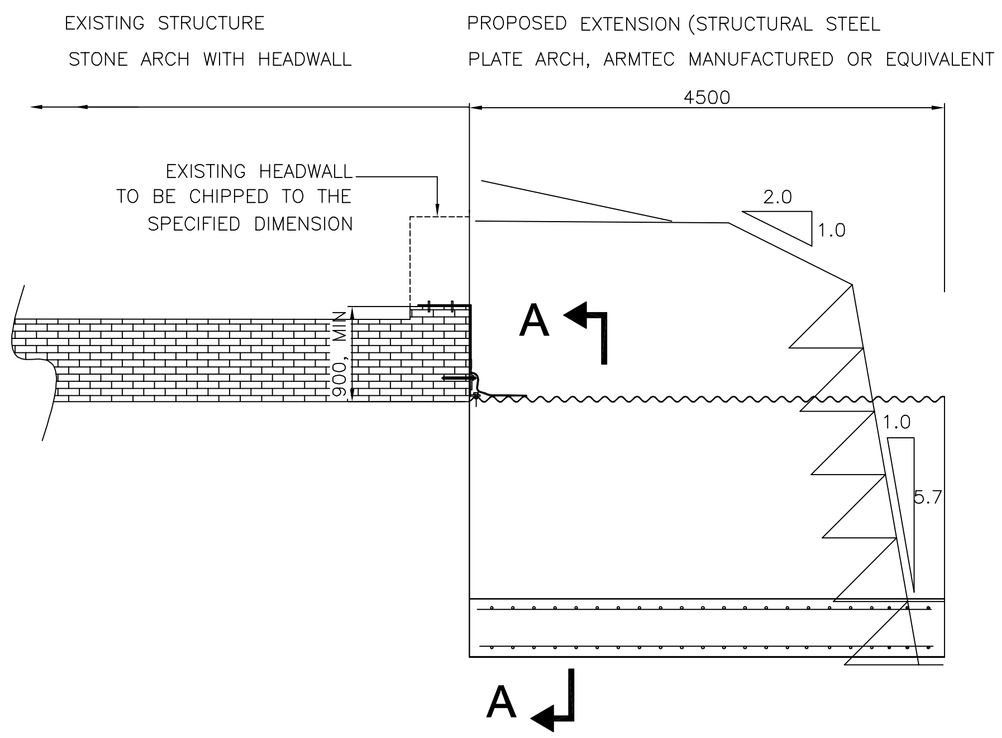
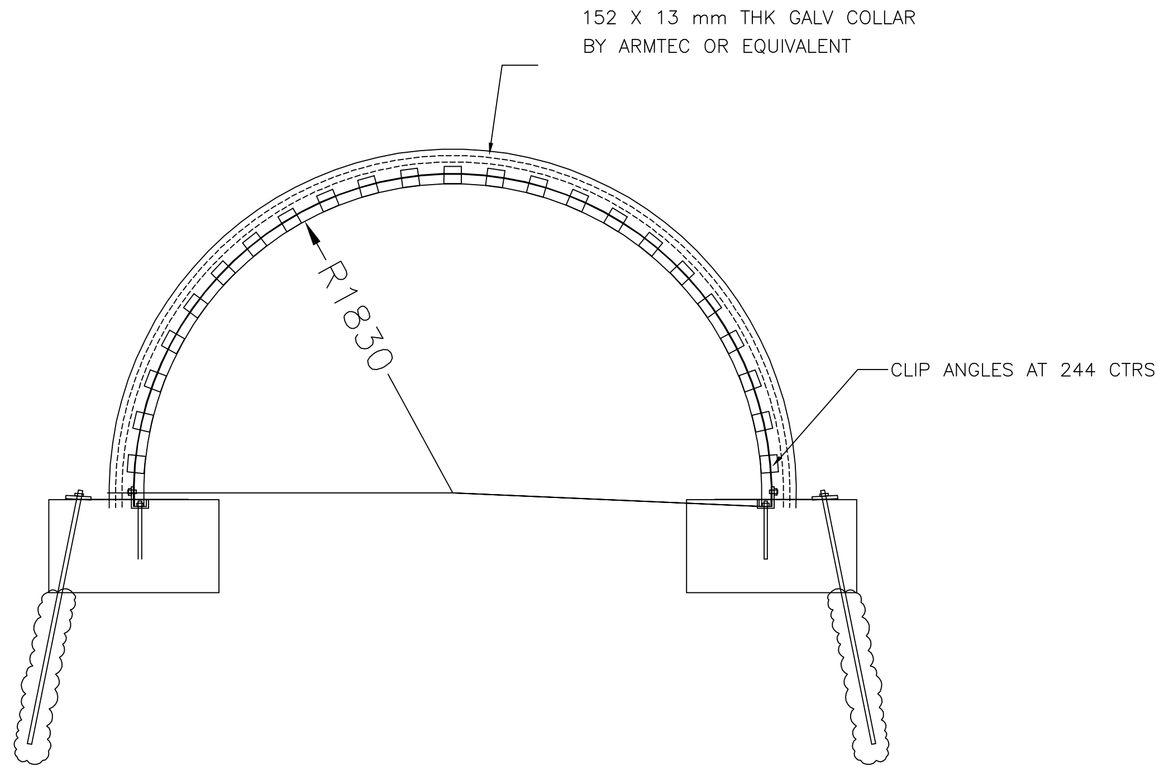


SP ARCH EXTENSION–ELEVATION

1:40



SECTION A–A, 24N MULTI–PLATE ARCH

1:25

BILL OF MATERIALS

SUPPLIED BY ARCH SUPPLIER:

1. 24N SPSS ARCH_____LENGTH 4500mm
2. CLIP ANGLE 102X102X13X102 LENGTH_____EA 23
3. BOLTS 3/4"X50m_____EA 23
4. GALV 76X13 SPACER PL._____EA 1
5. GALV 152X13 COLLAR_____EA 1
6. HILTI ANCHORS (20M, 300mm)_____EA 23

STRUCTURAL PLATE ARCH NOTES

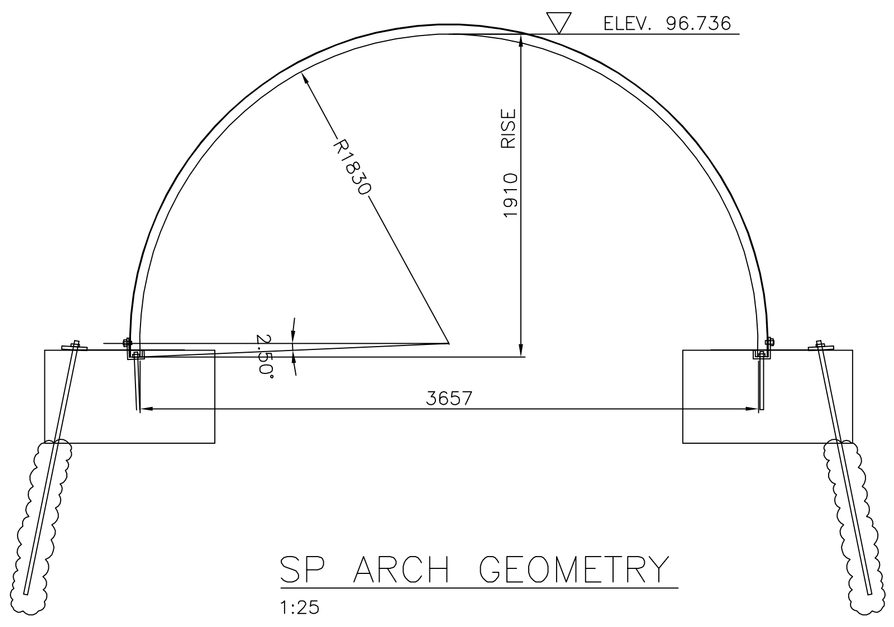
1. FOR GENERAL NOTES SEE DWG AA840–205.31–4.01
2. THE EXISTING CONCRETE (MASONRY) SURFACES IN CONTACT WITH THE NEW MULTI PLATE ARCH SHALL BE SMOOTHED AND CLEANED OF ALL CONTAMINANTS IN PREPARATION FOR CONNECTION TO MULTI PLATE ARCH.
3. DOWELS TO BE INSTALLED INTO EXISTING CONCRETE (MASONRY) FACE USING HILTI HY150 OR APPROVED EQUAL.
4. MINIMUM GAUGE_____8GA
5. SP ARCH TO BE DESIGNED BY A FABRICATOR
6. DESIGN AND SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
7. GALVANIZING SHALL NOT BE LESS THAN 610G/m3 OF SURFACE (TOTAL BOTH SIDES)
8. INSTALLATION OF SP ARCH BACKFILL AS PER MANUFACTURER'S INSTRUCTIONS

24N MULTI–PLATE ARCH

(ARMTEC OR SIMILAR)

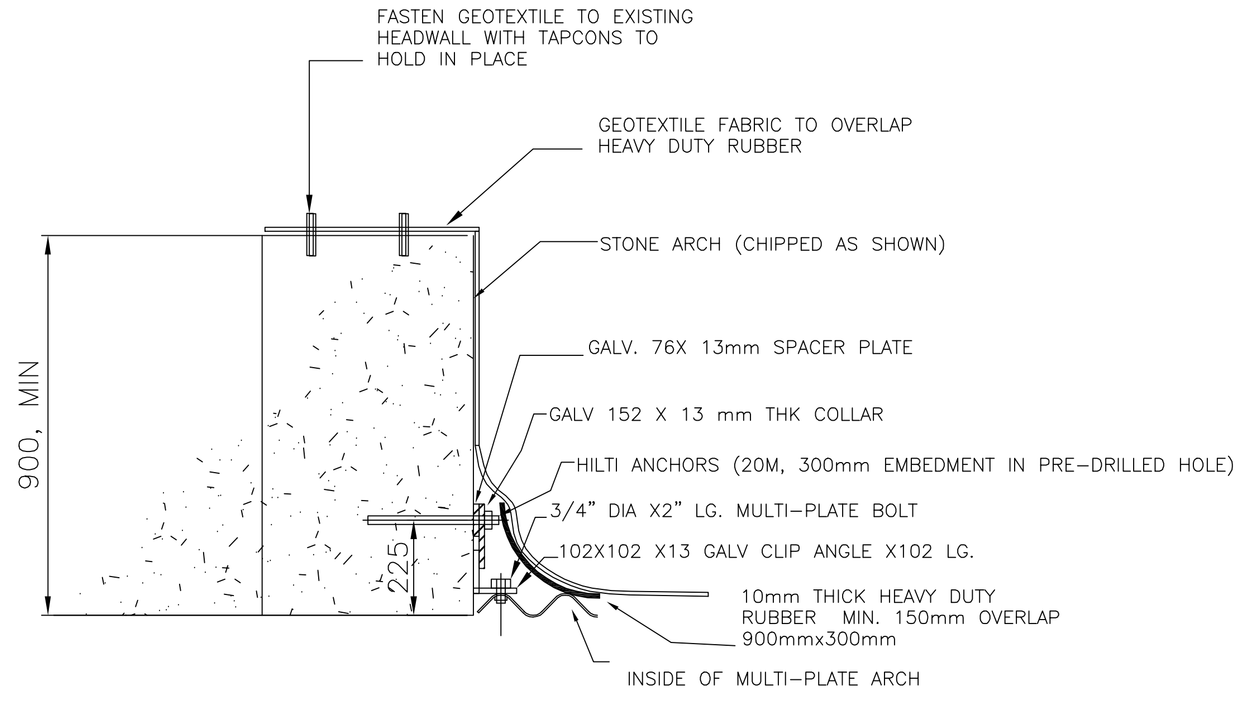
3660 SPANX1910 RISE

END AREA =5.52 m2



SP ARCH GEOMETRY

1:25



SP ARCH CONNECTION TO THE EXISTING ARCH

1:10

SENIOR STRUCTURAL ENGINEER

No.	Date	Revision	By/Par
C	MAY 16, 2011	GENERAL REVISION	
A	DEC 14,2010	GENERAL REVISION	
	JAN 15, 2010	ISSUED FOR CONSTRUCTION	
	SEPT 18, 2009	ISSUED FOR TENDER	

Division EASTERN CANADA | Sub–division KINGSTON | Mile Mille 205.31

STONE ARCH CULVERT EXTENSION

NEAR MOHAWK, ONTARIO

CULVERT NORTH EXTENSION DETAILS

HEADWALL/SP ARCH DETAILS

Drawn Dessin DGT | Designed Conception DGT | Checked Verification | Scale Echelle AS NOTED | Date JAN 15, 2010

Office of Chief Engineer
Bureau de l'Ingénieur en chef

File 205.31 KINGSTON | Drawing Number Dessin Numero AA840-205.31-4.04 | C

LICENSED PROFESSIONAL ENGINEER D. TODOROVIC 100168040 PROVINCE OF ONTARIO

SEVERKO