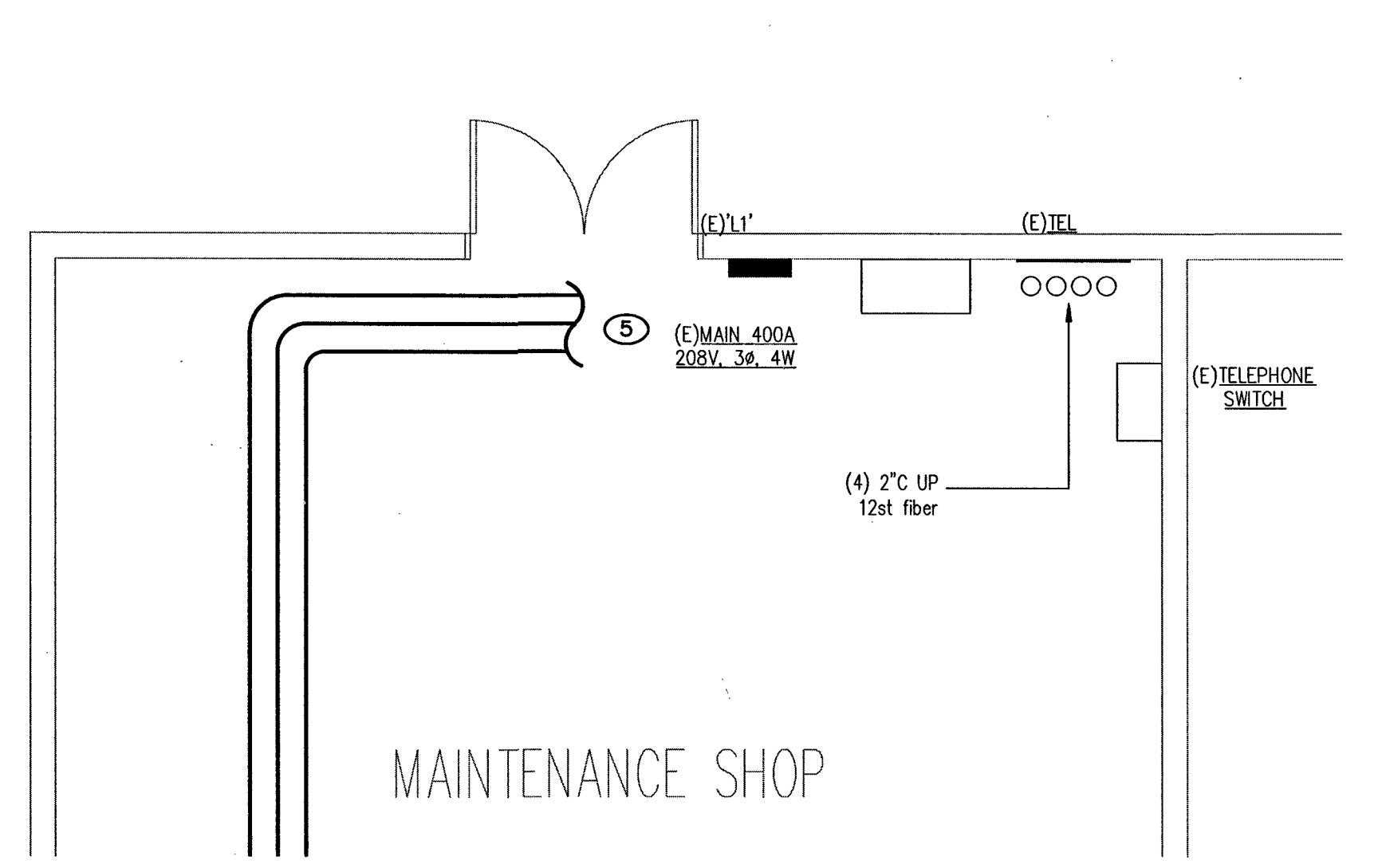
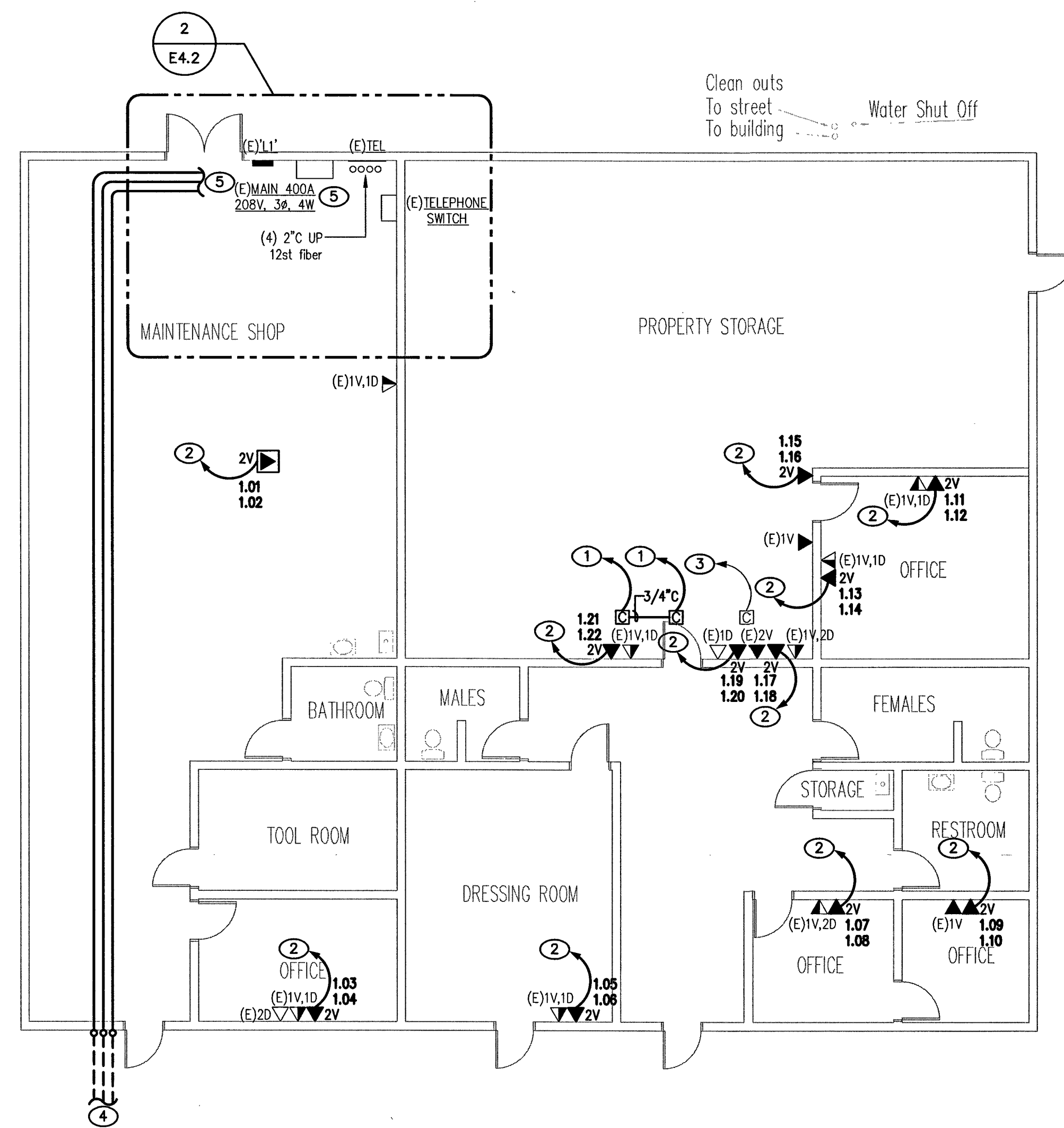




ENLARGED AUXILIARY PLAN - SUPPORT SERVICES
SCALE: 1/4" = 1'-0" 2



ELECTRICAL AUXILIARY PLAN - SUPPORT SERVICES
SCALE: 1/8" = 1'-0" 1

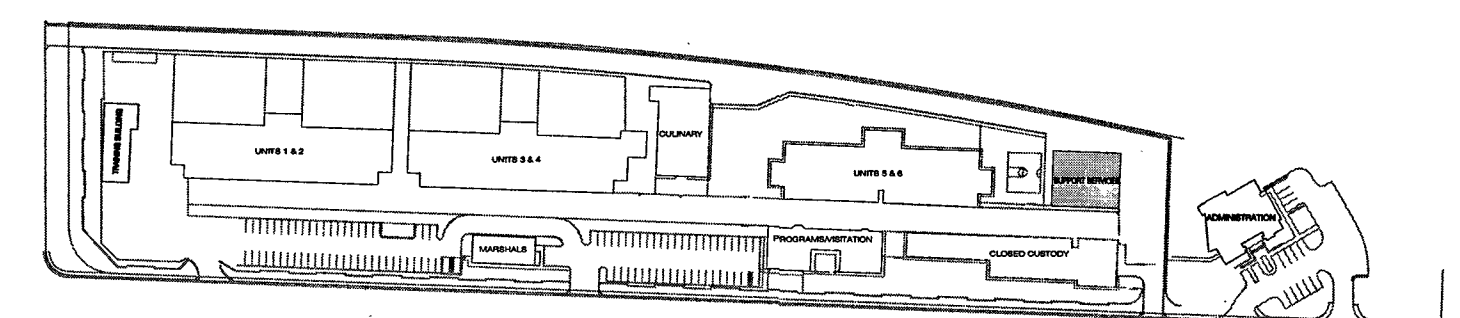
KEYED NOTES

- ROUTE (1)-NEW 3/4" CONDUIT WITH PULLSTRING TO COMMUNICATIONS RACK LOCATED IN MAINTENANCE SHOP.
- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO COMMUNICATIONS RACK LOCATED IN MAINTENANCE SHOP.
- RE-USE EXISTING CONDUIT FOR THIS CAMERA ONLY.
- ROUTE (3)-NEW 2" CONDUITS UNDERGROUND TO NEW MANHOLE MH2. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY FROM NEW MANHOLE MH2. RE: 1/ES.1 AND 1/ES.2 RACEWAY SINGLE-LINE DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.

GENERAL NOTES

- A. ALL CONDUIT AND CABLING HAS BEEN INSTALLED FOR SECURITY.

RECORD DRAWING. JAN. 07, 2015
This record drawing has been prepared in part, based upon information furnished by others. While this information is believed to be reliable, Harris Consulting Engineers LLC cannot assure its accuracy, and is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.

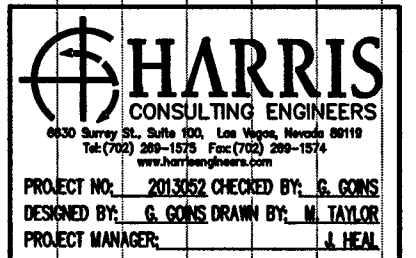


KEY PLAN



REVISIONS	
DATE	
BY	
DESCRIPTION	

CONSULTANT



PROJECT NO. 2015022 CHECKED BY: J. S. SORRE
DESIGNED BY: J. S. SORRE DRAWN BY: M. L. LARSEN
PROJECT MANAGER: J. S. SORRE

CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- SUPPORT SERVICES

DATE

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-8535
FAX: (702) 384-8846
TDD: (702) 386-8108

DRAWN: MTAYLOR
FILE: 3062E42.DWG
DATE: DECEMBER 2013
SCALE: AS NOTED
JOB NO: 13.48808-TB
PLANS LIBRARY: 513-55ZQ
HATCH: 48808

DATE

DATE

DATE

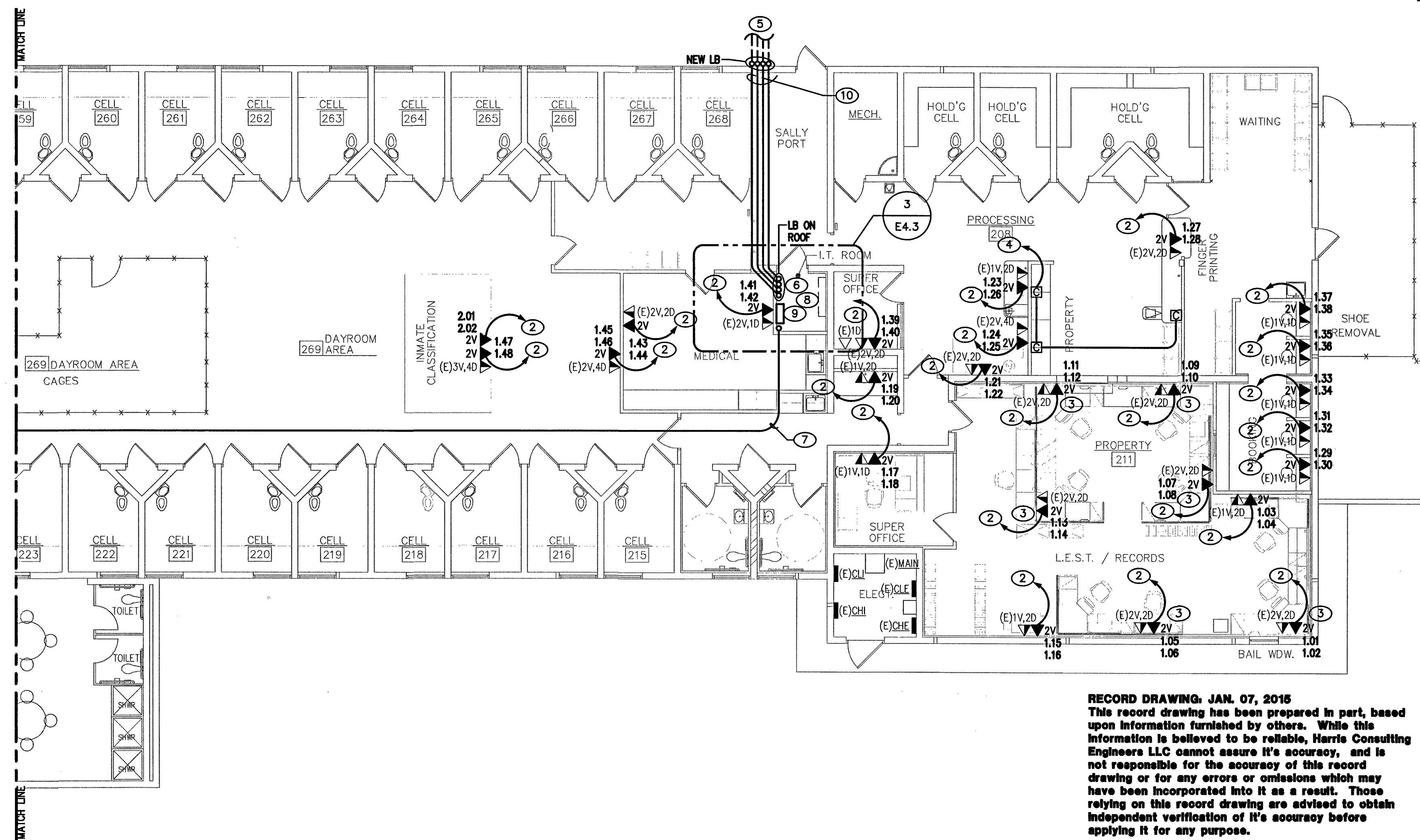
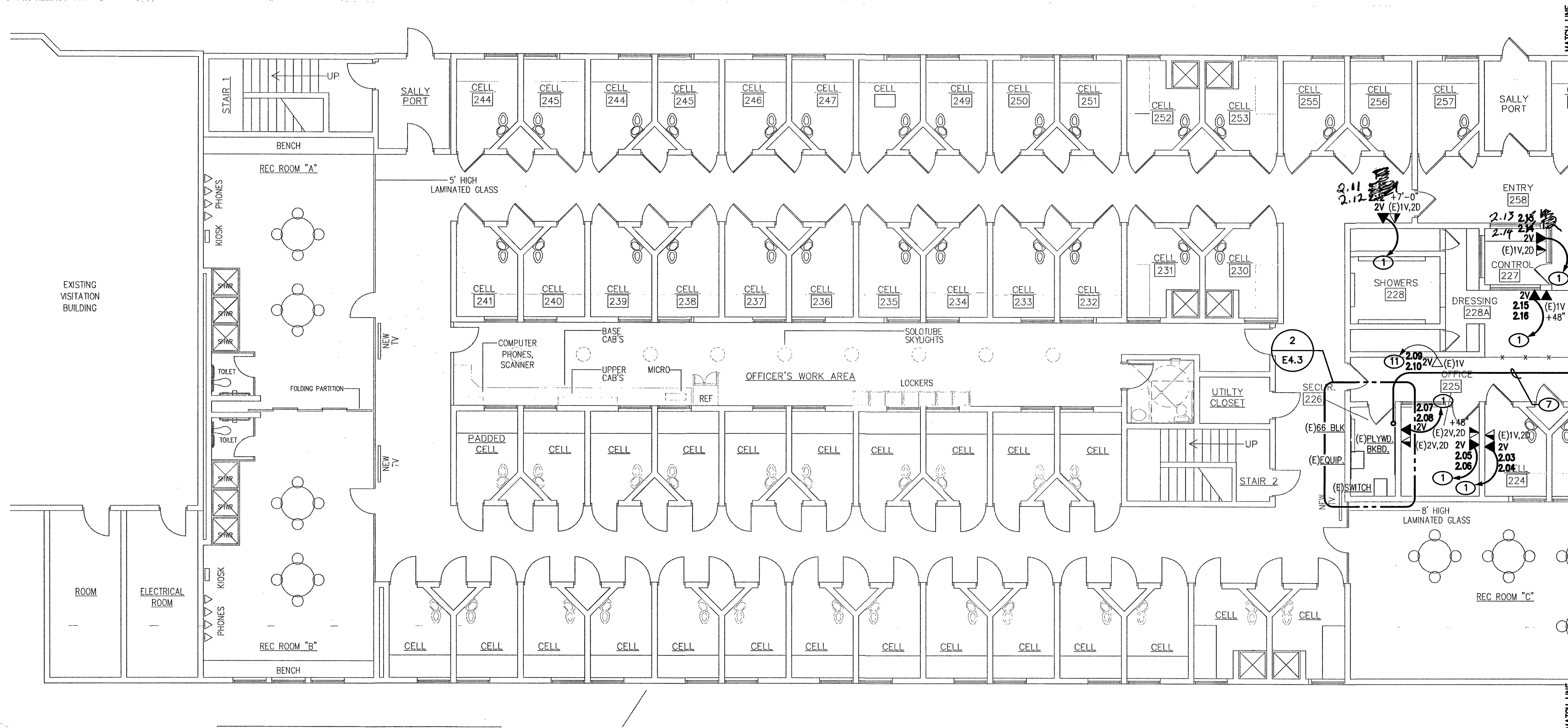
DATE

DATE

DATE

DATE

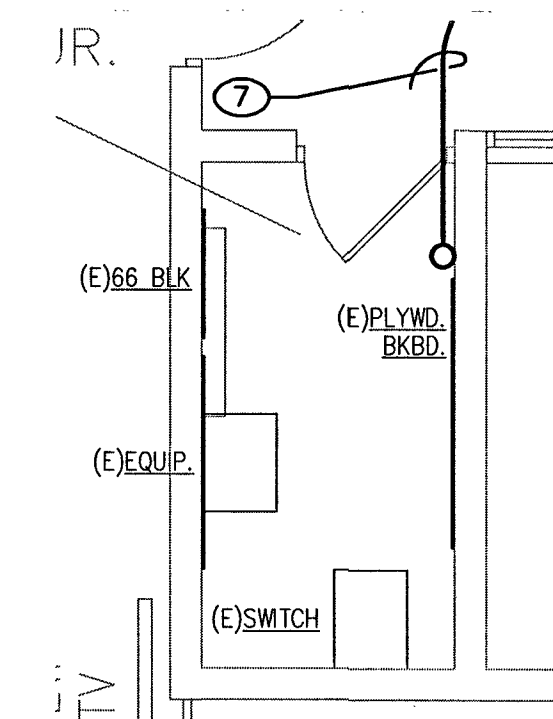
DATE



RECORD DRAWING: JAN. 07, 2015
This record drawing has been prepared in part, based upon information furnished by others. While this information is believed to be reliable, Harris Consulting Engineers LLC cannot assure its accuracy, and is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.

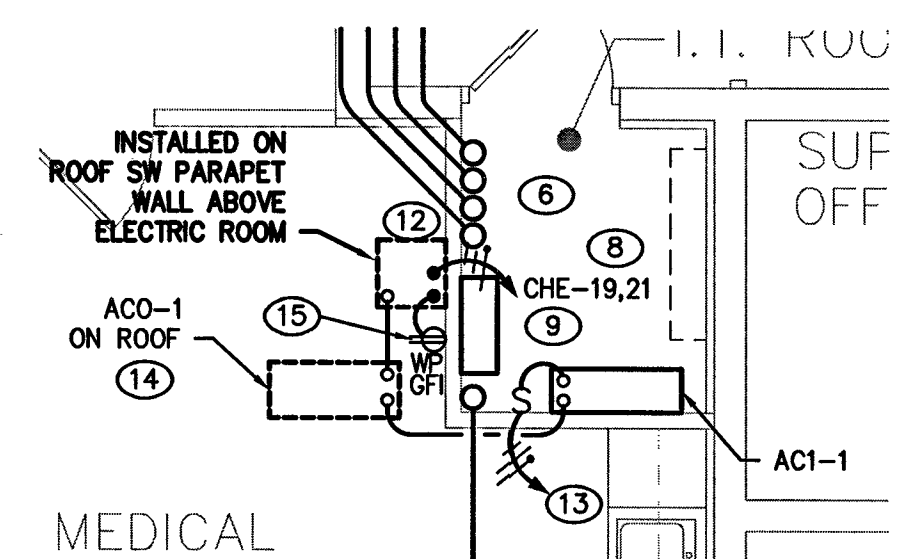
KEYED NOTES

- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO EXISTING TELEPHONE RACK LOCATED IN SECURITY ROOM 226.
- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO THE I.T. ROOM LOCATED IN THIS BUILDING.
- ROUTE (2)-NEW CAT 6 CABLES TO VOICE OUTLET LOCATION IN EXISTING PARTITION WIREWAY.
- ROUTE (1)-NEW 3/4" CONDUIT WITH PULLSTRING TO EXISTING SECURITY RACK LOCATED IN SECURITY ROOM 226.
- ROUTE (4)-NEW 2" CONDUITS UNDERGROUND TO NEW MANHOLE MH2. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY FROM NEW MANHOLE MH2. RE: 1/E5.1 AND 1/E5.2 RACEWAY SINGLE-LINE DIAGRAM FOR MORE INFORMATION AND REQUIREMENTS.
- ROUTE (2)-NEW 2" RIGID GALVANIZED CONDUITS ACROSS ROOF AND DOWN INTO EXISTING SECURITY AND I.T. ROOMS FOR VOICE/DATA CABLES AND PROVIDE (1)-NEW 6 STRAND MULTI-MODE FIBER OPTIC CABLE.
- I.T. ROOM EXISTING EQUIPMENT AND CONNECTIONS ARE TO REMAIN.
- NEW WALL MOUNTED PATCH PANEL LOCATION.
- ROUTE (4)-NEW 2" CONDUITS UP ONTO ROOF AND DOWN INTO EXISTING I.T. ROOM.
- EXISTING 3/4" CONDUIT TO REMAIN. REMOVE EXISTING CABLE AND REPLACE WITH (2)-NEW CAT 6 CABLES AND ROUTE TO EXISTING TELEPHONE RACK LOCATED IN SECURITY ROOM 226.
- SQUARE D 480/120-240VAC, 14, 3W, 5 KVA MINI-POWER CENTER, NEMA 3R MOUNTED ON UNI-STRUT FRAME LOCATED ON ROOF. PROVIDE (1) 15A, 2P AND (1) 15A, 1P CIRCUIT BREAKERS. CONNECT TO INDICATE PANEL WITH NEW 20A, 2P 480V CIRCUIT BREAKER AND #10 THWN.
- PROVIDE TOGGLE SWITCH AND CIRCUIT FOR CONDENSATE PUMP. CONNECT TO NEW MINI-POWER CENTER WITH 3-#12, 3/4"C.
- CONNECT NEW ACO-1 TO NEW MINI-POWER CENTER USING 3-#12, 3/4"C. CONNECT TO 15A, 2P CIRCUIT BREAKER. PROVIDE 3/4"C WITH 3-#12 TO EVAP COIL FROM CONDENSER.
- PROVIDE NEW WP, GFI RECEPTACLE ON ROOF CONNECT TO MINI-POWER CENTER WITH 3-#12, 3/4"C.



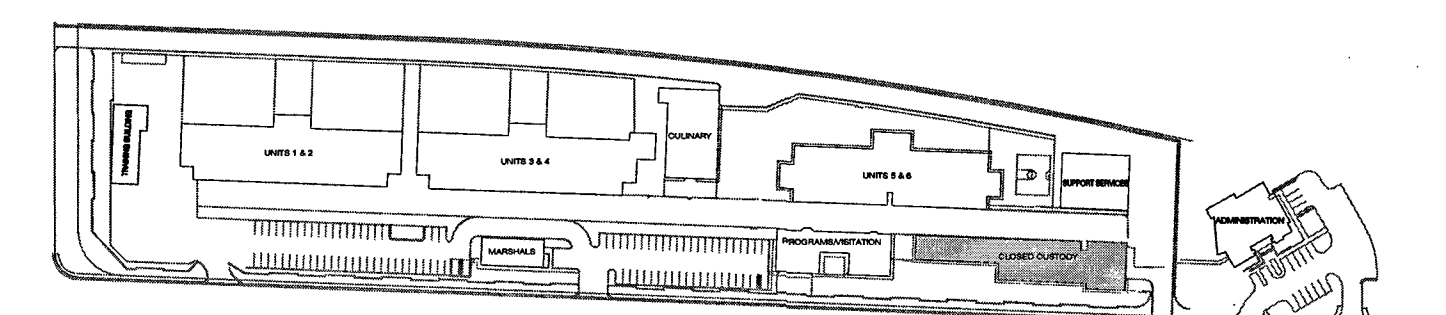
ENLARGED AUXILIARY PLAN - CLOSED CUSTODY 2

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



ENLARGED AUXILIARY PLAN - CLOSED CUSTODY 3

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

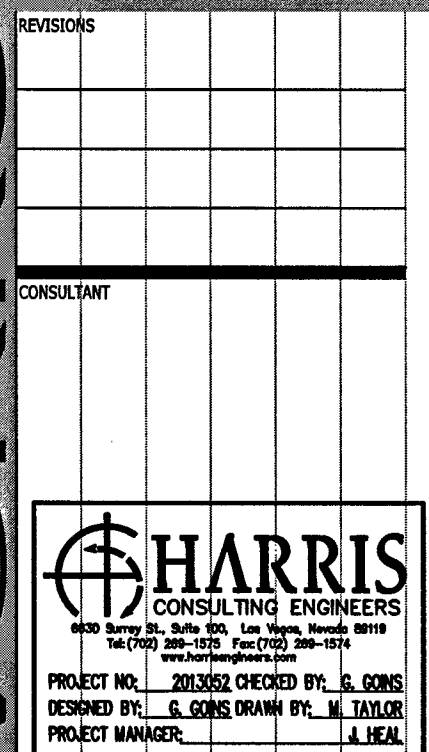


KEY PLAN

ELECTRICAL AUXILIARY PLAN - CLOSED CUSTODY

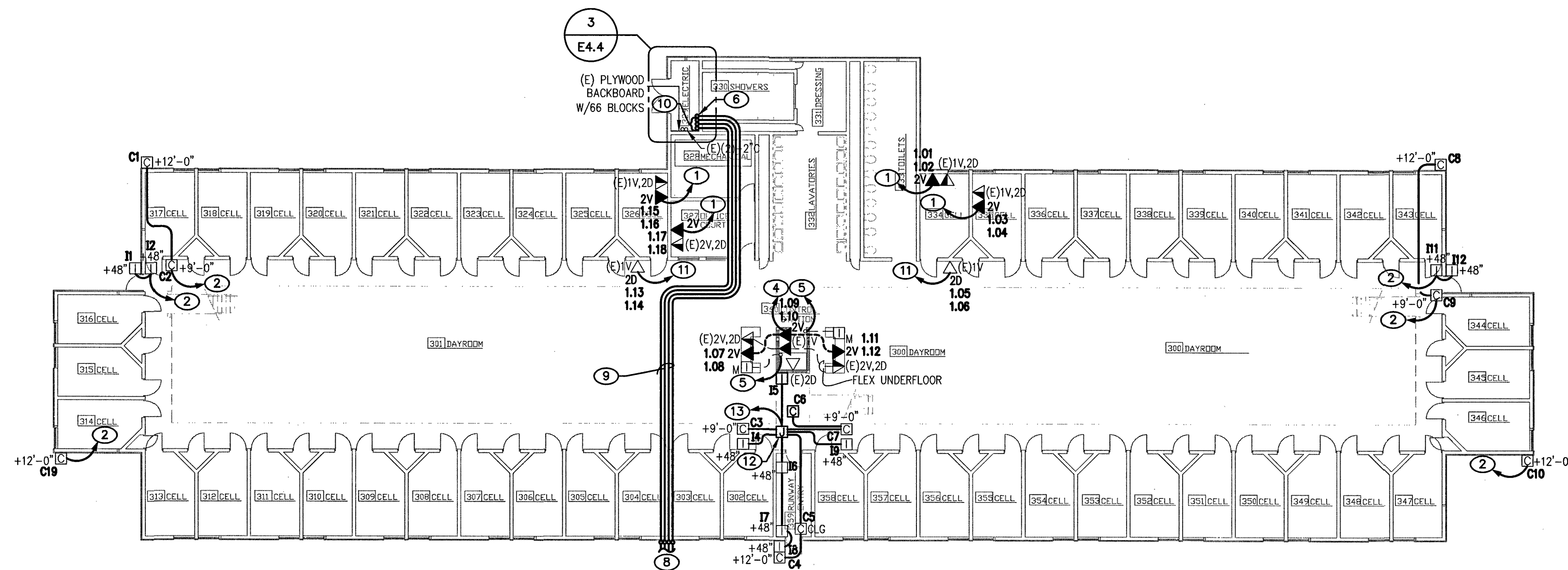
SCALE: 1/8" = 1'-0"

1



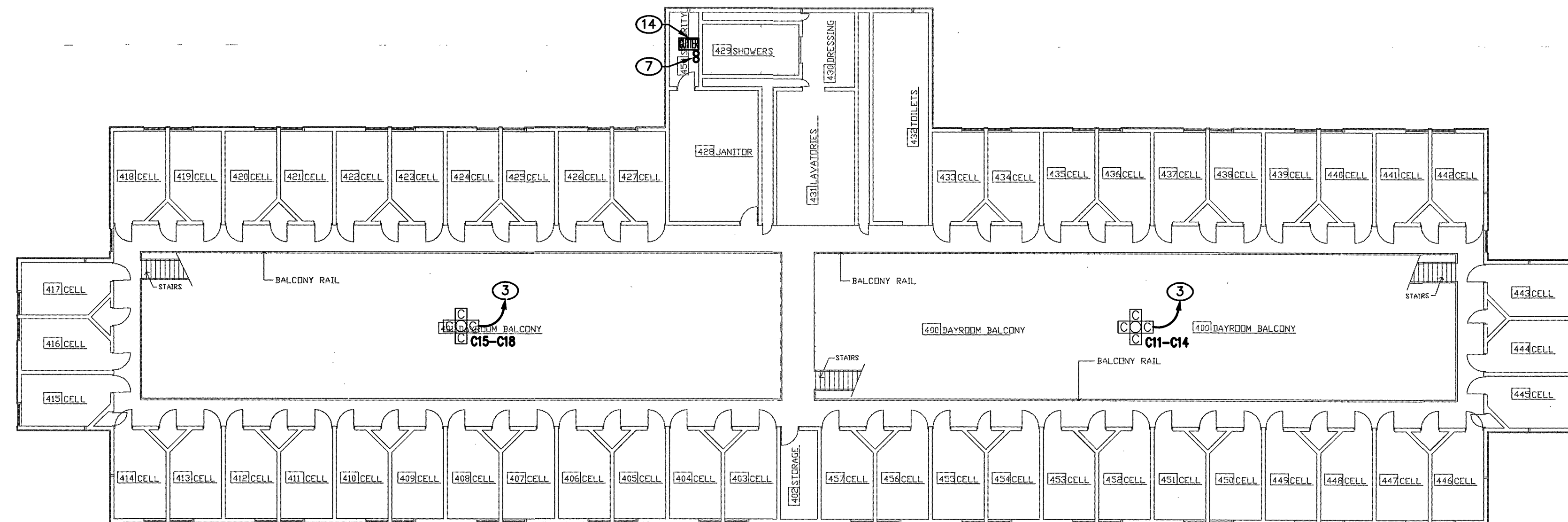
CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- CLOSED CUSTODY

OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS	
333 North Rancho Drive LAS VEGAS, NEVADA 89106 PHONE: (702) 229-6535 FAX: (702) 384-8446 TDD: (702) 384-8108	
DRAWN: MTAYLOR	
FILE: 3082E43DVG	
DATE: DECEMBER 2013	
SCALE: AS NOTED	
DID NO: 1348808-TB	
PLANS LIBRARY: 513-55ZQ	
WARRANTY: 48808	
SHEET NO: E4.3	



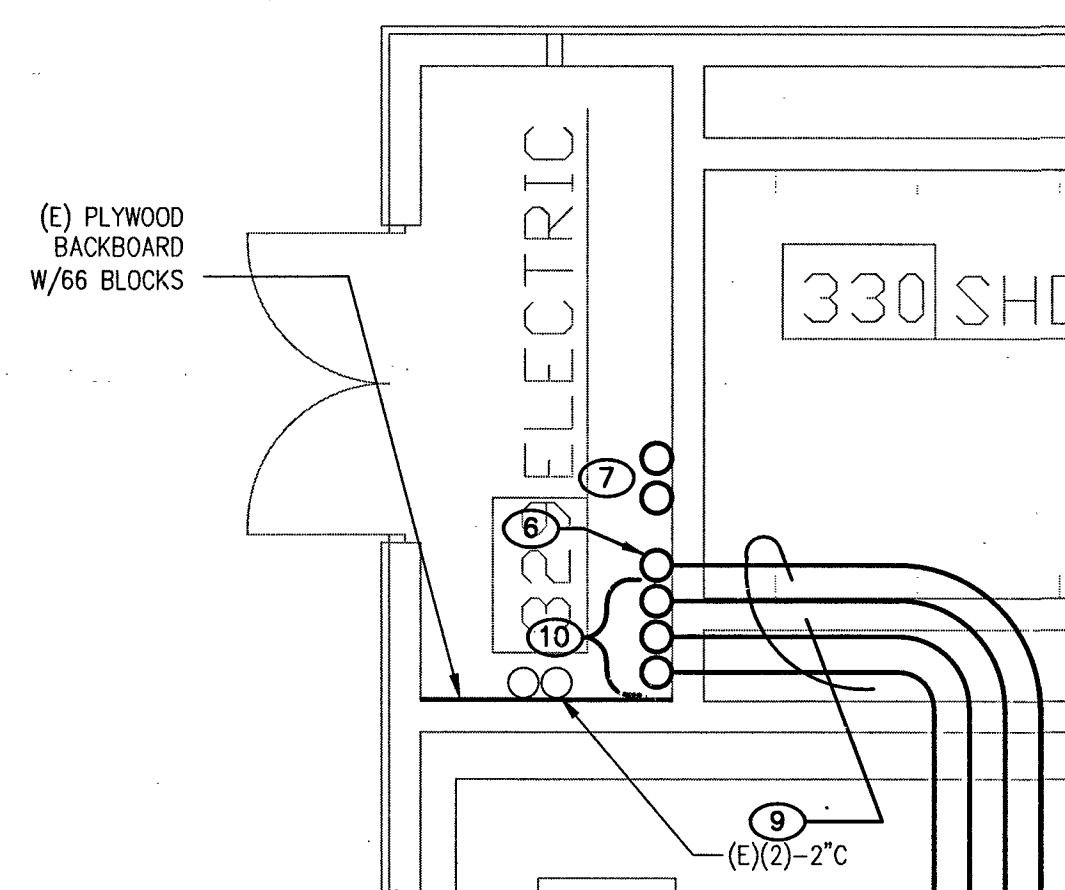
ELECTRICAL AUXILIARY PLAN - UNITS 5 & 6 - FIRST FLOOR

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



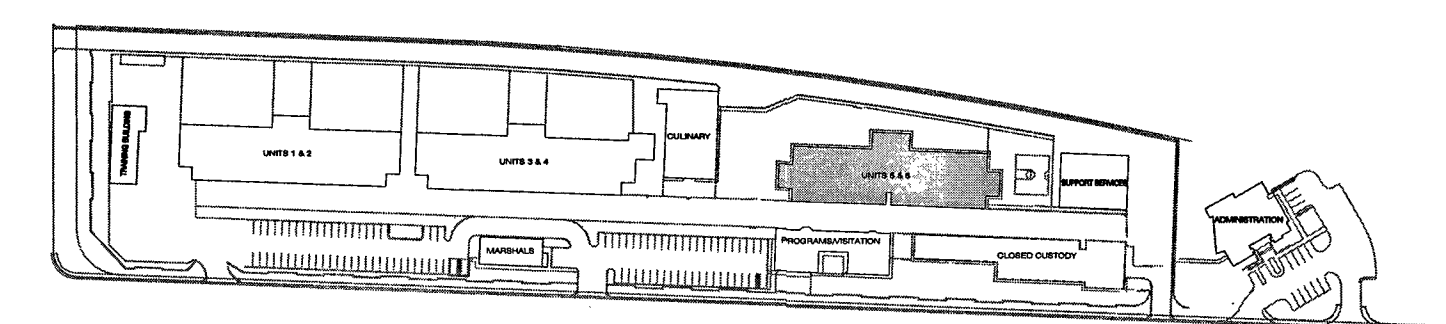
ELECTRICAL AUXILIARY PLAN - UNITS 5 & 6 - SECOND FLOOR

SCALE: 1/18" = 1'-0"



ENLARGED PLAN - UNITS 5 & 6 - FIRST FLOOR

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



KEY PLAN

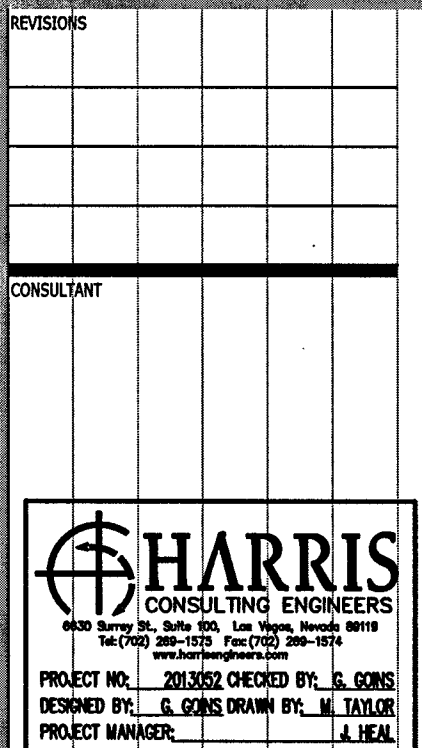
KEYED NOTES

- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO THE EXISTING TELEPHONE RACK LOCATED IN THE 1ST FLOOR ELECTRIC ROOM 329.
- ROUTE (1)-NEW 3/4" CONDUIT WITH PULLSTRING UP TO ROOFTOP GUTTER LOCATED ABOVE 2ND FLOOR SECURITY ROOM 458.
- ROUTE (1)-NEW 1" CONDUIT WITH PULLSTRING UP TO ROOFTOP GUTTER LOCATED ABOVE 2ND FLOOR SECURITY ROOM 458.
- ROUTE (1)-NEW 1-1/4" CONDUIT WITH (6)-NEW CAT 6 CABLES TO EXISTING TELEPHONE RACK LOCATED IN THE 1ST FLOOR ELECTRIC ROOM 329.
- ROUTE (1)-NEW 1-1/4" CONDUIT WITH PULLSTRING UP TO THE EXISTING SECURITY RACK LOCATED IN THE 2ND FLOOR SECURITY ROOM 458.
- ROUTE (1)-NEW 2" CONDUIT TO THE EXISTING 2ND FLOOR SECURITY ROOM 458.
- ROUTE (2)-NEW 2" CONDUITS DOWN TO OR UP FROM THE 1ST FLOOR TELEPHONE ENTRY LOCATION IN ELECTRIC ROOM 329.
- ROUTE (4)-NEW 2" CONDUITS UNDERGROUND TO NEW MANHOLE MH3. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY FROM NEW MANHOLE MH3. RE: 1/E5.1 AND 1/E5.2 RACEWAY SINGLE-LINE DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.
- ROUTE (3)-NEW 2" CONDUITS INTO EXISTING ELECTRIC ROOM 329.
- EXISTING 3/4" CONDUIT TO REMAIN. REMOVE EXISTING CABLE AND REPLACE WITH (2)-NEW CAT 6 CABLES AND ROUTE TO EXISTING TELEPHONE RACK LOCATED IN ELECTRIC ROOM 329.
- 12"x 12"x 6" PULLBOX.
- ROUTE (1)-NEW 1-1/4" CONDUIT WITH PULLSTRING UP TO ROOF THEN TO 2ND FLOOR IT ROOM.
- 12" x 12" x 36" N3R GUTTER LOCATED ON ROOF ABOVE SECURITY ROOM 458 WITH (2)-2"C TIED IN THRU ROOF.

GENERAL NOTES

- ALL CONDUIT AND CABLING HAS BEEN INSTALLED FOR SECURITY.

RECORD DRAWING, JAN. 07, 2015
This record drawing has been prepared in part, based upon information furnished by others. While this information is believed to be reliable, Harris Consulting Engineers LLC cannot assure its accuracy, and is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.



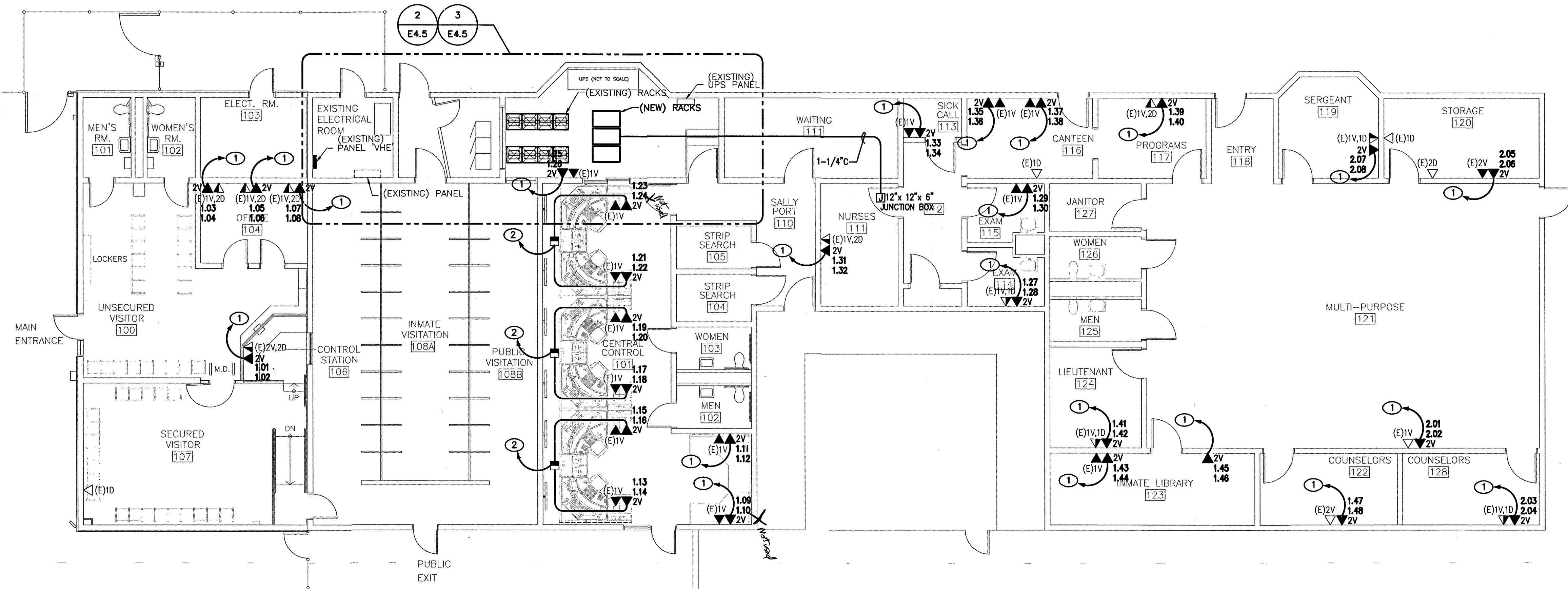
**CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- UNITS 5 & 6**

**OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS**

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 222-8535
FAX: (702) 384-4846
TDD: (702) 386-7108

**DRAWN: MTAYLOR
FILE: 3052E44.DWG
DATE: DECEMBER 2013
SCALE: AS NOTED
DID NO: 13.48808-TB
PLANS LIBRARY: 513-55ZQ
Hansen: 48808
SIT NO:**

E4.4



KEYED NOTES

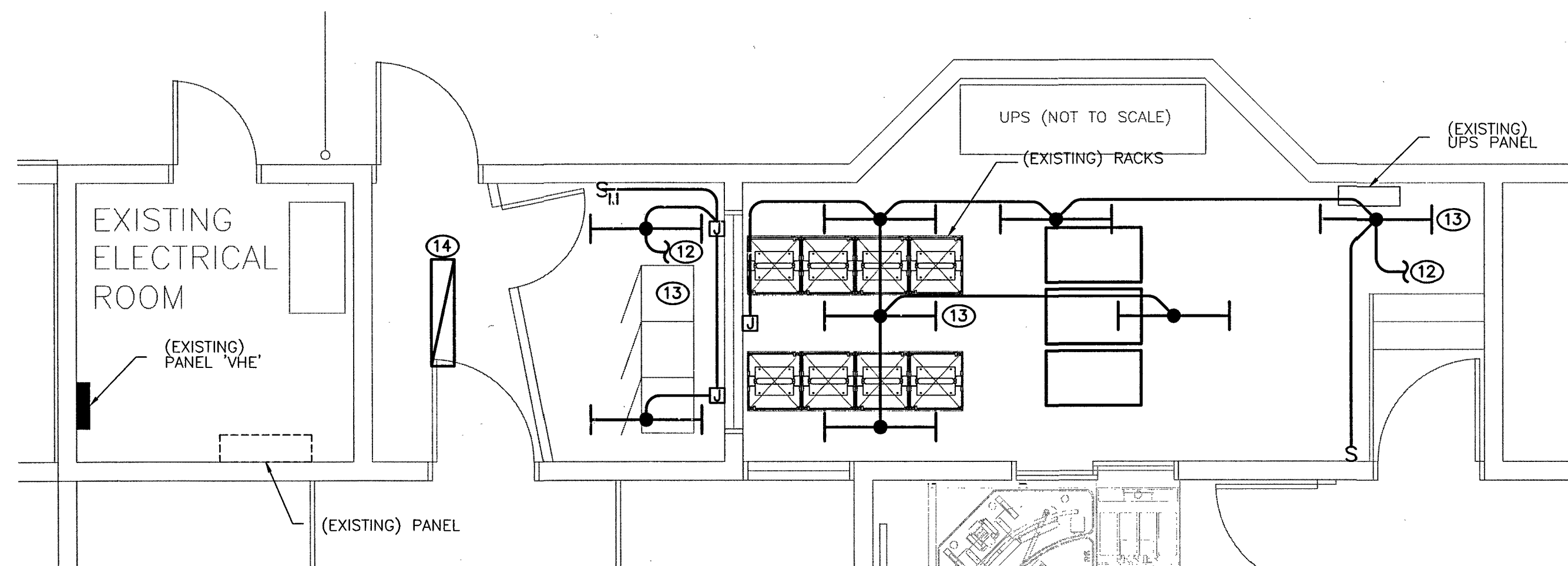
- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO DESIGNATED TELEPHONE RACK LOCATED IN THIS BUILDING.
- ROUTE (1)-NEW 1" CONDUIT WITH (4)-NEW CAT 6 CABLES TO THE DESIGNATED TELEPHONE RACK LOCATED IN THIS BUILDING. USE EXISTING POWER POLE FROM CEILING TO PARTITION RACEWAY SIMILAR TO EXISTING CABLE ROUTING. USE THE EXISTING CABLE TRAY ABOVE CEILING WHERE POSSIBLE.
- ROUTE (4)-NEW 4" CONDUITS UNDERGROUND TO NEW MANHOLE MH3. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- PROVIDE AND INSTALL NEW 18" WIDE WITH 6" RUNG SPACED LADDER RACK AT THIS LOCATION. SUPPORT FROM STRUCTURE. ALLOW ADEQUATE HEIGHT BETWEEN CABLE TRAY AND EQUIPMENT FOR CABLE ENTRY.
- PROVIDE (2)-NEW 2" CONDUITS ROUTED ABOVE CEILING TO EXISTING TELEPHONE ENTRY LOCATION.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY LOCATION FROM NEW MANHOLE MH3. RE: 1/E5.1 AND 1/E5.2 RACEWAY SINGLE-LINE DIAGRAM FOR MORE INFORMATION AND REQUIREMENTS.
- NEW ROOF TOP UNIT RTU-1-1 480V, 3A, 20A MOCP. PROVIDE 30A FUSED DISCONNECT, NEMA 3R ON UNI-STRUT FRAME. CONNECT TO EXISTING PANEL "VHE" WITH 3-#10, #106, 3/4" C. PROVIDE NEW 20A, 3P CIRCUIT BREAKER IN PANEL. MAKE FINAL CONNECTIONS TO ROOF TOP UNIT FROM DISCONNECT.
- PROVIDE (3) 120V, 1P, 20A CIRCUITS FROM EXISTING PANEL "UPS" TO RACK MOUNTED PLUGSTRIP.
- GENERAL CONTRACTOR TO PROVIDE 4" THICK WALL AND 36" WIDE DOOR TO ENCLOSE NEW RACKS. USE FRP WALLBOARD.
- REMOVE EXISTING CEILING MOUNTED SPEAKER.
- COORDINATE REMOVAL OF CEILING WITH THE INSTALLATION OF THE ROOF TOP UNIT AND THE GENERAL CONTRACTOR. EXISTING CEILING TO BE REMOVED AND LEFT OPEN TO STRUCTURE ABOVE.
- CONNECT TO THE EXISTING LIGHTING CIRCUIT FOR THIS ROOM.
- IN THIS ROOM ADD NEW CHAIN-HUNG, TWO-LAMP, 1'x 4' FLUORESCENT LIGHT FIXTURES (LITHONIA 'C-2-32-MVOLT-GE810S' WITH WIRE BASKET). REMOVE EXISTING 2x4 LIGHTS.
- EXISTING LIGHT FIXTURE TO REMAIN.
- RELOCATE SMOKE DETECTOR TO CONDUIT HUNG IN NEW ROOM.

GENERAL NOTES

- ALL CONDUIT AND CABLEING HAS BEEN INSTALLED FOR SECURITY.

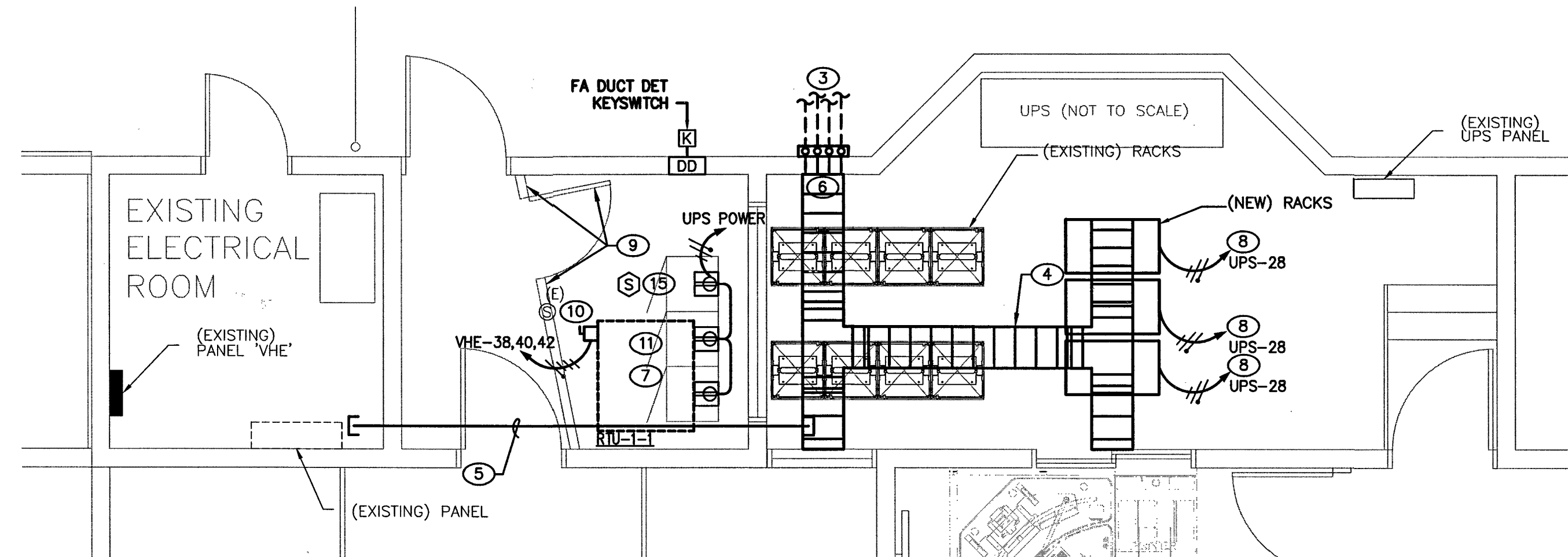
ELECTRICAL AUXILIARY PLAN - PROGRAM / VISITATION

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



ELECTRICAL LIGHTING PLAN - PROGRAM / VISITATION

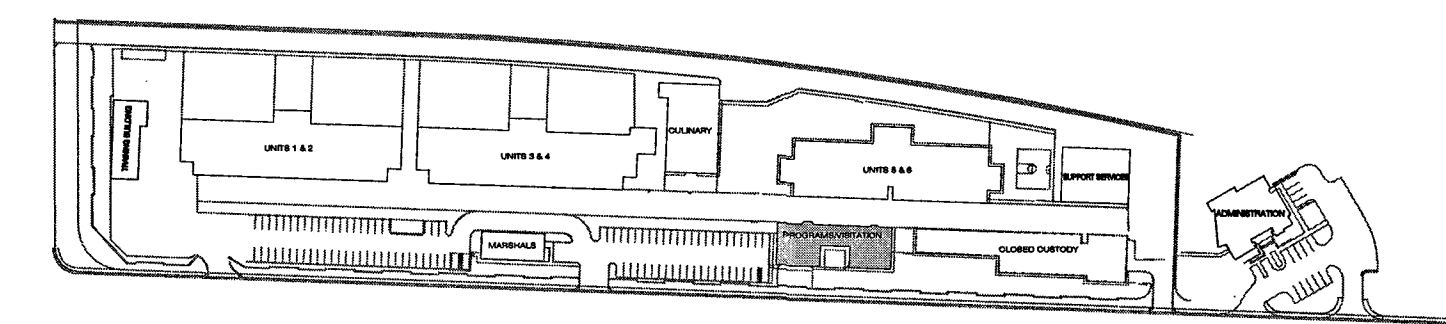
SCALE: 1/4" = 1'-0"



ELECTRICAL AUXILIARY PLAN - PROGRAM / VISITATION

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

RECORD DRAWING: JAN. 07, 2015
This record drawing has been prepared in part, based upon information furnished by others. While this information is believed to be reliable, Harris Consulting Engineers LLC cannot assure its accuracy, and is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.



KEY PLAN



REVISIONS
1 COORDINATION 4/29/2014

CONSULTANT



CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- PROGRAM/VISITATIONS

STAMP

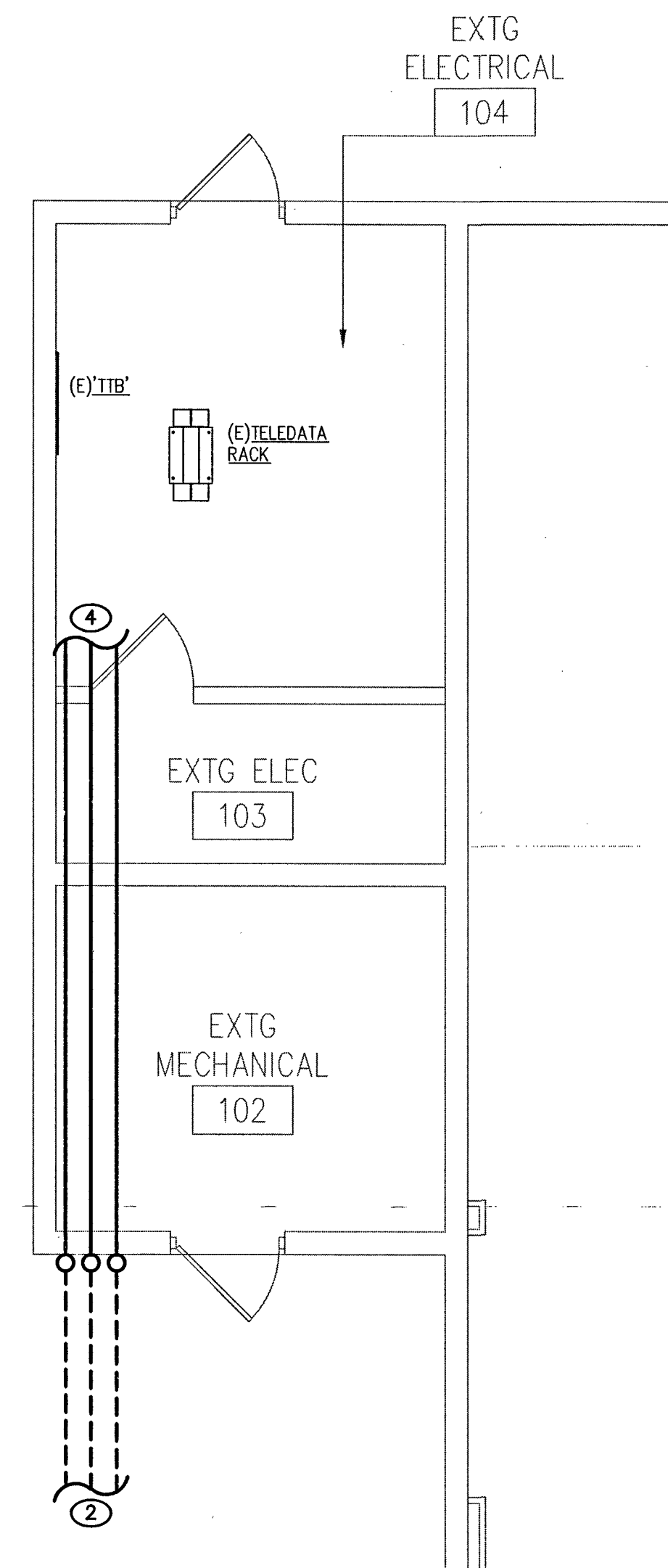
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-5535
FAX: (702) 384-8846
TDD: (702) 386-9108

DRAWN: MTAYLOR
FILE: 3052E45.DWG
DATE: DECEMBER 2013
SCALE: AS NOTED
DID NO: 1348808-TB
PLANS LIBRARY NUMBER: 513-557Q
HANSSEN: 48808

SHEET NO

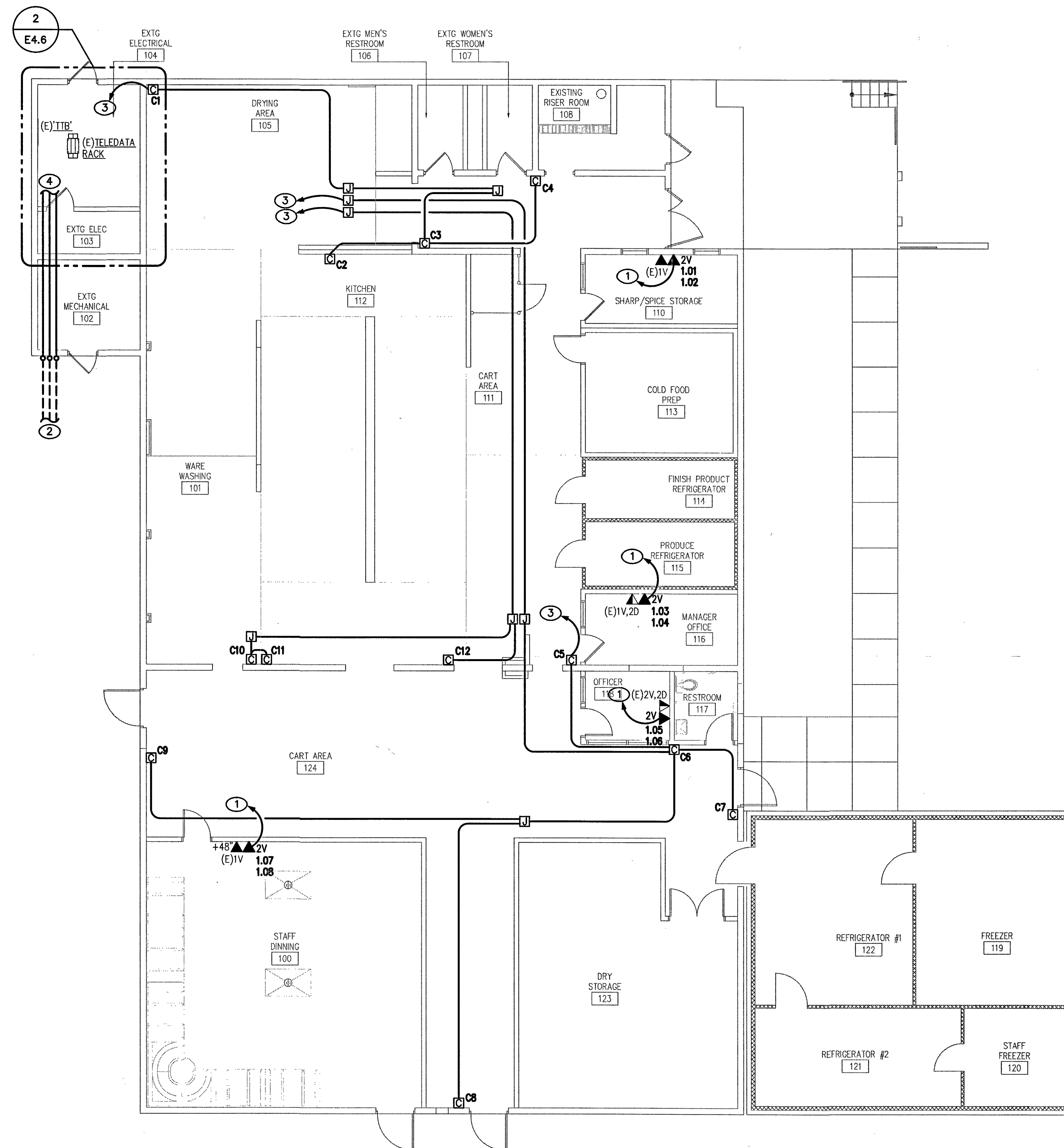
E4.5



ENLARGED AUXILIARY PLAN - CULINARY

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

2



ELECTRICAL AUXILIARY PLAN - CULINARY

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

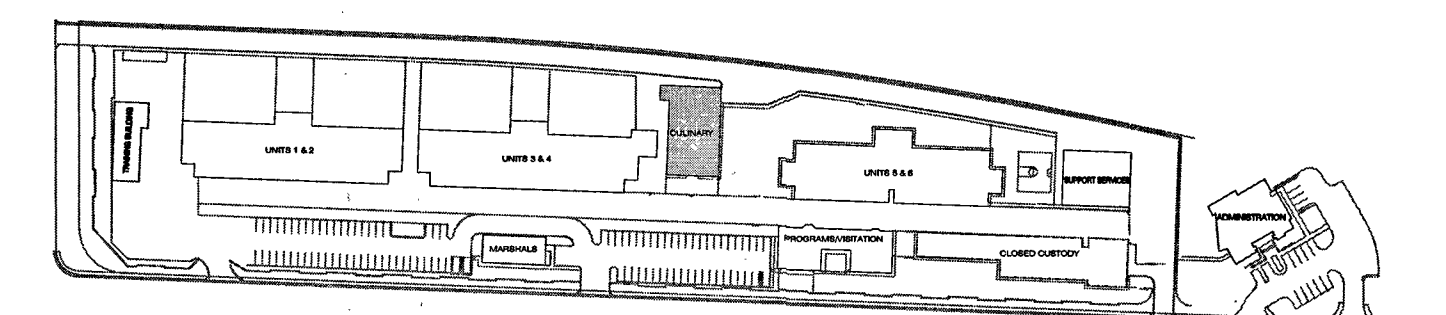
1

KEYED NOTES

- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO EXISTING TELEPHONE RACK LOCATED IN ELECTRICAL ROOM 104.
- ROUTE (3)-NEW 2" CONDUITS UNDERGROUND TO NEW MANHOLE MH4. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- ROUTE (1)-NEW 3/4" CONDUIT WITH PULLSTRING TO EXISTING SECURITY RACK LOCATED IN ELECTRICAL ROOM 104.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY FROM NEW MANHOLE MH4. RE: 1/E5.1 AND 1/E5.2 RACEWAY SINGLE-LINE DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.

GENERAL NOTES

- ALL CONDUIT AND CABLING HAS BEEN INSTALLED FOR SECURITY.

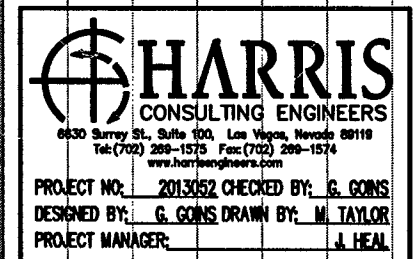


KEY PLAN



REVISIONS	DATE	BY	CHKD

CONSULTANT



PROJECT NO. 201002 CREDITED BY: J. J. JONES
DESIGNED BY: J. J. JONES DRAWN BY: J. J. JONES
PROJECT MANAGER: J. J. JONES

CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- CULINARY

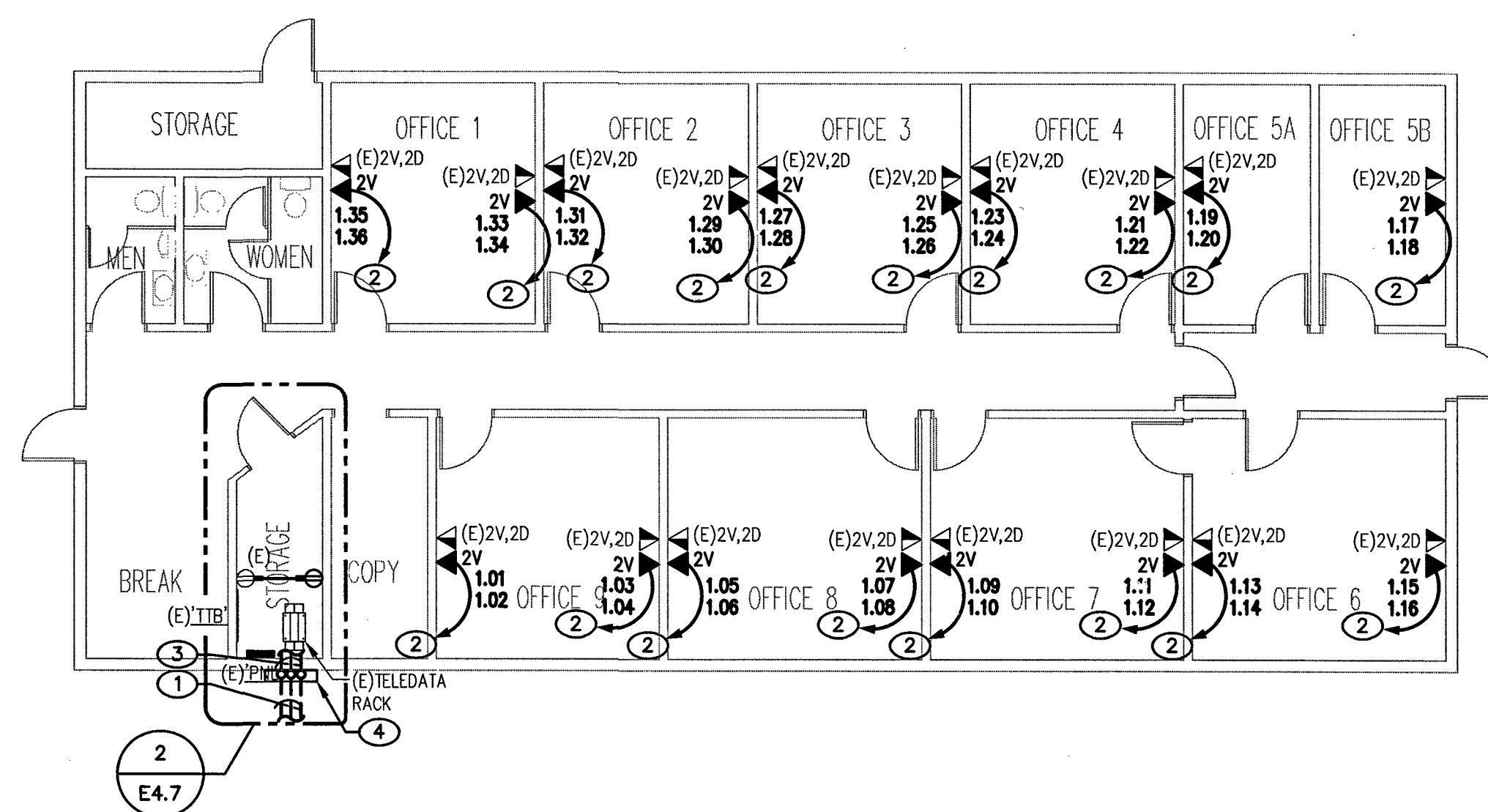
STAMP

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-5535
FAX: (702) 384-4846
TDD: (702) 384-4108

DRAWN: MTAYLOR
FILE: 1305246.DWG
DATE: DECEMBER 2013
SCALE: AS NOTED
BID NO: 1348808-TB
PLANS LIBRARY NUMBER: 513-55ZQ
HATCH: 48808
SHEET NO: E4.6

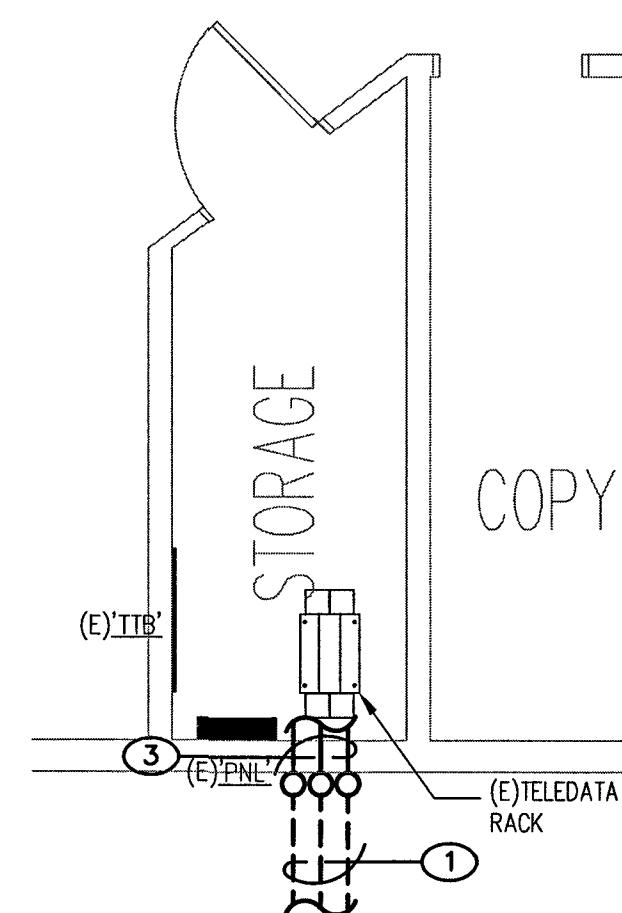
RECORD DRAWING, JAN. 07, 2015
This record drawing has been prepared in part, based upon information furnished by others. While this information is believed to be reliable, Harris Consulting Engineers LLC cannot assure its accuracy, and is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.



ELECTRICAL AUXILIARY PLAN - MARSHALS

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

1



ENLARGED AUXILIARY PLAN - MARSHALS

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

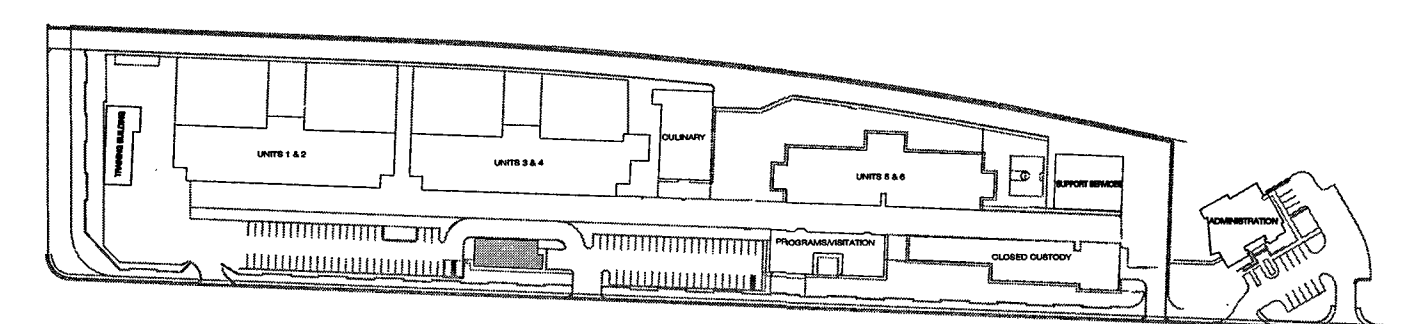
2

KEYED NOTES

- ROUTE (3)-NEW 2" CONDUITS UNDERGROUND TO NEW MANHOLE MHS. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO EXISTING COMMUNICATIONS RACK LOCATED IN THIS BUILDINGS STORAGE ROOM.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY FROM NEW MANHOLE MHS. RE: 1/E5.1 AND 1/E5.2 RACEWAY SINGLE-LINE DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.
- NEW 8"x 8"x 36" N3R GUTTER.

GENERAL NOTES

- ALL CONDUIT AND CABLING HAS BEEN INSTALLED FOR SECURITY.



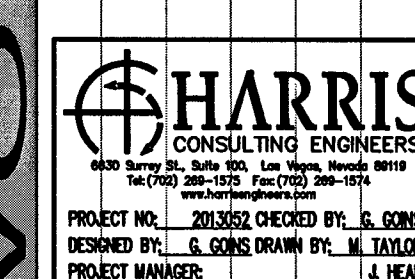
KEY PLAN



REVISIONS

NO.	DATE	DESCRIPTION

CONSULTANT



PROJECT NO. 201302 DREWED BY: S. GORIS
DESIGNED BY: S. GORIS DRAWN BY: M. J. J. J.
PROJECT MANAGER: M. J. J. J.

CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- MARSHALS

STAMP

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 222-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN: M1AYLOR

FILE: 3057E41DUG

DATE: DECEMBER 2013

SCALE: AS NOTED

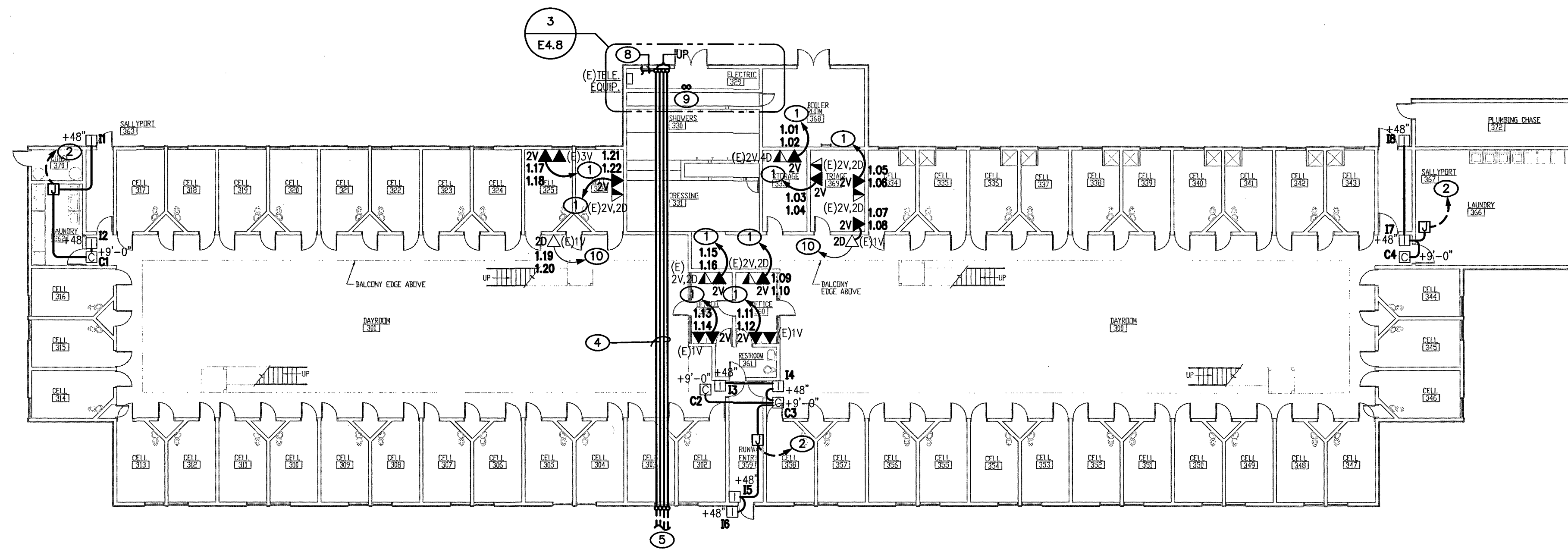
DID NO: 1348808-TB

PLANS LIBRARY: 513-557Q

NUMBER: 48808

WARRANTY: 48808

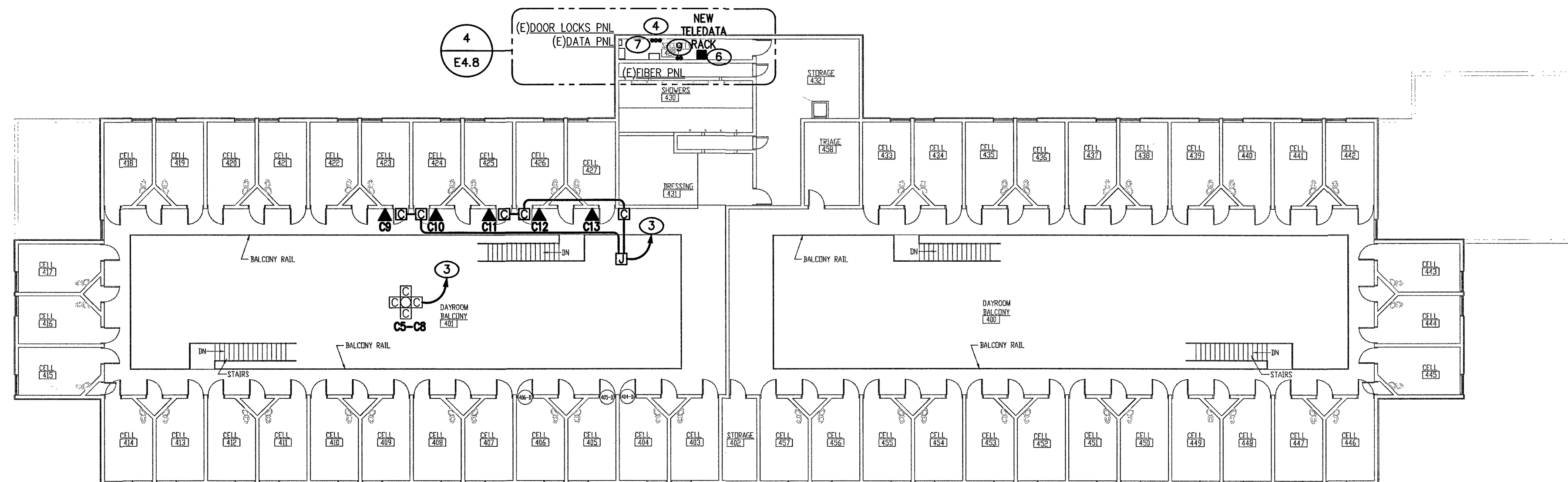
SHT NO: E4.7



ELECTRICAL AUXILIARY PLAN - UNITS 3 & 4 - FIRST FLOOR

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

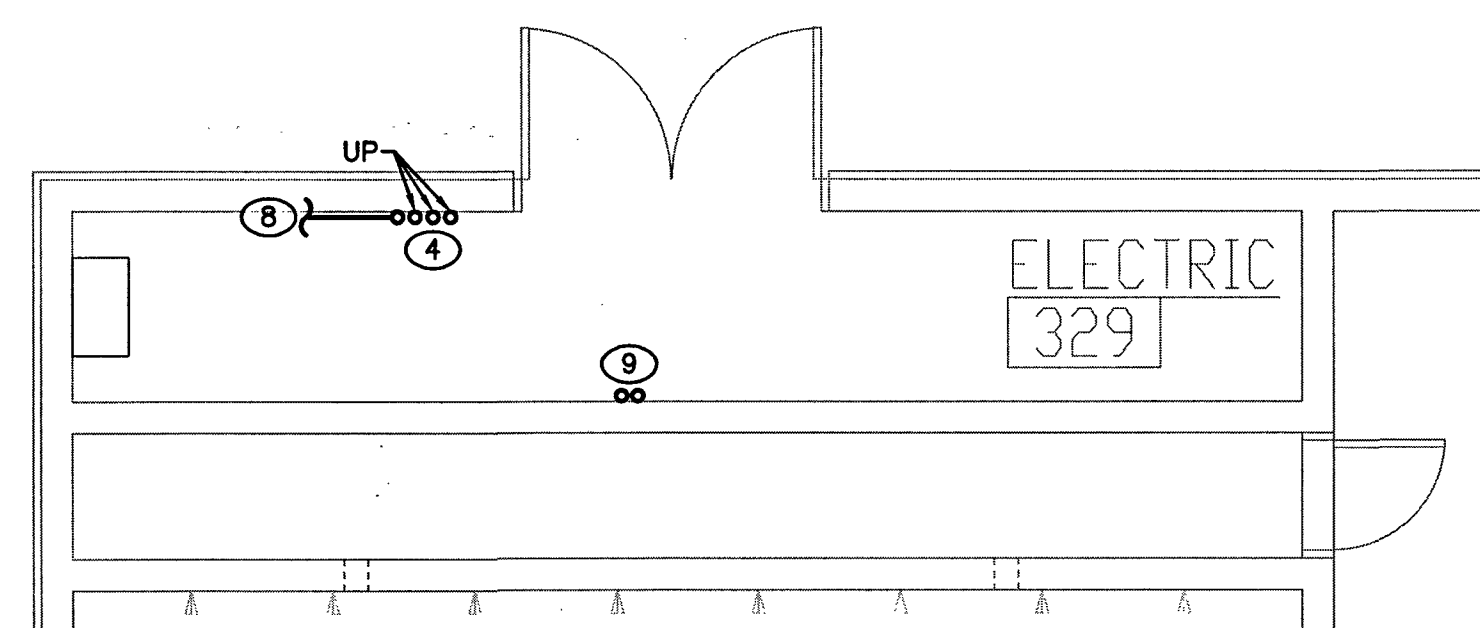
1



ELECTRICAL AUXILIARY PLAN - UNITS 3 & 4 - SECOND FLOOR

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

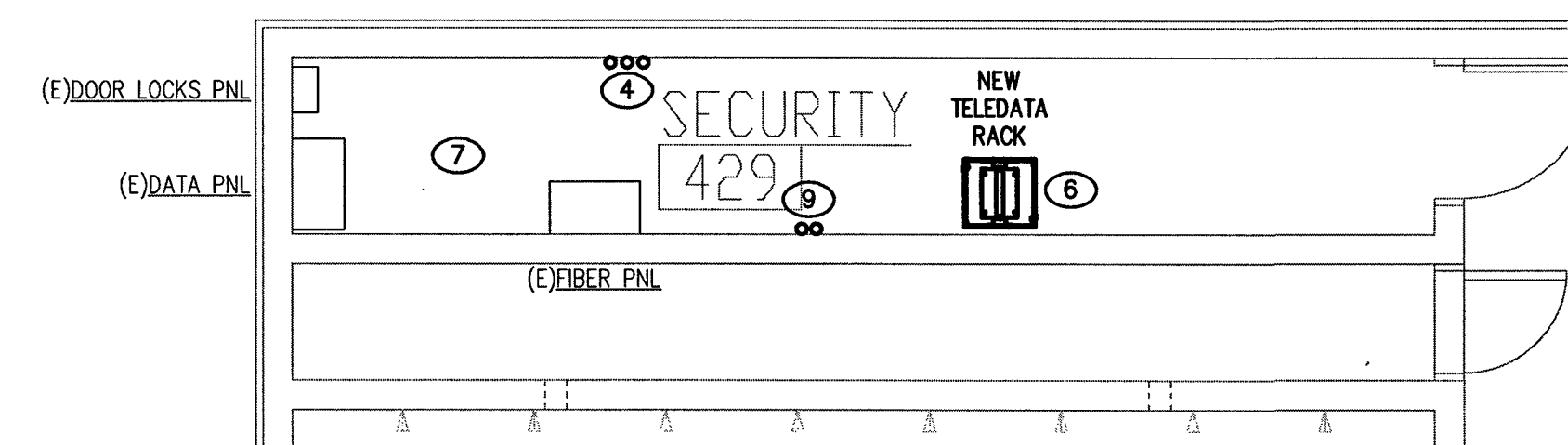
2



ENLARGED PLAN - UNITS 3 & 4 - FIRST FLOOR

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

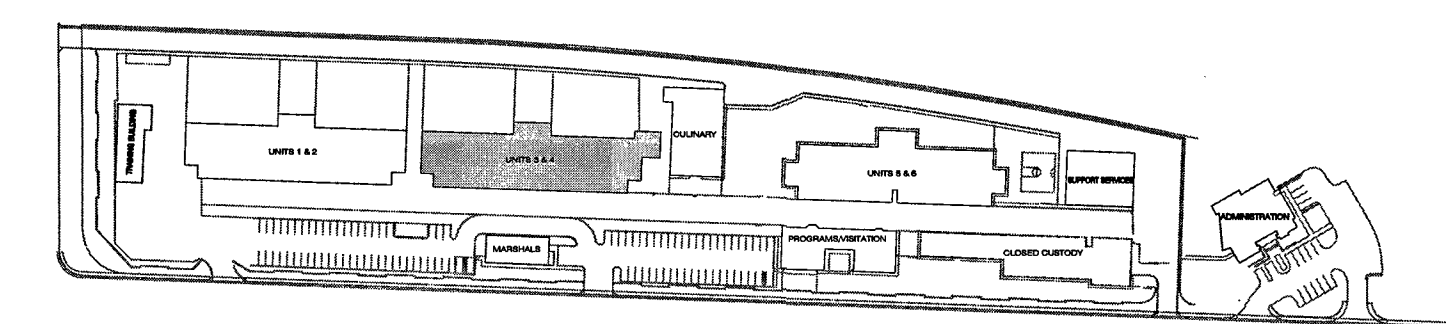
3



ENLARGED PLAN - UNITS 3 & 4 - SECOND FLOOR

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

4



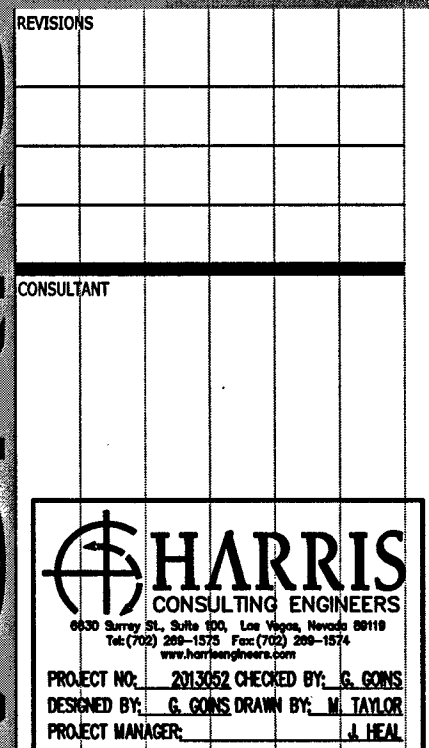
KEY PLAN

KEYED NOTES

- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO THE EXISTING TELEPHONE RACK LOCATED IN ELECTRIC ROOM 329.
- ROUTE (1)-NEW 3/4" CONDUIT WITH PULLSTRING UP TO EXISTING SECURITY RACK LOCATED IN 2ND FLOOR SECURITY ROOM 429 VIA UNDERGROUND CONDUIT ROUTED THRU 1ST FLOOR ELECTRIC ROOM 329.
- ROUTE (1)-NEW 1" CONDUIT WITH PULLSTRING TO EXISTING SECURITY RACK LOCATED IN SECURITY ROOM 429 VIA ROOF.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY FROM NEW MANHOLE MHS. RE: 1/ES.1 AND 1/ES.2 RACEWAY SINGLE-LINE DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.
- ROUTE (4)-NEW 2" CONDUITS UNDERGROUND TO NEW MANHOLE MHS. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- PROVIDE (1)-NEW CITY OF LAS VEGAS VOICE/DATA CABINET AT THIS LOCATION. TERMINATE (2)-NEW STRANDS OF CITY FIBER OPTIC CABLE IN THIS CABINET.
- TERMINATE (1)-NEW 12 STRAND SECURITY FIBER OPTIC CABLE ON THE EXISTING SECURITY RACK LOCATED IN THIS ROOM.
- TERMINATE (1)-NEW 25 PAIR COPPER VOICE CABLE ON THE EXISTING TELEPHONE RACK LOCATED IN THIS ROOM.
- PROVIDE (2)-NEW 1" CONDUIT SLEEVES FOR THE NEW CABLE ROUTE BETWEEN THE EXISTING 1ST FLOOR TELEPHONE EQUIPMENT ELECTRIC ROOM 329 AND THE EXISTING 2ND FLOOR SECURITY ROOM 429.
- THE EXISTING 3/4" CONDUIT IS TO REMAIN AT THIS LOCATION. REMOVE EXISTING CABLE AND REPLACE WITH (2)-NEW CAT 6 CABLES AND ROUTE TO THE EXISTING TELEPHONE RACK LOCATED IN ELECTRIC ROOM 329.

GENERAL NOTES

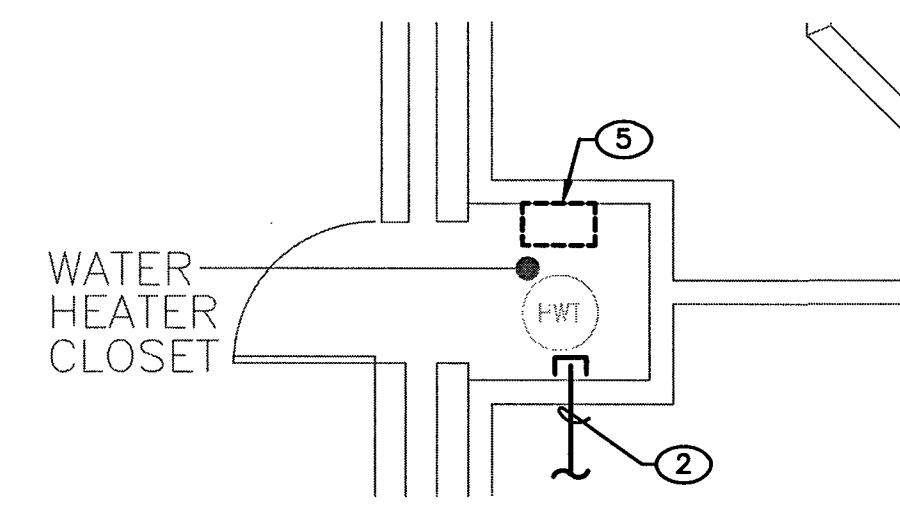
- ALL CONDUIT AND CABLEING HAS BEEN INSTALLED FOR SECURITY.



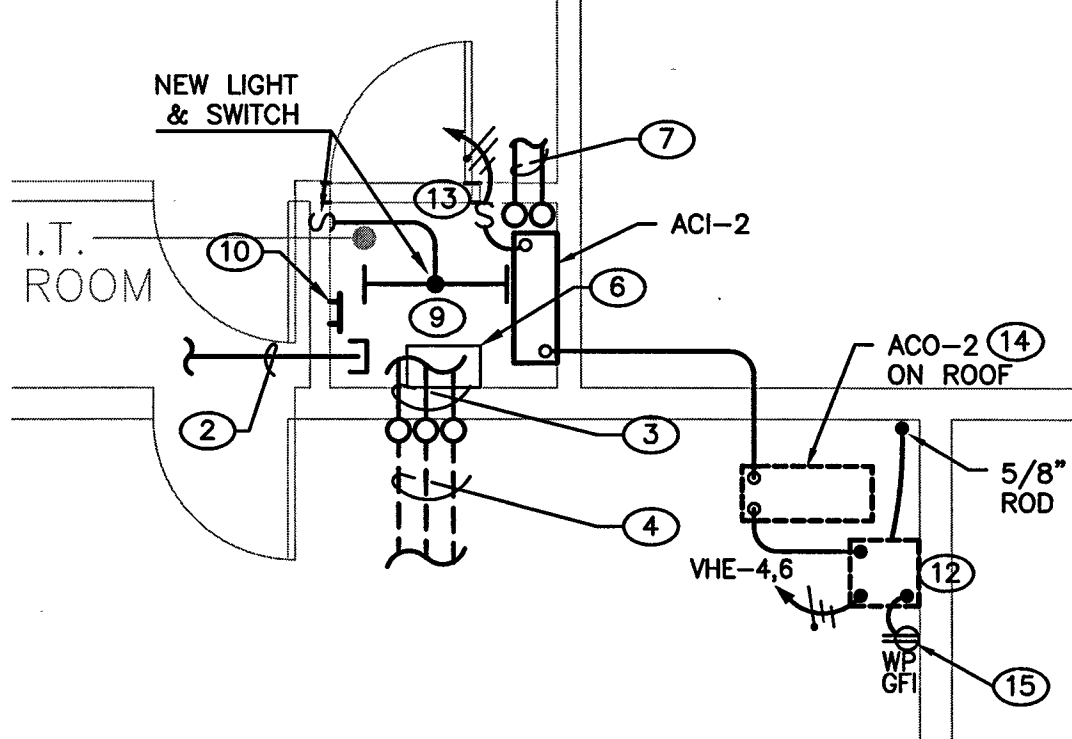
CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- UNITS 3 & 4

STAMP	OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS
333 North Rancho Drive LAS VEGAS, NEVADA 89106 PHONE: (702) 229-6535 FAX: (702) 384-4846 TDD: (702) 386-9108	DRAWN: MTAYLOR FILE: B082E48DUG DATE: DECEMBER 2003 SCALE: AS NOTED SHEET NO: 1348808-TB PLANS LIBRARY NUMBER: 513-557ZQ HARDEN # 48808 SHEET NO: E4.8

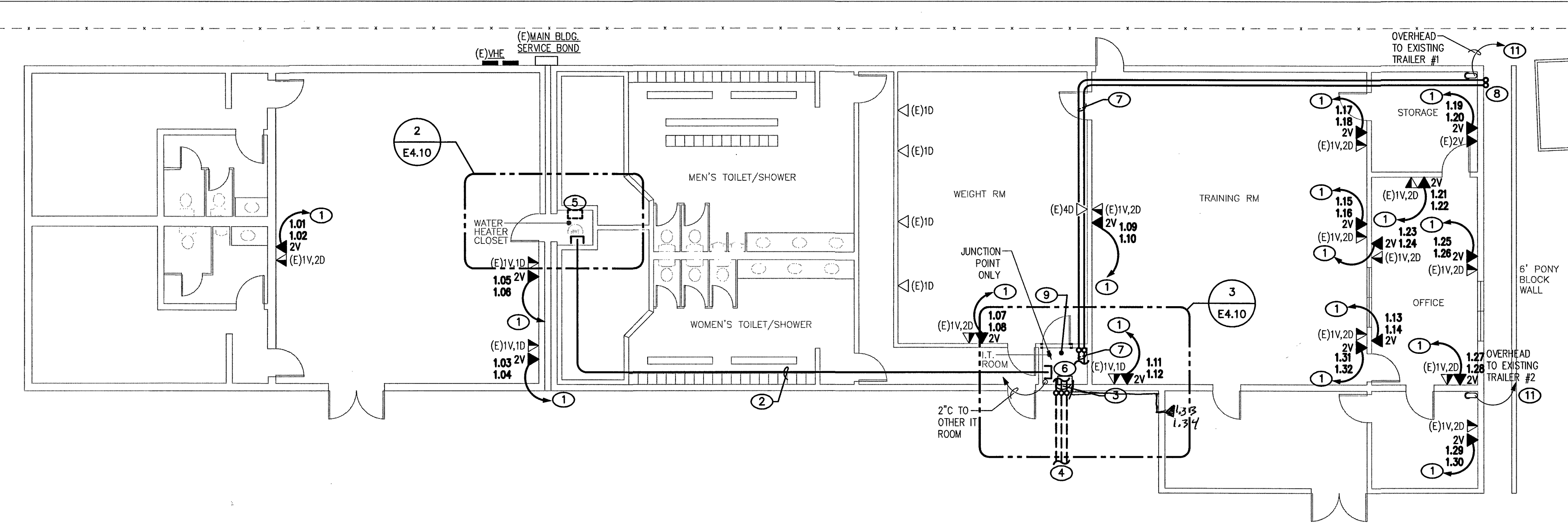
RECORD DRAWING: JAN. 07, 2015
This record drawing has been prepared in part, based upon information furnished by others. While this information is believed to be reliable, Harris Consulting Engineers LLC cannot assure its accuracy, and is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.



ENLARGED PLAN
- TRAINING BUILDING 2
SCALE: 1/4" = 1'-0"



ENLARGED PLAN
- TRAINING BUILDING 3
SCALE: 1/4" = 1'-0"



ELECTRICAL AUXILIARY PLAN - TRAINING BUILDING 1
SCALE: 1/8" = 1'-0"

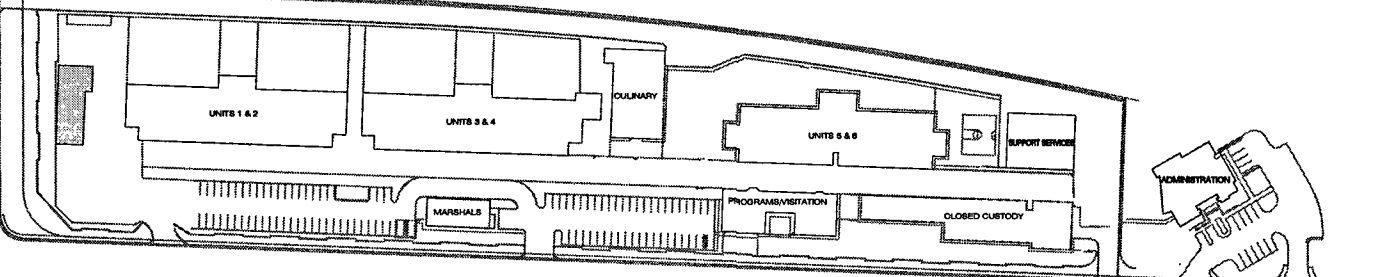
KEYED NOTES

- ROUTE (1)-NEW 3/4" CONDUIT WITH (2)-NEW CAT 6 CABLES TO THE NEW I.T. ROOM LOCATED IN THIS BUILDING.
- PROVIDE (2)-NEW 2" CONDUITS ROUTED ABOVE CEILING FROM THE NEW I.T. ROOM TO THE EXISTING WATER HEATER CLOSET LOCATED IN THIS BUILDING FOR THE AUXILIARY COMMUNICATIONS SYSTEMS CABLES.
- NEW AUXILIARY SYSTEMS BACKBONE CONDUIT ENTRY FROM NEW MANHOLE MH6. RE: 1/E5.1 AND 1/E5.2 RACEWAY SINGLE-LINE DIAGRAMS FOR MORE INFORMATION AND REQUIREMENTS.
- ROUTE (3)-NEW 2" CONDUITS UNDERGROUND TO NEW MANHOLE MH6. REFER TO SITE PLAN SHEET E1.1 FOR MORE INFORMATION AND REQUIREMENTS.
- THE EXISTING WALL MOUNTED RACK LOCATED IN THE EXISTING WATER HEATER CLOSET IS TO BE RELOCATED TO NEW I.T. ROOM IN THIS BUILDING.
- MOUNT THE EXISTING REMOVED WALL MOUNTED RACK FROM THE EXISTING WATER HEATER CLOSET WALL TO THIS LOCATION IN THE NEW I.T. ROOM.
- PROVIDE (2)-NEW 1" RIGID GALVANIZED CONDUITS WITH EACH CONTAINING A PULLSTRING UP TO AND ACROSS ROOF AS SHOWN.
- ROUTE THE (2)-NEW 1" RIGID GALVANIZED CONDUITS WITH EACH CONTAINING A PULLSTRING DOWN TO ABOVE GRADE AND CAP OFF FOR FUTURE USE.
- TERMINATE (1)-NEW 25 PAIR COPPER VOICE CABLE IN THIS ROOM. REFER TO E5.2 FOR MORE INFORMATION.
- PROVIDE (1)-NEW GROUND TERMINAL BUSS ON WALL, @ +7'-0" A.F.F. WITH BARE #1 AWG COPPER CABLE ROUTED TO EXISTING ELECTRICAL SERVICE ENTRANCE.
- EXISTING OVERHEAD LINES AT EXISTING TRAILERS TO REMAIN. EXTEND NEW CONDUIT/CABLING FOR TRAILERS TO REMAIN IN SERVICE.
- SQUARE D 480/120-240VAC, 1#, 3W, 5 KVA MINI-POWER CENTER, NEMA 3R MOUNTED ON UNI-STRUT FRAME LOCATED ON ROOF. PROVIDE (1) 15A, 2P AND (1) 15A, 1P CIRCUIT BREAKERS. CONNECT TO INDICATE PANEL WITH NEW 20A, 2P 480V CIRCUIT BREAKER AND #10 THWN.
- PROVIDE TOGGLE SWITCH AND CIRCUIT FOR CONDENSATE PUMP. CONNECT TO NEW MINI-POWER CENTER WITH 3-#12, 3/4"C.
- CONNECT NEW ACO-1 TO NEW MINI-POWER CENTER USING 3-#12, 3/4"C. CONNECT TO 15A, 2P CIRCUIT BREAKER. PROVIDE 3/4"C WITH 3-#12 TO EVAP COIL FROM CONDENSER.
- PROVIDE NEW WP. GFI RECEPTACLE ON ROOF CONNECT TO MINI-POWER CENTER WITH 3-#12, 3/4"C.

GENERAL NOTES

- ALL CONDUIT AND CABLING HAS BEEN INSTALLED FOR SECURITY.

RECORD DRAWING: JAN. 07, 2015
This record drawing has been prepared in part, based upon information furnished by others. While this information is believed to be reliable, Harris Consulting Engineers LLC cannot assure its accuracy, and is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.



KEY PLAN



REVISIONS	1	COORDINATION	2/4/2014
-----------	---	--------------	----------

CONSULTANT



CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- TRAINING BUILDING

STAMP

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

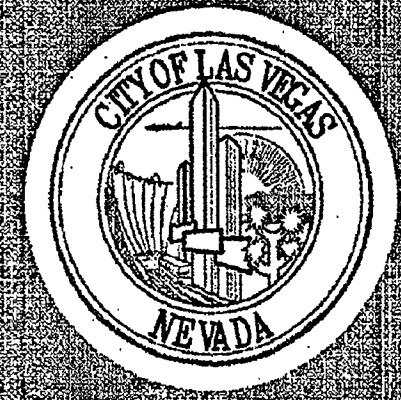
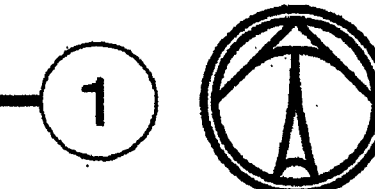
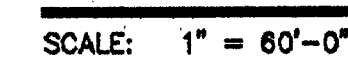
333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-5535
FAX: (702) 384-6846
TDD: (702) 384-9109

DRAWN	MTAYLOR
FILE	30524101UG
DATE	DECEMBER 2013
SCALE	AS NOTED
DID NO	13.48808-TB
PLANS LIBRARY NUMBER	513-557Q
DANSEN #	48808
SIT NO	

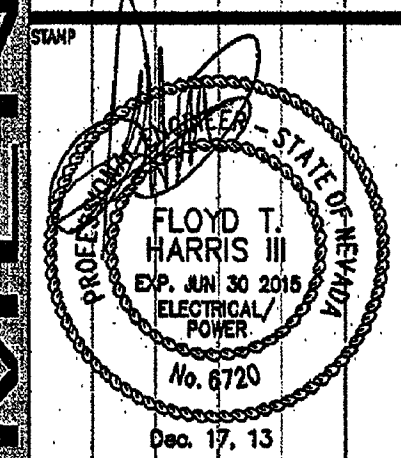
E4.10

10

- Untitled 8,505 LF
☐ MH 24"W X 36"L X 12" D 5 EA
☐ LOCATION 10 EA
☒ UNDERGROUND 1,641 LF
 Untitled 5,168 LF
☐ SURFACE MOUNTED GRC 541 LF
☒ LINE 1,859 LF
☐ LOCATION 12 EA



OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
- SITE

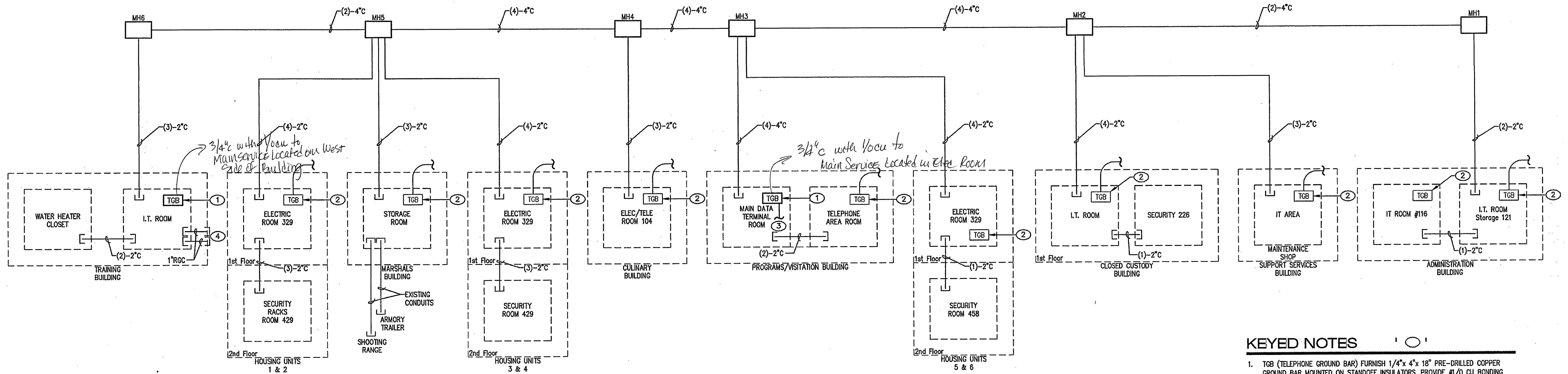


OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-5535
FAX: (702) 384-8846
TDD: (702) 386-9108

DRAWN	MTAYLOR
FILE	3055EILDUG
DATE	DECEMBER 2013
SCALE	AS NOTED
SID NO	1348808-TB
PLANS LIBRARY NUMBER	513-55ZQ
REVISION #	48808

E1.1

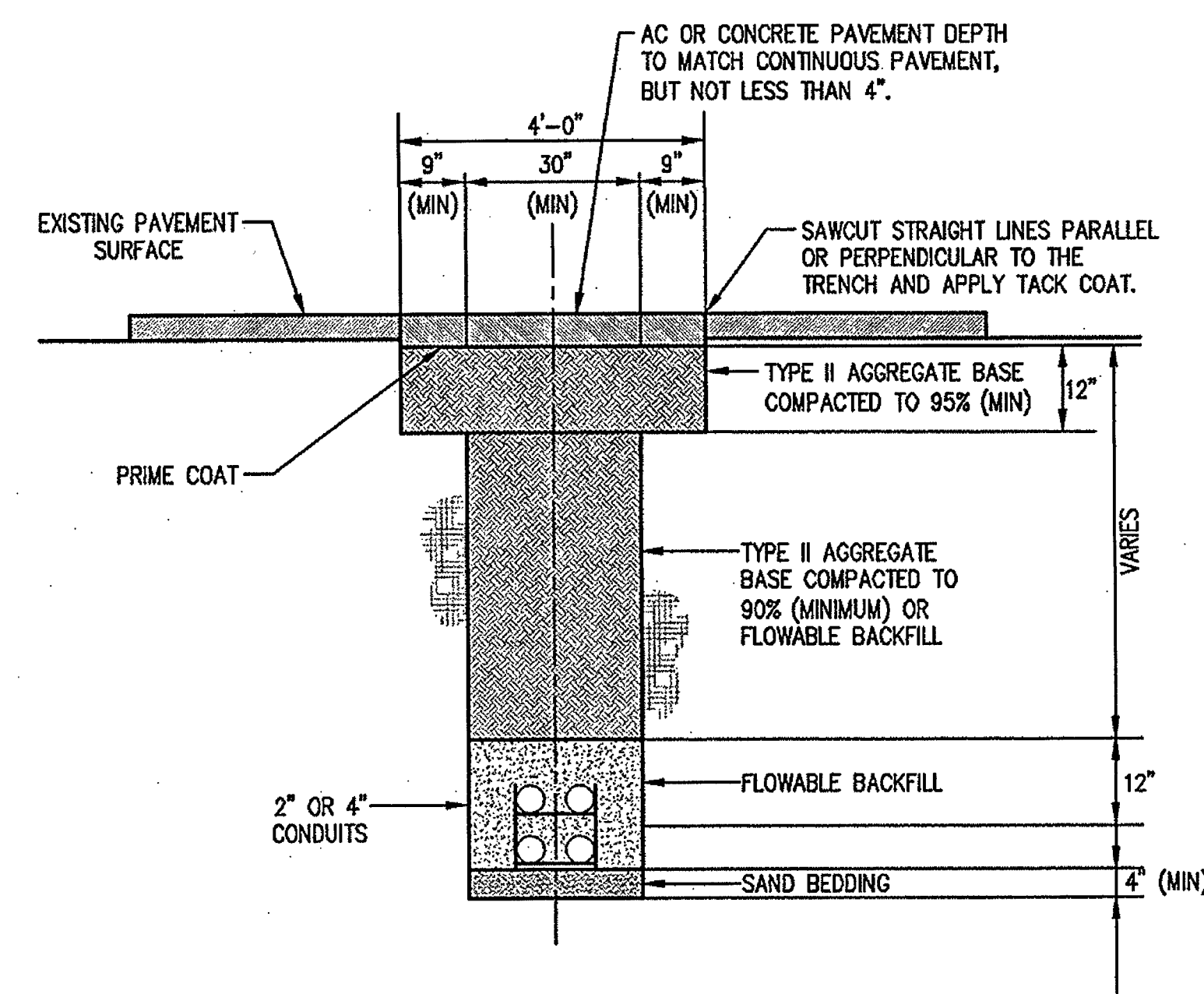


- ### KEYED NOTES
- TGB (TELEPHONE GROUND BAR) FURNISH 1/4" x 4" x 18" PRE-DRILLED COPPER GROUND BAR MOUNTED ON STANDOFF INSULATORS. PROVIDE #1/0 CU BONDING CONDUCTOR TO MAIN ELECTRICAL SERVICE ENTRY.
 - PROVIDE (1)-NEW #6 CU GROUNDING JUMPER TO EXISTING TGB IN ROOM.
 - FURNISH (1)-NEW #6 CU BONDING JUMPER TO OVERHEAD LADDER RACK AND NEW 2 POST RACKS.
 - ROUTE (2)-1" RIGID GALVANIZED CONDUIT WITH PULLSTRING DOWN TO ABOVE GRADE AND CAP OFF FOR FUTURE USE. REFER TO E1.1 AND E4.10 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

TECHNOLOGY RACEWAY AND GROUNDING DIAGRAM

SCALE: NONE

1



NOTES:

- CONCRETE SHALL BE 3500 PSI @ 4 DAYS AND 5000 PSI @ 28 DAYS.
- ASPHALT SHALL BE TRAFFIC CATEGORY II, AC-30.
- REFERENCE USED NO'S 503, 504 & 505.

TRENCH BACKFILL DETAIL

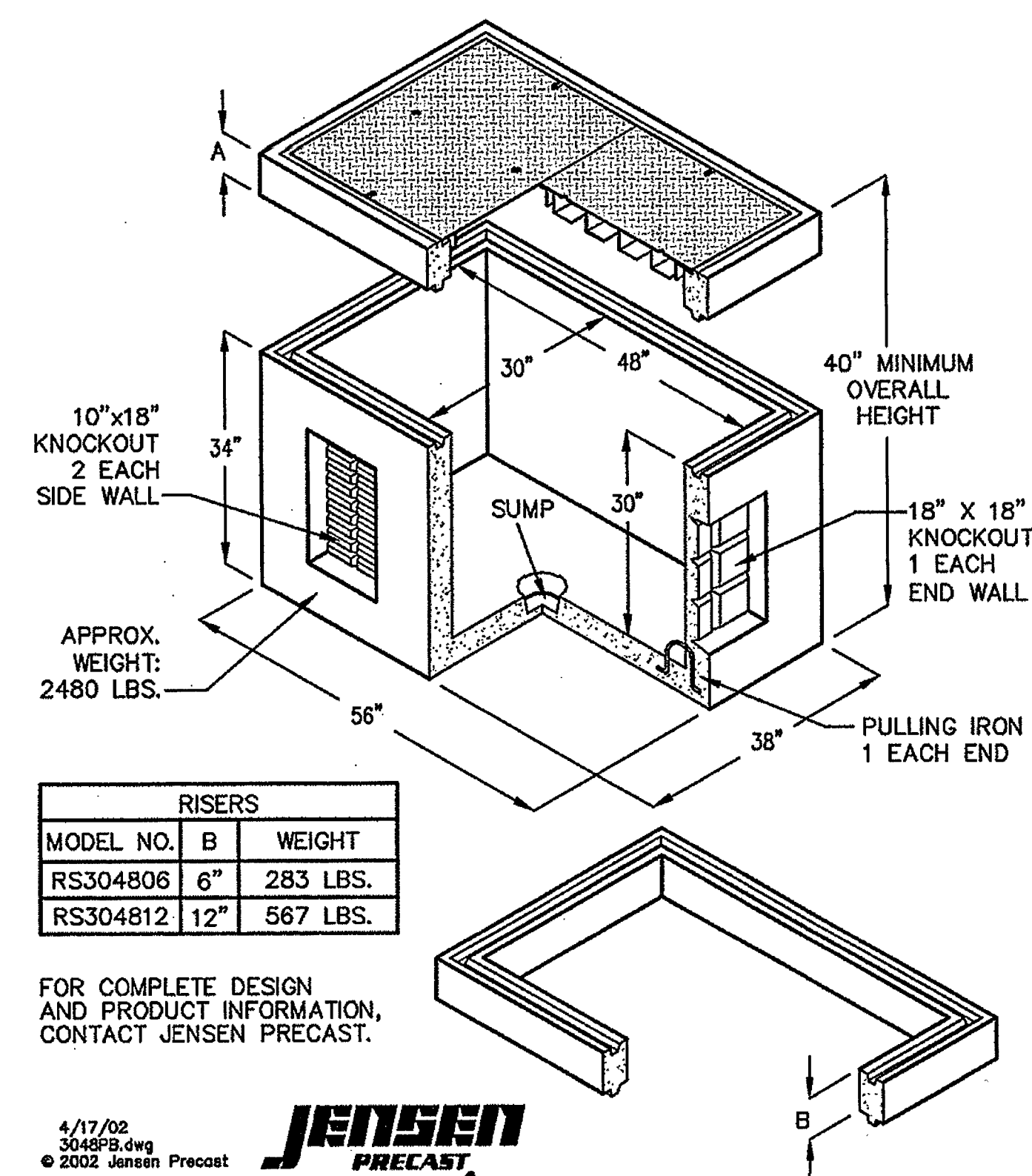
SCALE: NONE

4

STANDARD NON ADJUSTABLE COVERS			
MODEL NO.	A	DESIGN LOAD	WEIGHT
CA3048C6I	6"	INCIDENTAL H-20	580 LBS.
CA3048C6F	6"	PEDESTRIAN	490 LBS.

3048 PULLBOX

MODEL PB3048
2'-6" x 4'-0" x 2'-6" I.D.



FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.

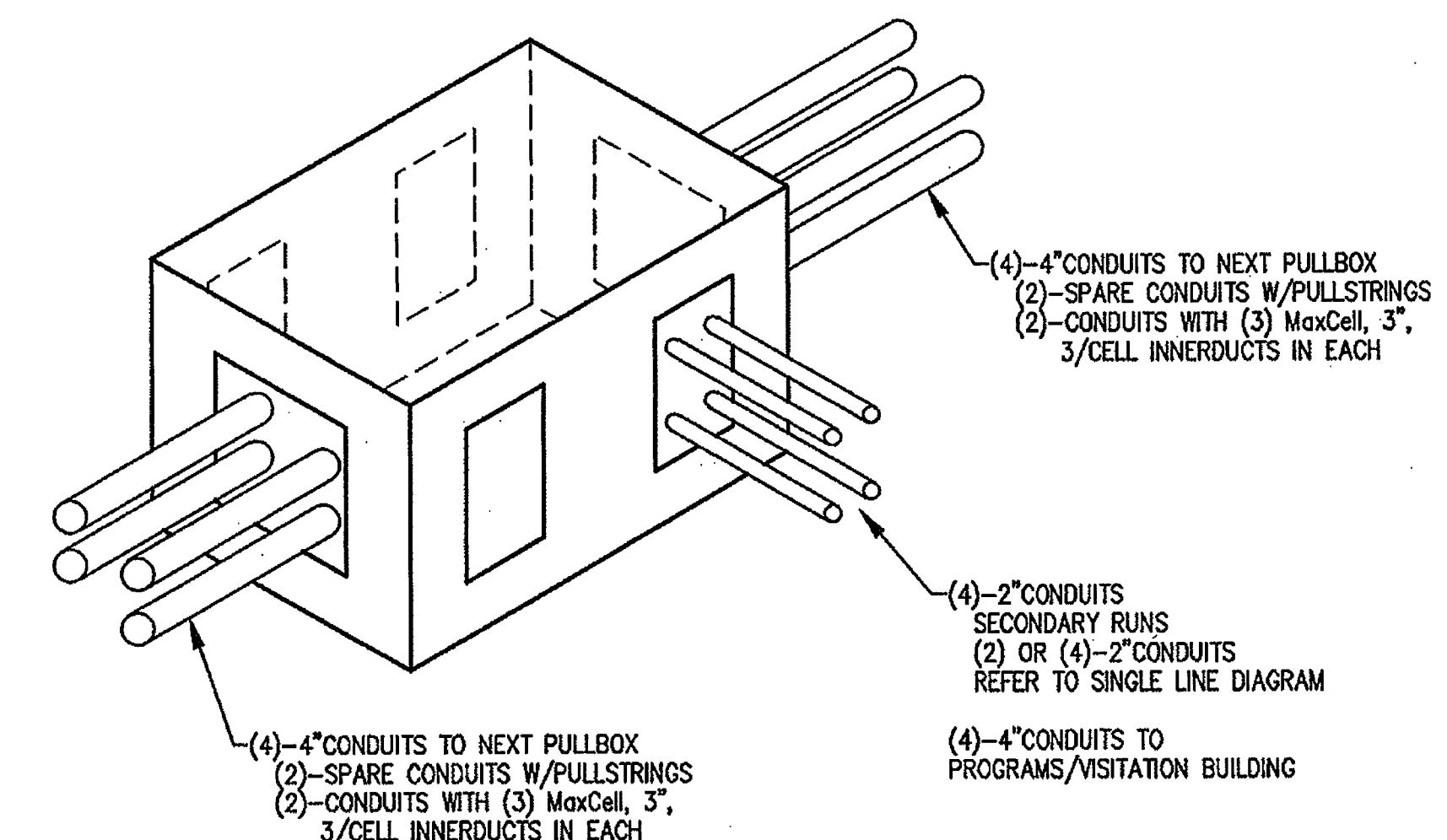
4/17/02
3048PB.dwg
© 2002 Jensen Precast

JENSEN PRECAST

PULLBOX DETAIL

SCALE: NONE

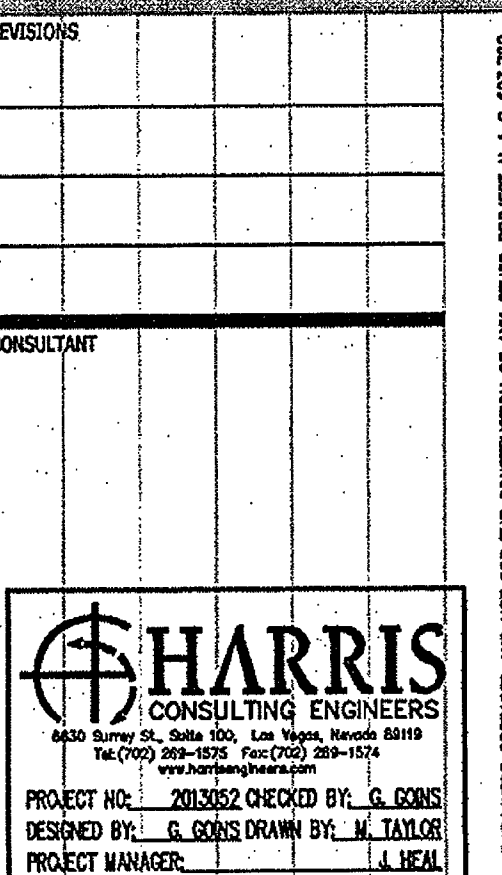
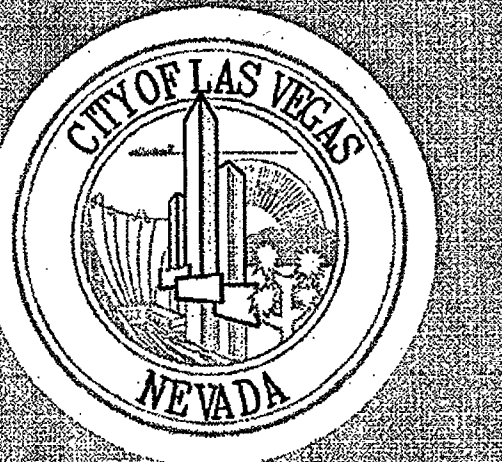
3



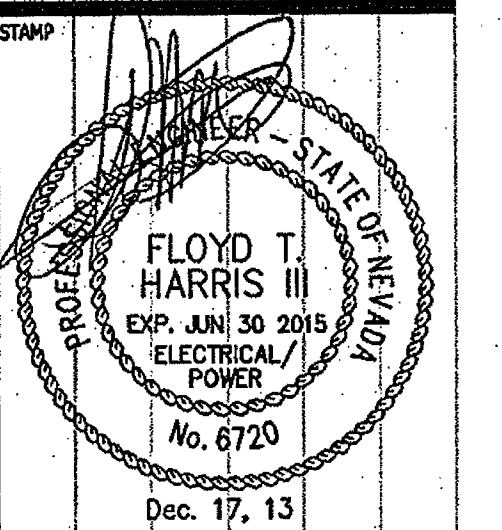
PULLBOX & MAIN CONDUIT RUN DETAIL

SCALE: NONE

2



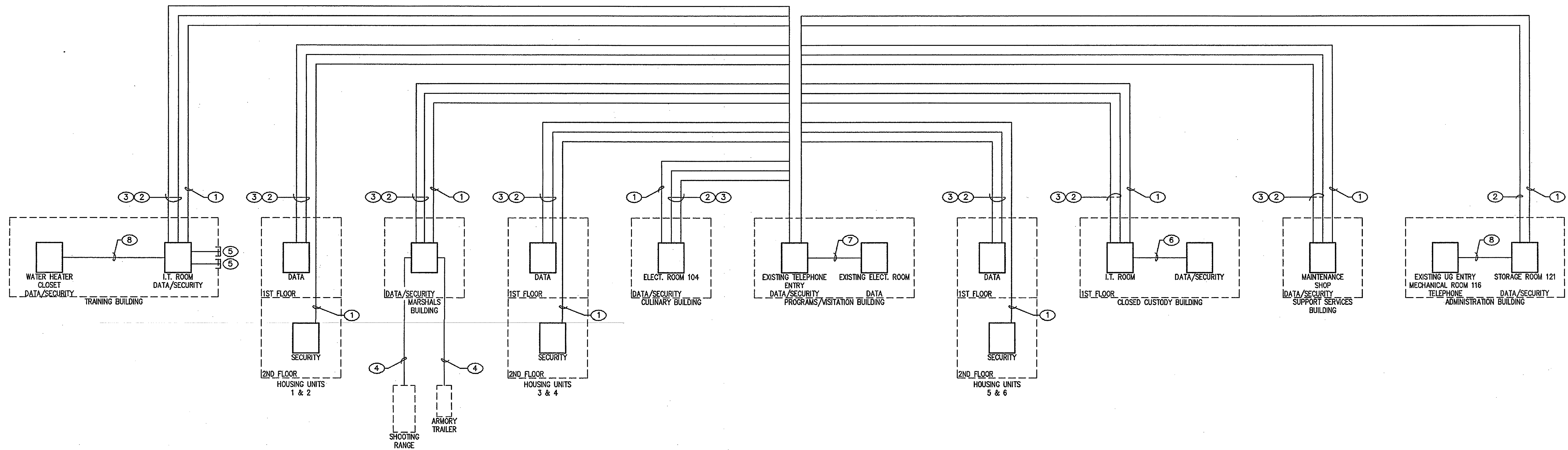
CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
RACEWAY & GROUNDING DIAGRAM



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 225-6535
FAX: (702) 384-4545
TDD: (702) 384-9108

DRAWN: HAYLOR
FILE: B02EBLDWG
DATE: DECEMBER 2013
SCALE: AS NOTED
DID NO: 13.48808-TB
PLANS LIBRARY: 513-557Q
NUMBER: 48808
SHEET NO: E5.1



DATA / VOICE CABLING RISER DIAGRAM

SCALE: NONE

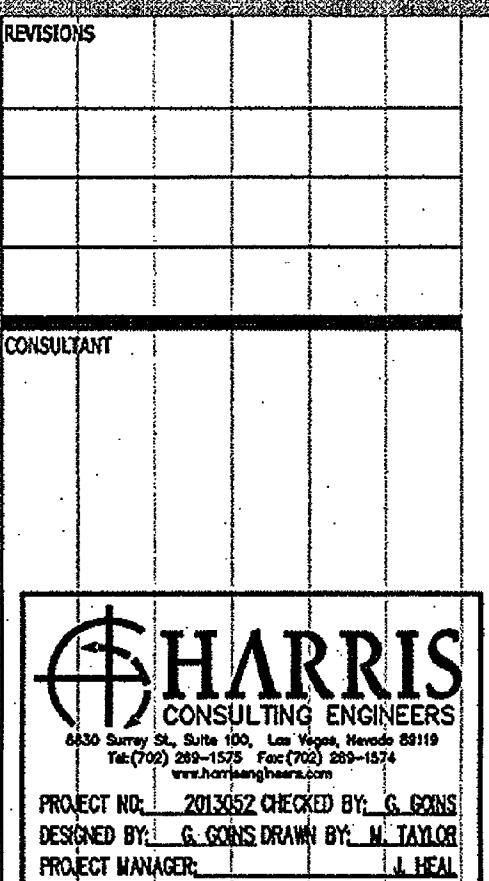
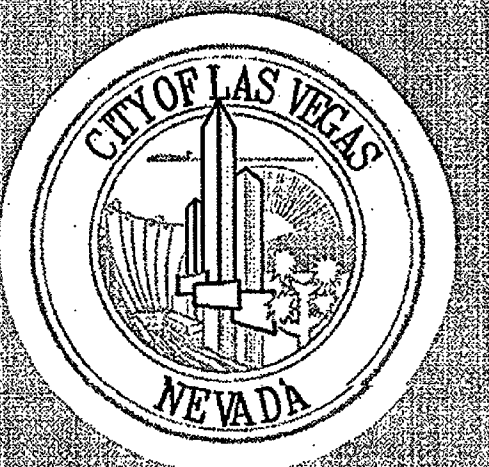
1

CABLE LEGEND

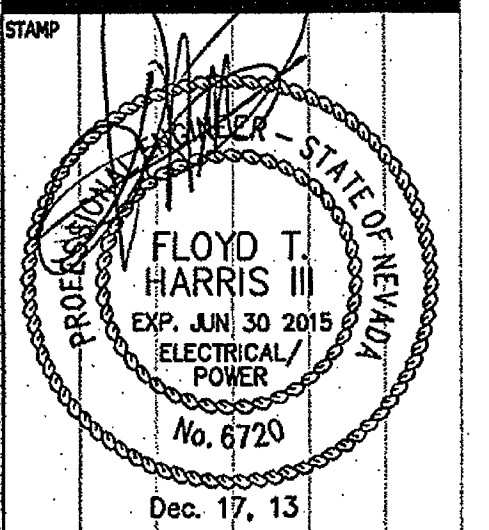
- FIBER OPTIC CABLE TYPE F1 - SINGLE MODE, 24 STRAND, LOOSE TUBE, OS2.
- FIBER OPTIC CABLE TYPE F2 - MULTI MODE, 24 STRAND, LOOSE TUBE, OM4.
- FIBER OPTIC CABLE TYPE F3 - MULTI MODE, 12 STRAND, LOOSE TUBE, OM4.
- FIBER OPTIC CABLE TYPE F4 - MULTI MODE, 6 STRAND, LOOSE TUBE, OM4.
- FIBER OPTIC CABLE TYPE F5 - MULTI MODE, 24 STRAND, TIGHT BUFFER, OFNR.
- FIBER OPTIC CABLE TYPE F6 - MULTI MODE, 12 STRAND, TIGHT BUFFER, OFNR.
- FIBER OPTIC CABLE TYPE F7 - MULTI MODE, 6 STRAND, TIGHT BUFFER, OFNR.

KEYED NOTES

- PROVIDE (1)-NEW F3 FIBER OPTIC CABLE IN (1)-NEW 2"-3-CELL MAXCELL INNERDUCT IN (1)-NEW 2" CONDUIT FOR FACILITY SECURITY SYSTEM.
- PROVIDE (1)-NEW F1 FIBER OPTIC CABLE AND (1)-NEW F2 FIBER OPTIC CABLE EACH IN (1)-NEW 2"-3-CELL MAXCELL INNERDUCT IN (1)-NEW 2" CONDUIT FOR FACILITY DATA/VOICE SYSTEM.
- PROVIDE (1)-NEW 25 PAIR FILLED COPPER UNDERGROUND TELEPHONE CABLE IN SEPARATE CONDUIT AND INNERDUCT. PROVIDE LIGHTNING PROTECTION MODULES ON EACH END OF CABLE. MAKE ALL NECESSARY TERMINATIONS.
- EXISTING ANALOG CONNECTION TO REMAIN AS IS.
- ROUTE (1)-NEW 1" RIGID GALVANIZED CONDUIT WITH PULLSTRING DOWN TO ABOVE GRADE AND CAP OFF FOR FUTURE USE. REFER TO E1.1 AND E4.10 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- PROVIDE (1)-NEW F6 FIBER OPTIC CABLE INSIDE (1)-NEW 2"-3-CELL MAXCELL INNERDUCT IN (1)-NEW 2" CONDUIT FOR FACILITY AUXILIARY COMMUNICATIONS SYSTEMS.
- PROVIDE (1)-NEW F5 FIBER OPTIC CABLE INSIDE (1)-NEW 2"-3-CELL MAXCELL INNERDUCT IN (1)-NEW 2" CONDUIT FOR FACILITY AUXILIARY COMMUNICATIONS SYSTEMS.
- PROVIDE (1)-NEW F7 FIBER OPTIC CABLE INSIDE (1)-NEW 2"-3-CELL MAXCELL INNERDUCT IN (1)-NEW 2" CONDUIT FOR FACILITY AUXILIARY COMMUNICATIONS SYSTEMS.



CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
ELECTRICAL AUXILIARY PLAN
DATA/VOICE CABLING RISER DIAGRAM

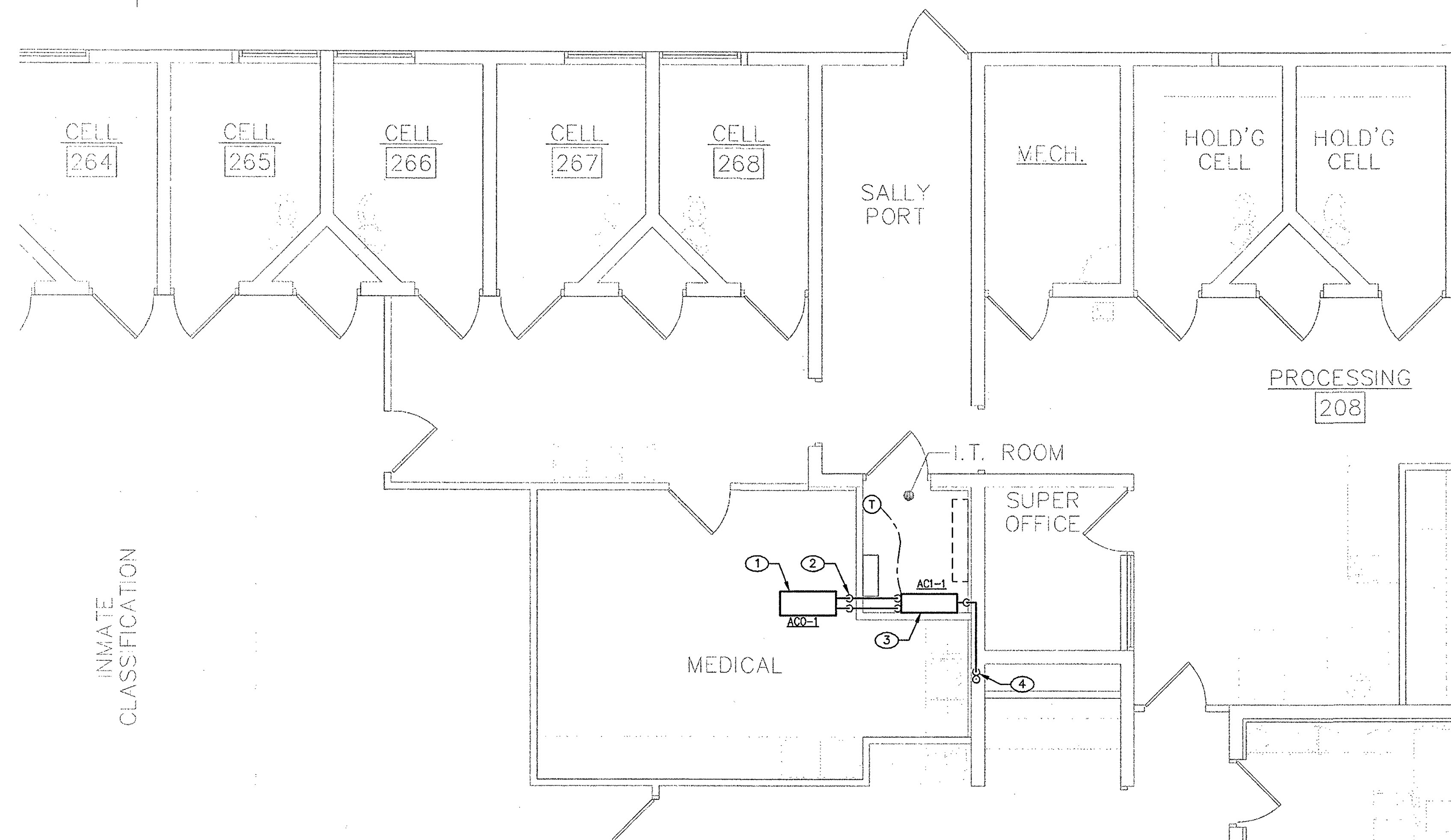


OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 386-4545
TDD: (702) 386-9108

DRAWN: HTAYLOR
FILE: 13022E52.DWG
DATE: DECEMBER 2008
SCALE: AS NOTED
BID NO: 1348808-TB
PLANS LIBRARY NUMBER: 513-55ZQ
NUMBER: 48808

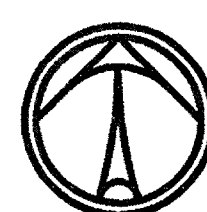
SHIFT NO: E5.2



HVAC PLAN - CLOSED CUSTODY

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

1

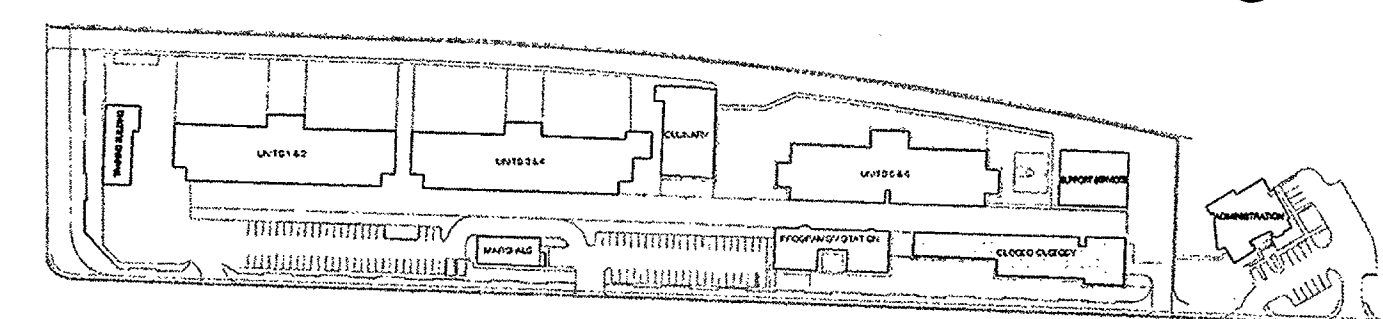


GENERAL NOTES

- DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- CONSTRUCTION SHALL CONFORM TO LOCAL CODE STANDARDS ENFORCED BY AUTHORITY HAVING JURISDICTION.
- MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL NEW PIPING. CONTRACTOR SHALL UTILIZE ALL AVAILABLE SPACE, INCLUDING BETWEEN STRUCTURAL MEMBERS. DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- PRIOR TO INSTALLATION, MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE LOCATION OF ALL THERMOSTATS, SENSORS, GRILLES AND REGISTERS WITH ARCHITECTURAL PLANS AND OWNER'S REPRESENTATIVE.
- ALL MECHANICAL EQUIPMENT, AIR DISTRIBUTION SYSTEM COMPONENTS, CONTROLS, EQUIPMENT MOUNTING, AND ACCESSORIES TO COMPLY WITH BUILDING OWNER REQUIREMENTS. COORDINATE WITH BUILDING OWNER.

KEYED NOTES

- NEW CONDENSING UNIT ON ROOF. COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS.
- REFRIGERANT LINE SET, SIZE AND ROUTE PER MANUFACTURER'S RECOMMENDATIONS.
- NEW FAN COIL MOUNTED ON WALL. COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- CONDENSATE DRAIN LINE FROM FAN COIL CONDENSATE PUMP. ROUTE TO TAILPIECE OF EXISTING SINK.



KEY PLAN

AS-BUILT

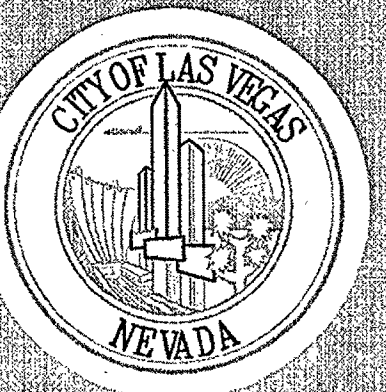
BOMBARD MECHANICAL

3933 W. ALI BABA

Las Vegas, NV 89118

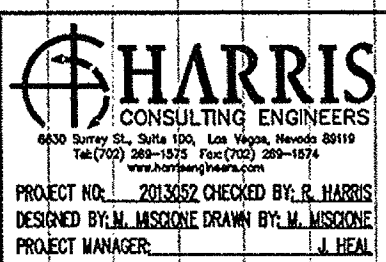
Date: 10/20/2014

Approval: *Julie D*



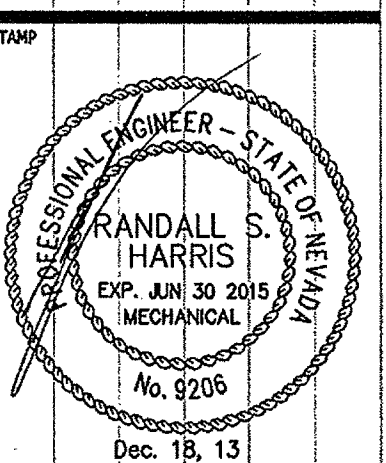
REVISIONS	DATE	BY	APP'D

CONSULTANT	DATE	BY	APP'D



CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS

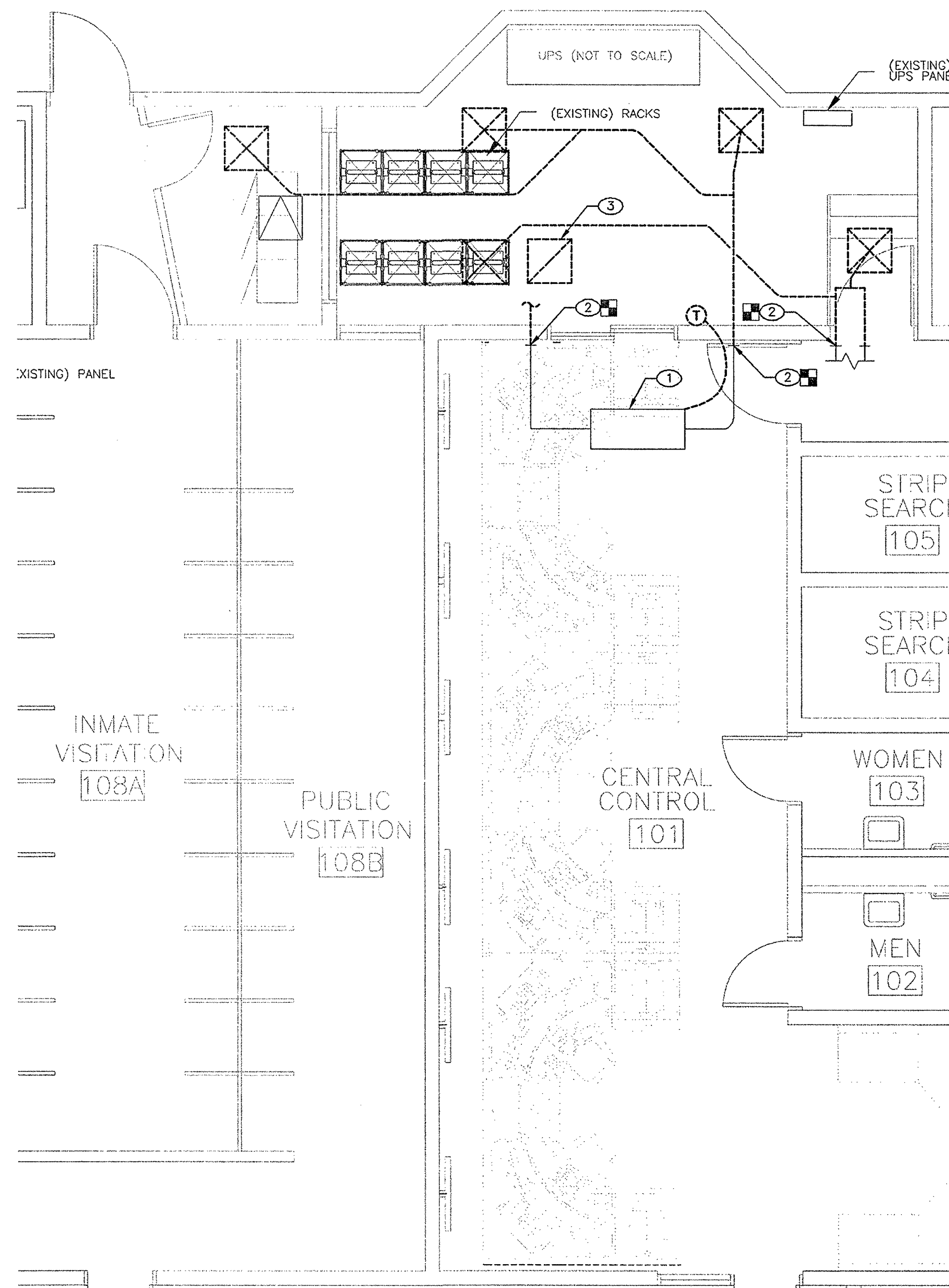
MECHANICAL HVAC PLAN
- CLOSED CUSTODY



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

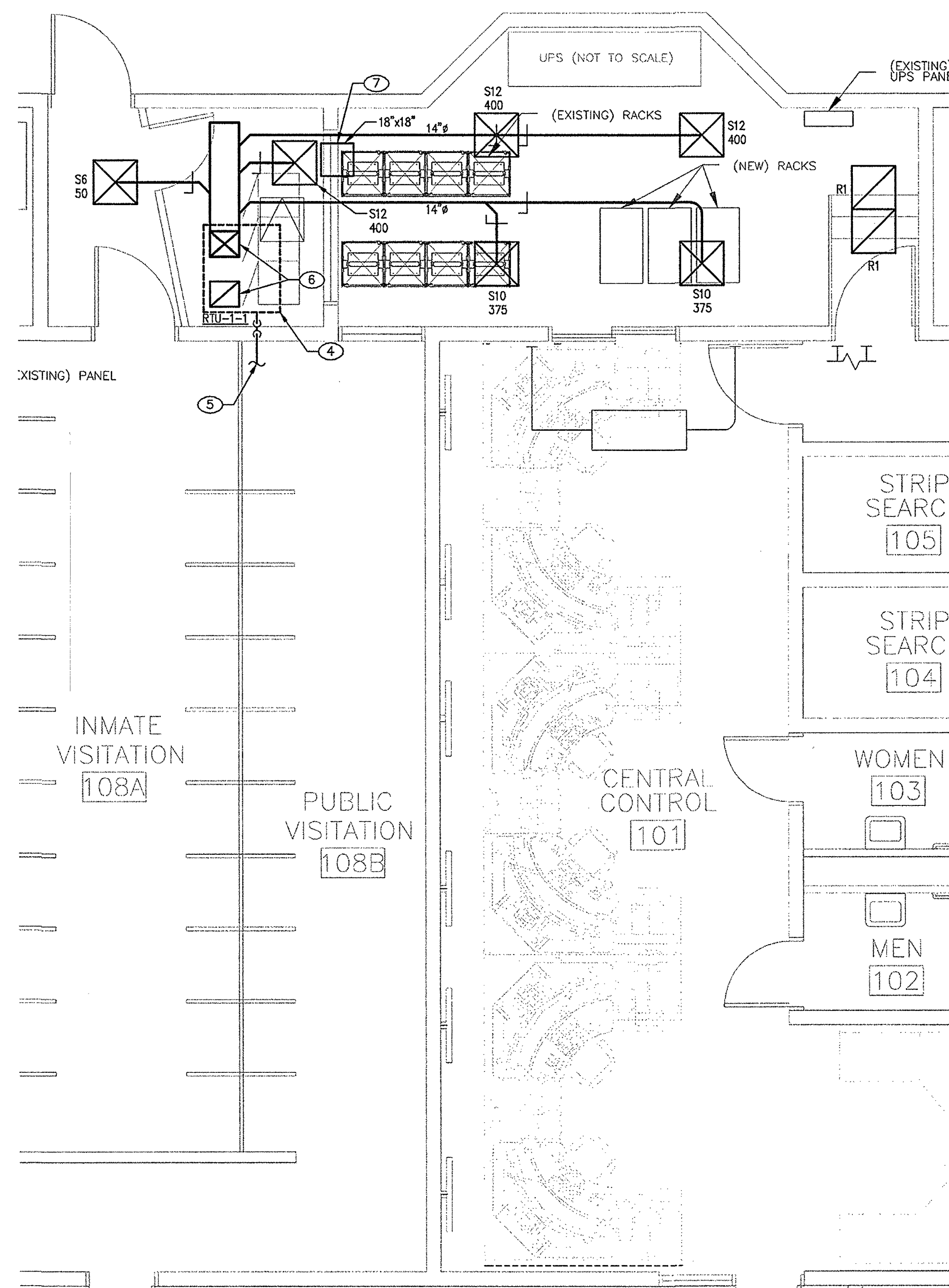
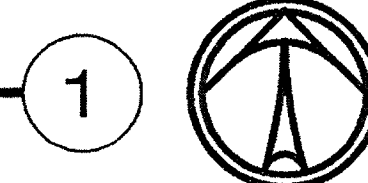
333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	DATE
MMB	12/10/13
FILE	DATE
BOMBARDING	DECEMBER 2013
SCALE	DATE
AS NOTED	DECEMBER 2013
RED NO	DATE
1348808-TB	DECEMBER 2013
PLANS LIBRARY NUMBER	DATE
513-557Q	DECEMBER 2013
AWSEN #	DATE
48808	DECEMBER 2013
SHT NO	DATE
M2.1	DECEMBER 2013



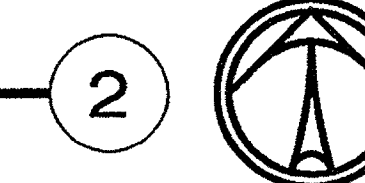
DEMOLITION PLAN - PROGRAM/VISITATION

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



HVAC PLAN - PROGRAM/VISITATION

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



GENERAL NOTES

- DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- CONSTRUCTION SHALL CONFORM TO LOCAL CODE STANDARDS ENFORCED BY AUTHORITY HAVING JURISDICTION.
- SUPPORT ALL DUCTWORK, AND EQUIPMENT FROM STRUCTURE.
- COORDINATE ROUTING OF DUCTWORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION. PROVIDE UNOBSTRUCTED SERVICE CLEARANCE AROUND ALL EQUIPMENT FOR MAINTENANCE AND REMOVAL.
- ALL DUCTWORK TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL NEW DUCTWORK AND PIPING. CONTRACTOR SHALL UTILIZE ALL AVAILABLE SPACE, INCLUDING BETWEEN STRUCTURAL MEMBERS. DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- PROVIDE THERMAL INSULATION AS SCHEDULED.
- PRIOR TO INSTALLATION, MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE LOCATION OF ALL THERMOSTATS, SENSORS, GRILLES AND REGISTERS WITH ARCHITECTURAL PLANS AND OWNER'S REPRESENTATIVE.
- ALL MECHANICAL EQUIPMENT, AIR DISTRIBUTION SYSTEM COMPONENTS, CONTROLS, EQUIPMENT MOUNTING, AND ACCESSORIES TO COMPLY WITH BUILDING OWNER REQUIREMENTS. COORDINATE WITH BUILDING OWNER.
- SUPPLY AIR DUCT RUN OUT SIZES SHALL MATCH DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
- REFER TO 1/M5.01 FOR TYPICAL AIR DEVICE DETAIL.
- REFER TO 2/M5.01 FOR TYPICAL ROOFTOP INSTALLATION.
- REFER TO 3/M5.01 FOR TYPICAL ROOFTOP SMOKE DETECTOR DIAGRAM.
- REFER TO 4/M5.01 FOR TYPICAL SPLIT SYSTEM DIAGRAM.
- REFER TO 2/M5.01 FOR TYPICAL FAN COIL SMOKE DETECTOR DIAGRAM.

KEYED NOTES

- EXISTING FAN COIL TO REMAIN IN CEILING SPACE. EXISTING THERMOSTAT TO BE REMOVED.
- EXISTING DUCTWORK AND AIR DEVICES DOWNSTREAM TO BE REMOVED BACK TO BEYOND CONTROL ROOM WALL, CAPPED AND SEALED.
- EXISTING AIR DEVICE TO BE REMOVED.
- NEW ROOFTOP UNIT. COORDINATE EXACT LOCATION OF UNIT ON ROOF WITH EXISTING CONDITIONS AND STRUCTURE.
- CONDENSATE DRAIN FROM ROOFTOP UNIT. COORDINATE ROUTING WITH EXISTING ROOFTOP UNIT CONDENSATE PIPING. CONNECT NEW CONDENSATE PIPING TO EXISTING. PROVIDE RUNNING TRAP AND VENT.
- FULL SIZED SUPPLY AND RETURN DUCTS DOWN FROM ROOFTOP UNIT. TRANSITION TO SIZES SHOWN ON PLANS.
- PROVIDE TRANSFER RETURN AIR DUCT.

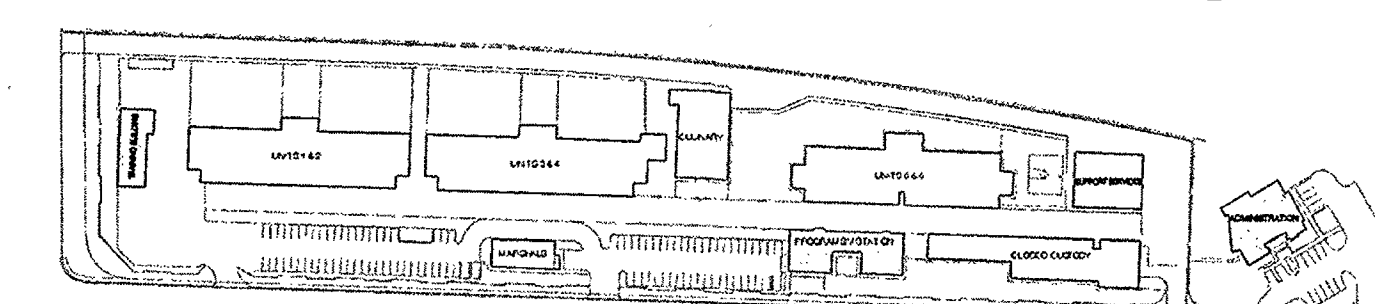
AS-BUILT BOMBARD MECHANICAL

3933 W. ALI BABA

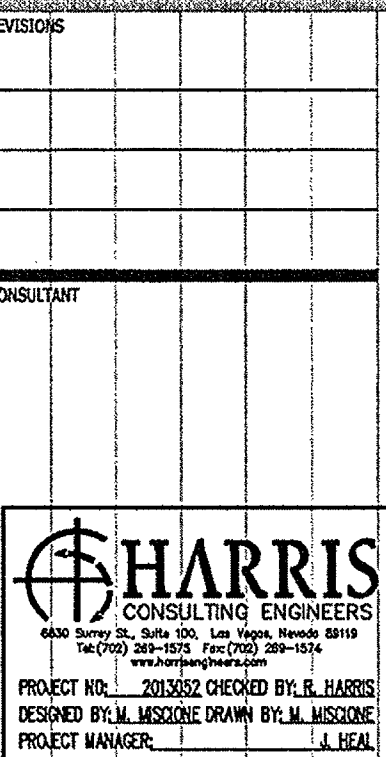
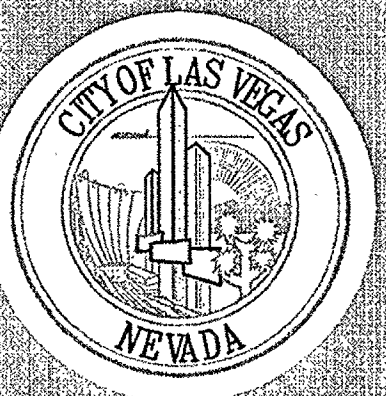
Las Vegas, NV 89118

Date: 10/20/2014

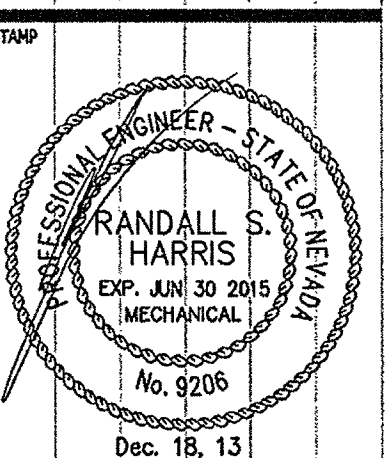
Approval: *Julio D.*



KEY PLAN



CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
SECURITY CONDUIT SYSTEMS
MECHANICAL DEMOLITION AND
HVAC PLAN - PROGRAM/VISITATIONS

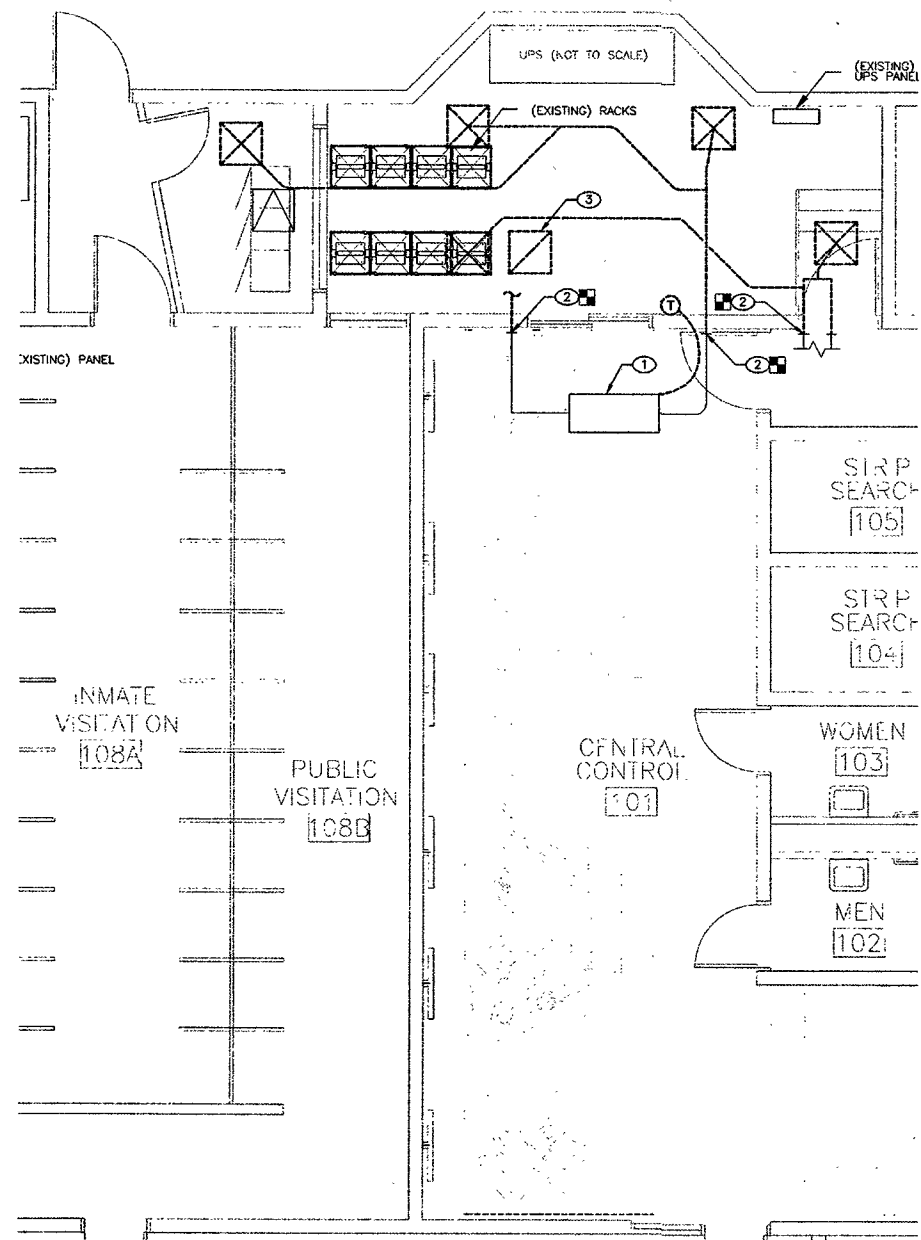


OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 394-8946
TDD: (702) 394-9108

DRAWN	MMISONE
FILE	13052102.DWG
DATE	DECEMBER 2013
SCALE	AS NOTED
SHEET NO.	13.48808-TB
PLANS LIBRARY NUMBER	513-557Q
HANSEN #	48808

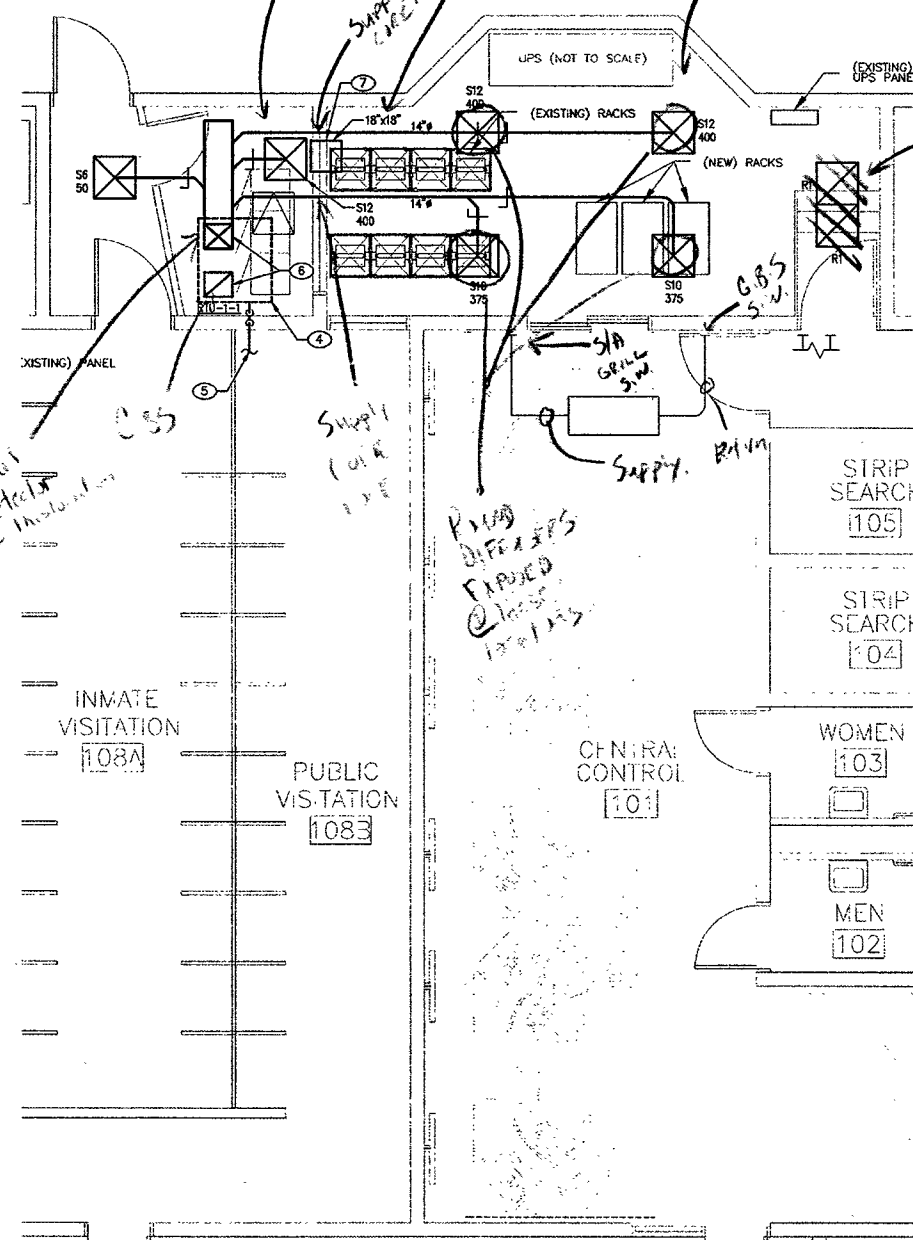
SHEET NO. M2.2



DEMOLITION PLAN - PROGRAM/VISITATION

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

1



HVAC PLAN - PROGRAM/VISITATION

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

2



GENERAL NOTES

- DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- CONSTRUCTION SHALL CONFORM TO LOCAL CODE STANDARDS ENFORCED BY AUTHORITY HAVING JURISDICTION.
- SUPPORT ALL DUCTWORK, AND EQUIPMENT FROM STRUCTURE.
- COORDINATE ROUTING OF DUCTWORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION. PROVIDE UNOBSTRUCTED SERVICE CLEARANCE AROUND ALL EQUIPMENT FOR MAINTENANCE AND REMOVAL.
- ALL DUCTWORK TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL NEW DUCTWORK AND PIPING. CONTRACTOR SHALL UTILIZE ALL AVAILABLE SPACE, INCLUDING BETWEEN STRUCTURAL MEMBERS. DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- PROVIDE THERMAL INSULATION AS SCHEDULED.
- PRIOR TO INSTALLATION, MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE LOCATION OF ALL THERMOSTATS, SENSORS, GRILLES AND REGISTERS WITH ARCHITECTURAL PLANS AND OWNER'S REPRESENTATIVE.
- ALL MECHANICAL EQUIPMENT, AIR DISTRIBUTION SYSTEM COMPONENTS, CONTROLS, EQUIPMENT MOUNTING, AND ACCESSORIES TO COMPLY WITH BUILDING OWNER REQUIREMENTS. COORDINATE WITH BUILDING OWNER.
- SUPPLY AIR DUCT RUN OUT SIZES SHALL MATCH DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
- REFER TO 1/MS.01 FOR TYPICAL AIR DEVICE DETAIL.
- REFER TO 2/MS.01 FOR TYPICAL ROOFTOP INSTALLATION.
- REFER TO 3/MS.01 FOR TYPICAL ROOFTOP SMOKE DETECTOR DIAGRAM.
- REFER TO 4/MS.01 FOR TYPICAL SPLIT SYSTEM DIAGRAM.
- REFER TO 2/MS.01 FOR TYPICAL FAN COIL SMOKE DETECTOR DIAGRAM.

KEYED NOTES

- EXISTING FAN COIL TO REMAIN IN CEILING SPACE. EXISTING THERMOSTAT TO BE REMOVED.
- EXISTING DUCTWORK AND AIR DEVICES DOWNSTREAM TO BE REMOVED BACK TO BEYOND CONTROL ROOM WALL, CAPPED AND SEALED.
- EXISTING AIR DEVICE TO BE REMOVED.
- NEW ROOFTOP UNIT. COORDINATE EXACT LOCATION OF UNIT ON ROOF WITH EXISTING CONDITIONS AND STRUCTURE.
- CONDENSATE DRAIN FROM ROOFTOP UNIT. COORDINATE ROUTING WITH EXISTING ROOFTOP UNIT CONDENSATE PIPING. CONNECT NEW CONDENSATE PIPING TO EXISTING. PROVIDE RUNNING TRAP AND VENT.
- FULL SIZED SUPPLY AND RETURN DUCTS DOWN FROM ROOFTOP UNIT. TRANSITION TO SIZES SHOWN ON PLANS.
- PROVIDE TRANSFER RETURN AIR DUCT.

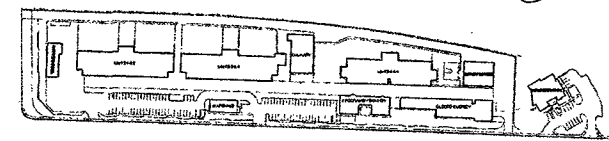
AS-BUILT
BOMBARD MECHANICAL

3933 W. ALI BABA

Las Vegas, NV 89118

Date: 11-13-14

Approval: [Signature]



KEY PLAN



CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

HARRIS
CONSULTING ENGINEERS
PROJECT NO. 201002 DESIGNED BY HARRIS
REVIEWED BY HARRIS
PROJECT MANAGER: [Name]

CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
MECHANICAL DEMOLITION AND
HVAC PLAN - PROGRAM/VISITATIONS

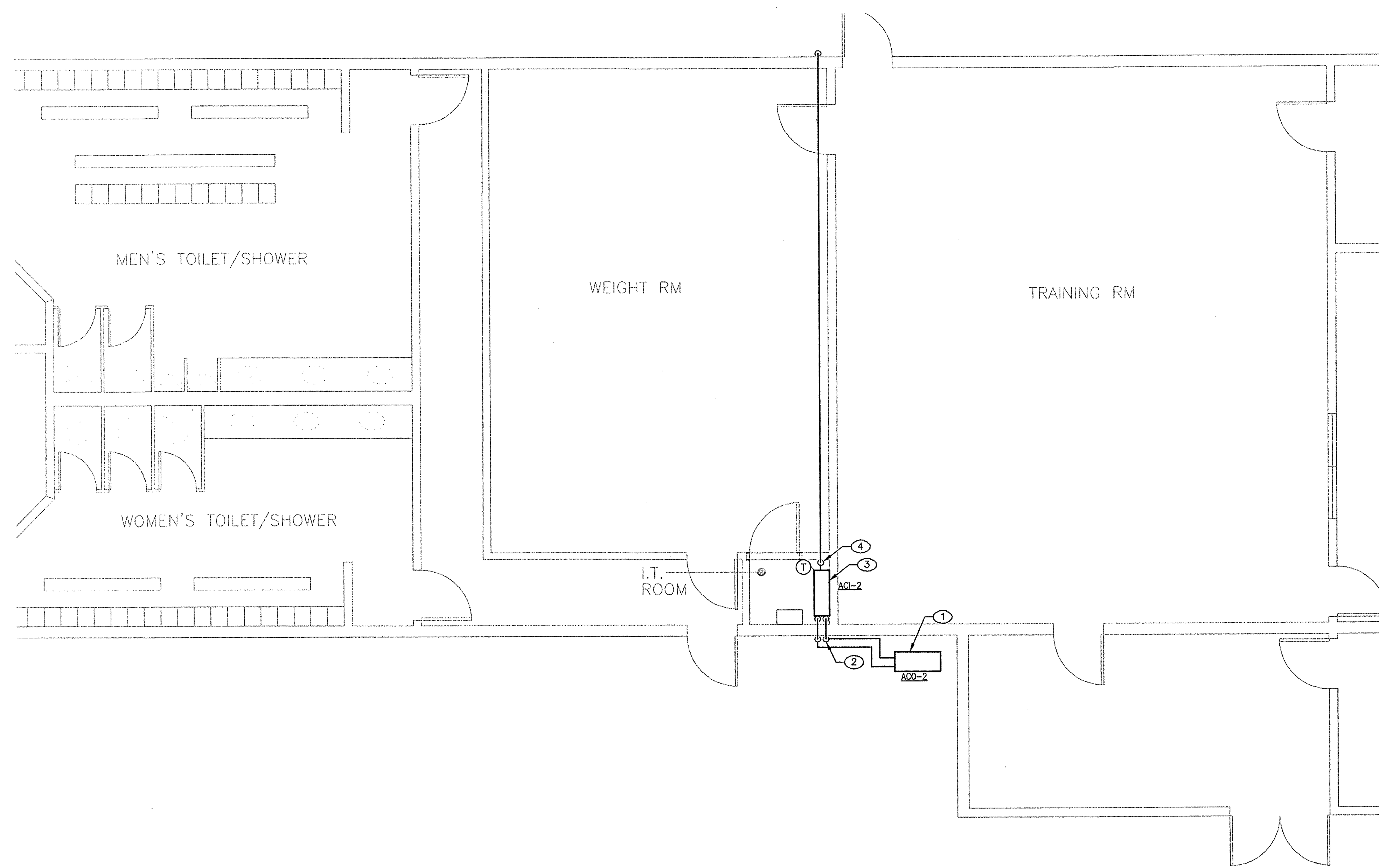
RANDALL S. HARRIS
EXP. JUN 30 2015
MECHANICAL
No. 9206
Dec. 18, 13

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

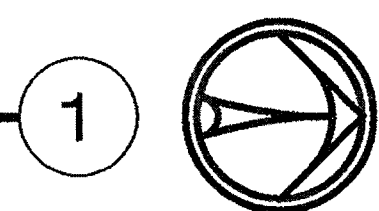
3333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 386-8846
TDD: (702) 386-9108

PROJECT: HVAC/MECHANICAL
DATE: 10/25/2013
SCALE: AS NOTED
JOB NO: 1348808-TB
PLANSHEET: 513-55ZQ
REVISION: 48808

M2.2



HVAC PLAN - TRAINING BUILDING
SCALE: 1/4" = 1'-0"

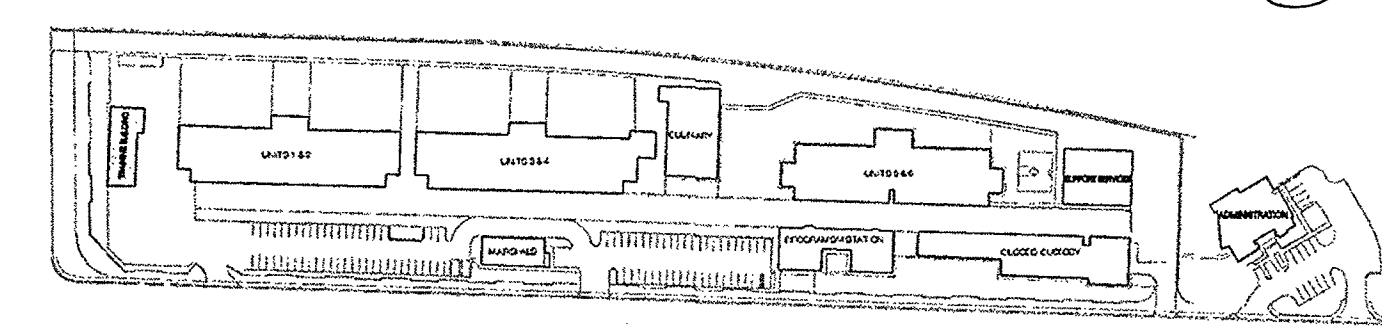


GENERAL NOTES

- A. DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- B. CONSTRUCTION SHALL CONFORM TO LOCAL CODE STANDARDS ENFORCED BY AUTHORITY HAVING JURISDICTION.
- C. MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL NEW PIPING. CONTRACTOR SHALL UTILIZE ALL AVAILABLE SPACE, INCLUDING BETWEEN STRUCTURAL MEMBERS. DUCT SHAPE AND ASPECT RATIOS MAY BE MODIFIED BY CONTRACTOR PROVIDED THAT THE SAME FRICTION LOSS IS MAINTAINED.
- D. PRIOR TO INSTALLATION, MECHANICAL CONTRACTOR SHALL CLOSELY COORDINATE LOCATION OF ALL THERMOSTATS, SENSORS, GRILLES AND REGISTERS WITH ARCHITECTURAL PLANS AND OWNER'S REPRESENTATIVE.
- E. ALL MECHANICAL EQUIPMENT, AIR DISTRIBUTION SYSTEM COMPONENTS, CONTROLS, EQUIPMENT MOUNTING, AND ACCESSORIES TO COMPLY WITH BUILDING OWNER REQUIREMENTS. COORDINATE WITH BUILDING OWNER.

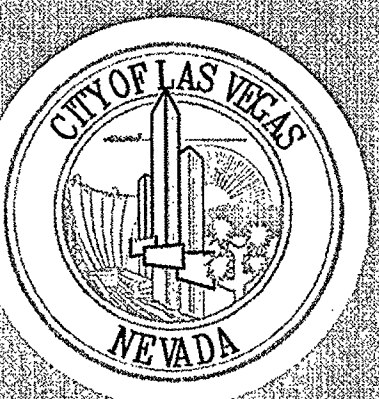
KEYED NOTES

- 1. NEW CONDENSING UNIT ON GRADE, COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS. ENSURE PROPER CLEARANCES FOR ACCESS AND MAINTENANCE.
- 2. REFRIGERANT LINE SET, SIZE AND ROUTE PER MANUFACTURER'S RECOMMENDATIONS.
- 3. NEW FAN COIL MOUNTED ON WALL, COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS. INSTALL PRE MANUFACTURER'S RECOMMENDATIONS.
- 4. CONDENSATE DRAIN LINE FROM FAN COIL CONDENSATE PUMP, RISE UP INTO CEILING SPACE AND ROUTE TO OUTSIDE WALL, PENETRATE THRU WALL, DROP DOWN EXTERIOR WALL AND TERMINATE 6" ABOVE GRADE.



KEY PLAN

AS-BUILT
BOMBARD MECHANICAL
3933 W. ALI BABA
Las Vegas, NV 89118
Date: 10/20/2014
Approval: *Julie D*



DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS DETENTION CENTER
SECURITY CONDUIT SYSTEMS
MECHANICAL HVAC PLAN
- TRAINING BUILDING

REVISIONS

NO.	DATE	DESCRIPTION

CONSULTANT

HARRIS
CONSULTING ENGINEERS
4330 S. Durango Dr., Suite 100, Las Vegas, Nevada 89118
(702) 229-6335
www.harris-engineers.com

PROJECT NO.: 201308-0002-01-01
DESIGNED BY: J.M. HARRIS
PROJECT MANAGER: J. HARRIS

STAMP

PROFESSIONAL ENGINEER - STATE OF NV
RANDALL HARRIS
EXP. JUN 30 2015
MECHANICAL
No. 9206
Dec. 18, 13

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

3333 North Rancho Drive
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6335
FAX: (702) 384-8846
TDD: (702) 386-9108

DRAWN	MMB:JONE
FILE	13051713.DWG
DATE	DECEMBER 2013
SCALE	AS NOTED
DWG NO.	13.48808-TB
PLANS LIBRARY (WORK)	513-552Q
HANSEN #	48808
SHT NO.	M2.3