

teamwork://bimserv/007115002 UNLV LEISURE READING ISSUED FOR PLAN REVIEW/G1.01 COVER PAGE/Tuesday, March 29, 2016/12:30 PM

# UNLV

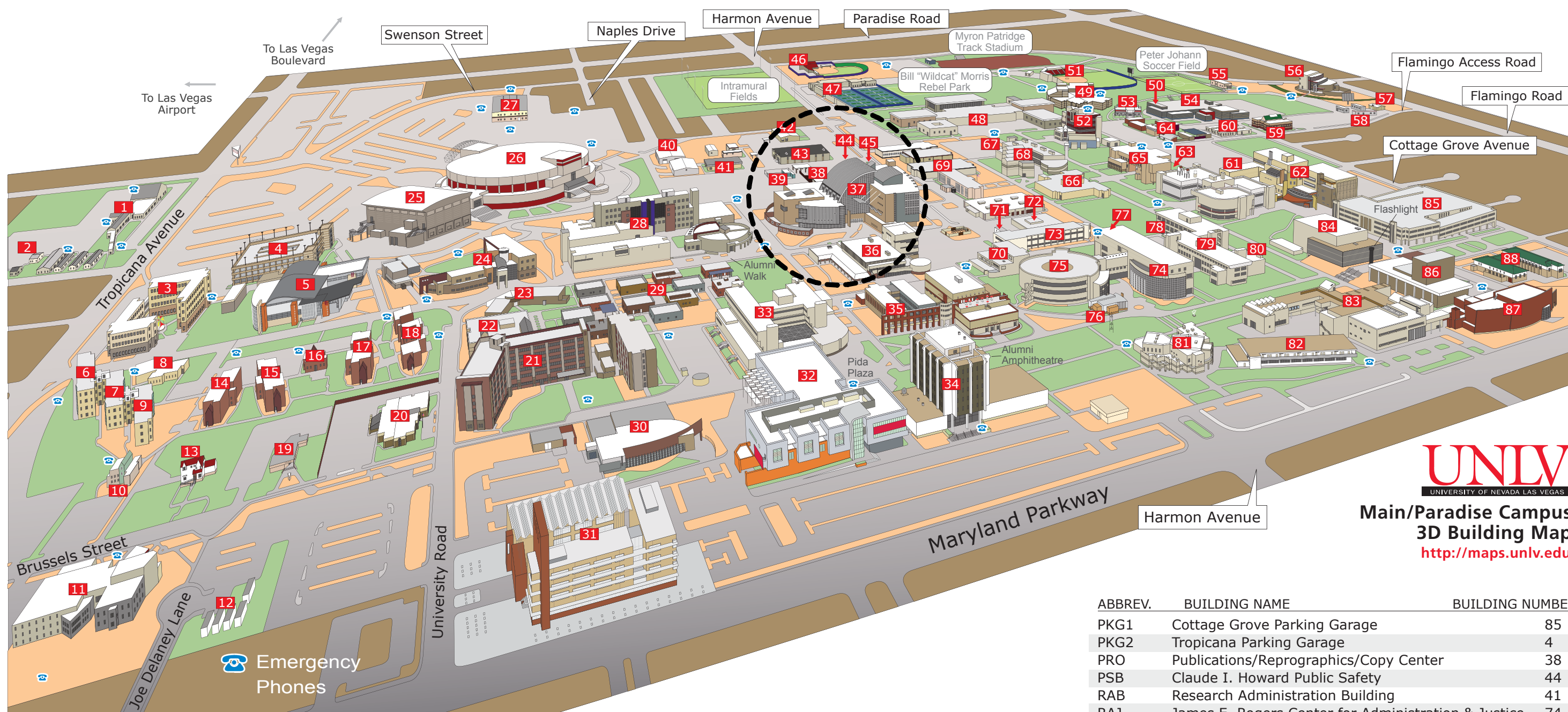
## UNIVERSITY OF NEVADA LAS VEGAS

### LIED LIBRARY - LEISURE READING

03/22/16

### ISSUED FOR PLAN REVIEW

4505 S. MARYLAND PARKWAY  
LAS VEGAS, NEVADA 89119



ABBREV.	BUILDING NAME	BUILDING NUMBER
ARC	Paul B. Sogg Architecture Building	11
ASC	Academic Success Center - Claude I. Howard Building	23
BDC	Bennett Professional Development Center	53
BEH	Frank and Estelle Beam Hall	33
BGC	John D. "Jackie" Gaughan Boys and Girls Club	59
BHS	Rod Lee Bigelow Health Sciences	52
BKS	UNLV Bookstore	30
BMC	Lee and Thomas Beam Music Center	87
BPB	Robert L. Bigelow Physics	68
BSL	William S. Boyd School of Law	75
BXG	Boxing Gymnasium	50
CBC	Carol C. Harter Classroom Building Complex	28
CDC	Central Desert Complex	29
CEB	William D. Carlson Education	79
CEB-HEA	Holbert H. Hendrix Education Auditorium	80
CET	Carlson Education Trailer	77
CHE	Chemistry	66
CNC	Catholic Newman Center	19
COX	Cox Pavilion	25
CSB	Campus Services Building	27
CWH	Claudine Williams Residence Hall	6
DAY	Dayton Complex	3
DIN	Hazel M. Wilson Dining Commons	22
EMS	Eller Media Softball Stadium	46
EPA	Environmental Protection Agency	69
FDH	Flora Dungan Humanities	34
FMA	Facilities Management Administration	42

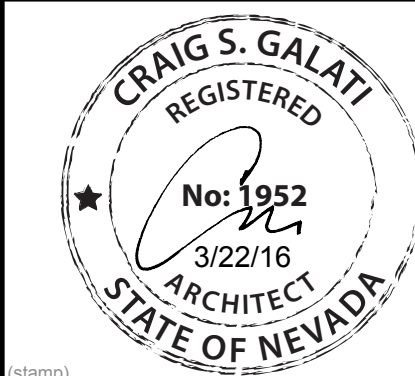
ABBREV.	BUILDING NAME	BUILDING NUMBER
FND	Foundations Building (D2)	89
FTC	Frank and Vicki Fertitta Tennis Complex	47
GHT	Greenhouse Trailer 2	63
GRA	Archie C. Grant Hall	82
GUA	Greenspun Hall	31
HCH	Artemus W. Ham Concert Hall	84
HFA	Alta Ham Fine Arts	83
HOU	Houssels House	13
HUH	Mitzi & Johnny Hughes Hall - Building A	18
HWB	Herman Westfall Building	43
IGI	Stan Fulton Building - International Gaming Institute	56
JBT	Judy Bayley Theatre	86
KRH	Kitty Rodman Residence Hall	9
LAC	Lied Athletic Complex	49
LBC	Lynn Bennett Early Childhood Education Center	20
LDS	LDS Institute of Religion Student Center	73
LFG	Lilly Fong Geoscience	37
LLB	Lied Library	14
MFH	Margie and Robert Faiman Residence Hall - Building D	48
MPE	Paul McDermott Physical Education	55
MSB	Robert Miller Soccer Building	36
MSM/HRC	Marjorie Barrick Museum and Harry Reid Center	60
NTS	North Trailer Site	40
O&M	Operations and Maintenance	1
PAR	Paradise Campus	2
PCT	Paradise Campus Trailers	54
PES	Paradise Elementary School	16

ABBREV.	BUILDING NAME	BUILDING NUMBER
PKG1	Cottage Grove Parking Garage	85
PKG2	Tropicana Parking Garage	4
PRO	Publications/Reprographics/Copy Center	38
PSB	Claude I. Howard Public Safety	44
RAB	Research Administration Building	41
RAJ	James E. Rogers Center for Administration & Justice	74
RHB	Gym Road Residence Hall - Building B	17
RHC	Gym Road Residence Hall - Building C	15
RHW	Gym Road South Resident Services Building	10
RPL	Radiation Protection Laboratory	71
RRC	Rebel Recycling Center	58
RWC	Student Recreation and Wellness Center	5
SAM	Student Affairs Maintenance	8
SCS	System Computing Services	70
SEB	Science and Engineering Building	62
SSC	Student Services Complex	24
STS	South Trailer Site	12
SU	Student Union	32
SWC	SideWalk Café	78
TAC	Richard Tam Alumni Center	81
TAY	William D. Taylor Hall	57
TBE	Thomas T. Beam Engineering Complex	61
TEC	Technology Building	72
TMA	Thomas & Mack Moot Court	76
TMC	Thomas & Mack Center	26
TON	Tonopah Residence Complex	21
TTL	Temporary Teaching Labs	67
UNH	University Hall	45
USB	University Systems Building	39
WBH	William S. Boyd Residence Hall	7
WBS	Earl E. Wilson Baseball Stadium	51
WHI	Juanita Greer White Life Sciences	65
WRI	John S. Wright Hall	35
WRL	Eugene R. Warner Residential Life Building	16

LGA people  
process  
place

241 w charleston, suite 107  
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www.lgainc.com

(consultant)



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### REVISIONS

Project No.: 0071-15-002

File: 007115002 UNLV LEISURE READING (bimserv)

Drawn By: MICHELLE RIMLER

Checked By: JOHN LANSDELL

All Drawings, Specifications and Copies thereof furnished by the Architect are to be used only with respect to this Project and are not to be used on any other Project with the exception of one contract set for each party to the building contract. Such Documents are to be returned or suitably accounted for to the Architect on request at the completion of the Project. Any use or reproduction of this Drawing in whole or in part by any means whatsoever is strictly prohibited except with the specific written consent of LG Architects, Inc., a Nevada Corporation. Copyright © LG Architects, Inc. all rights reserved. Submission or distribution to meet official regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of the Architects common law Copyrights or other reserved rights.

3D View:

Key Plan:

Date of Issue: 03/22/16

ISSUED FOR PLAN REVIEW

COVER PAGE

G1.01

All dimensions and on-site conditions are to be verified by the Subcontractors before starting their work. Report any discrepancies to the General Contractor.



ABBREVIATION LEGEND

&	AND	CORR	CORRIDOR	GB	GRAB BAR	OH	OVERHEAD	STA	STATION
L	ANGLE	CNTR	COUNTER	GC	GENERAL CONTRACTOR	OPNG	OPENING	STD	STANDARD
@	AT	CTR	CERAMIC TILE	GL	GLASS	OPP	OPPOSITE	STL	STEEL
⌒	CENTERLINE	CTR	CONTRACTOR	GND	GROUND	OFOI	OWNER FURNISHED, OWNER	STOR	STORAGE
°	DEGREE	CTSK	COUNTERSUNK	GR	GRADE		INSTALLED	STRL	STRUCTURAL
Ø	DIAMETER OR ROUND			GYP	GYPSUM	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	SUSP	SUSPENDED
□	SQUARE	DBL	DOUBLE					SV	SAFETY VESTIBULE
(E)	EXISTING	DEPT	DEPARTMENT	HB	HOSE BIB			SYM	SYMMETRICAL
⊥	PERPENDICULAR	DET	DETAIL	HC	HOLLOW CORE	PC	POINT OF CURVATURE		
⌒	PLATE	DF	DRINKING FOUNTAIN	HDWD	HARDWOOD	PJ	PANEL JOINT	T	TREAD
#	POUND OR NUMBER	DIA	DIAMETER	HDWE	HARDWARE	PL	PLATE	T&G	TONGUE AND GROOVE
+	PLUS OR MINUS	DIAG	DIAGONAL	HGT	HEIGHT	PLAM	PLASTIC LAMINATE	TB	TACK BOARD
ACOUS	ACOUSTICAL	DIM	DIMENSION	HM	HOLLOW METAL	PLAS	PLASTER	T.B.	TOWEL BAR
ACI	AMERICAN CONCRETE	DISP	DISPENSER	HORIZ	HORIZONTAL	PLBG	PLUMBING	TC	TOP OF CURB
	INSTITUTE	DL	DEAD LOAD	HP	HIGH POINT	PLYWD	PLYWOOD	TEL	TELEPHONE
AD	AREA DRAIN	DN	DOWN	HR	HOUR	PNL	PANEL	TER	TERRAZZO
ADJ	ADJUSTABLE	DO	DOOR OPENING	HR	HAND RAIL	POS	POSITIVE	THK	THICK
AFF	ABOVE FINISHED FLOOR	DR	DOOR	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	PP	POWER POLE	TOD	TOP OF DECK
AGGR	AGGREGATE	DRW	DRAWER			PR	PAIR	TOM	TOP OF MASONRY
AL	ALUMINUM	DS	DOWNSPOUT			PRCST	PRECAST	TOC	TOP OF CONCRETE
ALT	ALTERNATE	DSP	DRY STANDPIPE	ID	INSIDE DIMENSION	PSF	POUNDS PER SQUARE FOOT	TOP	TOP OF PARAPET
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DW	DRAINAGE	IN	INCH	PSI	POUNDS PER SQUARE INCH	TOS	TOP OF STEEL/STUD
		DW	DISHWASHER	INSUL	INSULATION	PT	POINT	TOW	TOP OF WALL
AP	ACCESS PANEL			INT	INTERIOR	P.T.	POINT OF TANGENCY	TP	TOP OF PAVEMENT
APPROX	APPROXIMATE	E	EAST	INV	INVERT	PTD	PAPER TOWEL DISPENSER	TPD	TOILET PAPER
ARCH	ARCHITECTURAL	EA	EACH			PTD/R	COMBINATION PAPER TOWEL DISPENSER AND	TRANS	TRANSFORMER
ASB	ASBESTOS	EJ	EXPANSION JOINT	JAN	JANITOR	PTN	RECEPTACLE	TRTD	TREATED
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS	EL	ELEVATION	JT	JOINT	PTR	PARTITION	TS	TUBE STEEL
		ELEC	ELECTRICAL	KIT	KITCHEN		PAPER TOWEL RECEPTACLE	TV	TELEVISION
ASPH	ASPHALT	ELEV	ELEVATOR			QT	QUARRY TILE	TYP	TYPICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EMER	EMERGENCY	LAB	LABORATORY				
		ENCL	ENCLOSURE	LAM	LAMINATE	R	RISER	UL	UNDERWRITERS
		ENGR	ENGINEER	LAV	LAVATORY	R or	RADIUS	LABORATORIES	
		EP	ELECTRICAL PANEL	LKR	LOCKER	RD	ROOF DRAIN	UNF	UNFINISHED
		EQ	EQUAL	LL	LIVE LOAD	REF	REFERENCE	UNO	UNLESS NOTED
BC	BOTTOM OF CURB	EQPT	EQUIPMENT	LP	LOW POINT	REFR	REFRIGERATOR		OTHERWISE
BOD	BOTTOM OF DECK	EWC	ELECTRIC WATER COOLER	LT	LIGHT	REIN	REINFORCED	UR	URINAL
BOD	BORD	EXP	EXPANSION			REQ	REQUIRED		
BITUM	BITUMINOUS	EXPO	EXPOSED	MAX	MAXIMUM	RESIL	RESILIENT	VCT	VINYL COMPOSITION TILE
BLDG	BUILDING	EXST	EXISTING	MB	MARKER BOARD	REV	REVISION	VERT	VERTICAL
BLK	BLOCK	EXT	EXTERIOR	MC	MEDICINE CABINET	RGRTR	REGISTER	VEST	VESTIBULE
BLKG	BLOCKING			MECH	MECHANICAL	RM	ROOM		
BM	BENCHMARK	FA	FIRE ALARM	MEMB	MEMBRANE	RO	ROUGH OPENING	W	WATER
BM	BEAM	FB	FLAT BAR	MTL	METAL	RS	ROD AND SHELF	W.	WEST
BN	BULL NOSE	FD	FLOOR DRAIN	MEZZ	MEZZANINE	RW	RIGHT OF WAY	WITH	W/
BOCA	BUILDING OFFICIALS AND CODE ADMINISTRATORS	FDN	FOUNDATION	MFR	MANUFACTURER	RWD	REDWOOD	WC	WALL COVERING
BOT	BOTTOM	FE	FIRE EXTINGUISHER	MH	MANHOLE	RWL	RAINWATER LEADER	W.C.	WATER CLOSET
BRG	BEARING	FE	FIRE EXTINGUISHER CABINET	MIN	MINIMUM			WD	WOOD
BTU	BRITISH THERMAL UNIT			MIR	MIRROR			WO	WITHOUT
BTUH	BRITISH THERMAL UNITS PER HOUR	FFE OR	FIXTURES, FURNISHINGS, AND EQUIPMENT	MISC	MISCELLANEOUS	S	SOUTH	WP	WATERPROOF
		FF&E		MO	MASONRY OPENING	SAN	SANITARY	WWM	WELDED WIRE MESH
CAB	CABINET	FHC	FIRE HOSE CABINET	MTD	MOUNTED	SC	SOLID CORE	WSC	WAINSCOT
CB	CHALKBOARD	FIN	FIN	MUL	MULLION	SCD	SEAT COVER DISPENSER	WT	WEIGHT
CB	CATCH BASIN	FL or	FLOOR			SCHED	SCHEDULE		
CEM	CEMENT	FLR	FLOOR	N	NORTH	SD	SOAP DISPENSER		
CER	CERAMIC	FLASH	FLASHING	NEC	NATIONAL ELECTRIC CODE	SECT	SECTION		
CFM	CUBIC FEET PER MINUTE	FLUOR	FLUORESCENT	NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION	SH	SHELL		
CG	CORNER GUARD	FOC	FACE OF CONCRETE			SHR	SHOWER		
CI	CAST IRON	FOF	FACE OF FINISH	NIC	NOT IN CONTRACT	SHT	SHEET		
CIP	CAST IN PLACE	FOS	FACE OF STUDS	NO or #	NUMBER	SIM	SIMILAR		
CJ	CONTROL JOINT	FPRF	FIREPROOF	NOM	NOMINAL	SJ	SAWN JOINT		
CLG	CEILING	FR	FRAME	NPC	NATIONAL PLUMBING CODE	SND	SANITARY NAPKIN DISPENSER		
CLKG	CAULKING	FS	FINISH SURFACE	NTS	NOT TO SCALE	SNR	SANITARY NAPKIN RECEPTACLE		
CLO	CLOSET	F.S.	FLOOR SINK						
CLR	CLEAR	FT	FOOT OR FEET	O/	OVER	SPEC	SPECIFICATIONS		
CO	CLEANOUT	FTG	FOOTING	OBS	OVERALL	SPKRLR	SPRINKLER		
COL	COLUMN	FURR	FURRING	OC or	ON CENTER				
CONC	CONCRETE	FUT	FUTURE	O/C	ON CENTER	SQ	SQUARE		
CONN	CONNECTION			O/C	ON CENTER	SSK	SERVICE SINK		
CONSTR	CONSTRUCTION	GA	GAUGE	OD	OUTSIDE DIAMETER	SST	STAINLESS STEEL		
CONT	CONTINUOUS	GALV or GI	GALVANIZED IRON	OFF	OFFICE	ST	STORM		

**BASIS OF DESIGN & CODE INFORMATION**


**BASIS OF DESIGN & CODE INFORMATION**

1. CODES:
  - 2012 INTERNATIONAL BUILDING CODE
  - 2012 INTERNATIONAL PLUMBING AND MECHANICAL CODE
  - 2011 NATIONAL ELECTRICAL CODE
  - 2012 INTERNATIONAL FIRE CODE
  - 2012 INTERNATIONAL ENERGY CONSERVATION CODE
  - 2012 INTERNATIONAL EXISTING BUILDING CODE
  - 2010 AMERICANS WITH DISABILITIES ACT STANDARDS
2. CONSTRUCTION: TYPE B II
3. SCOPE OF WORK: DEMOLITION AND TENANT IMPROVEMENT  
WITHIN EXISTING BUILDING

WORKING SYMBOLS LEGEND			
WORKING DRAWING SYMBOL		LOCATION	USE
	(SECTION NUMBER) (SHEET NUMBER)	PLANS	INDICATES BUILDING SECTION
	(ELEVATION NUMBER) (SHEET NUMBER)	PLANS	INDICATES EXTERIOR BUILDING ELEVATION
	(ELEVATION NUMBER ALONG OUTSIDE) (SHEET NUMBER INSIDE)	FLOOR PLANS AND ENLARGED PLANS	INDICATES INTERIOR ELEVATION
	(ELEVATION NUMBER) (SHEET NUMBER)		
	(ROOM NAME) (ROOM NUMBER)		
	(ROOM NAME) (ROOM SQUARE FOOTAGE) (LOAD FACTOR) (PERMITTED OCCUPANTS)	EXITING PLANS	DISPLAYS INFORMATION USED FOR EGRESS CALCULATIONS
	(PLAN OR DETAIL NUMBER) (SHEET NUMBER)	PLANS	INDICATES ENLARGED PLAN OR DETAIL
	(DRAWING NUMBER) (SHEET NUMBER)		
	(BUILDING SYSTEM TYPE)	PLANS AND SECTIONS	INDICATES BUILDING SYSTEM TYPE. SEE BUILDING SYSTEM SHEET (S).
	(CEILING TYPE) (CEILING HEIGHT)	REFLECTED CEILING PLANS	INDICATES CEILING TYPE AND HEIGHT ABOVE FINISHED FLOOR.
	(ELEVATION TARGET)	PLANS, ELEVATIONS AND SECTIONS	INDICATES VERTICAL HEIGHT
	(REVISION INDICATOR)	PLANS, ELEVATIONS AND SECTIONS	INDICATES REVISION
	(FINISH MATERIAL)	PLANS, ELEVATIONS AND SECTIONS	INDICATES FINISH MATERIAL
	(KEYNOTE NUMBER)	PLANS, ELEVATIONS AND SECTIONS	INDICATES KEYNOTE NUMBER
	(FFE ID)	PLANS	INDICATES FFE SCHEDULED ITEM

PROJECT TEAM	
<u>CLIENT:</u> <b>UNLV</b> 4505 S. Maryland Parkway Las Vegas, Nevada 89154 p: (702) 895-5218  Project Manager: Patrick Castellano UNLV Planning and Construction	
<u>ARCHITECT:</u> <b>LGA</b> 241 W. Charleston Blvd, Suite 107 Las Vegas, Nevada 89101 p: (702) 263-7111 www.lgainc.com  Project Manager: John Lansdell	
<u>ELECTRICAL / LOW VOLTAGE:</u> <b>TJK Consulting Engineers , Inc</b> 5459 South Durango Drive, Suite #100 Las Vegas, NV 89113 p: (702) 871-3621 f: (702) 871-8353  Project Manager: John Agostino	

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G1.04	SPECIFICATIONS
G1.05	SPECIFICATIONS
G1.06	SPECIFICATIONS
	ARCHITECTURAL
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A2.01	2ND FLOOR PLAN
A2.02	2ND FLOOR ENLARGED PLAN AND INTERIOR ELEVATIONS
A3.01	2ND FLOOR REFLECTED CEILING PLANS
A4.01	WALL SECTION AND DETAILS
	ELECTRICAL
EG1.01	ELECTRICAL LEGEND, ABBREVIATIONS SHEET INDEX
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ED1.01	DEMOLITION PLAN SECOND FLOOR
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E5.01	ONE LINE DIAGRAM & SCHEDULES
	ELECTRIC LIGHTING
EL2.1	2ND FLOOR PARTIAL LIGHTING PLAN

<div style="font-size: 48pt; font-weight: bold; margin-bottom: 10px;">LGA</div> <div style="font-size: 12pt; margin-bottom: 10px;">people process place</div> <div style="text-align: center; margin-bottom: 10px;">             241 w charleston, suite 107              las vegas, nevada 89102              Tel: 702.263.7111              www.lgainc.com         </div>	
<div style="font-size: 8pt;">(company)</div> <div style="text-align: center; margin: 10px 0;">  </div> <div style="font-size: 8pt;">(signature)</div>	
<div style="font-size: 14pt; font-weight: bold; margin-bottom: 10px;">UNIVERSITY OF NEVADA LAS VEGAS</div> <div style="font-size: 14pt; font-weight: bold; margin-bottom: 10px;">LIED LIBRARY - LEISURE READING</div> <div style="font-size: 12pt; margin-bottom: 10px;">4505 S. MARYLAND PARKWAY</div> <div style="font-size: 12pt; margin-bottom: 10px;">LAS VEGAS, NEVADA</div> <div style="font-size: 12pt; margin-bottom: 10px;">89119</div>	
<div style="font-size: 18pt; font-weight: bold; margin-bottom: 10px;">REVISIONS</div> <div style="height: 150px; border: 1px solid black; margin-bottom: 10px;"></div>	
<div style="font-size: 8pt; margin-bottom: 10px;">Project No.: 0071-15-002</div> <div style="font-size: 8pt; margin-bottom: 10px;">File: 007115002 UNLV LEISURE READING (bms/mv)</div> <div style="font-size: 8pt; margin-bottom: 10px;">Drawn By: MICHELLE RIMLER</div> <div style="font-size: 8pt; margin-bottom: 10px;">Checked By: JOHN LANSDELL</div>	
<div style="font-size: 8pt;">                     All Drawings, Specifications and Copies thereof furnished by the Architect are to be used only with respect to this Project and are not to be used on any other Project with the exception of one contract set for each party to the building contract. Such Documents are to be returned or suitably accounted for to the Architect on request at the completion of the Project. Any use or reproduction of this Drawing in whole or in part by any means whatsoever is strictly prohibited except with the specific written consent of LG Architects, Inc., a Nevada Corporation. Copyright to LG Architects, Inc., all rights reserved. Submission or distribution to meet official regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of the Architects common law Copyrights or other reserved rights.                 </div>	
<div style="font-size: 12pt; font-weight: bold; margin-bottom: 10px;">3D View:</div> <div style="height: 100px; border: 1px solid black; margin-bottom: 10px;"></div>	
<div style="font-size: 12pt; font-weight: bold; margin-bottom: 10px;">Key Plan:</div> <div style="height: 100px; border: 1px solid black; margin-bottom: 10px;"></div>	
<div style="font-size: 8pt; margin-bottom: 10px;">Date of Issue: 03/22/16</div> <div style="font-size: 8pt; margin-bottom: 10px;">ISSUED FOR PLAN REVIEW</div> <div style="font-size: 12pt; font-weight: bold; margin-bottom: 10px;">SHEET INDEX, BASIS OF DESIGN / CODE, ABBREVIATIONS, PROJECT TEAM</div> <div style="font-size: 48pt; font-weight: bold; margin-bottom: 10px;">G1.02</div>	
<div style="font-size: 8pt;">                     All dimensions and on-site conditions are to be verified by the Subcontractors before starting their work.                      Report any discrepancies to the General Contractor.                 </div>	



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SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 PROJECT INFORMATION

A. Project Identification: University of Nevada Las Vegas, Marjorie Barrick Lied Library, Leisure Reading.

1. Project Location: University of Nevada Las Vegas, Lied Library, 4505 S. Maryland Parkway, Las Vegas, NV.

B. Owner: University of Nevada Las Vegas, 4505 S. Maryland Parkway, Las Vegas, NV 89154.

1. Owner's Representative: Patrick Castellano, Project Architect; phone, 702-895-1591.

C. Architect: LGA, 241 W. Charleston Blvd, Suite 107, Las Vegas, NV 89102; phone, 702-263-7111 and fax, 702-263-8111.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

1. This project includes demolition within the Leisure Reading wall, and the construction of sound on the west wall, new hard lid ceiling, lighting, electrical, and low voltage work and fire sprinkler modifications at hard lid ceiling.

B. Type of Contract.

1. Project will be constructed under a single prime contract.

1.3 ACCESS TO SITE

A. General: Contractor shall have limited use of Project site for construction operations as indicated by requirements of this Section.

B. Use of Site: Limit use of Project site to area provided by UNLV for storage of materials. Do not disturb portions of site beyond areas in which the storage is allowed.

C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a dust tight condition throughout construction period. Repair damage caused by construction operations. Existing flooring must be protected.

1.4 COORDINATION WITH OCCUPANTS

A. Full Owner Occupancy: Owner will occupy site and existing building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.

1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.

2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations. Noisy or disruptive work may require coordination with building occupants.

1.5 WORK RESTRICTIONS

A. Work Restrictions, General: Comply with restrictions on construction operations.

B. On-Site Work Hours: Limit work in the existing building to business working hours of 7:00am to 7:00pm, Monday through Friday, unless otherwise indicated. Off hours work may be approved by owner with advanced notice, at no additional cost.

C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:

1. Notify Owner not less than two days in advance of proposed utility interruptions.

2. Obtain Owner's written permission before proceeding with utility interruptions.

D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.

1. Notify Owner not less than two days in advance of proposed disruptive operations.

2. Obtain Owner's written permission before proceeding with disruptive operations.

E. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.

F. Controlled Substances: Use of tobacco products and other controlled substances is not permitted.

1.6 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:

1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.

2. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

END OF SECTION 011000

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.7 SUMMARY

A. Section includes administrative and procedural requirements for substitutions.

B. Related Requirements:

1. Division 01 Section "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.8 DEFINITIONS

A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

1.9 ACTION SUBMITTALS

A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

1. Substitution Request Form: Use CSI Form 13.1A.

2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:

a. Statement indicating why specified product or fabrication or installation couldn't be provided, if applicable.

b. Coordination information, including a list of changes or revisions needed to other parts of the Work that will be necessary to accommodate proposed substitution.

c. Product Data, including drawings and descriptions of products and fabrication and installation procedures.

d. Samples, where applicable or requested.

e. Certificates and qualification data, where applicable or requested.

f. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.

g. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.

h. Cost information, including a proposal of change, if any, in the Contract Sum.

i. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated. Substitutions required must be issued during bidding if due to scheduling or procurement conflict.

j. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.

b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.10 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.

1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied:

a. Requested substitution is consistent with the Contract Documents and will produce indicated results.

b. Requested substitution will not adversely affect Contractor's construction schedule.

c. Requested substitution has received necessary approvals of authorities having jurisdiction.

d. Requested substitution is compatible with other portions of the Work.

e. Requested substitution has been coordinated with other portions of the Work.

f. Requested substitution provides specified warranty.

g. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

B. Substitution for Convenience: Not allowed.

END OF SECTION 012500

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

1.2 MINOR CHANGES IN THE WORK

A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.3 PROPOSAL REQUESTS

A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.

1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.

2. Within 10 days after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.

a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.

b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.

c. Include costs of labor and supervision directly attributable to the change.

d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

e. Quotation Form: Use CSI Form 13.6D, "Proposal Worksheet Summary," and Form 13.6C, "Proposal Worksheet Detail."

B. Contractor-Initiated Work Change Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.

2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.

3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.

4. Include costs of labor and supervision directly attributable to the change.

5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

6. Comply with requirements in Division 01 Section "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.

7. Work Change Proposal Request Form: Use CSI Form 13.6A, "Change Order Request (Proposal)," with attachments CSI Form 13.6D, "Proposal Worksheet Summary," and Form 13.6C, "Proposal Worksheet Detail."

1.4 CHANGE ORDER PROCEDURES

A. On Owner's approval of a Work Changes Proposal Request, owner will issue a Change Order for signatures of Architect and Contractor.

1.5 CONSTRUCTION CHANGE DIRECTIVE

A. Construction Change Directive: Owner with architect's agreement may issue a Construction Change Directive. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.

B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.

1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

END OF SECTION 012600

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.

B. Related Requirements:

Division 01 Section "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.

1.2 SCHEDULE OF VALUES

A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.

1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:

a. Application for Payment forms with continuation sheets.

b. Submittal schedule.

c. Items required to be indicated as separate activities in Contractor's construction schedule.

2. Submit the schedule of values to Architect at earliest possible date but no later than seven days before the date scheduled for submittal of initial Applications for Payment.

B. Format and Content: Provide at least one line item for each Specification Section.

1. Identification: Include the following Project identification on the schedule of values:

a. Project name and location.

b. Name of Architect.

c. Architect's project number.

d. Contractor's name and address.

e. Date of submittal.

f. UNLV PO# and project #

2. Arrange schedule of values consistent with format of AIA Document G703.

3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.

4. Round amounts to nearest whole dollar; total shall equal the Contract Sum.

5. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.

C. Each Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.

D. Payment Application Times: Submit Application for Payment to Architect by the first of the month. The period covered by each Application for Payment is one month, ending on the last day of the month.

E. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment.

F. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.

1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.

2. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.

G. Transmittal: Submit one signed and notarized original copy of each Application for Payment to Architect by a method ensuring receipt. One copy shall include waivers of lien and similar attachments if required.

1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.

H. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment.

1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.

2. When an application shows completion of an item, submit conditional final or full waivers.

3. Owner reserves the right to designate which entities involved in the Work must submit waivers.

4. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.

I. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:

1. List of subcontractors.

2. Schedule of values.

3. Contractor's construction schedule (preliminary if not final).

4. Submittal schedule (preliminary if not final).

5. List of Contractor's staff assignments.

6. Copies of building permits.

7. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.

8. Initial progress report.

9. Certificates of insurance and insurance policies.

J. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.

1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.

2. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.

K. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:

1. Evidence of completion of Project closeout requirements.

2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.

3. Updated final statement, accounting for final changes to the Contract Sum.

4. AIA Document G706-1994, "Contractor's Affidavit of Payment of Debts and Claims."

5. AIA Document G706A-1994, "Contractor's Affidavit of Release of Liens."

6. AIA Document G707-1994, "Consent of Surety to Final Payment."

7. Evidence that claims have been settled.

8. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.

9. Final liquidated damages settlement statement.

END OF SECTION 012900

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

B. Related Requirements:

1. Division 01 Section "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.

2. Division 01 Section "Operation and Maintenance Data" for submitting operation and maintenance manuals.

3. Division 01 Section "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

4. Division 01 Section "Demonstration and Training" for submitting video recordings of demonstration of equipment and training of Owner's personnel.

1.2 DEFINITIONS

A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action.

B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements.

1.3 ACTION SUBMITTALS

A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

A. Architect's Digital Data Files: Electronic copies of digital data files of the Contract Drawings will not be provided by Architect for Contractor's use in preparing submittals.

B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.

2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.

a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

C. Processing Time: Allow time for submittal review, including time for re-submittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including re-submittals.

1. Initial Review: Allow 8 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.

2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.

3. Re-submittal Review: Allow 8 days for review of each re-submittal.

D. Paper Submittals: Place a permanent label or title block on each submittal item for identification.

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place

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REVISIONS

Project No.: 0071-15-002

File: 007115002 UNLV LEISURE READING [lms\server]

Drawn By: MICHELLE RIMLER

Checked By: JOHN LANSDALL

All Drawings, Specifications and Copies thereof furnished by the Architect are to be used only with respect to this Project and are not to be used on any other Project with the exception of one contract set for each party to the building contract. Such Documents are to be returned or suitably accounted for to the Architect on request at the completion of the Project. Any use or reproduction of this Drawing in whole or in part by any means whatsoever is strictly prohibited except with the specific written consent of LG Architects, Inc., a Nevada Corporation. Copyright © LG Architects, Inc. all rights reserved. Submission or distribution to meet official regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of the Architects common law Copyrights or other reserved rights.

3D View:

Key Plan:

Date of Issue: 03/22/16  
ISSUED FOR PLAN REVIEW

SPECIFICATIONS

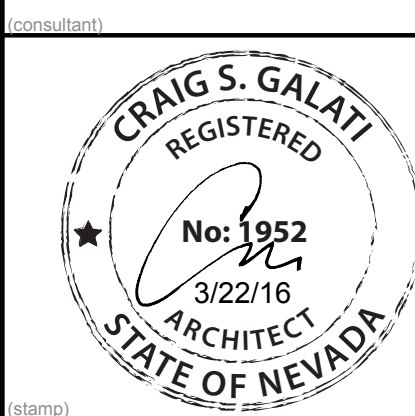
G1.03

All dimensions and on-site conditions are to be verified by the Subcontractors before starting their work. Report any discrepancies to the General Contractor.



## SPECIFICATIONS

1.	Indicate name of firm or entity that prepared each submittal on label or title block.	a. Printed performance curves. b. Operational range diagrams. c. Clearances required to other construction, if not indicated on accompanying Shop Drawings.	A. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner from fumes and noise.	3.	complete with labels and instructions for handling, storing, unpacking, protecting, and installing. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.
2.	Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect.	5. Submit Product Data before or concurrent with Samples. 6. Submit Product Data in the following format: a. PDF electronic file. b. Three paper copies of Product Data unless otherwise indicated. Architect will return two copies.	B. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner from fumes and noise. 1. Construct dustproof partitions with two layers of 6-mil polyethylene sheet on each side. Cover floor with two layers of 6-mil polyethylene sheet, extending sheets 18 inches up the sidewalls. Overlap and tape full length of joints. Cover floor with fire-retardant-treated plywood. Insulate partitions to control noise transmission to occupied areas. 2. Seal joints and perimeter. Equip partitions with gasketed dustproof doors and security locks where openings are required. 3. Protect air-handling equipment. 4. Provide walk-off mats at each entrance through temporary partition.	C. Storage: 1. Store products to allow for inspection and measurement of quantity or counting of units. 2. Store materials in a manner that will not endanger Project structure. 3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation. 4. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.	
3.	Include the following information for processing and recording action taken: a. Project name. b. Date. c. Name of Architect. d. Name of Construction Manager. e. Name of Contractor. f. Name of subcontractor. g. Name of supplier. h. Name of manufacturer. i. Submittal number or other unique identifier, including revision identifier. 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Re-submittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A). j. Number and title of appropriate Specification Section. k. Drawing number and detail references, as appropriate. l. Location(s) where product is to be installed, as appropriate. m. Other necessary identification.	C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data. 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable: a. Identification of products. b. Schedules. c. Compliance with specified standards. d. Notation of coordination requirements. e. Notation of dimensions established by field measurement. f. Relationship and attachment to adjoining construction clearly indicated. g. Seal and signature of professional engineer if specified. 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 22 by 34 inches. 3. Submit Shop Drawings in the following format: a. PDF electronic file. b. Three opaque copies of each submittal. Architect will retain one copy; remainder will be returned.	C. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire prevention program. 1. Prohibit smoking in construction areas. 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction. 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information. 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.	1.6 PRODUCT WARRANTIES A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents. 1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner. 2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner. B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution. 1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed. 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed. 3. Refer to Divisions 02 through 33. Sections for specific content requirements and particular requirements for submitting special warranties.	
E.	Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows: 1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item. 2. Name file with submittal number or other unique identifier, including revision identifier. a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A). 3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect. 4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner, containing the following information: a. Project name. b. Date. c. Name and address of Architect. d. Name of Construction Manager. e. Name of Contractor. f. Name of firm or entity that prepared submittal. g. Names of subcontractor, manufacturer, and supplier. h. Category and type of submittal. i. Submittal purpose and description. j. Specification Section number and title. k. Specification paragraph number or drawing designation and generic name for each of multiple items. l. Drawing number and detail references, as appropriate. m. Location(s) where product is to be installed, as appropriate. n. Related physical samples submitted directly. o. Indication of full or partial submittal. p. Transmittal number, numbered consecutively. q. Submittal and transmittal distribution record. r. Other necessary identification. s. Remarks.	D. Coordination Drawings Submittals: Comply with requirements specified in Division 01 Section "Project Management and Coordination." E. Contractor's Construction Schedule: Comply with requirements specified in Division 01 Section "Construction Progress Documentation." F. Application for Payment and Schedule of Values: Comply with requirements specified in Division 01 Section "Payment Procedures." G. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Division 01 Section "Closeout Procedures." H. Maintenance Data: Comply with requirements specified in Division 01 Section "Operation and Maintenance Data." I. Qualification Data: Prepare written information that demonstrates capabilities and experience of a firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.	3.3 OPERATION, TERMINATION, AND REMOVAL A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses. B. Maintenance: Maintain facilities in good operating condition until removal. 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage. C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired. 1. Materials and facilities that constitute temporary facilities are property of Contractor. 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."	C. Submittal Time: Comply with requirements in Division 01 Section "Closeout Procedures."	
PART 2 -	PRODUCTS	PART 3 -	END OF SECTION 015000	PART 2 -	PRODUCTS
2.1	SUBMITTAL PROCEDURES	3.1 CONTRACTOR'S REVIEW	SECTION 016000 - PRODUCT REQUIREMENTS PART 1 - GENERAL 1.1 SUMMARY A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products. B. Related Requirements: 1. Division 01 Section "Substitution Procedures" for requests for substitutions. 1.2 DEFINITIONS A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent. 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents. 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products. 3. Comparable Product: Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.	2.1 PRODUCT SELECTION PROCEDURES	SECTION 017300 - EXECUTION PART 1 - GENERAL 1.1 SUMMARY A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following: 1. Construction layout. 2. Field engineering and surveying. 3. Installation of the Work. 4. Cutting and patching. 5. Coordination of Owner-installed products. 6. Progress cleaning. 7. Starting and adjusting. 8. Protection of installed construction. 9. Correction of the Work. B. Related Requirements: 1. Division 01 Section "Summary" for limits on use of Project site. 2. Division 01 Section "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning. 3. Division 07 Section "Penetration Firestopping" for patching penetrations in fire-rated construction.
		3.2 ARCHITECT'S ACTION	SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS PART 1 - GENERAL 1.1 SUMMARY A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities. B. Related Requirements: 1. Division 01 Section "Summary" for work restrictions and limitations on utility interruptions. 1.2 USE CHARGES A. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. B. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. 1.3 INFORMATIONAL SUBMITTALS A. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire prevention program. 1.4 QUALITY ASSURANCE A. Accessible Temporary Egress: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.	END OF SECTION 016000	SECTION 017300 - EXECUTION PART 1 - GENERAL 1.1 SUMMARY A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following: 1. Construction layout. 2. Field engineering and surveying. 3. Installation of the Work. 4. Cutting and patching. 5. Coordination of Owner-installed products. 6. Progress cleaning. 7. Starting and adjusting. 8. Protection of installed construction. 9. Correction of the Work. B. Related Requirements: 1. Division 01 Section "Summary" for limits on use of Project site. 2. Division 01 Section "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning. 3. Division 07 Section "Penetration Firestopping" for patching penetrations in fire-rated construction.
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PART 2 -	PRODUCTS	PART 3 -	END OF SECTION 015000	PART 2 -	PRODUCTS
2.1	SUBMITTAL PROCEDURES	3.1 CONTRACTOR'S REVIEW	SECTION 016000 - PRODUCT REQUIREMENTS PART 1 - GENERAL 1.1 SUMMARY A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products. B. Related Requirements: 1. Division 01 Section "Substitution Procedures" for requests for substitutions. 1.2 DEFINITIONS A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent. 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents. 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products. 3. Comparable Product: Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.	2.1 PRODUCT SELECTION PROCEDURES	SECTION 017300 - EXECUTION PART 1 - GENERAL 1.1 SUMMARY A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following: 1. Construction layout. 2. Field engineering and surveying. 3. Installation of the Work. 4. Cutting and patching. 5. Coordination of Owner-installed products. 6. Progress cleaning. 7. Starting and adjusting. 8. Protection of installed construction. 9. Correction of the Work. B. Related Requirements: 1. Division 01 Section "Summary" for limits on use of Project site. 2. Division 01 Section "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning. 3. Division 07 Section "Penetration Firestopping" for patching penetrations in fire-rated construction.
		3.2 ARCHITECT'S ACTION	SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS PART 1 - GENERAL 1.1 SUMMARY A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities. B. Related Requirements: 1. Division 01 Section "Summary" for work restrictions and limitations on utility interruptions. 1.2 USE CHARGES A. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. B. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations. 1.3 INFORMATIONAL SUBMITTALS A. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire prevention program. 1.4 QUALITY ASSURANCE A. Accessible Temporary Egress: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.		
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## REVISIONS

Project No.: 0071-15-002

File: 007115002 UNLV LEISURE READING [bimserver]

Drawn By: MICHELLE RIMLER

Checked By: JOHN LANSDELL

All Drawings, Specifications and Copies thereof furnished by the Architect are to be used only with respect to this Project and are not to be used on any other Project with the exception of one contract set for each party to the building contract. Such Documents are to be returned or suitably accounted for to the Architect on request at the completion of the Project. Any use or reproduction of this Drawing in whole or in part by any means whatsoever is strictly prohibited except with the specific written consent of LG Architects, Inc., a Nevada Corporation. The LG Architects, Inc. will retain all rights reserved. Submission or reproduction to meet official regulatory requirements or for other purposes in connection with the project in not to be construed as publication in derogation of the Architects common law Copyrights or other reserved rights.

3D View:

Key Plan:

Date of Issue: 03/22/16

## SPECIFICATIONS

# G1.04

All dimensions and on-site conditions are to be verified by the Subcontractors before starting their work.  
Report any discrepancies to the General Contractor.



teamwork/bimserver007115002 UNLV LEISURE READING/ISSUED FOR PLAN REVIEW/0106SPECIFICATIONS/Tuesday, March 29, 2016/12:31 PM

SPECIFICATIONS			
B.	and verify the existence and location of utilities, mechanical and electrical systems, and other construction affecting the Work. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with	3. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting. 4. Proceed with patching after construction operations requiring cutting are complete.	A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete. B. Submittals Prior to Substantial Completion: Complete the following a minimum of [10] ten days prior to requesting inspection for determining date of Substantial Completion. Technical submittals can be submitted via PDF. Finishes and other material objects submitted for approval require 5 copies (1 for UNLV, 2 for contractor, 1 for LGA). List items below that are incomplete at time of request.
	requirements for installation tolerances and other conditions affecting performance. Record observations. 1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation. 2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed. 3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers. C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.	H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable. 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation. 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing. 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance. 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance. I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.	agents that are potentially hazardous to health or property or that might damage finished surfaces. EXECUTION PART 3 - 3.1 FINAL CLEANING A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations. B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions. 1. Complete the following cleaning operations before requesting
3.2 PREPARATION	A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work. B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings. C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Division 01 Section "Project Management and Coordination."	3.6 PROGRESS CLEANING A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully. 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris. 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F. B. Site: Maintain Project site free of waste materials and debris. C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work. 1. Remove liquid spills promptly. 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate. D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces. E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space. F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion. G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion. I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.	1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases. 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information. 3. Electronically submit maintenance material submittals specified in individual Divisions 02 through 33 Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number where applicable. a. Schedule of Maintenance Material Items: Prepare and electronically submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Architect's signature for receipt of submittals. 4. Submit test/adjust/balance records.
3.3 CONSTRUCTION LAYOUT	A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.		C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request. 1. Advise Owner of pending insurance changeover requirements. 2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions. 3. Complete startup and testing of systems and equipment. 4. Perform preventive maintenance on equipment used prior to Substantial Completion. 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training video recordings specified in Division 01 Section "Demonstration and Training." 6. Advise Owner of changeover in heat and other utilities. 7. Participate with Owner in conducting inspection and walkthrough with local emergency responders. 8. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements. 9. Complete final cleaning requirements, including touchup painting. 10. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
3.4 INSTALLATION	A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated. 1. Make vertical work plumb and make horizontal work level. 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement. 3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated. B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated. C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion. D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy. E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations. F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels. G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements. H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions. 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect. 2. Allow for building movement, including thermal expansion and contraction. 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation. I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints. J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.	3.7 STARTING AND ADJUSTING A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest. B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding. C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment. D. Manufacturer's Field Service: Comply with qualification requirements in Division 01 Section "Quality Requirements." 3.8 PROTECTION OF INSTALLED CONSTRUCTION A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion. B. Comply with manufacturer's written instructions for temperature and relative humidity.	D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued. 1. Re-inspection: Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected. 2. Results of completed inspection will form the basis of requirements for final completion.
	END OF SECTION 017300		1.6 FINAL COMPLETION PROCEDURES A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following: 1. Submit a final Application for Payment according to Division 01 Section "Payment Procedures." 2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance. 3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements. 4. Submit pest-control final inspection report and warranty. 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. B. Inspection: Submit a written request for final inspection to determine acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued. 1. Re-inspection: Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected.
3.5 CUTTING AND PATCHING	A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay. 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition. B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties. C. Temporary Support: Provide temporary support of work to be cut. D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations. E. Adjacent Occupied Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas. F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas. G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations. 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use. 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.	SECTION 017700 - CLOSEOUT PROCEDURES PART 1 - GENERAL 1.1 SUMMARY A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following: 1. Substantial Completion procedures. 2. Final completion procedures. 3. Warranties. 4. Final cleaning. 5. Repair of the Work. B. Related Requirements: 1. Division 01 Section "Operation and Maintenance Data" for operation and maintenance manual requirements. 2. Division 01 Section "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data. 3. Division 01 Section "Demonstration and Training" for requirements for instructing Owner's personnel.	1.7 LIST OF INCOMPLETE ITEMS (PUNCH LIST) A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction. Use CSI Form 14.1A. 1. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems. 1.8 SUBMITTAL OF PROJECT WARRANTIES A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty. B. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual. 1. Electronically sized to receive 8-1/2-by-11-inch paper. 2. Mark each file to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer. 3. Provide a cover sheet with the title "WARRANTIES," Project name, and name of Contractor.
	END OF SECTION 017700		END OF SECTION 017700
	SECTION 017823 - OPERATION AND MAINTENANCE DATA PART 1 - GENERAL 1.1 SUMMARY A. Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following: 1. Operation and maintenance documentation directory. 2. Emergency manuals. 3. Operation manuals for systems, subsystems, and equipment. 4. Product maintenance manuals. 5. Systems and equipment maintenance manuals. 1.2 CLOSEOUT SUBMITTALS A. Manual Content: Operations and maintenance manual content is specified in individual Specification Sections to be reviewed at the time of Section submittals. Submit reviewed manual content formatted and organized as required by this Section. 1. Architect will comment on whether content of operations and maintenance submittals are acceptable. 2. Where applicable, clarify and update reviewed manual content to correspond to revisions and field conditions. B. Format: Submit operations and maintenance manuals in the following format: 1. Electronically C. Manual Submittal: Submit each manual in final form prior to requesting inspection for Substantial Completion and at least 15 days before commencing demonstration and training. Architect will return copy with comments. 1. Correct or revise each manual to comply with Architect's comments. Submit copies of each corrected manual within 15 days of receipt of Architect's comments and prior to commencing demonstration and training.		inspection for certification of Substantial Completion for entire Project or for a designated portion of Project: a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances. b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits. c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface. d. Remove tools, construction equipment, machinery, and surplus material from Project site. e. Remove snow and ice to provide safe access to building. f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition. g. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces. h. Sweep concrete floors broom clean in unoccupied spaces. i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain. j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces. k. Remove labels that are not permanent. l. Wipe surfaces of mechanical and electrical equipment and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances. m. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills. n. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. o. Leave Project clean and ready for occupancy.
			3.2 REPAIR OF THE WORK A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion. B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition. 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials. 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration. a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification. 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity. 4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.
			END OF SECTION 017700
			SECTION 017823 - OPERATION AND MAINTENANCE DATA PART 1 - GENERAL 1.1 SUMMARY A. Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following: 1. Operation and maintenance documentation directory. 2. Emergency manuals. 3. Operation manuals for systems, subsystems, and equipment. 4. Product maintenance manuals. 5. Systems and equipment maintenance manuals. 1.2 CLOSEOUT SUBMITTALS A. Manual Content: Operations and maintenance manual content is specified in individual Specification Sections to be reviewed at the time of Section submittals. Submit reviewed manual content formatted and organized as required by this Section. 1. Architect will comment on whether content of operations and maintenance submittals are acceptable. 2. Where applicable, clarify and update reviewed manual content to correspond to revisions and field conditions. B. Format: Submit operations and maintenance manuals in the following format: 1. Electronically C. Manual Submittal: Submit each manual in final form prior to requesting inspection for Substantial Completion and at least 15 days before commencing demonstration and training. Architect will return copy with comments. 1. Correct or revise each manual to comply with Architect's comments. Submit copies of each corrected manual within 15 days of receipt of Architect's comments and prior to commencing demonstration and training.
			PART 2 - 2.1 MATERIALS A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning
			PART 2 - 2.1 PRODUCTS A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following materials, in the order listed:
CONTINUED ON G1.06			

LGA

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process  
place

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Drawn By: MICHELLE RIMLER

Checked By: JOHN LANSDALL

All Drawings, Specifications and Copies thereof furnished by the Architect are to be used only with respect to this Project and are not to be used on any other Project with the exception of one contract set for each party to the building contract. Such Documents are to be returned or suitably accounted for to the Architect on request at the completion of the Project. Any use or reproduction of this Drawing in whole or in part by any means whatsoever is strictly prohibited except with the specific written consent of LG Architects, Inc., a Nevada Corporation. Copyright © LG Architects, Inc. all rights reserved. Submission or distribution to meet official regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of the Architects common law Copyrights or other reserved rights.

3D View:

Key Plan:

Date of Issue: 03/22/16  
ISSUED FOR PLAN REVIEW

SPECIFICATIONS

G1.05

All dimensions and on-site conditions are to be verified by the Subcontractors before starting their work. Report any discrepancies to the General Contractor.



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1.

Title page.

2.

Table of contents.

3.

Manual contents.

B.

Title Page: Include the following information:

1.

Subject matter included in manual.

2.

Name and address of Project.

3.

Name and address of Owner.

4.

Date of submittal.

5.

Name and contact information for Contractor.

6.

Name and contact information for Construction Manager.

7.

Name and contact information for Architect.

8.

Name and contact information for Commissioning Authority.

9.

Names and contact information for major consultants to the Architect

that designed the systems contained in the manuals.

10.

Cross-reference to related systems in other operation and maintenance manuals.

C.

Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.

D.

Manuals, Electronic Copy: Submit manuals in the form of electronic copy with labeled volumes.

2.2

OPERATION MANUALS

A.

Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and the following information:

1.

System, subsystem, and equipment descriptions. Use designations for systems and equipment indicated on Contract Documents.

2.

Performance and design criteria if Contractor is delegated design responsibility.

3.

Operating standards.

4.

Operating procedures.

5.

Operating logs.

6.

Wiring diagrams.

7.

Control diagrams.

8.

Piped system diagrams.

9.

Precautions against improper use.

10.

License requirements including inspection and renewal dates.

B.

Descriptions: Include the following:

1.

Product name and model number. Use designations for products indicated on Contract Documents.

2.

Manufacturer's name.

3.

Equipment identification with serial number of each component.

4.

Equipment function.

5.

Operating characteristics.

6.

Limiting conditions.

7.

Performance curves.

8.

Engineering data and tests.

9.

Complete nomenclature and number of replacement parts.

C.

Operating Procedures: Include the following, as applicable:

1.

Startup procedures.

2.

Equipment or system break-in procedures.

3.

Routine and normal operating instructions.

4.

Regulation and control procedures.

5.

Instructions on stopping.

6.

Normal shutdown instructions.

7.

Seasonal and weekend operating instructions.

8.

Required sequences for electric or electronic systems.

9.

Special operating instructions and procedures.

D.

Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.

E.

Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

2.3

PRODUCT MAINTENANCE MANUALS

A.

Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.

B.

Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

C.

Product Information: Include the following, as applicable:

1.

Product name and model number.

2.

Manufacturer's name.

3.

Color, pattern, and texture.

4.

Material and chemical composition.

5.

Reordering information for specially manufactured products.

D.

Maintenance Procedures: Include manufacturer's written recommendations and the following:

1.

Inspection procedures.

2.

Types of cleaning agents to be used and methods of cleaning.

3.

List of cleaning agents and methods of cleaning detrimental to product.

4.

Schedule for routine cleaning and maintenance.

5.

Repair instructions.

E.

Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

F.

Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

2.4

SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS

A.

Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.

B.

Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including the following information for each component part or piece of equipment:

1.

Standard maintenance instructions and bulletins.

2.

Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly.

3.

Identification and nomenclature of parts and components.

4.

List of items recommended to be stocked as spare parts.

C.

Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:

1.

Test and inspection instructions.

2.

Troubleshooting guide.

3.

Precautions against improper maintenance.

4.

Disassembly; component removal, repair, and replacement; and reassembly instructions.

5.

Aligning, adjusting, and checking instructions.

6.

Demonstration and training video recording, if available.

D.

Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.

E.

Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.

F.

Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

PART 3 -

EXECUTION

3.1

MANUAL PREPARATION

A.

Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.

B.

Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.

C.

Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.

D.

Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.

E.

Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

END OF SECTION 017823

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 -

GENERAL

1.1

SUMMARY

A.

Section includes administrative and procedural requirements for project record documents, including the following:

1.

Record Drawings.

1.2

CLOSEOUT SUBMITTALS

A.

Record Drawings: Comply with the following:

1.

Number of Copies: Submit one set of marked-up record prints.

PART 2 -

PRODUCTS

2.1

RECORD DRAWINGS

A.

Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised Drawings as modifications are issued.

1.

Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

a.

Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.

b.

Record data as soon as possible after obtaining it.

c.

Record and check the markup before enclosing concealed installations.

2.

Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.

3.

Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.

4.

Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

PART 3 -

EXECUTION

3.1

RECORDING AND MAINTENANCE

A.

Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.

B.

Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.

END OF SECTION 017839

SECTION 017900 - DEMONSTRATION AND TRAINING

PART 1 -

GENERAL

1.1

SUMMARY

A.

Section includes administrative and procedural requirements for instructing Owner's personnel, including the following:

1.

Demonstration of operation of systems, subsystems, and equipment.

2.

Training in operation and maintenance of systems, subsystems, and equipment.

1.2

QUALITY ASSURANCE

A.

Instructor Qualifications: A factory-authorized service representative, complying with requirements in Division 01 Section "Quality Requirements," experienced in operation and maintenance procedures and training.

1.3

COORDINATION

A.

Coordinate instruction schedule with Owner's operations. Adjust schedule as required to minimize disrupting Owner's operations and to ensure availability of Owner's personnel.

PART 2 -

PRODUCTS

2.1

INSTRUCTION PROGRAM

A.

Program Structure: Develop an instruction program that includes individual training modules for each system and for equipment not part of a system, as required by individual Specification Sections.

PART 3 -

EXECUTION

3.1

PREPARATION

A.

Assemble educational materials necessary for instruction, including documentation and training module. Assemble training modules into a training manual organized in coordination with requirements in Division 01 Section "Operations and Maintenance Data."

3.2

INSTRUCTION

A.

Engage qualified instructors to instruct Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system. Scheduling: Provide instruction at mutually agreed on times. For equipment that requires seasonal operation, provide similar instruction at start of each season.

C.

Training Location and Reference Material: Conduct training on-site in the completed and fully operational facility using the actual equipment in-place. Conduct training using final operation and maintenance data submittals.

END OF SECTION 017900

SECTION 024119 - SELECTIVE STRUCTURE DEMOLITION

1.1

PROJECT CONDITIONS

A.

Owner will occupy portions of building immediately adjacent to selective demolition area.

B.

Hazardous Materials: Not expected.

C.

Protection of historic floor material in place is required.

1.2

EXECUTION

A.

Professional engineer engaged to survey condition of building.

1.

Recorded by use of measured drawings.

B.

Utility Services and Mechanical/Electrical Systems: Maintained to occupied facilities.

1.

Shut Off: By Owner.

C.

Site Access and Temporary Controls: Minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities

D.

Temporary Facilities:

1.

Temporary barricades to prevent injury to people.

2.

Protection of existing finish work to remain.

3.

Protection of furnishings and equipment.

F.

Removed and Salvaged Items: Cleaned, crated, stored, and transported to Owner's on-site storage area.

E.

Removed and Reinstalled Items: Cleaned, repaired, crated, stored, and reinstalled.

F.

Existing Items to Remain: Existing construction protected against damage.

G.

Disposal of Demolished Items:

1.

Burning: Not permitted.

2.

Disposal: Off Owner's property.

1.3

SELECTIVE DEMOLITION SCHEDULE

A.

Raised Floor Substructure and Floor Panels.

B.

Acoustical Ceiling Grid and Tiles.

C.

To be revised later

D.

Fire Extinguisher With Recessed Cabinet.

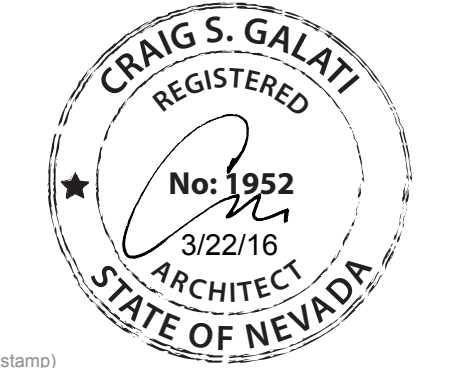
E.

Exit Sign.

F.

Door Slab.

END OF SECTION 024119



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REVISIONS

Project No.: 0071-15-002  
File: 007115002 UNLV LEISURE READING [bimserv]  
Drawn By: MICHELLE RIMLER  
Checked By: JOHN LANSDELL

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Key Plan:

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SPECIFICATIONS

G1.06

All dimensions and on-site conditions are to be verified by the Subcontractors before starting their work. Report any discrepancies to the General Contractor.

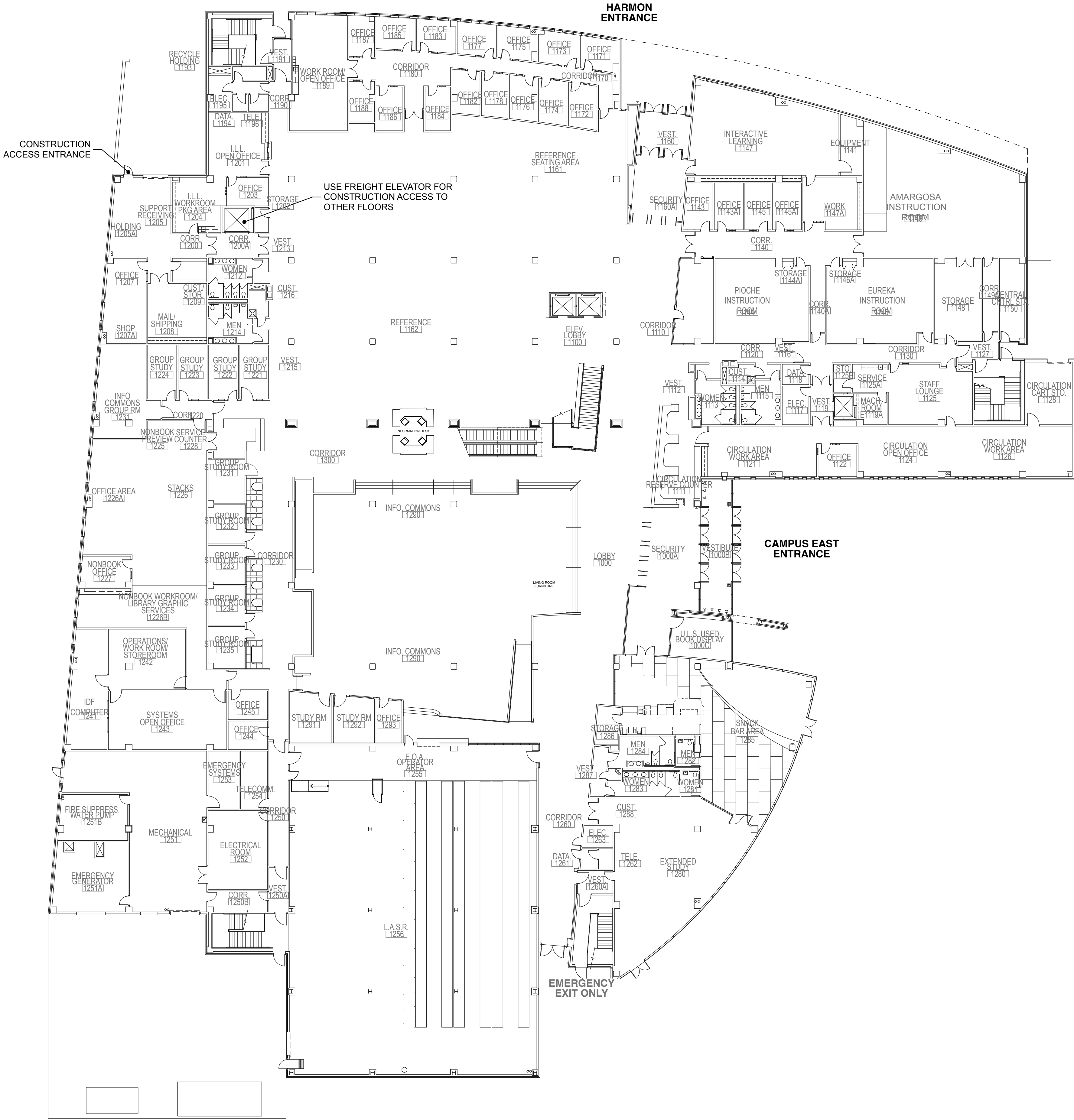


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1

1ST FLOOR PLAN - CONSTRUCTION ACCESS ONLY

SCALE: 1" = 20'



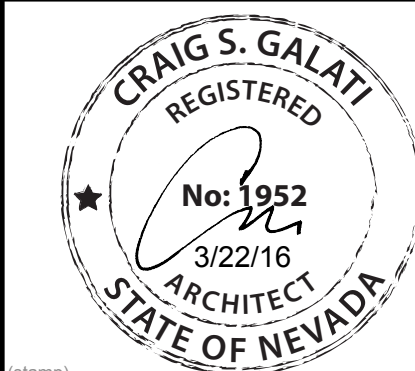
GENERAL NOTES - FLOOR PLAN

1. FIRST FLOOR SHOWN FOR CONSTRUCTION ACCESS ONLY. NO WORK ON FIRST FLOOR.
2. KEEP ALL CONSTRUCTION PATHS OF TRAVEL CLEAN AND DEBRIS FREE.
3. COORDINATE WITH UNLV STAFF ACCESS POINTS, MATERIAL STORAGE, ETC.

LGA people process place

241 w charleston, suite 107  
las vegas, nevada 89102  
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www.lgainc.com

(consultant)



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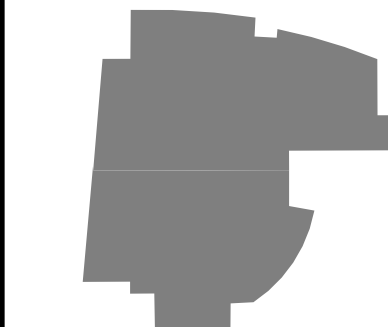
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1ST FLOOR  
CONSTRUCTION ACCESS  
ONLY

A1.01

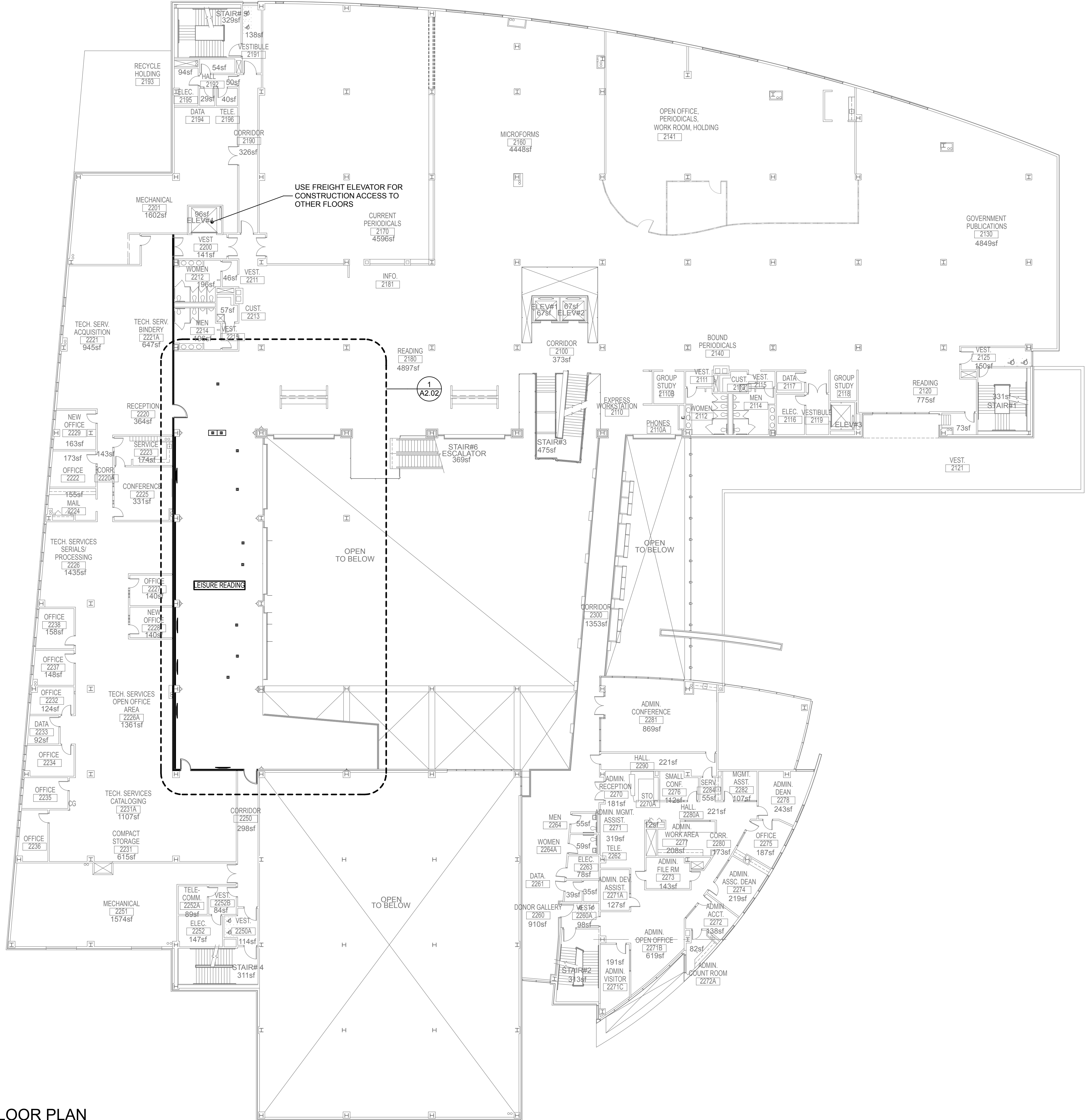
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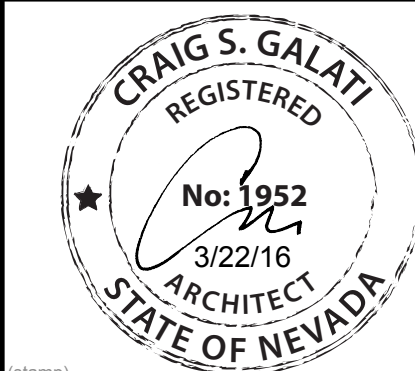
teamwork://bmserv/007115002 UNLV LEISURE READING ISSUED FOR PLAN REVIEW/2.01/2ND FLOOR PLAN/Tuesday, March 29, 2016/12:31 PM/

1 2ND FLOOR PLAN

SCALE: 1/16" = 1'-0"



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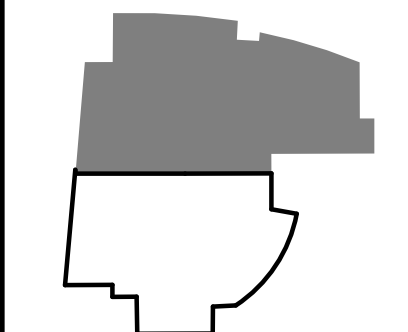
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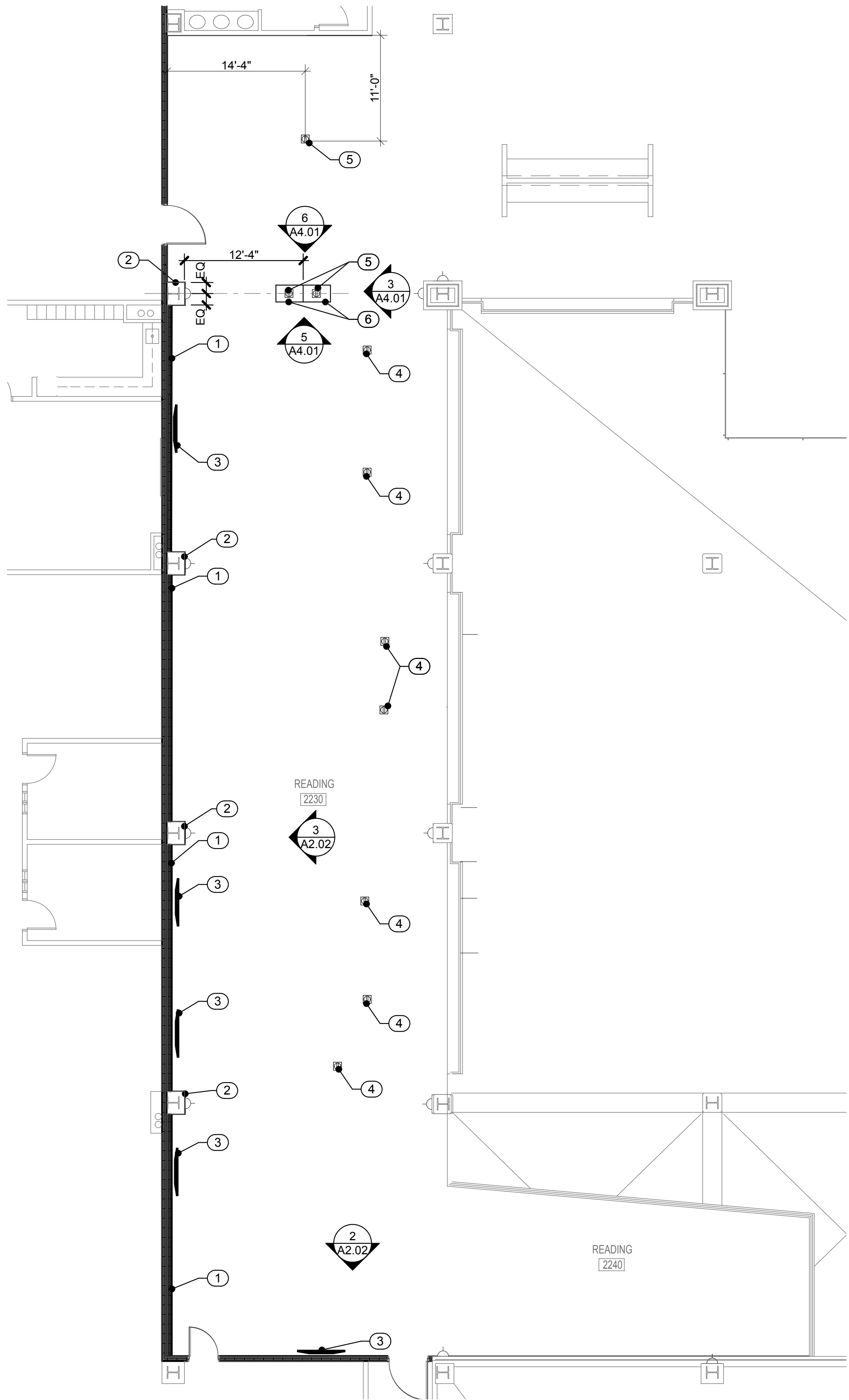
2ND FLOOR PLAN

A2.01

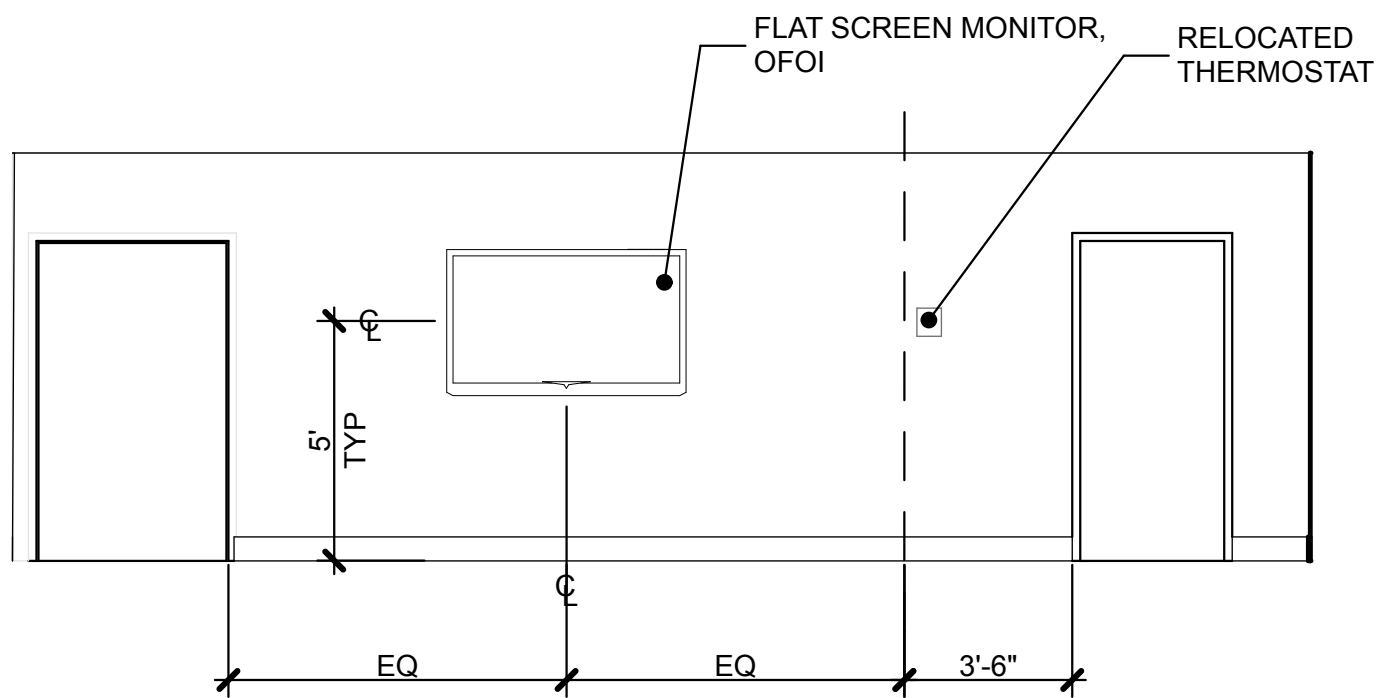
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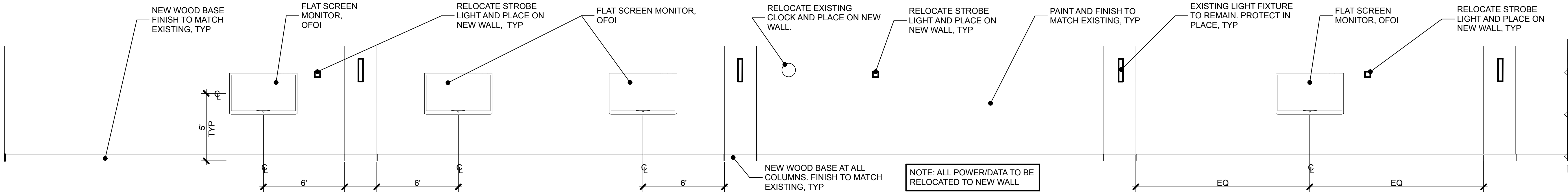


GENERAL NOTES	
1.	ALL DIMENSIONS ARE TAKEN FROM EXISTING CONSTRUCTION AND FROM FACE OF CONCRETE, DRYWALL FINISH, OR CENTER OF COLUMN, UNO. ALL DIMENSIONS TAKEN FROM NEW CONSTRUCTION ARE FROM FACE OF STUD FRAMING, UNLESS NOTED OTHERWISE. CONTRACTOR IS TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
2.	EXISTING SHELL CORE CONDITIONS MAY DIFFER FROM TENANT IMPROVEMENT CONSTRUCTION DOCUMENTS. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
3.	PROVIDE METAL BACKING IN WALL WHERE REQUIRED FOR, FIXTURES, CABINETS, WALL MOUNTED EQUIPMENT, ETC. PER MANUFACTURER REQUIREMENTS.
4.	WALL TYPES ABOVE OPENINGS SHALL MATCH ADJACENT WALL CONSTRUCTION, UNO.
5.	PROVIDE METAL CORNER BEAD AT ALL GYPSUM BOARD CORNERS, TO MATCH EXISTING.
6.	PATCH, REPAIR AND PAINT ALL EXISTING WALLS. PAINT TO MATCH EXISTING TEXTURE AND COLOR.
FLOOR PLAN KEYNOTES	
①	NEW WALL CONSTRUCTION. SEE DETAIL 3/A4.01. CUT CARPET BACK TO ACCOMMODATE NEW WALL.
②	EXISTING COLUMN FRAMING TO REMAIN. PROTECT IN PLACE. REPLACE EXISTING WOOD BASE WITH NEW WOOD BASE. MATCH EXISTING WOOD BASE TYPE AND FINISH/COLOR.
③	NEW FLAT SCREEN MONITOR, OFOI
④	EXISTING ELECTRICAL FLOOR BOX TO REMAIN AND PROTECTED IN PLACE, TYP
⑤	NEW ELECTRICAL FLOOR BOX. SEE ELECTRICAL DRAWINGS
⑥	PRESS READER, SEE DETAILS THIS SHEET



2 LEISURE READING INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"

1 2ND FLOOR ENLARGED FLOOR PLAN  
SCALE: 1/8" = 1'-0"



3 LEISURE READING INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"

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place

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No: 1952  
3/22/16  
ARCHITECT  
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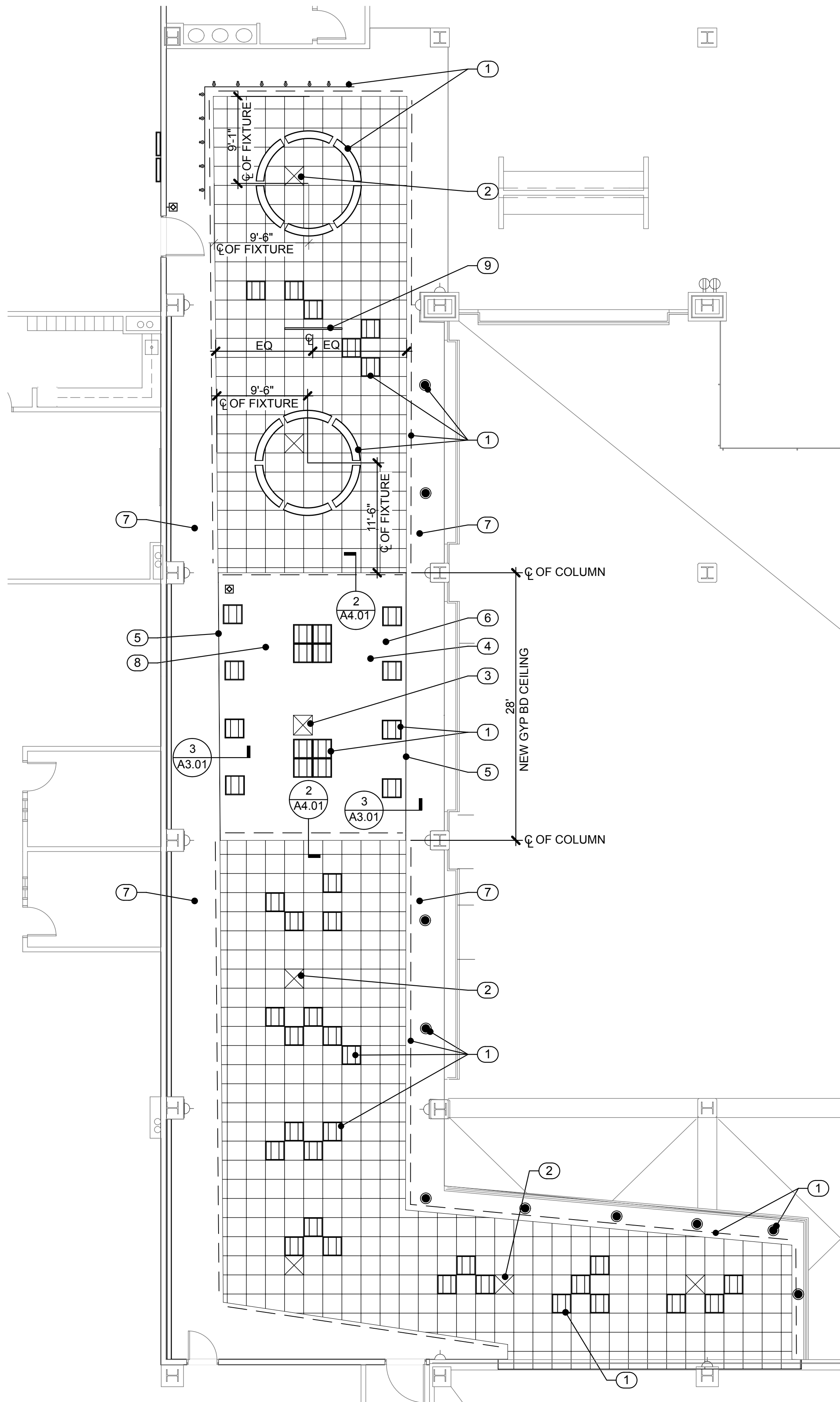
2ND FLOOR ENLARGED  
PLAN AND INTERIOR  
ELEVATIONS

A2.02

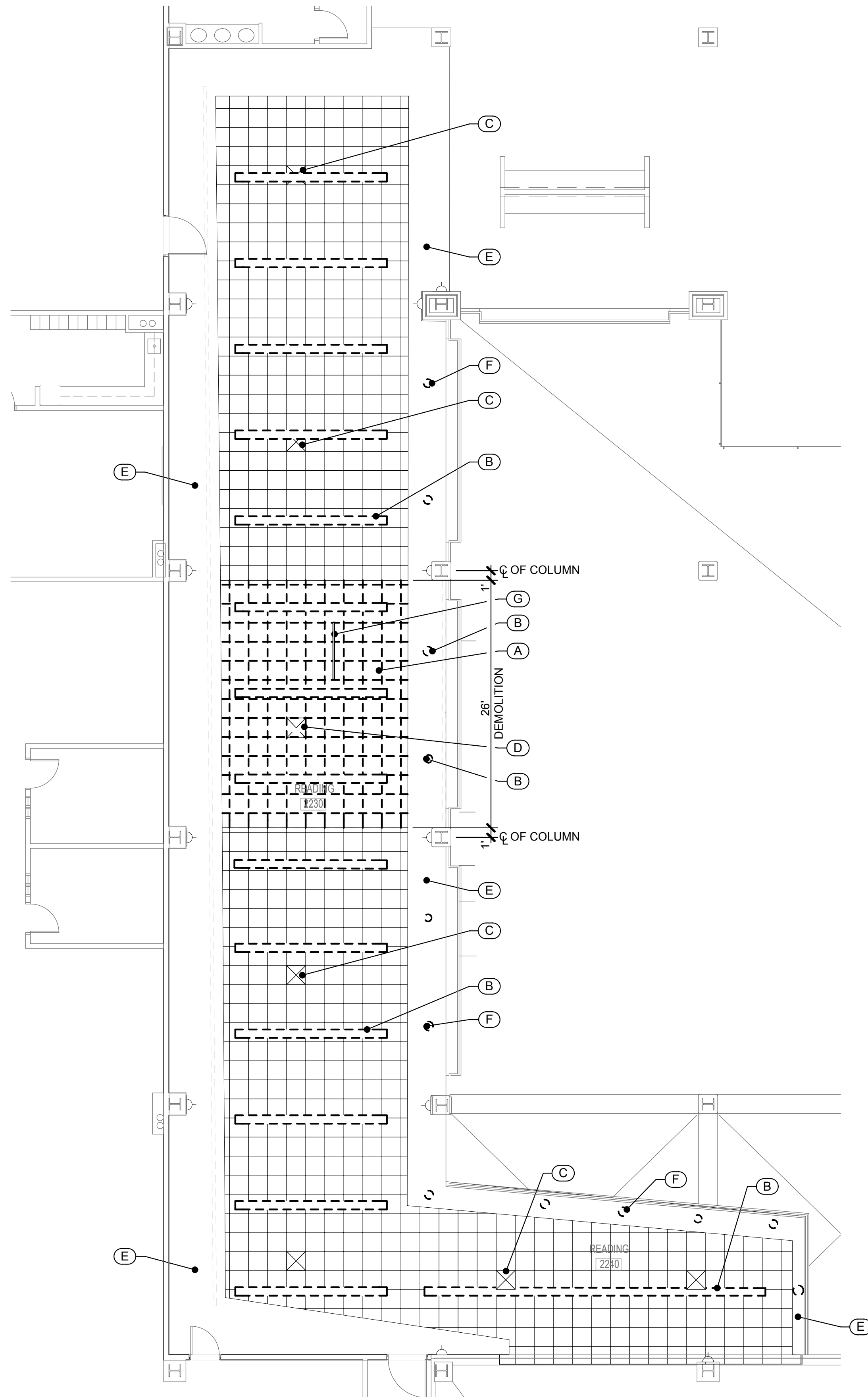
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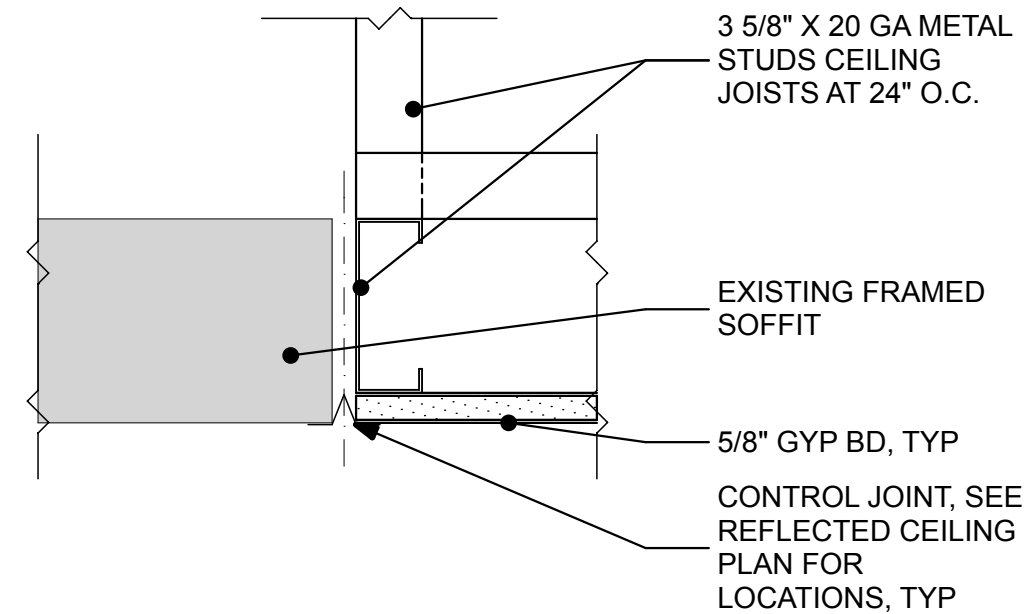


**2** 2ND FLOOR REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"



**1** 2ND FLOOR DEMO REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"

**3** CONTROL JOINT DETAIL  
SCALE: 3" = 1'-0"



## RCP GENERAL NOTES

1. VERIFY QUANTITIES AND SIZES OF ALL ELEC EQPT ON THE RCP WITH THEIR RESPECTIVE DWGS AND SPECS. NOT ALL ELEC EQUIPMENT SHOWN ON RCP.
2. REFER TO ELEC FOR LIGHT FIXTURE SPECIFICATIONS AND EMERGENCY LIGHTING.
3. ALL MECH AND ELEC FIXTURES ARE TO BE LOCATED AS CLOSE AS POSSIBLE TO THE CONFIGURATIONS AND DIMS SHOWN.
4. ALL DIMENSIONS ARE TAKEN FROM THE FACE OF STUD FRAMING, OR CENTER OF COLUMN UNO. VERIFY ALL DIMS IN THE FIELD PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
6. ALL EXPOSED SUSPENDED LIGHTING TO BE HUNG BY CABLES. DO NOT USE HANGERS FOR EXPOSED SUSPENDED ELEC.

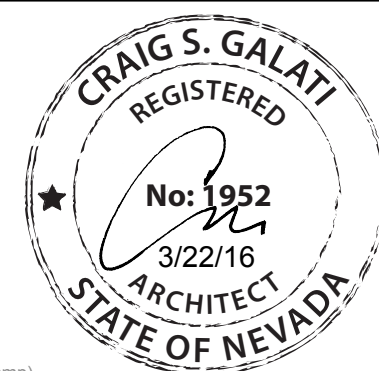
## DEMOLITION RCP KEYNOTES

- (A) REMOVE PORTION OF SUSPENDED ACOUSTIC TILE CEILING
- (B) REMOVE AND SALVAGE EXISTING LIGHT FIXTURE. COORDINATE WITH OWNER.
- (C) EXISTING HVAC DIFFUSER TO REMAIN. PROTECT IN PLACE
- (D) REMOVE EXISTING HVAC DIFFUSER.
- (E) EXISTING GYP BD SOFFIT TO REMAIN. PROTECT IN PLACE
- (F) EXISTING RECESSED DOWNLIGHT TO RECEIVE RETROFIT LIGHT, SEE ELECTRICAL DRAWINGS, TYP
- (G) RELOCATE EXISTING SIGN, SEE 2/A3.01

## RCP KEYNOTES

- ① LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- ② EXISTING HVAC DIFFUSER
- ③ NEW HVAC DIFFUSER
- ④ PROVIDE ACCESS PANELS WHERE NECESSARY TO ACCESS EXISTING EQUIPMENT ABOVE GYP BD SOFFIT
- ⑤ CONTROL JOINT CENTERED ON COLUMN, TYP
- ⑥ FRAMED GYP BD CEILING
- ⑦ EXISTING FRAMED GYP BD CEILING, PROTECT IN PLACE
- ⑧ EXTEND EXISTING SPRINKLER HEADS TO NEW GYP BD CEILING, TYP
- ⑨ RELOCATED SIGN

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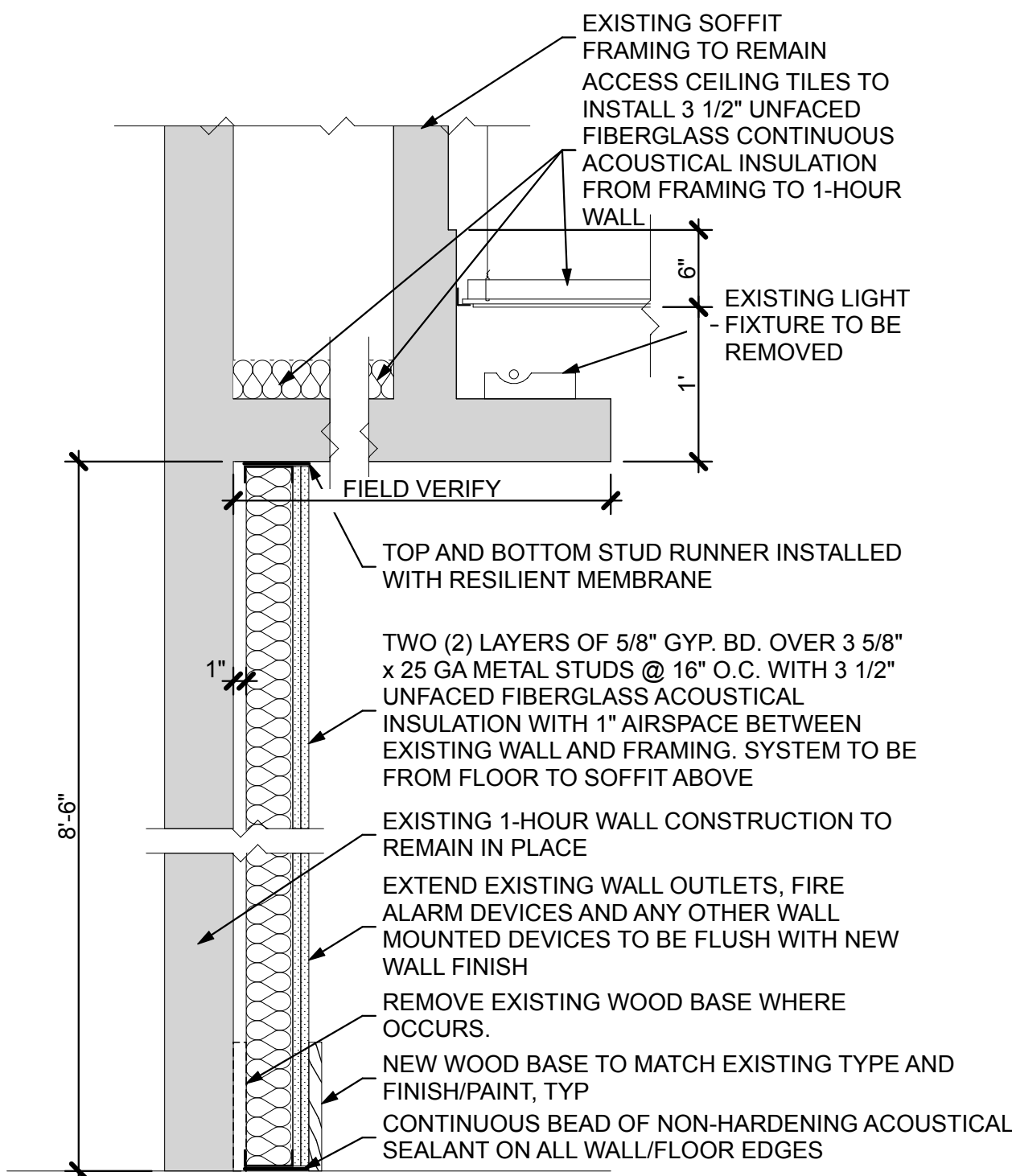
Date of Issue: 03/22/16  
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**2ND FLOOR REFLECTED  
CEILING PLANS**

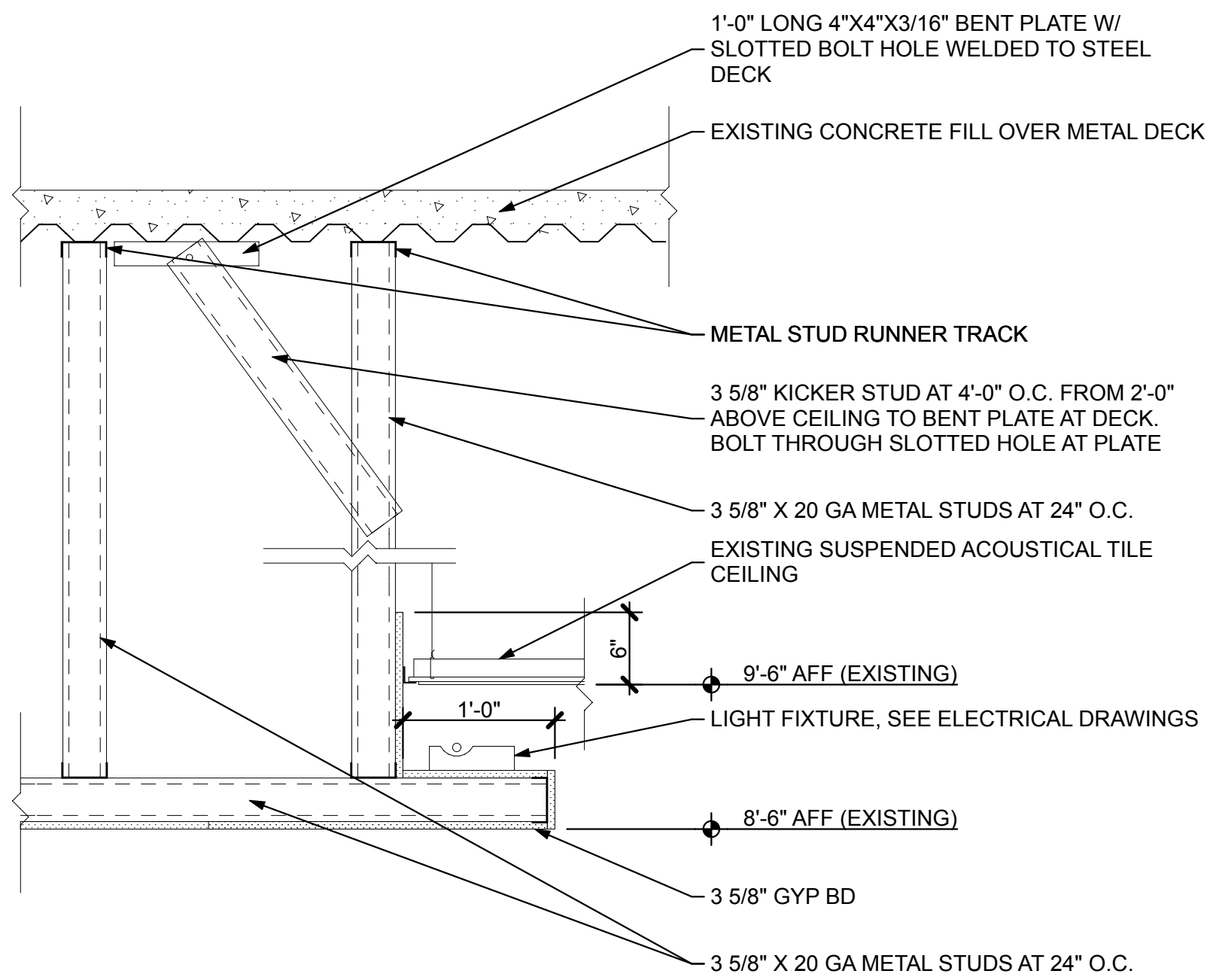
**A3.01**

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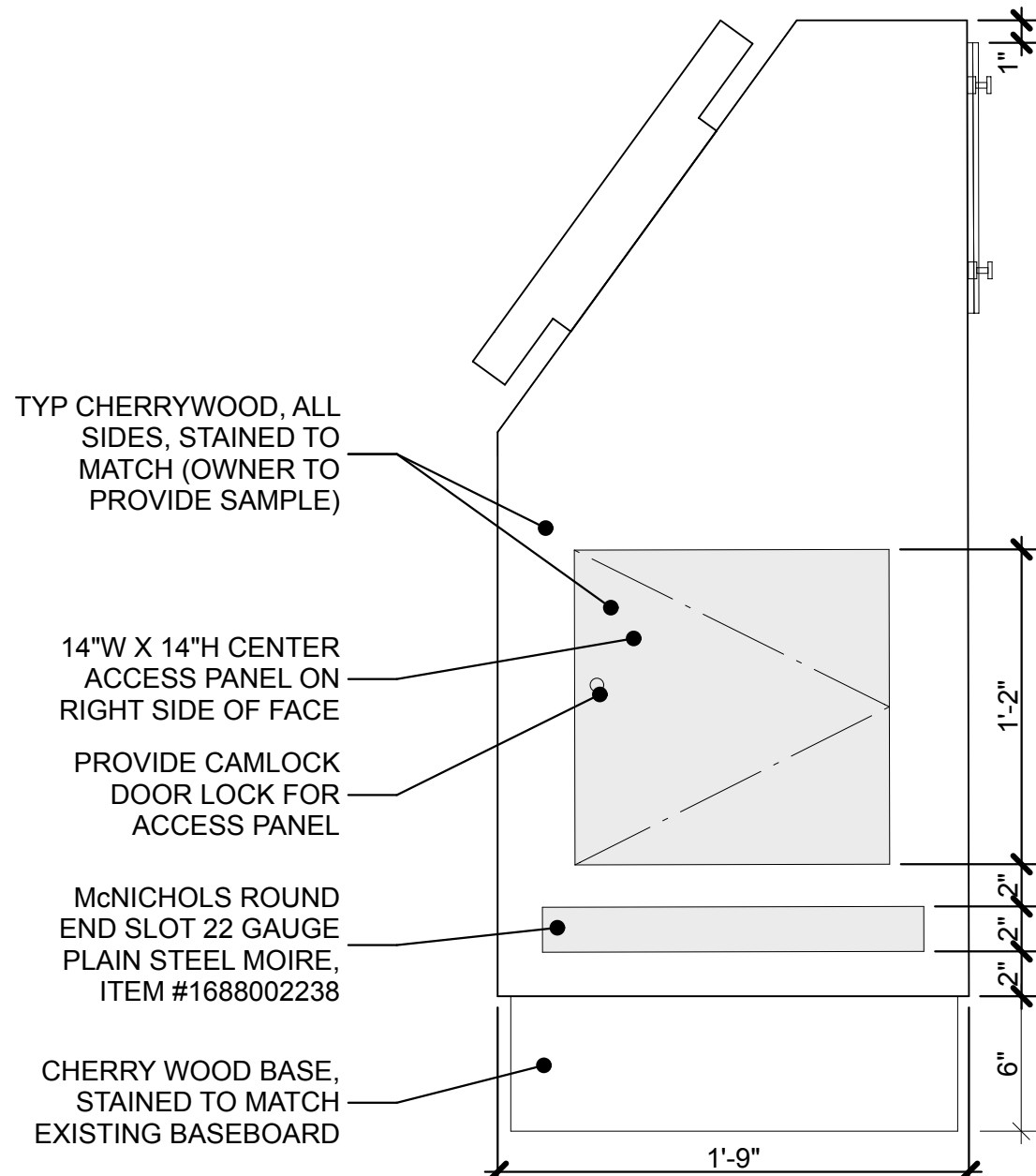




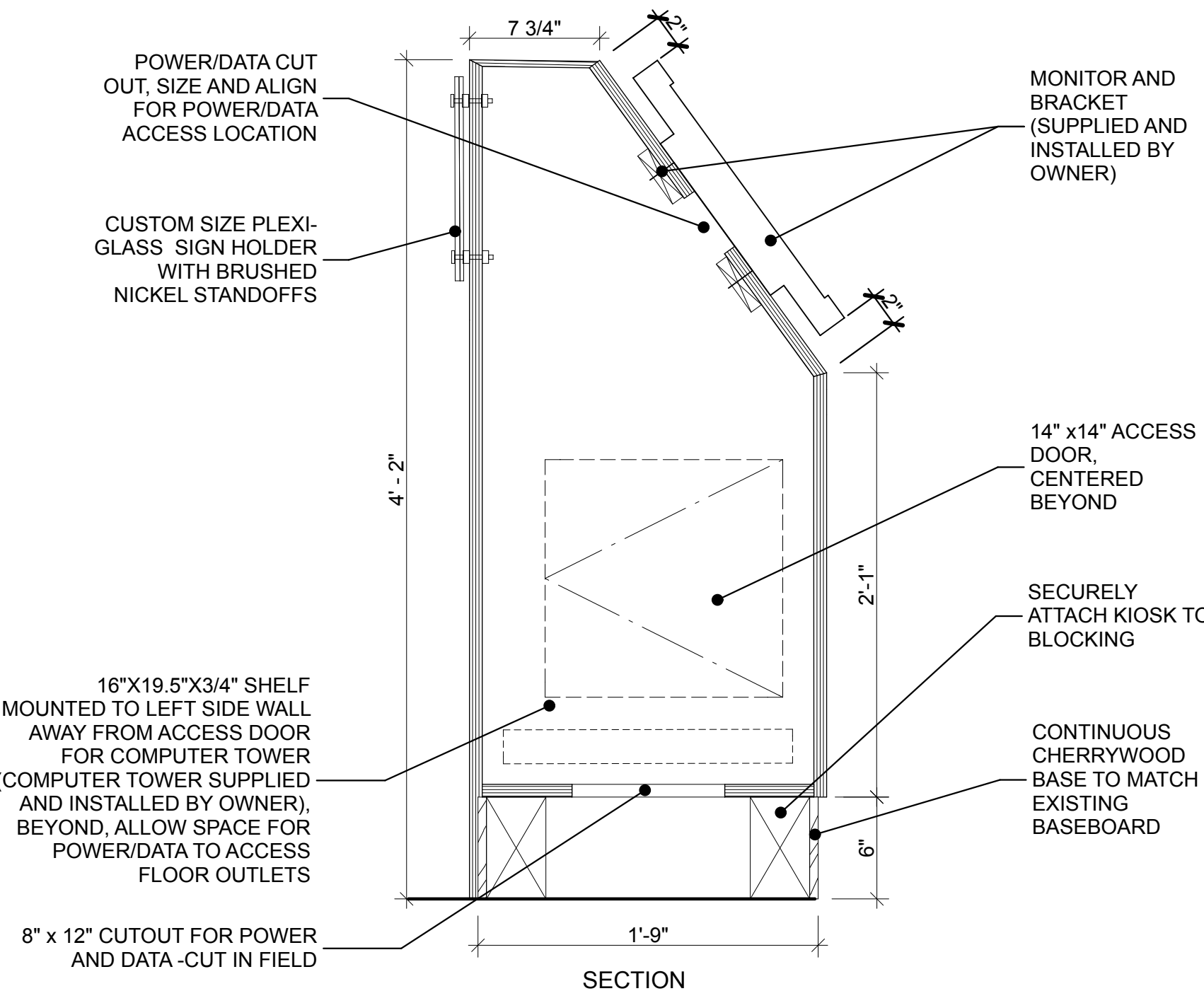
1 WALL SECTION  
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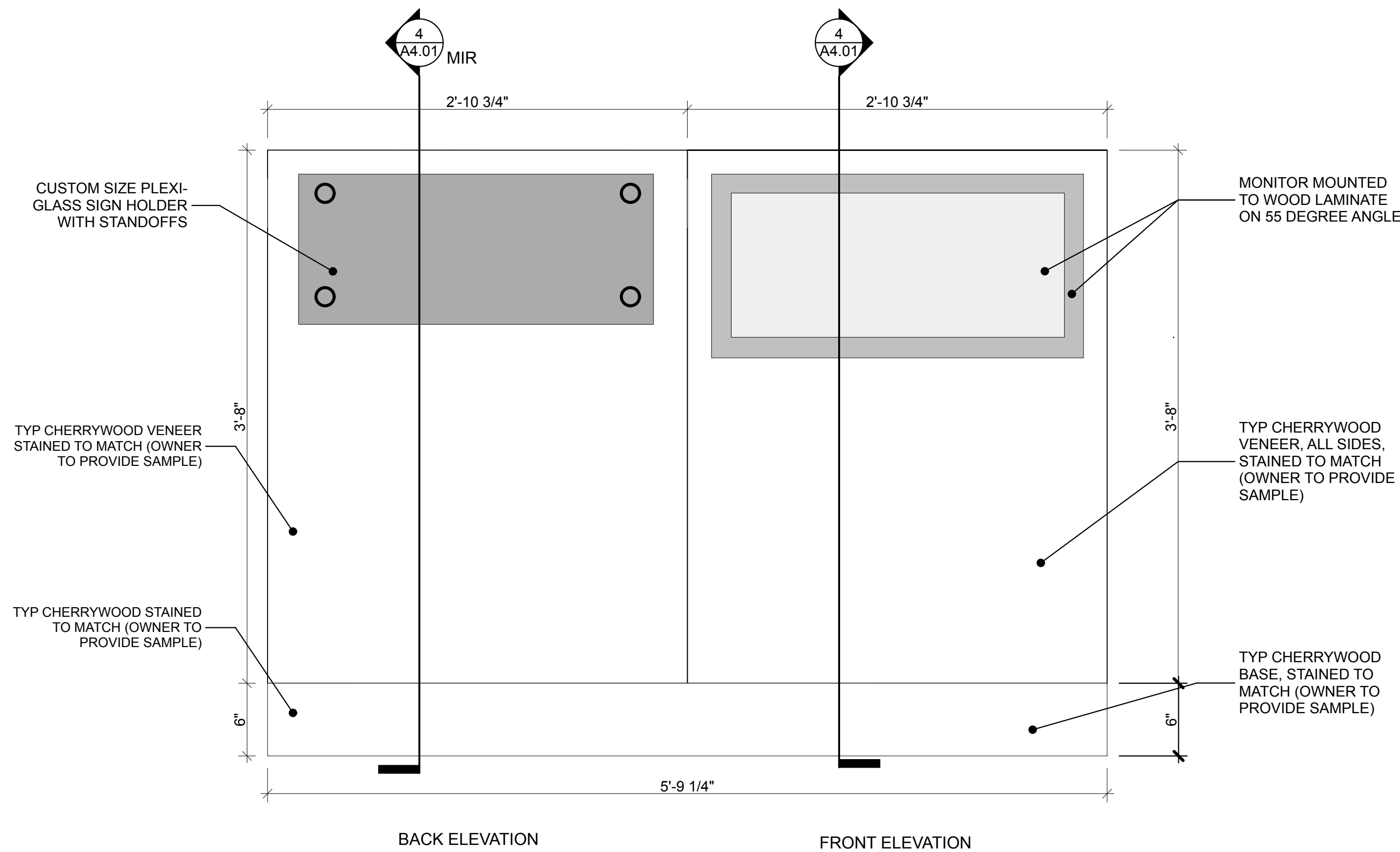
2 CEILING DETAIL  
SCALE: 1" = 1'-0"



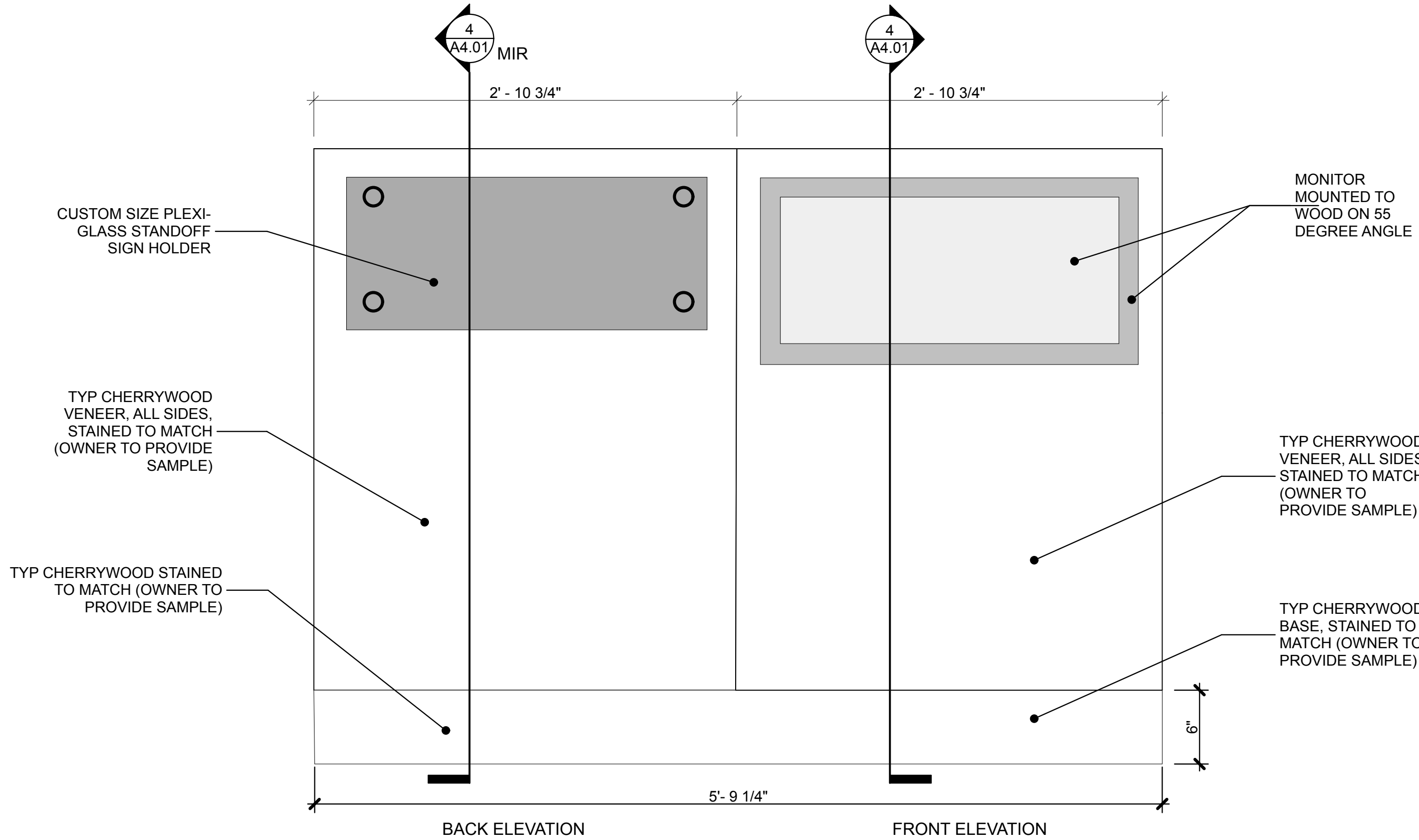
3 PRESS READER  
SCALE: 1 1/2" = 1'-0"



4 PRESS READER  
SCALE: 1 1/2" = 1'-0"



5 PRESS READER  
SCALE: 1 1/2" = 1'-0"



6 PRESS READER  
SCALE: 1 1/2" = 1'-0"



GENERAL NOTES:	
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COST RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON THE OTHER DRAWINGS WILL BE INCURRED BY CONTRACTOR.	27. CONTRACTOR SHALL ENGAGE THE SERVICES FOR A STATE LICENSED FIRE ALARM MANUFACTURER/INSTALLER TO PREPARE ALL DESIGN DRAWINGS AND CALCULATIONS REQUIRED FOR SYSTEM APPROVAL BY THE AUTHORITY HAVING JURISDICTION. SUBMIT ALL PLANS AND PROVIDE ALL PERMITS REQUIRED FOR A COMPLETE AND OPERABLE APPROVED LIFE SAFETY SYSTEM.
2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO ALLOW OTHER METHODS AND MATERIALS NOT REFLECTED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST THE ENGINEER WAIVE THE STANDARDS TO ALLOW ALTERNATE MEANS AND METHODS PRIOR TO BEGINNING THE PROJECT. CONTRACT DOCUMENT REVISIONS TO ACCOMMODATE INSTALLED CONDITIONS, WITHOUT PRIOR APPROVAL, WILL RESULT IN ADDITIONAL DESIGN CHARGES TO THE CONTRACTOR.	28. ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DIAGRAMS THAT CONFORM TO UL LISTING FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS".
3. ELECTRICAL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE NECA INSTALLATION STANDARDS TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.	29. WHERE MOTORS ARE INSTALLED IN SUSPENDED CEILINGS, CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH IN SUSPENDED CEILING WITHIN REACH FROM ACCESS POINT.
4. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF ALL APPLICABLE NATIONAL, STATE AND CITY CODES AND ORDINANCES.	30. VERIFY DEVICE COLOR AND MOUNTING ORIENTATION (VERTICAL OR HORIZONTAL) WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT AND PROVIDE DEVICES AS REQUIRED, UNLESS NOTED OTHERWISE, DEVICES AND DEVICE PLATES SHALL BE WHITE IN COLOR.
5. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY AS ALLOWED BY AUTHORITY HAVING JURISDICTION.	31. PROVIDE TYPED UPDATED PANEL DIRECTORY TO BE MOUNTED ON INSIDE OF ALL PANEL DOOR COVERS. DIRECTORY SHALL REFLECT ALL ADDITIONS OR MODIFICATIONS TO EXISTING PANELS AND SHALL REFLECT ACTUAL "AS-BUILT" CONDITIONS.
6. WHERE AN APPARENT DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF THE GENERAL NOTES AND INFORMATION PORTRAYED IN THE ELECTRICAL DRAWINGS, THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF THE GREATER QUALITY OR QUANTITY.	32. ALL NEW PANELBOARDS AND SWITCHBOARDS SHALL BE OF THE SAME MANUFACTURER AND HAVE LOCKING DOORS AND BE KEYPED THE SAME U.N.O.
7. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID AND VERIFY EXISTING CONDITIONS.	33. UPON COMPLETION OF THE INSTALLATION OF LIFE SAFETY SYSTEM WIRING AND DEVICES, A PERFORMANCE TEST OF THE ENTIRE LIFE SAFETY SHALL BE PERFORMED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
8. CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS REQUIRED FOR PERMITS AND INSPECTIONS.	34. ALL EQUIPMENT ELECTRICAL TERMINATIONS TO UNDERGO A TORQUE TEST. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MANUFACTURER'S RECOMMENDED TORQUE DOCUMENTATION AND TOOLS TO PERFORM TORQUE TEST.
9. CONTRACTOR SHALL VERIFY, WITH OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING BID, ALLOWABLE WORKING HOURS, EMPLOYEE PARKING AREAS, MATERIAL DELIVERY, STORAGE REQUIREMENTS, DEMOLITION AND REMOVAL OF CONSTRUCTION DEBRIS, AS WELL AS DAILY CLEAN UP REQUIREMENTS. INCLUDE ALL COSTS IN BID FOR DUST BARRIERS, DUMPSTERS ETC, AS REQUIRED FOR THE DURATION OF THE PROJECT. PERFORM ALL WORK AS DIRECTED BY OWNER'S REPRESENTATIVE AND ARCHITECT.	35. FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE PAD.
10. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AT NO ADDITIONAL COST TO OWNER.	36. INSTALL TRANSFORMER FOLLOWING MANUFACTURER'S RECOMMENDATIONS FOR VENTILATION CLEARANCES.
11. CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. ALL DEFECTS SHALL BE PROMPTLY CORRECTED BY CONTRACTOR WITHOUT ADDITIONAL COST TO OWNER.	37. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
12. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ACCURATE CONDUIT AND DEVICE LOCATIONS DIMENSIONED FROM PERMANENT LANDMARKS SUCH AS BUILDING WALLS.	38. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT AND ENGINEER AS REQUIRED SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS. REQUESTS FOR SHUTDOWNS SHALL BE SUBMITTED IN WRITING AT LEAST ONE WEEK IN ADVANCE FOR APPROVAL BY THE OWNER.
13. DO NOT SCALE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATION OF ALL DEVICES, JUNCTION BOXES, LIGHTING FIXTURES, ETC. WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ROUGH-IN. EVERY OUTLET HEIGHT SHALL BE VERIFIED ON EACH WALL WITH THE INTERIOR PLANNING AND DESIGN DRAWINGS. COORDINATE WITH CABINET SHOP DRAWINGS TO ENSURE PROPER HEIGHT AND LOCATION WITH RESPECT TO MILLWORK, EQUIPMENT, ETC.	39. ALL EXPOSED RACEWAYS SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
14. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LIGHTING FIXTURES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT, PIPING CONFLICTS, OR OTHER LEGITIMATE REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK INDICATED IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING. UPON APPROVAL, THE WORK SHALL BE PERFORMED AND THE AS-BUILT DRAWINGS SHALL BE REVISED TO ACCURATELY REFLECT THE WORK AS ACTUALLY INSTALLED.	40. THE ELECTRICAL CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY "VALUE ENGINEERING" OF THE MATERIALS, SPECIFICATIONS AND DESIGN OF THIS PROJECT, INCLUDING ANY AND ALL COST FOR ANY REVISIONS TO THE CONTRACT DOCUMENTS REQUIRED AS A RESULT IF THE "VALUE ENGINEERING".
15. ANY VARIANCE OR EXCEPTIONS THE THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING BY THE ENGINEER. WHERE UNAUTHORIZED CHANGES ARE FOUND, THE CONTRACTOR SHALL REMOVE THE INSTALLED WORK AND INSTALL IT AS SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST THE THE OWNER. COST SHALL INCLUDE ANY CUTTING, PATCHING, PAINTING AND REPAIR COST TO INSTALLED CEILINGS, WALLS ETC. AS REQUIRED FOR CORRECTING THE DEFICIENCY.	41. PROPOSED ALTERNATE LIGHT FIXTURES SHALL BE SUBMITTED WITH A PHOTOMETRIC STUDY SHOWING COMPLIANCE WITH ALL APPLICABLE LIGHTING CODES AND ORDINANCES.
16. RACEWAY SYSTEMS ARE SHOWN DIAGRAMMATICALLY. ACTUAL LOCATION AND ROUTING OF ALL, SHALL BE DETERMINED BY CONTRACTOR TO SUIT FIELD CONDITIONS.	42. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE ELECTRICAL SYSTEM SHALL BE THOROUGHLY CLEANED. REMOVE ALL FOREIGN MATERIAL, DUST, PAINT, OIL, GREASE, UNNEEDED LABELS AND STICKERS FROM EQUIPMENTS. REMOVE ALL DEBRIS ACCUMULATED DURING CONSTRUCTION.
17. RACEWAYS SHALL BE INSTALLED CONCEALED WHENEVER POSSIBLE. RACEWAYS INSTALLED EXPOSED (AS APPROVED BY ENGINEER IN WRITING PRIOR TO ROUGH-IN) SHALL BE ROUTED OUT OF PUBLIC VIEW AS MUCH AS POSSIBLE. RACEWAYS SHALL BE RUN PARALLEL WITH, OR AT RIGHT ANGLE TO WALLS.	43. ALL 120V AND 277V DEVICES SHALL HAVE A DEDICATED NEUTRAL.
18. PROVIDE UL APPROVED EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS. PROVIDE BONDING JUMPER(S) SIZED PER CODE WHERE REQUIRED. PROVIDE ALL FITTINGS REQUIRED FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATION(S).	
19. CONTRACTOR SHALL PROVIDE ALL RACEWAY SYSTEMS INDICATED ON THE DRAWING PER NEC REQUIREMENTS AND GENERAL NOTES. ANY DEVIATION FROM THE WIRING METHODS INDICATED SHALL BE ALLOWED ONLY BY SPECIFIC WRITTEN APPROVAL FROM EITHER THE ARCHITECT, ENGINEER OR OWNER. CONTRACTOR'S BID SHALL INCLUDE ALL COSTS FOR RACEWAY SYSTEMS AS SPECIFIED UNLESS SPECIFIC WRITTEN APPROVAL FOR AN ALTERNATIVE WIRING METHOD IS OBTAINED FROM EITHER THE ARCHITECT, ENGINEER OR OWNER AND IS SUBMITTED AS PART OF CONTRACTOR'S FORMAL BID PROPOSAL.	
20. PRIOR TO INSTALLATION, CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR CONFLICTS WITH OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICT DURING INSTALLATION. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN EQUIPMENT LOCATION AND ROUTING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.	
21. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS THE EXISTING WORK AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT.	
22. ALL ELECTRICAL EQUIPMENT SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE QUANTITY AND SIZE OF CONDUCTORS REQUIRED. CONTRACTORS SHALL PROVIDE EQUIPMENT WITH OVERSIZED ENCLOSURES WHERE REQUIRED.	
23. COORDINATE ELECTRICAL REQUIREMENTS FOR ALL PLUMBING AND MECHANICAL EQUIPMENT WITH FINAL CONTRACTOR SELECTION. THE CONTRACTOR SHALL SIZE DISCONNECTS BASED UPON CIRCUIT BREAKER RATINGS AND PROVIDE FUSING AS REQUIRED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS AND U.L. LISTING REQUIREMENT	
24. SIZING OF MOTOR-RELATED ELECTRICAL COMPONENTS, INCLUDING FEEDER AND/ OR BRANCH CIRCUITS (WIRE AND CONDUIT) AND OVERCURRENT PROTECTION (BREAKER AND/ OR FUSES) IS BASED ON RATINGS INDICATED IN THE CONTRACT DOCUMENTS AS WELL AS NEC APPROXIMATED LOADS FOR A GIVEN MOTOR, HORSEPOWER, VOLTAGE AND PHASE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL MOTOR AND APPLIANCE RATING AND LOADS. CONTRACTOR TO PROVIDE CORRECTLY SIZED MOTOR OVERLOAD ELECTRICAL COMPONENTS BASED ON NAMEPLATE RATING. REFLECT ALL CHANGES IN THE AS-BUILT DRAWINGS.	
25. THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN, SHALL VERIFY ALL HVAC AMPERAGES, PHASES AND VOLTAGES AGAINST PLAN REQUIREMENTS AND NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES. FAILURE TO VERIFY AND NOTIFY ENGINEER/ARCHITECT PRIOR TO ROUGH-IN SHALL RESULT IN THE ELECTRICAL CONTRACTOR ASSUMING RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.	
26. THE ELECTRICAL CONTRACTOR SHALL INSURE FINAL COORDINATION OF THE MANUFACTURERS RECOMMENDED FUSE SIZES FOR THE INSTALLED MECHANICAL EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF MECHANICAL EQUIPMENT HAVE IMPACTED DISCONNECT SWITCH, BREAKER, OR CONDUCTOR SIZES.	

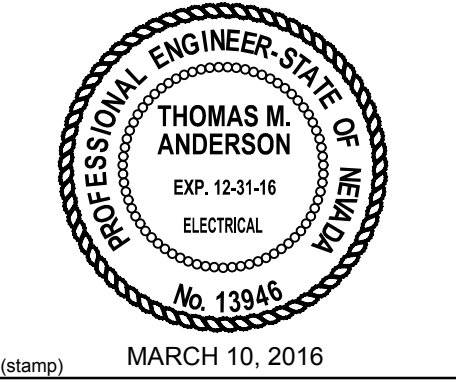
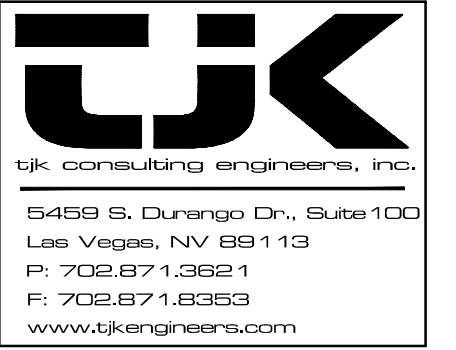
SHEET INDEX	
SHEET NUMBER	SHEET TITLE
EG1.01	ELECTRICAL LEGEND, ABBREVIATIONS SHEET INDEX
EG1.02	ELECTRICAL SPECIFICATIONS
ED1.01	DEMOLITION PLAN SECOND FLOOR
E1.01	LIGHTING PLAN SECOND FLOOR
E2.01	POWER PLAN SECOND FLOOR
E3.01	COMMUNICATIONS PLAN SECOND FLOOR
E4.01	ELECTRICAL DETAILS
E5.01	ONE LINE DIAGRAM & SCHEDULES

ELECTRICAL LEGEND:							
EXISTING	DEMOLITION	NEW	DEFINITION	EXISTING	DEMOLITION	NEW	DEFINITION
			PANELBOARD SURFACE MOUNTED				CONDUIT SEALING FITTING ( USED FOR CLARITY ONLY)
			PANELBOARD FLUSH MOUNTED				FUSE
			SWITCHBOARD				CIRCUIT BREAKER
			TERMINAL CABINET				TRANSFORMER
			MOTOR STARTER				KILOWATT HOUR DEMAND METER
			COMBINATION MOTOR STARTER				TRANSFORMER
			DISCONNECT SWITCH "F" INDICATES FUSIBLE				MOTOR OUTLET
			DISCONNECT SWITCH VENDOR FURNISHED				GENERATOR
			CONTACTOR				GROUND ROD
			COMBINATION MOTOR STARTER VENDOR FURNISHED				SOLENOID VALVE
			DISCONNECT SWITCH "F" INDICATES FUSIBLE				SPEAKER
			DISCONNECT SWITCH VENDOR FURNISHED				MOTION DETECTOR
			CONTACTOR				CCTV SURVEILLANCE CAMERA OUTLET
			CONTACTOR VENDOR FURNISHED				TELEVISION ANTENNA OUTLET
			TELEPHONE TERMINAL BOARD 4 X 8 X 3/4" FIRE TREATED PLYWOOD				PULL STATION
			TELEPHONE TERMINAL CABINET				FLOW SWITCH
			FLUORESCENT FIXTURE - LETTER DENOTES TYPE (LOWER CASE LETTER DENOTES SWITCHING), NUMBER DENOTES CIRCUIT				TAMPER SWITCH
			WALL MOUNTED FIXTURE (FLUORESCENT SHOWN) - LETTER DENOTES TYPE				HORN
			HID OR INCANDESCENT FIXTURE - LETTER DENOTES TYPE				HORN / STROBE
			FLUORESCENT STRIP FIXTURE - LETTER DENOTES TYPE				STROBE
			TRACK LIGHTING - LETTER DENOTES TYPE				FIRE ALARM CONTROL PANEL
			EMERGENCY LIGHTING UNIT - LETTER DENOTES TYPE				FIRE ALARM ANNUNCIATOR
			EXIT FIXTURE - SHADED AREA DENOTES LIGHTED FACE, ARROWS DENOTE DIRECTION - LETTER DENOTES TYPE				DOOR HOLDER
			EMERGENCY OR NIGHT LIGHT CONNECTED FIXTURE (FLUORESCENT SHOWN) - LETTER DENOTES TYPE				SMOKE DETECTOR LETTER (X) INDICATES TYPE.
			POLE MOUNTED HID AREA LIGHT - LETTER DENOTES TYPE				D DUCT MOUNT
			SPORTS FIELD POLE ASSEMBLY				I IONIZATION
			SINGLE RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE				P PHOTOELECTRIC
			DUPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE				HEAT DETECTOR LETTER (X) INDICATES TYPE.
			FLOOR MOUNTED DUPLEX RECEPTACLE				R RATE OF RISE
			QUADRUPLEX RECEPTACLE 18" AFF UNO				F FIE TEMPERATURE
			ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE AT 18" AFF UNO.				FIREMAN PHONE
			ISOLATED GROUND TYPE (ORANGE) QUADRUPLEX RECEPTACLE AT 18" AFF UNO.				SMOKE /FIRE DAMPER
			COUNTER HEIGHT RECEPTACLE (VERIFY HEIGHT)				CONTROL DEVICE: LETTERS INDICATE TYPE: FLS = FLOAT SWITCH, FS = FLOW SWITCH FTS = FOOT SWITCH, LS = LIMIT SWITCH PE = PNEUMATIC SWITCH, PS = PRESSURE SWITCH TS = TEMPERATURE SWITCH
			SWITCHED DUPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE				THERMOSTAT
			ELECTRIC SHEET NOTE DESIGNATION				JUNCTION BOX (USED FOR CLARITY ONLY)
			MECHANICAL EQUIPMENT CROSS REFERENCE				AMMETER
			SPECIAL PURPOSE RECEPTACLE - NUMBER REFERS TO RECEPTACLE SCHEDULE				AMMETER SWITCH
			CLOCK OUTLET				VOLTMETER
			MULTIOUTLET ASSEMBLY - ARROW HEADS INDICATE EXTENT, NUMBERS INDICATE SPACING IN INCHES				VOLTMETER SWITCH
			SINGLE POLE SWITCH 48" AFF UNO				RELAY OR CONTROL DEVICE. NUMBER REPRESENTS STANDARD DEVICE FUNCTION
			THREE WAY SWITCH 48" AFF UNO				SHUNT TRIP
			FOUR WAY SWITCH 48" AFF UNO				GROUND FAULT INTERRUPTER
			KEY OPERATED SWITCH				
			DIMMER OPERATED SWITCH				
			SWITCH WITH PILOT LIGHT				
			MOTION SENSING SWITCH				
			CONTROL STATION				
			TELEPHONE OUTLET 18" AFF UNO				
			PAY TELEPHONE OUTLET 48" AFF UNO				
			FLOOR MOUNTED TELEPHONE OUTLET				
			COMPUTER OUTLET OR SPECIAL PURPOSE COMMUNICATIONS				
			RADIO OUTLET				
			PHOTOELECTRIC CELL				
			TIME CLOCK				
			BRANCH CIRCUIT CONSISTING OF 2#12 IN MINIMUM SIZE CONDUIT NOT INCLUDING GROUND WIRE				
			HOME RUN TO PANELBOARD OR DEVICE - NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS				
			BRANCH CIRCUIT - SHORT SLASHES INDICATE NUMBER OF PHASE OR SWITCH LEGS, LONG SLASHES INDICATE NUMBER OF NEUTRALS, LONG SLASH W/ A DOT INDICATES A SEPARATE ISOLATED GROUND WIRE.				
			CONDUIT IN SLAB OR UNDERGROUND				

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	J-BOX	JUNCTION BOX
AFG	ABOVE FINISHED GRADE	KVA	KILOVOLT AMPS
AL	ALUMINUM	KW	KILOWATT
BKR	BREAKER	LTG	LIGHTING
C	CONDUIT	NTS	NOT TO SCALE
CKT	CIRCUIT	PNL	PANEL
C.O.	CONDUIT ONLY	PWR	POWER
CU	COPPER	TYP	TYPICAL
DWG	DRAWING	UNO	UNLESS NOTED OTHERWISE
ELEC	ELECTRICAL	V	VOLTS
EXT	EXISTING	VA	VOLT AMPS
GFI	GROUND FAULT INTERRUPT	WP	WEATHER PROOF
GND	GROUND	XFMR	TRANSFORMER

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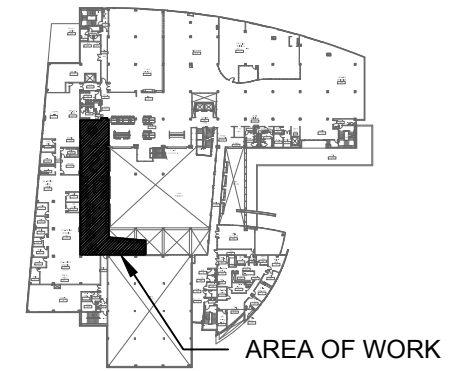
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# ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS  
SECTION 16000  
PROJECT NUMBER 15096

PART 1 - GENERAL REQUIREMENTS:

1.1 DESCRIPTION

A SCOPE: THE ELECTRICAL WORK CONSISTS OF FURNISHING EVERYTHING NECESSARY FOR AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK INDICATED ON THE DRAWINGS AND SPECIFIED BELOW INCLUDING BUT NOT LIMITED TO:

1. ELECTRICAL PANELS, CONTROLS SERVICE, DISCONNECTS, CONDUITS, WIRING, ETC. FOR ALL OUTLETS AND EQUIPMENT.
2. TELEPHONE / DATA OUTLETS AND CONDUIT AS INDICATED.
3. CONTROL WIRING FOR ELECTRICAL AND HVAC SYSTEMS.
4. TRANSFORMER PAD AND PRIMARY CONDUIT SYSTEM TO POINT OF CONNECTION WITH POWER COMPANY.

B THE DRAWINGS ARE DIAGRAMMATIC UNLESS INDICATED OTHERWISE. THE DRAWINGS REFLECT CIRCUITING ONLY AND ARE NOT DEPICTING EXACT CONDUIT ROUTING UNLESS SPECIFICALLY NOTED OTHER WISE.

1. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL AND LIGHTING DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN, DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS.

C EXAMINE ALL DRAWINGS FOR WORK REQUIRED BY THIS SUBCONTRACTOR.

1.2 CODES

A ALL WORK SHALL BE IN ACCORDANCE WITH THE NEC AND LOCAL GOVERNING CODES.

1. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE SERVING POWER AND TELEPHONE COMPANIES.
2. ALL OFF SITE WORK SHALL BE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS FOR CLARK COUNTY AREA.
3. FOR THE REQUIREMENTS ON ROUTING AND SUPPORT OF ALL LOW VOLTAGE CABLE REFER TO THE SPECIFICATION HERE ([http://oit.unlv.edu/sites/default/files/campus\\_wiring\\_standards\\_8-26-15\\_1.pdf](http://oit.unlv.edu/sites/default/files/campus_wiring_standards_8-26-15_1.pdf))

1.3 SUBSTITUTIONS

A CONTRACTOR'S BID PRICE SHALL REFLECT THE COSTS OF ALL MATERIALS AS SPECIFIED. NO PRIOR APPROVAL OF MATERIALS WILL BE GIVEN PRIOR TO AWARD OF BID. ALL SWITCHGEAR AND PANELBOARDS SHALL BE FURNISHED BY A SINGLE MANUFACTURER.

B SUBSTITUTIONS OF EQUAL QUALITY AND OF BENEFIT TO THE OWNER WILL BE EVALUATED AT THE CONTRACTOR'S REQUEST. ANY ADDITIONAL COST TO THE OWNER FOR REVIEW OF SUBSTITUTIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

C AFTER REVIEW OF SUBSTITUTES, THE DECISION OF THE ENGINEER IN DETERMINING EQUAL MATERIALS WILL BE FINAL.

1.4 SUBMITTALS

A PROVIDE SUBMITTALS FOR THE FOLLOWING EQUIPMENT:

1. WIRING DEVICES
2. CIRCUIT BREAKERS

B SHOP DRAWINGS AND APPROVALS

1. THE CONTRACTOR SHALL SUBMIT SIX (6) IDENTICALLY BOUND SETS OF SHOP DRAWINGS ON THE FOLLOWING ITEMS:
  - a. OUTLINE DRAWINGS AND DATA SHEETS OF EACH CIRCUIT BREAKER, DISCONNECT, TRANSFER SWITCH, GENERATOR, TRANSFORMER, PANEL BOARD, AND SWITCHBOARD.
  - 1) HIGHLIGHT SERVICE CONDITIONS OF EQUIPMENT AND THE APPROPRIATE DERATING TO MEET 2.1.B.
  - b. DATA SHEETS OF ALL WIRING DEVICES, LIGHTING FIXTURES, AND FUSES.

1.5 QUALITY ASSURANCE

A ALL WORK SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH NECA STANDARDS.

B ALL WORK SHALL BE SUBJECT TO INSPECTION AND POSSIBLE REJECTION IF NOT IN ACCORDANCE WITH THESE SPECIFICATIONS, THE DRAWINGS, AND INSTALLED IN NEAT AND WORKMANLIKE MANNER.

C ANY REJECTED WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

PART 2 - PRODUCTS:

2.1 MATERIAL AND EQUIPMENT

A MATERIAL AND EQUIPMENT SHALL BE NEW AND OF CURRENT PRODUCTION BY MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF SUCH ITEMS. ELECTRICAL SWITCHGEAR AND COMPONENTS SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. ALL MATERIAL SHALL BE UL LISTED.

B SERVICE CONDITIONS

1. ALTITUDE- 2100 FEET
2. TEMPERATURE
  - a. INDOOR - 40 DEGREE C (100 DEGREE F)
  - b. OUTDOOR - 60 DEGREE C (140 DEGREE F)

C CONDUITS

1. INTERIOR CONDUIT SHALL BE EMT WITH COMPRESSION OR SET SCREW FITTINGS.
2. FMC SHALL BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES NOT TO EXCEED 72 INCHES.
  - a. FNC OR ALUMINUM FMC SHALL NOT BE USED.
  - b. FMC SHALL NOT BE USED EXCEPT AS NOTED ABOVE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. MC CABLE MAY NOT BE USED.
6. CONDUIT FITTINGS SHALL BE STEEL OR MALLEABLE IRON TYPE.

D CABLE

1. CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEGREE WIRE.
2. CONDUCTORS SHALL BE COPPER.
3. MINIMUM WIRE SIZE SHALL BE #12 AWG.
  - a. 120V BRANCH CIRCUITS OVER 65 FEET IN LENGTH FROM THE CENTER OF THE LOAD TO THE PANEL SHALL BE #10 AWG AND BRANCH CIRCUITS OVER 130 FEET SHALL BE #8 AWG. INCREASE CONDUIT AND WIRE SIZES AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
4. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE WHITE (120V) OR GRAY (277V) AND PHASE WIRES SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C) FOR A 120/208 VOLT SYSTEM AND BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C) FOR A 277/480 VOLT SYSTEM.

E WIRING DEVICES

1. WIRING DEVICES SHALL BE AS FOLLOWS:
  - a. RECEPTACLES - 120V, 20A, NEMA 5-20R, SPECIFICATION GRADE, SIDE AND BACK WIRED WITH CLAMP TYPE TERMINALS, NYLON, WHITE, 2 POLE, 3 WIRE GROUNDING.
  - 1) PROVIDE GRAY COLOR FOR COMPUTER OUTLETS.
2. DEVICE PLATES SHALL BE NYLON, COLOR SHALL MATCH DEVICE WITH MATCHING SCREWS.

G SAFETY SWITCHES SHALL BE GENERAL DUTY TYPE, NEMA 1 INDOOR AND NEMA 3R OUTDOOR.

H OVERCURRENT PROTECTION DEVICES:

1. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURES AS PANELBOARDS AND SWITCHBOARDS. PROVIDE BREAKERS AS NOTED ON THE SCHEDULE.
2. FUSES USED TO PROTECT MOTORS SHALL BE BUSSMAN TYPE FRN-R. ALL FUSES INSTALLED IN FUSED DISCONNECTS SHALL BE CLASS R UNLESS NOTED OTHERWISE.
3. PROVIDE HACR RATED BREAKERS FOR MECHANICAL EQUIPMENT.

I PROVIDE GROUNDING FOR ALL BRANCH CIRCUITS. CONDUIT, LISTED FOR USE, MAY BE USED FOR GROUNDING FOR 20A BRANCH CIRCUITS ONLY WHEN APPROVED FOR SUCH USE. ALL FMC AND NON-METALLIC CONDUIT SHALL HAVE A SEPARATE GROUND WIRE.

J OUTLET, PULL AND JUNCTION BOXES

1. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED WITH A CODE GAUGE, GALVANIZED STEEL OUTLET BOX. JUNCTION AND PULLBOXES SHALL BE CODE GAUGE, GALVANIZED STEEL. OUTLET BOXES SHALL BE OF THE ONE PIECE, KNOCKOUT TYPE, IN GENERAL 4" SQUARE WITH PLASTER RING. PLASTER RINGS SHALL BE SET TO PROVIDE NOT MORE THAN 1/8" FROM WALL SURFACE TO RING. IN NO CASE SHALL PLASTER RING PROJECT BEYOND SURFACE OF WALL. SINGLE GANG RINGS SIMILAR TO STEEL CITY 52-C-50 SHALL BE USED FOR 4" BOXES IN UNFINISHED BRICK. RACO 3180 BOXES MAY BE USED FOR UNFINISHED MASONRY FLUSH WALL OUTLETS. CENTER ALL OUTLET BOXES IN BLOCK COURSE AND PROVIDE A SMOOTH FINISH BLOCK AT OUTLET LOCATIONS.
2. BOXES INSTALLED FOR TELEPHONE, ALARM, COMPUTER AND SECURITY SYSTEMS SHALL BE PROVIDED WITH APPROPRIATE COVERPLATES.

PART 3 - EXECUTION

3.1 INSTALLATION

A EQUIPMENT LOCATIONS SHALL BE AS CLOSE AS PRACTICAL TO LOCATIONS SHOWN ON THE PLAN DRAWINGS AND SUBJECT TO SUCH APPROVED REVISIONS AT NO COST TO THE OWNER AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME WORK IS INSTALLED.

B CLOSE ALL OPENINGS IN WALLS, FLOORS, AND ROOFS TO THE APPROVAL OF THE ARCHITECT.

C PAINT ALL CONDUITS AND BOXES THAT ARE REQUIRED TO BE EXPOSED TO MATCH BUILDING SURFACES. RUN ALL EXPOSED CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES.

D PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL EQUIPMENT AND INSTALL TYPED DIRECTORY IN PANELBOARDS. FASTEN NAMEPLATES WITH SCREWS OR RIVETS, DO NOT USE ADHESIVE.

E COORDINATE THE WORK WITH OTHER TRADES.

F MEGGER TEST ALL FEEDER CIRCUITS AFTER INSTALLATION.

G INSTALL 200 POUND TEST PULL NYLON PULL CORD IN ALL SIGNAL AND COMMUNICATION CONDUITS.

H INSTALL SWITCHES AT 48" AFF AND RECEPTACLES AT 18" AFF UNLESS NOTED OTHERWISE.

I PANELBOARDS SHALL BE INSTALLED WITH THE TOP OF THE CABINET 6'-0" AFF.

J CONDUITS AND OUTLETS SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE; EXCEPT THAT CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS. CONDUIT AND OUTLETS SHOWN TO BE INSTALLED IN CABINETS, COUNTERS, AND CASEWORK SHALL BE RUN OR INSTALLED AS DIRECTED BY THE ARCHITECT.

L PATCH AND REPAIR AREA WHERE ITEMS HAVE BEEN DEMOLISHED OR DAMAGED DURING CONSTRUCTION TO MATCH ADJACENT SURFACES TO OWNER'S APPROVAL.

N CONDUITS PENETRATING FLOOR SLABS SHALL BE INSTALLED A MINIMUM OF 2" AFF.

O LABEL ALL SPARE CONDUITS/PULLSTRINGS AT BOTH ENDS WITH IDENTIFICATION OF LOCATION AT THE OPPOSITE END.

P A COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.

Q REQUEST INSPECTIONS FROM LOCAL GOVERNING AUTHORITIES.

3.2 PROJECT COMPLETION

A REMOVE ALL DISCARDED MATERIALS FROM DEMOLITION AND INSTALLATION FROM THE JOB SITE.

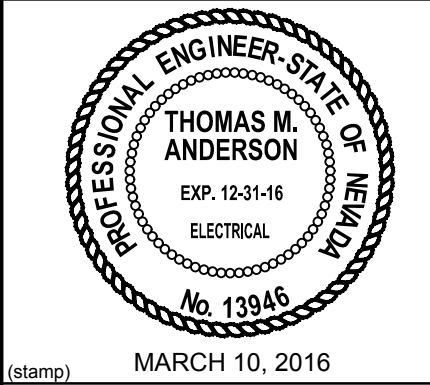
B PROVIDE REPRODUCIBLE RECORD DRAWINGS OF ALL COMPLETED WORK.

C GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK, ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD AT NO ADDITIONAL EXPENSE TO THE OWNER.

"END OF SECTION"

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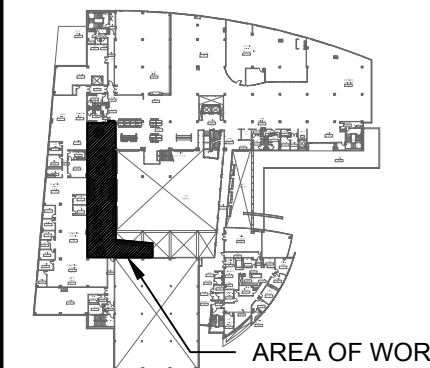
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Project No.: 0071-15-002  
File: 007115002 UNLV LEISURE READING  
Drawn By: TJK  
Checked By: TA

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3D View:

Key Plan:



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ELECTRICAL SPECIFICATIONS

EG1.02

All dimensions and on-site conditions are to be verified by the Subcontractors before starting their work. Report any discrepancies to the General Contractor.



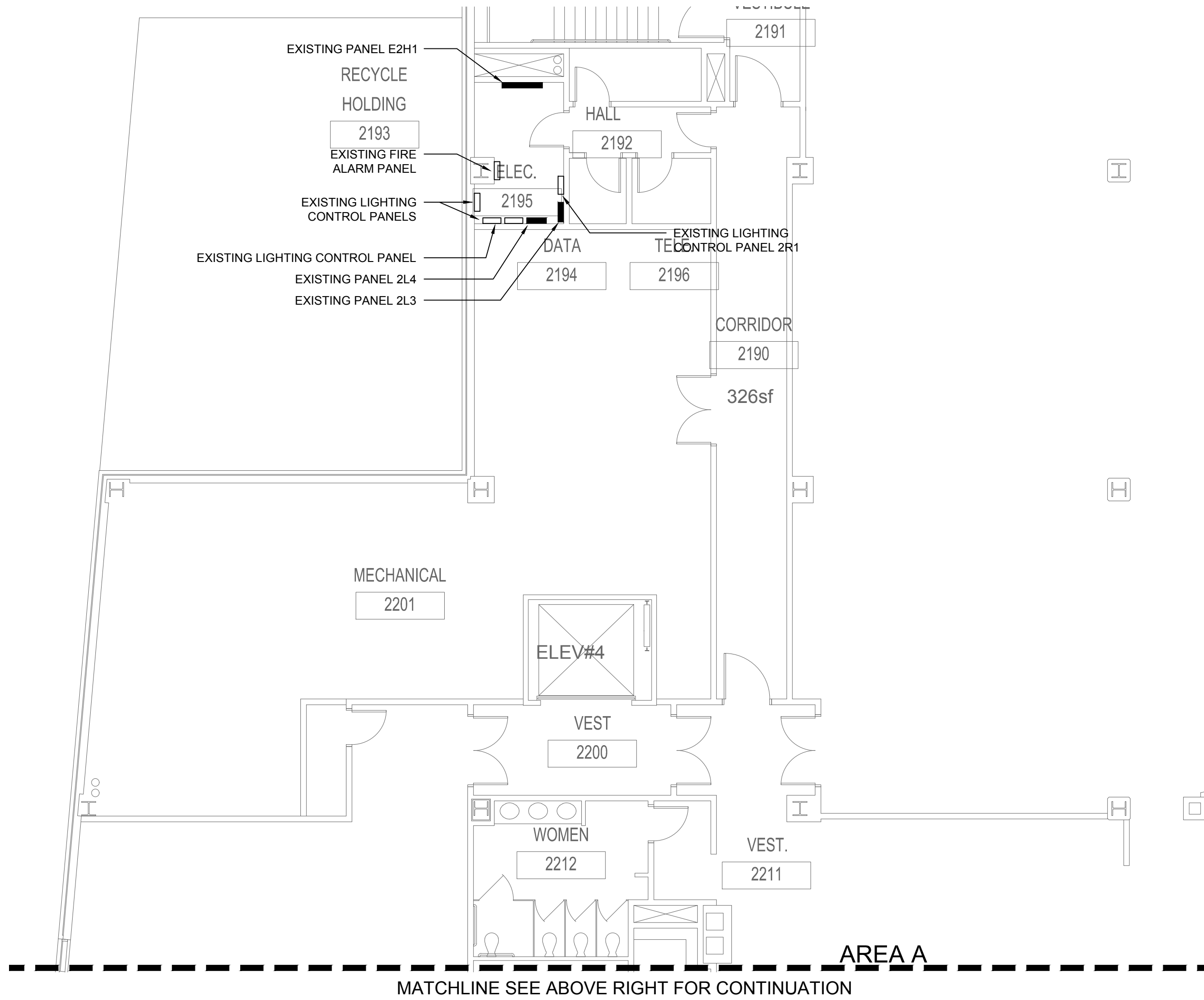




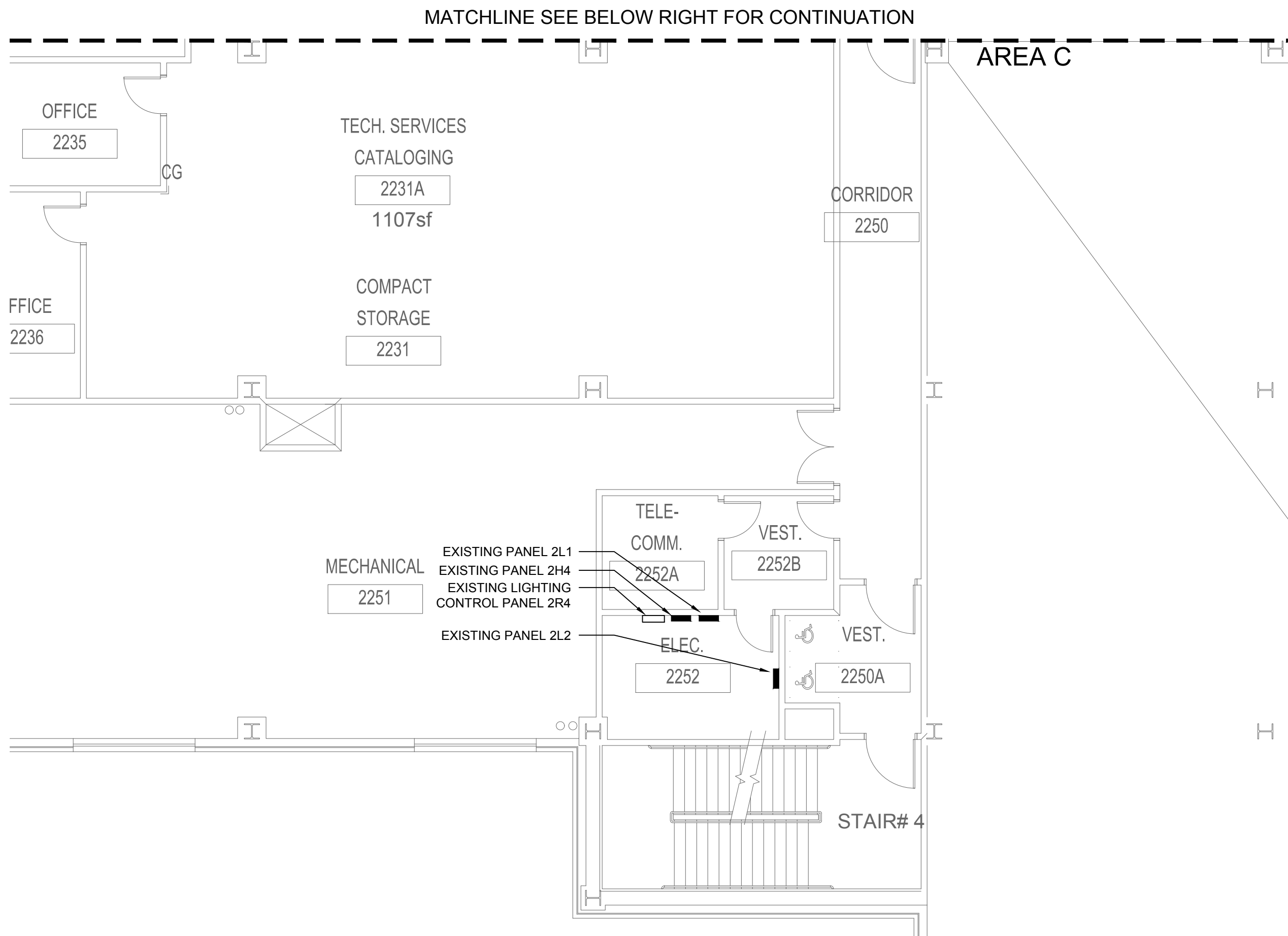




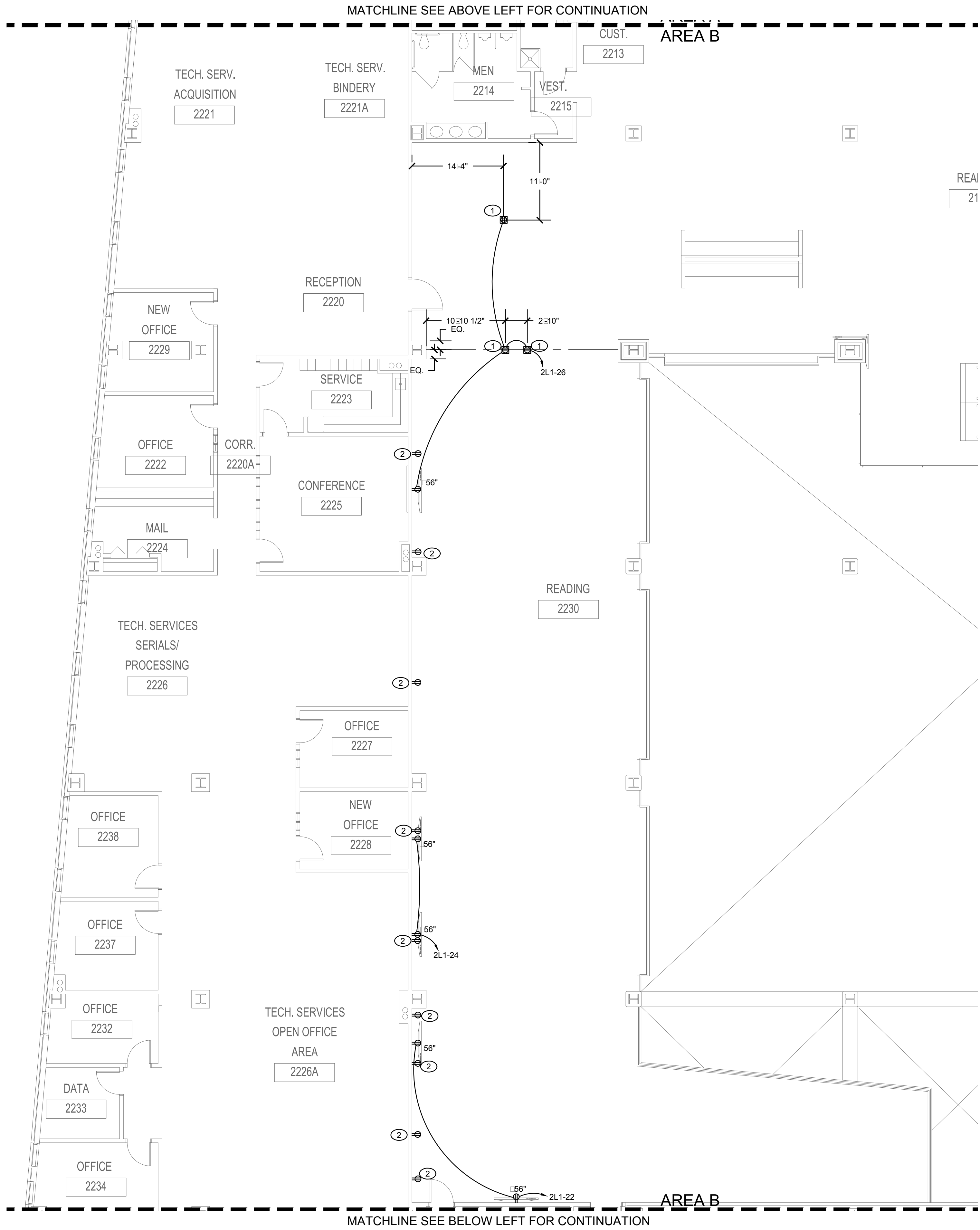
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1 POWER PLAN SECOND FLOOR - AREA A  
SCALE: 1/8" = 1'-0"



3 POWER PLAN SECOND FLOOR - AREA C  
SCALE: 1/8" = 1'-0"



2 POWER PLAN SECOND FLOOR - AREA B  
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- ALL CURRENT FLOOR BOXES ARE TO REMAIN, UNLESS OTHERWISE NOTED
- ALL CURRENT ELECTRICAL AND DATA LOCATIONS TO REMAIN AS IS UNLESS OTHERWISE NOTED
- FOR ALL POWER AND DATA TO BE INSTALLED WITHIN THE EXISTING TRENCH DUCT AND CELLULAR FLOOR THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND REINSTALLATION OF ALL FLOORING AS NEEDED TO ACCESS THE DISTRIBUTION SYSTEM.
- ALL FLOOR BOX INSTALLATION REQUIRE AN XRAY OF THE FLOOR PRIOR TO THE START OF ANY WORK.
- VERIFY EXACT LOCATION AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

POWER NOTES: (P)

- REFER TO E4.01 FOR FLOOR BOX DETAIL FOR FLOOR BOXES CONNECTING BACK TO THE EXISTING TRENCH SYSTEM OR PROVIDE A LEGRAND RC7 FLOOR BOX FOR POKE THRU BOXES OPTION. REFERENCE E3.01 FOR MORE INFORMATION.
- EXISTING BACK BOX TO BE EXTENDED TO NEW WALL SURFACE. INTERCEPT EXISTING CIRCUIT AT NEAREST ACTIVE SOURCE AND INSTALL NEW CONDUCTORS. THEN REINSTALL EXISTING DEVICES AND COVER PLATE.

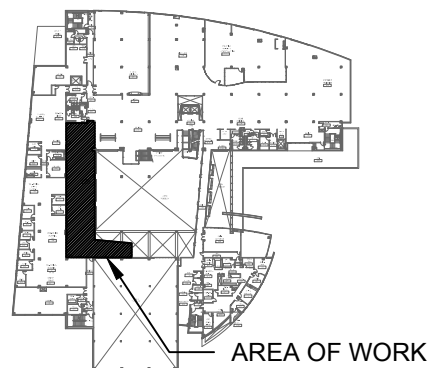
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Checked By: TA

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3D View:

Key Plan:



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POWER PLAN SECOND  
FLOOR

E2.01

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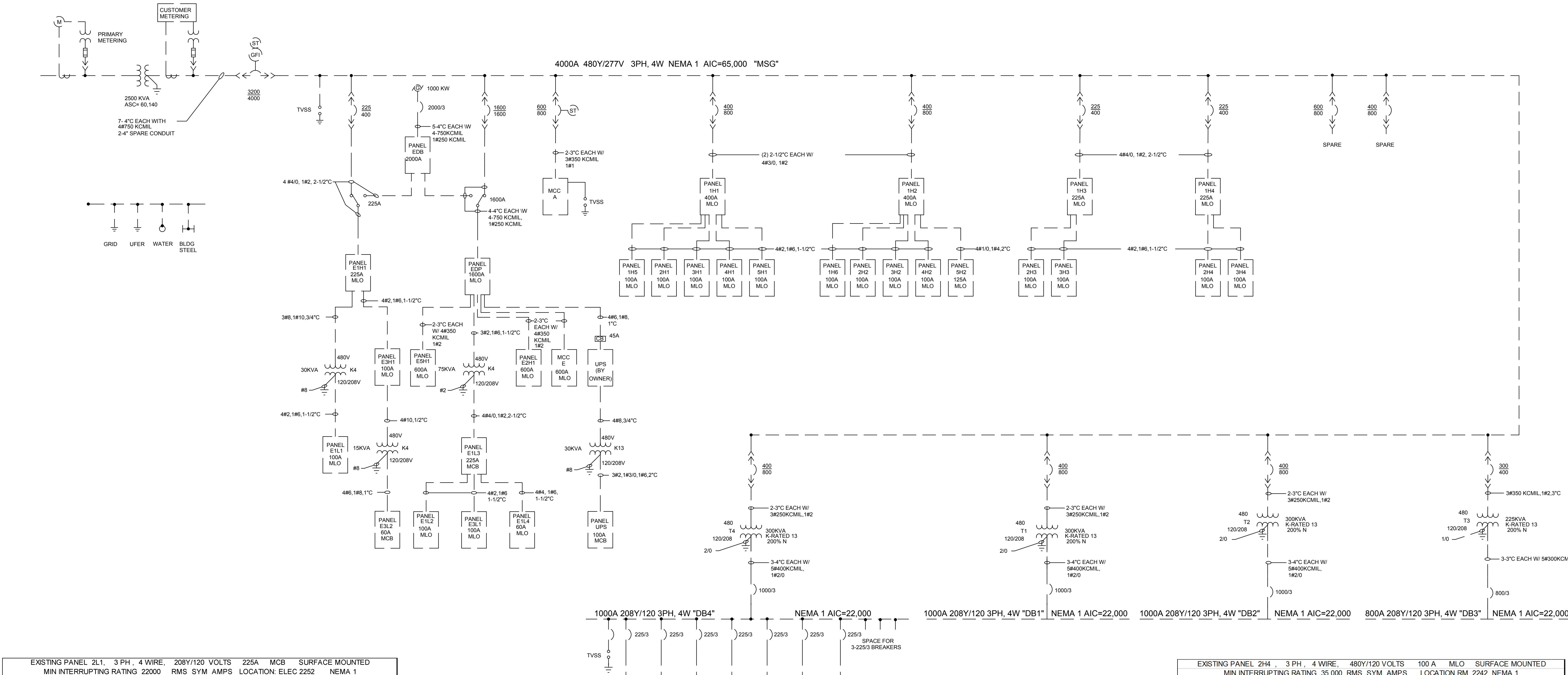












EXISTING ELECTRICAL ONE LINE DIAGRAM

SCALE: NONE

EXISTING PANEL 2L1, 3 PH., 4 WIRE, 208Y/120 VOLTS 225A MCB SURFACE MOUNTED MIN INTERRUPTING RATING 22000 RMS SYM AMPS LOCATION: ELEC 2252 NEMA 1									
E=EXISTING, F=FIXED EQUIPMENT, K=KITCHEN EQUIPMENT, L=LIGHTS, M=MECHANICAL EQUIPMENT, P=PANEL, R=RECEPTACLES MLO=MAIN LUGS ONLY, MCB=MAIN IN CIRCUIT BREAKER, N=NEW, RE=RELAY, SO=SPACE ONLY, SC=SPARE CIRCUIT, G=GFI BREAKER									
SPACE	CIRCUIT USE		CKT BKR RATING	CONNECTED LOAD VA			CKT BKR RATING	CIRCUIT USE	POLE SPACE
CKT	#			A	B	C			#
1	R	(E) ROFTOP GFI	20	1280			20	SPARE	2
3	R	(E) 2226, 2232	20		1280		20	SPARE	4
5	R	(E) 2234	20			900	20	SPARE	6
7	R	(E) FLOOR RM. 2226A	20	720			20	SPARE	8
9	R	(E) RM 2226A	20		1800		20	SPARE	10
11	R	(E) RM 2226A	20			1800	20	SPARE	12
13	R	(E) 2220	20	1280			20/2	RM 2233 IDF R (E) L6-20 RECEPTACLES	14
15	R	(E) 2227, 2226A	20		1440		X	X	16
17	R	(E) 2226A	20			1080	20/2	RM 2233 IDF R (E) L6-20 RECEPTACLES	18
19	R	(E) 2230, 2250	20	1080			X	X	20
21	R	(E) 2250	20		1280		20	R - 2230	22
23	R	(E) 2250	20		360	1080	20	R - 2230	24
25	R	(E) 2231	20	1080	360		20	R - 2230	26
27	R	(E) 2231, 2241	20		1240	200	20	LIGHTING CONTROL P - PANEL -ESN	28
29	R	(E) 2230	20			1440	20	LIGHTING CONTROL P - PANEL -ESN	30
31	R	(E) 2230	20	900		200			32
33	R	(E) 2231, 2241	20		1080				34
35	L	(E) AHU, R - AHU	20			500			36
37	R	(E) 2226 COLUMNS	20	1440					38
39		- SPARE	20						40
41		- SPARE	20						42
				8140	8680	7360	CALCULATED DEMAND = 49 AMPS		
				24180					
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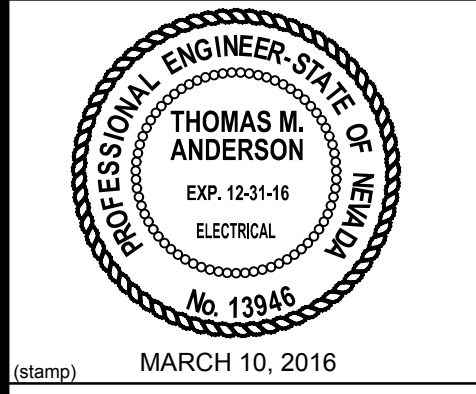
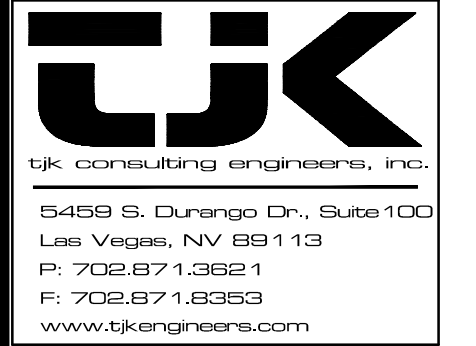
NOTES:

1. PROVIDE UPDATED TYPED WRITTEN PANEL DIRECTORY

EXISTING PANEL 2H4, 3 PH, 4 WIRE, 480Y/120 VOLTS 100 A MLO SURFACE MOUNTED									
MIN INTERRUPTING RATING 35,000 RMS SYM AMPS LOCATION RM. 2242 NEMA 1									
L=LIGHTS, R=RECEPTACLES, M=MECHANICAL EQUIPMENT, SO=SPACE ONLY, SC=SPACE CIRCUIT, E=EXISTING, G=GFI BREAKER									
MLO=MAIN LUGS ONLY, MCB=MAIN CIRCUIT BREAKER, N=NEW, RE=RELAY									
POLE SPACE R	CKT #	CIRCUIT USE	CKT BKR RATING	CONNECTED LOAD VA			CKT BKR RATING	CIRCUIT USE	POLE SPACE CKT #
				A	B	C			
1	1	L - (E) 2230 COVE	20	1650	-----	-----	20	L - (E) 2220, 2226, 2227	2
2	3	L - (E) 2230	20	3610	-----	-----	20	L - (E) 2226	5
3	5	L - (E) 2230	20	-----	1384	-----	20	L - (E) 2226	6
4	7	L - (E) 2230	20	-----	1840	-----	20	L - (E) 2231	7
5	9	L - (E) 2241	20	-----	-----	2404	20	L - (E) 2240	8
6	11	M - (E) VAV BOXES	20	-----	3150	-----	20	L - (E) 1256	9
7	13	SC	20	974	-----	-----	20	L - (E) 1256	10
8	15	SC	20	80	-----	-----	20	L - (E) 1256	11
9	17	SO	20	-----	530	-----	20	L - (E) 1256	12
10	19	SO	20	-----	3520	-----	20	L - (E) 1256	13
11	21	SO	20	-----	-----	320	20	L - (E) 1256	14
12	23	SO	20	-----	-----	3520	20	L - (E) 1256	15
13	25	SO	20	3520	-----	-----	20	L - (E) 1256	16
14	27	SO	20	-----	-----	-----		SO	17
15	29	SO	20	-----	-----	-----		SO	18
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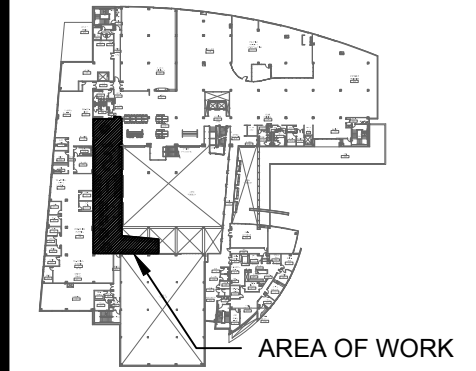
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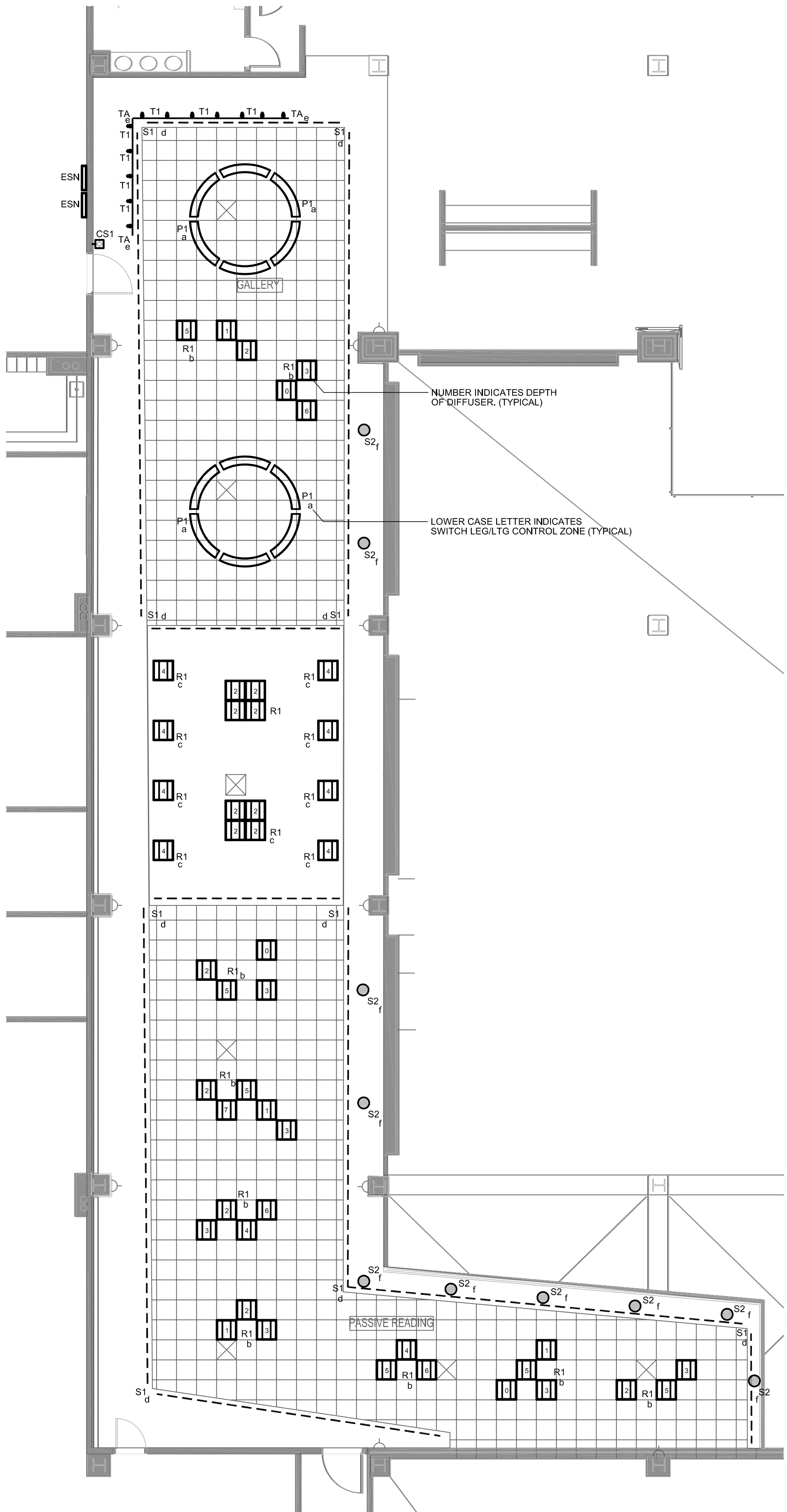
ONE LINE DIAGRAM &  
SCHEDULES

E5.01

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1 LEISURE READING LIGHTING PLAN  
Scale: 1/8" = 1'-0"

LUMINAIRE SCHEDULE				
Notes				
1.	All lamps of similar type by same manufacturer.			
2.	All finishes to be approved by Architect.			
3.	The Contractor IS RESPONSIBLE for Commissioning and Training the Client on the use of ALL lighting control devices			
TYPE	MODEL	LAMP	FINISH	DESCRIPTION / NOTES
BUILDING MOUNTED EQUIPMENT				
P1	BARBICAN LIGHTING Decorative LED Pendant at Leisure Reading ARO Series 18-2848-LF- LF#72879- 6pcs-CIRC-OA-OAE-VHT-36W-VOLT-DB	36 watt LED 3,500 lumens 82CRI 3500K	Balt. Cherry	Pendant mounted decorative LED luminaire with integral 0-10V DIMMING electronic driver. Provide circular mount. Contractor to verify exact mounting heights with Architect in the field. Architect/Owner to confirm color via sample provided by manufacturer.
R1	FOCAL POINT LED Decorative Downlight FNLV-22-ACZ to AC7 "SEE PLANS"-LL1-35K-1C-UNV-LD1-G_-WH	28 watt LED 2,400 lumens 82CRI 3500K	White	Recessed 2x2 LED troffer downlight with integral 0-10V DIMMING electronic driver and decorative white trim. See drawings for depth of lenses indicated at each fixture.
S1	ACOLYTE Surface Mount LED Tape Cove Light RB-24-1.5 -35 + "AC1" 45 degree Bracket+ REMOTE 0-10v DIMMING DRIVER	1.5 watt/LF 130 lumens/LF 80+ CRI 3500K	White	Interior surface mounted LED tape in cove with 0-10V REMOTE DIMMING Driver. Provide with mounting channel, cabling and angled bracket. Lengths as shown on drawings.
S2	MAXILUME/ELITE LIGHTING Decorative LED Retrofit w/ Glass Trim HH8-LED-1500L-NDIM4-VOLT-MD-35K-90+ / HH8-9510-CL-FINISH OR PRE-APPROVED EQUAL BY JUNO	15 watt LED 1,500 lumens 82CRI 3500K		Surface/Recess mounted LED downlight mounted over existing recessed downlight with integral Driver. Located throughout.
TA	JUNO SURFACE TRACK T"LENGTH"WH- +T28WH+ T21WH+ T24WH track- + end feed + end cap + 90deg	NA	White	Surface mounted single circuit extruded aluminum track. Contractor to provide all necessary components for a fully operational system. Provide with end feed kit with ON/OFF switch. Provide lengths as shown on drawings.
T1	JUNO LED Track head T272L-35-HC-N-HCLVH-WH	15 watt LED 1,300 lumens 92 CRI 3500K	White	Track mounted adjustable LED accent fixture with integral driver and lockable aiming. Contractor to provide each track head with reflector, Hex Cell Louver and Beam Softener.
A1	JUNO Track head Accessory -Spread Lens	TLENS-3-FL		Spread Lens for Type T1 Track Head. Provide Owner with (10)
A2	JUNO Track head Accessory -Spot Lens	TLENS-3-SP		Spot Lens for Type T1 Track Head. Provide Owner with (10)
X	LITHONIA Edge Lit LED Exit Sign EDGE EDG-FINISH- 1/2-R/G	Red/Green LED	Clear	Surface mounted Edge-Lit LED Exit Sign with battery back-up. Final quantity, mounting and graphics to be determined by Archt'l / Engineer. Confirm color with Arch'l / Engineer.
LIGHTING CONTROLS EQUIPMENT				
CS1	LUTRON Low Voltage Control Station See Touch QS Wall Station	NA	White	Low voltage Multi- Zone ON/OFF/DIMMING wall station to provide scene control and local dimming. Final equipment selection/type and mounting/location MUST be confirmed with manufacturer or representative PRIOR
ESN	LUTRON Programmable Lighting Control System Energy Saver Node with Softswitch	NA	NA	Programmable Lighting Control System with Power supply, Relays, Dimming Modules, EM Interface and Astronomical Time-Clock Function. Final equipment selection/type and mounting/location MUST be confirmed with manufacturer or representative PRIOR to order.
Cx	LUTRON Commissioning Services	NA	NA	Controls manufacturer to provide ADVANCED Commissioning services and ON-SITE training for facilities personnel and staff. Training to take place 60-90 days after owner occupies building. Contractor to coordinate services at appropriate stages of construction.

UNLV Lighting Relay Schedule						
Relay	Zone Description	QTY	Watts	Total Watts	Load	Dimming- Type
a	Type P1 pendant large diameter	12	36	432	LED	0-10v
b	Type R1 recessed 2x2 troffer (North and South)	32	28	896	LED	0-10v
c	Type R1 recessed 2x2 troffer (Center)	16	28	448	LED	0-10v
d	Type S1 LED tape in cove (linear feet)	312	1.5	468	LED	0-10v
e	Type TA Track (linear feet)	28	30	840	LED	Non-Dim
f	Type S2 LED retrofit	10	15	150	LED	Non-Dim
SPARE						
SPARE						
TOTAL				3,234		