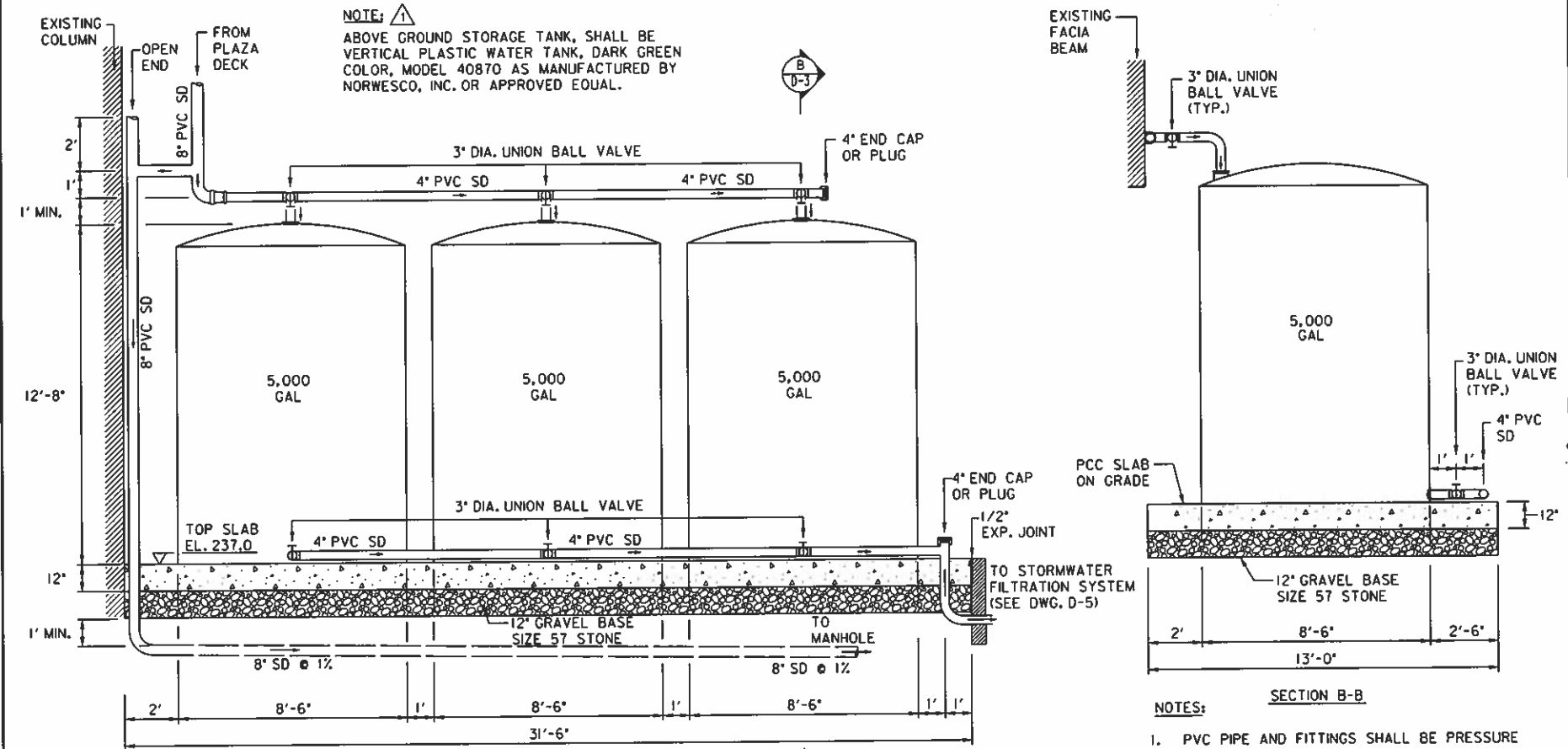
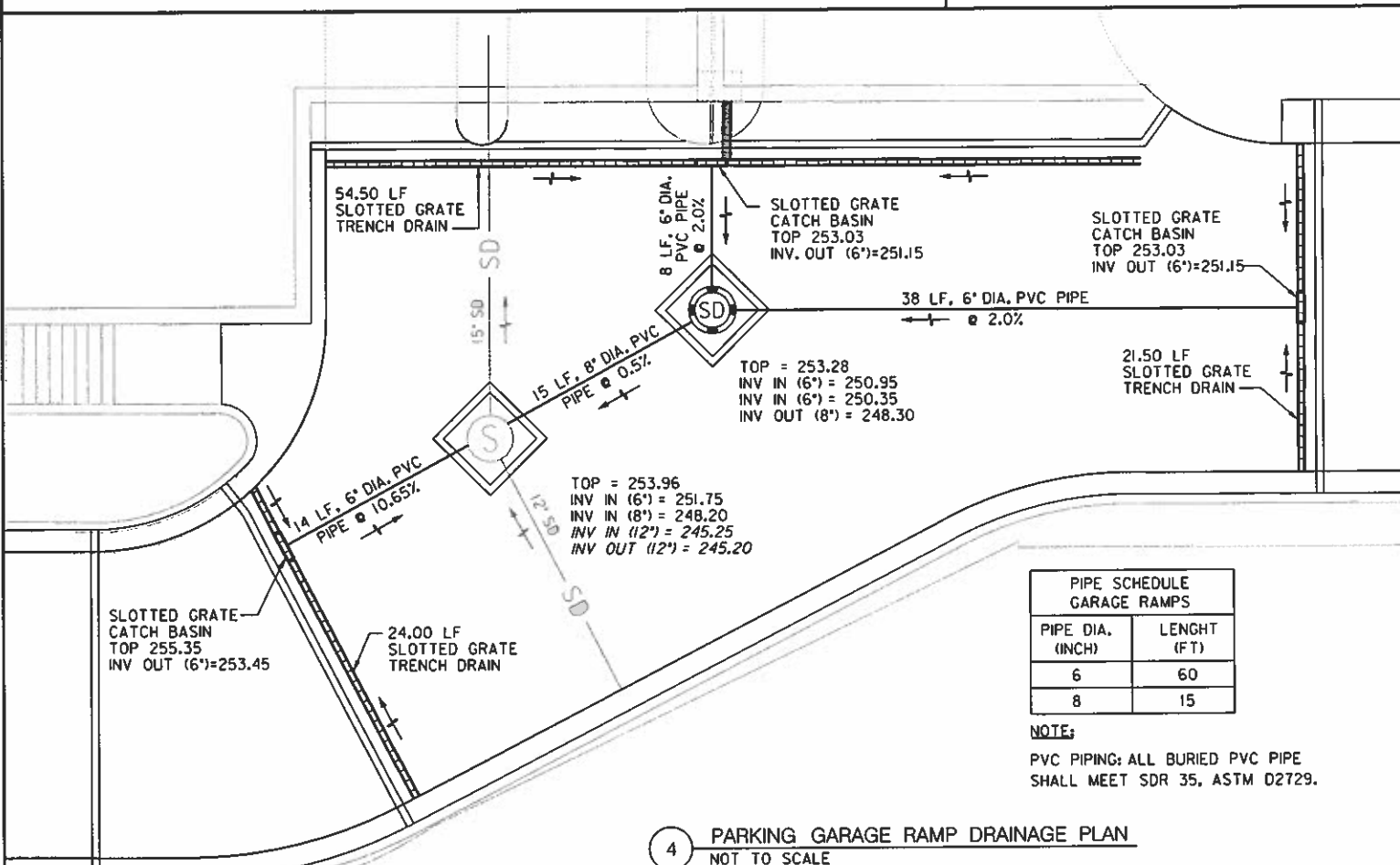


1 4" DIAMETER PERFORATED UNDERDRAIN
NOT TO SCALE

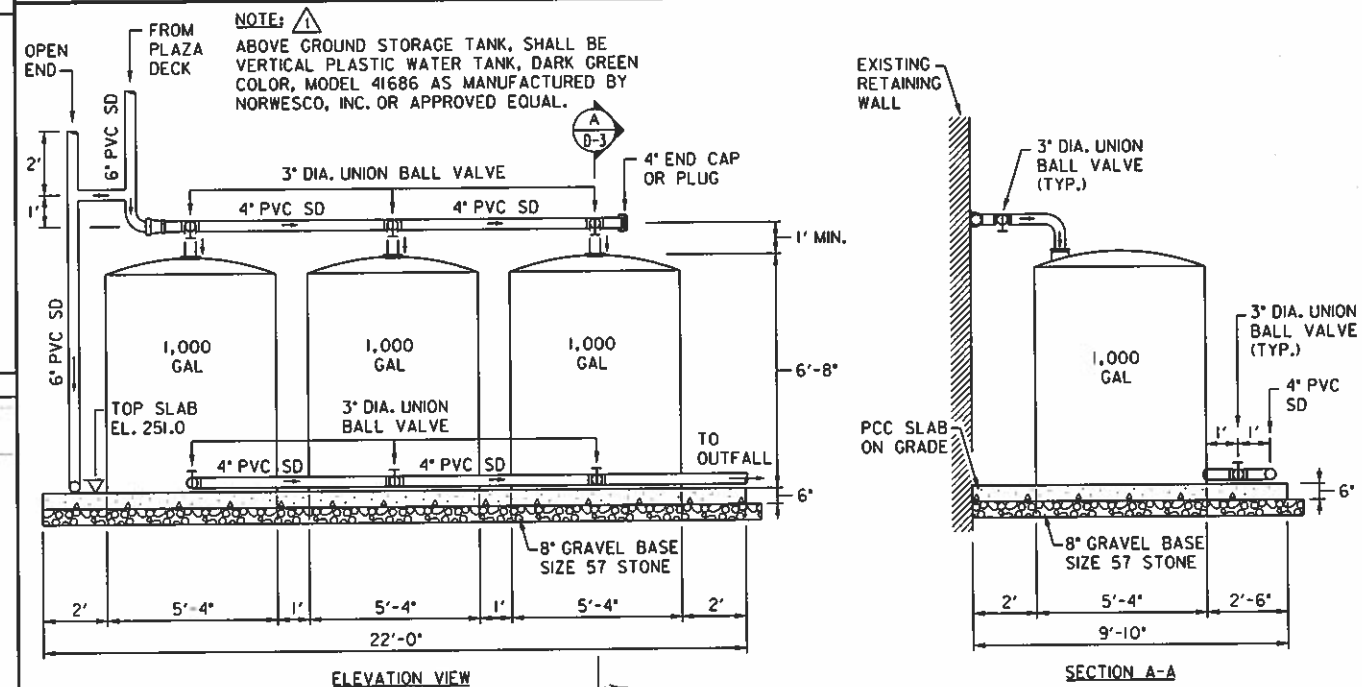


2 ABOVE GROUND STORAGE TANK FACILITY NO. 2
NOT TO SCALE

- NOTES:
- PVC PIPE AND FITTINGS SHALL BE PRESSURE RATED, ASTM D 1785, SDR 40.
 - EXPOSED PVC PIPE AND FITTINGS SHALL BE PAINTED FOR ULTRAVIOLET PROTECTION WITH ONE COAT OF WATER BASED LATEX PAINT, COLOR WHITE.



4 PARKING GARAGE RAMP DRAINAGE PLAN
NOT TO SCALE



- NOTES:
- PVC PIPE AND FITTINGS SHALL BE PRESSURE RATED, ASTM D 1785, SDR 40.
 - EXPOSED PVC PIPE AND FITTINGS SHALL BE PAINTED FOR ULTRAVIOLET PROTECTION WITH ONE COAT OF WATER BASED LATEX PAINT, COLOR WHITE.









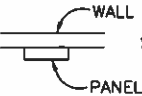

3 ABOVE GROUND STORAGE TANK FACILITY NO. 1
NOT TO SCALE



Date	Revisions
05-06-10	
Drawn By	BM, SM
Designed By	CV
Checked By	CV, EW
Date	MAY, 2010
Scale	NONE
Sheet	18 of 109

I:\67433 - UDC Plaza Deck & Garage\DCMVD-3.dgn
Friday, May 07, 2010 AT 08:56 AM

LEGEND

-  FLUORESCENT LIGHTING FIXTURE.
-  17' HT ROUND CURVED POLE
-  23' HT ROUND CURVED POLE
-  LIGHT MOUNTED TO SAIL POST
-  LIGHT BOLLARD
-  WALL MOUNTED LIGHT
-  LED LIGHT IN GLASS BLOCK ENCLOSURE
-  EMERGENCY LIGHT
-  SURFACE MOUNTED ELECTRICAL PANELBOARD.
-  BRANCH CIRCUIT HOMERUN TO DESIGNATED ELECTRICAL PANELBOARD. NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUITS IN RUN. NUMBER OF CROSSMARKS INDICATES NUMBER OF CONDUCTORS WHEN MORE THAN TWO. PROVIDE GROUND CONDUCTOR WITH ALL HOMERUNS.

ABBREVIATIONS

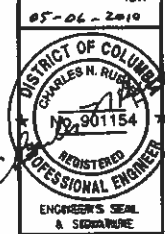
- AFF ABOVE FINISHED FLOOR
- A/C AIR CONDITIONING (UNIT)
- AHU AIR HANDLING UNIT
- AWG AMERICAN WIRE GAUGE
- AIC AMPS INTERRUPTING CAPACITY
- CLG CEILING
- CKT CIRCUIT
- C/B CIRCUIT BREAKER
- C CONDUIT
- CU COPPER
- DEMO DEMOLITION
- DISC DISCONNECT
- DBL DOUBLE
- DWG DRAWING
- ELEC ELECTRICAL
- EMERG EMERGENCY
- EC EMPTY CONDUIT
- EF EXHAUST FAN
- FSS FUSED SAFETY SWITCH
- HD HEAVY DUTY
- LGT LIGHTING
- HP HORSEPOWER
- KW KILOWATTS
- MCA MAIN CIRCUITS AMPS
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MDP MAIN DISTRIBUTION PANEL
- MLO MAIN LUGS ONLY
- NFSS NON-FUSED SAFETY SWITCH
- NIC NOT IN CONTRACT
- PNL PANEL
- PH PHASE
- P POLE(S)
- RECEPT RECEPTACLE
- RLA RUNNING LOAD AMPERES
- SW SWITCH
- TELE TELEPHONE
- UH UNIT HEATER
- UON UNLESS OTHERWISE NOTED
- XFMR TRANSFORMER
- Y WYE CONNECTED
- WP WEATHER PROOF.

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE AND THE DISTRICT OF COLUMBIA MUNICIPAL REGULATION CONSTRUCTION CODES (DCMR), LATEST EDITION.
2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY SUCH FEES AS MAY BE NECESSARY FOR INSPECTIONS, TESTS, AND OTHER SERVICES NECESSARY FOR THE COMPLETION OF HIS/HER WORK.
3. CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CONDITIONS OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE BIDDING.
4. ALL MATERIAL SHALL BE NEW AND BEAR THE U.L. LABEL LISTED APPROVAL FOR ITS INSTALLED APPLICATION.
5. IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND OTHER SERVICES AS MAY BE NECESSARY TO ACHIEVE THIS PRODUCT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES IN THE PLANS AND SPECIFICATION THAT WILL AFFECT THE WORK, PRIOR TO SUBMISSION OF HIS/HER BID PRICE.
6. THE CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
7. ALL WORK SHALL BE DONE AT SUCH TIMES AND IN SUCH A MANNER AS WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF ALL RELATED OR AFFECTED SYSTEMS. ALL POWER OUTAGES SHALL BE COORDINATED WITH THE UDC AND PEPCO.
8. ALL EXISTING ELECTRICAL CONDUIT MUST BE MAINTAINED UNTIL THE NEW OR TEMPORARY CONDUIT AND CABLE ARE IN PLACE. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH UDC.
9. PEPCO AND/OR UDC IS TO BE NOTIFIED 72 HOURS (THREE WORKING DAYS) PRIOR TO WORKING IN THE VICINITY OF PEPCO FACILITIES.
10. THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD OBSERVATION AND/OR RECORD DRAWINGS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE LOCATION OF THE UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS THAT COULD DAMAGE THESE UTILITIES.
11. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THESE UTILITIES.
12. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF THE UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
13. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING PARTIES AT LEAST SEVENTY TWO (72) HOURS, BUT NOT MORE THAN TEN (10) WORKING DAYS, IN ADVANCE OF PROCEEDING WITH ANY EXCAVATION WORK:

TYPE OF WORK	NOTIFY AGENCIES
GAS, TELEPHONE, ELECTRICAL, CONDUIT & CABLE TV	MISS UTILITY (800) 257-7777
WATER MAIN & SEWERS	WASA (202) 673-6600
STREET LIGHTS	UDC MR. ERIK THOMPSON (202) 570-3490
14. DETAILED AND COORDINATED 1/2" SCALE SHOP DRAWINGS SHALL BE SUBMITTED FOR EQUIPMENT TO BE INSTALLED. MODIFY WORK AS NECESSARY TO ACCOMMODATE ALL APPROVAL TO THE PROJECT ENGINEER OR HIS REPRESENTATIVE FOR ALL WORK AND JOB CONDITIONS AND ALL DISCIPLINES.
15. IF THE CONTRACTOR FINDS DISCREPANCIES AND/OR ERRORS IN THESE DOCUMENTS, THE BID SHALL INCLUDE ALL MATERIAL AND LABOR NECESSARY TO RECTIFY THE PROBLEM.
16. REVIEW ALL CONTRACT DOCUMENTS AND COORDINATE WITH ALL TRADES. NECESSARY MODIFICATIONS SHALL BE INCLUDED IN THE ORIGINAL BID PROPOSAL.
17. COMPLY WITH THE PHASING REQUIRED BY UDC.
18. WHERE IT IS NECESSARY TO CUT FLOORS, WALLS OR CEILINGS FOR INSTALLATION OF ANY ELECTRICAL WORK SUCH AS CUTTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL AFFECTED AREAS SHALL BE PATCHED AND FINISHED BY THE ELECTRICAL CONTRACTOR TO MATCH ORIGINAL CONDITION AND APPEARANCE. BEFORE ANY CUTTING OR PATCHING, THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE PROJECT ENGINEER. X-RAY FLOORS BEFORE CORE DRILLING. REMOVE AND REINSTALL ACOUSTICAL CEILING (TILES, SUPPORTS, GRIDS, ETC.) AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF THE NEW SYSTEM. PLASTER WALLS AND CEILINGS SHALL BE CAREFULLY CUT AND BE RESTORED TO THEIR ORIGINAL CONDITION. PROVIDE ACCESS PANELS AS NEEDED. REFINISH ALL DISTURBED AREAS TO MATCH THE EXISTING FINISHES. PAINT TO MATCH EXISTING. IN AREAS WITH DECORATIVE WALLS AND CEILING THE CONTRACTOR SHALL DETERMINE THE METHOD FOR LEAST DISTURBANCE OF THESE SURFACES. WHEN CUTTING IS NECESSARY THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE RESTORATION OF THE DISTURBED SURFACE. WOOD PANELS SHALL BE REMOVED AND REINSTALLED TO ACCOMMODATE THE INSTALLATION OF THE NEW CONDUITS AND DEVICES.
19. ALL CONDUCTORS SHALL BE COPPER. ALUMINUM CONDUCTORS WILL NOT BE PERMITTED. INSULATION SHALL BE 600 VOLT TYPE THWN. MINIMUM WIRE SIZE SHALL BE NO.12 AWG. WIRES SHALL BE COLOR CODED PER NEC.
20. ALL EXPOSED WIRING SHALL BE INSTALLED IN RIGID GALVANIZED STEEL WP CONDUIT. MINIMUM CONDUIT SHALL BE 1/2". FINAL CONNECTIONS TO MOTORS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT. CONDUITS IN PLAZA DECK SHALL BE PVC SCHEDULE 40.
21. GROUNDING OF THE ELECTRICAL SYSTEM SHALL BE IN ACCORDANCE WITH THE NATIONAL AND LOCAL ELECTRICAL CODES.
22. SUPPORT CONDUITS AND CABLES FROM BUILDING STRUCTURE IN A WORKMANLIKE MANNER.
23. EACH HOMERUN SHALL NOT CONTAIN MORE THAN 3 PHASE, GROUND AND NEUTRAL CONDUCTORS.
24. CONDUITS SHALL RUN PARALLEL/VERTICALLY TO THE EXISTING WALLS, TIGHT TO THE UNDERSIDE OF STRUCTURE.
25. PAINT ALL NEW SURFACES AND UNITS TO MATCH EXISTING SURROUNDING CONDITIONS.

DAVID VOLKERT & ASSOC. ENG., P.C.
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LIGHTING SYMBOLS, ABBREVIATIONS AND NOTES 1 OF 2

UNIVERSITY OF THE DISTRICT OF COLUMBIA
 VAN NESS CAMPUS, N.W.
 RENOVATION OF PLAZA DECK & PARKING GARAGE

Date	Revisions
Drawn By	MHD
Designed By	MHD
Checked By	CHP
Date	MAY 6, 2010
Scale	NONE
Sheet	26 of 109

ELECTRICAL NOTES CONT.

- 26. THE CONTRACTOR SHALL PROVIDE CONNECTION TO ALL EQUIPMENT REQUIRING POWER, VERIFY EXACT LOCATION AND TYPE OF CONNECTION. COORDINATE EXACT JUNCTION BOX AND POWER REQUIREMENTS FOR NEW EQUIPMENT WITH THE RESPECTIVE CONTRACTORS FURNISHING EQUIPMENT. SECURE CATALOG CUTS FOR EACH ITEM OF EQUIPMENT TO ENSURE CORRECT ROUGH-IN, REVISE CONNECTORS, RECEPTACLES, ETC. AS NEEDED TO SATISFY ALL REQUIREMENTS.
- 27. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ANY DAMAGES CAUSED BY OR RESULTING FROM DEFECTS IN HIS WORK.
- 28. THE CONTRACTOR SHALL ARRANGE AND COORDINATE HIS INSPECTION WITH OTHER TRADES ASSOCIATED WITH THIS PROJECT. PROVIDE THE OWNER WITH ALL CERTIFICATES OF COMPLIANCE REQUIRED FOR OCCUPANCY PERMIT.
- 29. THE CONTRACTOR SHALL PROVIDE NEW PANELBOARDS, WIRING WITH CONDUIT AND OTHER ELECTRICAL WORK AS NECESSARY. RUN ALL CONDUITS TIGHT TO THE UNDERSIDE OF SLAB AND COORDINATE ROUTING WITH ALL OTHER TRADES.
- 30. ALL WIRING DEVICES INCLUDING SWITCHES SHALL MATCH THE BUILDING STANDARD AS APPROVED BY UDC.
- 31. ALL NEW OUTLETS SHALL BE INSTALLED ON CLEAR WALL SPACES. ITEMS IMPROPERLY LOCATED SHALL BE RELOCATED AS DIRECTED BY ARCHITECT/ENGINEER AT CONTRACTOR'S EXPENSE.
- 32. PROVIDE ALL REQUIRED TEMPORARY POWER AND LIGHTING TO SATISFY THE PROJECT CONDITIONS AND ALL SAFETY STANDARDS.
- 33. IDENTIFY ALL JUNCTION BOXES WITH THEIR CIRCUIT NUMBER, PANEL AND SYSTEM VOLTAGE.
- 34. LIGHTING CONTROL: PROVIDE ALL REQUIRED EQUIPMENT INCLUDING
 - a) CONTACTOR ASCO 917, NEMA 1, 120V COIL WITH REQUIRED NO. OF POLES.
 - b) TIME CLOCK BY TORK DZS200.
 - c) PHOTO CELL BY TORK 3010.
- 35. COORDINATION OF THE OWNERS EQUIPMENT INSTALLERS: THE ELECTRICAL INFORMATION SHOWN IS FOR PERMIT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S EQUIPMENT INSTALLER THE EXACT ELECTRICAL REQUIREMENTS REQUIRED BY THE MANUFACTURER FOR A COMPLETE WIRING SYSTEM.
- 36. THE DRAWINGS ARE DIAGRAMMATIC AND REFLECT THE INTENT OF THIS PROJECT. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS BEFORE RENDERING HIS BID AND SHALL MAKE PROVISION FOR ALL MODIFICATIONS REQUIRED IN THE ELECTRICAL DESIGN. ADDITIONAL COST RELATED TO THE INSTALLATION, RELOCATION, MODIFICATION OR ADDITION OF EQUIPMENT REQUIRED TO SATISFY THE INTENT OF THIS PROJECT WILL NOT BE ACCEPTED.
- 37. FOR ADDITIONAL INFORMATION SEE CONTRACT SPECIFICATIONS.
- 38. IDENTIFY ALL PANELS, TRANSFORMERS, DISTR. PANELS, DISCONNECT SWITCHES, CONTROLLERS, RECEPTACLES, SWITCHES, ETC. PROVIDE NAME, SOURCE AND LOAD ON PHENOLIC PLATES. COORDINATE WITH ARCHITECT.
- 39. CONTRACTOR SHALL COORDINATE LOCATION AND ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO SUIT ACTUAL EQUIPMENT BEING PROVIDED.
- 40. PROVIDE ALL ADDITIONAL WIRES REQUIRED FOR SWITCHING AND CONTROL FUNCTIONS INDICATED OR REQUIRED. INCREASE ASSOCIATED CONDUIT SIZE ACCORDINGLY.
- 41. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH WORK OF OTHER PROJECTS AND TRADES TO AVOID PHYSICAL INTERFERENCES OR IMPROPER INSTALLATION. FAILURE TO DO SO SHALL BE CAUSE FOR CONTRACTOR TO REMOVE AND REINSTALL HIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 42. BIDDERS SHALL VERIFY LOCAL CODE REQUIREMENTS PRIOR TO BID SUBMITTAL AND SHALL INCLUDE ALL COSTS FOR COMPLETE COMPLIANCE WITH SAME.
- 43. VERIFY FIELD CONDITIONS FOR HEADROOM, ROOM FINISHES, FURRED CEILINGS, EXACT LOCATIONS OF FIXTURES, EQUIPMENT, OUTLETS, ETC.
- 44. FOR 120 VOLT CIRCUITS 100' OR OVER CONTRACTOR SHALL PROVIDE AND INSTALL #10 AWG WIRING THROUGHOUT THE CIRCUIT. FOR RUNS OVER 175', PROVIDE #8 AWG WIRING. FOR RUNS OVER 200', PROVIDE #8 AWG WIRING.
- 45. IDENTIFY ALL NEW JUNCTION BOXES.

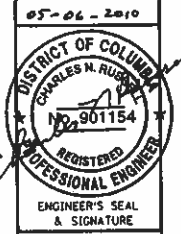
PANELBOARD NOTES

- 1. PANELBOARDS SHALL BE PROVIDED WITH COPPER BUSES. S/N EQUIPMENT GROUND BUS, ISOLATED GROUND BUS AND BOLT-ON CIRCUIT BREAKERS.
- 2. PANELBOARDS SHALL BE EQUIPPED WITH DOOR IN DOOR FRAME, MANUFACTURER'S NAME PLATE WITH CHARACTERISTICS AND ALL KEYS ALIKE.
- 3. CONTRACTOR SHALL VERIFY MOUNTING OF ALL PANELBOARDS PRIOR TO RELEASE FOR FABRICATION.
- 4. PANELBOARDS SHALL BE SUITABLE FOR SURFACE MOUNTING.
- 5. PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN DIRECTORY. HANDWRITTEN LABELS ARE NOT ACCEPTABLE.
- 6. PANELBOARDS SHALL BE PROVIDED WITH PHENOLIC PLASTIC ETCHED NAMEPLATES WITH THE FOLLOWING:
 - (1) PANEL DESIGNATION
 - (2) PANEL SOURCE OF SUPPLY WITH CIRCUIT NUMBER
 - (3) PANEL FEEDER SIZE
- 7. CONTRACTOR SHALL CHECK ALL PANELBOARD BUSES FOR UNBALANCED CONDITIONS AND BALANCE PANEL BETWEEN PHASES AS CLOSE AS POSSIBLE. SUBMIT AMPERE READING FOR EACH PANEL BOARD TO ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL.
- 8. FAULT CURRENT RATING
 - a) PANELBOARD 65K UON
- 9. DO NOT LOCATE PANELBOARDS UNDER DUCTWORK OR PIPING. RELOCATE AS NECESSARY.

BASIC MATERIALS AND METHODS

- 1. NEW WIRING SHALL RUN IN CONDUIT WITH A MINIMUM TRADE SIZE OF 1/2" INCH (UON).
- 2. MOTORS AND VIBRATING EQUIPMENT SHALL BE CONNECTED WITH A SHORT (APPROXIMATELY TWO (2) FEET) LENGTH OF LIQUID TIGHT FLEXIBLE METAL CONDUIT (UON).
- 3. FITTINGS, COUPLINGS AND ACCESSORIES SHALL BE COMPATIBLE WITH THE CONDUIT MATERIAL.
- 4. PULL AND JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED AND REQUIRED OF THE TYPE AND SIZE FOR THE INSTALLATION OF THE ELECTRICAL SYSTEM AND SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS AS REQUIRED BY CODES.
- 5. IN EMPTY CONDUITS (EC), INSTALL A No.12 THHN OR NYLON PULL WIRE.
- 6. ALL CIRCUIT CONDUCTORS SHALL BE MARKED OR TAGGED IN THE PANELBOARDS AND CONTROL PANELS TO IDENTIFY ITEMS SERVED AND THEIR LOCATION.
- 7. ALL THE BOXES AND CONDUCTORS SHALL BE MARKED TO INDICATE THE VOLTAGE, CIRCUIT NUMBERS AND TYPE OF SYSTEM.
- 8. EQUIPMENT, ELECTRICAL ITEMS AND APPURTENANCES REQUIRING INSPECTION, MAINTENANCE OR MANUAL OPERATION SHALL NOT BE INSTALLED IN INACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS AS NEEDED.
- 9. TEST ALL EQUIPMENT, DEVICES, APPURTENANCES, SYSTEMS, WIRING, ETC., USED. REPLACE ANY AND ALL DEFECTIVE EQUIPMENT, DEVICES, APPURTENANCES, SYSTEMS, WIRING, ETC., BEFORE COMPLETION OF PROJECT.
- 10. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE CONDITIONS WHICH MAY AFFECT THE BID.
- 11. WORK MAY NEED TO BE RELOCATED AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS.
- 12. ALL CONDUITS IN THE GARAGE SHALL BE INSTALLED EXPOSED.
- 13. IN AREAS WHERE THE CONTRACTOR SUSPECTS THE PRESENCE OF ASBESTOS, THE CONTRACTOR SHALL HAVE THE AREA TESTED BY A REPUTABLE ASBESTOS COMPANY. IF ASBESTOS IS PRESENT THE INSTALLATION SHALL BE MADE SO THAT THE EXISTING ASBESTOS WILL NOT BE DISTURBED. IF THE INSTALLATION IS NOT POSSIBLE THE CONTRACTOR SHALL NOTIFY UDC. UDC WILL ASSIGN AN ASBESTOS REMOVAL CONTRACTOR TO REMOVE THE ASBESTOS. THE CONTRACTOR THEN WILL BE ALLOWED TO PROCEED WITH HIS INSTALLATION. ALL COSTS AND DELAYS DUE TO THIS PROCEDURE SHALL BE INCLUDED IN THE ORIGINAL BID PROPOSAL. NO EXTRAS WILL BE ALLOWED FOR THIS PROCEDURE.
- 14. COORDINATE LOCATION OF ALL EQUIPMENT WITH EXISTING CONDITIONS, RELOCATE AS NECESSARY.
- 15. WIRE, CONNECT AND ENERGIZE ALL DEVICES AS REQUIRED.
- 16. WHERE CONCEALMENT IS NOT POSSIBLE, PAINT NEW CONDUITS TO MATCH EXISTING FINISHES.
- 17. ALL FIXTURES EXCEPT TYPE G SHALL BE U.L. LISTED FOR 'WET LOCATION'.

DAVID VOLKERT & ASSOC. ENG., P.C.
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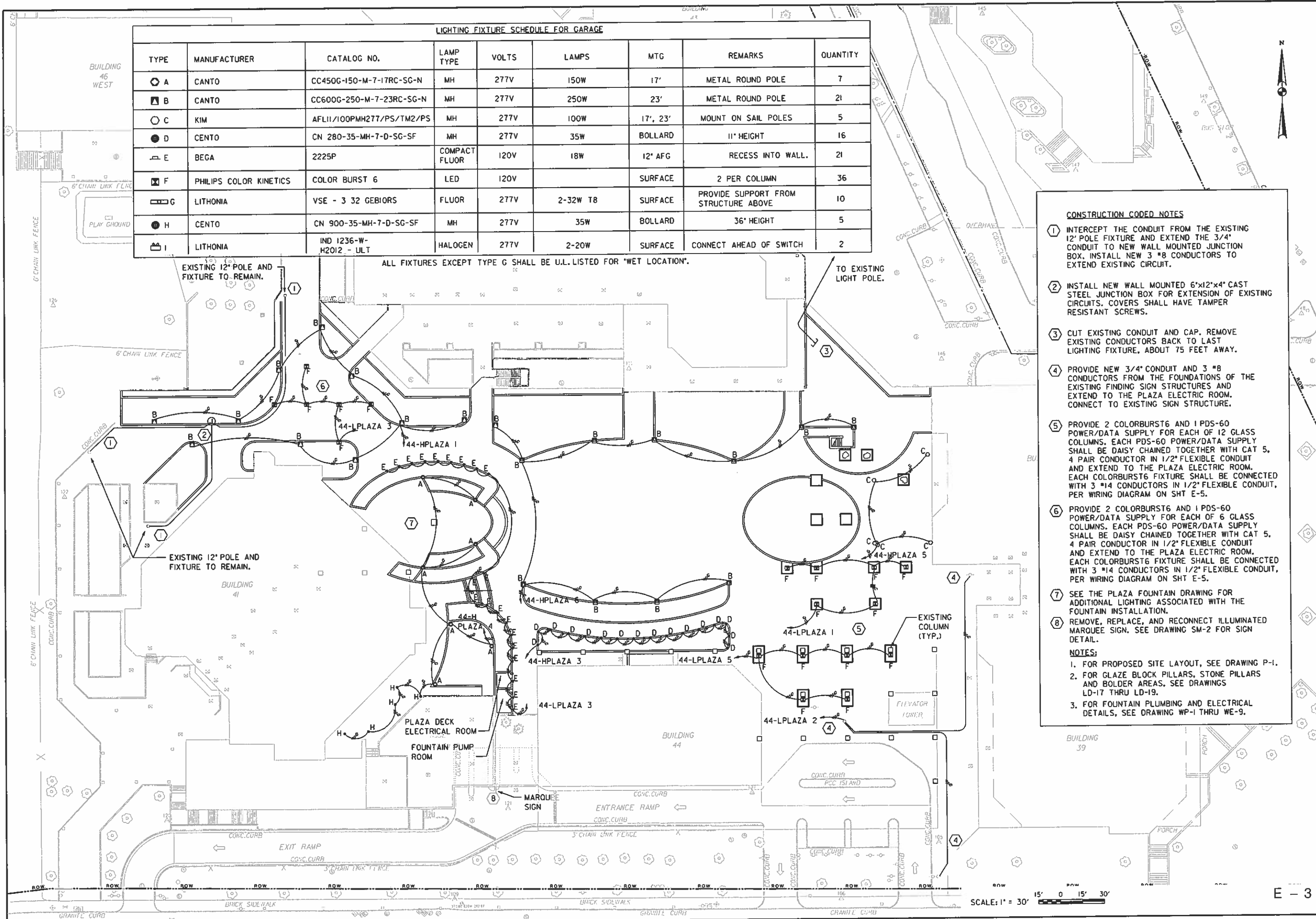
LIGHTING SYMBOLS, ABBREVIATIONS AND NOTES (2 OF 2)

UNIVERSITY OF THE DISTRICT OF COLUMBIA
 VAN NESS CAMPUS, N.W.
 RENOVATION OF PLAZA DECK & PARKING GARAGE

Date	Revised
Drawn By	MHD
Designed By	lshp
Checked By	Chr
Date	MAY 6, 2010
Scale	NONE
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LIGHTING FIXTURE SCHEDULE FOR GARAGE								
TYPE	MANUFACTURER	CATALOG NO.	LAMP TYPE	VOLTS	LAMPS	MTG	REMARKS	QUANTITY
⬠ A	CANTO	CC450G-150-M-7-17RC-SG-N	MH	277V	150W	17'	METAL ROUND POLE	7
⬠ B	CANTO	CC600G-250-M-7-23RC-SG-N	MH	277V	250W	23'	METAL ROUND POLE	21
○ C	KIM	AFL11/100PMH277/PS/TM2/PS	MH	277V	100W	17', 23'	MOUNT ON SAIL POLES	5
● D	CENTO	CN 280-35-MH-7-D-SG-SF	MH	277V	35W	BOLLARD	11" HEIGHT	16
⊠ E	BEGA	2225P	COMPACT FLUOR	120V	18W	12" AFG	RECESS INTO WALL.	21
⊠ F	PHILIPS COLOR KINETICS	COLOR BURST 6	LED	120V		SURFACE	2 PER COLUMN	36
⊠ G	LITHONIA	VSE - 3 32 GEBIORS	FLUOR	277V	2-32W T8	SURFACE	PROVIDE SUPPORT FROM STRUCTURE ABOVE	10
● H	CENTO	CN 900-35-MH-7-D-SG-SF	MH	277V	35W	BOLLARD	36" HEIGHT	5
⊠ I	LITHONIA	IND 1236-W-H2012 - ULT	HALOGEN	277V	2-20W	SURFACE	CONNECT AHEAD OF SWITCH	2

ALL FIXTURES EXCEPT TYPE G SHALL BE U.L. LISTED FOR 'WET LOCATION'.



- CONSTRUCTION CODED NOTES**
- INTERCEPT THE CONDUIT FROM THE EXISTING 12' POLE FIXTURE AND EXTEND THE 3/4" CONDUIT TO NEW WALL MOUNTED JUNCTION BOX. INSTALL NEW 3 #8 CONDUCTORS TO EXTEND EXISTING CIRCUIT.
 - INSTALL NEW WALL MOUNTED 6"x12"x4" CAST STEEL JUNCTION BOX FOR EXTENSION OF EXISTING CIRCUITS. COVERS SHALL HAVE TAMPER RESISTANT SCREWS.
 - CUT EXISTING CONDUIT AND CAP. REMOVE EXISTING CONDUCTORS BACK TO LAST LIGHTING FIXTURE, ABOUT 75 FEET AWAY.
 - PROVIDE NEW 3/4" CONDUIT AND 3 #8 CONDUCTORS FROM THE FOUNDATIONS OF THE EXISTING FINDING SIGN STRUCTURES AND EXTEND TO THE PLAZA ELECTRIC ROOM. CONNECT TO EXISTING SIGN STRUCTURE.
 - PROVIDE 2 COLORBURST6 AND 1 PDS-60 POWER/DATA SUPPLY FOR EACH OF 12 GLASS COLUMNS. EACH PDS-60 POWER/DATA SUPPLY SHALL BE DAISY CHAINED TOGETHER WITH CAT 5, 4 PAIR CONDUCTOR IN 1/2" FLEXIBLE CONDUIT AND EXTEND TO THE PLAZA ELECTRIC ROOM. EACH COLORBURST6 FIXTURE SHALL BE CONNECTED WITH 3 #14 CONDUCTORS IN 1/2" FLEXIBLE CONDUIT, PER WIRING DIAGRAM ON SHT E-5.
 - PROVIDE 2 COLORBURST6 AND 1 PDS-60 POWER/DATA SUPPLY FOR EACH OF 6 GLASS COLUMNS. EACH PDS-60 POWER/DATA SUPPLY SHALL BE DAISY CHAINED TOGETHER WITH CAT 5, 4 PAIR CONDUCTOR IN 1/2" FLEXIBLE CONDUIT AND EXTEND TO THE PLAZA ELECTRIC ROOM. EACH COLORBURST6 FIXTURE SHALL BE CONNECTED WITH 3 #14 CONDUCTORS IN 1/2" FLEXIBLE CONDUIT, PER WIRING DIAGRAM ON SHT E-5.
 - SEE THE PLAZA FOUNTAIN DRAWING FOR ADDITIONAL LIGHTING ASSOCIATED WITH THE FOUNTAIN INSTALLATION.
 - REMOVE, REPLACE, AND RECONNECT ILLUMINATED MARQUEE SIGN. SEE DRAWING SM-2 FOR SIGN DETAIL.
- NOTES:**
- FOR PROPOSED SITE LAYOUT, SEE DRAWING P-1.
 - FOR GLAZE BLOCK PILLARS, STONE PILLARS AND BOLDER AREAS, SEE DRAWINGS LD-17 THRU LD-19.
 - FOR FOUNTAIN PLUMBING AND ELECTRICAL DETAILS, SEE DRAWING WP-1 THRU WE-9.

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 05-06-2010
 DISTRICT OF COLUMBIA
 CHARLES N. RUSSELL
 No. 901154
 REGISTERED PROFESSIONAL ENGINEER
 ENGINEER'S SEAL & SIGNATURE

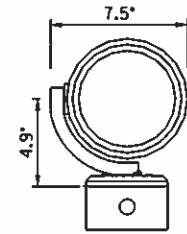
SITE LIGHTING PLAN

UNIVERSITY OF THE DISTRICT OF COLUMBIA
VAN NESS CAMPUS, N.W.
RENOVATION OF PLAZA DECK & PARKING GARAGE

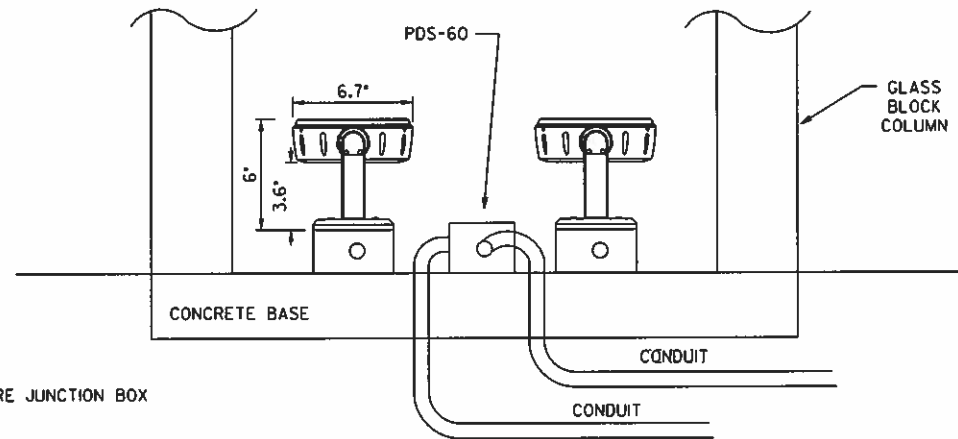
Date	Revisions

Drawn By: MHD
 Designed By: MHD
 Checked By: CHR
 Date: MAY 6, 2010
 Scale: 1" = 30'
 Sheet: 28 of 109

SCALE: 1" = 30'



4" SQUARE JUNCTION BOX

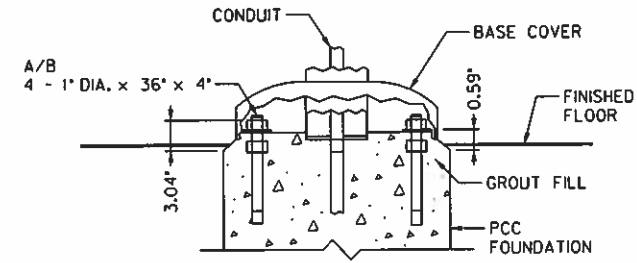


MOUNT 4" SQUARE JUNCTION BOX TO FLOOR.
MOUNT COLORBURST FIXTURE TO JUNCTION BOX.
STUB UP CONDUIT THROUGH CONCRETE BASE.
CONNECT TO PDS-60 WITH FLEXIBLE CONDUIT.

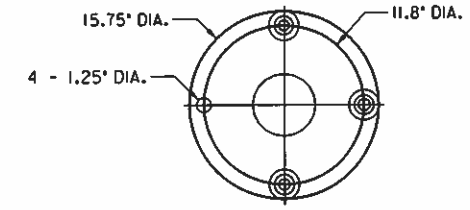
TYPE F LIGHT FIXTURE

- NOTE:
1. PROVIDE 2 FIXTURES PER COLUMN.
 2. SEE COLOR BURST 6 WIRING DIAGRAM, SHEET E-5.

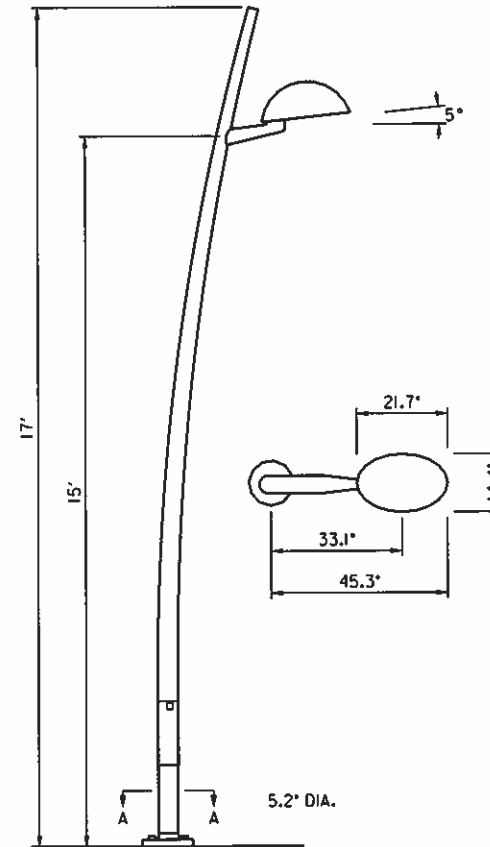
1 GLASS BLOCK COLUMN LUMINAIRE
NOT TO SCALE



FOUNDATION DETAILS



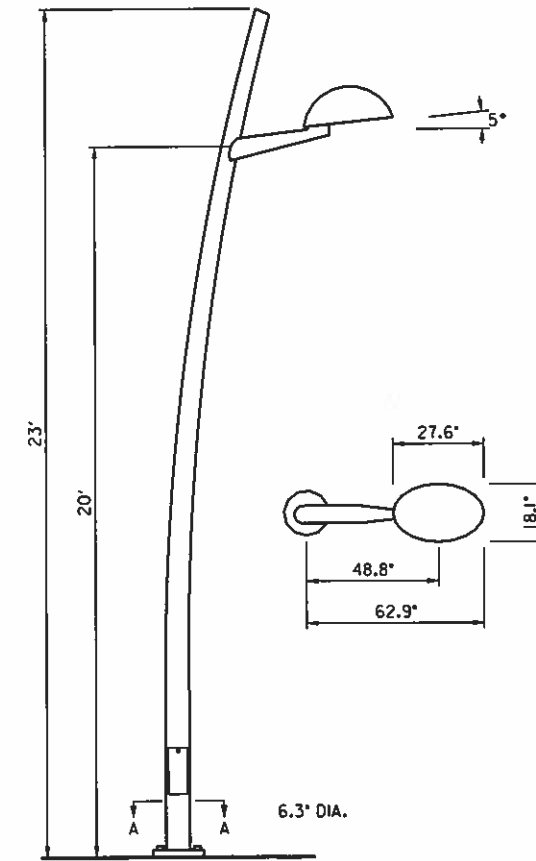
SECTION A - A



TYPE A LIGHT FIXTURE

- NOTE:
1. LIGHT POLE MODEL CANTO CC450G, COLOR SILVER GREY, AS MANUFACTURED BY HESSAMERICA.
 2. SEE DETAIL 4, BAKER DWG LD-13.

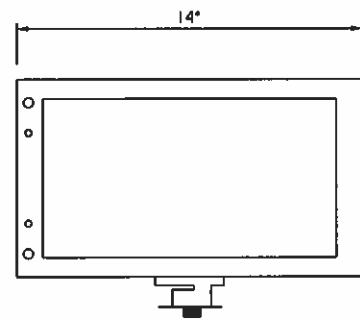
4 17' POLE MOUNTED LUMINAIRE
NOT TO SCALE



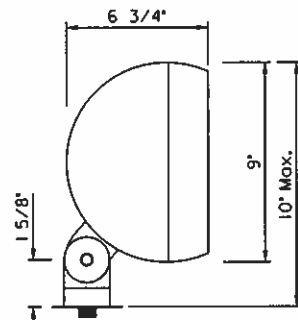
TYPE B LIGHT FIXTURE

- NOTE:
1. LIGHT POLE MODEL CANTO CC600G, COLOR SILVER GREY, AS MANUFACTURED BY HESSAMERICA.
 2. SEE DETAIL 4, BAKER DWG LD-13.

5 23' POLE MOUNTED LUMINAIRE
NOT TO SCALE

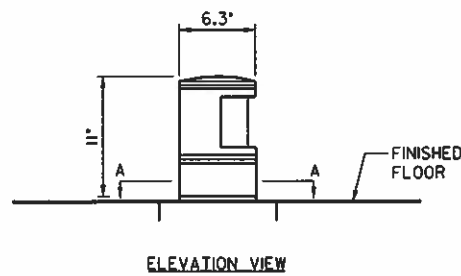


TYPE C LIGHT FIXTURE



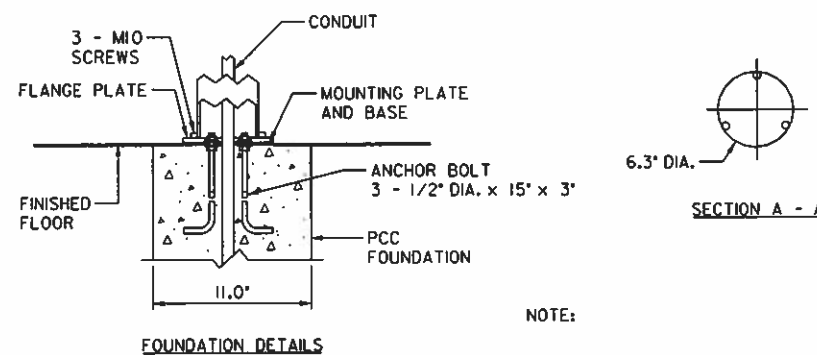
2 SAIL LIGHTS
NOT TO SCALE

- NOTE:
1. PROVIDE ALL HARDWARE FOR MOUNTING ON SAIL POLES.
 2. USE KIM LIGHTING CATALOG NO. SPT, SIDE POLE MOUNT TENON FOR ROUND POLE.
 3. SEE DETAIL 1, BAKER DWG LD-15.



ELEVATION VIEW

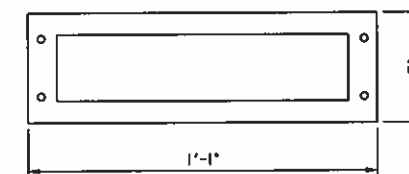
TYPE D LIGHT FIXTURE



FOUNDATION DETAILS

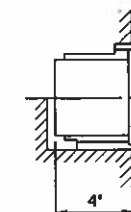
3 ILLUMINATING BOLLARD
NOT TO SCALE

- NOTE:
1. BOLLARD CANTO MODEL CN280, COLOR SILVER GREY, AS MANUFACTURED BY HESSAMERICA.

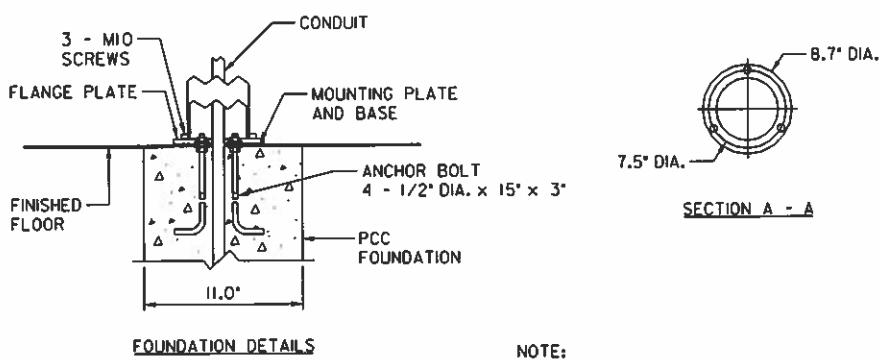
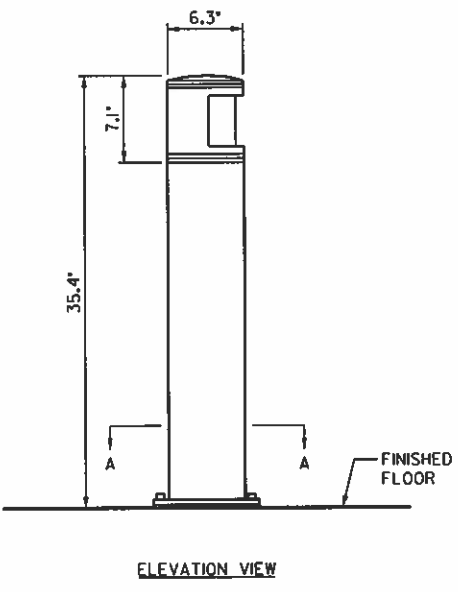
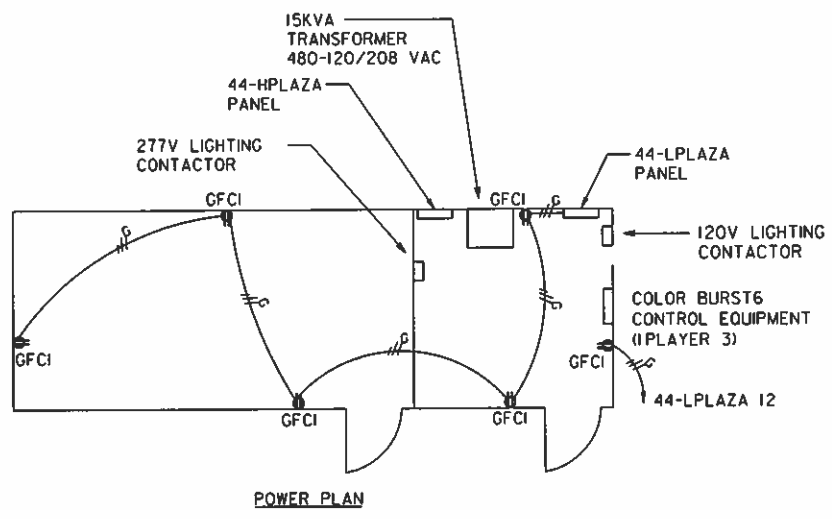
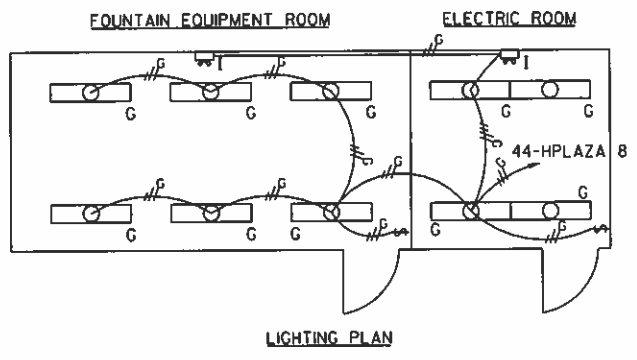


- NOTE:
1. BEGA RECESSED WALL LUMINAIRE 2225 P.
 2. SEE DETAIL 1, BAKER DWG. LD-13.

6 RECESSED WALL LUMINAIRE
NOT TO SCALE



TYPE E LIGHT FIXTURE

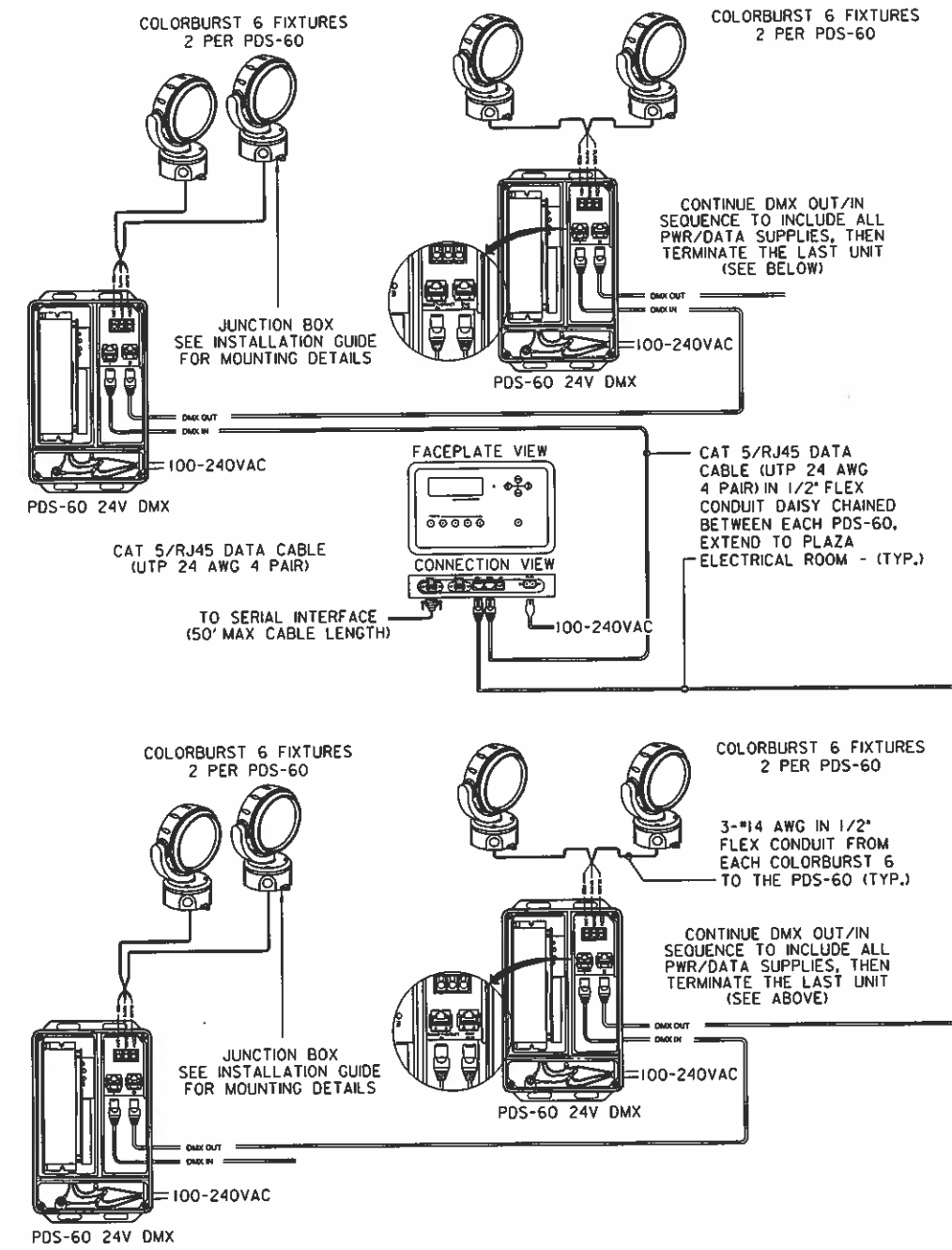


2 BOLLARD NOT TO SCALE

NOTE:

1. BOLLARD CENTO MODEL CN900, COLOR SILVER GREY, AS MANUFACTURED BY HESSAMERICA.

TYPE H LIGHT FIXTURE



- NOTES:**
1. PDS-60 SHALL BE INSTALLED IN BASE OF EACH GLASS COLUMN.
 2. ALL FLEXIBLE CONDUIT, POWER CABLE, CONTROL CABLE, JUNCTION BOXES, 18 PDS-60 POWER/DATA SUPPLY SHALL BE INCLUDED IN THE PRICE OF THE COLORBURST 6 FIXTURES.
 3. ALL 36 COLORBURST 6 FIXTURES SHALL BE CONTROLLED BY THE 1-PLAYER 3 LOCATED IN THE PLAZA ELECTRICAL ROOM.

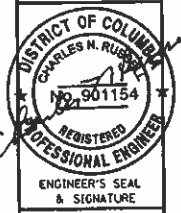
3 COLOR BURST 6 WIRING DIAGRAM (TYP) NOT TO SCALE

NORTHWEST PLAZA AREA 12 COLORBURST FIXTURES 6 PDS-60 POWER/DATA SUPPLY

PLAZA ELECTRICAL ROOM 1-PLAYER 3 CONTROLLER

SOUTHWEST PLAZA AREA 24 COLORBURST FIXTURES 12 PDS-60 POWER/DATA SUPPLY

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5028 WISCONSIN AVE., N.W., WASHINGTON, D.C. 20016



ELECTRIC ROOM LAYOUT AND DETAILS

UNIVERSITY OF THE DISTRICT OF COLUMBIA
VAN NESS CAMPUS, N.W.

RENOVATION OF PLAZA DECK & PARKING GARAGE

Date	Revisions
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Designed By	MHO
Checked By	CHR
Date	MAY 6, 2010
Scale	NONE
Sheet	30 of 109

