

DRAWING LIST:

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| SE-000 | COVER |
| SE-101 | SECURITY DESIGN PERIMETER SECURITY |
| SE-102 | SECURITY DESIGN FIRST FLOOR - A |
| SE-103 | SECURITY DESIGN FIRST FLOOR - B |
| SE-104 | SECURITY DESIGN SECOND FLOOR |
| SE-200 | SECURITY SYSTEM DEVICE SCHEDULE |
| SE-300 | SECURITY SYSTEM DEVICE RISER |
| SE-400 | SECURITY SYSTEM DEVICE TYPICAL |

| CABLE LEGEND W/BELDEN EQUIVALENTS | | | |
|-----------------------------------|------------------------|-----------|------------|
| A | 22Awg | 4 cond SH | A 6502FE |
| B | 22Awg | 4 cond | B 6502UE |
| C | 18Awg | 2 cond | C 6300UE |
| D | 22Awg | 6 cond SH | D 6504FE |
| E | 12Awg | 2 cond | E 6000UE |
| F | 22Awg | 12 cond | F 6509UE |
| G | RG-59U | Coax | G 643948 |
| H | 18Awg | 2 cond SH | H 6300FE |
| J | 18Awg | 4 cond | J 6302UE |
| K | 18Awg | 6 cond SH | K 6304FE |
| L | RG-6 | Coax | L 633948 |
| M | 22Awg | 6 cond | M 6504UE |
| N | 16Awg | 2 cond | N 6200UE |
| P | Cat 5e | | P 1701A |
| P6 | Cat 6A | | P6 7852A |
| R | 24Awg 1pr. Low Cap | | R 82841 |
| S | 24Awg 2pr. Low Cap | | S 82842 |
| T | 16Awg 1pr. cond SH | | T 6200FE |
| U | 20Awg 2pr. SH/Un | | (WP 25359) |
| X | DB Composite | | X 5439W5 |
| Z | Multi Composite-Access | | Z 658AFS |

TECHNOLOGY (T) LEGEND

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| | FIXED CAMERA | T: D - DOME |
| | PTZ CAMERA | T: D - DOME |
| | FIELD PANEL | T: NVR - NETWORK VIDEO RECORDER C - CARD ACCESS I - INTRUSION DETECTION SYSTEM S - SWITCH |
| | MOTION DETECTOR | T: X - REQUEST TO EXIT D - DUAL TECHNOLOGY |
| | AUTOMATIC MONITORING SWITCH | T: B - BALANCED MAG |
| | ALARM KEYPAD | T: I - INTRUSION DETECTION SYSTEM |
| | CARD READER | T: P - PROXIMITY |
| | BUTTON | T: ERB - EMERGENCY RELEASE BUTTON |
| | ELECTRIC LOCK | T: M - MAGLOCK MO - MORTISE LOCK S - STRIKE |
| | RACK | T: K - RACK (BY OTHERS) |
| | HINGE | T: 4 - FOUR-STRAND FIBER P - POWER TRANSFER |
| | EXIT DEVICE | T: ET - ELECTRIFIED TRIM M - MECHANICAL |

GENERAL NOTES:

- PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR ALL WORK INDICATED AS NECESSARY TO PROVIDE A COMPLETE AND USABLE SYSTEM. ALL ITEMS SHOWN AND SPECIFIED ARE TO BE NEW AND SHALL BE PROVIDED BY THE SECURITY CONTRACTOR UNLESS SPECIFICALLY STATED OTHERWISE.
- IN CASES WHERE THE TERM 'PROVIDE' IS USED THROUGHOUT THE CONTRACT DOCUMENTATION, IT SHALL MEAN FURNISH, INSTALL AND SERVICE.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING REQUIREMENTS: NATIONAL ELECTRICAL CODE (NEC) (NFPA 70), THE NATIONAL LIFE SAFETY CODE (NFPA101), THE APPLICABLE STATE BUILDING CODE AND ALL STATE AND LOCAL ORDINANCES THAT MAY SUPPLEMENT OR SUPERCEDE NATIONAL CODES.
- THE SECURITY CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONAL AND PERMITTING FEES AS REQUIRED BY LAW.
- THE SECURITY CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DRAWINGS AND SPECIFICATIONS TO ESTABLISH EXISTING SITE CONDITIONS AND COORDINATE REQUIREMENTS AND POINTS OF INTERFERENCE WITH OTHER TRADES AND WORK AS NECESSARY. NO SUBSEQUENT COST CLAIMS SHALL BE ALLOWED FOR DIFFERING SITE CONDITIONS NOR FOR INCREASED COST DUE TO COORDINATION REQUIREMENTS WITH OTHER TRADES.
- THE SECURITY CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL TRADES PRIOR TO ROUGH-IN.
- THE SECURITY CONTRACTOR SHALL VERIFY ALL EQUIPMENT CHARACTERISTICS AND MOUNTING REQUIREMENTS PRIOR TO DEVICE AND CABLE ROUGH IN.
- THE SECURITY CONTRACTOR SHALL COORDINATE ALL REQUEST TO EXIT TRIM AND ACCESSORIES WITH THE WALL/CEILING PROVIDED. PROVIDE ALL FITTINGS, TRIM, ETC FOR A COMPLETE INSTALLATION AT EACH CONTROL POINT.
- WHERE APPLICABLE, COORDINATE PLACEMENT OF DURESS SWITCHES WITH OWNER'S REPRESENTATIVE. THE DEVICE SHOULD BE PLACED IN AN INCONSPICUOUS LOCATION WITHIN REACH OF PERSONNEL INTENDED TO UTILIZE THE DEVICE, UNOBSTRUCTED BY FURNITURE OR OTHER EQUIPMENT.
- POWER SUPPLIES FOR ALL SECURITY DEVICES SHALL BE BACKED UP FROM UNINTERRUPTIBLE POWER SUPPLIES (UPS). THIS MAY BE ACCOMPLISHED BY MEANS OF INDIVIDUAL UPS UNITS SEGMENTED BY GROUPED SECURITY EQUIPMENT, UPS BACKUP ON PRIMARY 120/208/240VAC BRANCH CIRCUITS SUPPLYING SECURITY EQUIPMENT OR GENERATOR BACKED PRIMARY 120/208/240VAC BRANCH CIRCUITS SUPPLYING SECURITY EQUIPMENT AS LONG AS POWER SUPPLIES FED FROM SAID BRANCH CIRCUITS HAVE SUFFICIENT ON BOARD BATTERY SUPPORT TO MAINTAIN SYSTEM OPERATION DURING GENERATOR FAIL OVER TIME. IN NO CASE SHALL UPS RUNTIME BE LESS THAN ONE HOUR; THIS TIME MAY BE SUPERCEDED BY ADDITIONAL REQUIREMENTS WITHIN THE SPECIFICATION.
- WHERE BACKUP POWER IS ACCOMPLISHED BY MEANS OF INDIVIDUAL UPS UNITS SEGMENTED BY GROUPED SECURITY EQUIPMENT, THE SECURITY CONTRACTOR SHALL PROVIDE THE UPS.
- BRANCH CIRCUITS SUPPLYING POWER TO SECURITY DEVICES SHALL BE DEDICATED TO AND ONLY POWER SECURITY RELATED DEVICES. NO NON-SECURITY RELATED EQUIPMENT SHALL BE POWERED BY BRANCH CIRCUITS SUPPLYING POWER TO SECURITY DEVICES UNLESS THE ELECTRICAL CONTRACTOR IS GRANTED PERMISSION BY THE SECURITY SYSTEM DESIGN ENGINEER.
- ALL PENETRATIONS OF FIRE RATED FLOOR SLABS, FIRE RATED WALLS AND FIRE RATED ENCLOSURES SHALL BE SLEEVED IN APPROPRIATELY SIZED RIGID STEEL CONDUIT AND FIRESTOPPED IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATION, THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FIRE CODES. SLEEVE AND FIRESTOPPING SHALL BE PROVIDED BY THE INDIVIDUAL PENETRATING SAID SLAB OR WALL. FIRESTOPPING SYSTEMS SHALL BE HILTI BRAND AND INSTALLED AS APPROPRIATE FOR THE PENETRATION AND IN ACCORDANCE WITH THIS SECTION AND THE HILTI INSTALLATION INSTRUCTIONS.
- WHERE INSTALLED OUTDOORS OR IN DAMP OR HUMID ENVIRONMENTS, ENCLOSURES UTILIZED TO HOUSE SECURITY EQUIPMENT, USED AS PULL BOXES FOR SECURITY CABLING OR USED TO CONTAIN SPLICES FOR SECURITY CABLING SHALL BE OF A FIBERGLASS NEMA 4X RATING OR BETTER UNLESS APPROVED OTHERWISE BY THE SECURITY SYSTEM DESIGN ENGINEER.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL OF THE LOW VOLTAGE WIRING AND FIBER OPTIC CABLE FOR THE SECURITY DEVICES. THE ELECTRICAL CONTRACTOR SHALL FURNISH THE LOW VOLTAGE CABLE FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.
- ALL LOW VOLTAGE CABLING SHALL HAVE JACKETING APPROPRIATE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED. DIRECT BURIAL CABLE IS REQUIRED FOR INSTALLATION IN ANY UNDERGROUND OR EXTERIOR MOUNTED RACEWAY.
- ALL LOW VOLTAGE CABLING, WHERE INSTALLED IN AN UNDERGROUND ENVIRONMENT MUST BE INSTALLED INSIDE A RACEWAY SUITABLE FOR THE ENVIRONMENT IN WHICH IS INSTALLED AND AT A DEPTH IN ACCORDANCE WITH NEC TABLE 300.5.
- NO LOW VOLTAGE CABLING SHALL BE LESS THAN #22AWG WITH THE EXCEPTION OF CATEGORY (CAT) CABLING FOR NETWORKED DEVICES AND FACTORY MANUFACTURED AND ASSEMBLED CABLE ASSEMBLIES, UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.

DOT INDICATES LOCATION OF INSTALLED DEVICE

TYPICAL (REFER TO TYPICAL DRAWINGS) DEVICE NUMBER (REFER TO SCHEDULES) CAMERA NUMBER (IF CCTV)

CONNECTIVITY = C

M = MOUNT
T = TECHNOLOGY/TYPE (SPECIFIC TO DEVICE)

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| M: | P - POLE | C: | N - NETWORK/IP BASED |
| | PE - PEDESTAL | | W - WIRELESS |
| | T - TURNSTILE | | H - HARDWIRED |
| | S - SURFACE | | S - STAND ALONE |
| | F - FLUSH | | L - LASER |
| | R - RECESSED | | U - UTP |
| | M - MULLION | | FO - FIBER OPTIC |
| | D - DESK | | |
| | W - WALL | | |
| | C - CEILING | | |
| | CO - CORNER | | |
| | RF - ROOF | | |
| | PP - PARAPET | | |
| | PN - PENDANT | | |
| | K - RACK | | |
| | E - ELEVATOR | | |

TYPICAL MOUNTING HEIGHTS:

- IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.
- THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
- COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES AND CONTROLS WITH ALL AFFECTED TRADES PRIOR TO INSTALLATION, DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT AND DEVICES, AT THE TIME OF SHOP DRAWINGS SUBMISSION.

DESIGNER

OWNER

PROJECT

DRAWING

REVISIONS

GOOD HARBOR TECHMARK

NORTHERN UTILITIES, INC. FIT-UP

COVER

17 ACCORD PARK DRIVE, NORWELL MA 02061

6 LIBERTY LANE WEST HAMPTON, NEW HAMPSHIRE 03842

400 RIVERSIDE INDUSTRIAL PARKWAY PORTLAND, MAINE 04101