

CONTROL EQUIPMENT	
	COMBINATION MOTOR STARTER - MOUNT 4'-6" AFF TO CENTERLINE OF OPERATING HANDLE PROVIDE OVERCURRENT AND OVERLOADS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS FOR MOTOR HP
	MOTOR - HORSEPOWER AS INDICATED
	DISCONNECT SWITCH - MOUNT 4'-6" AFF TO CENTERLINE OF OPERATING HANDLE
	TRANSFORMER

STANDARD MOUNTING HEIGHTS	
9'-0" BELOW FINISHED CEILING	WALL-MOUNTED CLOCKS, PROGRAM BELLS, (OR AS SHOWN ON ARCHITECTURAL DETAIL)
6" ABOVE DOOR	NURSE CALL DOME LIGHT
6" ABOVE FIRE HOUSE CABINET	RED SIGNAL LIGHT
10'-0"	BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED LIGHT HEADS (OR 1'-0" BELOW FINISHED CEILING OF TOP UNIT)
8'-6"	PENDANT-HUNG INDUSTRIAL AND STRIP LIGHTING FIXTURES.
7'-8"	TELEVISION OUTLET AND SERVICE RECEPTACLE-FOR SHELF MOUNTED T.V. IN BEDROOMS.
7'-6"	OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER.
CENTER ABOVE DOOR OR WINDOW OPENING	WARNING AND SIGNALING FIXTURES/SIGNS.
6'-8"	OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER. FIRE ALARM SIGNAL DEVICES AND ILLUMINATED FIRE SIGNALS.
6'-6"	TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS AND TELEPHONE CABINETS.
6'-3"	TOP OF BACK-MOUNTED WALL EXIT FIXTURES (NOT MOUNTED ABOVE DOORS).
6'-0"	TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, CONTACTORS.
4'-6"	CENTERLINE OF OPERATING HANDLE FOR WALL MOUNTED DISCONNECT SWITCHES AND MOTOR STARTERS. WALL MOUNTED TELEPHONE AND PAY STATIONS (3'-6" AT HANDICAP LOCATIONS VERIFY EXACT HEIGHT PRIOR TO ROUGH IN)
3'-8"	WALL PHONE, ELECTRICAL DEVICE LIGHTING SWITCHES, MANUAL MOTOR STARTERS, SECURITY CARD, AND GFI RECEPTACLES IN TOILET ROOMS OR FOR SEPARATE SINKS NOT IN CASEWORK.
3'-6"	FIRE ALARM PULL STATIONS
2'-0"	ELECTRICAL RECEPTABLES WITHIN MECHANICAL SPACES, ELECTRICAL AND ELEVATOR ROOMS.
1'-6"	ELECTRICAL RECEPTABLES, TELEPHONE OUTLETS, DATA OUTLETS, TELEPHONE/DATA OUTLETS
0"	FINISHED FLOOR

**MOUNTING HEIGHT NOTES:**

- MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OF BRICK COURSEING.
  - THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
  - A "-" BESIDE A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL ROOM ELEVATIONS, DETAILS AND CASEWORK CONTRACTOR.
- THE ELECTRICAL SYSTEMS PRESENTED ON THE SUBSEQUENT DRAWINGS WERE DESIGNED IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODES AND STANDARDS:
- THE NATIONAL ELECTRICAL CODE (NEC), 2008
  - INTERNATIONAL BUILDING CODE (IBC), 2009
  - INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009
  - ASHRAE STANDARD 90.1

SIGNAL SYSTEM	
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	HEAT DETECTOR
	MANUAL PULL STATION - SHALL BE MOUNTED SUCH THAT THE HANDLE IS NOT LESS THAN 42" AND NOT GREATER THAN 48" AFF. WP - DENOTES NEMA 3R ENCLOSURE
	AUDIO ALARM - SHALL BE MOUNTED WITH THEIR TOPS AFF AT HEIGHTS OF NOT LESS 90" AFF
	VISUAL ALARM - SHALL BE MOUNTED SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF. WP - DENOTES NEMA 3R ENCLOSURE
	AUDIO/VISUAL ALARM - SHALL BE MOUNTED SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF.
	FIRE ALARM LOUD SPEAKER
	POWER SUPPLY MODULE
	DOOR HOLDER
	TIME CLOCK
	KEYPAD
	PUSHBUTTON
	FLOOR BOX MOUNTED DATA/TELEPHONE OUTLET
	VOLUME CONTROL
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	CARD READER - MOUNT 3'-10" AFF UNLESS OTHERWISE NOTED
	MICROPHONE JACK- SOUND SYSTEM
	PROJECTOR
	DATA/TELEPHONE OUTLET - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	DATA OUTLET WITH # OF JACKS (LACK OF NUMBER INDICATES BLANK COVER) - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	TELEPHONE OUTLET - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED

ABBREVIATIONS + SYMBOLS	
AFG	ABOVE FINISHED GRADE
ATG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
CT	COUNTER HEIGHT-44" AFF (UNLESS OTHERWISE NOTED)
DC	DUCT COIL
DF	DRINKING FOUNTAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
GC	GENERAL CONTRACTOR
GF	GROUND FAULT INTERRUPTER
HC	HVAC CONTRACTOR
HP	HEAT PUMP
KES	KITCHEN EQUIPMENT SUPPLIER
MW	MICROWAVE
PC	PLUMBING CONTRACTOR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
WM	WALL MOUNTED
WP	WEATHERPROOF
	DRAWING NOTE BY SYMBOL

LIGHTING	
	2'x2' FLUORESCENT LIGHTING FIXTURE
	DUCT MOUNTED LIGHTING FIXTURE
	2'x4' FLUORESCENT LIGHTING FIXTURE-EMERGENCY
	1'x8' FLUORESCENT LIGHTING FIXTURE
	2'x8' FLUORESCENT LIGHTING FIXTURE
	1'x4' FLUORESCENT LIGHTING FIXTURE
	6'x4' FLUORESCENT LIGHTING FIXTURE
	6'x2' FLUORESCENT LIGHTING FIXTURE
	WALL PACK LIGHTING FIXTURE
	FLUORESCENT STRIP LIGHT
	WALL WASHER FIXTURE
	ROUND RECESSED DOWNLIGHT FIXTURE
	NORMAL EMERGENCY FIXTURE
	EMERGENCY BATTERY UNIT
	REMOTE HEAD
	EXIT SIGN-DOUBLE FACE
	EXIT SIGN-CEILING MOUNTED WITH DIRECTIONAL ARROWS
	EXIT SIGN-SINGLE FACE
	WALL SCONCE

WIRING DEVICES	
	SINGLE POLE SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	3-WAY SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	4-WAY SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	KEY SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	SPRING WOUND TIME SWITCH, 5-MINUTE MAXIMUM DURATION - 3'-10" AFF UNLESS OTHERWISE NOTED
	TIMER SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	DIMMER SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	MANUAL MOTOR STARTER SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	3-WAY DIMMER SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	OCCUPANCY SENSOR SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	PILOT LIGHT SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - NEMA 5-20R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	COUNTER TOP DUPLEX RECEPTACLE
	TAMPERPROOF DUPLEX RECEPTACLE - NEMA 5-20R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	SINGLE RECEPTACLE - NEMA 14-50R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	ISOLATED GROUND RECEPTACLE
	GFI DUPLEX RECEPTACLE
	QUAD RECEPTACLE - NEMA 5-20R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	SPECIAL RECEPTACLE - NEMA 5-20R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	FLOOR BOX MOUNTED DUPLEX RECEPTACLE
	COMBINATION POWER/COMMUNICATIONS FLOOR BOX-DEVICES AS INDICATED
	MOTION DETECTOR
	ULTRASONIC OCCUPANCY SENSOR - 360°
	CEILING MOUNTED SPEAKER
	TELEVISION CABLE OUTLET

PANELBOARDS	
	SURFACE MOUNTED PANEL
	FLUSH MOUNTED PANEL

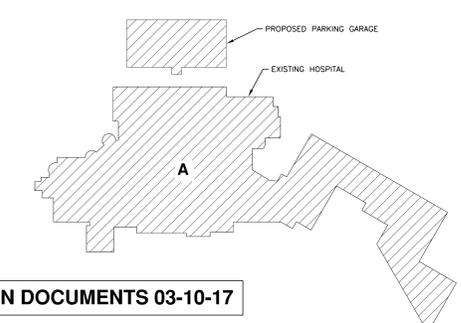
CIRCUITING	
	HOME RUN WITH CIRCUIT TAG
	MULTICONDUCTOR WIRING
	CONDUIT RISE
	CONDUIT DROP
	EMERGENCY CIRCUITING
	JUNCTION BOX
	BRANCH CIRCUIT NUMBER FOR ALL ITEMS IN THIS ROOM UNLESS OTHERWISE INDICATED - (*) INDICATES CONNECTION TO CIRCUIT NUMBER SHOWN NEXT TO DEVICE

**GENERAL NOTES:**

- CONTRACTOR SHALL PROVIDE BRANCH CIRCUIT WIRING TO ALL ITEMS WHICH REQUIRE ELECTRICAL CONNECTIONS. WHERE BRANCH CIRCUIT WIRING IS NOT SHOWN CONTRACTOR SHALL CONNECT ITEMS TO THE CIRCUITS INDICATED. EXACT ROUTING OF CONDUITS AND WIRING SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND SPECIFICATIONS.
- CONTRACTOR SHALL USE ONLY THOSE WIRING METHODS ALLOWED IN THE SPECIFICATIONS.
- A MAXIMUM OF 3 CIRCUITS SHALL BE RUN IN ONE CONDUIT, CIRCUITS MUST BE ON SEPARATE PHASES. CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL.
- MINIMUM WIRE SIZE SHALL BE #12AWG. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- THE ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- ALLOW CLEAR SPACE IN FRONT OF ALL PANELBOARDS, SWITCHBOARDS, ELECTRICAL EQUIPMENT, ETC., AS REQUIRED BY NEC.
- COORDINATE EXACT LOCATION OF LIGHTING FIXTURES WITH HVAC DUCTWORK, PIPING AND EQUIPMENT.
- ALL LIGHTING FIXTURES TO BE COMPATIBLE WITH THE CEILING CONSTRUCTION.
- ELECTRICAL CONTRACTOR TO SUPPLY ALL GROUNDING & BONDING REQUIREMENTS PER NEC.

TYPE	DESCRIPTION	MOUNTING			MANUFACTURER & CATALOG NUMBER	LAMPS	NOTES
		SURF	SUSP	HGT			
A	LED PARKING GARAGE LIGHT WITH WIDE DISTRIBUTION, UP-LIGHT AND BIRD SHIELD		*	SEE NOTE 4	SPAILDING LIGHTING #ARS-24L4K-070-SW-2-COLOR BY ARCHITECT-UD-SCP-ARS-B5-COLOR TO MATCH FIXTURE.	LED	1,3,4, 5 & 7
B	LED PARKING GARAGE LIGHT WITH WIDE DISTRIBUTION, UP-LIGHT AND BIRD SHIELD		*	SEE NOTE 4	SPAILDING LIGHTING #ARS-36L4K-070-SW-2-COLOR BY ARCHITECT-UD-ARS-B5-COLOR TO MATCH FIXTURE.	LED	1,3,4, 5 & 8
C	LIGHT STANDARD WITH 4 LIGHT HEADS AND 25' LONG 5" SQUARE STRAIGHT ALUMINUM POLE WITH HINGED BASE				SPAILDING LIGHTING #CL1-A-80L-U-4K-4-COLOR BY ARCHITECT	LED	1 & 3
D	LIGHT STANDARD WITH 2 LIGHT HEADS @ 90 DEGREES AND 25' LONG 5" SQUARE STRAIGHT ALUMINUM POLE WITH HINGED BASE				SPAILDING LIGHTING #CL1-A-80L-U-4K-4-COLOR BY ARCHITECT	LED	1 & 3
E	COLD WEATHER EXTERIOR EXIT SIGN	*			EMERGI-LITE - #NW-SVK24N-1-RD-4X-2-CW4-LJ-208V	LED	1 & 3
E1	WALL MOUNTED SCONCE WITH DUAL REMOTE FIXTURES	*			EMERGI-LITE - #LITE-2-LJ-COLOR BY ARCHITECT	LED	1 & 3
F	4" WALL BRACKET	*			KENALL #MLH48-48-F-MW-PP-45L40K-DV	LED	1 & 3
G	4" INDUSTRIAL	*			COLUMBIA LIGHTING #LCL4-35H-EU	LED	1 & 3
H	EXTERIOR AREA LIGHT	*			SPAILDING #OSP-30L4K-035-2-COLOR BY ARCHITECT	LED	1 & 3
J	WALL MOUNTED AREA LIGHT	*			SPAILDING #SL15-A-32L-2-4K-4-COLOR BY ARCHITECT-BC-WB	LED	1, 3 & 6
K	WALL MOUNTED UP-LIGHT	*			ELLUPHAR #S170-M009-S-COLOR BY ARCHITECT-8-V0-D-40	LED	3 & 6
L	8" WALL MOUNTED SIGN LIGHT	*			ARCHITECTURAL AREA LIGHT #PV-3340-18-HB-COLOR BY ARCHITECT-SLD-96	LED	3 & 6
M	4" VAPOR TIGHT WALL BRACKET	*			ILLUMINA - BS100LED-4-HT-50W-WTS-120-277	LED	1 & 3
SLA	LED LIGHT STANDARD WITH TYPE 5 OPTICS POLE				LITHONIA #S5X1 LED 300 1000MA 40K 15W 480 SPA PIRH 080K0	LED	9

NOTES: 1) ALL LABELS - 2) PROVIDE SINGLE OR DOUBLE FACE AS SHOWN ON THE DRAWINGS 3) WE LOCATIONS NOTED 4) PENDANT MOUNT FIXTURE TO BOTTOM OF FIXTURE IS EVEN WITH BOTTOM OF CONCRETE TEE. 5) PROVIDE TWO SCP-REMOTE CONTROLLERS FOR THE PROJECT VERIFY LOW END SETTING FOR FIXTURE WITH W6 PROGRAM EACH FIXTURE TO ACCOMMODATE VAS DESIRED SETTING. ENABLE DAYLIGHT HARVESTING FEATURE TO TURN FIXTURE OFF WHEN NATURAL LIGHT LEVELS REACH 5 FOOT CANDLES AS MEASURED BY SENSORS PHOTOCELL FEATURE. 6) PROVIDE WALL MOUNTING BRACKET AND HARDWARE. 7) PROVIDE AND FIELD INSTALL (4) FROSTED COMFORT SHIELDS CATALOG #ARS-CS PER FIXTURE. 8) PROVIDE AND FIELD INSTALL (6) FROSTED COMFORT SHIELDS CATALOG #ARS-CS PER FIXTURE. 9) PROVIDE A 4" SQUARE ALUMINUM POLE 22'-0" LONG COLOR TO MATCH LIGHT STANDARD.



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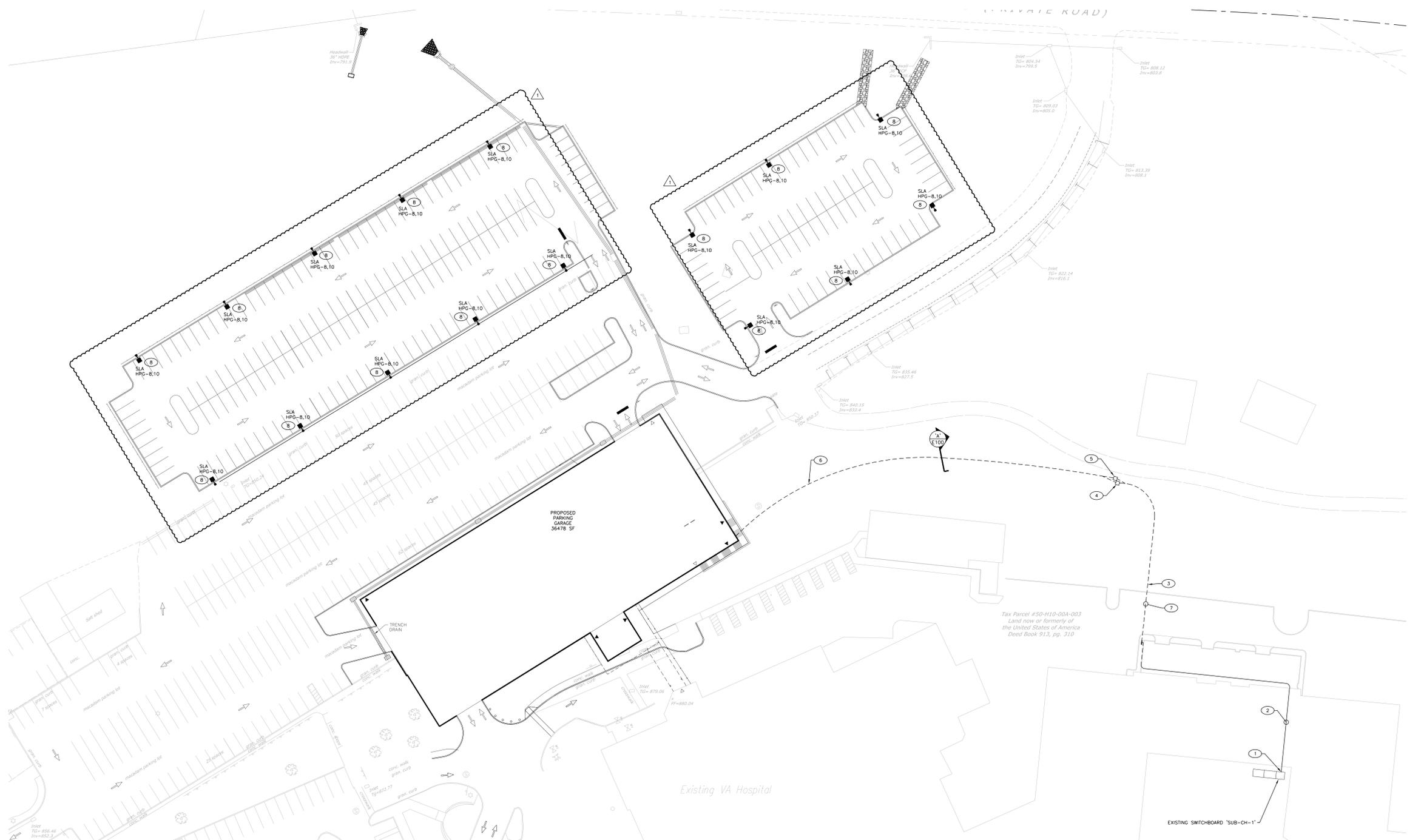
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REVISION #	DATE
#1	6/9/17



DRAWING TITLE ELECTRICAL COVER SHEET	PROJECT TITLE WB VAMC PARKING GARAGE	DATE MARCH 10, 2017
FACILITY PROJECT NAME WILKES-BARRE V.A. MEDICAL CENTER	BUILDING NUMBER PARKING GARAGE	PROJECT NO. 673-222
CHECKED KLP	DRAWN KLP	DRAWING NO. E-001
LOCATION 1111 EAST END BLVD, WILKES BARRE, PA	DWG. 1 OF 8	

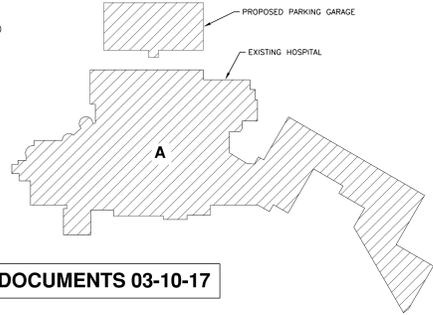
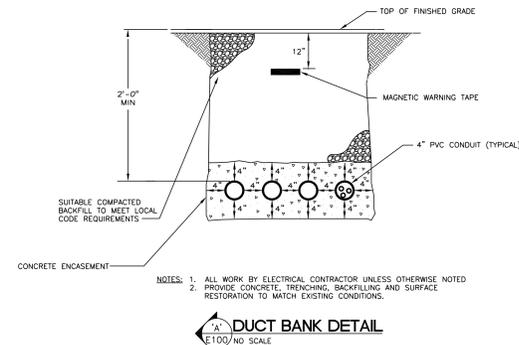




**PARTIAL SITE PLAN - ELECTRICAL**  
1"=30'-0"

**NOTES BY SYMBOL:**

1. PROVIDE A 400A-3P CIRCUIT BREAKER IN EXISTING SWITCHBOARD "SUB-CH-1". AIC OF NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING EXISTING CIRCUIT BREAKERS CURRENTLY INSTALLED IN THE SWITCHBOARD AS A MINIMUM. ATTACH CONDUIT TO EXISTING CONDUIT SUPPORTS BETWEEN SWITCHBOARD AND BUILDING. CORE DRILL EXISTING EXTERIOR WALL TO INSTALL CONDUITS INTO THE BOILER ROOM.
2. INSTALL CONDUITS UP HIGH THROUGH THE BOILER ROOM AND DROP ALONG EXTERIOR WALL TO INSTALL CONDUITS UNDERGROUND.
3. COORDINATE CONDUITS WITH OTHER UNDERGROUND UTILITIES IN THIS AREA. HAND DIG TRENCH IN THIS AREA TO EXPOSE ANY EXISTING UTILITIES WHICH MAY BE LOCATED IN THE PATH OF THE NEW CONDUITS.
4. PROVIDE A 36" X 36" X 36" DEEP FIBERGLASS HANDHOLE FOR TO ASSIST IN PULLING CONDUCTORS BETWEEN PARKING GARAGE AND HOSPITAL. ROUTE THE (2) 4" CONDUITS FOR ELECTRIC FEED TO THE GARAGE THROUGH THIS HANDHOLE. LID SHALL BE MARKED "ELECTRIC". HANDHOLE SHALL HAVE TRAFFIC RATED LID.
5. PROVIDE A 36" X 36" X 36" DEEP FIBERGLASS HANDHOLE FOR TO ASSIST IN PULLING CONDUCTORS BETWEEN PARKING GARAGE AND HOSPITAL. ROUTE THE (2) 4" CONDUITS (1) SPARE AND (1) FOR FIRE ALARM AND COMMUNICATIONS CABLES TO THE GARAGE THROUGH THIS HANDHOLE. LID SHALL BE MARKED "COMMUNICATIONS". HANDHOLE SHALL HAVE TRAFFIC RATED LID.
6. COORDINATE THE INSTALLATION OF THE NEW DUCTBANK WITH ALL UNDERGROUND UTILITIES.
7. CONDUITS RUN ALONG EXTERIOR WALL SHALL BE GALVANIZED RIGID CONDUIT. CONNECT NEW CONDUITS TO EXISTING CONDUITS STUDIED UP BUILDING WALL AND PULL FEEDER THROUGH THE PORTION EXISTING CONDUITS CROSSING THE DRIVEWAY, ETC TO PROVIDE THE REMAINDER OF THE FEEDER (CONDUIT & WIRE) TO PARKING DECK.
8. THE CIRCUIT CONTROLLING THIS LIGHT FIXTURE SHALL BE WIRED THROUGH A PHOTO CELL FOR DUSK TO DAWN OPERATION. THE PHOTOCELL SHALL BE MOUNTED ON THE FACE OF THE PARKING DECK FACING NORTH. REFER TO SITE LIGHT BASE DETAIL ON DRAWING E-501 FOR THE POLE MOUNTED LIGHT FIXTURE BASE DETAIL.



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REVISION #1	DATE
6/9/17	



DRAWING TITLE	PARTIAL SITE PLAN - ELECTRICAL
FACILITY PROJECT NAME	WILKES-BARRE V.A. MEDICAL CENTER

PROJECT TITLE	WB VAMC PARKING GARAGE
BUILDING NUMBER	PARKING GARAGE
CHECKED	KLP
DRAWN	KLP
LOCATION	1111 EAST END BLVD, WILKES BARRE, PA

DATE	MARCH 10, 2017
PROJECT NO.	673-222
DRAWING NO.	E-100
DWG.	2 OF 8



