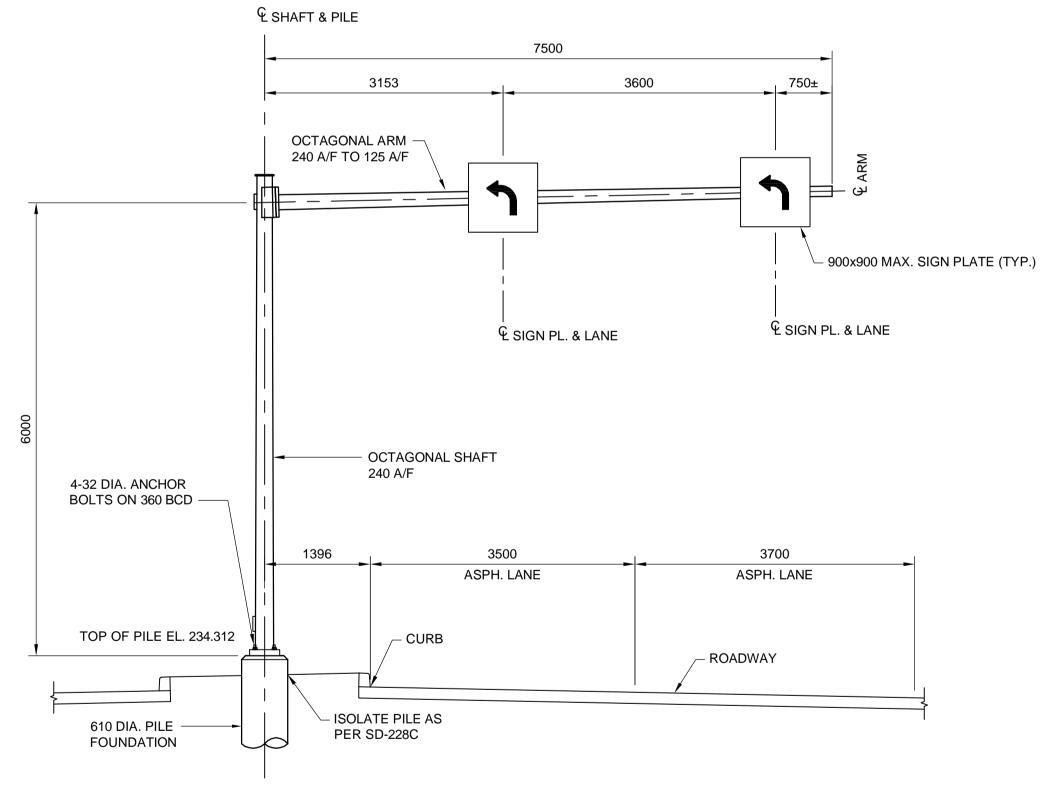
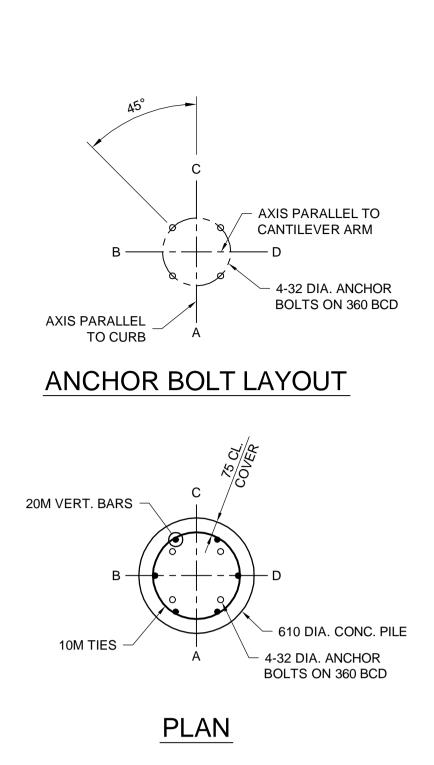


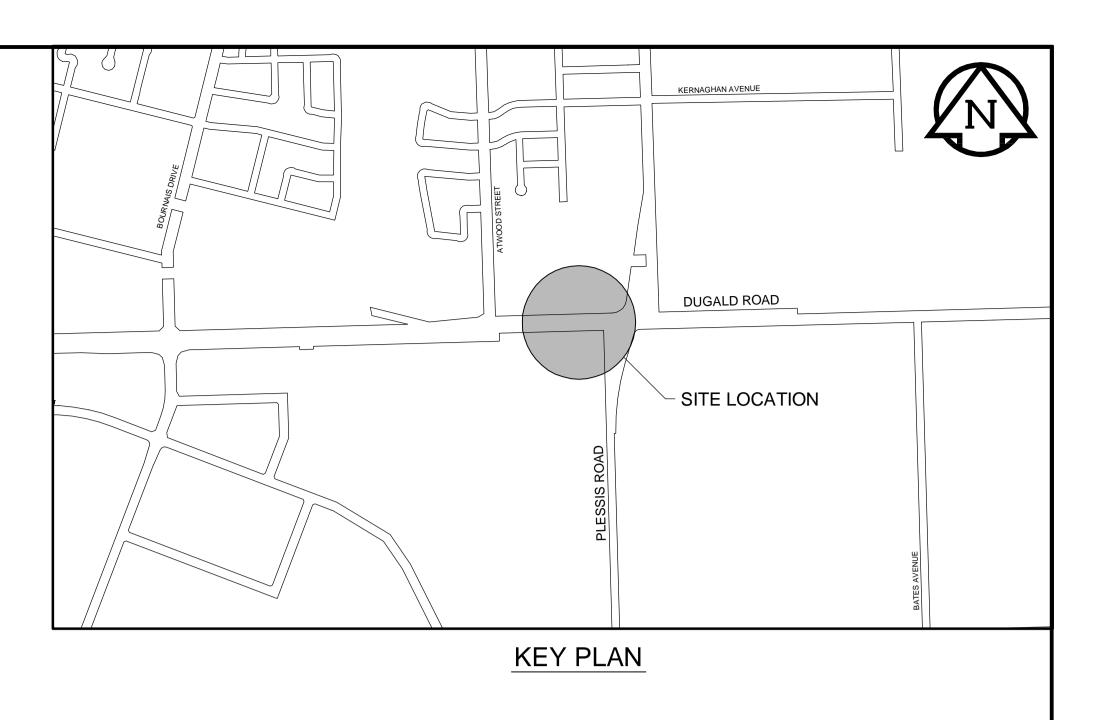
LOCATION PLAN



SITE ELEVATION - LOOKING EAST 1:50 (CRASH PROTECTION NOT SHOWN FOR CLARITY)



TEMPORARY STEEL TEMPLATE



FOR SETTING ANCHOR BOLTS 25 PROJECTION (MIN. 10 THICK) ABOVE TOP NUT **170 BOLT PROJECTION** 50 GROUT PAD ABOVE PILE -75 CLEAR COVER - GROUND SURFACE 610 DIA. CONCRETE PILE FOUNDATION 6-20M VERTICAL BARS GALV. ANCHOR BOLTS EA. C/W 2 NUTS & 2 PLATE WASHERS - 10M TIES AT 300 O.C. EXCEPT TOP SIX AT 150 1 75 CLEAR COVER ON TIES € CONC. PILE ELEVATION

## CONCRETE PILE FOUNDATION DETAIL

		B.M. ELEV.				''''''''''''''''''''''''''''''''''''''			
					DILLON CONSULTING			RECEIPTINGE OF MA	
				DESIGNED BY	CDW	CHECKED BY	SSR	WARD 2013/11/21 Member 24456	
Certificate of Authorization Dillon Consulting Limited (MB)					DRAWN BY	JLD	APPROVED BY	DPK	24456 PROFESSIO
No. 1789 Date: 2013/11/21			0040/44/04	TID	HOR. SCALE: AS N VERTICAL: DATE	AS NOTED	RELEASED FC CONSTRUCTION		CONSULTANT DRAWIN
	A NO.	ISSUED FOR TENDER REVISIONS	2013/11/21 DATE	TJP BY			DATE 2013/11/21		- 12-6576-CT-0064

## PILE CONSTRUCTION NOTES

## 1. REINFORCING STEEL

- CSA G30.18 400W
- VERTICAL BARS FULL LENGTH OF PILE
- HOT DIP GALVANIZED

## 2. ANCHORS BOLTS

- ASTM F1554 GR. 55 (380 MPa)
- 4-32 DIA. x 1500 LONG + 150 HOOK • EACH BOLT C/W 2 NUTS & 2 WASHERS
- TOP 300 THREADED
- HOT DIP GALVANIZED FULL LENGTH
- FOLLOWING INSTALLATION OF THE STEEL STRUCTURE, TIGHTEN THE LOWER LEVELING NUTS AND UPPER ANCHORING NUTS TO A SNUG-TIGHT CONDITION FOLLOWED BY 1/3 NUT ROTATION (+20°/-0°) OF THE UPPER ANCHOR NUTS.

3. ANCHOR BOLTS SHALL BE ALIGNED WITH A TEMPORARY STEEL TEMPLATE, PLACEMENT OF ANCHOR BOLTS AND CONCRETE WITHOUT THE TEMPLATE WILL NOT BE PERMITTED.

4. TOP OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE) AS FOLLOWS:

a) FOR BORED PILES, 1.0 m BELOW FINAL GRADE ii) FOR HYDRO-JET EXCAVATED PILES, 1.5 m BELOW FINAL GRADE

- 5. CONTRACTOR SHALL REMOVE THE BASE TEMPLATE, NUTS AND FORM, FOLLOWING A MINIMUM 24 HOUR CONCRETE CURING PERIOD.
- 6. 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) CLASS OF EXPOSURE: S-1
- ii) COMPRESSIVE STRENGTH AT 56 DAYS = 35 MPa
- iii) WATER/CEMENTING MATERIALS RATIO = 0.4
- iv) AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1-09 (4-7%)
- v) CEMENT TYPE HS OR HSb HIGH SULPHATE RESISTENT

