UNIVERSITY OF NEVADA LAS VEGAS
MSL BUILDING

INTERIOR RENOVATION
SCS PROJECT NO. 1641
UNLV PROJECT NO. EPA 1603/PC-5602

100% CONSTRUCTION DOCUMENTS
OCTOBER 30, 2017

ARCHITECT
UNIVERSITY OF NEVADA LAS VEGAS

CONSULTANTS
SCS PROJECT NO. 1641
UNLV PROJECT NO. EPA 1603/PC-5602

MECHANICAL/PLUMBING ENGINEER
SIGMA Engineering
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OWNER
UNLV

PLANING & CONSTRUCTION
4505 SOUTH MARYLAND PARKWAY
BOX 451027
LAS VEGAS, NV 89154
P: (702) 895-1591
UNIVERSITY OF NEVADA, LAS VEGAS
UNLV BUILDING - INTERIOR RENOVATION

PLUMBING FAUCET CALCULATIONS

TOTAL WALL LENGTH TO BE ADJUSTED FOR PLUMBING FAUCETS

<table>
<thead>
<tr>
<th>Area</th>
<th>Number of Faucets</th>
<th>Number of Tears</th>
<th>Number of Valves</th>
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CODE ANALYSIS

OVERALL PROJECT DESCRIPTION

The building is a three-story office building located at 1011 E. Warm Springs Rd., Las Vegas, Nevada. The building was constructed in 1965 and has been remodeled/updated in 2017. The building is a Type II (High-Rise) building and is rated for 1 Hour fire resistance.

FIRE RESISTANCE REQUIREMENTS

- All exterior walls and partitions of the existing building are rated for 1 Hour fire resistance.
- All exterior walls and partitions of the existing building are rated for 1 Hour fire resistance.
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- All exterior walls and partitions of the existing building are rated for 1 Hour fire resistance.

FIRE ALARM

- Existing Fire Alarm System (Adjustments may be required).
# UNLV MSL Renovation Scope Control Table

<table>
<thead>
<tr>
<th>Room Space</th>
<th>Floors</th>
<th>Walls</th>
<th>Doors &amp; Windows</th>
<th>Casework</th>
<th>Ceiling</th>
<th>Mechanical</th>
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**UNIVERSITY OF NEVADA LAS VEGAS**

**UNLV MSL BUILDING - INTERIOR RENOVATION**
30.01 BUILD CONCRETE PATH IN ACCORDANCE WITH NATURAL GAS.

26.03 INSTALL NATURAL GAS GENERATOR AND LINES PER PLUMBING AND ELECTRICAL DOCUMENTS. REFER TO THESE DOCUMENTS.

32.01 REMOVE LANDSCAPE AND PLANTING FOR AREA SHOWN.
1.00 REMOVE EXISTING FLOORING AND SAWCUT THE FLOOR, WALLS, CEILINGS, DOORS, TO RECEIVE NEW FINISH.

2.00 ALL DOOR HARDWARE REQUIRES TO BE OPERATIONAL.

3.00 ADJUST TO THE REQUIRED APPROPRIATE ELEVATIONS, FOR HOLLOW METAL DOORS AND FRAMES PAINT COLOR, REFER DOCUMENT FOR REFERENCE ONLY.

4.00 NEW DOOR ASSEMBLIES MARKED ON PLAN PER DOOR ASSEMBLY.

5.00 REMOVE WALL FOR THE EXTENT SHOWN IN THE PLAN.

6.00 REMOVE DOOR ASSEMBLY AND DISPOSE ASSEMBLY TO CLEAR THE WHOLE WIDTH OF THE CORRIDOR.

7.00 CONTRACTOR SHALL INCLUDE ONLY HARDWARE INCLUDED IN THE FLOOR PLAN / DOOR SCHEDULE. INSTALL NEW ASSEMBLY TO CLEAR THE WHOLE WIDTH OF THE CORRIDOR.

8.00 REMOVE EXISTING FLOORING AND SAWCUT IT AS REQUIRED TO PREPARE SURFACES TO RECEIVE NEW FINISHES.

9.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

10.00 EXISTING SIGN METAL PLAQUE TO BE REMOVED REINSTALL AT LOCATIONS SHOWN PER PLAN.

11.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

12.00 REMOVE CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

13.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

14.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

15.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

16.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

17.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

18.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

19.00 REMOVE CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

20.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

21.00 REMOVE CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

22.00 REMOVE URINAL AND DISPOSE APPROPRIATELY.

23.00 REMOVE URINAL AND SALVAGE, STORE AND STORE.

24.00 REMOVE EXISTING WHITE BOARD CABINET WITH SIMILARS - REFER TO PHASING DRAWING FOR ADDITIONAL INFORMATION.

25.00 REMOVE URINAL SCREEN, PROTECT DURING OPERATION OF EXISTING DOORS (TYP.)

26.00 EXISTING SIGN METAL PLAQUE TO BE REMOVED REHINGE LEAF TO EXISTING FRAME TO SWING OUTSIDE OFFICE.

27.00 PREPARE REMAINING WALL AND ADJACENT CEILING ADJACENT TO THE WALL. PATCH AND REPAIR WALL ASS NECESSARY.

28.00 REMOVE DOOR ASSEMBLY AND DISPOSE ASSEMBLY  TO CLEAR THE WHOLE WIDTH OF THE CORRIDOR.

29.00 REMOVE DOOR ASSEMBLY AND DISPOSE ASSEMBLY TO CLEAR THE WHOLE WIDTH OF THE CORRIDOR.

30.00 REMOVE DOOR ASSEMBLY AND DISPOSE ASSEMBLY TO CLEAR THE WHOLE WIDTH OF THE CORRIDOR.

31.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

32.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

33.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

34.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

35.00 REMOVE EXISTING FLOORING AND SAWCUT THE CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

36.00 REMOVE CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO CONCRETE SLAB ON GRADE TO ADJUST THE INSIDE OFFICE. REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION.

37.00 REMOVE URINAL AND DISPOSE APPROPRIATELY.

38.00 REMOVE URINAL AND DISPOSE APPROPRIATELY.

39.00 REMOVE URINAL AND DISPOSE APPROPRIATELY.
1. All elements, furniture and similars being returned to owner must be inventoried/listed for their delivery.

2. All spaces may be showing elements/piping/ducts, cables, conduits that need to be removed to allow new construction/renovation. Coordinate these efforts for each space as necessary.

3. Remove door assembly and dispose appropriately. Infill walls with materials, finishes equal to other adjacent walls. Prepare surfaces to receive new finishes.

4. Create opening in wall of the dimensions included in the floor plan/door schedule. Install new assemblies or finishes as required.

5. Remove door assembly. Create opening in wall of the dimensions included in the floor plan/door schedule. Install new assemblies or finishes as required.

6. Soffit "Wall Header" to remain, a minimum of 8" below existing sprinkler pipe.

7. Remove door assembly and salvage, protect during construction and reinstall when required at new location shown on plans. Infill walls with materials, finishes equal to other adjacent walls. Prepare surfaces to receive new finishes.

8. Remove existing acoustical panel and dispose appropriately.

9. Remove existing sign metal plaque to be removed and dispose appropriately.

10. Remove existing white board cabinet with doors. Patch and repair wall as necessary to receive new finish.

11. Existing access door. Protect during construction. Clean before and after new finishes are to be installed at adjacent surfaces.

12. Existing HVAC grille/diffuser - replace as shown per mechanical drawings.

13. Remove power outlet. Refer to electrical drawings for more information and scope.

Scale: 1/4" = 1'-0"
1. **ALL ACCESS DOORS AND MECHANICAL REGISTERS TO BE PAINTED TO MATCH ADJACENT SURFACE COLOR, U.N.O.**

2. **PAINTED GYPSUM BOARD, PORTLAND CEMENT PLASTER, CMU & PRECAST CONCRETE PANELS SHALL BE PAINTED PT-1, U.N.O.**

3. **HOLLOW METAL DOORS TO BE PAINTED PT-3.**

4. **HOLLOW METAL DOOR FRAMES TO BE PAINTED PT-2.**

5. **INSTALL TRANSITION STRIPS ACCORDING TO MANUFACTURER’S RECOMMENDATIONS TO MEET ACCESSIBILITY REQUIREMENTS AT ALL LOCATIONS WHERE NEW FLOORING WILL BE INSTALLED.**

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### ROOM FINISH SCHEDULE

| RM. NO. | ROOM NAME       | FLOOR | BASE 1 - NORTH WALL 2 - EAST WALL 3 - SOUTH WALL 4 - WEST CEILING | COMMENTSWMATL 1 MATL 2 MATL 1 MATL 2 MATL 1 MATL 2 MATL 1 MATL 2 |
|---------|-----------------|-------|---------------------------------------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1       | 2.2 MENS VEST.  | 30    | LAB RIGGING                                                   | EXISTING VCT TO REMAIN, REPAIR AND PATCH AS REQUIRED. | PT-3          | PT-3          | PT-3          | PT-3          | PT-3          | PT-3          |
| 30      | LAB RIGGING     | 49    | WOMENS RESTROOM                                              |                                                           | PT-1          | PT-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 49      | WOMENS RESTROOM| 5       | OFFICE                                                        |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 3       | WORKROOM        | 4      | RECEPTION                                                     |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-2          | PT-1          |
| 5       | RESEARCH LAB    | 6       | OFFICE                                                        |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 6       | OFFICE          | 7       | WORKROOM                                                      |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-2          | PT-1          |
| 7       | WORKROOM        | 8       | OFFICE                                                        |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-2          | PT-1          |
| 9       | VEST.           | 10     | RESEARCH LAB                                                  |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-2          |
| 10      | RESEARCH LAB    | 11     | RESEARCH LAB                                                  |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 11      | RESEARCH LAB    | 12     | MENS RESTROOM                                                 |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 12      | MENS RESTROOM   | 13     | RESEARCH LAB                                                  |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 13      | RESEARCH LAB    | 14     | RESEARCH LAB                                                  |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 14      | RESEARCH LAB    | 15     | RESEARCH LAB                                                  |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-2          |
| 15      | RESEARCH LAB    | 16     | OFFICE                                                        |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-2          | PT-1          |
| 16      | OFFICE          | 26     | IDF ROOM                                                      |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 26      | IDF ROOM        | 27     | STORAGE                                                       |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 27      | STORAGE         | 28     | OFFICE                                                        |                                                           | CPT-1         | RB-1          | PT-1          | PT-2          | PT-1          | PT-1          |
| 28      | OFFICE          | 29     | COMPUTER LAB                                                  |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-2          | PT-1          |
| 29      | COMPUTER LAB    | 30     | RESEARCH LAB                                                  |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 30      | RESEARCH LAB    | 45     | LOBBY                                                         |                                                           | CPT-1         | RB-1          | PT-3          | PT-3          | PT-3          | PT-3          |
| 45      | LOBBY           | 46     | CORRIDOR                                                      |                                                           | CPT-1         | RB-1          | PT-3          | PT-3          | PT-3          | PT-3          |
| 46      | CORRIDOR        | 47     | CORRIDOR                                                      |                                                           | CPT-1         | RB-1          | PT-3          | PT-3          | PT-3          | PT-3          |
| 47      | CORRIDOR        | 48     | CORRIDOR                                                      |                                                           | CPT-1         | RB-1          | PT-3          | PT-3          | PT-3          | PT-3          |
| 48      | CORRIDOR        | 49     | WOMENS RESTROOM                                              |                                                           | PT-1          | PT-1          | PT-1          | PT-1          | PT-1          | PT-1          |
| 49      | WOMENS RESTROOM| 50     | LAB ACS J-RENNELS                                            |                                                           | CPT-1         | RB-1          | PT-1          | PT-1          | PT-1          | PT-1          |

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### FINISH MATERIALS LIST

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<th>MARK DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SIZE</th>
<th>COLOR</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>AP-1</td>
<td>ACOUSTIC WALL PANEL</td>
<td>FABRIC</td>
<td>GUILFORD OF MAINE</td>
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<td>CPT-1</td>
<td>CARPET TILE</td>
<td>SHAW CONTRACT DISPERSE TILE</td>
<td>59576</td>
<td>24&quot; x 24&quot;</td>
<td>ROUTES 75500 INSTALLATION: ASHLAR</td>
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<td>CERAMIC/PORCELAIN TILE</td>
<td>ARIZONA TILE BASALTINA</td>
<td>12&quot; x 12&quot;</td>
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<td>CTB-1</td>
<td>CERAMIC/PORCELAIN TILE</td>
<td>COVE BASE</td>
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<td>PL-1</td>
<td>PLASTIC LAMINATE</td>
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<td>4879-38</td>
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<td>DUNN</td>
<td>EDWARDS DEW397</td>
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<td>PT-2</td>
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<td>DUNN</td>
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<td>RB-1</td>
<td>RUBBER BASE</td>
<td>JOHNSONITE</td>
<td>TRADITIONAL WALL BASE WITH TOE</td>
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<td>48</td>
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<td>SDT-1</td>
<td>STATIC DISSIPATIVE V Vinyl Tile</td>
<td>ROPPE ESD STATIC CONTROL</td>
<td>DISSIPATIVE V Vinyl Flooring</td>
<td>24&quot; x 24&quot;</td>
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</table>

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**FINISH MATERIALS LIST NOTES**

1. ALL ACCESS DOORS AND MECHANICAL REGISTERS TO BE PAINTED TO MATCH ADJACENT SURFACE COLORS U.N.O.
2. CARPET STRIPS FOR NEW CARPET VEILS AND PORTLAND CEMENT PLASTER INSTALLATION OF ALL CMU AND PRECAST CONCRETE PANELS U.N.O.
3. INSTALL CERAMIC/TILE COVE BASE AS REQUIRED.
4. INSTALL ALL TRANSITION STRIPS AS REQUIRED TO MEET ACCESSIBILITY REQUIREMENTS AT ALL LOCATIONS WHERE NEW FLOORING WILL BE INSTALLED.
1. **ALL THE SPACES OF THIS RENOVATION PROJECT REQUIRE** adjusting, patching, repairing the existing surfaces of the floor, walls, ceilings, doors, to receive new finishes.

2. **ALL DOOR HARDWARE REQUIRES TO BE OPERATIONAL.** Adjust/repair, change as required.

3. **ADJUST TO THE REQUIRED APPROPRIATE ELEVATIONS,** selected floor drains, floor sinks, cleanouts and similars - refer to phasing drawing for additional information.

4. **ALL FURNITURE WILL BE PROVIDED BY UNLV FROM EXISTING COMING FROM OTHER BUILDINGS OR NEW - SHOWN IN DOCUMENT FOR REFERENCE ONLY.**

5. **FOR HOLLOW METAL DOORS AND FRAMES PAINT COLOR,** refer to finish materials notes on sheet A2.01.

6. **NEW DOOR ASSEMBLIES MARKED ON PLAN PER DOOR SCHEDULE.**

7. **CONTRACTOR SHALL INCLUDE ONLY HARDWARE REPAIR/REPLACEMENT REQUIRED FOR THE CORRECT OPERATION OF EXISTING DOORS (TYP.).**

8. **DISCONNECT POWER FROM ALL INTERIOR MAG LOCKS.** Refer to electrical for additional information.
1. Ensure all the spaces of this renovation project require adjusting/repair, change as required.
2. All door hardware requires to be operational.
3. Adjust to the required appropriate elevations, adjusting, patching, repairing the existing surfaces of finishes are to be installed at adjacent construction. Clean before and after new finishes for additional information.
4. All furniture will be provided by UNLV from existing to electrical for additional information.
5. New door assemblies marked on plan per door similar - refer to phasing drawing for additional information.
6. Contractor shall include only hardware from other buildings or new - shown in phasing - refer to sheet 7/S1.01 refer to mechanical drawings instructions as provided per additional information.
7. Disconnect power from all interior mag locks. Refer to electrical for additional information.
8. Hollow metal doors and frames paint color, refer to finish materials notes on sheet A2.01. For hollow metal doors and frames paint color, refer to finishes. The floor, walls, ceilings, doors, to receive new finishes. For additional information.
9. ACOUSTIC WALL PANELS FULL HEIGHT. 36"W.
10. ACOUSTIC PANEL ATTACHED TO DOOR.
11. TV AREA.
12. INTERIOR HVAC UNIT INSTALLED BETWEEN 6'-10" 22.01 EXISTING ACCESS DOOR. PROTECT DURING 12.03 EXISTING SHELVING 10.03 CURTAIN AND CURTAIN TRACK SYSTEM, REFER TO
13. 09.12 ACOUSTIC PANEL ATTACHED TO DOOR IN SHEET NOTES TO ELECTRICAL FOR ADDITIONAL INFORMATION.
14. DISCONNECT POWER FROM ALL INTERIOR MAG LOCKS. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
15. DOCUMENT FOR REFERENCE ONLY.
16. TO FINISH MATERIALS NOTES ON SHEET A2.01.
17. FOR HOLLOW METAL DOORS AND FRAMES PAINT COLOR, REFER TO PHASING DRAWING FOR ADDITIONAL INFORMATION.
18. TO FINISH MATERIALS NOTES ON SHEET A2.01.
1. All the spaces of this renovation project require adjusting, patching, repairing the existing surfaces of the floor, walls, ceilings, doors, to receive new finishes.

2. All door hardware requires to be operational. Adjust/repair, change as required.

3. Adjust to the required appropriate elevations, selected floor drains, floor sinks, cleanouts and similars - refer to phasing drawing for additional information.

4. All furniture will be provided by UNLV from existing coming from other buildings or new - shown in document for reference only.

5. For hollow metal doors and frames paint color, refer to finish materials notes on sheet A2.01.

6. New door assemblies marked on plan per door schedule.

7. Contractor shall include only hardware repair/replacement required for the correct operation of existing doors (Typ.)

8. Disconnect power from all interior mag locks. Refer to electrical for additional information.
1. All the spaces of this renovation project require adjusting, patching, repairing the existing surfaces of the floor, walls, ceilings, doors, to receive new finishes.

2. All door hardware requires to be operational. Adjust/repair, change as required.

3. Adjust to the required appropriate elevations, selected floor drains, floor sinks, cleanouts and similars - refer to phasing drawing for additional information.

4. All furniture will be provided by UNLV from existing coming from other buildings or new - shown in document for reference only.

5. For hollow metal doors and frames paint color, refer to finish materials notes on sheet A2.01.

6. New door assemblies marked on plan per door schedule.

7. Contractor shall include only hardware repair/replacement required for the correct operation of existing doors (typ.).

8. Disconnect power from all interior mag locks. Refer to electrical for additional information.
FINISH FLOOR PLAN

SCALE: 1/8" = 1'-0"

STAGING
OFFICE
267 SF

SHOP 2
ROOM
322 SF

FIELD
SWITCH
AREA

EQUIPMENT
STAGING

STAGING
SHOP 1
125 SF

CUST.
AREA
377 SF

WORK
(NET)

43.1
42.2
42.1

STORAGE
STAGING

STORAGE
SHOP &
1325 SF

CONTRACTOR
STUDIO
PHOTO
BREAK
ROOM
217 SF

279 SF

EQUIPMENT
STAGING

FIELD
AREA

22
21

580 SF

OFFICE
893 SF

OPEN
20

35

CONTRACTOR
OFFICE
STORAGE
831 SF

34.1
33.1

CONSOLIDATION

175 SF

463 SF

CALIBRATION

349 SF

413 SF

GRAPHICS
CEN
TER

389 SF

303 SF

RECORDS

31.1
34
33
32
24
23

279 SF

ROOM

217 SF

176 SF

LAB

123 SF

121 SF

CPT-1
1032 SF

TECHNICAL
LIBRARY

493 SF

19.1

175 SF

3.A
3.C

170 SF

170 SF

173 SF

15
14
13
12
11
10

J-RENNELS

120 SF

112 SF

24.1

190 SF

130 SF

456 SF

TELE/ DATA

CPT-1

16

49

12

79 SF

176 SF

170 SF

173 SF

15
14
13
12
11
10

J-RENNELS

120 SF

112 SF

24.1

190 SF

130 SF

456 SF

TELE/ DATA

CPT-1

16

49

12

79 SF

176 SF

170 SF

173 SF

15
14
13
12
11
10

J-RENNELS

120 SF

112 SF

24.1

190 SF

130 SF

456 SF

TELE/ DATA

CPT-1
1. ALL CONDUIT AND WIRING FROM REMOVED DEVICES SHALL BE REMOVED BACK TO SOURCE.
2. PROVIDE POWER CONTINUATION TO DOWNSTREAM CONDUIT IN INACCESSIBLE LOCATIONS SHALL BE CAPPED.
3. PROVIDE UPDATED, TYPED PANEL DIRECTORIES FOR ALL PANEL BOARDS WITH CIRCUITS MODIFIED, ADDED OR HARDWARE. DO NOT LEAVE ANY EXPOSED CABLING OR OPEN GANG BOXES.

E0.21
1. ALL CONDUIT AND WIRING FROM REMOVED DEVICES SHALL BE REMOVED BACK TO SOURCE.
2. PROVIDE POWER CONTINUATION TO DOWN STREAM DEVICES.
3. CONDUIT IN INACCESSIBLE LOCATIONS SHALL BE CAPPED OFF AND TO REMAIN IN PLACE.
4. WIRING SHALL NOT BE ABANDONED IN INACCESSIBLE CONDUITS.
5. PROVIDE UPDATED, TYPED PANEL DIRECTORIES FOR ALL PANEL BOARDS WITH CIRCUITS MODIFIED, ADDED OR REMOVED.
6. DISCONNECT POWER AND LEAVE IN PLACE FOR FUTURE RECONNECTION TO ALL DOORS WITH ELECTRICAL MAGNET HARDWARE. DO NOT LEAVE ANY EXPOSED CABLING OR OPEN GANG BOXES.

CONSULTANT

tjk consulting engineers, inc.
8728 Spanish Ridge Avenue, Suite 100
Las Vegas, NV 89148
P: 702.871.3621
F: 702.871.8353
www.tjkengineers.com

TECHNICAL OFFICE
LIBRARY STACK
STAGING AREA
FIELD EQUIPMENT
STAMP
MECHANICAL ROOM
LIBRARY
WORKROOM
CORRIDOR
STORAGE AREA
CORRIDOR
OPEN OFFICE
SHOP & STORAGE
PHOTO STUDIO
CONTRACTOR
STORAGE
OLD ROOM
CORRIDOR
CONTRACTOR
RECESSION
SPACE
MAIL ROOM

general sheet notes:

- All wiring and piping shall be removed from areas to be demolished.
- Where conduits cannot be disconnected, lockout procedures will be followed.
- All removed conduits & circuits shall be capped and marked.
- All removed conduits and circuits shall be marked.
- All conduit & wiring shall be marked and sectioned where practical.
- All conduit & wiring shall be marked & sectioned where practical.

D2 REMOVE RECEPTACLE, CONDUIT & CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUITING TO DOWNSTREAM DEVICES.

E0.22
1. EXACT LOCATION OF ALL RELOCATED LIGHT FIXTURES.
2. VERIFY EXACT CEILING CONSTRUCTION WITH MECHANICAL EQUIPMENT AND DUCT WORK PRIOR TO ROUGH-IN.

ALL CONDUIT/CABLE INSTALLATION SHALL BE INSTALLED IN SIMPSON COULTER | STUDIO

A NEAT AND WORKMANLIKE MANNER.

BALLAST TO MAINTAIN CHARGING CIRCUIT REGARDLESS OF REVISIONS NO. DATE DESCRIPTION

1
151 E. Warm Springs Rd.

www.simpsoncoulter.com

L5 REVISE WIRING IN THESE ROOMS TO REVISE TO CONTROL LIGHTS ONLY WITHIN ROOM WHERE

FOREIGNER

CUST. STORAGE

TECHNICAL

LIBRARY STACK

CONSOLIDATION

GRAPHICS

SUPPLY STORAGE

STAGING AREA

SHOP & STORAGE

WORK SHOP 2

CORRIDOR

Copying Center

Corridor

WORKROOM

RESEARCH LAB

MENS RESTROOM

RECEPTION

VENDORS

STAGING AREA

WORKSHOP 3

CORRIDOR

90 MINUTES BACKUP.

12.1

13.1

18.1

19.1

25.1

26.1

31.1

32.1

34.1

49.1

2017

SCS-1641

100% Construction Documents

SUBMITTAL

2012 IECC

SUB-SECTIONS SHALL BE IMPLEMENTED.
1.功率平面图

2.将所有设备的位置与建筑师的图纸进行核实。

3.根据Hubbell-Kellem的质量控制，核实所有管道/导线的电压降。

4.使用PLASTIC FFC-3 55 #12, 1#12, 1/2"C ON WALL 208 0.25 20 52

5.对所有设备的端子进行分类和编号。

6.根据单线图，为馈电和分配器提供设备和位置。

7.参考单线图。”

8.现有插座显示光线保留。

9.任命电力平面图的顾问。

10.日期：2017年10月30日

11.项目号：E2.21
LOAD CALCULATIONS

EXISTING SUBSTATION EPA MSL BUILDING
EXISTING ESTIMATED LOAD
NEW LOAD
TOTAL
TOTAL AMPS
Spare

EXIST SERVICE 1200A

= 18044 VA
= 44675 VA
= 224719 VA
= 624 AMPS

= 45%

EXIST. PRIMARY METERING & SERVICE EQUIP.

TO F.A. CONTROL PANEL SWITCHBOARD 'DE'
120/208V, 3PH, 4W
1200A BUS
EPA MSL BUILDING
TO MANUAL BREAK GLASS STATION
TO LABORATORY BUILDING
TO NVE EQUIPMENT

300 kVA UNIT SUBSTATION
4160V - 480Y/277V
EPA MSL BUILDING
TO QAL BUILDING

600A M150A 150A 250E
1200AT 1200AF
400AT 400AF
600AT 600AF
30/2 22A
225/3 225/3 225/3 225/3 225/3

PANEL 'EE1'
EXISTING PANEL RM. 27
EXISTING PANEL RM. 28
EXISTING PANEL RM. 29
EXISTING PANEL RM. 30
EXISTING PANEL RM. 36
### ELECTRICAL SCHEDULES

#### UNLV MBL BUILDING - INTERIOR RENOVATION

- **Owner**: University of Nevada Las Vegas (UNLV)
- **Location**: Storage 27
- **Date**: October 30, 2017
- **Consultant**: TJK Consulting Engineers

#### Panelboard: EE3

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<th>PHASE B</th>
<th>PHASE C</th>
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- **Panelboard**: EE3
- **Special**: NEMA1
- **Mounting**: Surface
- **A.I.C. Rating**: 35,000 AMPS SYMMETRICAL
- **Voltage**: 208Y/120 V. 3 ø 4 W.

#### Panelboard: EE4

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- **Panelboard**: EE4
- **Special**: IDF ROOM 26
- **Mounting**: Surface
- **A.I.C. Rating**: 35,000 AMPS SYMMETRICAL
- **Voltage**: 208Y/120 V. 3 ø 4 W.

### NOTES:

- **EST. DEMAND CURRENT**: 168 A
- **CONNECTED CURRENT**: 171 A
- **ESTIMATED DEMAND**: 60452 VA
- **CONNECTED LOAD**: 61517 VA

### Electrical Workroom

#### PREP

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<th>LOAD DESCRIPTION</th>
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- **Panelboard**: EE3
- **Special**: IDF ROOM 26
- **Mounting**: Surface
- **A.I.C. Rating**: 35,000 AMPS SYMMETRICAL
- **Voltage**: 208Y/120 V. 3 ø 4 W.
1. CURRENT RACEWAY - THERE IS V400 WIRE MOLD ENTERING THE ROOM CURRENTLY ALONG WALLS.
EXISTING DATA CONSISTS OF (3) CATEGORY 5E AND (1) 4 STRAND MULTI-MODE 62.5 ALL AT 72" HIGH.

2. REMOVE THE EXISTING CABLE BACK TO SOURCE, REMOVE THE EXISTING 2400 WIRE MOLD BACK TO THE V4000 AND REMOVE THE EXISTING SURFACE MOUNTED WALL BOX.

3. CONTRACTOR TO REMOVE CABLING FOR THE DOOR MAGNET HOLDS FOR THE DOORS IN THE LABS BACK TO THE CLOSEST J BOX. THE MAGNETS HARDWARE TO

4. THE EXTERIOR DOOR CONTROLLERS NEED TO REMAIN, BUT THE WIRING MAY CHANGE.

5. THE DOORS REMOVED FROM THE CORRIDOR HAVE SIMPLSON COULTER | STUDIO ELECTRICAL CONNECTIONS THAT NEED TO BE CAPPED/REMOVED BACK TO NEAREST J BOX.

6. CORRIDOR CABLE TRAYS AND PATHWAYS (KEYNOTE D4 & D5) TO BE REMOVED, TAKING PRECAUTION NOT TO DAMAGE PATHWAYS AND WIRE MOLDS INTO THE ROOMS.

CONSULTANT

Simpson Coulter | STUDIO

151 E. Warm Springs Rd.
Las Vegas, NV 89119
702-435-1150
www.tjkengineers.com

CONSULTANT

TJK Engineering

October 30, 2017
LV0.21
KEY NOTES

D8 EXISTING DATA  RECEPTICLE TO BE REMOVED.  KEEP HORIZONTAL AND VERTICAL WIREMOLD.
1. FOR THE REQUIREMENTS ON ROUTING AND SUPPORT OF ALL LOW VOLTAGE CABLE REFER TO THE SPECIFICATION 27 00 00 AND (4) STRAND MULTI-MODE FIBER IS TERMINATED AT 72" HIGH. REMOVE CABLE BACK TO SOURCE, REMOVE EXISTING SURFACE MOUNTED WALL BOX.

3. LOCATE ALL DATA OUTLETS ADJACENT TO COMPUTER POWER RECEPTACLES SHOWN ON ELECTRICAL POWER PLANS.

4. CONTRACTOR MAY ROUTE CABLES ABOVE CEILING TILES WHEN PRACTICAL.

5. UNUSED DATA RECEPICALS. NO UNUSED RECEPICALS SHOULD BE EXPOSED.

6. CONTRACTOR TO REMOVE AND REPLACE ALL LOW VOLTAGE CABLES THAT ARE CROSSED OR EXPOSED AND PROPERLY ROUTE AND PLACE IN CONDUIT, CABLE TRAY (

7. CONTRACTOR TO RUN CABLES (KEY NOTE 8) ABOVE DROPPING DOWN INTO THE ROOMS DELENIATED IN KEY NOTE C8.

KEY NOTES

C1 WIRELESS ACCESS POINT POE DATA OUTLET
C2 CABLE TRAY: CONTRACTOR TO HANG CHALFONT WIRE MESH
C3 CABLE TRAY INTERSECTION: CONTRACTOR TO HANG 6X4 MESH CABLE TRAY (CHALFONT PART # WMGR406G) INTERSECTION PER MANUFACTURER SPECIFICATIONS FOLLOWING ORIGINAL CABLE PATH INTO THE CLASSROOM.

G.1 ORDERED SYSTEMS AND 27 05 29 HANGERS AND SUPPORTS FOR COMMUNICATION SYSTEMS). CABLES TO TERMINATE IN IDF OUTLET AS INDICATED (DARK OUTLET IS NEW WITH CONNECTION TO HORIZONTAL WIREMOLD WHERE AVAILABLE, VERTICAL WIREMOLD) REPLACE KEYSTONES AND PROVIDE BLANKS AS NEEDED TO MATCH NEW CABLING.
1. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SECURITY FOR THE SITE DURING THE COURSE OF INTRUSION ALARM SYSTEM. SECURITY WILL BE REQUIRED UNTIL UNLV SECURITY SYSTEMS HAS FULLY ACCEPTED THE INTRUSION ALARM SYSTEM IN ITS ENTIRETY FROM THE CONTRACTOR.

2. SECURITY DEVICES WITH UNLV SECURITY SYSTEMS.

3. ALL INTRUSION ALARM SYSTEM HORIZONTAL CONDUIT SHALL BE 3/4" MINIMUM. THE CONTRACTOR SHALL BE LIMITED TO A MAXIMUM 40% FILL RATIO THROUGHOUT THE SYSTEM.

4. CONTRACTOR SHALL PROVIDE A PULL BOX AFTER EVERY TWO 90° BEND/SWEEP FOR ALL CONDUIT RUNS. AT NO TIME SHALL THE PULL BOX BE USED IN LIEU OF A BEND/SWEEP.

5. ALL SERVICE / JUNCTION BOXES SHALL BE LOCATED ABOVE AN ACCESSIBLE CEILING SPACE. REFERENCE SPECIFICATION SECTION 28 16 00 FOR INSTALLATION REQUIREMENTS OF SERVICE / JUNCTION BOXES IN AREAS THAT DO NOT HAVE AN ACCESSIBLE CEILING SPACE.