



OWNER: CITY OF LAS VEGAS
FIRE STATION #48
ELECTRICAL COMMUNICATION PLAN

COMFORT ENGINEERING
"COMFORT BY DESIGN"
MECHANICAL-ELECTRICAL-PLUMBING
9175 WEST FLAMINGO ROAD, LAS VEGAS, NEVADA 89147
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REVISIONS

NO.	DATE	DESCRIPTION
1	9/26/07	OWNER CHANGES

CONSULTANT

STAMP

PLANS APPROVED
CITY OF LAS VEGAS
FIRE STATION #48
ELECTRICAL COMMUNICATION PLAN
9/27/07

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

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DRAWN: 06-094
DATE: 07/12/07
SCALE: 1/8" = 1'-0"
SHEET NO: 630-101
SHEET NO: E4.1

KEYED PLAN NOTES

- REFER TO CIVIL DRAWINGS, SHEET C-ES.1 FOR LOCATION OF TELEPHONE SERVICE POINT. PROVIDE #8 GROUND WIRE FOR TELEPHONE BACKBOARD.
- PROVIDE (2) 2-GANG FLUSH MOUNTED BOXES FOR SPEAKER VOLUME CONTROLS AT THE LOCATIONS INDICATED.
- PROVIDE HUBBELL RE4X WALL MOUNTED CABINET (24"W X 42"H X 10"D) AT TTB AS DIRECTED BY OWNER. NO SUBSTITUTIONS.
- PROVIDE 12"W X 12"H X 4"D FLUSH MOUNTED PULLBOX BELOW ALARM COUNTER WITH (2) 2"C FROM PULLBOX TO PARAPET WALL AS INDICATED. ROUTE CONDUIT ABOVE ROOF LINE FOR ANTENNA CONNECTIONS. PROVIDE COPPER CONDUCTOR ROUTED WITH CONDUIT AND CONNECTED TO BUILDING GROUNDING ELECTRODE. PROVIDE (2) 1" CONDUITS TO ALARM J-BOX (NOTE 10).
- PROVIDE 12"W X 12"H X 4" J-BOX AT DOOR AT 46" AFF AND PERPENDICULAR TO ENTRY DOOR. ROUTE 3/4"C TO J-BOX ABOVE CEILING FOR 120V POWER. DOORBELL SHALL BE MODEL 504-20-1 BY FEDERAL SIGNAL, NO SUBSTITUTIONS.
- PROVIDE 12" X 12" X 4" J-BOX BELOW SOUTH ALARM COUNTER (ADJACENT TO ENGINE BAY). SEE NOTE 11.
- ROUTE (2) 3/4"C TO TTB IN ELECTRICAL ROOM FOR VOCAL SYSTEMS. TERMINATE UNDER ALARM COUNTER IN 12" X 12" X 4" J-BOX, AT APPROXIMATELY 12" AFF.
- TERMINATE ALL DATA WIRING TO HUBBELL RE4X CABINET AT (2) HUBBELL 16-PORT UNLOADED JACK PANELS (MODEL NO. MCCF1619) WITH HUBBELL DATA JACKS (MODEL NO. HD6708B) INSIDE WALL MOUNTED CABINET.
- PROVIDE 12" X 12" X 4" J-BOX ABOVE CEILING. ROUTE 3/4"C WITH LOW VOLTAGE WIRING (SEE NOTES 12 AND 13) TO TTB FOR FUTURE CARD ACCESS SYSTEM.
- PROVIDE 24"W X 24"H X 6"D ALARM J-BOX FLUSH MOUNTED AT 48" AFF TO BOTTOM OF J-BOX FOR SPEAKER SYSTEMS, WITH HINGED LOCKABLE COVER. ACCESS TO J-BOX SHALL BE FROM THE CAPTAIN'S OFFICE. SEE CONTROL WIRING DIAGRAM, DETAIL 1/E6.2.
- ROUTE (2) 1"C FROM 24" X 24" X 6" ALARM J-BOX TO 12" X 12" X 4" ALARM J-BOX UNDER SOUTH ALARM COUNTER (ADJACENT TO RESCUE BAY). COORDINATE EXACT LOCATION WITH OWNER.
- PROVIDE 4S J-BOX WITH SINGLE-GANG RING AND BLANK COVER MOUNTED AT 46" AFF FOR FUTURE CARD ACCESS SYSTEM. CENTER BOX BETWEEN MAN DOOR STUCCO POP-OUT AND OVERHEAD DOOR STUCCO POP-OUT. FURNISH AND INSTALL LOW VOLTAGE SHIELDED AWG 22 CABLE, "TAPPAN" #2280AB6 (6-CONDUCTOR) HOME RUN TO TTB.
- PROVIDE 3/4"C TO ELECTRIC STRIKE. FURNISH AND INSTALL LOW VOLTAGE SHIELDED AWG 18 CABLE, "TAPPAN" #1880BB2 (2-CONDUCTOR) HOME RUN TO TTB.
- COORDINATE EXACT LOCATION OF ANTENNAS WITH OWNER AND WITH INSTALLATION CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 3/4"C FROM DOORBELL J-BOX TO DOORBELL BUTTON J-BOX AT MAIN ENTRY DOOR.
- ROUTE 3/4"C FROM 82" AFF NEAR BATTERY CHARGER UP THE INSIDE SURFACE OF THE WALL TO THE PARAPET WALL ABOVE THE ROOF FOR FIRE DEPARTMENT GPS SYSTEM.
- ROUTE CONDUIT TO 24" X 24" X 6" ALARM J-BOX AT CAPTAIN'S OFFICE.
- 1" CONDUITS FOR FUTURE CAMERAS. SEE SHEET C-ES.1 FOR CONTINUATION. SEE NOTE 1 ON SHEET C-ES.1.
- RJ-11 PHONE JACK FOR VEEDER-ROOT TANK MONITORING. SEE SHEET E6.2.
- 8"W X 18"H X 4"D FIRE ALARM RADIO SIGNAL BOX. PROVIDE 3/4"C FROM FIRE ALARM BOX TO ENGINE APPARATUS BAY PARAPET WALL FOR REMOTE ANTENNA.
- DIEBOLD CARD READER SYSTEM BOX.
- FLUSH MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET. SEE SHEET C-10 AND NOTE 21 ON SHEET E3.1. CABINET SHALL BE PROVIDED BY OWNER. PROVIDE (1) 3"C TO TRAFFIC SIGNAL PULLBOX (SEE SHEETS C-10 AND C-ES.1).
- PROVIDE (1) 3/4"C TO TRAFFIC SIGNAL PUSHBUTTONS 1 AND 2 (SEE SHEET E3.1 FOR LOCATIONS). SEE NOTE 17 ON SHEET E3.1.
- PROVIDE 3/4" DEDICATED CONDUIT WITH (2) AWG 18 4-WIRE SHIELDED PLENUM RATED CABLES TO TTB FOR FIRE ALARM RADIO SIGNAL BOX (NOTE 20).
- LOCATION OF RADIO ANTENNAS. SEE DETAIL 1/E6.2.

GENERAL PLAN NOTES

- PROVIDE A 3/4"C HOMERUN FROM EACH TELEPHONE, DATA AND TELEVISION OUTLET TO TELEPHONE TERMINAL BOARD (TTB).
- ALL CONDUITS SHALL BE 3/4"C UNLESS NOTED OTHERWISE.
- SPEAKER VOLUME CONTROLS SHALL BE INSTALLED IN 4" X 4" RECESSED J-BOXES WITH SINGLE GANG RINGS AT 48" AFF TO CENTER OF DEVICE, UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPEAKERS, WIRING, CONDUITS, ENCLOSURES, MOUNTING HARDWARE, GRILLES, TRANSFORMERS, VOLUME CONTROLS AND J-BOXES. PROVIDE ALL ITEMS NEEDED TO MAKE ALL SYSTEMS COMPLETE AND OPERABLE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE 2-CONDUCTOR 18 AWG STRANDED SPEAKER WIRE WITH FOIL SHIELD. USE WEST PENN 293 ONLY AT LANDLINE VOCAL SYSTEM SPEAKERS AND CARROLL C2534-4110 AT RADIO VOCAL SYSTEM SPEAKERS. WEST PENN AND CARROLL CONDUCTORS SHALL BE COLOR CODED SEPARATELY.
- TERMINATE SPEAKER WIRING AT TRANSFORMER (ON 2.0 WATT TERMINAL FOR INSIDE SPEAKERS, 3.7 -WATT TERMINAL FOR OUTSIDE SPEAKERS, 70V SIDE), WALL VOLUME CONTROLS AND AT 24" X 24" X 6" J-BOX. SEE CONTROL DIAGRAM ON SHEET E6.2.
- COORDINATE SPEAKER GRILLES WITH LIGHT FIXTURES AND CENTER GRILLES IN CEILING TILES.
- PROVIDE WALL PLATES FOR ALL WALL MOUNTED PHONE JACKS.
- SHOP DRAWINGS ARE NOT REQUIRED FOR SPEAKER SYSTEM, DATA SYSTEM OR TELEPHONE SYSTEM.

NORTH DISPATCH ELEVATION

SCALE: NONE

1 E4.1

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