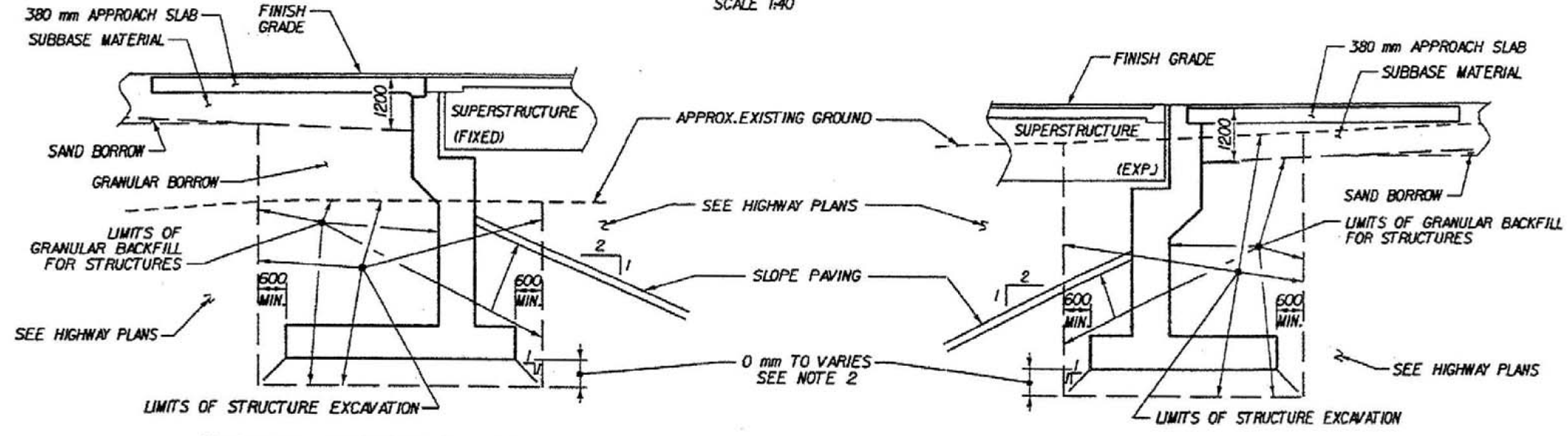


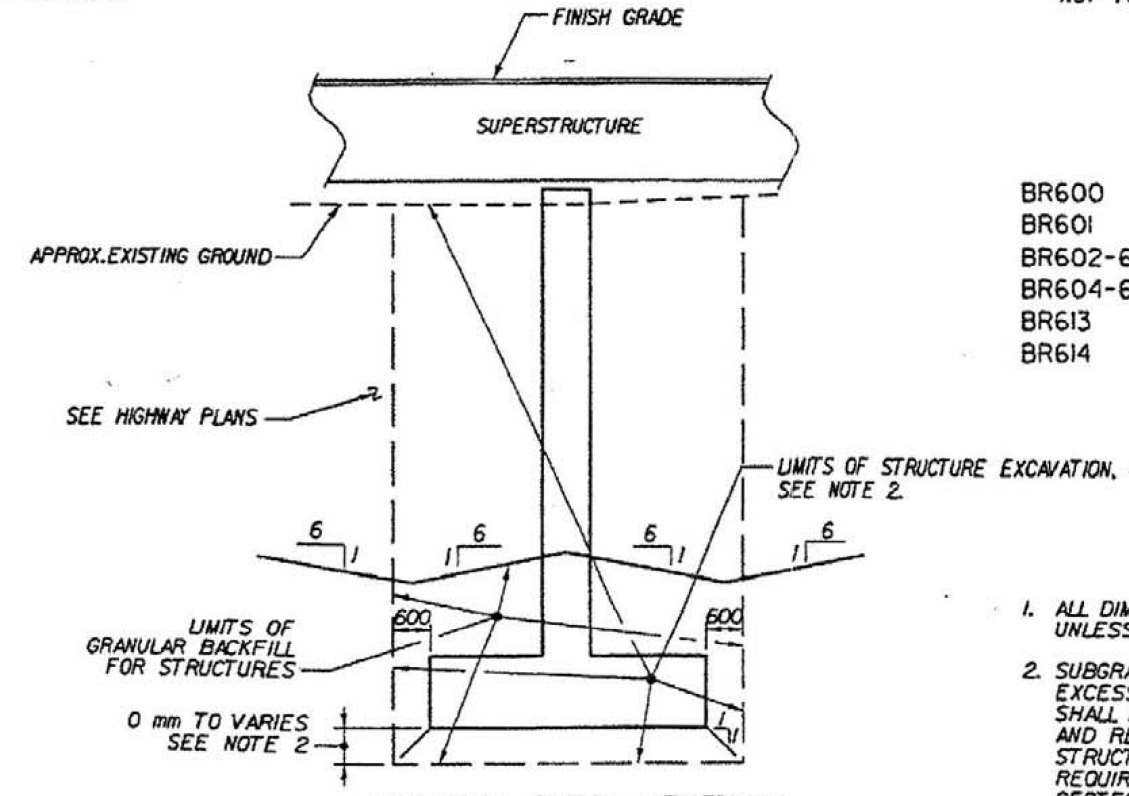
NOTE: ALL DIMENSIONS ARE RADIAL AND CONCENTRIC WITH @ EAST ROAD.

BRIDGE TYPICAL SECTION  
SCALE 1:40



TYPICAL ABUTMENT 1 SECTION  
NOT TO SCALE

TYPICAL ABUTMENT 2 SECTION  
NOT TO SCALE



TYPICAL PIER SECTION  
NOT TO SCALE

INDEX OF SHEETS

- BR600 PRELIMINARY INFORMATION SHEET
- BR601 PLAN AND ELEVATION
- BR602-603 BORING INFORMATION SHEETS
- BR604-612 BORING LOGS
- BR613 VT ROUTE 279 PROFILES
- BR614 PIER ELEVATION

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
2. SUBGRADE AREAS BENEATH FOOTINGS EXHIBITING EXCESSIVE WEAVING OR SOFT OR UNSTABLE SOILS SHALL BE REMOVED AS STRUCTURE EXCAVATION AND REPLACED WITH GRANULAR BACKFILL FOR STRUCTURES. ADDITIONAL FOUNDATION CONSTRUCTION REQUIREMENTS ARE OBTAINED IN SECTION 8.0 OF THE GEOTECHNICAL ENGINEERING REPORT, DATED SEPTEMBER 2000, BY GZA GEOENVIRONMENTAL, INC.

FINAL HYDRAULICS

HYDROLOGIC DATA

DRAINAGE AREA: \_\_\_\_\_  
 CHARACTER OF TERRAIN: \_\_\_\_\_  
 CHARACTER & TYPE OF STREAM: \_\_\_\_\_  
 NATURE OF STREAMBED: \_\_\_\_\_  
 02.33= \_\_\_\_\_ cms      050= \_\_\_\_\_ cms  
 010= \_\_\_\_\_ cms      0700= \_\_\_\_\_ cms  
 025= \_\_\_\_\_ cms      0500= \_\_\_\_\_ cms  
 DATE OF FLOOD OF RECORD: \_\_\_\_\_  
 WATER SURFACE ELEV. ESTIMATED DISCHARGE: \_\_\_\_\_  
 NATURAL STREAM VELOCITY @ 050 = \_\_\_\_\_ mps  
 ICE CONDITIONS: \_\_\_\_\_ DEBRIS: \_\_\_\_\_  
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY?  
 IS ORDINARY RISE RAPID?  
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?  
 IF YES, DESCRIBE. \_\_\_\_\_  
 WATERSHED STORAGE \_\_\_\_\_ HEADWATERS \_\_\_\_\_ UNIFORM THROUGHOUT WATERSHED  
 \_\_\_\_\_

STRUCTURE TYPE: \_\_\_\_\_  
 CLEAR SPAN (NORMAL TO STREAM) \_\_\_\_\_  
 VERTICAL CLEARANCE ABOVE WATERWAY OF FULL OPENING \_\_\_\_\_  
 WATER SURFACE ELEV. \_\_\_\_\_  
 IS THE ROADWAY ON RELIEF ELEVATION? \_\_\_\_\_  
 AVERAGE LOW ELEVATION \_\_\_\_\_  
 VERTICAL CLEARANCE ABOVE WATERWAY OF FULL OPENING \_\_\_\_\_  
 SCOUR Channel = \_\_\_\_\_  
 REQUIRED CHANNEL \_\_\_\_\_

EXISTING STRUCTURE

STRUCTURE TYPE: N/A      YEAR BUILT: N/A  
 CLEAR SPAN (NORMAL TO STREAM): N/A  
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A  
 WATERWAY OF FULL OPENING: N/A  
 DISPOSITION OF STRUCTURE: N/A  
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: N/A  
 WATER SURFACE ELEV. @ 02.33= \_\_\_\_\_ VELOCITY= \_\_\_\_\_ mps  
 010= \_\_\_\_\_ mps  
 025= \_\_\_\_\_ mps  
 050= \_\_\_\_\_ mps  
 0100= \_\_\_\_\_ mps  
 LONG TERM STREAM BED CHANGES: N/A

TEMP

IS THE ROADWAY OVERTOPPED BELOW THE 0100? N/A      FREQUENCY: N/A  
 RELIEF ELEVATION: N/A      DISCHARGE OVER ROAD @ 0100: N/A  
 UPSTREAM STRUCTURE: TOWN: N/A      DISTANCE: \_\_\_\_\_  
 HIGHWAY NO.: \_\_\_\_\_      STRUCTURE NO.: \_\_\_\_\_  
 STRUCTURE TYPE: \_\_\_\_\_  
 CLEAR SPAN: \_\_\_\_\_      CLEAR HEIGHT: \_\_\_\_\_  
 YEAR BUILT: \_\_\_\_\_      FULL WATERWAY: \_\_\_\_\_  
 DOWNSTREAM STRUCTURE: TOWN: N/A      DISTANCE: \_\_\_\_\_  
 HIGHWAY NO.: \_\_\_\_\_      STRUCTURE NO.: \_\_\_\_\_  
 STRUCTURE TYPE: \_\_\_\_\_  
 CLEAR SPAN: \_\_\_\_\_      CLEAR HEIGHT: \_\_\_\_\_  
 YEAR BUILT: \_\_\_\_\_      FULL WATERWAY: \_\_\_\_\_  
 (COMPLETE INFORMATION WILL BE PROVIDED ON FINAL PLANS)

DESIGN CRITERIA:

1. DESIGN LIVE LOAD AASHTO MS-22.5
2. DESIGN SPAN 38.9 m + 32.9 m = 71.8 m
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 383 kPa (Abut., Pier & Abut.)
4. ALLOWABLE LOAD FOR PILING N/A      TYPE N/A      ESTIMATE
5. STRUCTURAL STEEL AASHTO GRADE M270M GR345W
6. REINFORCING STEEL GRADE 420
7. CONCRETE, HIGH PERFORMANCE CLASS A  $f_c = 30 \text{ MPa}$   
 CONCRETE, HIGH PERFORMANCE CLASS B  $f_c = 25 \text{ MPa}$

TRAFFIC MAINTENANCE:

1. IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE NO ON EXISTING STRUCTURE
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY N/A      TRAFFIC CONTROL N/A
- MINIMUM CLEAR SPAN (NORMAL TO STREAM): N/A      VERTICAL CLEARANCE ABOVE WATERWAY AT FULL OPENING: N/A
- ARE SIDEWALKS REQUIRED? N/A      IF SO, ON WHAT SIDE? N/A

LOAD RATING (TONS)

LOADING LEVELS (LOAD FACTOR)	TRUCK				
	H	HS	3S2	6 AXLE	3A. STR.   4A. STR.   5A. SEMI
INVENTORY A = 2.17					
POSTED A = 1.55					
OPERATING A = 1.30					

ST. AGEN

Town Of \_\_\_\_\_  
Highway \_\_\_\_\_

Designed By \_\_\_\_\_  
Checked By \_\_\_\_\_  
M. CHENEY  
PROJECT

DH CAD Dr. \_\_\_\_\_  
Bridge She \_\_\_\_\_

