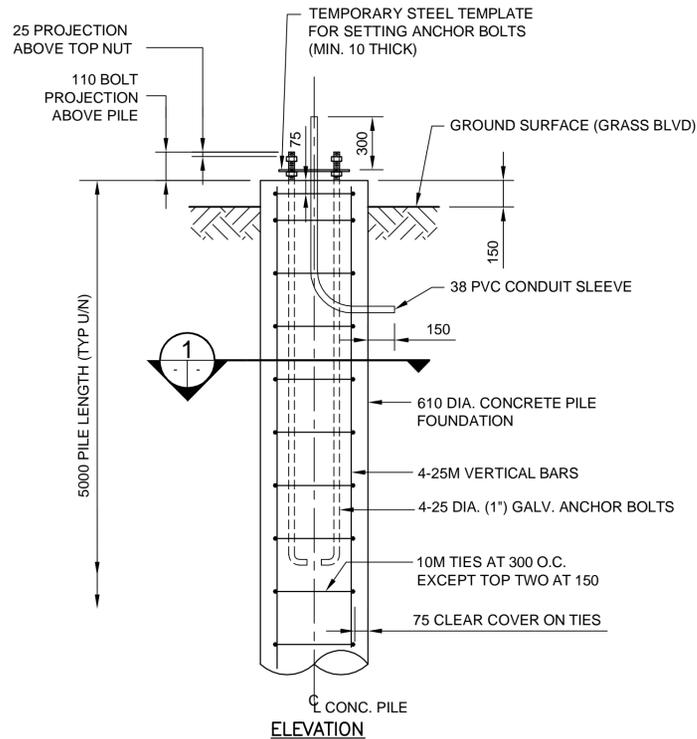
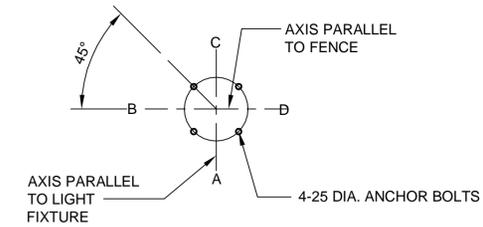




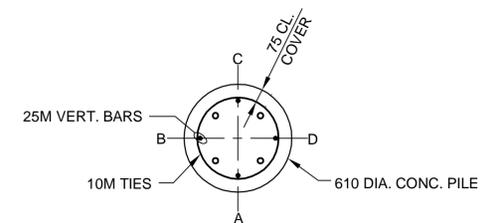
**1395 MOLSON PARKING LOT - PLAN**  
SCALE - 1:200



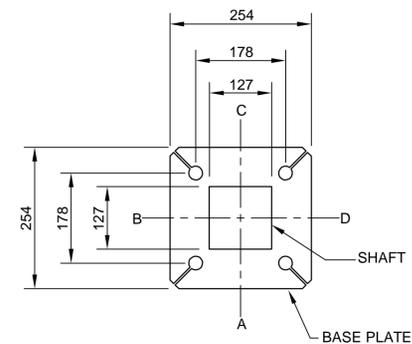
**CONCRETE PILE FOUNDATION DETAIL**  
SCALE - 1:20



**ANCHOR BOLTS LAYOUT**



**SECTION**



**EXISTING BASE PLATE DETAIL**

**ELECTRICAL CONSTRUCTION NOTES**

- DISCONNECT AND REMOVE EXISTING LIGHT STANDARD TO PERMIT REMOVAL OF CONCRETE PILE. EXTEND EXISTING LIGHTING CIRCUIT TO NEW LIGHT STANDARD LOCATION AND INSTALL LIGHT STANDARD. PROVIDE SUITABLE SPLICE APPROVED FOR UNDERGROUND INSTALLATION AND CLEARLY INDICATE SPLICE LOCATION ON RECORD DRAWINGS TO BE SUBMITTED TO CONTRACT ADMINISTRATOR. TRENCH CABLES UNDERGROUND FROM EXISTING LIGHT STANDARD LOCATION TO NEW LOCATION. CONDUCTOR SIZE AND TYPE TO MATCH EXISTING.
- DISCONNECT AND REMOVE EXISTING PARKING RECEPTACLES (4), CONDUIT AND OUTLET BOXES TO PERMIT REMOVAL OF FENCE. EXTEND EXISTING PARKING RECEPTACLE CIRCUITS UTILIZING APPROVED UNDERGROUND JUNCTION BOXES AND SPLICES SUITABLE FOR THIS APPLICATION. PROVIDE NEW CONDUIT, OUTLET BOXES, RECEPTACLES, WEATHERPROOF COVERS AND CONDUCTORS ON NEW FENCE IN REVISED LOCATION. RETAIN EXISTING CIRCUITING AND CONTROL FOR NEWLY INSTALLED PARKING RECEPTACLES. TRENCH CABLES AND/OR CONDUIT UNDERGROUND FROM EXISTING FENCE LOCATION TO NEW LOCATION.

**PILE CONSTRUCTION NOTES**

- REINFORCING STEEL**  
CSA G30.18 400W  
VERTICAL BARS FULL LENGTH OF PILE  
ALL REINFORCING HOT-DIP GALVANIZED
- ANCHOR BOLTS**  
CSA G40.21 GR. 300W  
4-25 (1") DIA. x 1500 LONG + 150 HOOK  
EACH BOLT C/W 2 NUTS & 2 WASHERS  
TOP 300 THREADED  
HOT DIP GALVANIZED FULL LENGTH
- ANCHOR BOLTS SHALL BE ALIGNED WITH A TEMPORARY STEEL TEMPLATE. PLACEMENT OF ANCHOR BOLTS AND CONCRETE WITHOUT THE TEMPLATE WILL NOT BE PERMITTED. CONTRACTOR TO VERIFY DIMENSIONS OF EXISTING BASE PLATE AND ADJUST PILE ANCHOR BOLT AND FORMING TEMPLATE TO MATCH.
- TOP OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE) MIN 1000 mm BELOW FINAL GRADE.
- CONCRETE MIX DESIGN**  
PROPORTIONING OF FINE AGGREGATE, COARSE AGGREGATE, CEMENT, WATER, AND AIR ENTRAINING AGENT SHALL BE SUCH AS YIELD CONCRETE HAVING THE REQUIRED STRENGTH AND WORKABILITY AS FOLLOWS:  
i) MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 35 MPa  
ii) MAXIMUM WATER/CEMENT RATIO = 0.45  
iii) MINIMUM CEMENT CONTENT = 340 kg/m  
iv) SLUMP = 80 mm ± 30 mm  
v) AGGREGATE: 20 mm NOMINAL  
vi) AIR CONTENT: 5.0 TO 8.0 PERCENT  
vii) CEMENT - TYPE HS, HIGH SULFATE-RESISTANT.
- CONTRACTOR SHALL REMOVE THE BASE TEMPLATE, NUTS AND FORM, FOLLOWING A MINIMUM 24 HOUR CONCRETE CURING PERIOD.
- REINSTALL EXISTING LIGHT STANDARD POLE.

**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	HYDRO	150 WM	WATERMAIN	150 WM	UNDERGROUND STRUCTURES	BENCHMARK: GEODETIC MARKER # 654321 N: 5531099.483 E: 639291.865	DESIGNED BY BNF/MBL	ENGINEER'S SEAL PROVINCE OF MANITOBA ORIGINAL STAMPED BY B.N. FEUER 06/08/2012 Member 05446 REGISTERED PROFESSIONAL ENGINEER	THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT	CITY DRAWING NUMBER P-3329-21
300 LDS	HYDRANT VALVE	300 LDS	MTS	MTS	MTS	300 LDS	HYDRANT VALVE	300 LDS	DATE		DRAWN BY TJH	RELEASING PROFESSIONAL ENGINEER PROVINCE OF MANITOBA ORIGINAL STAMPED BY M.B. LAU 06/08/2012 REGISTERED PROFESSIONAL ENGINEER	ROUNDABOUT CONSTRUCTION GRASSIE BOULEVARD AND MOLSON STREET INTERSECTION	SHEET 21 OF 24
250 WWS	LAND DRAINAGE SEWER	250 WWS	CONCRETE	CONCRETE	CONCRETE	250 WWS	LAND DRAINAGE SEWER	250 WWS	NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	3 ISSUED FOR TENDER 06/08/12 DBW	CHECKED BY DBW	RELEASING PROFESSIONAL ENGINEER PROVINCE OF MANITOBA ORIGINAL STAMPED BY M.B. LAU 06/08/2012 REGISTERED PROFESSIONAL ENGINEER	CONSULTANT DRAWING NUMBER ELECTRICAL - 1395 MOLSON PARKING LOT	
100 GAS	WASTE WATER SEWER	100 GAS	ASPHALT	ASPHALT	ASPHALT	100 GAS	WASTE WATER SEWER	100 GAS	3 ISSUED FOR REVIEW 05/31/12 DBW	1 ISSUED FOR REVIEW 07/28/11 DBW	APPROVED BY DPK	CONSULTANT PROJECT NUMBER 11-4588		
EXISTING	MANHOLE	EXISTING	PLANING	PLANING	PLANING	EXISTING	MANHOLE	EXISTING	NO. REVISIONS	DATE	DATE			
PROPOSED	CATCH BASIN	PROPOSED	SIDEWALK	SIDEWALK	SIDEWALK	PROPOSED	CATCH BASIN	PROPOSED						
EXISTING	CURB INLET	EXISTING	PAVING STONES	PAVING STONES	PAVING STONES	EXISTING	CURB INLET	EXISTING						
PROPOSED	JUNCTIONS	PROPOSED	PARTIAL DEPTH REPAIR	PARTIAL DEPTH REPAIR	PARTIAL DEPTH REPAIR	PROPOSED	JUNCTIONS	PROPOSED						
EXISTING	CULVERT	EXISTING	PROPERTY LINE	PROPERTY LINE	PROPERTY LINE	EXISTING	CULVERT	EXISTING						
PROPOSED	GAS	PROPOSED	SURVEY BAR	SURVEY BAR	SURVEY BAR	PROPOSED	GAS	PROPOSED						
EXISTING	LEGEND-PLAN	PROPOSED	CURB RAMP	CURB RAMP	CURB RAMP	EXISTING	LEGEND-PROFILE	PROPOSED						

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