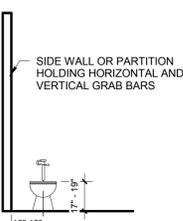




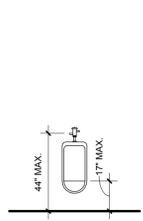
# TYPICAL ADULT MOUNTING HEIGHTS

## WATER CLOSET



RE: ENLARGED PLAN FOR HORIZONTAL PLACEMENT.

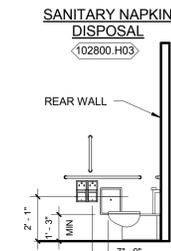
## URINAL



RE: ENLARGED PLAN FOR HORIZONTAL PLACEMENT.

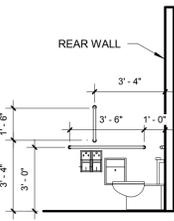
## TOILET PAPER DISPENSER

102800.A03



SURFACE MOUNT TOILET TISSUE DISPENSER 7" MIN. TO 9" MAX IN FRONT OF WC MEASURED TO THE CENTER LINE OF THE DISPENSER.

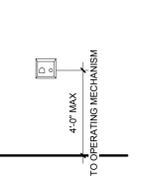
## 42" HORIZONTAL GRAB BAR 18" VERTICAL GRAB BAR



SIDE WALL: 42" MIN. LENGTH, MOUNT 12" MAX. FROM REAR WALL.  
18" MIN. VERTICAL BAR: MOUNT 40" FROM REAR WALL AND 40" (FROM BOTTOM OF BAR) A.F.F.

## ELECTRIC HAND DRYER

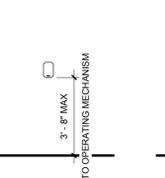
102800.P01



MOUNT 48" TO OPERATING MECHANISM FOR FRONT APPROACH.

## SOAP DISPENSER

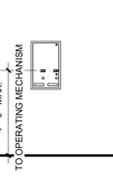
102800.F01



MOUNT 44" MAX TO OPERATING MECHANISM FOR FRONT APPROACH.

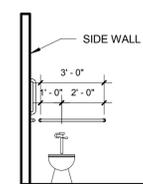
## SANITARY NAPKIN DISPENSER

102800.H02



MOUNT 48" TO OPERATING MECHANISM FOR FRONT APPROACH.

## 36" HORIZ. GRAB BAR



REAR WALL: 36" MIN. LENGTH, EXTEND FROM CENTER LINE OF WC 12" MIN. ON SIDE CLOSEST TO WALL & 24" MIN. ON TRANSFER SIDE.

# RESTROOM FINISH LEGEND

## TILE

- T1 PORCELAIN FLOOR TILE  
MANU: CONCEPT SURFACES  
PROD: MAXXI  
COLOR: FIVE  
SIZE: 12" X 24"
- T2 O.A. GLAZED WALL TILE  
MANU: EMSER  
PROD: VOGUE  
COLOR: WHITE, MATTE  
SIZE: 4" X 16"

- T3 ACCENT GLAZED WALL TILE  
MANU: EMSER  
PROD: VOGUE  
COLOR: GRAY, MATTE  
SIZE: 4" X 16"
- T4 GLASS MOSAIC TILE  
MANU: CAPCO  
PROD: BLISS LINEAR BLEND WATERFALL  
COLOR: WATERFALL  
SIZE: 12" X 12" SHEETS

## PAINT

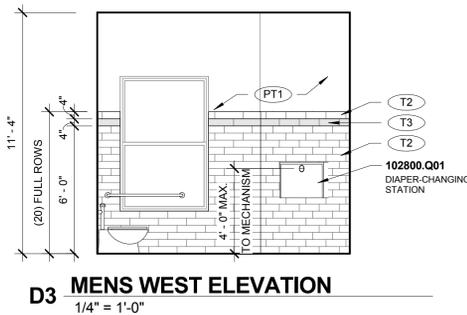
- PT1 WALL COLOR  
MANU: SHERWIN WILLIAMS  
COLOR: 7016 MINDFUL GRAY  
SHEEN: EGGSHELL
- PT2 O.A. CEILING COLOR  
MANU: TO MATCH (E)  
COLOR: TO MATCH (E)  
SHEEN: FLAT

## PLASTIC PLAMINATE

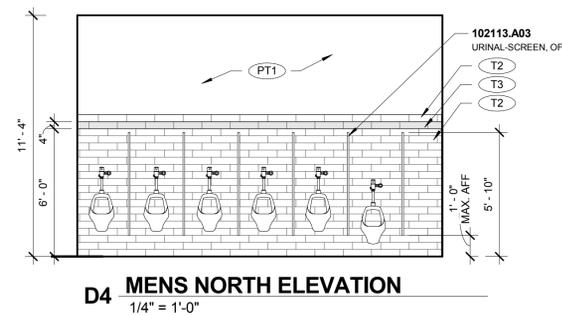
- PL1 APRON @ SINK  
MANU: FORMICA  
PATTERN: 8829-58 GRAPHITE TWILL  
FINISH: MATTE

## SOLID SURFACE

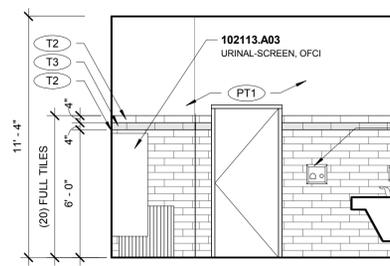
- SS1 QUARTZ COUNTERTOP  
MANU: CAMBRIA  
PRODUCT: DURHAM  
THICK: 3CM



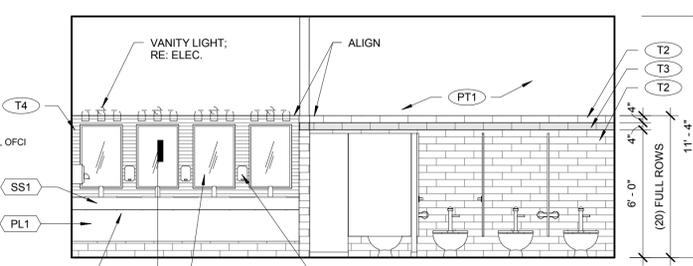
D3 MENS WEST ELEVATION  
1/4" = 1'-0"



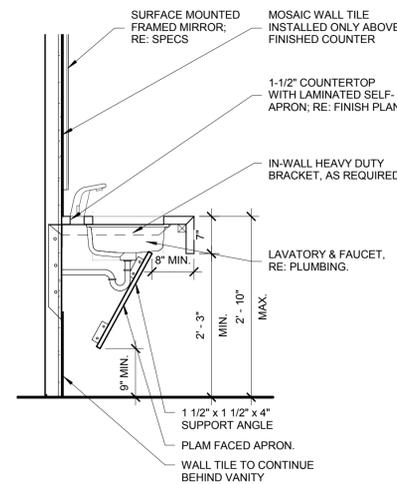
D4 MENS NORTH ELEVATION  
1/4" = 1'-0"



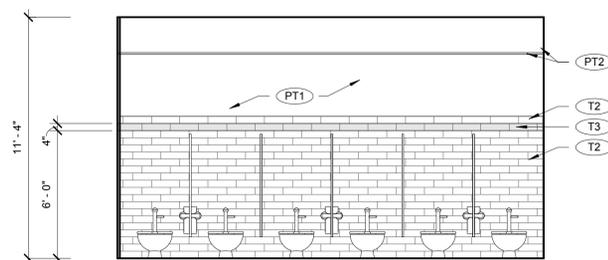
C3 MENS EAST ELEVATIONS  
1/4" = 1'-0"



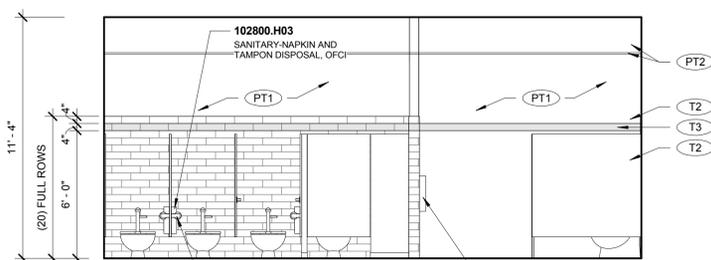
C4 MENS SOUTH ELEVATION  
1/4" = 1'-0"



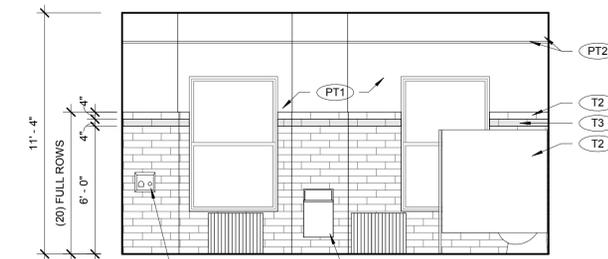
C6 SECTION @ VANITY  
3/4" = 1'-0"



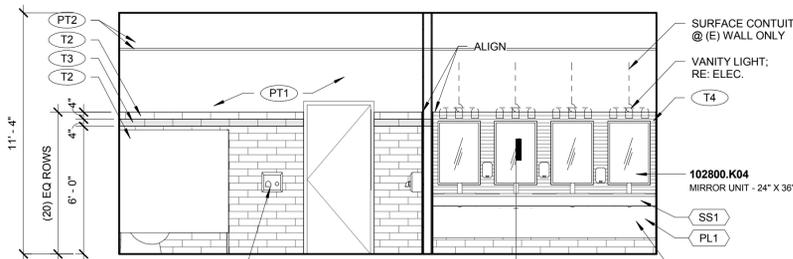
B1 WOMENS EAST ELEVATION  
1/4" = 1'-0"



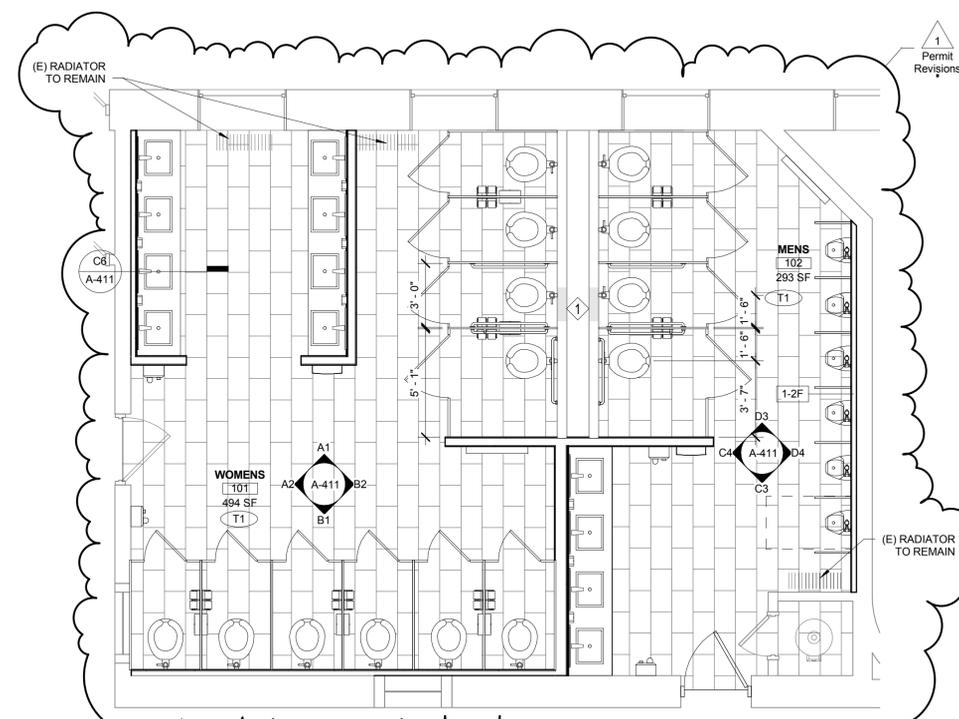
B2 WOMENS NORTH ELEVATION  
1/4" = 1'-0"



A1 WOMENS WEST ELEVATION  
1/4" = 1'-0"



A2 WOMENS SOUTH ELEVATION  
1/4" = 1'-0"



A4 RESTROOM FINISH PLAN  
1/4" = 1'-0"

# RESTROOM GENERAL NOTES

- ALL 'HOLD' AND 'MIN' DIMENSIONS TAKE PRECEDENCE OVER OTHER DIMENSIONS. IF THERE IS A DISCREPANCY, NOTIFY THE ARCHITECT.
- INTERIOR WALL PARTITION DIMENSIONS SHOWN ARE TO FACE OF FINISHED MATERIAL U.N.O.
- ALL FLOOR MATERIALS TO BE BUTT JOINTED AT TRANSITIONS ON CENTER OF DOOR WHERE APPLICABLE.
- PROVIDE SCHLUTER SYSTEMS EDGE PROTECTION AND TRANSITION PROFILES AT ALL OUTSIDE CORNERS, AND WHERE MATERIAL CHANGES AND/OR STOPS.
- PAINT ALL EXPOSED PIPES, AIR GRILLES, ETC. TO MATCH ADJACENT WALL COLOR.
- ALL WALL MOUNTED CASEWORK, MILLWORK, HARDWARE, EQUIPMENT, ETC. SHALL BE ANCHORED TO METAL STRAPPING OR 3/4" FRT PLYWOOD BACKING BETWEEN STUDS, U.N.O. COORDINATE ACCORDINGLY.
- ALL TILE TYPES AND PAINT COLORS TO WRAP AROUND OUTSIDE CORNERS AND TERMINATE AT INSIDE CORNERS, TYP.

SLATERPAULL  
hord | coplan | macht

1331 Nineteenth Street P 303.607.0977  
Denver, CO. 80202 www.slaterpaull.com

CONSULTANT:

PROJECT:

CS AUDITORIUM  
RESTROOM  
RENOVATION

221 E Kiowa St Colorado Springs, CO 80903

OWNER:

COLORADO SPRINGS  
CITY AUDITORIUM

221 E Kiowa St  
Colorado Springs, CO 80903

ISSUE:

- 10/16/15 ISSUED FOR BIDDING AND CONSTRUCTION
- 11/16/15 PERMIT REVISIONS

DRAWING INFORMATION:

- PROJECT NO: 11503.000
- DRAWN BY: K Myron-Karels
- CHECKED BY: J Reske
- APPROVED BY: G Petri

SHEET TITLE:

RESTROOM FINISH  
PLAN

A-411

SHEET OF

CONSULTANT:



PROJECT:

CS AUDITORIUM  
 RESTROOM  
 RENOVATION

221 E Kiowa St Colorado Springs, CO 80903

OWNER:

COLORADO SPRINGS  
 CITY AUDITORIUM

221 E Kiowa St  
 Colorado Springs, CO 80903

ISSUE:

10/16/15 ISSUED FOR BIDDING AND  
 CONSTRUCTION

11/10/15 BLDG. DEPT. COMMENTS

DRAWING INFORMATION:

PROJECT NO: 15380

DRAWN BY: LEE

PROJECT ENGINEER: AW

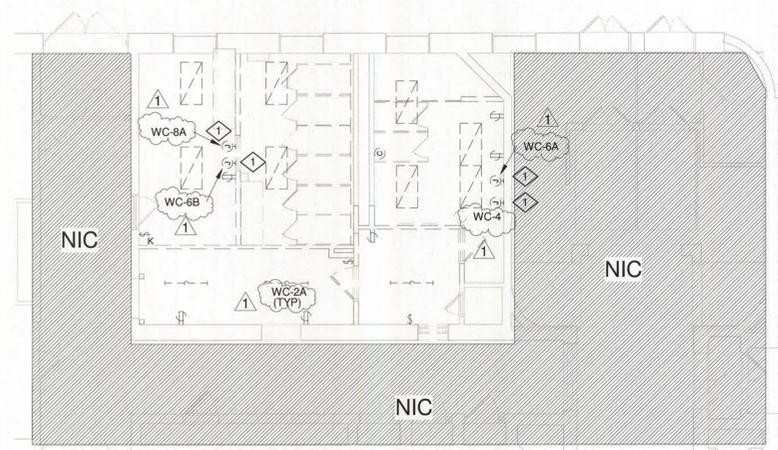
APPROVED BY: SLS

SHEET TITLE:

ELECTRICAL PLANS

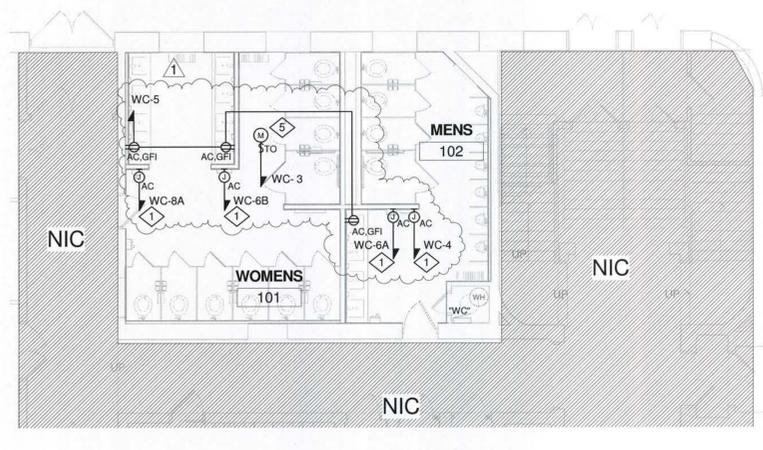
E100

SHEET 2 OF 2



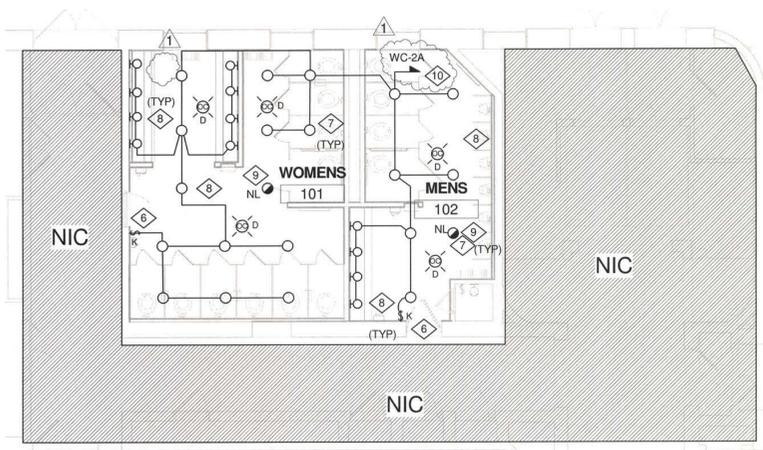
Level 1 Demolition  
 Lighting Plan  
 1/8" = 1'-0"

GENERAL NOTES:  
 A. REMOVED ITEMS SHOWN AS DASHED AND LIGHT



Level 1 Power Plan  
 1/8" = 1'-0"

GENERAL NOTES:  
 A. NEW AND RELOCATED ITEMS SHOWN AS BOLD  
 EXISTING ITEMS SHOWN AS LIGHT



Level 1 Lighting Plan  
 1/8" = 1'-0"

GENERAL NOTES:  
 A. NEW AND RELOCATED ITEMS SHOWN AS BOLD  
 EXISTING ITEMS SHOWN AS LIGHT  
 B. TOTAL LIGHTING LOAD REDUCED.

### 3PH FAULT CALCULATION

POINT #1, AT THE UTILITY TRANSFORMER:

$I_{sc} = 100,000 \text{ A}$   
 (WORST CASE)

POINT #4, AT PANEL LC:

$I = 1.73 \times \frac{\text{Length} \times I_{sc}(\text{source})}{L-L \text{ Volts} \times \text{Wire Factor}}$   
 $I = 1.73 \times \frac{20 \times 100,000}{208 \times 8924} = 1.86$

$M = 1 / (1 + I) = 1 / (1 + 1.86) = 0.35$

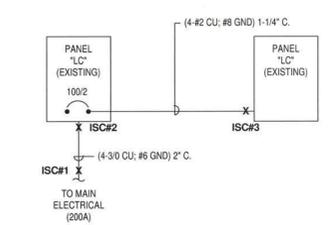
$I_{sc} = M \times I_{sc}(\text{source}) = 0.35 \times 100,000 \text{ A} = 34,916 \text{ A}$

POINT #5, AT PANEL WC:

$I = 1.73 \times \frac{\text{Length} \times I_{sc}(\text{source})}{L-L \text{ Volts} \times \text{Wire Factor}}$   
 $I = 1.73 \times \frac{150 \times 34,916}{208 \times 5906} = 7.38$

$M = 1 / (1 + I) = 1 / (1 + 7.38) = 0.12$

$I_{sc} = M \times I_{sc}(\text{source}) = 0.12 \times 34,916 \text{ A} = 4,169 \text{ A}$



PARTIAL ONE-LINE DIAGRAM  
 (NO NEW WORK) 1/8" = 1'-0"

DETAIL NOTES

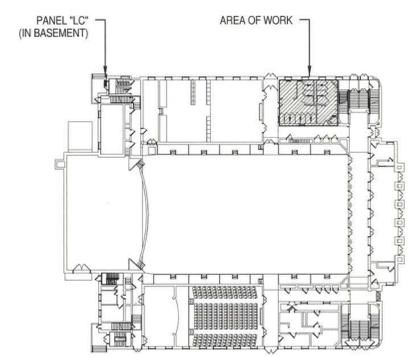
- PRESERVE HAND DRYER CIRCUIT FOR NEW LOCATION PER POWER PLAN. VERIFY FINAL LOCATION WITH ARCHITECT.
- NOT USED.
- E.C. TO REMOVE ALL ABANDONED CONDUIT/CABLING/WIRING FROM SPACE INCLUDING ABOVE THE CEILING BACK TO SOURCE. ANY CIRCUITS MADE SPARE TO BE TURNED OFF AND LABELED AS SUCH WITH VEV TYPED PANEL SCHEDULES.
- RETURN LIGHTING NOT RE-USED TO BUILDING MANAGEMENT.
- EXHAUST FAN 7A/120V. CONNECT FAN THROUGH THERMAL SWITCH USING 2-#12 CU AND #12 GND IN 3/4". COORDINATE CONTROL WITH M.C.
- RE-USE EXISTING OPENING FOR NEW KEYED SWITCH.
- 6" DOWNLIGHT FOR PLASTER CEILING. 17W/120V. HALO #PD6-15-ED010-PDM6A-##-61V-C. MATCH VANITY COLOR TEMPERATURE.
- LED VANITY FIXTURE, 120V/POLISHED NICKEL. FEISS #VS21903PN-LA. (3) 13W LED. COORDINATE HEIGHT WITH ARCHITECT. SURFACE MOUNT ON PLASTER PROVIDING SURFACE CONDUIT FROM NEW PENETRATION THROUGH CEILING.
- PROVIDE FIXTURE WITH 90-MIN BATTERY BACKUP AND TEST SWITCH AND CIRCUIT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROL.
- CONNECT TO LOCAL LIGHTING CIRCUIT. E.C. TO VERIFY NO MORE THAN 70% LOAD ON A SINGLE 120V LIGHTING CIRCUIT.
- EXISTING CIRCUITS BASED ON SCHEDULES. E.C. TO VERIFY AND ADJUST AS REQUIRED.

SUPPLIED FROM:

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS) / PH.	CIR	BKR	DESCRIPTION	TYPE
G	GAS WH	20	1a	860 500	2a	20	LTG	L
	SPACE	1b	0	200	2b	20	ODORIZER	G
M	EF	20	3a	850 1500	4a	20	MENS HD	G
	1P	3b	0	0	4b	1P		
R	RR RECEPTACLES	20	5a	540 1500	6a	20	MENS HD	G
	1P	5b	0	1500	6b	20	WOMENS HD	G
	SPACE	7a	0	1500	8a	20	WOMENS HD	G
	SPACE	7b	0	0	8b	20	SPACE	G
	SPARE	9a	0	1500	10a	20	HAND DRYER	G
		9b	0	0	10b	1P		
		11a	0	1500	12a	20	HAND DRYER	G
		2P	0	0	12b	1P		
				6600	5350			

LOAD TYPE	CONNECTED KVA	TOTAL	FACTOR	DEMAND KVA	TOTAL
LIGHTING	0.5	0.0	0.5	125%	0.6
RECEPTACLE (10KVA OR LESS)	0.5	0.0	0.5	100%	0.5
RECEPTACLE (OVER 10KVA)	0.0	0.0	0.0	50%	0.0
HVAC/MOTOR	0.0	0.0	0.0	100%	0.0
MOTOR(LARGEST)	0.0	0.8	0.8	125%	1.0
KITCHEN EQUIPMENT	0.0	0.0	0.0	65%	0.0
MISCELLANEOUS	5.6	4.5	10.1	100%	5.6
<b>TOTAL KVA</b>	<b>6.6</b>	<b>5.4</b>	<b>12.0</b>	<b>TOTAL KVA</b>	<b>6.7</b>
				<b>TOTAL AMPS</b>	<b>56.0</b>



KEYPLAN  
 1" = 50'-0"



### 2009 IECC

Section 1: Project Information  
 Project Type: Alteration  
 Project Title: CO Springs Auditorium  
 Construction Site: \_\_\_\_\_ Owner/Agent: \_\_\_\_\_ Designer/Contractor: Alex Wolke, Corey EE

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (F2)	C Allowed Watts / F2	D Allowed Watts (B x C)
Performing Arts Theater	870	1.6	1392
Total Allowed Watts =			1392

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Watt (C X D)
Performing Arts Theater (870 sq ft)			
Incandescent 1: Incandescent 55W:	1	1	35
LED 1: Other:	1	21	17
LED 2: Other:	3	12	36
Total Proposed Watts =			89

Section 4: Requirements Checklist

Interior Lighting PASSES

Lighting Wattage:  
 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
1392	89	Passes

Controls, Switching, and Wiring:  
 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.  
 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:  
 Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.  
 Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

4. Independent controls for each space (switch/occupancy sensor).

Exceptions:  
 Areas designated as security or emergency areas that must be continuously illuminated.

Section 5: Compliance Statement

Alex Wolke - Project Manager  
 Signature: \_\_\_\_\_ Date: 11/10/15

- Lighting in stairways or corridors that are elements of the means of egress.
  - Master switch at entry to hotel/motel guest room.
  - Individual dwelling units separately metered.
  - Medical task lighting or arthroscopy display lighting claimed to be exempt from compliance has a control device independent of the control of the nonemergency lighting.
  - Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.
- Exceptions:  
 Only one luminaire in space.  
 An occupant-sensing device controls the area.  
 The area is a corridor, store room, restroom, public lobby or sleeping unit.  
 Areas that use less than 0.6 Watts/sq.ft.
9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
- Exceptions:  
 Sleeping units, patient care areas, and spaces where automatic shutoff would endanger safety or security.
10. Photocell/astronomical time switch on exterior lights.
- Exceptions:  
 Lighting intended for 24 hour use.
11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
- Exceptions:  
 Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available ballast.

