRAME	2.55	(F) STAIRS TO PRO IECTION ROOM ABOVE
2.02	REMOVE ENTIRE WINDOW AND DOOR ASSEMBLY WITH THRESHOLD	2.52	(E) METAL FENCE AND GATE TO REMAIN
2.03	REMOVE EXISTING WINDOW ASSEMBLY	2.54	(E) WOOD WALL PANELING TO REMAIN
2.04	REMOVE DOOR AND FRAME AND THRESHOLD	8.07	PROVIDE TRANSI UCENT FILM ON TRANSOM WINDOWS.
2.05	REMOVE CONC. FLOOR SLAB AS CROSS HATCH PATTERN. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.		
2.06	REMOVE AUDIENCE SEATING AND FLOOR ATTACHMENTS IN AUDIENCE CHAMBER.		
2.08	REMOVE CONC. STAIRS. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.		
2.09	REMOVE WOOD STAIRS, RAILING AND LANDING.		
2.10	REMOVE WOOD STAIRS AND FLOOR FRAMING ABOVE.		
2.11	REMOVE PLUMBING FIXTURES. WASTE PIPING TO BE CAPPED BELOW FINISH FLOOR. PATCH FLOOR TO MATCH ADJACENT MATERIAL. WATER & VENT PIPING TO BE DEMOLISHED. SEE ALSO PLUMBING DRAWINGS.		
2.12	REMOVE SINK.		
2.16	REMOVE HANDRAILS AT CONC. STEPS.		
2.18	ADD ALTERNATE #4: REMOVE EXISTING WINDOW AND DOOR ASSEMBLY. REMOVE CONC. CURB WHERE OCCURS AT WINDOWS.		
2.19	REMOVE DOOR PANEL AND DOOR HINGES.		
2.20	REMOVE WOOD PANELING TO UNDERSIDE OF FRAME. SALVAGE WOOD FOR REUSE		
2.22	REMOVE (E) WALL TILE THROUGHOUT.		
2.23	REMOVE (E) TOILET PARTITIONS IN ACCESSORIES.		
2.24	REMOVE (E) FLOORING & WALL BASE THROUGHOUT.		
2.28	REMOVE WALL MOUNTED HANDRAIL AND ASSOCIATED HARDWARE		
2.32	REMOVE EXISTING ROOF DRAINS AND LEADERS		







 KEYNOTES





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TREE PROTECTION NOTES:

A. ROOT PROTECTION ZONE

1. PROTECTIVE FENCING

- A. FOR EXISTING TREES TO REMAIN INSIDE OR ADJACENT TO THE CONSTRUCTION SITE, PROTECTIVE FENCING SHALL BE INSTALLED AT THE ROOT PROTECTION ZONE AND APPROVED IN PLACE BY STAFF PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, OR DEMOLITION. ACCEPTABLE FENCING INCLUDES CHAIN-LINK FENCING, TEMPORARY METAL BARRICADES, OR HIGH VISIBILITY CONSTRUCTION FENCING.
- 2. THE PROTECTION ZONE SHALL BE IRRIGATED SUFFICIENTLY WITH CLEAN POTABLE WATER TO KEEP THE TREE IN GOOD HEALTH AND VIGOR BEFORE, DURING, AND AFTER CONSTRUCTION. THIS MAY MEAN DEEPLY SOAKING THE GROUND PERIODICALLY.
- 3. NO CONSTRUCTION STAGING OR DISPOSAL OF CONSTRUCTION MATERIALS OR BYPRODUCTS INCLUDING BUT NOT LIMITED TO PAINT, PLASTER, OR CHEMICAL SOLUTIONS IS ALLOWED IN THE ROOT PROTECTION ZONE.
- 4. THE ROOT PROTECTION ZONE SHOULD NOT BE SUBJECTED TO FLOODING INCIDENTAL TO THE CONSTRUCTION WORK.
- 5. ALL WORK CONDUCTED IN THE GROUND WITHIN THE ROOT PROTECTION ZONE OF ANY PROTECTED TREE SHALL BE ACCOMPLISHED WITH HAND TOOLS, UNLESS AN AIR SPADE IS UTILIZED. TRENCHES IN THE ROOT PROTECTION ZONE SHOULD BE TUNNELED, OR COMPLETED WITH AN AIR SPADE TO AVOID DAMAGE TO SMALL FEEDER ROOTS WITHIN THE ROOT PROTECTION ZONE. INFORMATION REGARDING AIR SPADES IS AVAILABLE FROM STAFF.
- 6. WHERE STRUCTURAL FOOTINGS ARE REQUIRED AND MAJOR ROOTS (OVER 3"IN DIAMETER) WILL BE IMPACTED, THE ENGINEER OF RECORD SHALL SUBMIT ACCEPTABLE FOOTING DESIGN ALTERNATIVES AND OR LOCATION ALTERNATIVES TO STAFF BEFORE PROCEEDING WITH FURTHER PLAN REVIEW.
- 7. WHERE MORE THAN 50% OF THE ROOT ZONE IS IMPACTED OR ROOTS GREATER THAN 3 INCHES IN DIAMETER ARE TO BE REMOVED WITHIN FOUR FEET OF THE TRUNK, THE ENGINEER OF RECORD SHALL SUBMIT ACCEPTABLE DESIGN ALTERNATIVES TO STAFF FOR REVIEW.
- 8. ANY REQUIRED TRENCHING SHALL BE ROUTED IN SUCH A MANNER AS TO MINIMIZE ROOT DAMAGE. RADIAL TRENCHING (RADIAL TO THE TREE TRUNK) IS PREFERRED AS IT IS LESS HARMFUL THAN TANGENTIAL TRENCHING. CONSTRUCTION ACTIVITY SHOULD BE DIVERTED FROM THE ROOT PROTECTION ZONE. CUTTING OF ROOTS SHALL BE AVOIDED (I.E. PLACE PIPES AND CABLES BELOW UNCUT ROOTS). WHEREVER POSSIBLE AND IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS, THE SAME TRENCH SHOULD BE USED FOR MULTIPLE UTILITIES.
- 9. "NATURAL" OR PRE-CONSTRUCTION GRADE SHALL BE MAINTAINED IN THE ROOT PROTECTION ZONE. AT NO TIME DURING OR AFTER CONSTRUCTION SHALL SOIL BE IN CONTACT WITH THE TRUNK OF THE TREE ABOVE THE BASAL FLAIR.
- 10. IN AREAS WHERE THE GRADE AROUND THE PROTECTED TREE WILL BE LOWERED, SOME ROOT CUTTING MAY BE UNAVOIDABLE. CUTS SHALL BE CLEAN AND MADE AT RIGHT ANGLES TO THE ROOTS. WHEN PRACTICAL, CUT ROOTS BACK TO A BRANCHING LATERAL ROOT.
- 11. WHEN REMOVING EXISTING PAVEMENT IN THE ROOT PROTECTION ZONE, AVOID THE USE OF HEAVY EQUIPMENT, WHICH WILL COMPACT AND DAMAGE THE ROOT SYSTEM.
- 12. IF STAFF REQUIRES MULCH IN THE ROOT PROTECTION ZONE THE MULCH MATERIALS AND LOCATION SHALL BE SHOWN ON THE PLAN. LARGER PROJECTS WILL REQUIRE CONSTRUCTION STAGING PLANS TO INDICATE WHERE MATERIALS WILL BE STORED AND HOW THE EQUIPMENT WILL MOVE IN AND AROUND THE PROPERTY TO MINIMIZE DAMAGE TO THE ROOT PROTECTION ZONE AND TREE CANOPIES. ROOT DAMAGE AND SOIL COMPACTION MAYBE MITIGATED IN SOME CASES BY USING PLYWOOD OR MULCH IN THE ROOT PROTECTION ZONE.

B. PRUNING:

- PRUNING OF ALL TREES SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS (INTERNATIONAL SOCIETY OF ARBORICULTURE OR ANZI 133.1).
- 2. PRUNING OF OAKS SHALL BE LIMITED TO THE REMOVAL OF DEAD WOOD AND THE CORRECTION OF POTENTIALLY HAZARDOUS CONDITIONS, AS EVALUATED BY A QUALIFIED ARBORIST. EXCESSIVE PRUNING IS HARMFUL TO OAKS. REMOVAL OR REDUCTION OF MAJOR STRUCTURAL LIMBS SHALL BE DONE ONLY AS REQUIRED FOR ACTUAL BUILDING CLEARANCE OR SAFETY. IF LIMBS MUST BE REMOVED, CUTS SHALL BE MADE PERPENDICULAR TO THE BRANCH, TO LIMIT THE SIZE OF THE CUT FACE. THE BRANCH BARK COLLAR SHALL BE PRESERVED (I. E. NO "FLUSH CUTS"), AND CUTS SHALL BE MADE IN SUCH A WAY AS TO PREVENT THE TEARING OF BARK FROM THE TREE.
- 3. PRUNING OF TREES OTHER THAN OAKS SHALL BE LIMITED TO THE REMOVAL OR REDUCTION OF MAJOR STRUCTURAL LIMBS AND SHALL BE DONE ONLY AS REQUIRED FOR ACTUAL BUILDING CLEARANCE OR SAFETY. IF LIMBS MUST BE REMOVED, CUTS SHALL BE MADE PERPENDICULAR TO THE BRANCH, TO LIMIT THE SIZE OF THE CUT FACE. THE BRANCH BARK COLLAR SHALL BE PRESERVED (I. E. NO "FLUSH CUTS"), AND CUTS SHOULD BE MADE IN SUCH A WAY AS TO PREVENT THE TEARING OF BARK FROM THE TREE.

ADDITIONAL NOTE:

- ALL TREE LOCATIONS AND TREE COUNT ARE APPROXIMATED BASED SURVEY PROVIDED. THE OWNER'S REPRESENTATIVE SHALL BE ON SITE TO ASSIST IN THE TAGGING OF TREES FOR REMOVAL.
- 2. EXISTING IRRIGATION IS TO BE RETROFITTED AND AUGMENTED FOR NEW LANDSCAPE PLANTING. LANDSCAPE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO EXISTING IRRIGATION SYSTEM TO ENSURE FULL COVERAGE OF NEW PLANTING AREAS WITHIN LIMIT OF WORK.
- 3. TREE PROTECTION ZONE EXTENDS FROM THE BASE OF TREE TO FOUR (4') RADIAL FEET BEYOND THE TREES DRIPLINE.
- 4. FENCING SHALL BE A MINIMUM OF 4' IN HEIGHT.





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HARDSCAPE LEGEND

	PROPOSED IMPROVEMENTS	DESCRIPTION
PED	- -	
	C.I.P. CONCRETE PAVING TYPE 1	INTEGRAL COLOR W/ RETARDER FINISH
	C.I.P. CONCRETE PAVING TYPE 2	INTEGRAL COLOR W/ SAND FINISH
) METAL LANDSCAPE EDGING	J.D. RUSSELL COMPANY POWDERCOATED STEEL EDGING
(2) DIRECTIONAL SIGNAGE	PER CAMPUS SINGNAGE STANDARDS
3) SLOPED WALKWAY	
4) C.I.P. CONCRETE RETAINING WALL	8" WIDE, INTEGRAL COLOR W/ RETARDER FINISH
5	C.I.P. CONCRETE AMPHITHEATER SEAT WALL	24" WIDE, INTEGRAL COLOR W/ RETARDER FINISH
6	C.I.P. CONCRETE FREESTANDING SEAT WALL WITH WOOD TOP	18" WIDE, INTEGRAL COLOR W/ RETARDER FINISH; LANDSCAPE FORMS GENERATION 50 WALL MOUNTED BACKLESS BENCH WITH (2) ARMS
(7) C.I.P. CONCRETE ACCESSIBLE RAMP WITH HANDRAIL	INTEGRAL COLOR W/ SAND FINISH; STAINLESS STEEL HANDRAIL AND GUIDERAIL TO MATCH ARCHITECT DRAWINGS
) STAGE AREA	
9) ACCESSIBLE COMPANION SEATING AREA	30" X 48" MIN. CLEAR FLOOR AREA
(10) BENCH	LANDSCAPE FORMS GENERATION 50 TRADITIONAL BACKED BENCH WITH (2) ARM
SYMBOL	IMPROVEMENTS BY OTHERS	
1	ELECTRICAL ENCLOSURE	PER ELECTRICAL AND ARCHITECT
SYMBOL	LIGHTING	DESCRIPTION
© [11	PROPOSED PEDESTRIAN POLE LIGHT TO MATCH EXISTING	PER ELECTRICAL
€ L2	RELOCATED EXISTING PEDESTRIAN POLE LIGHT	PER ELECTRICAL
• L2	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE	PER ELECTRICAL
 € € L2 ↓ ↓	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT	PER ELECTRICAL PER ELECTRICAL PER ELECTRICAL
 € €	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE	PER ELECTRICAL PER ELECTRICAL PER ELECTRICAL
€ [_2 	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN	PER ELECTRICAL PER ELECTRICAL PER ELECTRICAL
€ [2 	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING	PER ELECTRICAL PER ELECTRICAL
€ [2 	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING STAIRS	PER ELECTRICAL PER ELECTRICAL
€ [2 	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING STAIRS EXISTING BUILDING COLUMN	PER ELECTRICAL PER ELECTRICAL
 € € € E1 E2 E3 E4 E5 	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING STAIRS EXISTING BUILDING	PER ELECTRICAL PER ELECTRICAL
 € € € E1 E2 E3 E4 E5 E6 	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING BUILDING COLUMN EXISTING BUILDING EXISTING BUILDING OVERHANG	PER ELECTRICAL PER ELECTRICAL
 € € ↓ ↓	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING BUILDING COLUMN EXISTING BUILDING OVERHANG EXISTING UTILITY ENCLOSURE	PER ELECTRICAL PER ELECTRICAL
 € € ↓ ↓	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING BUILDING COLUMN EXISTING BUILDING OVERHANG EXISTING UTILITY ENCLOSURE	PER ELECTRICAL PER ELECTRICAL
 € € ↓ ↓	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING BUILDING COLUMN EXISTING BUILDING OVERHANG EXISTING UTILITY ENCLOSURE	PER ELECTRICAL PER ELECTRICAL
 ● [2 ↓ [3 ● [4 SYMBOL E1 E2 E3 E4 E5 E6 E7 SYMBOL PA ▼ • 	RELOCATED EXISTING PEDESTRIAN POLE LIGHT EXISTING PEDESTRIAN POLE LIGHT TO REMAIN IN PLACE 25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT EXISTING TO REMAIN / PROTECT IN PLACE EXISTING TREE TO REMAIN EXISTING PAVING EXISTING STAIRS EXISTING BUILDING COLUMN EXISTING BUILDING OVERHANG EXISTING UTILITY ENCLOSURE PLAN GRAPHICS PLANTING AREA PROPOSED TREE CENTER	PER ELECTRICAL PER ELECTRICAL



REV DATE ISSUE

HARDSCAPE PLAN

PROJECT #: 22104.000 DATE: 06/24/2022 DRAWN BY: DG, AGA CHECKED BY:LK

50% SCHEMATIC DESIGN

L1.01



PAVING TYPE 1



C.I.P. CONCRETE SEAT WALL



PEDESTRIAN POLE LIGHT TO MATCH EXISTING



PAVING TYPE 2 (OPTION 1)



C.I.P. CONCRETE SEAT WALL WITH WOOD TOP; LANDSCAPE FORMS GENERATION 50 BENCH TOP WITH THERMALLY MODIFIED ASH WOOD



25 FOOT HIGH MULTI-HEAD ADJUSTABLE POLE LIGHT; SELUX 'OLIVIO SISTEMA'



PAVING TYPE 2 (OPTION 2)



LANDSCAPE FORMS GENERATION 50 BENCH WITH THERMALLY MODIFIED ASH WOOD





ARCHITECT Steinberg Hart 818 W 7th Street, Suite Los Angeles, CA 90017

> SPURLOCK LANDSCAPE ARCHITECTS

> > 2122 Hancock Street San Diego, Calfornia 92110 619.681.0090 spurlock-land.com

Gavilan College Theatre Modernization 5055 SANTA TERESA BLVD. GILROY, CA 95020

REV DATE ISSUE

HARDSCAPE MATERIALS

PROJECT #: 22104.000 DATE: 06/24/2022 DRAWN BY: DG, AGA CHECKED BY:LK

50% SCHEMATIC DESIGN

L1.02



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PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	CONTAINER SIZE	FORM
/\				
+				
I				
/	, · · · · · · · · · · · · · · · · · · ·			
	\mathbf{N}			
	CANOPY TREES, SUCH AS:		48" BOX	NATURAL
	QUERCUS AGRIFOLIA	COAST LIVE OAK		
~~~~				
کر کے	ACCENT TREES, SUCH AS:		36" BOX	STANDARD
' • }	CERCIS CANADENSIS 'FOREST PAR	NSY' FASTERN REDBUD		
کرریک				
	SHRUBS SUCH AS:			
	BOTANICAL NAME	COMMON NAME	MATURE ZIZE	CONTAINER SIZ
· · · · · · · · · ]			6_8' ⊔ ⊻ 3_5' W	100% 15 041
	HETEROMELES ARBUTIFOLIA	TOYON	6–10' H X 6–8' W	100% 13 GAL
<u>++++++</u>	MYRICA CALIFORNICA RHAMNUS CALIFORNICA 'EVE CASE'	PACIFIC WAX MYRTLE COFFEEBERRY	20-30' H X 10-20' W 6-8' H X 6-8' W	
CCENT SHR	UBS & GROUNDCOVERS SUCH AS:			
	BOTANICAL NAME	COMMON NAME	MATURE SIZE	CONTAINER SIZ
<b>_]</b>			<10" ↓ V 8_10' W	509 1 04
	BACCHARIS PILULARIS 'PIGEON POINT'	DWARF COYOTE BRUSH	1-2' H X 6-8'W	30% 5 GAL
	CAREX TUMULICOLA RIBES VIBURNIFOLIUM	FOOTHILL SEDGE CATALINA CURRANT	.5-1'H X 2'W 2-3 H X 8'W	20% 15 GAL
	SALVIA MELLIFERA 'JADE CARPET'	JADE CARPET SAGE	2' H X 5' W	
RASSES / L/	AWN SUCH AS:			
	BOTANICAL NAME			
/ \ \ \ \ \ \ \ \ \ \	PERENNIAL RYE GRASS MIX			
~	85% PERENNIAL RYE GRASS 5% CALIFORNIA POPPY			
	5% LUPINE 5% NARROWLEAF BIRDSFOOT TREFOIL			
OTES.				
1. PROVIDE A 2. ALL PLAN	AUTOMATIC IRRIGATION TO ALL PLANTING AF TING AREAS EXCEPT TURF, GRASS MIX, OR	KEAS. ROCK MULCH		
	**			
AREAS TO SPECIFICA	RECEIVE A 3" LAYER OF BARK MULCH PEF TIONS UNLESS OTHERWISE NOTED.	2		

TREE WILL BE PLANTED WITHIN 5' OF ADJACENT CURBS, SIDEWALKS, WALLS OR ANY FLATWORK OR HARDSCAPE.



L2.01







MYRICA CALIFORNICA / PACIFIC WAX MYRTLE



QUERCUS AGRIFOLIA / COAST LIVE OAK

![](_page_11_Picture_11.jpeg)

RHAMNUS CALIFORNICA 'EVE CASE' / COFFEEBERRY

![](_page_11_Picture_13.jpeg)

**RIBES VIBURNIFOLIUM / CATALINA CURRANT** 

**CARPENTERIA CALIFORNICA / BUSH ANEMONE** 

![](_page_11_Picture_17.jpeg)

**ARCTOSTAPHYLOS UVA-URSI / RADIANT MANZANITA** 

![](_page_11_Picture_19.jpeg)

SALVIA MELLIFERA 'JADE CARPET' / JADE CARPET SAGE

ERS: GROUNDCOV õ SHRUBS CCENT

RU

SH

SCREENING

![](_page_11_Picture_22.jpeg)

![](_page_11_Picture_24.jpeg)

HETEROMELES ARBUTIFOLIA / TOYON

![](_page_11_Picture_26.jpeg)

BACCHARIS PILULARIS 'PIGEON POINT' / DWARF COYOTE BRUSH

![](_page_11_Picture_28.jpeg)

PERENNIAL RYE GRASS MIX

![](_page_11_Picture_31.jpeg)

REV DATE ISSUE

# PLANTING CHARACTER

PROJECT #: 22104.000 DATE: 06/24/2022 DRAWN BY: DG, AGA CHECKED BY: LK

L2.02

# **Conceptual Site Plan**

![](_page_12_Picture_1.jpeg)

Spurlock | Steinberg Hart | Gavilan College

## Legend

01	Stage area
02	Sloped meadow s
03	Amphitheater sea
04	Sloped Walk
05	Accessible ramp
06	Overlook
07	Seatwall with woo
08	Bench
09	Signage
10	Utility enclosure

# seating

## ating

od top

![](_page_13_Figure_0.jpeg)

	KEYN	IOTES
IL NOTES ON	2.53 6.08	(E) MECHANICAL CONC. ENCLOSURE TO REMAIN. 7' HIGH ELECTRICAL EQUIPMENT WOOD ENCLOSURE WITH ACCESS GATE.
S FOR FIGN, UTILITIES,		
MEASURING 5'-0" G SHALL EQUAL B. THE LEVEL NG CROSS-SLOPE		
I THE VEL SHALL		
EXCEEDING 1/2" IGH MAXIMUM		
WHERE THE PATH AR WIDTH SHALL		

![](_page_13_Picture_2.jpeg)

# ste **î Q**i

ARCHITECT Steinberg Hart 818 W 7th Street, Suite 1100 Los Angeles, CA 90017

![](_page_13_Picture_5.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

	$\sum$	KEYN	OTES
PARTITION TYPES	$\sum_{i=1}^{n}$		
TYPE 13-5/8" METAL STUD; ONE LAYER 5/8" GYPSUM BOARD EACH SIDE; STANDARD BASE AND HEAD (G1/1 IN ACOUSTICS DESIGN REPORT)TYPE 23-5/8" METAL STUD; TWO LAYERS 5/8" GYPSUM BOARD ONE SIDE; ONE LAYER 5/8" GYPSUM BOARD ONE SIDE; STANDARD BASE AND HEAD; FILLED WITH 3# DENSITY MINERAL WOOL IN CAVITY (G2/1 IN ACOUSTICS DESIGN REPORT)TYPE 33-5/8" METAL STUD; 2 LAYERS 5/8" GYPSUM BOARD EACH SIDE; STANDARD BASE AND HEAD; FILLED WITH 3# DENSITY MINERAL WOOL IN CAVITY (G2/2 IN ACOUSTICS DESIGN REPORT)TYPE 43-5/8" METAL STUD; TWO LAYERS 5/8" GYPSUM BOARD ONE SIDE; STANDARD BASE AND		2.58 3.01 3.02 3.03 3.04 3.05	<ul> <li>(E) CONC. STAIRS TO REMAIN, TYP.</li> <li>PATCH AND PREP. CONC. OPENING FOR DOOR INSTAL</li> <li>PATCH CONC. AND EXISTING CRACKS. PREP CONC. SI</li> <li>CONC. POURS FOR RECONFIGURATION OF SEATING AI</li> <li>TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.</li> <li>ADD ALTERNATE #4: PATCH AND PREP CONC. OPENIN</li> <li>AND/OR DOOR ASSEMBLY INSTALLATION.</li> <li>PATCH AND PREP CONC. OPENING FOR DOOR AND WII</li> <li>INSTALLATION.</li> <li>CONC. STEPS. REFER TO STRUCTURAL DRAWINGS FO</li> </ul>
HEAD; FILLED WITH 3# DENSITY MINERAL WOOL IN CAVITY (G2 IN ACOUSTICS DESIGN REPORT) TYPE 5 3-5/8" METAL STUD; TWO LAYERS 5/8" GYPSUM BOARD ONE SIDE; RESILIENT HEAD AND BASE; FILLED WITH 3# DENSITY MINERAL WOOL IN CAVITY (G2 DASHED IN ACOUSTICS DESIGN REPORT) TYPE 6 3-5/8" METAL STUD; THREE LAYERS 5/8" GYPSUM BOARD ONE SIDE; STANDARD BASE AND HEAD; FILLED WITH 3# DENSITY MINERAL WOOL IN CAVITY (G3 IN ACOUSTICS DESIGN REPORT)		3.06 3.07 3.08	INFO. PATCH CONC. WALL TO MATCH ADJACENT SURFACE. CONC. SLAB ON GRADE AT ELEVATION AS INDICATED BOTTOM ROW AUDIENCE SEATING. REFER TO STRUCT DRAWINGS FOR ADDITIONAL INFO. ADD ALTERNATE #5: PREPARE CONC. SURFACE AT SC BUILDING UNDER ROOF OVERHANG FOR CONC. STAINING
TYPE 7 3-5/8" METAL STUD; THREE LAYERS 5/8" GYPSUM BOARD ONE SIDE; RESILIENT HEAD AND BASE; FILLED WITH 3# DENSITY MINERAL WOOL IN CAVITY (G3 DASHED IN ACOUSTICS DESIGN REPORT) TYPE 8 3-5/8" METAL STUD; THREE LAYERS 5/8" GYPSUM BOARD ONE SIDE; STANDARD BASE AND HEAD; FILLED WITH 3# DENSITY MINERAL WOOL IN CAVITY (G R3 IN ACOUSTICS DESIGN REPORT)		5.01 5.02	BUILDING TO BE DETERMINED. PROVIDE CONC. STAININ BUILDING TO EDGE OF FIRST STEP TREAD AND FACE C RISER. PROVIDE FLOOR MOUNTED GALVANIZED PIPE RAILING STAIRS. PROVIDE WALL MOUNTED GALVANIZED PIPE RAILING STAIRS.
TYPE 9 ONE LAYER 5/8" GYPSUM BOARD ADDED TO EXISTING GYPSUM BOARD ON EXISTING PARTITION SEE ACOUSTICS SCHEMATIC DESIGN REPORT DATED JUNE 24, 2022 FOR ADDITIONAL INFORMATION ON PARTITIONS		6.01 6.02 6.03 6.04	PATCH WALL AND PREP FOR INSTALLATION OF DOOR. PATCH WALL TO MATCH ADJACENT SURFACE. COUNTERTOP 24" DEEP WITH BACKSPLASH. REFER TO ACCESSIBLE MOUNTING HEIGHT. BUILT-IN COUNTER AT DRESSING ROOM AND MEETING

![](_page_14_Figure_3.jpeg)

10.03

10.04

TO G4.01 FOR IG ROOM.

ADD ALTERNATE #2: PROVIDE WOOD STAIRS WITH METAL HANDRAIL TO STORAGE ABOVE ADD ALTERNATE #2: PROVIDE FLOOR FRAMING. FINISH FLOOR ELEVATION TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFO. ADD ALTERNATE #3: PROVIDE WOOD STAIRS WITH METAL HANDRAIL O COSTUME ROOM ABOVE. EXISTING WOOD LADDER TO CATWALK ABOVE. 6" GALVANIZED STEEL PIPE WITH MITERED WELDED CONNECTIONS-WELD PIPE TO ROOF STEEL PLATE INSTALL DOOR AND TRANSOM IN (E) OPENING TO MEET ACCESSIBLE CLEARANCE. PROVIDE TRANSLUCENT INSULATED GLASS UNIT AT TRANSOM. ALUMINUM ASSEMBLY WITH ALUMINUM DOORS. INSTALL DOOR TO MEET ACCESSIBLE CLEARANCE. HOLLOW METAL DOOR AND FRAME.

ADD ALTERNATE #4: INSTALL FIXED WINDOW WITH TRANSLUCENT INSULATED GLASS UNIT AND DOOR, WHERE SHOWN, IN (E) CONC. OPENING. ALUMINUM ASSEMBLY, PROVIDE DUTCH DOOR. PROVIDE PAPER TOWEL AND WASTE RECEPTACLE. REFER TO G4.01

FOR ACCESSIBLE MOUNTING HEIGHT. PROVIDE SOAP DISPENSER. REFER TO G4.01 FOR ACCESSIBLE MOUNTING HEIGHT. PROVIDE TOILET SEAT DISPENSER. REFER TO G4.01 FOR ACCESSIBLE MOUNTING HEIGHT. PROVIDE NAPKIN DISPOSAL. REFER TO G4.01 FOR ACCESSIBLE MOUNTING LOCATION.

10.07 12.01 22.01 22.02 22.03 22.04 22.05 22.06 22.07

10.0

10.00

PROVIDE TOILET PAPER DISPENSER. REFER TO G4.01 FOR ACCESSIBLE MOUNTING LOCATION.

RPOVIDE GRAB BARS. REFER TO G4.01 FOR ACCESSIBLE MOUNTING LOCATION. FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITION, TYP.

- PROVIDE AUDIENCE SEATING. REFER TO A4.16 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFO. PROVIDE FLOOR SINK.
- PROVIDE LAVATORY. REFER TO PLUMBING DRAWINGS. ACCESSIBLE WATER CLOSET. REFER TO G4.01 FOR ACCESSIBLE MOUNTING HEIGHT.

ACCESSIBLE URINAL. REFER TO G4.01 FOR ACCESSIBLE MOUNTING HEIGHT. 36" X 60" SHOWER PAN. REFER TO PLUMBING DRAWINGS.

PROVIDE WALL HUNG ACCESSIBLE SINK. REFER TO G4.01 FOR ACCESSIBLE MOUNTING HEIGHT. 30" X 60" ACCESSIBLE SHOWER. REFER TO PLUMBING DRAWINGS.

![](_page_14_Figure_15.jpeg)

![](_page_14_Picture_16.jpeg)

![](_page_14_Picture_17.jpeg)

1 22-07-05 COST ESTMATE UPDATES REV DATE ISSUE

FLOOR PLAN

PROJECT #: 22104.000 DATE: DRAWN BY: Author CHECKED BY: Checker

![](_page_14_Picture_23.jpeg)

![](_page_15_Figure_0.jpeg)

## SHEET NOTES

- 1. PROJECT GENERAL NOTES, SEE SHEET AX.XX.
- 2. TYPICAL ROOF ASSEMBLIES: A. LOW-SLOPE ROOF: REFER TO SHEET AX.XX. B. XXXXX ROOF: REFER TO SHEET AX.XX.
- 3. FURNISH AND INSTALL 18 GA. METAL BACKING PLATE AT ALL ROOF-TO-WALL TRANSITIONS (BASE, HEAD, OR JAMB), IN ORDER TO MECHANICALLY FASTEN THE ROOFING MEMBRANES, FLASHINGS, ROOF BOARD, AND CLOSURES INDICATED IN THE CONTRACT DOCUMENTS.
- 4. ROOF SURFACES SHALL SLOPE TO DRAIN, GUTTER, OR DOWNSPOUT AT A MINIMUM 1/4" PER FOOT AT VALLEYS.
- INSTALL ADDITIONAL CRICKETS TO ACHIEVE POSITIVE DRAINAGE TO DRAIN, GUTTER OR DOWNSPOUT. CRICKETS SHALL SLOPE AT 1/2" PER FOOT.
- 6. WHERE ROOF INTAKE VENTS ARE LOCATED WITHIN 10'-0" OF ANY EXHAUST OPENING, THE EXHAUST OUTLET SHALL NOT BE LESS THAN 3 FEET ABOVE AN AIR INTAKE.
- THAN 3'-0" ABOVE AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT. ROOF PLUMBING VENTS SHALL NOT BE PLACED WITHIN 3'-0" HORIZONTALLY OF THE ROOF PARAPET OR BUILDING PERIMETER. 8. NO ROOFING PENETRATION (I.E. PLUMBING VENTS, DRYER VENTS, ETC.) OR OPENINGS SHALL OCCUR WITHIN 1'-6" OF VALLEYS, HIPS, OR RIDGES.
- 9. WHERE A ROOF PARAPET IS LESS THAN 3'-6" HIGH, THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS OPENINGS TO EQUIPMENT AND APPLIANCES SO THAT THE ACCESS OPENING AND PATH OF TRAVEL TO THE ACCESS OPENING IS LOCATED GREATER THAN 6'-0" HORIZONTALLY FROM THE EDGE OF THE ROOF OR ROOF PARAPET.

- 10. FOR TYPICAL ROOF FLASHING AT SELF-CURBING MEP EQUIPMENT, SEE AX.XX.
- 11. FOR TYPICAL ROOF FLASHING AT MECHANICAL DUCT SUPPORTS, SEE AX.XX. 12. FOR TYPICAL PLUMBING VENT AND ELECTRICAL PIPE PENETRATIONS, SEE AX.XX
- 13. FOR TYPICAL HORIZONTAL PLUMBING PIPING OR CONDUIT PATHWAYS MOUNTED ON THE
- ROOF, SEE AX.XX. 14. ALL GSM FLASHINGS, COPING, LOUVERS, WALL CAPS, ATTIC VENTS AND SOFFIT VENTS ARE
- TO BE FIELD PAINTED, U.O.N. THIS APPLIES TO ALL SUCH GSM COMPONENTS WHETHER EXPOSED TO VIEW OR HIDDEN. PAINT TO MATCH ADJACENT WALL OR SOFFIT, U.O.N. 5. CRICKET SLOPES AND SLOPE DIRECTIONS ARE INDICATED ON THE ROOF PLAN. FURNISH AND 15. FURNISH AND INSTALL ROOF ATTIC VENTS AS SHOWN ON SHEET AX.XX.
  - 16. WHERE FRAMED-UP ROOF SLOPES AND CRICKETS ARE BUILT ABOVE A ROOF-CEILING ASSEMBLY, CONCEALED SPACES FORMED BY JOIST AND STUD FRAMING GREATER THAN 6" INCHES BETWEEN THE INSIDE OR NEAR EDGE OF FRAMING SHALL BE FILLED ENTIRELY WITH NONCOMBUSTIBLE INSULATION.
- 7. ROOF PLUMBING VENTS SHALL NOT TERMINATE WITHIN 10'-0" HORIZONTALLY OR NOT LESS 17. LOCATE HEAT PUMP PLATFORMS AND AIR HANDLERS ABOVE RESIDENTIAL CORRIDORS. IF THESE MECHANICAL EQUIPMENT IS NOT LOCATED ABOVE CORRIDORS, NOTIFY ARCHITECT BEFORE INSTALLING MECHANICAL EQUIPMENT OR STRUCTURAL FRAMING & SUPPORT.
  - 18. COORDINATE GUTTER AND DOWNSPOUT LOCATIONS WITH THE LOCATIONS SHOWN ON THE EXTERIOR ELEVATIONS. REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL DOWN-SPOUTSAND GUTTERS NOT SHOWN ON THE ROOF PLAN.
  - 19. ALL GUTTERS, DOWNSPOUTS, AND ASSOCIATED BRACKETS AND ACCESSORIES SHALL BE FIELD-PAINTED, COLOR XXXX.

## **KEYNOTES**

PROVIDE ROOFING MATERIAL COMPOSED OF MODIFIED BITUMEN 7.01 ROOFING WITH GRANULAR TOP ADHERED OVER 2" OF RIGID INSULATION OVER EXISTING PLYWOOD SUBSTRATE 7.02 AT ROOF EDGE LOCATIONS AS SHOWN BY DIAGONAL HATCH PATTERN, PROVIDE METAL ANGLE AS SHOWN ON DETAIL 2/A7.11. PROVIDE AND INSTALL LEADER BOXES AND RAINWATER LEADER AT SAME LOCATIONS AS PREVIOUSLY INSTALLED. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFO. REFER TO UTILITY PLANS FOR RAIN WATER LEADER CONNECTION TO EXISTING STORM LINE WHERE OCCURS. PROVIDE AUTOMATIC SMOKE VENTS WITH MINIMUM CLEAR OPENING 8.08 OF 35 SF EACH.

![](_page_15_Figure_24.jpeg)

![](_page_15_Figure_25.jpeg)

![](_page_15_Figure_26.jpeg)

![](_page_15_Picture_27.jpeg)

![](_page_15_Figure_28.jpeg)

Gavilan College Theatre Modernization 5055 SANTA TERESA BLVD. GILROY, CA 95020

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PROJECT #: 22104.000 DATE: DRAWN BY: Author CHECKED BY: Checker

100% SCHEMATIC DESIGN

2.12

![](_page_16_Figure_0.jpeg)

2.25	REMOVE SECTION OF ROOF TO ACCOMMODATE ROOF VENT, SIMIL TO BILCO DOUBLE LEAF - AUTOMATIC SMOKE VENTS
2.59	(E) ROOF FRAMING TO REMAIN, TYP.
2.60	(E) OPENING FOR SIDEWALL DIFFUSER.
7.03	6" GALVANIZED STEEL PIPE WITH MITERED WELDED CONNECTION
9.01	WELD PIPE TO ROOF STEEL PLATE ADD ALVERNATE #7. PROVIDE ACOUSTICAL CEILING ACT-1 THROUGHOUT.
9.02	ADD ALTERNATE #7. PROVIDE LIGHT GAUGE METAL CEILING FRAM TO MATCH IN HEIGHT, PATTERN AND TRANSITION AS PREVIOUSLY REMOVED. PROVIDE THREE LAYERS OF 5/8" GYPSUM BOARD FINIS PROVIDE ACOUSTICAL BATT INSULATION ABOVE CEILING.

![](_page_16_Picture_12.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Picture_1.jpeg)

DATE: DRAWN BY: Author CHECKED BY: Checker

PROJECT #: 22104.000

![](_page_17_Picture_5.jpeg)

![](_page_18_Figure_0.jpeg)

KEYNOT	ES
2.60	(E) OPENING FOR SIDEWALL DIFFUSER.

![](_page_18_Picture_2.jpeg)

# steinperv **n**Oí

ARCHITECT Steinberg Hart 818 W 7th Street, Suite 1100 Los Angeles, CA 90017

![](_page_18_Picture_5.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_19_Figure_2.jpeg)

EYNC	DTES	MATERIAL LEGEND
7.03 8.04 8.08	6" GALVANIZED STEEL PIPE WITH MITERED WELDED CONNECTIONS- WELD PIPE TO ROOF STEEL PLATE FOLDABLE PARTITION. PROVIDE AUTOMATIC SMOKE VENTS WITH MINIMUM CLEAR OPENING OF 35 SF EACH.	

![](_page_19_Picture_5.jpeg)

![](_page_20_Figure_0.jpeg)

## SHEET NOTES

![](_page_20_Figure_2.jpeg)

WEST - NE BLDG.

KEYNOTES	MATERIAL LEGEND

![](_page_20_Figure_5.jpeg)

![](_page_20_Figure_6.jpeg)

![](_page_20_Picture_7.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Picture_6.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_22_Picture_6.jpeg)

![](_page_23_Figure_0.jpeg)

KEYNOTES	LEGEND

![](_page_23_Figure_2.jpeg)

![](_page_23_Picture_3.jpeg)

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![](_page_23_Picture_7.jpeg)

## SHEET NOTES

![](_page_24_Figure_2.jpeg)

![](_page_24_Picture_3.jpeg)

![](_page_24_Picture_5.jpeg)

— (E) WOOD PANELING TO BE REFINISHED REF./ A6.13

![](_page_24_Picture_7.jpeg)

## **ROOM FINISH SCHEDULE**

				FINISH			
NO.	ROOM NAME	FLOOR FINISH	NORTH	EAST	SOUTH	WEST	BASE FINISH
100			14/01	WD1		WD1	001
100			WCI	WDI	FWPI	WDI	RB1
100							RB1
100A			DT1	DT1	DT1	EW/D1	RB1
101		LINI	PII	PII	PII	FVPI	RBI
101			T2 /DT1	T2 /DT1	T2 (DT1	T2 /DT1	TD1
102			12/P11	IZ/PII DT1	IZ/PII DT1	IZ/PII	
103		CUNI		FII			RBI
104		EXIST	EXIST	EXIST	EXIST	EXIST	EXIST
104		EXIST	EVIOT	EV/IOT	EVIOT	EVIOT	EXIST
105		EXIST	EXIST	EXIST	EXIST	EXIST	EXIST
100		EXIST	EXIST	EXIST	EXIST	EXIST	EXIST
107	STURAGE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST
108	RESTROOM	11	12/P11	12/P11	12/P11	12/P11	IBI
109	STAGE LEVEL ENTRANCE	CP11	WD1	PI1	FWP1	PI1	RB1
110	AUDIENCE CHAMBER	CPT1/LIN1	PT2	WD2/PT2	WD2/PT2	WD2/PT2	RB1
110A	MIX BOX POSITION	CPT1	PT5	PT5	-	PT5	RB1
111	PERFORMANCE PLATFORM	PT3	PT4	PT4	-	PT4	RB3
112	RESTROOM	T1	T2/PT1	T2/PT1	T2/PT1	T2/PT1	TB1
113	DRESSING ROOM	LIN2	PT1	PT1	PT1	PT1	RB2
114	CORRIDOR	LIN2	PT4	PT1	PT1	PT1	RB2
115	OFFICE	CPT2	PT1	PT1	PT1	PT1	RB2
116	DRESSING ROOM	LIN2	PT1	PT1	PT1	PT1	RB2
117	DRESSING ROOM	LIN2	PT1	PT1	PT1	PT1	RB2
118	DRESSING ROOM	LIN2	PT1	PT1	PT1	PT1	RB2
119	RESTROOM	T1	T2/PT1	T2/PT1	T2/PT1	T2/PT1	TB1
120	WOMEN'S	T1	T2/PT1	T2/PT1	T2/PT1	T2/PT1	TB1
120	WOMEN'S	T1					TB1
121	STORAGE	CON1	PT1	PT1	PT1	PT1	RB1
121	STORAGE	T1					TB1
122	CONTROL ROOM	CPT2	PT4	PT4	PT4	PT4	RB2
123	SCENE SHOP						
124	COSTUME SHOP	LIN2	PT1	PT1	PT1	PT1	RB1
125	MEETING AREA	CPT2	FWP1	PT1	PT1	PT1	RB2
126	OFFICE	CPT2	PT1	PT1	FWP1	PT1	RB2
127	PRACTICE ROOM	LIN2	FWP2	PT1	PT1	FWP2	RB1
128	PRACTICE ROOM	LIN2	PT1	FWP2	PT1	FWP2	RB1
129	PRACTICE ROOM	LIN2	FWP2	PT1	FWP2	PT1	RB2
130	Room						
131	Room						
132	Room						

I	
CEILING FINISH	REMARKS
1	
ACT1/PT1	
ACT1	
-	
ACT1	
ACT2	T2 WALL TILE UP TO 5'-0" AFF, PT1 FROM 5'-0" TO CEILING
ACT2	
EXIST	
ACT2	
ACT3	SALVAGED WD1 FROM LOBBY TO BE REFINISHED AND INSTALLED
WD3/PT2	PT2 AT UNDERSIDE OF STAGE. REF. 2/A7.18
WD2/PT2	
PT4	
ACT2	T2 WALL TILE UP TO 5'-0" AFF, PT1 FROM 5'-0" TO CEILING
ACT1	
ACT3	
ACT1	
ACT1	
ACT1	
ACT1	
ACT2	T2 WALL TILE UP TO 5'-0" AFF, PT1 FROM 5'-0" TO CEILING
ACT2	T2 WALL TILE UP TO 5'-0" AFF, PT1 FROM 5'-0" TO CEILING
ACT2	
ACT1	
ACT2	
ACT3	
ACT1	

## MATERIAL FINISH LEGEND

ID	MATERIAL	SPEC #	MANUFACTURER	MANUFACTURER'S REP	PRODUCT DESCRIPTION	COMMENTS
		0.20				
ACT1	ACOUSTIC CEILING TILE				WHITE ACT	GENERAL BUILDING ACT
ACT2	ACOUSTIC CEILING TILE					AT RESTROOMS
ACT3	ACOUSTIC CEILING TILE				BLACK ACT	AT CONTROL ROOM, STAGE LEVEL ENTRANCE AND STAGE RIGHT CORRIDOR
CON1	CONCRETE				EXISTING	
CPT1	CARPET				LOW PILE BROADLOOM CARPET	AT AUDIENCE CAHMBER
CPT2	CARPET TILE				CARPET TILE	AT OFFICES AND MEETING ROOM
FAB1	FABRIC				SEATING UPHOLSTERY	AT AUDIENCE CHAMBER SEATS
FWP1	FABRIC WRAPPED PANELS					AT LOBBY, BOX OFFICE AND OFFICE WALLS
FWP2	FABRIC WRAPPED PANELS					AT PRACTICE ROOM WALLS
LIN1	LINOLEUM				MARMOLEUM	UNDER SEATS IN AUDIENCE CHAMBER
LIN2	LINOLEUM				MARMOLEUM	AT DRESSING ROOMS, COSTUME SHOP, AND PRACTICE ROOMS
PT1	PAINT					GENERAL BUILDING WHITE
PT2	PAINT					AT AUDIENCE CAMBER WALLS, CEILING, AND UNDERSIDE OF STAGE
PT3	PAINT					AT STAGE WALLS AND CEILING
PT4	PAINT					AT STAGE FLOORING
PT5	PAINT					AT MIX BOX POSITION PARTITIONS
PT6	PAINT					AT THEATER HANDRAILS
PT7	PAINT					AT EAVES AND BEAMS
RB1	RUBBER WALL BASE					
RB2	RUBBER WALL BASE					
RES1	RESIN PANELS		3FORM			THEATER REFLECTOR
T1	CERAMIC TILE					AT ALL RESTROOM FLOORS
T2	CERAMIC TILE					AT ALL RESTROOM WALLS
TB1	TILE BASE					AT ALL RESTROOM WALL BASE
WC1	WALLCOVERING					AT LOBBY NORTH WALL
WD1	WOOD				EXISTING WOOD TO BE REFINISHED IN WATCO OIL FINISH	AT LOBBY WALLS
WD2	WOOD				EXISTING WOOD TO BE REFINISHED IN WATCO OIL FINISH	AT AUDIENCE CHAMBER WALLS
WD3	WOOD				EXISTING WOOD TO BE REFINISHED IN WATCO OIL FINISH	AT AUDIENCE CHAMBER CEILING

![](_page_25_Picture_7.jpeg)

![](_page_25_Picture_8.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_26_Picture_6.jpeg)

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![](_page_26_Picture_10.jpeg)

SYMBOL - - - - - - -	DESCRIPTION NOTE CALLOUT DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN	<u>SYMBOL</u> <u>4" CHWR</u> <u>(E) 4" CHWR</u>	DESCRIPTION NEW PIPING (SIZE-SERVICE)	<u>SYMBOLS</u>
	NOTE CALLOUT DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN	∠ <u>4" CHWR</u> ∠ (E) 4" CHWR →		XX
$\begin{pmatrix} -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ $	- NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN	<b>├</b> (E) 4" CHWR	EXISTING PIPING (SIZE-SERVICE)	
-				(XX)
-	MECHANICAL EQUIPMENT CALLOUT. SEE MECHANICAL	<del>ر</del> ی	ELBOW FACING AWAY FROM VIEWER	
	PLANS FOR EXACT LOCATION AND REQUIREMENTS	∼0	ELBOW FACING TOWARD VIEWER	XX
	SECTION CALLOUT			СОММ
			PIPE CAP	
igodot	POINT OF CONNECTION	۔ ، ۔ ۔ ۔ ،	TRANSITION, ASYMMETRIC	ECM
$\bullet$	POINT OF DISCONNECTION	→ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	TRANSITION, SYMMETRIC	VFD
<u>}</u>		·	EXPANSION JOINT (COMPENSATOR)	, <b>,</b>
	DEMOLITION LINEWORK	<u>}</u>	PIPE GUIDE	
<b>_</b> _	DIRECTION OF FLOW	·─────→ ·	PIPE ANCHOR	<b>}</b>
10"Ø CD-1		<b>;</b>	UNION, SCREWED	₽
100 CFM	- NECK SIZE AND DIFFUSER TYPE - CUBIC FEET PER MINUTE	Y	DRAIN, FUNNEL	
			PUMP	
JUCIWORK L		<u>,</u> , <u></u> ,	BALL VALVE	0000000
	DESCRIPTION	Ϋ́		\∑
▲ 16"x12" ▲	SHEET METAL DUCT	ктерт	BALL VALVE W/ ACTUATOR	
└── <u>──</u> ──	HIDDEN SHEET METAL DUCT	، بربال	BUTTERFLY VALVE	H
► <u>16"x12" (1"I</u> ) ►	INTERNALLY INSULATED SHEET METAL DUCT CLEAR INSIDE DIMENSION SHOWN LINER THICKNESS IN	'l' `		
	PARENTHESIS		BUTTERFLY VALVE W/ ACTUATOR	$\bigotimes$
	STANDARD BRANCH FOR SUPPLY AND RETURN	·ک	GATE VALVE	
$\bigcirc$	ROUND ELBOW DOWN		GATE VALVE W/ ACTUATOR	
$\bigcirc$				
			GLOBE VALVE	
-	RECTANGULAR TO ROUND TRANSITION		GLOBE VALVE W/ ACTUATOR	
۸ ۸//// ⁸ "	FLEXIBLE DUCT		THREE-WAY VALVE	
			THREE-WAY VALVE W/ ACTUATOR	
	FLEX CONNECTION		CHECK VALVE, SWING	
	BACK DRAFT DAMPER			
BDD				
FD	FIRE DAMPER		MULTI-PURPOSE VALVE	
	COMBINATION FIRE AND SMOKE DAMPER		FLOW MEASURING AND BALANCING VALVE	
FSD		,€ <u></u> ,	HOSE BIBB VALVE	
	MOTORIZED DAMPER		LOCK SHIELD MANUAL VALVE	
		، ۲ ۲	PLUG VALVE	
	BALANCING DAMPER		PRESSURE REGULATOR	
$\mathbb{H} \boxtimes \mathbb{M} \boxtimes \mathbb{M}$	SUPPLY DIFFUSER: 1-WAY/2-WAY/3-WAY/4-WAY			
$\bowtie \bowtie$	GRILLE: RETURN/EXHAUST		STRAINER, Y-TYPE	
	SUPPLY AIR DUCT SECTION		STRAINER WITH HOSE CONNECTION	
	RETURN AIR DUCT SECTION			
	EXHAUST AIR DUCT SECTION	,	PRESSURE GAUGE WITH SHUTOFF COCK	
4				
			PRESSURE GAUGE WITH SNUBBER AND SHUTOFF COCK	
	TRANSFER GRILLE OR LOUVER	<u>ب</u>		
i di		<u>ب                                    </u>	SELF-SEALING PRESSURE AND TEMPERATURE TAP	
DG	DOOR GRILLE OR LOUVER		THERMOMETER	
	SINGLE DUCT VAV BOX WITH REHEAT COIL	,][,		
	SINGLE DUCT VAV BOX WITHOUT REHEAT COIL	·}	THERMOWELL	
		<b>⊱</b> FM <b></b>	FLOW METER	
K	FILTER	⊱{FL}	FLOW REGULATOR AND FLOW LIMITING VALVE	
		}PSD }	PUMP SUCTION DIFFUSER	
		,√B],	VACUUM BREAKER	
		 ,	AIR VENT, AUTOMATIC	
	AUGESS DOUR OR ACCESS PANEL (AP) IN DUCTWORK	,, ,, , , , , , , , , , , , ,	FLEXIBLE CONNECTION	
	STATIC PRESSURE CHANGE TAG	, — <b>—</b> — , ,₩⊒,	COMBINATION FLEX-VANE STRAIGHTENER	
		₽.		
		<u>بہ ل</u>	SAFETY OR RELIEF VALVE	
		,	STEAM TRAP	
		, s j → ,	AIR SEPARATOR	

## TROL LEGEND

	DESCRIPTION
	DDC PHYSICAL POINT
	SENSOR
	SWITCH
)	COMMUNICATION GATEWAY CONNECTION TO DDC
	ELECTRONICALLY COMMUTATED MOTOR
	VARIABLE FREQUENCY DRIVE
<u>}</u>	ELECTRONIC 3-WAY VALVE
<u>_</u>	ELECTRONIC 2-WAY VALVE
<u>}</u>	ELECTRONIC BUTTERFLY VALVE
-	DAMPER WITH ACTUATOR, OPPOSED BLADE
	DAMPER WITH ACTUATOR, PARALLEL BLADE
	COOLING COIL
	HEATING COIL
	AIR FILTER BANK
M	AVERAGING AIR TEMPERATURE SENSOR

FIELD CONTROL WIRING

FIELD POWER WIRING

### **ABBREVIATIONS** ABBREVIATION DESCRIPTION

(E)	EXISTING
AAV	AUTOMATIC AIR VENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
RD	BLOWDOWN
BD	
BEC	
	BACK FLOW PREVENTER
BHP	BREAK HORSEPOWER
BLDG	BUILDING
BOB	BOTTOM OF BEAM
BOb	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
СР	CONDENSATE PUMP
СТ	COOLING TOWER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME BOX
CWFR	CONDENSER WATER FILTE
CWFS	CONDENSER WATER FILTE
CWR	CONDENSER WATER RETU
CWS	CONDENSER WATER SUPE
DB	DRY BUI B
DEG	DEGBEES
	DIAMETER
	DOWN
	DIBECT EXPANSION
FΔ	
FAT	ENTERING AIR TEMPERATI
EC	
FFF	EEECIENCY
FI	
FSP	EXTERNAL STATIC PRESSI
EW/T	
FG	
	FULL LOAD AMIPS
FUB	
FSD FT	
GA	
GALV	
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
ПВ	HOPE RIRR
HHVVK	HEATING HOT WATER RET
HHWS	HEATING HOT WATER SUP
HP	HEAT PUMP
HΡ	HORSEPOWER
IN THE EVENT A STANDARD ABB	BBREVIATIONS NOT MENTI REVIATIONS AND OTHER S

### CONTROL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
А	ALARM	PS	PRESSURE SWITCH
AFMS	AIRFLOW MONITORING STATIONS	PT	PRESSURE TRANSMITTER
AI	ANALOG INPUT	RH	RELATIVE HUMIDITY
AO	ANALOG OUTPUT	S	STATUS
CS	CURRENT SWITCH	SC	SPEED CONTROL
DI	DIGITAL INPUT	SI	SPEED INDICATOR
DO	DIGITAL OUTPUT	SP	SETPOINT
DP	DIFFERENTIAL PRESSURE	SS	START/STOP
FM	FLOW METER	Т	TEMPERATURE
FS	FLOW SWITCH	TI	TEMPERATURE INDICATOR
HOA	HANDS-OFF-AUTO	VA	DAMPER/VALVE ACTUATOR
KW	KILOWATTS	VP	VELOCITY PRESSURE
LA	LEVEL ALARM	VSH	VIBRATION SWITCH
MOD	MOTOR OPERATED DAMPER	ZC	CLOSED END SWITCH
NC	NORMALLY CLOSED	ZI	POSITION INDICATOR
NO	NORMALLY OPEN	ZO	OPEN END SWITCH
IN THE EVENT A STANDARD ABB	BBREVIATIONS NOT MENTIONED HEREIN ARE REVIATIONS AND OTHER STANDARD INDUSTR	USED, REFEREN	ICE WILL BE MADE TO ANSI Y1.1, MILITARY S.

	ABBREVIATION	DESCRIPTION
	HT	HEIGHT
	HZ	HERTZ
	ID	INSIDE DIAMETER
	IN	INCHES
	КW	KII OWATTS
	ΙΔΤ	I FAVING AIR TEMPERATI IRE
	LAT	
	MAX	MAXIMUM
	MBH	THOUSAND BTU PER HOUR
	MC	MECHANICAL CONTRACTOR
	MCA	MINIMUM CIRCUIT AMPS
	MH	MANHOLE
	MIN	MINIMUM
	MOCP	MAXIMUM OVERLOAD CIRCUIT PROTECTION
	NFA	NET FREE AREA
	NIC	NOT IN CONTRACT
	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
	OA	OUTSIDE AIR
	OAT	OUTSIDE AIR TEMPERATURE
	00	ON CENTER
SUPPLY		
N		
	POD	
	PR	PRESSURE RELIEF
	PRV	PRESSURE REDUCING VALVE
	PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
	PSIG	POUNDS PER SQUARE INCH GAUGE
	PVC	POLYVINYL CHLORIDE
	RA	RETURN AIR
E	RF	RETURN FAN
	RLA	RATED LOAD AMPS
	RPM	REVOLUTIONS PER MINUTE
	SA	SUPPLY AIR
Ξ	SF	SUPPLY FAN
TURF	SPEC	SPECIFICATION
	SS	STAINLESS STEEL
	STD	STANDARD
	TAD	TRANSFER AIR DUCT
	TDH	TOTAL DYNAMIC HEAD
	TEFC	TOTALLY ENCLOSED FAN COOLED
	TSP	
	TYP	TYPICAL
	V	VOLTS
	V \/A\/	
	VAV	
	VIR	
	VV/	WIIH
	W/O	WITHOUT
	WB	WET BULB
	WC	WATER COLUMN
	WG	WATER GAUGE
N	WPD	WATER PRESSURE DROP
Y	WT	WEIGHT
	°F	DEGREES FAHRENHEIT

TIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD INDUSTRY CONVENTIONS.

- 1. ALL WORK SHALL COMPLY WITH THE 2019 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
- 2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- 3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- 4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DRAWINGS AND SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
- 5. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- 6. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- 7. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF HVAC SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE OWNER'S REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.
- 8. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
- 9. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
- 10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 11. THIS CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM A DESIGNATED STRUCTURAL ENGINEER AND THE OWNER.
- 12. ALL PIPE ELBOWS SHALL BE LONG RADIUS UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS.
- 13. INSTALL MANUAL VOLUME DAMPERS WITHIN DUCT BRANCHES TO BALANCE AIRFLOW CFM. ON INSULATED DUCTS, MOUNT DAMPER REGULATOR ON 2" STAND-OFF BRACKET TO CLEAR INSULATION.
- 14. ALL MATERIAL EXPOSED WITHIN RA PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND SMOKE DEVELOPED INDEX NOT GREATER THAN 50. COMPLY WITH CMC-602.2.
- 15. COORDINATE ACCESS TO EQUIPMENT WITH WORK OF OTHER TRADES. PROVIDE DUCT ACCESS DOORS AND CEILING ACCESS DOORS TO ALLOW ACCESS FOR FILTER CHANGEOUT, CONTROLS ACCESS AND ACCESS TO SERVICE/REMOVE COMPONENTS INCLUDING, BUT NOT LIMITED TO, FANS, PULLEYS, SHEAVES, BELTS, ETC.

## DSA NOTES

### 1. MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30: 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

THE ANCHORAGE OF ALL MECHANICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

2. PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTE:

PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

- MP 🗆 MD 🗆 PP🗕 E 🗆 OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- 3. AIR FILTERS SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED TYPE. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER (AS SHOWN IN THE STATE FIRE MARSHAL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT PER CMC 304.0.
- 4. COMBINATION FIRE SMOKE DAMPERS SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. MECHANICAL FIRE SMOKE DAMPER DETAIL _____ ON DRAWING _____ ARE FOR REFERENCE ONLY.

## SHEET INDEX

HEET	DESCRIPTION
I-001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
IS100	SITE PLAN
-101	FIRST FLOOR PLAN
-102	ATTIC PLAN - NOT ISSUED
-401	ENLARGED PLANS - NOT ISSUED
-501	DETAILS - NOT ISSUED
-601	SCHEDULES
-602	TITLE 24 COMPLIANCE FORMS - NOT ISSUED
-701	CONTROL DIAGRAMS - NOT ISSUED

![](_page_27_Picture_81.jpeg)

![](_page_28_Figure_2.jpeg)

### GENERAL NOTES

![](_page_28_Picture_6.jpeg)

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![](_page_29_Figure_2.jpeg)

NOTES

(E) MULTI-ZONE AIR HANDLING UNIT TO BE REPLACED BY (N) AIR HANDLING UNIT WITH 10 (N) VAV REHEAT BOXES SERVING RECONFIGURED SPACES.
(E) SUSPENDED AIR HANDLING UNIT TO BE REPLACED. CONNECT (N) COILS TO (E) HHW AND CHW LINES.
(E) EXHAUST FAN TO BE REPLACED BY (N) EXHAUST FAN.
(F) EXHAUST FAN TO BE REPLACED BY (N) EXHAUST FAN.
(N) EXHAUST FAN FOR ADA RESTROOM.
(E) IN-LINE RETURN/EXHAUST FAN TO BE REMOVED.
(E) OUTSIDE AIR LOUVER TO REMAIN.
(F) OUTSIDE AIR LOUVERS TO REMAIN.
(F) DUCTWORK IN OUTLINED AREA TO BE REMOVED. PRODIVE (N) DUCTWORK SERVING REPROGRAMMED SPACES.

9 (E) HHW BRANCH SERVING NW BUILDING TO REMAIN.

- 1. ALL (E) DUCTWORK TO BE REPLACED UNLESS OTHERWISE NOTED.
- 2. ALL (E) ABOVE-GROUND HHW PIPING WITHIN THE BUILDING TO BE REPLACED UNLESS OTHERWISE NOTED.
- ALL (N) MECHANICAL UNITS SHALL BE INTEGRATED INTO CAMPUS CONTROL SYSTEM.
- 4. REFER TO EQUIPMENT SCHEDULES FOR NEW AND REPLACEMENT EQUIPMENT DETAILS.

![](_page_29_Picture_9.jpeg)

## **AIR HANDLING UNITS**

						SUPPLY FAN				RETURN FAN	١				C	OOLING COIL							HEATING CO	IL		FILTERS		
	MANUFACTURE	ER			CODE CODE		MOTOR				MOTOR		MBH	AIF	RSIDE	V	VATER SIDE	CO	IL DESCRIPTION	MBH	AIR S	DE	WAT	ER SIDE	COIL DESRIPTION	DN	OPERATING	
MARK	& MODEI		TYPE	SERVICE	QTY TOTAL OSA MIN TSP				Y TOTAL TSP	RPM BUD			TOTAL SENS									ΔΡ	EWT	LWT AP	SIZE	ROWS TYPE QUANTITY/SIZE	FF WEIGHT	REMARKS
	WODEL	LOCATION			(CFM) (CFM) (CFM)	5) BHP F		VOLIS PHASE		ВПР		PHASE (FFM)	(MBH) (MBH)		B WB	(IN WC) GPM (	°F) (°F) (FT)		(INCHES) (FPI) (FPI)		DB DB	(IN WC)	GPM (°F)	(°F) (FT)	(INCHES)	(FPI)	%) (LDO)	
AHU-1	YORK	MECHANICAL ROOM 114	CUSTOM	MAIN THEATER BUILDING	- 15,300			208 3 -	15,300 -		208	3 -						-		-		-						-

## FAN COIL UNITS

					SUF	PPLY FAN				CO	oling						HEATIN	NG			FI	LTER	E	LECTRIC	CAL		
MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	AIRFLOW (CFM)	ESP (WC)	HP	TOT (MBH)	SENS (MBH)	EAT (°FDB/°FWB)	EWT (°F)	CHILLEI LWT (°F)	D WATEF GPM	R P (PSI)	SENS (MBH)	EAT (°FDB/°FWB)	H EWT (°F)	EATING H LWT (°F)	HOT WATE	R P (PSI)	%	TYPE	FLA	MCA	MOCP	OPERATING WEIGHT (LBS)	REMARKS
FCU-1	YORK	MEETING AREA 105	4-PIPE	NE BUILDING	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

## 

EXHA	AUSI FAN	N														
	MANUFACTURER					FAN				N	IOTOR				OPERATING	
MARK	& MODEL	LOCATION	TYPE	SERVICE	AIRFLOW (CFM)	ESP (IN WG)	RPM	HP	BHP	VOLTS	PHASE	RPM	ENCLOSURE	SONES	WEIGHT (LBS)	REMARKS
EF-25	GREENHECK CSP	MECHANICAL ROOM 114	CEILING CABINET	-	600	-	-	-	-	115	1	-	-	-	-	-
EF-26	GREENHECK CSP	ROOM 131	CEILING CABINET	-	470	-	-	-	-	115	1	-	-	-	-	-
EF-27	GREENHECK CSP	ROOM 139	CEILING CABINET	-	210	-	-	-	-	115	1	-	-	-	-	-
EF-34	GREENHECK CSP	ELECTRICAL ROOM & GENEARAL STORAGE 116	CEILING CABINET	-	290	-	-	-	-	115	1	-	-	-	-	-
EF-ADA	GREENHECK CSP	ADA RESTROOM 110	CEILING CABINET	-	70	-	-	-	-	115	1	-	-	-	-	-

![](_page_30_Picture_8.jpeg)

**M-601** 

## LEGEND

_____

-----

 $H \rightarrow$ 

----

- _____

ЖX

_____

SYMBOL	DESCRIPTION
-	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
-	PLUMBING FIXTURE CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
-	EQUIPMENT CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
•	POINT OF CONNECTION
$\bullet$	POINT OF DISCONNECTION
	NEW PIPE (SIZE-SERVICE)
2 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXISTING PIPE/EQUIPMENT
¥	DEMOLISHED PIPE/EQUIPMENT
<u>}</u>	SANITARY VENT
<u> </u>	DOMESTIC / INDUSTRIAL HOT WATER RETURN
<u>}</u>	DOMESTIC / INDUSTRIAL HOT WATER SUPPLY
<u>} </u>	DOMESTIC / INDUSTRIAL COLD WATER
▶⊂	VALVE AT DROP
▶○	VALVE AT RISE
e}	ELBOW DOWN
o}	PIPE TEE UP & DOWN OR ELBOW UP
?	PIPE TEE DOWN
<u>}                                    </u>	PIPE TEE UP
	SOLENOID VALVE
	GATE VALVE
<u>≻</u> −−−7	BALL VALVE
<u>}</u> →{\}7	BALANCING VALVE
<u>р</u>	PRESSURE REDUCING VALVE
	CHECK VALVE, SWING
·	PLUG VALVE
	STRAINER, Y-TYPE
FM	FLOW METER
	BACKFLOW PREVENTER
<u>}</u> }	HOSE BIBB
	FLOOR DRAIN
I	FLOOR SINK, 1/2 GRATE
	AREA DRAIN / INDUSTRIAL RECEPTOR
$\otimes$	SHUT-OFF VALVE IN YARDBOX
$\Theta$	FLOOR CLEANOUT
Φ	CLEANOUT TO GRADE
I <del>L</del>	WALL CLEANOUT
P	WATER HAMMER ARRESTOR
•	TRAP PRIMER

## ABBREVIATIONS

![](_page_31_Figure_5.jpeg)

## PIPE SYSTEM ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AR AW AWV	ARGON ACID WASTE ACID VENT
CO2	CARBON DIOXIDE
C2H4	METHANE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CW	DOMESTIC COLD WATER
DI	
F	FIRE PROTECTION WATER SUPPLY
G	LOW PRESSURE NATURAL GAS
GW	GREASE WASTE
GWV L	
	HELLIM
ΗΡΔ	HIGH PRESSURE COMPRESSED AIR
HPG	HIGH PRESSURE GAS
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
IHWR	INDUSTRIAL HOT WATER RETURN
IW	INDIRECT WASTE
LN2	LIQUID NITROGEN
MPG	MEDIUM PRESSURE GAS
N2	NITROGEN
02	OXYGEN
OD	OVERFLOW DRAIN
S	SANITARY
SD	STORM DRAIN
SSD	SUB SOIL DRAINAGE
IW	
IVVK	
V	
VAC	
VV	WASIE

## GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE 2019 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
- 2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- 3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL". 4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS /
- SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
- 5. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
- 6. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL PLUMBING SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN. 7. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS,
- AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD OR REVIT. 8. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR
- REVIEW WITH THE FACILITY TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE FACILITY INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- 9. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART. DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND / OR ADDITIONS.
- 10. PIPING THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. W1001. SEE ARCHITECTURAL PLANS FOR ALL WALL LOCATIONS.
- 11. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- 12. ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.
- 13. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS. 14. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT
- CONNECTIONS. 15. ALL SOIL, WASTE, STORM DRAIN, ACID WASTE, GREASE WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.
- 16. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIXTURES. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
- 17. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, ROOF, OVERFLOW DRAINS AND FLOOR SINKS.
- 18. PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN THE FOLLOWING LOCATIONS (ONLY NON-FERROUS ARRESTORS MAY BE INSTALLED IN ANY WATER SYSTEM):
- A. WATER LINES TO LAVATORY HEADERS, WATER CLOSET AND URINAL HEADERS, SERVICE SINKS, KITCHEN SINKS, WASH FOUNTAINS, DRINKING FOUNTAINS, LABORATORIES WITH MEDICAL TYPE FAUCETS AND ON WASH SINKS HAVING 3 OR MORE STATIONS AND ALL OTHER QUICK CLOSING FIXTURE SUCH AS CLOTHES WASHERS, AS CLOSE TO FIXTURE AS POSSIBLE. BETWEEN LAST 2 FIXTURES WHEN 3 OR MORE FIXTURES, OTHER THAN THOSE LISTED IN "A" ABOVE, ARE SERVED BY A COMMON HEADER.
- B. WHEN ARRESTOR SHALL BE INSTALLED IN WALL OR FURRING, FURNISH WITH AN ACCESS PLATE LARGE ENOUGH TO PERMIT REMOVAL OF ARRESTOR. ACCESS PLATE SHALL BE A MINIMUM OF 2 INCHES LARGER IN EACH DIRECTION THAN ARRESTOR AND MINIMUM 12" X 12".
- 19. CLEANOUTS SHALL BE PROVIDED PER 2019 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING LOCATIONS:
- A. AT EACH BASE OF ROOF DRAIN DOWNSPOUTS.
- B. AT EACH BASE OF WASTE STACK.
- C. AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING .
- D. AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.
- E. AT EACH HORIZONTAL DRAINAGE PIPE UPPER TERMINAL
- F. ABOVE EACH URINAL.
- G. BELOW EACH SINK.
- 20. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET CALGREEN MANDATORY REQUIREMENT OF 20% REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3.
- 21. UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO STRUCTURAL ELEMENTS BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO START WORK.

## SHEET INDEX

<u>SHEET</u>	DESCRIPTION
P-001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
PS100	SITE PLAN - NOT ISSUED
P-100	UNDERGROUND PLAN - NOT ISSUED
PD101	FIRST FLOOR DEMOLITION PLAN
P-101	FIRST FLOOR PLAN
P-102	ATTIC PLAN - NOT ISSUED
P-401	ENLARGED PLANS - NOT ISSUED
P-501	DETAILS - NOT ISSUED
P-601	SCHEDULES

![](_page_31_Picture_40.jpeg)

![](_page_31_Picture_41.jpeg)

![](_page_32_Figure_2.jpeg)

#### GENERAL NOTES A. DEMO EXISTING FLOOR SLAB AND EXTERIOR FLATWORK

- TO INSTALL ALL NEW UNDERSLAB PLUMBING. B. EXISTING PIPING ABOVE CEILING AND IN EXISTING WALLS BEING DEMOLISHED, THAT IS NOT BEING REUSED, SHALL BE REMOVED. COORDINATE EXTENT OF DEMOLITION WITH
- THE ARCHITECT AND THE GENERAL CONTRACTOR. C. ALL (E) RESTROOM PLUMBING FIXTURES TO BE REMOVED AND REPLACED UNLESS OTHERWISE NOTED.
- D. REFER TO STRUCTURAL FOR TRENCHING AND SLAB PATCHING REQUIREMENTS.

### NOTES

![](_page_32_Figure_9.jpeg)

2 TO REMAIN. PROTECT IN PLACE.

![](_page_32_Picture_11.jpeg)

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![](_page_33_Figure_2.jpeg)

### GENERAL NOTES

- A. PROVIDE SHUTOFF VALVE BETWEEN NEW AND EXISTING DOMESTIC COLD WATER AND DOMESTIC HOT WATER POINTS OF CONNECTION.
- B. REFER TO STRUCTURAL FOR TRENCHING AND SLAB PATCHING REQUIREMENTS.
- C. ALL (E) RESTROOM PLUMBING FIXTURES TO BE REPLACED UNLESS OTHERWISE NOTED.
- D. ALL NEW PLUMBING FIXTURES TO CONNECT TO EXISTING CW/HW, WASTE, AND VENT MAINS BELOW GRADE, IN WALLS, AND/OR ABOVE CEILING WITHIN THE BUILDING.

### NOTES

- 1 AREA NOT IN PLUMBING SCOPE.
- 2 PROVIDE 1-1/4" CW, 4" W DOWN, AND 2" V UP FROM WATER CLOSET (WC-1/WC-2).
- 3 PROVIDE 3/4" CW, 2" W DOWN, AND 1-1/2" V UP FROM URINAL (U-1/U-2). PROVIDE WCO ABOVE FIXTURE.
- 4 PROVIDE 3/4" CW/HW, 2" W DOWN AND 1-1/2" V UP FROM LAVATORY (L-1/L-2/L-3).
- LAVATORY (L-1/L-2/L-3).
- 5 PROVIDE 2" W DOWN AND 1-1/2" V UP FROM FLOOR DRAIN (FD-1).
- 6 PROVIDE 3/4" CW TO SERVE HOSE BIBB (HB-1) IN RECESSED CABINET BELOW LAVATORY.
- 7 PROVIDE 3/4" CW/HW, 2" WASTE DOWN, AND 1-1/2" VENT UP TO SERVE SHOWER (SH-1).
- 8 PROVIDE 3/4" HW AND 3/4" CW FROM HEADER TO SERVE MOP SINK (MS-1).
- PROVIDE 3/4" CW/HW, 2"S DOWN, AND 1-1/2"V UP TO SERVE KITCHEN SINK (S-1).
- KITCHEN SINK (S-1).
   TO REMAIN. PROTECT IN PLACE.
- 11 CONNECT TO EXISTING UTILITIES IN EXISTING RESTROOM AND EXTEND TO NEW RESTROOM.

![](_page_33_Picture_21.jpeg)

P-101

## FIXTURE SCHEDULE

	FIXTURE	MIN. ROUGH-IN SIZES			6	FLOW	
MARK		CW	HW	S OR W	V	RATE	REMARKS
WC-1	WATER CLOSET WALL-MOUNTED (ACCESSIBLE)	1½"	-	4"	2"	1.1 GPF	
WC-2	WATER CLOSET WALL-MOUNTED	1½"	-	4"	2"	1.1 GPF	
U-1	URINAL (ACCESSIBLE)	3/1" /4	-	2"	11⁄2"	0.0 GPF	
U-2	URINAL	³ ⁄4"	-	2"	11⁄2"	0.0 GPF	
L-1	LAVATORY COUNTER MTD. (ACCESSIBLE)	1/2"	1⁄2"	2"	1½"	0.35 GPM	
L-2	LAVATORY COUNTER MTD.	1/2"	1⁄2"	2"	11⁄2"	0.35 GPM	
L-3	LAVATORY WALL-HUNG (ACCESSIBLE)	1⁄2"	1⁄2"	2"	1½"	0.35 GPM	
S-1	SINK (ACCESSIBLE)	1/2"	1⁄2"	2"	11⁄2"	1.5 GPM	
SH-1	SHOWER (ACCESSIBLE)	1⁄2"	1⁄2"	-	-	1.5 GPM	
MS-1	MOP SINK (FLR., CORNER MTD.)	3/1" /4"	³ ⁄4"	3"	2"	2.2 GPM	
FD-1	FLOOR DRAIN	1⁄2"	-	2"	11⁄2"		
HB-1	HOSE BIBB (INTERIOR/EXTERIOR)	3/" /4	-	-	-		
NOTES: A	ALL FIXTURES SHALL BE PROVID	ED WITH MALL FIXTUR	11NIMUM RORES. PLUME	OUGH-IN CO BING CONTF	ONNECTIC RACTOR S	ONS AS IND SHALL FURI	CATED IN THIS SCHEDULE OR PER MANUFACTURERS RECOMMENDATIONS. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND IISH AND INSTALL ALL TRIMS, FLUSH VALVES, TAILPIECES, STRAINERS, P-TRAPS, TRAP ARMS, HOT & COLD WATER STOPS AND FAUCETS AS REQUIRED.

B. ALL FIXTURES AND/OR COMPONENTS AS PART OF THE PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. C. OPENINGS IN GRATINGS OR STRAINERS LOCATED IN PEDESTRIAN WAYS OR IN PATH OF TRAVEL (P.O.T.) SHALL NOT ALLOW PASSAGES OF A SPHERE MORE THAN 1/2" DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT LONG

DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL IN COMPLIANCE WITH SECTION 11B-302.3.

PII	PIPING MATERIALS				
1.	DRAIN PIPING SEWER (S), WASTE (W) & STORM DRAIN (SD) <u>BELOW GRADE</u> :	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GAS PROVIDE PLASTIC PIPE FROM RECEPTORS COLLECTING DISCHARGE FROM CARBONATED BEV			
2.	DRAIN PIPING SEWER (S), WASTE (W) & STORM DRAIN (SD) <u>ABOVE GRADE</u> :	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GAS			
3.	VENT (V) PIPE FOR SEWER & WASTE ABOVE GRADE:	CAST IRON "NO-HUB" PIPE CONFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GAS			
4.	DOMESTIC WATER (CW, HW, HWR) PIPING <u>BELOW GRADE</u> :	TYPE 'K' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPE ALL UNDERGROUND PIPING.			
5.	DOMESTIC WATER (CW, HW, HWR) PIPING <u>ABOVE GRADE</u> :	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPE			
6.	CONDENSATE DRAIN (CD) PIPING:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPE SHALL BE INSULATED. ALL EXPOSED PIPING INCLUDING OVERFLOW CONDENSATE SHALL BE			
7.	PUMPED DISCHARGE (PD) - FORCED MAIN PIPING <u>BELOW GRADE</u> :	TYPE 'K' HARD COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT AVOID UNNECESSARY JOINTS BELOW SLAB. PIPE WRAP ALL UNDERGROUND PIPING.			
8.	INSULATION OF DOMESTIC HOT WATER SUPPLY (HW), RETURN (HWR) AND CONDENSATE DRAIN (CD) PIPING:	GLASS FIBER PIPE INSULATION WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547 SEAL ALL JOINTS WITH THE FACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS. JOHNS MAN			
9.	GAS PIPING:	SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO ASTM A 53 WITH 150 PSIG MALLEABLE IRC WHEN USED FOR MEDIUM PRESSURE. OUTDOOR PIPING EXPOSED TO ATMOSPHERE SHALL B PRIMER, EXTERIOR ALKYD ENAMEL MATCHING TOPCOAT, SEMI-GLOSS AND GRAY IN COLOR.			
10.	GAS PIPING BELOW GRADE: (EXTERIOR SITE DISTRIBUTION)	POLYETHYLENE PIPE (PE) ORANGE OR YELLOW IN COLOR CONFORMING TO ASTM D 2513, SDI SOCKET-FUSION TYPE OR ASTM D-3261 WITH DIMENSIONS MATCHING PE PIPE. P.E. TRANSITI COATING FOR UNDERGROUND PIPING, FACTORY APPLIED, THREE-LAYER COATING OF EPOX			
11.	PIPE PROTECTION: ALL UNDERGROUND METAL AND/OR ANSI/AWWA C105/A21.5.	LIC PIPE WETHER BURIED OR ENCASED SHALL BE WRAPPED WITH ANTI-CORROSIVE 40 MIL PVC TAP			
12.	PIPE PROTECTION: PROVIDE NON-CONDUCTING	G DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS.			
13.	PIPE PROTECTION: ALL EXPOSED METALLIC PIP	E IN SUPPORT SPACES OPEN TO ATMOSPHERE SHALL BE PAINTED WITH RUST INHIBITING PAINT.			
14.	TRACER WIRE: ALL UNDERGROUND PLASTIC PI	PE SHALL BE INSTALLED WITH INSULATED COPPER WIRE, TYPE TW, SIZE AWG#12 PLACED AND SEC			
15.	QUALITY ASSURANCE: THE PIPING SYSTEMS SH	ALL BE CONSTRUCTED FROM MATERIALS EXTRUDED AND MOLDED USING THE SAME COMPOUND			

NFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND HEAVY DUTY, SHIELDED, STAINLESS-STEEL 4 OR 6 BAND COUPLINGS. PIPE WRAP ALL UNDERGROUND PIPING. RECEPTORS COLLECTING DISCHARGE FROM CARBONATED BEVERAGE MACHINES (SODA FOUNTAINS). TRANSITION BACK TO CAST-IRON @ 10 FT. AWAY FROM RECEPTOR.

NFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND HEAVY DUTY, SHIELDED, STAINLESS-STEEL 4 OR 6 BAND COUPLINGS.

NFORMING TO CISPI 301 AND ASTM A 888 WITH NEOPRENE GASKET AND STANDARD, SHIELDED, STAINLESS-STEEL 2 OR 4 BAND COUPLINGS.

TO DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER FITTINGS AND LEAD-FREE BRAZED JOINTS. AVOID UNNECESSARY JOINTS BELOW SLAB. PIPE WRAP

D DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD FREE-SOLDER JOINTS.

D DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD-FREE SOLDER JOINTS. ALL CONDENSATE DRAIN PIPING WITHIN THE BUILDING POSED PIPING INCLUDING OVERFLOW CONDENSATE SHALL BE PAINTED TO MATCH WALL AND/OR CEILING COLOR. COORDINATE COLOR WITH ARCHITECT. G, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER PRESSURE FITTINGS AND BRAZED JOINTS. S BELOW SLAB. PIPE WRAP ALL UNDERGROUND PIPING.

N WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547. 1-INCH THICK FOR PIPE SIZES 1" & SMALLER. 11/2-INCH THICK FOR PIPE SIZES 11/4" INCHES & LARGER. ACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS. JOHNS MANVILLE MICRO-LOK 'HP' OR EQUAL.

PIPE CONFORMING TO ASTM A 53 WITH 150 PSIG MALLEABLE IRON THREADED FITTINGS. WELDED JOINTS FOR PIPE SIZES 21/2" AND LARGER OR WELDED THROUGHOUT ESSURE. OUTDOOR PIPING EXPOSED TO ATMOSPHERE SHALL BE PAINTED WITH RUST INHIBITING PAINT. MINIMUM PAINT REQUIREMENTS: ALKYD ANTI-CORROSIVE METAL

NGE OR YELLOW IN COLOR CONFORMING TO ASTM D 2513, SDR-11 AND IAPMO INSTALLATION STANDARD IS-12 WITH PE FITTINGS CONFORMING TO ASTM D-2683, M D-3261 WITH DIMENSIONS MATCHING PE PIPE. P.E. TRANSITION FITTINGS, FACTORY-FABRICATED FITTINGS WITH PE COMPLYING WITH ASTM D-2513, SDR-11. PROTECTIVE ID PIPING, FACTORY APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE AND PE.

SED SHALL BE WRAPPED WITH ANTI-CORROSIVE 40 MIL PVC TAPE AND PRIMED OR INSTALLED IN 8 MIL POLYETHYLENE SLEEVE CONFORMING TO ASTM D-1248

ATED COPPER WIRE, TYPE TW, SIZE AWG#12 PLACED AND SECURED ON TO THE TOP OF THE MAINS AND BRANCHES WITH ALL WIRE TO WIRE CONNECTIONS SOLDERED FOR CONTINUITY. ERIALS EXTRUDED AND MOLDED USING THE SAME COMPOUND MANUFACTURER.

![](_page_34_Picture_21.jpeg)

**P-601** 

LEGEND	
SYMBOL	DESCRIPTION
-	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
-	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
 	NEW LINEWORK
<u>}</u>	EXISTING LINEWORK
<u> → → → → → → → → → → → → → → → → → → →</u>	DEMOLISHED LINEWORK
<del>،</del>	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
·	CONDUIT EXPOSED
⊱ — — →	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
⊱	CONDUIT EMERGENCY
<₩	MULTI-CHANNEL RACEWAY
	CONDUIT TURNED UP
<b></b>	CONDUIT CAPPED
<u>→ A-1</u>	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
<del>، باببر ،</del>	3/4" CONDUIT, TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE
6	- DIAGONAL DENOTES GROUND WIRE
°/	
6	SWITCH
	CIRCUIT BREAKER
°_°	2-WAY SWITCH, TRANSFER SWITCH
	FUSE
	TRANSFORMER
上 —	GROUND CONNECTION
	MOTOR - SINGLE PHASE EBACTIONAL OB INTEGRAL HORSEPOWER
<u>ECM</u> ₹	ELECTRONIC CIRCUIT MONITOR
VED]	
	DANEL
	TANLL
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	COMBINATION STARTER/DISCONNECT SWITCH
Ş ^M	SWITCH MOTOR RATED
	SPLICE
	TERMINATION
Δ	EXISTING TERMINATION
₹ 52 ↓	MEDIUM VOLTAGE - AIR CIRCUIT BREAKER DRAWOUT BREAKER
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH
<b>-</b>	MEDIUM VOLTAGE MODULAR SPLICE MEDIUM VOLTAGE EXISTING MODULAR SPLICE
	2X4 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X4 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	2X2 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE. 2X2 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTEF INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X · · · · · V	EMERGENCY LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP LINEAR PENDANT LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE
$^{X} \nabla$ $\nabla$	TRACK LIGHTING - UPPER CASE LETTER INDICATES LIGHT FIXTURE
y y	CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
<u>Х</u> у	LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X Line of the second s	LED STRIP LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING
ý	CONTROL ZONE.

HO HO D

HO HO D JUNCTION BOX

SPECIAL RECEPTACLE

RECESSED POKE-THROUGH - POWER/TEL/DATA

RECESSED POKE-THROUGH

RECESSED FURE-THROUGH - POWER/TEL/DATA

0 00 20A, 125V DUPLEX RECEPTACLE FIRE RATED TYPE

⊕ ⊕ ▼ 20A, 125V QUAD RECEPTACLE FIRE RATED TYPE

REFER TO DRAWINGS FOR NEMA CONFIGURATION

<u>SYMBOL</u>

×Оу

וv

×фу

**DESCRIPTION** 

BATTERY BACKUP

DOWNLIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE

CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.

EMERGENCY DOWNLIGHT FIXTURE FED FROM GENERATOR/ INVERTER/

PENDANT LUMINAIRE - UPPER CASE LETTER INDICATES LIGHT FIXTURE

CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.

No.         Will wonthing with represented about the transmission of t	^x ⇔ _y	WALLWASH LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
Image: Section of the section of t	хҊ [,]	WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
Image: Section of the control of	¥	EMERGENCY WALL MOUNTED LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
○     POLETTOP LUNINARE       □     POLE MOUNTED LUNINARE       ○     IN GITWO SENSOR       ○     IN GITWO SENSOR       ○     IN GITWO SENSOR       ○     IN GITWO SENSOR SWITCH       ○     IN G	- <b>\$</b> -	BOLLARD LUMINAIRE
Image: Construction Luminates Single Head       Image: Construction Luminates Could Head       Image: Construction Local Could Head       Image: Construction Local Could Head       Image: Counter Luminates Counter Coun	0	POST TOP LUMINAIRE
Image:	⊡⊷	POLE MOUNTED LUMINAIRE, SINGLE HEAD
Image:		POLE MOUNTED LUMINAIRE, DOUBLE HEAD
POLE MOUNTED LUMINANE, OLIAD HEAD         IN GRADE LUMINANE,         IN GRADE LUMINANE,      <		POLE MOUNTED LUMINAIRE, TRIPLE HEAD
In GRADE LUMINARE         Image: State		POLE MOUNTED LUMINAIRE, QUAD HEAD
PATHWAY LUMINARE       V     LANDSCAPE FXTURE       V     LANDSCAPE FXTURE       V     SHULDED BOD DENOTES NUMBER OF ACCES       V     JUNCTON BOX       V     PHOTOCELL FOR EXTERIOR APPLICATIONS       V     DATUGHT SENSOR: CELLING MOUNTED       V     RELAY       V     RELAY       V     MOTON SENSOR: CELLING MOUNTED       V     MOTON SENSOR: SWITCH       V     DIGTAL TIMER SWITCH       V	$\otimes$	IN GRADE LUMINAIRE
V     LANDSCAPE FXTURE       V     SHADED SIDE DENOTIES NUMBER OF FACES       O     JUNCTION ROX       IMAGED SIDE DENOTIES NUMBER OF FACES       O     JUNCTION ROX       IMAGED SIDE DENOTIES NUMBER OF FACES       IMAGED SIDE SIDE SIDE SIDE SIDE SIDE SIDE SI		PATHWAY LUMINAIRE
Image: Stratection is a serie of the serie of t	$\mathbf{\hat{A}}$	LANDSCAPE FIXTURE
●     JUNCTION BOX       ●     PHOTOCELL FOR EXTERIOR APPLICATIONS       ●     DAYLIGHT SENSOR - CELING MOUNTED       ●     RELAY       ●     EVERGENCY RELAY UL SALCOMPLIANT       ●     MOTION SENSOR - CELING MOUNTED       ●     MOTION SENSOR - CELING MOUNTED       ●     MOTION SENSOR - CERING MOUNTED       ●     MOTION SENSOR SWITCH       ●     DIGITAL TIMER SWITCH       ●     MOTION SENSOR SWITCH       ●     DIGITAL TIMER SWITCH       ●     MODULAR FURNITURE - ROOR BOX FEED CONNECTION       ●     MODULAR FURNITURE - ROOR BOX FEED CONNECTION       ●     MODULAR FURNITURE - ROOR BOX FEED CONNECTION       ●     MODULAR FURNITURE - SURFACE MOUNTED       ●		EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. SHADED SIDE DENOTES NUMBER OF FACES
Image: Section of the section of th	0	JUNCTION BOX
Image: Construction     DAVELIGHT SENSOR - CELLING MOUNTED       Image: Construction     RELAY       Image: Construction     MOTION SENSOR - CENTRA OUNTED       Image: Construction     MOTION SENSOR - CENTRA OUNTED       Image: Construction     MOTION SENSOR - CENTRA OUNTED       Image: Construction     MOTION SENSOR - CONNER OR WALL MOUNTED       Image: Construction     MOTION SENSOR WITH ABLE/CONRIDOR LENS - CELING MOUNTED       Image: Construction     LIGHTING CONTROL NETWORK DEVICE       Image: Construction     DIGITAL TIMER SWITCH       Image: Construction     DIGITAL TIMER SWITCH       Image: Construction     DIGITAL DIMMING SWITCH       Image: Construction     DIGITAL DIMMING SWITCH       Image: Construction     Construction       Image: Construction     Construction <tr< th=""><th>©</th><th>PHOTOCELL FOR EXTERIOR APPLICATIONS</th></tr<>	©	PHOTOCELL FOR EXTERIOR APPLICATIONS
Image:	DS	DAYLIGHT SENSOR - CEILING MOUNTED
Image:	R	RELAY
Image: Motion Sensor - CEILING MOUNTED         Image: Motion Sensor - CORNER OR WALL MOUNTED         Image: Motion Sensor With AsLE-CORRIDOR LENS - CEILING MOUNTED         Image: Motion Sensor With AsLE-CORRIDOR LENS - CEILING MOUNTED         Image: Motion Sensor With AsLE-CORRIDOR LENS - CEILING MOUNTED         Image: Motion Sensor With AsLE-CORRIDOR LENS - CEILING MOUNTED         Image: Motion Sensor Switch         Image: Motion Sensor Motion Sensor Switch         Image: Motion Sensor Motion Sensor Switch         Image: Motion Sensor Motion Sensor Motion Control Station         Image: Motion Sensor Motion Sensor Switch         Image: Motion Sensor Motion Sensor Motion Sensor Motion Sensor         Image: Motion Sensor Motion Sensor Motion Sensor         Image: Motion Sensor <th>ER</th> <th>EMERGENCY RELAY UL 924 COMPLIANT</th>	ER	EMERGENCY RELAY UL 924 COMPLIANT
Image:	М	MOTION SENSOR - CEILING MOUNTED
Image: Montion Sensor with AsslerConfinition Lens - Cellung Mounted         Image: Montion Sensor With AsslerConfinition and Davlight Sensor         Image: Montion Sensor Switch         Image: Montion Sensor Sensor Sensor Sensor Sensor	M	MOTION SENSOR - CORNER OR WALL MOUNTED
Image: Combination Motion AND DAYLIGHT SENSOR         Image: Combination Motion AND DAYLIGHT SENSOR         Image: Combination Motion AND DAYLIGHT SENSOR         Image: Combination Motion Sensor Switch         Image: Combination Motion Sensor Sensor Switch         Image: Combination Motion Sensor Switch         Image: Combination Motion Sensor Switch         Image: Combination Switch         Image: Combin Switch         Ima	<m></m>	MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
Image: Instant Control Network Device         Image: Instant Control Device: Instant Control Network Device         Image: Instant Control Device: Instant Control Network Device         Image: Instant Control Device: Instant Device Device	MD	COMBINATION MOTION AND DAYLIGHT SENSOR
Image:	Ν	LIGHTING CONTROL NETWORK DEVICE
Image: Motion Sensor Switch         Image: Low Voltage Switch	TM	DIGITAL TIMER SWITCH
Image: Construction       Low Voltage switch         Image: Construction       District Dimmen Master switch         Image: Construction       District Dimmen Master Switch         Image: Construction       District Dimmen Master Switch         Image: Construction       GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION         Image: Construction       GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION         Image: Construction       Modular Furniture - Base Power while Feed Connection         Image: Construction       Modular Furniture - Floor Box Feed Connection         Image: Construction Construction       Modular Furniture - Power Pole Feed Connection         Image: Construction Construction       Modular Furniture - Power Pole Feed Connection         Image: Construction Construction       PanelBoard - Recessed Mounted         Image: Construction Panel - SURFACE MOUNTED       PanelBoard - SURFACE MOUNTED         Image: Construction Panel - Board       Single Pole Switch - Board         Image: Single Pole Switch - Board       Single Pole Switch - Board         Image: Single Pole Switch (48' AFF Maximum)       Image: Single Pole Switch - Generation         Image: Single Pole Switch (48' AFF Maximum)       Image: Single Pole Switch - Generation         Image: Single Pole Switch (48' AFF Maximum)       Image: Single Pole Switch - Generation         Image: Switch (48' AFF Maximum)	MS T	MOTION SENSOR SWITCH
Image:	LV	LOW VOLTAGE SWITCH
Image: Construction       Digital DIMMING SWITCH         Image: Construction       GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION         Image: Construction       MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       MODULAR FURNITURE - POWER POLE FEED CONNECTION         Image: Construction       POWER POLE SURFACE MOUNTED         Image: Construction       POWER POLE SURFACE MOUNTED         Image: Construction       PONELBOARD - SURFACE MOUNTED         Image: Construction       POWER POLE SHALL BE MOUNTED +48' MAX AND + 36''         Image: Construction       POWER POLE SWITCH (48' AFF MAXIMUM)         Image: Construction       Image: Construction         Image: Construction       Con	DM	DIMMER MASTER SWITCH
Image: State of the state	₽	DIGITAL DIMMING SWITCH
Image: Provide the state of the state o	G	GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
Image: Sector of the sector	Φ	THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
Image: Strate of the strate	-~_O+	MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
Image: Constraint of the second se	⊠[]]	MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
ILIGHTING CONTROL PANEL - SURFACE MOUNTED         ILIGHTING CONTROL PANEL - SURFACE MOUNTED         PANELBOARD - RECESSED MOUNTED         PANELBOARD - SURFACE MOUNTED         ILIGHTING CONTROL PANEL / BOARD         ILIGHTING CONTROL PANEL / BOARD         SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36"         SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36"         SINGLE POLE SWITCH (48" AFF MAXIMUM)         SINGLE POLE SWITCH (48" AFF MAXIMUM)         SINGLE SWITCH (48" AFF MAXIMUM)         SUFFACE         PUSHBUTTON SWITCH         PUSHBUTON SWITCH <th>⊠0</th> <th>MODULAR FURNITURE - POWER POLE FEED CONNECTION</th>	⊠0	MODULAR FURNITURE - POWER POLE FEED CONNECTION
PANELBOARD - RECESSED MOUNTED         PANELBOARD - SURFACE MOUNTED         PANELBOARD - SURFACE MOUNTED         DISTRIBUTION PANEL/ BOARD         Single POLe SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36"         Single POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36"         Single POLE SWITCH, MAXIMUM         Single POLE SWITCH (48" AFF MAXIMUM)         Single POLE SWITCH (		LIGHTING CONTROL PANEL - SURFACE MOUNTED
PANELBOARD - SURFACE MOUNTED         DISTRIBUTION PANEL/ BOARD         SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48' MAX AND +36' MIN FROM THE CENTER OF DEVICE:         S ³ SWITCH 3-WAY (48' AFF MAXIMUM)         S ¹ TIMER SWITCH (48' AFF MAXIMUM)         S ^{ab} DUAL SWITCH (48' AFF MAXIMUM)         SuffACE       G=GFI, WP=WEATHERPROOF         SUFFACE       C=CELLING         C       CON OR CELLING         C       CON TROLLES OTHERWISE NOTED         WOUNTED +15' AFF, UNLESS OTHERWISE NOTED <th>-</th> <th>PANELBOARD - RECESSED MOUNTED</th>	-	PANELBOARD - RECESSED MOUNTED
DISTRIBUTION PANEL/ BOARD         S       SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36"         MIN FROM THE CENTER OF DEVICE:         S ³ SWITCH 3-WAY (48" AFF MAXIMUM)         ST       TIMER SWITCH (48" AFF MAXIMUM)         S ^{4b} DUAL SWITCH (48" AFF MAXIMUM)         PUSHBUTTON SWITCH (48" AFF MAXIMUM)         PUSHBUTTON SWITCH         RECESSED ON WALL       G=GFI, WP=WEATHERPROOF         SUFFACE       G=GFI, WP=WEATHERPROOF         FLOOR OR CEILING       C=CEILING         PUSHBUTTON SWITCH       204, 125V DUPLEX RECEPTACLE         MOUNTED +15" AFF, UNLESS OTHERWISE NOTED         PUSHBUTTON TED +15" AFF, UNLESS OTHERWISE NOTED         PUSHBUTED +15" AFF, UNLESS OTHERWISE NOTED         PUSHE       204, 125V DUPLEX RECEPTACLE         MOUNTED +15" AFF, UNLESS OTHERWISE NOTED         PUSHE       204, 125V CONTROLLED DUPLEX RECEPTACLE         PUSHE       204, 125V CONTROLLED DUPLEX RECEPTACLE         PUSHE       204, 125V CONTROLLED DUPLEX RECEPTACLE	-	PANELBOARD - SURFACE MOUNTED
Single Pole Switch, Device Shall BE MOUNTED +48" MAX AND +36"         S ³ Switch 3-way (48" AFF MAXIMUM)         S ¹ Timer Switch (48" AFF MAXIMUM)         S ^{4D} DUAL Switch (48" AFF MAXIMUM)         S ^{4D} DUAL Switch (48" AFF MAXIMUM)         PUSHBUTTON SWITCH       PUSHBUTTON SWITCH         RECESSED ON WALL       G=GFI, WP=WEATHERPROOF         SUPFACE       G=GFI, WP=WEATHERPROOF         FLOOR OR CEILING       C=CEILING         PUSHBUTTON SWITCH       C=CEILING         OA, 125V DUPLEX RECEPTACLE       MOUNTED +15" AFF, UNLESS OTHERWISE NOTED         OA, 125V OUAD RECEPTACLE       MOUNTED +15" AFF, UNLESS OTHERWISE NOTED         OA, 125V DUPLEX RECEPTACLE       Cao, 125V OUAD RECEPTACLE         OA, 125V OUPLEX RECEPTACLE       Cao, 125V OUPLEX RECEPTACLE         OA, 125V OUAD RECEPTACLE       Cao, 125V OUAD RECEPTACLE         OA, 125V OUAD RECEPTACLE       Cao, 125V OUAD RECEPTACLE		DISTRIBUTION PANEL/ BOARD
S ³ SWITCH 3-WAY (48" AFF MAXIMUM)         S ^T TIMER SWITCH (48" AFF MAXIMUM)         S ^{ab} DUAL SWITCH (48" AFF MAXIMUM)         PUSHBUTTON SWITCH       PUSHBUTTON SWITCH         Image: PushButton SWITCH       G=GFI, WP=WEATHERPROOF         SURFACE       G=GFI, WP=WEATHERPROOF         FLOOR OR CEILING       G=GFI, WP=WEATHERPROOF         Image: PushButton SWITCH       C=CEILING         Image: PushButton SWITCH SUPHEX RECEPTACLE       MOUNTED +15" AFF, UNLESS OTHERWISE NOTED         Image: PushButton SWITCH SUPHEX RECEPTACLE       PushButton SWITCH +15" AFF, UNLESS OTHERWISE NOTED         Image: PushButton SWITCH +15" AFF, UNLESS OTHERWISE NOTED       PushButton SWITCH +15" AFF, UNLESS OTHERWISE NOTED         Image: PushButton SWITCH +15" AFF, UNLESS OTHERWIS	Ş	SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE:
ST       TIMER SWITCH (48' AFF MAXIMUM)         Sab       DUAL SWITCH (48' AFF MAXIMUM)         DUAL SWITCH (48' AFF MAXIMUM)         DUAL SWITCH (48' AFF MAXIMUM)         PUSHBUTTON SWITCH         RECESSED ON WALL       G=GFI, WP=WEATHERPROOF         SURFACE       SURFACE         FLOOR OR CEILING       G=GFI, WP=WEATHERPROOF         C=CEILING       C=CEILING         Image: PUSHBUTTON SWITCH       C=CEILING         Image: PUSHBU	چ	SWITCH 3-WAY (48" AFF MAXIMUM)
Sab       DUAL SWITCH (48" AFF MAXIMUM)         PUSHBUTTON SWITCH         RECESSED ON WALL       G=GFI, WP=WEATHERPROOF         SURFACE       G=GFI, WP=WEATHERPROOF         FLOOR OR CEILING       G=GFI, WP=WEATHERPROOF         C       COA, 125V DUPLEX RECEPTACLE         MOUNTED + 15" AFF, UNLESS OTHERWISE NOTED         MOUNTED + 15" AFF, UNLE	₽	TIMER SWITCH (48" AFF MAXIMUM)
PUSHBUTTON SWITCH         Image: Constraint of the state of the s	Ş ^{ab}	DUAL SWITCH (48" AFF MAXIMUM)
Image: Second stateRECESSED ON WALL SURFACE FLOOR OR CEILINGG=GFI, WP=WEATHERPROOF G=GFI, WP=WEATHERPROOF C=CEILINGImage: Surface FLOOR OR CEILINGC=CEILINGImage: Surface FLOOR OR CEILING20A, 125V DUPLEX RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTEDImage: Surface FLOOR OR CEILING20A, 125V QUAD RECEPTACLE RECEPTACLE ON DEDICATED CIRCUITImage: Surface FLOOR OR CEILING20A, 125V CONTROLLED DUPLEX RECEPTACLEImage: Surface FLOOR OR CEILING20A, 125V QUAD RECEPTACLEImage: Surface FLOOR OR CEILING20A, 125V QUAD RECEPTACLEImage: Surface FLOOR OR CEILING20A, 125V QUAD RECEPTACLE	- •	PUSHBUTTON SWITCH
Image: Second	±	
Image: Image		RECESSED ON WALLG=GFI, WP=WEATHERPROOFSURFACEG=GFI, WP=WEATHERPROOFFLOOR OR CEILINGC=CEILING
Image: Image		20A, 125V DUPLEX RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
Image: A construction of the constr	₽₽₽₽	20A, 125V QUAD RECEPTACLE MOUNTED +15" AFF. UNLESS OTHERWISE NOTED
HE       EVERTAGLE ON DEDICATED CIRCUIT         HE       20A, 125V CONTROLLED DUPLEX RECEPTACLE         LE       20A, 125V QUAD RECEPTACLE	⊨⊃⊦⊙	
20A, 125V QUAD RECEPTACLE		20A, 125V CONTROLLED DUPLEX RECEPTACLE
HALF) CONTROLLED RECEPTACLE	⊨⊕	20A, 125V QUAD RECEPTACLE (HALF) CONTROLLED RECEPTACLE

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## ABBREVIATIONS

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ABBREVIATION DESCRIPTION

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∠ IMPEDANCE		WP	WEATHERPROOF
		Ζ	IMPEDANCE

## GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL AND STATE. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS. THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- 2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- 3. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- 4. MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:
- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS.
  - A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
  - B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
  - C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
- 5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN LATEST SECTIONS OF CBC AND ASCE. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT

## SHEET INDEX

THE HANGER AND BRACE LOADS.

<u>SHEET</u>	DESCRIPTION
E-001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
ES100	SITE POWER PLAN
E-101	FIRST FLOOR LIGHTING PLAN (NOT ISSUED)
E-102	ATTIC LIGHTING PLAN(NOT ISSUED)
E-111	FIRST FLOOR POWER PLAN
E-112	ATTIC POWER PLAN
E-121	FIRST FLOOR AUXILIARY PLAN(NOT ISSUED)
E-122	ATTIC AUXILIARY PLAN(NOT ISSUED)
E-401	ENLARGED PLANS(NOT ISSUED)
E-501	DETAILS(NOT ISSUED)
E-601	LIGHT FIXTURE SCHEDULES(NOT ISSUED)
E-602	PANEL SCHEDULES(NOT ISSUED)
E-701	SINGLE LINE DIAGRAM(NOT ISSUED)

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS AND OTHER STANDARD INDUSTRY CONVENTIONS.

![](_page_35_Picture_49.jpeg)

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![](_page_36_Figure_2.jpeg)

![](_page_36_Picture_3.jpeg)

![](_page_37_Figure_2.jpeg)

### LIGHTING NOTES:

1. SEE THE LIGHTING DESIGNER DOCUMENTS FOR NEW INTENDED LIGHTING.

- 2. PROVIDE DISTRIBUTED LIGHTING CONTROLS THROUGHOUT THE BUILDING TO ALLOW OCCUPANCY SENSOR, DIMMING, AND TIME CONTROL AS REQUIRED BY TITLE 24. NLIGHT OR EQUAL.
- 3. SEE THEATER DOCUMENTS FOR THEATER LIGHTING AND CONTROLS.
- 4. ALL NEW LIGHTING SHALL BE LED TO MEET TITLE 24 REQUIREMENTS.

FIRE ALARM NOTES:

- ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE.
- 3. ALL FIRE ALARM EQUIPMENT/DEVICES INSIDE THE BUILDING SHALL BE
- 5. PROVIDE A NEW EST 4 FIRE ALARM SYSTEM THROUGHOUT THE BUILDING. FIRE ALARM SYSTEM SHALL BE A MANUAL SYSTEM THAT MONITORS THE FIRE SPRINKLER SYSTEM.
- 6. PROVIDE ADA HORN STROBES THROUGHOUT THE FACILITY TO MEET CODE REQUIREMENTS.
- 7. PROVIDE PULL STATIONS AT EVERY BUILDING EXIT.
- 2000CFM OR GREATER FOR AUTOMATIC SHUTDOWN.
- AV WHEN THE FIRE ALARM IS IN ALARM MODE. 10. FIRE ALARM SYSTEM SHALL CONNECT TO THE FIREWORKS SYSTEM LOCATED IN

1. DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM DEVICES/EQUIPMENT AND

2. CONTRACTOR SHALL DISCONNECT AND REMOVE FIRE ALARM SYSTEM AND ASSOCIATED CIRCUITRY IN ITS ENTIRETY.

DEMOLISHED AND DISPOSED IN LEGAL MANNER.

4. UPON SHUTDOWN OF BUILDING, DECOMMISSION AND REMOVE ALL EXISTING FIRE ALARM SYSTEMS AND DEVICES SERVING THEM. PROVIDE FIRE WATCH DURING ANY FIRE ALARM SYSTEM SHUTDOWN TO THE BUILDING PRIOR TO DEMOLITION.

8. PROVIDE DUCT SMOKE DETECTORS AT ALL MECHANICAL EQUIPMENT THAT HAS

9. FIRE ALARM SYSTEM SHALL BE TIED TO AV SYSTEMS TO ALLOW SHUT DOWN OF

THE CAMPUS SECURITY BUILDING. THE EXISTING SYSTEM SHALL BE PROGRAMMED TO INCLUDE THE NEW BUILDING.

- 1. PROVIDE RECEPTACLES THROUGHOUT THE BUILDING TO ALLOW FOR NEW ROOM LAYOUTS. IN OFFICES, THERE SHALL BE A MINIMUM OF (3) QUAD RECEPTACLES.
- 2. THE QUAD RECEPTACLE SHALL BE HALF CONTROLLED VIA OCCUPANCY SENSORS TO MEET CURRENT TITLE 24 REQUIREMENTS.
- 3. PROVIDE RECEPTACLE ON MINIMUM 30' SPACING IN CORRIDORS AND LOBBIES TO ALLOW FOR CONVENIENCE USE AND MAINTENANCE.
- 4. PROVIDE GFCI RECEPTACLE IN EACH RESTROOM.
- 5. PROVIDE A DEDICATED RECEPTACLE AT EACH DRESSING ROOM STATION. RECEPTACLE SHALL BE CONTROLLED AND TIED TO A LIGHT FIXTURE OUTSIDE THE DRESSING ROOMS TO INDICATE ON/OFF.
- 6. PROVIDE CONNECTION TO MECHANICAL EQUIPMENT INCLUDING DISCONNECT AND FEEDER. EQUIPMENT OVER 60 AMPS SHALL CONNECT DIRECTLY TO THE MAIN ELECTRICAL SERVICE. SMALLER EQUIPMENT SHALL CONNECT TO THE MECHANICAL SUB-PANEL.
- 7. CONTRACTOR SHALL EXTEND EXISTING CIRCUITRY TO LIGHTS AND RECEPTACLES TO THE NEW ELECTRICAL PANELS.
- 8. PROVIDE (2) 200A/3P COMPANY SWITCHES IN THE THEATER AREA TO ALLOW TRAVELING PERFORMANCES. CONNECT TO MAIN SERVICE.
- 9. PROVIDE (2) 200A/3P FEEDS FOR DIMMER RACKS. SEE THEATER DOCUMENTS FOR LOCATIONS.

![](_page_37_Picture_38.jpeg)

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![](_page_38_Figure_2.jpeg)

![](_page_38_Picture_3.jpeg)

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![](_page_39_Figure_2.jpeg)

![](_page_39_Figure_3.jpeg)

REPLACE EXISTING LIGHT DOWN LIGHTS WITH NEW LED LIGHT FIXTURES. EXISTING FLOURESCENT COVE LIGHTING SHALL BE REPLACED WITH NEW LED LINEAR LIGHT FIXTURES. PROVIDE POWER CONNECTIONS TO LED AISLE LIGHTING FURNISHED IN THEATER SEATING.

PROVIDE NEW LED LIGHTING IN EXISTING AREAS. AREA IS BACK OF HOUSE AND LIGHTING CAN BE UTILITARIAN, BUT SHALL MEET TITLE 24 REQUIREMENTS.

PROVIDE NEW LED LIGHITNG IN THE REMODELED AREA. LIGHTING SHALL BE AESTHETICALLY PLEASING AND MEET CURRENT TITLE 24 REQUIREMENTS.

EXISTING LIGHTING TO REMAIN.

NOTES

 1
 [INSERT TEXT HERE ]

 2
 [INSERT TEXT HERE ]

GENERAL NOTESA. [INSERT TEXT HERE]B. [INSERT TEXT HERE]

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![](_page_40_Figure_2.jpeg)

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REPLACE EXISTING LIGHT DOWN LIGHTS WITH NEW LED LIGHT FIXTURES. EXISTING FLOURESCENT COVE LIGHTING SHALL BE REPLACED WITH NEW LED LINEAR LIGHT FIXTURES. NEW AISLE LIGHTING SHALL BE PROVIDED TO MEET CODE REQUIREMENTS.

PROVIDE NEW LED LIGHTING IN EXISTING AREAS. AREA IS BACK OF HOUSE AND LIGHTING CAN BE UTILITARIAN, BUT SHALL MEET TITLE 24 REQUIREMENTS.

PROVIDE NEW LED LIGHITNG IN THE REMODELED AREA. LIGHTING SHALL BE AESTHETICALLY PLEASING AND MEET CURRENT TITLE 24 REQUIREMENTS. NOTES

 1
 [INSERT TEXT HERE ]

 2
 [INSERT TEXT HERE ]

GENERAL NOTESA. [INSERT TEXT HERE]B. [INSERT TEXT HERE]

![](_page_40_Figure_9.jpeg)

![](_page_40_Picture_10.jpeg)

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DESCRIPTION

NOTE CALLOUT

#### DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS

PIPE CALLOUT

SHOWN

NODE USED IN CALCULATION

SECTION CALLOUT

#### FIRE SPRINKLER PIPE ABOVE FINISHED FLOOR. SEE PLAN FOR ELEVATION.

CEILING HEIGHT

#### POINT OF CONNECTION

POINT OF DISCONNECTION

### CHANGING PIPE SIZE

NEW PIPE

#### EXISTING PIPE

DEMOLISHED PIPE/EQUIPMENT

#### THRUST BLOCK

RISER

#### DRAIN VALVE

POST-INDICATOR VALVE

#### OS&Y VALVE (OUTSIDE SCREW AND YOKE, RISING STEM)

INDICATING BUTTERFLY VALVE

CHECK VALVE

#### CHECK VALVE WITH BALL DROP

BUTTERFLY VALVE

#### BACKFLOW PREVENTER - REDUCED PRESSURE ZONE (RPZ) TYPE

PUBLIC FIRE HYDRANT, TWO HOSE OUTLETS

#### PUBLIC FIRE HYDRANT, TWO HOSE OUTLETS AND PUMPER CONNECTION

SIAMESE FIRE DEPARTMENT CONNECTION

FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION

FIRE PUMP WITH DRIVES

UPRIGHT SPRINKLER

### PENDENT SPRINKLER

CONCEALED SPRINKLER

### PENDENT SPRINKLER; ON DROP NIPPLE

SPRINKLER, WITH GUARD

LATERAL BRACE

LONGITUDINAL BRACE

FOUR-WAY BRACE

WIRE, SURGE RESTRAINER

WALL PENETRATION

PIPE HANGER

MECHANICAL PIPE COUPLING

GROOVED ELBOW

CHANGE IN PIPE ELEVATION

ELBOW FACING AWAY FROM VIEWER

ELBOW FACING TOWARD VIEWER

TEE FACING AWAY FROM VIEWER

TEE FACING TOWARD VIEWER

#### THREADED CAP - FIRE STOP SYMBOL

ONE HOUR FIRE RATED WALL

### **ABBREVIATIONS**

ABBREVIATION DESCRIPTION (N) AFF BFV DCDA DI EXIST / (E) FDC FH PIV POC PVC

UG

NEW ABOVE FINISHING FLOOR BUTTERFLY VALVE DOUBLE CHECK DETECTOR ASSEMBELY DUCTILE IRON PIPE EXISTING FIRE DEPARTMENT CONNECTION FIRE HYDRANT POST INDICATOR VALVE POINT OF CONNECTION POLYVINYL CHLORIDE UNDERGROUND

## **BUILDING DESIGN INFORMATION**

**BUILDING DESIGN INFORMATION:** -CONSTRUCTION TYPE= V-A

<u>SPRINKLER DESIGN CRITERIA -</u>

-DEFLECTOR DISTANCE= -HEAD SPACING=

SPRINKLER DESIGN CRITERIA --DESIGN DENSITY = 0.15 GPM/SQFT -DESIGN AREA= -DEFLECTOR DISTANCE= -HEAD SPACING=

SPRINKLER DESIGN CRITERIA --DESIGN DENSITY = 0.20 GPM/SQFT -DESIGN AREA= -DEFLECTOR DISTANCE= -HEAD SPACING=

SHEET INDEX

ATTACHED TO EACH RISER.

SERVICE WORK.

<u>SHEET</u> **DESCRIPTION** FS001 FS101 FIRST FLOOR PLAN

-GOVERNING BUILDING CODE = 2019 CBC, CFC, CPC, CMC, CEC; 2022 CAC -BUILDING OCCUPANCY = A-2.1. B. S -BUILDING HEIGHT = 47 FT -BUILDING AREA = 20.000 SQFT -GOVERNING FIRE STANDARD = 2016 NFPA 13, NFPA 14, NFPA 72 PREVIOUS DSA #= 26454 (11/09/1965), 01-103630 (04/10/2001) -CLASSIFICATION OF OCCUPANCY = LIGHT HAZARD (L.H.) -DESIGN DENSITY = 0.10 GPM/SQFT -DESIGN AREA=

-CLASSIFICATION OF OCCUPANCY = ORDINARY HAZARD GROUP I (O.H. I)

# -CLASSIFICATION OF OCCUPANCY = ORDINARY HAZARD GROUP II (O.H. II)

SCOPE OF WORK

1. DEMOLISH THE EXISTING FIRE SPRINKLER SYSTEM(S) FOR THE GAVILAN THEATER BUILDING.

2. PROVIDE A NEW FULLY AUTOMATIC MONITORED WET PIPE SPRINKLER SYSTEM THROUGHOUT THE GAVILAN THEATER BUILDING.

3. PROVIDE A NEW CLASS II STANDPIPE

## OVERHEAD FIRE SPRINKLER SYSTEM NOTES

1. 2016 NFPA 13 SEC. 10.10.2.1.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING (WITNESSED BY THE PROJECT INSPECTOR).

2. PROVIDE FLOW TEST DATA AND INDICATE THE LOCATIONS AND HEIGHT ELEVATIONS OF THE TEST AND RESIDUAL FLOW HYDRANTS. DATA MUST BE NO MORE THAN 6 MONTHS OLD AND PROVIDE INFORMATION ABOUT AVAILABLE WATER AT THE SITE. INFORMATION MAY COME FROM THE LOCAL WATER PURVEYOR, UTILITIES COMPANY, OR LOCAL FIRE DEPARTMENT. THIS INFORMATION SHALL BE ACCOMPANIED WITH A WET SIGNATURE AND SIGNED DATE OF TEST.

3. ARCHITECT OF RECORD & FIRE PROTECTION SHALL AFFIX THEIR SEAL AND STAMP & SIGN ALL SUBMITTAL DRAWINGS, OR PROVIDE DOCUMENTATION PER DSA IR A-18. 4. 2016 NFPA 13 SEC. 6.2.9: PROVIDE SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN 6 SPARE HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS AT EACH SYSTEM RISER.

5. 2016 NFPA 13 SEC. 9.3.6.3: THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.

#### 6. 2016 CBC 903.4.2: THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED AT THE END OF THE MOST HYDROSTATICALLY REMOTE SYSTEM WITH A PIPE SIZE OF NO LESS THAN 1 INCH, WITH A SMOOTH BORE, CORROSION-RESISTANT ORIFICE INSTALLED WITHIN THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING.

7. 2016 NFPA 72 SEC 17.12.2: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO MORE THAN 90 SECONDS AFTER INITIAL FLOW. (WITNESSED BY THE PROJECT INSPECTOR).

8. 2016 CBC 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARMS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS. 9. 2016 NFPA 13 SEC. 7.7.1.5: SIGNAGE SHALL BE PROVIDED AS REQUIRED.

10. 2016 CBC SEC. 903.4.1: ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE SUPERVISED. 11. 2016 NFPA 13 SEC. 24.5: A PERMANENT HYDRAULIC CALCULATIONS DESIGN DATA PLACARD SHALL BE

12. 2016 NFPA 13 SEC. 6.9 AND 2010 CBC 903.4.2: FLOW SWITCH SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED TO OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM - WHEN BELL RINGS CALL 911 / FIRE DEPARTMENT." 13. TITLE 19 ARTICLE 6 SECTION 906(A): A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE

14. 2016 NFPA 13 FIGURE 24.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE

AND/OR DATE OF INSTALLATION WAS PERFORMED AND LICENCE NUMBER OF PERSON PERFORMING

PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS. 15. ALL SPRINKLER FITTERS WORKING ON THIS PROJECT MUST BE AES CERTIFIED THROUGH CSFM & MUST CARRY CERTIFICATION CARD WITH THEM ON JOB SITE.

GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

## **GENERAL NOTES**

- 1. THE SUCCESSFUL C-16 LICENSED CONTRACTOR SHALL COORDINATE WITH ALL ENGINEER DISCIPLINE & ARCHITECT FOR THE INSTALLATION FIRE SPRINKLER SYSTEM FOR ALL CONCEALED AND UNCONCEALED AREAS OF THE BUILDINGS AS REQUIRED.
- CONTRACTOR SHALL INSTALL, ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYSTEM PER REQUIREMENTS OF THE CURRENT NATIONAL FIRE PROTECTION ASSOCIATION CODE (NFPA), 2016 NFPA 13, NFPA 14, NFPA 24, CALIFORNIA BUILDING CODE / CALIFORNIA FIRE CODE (CBC/CFC) CHAPTER 9, CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC) AND INSURANCES UNDER WRITER'S REQUIREMENTS.
- 3. THE DESIGN COORDINATION AND APPROVALS OF ALL MAINS AND BRANCHES LINES TO SERVE SPRINKLERS SHALL BE DONE BY A LICENSED FIRE PROTECTION CONTRACTOR.
- 4. SUBMIT SHOP DRAWINGS FOR APPROVAL. SHOP DRAWINGS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PLAN CHECK DEPARTMENT PRIOR TO COMMENCING.
- 5. EXISTING WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED OR REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING ADJACENT SURFACES IN TEXTURE, FINISH AND COLOR.
- 6. LOCATION OF SPRINKLER HEADS SHALL BE DONE BY THE FIRE PROTECTION CONTRACTOR USING THE CRITERIA AS NOTED BELOW:
- A. IN LOCATIONS WITH SUSPENDED CEILING, THE SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE INDIVIDUAL CEILING TILES. THE SPRINKLER HEADS PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE. IN PANELS HAVING A FACTORY-MADE REVEAL, SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF AN INDIVIDUAL SEGMENT.
- B. IN LOCATIONS WITH PLASTERED OR GYPSUM BOARD CEILINGS, THE SPRINKLER HEAD PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE. C. FOR LOCATIONS OF CEILING TILES. DIFFUSERS AND LIGHTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS.
- 7. ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVATION / NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- 8. NO HOLES SHALL BE DRILLED OR CUT IN OR THROUGH ANY STRUCTURAL ELEMENT WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- 9. SLEEVE AND GROUT ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS UNLESS PENETRATION IS FIRE RATED. WHEN PENETRATING A FIRE RATED FLOOR OR WALL, USE SLEEVE WITH 1" MIN. ANNULAR SPACE AROUND PIPE O.D. FILL ANNULAR SPACE WITH FIBERGLASS FILL TO 1" FROM END OF SLEEVE. ADD APPROVED FIRE PROOF SEALANT FOR THE HOUR RATING OF THE FLOOR OR WALL PENETRATION IN THE REMAINING SPACE.
- 0. CONTRACTOR SHALL PROVIDE A WATER FLOW TEST OF EXISTING WATER MAIN IN ACCORDANCE WITH CITY AFSS & NFPA 13, APPENDIX A-7.2.1, AND SHALL PROVIDE HYDRAULIC CALCULATIONS BASED UPON THE WATER COMPANY SERVICE ADVISORY REPORT. SPRINKLER SYSTEMS SHALL BE BASED UPON 90% OF THE PRESSURE DETERMINED BY THE FLOW TEST BY CONTRACTOR OR 90% OF THE PRESSURE INDICATED ON THE S.A.R. REPORT OF FLOW TEST.
- 11. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED TEMPORARY AND PERMANENT PERMITS, INCLUDING LICENSES, CERTIFICATES, INSPECTIONS AND TESTS.
- 12. SEE DIVISION 21 SPECIFICATION FOR ADDITIONAL REQUIREMENTS
- 13. ALL PIPE PENETRATION THRU WALLS, RATED OR OTHERWISE SHALL BE COVERED WITH A SPLIT ESCUTCHEON PLATE.
- 14. FIELD OBSERVATION AND SUPPORT SERVICES PERFORMED BY THE ENGINEER PRIOR TO, DURING, OR AFTER CONSTRUCTION IS PERFORMED FOR THE PURPOSE OF ACHIEVING QUALITY CONTROL AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- 15. PHASING: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GENERAL CONTRACTOR CONSTRUCTION SCHEDULE AND BASED UPON MINIMIZING DISRUPTIONS TO EXISTING OPERATION. PHASING SHALL BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION OR DEMOLITION.
- 16. ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR PROMPT DAILY REMOVAL FROM THE SITE. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE RESULTING FROM THE WORK AT THE CONCLUSION OF THE DAY'S CONSTRUCTION. THE AREA OF THE SITE SHALL BE LEFT BROOM CLEAN. IF NOT, UPON NOTIFICATION, THE GENERAL CONTRACTOR WILL PERFORM ALL NECESSARY CLEAN-UP WORK AND BACK CHARGE THE SUB CONTRACTOR FOR THE EXPENSE THUS INCURRED.
- 17. ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR FIRE PROTECTION SERVICE OR APPROVED BY THE AUTHORITY HAVING JURISDICTION. IT SHALL BE PER OPM-0052-13 (B-LINE/TOLCO
- 18. FITTINGS FOR HOLE-CUT CONNECTIONS, SUCH AS VICTAULIC "HOOKER" OR EQUIVALENT, ARE NOT ACCEPTABLE AND SHALL NOT BE USED.
- 19. PROVIDE EACH FLOOR/ZONE WITH CONTROL VALVE AND FLOW SWITCH.
- 20. PROVIDE SPRINKLERS AT ELEVATOR BOTTOM PIT.
- 21. THE SPRINKLER REQUIRED AT THE TOP OF THE ELEVATOR HOISTWAY BY NFPA 13, 8.14.5.4 SHALL NOT BE REQUIRED WHERE THE HOISTWAY FOR PASSANGER ELEVATOR IS NONCOMBUSTIBLE AND THE CAR ENCLOSURE MATERIALS MEET THE REQUIREMENTS OF ASME A17.1, SAFETY CODE FOR ELEVATOR AND EXCALATORS.
- 22. A HYDROSTATIC TEST SHALL BE PERFORMED FOR ALL SYSTEM PIPING AT NOT LESS THEN 200 PSI FOR TWO HOURS, OR 50 PSI ABOVE STATIC PRESSURE IN EXCESS OF 150 PSI FOR TWO HOURS, AND WITNESSED BY A LOCAL FIRE INSPECTOR.
- 23. FIRE SPRINKLER FLOW ALARM BELL WILL BE INSTALLED ON THE ADDRESS SIDE OF THE BUILDING AND WILL BE EQUIPPED WITH THE PROPER SIGNAGE IDENTIFYING THE ALARM BELL.
- 24. ALL CONTROL VALVES AND DRAIN VALVES SHALL HAVE A SIGN AFFIXED FOR IDENTIFICATION.
- 25. ALL MECHANICALLY JOINED PIPING SHALL BE SCHEDULE 10 WITH ROLL GROOVED ENDS AND MECHANICAL
- FITTINGS. COUPLINGS SHALL BE RIGID TYPE, UNLESS OTHERWISE NOTED. 26. ALL THREADED PIPING SHALL BE SCHEDULE 40 WITH CUT THREADS AND CLASS 125 CAST IRON FITTINGS.
- 27. THE FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED LISTED CENTRAL MONITORING STATION.
- 28. HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, SECTION 9.2 THROUGH 9.2.6.3 SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED. ALTERNATE UL AND FMHANGER METHODS ACCEPTABLE AT NO ADDITIONAL COST TO THE OWNER PROVIDE UL AND FM LITERATURE TO INSPECTOR OF RECORD AND ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- PROVIDE RIGID COUPLING THROUGHOUT, EXCEPT FLEXIBLE COUPLING SHAL BE PROVIDE AS FOLLOWING: A. WITHIN 24" OF THE TOP AND BOTTOM OF AL RISERS.

- B. ON BOTH SIDES OF CONCRETE OR MASONARY WALLS WITHIN 3' OF THE WALL SURFACE

- D. WITH24' OF THE TOP OF DROPS EXCEEDING 15' IN LENGTH TO PORTIONS OF SYSTEM SUPPLYING MORE
- C. WITHIN 24" OF BUILDING EXPANSION JOINTS.
- THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.

#### E. ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERITCAL PIPE. 29. BRANCHLINE SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN NFPA TABLE 13 TABLE 9.3.6.4(a) OR (b) BASED ON BRANCHLINE DIAMETERS AND THE VALUE OF Cp.

TRADES PRIOR TO INSTALLATION.

APPROVED.

30. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.

# 31. INSPECTORS TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE PER NFPA 13 (UNLESS NOTED

- OTHERWISE) AND SHALL BE SHOWN ON SHOP DRAWING. MOUNTING HEIGHTS OF CONTROL VALVES BE 5'-0" A.F.R. MOUNT CONTROL VALVES FOR INSPECTOR CONNECTION AND LOW POINT DRAINS INSIDE

- BUILDING. PIPE DRAIN LINES TO THE SANITARY DRAIN OR OTHER APPROVED LOCATION.

# STRUCTURE AND ALL OTHER TRADES AT NO ADDITIONAL COST TO THE OWNER.

32. SPRINKLER CONTRACTOR TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, 33. OWNER TO BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK (NFPA 25 - CALIFORNIA AMENDED) AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH PER NFPA 13.

34. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE

RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE,

35. SPRINKLER CONTRACTOR SHALL BE FIELD VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER

37. REFER TO THE ARCHITECTURAL DRAWING FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT

38. INSTALLATION OF SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS,

39. LENGTHS OF PIPE SHOWN ON PLANS ARE EDGE OF FITTING TO EDGE OF FITTING DIMENSIONS. FIELD

FABRICATION OF PIPE LENGTHS IS NOT ALLOWED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND

ALL WORK DOCUMENTED

ON THIS SHEET IS IN THE

**SCOPE OF ALTERNATE 7** 

INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.

36. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRE LINE INFORMATION.

SCALE "FP" DRAWINGS FOR CONSTRUCTION PURPOSES.

CALCULATIONS, ETC. HAVE BEEN APPROVED BY DSA AND EOR.

![](_page_41_Picture_151.jpeg)

![](_page_42_Figure_2.jpeg)

SCALE: NONE

### GENERAL NOTES

A. EXISTING FIRE SPRINKLER SYSTEM TO BE DEMOLISHED. B. A NEW FULLY AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT THE BUILDING TO MEET THE CURRENT CODES AND STANDARDS. THE FIRE SPRINKLER SYSTEM SHALL BE MONITORED.

C. A NEW CLASS II STANDPIPE SYSTEM SHALL BE INSTALLED

ALL WORK DOCUMENTED ON THIS SHEET IS IN THE **SCOPE OF ALTERNATE 7** 

![](_page_42_Picture_9.jpeg)

FS101

BBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPT
£ #)	NUMBER (IDENTIFICATION) OR COUNT	JC	JOINT CON HEALTH C
<del>//</del> )	STANDARD-LEVEL RATIO OF		KNOWN AS
dBm	MEASUREMENT THAT REPRESENTS A	LED	
	MILLIWATT OF POWER	M	METER
		MAC	MEDIA ACO
ve NFF	ABOVE FINISHED FLOOR	MDF	MAIN DIST MAINTENA
\HJ	AUTHORITY HAVING JURISDICTION	МН	SPACE) – (
NSI	AMERICAN NATIONAL STANDARDS	MM	MULTI-MO
νP	ACCESS POINT	MTG	MOUNTING
RCH	ARCHITECT, ARCHITECTURAL	MTU	MULTI TEN
\SP	ALUMINUM, STEEL, POLYETHYLENE	N NEC	NORTH
STM	MATERIALS		NATIONAL
TM	ASYNCHRONOUS TRANSFER MODE		ASSOCIAT
BC	BONDING CONDUCTOR	NFPA	NATIONAL
BDF	BUILDING DISTRIBUTION FRAME	NIC	NETWORK
BICSI	BUILDING INDUSTRY CONSULTING SERVICES		
BMS	BUILDING MANAGEMENT SYSTEM	OF	OPTICAL F
BOND	BONDING (MECHANICAL CONNECTION TO	OSHPD	CALIFORN
BTU	BRITISH THERMAL UNIT	OSP	OUTSIDE F
0.0.	CONDUIT ONLY – WITH PULL STRING	OTDR	OPTICAL T
CATV	COMMUNITY ANTENNA TELEVISION (CABLE	PA	PUBLIC AD
BC	COMMUNICATIONS BONDING	ЬН ЬВ	PULL BOX
		PNL	PANEL
CEC	CALIFORNIA ELECTRICAL CODE	PR	
СКТ	CIRCUIT	PSF PSU	POUNDS F
CLG	CEILING	PTP	POINT-TO-
CMP	JACKET RATING)	PVC	POLYVINYL
MR	COMMUNICATIONS RISER (CABLE JACKET	RET	REMOTE T
P	CONSOLIDATION POINT	RM	ROOM
SI	CONSTRUCTION SPECIFICATION INSTITUTE	RMC	RIGID MET
CT MS	CABLE TRAY	RING	RIGID NON
)B	DIRECT-BURIED OR DUCT BANK	RU	RACK UNIT
IB	DECIBEL	Rx	RECEIVE
)C NST		SCS	STRUCTU
	POINT OF DEMARCATION BETWEEN	ScTP	SCREENE
MARC	UTILITIES OR BETWEEN UTILITIES AND	SI	SLEEVE – S
)WG	DRAWING		THROUGH
A	EACH	SM	SINGLE-M
:BC	EQUIPMENT BONDING CONDUCTOR	SNR	SIGNAL TO
ELECT	ELECTRICAL	SPD	SURGE PR
EMI IMO		STP	SQUARE
IMS IMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
INT	ELECTRICAL NONMETALLIC TUBING	Т	
	END OF LINE RESISTOR		TELECOM
DC	OPTICAL – FIBER DISTRIBUTION CENTER	IBB	BACKBON
DDI	(OPTICAL) FIBER DISTRIBUTED DATA	TCP/IP	PROTOCO
	INTERFACE FEEDER	TE	TELECOM
EXT	FAR END CROSSTALK	TEL	TELEPHON
IC	FACILITY INTERFACE CODE		TELECOM
IN IXT	FINISH FIXTURE	IGD	BUSBAR
ER	FLOOR	TIA	ASSOCIAT
	FIRESTOP (DEFINED BY "T-RATING –	TMGB	TELECOM
S	FLAME) – MAY ALSO HAVE A	TR	TELECOM
T	"SMOKE-TRANSFER" REQUIREMENT	TV	TELEVISIO
GA	GAUGE	Tx	TRANSMIT
GND	GROUND (MECHANICAL CONNECTION TO	UBC	
PR	EARTH) GROUND POTENTIAL BISE	UG	UNDERGR
GRC	GALVANIZED RIGID CONDUIT	UL	UNDERWR
BC		UTP	UNSHIELD
3F 3P	INTERBUILDING FIBER CABLE	V	VOLTS OR
C	INSIDE DIAMETER OR INSIDE DIMENSION	V-A	VOLT-AMP
DC DE		W/	WITH
רב 	INSTITUTE OF ELECTRICAL AND	W/O	WITHOUT
	ELECTRONIC ENGINEERS	WAO	WORK ARE
ند ۲	ISOLATED GROUND	WiFi	WIRELESS
50	INTERNATIONAL ORGANIZATION OF	WP	USER ACC
- <del>-</del> SP	STANDARDIZATION	WS	WORK STA
B	JUNCTION BOX		
N THE EVENT A	ABBREVIATIONS NOT MENTIONED HEREIN ARE	USED REFEREN	

**ABBREVIATIONS** 

### **TASK RESPONSIBILITY MATRIX** _____

STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

INTER-BUILDING TELECOM CONDULT SLEEVES
INTER-BUILDING TELECOM CONDUITS
MANHOLES AND PULLBOXES
18" LADDER RACK
EQUIPMENT CABINET AND BRACKETS
MDF ROOM GROUNDING AND BONDING
PLYWOOD BACKBOARD
MDF ROOM ELECTRICAL CIRCUITS
MDF CABLE TERMINATION HARDWARE
CLOCK BELL PAGING HEAD END EQUIPMENT RELOCATION
PROCUREMENT OF NETWORK EQUIPMENT (SWITCHES, STORAGE/SERVERS)
CONFIGURATION OF NETWORK EQUIPMENT (SWITCHES, STORAGE/SERVERS)
PROCUREMENT, INSTALLATION, AND CONFIGURATION OF GBIC MODULES
INSTALLATION OF NETWORK OFCI EQUIPMENT
CLOCK BELL PAGING CABLING RELOCATION, TERMINATION, AND TESTING
INTRUSION DETECTION CABLING RELOCATION, TERMINATION, AND TESTING
DEMOLITION AND REMOVAL OF UNUSED CABLING IN MANHOLE
DEMOLITION AND REMOVAL OF OLD 62.5 FIBER
LABELING OF EXISTING MANHOLE CONDUITS AND COPPER CABLING
INSTALLATION, TERMINATION, TESTING, AND LABELING OF NEW OPTICAL FIBER PLANT
CC = COMMUNICATION CONTRACTOR
EC = ELECTRICAL CONTRACTOR

GC = GENERAL CONTRACTOR

#### DESCRIPTION JOINT COMMISSION: ACCREDITATION, HEALTH CARE CERTIFICATION (FORMALLY KNOWN AS JCCO) LIGHT EMITTING DIODE

#### MEDIA ACCESS CONTROL MAIN DISTRIBUTION FRAME MAINTENANCE HOLE (OSP CONFINED SPACE) – (A.K.A. MANHOLE) MULTI-MODE - REFERRING TO OPTICAL

FIBER CORE/CLADDING PROPERTIES MOUNTING MULTI TENANT UNIT

NATIONAL ELECTRICAL CODE (NFPA-70) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRICAL SAFETY CODE NATIONAL FIRE PROTECTION ASSOCIATION NETWORK INTERFACE CARD NETWORK INTERFACE UNIT OUTSIDE DIAMETER

OPTICAL FIBER CALIFORNIA OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT OUTSIDE PLANT

OPTICAL TIME DOMAIN REFLECTOMETER PUBLIC ADDRESS SYSTEM PULL BOX

POUNDS PER SQUARE FOOT POWER SUPPLY UNIT

POINT-TO-POINT POLYVINYL CHLORIDE

REMOTE TERMINAL

RIGID METAL CONDUIT RACK MOUNTED SPACE RIGID NONMETALLIC CONDUIT RACK UNIT

STRUCTURED CABLING SOLUTION SCREENED TWISTED PAIR SLEEVE – SECTION OF PATHWAY THAT

SIZED BY THE RATED ASSEMBLY IT PASSES THROUGH SINGLE-MODE REFERRING TO OPTICAL FIBER CORE/CLADDING PROPERTIES SIGNAL TO NOISE RATIO

SURGE PROTECTION DEVICE SHIELDED TWISTED-PAIR

TEMPERATURE

TERMINAL BLOCK TELECOMMUNICATIONS BONDING

BACKBONE TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL

TELECOMMUNICATIONS ENCLOSURE TELEPHONE TERMINATION OR TERMINAL TELECOMMUNICATIONS GROUNDING

TELECOMMUNICATIONS INDUSTRY ASSOCIATION

TELECOMMUNICATIONS MAIN GROUNDING TELECOMMUNICATIONS ROOM OR SPACE TELEVISION

TRANSMIT UNIFORM BUILDING CODE UNDERGROUND UNDERWRITERS LABORATORIES INC. UNINTERRUPTIBLE POWER SUPPLY

UNSHIELDED TWISTED PAIR VOLTS OR VOLTAGE VOLT-AMPERES

WORK AREA OUTLET / WORK STATION WIRELESS FIDELITY (LOCALIZED WIRELESS USER ACCESS INTERNET/NETWORK) WATERPROOF OUTLET BOX

WORK STATION

CE WILL BE MADE TO ANSI Y1.1, MILITARY

GC	EC	CC	OWNER	SP
	GC	GC         EC           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I	GC         EC         CC           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I	GC         EC         CC         OWNER           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I<

## **DEMOLITION NOTES**

## INTRA-BUILDING

- 1. CONTRACTOR SHALL VERIFY THAT ALL WORKING SERVICES ARE TRANSFERRED FROM OLD CABLES TO THE NEW NETWORK. THIS INCLUDES BUT IS NOT LIMITED TO, SERVICE TO PAY PHONES, MONITORING DEVICES, EMERGENCY PHONES, ELEVATOR PHONES, AS WELL AS SWITCH SERVICES, AND NON SWITCH SERVICES (IE: ISDN, HICAP, T-I LINES).
- 2. AFTER EXISTING VOICE AND DATA SERVICES ARE CUTOVER TO THE NEW NETWORK, REMOVE ALL NON-WORKING COPPER RISER AND ENTRANCE CABLES. REMOVE ALL ABANDONED TERMINATION BLOCKS, JUMPERS AND EQUIPMENT.
- 3. REMOVE ABANDONED FIBER OPTIC CABLES AND TERMINATING EQUIPMENT UNLESS SPECIFICALLY INDICATED OR DIRECTED BY A IT DEPARATMENT DISTRICT REPRESENTATIVE.

## INTER-BUILDING

- 1. THE COPPER CABLE PLAN, EC2 DRAWINGS, INDICATE THE COPPER CABLES TO BE REMOVED UPON COMPLETION OF CUTTING THEM OVER TO A NEW CONFIGURATION. THESE CABLES AND ANY OTHER ABANDONED (CUT AT BOTH ENDS) COPPER CABLES SHALL BE REMOVED. 2. ANY ABANDONED (CUT AT BOTH ENDS) COAXIAL CABLE SHALL BE REMOVED.
- 3. CHECK WITH DISTRICT IT DEPARTMENT REPRESENTATIVE PRIOR TO REMOVING ANY EXISTING MEDIA.

## EMERGENCY RESPONDER COMMUNCATIONS **ENHANCEMENT SYSTEMS (ERCES)**

- AN ERCES MAY BE REQUIRED TO AUGMENT THE RECEPTION OF CELLULAR AND PUBLIC SFETY SYSTEMS THROUGHOUT THE BUILDING.
- IF THE AHJ DETERMINES THAT AN ERCES IS REQUIRED, IT WILL FEATURE THE FOLLOWING
- COMPONEMTS. DONOR ANTENNA ON THE ROOF; ANTENNA IS APPROXIMATELY 36 INCHES BY 8 INCHES BY 2
- INCHES ONA 6-FOOT MAST BI-DIRECTIONAL AMPLIFIER WITH A FIBER DISTIBUTION SYSTEM LOCATED ON TOPMOST LEVEL
- OF TELECOM ROOM LOCATE A 19 INCH EQUIMENT RACK FOR THE BUILDING DISTRIBUTION AMPLIFIER, FIBER GEAR, AND THE UPS (WITH THE EQUIPMENT IN A NEMA 4 ENCLOSURE WITH A LOAD OF LESS THAN
- 400\\\\) • FIBER REMOTES LOCATED ON VARIOUS LEVELS AS NEEDED.

## TELECOM LEGEND

<u>SYMBOL</u>	DESCRIPTION
-	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
1	BUILDING NUMBER
	CONCEALED CONDUIT
	EXPOSED CONDUIT
	UNDERGROUND CONDUIT
	FUTURE CONDUIT
$- \times \times -$	CABLE TO BE REMOVED
<del>_/////</del> _	EXISTING CABLE TO BE ABANDONED OR RETURNED
0	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
]	CONDUIT WITH CAP
Y	VOICE / DATA OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (3) CAT 6A CABLES / JACKS TERMINATED IN A 4-PORT FACEPLATE AT 18" AFF. PROVIDE AND INSTALL 4S JBOX WITH SINGLE GANG MUDRING AND 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
$\mathbf{Y}^{X}$	DATA OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (X) QUANTITY OF CAT 6A CABLES / JACKS TERMINATED IN A 6-PORT FACEPLATE AT 18" AFF. PROVIDE AND INSTALL 4S JBOX WITH SINGLE GANG MUDRING AND 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
$\stackrel{TV}{\Psi}$	DATA OUTLET. PROVIDE AND INSTALL (2) SHIELDED CAT6A CABLES AND (1) RG-6 CABLE. JACKS TERMINATED IN A CONSOLIDATED BACK BOX AT THE DESIGNATED HEIGHT AS SHOWN ON DRAWINGS. REFER TO AUDIOVISUAL SHEETS FOR CONSOLIDATED BACK BOX TYPE. PROVIDE BUSHINGS AND PULLSTRING, U.O.N. MOUNT OUTLET AT 60" AFF U.O.N.
W Y	WALL PHONE OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (1) CAT 6A CABLE TERMINATED ON A STAINLESS STEEL WALL PHONE FACE PLATE AT 48" AFF. PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
EP <b>Y</b>	EMERGENCY BLUE PHONE. PROVIDE AND INSTALL (2) CAT 6A CABLES TERMINATED AT EMERGENCY BLUEPHONE LOCATION, U.O.N ON DRAWINGS. EIBER OPTIC COMMUNICATION OUTLET, PROVIDE AND INSTALL 6 STRAND
FO Y	SM TERMINATED ON (3) DUPLEX LC STYLE CONNECTORS, AND (3) CATEGORY 6A CABLES TERMINATED ON RJ-45 JACKS AT THE FACEPLATE. PROVIDE AND INSTALL A 4S JUNCTION BOX WITH 1-1/4" STUBBED TO ACCESSIBLE CEILING SPACE OR HOMERUN TO THE BDF ROOM. MOUNT OUTLET AT 18" AFF U.O.N.
${f Y}$	VOICE/DATA SYSTEMS FURNITURE OUTLET. PROVIDE AND INSTALL (2) CAT 6A CABLES/ JACKS TERMINATED IN 3-PORT FURNITURE MOUNT FACEPLATE.
	DATA OUTLET - FLOORBOX. PROVIDE AND INSTALL (4) CAT 6A CABLES /JACKS TERMINATED IN FLOOR BOX, U.O.N PROVIDE AND INSTALL 1-1/4" CONDUIT STUBBED TO NEAREST FURRED WALL, ROUTE CONDUIT TO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
X	DATA OUTLET - FLOORBOX. PROVIDE AND INSTALL (X) QUANTITY OF CAT 6A CABLES /JACKS TERMINATED IN FLOOR BOX, U.O.N PROVIDE AND INSTALL 1-1/4" CONDUIT STUBBED TO NEAREST FURRED WALL, ROUTE CONDUIT TO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
$\mathbf{\widehat{v}}$	DATA OUTLET - CEILING MOUNTED. PROVIDE AND INSTALL (2) CAT 6A CABLES / JACKS TERMINATED IN A 2-PORT FACEPLATE AT FINISHED CEILING. (NOTE: AT HARDLID CEILING LOCATIONS PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.)
Φ	FURNITURE FEED DEDICATED JUNCTION BOX. PROVIDE AND INSTALL 5S JUNCTION BOX WITH (2) 2" CONDUITS TO ACCESSIBLE CEILING. FOR COMMUNICATIONS CABLING ONLY.
$\bigcirc$	FLOOR MOUNTED FURNITURE FEED. PROVIDE AND INSTALL 2" CONDUITS AS REQUIRED TO SERVE FURNITURE SYSTEM AS SHOWN ON THE DRAWINGS. ROUTE CONDUIT TO NEAREST FURRED WALL AND UP TO ACCESSIBLE CEILING SPACE. FOR COMMUNICATIONS CABLING ONLY.
WPP	WIRELESS ACCESS POINT OUTLET - CEILING MOUNTED. PROVIDE AND INSTALL (2) CAT 6A CABLES / JACKS TERMINATED IN A SURFACE MOUNT BOX ABOVE FINISHED CEILING. (NOTE: AT HARDLID CEILING LOCATIONS PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING,

(2) CAT 6A CABLES / JACKS TERMINATED IN A 2-PORT FACEPLATE AT NOTED HEIGHT AFF. PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION, BUSH AND PROVIDE PULLSTRING, U.O.N.

CABLE TRAY. REFER TO DRAWINGS FOR SIZING.

TELECOMMUNICATIONS PULLBOX

U.O.N. TERMINATE CABLES ON JACKS IN 2-PORT FACE PLATE.

WIRELESS ACCESS POINT OUTLET - WALL MOUNTED. PROVIDE AND INSTALL

LADDER RACK

## GENERAL NOTES

- INTERPRETED NOR CONSIDERED AS AUTHORIZATION TO DEVIATE FROM ANY CODE OR
- MINIMUM 25-YEAR SCS EXTENDED MATERIALS WARRANTIES. JOB AS PER MANUFACTURER OR THE HIGHER STANDARD SHALL PREVAIL. ALL SUCH
- 3. OMISSIONS FROM THE DRAWINGS OR FROM THE SPECIFICATIONS OR THE MISDESCRIPTION OF

ERRORS.

- PARTS AND COMPLETE FUNCTIONING ASSEMBLIES.
- 6. CONTRACTOR IS REQUIRED TO RECEIVE WRITTEN APPROVAL FOR ALL RECOMMENDED AND
- 7. ALL WORK MUST BE COMPLETED IN AS PER MANUFACTURER INSTALLATION REQUIREMENTS AND PART OF THE PUNCH-LIST PROCESS.
- 9. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY THE TELECOM DRAWINGS ARE ESSENTIALLY TELECOM WORK INTERFACES WITH OTHER TRADES.
- TILES ARE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE WITH LIKE TILES.
- MATERIAL.
- APPROVED TELECOMMUNICATIONS BONDING ASSEMBLY.
- APPROVAL IN WRITING PRIOR TO ANY ROUGH-IN WORK OR MATERIAL PROCUREMENT. MANAGER AND THE GAVILAN COLLEGE REPRESENTATIVE.
- HANDLING DUCTS OR DAMPERS.
- VACANT OR PARTIALLY FILLED PATHWAY.
- COLLEGE REPRESENTATIVE.
- GAVILAN COLLEGE AND/OR THE AHJ.
- VOLTAGE CABLING/CONDUIT CONTRACTOR FOR PROPER PLACEMENT.
- 22. ALL STATION CABLES SHALL BE TERMINATED ON THE SAME FLOOR AS THE FLOOR SERVING BDF/IDF UNLESS OTHERWISE NOTED IN THESE DRAWINGS.
- THE CABLE INSTALLATION MEANS.
- 24. ALL NEW AND REUSED STATION CABLES SHALL BE TESTED AND DOCUMENTED USING
- 25. GAVILAN COLLEGE REQUIRES A ONE (1) METER SLACK LOOP FOR ALL WAO SUPPORTED BY OPEN CEILING CABLE DISTRIBUTION. THE SLACK LOOP MUST BE SUPPORTED ABOVE THE WAO IN NEAT AND REPEATABLE FASHION THAT MEETS BOTH BICSI INSTALLATION AND MANUFACTURER PRACTICES.

#### 1. ALL TELECOMMUNICATIONS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE GAVILAN COLLEGE TELECOMMUNICATIONS INFRASTRUCTURE STANDARDS AND CURRENT MANUFACTURER AND BICSI INSTALLATION PRACTICES. THESE STANDARDS HAVE BEEN ESTABLISHED TO EXCEED ALL CURRENT CODE AND BICSI INSTALLATION PRACTICE. ANY ITEMS THAT RAISE QUESTION SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE GAVILAN COLLEGE REPRESENTATIVE IN WRITING. IT IS ALWAYS A BEST PRACTICE TO PROVIDE THE AHJ WITH DETAIL ON ANY AND ALL CONSTRUCTION ITEMS THAT COULD BE QUESTIONED BY THE AHJ. THE PROJECT DOCUMENTATION PACKAGE AND ASSOCIATED GAVILAN COLLEGE STANDARD ARE NOT TO BE REGULATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VALIDATE THAT THESE REQUIREMENTS WILL MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENT TO PROVIDE THE UNIVERSITY WITH A

2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS. THE DOCUMENT WHICH PRESCRIBES AND ESTABLISHES THE COMPLETE DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE GAVILAN COLLEGE REPRESENTATIVE IN WRITING IMMEDIATELY UPON DISCOVERY.

DETAILS OF WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT FOR THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND THE GAVILAN COLLEGE REPRESENTATIVE UPON IDENTIFICATION OF SUCH OMISSIONS, MISDESCRIPTION, AND UNCLEAR DIRECTIONS IMMEDIATELY. THE CONTRACTOR SHALL PERFORM ALL PROJECT TASKS AND ASSEMBLY BUILDS AS PER BICSI STANDARDS AND MANUFACTURER'S REQUIREMENTS ALONG WITH COORDINATING AND WORKING WITH THE UNIVERSITY TO CORRECT SUCH DOCUMENTATION

4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED IMMEDIATELY UPON THEIR RECEIPT AND PROMPTLY NOTIFY GAVILAN COLLEGE OF ANY DISCREPANCIES. THIS INCLUDES BUT NOT LIMITED TO, DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS, OR DRAWINGS AND MANUFACTURER INSTALLATION INSTRUCTIONS THAT WILL CAUSE EXTENDED WARRANTY ISSUES. OR DRAWINGS AND GOVERNING CODES AND BEST PRACTICES. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND UNIVERSITY REPRESENTATIVE ANY DISCREPANCIES BETWEEN DRAWINGS AND HOW THE CONTRACTOR NORMALLY DELIVERS THE SERVICES DESCRIBED IN THE DRAWINGS OR SPECIFICATIONS.

5. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE NEW AND FREE FROM ANY KNOWN DEFECT. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL (UL™) LISTING, CLASSIFIED, AND/OR PERFORMANCE VERIFIED MARK OR FROM A UNIVERSITY APPROVED ALTERNATIVE TESTING ORGANIZATION. ALL MATERIALS SHALL BE INSTALLED AND USED IN THE MANNER FOR WHICH THE MANUFACTURER INTEND THEM FOR. THIS APPLIES FOR BOTH PIECE

REQUIRED WORK DEVIATIONS AND CLARIFICATIONS TO THE PLANS AND SPECIFICATIONS OF THIS PROJECT BY GAVILAN COLLEGE AND ITS REPRESENTATIVES PRIOR TO ANY FIELD ACTIVITY.

BICSI INSTALLATION PRACTICES. GAVILAN COLLEGE DEMANDS THE UTMOST PROFESSIONALISM WHEN WORK IS BEING PERFORMED AT GAVILAN COLLEGE CAMPUS AND HOLDS ALL CONTRACTORS TO THAT LEVEL OF PROFESSIONALISM. THE WORK SITE SHALL BE KEPT CLEAN AND FREE FROM DEBRIS. IT IS EVERY CONTRACTOR AND ALL THEIR REPRESENTATIVE'S RESPONSIBILITY TO GUARD AGAINST ANY DAMAGE TO GAVILAN COLLEGE PROPERTY AND THE IMMEDIATE REPAIR IF ANY DAMAGE IS CAUSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE AS

8. THE CONTRACTOR SHALL NOT BORE, NOTCH, OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE UNIVERSITY, ARCHITECT, AND STRUCTURAL ENGINEER. WITH PERMISSION FROM THE ABOVE AND PRIOR TO ALL CUTTING, DRILLING, NOTCHING, CORING, ETC. OF CONCRETE STRUCTURE AND FACADE THESE SURFACES SHALL BE X-RAYED OR GROUND PENETRATING RADAR USED TO ACCURATELY LOCATE REBAR, POST-TENSION CABLES & RODS, CONDUITS, AND ANY OTHER EMBEDDED POTENTIAL OBSTRUCTIONS TO ENSURE THAT NO DAMAGE IS CAUSED TO ANY STRUCTURAL REINFORCEMENTS.

IAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVEI POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS WITH INFORMATION INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATION SECTIONS WHERE

10. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WHEN WORKING IN AREAS WITH EXISTING CEILINGS AND SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILES WITHOUT DAMAGING OR SOILING THE CEILING TILES. CHIPPED, DAMAGED, CRACKED, OR BROKEN

11. ALL FOOTAGES IDENTIFIED ON DRAWINGS OR SCALED OFF OF DRAWINGS ARE TO BE CONSIDERED ESTIMATES AND ARE REQUIRED TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO ORDERING OF

### 12. ALL CABLE TRAYS, LADDER (TYPE) RACKING, "BASKET TYPE TRAY, CONDUIT & SLEEVES, EQUIPMENT RACKS, PROTECTION PANELS, AND CABLE SHEATHS SHALL BE BONDED TO AN

13. ACCORDING TO TIA STANDARDS AND BICSI METHODOLOGIES PULL-BOXES LOCATED WITHIN A STRUCTURE ARE TO BE PLACED AT 100' INCREMENTS AND PROPERLY SPACED WITHIN RUNS OF MORE THAN 150'. PULL-BOXES ARE TO BE PLACED IN CONDUIT RUNS THAT EXCEED A MAXIMUM OF 180-DEGREES IN CHANGES OF DIRECTION. TELECOMMUNICATIONS PULL-BOXES ARE TO BE SIZED AT A MINIMUM OF TWELVE (12) TIMES THE DIAMETER OF THE LARGEST CONDUIT. PULL-BOXES SHOULD NOT BE USED FOR CHANGES OF DIRECTION. THESE STANDARDS ARE TO BE ADHERED TO WHERE EVER PRACTICAL AND ANY DEVIATION TO THESE STANDARDS REQUIRES A SHOP-DRAWING, IF DISCOVERED DURING THE SUBMITTAL PHASE, TO REMEDIATE THE ISSUE OR BY AN RFI DURING THE CONSTRUCTION INSTALLATION PHASE. THE UNIVERSITY MAY ELECT TO INCREASE THE CONDUIT SIZE OR QUANTITY OF CONDUITS TO MITIGATE THE ISSUE FOR THE EXCESS LENGTH, ADDITIONAL QUANTITY OF CHANGES OF DIRECTION, AND/OR THE REDUCED SIZE OF PULL-BOXES WITHIN THE GIVEN PATHWAY. THE CONTRACTOR IS REQUIRED TO HAVE

14. AS A STANDARD, ALL INTRA-BUILDING PATHWAYS SHALL HAVE A MINIMUM OF 25% AVAILABLE CAPACITY AT THE SCHEDULED END OF THE PROJECT. SHOULD THIS PERCENTAGE NOT BE ACHIEVABLE, THIS ISSUE MUST BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION

15. USE "J" HOOKS FOR STATION CABLE DISTRIBUTION IN OPEN CEILING ENVIRONMENTS IS ACCEPTABLE TO GAVILAN COLLEGE AS LONG AS THE FOLLOWING PARAMETERS ARE MET. DO NOT USE CEILING SUPPORT WIRE OR CEILING HANGERS. DO NOT USE SUPPORTS FOR ANY OTHER BUILDING SERVICES UNLESS PRIOR WRITTEN APPROVAL FOR THEIR USE IS GIVEN AND VERIFIED WITH PROJECT STRUCTURAL ENGINEER. NEVER IS IT ACCEPTABLE FOR CABLING TO IMPEDE OR HINDER THE ACCESSING OF THE ABOVE CEILING SPACE OR ANY ABOVE CEILING MOUNTED EQUIPMENT. CABLES ARE NOT TO BE WRAPPED AROUND ANY BUILDING STRUCTURAL SUPPORTS OR BUILDING SERVICES. ALL APPROPRIATE GAVILAN COLLEGE AND BICSI INSTALLATION PRACTICE CLEARANCES FROM FIXTURES, CONTROLS, AND ACCESS DEVICES OF ANY KIND ARE TO BE ADHERED TO. CABLING IS NEVER TO RUN THROUGH OR IMPEDE THE OPERATION OF ANY AIR-

16. WHERE PATHWAY CONSISTS OF MULTIPLE CONDUITS OR SLEEVES, A PATHWAY MUST BE FILLED TO CURRENT TIA AND BICSI INSTALLATION RECOGNIZED MAXIMUM FILL BEFORE UTILIZING THE NEXT

17. OVERHEAD AND WALL MOUNTED LADDER (TYPE) RACKING INSTALLATION SHALL MATCH THE DRAWINGS AS CLOSELY AS POSSIBLE AND REQUIRES A SHOP DRAWING FOR EACH ROOM LOCATION. THE PACKAGE IS TO INCLUDE A BILL OF MATERIALS WITH PART NUMBERS FROM RACKING MANUFACTURER FOR MOUNTING AND CONNECTION PIECE PARTS. PRIOR TO ANY ROUGH-IN WORK BEING PERFORMED THESE SUBMITTALS MUST BE APPROVED BY THE GAVILAN

18. ALL CABLING AND THEIR PATHWAYS PASSING THROUGH A RATED FIRE OR SMOKE BARRIER MUST BE PROPERLY SLEEVED AND FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP ASSEMBLIES. FIRESTOP ASSEMBLIES ARE TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS FOR THE TYPE OF BARRIER, PATHWAY SIZE, AND QUANTITY OF CABLES THE FIRESTOP ASSEMBLY IS BEING INSTALLED FOR. CONTRACTOR IS REQUIRED TO MAINTAIN TRAINING RECORDS FOR ALL STAFF PERFORMING FIRESTOP ASSEMBLY INSTALLATION WORK.

19. CABLE PULLING - LINE/ROPE/TAPE SHALL BE PLACED IN ALL NEW CONDUITS. ALL UNUSED CONDUITS SHALL ALSO BE CAPPED AND/OR PROPERLY FIRE STOPPED IN A MANNER APPROVED BY

20. CONTRACTOR TO COORDINATE WAO AND SUPPORTING CONDUIT WITH THE ELECTRICAL CONTRACTOR WHERE THE ELECTRICAL CONTRACTOR IS A DIFFERENT ORGANIZATION THAN LOW-

21. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED FEET AT A MINIMUM EVERY FIVE

23. ALL STATION CABLING IS TO BE MECHANICALLY PROTECTED IN PLACE UNLESS OTHERWISE

IDENTIFIED IN THESE DRAWINGS, BY A CONTRACT CHANGE RECORD, OR BY A RFI RESPONSE FROM THE GAVILAN COLLEGE REPRESENTATIVE IN WRITING DIRECTING SURFACE-MOUNT EXPOSED AS

RECOGNIZED MANUFACTURER INSTALLATION REQUIREMENTS AND BICSI INSTALLATION PRACTICES. UTP (CATEGORY) CABLE TESTING RESULTS SHALL BE ONE TEST RECORD FOR EACH CABLE AND THE RECORD MUST INCLUDE THE UNIVERSITY'S APPROVED CABLE IDENTIFICATION STANDARD NAMING/NUMBERING SCHEME. OPTICAL FIBER TESTING SHALL FOLLOW ALL UNIVERSITY AND MANUFACTURER INSTALLATION PRACTICES. COAX TESTING SHALL FOLLOW BOTH GAVILAN COLLEGE AND THE ANSI/SCTE CABLE TESTING STANDARDS & BEST PRACTICES, INCLUDING BUT NOT LIMITED TO; ANSI/SCTE - 10-2014, 40-2011, 44-2010, 47-2007, 48-3-2011.

26. ALL STATION OUTLETS, WAO, AND TERMINATION POINTS INCLUDING EXISTING WAO UTILIZED UNDER THIS PROJECT SCOPE SHALL BE PROPERLY LABELED AND IDENTIFIED USING THE STANDARD GAVILAN COLLEGE INTERNAL DISTRIBUTION NAMING/NUMBERING SCHEME, IDENTIFIED IN THIS DRAWING SET. ALL LABELS ARE TO BE MACHINE GENERATED AND AN EXCEL TYPE MATRIX CREATED DEFINING LOCATION OF BOTH ENDS OF EACH LABELED CABLE. AS-BUILT CLOSEOUT PACKAGE MUST INCLUDE THESE STATION AND TERMINATION POINTS IDENTIFIED ON FLOOR PLANS FOR EACH LEVEL/FLOOR IN ADDITION TO THE STATION CABLING MATRIX. THE SAME CABLE IDENTIFICATION IS ALSO REQUIRED TO BE INCLUDED ON EACH CABLE TESTED RECORD BOTH HARD AND SOFT-COPY RECORD.

- 27. INCLUDED AS PART OF THE CABLING AS-BUILT DOCUMENTATION PACKAGE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TO GAVILAN COLLEGE THE ADD ON TO THE CURRENT STRUCTURED CABLING SOLUTION MANUFACTURER'S 25-YEAR EXTENDED WARRANTY CERTIFICATE FOR THIS PROJECT.
- 28. THE WAO UTP 8-CONDUCTOR JACKS ARE DESCRIBED WITHIN THIS DOCUMENT SET AS RJ-45 JACKS/INSERTS. THE DESIGNERS ARE AWARE THAT ABBREVIATION RJ-45 IS A FCC - REGISTERED JACK WITH 8-CONDUCTORS AND DESCRIPTION IN THIS DOCUMENT SET IS FOR A UTP CATEGORY CABLE RATED JACK/INSERT AND NOT FOR FCC INTERFACE JACKS.
- 29. NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE USED IN THE DRAWING SET CURRENTLY, BUT ARE THERE, SHOULD THE SCOPE GROW TO INCLUDE SUCH WORK.
- 30. THE CONTRACTOR SHALL PROVIDE WIRE GUARDS FOR ALL EXPOSED AUDIO, VISUAL, AND NETWORK DEVICES LOCATED IN AREAS THAT CAN BE SUBJECT TO VANDALISM. FOR CLARIFICATION THE CONTRACTOR SHALL DISCUSS WITH CONSTRUCTION MANAGER.
- 31. ALL CONDUITS CROSSING BUILDING SEISMIC SEPARATIONS OR EXPANSION JOINTS SHALL BE PROVIDED WITH APPROVED CONNECTORS. REFER TO ARCHITECTURAL PLANS FOR ALL EXPANSION JOINT LOCATIONS.
- 32. COORDINATE INSTALLATION OF LIGHTING FIXTURES WITH CABLE TRAY AND EQUIPMENT IN BDF, IDF, AND ALL A/V ROOMS/SPACES TO MAINTAIN REQUIRED LIGHTING LEVELS WITH ALL EQUIPMENT IN PLACE.
- 33. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS OR SHOP DRAWINGS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE FOR THE UNIVERSITY.
- 34. UNIVERSITY STANDARDS, MANUFACTURER, BICSI INSTALLATION PRACTICES FOR PROJECT SUBMITTALS AND SHOP DRAWINGS ARE IDENTIFIED IN SPECIFICATIONS SECTIONS LISTED IN DIVISION 26, 27, AND 28, OF THE PROJECT CONTRACT DOCUMENTATION SET

## SCOPE OF WORK

- INSTALL EMPTY CONDUIT RACEWAY SYSTEM BETWEEN FIRST FLOOR IDF AND SECOND FLOOR ROOMS AS INDICATED.
- RESTORE ARCHITECTURAL FINISHES (FLOOR, WALL, CEILING) BEING DISTURBED BY THE WORK TO ORIGINAL CONDITION.
- PROVIDE THROUGH PENETRATION FIRE-STOPPING AT ALL RATED FLOOR/WALL BARRIER.
- ALL SLEEVES (BOTH ENDS) & CONDUITS THAT END INTO A SPACE OR AT A CABLE TRAY SHALL BE FIRE-STOPPED WITH AN APPROVED ASSEMBLE CONSISTING OF AN APPROPRIATE AMOUNT OF MINERAL WOOL (SAFING INSULATION) & RE-ENTERABLE INTUMESCENT FIRESTOP PUTTY INSTALLED AS PER ALL MANUFACTURERS INSTRUCTIONS AND APPROVED FOR USE BY THE CONSTRUCTION MANAGER.

## SHEET INDEX

<u>SHEET</u>	DESCRIPTION
TT001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
TS100	SITE PLAN
TT101	FIRST FLOOR PLAN
TT102	ATTIC PLAN - NOT ISSUED
TT401	ENLARGED TELECOM PLANS - NOT ISSUED
TT402	ENLARGED TELECOM PLANS - NOT ISSUED
TT501	DETAILS - NOT ISSUED
TT502	DETAILS - NOT ISSUED
TT601	SCHEDULES - NOT ISSUED
TT701	SINGLE LINE DIAGRAMS - NOT ISSUED

![](_page_43_Picture_119.jpeg)

![](_page_44_Figure_0.jpeg)

GENERAL NOTES

![](_page_44_Figure_5.jpeg)

1 EXISTING TELECOMMUNICATIONS MANHOLE TO REMAIN.

![](_page_44_Picture_8.jpeg)

![](_page_45_Figure_0.jpeg)

![](_page_45_Figure_2.jpeg)

### NOTES

AUDIENCE CHAMBER CEILING TO REMAIN AND PROTECTED IN PLACE. CONDUITS AND CABLE PATHWAYS WITHIN AUDIENCE CHAMBER CEILING TO REMAIN AND BE PROTECTED IN PLACE.

### GENERAL NOTES

- A. ALL EXISTING VOICE/DATA, SECURITY AND AV CABLING INFRASTRUCTURE TO BE DEMOLISHED AND REMOVED.
- B. ALL EXISTING CONDUITS, CABLE TRAY AND J-HOOKS TO BE DEMOLISHED AND REMOVED U.O.N.
- C. ALL EXISTING ANALOG VIDEO SURVEILLANCE CAMERA AND CABLING SHALL BE REMOVED. CONDUITS AND BACK BOXES FOR THE VSS TO REMAIN AND PROTECTED IN PLACE UNLESS LOCATED ON A DEMOLISHED WALL.
- D. ALL EXISTING SECURITY ACCESS CONTROL INFRASTRUCTURE, CABLING, ENCLOSURES, CARD READERS AND EQUIPMENT SHALL BE REMOVED.
- E. ALL NEW HORIZONTAL CABLING SHALL BE PROVIDED AND DATA OUTLET PROVIDED PER DISTRICT STANDARDS. ESTIMATED QUANTITY OF 150 OUTLETS WITH (2) CAT6A CABLES PER OUTLET.
- F. ALL NEW VIDEO SURVEILLANCE SYSTEM (VSS) SHALL BE PROVIDED TO DISTRICT STANDARDS. AREAS TO BE COVERED SHALL AT MINIMUM INCLUDE: BUILDING ENTRIES, LOBBY AREAS, BUILDING EXTERIOR (ALL SIDES), STAIRWELL ENTRIES/EXITS AND TECHNOLOGY ROOMS.
- G. ALL NEW SECURITY ACCESS CONTROL SYSTEM SHALL BE PROVIDED TO DISTRICT STANDARDS. AREAS TO RECEIVE ACCESS CONTROL SHALL AT MINIMUM INCLUDE: BUILDING ENTRY DOORS, TELECOM ROOMS, ELECTRICAL ROOMS AND BACK OF HOUSE MECHANICAL ROOMS.
- H. ALL NEW WIRELESS ACCESS POINT SYSTEM TO BE PROVIDED PER DISTRICT STANDARD TO INCLUDE FULL COVERAGE IN ALL AREAS WITHIN THE BUILDING.

![](_page_45_Picture_14.jpeg)

![](_page_46_Figure_0.jpeg)

![](_page_46_Figure_3.jpeg)

3 CENTERLINE / SIGHTLINE SECTION

SEATING TOTALS:	
21" SEATS	79
22" SEATS	144
23" SEATS	102
24" SEATS	24
LOOSE SEATS	32

TOTAL SEATS	387

![](_page_46_Picture_7.jpeg)

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![](_page_46_Picture_9.jpeg)

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![](_page_46_Picture_11.jpeg)