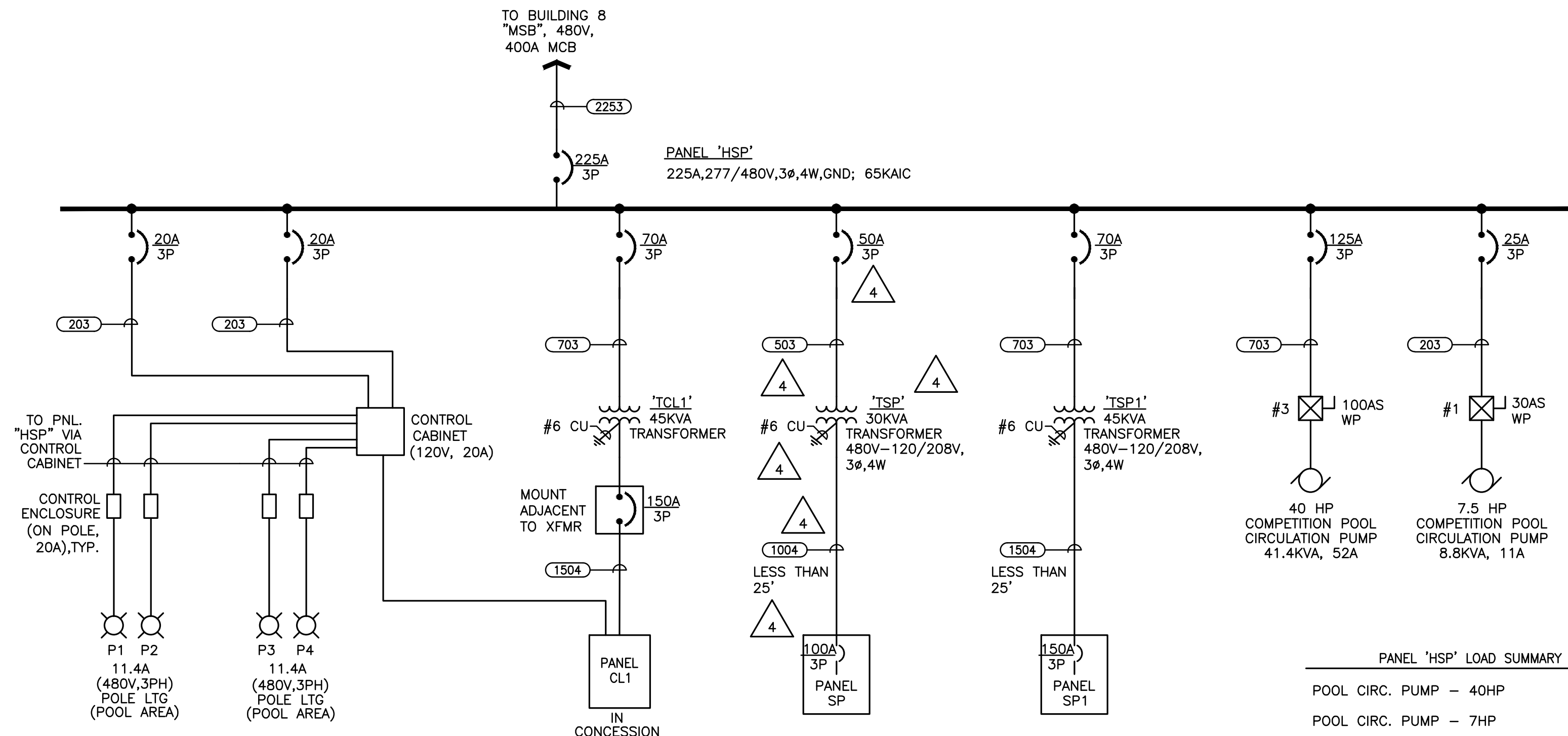


| LIGHTING FIXTURE SCHEDULE | | | | | | |
|--|---|---|----------|---------------------------|----------------------|--|
| LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. | | | | | | |
| TYPE: | DESCRIPTION: | MANUFACTURER AND CATALOG NO.: | VOLTAGE: | LAMP: | WATTS PER LUMINAIRE: | REMARKS: |
| F1 | EXTERIOR CEILING DOWNLIGHT FIXTURE WITH GLOSS WHITE FINISH, CLEAR TEMPERED GLASS LENS, MOLDED TRIM RING, SPECULAR CLEAR REFLECTOR, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, WITH WET LOCATION LABEL. | COOPER LIGHTING-PORTFOLIO C7-2-26-E-7280-W-3-WF-HB26 | 120 | 2-26W DTT COMPACT FLUOR. | 50 | LOCATION: POOL BUILDING- EXTERIOR CANOPY |
| F2 | 2" WIDE X 4" LONG SURFACE CEILING MOUNT, LENSED TROFFER FIXTURE WITH CLEAR PRISMATIC ACRYLIC LENS, LOW PROFILE HOUSING, ELECTRONIC BALLAST. | COOPER LIGHTING-METALUX 2GR8-332A-UNV-EB82-U | 120 | 3-F32T8/835 3500 K FLUOR. | 91 | |
| F3 | CHAIN HUNG STRIP LIGHT 4" LONG, WITH 12" WIDE WHITE REFLECTOR, ELECTRONIC BALLAST, AND WIRE GUARD. | COOPER METALUX 1AF-232-UNV-EB81-U-AYC-CHAIN/SET 48"-U-WG/C-4 FT-U | 120 | 2-F32T8/835 3500 K FLUOR. | 53 | |
| F3E | SIMILAR TO TYPE 'F3', BUT WITH 90 MINUTE EMERGENCY BATTERY BALLAST. | COOPER METALUX 1AF-232-UNV-EB81-U-AYC-CHAIN/SET 48"-U-WG/C-4 FT-U EMERGENCY BALLAST | 120 | 2-F32T8/835 3500 K FLUOR. | 53 | |



| PANEL 'HSP' LOAD SUMMARY | |
|--------------------------|-----------------------|
| POOL CIRC. PUMP - 40HP | 41.4KVA |
| POOL CIRC. PUMP - 7HP | 8.8KVA |
| PANEL 'SP1' | 25.5KVA |
| PANEL 'SP' | 43.4KVA |
| PANEL 'CL1' | 10.8KVA |
| TOTAL | 129.9KVA |
| | 156.5A@480V,3Ø |

2 SINGLE LINE DIAGRAM
E10.10 NOT TO SCALE

| PANEL CL1 | | LOCATION: | |
|--------------------|-------|-----------|--|
| TYPE DESCRIPTION | LOAD | BKR | CIR |
| R EGMT. RM. RECS. | 540 | 20/1P | 1 722 |
| R STORAGE RMS. | 750 | 20/1P | 3 900 |
| R REC GF-LT POLES | 1800 | 20/1P | 5 2000 |
| R REC GF-POOL AREA | 500 | 20/1P | 9 1300 |
| SPARE | 20/1P | 11 | 800 |
| FC-1 | 350 | 20/1P | 13 1150 |
| SPARE | 20/1P | 15 | 800 |
| SPACE | 20/1P | 17 | 530 |
| SPACE | 19 | 15Ø | 20 20/1P 15Ø L EM POOL EGMT. RM. |
| SPACE | 21 | 1800 | 22 20/1P 1800 L CONTROL CAB-MUSCO LTS. |
| SPACE | 23 | 1000 | 24 20/1P 1000 BMS-POOL BLDG |
| SPACE | 25 | 0 | 26 |
| SPACE | 27 | 0 | 28 |
| SPACE | 29 | 0 | 30 |
| SPACE | 31 | 0 | 32 |
| SPACE | 33 | 0 | 34 |
| SPACE | 35 | 0 | 36 |
| SPACE | 37 | 0 | 38 |
| SPACE | 39 | 0 | 40 |
| SPACE | 41 | 0 | 42 |
| | 4631 | 4800 | 4330 |
| | 39 | 40 | 36 |

| SIZE: | 150 | GROUNDING: | STANDARD SURFACE |
|--------------------|----------|-----------------------------|------------------|
| VOLTAGE: | 208/120V | MOUNTING: | ENCLOSURE: |
| PHASE: | 3 | FEED: | NEMA 1 |
| WIRE: | 4 | CONNECTED KVA PANEL: | 13.8 |
| LISS: | 10,000 | CONNECTED AMPS PANEL: | 38.2 |
| AIC RATINGS: | COOPER | RECEPTACLE KVA LOAD PANEL: | 0.1 |
| BUS: | 100K | OTHER KVA LOAD PANEL: | 5.4 |
| NEUTRAL: | | SPCL KVA LOAD (W/DMD FCTR): | 65% |
| | | LOAD (AMPS) PANEL: | 15.3 |
| MAX. ALLOWED AMPS: | 120 | | |

| COPPER FEEDER SCHEDULE - 3 PHASE, 3 WIRE | | | | |
|--|--------------|----------|---------|------------|
| FEEDER No. | AMPERE | FEEDER | GROUND | CONDUIT |
| 153 | 15A, 3PH3W | 3-#12 | #12 | 1/2" |
| 203 | 20A, 3PH3W | 3-#12 | #12 | 1/2" |
| 303 | 30A, 3PH3W | 3-#10 | #10 | 1/2" |
| 403 | 40A, 3PH3W | 3-#8 | #10 | 3/4" |
| 503 | 50A, 3PH3W | 3-#6 | #10 | 3/4" |
| 603 | 60A, 3PH3W | 3-#6 | #10 | 1" |
| 703 | 70A, 3PH3W | 3-#4 | #8 | 1" |
| 803 | 80A, 3PH3W | 3-#4 | #8 | 1" |
| 1003 | 100A, 3PH3W | 3-#2 | #8 | 1 1/4" |
| 1253 | 125A, 3PH3W | 3-#1 | #6 | 1 1/2" |
| 1503 | 150A, 3PH3W | 3-#1/0 | #6 | 1 1/2" |
| 1753 | 175A, 3PH3W | 3-#2/0 | #6 | 2" |
| 2003 | 200A, 3PH3W | 3-#3/0 | #6 | 2" |
| 2253 | 225A, 3PH3W | 3-#4/0 | #4 | 2 1/2" |
| 2503 | 250A, 3PH3W | 3-#250K | #4 | 2 1/2" |
| 3003 | 300A, 3PH3W | 3-#350K | #4 | 2 1/2" |
| 3503 | 350A, 3PH3W | 3-#400K | #2 | 3" |
| 4003 | 400A, 3PH3W | 3-#500K | #2 | 3" |
| 5003 | 500A, 3PH3W | 6-#250K | 2-#2 | (2) 2 1/2" |
| 6003 | 600A, 3PH3W | 6-#350K | 2-#1 | (2) 3" |
| 8003 | 800A, 3PH3W | 6-#500K | 2-#1/0 | (2) 3" |
| 10003 | 1000A, 3PH3W | 9-#400K | 3-#2/0 | (3) 3" |
| 12003 | 1200A, 3PH3W | 9-#600K | 3-#3/0 | (3) 4" |
| 16003 | 1600A, 3PH3W | 12-#600K | 4-#4/0 | (4) 4" |
| 20003 | 2000A, 3PH3W | 15-#600K | 5-#250K | (5) 4" |

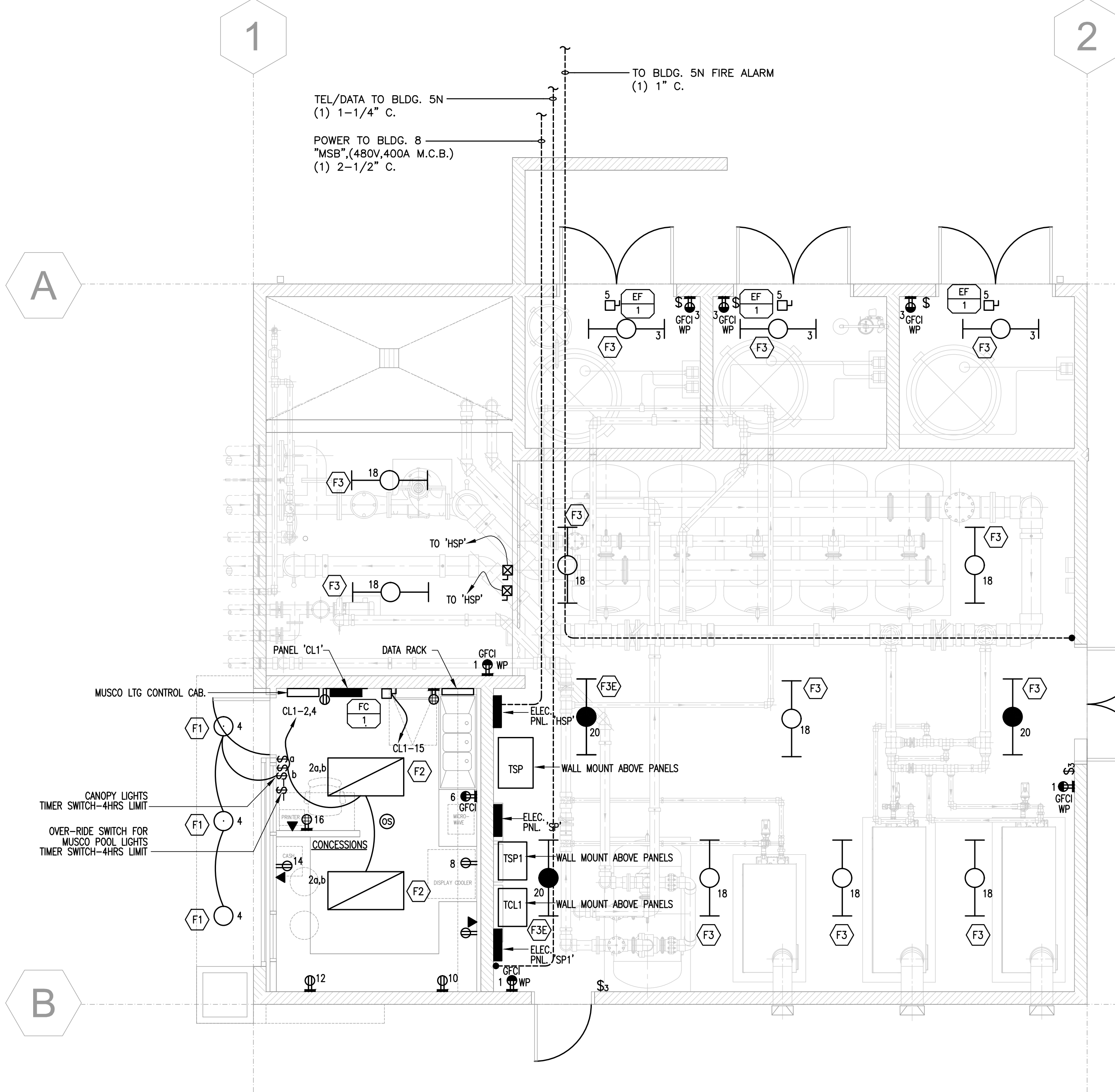
| COPPER FEEDER SCHEDULE - 3 PHASE, 4 WIRE | | | | |
|--|--------------|----------|---------|------------|
| FEEDER No. | AMPERE | FEEDER | GROUND | CONDUIT |
| 154 | 15A, 3PH4W | 4-#12 | #12 | 1/2" |
| 204 | 20A, 3PH4W | 4-#12 | #12 | 1/2" |
| 304 | 30A, 3PH4W | 4-#10 | #10 | 1/2" |
| 404 | 40A, 3PH4W | 4-#8 | #10 | 3/4" |
| 504 | 50A, 3PH4W | 4-#6 | #10 | 1" |
| 604 | 60A, 3PH4W | 4-#6 | #10 | 1" |
| 704 | 70A, 3PH4W | 4-#4 | #8 | 1 1/4" |
| 804 | 80A, 3PH4W | 4-#4 | #8 | 1 1/4" |
| 1004 | 100A, 3PH4W | 4-#2 | #8 | 1 1/4" |
| 1254 | 125A, 3PH4W | 4-#1 | #6 | 1 1/2" |
| 1504 | 150A, 3PH4W | 4-#1/0 | #6 | 1 1/2" |
| 1754 | 175A, 3PH4W | 4-#2/0 | #6 | 2" |
| 2004 | 200A, 3PH4W | 4-#3/0 | #6 | 2" |
| 2254 | 225A, 3PH4W | 4-#4/0 | #4 | 2 1/2" |
| 2504 | 250A, 3PH4W | 4-#250K | #4 | 2 1/2" |
| 3004 | 300A, 3PH4W | 4-#350K | #4 | 3" |
| 3504 | 350A, 3PH4W | 4-#400K | #2 | 3" |
| 4004 | 400A, 3PH4W | 4-#500K | #3 | 3 1/2" |
| 5004 | 500A, 3PH4W | 8-#250K | 2-#2 | (2) 2 1/2" |
| 6004 | 600A, 3PH4W | 8-#350K | 2-#1 | (2) 3" |
| 8004 | 800A, 3PH4W | 8-#500K | 2-#1/0 | (2) 3" |
| 10004 | 1000A, 3PH4W | 12-#400K | 3-#2/0 | (3) 3" |
| 12004 | 1200A, 3PH4W | 12-#600K | 3-#3/0 | (3) 4" |
| 16004 | 1600A, 3PH4W | 16-#600K | 4-#4/0 | (4) 4" |
| 20004 | 2000A, 3PH4W | 20-#600K | 5-#250K | (5) 4" |

Notes:

GENERAL NOTES

A. ALL LIGHTING AND POWER CIRCUITRY SHOWN ON PLAN IS CONNECTED TO PANEL 'CL1', UNLESS OTHERWISE NOTED.

B. CONTROL OF MUSCO LIGHTING VIA CONTROL CABINET IN THE POOL HOUSE SHALL INTERPHASE WITH THE 'BMS' LOCATED AT BLDG. 7.



1 LIGHTING, POWER & DATA PLAN
E10.10 SCALE: 1/4"=1'-0"

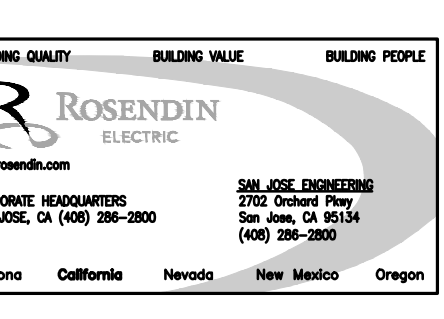
DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11/17/2010

| LIGHTING FIXTURES | | EQUIPMENT | | SINGLE LINE AND SCHEMATICS | | ABBREVIATIONS | |
|-------------------|---|--------------|--|----------------------------|---|---------------|---|
| | FLUORESCENT CEILING FIXTURE | | SWITCHBOARD | | CIRCUIT BREAKER: | A, AMP | AMPERES |
| | FLUORESCENT: OPEN STRIP | | PANELBOARD - SURFACE MOUNTED | | FUSIBLE SWITCH: | AFF | ABOVE FINISHED FLOOR |
| | CEILING SURFACE OR RECESSED DOWNLIGHT | | PANELBOARD - FLUSH MOUNTED | | RELAY | AIC | AMPERES INTERRUPTING CAPACITY |
| | WALL MOUNTED FIXTURE OR SCONCE | | TRANSFORMER | | DRAWOUT CIRCUIT BREAKER: | ATS | AUTOMATIC TRANSFER SWITCH |
| | WALL WASHER | | CONTACTOR | | DRAWOUT FUSIBLE SWITCH: | A/V | AUDIO/VISUAL |
| | TRACK MOUNTED FIXTURES (TRACK LENGTHS AS INDICATED WITH FITTINGS AND CONNECTORS AS REQUIRED) | | MAGNETIC STARTER | | NORMALLY OPEN CONTACT | BMS | BUILDING MANAGEMENT SYSTEM |
| | BOLLARD LUMINAIRE | | COMBINATION MAGNETIC STARTER/DISCONNECT | | NORMALLY CLOSED CONTACT | C | CONDUIT: WITH PULLCORD IF OTHERWISE EMPTY |
| | POLE OR POST MOUNTED CUTOFF LUMINAIRE | | NON-FUSIBLE DISCONNECT SWITCH | | RELAY COIL | CB, C/B | CIRCUIT BREAKER |
| | EMERGENCY LIGHTING UNIT: MOUNT AT LOWER OF +96" AFF OR 12" BELOW CEILING | | FUSIBLE DISCONNECT SWITCH | | TRANSFORMER | CLG | CEILING |
| | COMBINATION EMERGENCY LIGHTING UNIT & EXIT LIGHT | | VARIABLE FREQUENCY DRIVE | | CONTACTOR COIL | DPDT | DOUBLE POLE DOUBLE THROW |
| | EXIT LIGHT: FACES AND ARROWS AS INDICATED ON PLANS | | JUNCTION BOX - SIZE AS REQUIRED BY NEC | | RELAY COIL | DPST | DOUBLE POLE SINGLE THROW |
| | LOW LEVEL EXIT LIGHT: MOUNT AT BETWEEN +6" & +8" A.F.F. TO BOTTOM OF FIXTURE; & 4" MAX. FROM EDGE OF FIXTURE TO LATCH SIDE OF DOOR OR EXIT WAY OPENING. | | PLUG MOLD SURFACE RACEWAY AND DEVICES | | TRANSFER SWITCH (AUTOMATIC OR MANUAL PER PLANS) | (E) | EXISTING TO REMAIN |
| RECEPTACLES | | | TELEPOWER POLE | | PANEL - SEE PANEL SCHEDULE FOR DETAILS | EC | EMPTY CONDUIT |
| | SINGLE: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON | | POWER POLE | | PANEL WITH MAIN BREAKER - SEE PANEL SCHEDULE FOR DETAILS | EM | EMERGENCY |
| | DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON | CIRCUITING | | | NORMALLY OPEN CONTACT | EMT | ELECTRIC METALLIC TUBING |
| | SINGLE: 30A, 250V, NEMA 6-30R, +15" AFF TO BOTTOM UON | | IN WALL OR ABOVE CEILING | | NORMALLY CLOSED CONTACT | FACP | FIRE ALARM CONTROL PANEL |
| | DOUBLE DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON | | IN FLOOR OR BELOW GRADE | | CONTACTOR COIL | FBO | FURNISHED BY OTHERS |
| | HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON (TOP HALF SWITCHED) | | CIRCUITING TYPE: T = TELEPHONE C = CONTROL S = SECONDARY TV = TELEVISION P = PRIMARY | | RELAY COIL | FLUOR | FLUORESCENT |
| | DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20R GFCI, +15" AFF TO BOTTOM UON | | STUB OUT: MARK AND CAP | | TRANSFORMER | FU | FUSE: DUAL-ELEMENT, TIME DELAY |
| | DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20R IG, +15" AFF TO BOTTOM UON (ORANGE DEVICE AND FACEPLATE) | | CIRCUITING UP | | TRANSFER SWITCH (AUTOMATIC OR MANUAL PER PLANS) | GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| | SPECIAL RECEPTACLE - AS INDICATED ON PLANS, +15" AFF TO BOTTOM UON | | CIRCUITING DOWN | | PANEL - SEE PANEL SCHEDULE FOR DETAILS | G, GND | GROUND |
| | CLOCK HANGER: MOUNTED AT +80" AFF UON | | TICS = NO. OF #12 WIRES IF MORE THAN TWO // = NUMBER OF PHASE WIRES / = GROUND WIRE / = NEUTRAL WIRE | | PANEL - SEE PANEL SCHEDULE FOR DETAILS | HOA | HAND-OFF-AUTOMATIC |
| SIGNAL OUTLETS | | | HOMERUN = 1/2" C. UON, 4-#12, 1-#12G TO PANEL 'A', CIRCUIT NO.s 1, 3 AND 5 | | PANEL WITH MAIN BREAKER - SEE PANEL SCHEDULE FOR DETAILS | HID | HIGH INTENSITY DISCHARGE |
| | TELEPHONE OUTLET: 1-LINK, CAT6; +15" AFF TO BOTTOM UON | FIRE ALARM | | | PANEL - SEE PANEL SCHEDULE FOR DETAILS | HP | HORSEPOWER |
| | TEL/DATA OUTLET: 3-LINKS, CAT6; +15" AFF TO BOTTOM UON | | FIRE ALARM CONTROL PANEL: SURFACE MOUNTED UON | | MOTOR STARTER: NUMBER=NEMA STARTER SIZE | HPS | HIGH PRESSURE SODIUM |
| | DATA OUTLET: 2-LINKS, CAT6; +15" AFF TO BOTTOM UON | | FIRE ALARM TERMINAL CABINET: SURFACE MOUNTED UON | | MOTOR OVERLOADS | IG | ISOLATED GROUND |
| | TELEVISION OUTLET: +15" AFF TO BOTTOM UON | | FIRE ALARM REMOTE ANNUNCIATOR: FLUSH MOUNTED UON | | CURRENT TRANSFORMERS | INCAND | INCANDESCENT |
| | CAMERA OUTLET | | MANUAL PULL STATION: AT +48" TO TOP UON | | UTILITY COMPANY METER WITH CURRENT TRANSFORMERS | Kcmil | THOUSAND CIRCULAR MILS (1in. = 1000MILS) |
| | MICROPHONE OUTLET | | FIRE SPRINKLER WATER FLOW SWITCH | | INDICATOR LIGHT A=AMBER G=GREEN R=RED | KW | KILOWATT |
| | VOLUME CONTROL OUTLET | | FIRE SPRINKLER TAMPER SWITCH | | GROUND FAULT RELAY | KVA | KILOVOLT AMPS |
| | SPEAKER: CEILING MOUNTED UON | | SMOKE DETECTOR: CEILING MOUNTED | | SHUNT TRIP UNIT | LPS | LOW PRESSURE SODIUM |
| | CARD READER: +48" AFF UON | | HEAT DETECTOR: CEILING MOUNTED | | AMMETER | LTG | LIGHTING |
| | DOOR SECURITY: SYSTEM POWERED AND CONTROLLED, UON | | DUCT SMOKE DETECTOR | | VOLTMETER | LV | LOW VOLTAGE |
| SWITCHES | | | HORN: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON | | POWER FACTOR METER | MCB | MAIN CIRCUIT BREAKER |
| | SINGLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON | | CHIME: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON | | AMMETER SWITCH | MCC | MOTOR CONTROL CENTER |
| | DOUBLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON | | SPEAKER: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON | | VOLTMETER SWITCH | MCP | MOTOR CIRCUIT PROTECTOR |
| | THREE WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON | | STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON | | METHODS | MPOE | MINIMUM POINT OF ENTRY FOR TEL/DATA SERVICES |
| | FOUR WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON | | HORN AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON | | SHADING INDICATES: FIXTURE ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT | (N) | NEW |
| | TIMER SWITCH: 20A, 120V OR 277V, +48" AFF TO TOP UON | | CHIME AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON | | LETTERS INDICATE FIXTURE CONTROLLED BY SWITCHES 'a' & 'b' | NACB | NON-ADJUSTABLE CIRCUIT BREAKER |
| | 'P' = PILOT LIGHT SWITCH (LIGHTED WHEN 'ON'), +48" AFF TO TOP UON | | SPEAKER STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON | | DEVICES MOUNTED IN A MULTIGANG BOX UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON | NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| | 'K' = KEY OPERATED SWITCH, +48" AFF TO TOP UON | | BUILDING MOUNTED ALARM BELL PER LOCAL CODE | | DEVICES MOUNTED IN OR ABOVE BACKSLASH: MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON | N, NEUT | NEUTRAL |
| | MANUAL MOTOR STARTER WITH THERMAL OVERLOAD: 20A, 120V OR 277V | | MAGNETIC DOOR HOLDER: SYSTEM POWERED AND CONTROLLED, UON | | FLUSH FLOOR MOUNTED WIRING DEVICES | NIC | NOT IN CONTRACT |
| | MOMENTARY CONTACT: 20A, 120V OR 277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON | | FIREFIGHTERS TELEPHONE OUTLET: MOUNTED AT +48" TO TOP UON | | FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX | NL | NIGHT LIGHT |
| | DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE) | | FIRE SMOKE DAMPER | | RECEPTACLE MOUNTED IN CASEWORK | NTS | NOT TO SCALE |
| | LOW VOLTAGE SWITCH - WALL MOUNTED AT +48" TO TOP UON | DESIGNATIONS | | | RECEPTACLE MOUNTED IN JUNCTION BOX MOUNTED IN CEILING | OC | ON CENTER |
| | MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - WALL MOUNTED AT +48" TO TOP UON | | LIGHTING FIXTURE: F1 = TYPE, 3 = QTY., TYP = TYPICAL TYPES: | | FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED | PNL | PANEL |
| | MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - CEILING MOUNTED | | A = INCANDESCENT F = FLUORESCENT H = HIGH INTENSITY DISCHARGE X = EMERGENCY | | METHODS | PVC | POLYVINYL CHLORIDE CONDUIT |
| | PHOTOCELL ELECTRIC SWITCH: 1600VA UON | | SHEET NOTE | | METHODS | (R) | EXISTING TO BE RELOCATED |
| MISCELLANEOUS | | | MECHANICAL EQUIPMENT | | METHODS | RGS | RIGID GALVANIZED STEEL |
| | THERMOSTAT: MOUNT AT +48" TO TOP UON (PER MECHANICAL PLANS) | | FEEDER CIRCUITRY TAG X1 = CONDUIT X2 = FEEDER X3 = GROUND | | METHODS | SPDT | SINGLE POLE DOUBLE THROW |
| | EXHAUST FAN: FRACTIONAL HORSEPOWER | | DETAIL CALLOUT ON PLANS X = DETAIL NUMBER XX = SHEET NUMBER | | METHODS | SPST | SINGLE POLE SINGLE THROW |
| | MOTOR: NUMBER = HORSEPOWER | | GROUND ROD | | METHODS | TYP | TYPICAL |
| | EMERGENCY POWER OFF PUSH BUTTON | | GROUND WELL | | METHODS | UG | UNDER GROUND |

| DRAWING SCHEDULE | | REVISIONS | | | | | |
|------------------|--|-----------|------|----|-------|--------|--|
| SHEET | DESCRIPTION | NO. | DATE | BY | CHKD. | APP'D. | |
| E10.01 | LEGEND, ABBREVIATIONS AND DRAWING SCHEDULE | | | | | | |
| E10.02 | TITLE-24 COMPLIANCE FORM | | | | | | |
| E10.03 | NOT USED | | | | | | |
| E10.04 | ELECTRICAL MISCELLANEOUS DETAILS | | | | | | |
| E10.05 | ELECTRICAL MISCELLANEOUS DETAILS | | | | | | |
| E10.10 | LTG, POWER, DATA PLAN, SINGLE LINE DIAGRAM, PANEL SCHEDULE, LT. FIXTURE SCHEDULE | | | | | | |



McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 | 364-1339
F 415 | 397-5999



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DIV. OF THE STATE ARCHITECT
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APPL # 01-110097
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DATE _____
FILE NUMBER:

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College of San Mateo
Site Package
San Mateo, CA
Developed for
San Mateo County Community College District

| Revision | Description | Date |
|----------|---------------------------------------|-------------|
| 1 | 100% DESIGN DEVELOPMENT SUBMITTAL | 17-MAY-2010 |
| 2 | 50% CONSTRUCTION DOCUMENTS SUBMITTAL | |
| 3 | 100% CONSTRUCTION DOCUMENTS SUBMITTAL | |
| 4 | CONTRACT | |
| 5 | BULLETIN 4 | |
| 6 | POOL LIG & TEL/DATA REVISIONS | |
| 7 | POOL ROOM FIRE ALARM RISER CHANGE | |
| 8 | POOL ROOM FIRE ALARM PLAN | |
| 9 | POOL ROOM FIRE ALARM PLAN | |

| Revision | Description | Date |
|----------|---------------------------------------|-------------|
| 1 | 100% DESIGN DEVELOPMENT SUBMITTAL | 16-JUN-2008 |
| 2 | 50% CONSTRUCTION DOCUMENTS SUBMITTAL | 09-AUG-2008 |
| 3 | 100% CONSTRUCTION DOCUMENTS SUBMITTAL | 09-SEP-2008 |
| 4 | CONTRACT | 09-APR-2009 |
| 5 | BULLETIN 4 | |
| 6 | POOL LIG & TEL/DATA REVISIONS | 18-NOV-2009 |
| 7 | POOL ROOM FIRE ALARM RISER CHANGE | 18-NOV-2009 |
| 8 | POOL ROOM FIRE ALARM PLAN | 15-DEC-2009 |

Job No. 300085
Date 09 APR 2009
Drawn by FF/AA
Checked by TS
Scale AS SHOWN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11/17/2010

Pool Bldg. Legend,
Abbreviations &
Drawing Schedules
E10.01

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09/19/08

PROJECT ADDRESS: SAN MATEO, CA

PRINCIPAL DESIGNER/LIGHTING: TOM SATER TELEPHONE: 408-321-2207

DOCUMENTATION AUTHOR: TOM SATER TELEPHONE: 408-321-2207

GENERAL INFORMATION

DATE OF PLANS: 09-19-08 BUILDING CONDITIONED FLOOR AREA: 1,672 SQ. FT. CLIMATE ZONE: 3

BUILDING TYPE: NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL GUEST

UNCONDITIONED SPACES UNCONDITIONED SPACES INDOOR / OUTDOOR SIGNS

PHASE OF CONSTRUCTION: NEW ADDITION ALTERATION

METHOD OF COMPLIANCE

PERFORMANCE COMPLETE BUILDING AREA CATEGORY TAILORED COMMON LIGHTING

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR: TOM SATER SIGNATURE: DATE:

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements contained in applicable parts of Sections 110, 119, 130-132, 146, 148, & 149 of Title 24, Part 6.

The plans & specifications meet the requirements of Part 6 (Sections 10-103a). The installation certificates meet the requirements of Part 6 (10-103a.3).

The operation & maintenance information meet the requirements of Part 6 (10-103).
Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.

I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538, and 6737.1.

PRINCIPAL LIGHTING DESIGNER NAME: WILLIAM MAZZETTI SIGNATURE: DATE: LIC. #:

LIGHTING MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measure

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

| | |
|--|--|
| <input checked="" type="checkbox"/> LTG-1-C, Parts 1 of 4 and 2 of 4 | Certificate of Compliance - Part 1 of 4 and 2 of 4 are required for all submittals |
| <input type="checkbox"/> LTG-1-C, Part 3 of 4 | Certificate of Compliance - Part 3 of 4 submittal is required only if Control Credits are claimed |
| <input checked="" type="checkbox"/> LTG-1-C, Part 4 of 4 | Certificate of Compliance - Part 4 of 4 submittal is required when lighting controls are installed |
| <input checked="" type="checkbox"/> LTG-2-C | Indoor Lighting Schedule |
| <input type="checkbox"/> LTG-3-C | Portable Lighting Worksheet |
| <input type="checkbox"/> LTG-4-C | Lighting Controls Credit Worksheet |
| <input checked="" type="checkbox"/> LTG-5-C | Indoor Lighting Power Allowance |
| <input type="checkbox"/> LTG-6-C | Tailored Method Worksheet |
| <input type="checkbox"/> LTG-7-C | Room Cavity Ratio Worksheet |
| <input type="checkbox"/> LTG-8-C | Common Lighting Systems Method Worksheet |
| <input type="checkbox"/> DLTG-8-C | Line Voltage Track Lighting Worksheet |
| <input type="checkbox"/> DLTG-4-C | Signs (See DLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter) |

2005 Nonresidential Compliance Forms 2005 April

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08

INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

| | |
|--|---------|
| INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C) | 1,320 |
| PORTABLE LIGHTING (From LTG-3-C) | 0 |
| LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C) | - 0 |
| CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER | = 1,320 |

ALLOWED INDOOR LIGHTING POWER FOR CONDITIONED SPACES

COMPLETE BUILDING METHOD (from LTG-4-C)

AREA CATEGORY METHOD (from LTG-4-C)

TAILORED METHOD (from LTG-5-C)

| | |
|------------------------|-------|
| ALLOWED LIGHTING POWER | 1,354 |
|------------------------|-------|

ALTERNATE COMPLIANCE

PERFORMANCE METHOD

COMMON LIGHTING SYSTEM (from LTG-8-C)

ALLOWED INDOOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C) _____ Watts

MANDATORY LIGHTING MEASURES FOR INDOOR LIGHTING AND DAYLIGHT AREAS

MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

| CONTROL LOCATION (Room #, Area #, or Description) | CONTROL IDENTIFICATION | CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.) | SPACE CONTROLLED (List the location of controlled lights) | If Control is for Daylighting | NOTE TO FIELD |
|---|------------------------|---|---|-------------------------------------|---------------|
| CONCESSIONS | OS | OCCUPANT SENSOR | CONCESSIONS | <input checked="" type="checkbox"/> | |
| MECHANICAL ROOMS | SWITCHES | SWITCHES | MECHANICAL ROOMS | <input type="checkbox"/> | |

2005 Nonresidential Compliance Forms April 2005

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

Systems Acceptance: Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-A, Forms shall be submitted to the building department that:

A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 6.

Test Performed By:

Test Description

LTG-2-A: Lighting Control Acceptance Document

- Occupancy Sensor Acceptance
- Manual Daylight Controls Acceptance
- Automatic Time Switch Control Acceptance

Equipment requiring acceptance testing: _____

CEILING OCCUPANCY SENSOR _____

LTG-3-A: Automatic Daylighting Controls Acceptance Document

Equipment requiring acceptance testing: _____

2005 Nonresidential Compliance Forms September 2005

INDOOR LIGHTING SCHEDULE (Part 2 of 2) LTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08

INSTALLED LIGHTING POWER FOR UNCONDITIONED SPACES

| A | Luminaire | Lamps/Ballasts | | | Installed Watts | | | | | | |
|-----------------------------------|----------------------|----------------|-------------------------------|----------------|-----------------|----------------------------------|-------------------|-------------|----------------|-----------------------------|-----------------|
| | | C | D | E | F | G | H | I | J | | |
| Name | Type Description | Lamp Type | Number of Lamps per Luminaire | Watts per Lamp | Ballast Factor | Number of Ballasts per Luminaire | Watts per Ballast | CEC Default | # of Luminaire | Number of Luminaire (H x J) | Installed Watts |
| F1 | SEE FIXTURE SCHEDULE | CFL | 2 | 42 | 1 | 84 | ✓ | 2 | 168 | | |
| F2 | SEE FIXTURE SCHEDULE | F3278 | 2 | 32 | 1 | 64 | ✓ | 4 | 256 | | |
| F3/F3E | SEE FIXTURE SCHEDULE | F3278 | 2 | 32 | 1 | 64 | ✓ | 14 | 896 | | |
| BUILDING TOTAL (sum of all pages) | | | | | | | | | | | H 1,320 |
| CONTROL CREDIT (from LTG-4-C) | | | | | | | | | | | H 0 |
| ADJUSTED ACTUAL WATTS | | | | | | | | | | | H 1,320 |

2005 Nonresidential Compliance Forms September 2005

INDOOR LIGHTING POWER ALLOWANCE LTG-5-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES

| BUILDING CATEGORY (From § 146 Table 146-B) | WATTS PER (ft ²) | COMPLETE BLDG. AREA | ALLOWED WATTS |
|--|------------------------------|---------------------|---------------|
| CONCESSIONS KITCHEN | 1.6 | 204 | 326 |
| MECHANICAL EQUIPMENT ROOMS | .7 | 1,468 | 1,028 |
| TOTALS | | 1,672 | 1,354 |

TAILORED METHOD - CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-6-C) _____

UNCONDITIONED SPACES

| A | B | C | D |
|---|------------------------------|-------------------------|---------------|
| Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C) | WATTS PER (ft ²) | AREA (ft ²) | ALLOWED WATTS |
| TOTALS | | | |

TAILORED METHOD - UNCONDITIONED SPACES

TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-6-C) _____

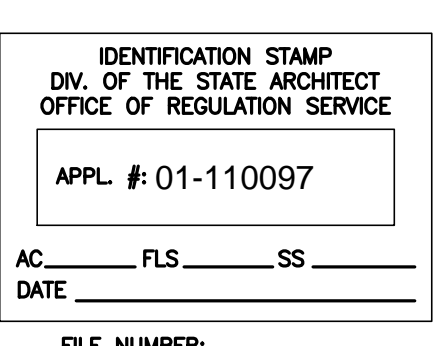
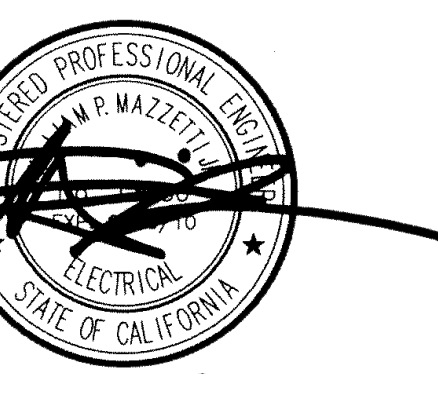
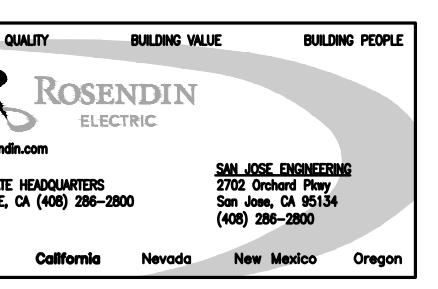
2005 Nonresidential Compliance Forms September 2005

TITLE 24 COMPLIANCE NOTES:

- BUILDING LIGHTING SHUT-OFF:**
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF LOCAL OCCUPANCY SENSORS ZONED FOR THE CONCESSIONS ROOM.
- OVERRIDE FOR BUILDING LIGHTING SHUT-OFF:**
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH SWITCHES FOR OCCUPANCY SENSOR OVERRIDE. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.
- AUTOMATIC CONTROL DEVICES CERTIFIED:**
ALL AUTOMATIC CONTROL DEVICES SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA AND INSTALLED AS DIRECTED BY THE MANUFACTURER FOR PROPER CONTROL AND OPERATION.
- FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED:**
ALL FLUORESCENT FIXTURES SPECIFIED SHALL BE LISTED IN THE DIRECTORY OF CERTIFIED LUMINAIRES AND BALLASTS. ALL INSTALLED FIXTURES SHALL BE CERTIFIED BY THE STATE.
- TANDEM WIRING:**
TANDEM WIRING IS NOT APPLICABLE TO THE SURFACE MOUNTED LUMINAIRES SPECIFIED IN THIS PROJECT.
- INDIVIDUAL ROOM/AREA CONTROLS:**
EACH ROOM AND AREA IN THIS BUILDING SHALL BE EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.
- UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:**
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND WITH MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- DAYLIGHT AREA CONTROL:**
ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET, WITH WINDOWS, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT, SHALL HAVE AT LEAST 50% OF THE LAMPS IN EACH DAYLIGHT AREA CONTROLLED BY A SEPARATE SWITCH.
- CONTROL OF EXTERIOR LIGHTS:**
EXTERIOR MOUNTED FIXTURES ATTACHED TO OR POWERED BY THE ELECTRICAL SERVICE IN BUILDINGS THAT CONTAIN CONDITIONED SPACE SHALL BE CONTROLLED WITH A DIRECTIONAL PHOTOCELL CONTROL ON THE ROOF OR AN ASTRONOMICAL TIME SWITCH AND A CORRESPONDING ELECTRICAL CONTACTOR THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN DAYLIGHT IS AVAILABLE. EXTERIOR LUMINAIRES WITH LAMPS RATED OVER 100 WATTS THAT HAVE A SOURCE EFFICACY OF LESS THAN 60 LUMENS PER WATT SHALL BE CONTROLLED BY A MOTION SENSOR.



McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 364-1339
F 415 397-5999



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DATE _____

FILE NUMBER: _____

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Site Package
San Mateo, CA

Developed for
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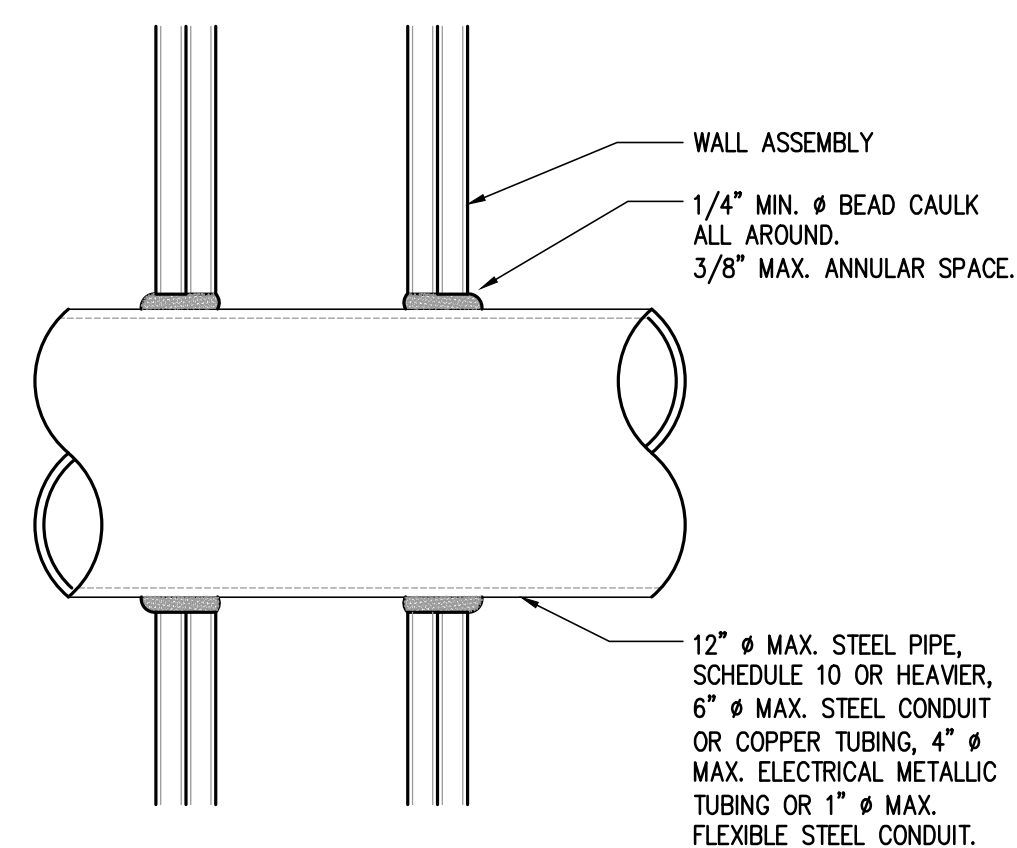
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| 1 | 100% DESIGN DEVELOPMENT SUBMITTAL | 17-MAY-2010 |
| 2 | 50% CONSTRUCTION DOCUMENT SUBMITTAL | 09-AUG-2009 |
| 3 | 30% SUBMITTAL | 09-APR-2009 |
| 4 | 20% SUBMITTAL | 09-APR-2009 |
| 5 | POOL ETS & TIE-DRAWINGS REVISIONS | 18-OCT-2009 |
| 6 | POOL ETS & TIE-DRAWINGS REVISIONS | 18-NOV-2009 |
| 7 | POOL ETS & TIE-DRAWINGS REVISIONS | 15-DEC-2009 |

| Revision | Description | Date |
|----------|-------------------------------------|-------------|
| 1 | 100% DESIGN DEVELOPMENT SUBMITTAL | 16-JUN-2009 |
| 2 | 50% CONSTRUCTION DOCUMENT SUBMITTAL | 09-AUG-2009 |
| 3 | 30% SUBMITTAL | 09-APR-2009 |
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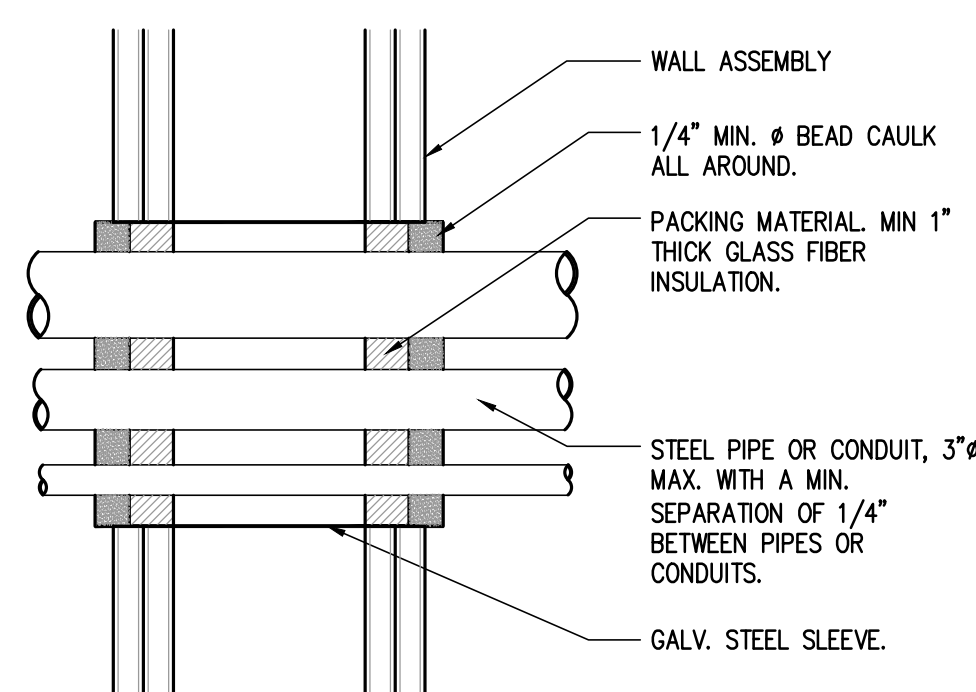
Job No. 300085
Date 09 APR 2009
Drawn by FF/AA
Checked by TS
Scale AS SHOWN

Pool Bldg, Title-24
Forms & Lighting
Fixture Schedule
E10.02

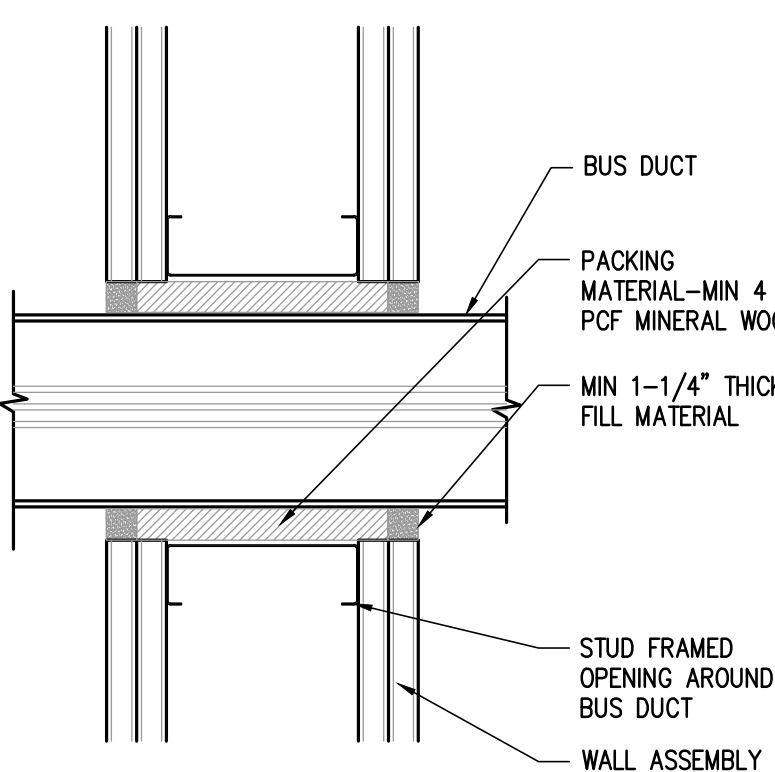
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ROSENDIN ELECTRIC, INC.
DATE: 11/17/2010



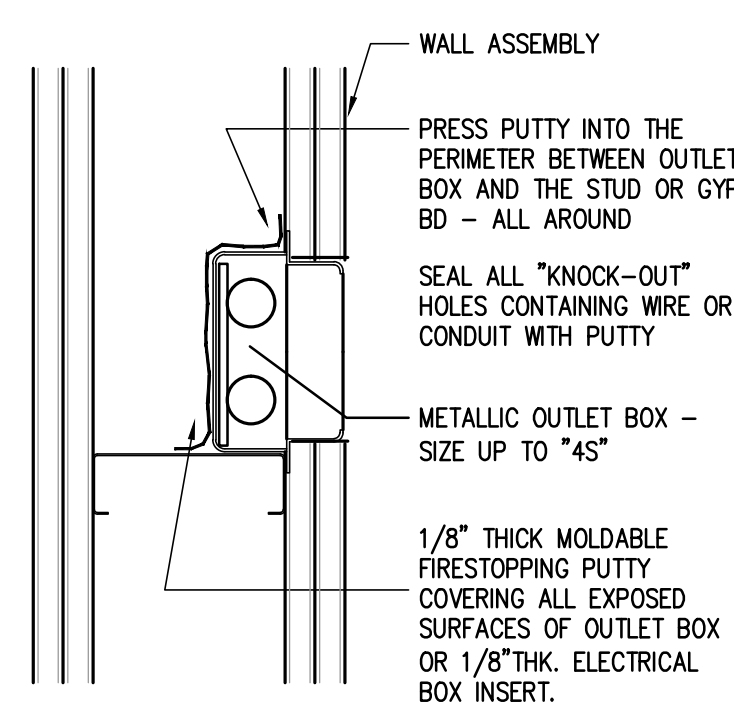
A. STEEL OR COPPER
(1-HR AND 2-HR UL W-L-1001 OR W-L-1049)



B. PIPE CONDUIT
(1-HR AND 2-HR UL W-L-1016)



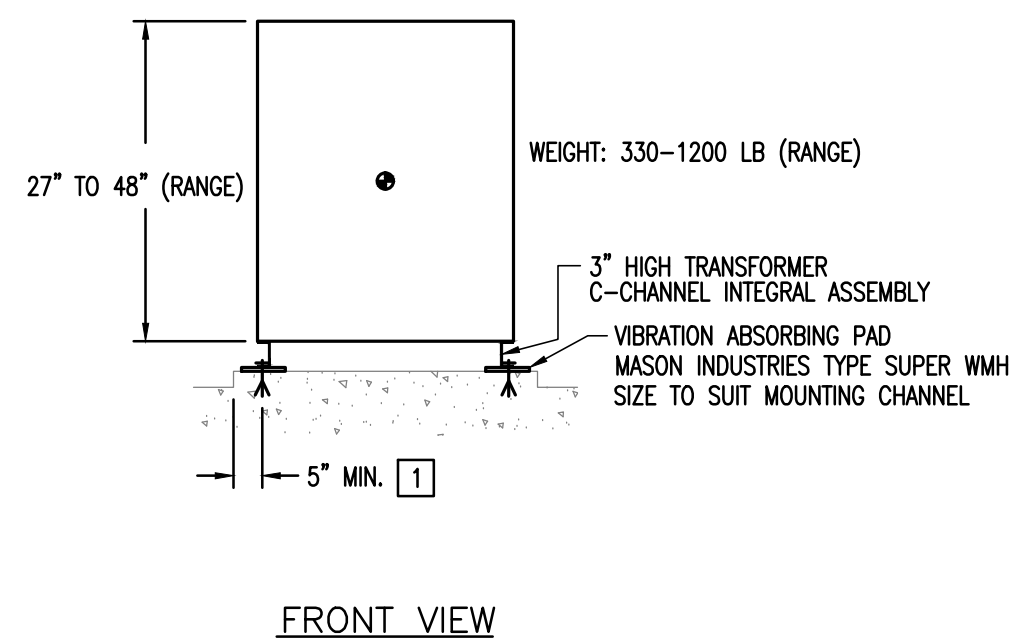
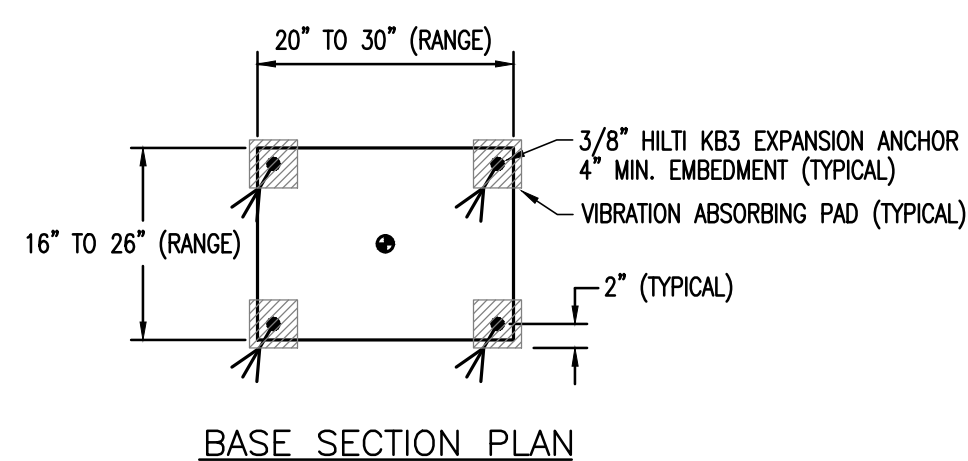
C. BUS DUCT
(1-HR AND 2-HR PER UL W-L-6003)



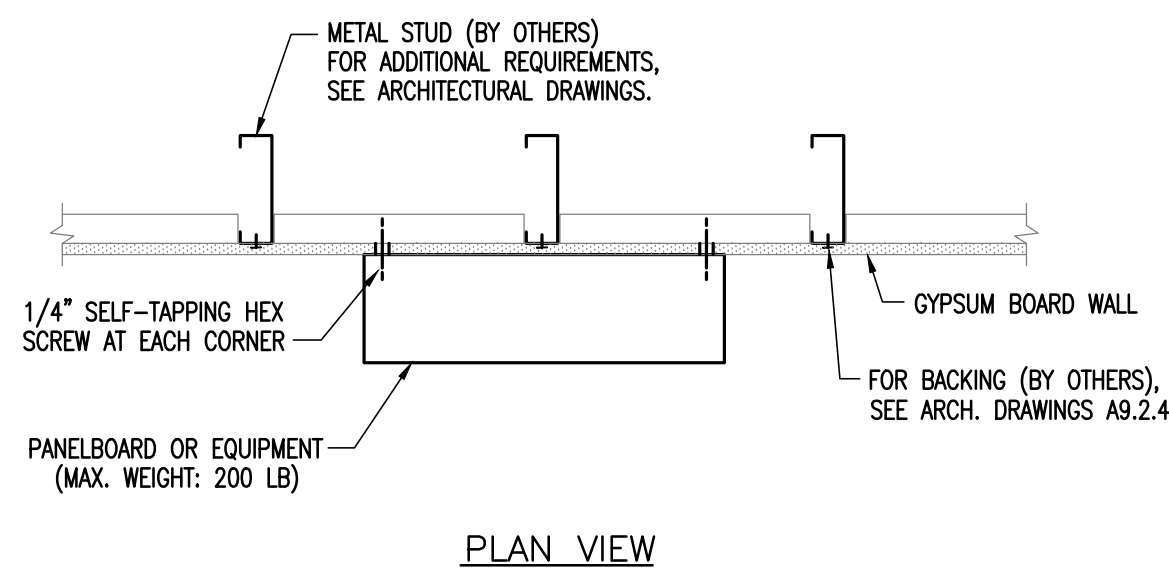
D. OUTLET BOX
(2-HR PER UL R9700 OR R10764 OR R14288)

PROVIDE OUTLET BOX FIRESTOPPING AT THE FOLLOWING LOCATIONS:

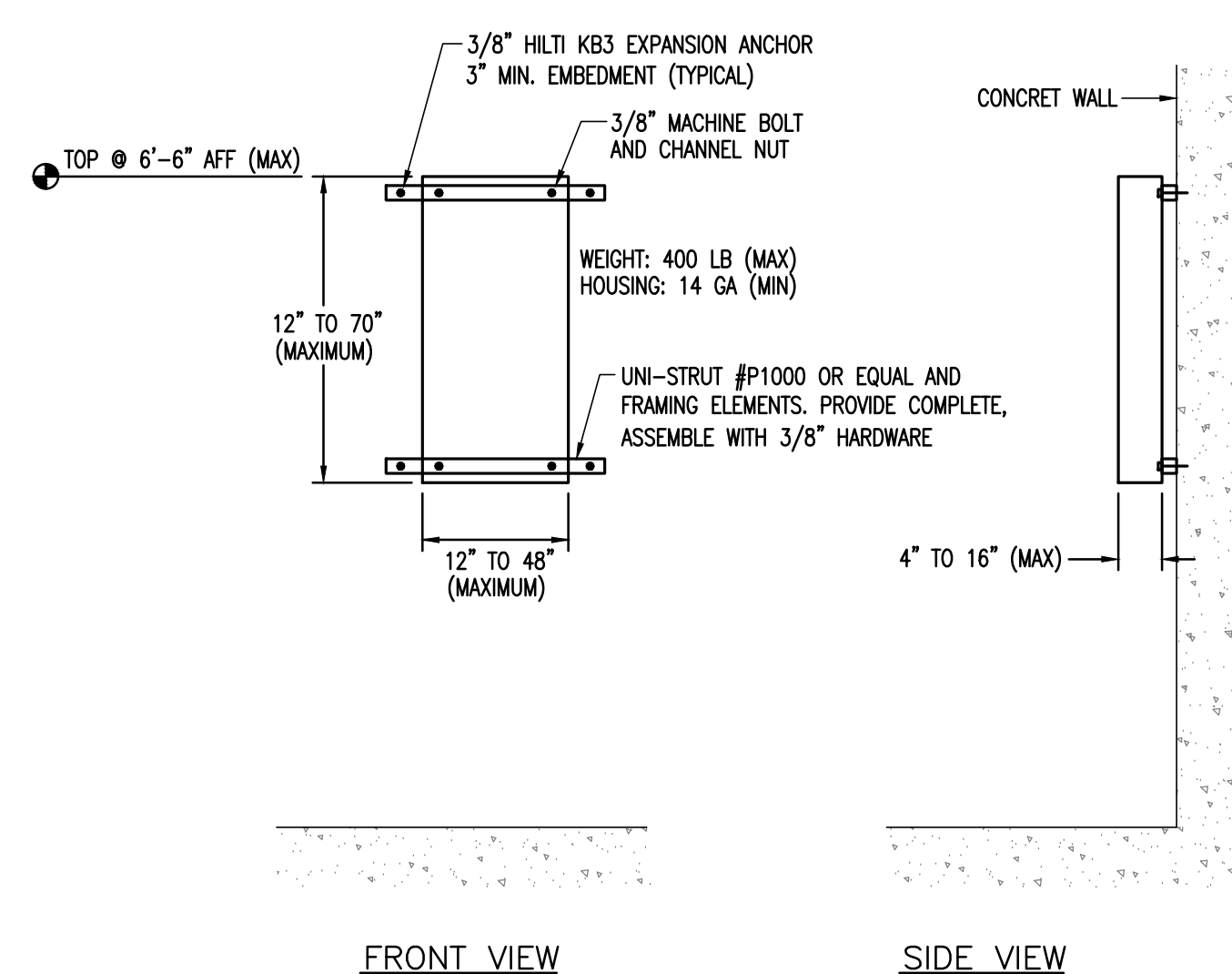
- WHERE AGGREGATE SURFACE AREA OF OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF CONTIGUOUS PARTITION
- WHERE OUTLET BOXES ON OPPOSITE SIDES OF PARTITION ARE SEPARATED BY LESS THAN 24 INCHES MEASURED HORIZONTALLY
- WHERE INDICATED BY THE DRAWINGS OR SPECIFICATIONS.



FRONT VIEW

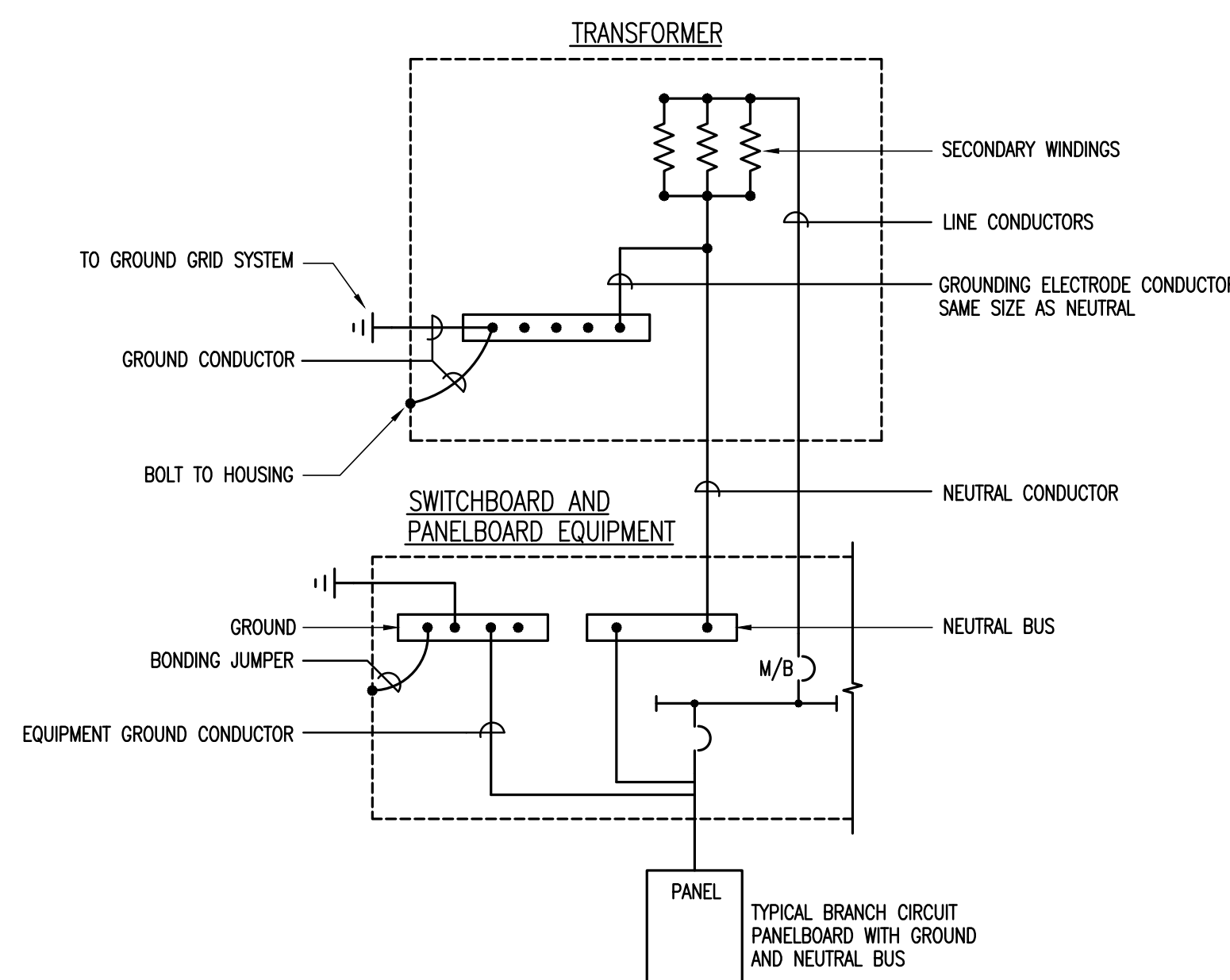


SURFACE MOUNTED PANEL OR CABINET ON METAL STUD WALL



FRONT VIEW SIDE VIEW

SURFACE MOUNTED PANEL/DISTRIBUTION PANEL OR CABINET @ CONCRETE WALL

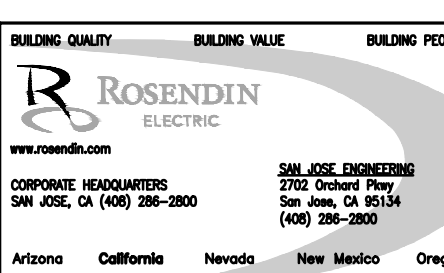


SHEET NOTES

1 SEE STRUCTURAL DRAWINGS FOR PAD CONFIGURATION REQUIREMENTS. SUBMIT DIMENSIONS OF PADS WITH EQUIPMENT SIZES FOR ARCHITECTS REVIEW PRIOR TO COMMENCING WORK. VERIFY EQUIPMENT DIMENSIONS WITH EQUIPMENT MANUFACTURER.



McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
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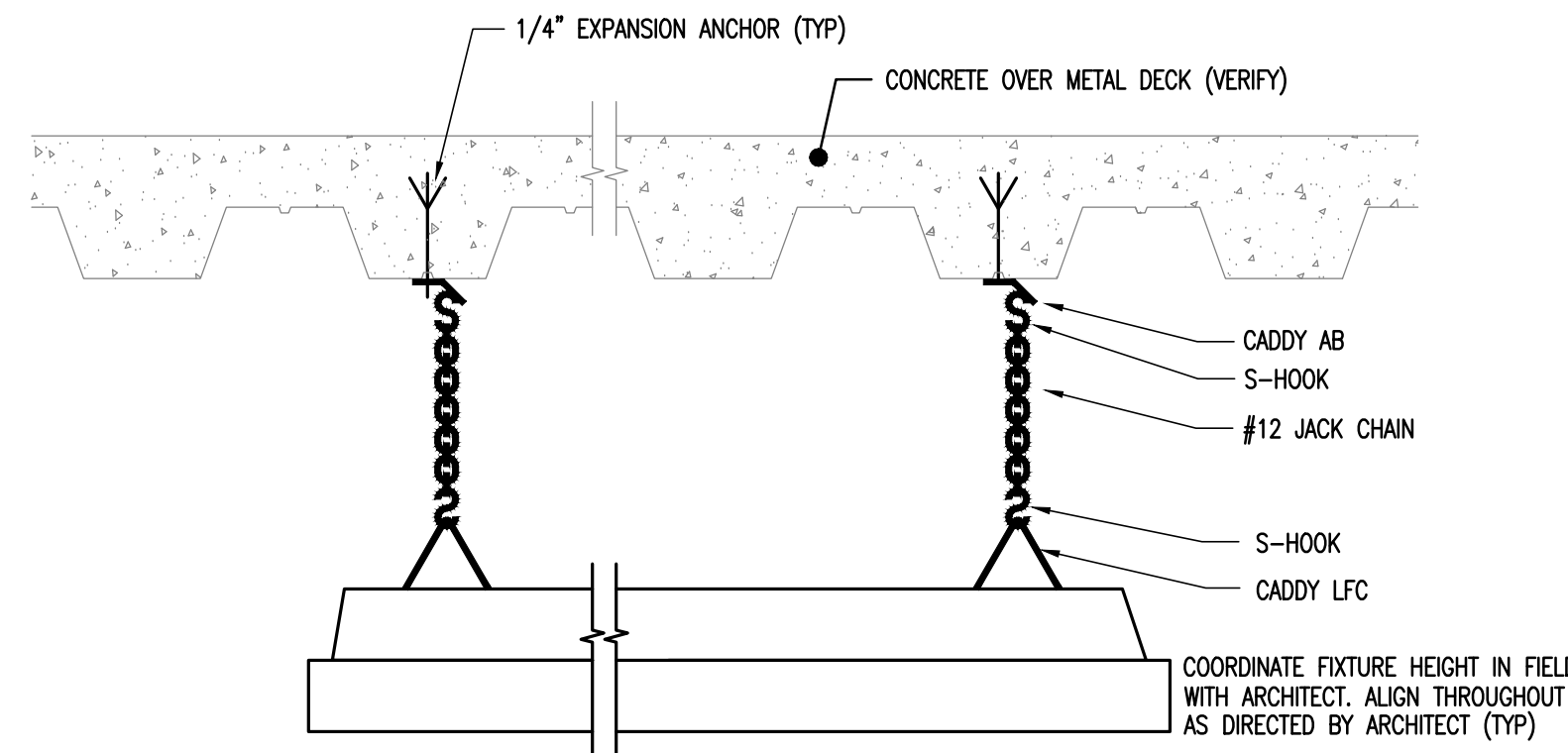
| Revision | Description | Date |
|----------|-------------------------------------|-------------|
| 1 | 100% DESIGN DEVELOPMENT SUBMITTAL | 16 JUN 2008 |
| 2 | 50% CONSTRUCTION DOCUMENT SUBMITTAL | 08 AUG 2008 |
| 3 | 30% SUBMITTAL | 09 SEP 2008 |
| 4 | 20% SUBMITTAL | 09 APR 2009 |
| 5 | PROPOSAL & TENDERS SUBMISSION | 18 OCT 2009 |
| 6 | PROBATIONARY CONTRACTORS CHANGE | 18 NOV 2009 |
| 7 | PROBATIONARY CONTRACTORS CHANGE | 15 DEC 2009 |

| | |
|---|-------------|
| Job No. | 300085 |
| Date | 09 APR 2009 |
| Drawn by | FF/AA |
| Checked by | TS |
| Scale | AS SHOWN |
| Pool Bldg. Electrical Miscellaneous Details | |
| E10.04 | |

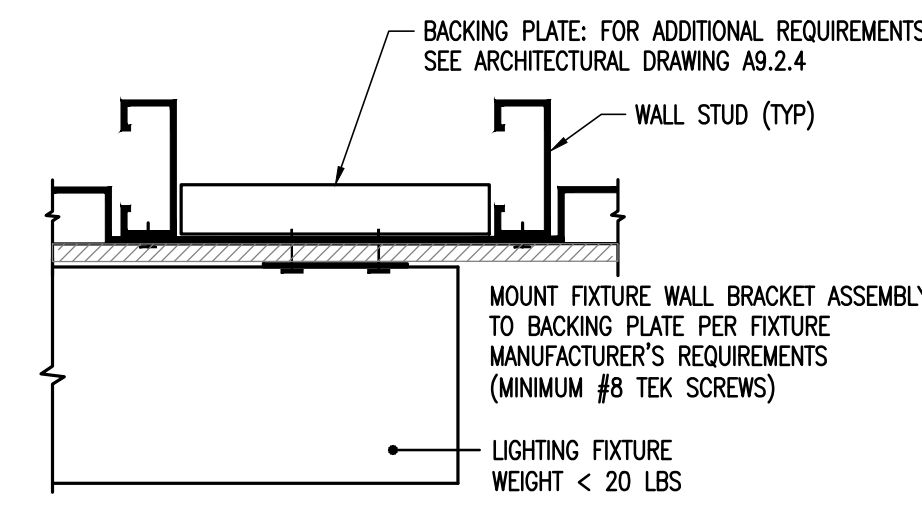
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EQUIPMENT ANCHORAGE AND SUPPORT NOTES

- ANCHOR ALL CONDUITS, RACEWAY AND ELECTRICAL EQUIPMENT TO BUILDING STRUCTURE OR STRUCTURAL MEMBERS.
- CONDUITS 1/2" TO 2": ATTACH TO STRUCTURE PER CALIFORNIA BUILDING CODE AND CALIFORNIA ELECTRICAL CODE ATTACHMENT REQUIREMENTS.
- CONDUITS 2 1/2" AND LARGER: ANCHOR TO STRUCTURE PER SPECIFICATION SECTION 16180.
- ALL CONDUITS TO BE SUPPORTED AT 10 FEET ON CENTERS AND WITHIN FEET OF ENDS.

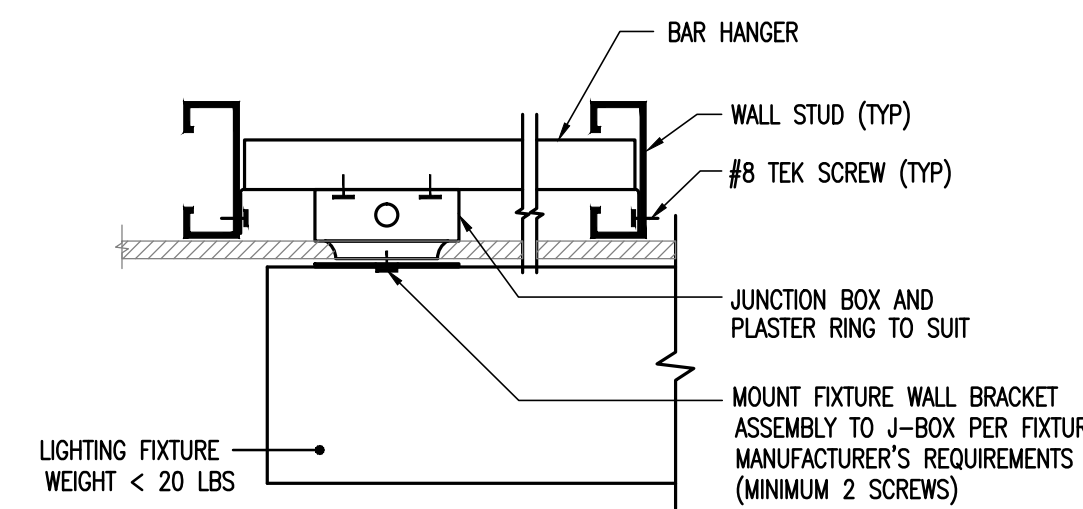


SUSPENDED CHAIN-HUNG FLUORESCENT

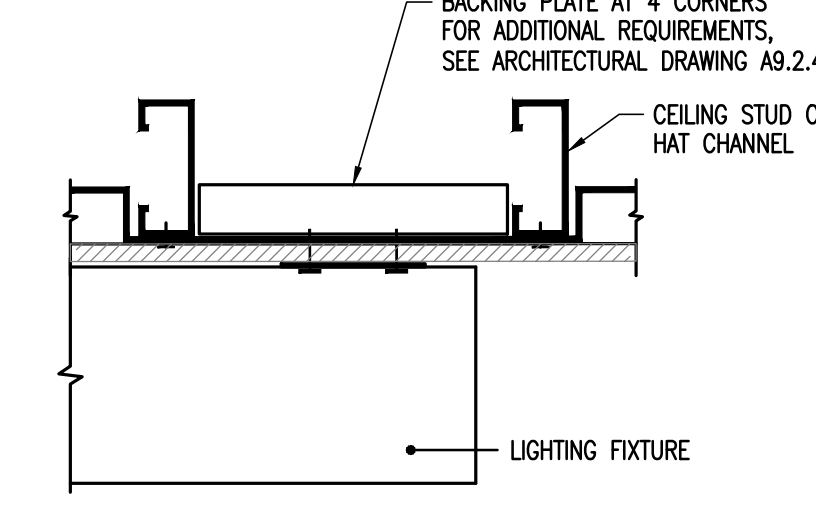


INTERMEDIATE/END SUPPORT

WALL SURFACE MOUNTED FLUORESCENT

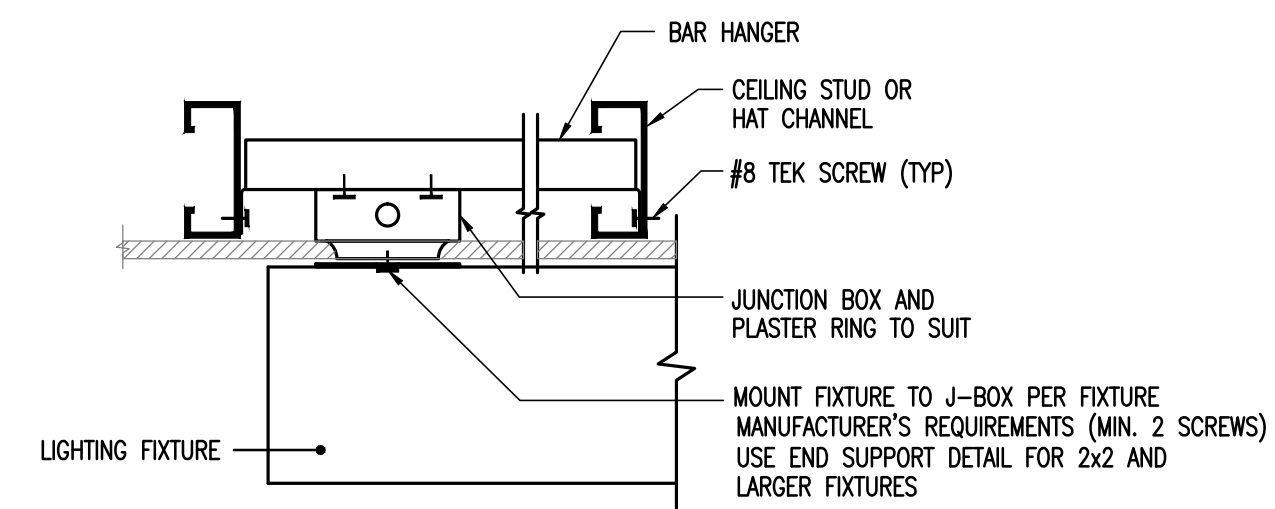


FEED-END SUPPORT

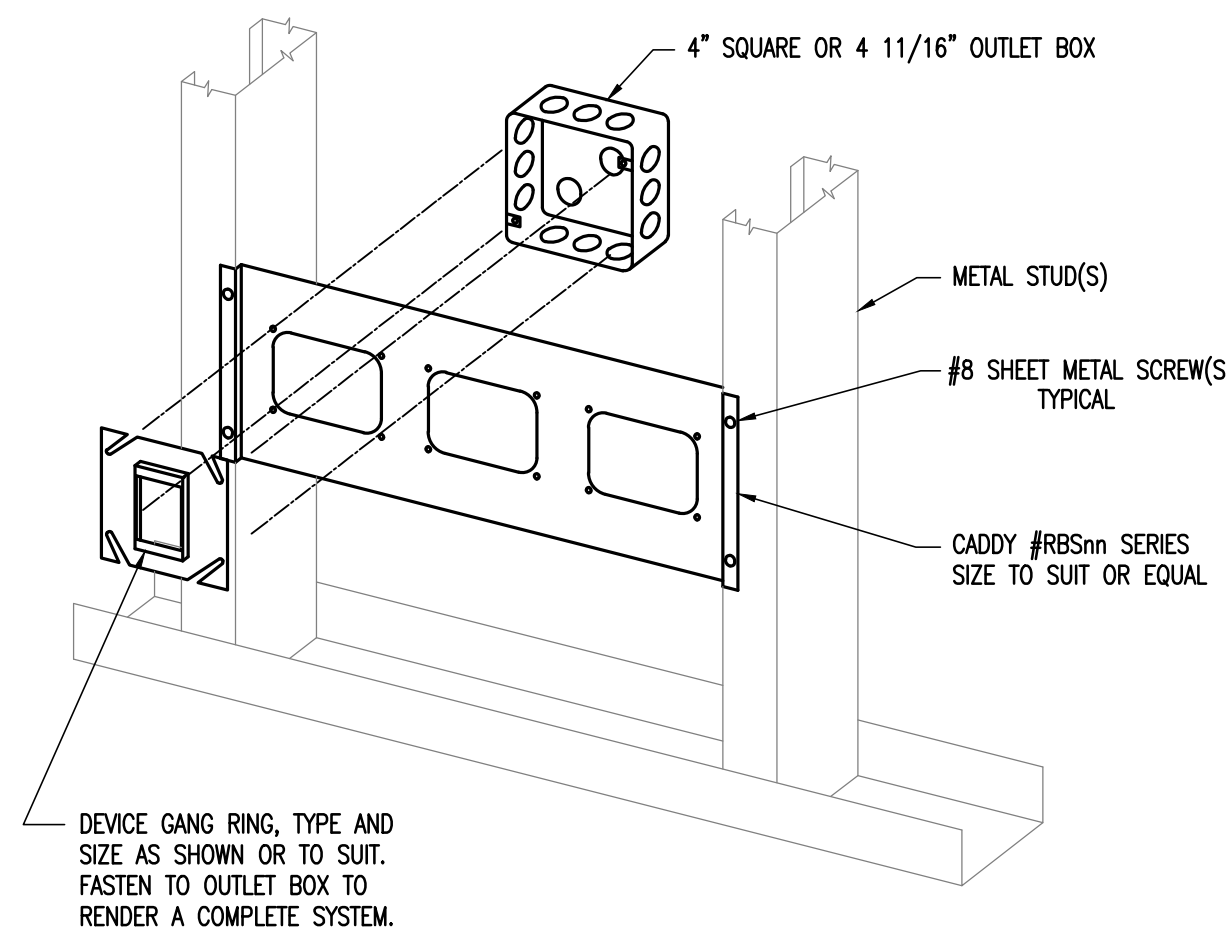


INTERMEDIATE/END SUPPORT

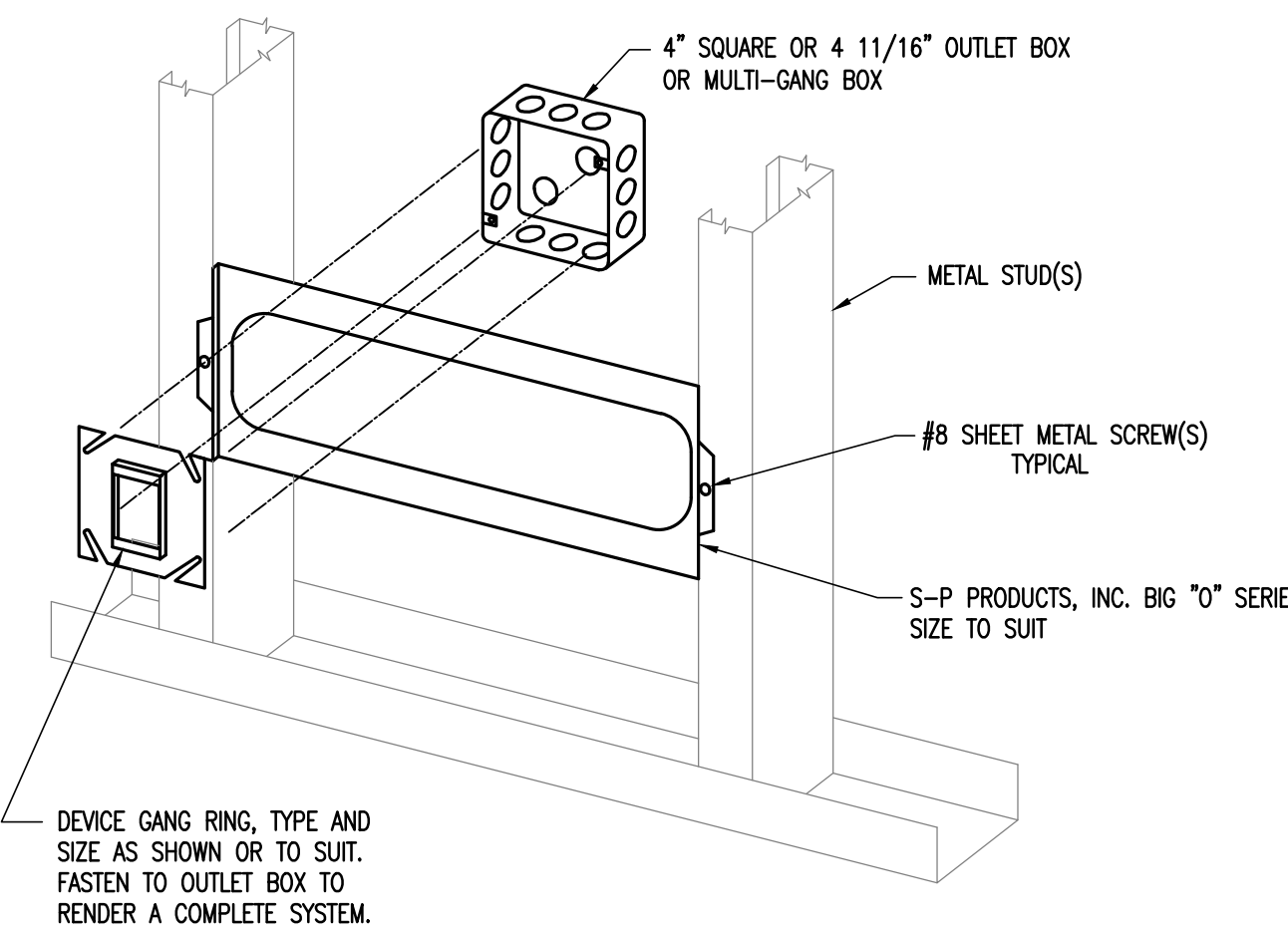
CEILING SURFACE MOUNTED FLUORESCENT



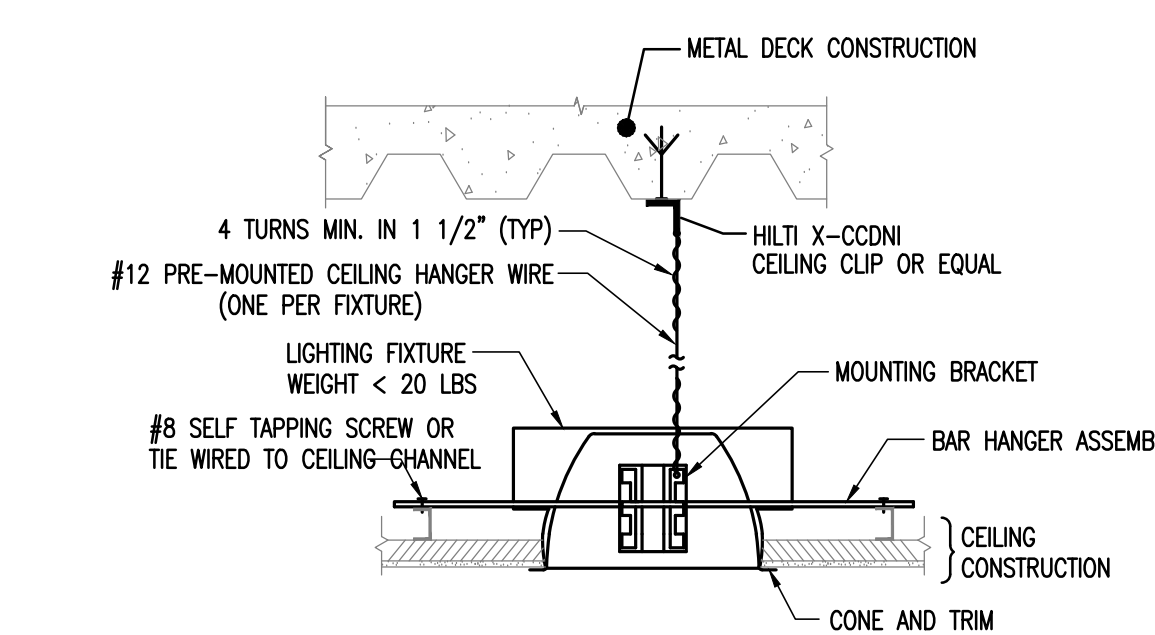
FEED-END SUPPORT



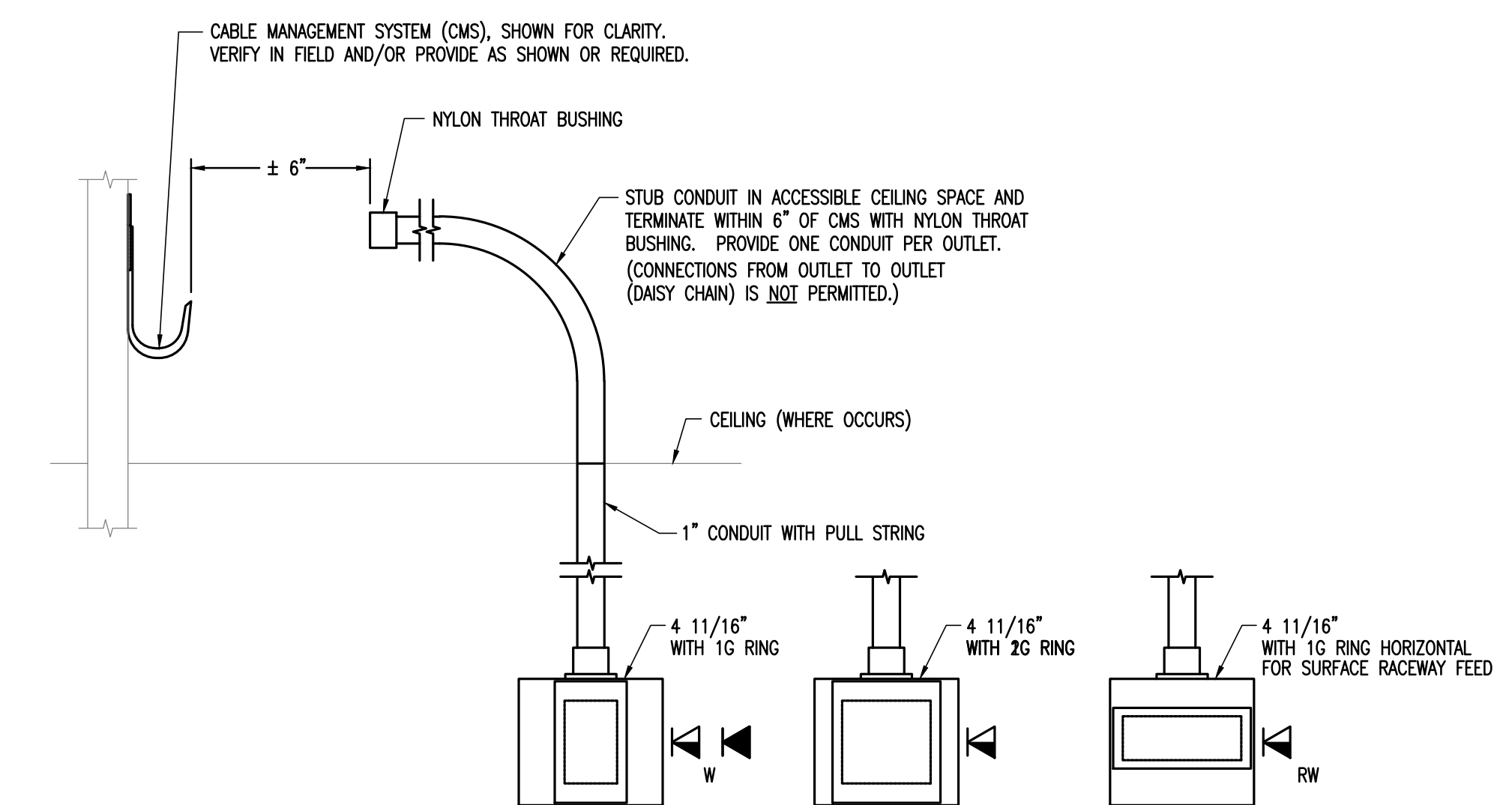
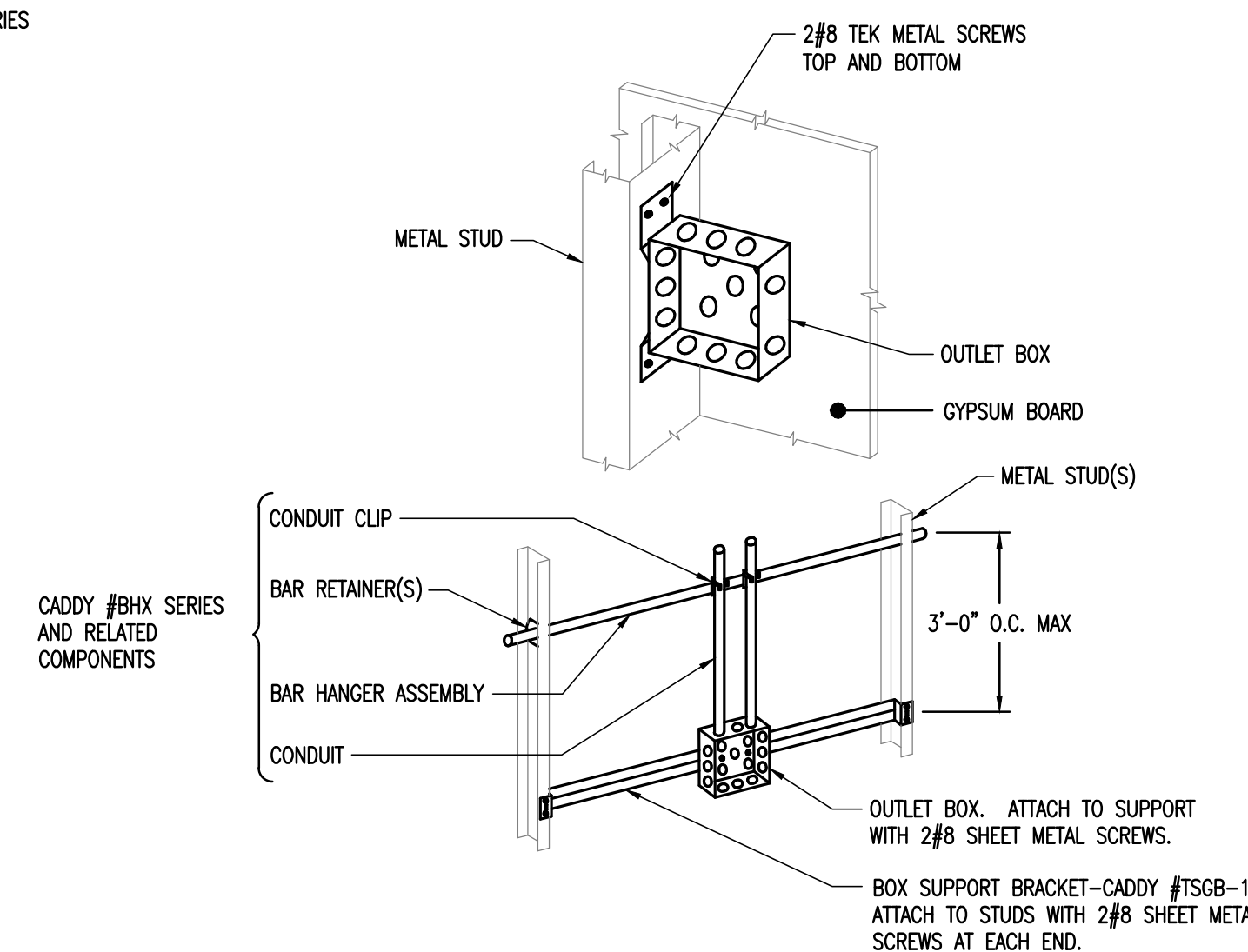
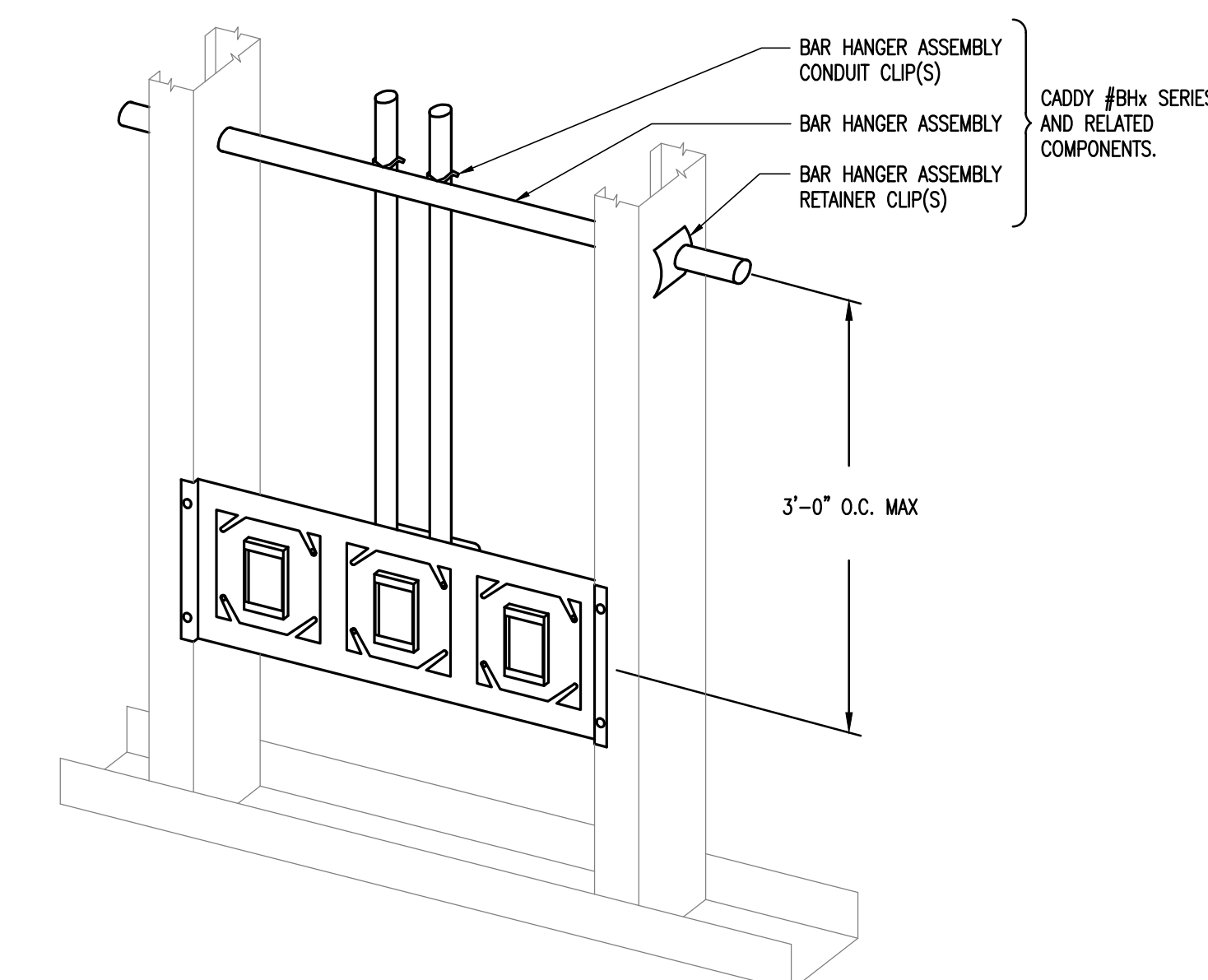
ARRANGEMENT A
PROVIDE WHERE STUD(S) ARRANGEMENT ALLOWS



ARRANGEMENT B
PROVIDE ONLY WHERE ARRANGEMENT 'A' IS NOT AVAILABLE DUE TO SPATIAL CONSTRAINTS



RECESSED DOWNLIGHT GYPSUM BOARD CEILING



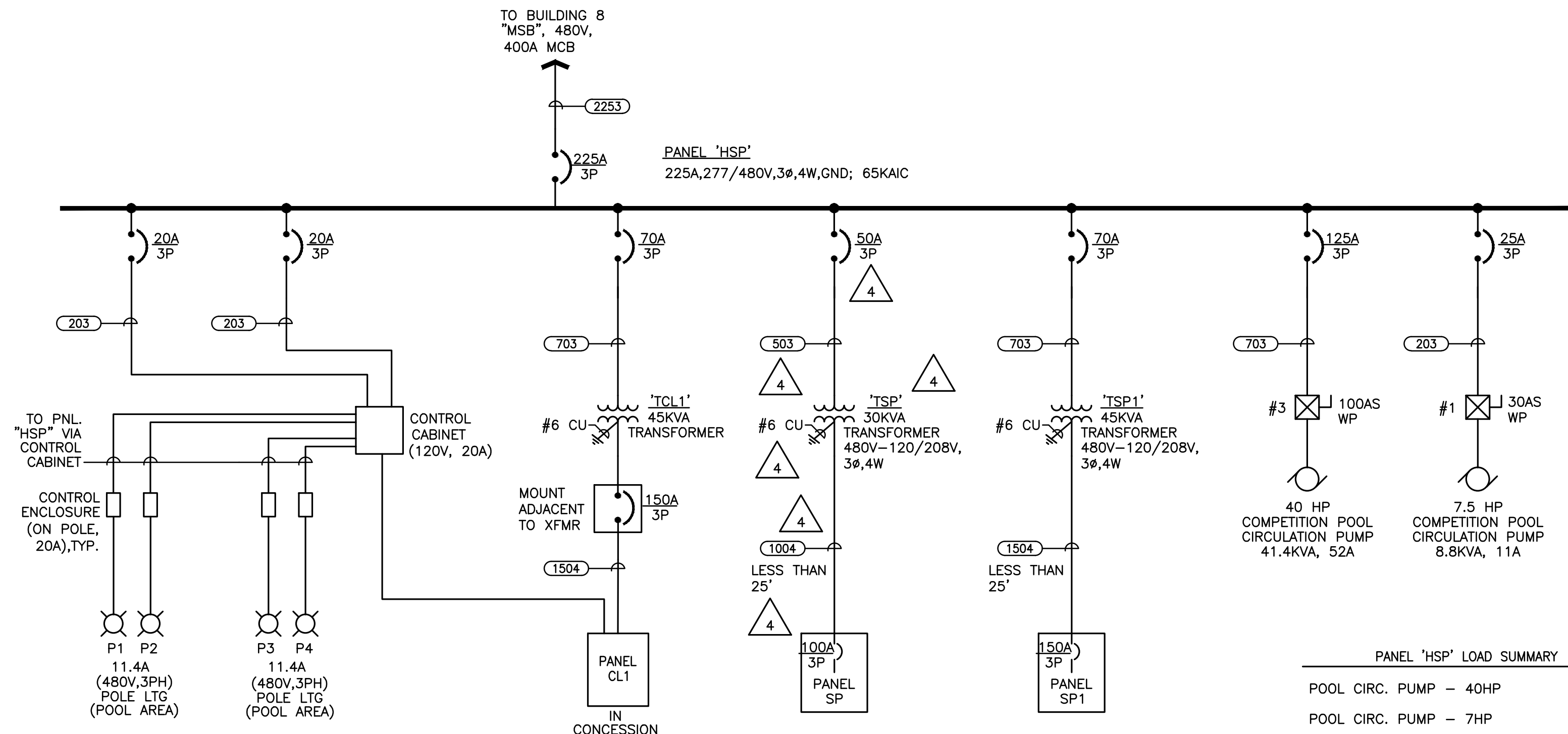
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| 1 | ISSUED FOR RECORD | 11/17/2010 |
| 2 | REVISION | |
| 3 | REVISION | |
| 4 | REVISION | |
| 5 | REVISION | |
| 6 | REVISION | |
| 7 | REVISION | |
| 8 | REVISION | |
| 9 | REVISION | |
| 10 | REVISION | |

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| Drawn by | FF/AA |
| Checked by | TS |
| Scale | AS SHOWN |
| Pool Bldg. Electrical Miscellaneous Details | |
| E10.05 | |

| LIGHTING FIXTURE SCHEDULE | | | | | | |
|--|---|--|----------|---------------------------|----------------------|--|
| LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. | | | | | | |
| TYPE: | DESCRIPTION: | MANUFACTURER AND CATALOG NO.: | VOLTAGE: | LAMP: | WATTS PER LUMINAIRE: | REMARKS: |
| F1 | EXTERIOR CEILING DOWNLIGHT FIXTURE WITH GLOSS WHITE FINISH, CLEAR TEMPERED GLASS LENS, MOLDED TRIM RING, SPECULAR CLEAR REFLECTOR, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, WITH WET LOCATION LABEL. | COOPER LIGHTING-PORTFOLIO C7-2-26-E-7280-W-3-WF-HB26 | 120 | 2-26W DTT COMPACT FLUOR. | 50 | LOCATION: POOL BUILDING- EXTERIOR CANOPY |
| F2 | 2" WIDE X 4" LONG SURFACE CEILING MOUNT, LENSED TROFFER FIXTURE WITH CLEAR PRISMATIC ACRYLIC LENS, LOW PROFILE HOUSING, ELECTRONIC BALLAST. | COOPER LIGHTING-METALUX 2GR8-332A-UNV-EB82-U | 120 | 3-F32T8/835 3500 K FLUOR. | 91 | |
| F3 | CHAIN HUNG STRIP LIGHT 4" LONG, WITH 12" WIDE WHITE REFLECTOR, ELECTRONIC BALLAST, AND WIRE GUARD. | COOPER METALUX 1AF-232-UNV-EB81-U-AYC-CHAIN/SET 48"-U-WG/IC-4 FT-U | 120 | 2-F32T8/835 3500 K FLUOR. | 53 | |
| F3E | SIMILAR TO TYPE 'F3', BUT WITH 90 MINUTE EMERGENCY BATTERY BALLAST. | COOPER METALUX 1AF-232-UNV-EB81-U-AYC-CHAIN/SET 48"-U-WG/IC-4 FT-U EMERGENCY BALLAST | 120 | 2-F32T8/835 3500 K FLUOR. | 53 | |



| PANEL "HSP" LOAD SUMMARY | |
|--------------------------|-----------------|
| POOL CIRC. PUMP - 40HP | 41.4KVA |
| POOL CIRC. PUMP - 7HP | 8.8KVA |
| PANEL "SP1" | 25.5KVA |
| PANEL "SP2" | 43.4KVA |
| PANEL "CL1" | 10.8KVA |
| | 129.9KVA |
| | 156.5A@480V, 3Ø |

2 SINGLE LINE DIAGRAM
E10.10 NOT TO SCALE

| PANEL CL1 | | LOCATION: | |
|--------------------|-------------------------|--------------------------|------|
| TYPE DESCRIPTION | LOAD | TYPE DESCRIPTION | LOAD |
| R EGMT. RM. RECS. | 540 20/1P 1 722 | L CONCESSIONS | 182 |
| R STORAGE RMS. | 750 20/1P 3 900 | L CONCESSIONS EXTERIOR | 150 |
| R REC GF-LT POLES | 1800 20/1P 5 2000 | R CONCESSIONS | 800 |
| R REC GF-LT POLES | 1800 20/1P 7 2800 | R CONCESSIONS | 800 |
| R REC GF-POOL AREA | 500 20/1P 9 1300 | R CONCESSIONS | 800 |
| SPARE | 20/1P 11 | R CONCESSIONS | 800 |
| FC-1 | 350 20/1P 13 1150 | R CONCESSIONS | 800 |
| SPARE | 20/1P 15 | R CONCESSIONS | 800 |
| SPACE | 20/1P 17 | R CONCESSIONS | 800 |
| SPACE | 19 159 | L EM POOL EGMT. RM. | 159 |
| SPACE | 21 1800 | L CONTROL CAB-MUSCO LTS. | 1800 |
| SPACE | 23 1000 | L BMS-POOL BLDG | 1000 |
| SPACE | 25 0 | SPACE | 26 |
| SPACE | 27 0 | SPACE | 28 |
| SPACE | 29 0 | SPACE | 30 |
| SPACE | 31 0 | SPACE | 32 |
| SPACE | 33 0 | SPACE | 34 |
| SPACE | 35 0 | SPACE | 36 |
| SPACE | 37 0 | SPACE | 38 |
| SPACE | 39 0 | SPACE | 40 |
| SPACE | 41 0 | SPACE | 42 |
| | 4631 4800 4330 39 40 36 | | |

| COPPER FEEDER SCHEDULE - 3 PHASE, 3 WIRE | | | | |
|--|--------------|----------|---------|------------|
| FEEDER No. | AMPERE | FEEDER | GROUND | CONDUIT |
| 153 | 15A, 3PH3W | 3-#12 | #12 | 1/2" |
| 203 | 20A, 3PH3W | 3-#12 | #12 | 1/2" |
| 303 | 30A, 3PH3W | 3-#10 | #10 | 1/2" |
| 403 | 40A, 3PH3W | 3-#8 | #10 | 3/4" |
| 503 | 50A, 3PH3W | 3-#6 | #10 | 3/4" |
| 603 | 60A, 3PH3W | 3-#6 | #10 | 1" |
| 703 | 70A, 3PH3W | 3-#4 | #8 | 1" |
| 803 | 80A, 3PH3W | 3-#4 | #8 | 1" |
| 1003 | 100A, 3PH3W | 3-#2 | #8 | 1 1/4" |
| 1253 | 125A, 3PH3W | 3-#1 | #6 | 1 1/2" |
| 1503 | 150A, 3PH3W | 3-#1/0 | #6 | 1 1/2" |
| 1753 | 175A, 3PH3W | 3-#2/0 | #6 | 2" |
| 2003 | 200A, 3PH3W | 3-#3/0 | #6 | 2" |
| 2253 | 225A, 3PH3W | 3-#4/0 | #4 | 2 1/2" |
| 2503 | 250A, 3PH3W | 3-#250K | #4 | 2 1/2" |
| 3003 | 300A, 3PH3W | 3-#350K | #4 | 2 1/2" |
| 3503 | 350A, 3PH3W | 3-#400K | #2 | 3" |
| 4003 | 400A, 3PH3W | 3-#500K | #2 | 3" |
| 5003 | 500A, 3PH3W | 6-#250K | 2-#2 | (2) 2 1/2" |
| 6003 | 600A, 3PH3W | 6-#350K | 2-#1 | (2) 3" |
| 8003 | 800A, 3PH3W | 6-#500K | 2-#1/0 | (2) 3" |
| 10003 | 1000A, 3PH3W | 9-#400K | 3-#2/0 | (3) 3" |
| 12003 | 1200A, 3PH3W | 9-#600K | 3-#3/0 | (3) 4" |
| 16003 | 1600A, 3PH3W | 12-#600K | 4-#4/0 | (4) 4" |
| 20003 | 2000A, 3PH3W | 15-#600K | 5-#250K | (5) 4" |

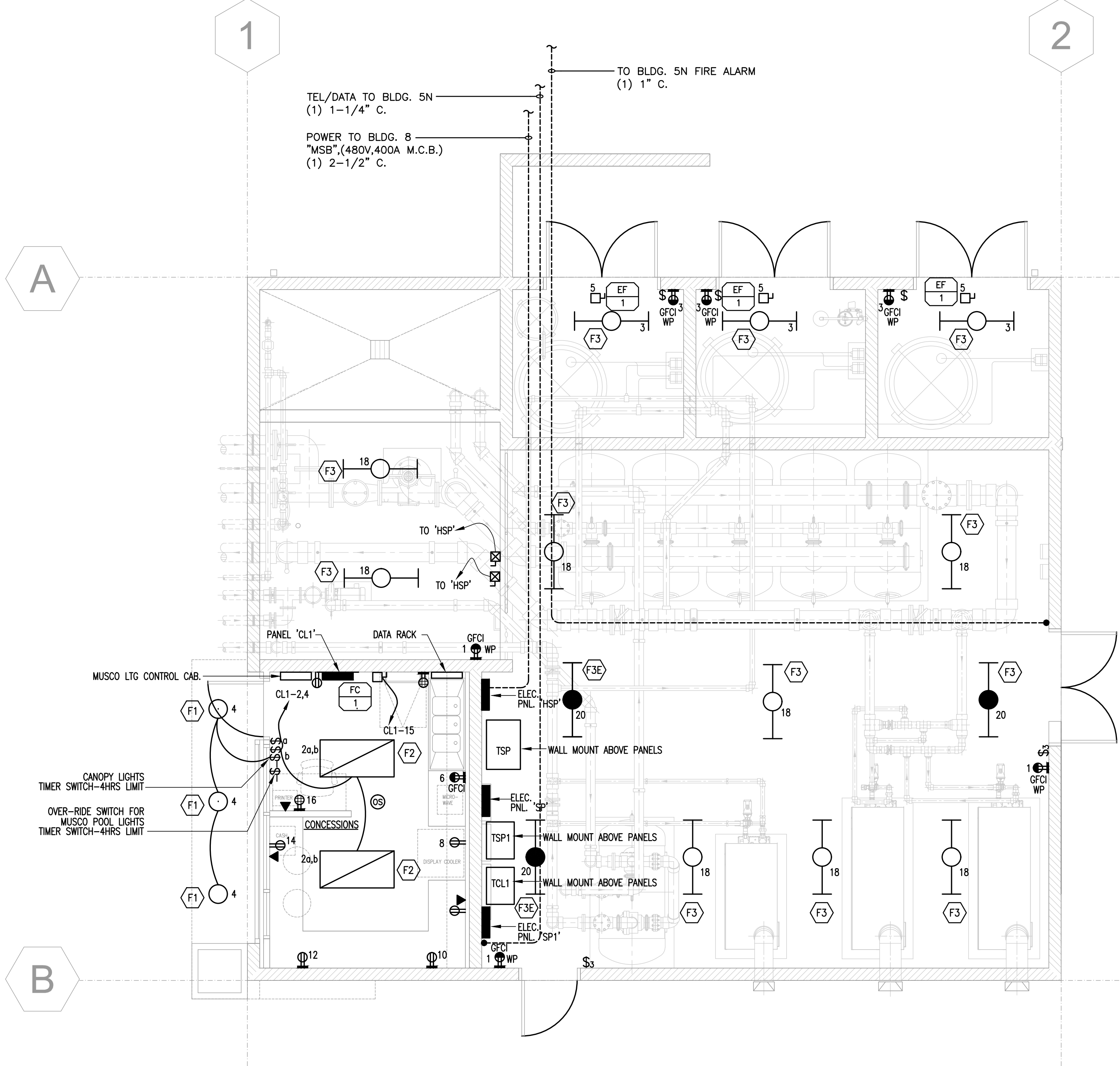
| COPPER FEEDER SCHEDULE - 3 PHASE, 4 WIRE | | | | |
|--|--------------|----------|---------|------------|
| FEEDER No. | AMPERE | FEEDER | GROUND | CONDUIT |
| 154 | 15A, 3PH4W | 4-#12 | #12 | 1/2" |
| 204 | 20A, 3PH4W | 4-#12 | #12 | 1/2" |
| 304 | 30A, 3PH4W | 4-#10 | #10 | 1/2" |
| 404 | 40A, 3PH4W | 4-#8 | #10 | 3/4" |
| 504 | 50A, 3PH4W | 4-#6 | #10 | 1" |
| 604 | 60A, 3PH4W | 4-#6 | #10 | 1" |
| 704 | 70A, 3PH4W | 4-#4 | #8 | 1 1/4" |
| 804 | 80A, 3PH4W | 4-#4 | #8 | 1 1/4" |
| 1004 | 100A, 3PH4W | 4-#2 | #8 | 1 1/4" |
| 1254 | 125A, 3PH4W | 4-#1 | #6 | 1 1/2" |
| 1504 | 150A, 3PH4W | 4-#1/0 | #6 | 1 1/2" |
| 1754 | 175A, 3PH4W | 4-#2/0 | #6 | 2" |
| 2004 | 200A, 3PH4W | 4-#3/0 | #6 | 2" |
| 2254 | 225A, 3PH4W | 4-#4/0 | #4 | 2 1/2" |
| 2504 | 250A, 3PH4W | 4-#250K | #4 | 2 1/2" |
| 3004 | 300A, 3PH4W | 4-#350K | #4 | 3" |
| 3504 | 350A, 3PH4W | 4-#400K | #2 | 3" |
| 4004 | 400A, 3PH4W | 4-#500K | #3 | 3 1/2" |
| 5004 | 500A, 3PH4W | 8-#250K | 2-#2 | (2) 2 1/2" |
| 6004 | 600A, 3PH4W | 8-#350K | 2-#1 | (2) 3" |
| 8004 | 800A, 3PH4W | 8-#500K | 2-#1/0 | (2) 3" |
| 10004 | 1000A, 3PH4W | 12-#400K | 3-#2/0 | (3) 3" |
| 12004 | 1200A, 3PH4W | 12-#600K | 3-#3/0 | (3) 4" |
| 16004 | 1600A, 3PH4W | 16-#600K | 4-#4/0 | (4) 4" |
| 20004 | 2000A, 3PH4W | 20-#600K | 5-#250K | (5) 4" |

Notes:

GENERAL NOTES

A. ALL LIGHTING AND POWER CIRCUITRY SHOWN ON PLAN IS CONNECTED TO PANEL "CL1", UNLESS OTHERWISE NOTED.

B. CONTROL OF MUSCO LIGHTING VIA CONTROL CABINET IN THE POOL HOUSE SHALL INTERPHASE WITH THE "BMS" LOCATED AT BLDG. 7.



1 LIGHTING, POWER & DATA PLAN
E10.10 SCALE: 1/4"=1'-0"

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11/17/2010