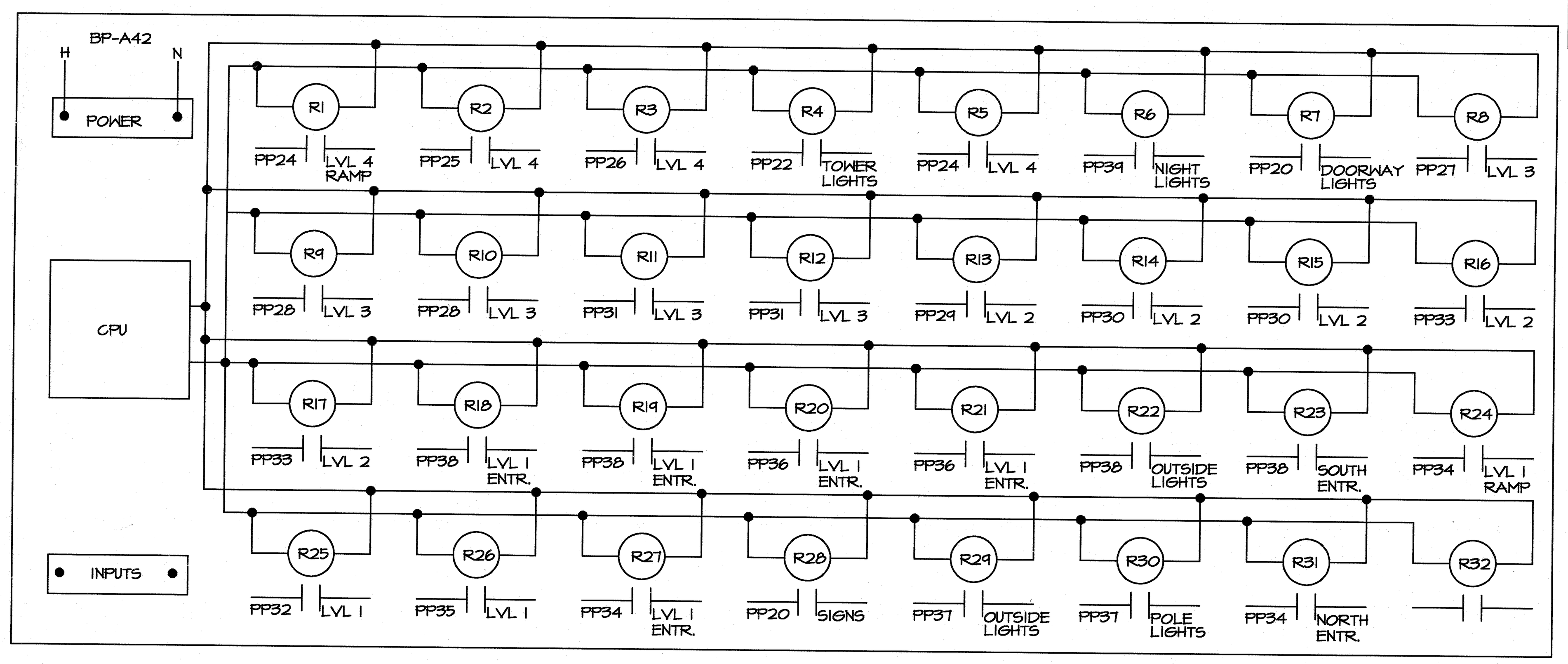
# GENERAL NOTES

1. WORK SHALL COMPLY WITH THE LATEST EDITION OF N.E.C., LOCAL AND STATE CODES, ORDINANCES, AND REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, INCLUDING ALL COSTS ASSESSED BY THE ELECTRIC UTILITY COMPANY, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
3. COORDINATE ALL NEW ELECTRICAL UNDERGROUND WORK WITH EXISTING AND NEW UTILITIES BEFORE INSTALLATION. FORTY-EIGHT HOURS BEFORE ANY EXCAVATING WORK IS DONE, RELATIVE TO ELECTRICAL WORK, CONTACT "MISS DIG" (TOLL FREE), AT (800)482-7171.
4. ALL ELECTRICAL MATERIALS SHALL BE NEW AND BEAR THE "UL" LABEL OR LISTING.
5. ALL BRANCH CIRCUIT WIRE SHALL BE COPPER, MINIMUM SIZE #12 A.W.G., INSTALLED IN CONDUIT, MINIMUM SIZE 1/2", AND SHALL BE TYPE "THWN" UNLESS OTHERWISE NOTED ON PLANS.
6. ALL CONDUIT BELOW GRADE SHALL BE PVC SCHEDULE 40. ALL OTHER CONDUIT SHALL BE ELECTRICAL METALLIC TUBING, MINIMUM 1/2" SIZE.
7. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE BEFORE HE SUBMITS HIS BID TO FAMILIARIZE HIMSELF WITH ACTUAL JOB CONDITIONS AND TO CHECK FOR ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF OTHER TRADES, AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE CODES, LAWS, ORDINANCES, AND REGULATIONS.
8. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ALL LOCAL CODES.
9. ALL DISCONNECT SWITCHES SHALL BE 250V., OR 600V HEAVY DUTY TYPE; NEMA 1, FOR INDOOR USE, AND NEMA 3R FOR OUTDOOR USE. G.E., WESTINGHOUSE, OR SQUARE D.
10. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER, AND SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND /OR REPLACE DEFECTIVE ITEMS, AT NO EXPENSE TO THE OWNER.
11. ANY CUTTING AND/OR PATCHING, THAT MAY BE REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL SYSTEM, SHALL BE DONE AND/OR REPAIRED BY THE ELECTRICAL CONTRACTOR. NO CUTTING OF THE BUILDING STRUCTURAL SYSTEM SHALL BE DONE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER BEING PREVIOUSLY OBTAINED.

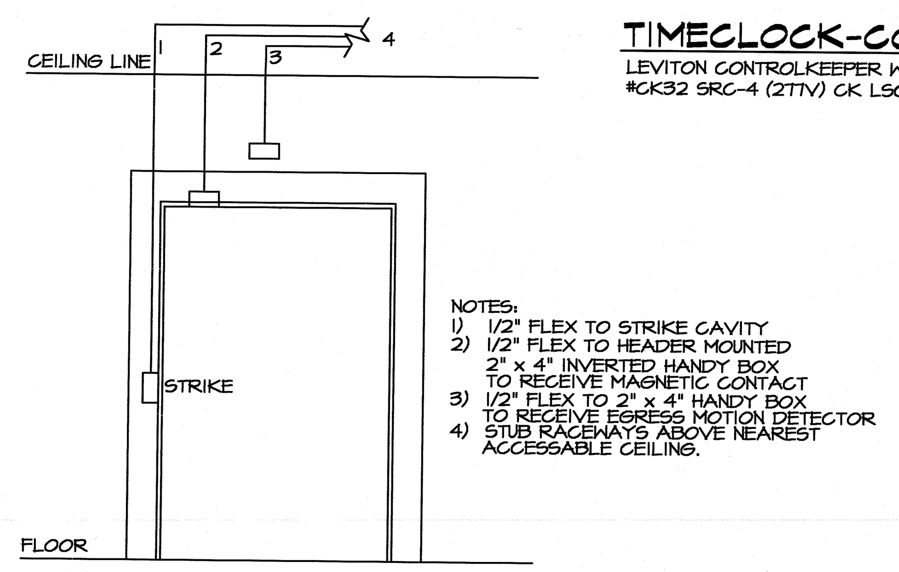
## ELECTRICAL SYMBOL LEGEND

| Symbol | Description |
|---|---|
| ▢ | LIGHTING FIXTURES |
| | BACK MOUNTED EXIT SIGN |
| | END MOUNTED EXIT SIGN |
| | EXIT SIGN / EGRESS LIGHTING UNIT |
| | EMERGENCY EGRESS LIGHTING UNIT |
| $ | 1 POLE SNAP SWITCH - 48" AFF |
| $3 | 3-WAY SNAP SWITCH - 48" AFF |
| $K | KEY OPERATED SWITCH - 48" AFF |
| ▼ | TELEPHONE OUTLET - 18" AFF |
| ▽ | DATA OUTLET - 18" AFF |
| GFI | GROUND FAULT PROTECTED |
| WP | WEATHER PROOF |
| AC | ABOVE COUNTER BACK SPLASH |
| AFF | ABOVE FINISHED FLOOR |
| NL | NIGHT LIGHT |
| Ⓙ | FLUSH JUNCTION BOX |
| Ⓢ | SMOKE DETECTOR |
| | DUPLEX 15 AMP, 125 VOLT RECEPT - 18" AFF |
| ◎ | EQUIPMENT CONNECTION |
| | MOTOR CONNECTION-SINGLE PHASE |
| | MOTOR CONNECTION-THREE PHASE |
| | SAFETY SWITCH-SINGLE PHASE |
| | SAFETY SWITCH-THREE PHASE |
| | COMB. STARTER / DISC-SINGLE PHASE |
| | COMB. STARTER / DISC-THREE PHASE |
| K | KNOX BOX - PURCHASED BY EC THROUGH THE CITY FIRE DEPARTMENT |



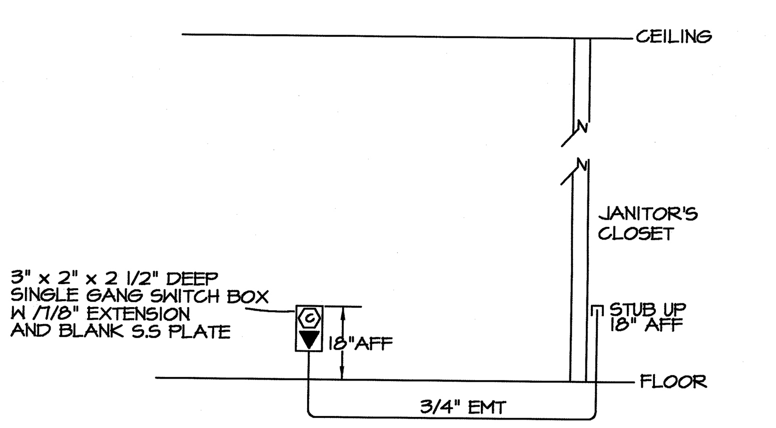

## TIMECLOCK-CONTROLKEEPER
NTS

LEVITON CONTROLKEEPER W/FLUSH MOUNT KIT
#CK32 SRC-4 (277V) CK LSC




NOTES:
1) 1/2" FLEX TO STRIKE CAVITY
2) 1/2" FLEX TO HEADER MOUNTED 2" x 4" INVERTED HANDY BOX TO RECEIVE MAGNETIC CONTACT
3) 1/2" FLEX TO 2" x 4" HANDY BOX TO RECEIVE EGRESS MOTION DETECTOR
4) STUB RACEWAYS ABOVE NEAREST ACCESSABLE CEILING.

## RACEWAYS FOR DOOR SECURITY SYSTEM
NTS




## PHONE / DATA OUTLET DETAIL
NTS

## LIGHT FIXTURE SCHEDULE

| TAG | MOUNTING | MANUFACTURER | LAMPS | INPUT |
|---|---|---|---|---|
| A | SURFACE CEILING | METALUX #AVT-232DR-120-TU-B232I120RH-O DEGREE<br>COLUMBIA #4T54-232-EB8-120-COLD WEATHER<br>LITHONIA #LB-232-120-1/36EB-CW | (2) 32W T8 | 65W |
| B | RECESSED CEILING | METALUX #2GC8XF-232A1W/156-120-TU-B232I120RH-O DEGREE<br>COLUMBIA #4P524-232G-F5A12-EB8-120-COLD WEATHER<br>LITHONIA #2GT8-232-A12125-120-1/36EB-CW | (2) 32W T8 | 65W |
| C | WALL MOUNT | LUMARK #MHWL-100-MT-LL-FC/WL<br>SPAULDING #MRK-M100-MT-DBZ<br>LITHONIA #TWAC100M-TB-DDB-LPI | (1) 100W MH | 120W |
| D | WALL MOUNT | LUMARK #HPWL-100-MT-LL-FC/WL<br>SPAULDING #MRK-S100-MT-DBZ<br>LITHONIA #TWAC100S-TB-DDB-LPI | (1) 100W HPS | 120W |
| E | WALL MOUNT | LUMARK #HPWL-150-MT-LL-FC/WL<br>SPAULDING #MRK-S150-MT-DBZ<br>LITHONIA #TWP150S-TB-DDB-LPI | (1) 150W HPS | 175W |
| F | WALL MOUNT | FAIL-SAFE# FPS-232-277-TU-B232I277RH-O DEGREE-EBP<br>COLUMBIA #4T54-232-EB8-277-DMR-EL-COLD WEATHER<br>LITHONIA #W232-277-GEB-EL14-CW | (2) 32W T8 | 65W |
| G | SURFACE CEILING | METALUX #W232A-120-EB81<br>COLUMBIA #WC4-232-EB8-120<br>LITHONIA #LB232-120-GEB | (2) 32W T8 | 65W |
| H | WALL MOUNT | LUMARK #HPWL-150-MT-LL-FC/WL<br>SPAULDING #MRK-S150-MT-DBZ<br>FC LIGHTING #FCC817-277-100HPS-M-BK | (1) 150W HPS | 175W |
| J | BOLLARD MOUNT | ARCHITECTURAL AREA LIGHTING #TRD-DC-50HPS (COLOR AND TEXTURE TBD) | (1) 50W HPS | 75W |
| K | POLE MOUNT | STERNBERG #1910/5/RLM18/5800DRT-RLM/12A.G./100HPS/MULTI/RE3 OR 56/PARK GREEN | (1) 100W HPS | 125W |
| K2 | POLE MOUNT | STERNBERG #2-1910/5/RLM18/5800DRT-RLM/12A.G./100HPS/MULTI/RE3 OR 56/PARK GREEN | (1) 100W HPS | 125W |
| L | POLE MOUNT | MCGRAW-EDISON #VXM-150HPS-MT-3-F-BZ-MA1052BZ-LL, POLE #T3145-003<br>KIM LIGHTING #5A/5AR3/150HPS277/DB-P W/LAMP, POLE #PRA10-34125/5B/DB-P/HB-Y1<br>LITHONIA #KAD150S-R4-277-SPD04-DDB-LPI, POLE #55AH104C-DM19DDB | (1) 150W HPS | 175W |
| M | SOFFIT MOUNT | HALO #M7007-6205-1700BA<br>PRESCOLITE #SBX50-120/277-TL87<br>LITHONIA #LP8H-50S-277-8B3 | (1) 50W HPS | 75W |
| N | WALL MOUNT | METALUX #BC-125-120-EB81<br>COLUMBIA #W3-125-EB8-120<br>LITHONIA #WC125-A12-120-GEB | (1) 25W T8 | 30W |
| P | WALL MOUNT | KEYLESS PORCELAIN W/GUARD | (1) 100W A19 | 100W |
| X1 | WALL MOUNT | ISOLITE #2040-01R-20<br>DUAL-LITE #LN4XRWE1-120/277<br>LITHONIA #LV5W-1R-120/277-ELN-CW | INCLUDED | 15W |
| X2 | WALL MOUNT | SURE-LITE #UMB-17219-TDM-TH-120/277<br>DUAL-LITE #12A5-250-BX-1-WB-6<br>LITHONIA #ELT50-R01/ELA-W-T-MH-N1812 | INCLUDED | 30W |
| P1000 | PENDANT MOUNT | MCGRAW-EDISON #PSL-175MH-MT-WH-LL-LTS(1)<br>KIM LIGHTING #PGL3/175MH277/LM(1) W/LAMP<br>LITHONIA #PGR175-TB-DN W/LAMP | (1) 175W MH | 200W |
| P0010 | PENDANT MOUNT | MCGRAW-EDISON #PSL-175MH-MT-WH-LL-LTS(1)<br>KIM LIGHTING #PGL3/175MH277/LM(1) W/LAMP<br>LITHONIA #PGR175-TB-DN W/LAMP | (1) 175W MH | 200W |
| P0011 | PENDANT MOUNT | MCGRAW-EDISON #PSL-175MH-MT-WH-LL-LTS(2)<br>KIM LIGHTING #PGL3/175MH277/LM(2) W/LAMP<br>LITHONIA #PGR175-TB-DN W/LAMP | (1) 175W MH | 200W |
| P0110 | PENDANT MOUNT | MCGRAW-EDISON #PSL-175MH-MT-WH-LL-LTS(2)<br>KIM LIGHTING #PGL3/175MH277/LM(2) W/LAMP<br>LITHONIA #PGR175-TB-DN W/LAMP | (1) 175W MH | 200W |
| P1100 | PENDANT MOUNT | MCGRAW-EDISON #PSL-175MH-MT-WH-LL-LTS(2)<br>KIM LIGHTING #PGL3/175MH277/LM(2) W/LAMP<br>LITHONIA #PGR175-TB-DN W/LAMP | (1) 175W MH | 200W |
| P0000 | PENDANT MOUNT | MCGRAW-EDISON #PSL-175MH-MT-WH-LL<br>KIM LIGHTING #PGL3/175MH277 W/LAMP<br>LITHONIA #PGR175-TB W/LAMP | (1) 175W MH | 200W |
| S3 | HINGED POLE | MCGRAW-EDISON #VXM-400HPS-MT-3-F-BZ-MA1052BZ-LL, POLE #T3145-004<br>KIM LIGHTING #2B/AR5/400HPS277/DB-P W/LAMP, POLE #PRA12-4125/B/DB-P/HB-Y1<br>LITHONIA #2/KAD400S-R3-277-SPD04-DDB W/LAMP, POLE #55AH124C-DM28DDB | (2) 400W HPS | 455W EA |

FIXTURE 'F' REQUIRES HOT FEED TO EMERGENCY BALLAST

## PP — 400 AMPS — 480/277 VOLTS — 3 PHASE — 4 WIRES — M.B.

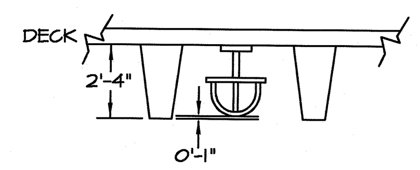
| CIR. No. | AMP/ POLES | LOAD | DESCRIPTION | A | B | C | DESCRIPTION | LOAD | AMP/ POLES | CIR. No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3P/40 | 7500 | PUMP P-4 | 15000 | | | PUMP P-5 | 7500 | 3P/40 | 2 |
| 3 | | 7500 | | | 15000 | | | 7500 | | 4 |
| 5 | | 7500 | | | | 15000 | | 7500 | | 6 |
| 7 | 3P/40 | 7500 | PUMP P-6 | 15000 | | | PUMP P-7 | 7500 | 3P/40 | 8 |
| 9 | | 7500 | | | 15000 | | | 7500 | | 10 |
| 11 | | 7500 | | | | 15000 | | 7500 | | 12 |
| 13 | 3P/10 | 14410 | ELEVATOR 1 | 28820 | | | ELEVATOR 2 | 14410 | 3P/10 | 14 |
| 15 | | 14410 | | | 28820 | | | 14410 | | 16 |
| 17 | | 14410 | | | | 28820 | | 14410 | | 18 |
| 19 | 3P/100 | 19640 | TRANSFORMER T-1 | 23400 | | | LIGHTS, SIGNS | 3760 | 1P/30 | 20 |
| 21 | | 21405 | | | 24345 | | LIGHTS | 2990 | 1P/30 | 22 |
| 23 | | 16235 | | | | 16945 | LIGHTS | 710 | 1P/30 | 24 |
| 25 | 1P/30 | 3640 | LIGHTS | 7280 | | | LIGHTS | 3640 | 1P/30 | 26 |
| 27 | 1P/30 | 2400 | LIGHTS | | 6800 | | LIGHTS | 4400 | 1P/30 | 28 |
| 29 | 1P/30 | 2400 | LIGHTS | | | 6800 | LIGHTS | 4400 | 1P/30 | 30 |
| 31 | 1P/30 | 1600 | LIGHTS | 4800 | | | LIGHTS | 3200 | 1P/30 | 32 |
| 33 | 1P/30 | 1600 | LIGHTS | | 5200 | | LIGHTS | 3600 | 1P/30 | 34 |
| 35 | 1P/30 | 1600 | LIGHTS | | | 4800 | LIGHTS | 3200 | 1P/30 | 36 |
| 37 | 1P/30 | 1875 | LIGHTS | 5300 | | | LIGHTS | 3425 | 1P/30 | 38 |
| 39 | 1P/30 | 5635 | NIGHTLIGHTS | | 5635 | | | | | 40 |
| 41 | | | | | | 350 | SNOWCHUTE LIGHTS | 350 | 1P/20 | 42 |
| | | | | 99600 | 100850 | 87715 | | | | |
| | | | | | 288165 | | | | | |

NOTES: SQ-D TYPE NF PANELBOARD, SURFACE COVER, GRD BAR KIT
288165VA / 480V x 1.732 = 346.7 AMPS @ 100% DEMAND
INSTALL BREAKER LOCK ON CIRCUIT 39

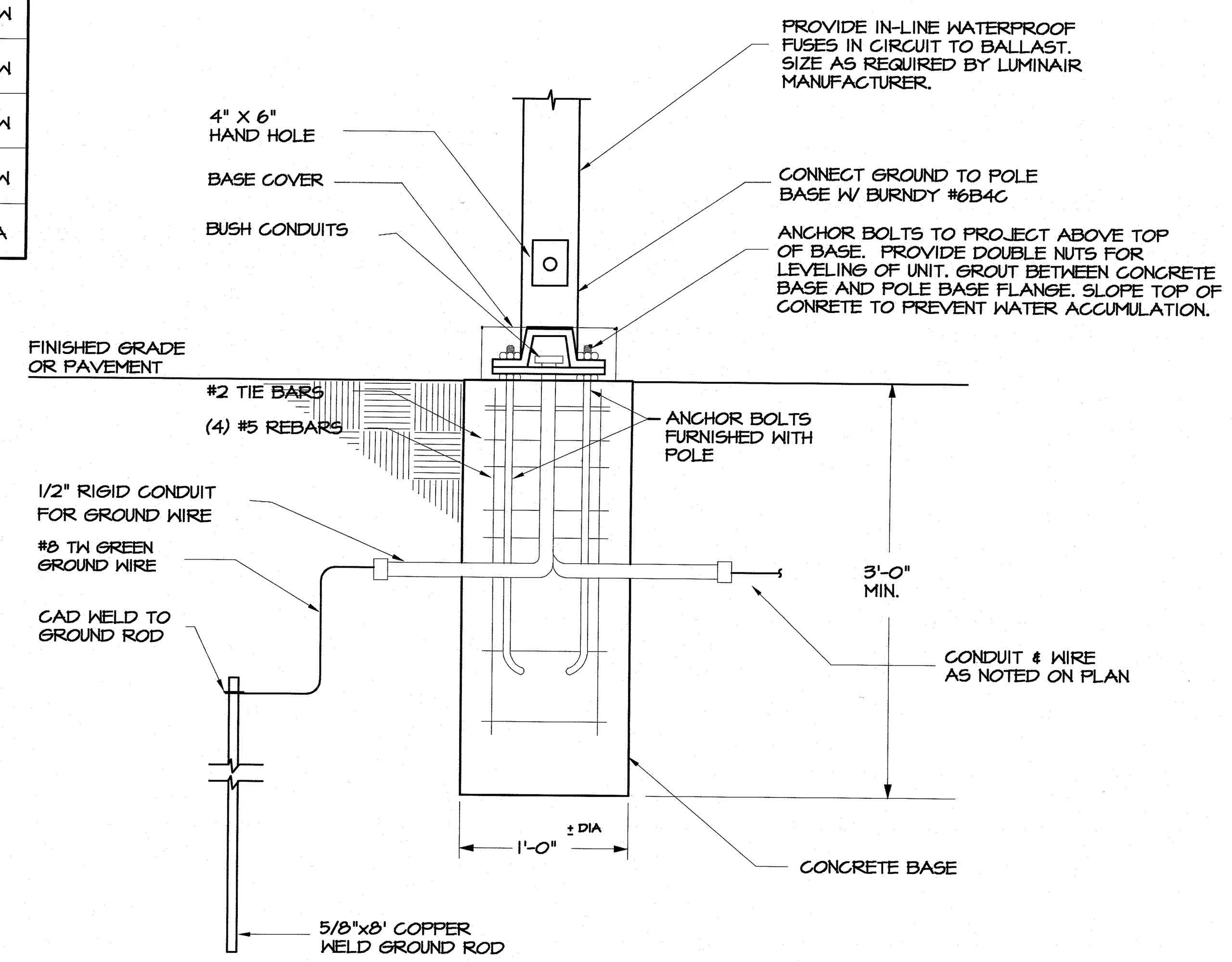
## BP-A — 225 AMPS — 120/208 VOLTS — 3 PHASE — 4 WIRES — M.B.

| CIR. No. | AMP/ POLES | LOAD | DESCRIPTION | A | B | C | DESCRIPTION | LOAD | AMP/ POLES | CIR. No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1P/20 | 900 | RECEPTS-NE TOWER | 2710 | | | RECEPTS-SW & SE TOWER | 1870 | 1P/20 | 2 |
| 3 | 1P/15 | 300 | HP-3 | | 1700 | | RETAIL CORRIDOR | 1400 | 1P/20 | 4 |
| 5 | 2P/25 | 1675 | CU-2 | | | 3350 | CU-3 | 1675 | 2P/25 | 6 |
| 7 | | 1675 | | 3350 | | | | 1675 | | 8 |
| 9 | 2P/60 | 4320 | CU-1 | | 5820 | | EH-2 | 1500 | 2P/20 | 10 |
| 11 | | 4320 | | | | 5820 | | 1500 | | 12 |
| 13 | 2P/30 | 2000 | EH-1 | 5205 | | | COMPRESSOR | 3205 | 2P/40 | 14 |
| 15 | | 2000 | | | 5205 | | | 3205 | | 16 |
| 17 | 1P/20 | 2025 | STORAGE, SHOP | | | 3525 | EWH-1 | 1500 | 1P/20 | 18 |
| 19 | 1P/20 | 1260 | RECEPTS-SHOP | 3175 | | | OFFICE | 1915 | 1P/20 | 20 |
| 21 | 1P/20 | 2260 | COILING DOOR | | 4520 | | COILING DOOR | 2260 | 1P/20 | 22 |
| 23 | 1P/20 | | | | | | | | 1P/20 | 24 |
| 25 | 1P/20 | 1720 | OUT RECEPTS, IRRIGATION | 1720 | | | | | 1P/20 | 26 |
| 27 | 1P/20 | 560 | ELEVATOR ROOM 1 | | 1120 | | ELEVATOR ROOM 2 | 560 | 1P/20 | 28 |
| 29 | 1P/20 | 300 | ELEVATOR 1 CAR LIGHTS | | | 600 | ELEVATOR 2 CAR LIGHTS | 300 | 1P/20 | 30 |
| 31 | 1P/20 | 600 | ELEVATOR 1 SMOKE DET. | 1200 | | | ELEVATOR 2 SMOKE DET. | 600 | 1P/20 | 32 |
| 33 | 1P/20 | 1520 | DOOR OPENERS | | 3040 | | DOOR OPENERS | 1520 | 1P/20 | 34 |
| 35 | 1P/20 | 720 | OFFICE | | | 1440 | OFFICE | 720 | 1P/20 | 36 |
| 37 | 1P/20 | 720 | OFFICE | 2220 | | | COUNTER | 1500 | 1P/20 | 38 |
| 39 | 1P/20 | | | | | | | | 1P/20 | 40 |
| 41 | 1P/20 | | | | | 1500 | TIMECLOCK | 1500 | 1P/20 | 42 |
| | | | | 19640 | 21405 | 16235 | | | | |
| | | | | | 57280 | | | | | |

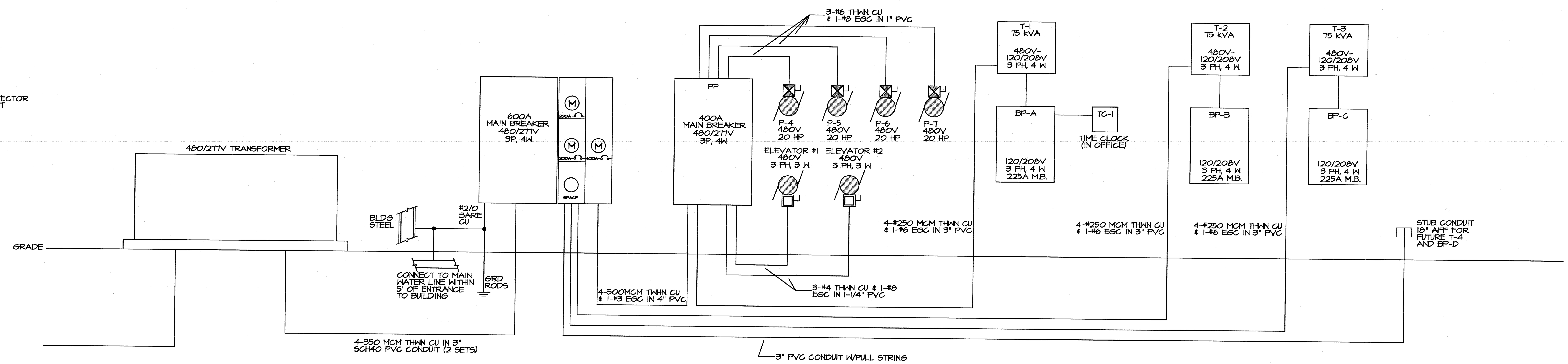
NOTES: SQ-D TYPE NQOD PANELBOARD, SURFACE COVER, GRD BAR KIT
57280VA / 208V x 1.732 = 158.9 AMPS @ 100% DEMAND




## FIXTURE ELEVATION
NTS




## BASE DETAIL - LIGHTING FIXTURE TYPE K
NTS




## RISER DIAGRAM 480/277V - 120/208V SYSTEM
NTS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THE PARK STREET PROJECT
PARKING STRUCTURE
TRAVERSE CITY, MICHIGAN


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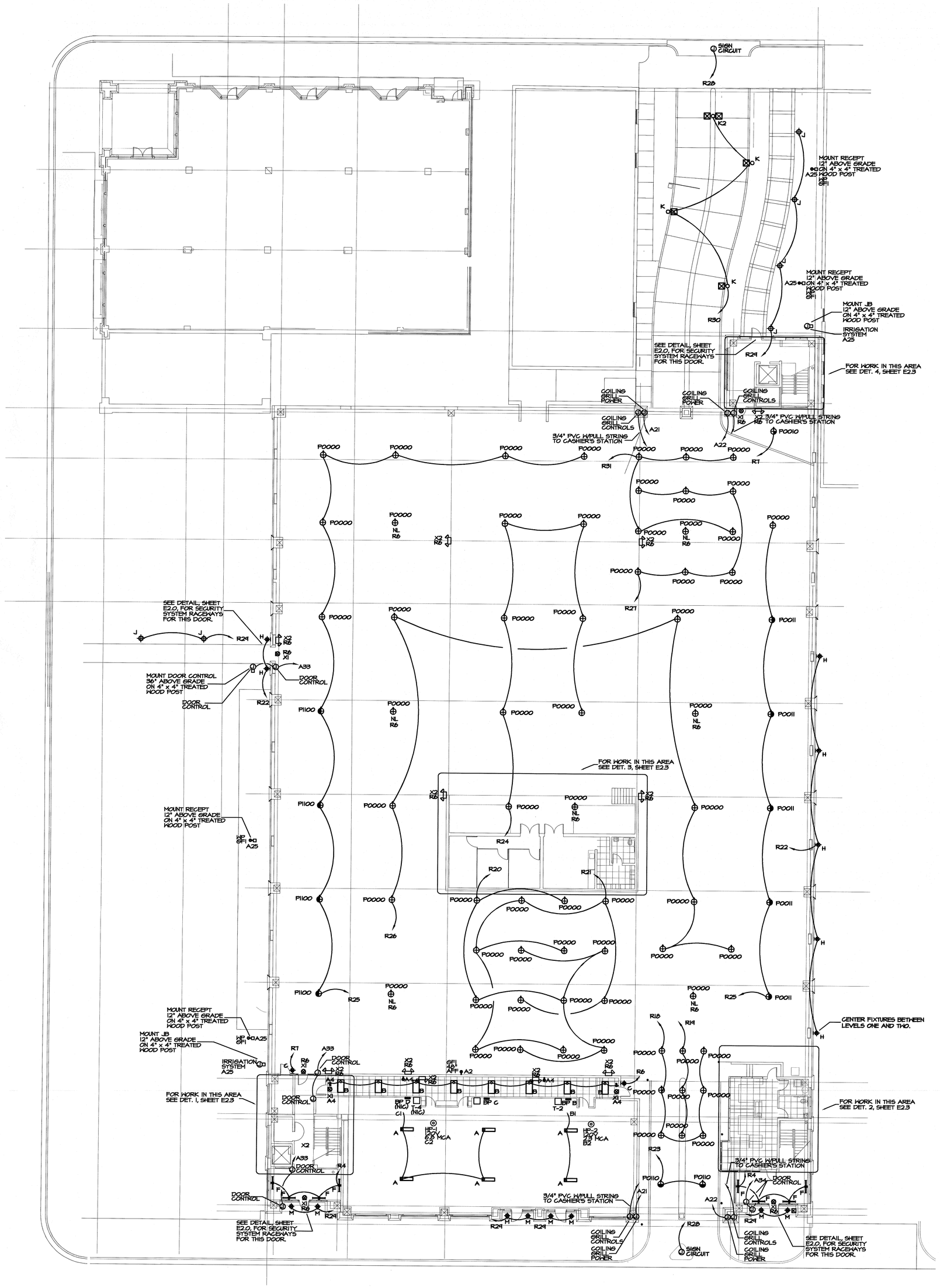
PROJECT MGR. G.A.C.
DESIGN ENG. A.D.A.
DRAWN BY A.D.A.

| ISSUED/ REV. NO. | DATE | DESCRIPTION |
|---|---|---|
| | 01-07-02 | ISSUED FOR BID |

DRAWING TITLE
ELECTRICAL SCHEDULES AND DETAILS

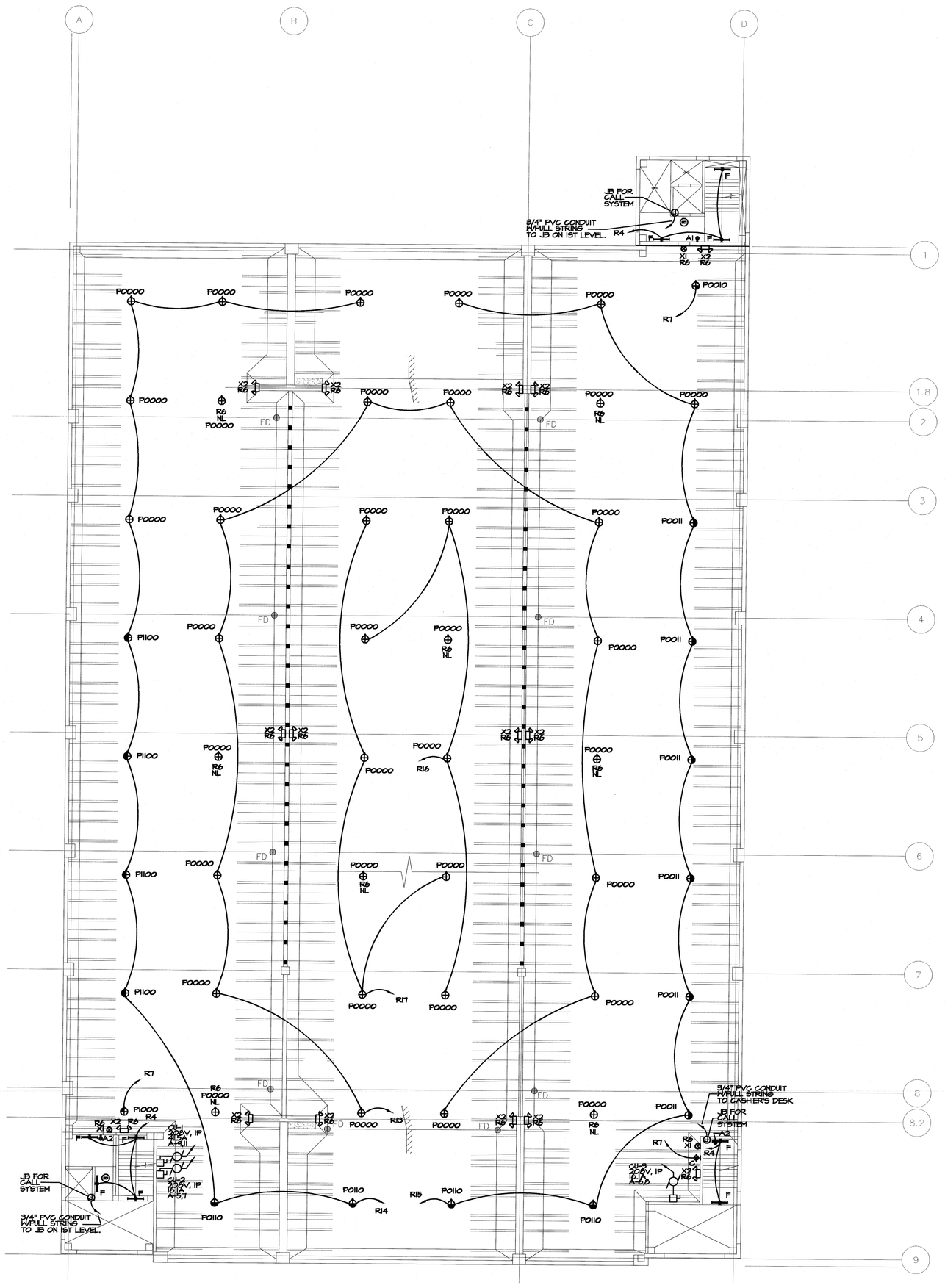
PROJECT NO. 01-1997-901
DRAWING NO. E2.0




## LEVEL 1 PLAN

1/16"=1'-0"

North




## LEVEL 2 PLAN

1/16"=1'-0"

North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DRAWN BY A.D.A.

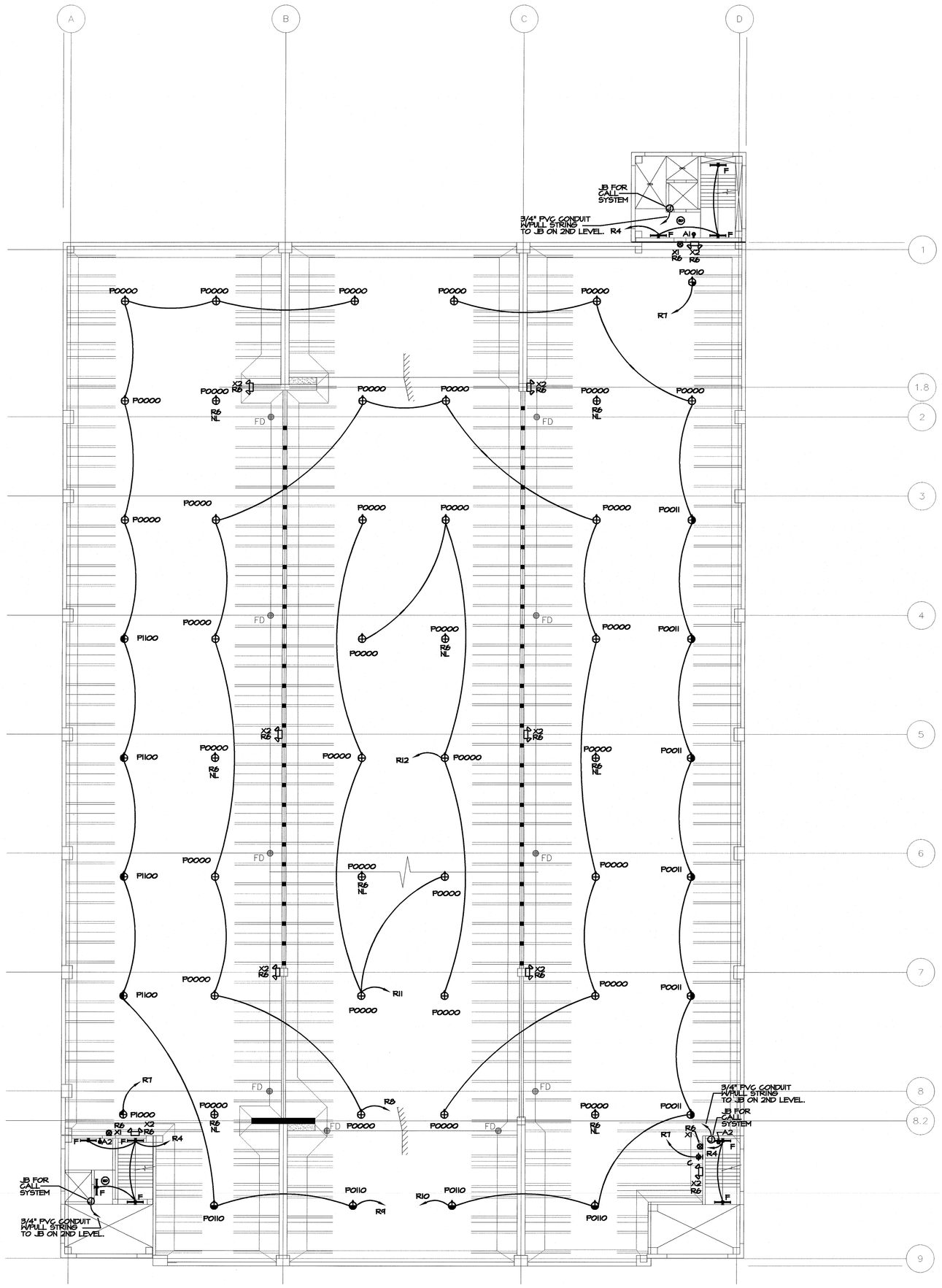
| ISSUED / REV. NO. | DATE | DESCRIPTION |
|---|---|---|
| | 01-07-02 | ISSUED FOR BID |

DRAWING TITLE

*LEVEL 1 & 2 ELECTRICAL PLAN*

PROJECT NO. 01-1997-001

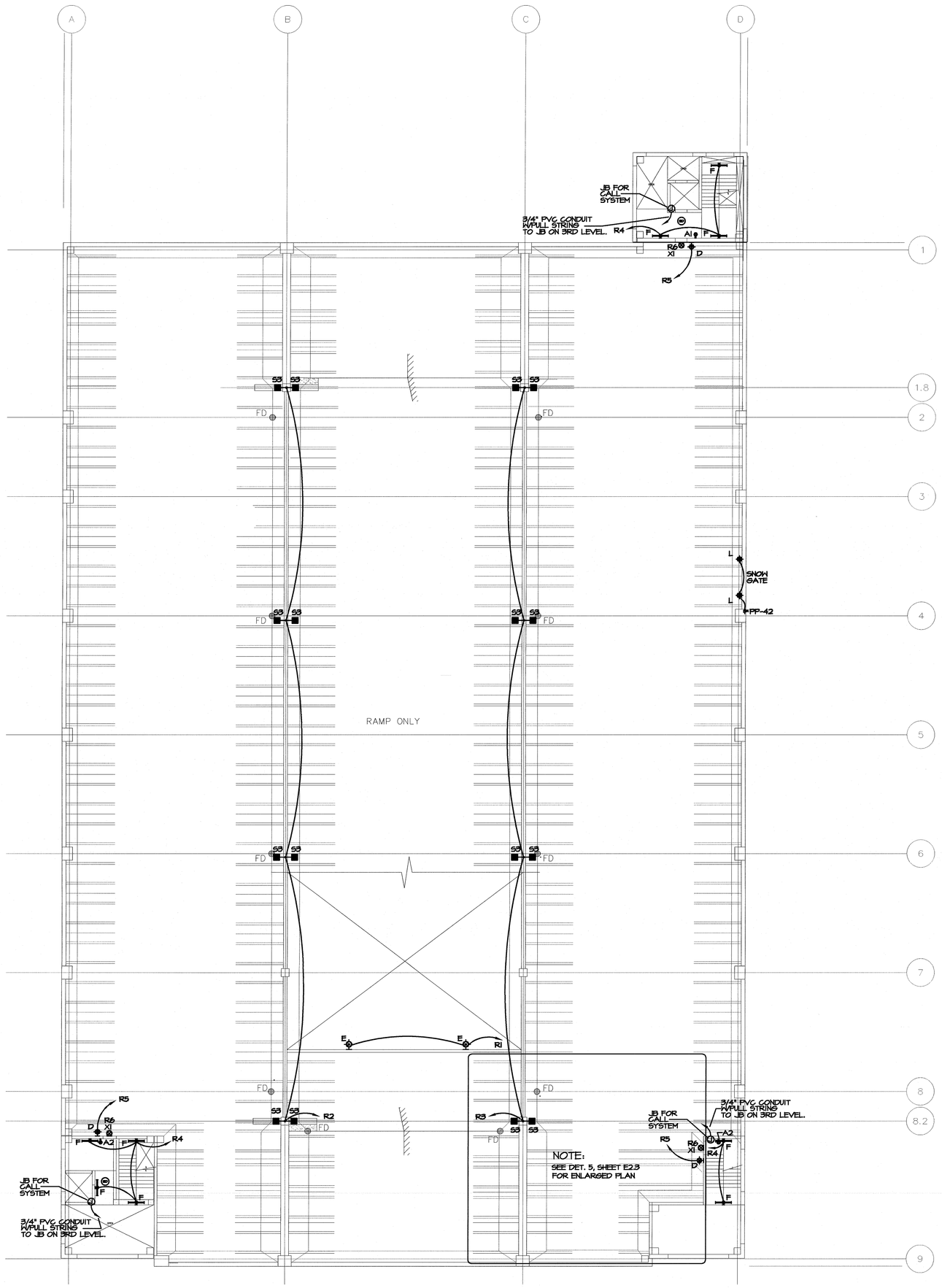
DRAWING NO. E2.1




## LEVEL 3 PLAN

1/16"=1'-0"

North




## LEVEL 4 PLAN

1/16"=1'-0"

North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*PARKING STRUCTURE*
***TRAVERSE CITY, MICHIGAN***


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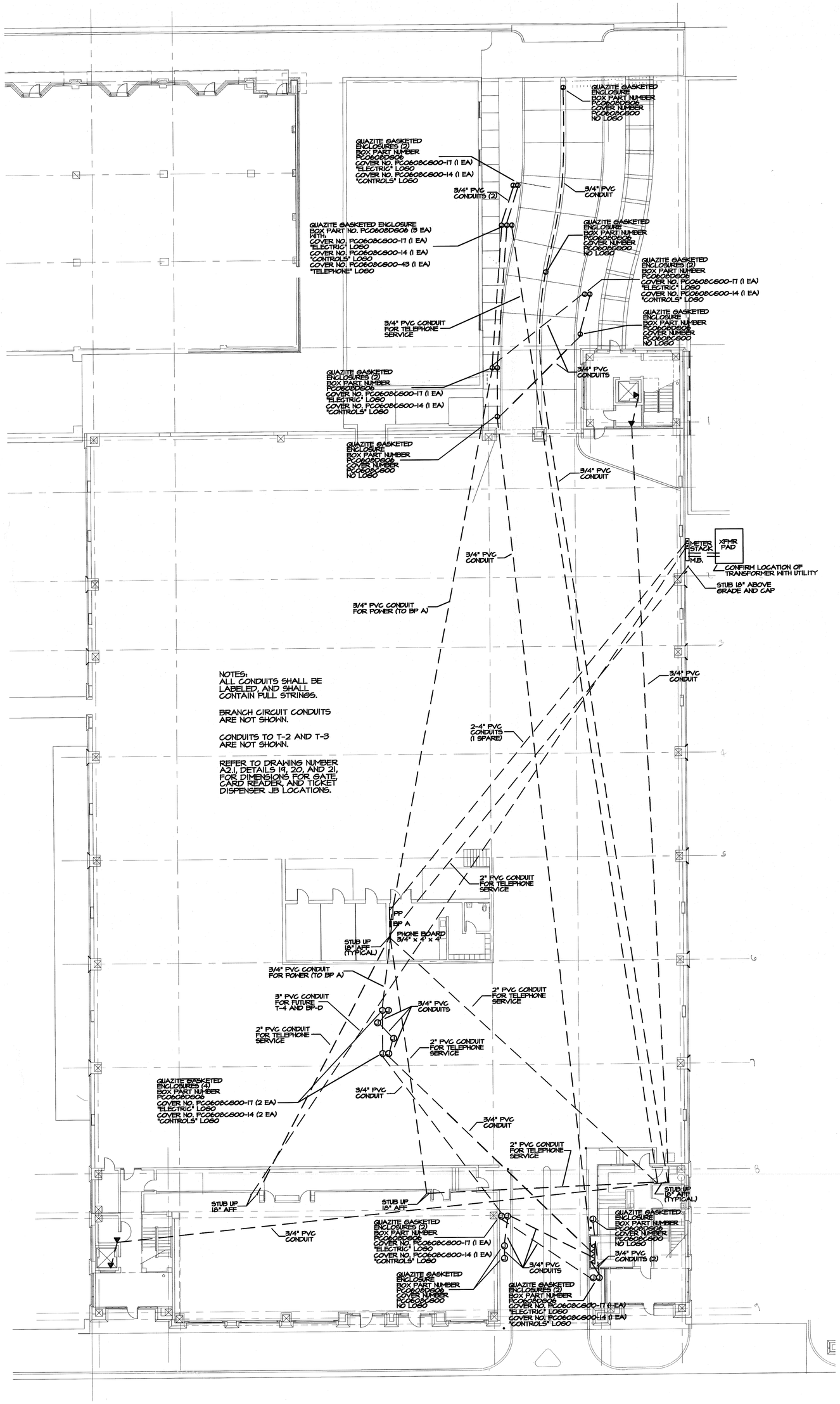
PROJECT MGR. G.A.C.
DESIGN ENG. A.D.A
DRAWN BY A.D.A

| ISSUED/ REV. NO. | DATE | DESCRIPTION |
|---|---|---|
| | 01-07-02 | ISSUED FOR BID |

DRAWING TITLE

*LEVEL 3 & 4 ELECTRICAL PLAN*

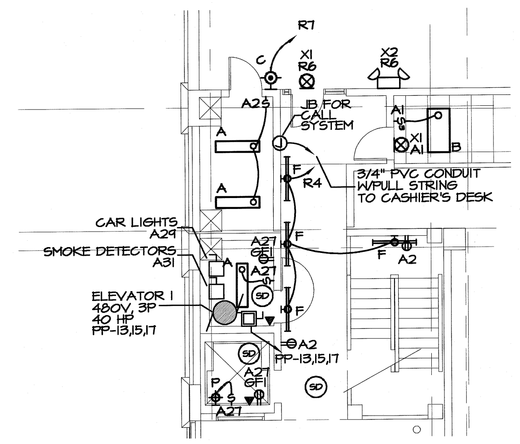
| PROJECT NO. | DRAWING NO. |
|---|---|
| 01-1997-001 | E2.2 |




## LEVEL 1-UNDERGROUND CONDUIT PLAN

1/16"=1'-0"

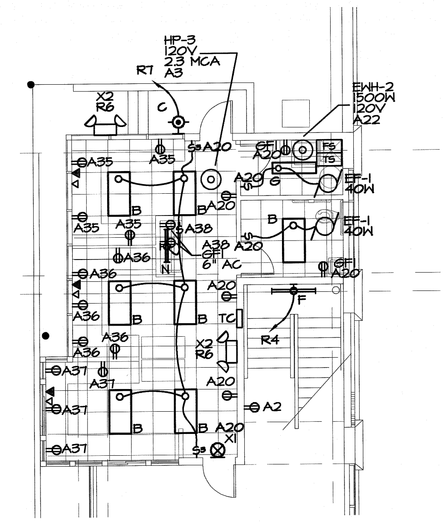
North




## 1 / E2.3 LEVEL 1 PLAN-SOUTHWEST CORNER

1/8"=1'-0"

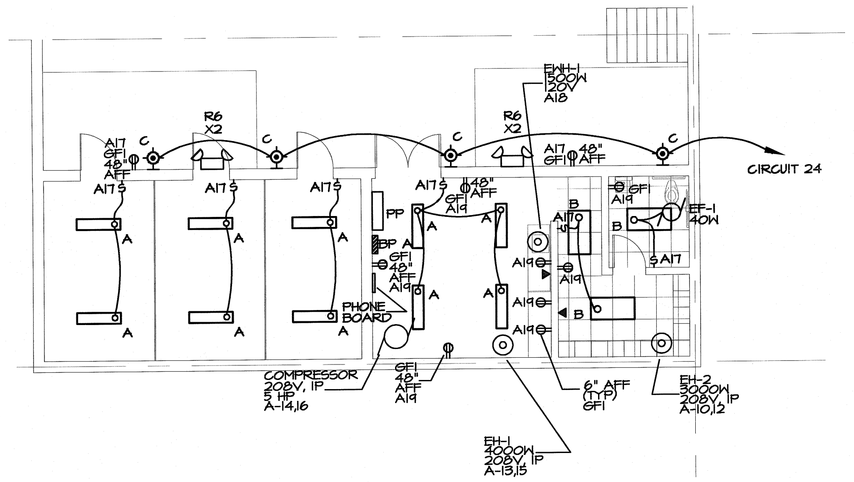
North




## 2 / E2.3 LEVEL 1 PLAN-OFFICE AREA

1/8"=1'-0"

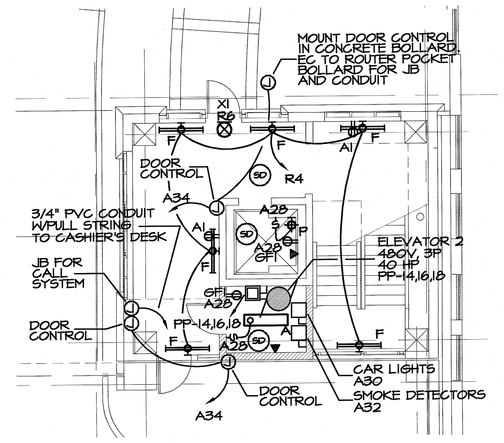
North




## 3 / E2.3 LEVEL 1 PLAN-CENTER AREA

1/8"=1'-0"

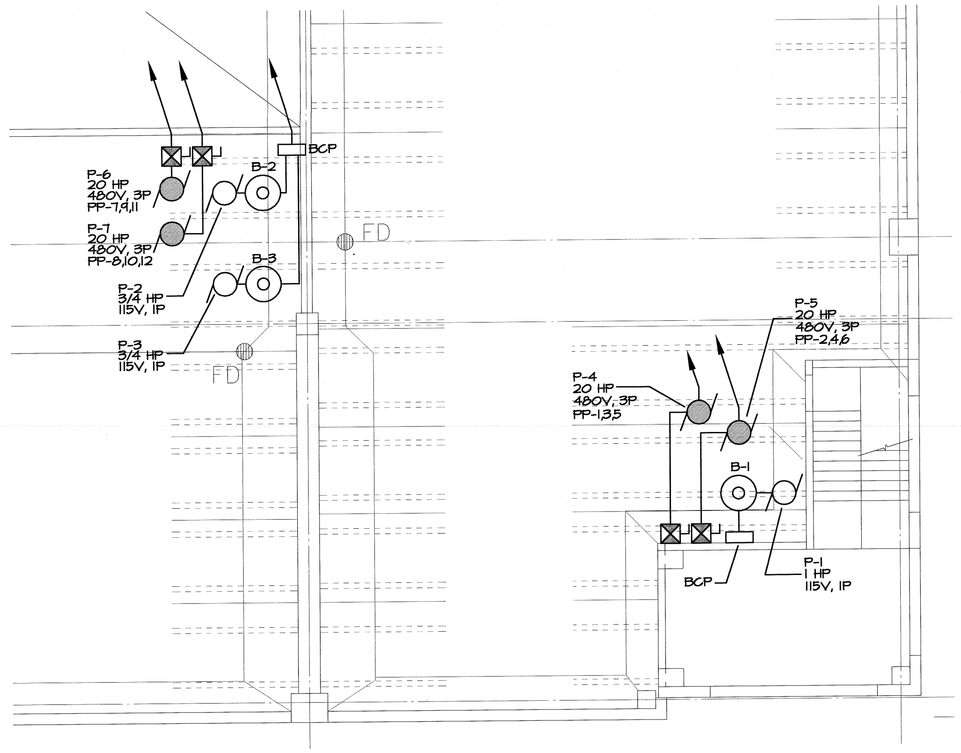
North




## 4 / E2.3 LEVEL 1 PLAN-NORTHEAST CORNER

1/8"=1'-0"

North




## 5 / E2.3 LEVEL 4 PLAN-SOUTHEAST CORNER

1/8"=1'-0"

North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*THE PARK STREET PROJECT*
*PARKING STRUCTURE*
*TRAVERSE CITY, MICHIGAN*


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PROJECT MGR. G.A.C.
DESIGN ENG. A.D.A.
DRAWN BY A.D.A.

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| | 01-07-02 | ISSUED FOR BID |

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*ELECTRICAL PLAN DETAILS*

PROJECT NO. 01-1997-001

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