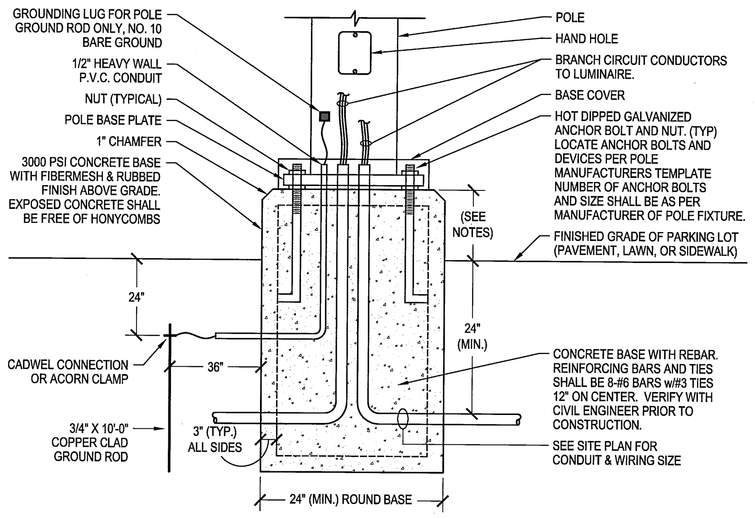
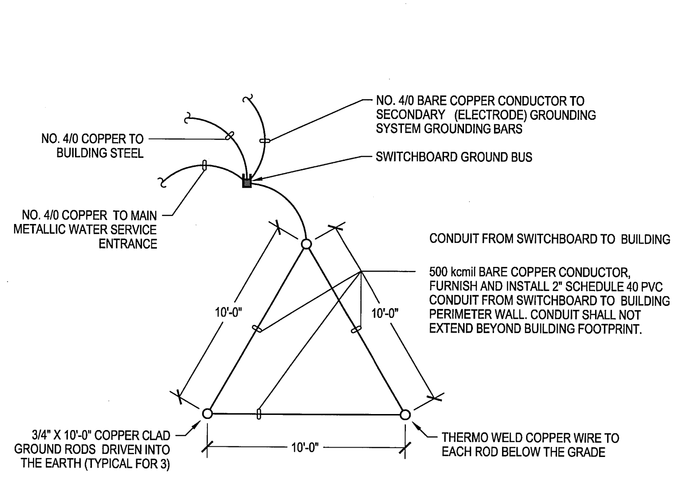


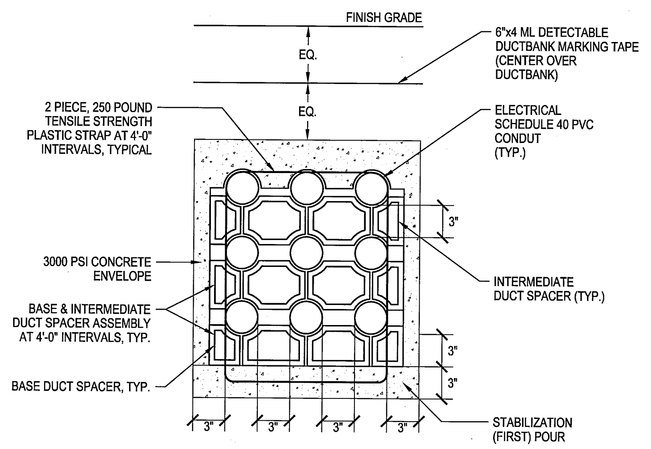
04 / E0.2 SITE LIGHTING POLE BASE DETAIL (10)
SCALE: NONE

NOTES:
1. WHEN INSTALLING PARKING LOT LIGHTING IN LAWN AREAS AROUND THE PARKING LOT OR ISLANDS OR BERMS INSIDE THE PARKING LOT, ADJUST THE EXPOSED HEIGHT OF THE BASE SO THAT THE TOP OF THE BASE IS 2'-0" ABOVE THE FINISHED GRADE OF THE PARKING LOT SURFACE.
2. WHEN INSTALLING SITE LIGHTING FIXTURE IN AREAS OTHER THAN THOSE MENTIONED IN NOTE 1, ADJUST THE EXPOSED HEIGHT OF THE BASE SO THAT THE TOP OF THE BASE IS 4" ABOVE THE TOP OF THE CURB.
   A. WHEN THE FINISHED GRADE SLOPES DOWNWARD FROM THE CURB, ADJUST THE EXPOSED HEIGHT OF THE BASE SO THAT THE TOP OF THE BASE IS 4" ABOVE THE TOP OF THE CURB.
   B. WHEN THE FINISHED GRADE SLOPES UPWARD FROM THE CURB, ADJUST THE EXPOSED HEIGHT OF THE BASE SO THAT THE TOP OF THE BASE IS 2" ABOVE THE FINISHED GRADE AT THE BACK SIDE OF THE BASE.
3. LOCATE BASES 3'-0" BACK FROM THE CURB TO CENTER.



05 / E0.2 MAIN GROUNDING DETAIL
SCALE: NONE

NOTES: FURNISH AND INSTALL ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE 5 OHMS OR LESS RESISTANCE. RODS SHALL BE LOCATED IN UNPAVED AREAS.



03 / E0.2 ELECTRICAL SECONDARY SERVICE ENTRANCE DUCT BANK DETAIL
SCALE: NONE

NOTE: MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24"

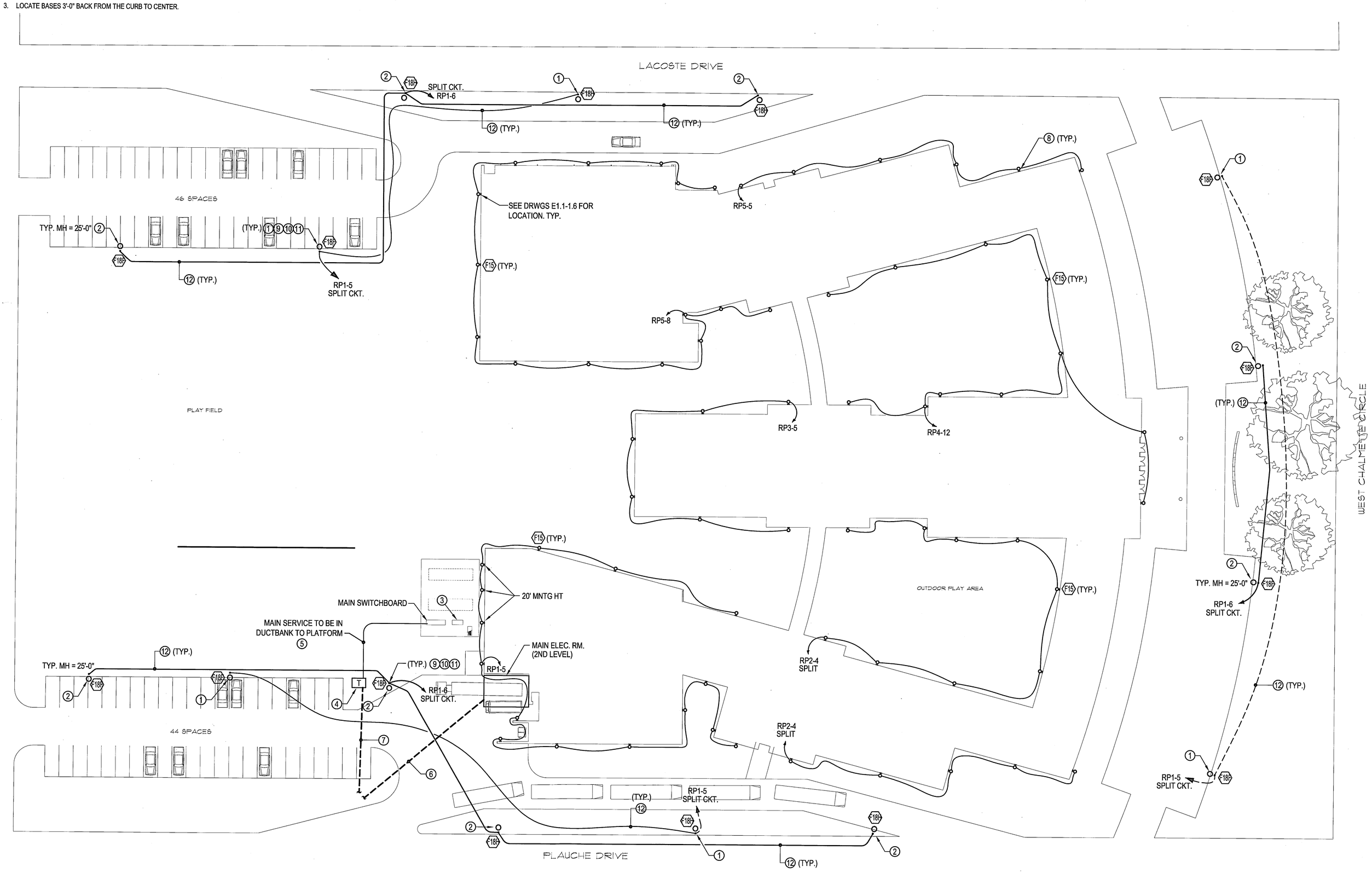
KEYED PLAN NOTES:

1. ZONE 1 - LIGHT ON DUSK TO 11:30PM AND 5:30AM TO DAWN. (PHOTOCELL & TIMECLOCK)
2. ZONE 2 - LIGHT ON DUSK TO DAWN. (PHOTOCELL ONLY)
3. EMERGENCY GENERATOR . MINIMUM CLEARANCE IS 3 FT. ON ALL SIDES. REFER TO POWER RISER DIAGRAM FOR WIRING INFO.
4. POWER COMPANY PAD MOUNTED TRANSFORMER, COORDINATE LOCATION WITH CIVIL DRAWING. MINIMUM CLEARANCE IN FRONT OF TRANSFORMER IS 10 FT. MIMIMUM CLEARANCE ON SIDES AND BACK OF TRANSFORMER IS 3 FT.
5. SECONDARY UNDERGROUND ELECTRICAL SERVICE SEE RISER DIAGRAM ON DRAWING E2.17.
6. TELECOMMUNICATION/CATV INCOMING SERVICE. PROVIDE (2) 4" PVC CONDUIT FOR TELEPHONE SERVICE AND (2) 4" PVC CONDUIT FOR CATV SERVICE. FIELD COORDINATE WITH LOCAL TELEPHONE AND CATV COMPANIES. PROVIDE PULL WIRE IN CONDUITS.
7. POWER COMPANY PRIMARY ELECTRICAL SERVICE, PROVIDE 2-6" PVC SCHEDULE 40 CONDUITS 42" BELOW GRADE, COORDINATE WITH POWER COMPANY, AND EXISTING UNDERGROUND UTILITIES.
8. REFER TO FLOOR LIGHTING PLAN AND ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF WALL PACK FIXTURES.
9. ALL PARKING LOT SITE LIGHTING POLES SHALL HAVE CONTINUITY OF GROUND. CONTRACTOR SHALL CONNECT THE GREEN WIRE GROUND TO LUG INSIDE POLE.
10. CONTRACTOR SHALL FURNISH A COMPLETE POLE BASE INCLUDING THE ANCHOR BOLTS, BOLT TEMPLATE, POLE FIXTURE, CONDUIT, CONCRETE REINFORCING STEEL AND ALL FINAL CONNECTIONS INCLUDING ALL EXCAVATION AND BACKFILLING.
11. THIS CONTRACTOR SHALL VERIFY THE LOCATION OF ALL FIXTURES w/ LANDSCAPING PRIOR TO ROUGHING-IN SITE LIGHTING AND CONDUIT. REFER TO CIVIL DRAWING FOR LOCATIONS OF ALL OTHER UNDERGROUND UTILITIES.
12. PROVIDE 4#8, 2#10 GND IN 1-1/4" PVC SCHEDULE 40 CONDUIT 24" BELOW GRADE.

GENERAL NOTES:

1. EACH SECONDARY CONDUCTOR AT THE PAD MOUNT TRANSFORMER SHALL BE PREPARED AS FOLLOWS TO PROVIDE A WATER TIGHT TERMINATION:
   A. CRIMP GREAVES LUG (#PT500R500-S-3 PLUG LENGTH) TO CABLE.
   B. SLIDE 3M COLD SHRINK TUBE (#8428-12 SERIES - MODEL BASED ON ACTUAL CABLE O.D.)
   C. WRAP LUG WITH MIN. 1 HALF LAP WRAP OF 3M SCOTCH MASTIC STRIP 2230 TO COVER CRIMPED AREA OF LUG ABOUT 3/8" TO 1/2" FROM THE PLUG OF THE LUG TO A MIN. OF 1" PAST WHERE THE LUG AND CABLE JACKET MEET. WRAP MASTIC WITH 1 HALF LAP OF 3M #70HDT SELF FUSING SILICONE TAPE.
   D. PROVIDE A 1" WIDE LAYER OF 3M SCOTCH MASTIC STRIP 2230 SIX INCHES FROM THE CABLE END WITH LUB FOR ADDITIONAL MOISTURE BARRIER.
   E. POSITION THE COLD SHRINK TUBE ABOUT 3/8" TO 1/2" FROM THE PLUG OF THE LUG SO THAT THE MASTIC/SILICON TAPE IS JUST EXPOSED. BEGIN REMOVING THE CORE FROM THE COLD SHRINK, KEEPING THE COLD SHRINK TUBE PROPERLY POSITIONED ON THE LUG.

   PART NUMBERS ARE BASED ON 500 kcmil SERVICE CONDUCTORS. PROVIDE EQUIVALENT MATERIALS FOR CONDUCTORS OF DIFFERENT SIZES. THE UTILITY COMPANY WILL TERMINATE THE CABLES TO THE TRANSFORMER.
2. CONTRACTOR SHALL SEAL THE COMMUNICATIONS SERVICE CONDUITS AFTER CABLES ARE INSTALLED.



ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

NORTH

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No.	DATE	REVISION DESCRIPTION
	04/10/2009	BID/PERMIT SUBMISSION

DRAWING TITLE: ELECTRICAL SITE PLAN
PROJECT No: 2005 B
CHECK BY:
DRAWN BY:
DATE: 04/10/09
SHEET No: -

E0.2

OF -- SHEET

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