



COMMUNICATIONS PLAN
SCALE 3/32" = 1'-0"

SECURITY SYSTEM NOTES

- S1 (1)HONEYWELL ADEPCO VISTA - 20P (8) ZONE CONTROL PANEL AND (1) HONEYWELL #4219 ADECO VISTA EXPANDER MOUNTED IN THE CASH OFFICE ABOVE CEILING. SECURITY CONTRACTOR TO CLEARLY LABEL SECURITY PANEL.
- S2 (1)HONEYWELL #6160 KEYPAD MOUNTED OUTSIDE OF THE MANAGERS OFFICE WALL. BOTTOM OF KEYPAD SHALL BE 44" AFF.
- S3 (1)HONEYWELL WAVE2 2-TONE SOUNDER (SIREN HORN) ON THE MANAGERS OFFICE WALL FACING THE SALES FLOOR MOUNTED AT 12" AFF.
- S4 (1)HONEYWELL #FG1625 GLASS BREAK DETECTOR CEILING MOUNTED IN THE MIDDLE OF THE VESTIBULE 5 FEET FROM THE PERIMETER GLASS PANES ENTRANCE/EXIT DOORS. GLASS BREAK DETECTOR SHOULD FACE GLASS PANES.
- S5 (1)HONEYWELL #FG1625 GLASS BREAK DETECTOR ALONG THE INTERIOR OF GLASS STOREFRONT 5 FEET FROM GLASS PANES FOR EVERY 25 FEET OF STOREFRONT GLASS. GLASS BREAK DETECTORS SHOULD FACE GLASS PANES.
- S6 (1)WALL MOUNTED BOSCH #SC-PDL1-W15G SERIES TRITECH PIR/MICROWAVE DETECTOR MOUNTED AT 9'-6" AFF FOR 60 LINEAR FOOT OF STOREFRONT GLASS SHOOTING SIDEWAYS ACROSS THE GLASS. NO MOTION DETECTORS IN THE VESTIBULE.
- S7 (1)CEILING MOUNTED 360° BOSCH #DS9370 PANORAMIC TRITECH DETECTOR AT 12" TO 25" AFF FOR STOREFRONT GLASS IN THE EVENT (S6) CANNOT BE WALL MOUNTED.
- S8 (1)WALL MOUNTED BOSCH #SC-CDL1-W15G SERIES TRITECH PIR/MICROWAVE DETECTOR ABOVE VESTIBULE DOOR FRAME FACING SALES FLOOR MOUNTED AT 9'-6" AFF.
- S9 (1)CEILING MOUNTED 360° BOSCH #DS9370 PANORAMIC TRITECH DETECTOR IN THE CENTER OF THE CASH OFFICE AWAY FROM ANY AIR DEVICES.
- S10 (1)WALL MOUNTED BOSCH #DS860 SERIES TRITECH PIR/MICROWAVE DETECTOR ABOVE ALL EGRESS DOOR FRAMES (EXCEPT IF EGRESS DOOR IS ADJACENT TO RECEIVING OVERHEAD DOOR) AT 8'-0" AFF.
- S11 MAIN CUSTOMER ENTRANCE / EXIT DOORS. FOR NEW DORMA DOORS, WIRE INTO THE DOOR FRAME HEADER TO POINT OF CONNECTION TERMINAL STRIP.
- S12 (1) NASCOM N200A/UST DOOR CONTACT FOR EXTERIOR DOORS AND ROOF HATCH (IF APPLICABLE). (2) DOOR CONTACTS REQUIRED AT DOUBLE DOORS.
- S13 (1) HONEYWELL #999 DOOR CONTACT FOR OVERHEAD DOOR.
- S14 (1) CEILING MOUNTED 360° BOSCH #DS9370 PANORAMIC TRITECH DETECTOR IN THE CENTER OF THE RECEIVING AREA MOUNTED AT 15" TO 25" AFF. (NO OTHERS NEEDED IN SALES REPLENISHMENT).

GENERAL ELECTRICAL / COMMUNICATION / SECURITY NOTES

- 01 HFT COMMUNICATIONS CONTRACTOR SHALL PROVIDE & INSTALL ALL CABLE, JACKS, PATCH CORDS, TELEPHONE EQUIPMENT ETC FOR A COMPLETE LOW VOLTAGE COMMUNICATIONS SYSTEM. GC IS RESPONSIBLE FOR COMPLETE SECURITY SYSTEM INSTALLATION, REFER TO VENDOR SCOPE OF WORK SUMMARY ON SHEET A0.0 FOR ANY HFT VENDOR PROVIDED ITEMS.
- 02 THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, BOXES, PULL STRINGS, 120V POWER SLEEVES FOR COMMUNICATIONS WIRING & EQUIPMENT. COORDINATE WITH COMMUNICATIONS CONTRACTOR & SEE SYMBOL LEGEND FOR ADDITIONAL DETAILS. THE E.C. SHALL PROVIDE WIRE AND COMPLETELY INSTALL ALL COMPONENTS OF THE SECURITY SYSTEM INCLUDING BUT NOT LIMITED TO: COMPONENTS, DEVICES, PANELS, WIRE, CONDUIT, BOXES, AND SYSTEM INTERCONNECTIONS.
- 03 ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS AT EACH END, PULL STRINGS & BE BONDED TO LOCAL BUILDING STEEL.
- 04 ALL LOW VOLTAGE CABLES SHALL BE PLENUM RATED.
- 05 THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE A COMPLETE DATA COMMUNICATIONS SYSTEM WITH EQUIPMENT, PATCH PANELS, CABLE, JACKS, J HOOKS, BOXES, LABELING, TESTING, ETC. ALL EQUIPMENT SHALL BE SUPPLIED & INSTALLED PER CATEGORY 6 (BICSI AND EIA/TIA) INSTALLATION STANDARDS.
- 06 THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE A COMPLETE COMMUNICATIONS SYSTEM LABELING SYSTEM, INCLUDE BUT NOT LIMITED TO: CABLES, JACKS, PATCH PANEL RACKS, ETC. ALL LABELING SHALL COMPLY WITH STANDARDS OF EIA/TIA 606.
- 07 THE COMMUNICATIONS CONTRACTOR SHALL TEST EACH CABLE AFTER INSTALLATION AND TERMINATION TO CERTIFY THAT EACH CABLE COMPLIES WITH TIA/EIA CATEGORY 6 STANDARDS. PROVIDE DOCUMENTATION PER HFT REQUIREMENTS.
- 08 SECURITY SYSTEM WIRING SHALL BE HONEYWELL #1045501 PLENUM GENESIS 22/4 STRANDED UNSHIELDED CABLE.
- 09 EACH SPECIFIED ALARM CONTACT AND EACH SPECIFIED ALARM SENSOR SHOULD BE WIRED IN A CLOCKWISE MANNER TO ITS OWN DESIGNATED ZONE STARTING AT THE MAIN CUSTOMER ENTRANCE / EXIT DOOR CONTACTS.
- 10 EACH SPECIFIED ALARM CONTACT AND EACH SPECIFIED ALARM SENSOR SHOULD BE SPECIFICALLY LABELED ACCORDING TO ITS DESIGNATED CONTACT OR SENSOR NAME, ITS LOCATION WITHIN THE STORE & PROGRAMMED SEPARATELY TO ITS OWN DESIGNATED ZONE.
- 11 THE CONTRACTOR SHOULD NEVER PROGRAM / INSTALL ANY TYPE OF LOCKOUT CODE INTO THE PANEL OR EXPANDER.
- 12 COORDINATE CONDUIT AND/OR JUNCTION BOXES AS REQUIRED FOR SECURITY SYSTEM.
- 13 ALL PRODUCTS SPECIFIED ARE FEATURED IN PRODUCT BROCHURES FROM THE MANUFACTURER.

CONDUITS, LOW VOLTAGE WIRING OR MOUNTING HARDWARE SHALL NOT BE DIRECTLY MOUNTED TO THE ROOF DECK.

GENERAL ELECTRICAL DEMOLITION NOTES

- 1) NO ATTEMPT HAS BEEN MADE TO INDICATE ALL EXISTING ELECTRICAL DEVICES, LIGHT FIXTURES, COMMUNICATION DEVICES, WIRING, CONDUIT, ETC. TO BE REMOVED AND/OR RELOCATED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION PRIOR TO SUBMITTING BID.
- 2) REMOVE AND/OR RELOCATE EXISTING DEVICES ON WALLS OR CEILING BEING REMOVED. COORDINATE SUCH CONDITIONS WITH ARCHITECTURAL DRAWINGS.
- 3) ALL UNUSED WIRE (POWER & COMMUNICATION) SHALL BE REMOVED.
- 4) ALL EXISTING WIRING (POWER & COMMUNICATION) THAT IS TO REMAIN SHALL BE REWORKED OR REPLACED WITH CODE COMPLIANT MATERIAL & SUPPORTS. ANY EXISTING SLACK MOUNTED CONDUITS SHALL BE REMOVED OR RELOCATED SO THAT THEY ARE IN THE JOIST SPACE OR WITHIN WALL CAVITIES.

ELECTRICAL KEY NOTES

- E1 4"x8"x1/4" PAINTED FIRE RATED PLYWOOD FOR TELEPHONE BACKBOARD. REFER TO DETAIL ON SHEET E2.2 FOR MORE DETAILS.
- E2 1-1/2" EMT CONDUIT FROM 9' AFF TO JOIST SPACE HOMERUN CONTINUOUS CONDUIT TO TELEPHONE DEMARK (COORDINATE LOCATION WITH LANDLORD). STUB CONDUIT AT 8' AFF TO TELEPHONE DEMARK.
- E3 12"x1/2" COPPER BUS BAR MOUNTED AT 84" AFF U.O.N. ON INSULATORS. PROVIDE BAR WITH (6) EQUALLY SPACED 3/8" DIAMETER HOLES. CONNECT BAR TO HFT'S MAIN PANELS GROUND BAR WITH #4AWG COPPER CONDUCTORS.
- E4 4" DIAMETER EMT CONDUIT RISER FROM JOIST SPACE INTO TOP OF RACK.
- E5 2 COMPARTMENT POWER POLE.
- E6 NOTE NOT USED.
- E7 20A 120 VOLT DUPLEX RECEPTACLE AT JOIST SPACE FOR SECURITY CAMERA MONITOR. COORDINATE EXACT LOCATION WITH COMMUNICATIONS CONTRACTOR. MOUNT FLUSH IN CEILING WHERE CEILING OCCUR. RECEPTACLE SHALL BE WHITE WITH WHITE COVER PLATE. COORDINATE EXACT LOCATION WITH SECURITY VENDOR.
- E8 PROVIDE 2 GANG BOX WITH 1 1/2" CONDUIT & PULL STRING TO JOIST SPACE.
- E9 (3) 1 1/2" CONDUITS & PULL STRINGS FROM TOP OF SECURITY PANEL TO JOIST SPACE.
- E10 1" CONDUIT WITH PULL STRING FROM AMPLIFIER TO JOIST SPACE.
- E11 2" CONDUIT SLEEVE BETWEEN BACKBOARD & EXISTING TELEPHONE CABINET.
- E12 NOTE NOT USED.
- E13 FLUSH SINGLE GANG BOX MOUNTED AT 48" AFF WITH 3/4" EMT CONDUIT STUB TO CEILING JOIST.
- E14 FLUSH SINGLE GANG BOX MOUNTED AT 114" AFF AT VESTIBULE AND AT 96" AT ALL OTHER LOCATIONS WITH 3/4" EMT CONDUIT TO JOIST SPACE FOR MOTION SENSOR.
- E15 3/4" CONDUIT STUBBED INTO DOOR FRAME FOR DOOR CONTACT.
- E16 PROVIDE 3/4" EMT CONDUIT DROP FROM JOIST & SINGLE GANG BOX MOUNTED AT 12'-0" FOR SALES REPLENISHMENT MOTION SENSOR.
- E17 PROVIDE 2 GANG BOX AT 4" AFF. WITH 3/4" CONDUIT STUB TO JOIST SPACE FOR OVERHEAD DOOR CONTACT.
- E18 PROVIDE OCTAGONAL BOX ON BOTTOM OF JOIST.

COMMUNICATIONS KEY NOTES

- C1 25 PAIR CAT3 24AWG TWISTED PAIR CABLE. TERMINATE AT TELEPHONE DEMARK AS DIRECTED BY TELEPHONE COMPANY. TERMINATE AT HFT PHONE BOARD ON 66 PUNCH DOWN BLOCK.
- C2 (3) 4 PAIR CAT 6 24AWG CABLES BETWEEN HFT PHONE BOARD & RACK. TERMINATE ON BOTH ENDS.
- C3 24"Wx43"Dx8"TH FLOOR MOUNTED LOCKABLE RACK PER HFT STANDARDS.
- C4 (2) 4 PAIR CAT 6 24AWG DATA CABLE BETWEEN REGISTERS & HFT RACK. TERMINATE ON BOTH ENDS.
- C5 (1) 4 PAIR CAT 6 24AWG CABLE BETWEEN REGISTER & HFT RACK FOR TELEPHONE. TERMINATE ON BOTH ENDS.
- C6 HFT VENDOR SHALL PROVIDE, WIRE & INSTALL SALES AREA SPEAKERS.
- C7 HFT VENDOR SHALL PROVIDE, WIRE & INSTALL SALES REPLENISHMENT AREA SPEAKERS.
- C8 (1) 4 PAIR CAT 6 24AWG CABLE BETWEEN DOCK DOOR & HFT RACK FOR TELEPHONE. TERMINATE ON BOTH ENDS.
- C9 SECURITY CAMERA & (1) CAT 6 24AWG 4 PAIR CABLE FROM CAMERA TO RACK. TERMINATE CABLES AT BOTH ENDS. VERIFY EXACT LOCATION OF CAMERAS WITH CCTV VENDOR PRIOR TO ROUGH IN.
- C10 (1) CAT 6 24AWG CABLE FROM TRAFFIC COUNTER TO HFT RACK. TERMINATE AT BOTH ENDS.
- C11 (1) CAT 6 24AWG CABLE FROM WIRELESS ACCESS POINT TO HFT RACK. TERMINATE AT BOTH ENDS.
- C12 (1) CAT 6 24AWG 4 PAIR CABLE FROM TIME CLOCK (CENTERED BETWEEN WINDOW & DOOR) TO HFT RACK. TERMINATE AT BOTH ENDS.
- C13 (2) CAT 6 24AWG 4 PAIR CABLES FROM PRINTER/FAX TO HFT RACK. TERMINATE AT BOTH ENDS.
- C14 (2) CAT 6 24AWG 4 PAIR CABLES FROM MANAGERS WORK STATION TO HFT RACK. TERMINATE AT BOTH ENDS.
- C15 (2) CAT 6 24AWG 4 PAIR CABLES FROM MANAGERS WALL TO HFT RACK. TERMINATE AT BOTH ENDS.
- C16 NOTE NOT USED.
- C17 (1) RG59 COAXIAL CABLE FROM CCTV MONITOR TO RACK. TERMINATE AT BOTH ENDS.
- C18 (1) CAT 6 24AWG 4 PAIR CABLE FROM CASH ROOM TO HFT RACK. TERMINATE AT BOTH ENDS.
- C19 (1) RJ31X PHONE JACK MOUNTED AT -101" AFF FOR SECURITY PANEL.
- C20 (1) RJ31X PHONE JACK & 4 PAIR CAT 6 24AWG CABLE BETWEEN PHONE BOARD & HFT RACK FOR FIRE ALARM PANEL. TERMINATE ON BOTH ENDS. (TO BE PROVIDED WHEN FIRE ALARM SYSTEM IS TO BE INSTALLED).

COMMUNICATIONS SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SECURITY CAMERA
	DOOR CONTACT
	GLASS BREAK DETECTOR
	CEILING MOUNTED 360° DETECTOR
	WALL MOUNTED MOTION DETECTOR
	POWER POLE
	SPEAKERS
	WIRELESS ACCESS POINT
	DATA CABLE
	SPEAKERS & AMPLIFIER

DO NOT SCALE THESE DRAWINGS



HARBOR FREIGHT TOOLS

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NYACK, NY 10960

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REVISIONS	
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COMMUNICATIONS PLAN

DATE 9/22/21
JOB NO. 20420

E1.2
SHEET NO.