SANTA TERESA HIGH SCHOOL
THEATER BUILDING 600 UPGRADES

1650 SNELL AVENUE
SAN JOSE, CA 95123

EAST SIDE HIGH SCHOOL DISTRICT

ARTīK
ART & ARCHITECTURE
394-A Umbarger Rd
San Jose, CA 95111
Phone 408.224.9890
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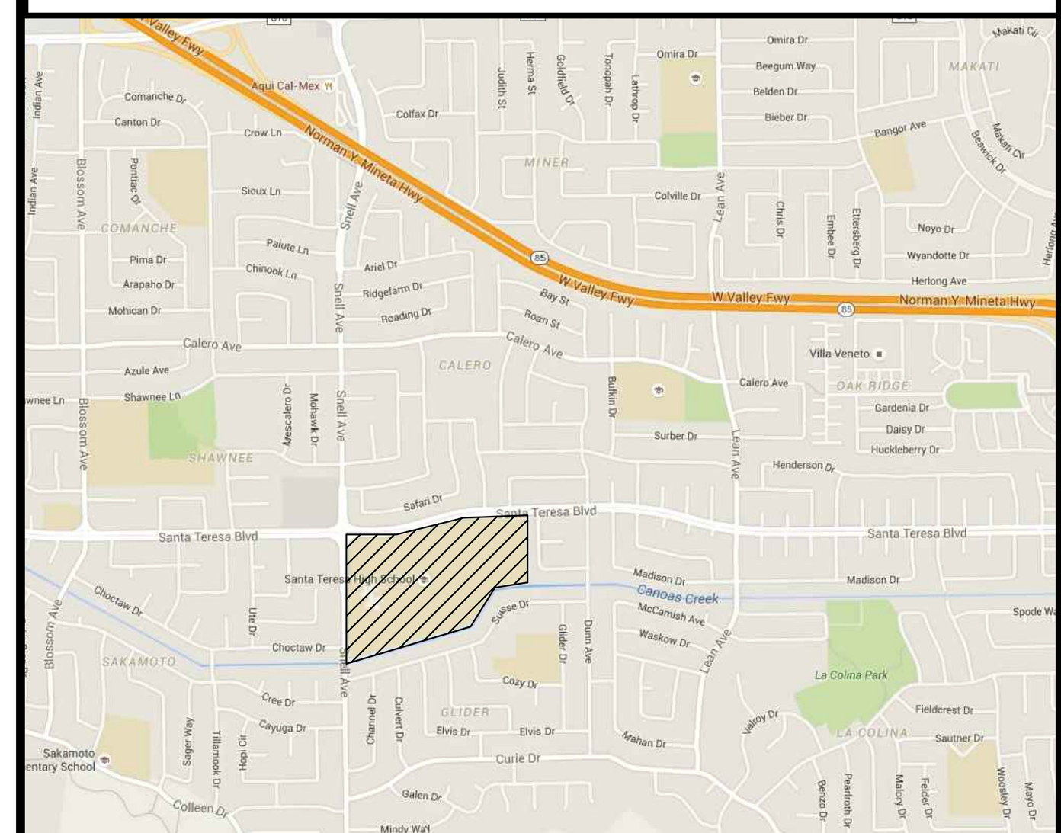
VICINITY MAP



PROJECT DIRECTORY

OWNER	East Side Union High School District 830 North Capitol Avnue San Jose, CA 95133 (408) 347-5000
ARCHITECT	Artik Art & Architecture 394-A Umbarger Road San Jose, CA 95111 (408) 224-9890 (408) 224-9891 (Fax)
ELECTRICAL ENGINEER	Alliance Engineering Consultants, Inc. 4701 Patrick Henry Drive, Bldg 10 Santa Clara, CA 95054 (408) 970-9888 (408) 970-9316 (Fax)
CONSTRUCTION MANAGER	Gilbane Building Company East Side High School District Site Office at James Lick High School 57 North White Road San Jose, CA 95127 (408) 280-3637

GENERAL NOTES

1. Existing construction data shown on the drawings was obtained from available drawings. The contractor shall verify all existing conditions and shall notify the architect of all exceptions before proceeding with the work.
2. See architectural drawings for layout dimensions and elevations except where indicated otherwise.
3. All discrepancies between drawings shall be clarified with the architect prior to proceeding with work.
4. In the event that certain features of the construction are not fully shown or detailed on the drawings or called for in the general notes, then their construction shall be of the same character as similar conditions that are shown or called for.
5. Dimensions, elevations, and existing conditions shall be checked and verified on the job site by each contractor. Errors, ommisions or discrepancies shall be reported to the architect before work begins or supplies are ordered.
6. All dimensions are subject to conventional industry tolerances except where the requirement is stated as a range with specific minimum and maximum end points.
7. Verify electrical, mechanical, fire alarm, telephone and security requirements before construction begins.
8. Work shall be performed in conformance with local, county, state and federal codes, laws, and regulations applicable to this work.
9. Administration of construction per Part 1, Title 24, CCR
   -Duties of architect, structural engineer, or professional engineer per section 4-333(a) & 4-341.
   -Duties of contractor per section 4-343.
   -Verified reports per sections 4-336 and 4-343(c).
   -DSA shall be notified upon onset of construction sections 4-331.
10. The intent of these documents is to construct the school buildings in accordance with Title 24 CCR. Substitutions affecting DSA regulated items shall be submitted as a construction change document (CCD) or addenda, and shall be approved by DSA prior to fabrication and/or installation.
   -Addenda must be signed by Architect and approved by DSA.
   -CCDs shall be signed by the architect or engineer of record, the structural engineer (when applicable), the delegated professional engineer, and DSA.
11. No changes or revisions shall be made following written approval which affects access compliance items unless such changes or revisions are submitted to DSA for approval.
12. Materials and their installation shall comply with applicable codes, standards and manufacturer's recommendations.
13. Separate application may be required for all N.I.C. items not part of DSA approval.
14. Pursuant to CCR Title 19, Subchapter 1, Article 3.05-Access Roads and Article 3.16-Gate Entrances to School Grounds: It is necessary to provide Fire & Life Safety at DSA with written certification from the local fire authority that the above sections are being met to their satisfaction. It is necessary to provide this information prior to receiving approval by Fire & Life Safety. If further information is desired, please contact Fire & Life Safety at (510) 622-3101.
15. Any item identified to be demolished, removed or relocated is to be completely removed, including but not limited to any concealed items (pipes, curbs, framing, beams, fasteners, etc.). All items within a demolished area that must be rerouted in order to maintain continuity shall be done so in accordance with appropriate specification sections in the project manual at no additional cost. If no specification can be found within the project manual, then continuity shall be maintained by current standard methods for construction but not lesser in quality then existing. Any area of demolition or removal shall be left in a completely finished condition as outlined in the project manual.
16. All case work to be attached to walls and floors as indicated on drawings. If no specific detail is referenced, use the details referenced for similar conditions on other casework.
17. Food handling facilities shall comply with local/ county health department requirements.
18. All items listed as N.I.C. are not part of this DSA Approval.

SYMBOL LEGEND

CLASSROOM / A101 / A8.01	ROOM IDENTIFICATION Room Name Room Number Sheet # Where Interior Elevations are Located
01	DEMOLITION KEY NOTE NUMBER
01	KEY NOTE NUMBER
+ 10'-0"	CEILING HEIGHT
A	WINDOW TYPE
A101.1	DOOR IDENTIFICATION
	CONTROL POINT
1	GRID IDENTIFICATION
1 / A7.01	BUILDING SECTION
1 / A12.01	DETAIL CUT
1	REVISION
N	NORTH ARROW

SCOPE OF WORK

The following is a brief description of the scope of work. Contractor shall determine/verify the entire scope as shown in the Construction Documents (Drawings and Specifications) prior to submitting bids.

REMOVE (E) AUDIO/VISUAL EQUIPMENT, LEAVING (E) INFRASTRUCTURE IN PLACE. PROVIDE AND INSTALL AUDIO/VISUAL EQUIPMENT.

GOVERNING CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2014

1. 2013 California Administrative Code, Part 1, Title 24 C.C.R.
2. 2013 California Building Code (CBC), Part 2, Title 24 C.C.R. (2012 International Building Code Volumes 1-2 and 2013 Amendments)
3. 2013 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (2011 National Electrical Code and 2013 Amendments)
4. 2013 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (2012 Uniform Mechanical Code and 2013 Amendments)
5. 2013 California Pl,umbing Code (CPC), Part 5, Title 24 C.C.R. (2012 Uniform Plumbing Code and 2013 Amendments)
6. 2013 California Energy Code (CEC), Part 6, Title 24 C.C.R.
7. 2013 California Fire Code, Part 9, Title 24 C.C.R. (2012 International Fire Code and 2013 Amendments)
8. 2013 California Green Building Standards Code, Part 11, Title 24 C.C.R.
9. 2013 California Reference Standards, Part 12, Title 24 C.C.R.
10. Title 19 C.C.R., Public Safety, State Fire Marshall Regulations

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	Automatic Fire Sprinklers	2013 Edition
NFPA 14	Standpipe Systems	2013 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2013 Edition
NFPA 17a	Wet Chemical Systems	2013 Edition
NFPA 20	Stationary Pumps	2013 Edition
NFPA 22	Water Tanks for Private Fire Protection	2013 Edition
NFPA 24	Private Fire Mains	2013 Edition
NFPA 72	National Fire Alarm Code	2013 Edition
NFPA 80	Fire Doors and Other Opening Protectives	2013 Edition
NFPA 92	Standard for Smoke Control Systems	2012 Edition
NFPA 253	Critical Radiant Flux Floor Covering Systems	2006 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2012 Edition

NOTES

1. Compliance with CFC and CBC Chapter 33, Fire Safety During Construction and Demolition will be enforced.
2. Some codes may not apply if work regulated by such code is not within the scope of this project.

SHEET INDEX

ABBREVIATIONS

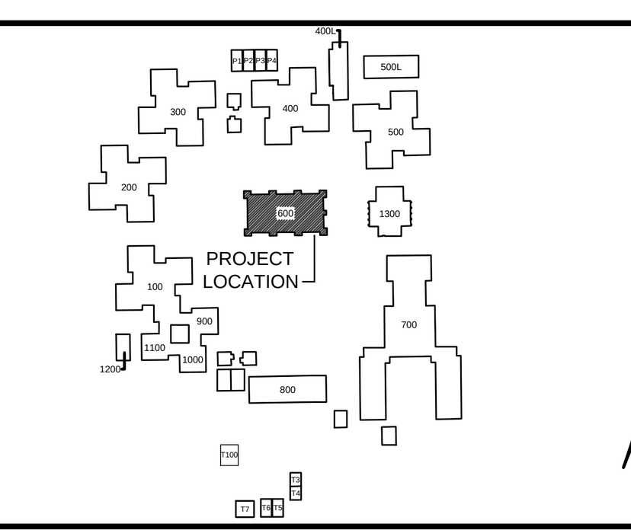
AB	ANCHOR BOLT
ABV	ABOVE
AC	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJUSTABLE/ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
APL	ASSUMED PROPERTY LINE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BB	BOTTOM OF BEAM
BD	BOARD
BEL	BELOW
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRZ	BRONZE
BTWN	BETWEEN
BUR	BUILT UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CF	CUBIC FOOT
CFL	COUNTERFLASHING
CHAM	CHAMFER
CHLKBD	CHALKBOARD
CI	CAST IRON
CJ	CEILING JOIST
CJT	CONTROL JOINT
CLG	CEILING
CLKG	CAULKING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMPO	COMPOSITION (COMPOSITE)
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CORR	CORRIDOR OR CORRUGATED
COTF	CLEAN OUT THROUGH FLOOR
COTG	CLEAN OUT TO GRADE
COTW	CLEAN OUT THROUGH WALL
CR	CURB RETURN
CRC	COLD ROLLED CHANNEL
CSK	COUNTERSINK
CSMT	CASEMENT
CSP	COMBINATION STANDPIPE
CT	CERAMIC MOSAIC (TILE)
CTR	CENTER
CTSK	COUNTERSUNK
CW	COLD WATER
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DO	DOOR OPENING
DPRS	DEPRESSED
DR	DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DWG	DRAWING
DWR	DRAWER
DWS	DRYWALL SCREW
E	EAST
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EDF	ELECTRIC DRINKING FOUNTAIN
EIR	ENVIRONMENTAL IMPACT REPORT
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELECT	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE
EP	END PANEL
EPB	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQPT	EQUIPMENT

ESA	EXPOSED TO STRUCTURE ABOVE
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXPO	EXPOSED
EXST	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAB	FABRICATION
FAC	FACTORY
FAS	FASTEN/ FASTENER
FB	FLAT BAR
FBD	FIBERBOARD
FBGL	FIBERGLASS
FBLK	FIRE BLOCKING
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFT	FLOOR FINISH TRANSITION
FG	FIXED GLASS
FHC	FIRE HOSE CABINET
FHMS	FLATHEAD MACHINE SCREW
FHS	FLAT HEAD SCREW
FHWS	FLATHEAD WOOD SCREW
FIN	FINISH
FJ	FLOOR JOIST
FL	FLOOR
FLASH	FLASHING
FLUOR	FLUORESCENT
FLX	FLEXIBLE
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FPRF	FIREPROOF
FR	FRAME, -D, -ING
FS	FULL SIZE
FSK	FLOOR SINK
FT	FOOT OR FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FX	FIXTURE
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BARS
GEN	GENERAL
GI	GALVANIZED IRON
GKT	GASKET, GASKETED
GL	GLASS, GLAZING
GND	GROUND
GR	GRADE
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HCA	HANDICAPPED ACCESSIBLE
HDB	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HEX	HEXAGONAL
HGT	HEIGHT
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HR	HOUR
HRC	HOT ROLLED CHANNEL
HTG	HEATING
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
INCL	INCLUDE, -D, -ING
INSTR	INSTRUCTION, -S
INSUL	INSULATE, -D, -ION
INT	INTERIOR
INV	INVERT
IS	INTERMEDIATE SUPPORT
JAN	JANITOR
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAV	LAVATORY
LB	LAG BOLT
LH	LEFT HAND
LKR	LOCKER
LT	LIGHT
LVR	LOUVER
LWR	LOW WALL RETURN AIR GRILL
LWS	LOW WALL SUPPLY AIR GRILL
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT

MC	MEDICINE CABINET
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MTL	METAL
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MKRBD	MARKER BOARD
MLD	MOLDING
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR
MT	METAL THRESHOLD
MTD	MOUNTED
MUL	MULLION
N	NORTH
(N)	NEW
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OA	OVERALL
OBS	OBSCURE
O/C	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPQ	OPAQUE
OPT	OPTIONAL
PAD	POWER ACTUATED DEVICE
PDB	PARTICLE BOARD
PEN	PENETRATION, -S
PERF	PERFORATE, -D
PERM	PERIMETER
PFB	PREFABRICATE, -D
PIP	POURED-IN-PLACE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLT	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT, -ED
POC	POINT OF CONNECTION
PP	PERMIT PACKAGE
PR	PAIR
PRCST	PRE-CAST
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTD/R	PAPER TOWEL DISPENSER & RECEPTACLE
PTDF	PRESSURE TREATED DOUGLAS FIR
PTN	PARTITION
PVA	POLYVINYL ACETATE
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RISER
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDWD	REDWOOD
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCE, -D, -ING
REM	REMOVE
REQ	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION, -S, REVISED
RFG	ROOFING
RFL	REFLECT, -ED, -IVE
RGTR	REGISTER
RH	RIGHT HAND
RL	RIDGE LINE
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RT	RESILIENT TILE
RWL	RAINWATER LEADER
S	SOUTH
S/FEC	SURFACE-MOUNTED FEC
SC	SOLID CORE
S.C.D.	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
S.E.D.	SEE ELECTRICAL DRAWING
SH	SHELF
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SKL	SKYLIGHT
S.L.D.	SEE LANDSCAPE DRAWINGS
S.M.D.	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPENSER
SP	STANDPIPE

S/P	SHELF & POLE
SPEC	SPECIFICATION
SPVC	STANDPIPE VALVE CABINET
S.P.D.	SEE PLUMBING DRAWING
SQ	SQUARE
S.S.	STAINLESS STEEL
SST	STAINLESS STEEL
S.S.D.	SEE STRUCTURAL DRAWINGS
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRL	STRUCTURE/STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK, -NESS
THRU	THROUGH
TJ	TOOL JOINT
TKBD	TACKBOARD
TME	TO MATCH EXISTING
TOB	TOP OF BEAM
TOC	TOP OF CURB OR CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TRD	TREAD
TS	TUBE STEEL
TSB	TOP SET BASE
TSCD	TOILET SEAT COVER DISP.
TSL	TOP OF SLAB
TV	TELEVISION
TYP	TYPICAL
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VAR	VARIES
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VCTB	VINYL COVERED TACKBOARD
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VNR	VENEER
VO	VENT OVER/OFFSET
VR	VENT RISER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
WFG	WIRED FIXED GLASS
WHC	WALL HUNG CABINET
WI	WROUGHT IRON
WIN	WINDOW
WIM	WIRE MESH
W/O	WITHOUT
WO	WHERE OCCURS
WP	WATERPROOF
WSCT	WAINSCOT
WSP	WET STANDPIPE
WST	WASTE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
&	AND
<	ANGLE
@	AT
℄	CENTER LINE
Ø	DIAMETER
#	NUMBER OR POUND
±	PLUS/MINUS
⅊	PROPERTY LINE

Key Plan



Project Title
SANTA TERESA HIGH SCHOOL
THEATER BUILDING 600 UPGRADES
6150 SNELL AVENUE
SAN JOSE, CA 95123
EAST SIDE UNION HIGH SCHOOL DISTRICT

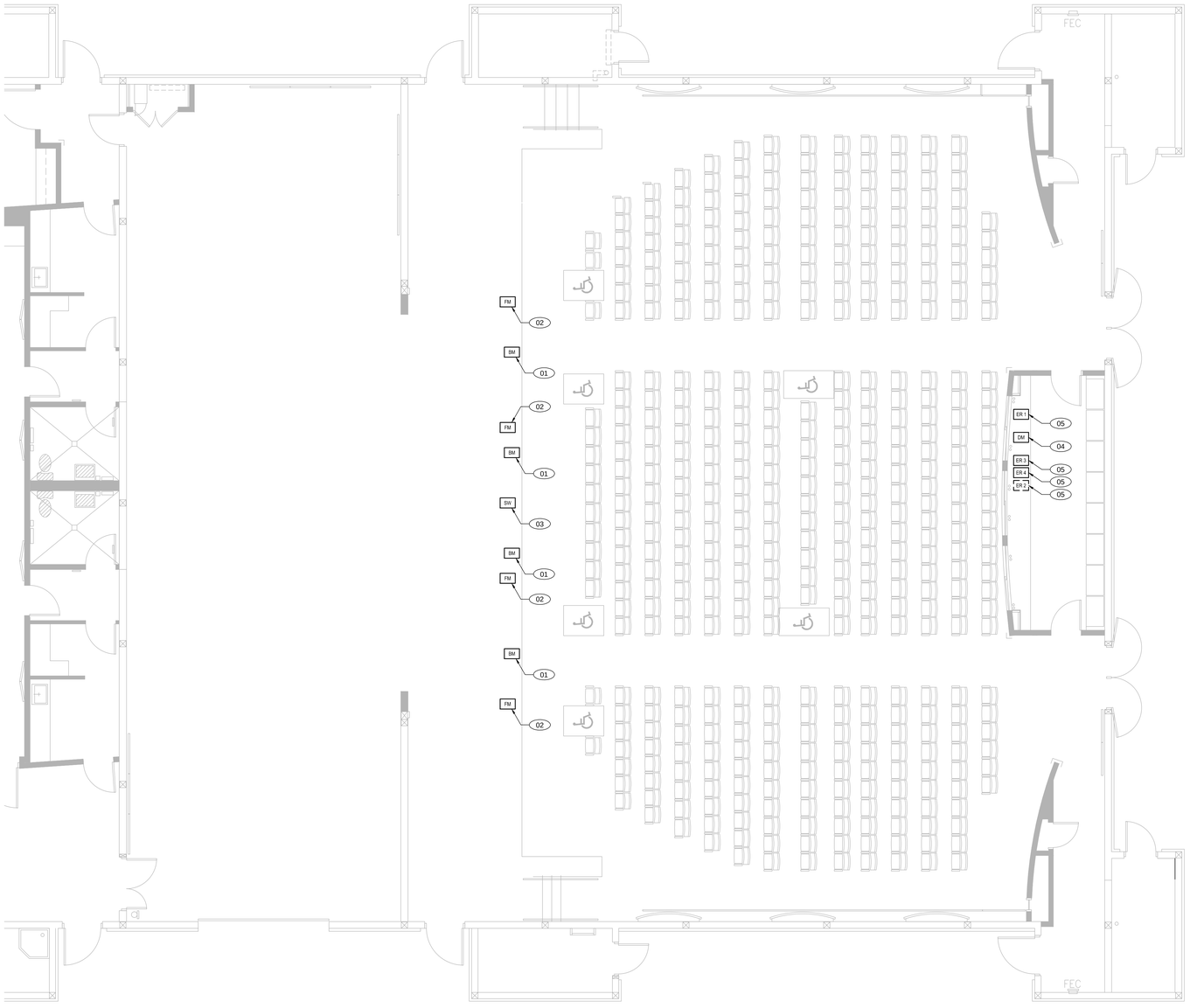
No	Revisions/Submissions	Date
-	50% Construction Documents	11.07.16

Drawing Title
TITLE SHEET

Regulatory Agency Approval
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
N/A
AC____ FLS____ SS____
DATE____

Architect Seal
LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-17
STATE OF CALIFORNIA

DSA File Number	N/A
DSA Application Number	N/A
Project No.	135125
Date	03.07.17
Drawing No	A0.01



1 THEATER BUILDING 600 - A/V FLOOR PLAN — 1/4"=1'-0"

GENERAL NOTES

1. TYPICAL, EXISTING TO REMAIN U.O.N.; PROTECT ALL WORK TO REMAIN AND/OR BE REINSTALLED. ANY DAMAGE SHALL BE REPAIRED/ REPLACED TO OWNER'S SATISFACTION.
2. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
3. CONTRACTOR TO FIELD VERIFY EXTENT OF ALL DEMOLITION REQUIRED TO ACCOMMODATE CONSTRUCTION.
4. CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT AS SHOWN IN EQUIPMENT LIST AND LABELED AS CFCI. ANY EQUIPMENT PROVIDED AND NOT NOTED/SHOWN TO BE INSTALLED SHALL BE FURNISHED TO THE SITE/OWNER AS EXTRA EQUIPMENT.
5. CONTRACTOR TO PROVIDE (3) SPEAKER CABINETS AS SHOWN IN EQUIPMENT LIST, AND INSTALL (2) SPEAKER CABINETS AS SHOWN ON 1/A3.10 AND AS NOTED IN KEYNOTE 2. CONTRACTOR SHALL FURNISH ADDITIONAL (1) SPEAKER CABINET TO SITE/OWNER.
6. CONTRACTOR TO INSTALL ALL EQUIPMENT AS SHOWN IN EQUIPMENT LIST AND LABELED AS OFCI.

KEYNOTES

01 PROVIDE AND INSTALL BOUNDARY MICROPHONE AT LIP OF STAGE, PER MANUFACTURER'S RECOMMENDATIONS, TYP.

02 PROVIDE AND INSTALL FLOOR MONITOR UNDERNEATH STAGE FLOOR, FACING THEATER HOUSE, PER MANUFACTURER'S RECOMMENDATIONS, TYP.

03 PROVIDE AND INSTALL SUBWOOFER UNDERNEATH STAGE FLOOR, FACING THEATER HOUSE, PER MANUFACTURER'S RECOMMENDATIONS, TYP.

04 REMOVE, SALVAGE, AND RETURN (E) ANALOG MIXER TO SITE/OWNER. PROVIDE AND INSTALL DIGITAL MIXER.

05 (E) EQUIPMENT RACK TO REMAIN.

LEGEND

BM BOUNDARY MICROPHONE, TYP.

FM FLOOR MONITOR, TYP.

SW SUBWOOFER, TYP.

DM DIGITAL MIXER, TYP.

ER (E) EQUIPMENT RACKS, REFER TO DETAILS 2/-, 3/-, 4/-, AND 5/-.

(E) ITEMS TO REMAIN, TYP.

(E) WALLS TO REMAIN, TYP.

A/V EQUIPMENT LIST

Product Type	Manufacturer	Model #	Quantity	OCFI / CFCI
Speaker Cabinet	JBL	SRX835	3	CFCI
Subwoofer	JBL	SRX818S	1	CFCI
Amplifier	Crown	DCi41250	1	CFCI
Digital Mixer	Behringer	X32	1	CFCI
Loud Speaker Management System	dbx	DriveRack VENU360	1	CFCI
Power Sequencer	Furman	ASD-120	1	CFCI
Hanging Condenser Microphone	Audix	ADX40	4	CFCI
Microphone Cable	Rapco	N8M1-100	4	CFCI
Boundary Microphone	AKG	PCC160	4	CFCI
Microphone Cable	Rapco	N8M1-50	4	CFCI
Wireless Belt/Lav Microphone	Sennheiser	ew122 G3	18	CFCI
Wireless Handheld Microphone	Sennheiser	ew135 G3	4	CFCI
Stereo Mixer	Shure	SCM262	1	CFCI
Blu-Ray DVD Player	Tascam	BD-01U	1	CFCI
Matrix Switcher	Kramer	VP-440	1	CFCI
HDMI Extender	MuxLab	500401	1	CFCI
HDMI/Bi-IR Extender	MuxLab	500404	1	CFCI
Stereo Hi-Fi Balun	MuxLab	500028	1	CFCI
CAT5 Cable	-	CAT5e Blue	1,000 feet	CFCI
HDMI Cable	Hosa	HDMI310	2	CFCI
Floor Monitor	JBL	SRX812	4	CFCI
Condenser Microphone	Shure	KSM137	2	CFCI
Mini Condenser Microphone	Audix	M1250B	4	CFCI
Omnidirectional Lavalier Microphone	Countryman	B3W5FF05T5R	4	CFCI
Video Projector	*Panasonic*	*PT-DW740US*	*2*	*OFCI*
LED PAR Light	*Chauvet*	*SlimPAR 38*	*8*	*OFCI*
Ellipsoidal Spotlight	*ETC*	*Source Four jr*	*6*	*OFCI*

A/V SYSTEM COMMISSIONING AND TRAINING

1. APPROPRIATELY TRAINED PERSONNEL SHALL REVIEW, TEST, PROGRAM AND OTHERWISE COMPLETE THE SYSTEM, FOLLOWING COMPLETION OF INSTALLATION.
2. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT THAT THE SYSTEM IS AVAILABLE FOR FORMAL CHECKOUT. NOTIFICATION SHALL BE PROVIDED IN WRITING. CHECKOUTS SHALL BE SCHEDULED IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE.
3. AUDIO SYSTEM TUNING
   - 3.A. FOLLOWING COMPLETE SYSTEM INSTALLATION, EACH DEVICE SHALL BE SET FOR CORRECT GAIN/STAGING.
     - 3.A.1. THIS IS BEST ACCOMPLISHED WITH AN OSCILLOSCOPE AND A 400HZ TONE GENERATOR, BUT OTHER METHODS MAY BE USED.
     - 3.A.2. IF THE SYSTEM HAS BEEN SET CORRECTLY, THE CONSOLE'S VU METERS WILL BE AT ZERO WHEN THE SYSTEM IS ACCOMPLISHING THE SPECIFIED DB-SPL LEVEL. EVERY DEVICE IN THE AUDIO SIGNAL PATH SHOULD CLIP AT THE SAME LEVEL, MAXIMIZING HEADROOM AND KEEPING THE NOISE FLOOR TO A MINIMUM.
   - 3.B. SYSTEM SHALL BE TUNED PRIOR TO FINAL CHECKOUT BY CONTRACTOR, USING A COMPUTER-BASED AUDIO ANALYSIS PROGRAM, SUCH AS SMAART, TEF, OR SIMM. A FACTORY-CERTIFIED INDIVIDUAL SHALL CARRY OUT THE TUNING.
4. UPON COMPLETION OF THE COMMISSIONING, CONTRACTOR SHALL DEMONSTRATE OPERATION AND MAINTENANCE OF THE SYSTEM TO THE CLIENT. COORDINATE WITH THE CLIENT'S SCHEDULES TWO WEEKS IN ADVANCE MINIMUM.
5. TRAINING
   - 5.A. TRAINING SHALL INCLUDE, BUT NOT BE LIMITED TO:
     - 5.A.1. SAFETY PRECAUTIONS
     - 5.A.2. IDENTIFICATION OF ALL ELEMENTS PROVIDED UNDER THIS SECTION.
     - 5.A.3. MAINTENANCE, DIAGNOSTICS AND TROUBLE SHOOTING.
     - 5.A.4. OPERATION OF SYSTEM, INCLUDING NECESSARY SOFTWARE TRAINING.
     - 5.A.5. OPERATIONS AND MAINTENANCE MANUAL ORIENTATION.
   - 5.B. PROVIDE 8 HOURS OF TRAINING, MINIMUM. IF NECESSARY, THIS TRAINING MAY BE SPLIT OVER TWO CONSECUTIVE DAYS.

(E) POWER CONDITIONER	
(E) BLANK	(E) SPLITTER
(E) MICROPHONE	(E) MICROPHONE
(E) MICROPHONE	(E) MICROPHONE
(E) MICROPHONE	(E) MICROPHONE
(E) MICROPHONE	(E) MICROPHONE
(E) SPLITTER	(E) SPLITTER
(E) MICROPHONE	(E) MICROPHONE
(E) MICROPHONE	(E) MICROPHONE
(E) MICROPHONE	(E) MICROPHONE
(E) MICROPHONE	(E) MICROPHONE
(E) SPLITTER	(E) SPLITTER
(E) MICROPHONE	(E) MICROPHONE
(E) MICROPHONE	(E) BLANK

(E) EQUIPMENT RACK #1

(E) POWER CONDITIONER	
(E) BLANK	(E) SPLITTER
WIRELESS HANDHELD	WIRELESS HANDHELD
WIRELESS HANDHELD	WIRELESS HANDHELD
WIRELESS BELT/LAV	WIRELESS BELT/LAV
WIRELESS BELT/LAV	WIRELESS BELT/LAV
(E) SPLITTER	(E) SPLITTER
WIRELESS BELT/LAV	WIRELESS BELT/LAV
WIRELESS BELT/LAV	WIRELESS BELT/LAV
WIRELESS BELT/LAV	WIRELESS BELT/LAV
WIRELESS BELT/LAV	WIRELESS BELT/LAV
(E) SPLITTER	(E) SPLITTER
WIRELESS BELT/LAV	WIRELESS BELT/LAV
WIRELESS BELT/LAV	WIRELESS BELT/LAV

EQUIPMENT RACK #1

NOTES:
1. REMOVE, SALVAGE, AND RETURN (E) MICROPHONES TO OWNER.
2. PROVIDE AND INSTALL FOUR (4) WIRELESS HANDHELD MICROPHONES AS SHOWN.
3. PROVIDE EIGHTEEN (18) WIRELESS BELT/LAV MICROPHONES. INSTALL SIXTEEN (16) WIRELESS BELT/LAV MICROPHONES AS SHOWN, AND PROVIDE TWO (2) SPARE BELT/LAV MICROPHONES TO SITE/OWNER.

2 (E) EQUIPMENT RACK #1

(E) LOUDSPEAKER PROCESSOR
(E) VENT
(E) SUBWOOFER AMPLIFIER
(E) MAIN LOUDSPEAKER AMPLIFIER
(E) MONITOR LOUDSPEAKER 1 & 2 AMPLIFIER
(E) MONITOR LOUDPSKEAER 3 & 4 AMPLIFIER

(E) EQUIPMENT RACK #2

3x6 LOUDSPEAKER MANAGEMENT SYSTEM
(E) VENT
(E) SUBWOOFER AMPLIFIER
(E) MAIN LOUDSPEAKER AMPLIFIER
(E) MONITOR LOUDSPEAKER 1 & 2 AMPLIFIER
(E) MONITOR LOUDPSKEAER 3 & 4 AMPLIFIER

EQUIPMENT RACK #2

NOTES:
1. REMOVE, SALVAGE, AND RETURN (E) LOUDSPEAKER PROCESSOR TO SITE/OWNER.
2. PROVIDE AND INSTALL 3x6 LOUDSPEAKER MANAGEMENT SYSTEM AS SHOWN.
3. PROVIDE AMPLIFIER AS SHOWN IN EQUIPMENT LIST, AND SUPPLY TO SITE/DISTRICT.

3 (E) EQUIPMENT RACK #2

(E) POWER CONDITIONER W/ LIGHTS
(E) BLANK
(E) BLANK
(E) CD PLAYER
(E) DVD PLAYER
(E) AUDIO/VIDEO I/O PANEL
(E) DRAWER

(E) EQUIPMENT RACK #3

(E) POWER CONDITIONER W/ LIGHTS
POWER CONDITIONER
STEREO MIXER
(E) CD PLAYER
BLU-RAY DVD PLAYER
(E) AUDIO/VIDEO I/O PANEL
(E) DRAWER

EQUIPMENT RACK #3

NOTES:
1. PROVIDE AND INSTALL POWER CONDITIONER AS SHOWN.
2. PROVIDE AND INSTALL STEREO MIXER AS SHOWN.
3. REMOVE, SALVAGE, AND RETURN (E) DVD PLAYER TO SITE/OWNER.
4. PROVIDE AND INSTALL BLU-RAY DVD PLAYER AS SHOWN.

4 (E) EQUIPMENT RACK #3

(E) POWER CONDITIONER W/ LIGHTS
(E) PATCHBAY 1
(E) PATCHBAY 2
(E) PATCHBAY 3
(E) BLANK
(E) EQUALIZER
(E) EQUALIZER
(E) MATRIX SWITCHER
(E) BLANK

(E) EQUIPMENT RACK #4

(E) POWER CONDITIONER W/ LIGHTS
(E) PATCHBAY 1
(E) PATCHBAY 2
(E) PATCHBAY 3
(E) BLANK
(E) EQUALIZER
(E) EQUALIZER
MATRIX SWITCHER
(E) BLANK

EQUIPMENT RACK #4

NOTES:
1. REMOVE, SALVAGE, AND RETURN (E) MATRIX SWITCHER TO SITE/OWNER.
2. PROVIDE AND INSTALL MATRIX SWITCHER AS SHOWN.

5 (E) EQUIPMENT RACK #4

ARTiK
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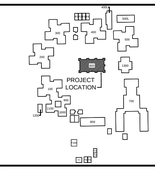
Key Plan



Project Title

SANTA TERESA HIGH SCHOOL

THEATER BUILDING 600 UPGRADES

6150 SNELL AVENUE
SAN JOSE, CA 95123

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
.	50% Construction Documents	11.07.16

Drawing Title

FLOOR PLAN

Regulatory Agency Approval

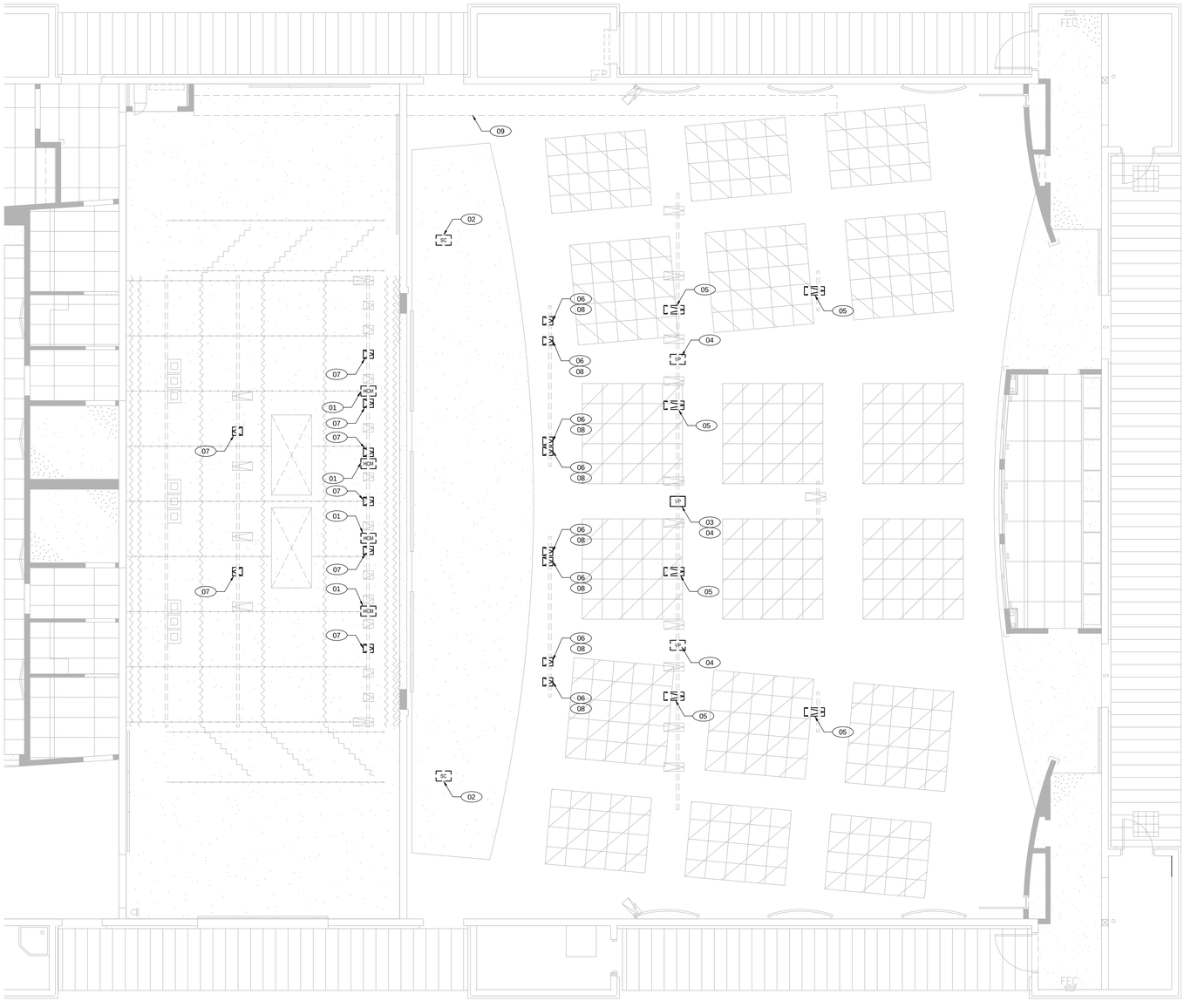
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
N/A
AC_____ FLS_____ SS_____
DATE_____

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-17
STATE OF CALIFORNIA

DSA File Number: N/A
DSA Application Number: N/A
Project No.: 135125
Date: 03.07.17

Drawing No: A3.10



GENERAL NOTES

1. TYPICAL, EXISTING TO REMAIN U.O.N.; PROTECT ALL WORK TO REMAIN AND/OR BE REINSTALLED. ANY DAMAGE SHALL BE REPAIRED/ REPLACED TO OWNER'S SATISFACTION.
2. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
3. CONTRACTOR TO FIELD VERIFY EXTENT OF ALL DEMOLITION REQUIRED TO ACCOMMODATE CONSTRUCTION.
4. CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT AS SHOWN IN EQUIPMENT LIST AND LABELED AS CFCI. ANY EQUIPMENT PROVIDED AND NOT NOTED/SHOWN TO BE INSTALLED SHALL BE FURNISHED TO THE SITE/OWNER AS EXTRA EQUIPMENT.
5. CONTRACTOR TO PROVIDE (3) SPEAKER CABINETS AS SHOWN IN EQUIPMENT LIST, AND INSTALL (2) SPEAKER CABINETS AS SHOWN ON 1/A3.10 AND AS NOTED IN KEYNOTE 2. CONTRACTOR SHALL FURNISH ADDITIONAL (1) SPEAKER CABINET TO SITE/OWNER.
6. CONTRACTOR TO INSTALL ALL EQUIPMENT AS SHOWN IN EQUIPMENT LIST AND LABELED AS OFCI.

KEYNOTES

01 PROVIDE AND INSTALL HANGING CONDENSER MICROPHONE FROM (E) UNISTRUT PER MANUFACTURER'S RECOMMENDATIONS, TYP.

02 REMOVE, SALVAGE, AND RETURN (E) SUSPENDED LOUDSPEAKER, TYP. ALL (E) LOUDSPEAKER ANCHORAGE TO REMAIN, TYP. PROVIDE AND INSTALL SUSPENDED SPEAKER CABINET USING (E) ANCHORAGE, AND MAKE ELECTRICAL CONNECTION VIA (E) ADJACENT JUNCTION BOX IN CEILING.

03 REMOVE, SALVAGE, AND RETURN (E) VIDEO PROJECTOR TO SITE/OWNER.

04 INSTALL VIDEO PROJECTOR ON (E) PIPE GRID IN CEILING, ADJACENT TO (E) PROJECTOR JUNCTION BOX AND WIRING, TYP.

05 INSTALL (6) ELLIPSOIDAL SPOTLIGHTS AS SHOWN, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

06 REMOVE, SALVAGE, AND RELOCATE (E) PAR LIGHTS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

07 REINSTALL (E) SALVAGED PAR LIGHTS AS SHOWN, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

08 INSTALL (8) LED PAR LIGHTS IN PLACE OF (E) SALVAGED PAR LIGHTS, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

09 (E) CONDUIT CABLE TRAY TO REMAIN, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

LEGEND

- HCM — HANGING CONDENSER MICROPHONE, TYP.
- SC — SUSPENDED SPEAKER CABINET, TYP.
- VP — VIDEO PROJECTOR, TYP.
- (E) ITEMS TO REMAIN, TYP.
- (E) WALLS TO REMAIN, TYP.
- (E) THEATRICAL CURTAIN TO REMAIN, TYP.
- (E) UNISTRUT TO REMAIN, TYP.
- (E) PIPE GRID AND WIREMOLD TO REMAIN, TYP.
- (E) GYPSUM BOARD CEILING TO REMAIN, TYP.
- (E) ACOUSTICAL CEILING TO REMAIN, TYP.
- (E) CEILING OPEN TO STRUCTURE, TYP.
- (E) EXTERIOR SOFFIT TO REMAIN, TYP.
- (E) THEATRICAL EQUIPMENT TO REMAIN, TYP.
- ELLIPSOIDAL SPOTLIGHT, TYP.
- LED PAR LIGHT, TYP.

A/V EQUIPMENT LIST

Product Type	Manufacturer	Model #	Quantity	OCFI / CFCI
Speaker Cabinet	JBL	SRX835	3	CFCI
Subwoofer	JBL	SRX818S	1	CFCI
Amplifier	Crown	DCi41250	1	CFCI
Digital Mixer	Behringer	X32	1	CFCI
Loud Speaker Management System	dbx	DriveRack VENU360	1	CFCI
Power Sequencer	Furman	ASD-120	1	CFCI
Hanging Condenser Microphone	Audix	ADX40	4	CFCI
Microphone Cable	Rapco	NBM1-100	4	CFCI
Boundary Microphone	AKG	PCC160	4	CFCI
Microphone Cable	Rapco	NBM1-50	4	CFCI
Wireless Belt/Lav Microphone	Sennheiser	ew122 G3	18	CFCI
Wireless Handheld Microphone	Sennheiser	ew135 G3	4	CFCI
Stereo Mixer	Shure	SCM262	1	CFCI
Blu-Ray DVD Player	Tascam	BD-01U	1	CFCI
Matrix Switcher	Kramer	VP-440	1	CFCI
HDMI Extender	MuxLab	500401	1	CFCI
HDMI/Bi-IR Extender	MuxLab	500404	1	CFCI
Stereo Hi-Fi Balun	MuxLab	500028	1	CFCI
CAT5 Cable	-	CAT5e Blue	1,000 feet	CFCI
HDMI Cable	Hosa	HDMI310	2	CFCI
Floor Monitor	JBL	SRX812	4	CFCI
Condenser Microphone	Shure	KSM137	2	CFCI
Mini Condenser Microphone	Audix	M1250B	4	CFCI
Omnidirectional Lavalier Microphone	Countryman	B3W5FF05T5R	4	CFCI
Video Projector	*Panasonic*	*PT-DW740US*	*3*	*OFCI*
LED PAR Light	*Chauvet*	*SlimPAR 38*	*8*	*OFCI*
Ellipsoidal Spotlight	*ETC*	*Source Four jr*	*6*	*OFCI*

A/V SYSTEM COMMISSIONING AND TRAINING

1. APPROPRIATELY TRAINED PERSONNEL SHALL REVIEW, TEST, PROGRAM AND OTHERWISE COMPLETE THE SYSTEM, FOLLOWING COMPLETION OF INSTALLATION.
2. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT THAT THE SYSTEM IS AVAILABLE FOR FORMAL CHECKOUT. NOTIFICATION SHALL BE PROVIDED IN WRITING. CHECKOUTS SHALL BE SCHEDULED IN ACCORDANCE WITH THE ARCHITECT'S SCHEDULE.
3. AUDIO SYSTEM TUNING
   - 3.A. FOLLOWING COMPLETE SYSTEM INSTALLATION, EACH DEVICE SHALL BE SET FOR CORRECT GAIN/STAGING.
   - 3.A.1. THIS IS BEST ACCOMPLISHED WITH AN OSCILLOSCOPE AND A 400HZ TONE GENERATOR, BUT OTHER METHODS MAY BE USED.
   - 3.A.2. IF THE SYSTEM HAS BEEN SET CORRECTLY, THE CONSOLE'S VU METERS WILL BE AT ZERO WHEN THE SYSTEM IS ACCOMPLISHING THE SPECIFIED DB-SPL LEVEL. EVERY DEVICE IN THE AUDIO SIGNAL PATH SHOULD CLIP AT THE SAME LEVEL, MAXIMIZING HEADROOM AND KEEPING THE NOISE FLOOR TO A MINIMUM.
   - 3.B. SYSTEM SHALL BE TUNED PRIOR TO FINAL CHECKOUT BY CONTRACTOR, USING A COMPUTER-BASED AUDIO ANALYSIS PROGRAM, SUCH AS SMAART, TEF, OR SIMM. A FACTORY-CERTIFIED INDIVIDUAL SHALL CARRY OUT THE TUNING.
4. UPON COMPLETION OF THE COMMISSIONING, CONTRACTOR SHALL DEMONSTRATE OPERATION AND MAINTENANCE OF THE SYSTEM TO THE CLIENT. COORDINATE WITH THE CLIENT'S SCHEDULES TWO WEEKS IN ADVANCE MINIMUM.
5. TRAINING
   - 5.A. TRAINING SHALL INCLUDE, BUT NOT BE LIMITED TO:
   - 5.A.1. SAFETY PRECAUTIONS
   - 5.A.2. IDENTIFICATION OF ALL ELEMENTS PROVIDED UNDER THIS SECTION.
   - 5.A.3. MAINTENANCE, DIAGNOSTICS AND TROUBLE SHOOTING.
   - 5.A.4. OPERATION OF SYSTEM, INCLUDING NECESSARY SOFTWARE TRAINING.
   - 5.A.5. OPERATIONS AND MAINTENANCE MANUAL ORIENTATION.
   - 5.B. PROVIDE 8 HOURS OF TRAINING, MINIMUM. IF NECESSARY, THIS TRAINING MAY BE SPLIT OVER TWO CONSECUTIVE DAYS.

N

1 THEATER BUILDING 600 - A/V FLOOR PLAN — 1/4"=1'-0"

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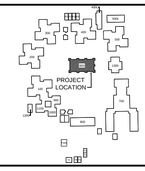
Key Plan



Project Title

SANTA TERESA HIGH SCHOOL

THEATER BUILDING 600 UPGRADES

6150 SNELL AVENUE
SAN JOSE, CA 95123

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	50% Construction Documents	11.07.16

Drawing Title

REFLECTED CEILING PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
N/A
AC_____ FLS_____ SS_____
DATE_____

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-17
STATE OF CALIFORNIA

DSA File Number: N/A
DSA Application Number: N/A
Project No.: 135125
Date: 03.07.17
Drawing No: A4.10

GENERAL NOTES

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.

2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.

3. THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATION AND DEMOLITION WORK. THIS IS TO INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF ELECTRICAL OUTLETS, CONDUITS, WIRING AND ITEMS FOR ELECTRICAL EQUIPMENT REQUIRED AND ANY NECESSARY SPLICING OR EXTENSION OF EXISTING CONDUIT AND WIRING SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND DETERMINE EXTENT OF THE WORK.

4. FIELD VERIFY TO CONFIRM ALL FIRE RESISTIVE CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RESISTIVE FLOORS, WALLS AND CEILINGS.

5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.

6. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

7. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.

8. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.

10. ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED. CUT AND PATCH (E) WALL OR CEILING AS REQUIRED. SURFACE TYPE RACEWAY MAY BE PROVIDE IN LIEU OF CONCEALED CONDUITS. SEE NOTES 34, 35 AND 36 FOR REQUIREMENTS.

11. ALL PENETRATIONS THROUGH FIRE RESISTIVE WALLS SHALL BE TOTALLY SEALED TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GASES, AND WATER THROUGH THE PENETRATION BEFORE, DURING AND AFTER A FIRE CONDITION. THE FIRE RATING OF THE SEALED PENETRATION SHALL BE AT LEAST THAT OF THE WALL INTO WHICH IT IS INSTALLED. THE SEAL SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF THE CONDUIT PASSING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.

20. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONL.Y.

21. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".

22. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.

23. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.

24. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.

25. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.

26. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.

27. THE CONTRACTOR SHALL BE CURRENT SIGNATORY TO IBEW.
THE CONTRACTOR SHALL EMPLOY QUALIFIED, LICENSED IN STATE OF CALIFORNIA AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.

28. WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM.

29. ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT, UNLESS OTHERWISE NOTED.

30. OUTLETS MOUNTED ON WALL BACK TO BACK SHALL MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 24" OR BE SEPARATED BY A STUD AND SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS ON FIRE RATING(S) AND MAY REQUIRE ADDITIONAL MEASURES, INCLUDING PUDDY PACKS OR EQUIVALENT AT DEVICES, FITTINGS OR JUNCTION BOXES, ETC, PER IOR AND/OR ARCHITECT AND HAVE FINAL DECISION.

31. WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY PANDUIT OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS, BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.

32. SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO BUILDING LINES AND ROUTE AROUND SURFACE MOUNTED ITEMS, SUCH AS TACK BOARDS, ETC.

33. GENERALLY, HORIZONTAL RUNS SHALL BE INSTALLED ON THE CORNER BELOW CEILING LINE AS APPROVED BY THE ENGINEER.

34. ALL UNDERGROUND CONDUIT SHALL HAVE #12 TRACER WIRE WITH THWN INSULATION UNDER EACH RUN OF THE UNDERGROUND CONDUIT DUCTBAMK AND 6" FOIL MARKER IN TRENCH. TRACE WIRE SHALL EXTEND AT TERMINATION POINTS A MIN. OF 3 FT FROM SUCH SURFACE AND SHALL BE TRAPPED SECURED TO CONDUIT OR ACCEPTABLE EQUIVALENT.

35. UPON COMPLETION OF CONSTRUCTION, PAINT ALL EXPOSED ELECTRICAL CONDUITS, DEVICES AND BOXES (UNLESS DEVICES OR BOXES ARE ALREADY PRE-FINISHED) PER SPECIFICATION SECTION 09900, PARAGRAPH 2.3 PAINTING SCHEDULE. PAINT COLOR SHALL MATCH THE EXISTING SURFACES.

36. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.

37. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL BE SENT TO DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.

38. RECEPTACLES VERTICALLY INSTALLED SHALL HAVE THE "U" GROUND UP AND HORIZONTALLY INSTALLED SHALL HAVE THE NEUTRAL ON TOP.

39. ALL WIRES SHALL BE IN CONDUIT.

GENERAL NOTES (CONTINUATION)

40. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

41. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

42. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB, BUT LESS THAN OR EQUAL TO 56 LBS, MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.

43. LIGHT FIXTURES WEIGHING GREATER THAN 56 LB SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAUGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAUGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

44. ALL FOUR FOOT x FOUR FOOT LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER UNLESS SUPPORTED PER SECTION 7.2.4. OF DSA IR 25-2-13.

45. SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

46. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. SEE IR 16-9 FOR ADDITIONAL REQUIREMENTS FOR PENDANT MOUNTED FIXTURE.
IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E., AIRCRAFT CABLES TO WALL, THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
IF THE PENDANT MOUNTED LIGHT FIXTURE IS NOT DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, THEN A BRACING ASSEMBLY, PER FIGURE 1 OF DSA IR 25-2-13, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT THE HORIZONTAL FORCE. EXCEPTION: WHERE THE WEIGHT OF THE FIXTURE IS LESS THAN 20 POUNDS, THE COMPRESSION POST SHOWN IN FIGURE 1 OF DSA IR 25-2-13, IS NOT REQUIRED.

47. RIGID CONDUIT SHALL NOT BE USED FOR ATTACHMENT OF THE FIXTURES.

ABBREVIATIONS

A AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS POINT
BRKR	BREAKER
C	CONDUIT, CLOCK
CATV	CABLE TELEVISION
CBC	CALIFORNIA BUILDING CODE
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CALIFORNIA ELECTRIC CODE
CFCI	CONTRACTOR FURNISHED CONTARACTOR INSTALLED
CKT	CIRCUIT
CO	CONDUIT ONLY WITH PULL ROPE
CPS	CURRICULUM AND PRESENTATION SYSTEM
CSC	CLOCK/SPEAKER CABINET
(E)	EXISTING
FU	FUSE
(G)	GROUND, GUARD
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
MPOE	MAIN POINT OF ENTRY
MSTC	MAIN SIGNAL TELEPHONE CABINET
MTB	MAIN TELEPHONE BOARD
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT
NTS	NOT TO SCALE
O.C.	ON CENTER
OFCI	OWNER FURNISHED CONTARACTOR INSTALLED
PA	PUBLIC ADDRESS
PH, ø	PHASE
PNL	PANEL
(R)	RELOCATED
RECEPT.	RECEPTACLE
SAD	SEE ARCHITECTURAL DRAWINGS
STC	SATELLITE TERMINAL CABINET
TRANSF.	TRANSFORMER
TB	TELEPHONE BOARD
TC	TERMINAL CAN
TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

LEGEND

- HOMERUN TO PANEL, HASHMARKS INDICATE NUMBER OF #12 AWG WIRES IF MORE THAN (3); (↑) INDICATES GROUND.
- CONDUIT AND CONDUCTORS CONCEALS IN WALL OR CEILING
- CONDUIT AND WIRES CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION
- CONDUIT RISER
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 277/480V
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 120/208V
- RECESSED MOUNTED ELECTRICAL PANELBOARD, 120/208V
- HASHMARK INDICATES EXISTING ELECTRICAL ITEM TO BE DISCONNECTED AND REMOVED INCLUDING WIRES AND CONDUIT UP TO THE NEXT JUNCTION BOX WHICH IS TO REMAIN.
- 1'x4' LIGHT FIXTURE WITH JUNCTION BOX
- 2'x4' LIGHT FIXTURE WITH JUNCTION BOX
- DUPLEX RECEPTACLE NEMA 5-20R, 20 AMP, 120V, +18" AFF UON
- DUPLEX RECEPTACLE MOUNTED ON EQUIPMENT, POWER FROM STUB
- FOURPLEX RECEPTACLE NEMA 5-20R, 20 AMP, 120V, +18" AFF UON
- SPECIAL RECEPTACLE NEMA 5-15R, 20 AMP, 120V, +18" AFF UON
- CEILING MOUNTED DUPPLEX RECEPTACLE, NEMA 5-20R, 20 AMP, 120V
- TYPE "A" FLUSH MOUNTED STANDARD HEIGHT – (4) BLUE CAT6 CABLES
- $T HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510
- 2P $T HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510, 2P, 208V
- 3P $T HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510, 3P, 208V
- PULLBOX, SIZE AS SHOWN ON THE DRAWING
- JUNCTION BOX OR PULL BOX, SIZE PER CODE
- $ LIGHT SWITCH
- (1) SHEET NOTE REFERENCE, SEE NOTE 1
- (1/E3.0) DETAIL TAG. REFER TO DETAIL 1 ON SHEET NUMBER E3.0
- BM BOUNDARY MICROPHONE
- DM DIGITAL MIXER
- ER EQUIPMENT RACK
- FM FLOOR MONITOR
- HCM HANGING CONDENSER MICROPHONE
- SC SUSPENDED SPEAKER CABINET
- SW SUBWOOFER
- VP VIDEO PROJECTOR
- ELLIPSOIDAL SPOTLIGHT
- LED PAR LIGHT

DRAWING INDEX

LIST OF APPLICABLE CODES

1. 2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2. 2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)
3. 2013 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2013 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2013 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
8. 2013 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
9. 2013 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)
10. NFPA 13, 2013 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
11. NFPA 14, 2013 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
12. NFPA 24, 2013 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
13. NFPA 72, 2013 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

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PROJECT NO. 175-17-03

REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

Key Plan

Project Title

SANTA TERESA HIGH SCHOOL

THEATER BUILDING 600 UPGRADES

6150 SNELL AVENUE
SAN JOSE, CA 95123

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	50% Construction Documents	11.07.16

Drawing Title

GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING INDEX

Regulatory Agency Approval

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DSA File Number: N/A
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ELECTRICAL SPECIFICATION

Section 16000

PART 1 GENERAL

1.01 SCOPE

A. The scope of work shall include all labor, materials, equipment and services necessary for the complete installation of all electrical work as herein specified and as shown on the Drawings, including, but not limited to the following:

1. Power circuits to all equipment and devices.
2. Wiring devices, necessary conduit, wiring and interconnections
3. All necessary cutting, patching, trenching and backfilling.
4. Painting, labeling and equipment identification as specified.
5. Test the complete work. Correct any deficiencies to the satisfaction of the Owner or his designated representative.

1.02 PRODUCT HANDLING

A. Contractor shall be responsible for delivery, storage, protection and placing of all equipment and materials.

B. Protection: Contractor shall protect from damage during construction, work and materials of other trades as well as electrical work and material. Electrical equipment stored and installed on job site shall be protected from dust, water, or any other damage.

1.03 RULES AND REGULATIONS

A. All work and materials shall be in full accordance with regulations of the California Administrative Code, Title 24, State Building Standards, National Electrical Code, Local City and County Code, applicable regulations of local utility companies, and any other applicable laws or regulations.
B. Nothing in these specifications is to be construed to permit work not conforming to the above codes.
C. Drawings and/or specifications shall take precedence when work and material called for exceed code requirements.

1.04 DRAWINGS AND SPECIFICATIONS

A. Any error or omissions of detail in either Drawings or Electrical Specifications shall not relieve Contractor from correctly installing all materials necessary for complete and operating electrical systems.
B. Locate and install all equipment so that it will be readily accessible for operation and maintenance.

1.05 MATERIAL AND EQUIPMENT

A. Unless otherwise noted, all material and equipment shall be new, of the type, capacity and quality specified and free from defects. Material shall bear the label of, or be listed by the Underwriter's Laboratories unless of a type for which label or listing service is not provided.
B. Materials shall be of the same brand or manufacturer throughout for each class of material or equipment wherever possible.

1.06 SUBMITTALS

A. Forward all submittals in related groups. Individual or incomplete submittals are not acceptable. Submit six copies of shop drawings for the following items:
1. Conduits and wires
2. Wiring devices.

1.07 SITE EXAMINATION

A. Examine the site and premises prior to bidding to determine the conditions under which the work is to be performed. No allowances will be made for extra expenses incurred due to failure to examine the premises or to discover site conditions which affect the work.

1.08 WORKMANSHIP

A. Good workmanship shall be evidenced in the installation of all electrical materials and equipment. Equipment shall be level, plumb and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanent. The requirements of the codes are minimum standards.
B. Work covered or concealed before being inspected and approved shall be opened and uncovered upon request without any cost to the Owner and/or the Architect.

1.09 MANUFACTURER'S DIRECTIONS

A. Follow manufacturer's directions where these directions cover points not included on the Drawings or in the Specifications.

1.10 DEMOLITION

A. Provide as required to accommodate new work called for and as noted. Work shall be done carefully to avoid damage to surfaces not being replaced.

1.11 SERVICE INTERRUPTIONS

A. The facility shall remain in operation during the period of construction. Interruption of power service, if required, shall be done on weekends or nightshift hours with no added expense to the Owner. Any interruptions must be scheduled in writing with the Owner, forty-eight (48) hours in advance and must meet with their approval.

1.12 AS- BUILT DRAWINGS

A. The Contractor shall furnish one set of clean "AS-BUILT" marked blue line prints to the Owner at completion of the project showing all work including the circuiting.

1.13 GUARANTEE

A. The Contractor shall guarantee that all work executed under this Section will be free from defects of materials and workmanship for a period of one year from the date of final acceptance of this work and further guarantee that he will, at his own expense, repair and replace all such defective work, and all other work damaged thereby, which becomes defective during the term of the guarantee.

PART 2 PRODUCTS

2.01 MATERIALS

A. Unless otherwise noted, all material and equipment shall be new, of the type, capacity and quality specified and free from defects. Material shall bear the label of, or be listed by, the Underwriter's Laboratories unless of a type for which label of listing service is not provided.
B. Materials shall be of the same brand or manufacturer throughout for each class of material or equipment wherever possible.
C. Equipment shall be the product of a manufacturer who has, for a period of not less than five (5) years, been in successful manufacture of the equipment and who has a nationally distributed catalog covering ratings and specifications of said equipment.

2.02 RACEWAY

A. All conduits installed indoors shall be electrical metallic tubing (EMT) with compression type fittings. Conduits exposed outdoors shall be rigid steel. Raceway exposed or other finished areas shall be Wiremold or equal. Underground conduit shall be schedule 40 PVC.

B. Conduits shall be 3/4 inch minimum in size.

2.03 CONDUCTORS

A. All conductors shall be in conduit. Minimum size shall be #12 AWG.
B. Color code all branch circuits and feeders as follows:

120/208 Volts		277/480 Volts	
Phase A	Black	Phase A	Brown
Phase B	Red	Phase B	Orange
Phase C	Blue	Phase C	Yellow
Neutral	White	Neutral	Gray
Ground	Green	Ground	Green

C. Conductors in sizes up through #10 AWG shall have solid color finish as listed above.
D. Color coding shall be continuous and consistent throughout the work.
E. All insulation shall be 600V minimum type THHN/THWN.
F. Conductors shall be copper, 98% conductivity.
G. All conductors shall be identified and tagged at all electrical panels, pullboxes, devices and termination points with Partex PA sleeve type markers.
H. Splices: For conductors #10 and smaller, pre-insulated type connectors, 3M Scotchloks, T & B Piggys or equal, nylon self-insulated type. Splices #8 and larger use compression type connector, insulated with Scotchtape No. 88. Wire splicing devices shall be sized according to manufacturer's recommendations.
I. Cable Ties: For wire training and clamping in cabinets and enclosures use nylon cable ties.
J. Swab conduits before installing cables, and exercise care in pulling to avoid damage or disarrangement of conductors, use approved grips.

2.04 BOXES

A. Shall be of size and shape best suited for particular application, properly code sized for number of wires and conduits passing through or terminating therein. Support boxes directly to structural members, framing or blocking by means of screws, anchors or bolts.

2.05 MOTOR DISCONNECT SWITCH

A. Motor disconnect switch shall be heavy duty type HD, fused, fully enclosed, Nema 1 for indoor installation and Nema 3R for outdoor installation . The fused disconnect switch shall be provided with resection clips and fuses rated as required by the manufacturer of the equipment that is to disconnect.
B. Switch shall be provided with a cover interlock to prevent opening of the switch door when switch is in the "on" position, means of defeating the interlock mechanism shall be provided to allow authorized personnel to access the switch interior with the switch in the on position.

2.06 SUPPORT SYSTEMS

A. As manufactured by Unistrut, Kindorf or Power strut.
B. Clamp, one hole malleable iron.

2.07 GROUNDING SYSTEMS

A. Acceptable device manufacturer's: Burndy, O.Z., Appleton and "Erico" Caldwell.
B. Install ground wire in all feeder and branch circuit conduits.

PART 3 EXECUTION

3.01 COORDINATION

A. Coordinate work with that of all contractors on the job for an efficient and effective completion of the project. Refer to the contract documents of other trades for construction details.

3.02 WORKING SPACE

A. Adequate working space shall be provided around electrical equipment in strict compliance with the N.E.C. and Electrical Safety Orders.

3.03 GROUNDING

A. Permanently and effectively ground all services, raceway systems, supports, and utilization apparatus. Obtain good contact between conduit, tubing and fittings, cabinets, outlet boxes, and equipment.
B. Provide grounding conductor inside all conduits.

3.04 RACEWAY INSTALLATION

A. Exposed raceways shall run parallel or at right angles to wall or ceiling.
B. Paint all exposed conduits, Wiremold and boxes to match existing architectural finishes.

3.05 MOTOR DISCONNECT SWITCH INSTALLATION

A. Motor disconnect switch shall be installed near the motor that is disconnect.
B. Disconnect switch shall be mounted on building wall or on steel channel structures as required for each particular equipment.
C. Provide nameplate indicating panel and circuit designation. Nameplate shall be phenolic, black face with white core.
D. Fuses for motors shall be dual element time delay type.

3.06 WIRING, EMERGENCY SYSTEM

A. Wiring from an emergency source or emergency source distribution overcurrent protection to emergency loads shall be kept entirely independent of all other wiring and equipment.
B. Identification of all boxes and enclosures for emergency circuits shall be permanently marked so they will be readily identified as a component of emergency circuit or system.

3.07 TESTS

A. Test all wiring and connections for continuity and grounds before the equipment are connected and where such tests indicate faulty insulation or other defects, they shall be located, repaired and tested again. Electrical loads shall be balanced at the panelboard.

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Key Plan

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THEATER BUILDING 600 UPGRADES

6150 SNELL AVENUE
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EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	50% Construction Documents	11.07.16

Drawing Title

ELECTRICAL SPECIFICATION

Regulatory Agency Approval

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DSA File Number: N/A
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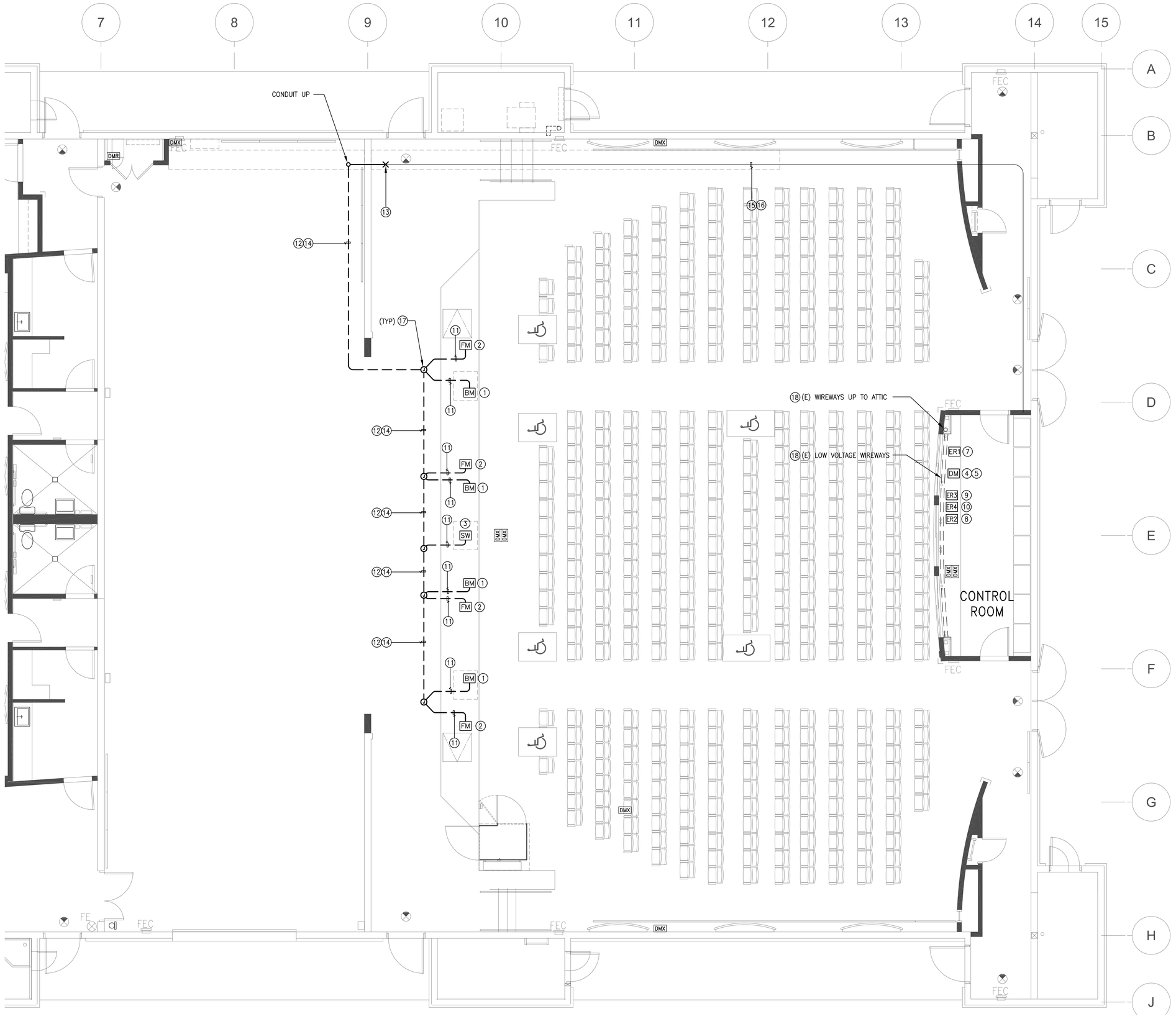

SHEET NOTES:

1. PROVIDE BOUNDARY MICROPHONE WITH CABLE AT LIP OF STAGE.
2. PROVIDE FLOOR MONITOR WITH CABLE UNDERNEATH STAGE FLOOR, FACING THEATER HOUSE.
3. PROVIDE SUBWOOFER WITH CABLE UNDERNEATH STAGE FLOOR, FACING THEATER HOUSE.
4. REMOVE, SALVAGE AND RETURN (E) ANALOG MIXER TO SITE/OWNER. PROVIDE AND INSTALL (N) DIGITAL MIXER.
5. INTEGRATE (N) DIGITAL MIXER TO THE (E) SOUND SYSTEM . PROVIDE ALL REQUIRED WIRING CONNECTION AS WELL AS COMPLETE AND THOROUGH TEST TO PUT IT IN SERVICE.
6. SEE COMPLETE A/V EQUIPMENT AND LIGHT FIXTURES LIST FOR CFCI/OFCI TO BE PROVIDED, A/V SYSTEM COMMISSIONING TRAINING REQUIREMENTS AND OTHER INFORMATION ON ARCH. DWG. A3.10.
7. REFER TO ARCH. DWG. 2/A3.10 FOR (N) WORK REQUIRED ON EQUIPMENT RACK #1. PROVIDE ALL NECESSARY WIRING CONNECTION TO ALL (N) DEVICES ADDED IN THIS RACK AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH THE ARCHITECT FOR ADDITIONAL WORK REQUIRED.
8. REFER TO ARCH. DWG. 3/A3.10 FOR (N) WORK REQUIRED ON EQUIPMENT RACK #2. CONNECT (N) LOUDSPEAKER MANAGEMENT SYSTEM TO THE (E) SOUND SYSTEM AND PERFORM A COMPLETE TEST TO DETERMINE THE REQUIRED FUNCTIONALITY.
9. REFER TO ARCH. DWG. 4/A3.10 FOR (N) WORK REQUIRED ON EQUIPMENT RACK #3. PROVIDE INTERCONNECTION BETWEEN (N) POWER CONDITIONER (N) STEREO MIXER, (N) BLU-RAY DVD PLAYER AND INTEGRATE IN THE (E) SYSTEM. PROVIDE A COMPLETE AND THOROUGH TEST FOR A COMPLETE AND OPERATIONAL SYSTEM.
10. REFER TO ARCH. DWG. 5/A3.10 FOR (N) WORK REQUIRED ON EQUIPMENT RACK #4. INTEGRATE (N) MATRIX SWITCHER TO THE (E) SOUND SYSTEM. PROVIDE ALL REQUIRED WIRING CONNECTION AS WELL AS COMPLETE AND THOROUGH TEST TO PUT IT IN SERVICE.
11. 3/4"C WITH CABLES
12. 2"C WITH CABLES
13. CONNECT (N) TO (E) CONDUIT
14. RUN CONDUIT UNDERNEATH THE STAGE AND PROVIDE CONDUIT SUPPORT AT 10 FT. INTERVAL MAXIMUM.
15. UTILIZE (E) 2"C AND PULL (N) CABLES.
16. HOMERUN CABLES UP TO HEAD-END EQUIPMENT IN THE CONTROL ROOM.
17. PROVIDE A 12"x6"x4" NEMA 1 PULLBOX AND SECURE UNDERNEATH THE STAGE.
18. UTILIZE (E) WIREWAY TO INSTALL LOW VOLTAGE CABLES. HOMERUN CABLES TO EACH CORRESPONDING HEAD-END EQUIPMENT.

1 E1.1 ELECTRICAL PLAN ⑥
SCALE: 1/4" = 1'-0"

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Key Plan

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Drawing Title
ELECTRICAL PLAN
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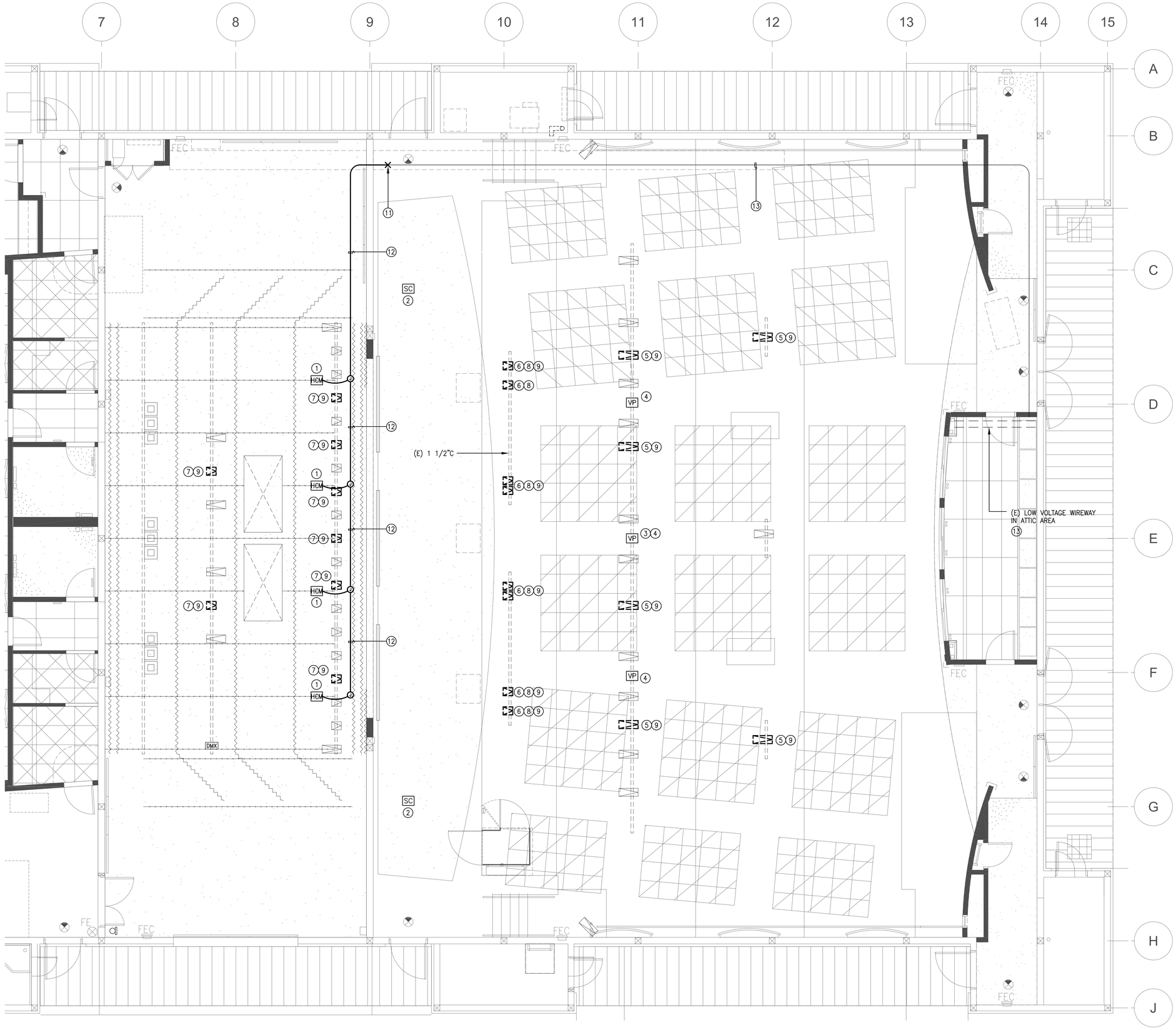

1 E1.1 ELECTRICAL CEILING PLAN ⑩

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

SHEET NOTES:

1. PROVIDE HANGING CONDENSER MICROPHONE AND SECURE ON (E) UNISTRUT SUPPORT. HOMERUN MICROPHONE CABLE U PTO EQUIPMENT RACK #1 IN CONTROL ROOM.
2. REPLACE (E) SUSPENDED LOUDSPEAKER CABINET WITH A (N) ONE. (E) CABLES SHALL REMAIN. EXTEND (E) CABLES TO THIS (N) SPEAKER CABINET TO PUT IT IN SERVICE. (N) SPEAKER CABINET SHALL BE SECURED TO THE (E) SUPPORT.
3. REPLACE (E) VIDEO PROJECTOR WITH A (N) ONE. (E) CABLES SHALL REMAIN. EXTEND (E) CABLES TO THE (N) VIDEO PROJECTOR TO PUT IN SERVICE. (N) VIDEO PROJECTOR SHALL BE SECURED TO THE (E) SUPPORT.
4. INSTALL VIDEO PROJECTOR ON (E) PIPE GRID ON CEILING AND CONNECT TO (E) CIRCUIT THAT IS USED TO FED (E) VIDEO PROJECTOR IN THIS THE SAME LOCATION.
5. INSTALL ELLIPSOIDAL SPOTLIGHTS (TOTAL OF 6) AND SECURED ON (E) SUPPORT. SEE DWG. 1/E3.1 FOR ADDITIONAL WORK REQUIRED.
6. (E) PAR LIGHTS IN THIS LOCATION SHALL BE RELOCATED TO THE (N) LOCATION AS MENTIONED ON NOTE ⑦ OF THIS SHEET.
7. REINSTALL (E) PAR LIGHTS AS SHOWN. SEE DWG. 1/E3.1 FOR ADDITIONAL WORK REQUIRED.
8. INSTALL LED PAR LIGHTS (TOTAL OF 8) AND SECURE ON (E) SUPPORT. REFER TO DWG. 1/E3.1 FOR ADDITIONAL WORK REQUIRED.
9. FIELD VERIFY AND UTILIZE (E) CONTROL WIRES COILED UP ON THE CEILING, CONNECT ALL RELOCATED LIGHT FIXTURES TO (E) DMX (SEE (E) DMX LOCATIONS ON SHEET E1.1). PROVIDE NEW DMX CABLE (BELDEN 9729) AS REQUIRED. ADD ADDITIONAL CONDUIT BETWEEN LIGHT FIXTURES AND DMX IF NECESSARY. COORDINATE WITH THE OWNER FOR EXACT CONTROL VARIATION OF EACH LIGHT. PROVIDE ALL NECESSARY DMX CONNECTORS, CABLES AND OTHER NECESSARY MATERIAL FOR A COMPLETE INSTALLATION.
10. SEE COMPLETE A/V EQUIPMENT AND LIGHT FIXTURES LIST FOR CFCI/OFCI TO BE PROVIDED, A/V SYSTEM COMMISSIONING TRAINING REQUIREMENTS AND OTHER INFORMATION ON ARCH. DWG. A3.10.
11. CONNECT (N) 1 1/2"C AND (E) 1 1/2"C AND INSTALL MICROPHONE CABLES.
12. 1 1/2"C WITH MICROPHONE CABLES.
13. UTILIZE (E) WIREWAY AND INSTALL MICROPHONE CABLES. HOMERUN CABLES DOWN TO CONTROL ROOM HEAD-END EQUIPMENT.

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PROJECT NO. 175-17-03

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/17
ELECT.
STATE OF CALIFORNIA

Key Plan

Project Title

SANTA TERESA HIGH SCHOOL

THEATER BUILDING 600 UPGRADES

6150 SNELL AVENUE
SAN JOSE, CA 95123

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	50% Construction Documents	11.07.16

Drawing Title

ELECTRICAL CEILING PLAN
-
-

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
N/A
AC.____ FLS.____ SS.____
DATE____

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-17
STATE OF CALIFORNIA

DSA File Number: N/A
DSA Application Number: N/A
Project No.: 135125
Date: 11.07.16

Drawing No: E2.1

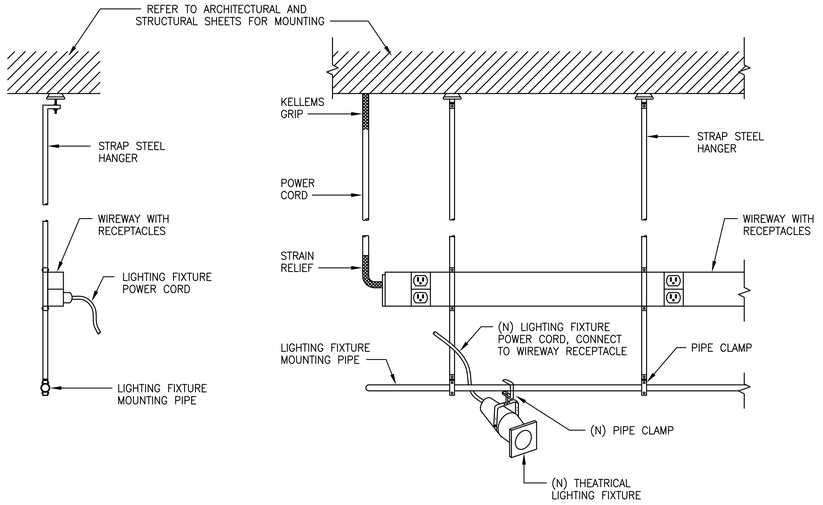
FILE: M:\175-17-03\STHS Theater Building 600 Upgrades\03E21.dwg Feb 10, 2017 2:52 pm Scale: 1=1 by: CHRIS
XREFS:

GENERAL NOTE:

1. ALL ELECTRICAL EQUIPMENTS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

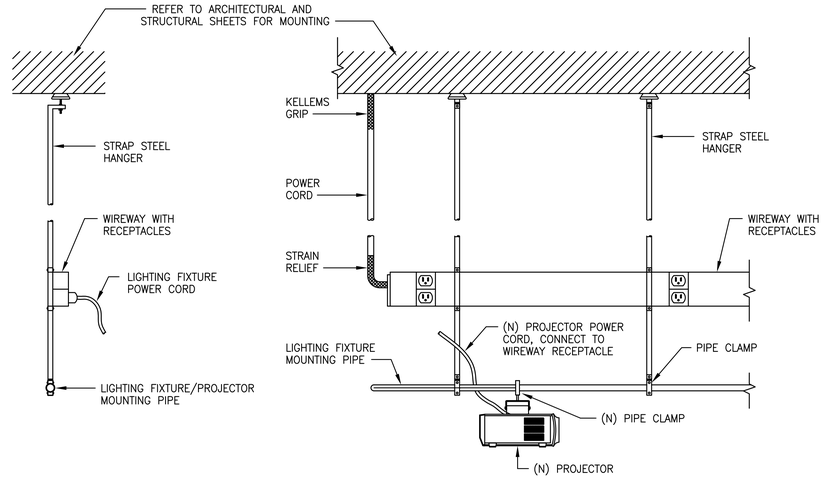
SHEET NOTES:

(1) SEE NOTE (9) ON SHEET E2.1 FOR WORK REQUIRED.



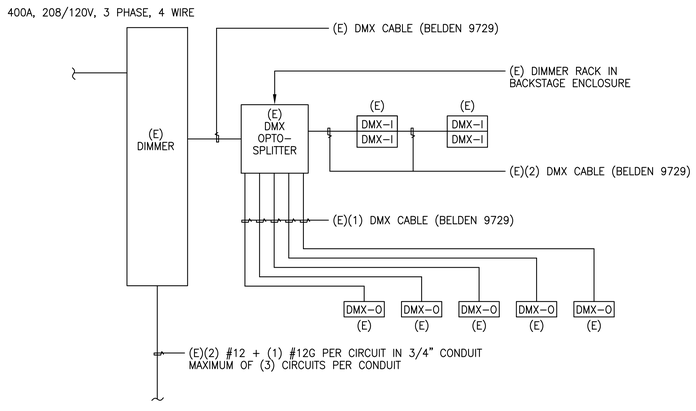
1 — STRAND THEATRE LIGHTING MOUNTING DETAIL

NOT TO SCALE



2 — PROJECTOR MOUNTING DETAIL

NOT TO SCALE



3 — TYPICAL THEATRICAL RISER DIAGRAM (1)

NOT TO SCALE

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ELECTRICAL DETAILS
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