

GENERAL NOTES

1.

DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2.

FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3.

ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
4.

IT IS THE INTENT OF THESE DRAWINGS TO ESTABLISH A STANDARD OF QUALITY THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
5.

CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.
6.

WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
7.

WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE OF NEVADA AND NATIONAL CODES AND ORDINANCES.
8.

VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
9.

SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
10.

WIRE SHALL BE COPPER, 75°C RATED FOR GENERAL USE. FOR WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER, MINIMUM 90°C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
11.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
12.

CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT OR INSTALLATION METHODS.
13.

SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
14.

VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
15.

SEE DIVISION 15 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED.
16.

PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
17.

CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND FUSES SHALL BE BUSSMANN.
18.

CONDUITS PENETRATING THRU ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.
19.

FINAL CONNECTIONS TO MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TITE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
20.

ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
21.

WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.
22.

ALL EQUIPMENT SUCH AS SWITCHBOARDS, DISTRIBUTION BOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER. ALL FUSES PROVIDED SHALL BE OF THE SAME MANUFACTURER.
23.

FIRE ALARM SYSTEM.

CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES AND CABLE AS DIRECTED BY EQUIPMENT MANUFACTURER. MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SINGLE LINE SYSTEM WITH SHOP DWGS., THIS SINGLE LINE DIAGRAM SHALL SHOW DEVICES, CONDUIT, WIRE AND CABLE SIZES, EQUIPMENT TO BE USED AND SHALL BE STAMPED AND SIGNED BY LOCAL FIRE DEPARTMENT. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.
24.

FIXTURES RECESSED IN "T-BAR" CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM, WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE U.L. APPROVED ASSEMBLY.

SYMBOL LIST

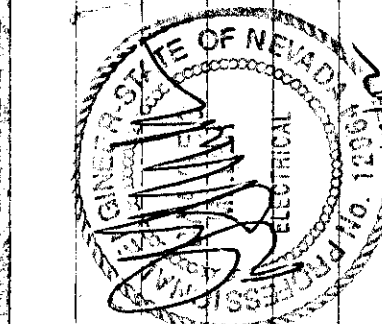
- TWIN HEAD EMERGENCY BATTERY FIXTURE
- EXIT LIGHT
- POLE MOUNTED FIXTURE
- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE
- DOWNLIGHT FIXTURE
- WALL MOUNTED FIXTURE
- FLUORESCENT FIXTURE, FURNISH WITH EMERGENCY BATTERY PACK
- FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT FURNISH WITH EMERGENCY BATTERY PACK
- EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED - CEILING MOUNTED
- LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE
- S SINGLE POLE SWITCH @ +48" UNLESS NOTED.
- S_D DIMMER SWITCH @ +48" UNLESS NOTED
- S₃ THREE WAY SWITCH @ +48" UNLESS NOTED
- S_K SWITCH - KEY OPERATED
- S_T THERMAL OVERLOAD SWITCH
- DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- GFI DUPLEX RECEPTACLE @ +48" UNLESS NOTED
- DUPLEX RECEPTACLE @ +18" UNLESS NOTED.
- ISOLATED GROUND (ORANGE) DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- ISOLATED GROUND (ORANGE) DUPLEX RECEPTACLE @ +18" UNLESS NOTED
- JB JUNCTION BOX
- FSD FUSED DISCONNECT SWITCH - SIZE AS INDICATED.
- NFSD NON-FUSED DISCONNECT SWITCH - 30A, 3P, UNLESS NOTED
- TEL TELPHONE OUTLET @ +18" UNLESS NOTED
- COMPUTER OUTLET @ +18" UNLESS NOTED
- COMBINATION TELEPHONE/COMPUTER OUTLET @ +18" UNLESS NOTED
- DIVISION 15 EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
- T THERMOSTAT @ +54" UNLESS NOTED
- BCP BRANCH CIRCUIT PANELBOARD
- MSD MAIN SWITCHBOARD/DISTRIBUTION EQUIPMENT
- TR TRANSFORMER
- FLUSH CEILING SPEAKER BACKBOX RAULAND ACC1110
- WSW WALL MOTION SENSOR SWITCH @+48" UNLESS NOTED OTHERWISE
- MS MOTION SENSOR
- PC PHOTOCELL
- R RELAY
- TS TIMESWITCH
- SO SPECIAL OUTLET
- FFO FLUSH FLOOR OUTLET
- TV TELEVISION OUTLET
- FFPO FLUSH FLOOR PHONE/DATA OUTLET
- FFTO FLUSH FLOOR TELEPHONE OUTLET
- WP INDICATES WEATHER-PROOF (NEMA 3R)
- C INDICATES CONDUIT WITH PULL-LINE ONLY
- PNL INDICATES PANEL
- XFMR INDICATES TRANSFORMER
- NPCO INDICATES NEVADA POWER COMPANY
- GRND INDICATES GROUND
- +18" INDICATES MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE
- HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
- CONDUIT RUN BELOW FLOOR OR GRADE
- 1/2" - 2 #12 THWN & 1 #12 GRND UNLESS NOTED
- 1/2" - 3 #12 THWN & 1 #12 GRND UNLESS NOTED
- 1/2" - 4 #12 THWN & 1 #12 GRND UNLESS NOTED
- 1/2" - 5 #12 THWN & 1 #12 GRND UNLESS NOTED
- FAH FIRE ALARM HORN, CEILING MOUNTED
- COMBINATION FIRE ALARM HORN WITH ADA FLASHING LIGHT @ +80" A.F.F. TO BOTTOM OF DEVICE
- FAFL FIRE ALARM ADA FLASHING LIGHT @ +80"
- SD SMOKE DETECTOR
- DD DUCT DETECTOR
- FAMP FIRE ALARM MANUAL PULL STATION +48" AFF
- FS FLOW SWITCH
- TS TAMPER SWITCH
- CAO CAMERA OUTLET
- MOA MULTI-OUTLET ASSEMBLY
- MS MOTOR STARTER
- MO MOTOR OUTLET

Comply with 99 National
Electrical Code & 99 Southern
Nevada Amendments

PLANS APPROVED
RECEIVED
SEP 26 2003
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CITY OF LAS VEGAS WEST SERVICE YARD
BUFFALO DRIVE AND PEAK ROAD
LAS VEGAS, NEVADA
GENERAL NOTES AND
SYMBOLS LIST



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