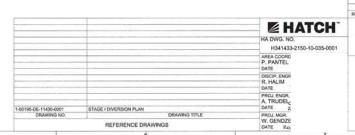
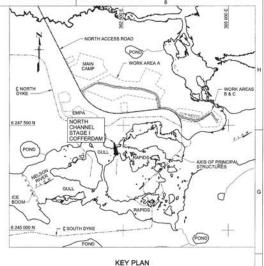


CENTERLINE ALIGNMENT GEOMETRY REFERENCE POINTS			
NO.	NORTHING	EASTING	
NC-01	6 246 789.725	362 367.194	
NC-02	6 247 096.790	362 277.134	

FROM	то	ROCKFILL PRODUCT
STA NC 0+800	STA NC 0+600	CLASS C1
STA NC 0+600	STA NC 0+530	CLASS C2
STA NC 0+530	STA NC 0+500	CLASS C1

THE STATIONING OF THE PLACEMENT OF THE ROCKFILL PRODUCT IS PRELIMINARY. IT IS THE CONTRACTORS RESPONSIBILITY OF ASSESS THE LOCAL FLOW CONDITIONS AND TO ADJUST THE STATIONING FOR THE ROCKFILL PRODUC DEPENDING POOR NUTRE FLOWS ATTIME OF CONSTRUCTION, AS ACCEPTED BY THE PURCHASER'S REPRESENTATIVE.





## GROUND SURFACE CONTOUR (EL 151) REFERENCE POINT STATIONING ALONG NORTH CHANNEL STAGE I COFFERDAM CENTERLINE STA NC 0+600 SLOPE DOWN

(A) IMPERVIOUS FILL (B) GRANULAR TRANSITION FILL

0 ROCKFILL

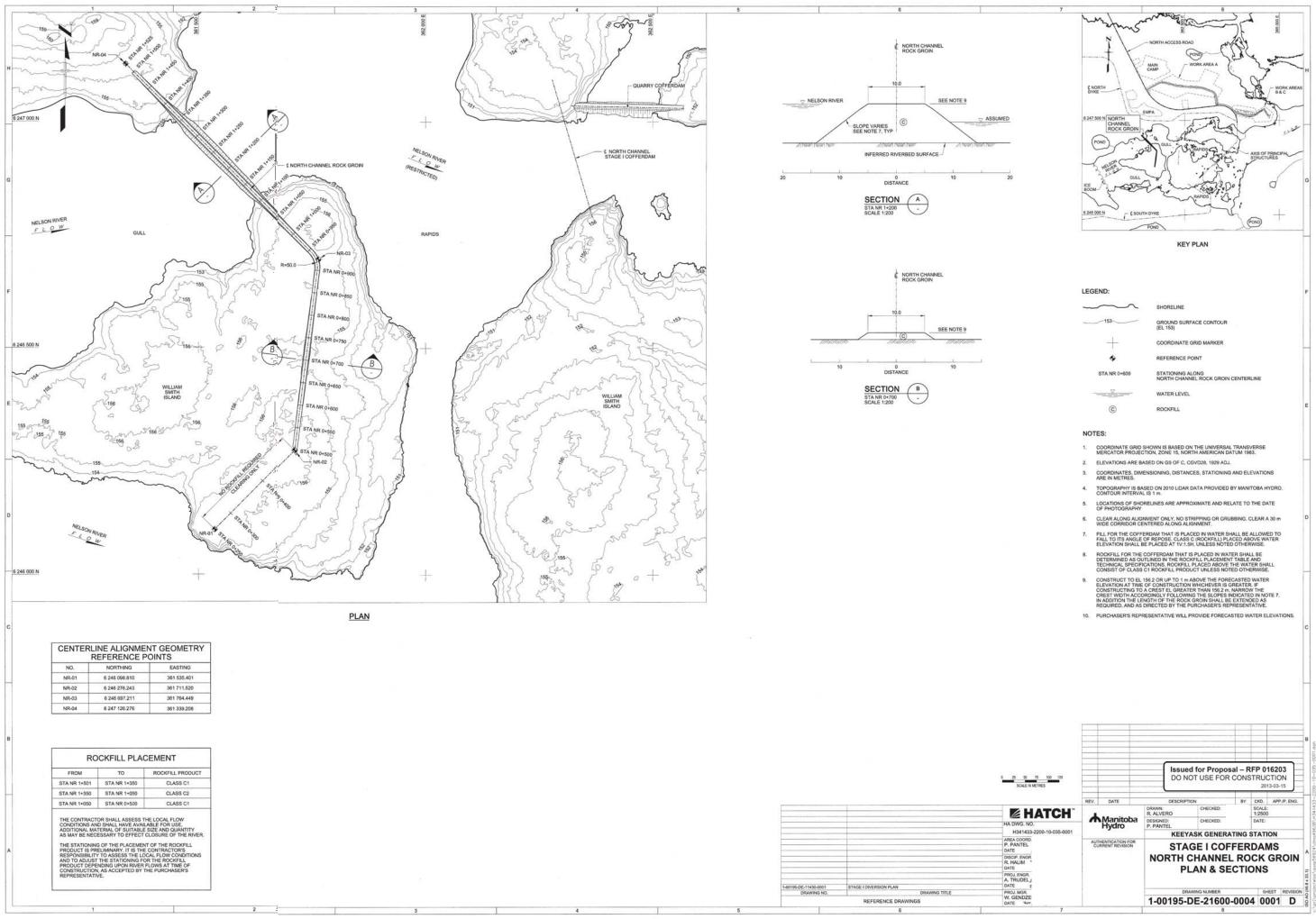
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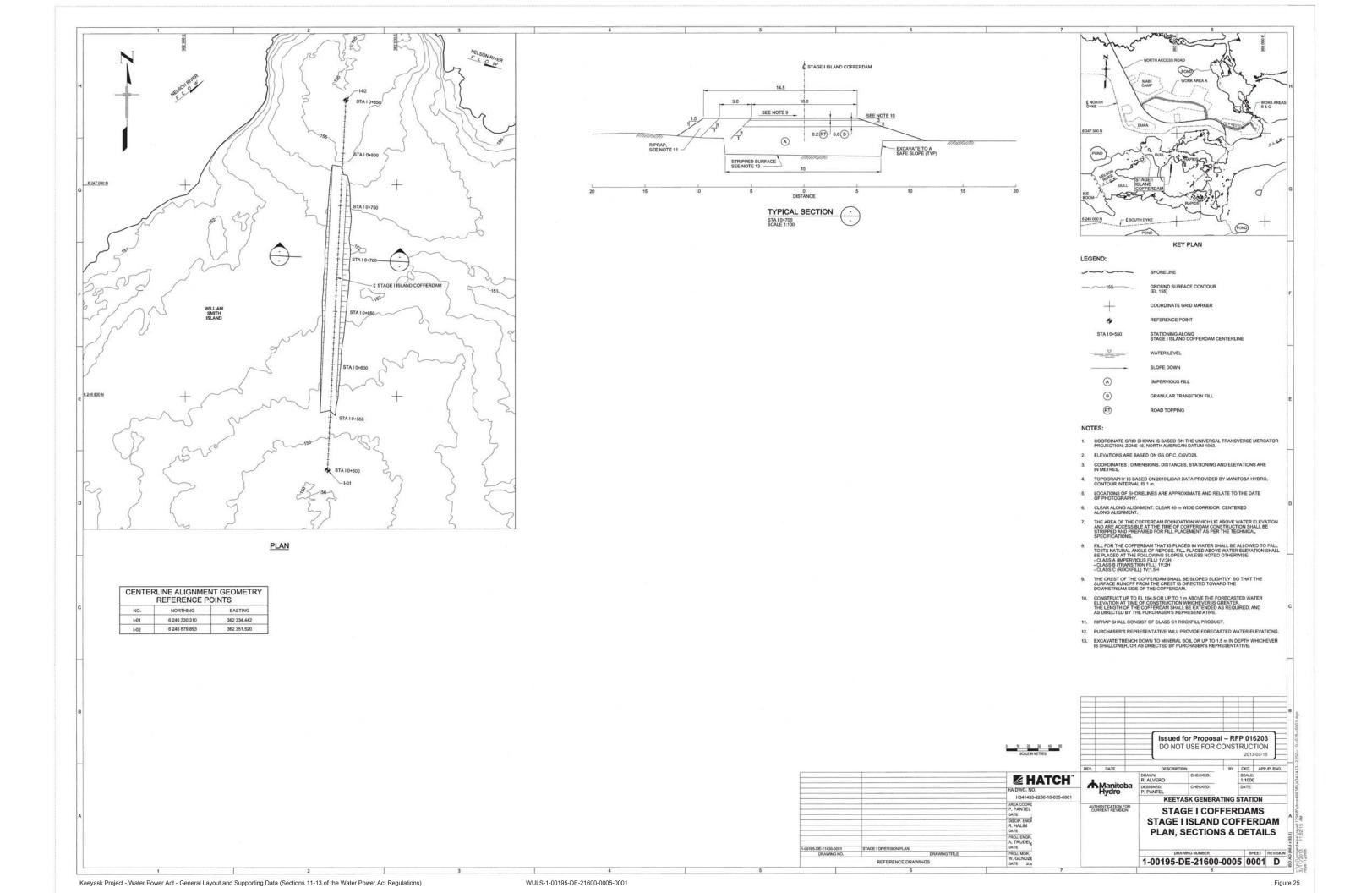
## NOTES:

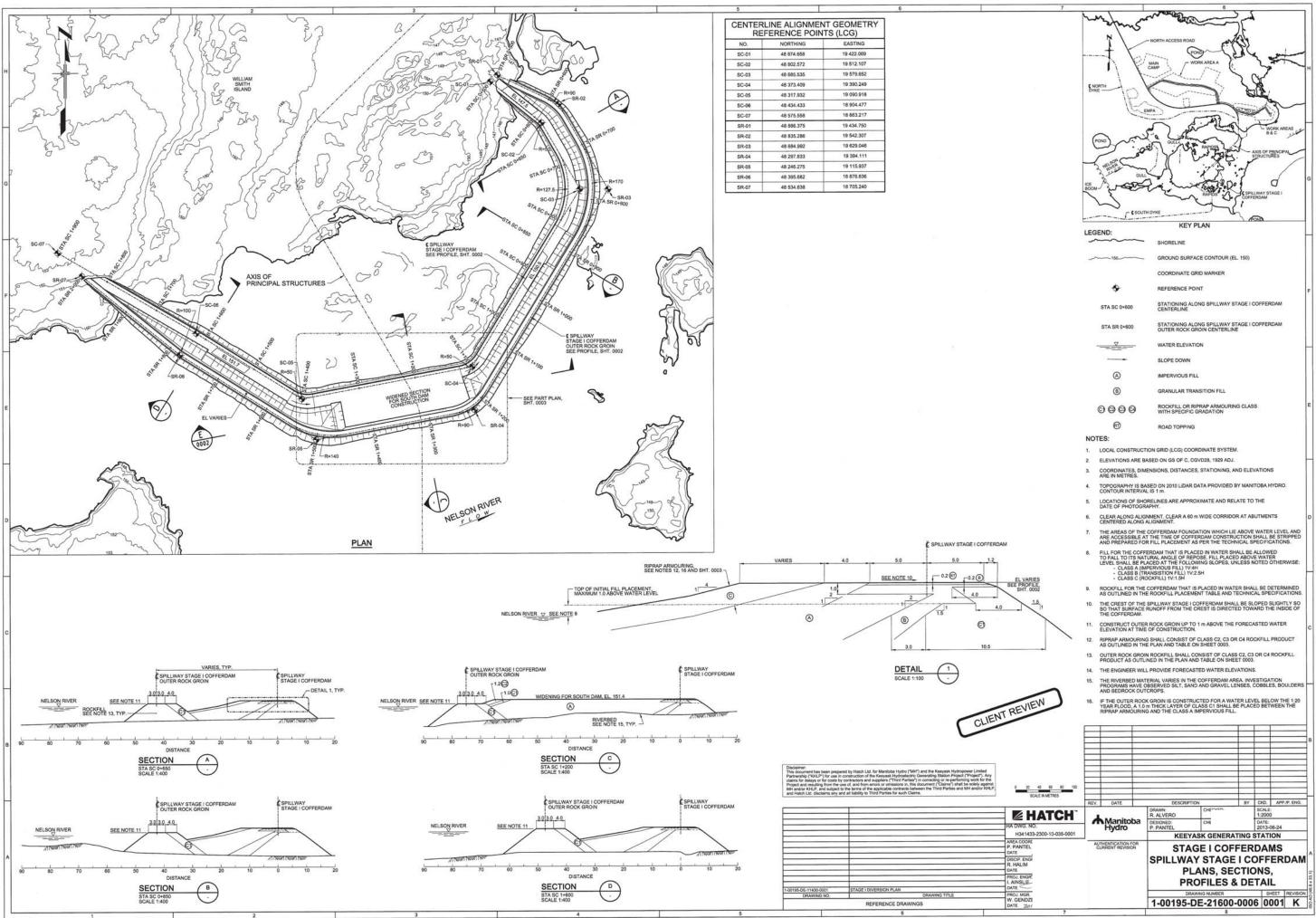
LEGEND:

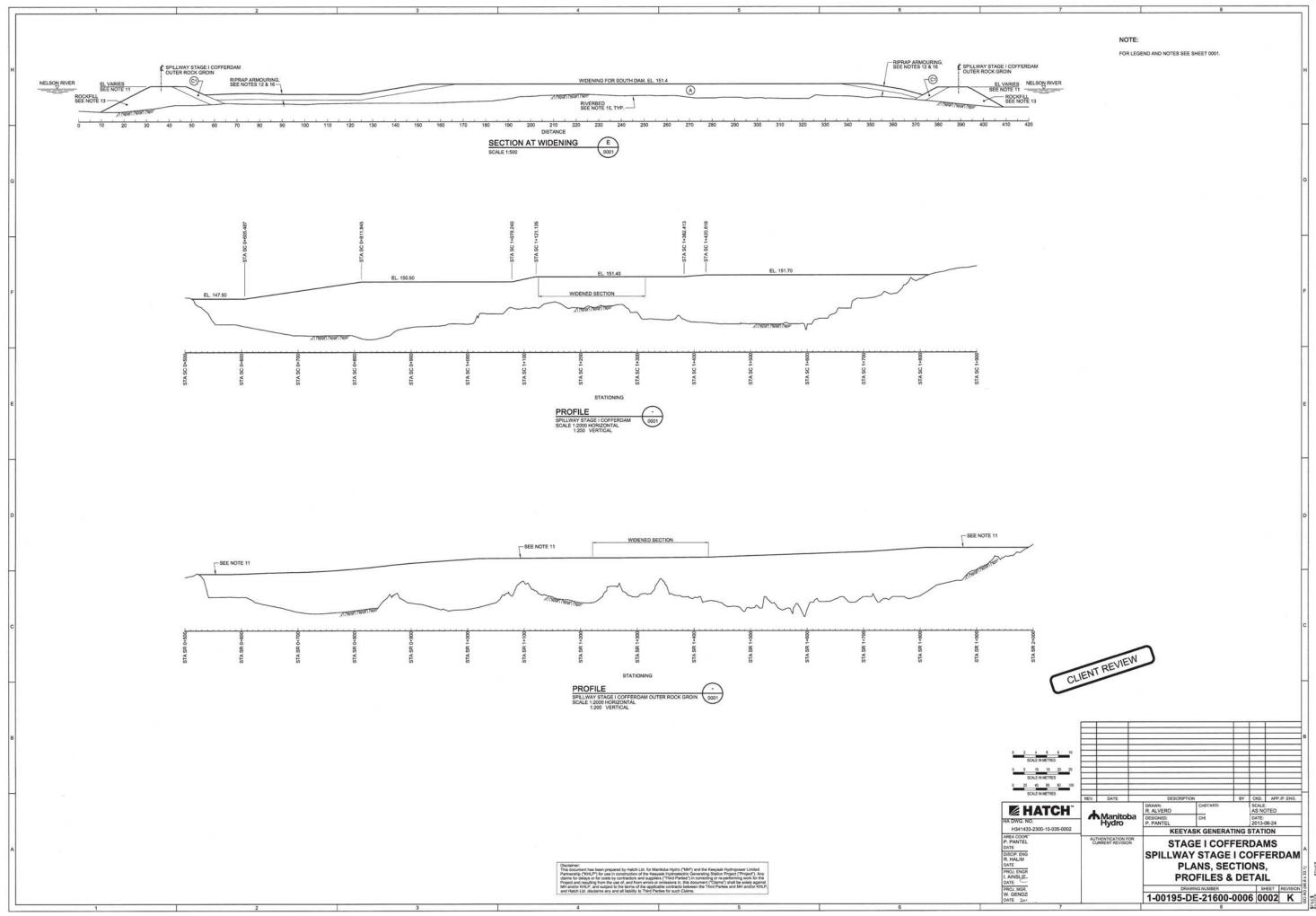
- COORDINATE GRID SHOWN IS BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 15, NORTH AMERICAN DATUM 1983.
- 2. ELEVATIONS ARE BASED ON GS OF C, CGVD28, 1929 ADJ.
- COORDINATES, DIMENSIONS, DISTANCES, STATIONING, AND ELEVATIONS ARE IN METRES.
- TOPOGRAPHY IS BASED ON 2010 LIDAR DATA PROVIDED BY MANITOBA HYDRO. CONTOUR INTERVAL IS 1 m.
- LOCATIONS OF SHORELINES ARE APPROXIMATE AND RELATE TO THE DATE OF PHOTOGRAPHY.
- CLEAR ALONG ALIGNMENT. CLEAR A 40 m WIDE CORRIDOR AT ABUTMENTS CENTERED ALONG ALIGNMENT.
- THE AREAS OF THE COFFERDAM FOUNDATION WHICH LIE ABOVE WATER LEVATION AND ARE ACCESSIBLE AT THE TIME OF COFFERDAM CONSTRUCTION SHALL BE STRIPPED AND PREPARED FOR FILL PLACEMENT AS PER THE TECHNICAL SPECIFICATIONS.
- FILL FOR THE COFFERDAM THAT IS PLACED IN WATER SHALL BE: ALLOWED TO FALL
  TO ITS NATURAL ANGLE OF REPOSE, FILL PLACED ABOVE WATER ELEVATION SHALL
  BE PLACED AT THE FOLLOWING SLOPES, UNLESS NOTED OTHERWISE:
   CLASS A (IMPERVIOUS FILL) 1V:0H
   CLASS B (TRANSISTION FILL) 1V:2H
   CLASS C (ROCK FILL) 1V:1.5H
- ROCKFILL FOR THE COFFERDAM THAT IS PLACED IN WATER SHALL BE DETERMINED AS OUTLINED IN THE ROCKFILL PLACEMENT TABLE AND TECHNICAL SPECIFICATIONS. ROCKFILL PLACED ABOVE THE WATER SHALL CONSIST OF CLASS C1 ROCKFILL PRODUCT UNLESS NOTED OTHERWISE.
- THE CREST OF THE COFFERDAM SHALL BE SLOPED SLIGHTLY SO THAT THE SURFACE RUNOFF FROM THE CREST IS DIRECTED TOWARD THE DOWNSTREAM SIDE OF THE COFFERDAM.
- CONSTRUCT UP TO EL 154.5 OR UP TO 1 m ABOVE THE FORECASTED WATER ELEVATION AT TIME OF CONSTRUCTION WHICHEVER IS GREATER. THE LENGTH OF THE COFFERDAM SHALL BE EXTENDED AS REQUIRED, AND AS DIRECTED BY THE PURCHASER'S REPRESENTATIVE.
- RIPRAP SHALL CONSIST OF CLASS C1 ROCKFILL PRODUCT. RIPRAP SHALL BE PLACED DOWN TO 1 in BELOW THE FORECASTED WATER LEVEL, OR AS DIRECTED BY THE PURCHASER'S REPRESENTATIVE.
- 13. PURCHASER'S REPRESENTATIVE WILL PROVIDE FORECASTED WATER ELEVATIONS.

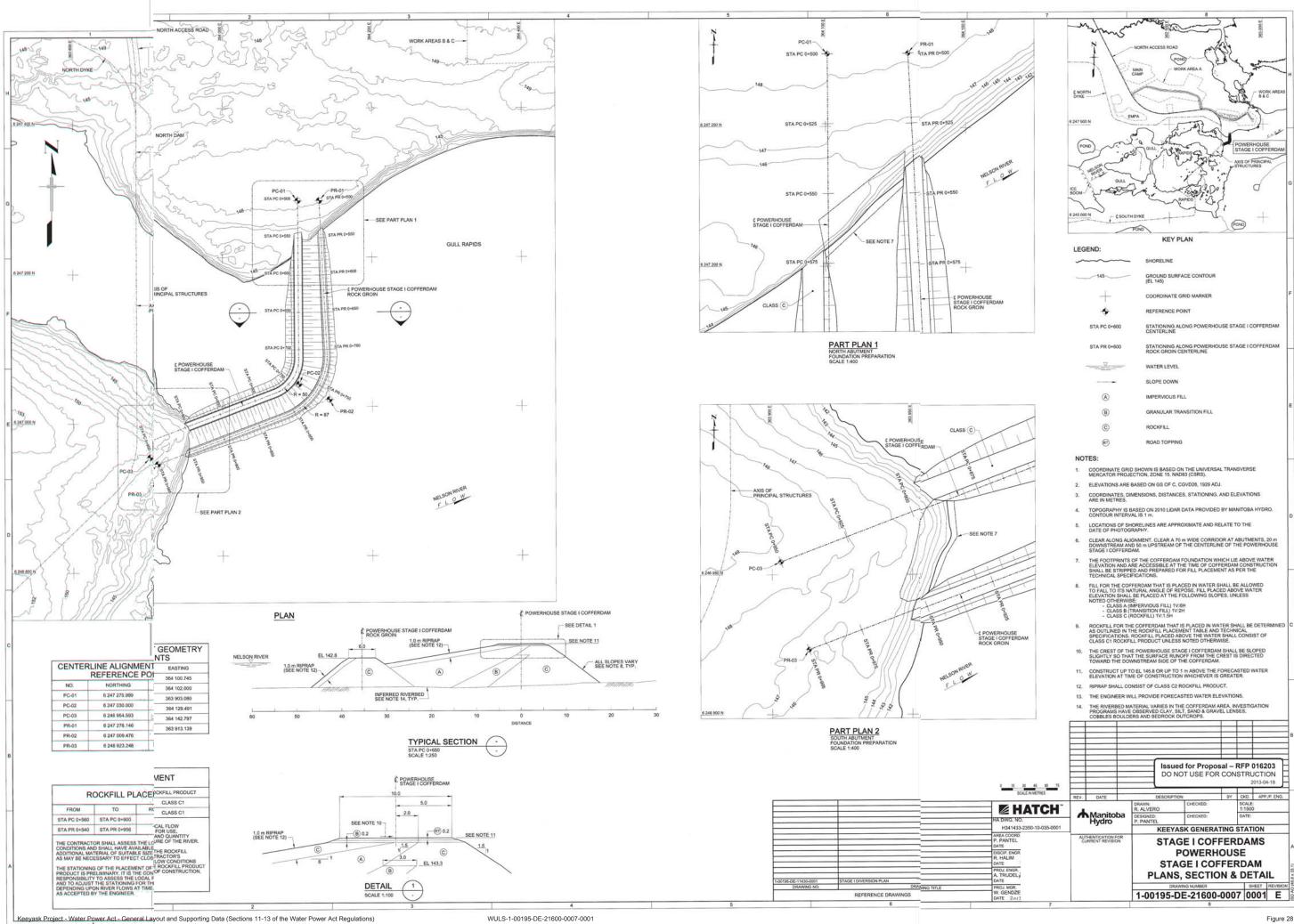


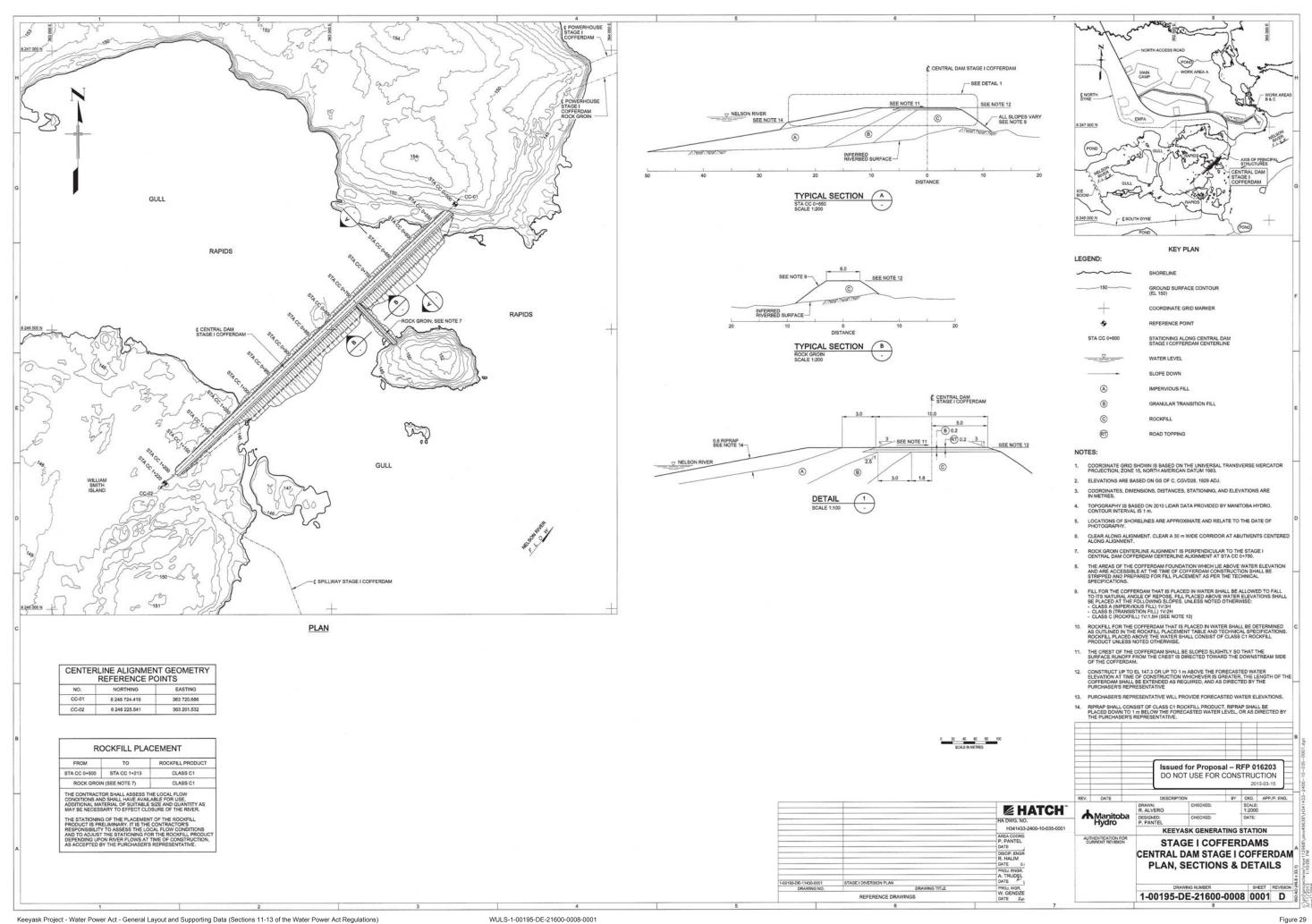


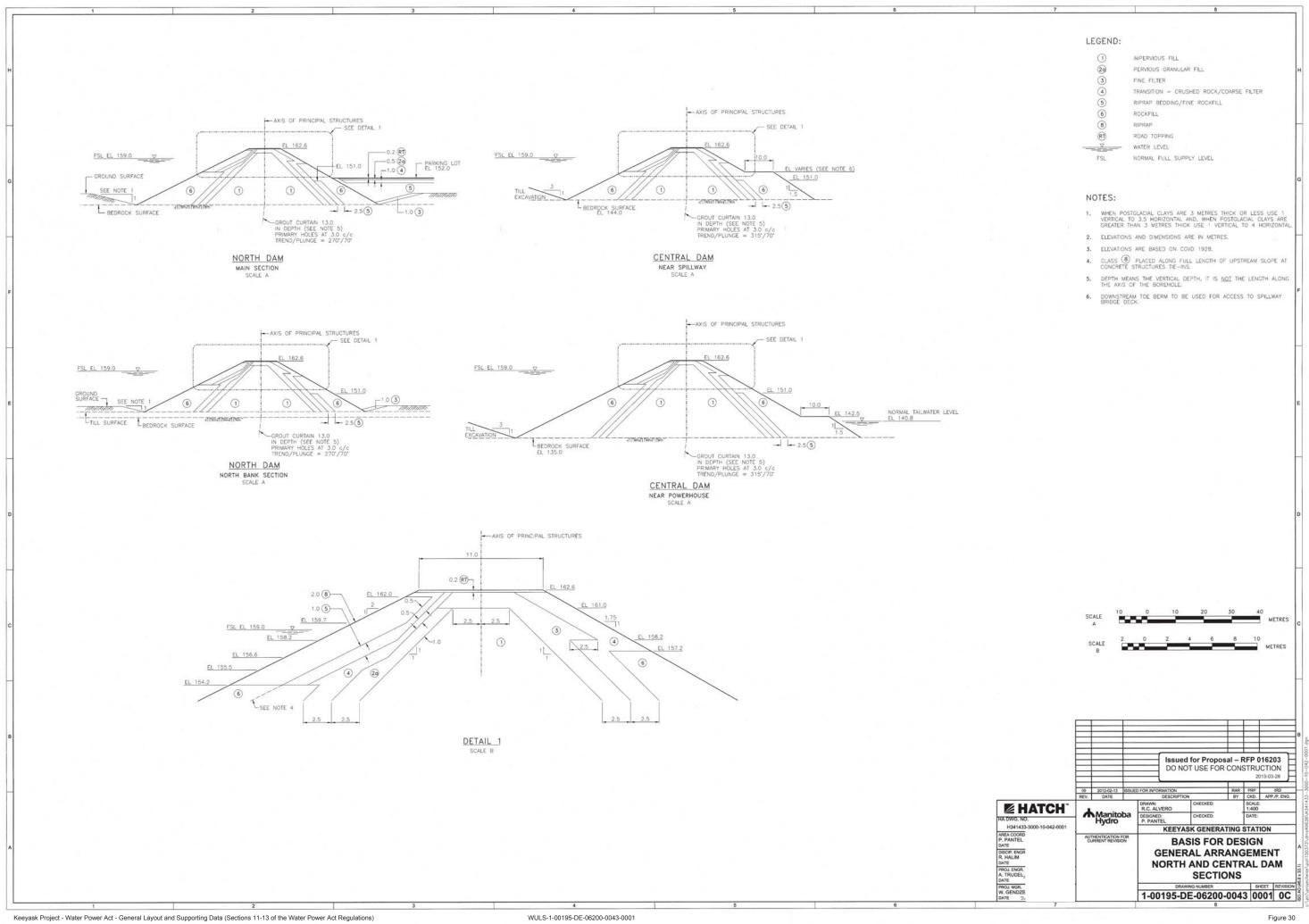


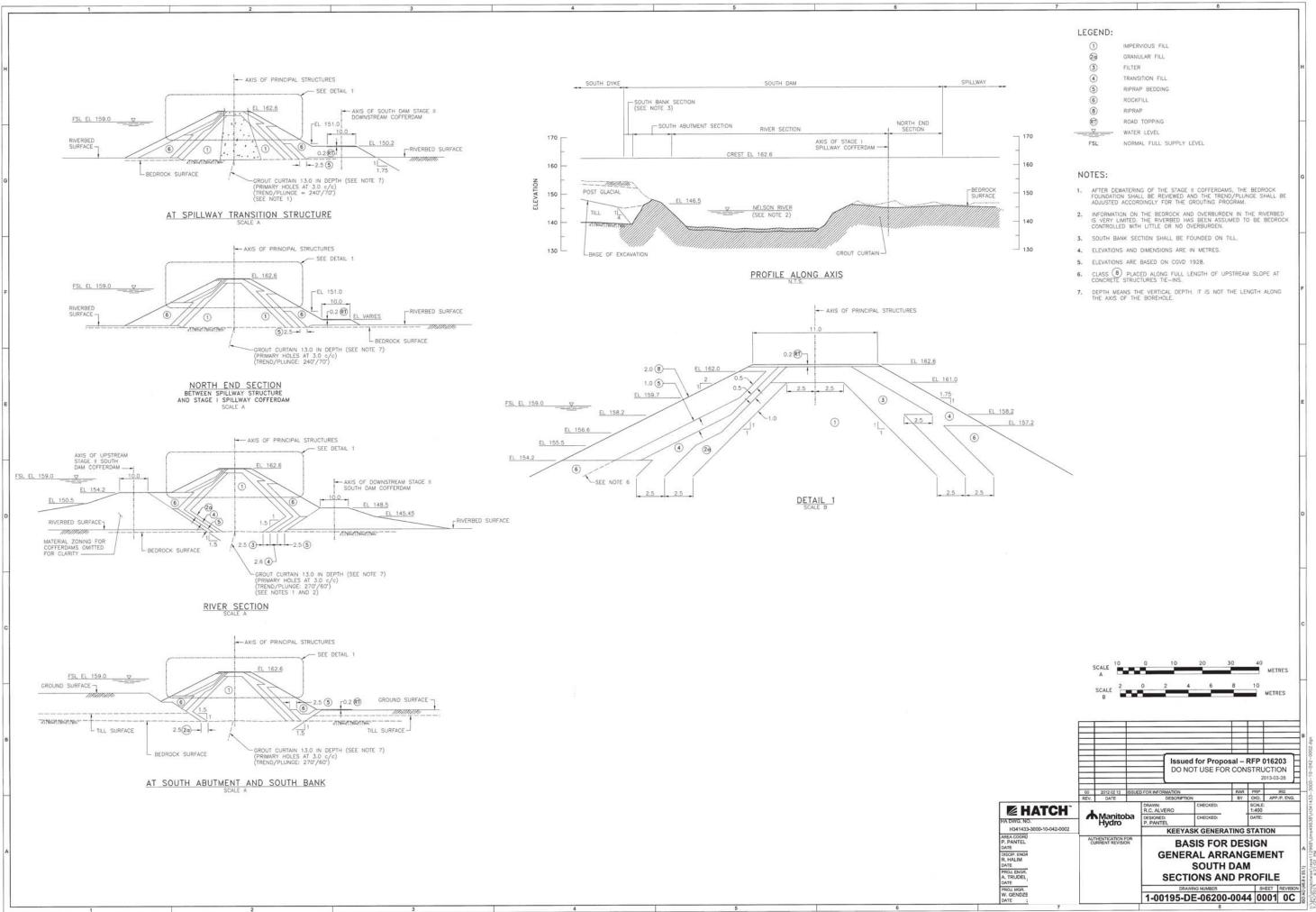


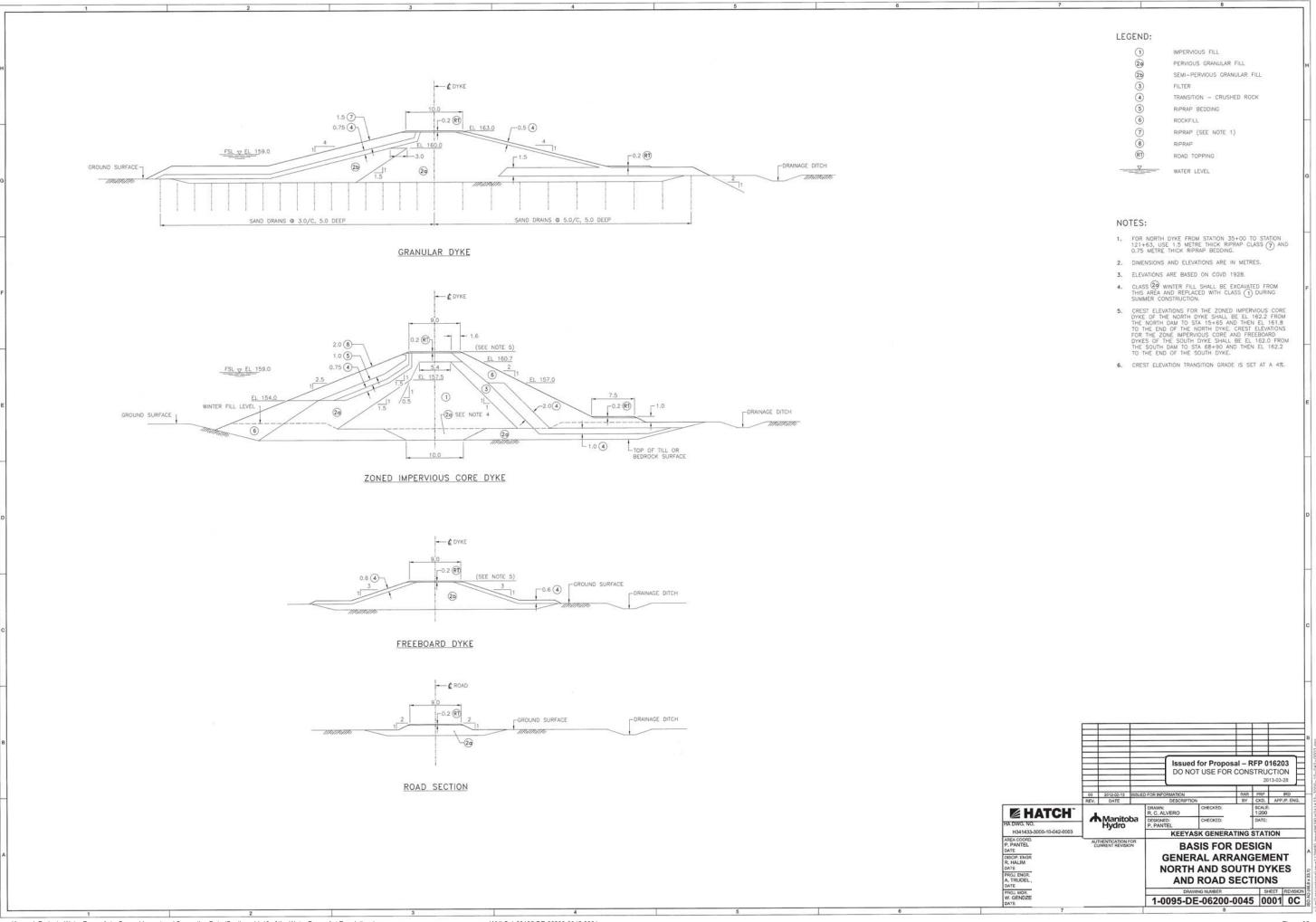


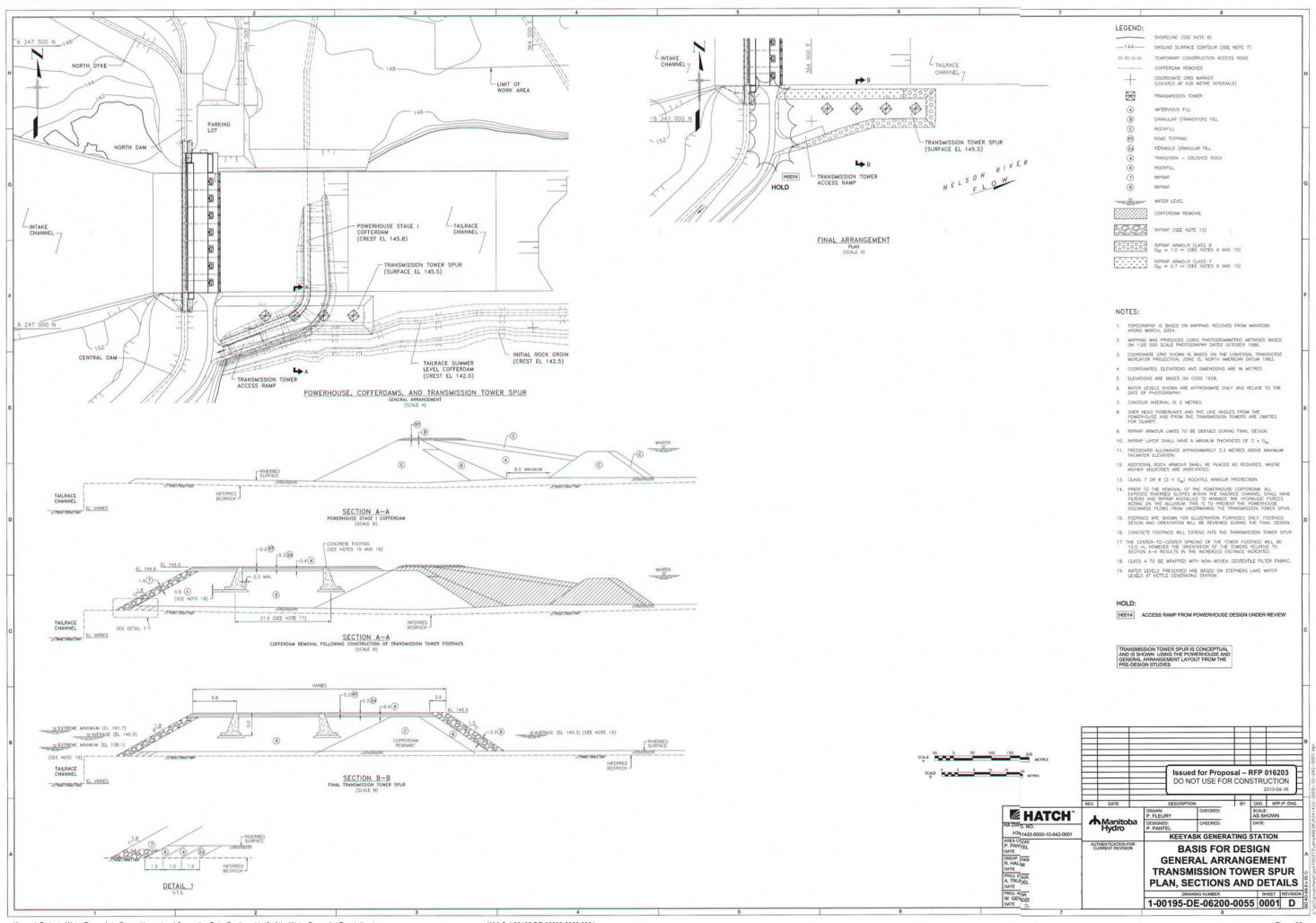


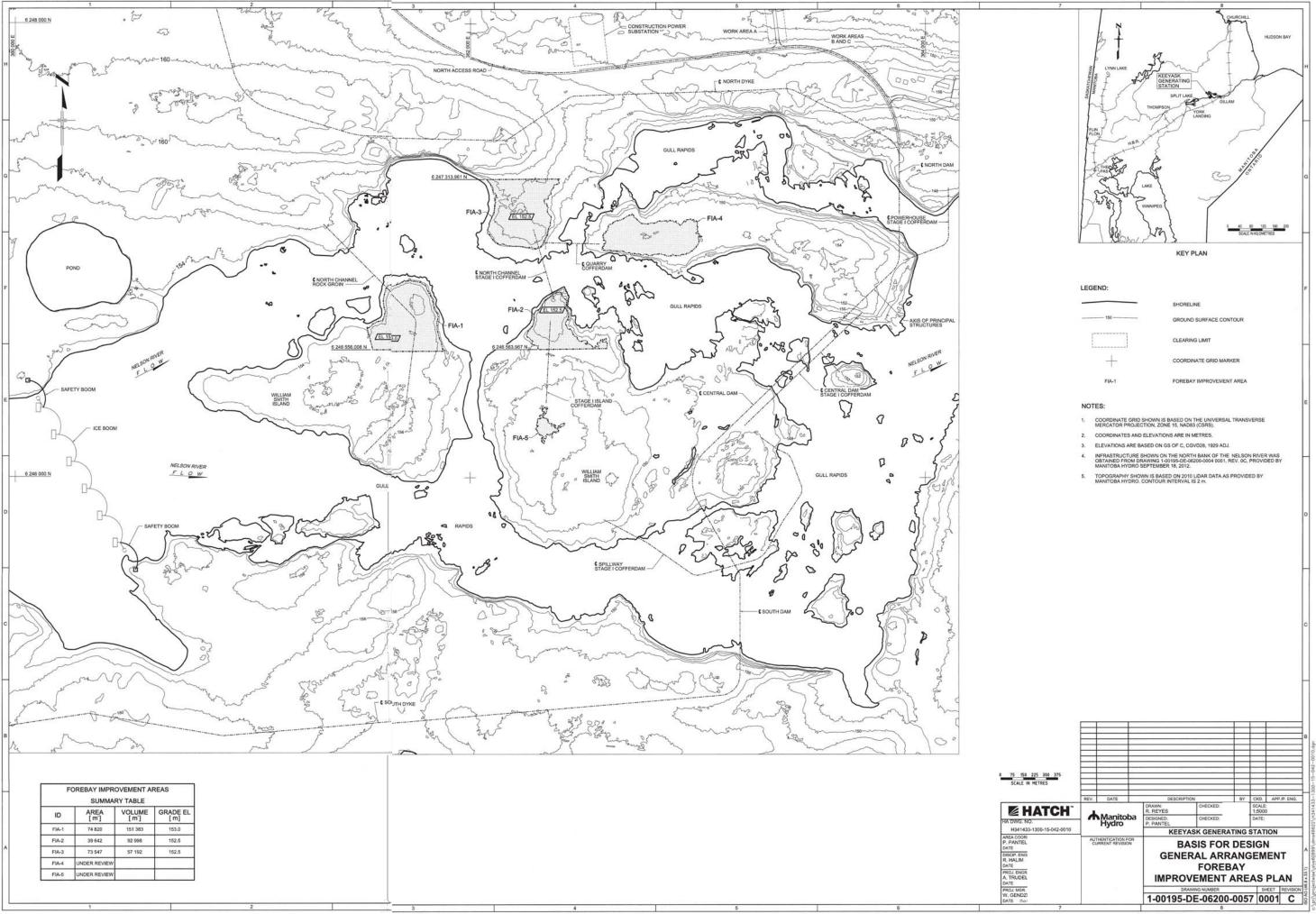


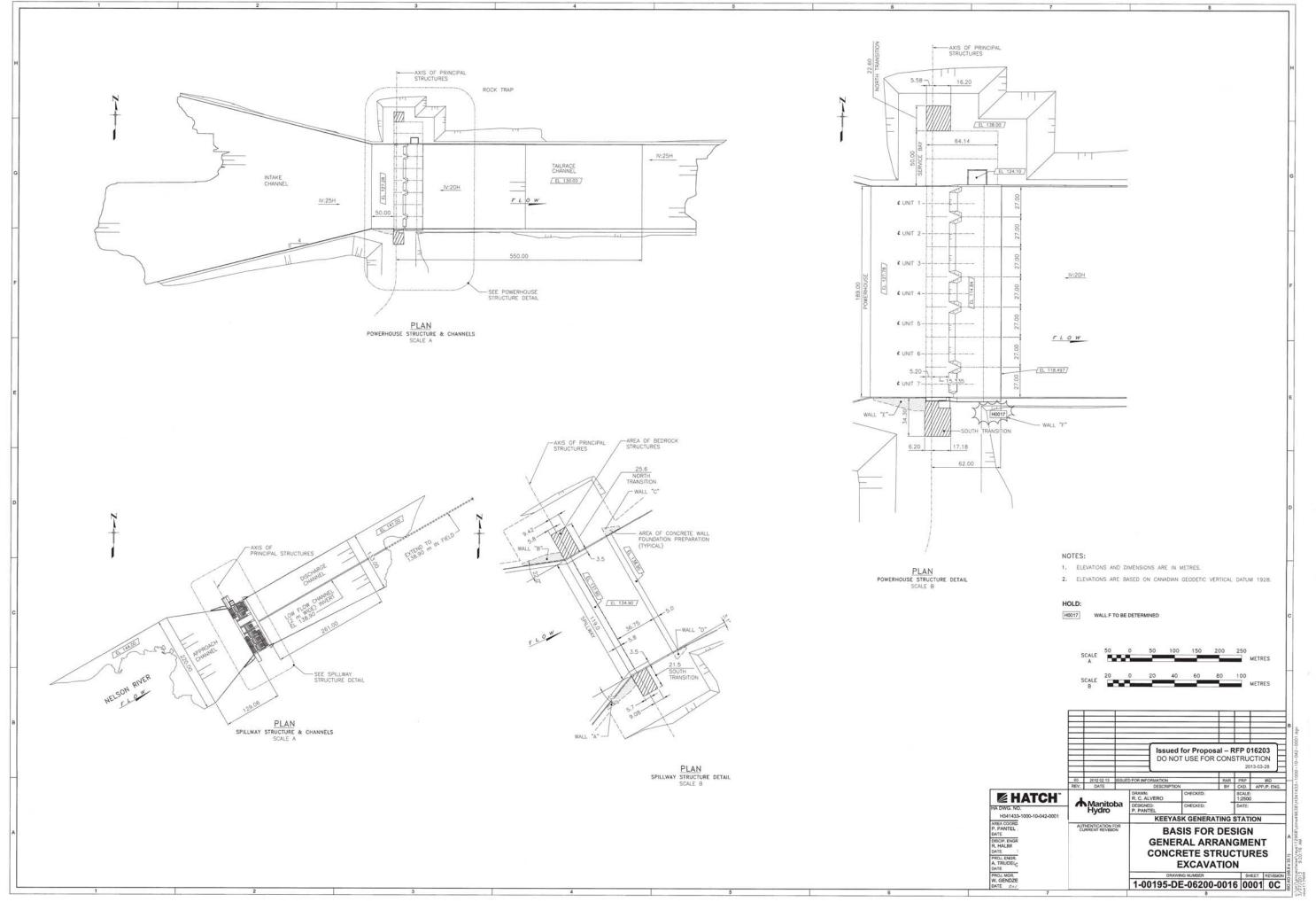


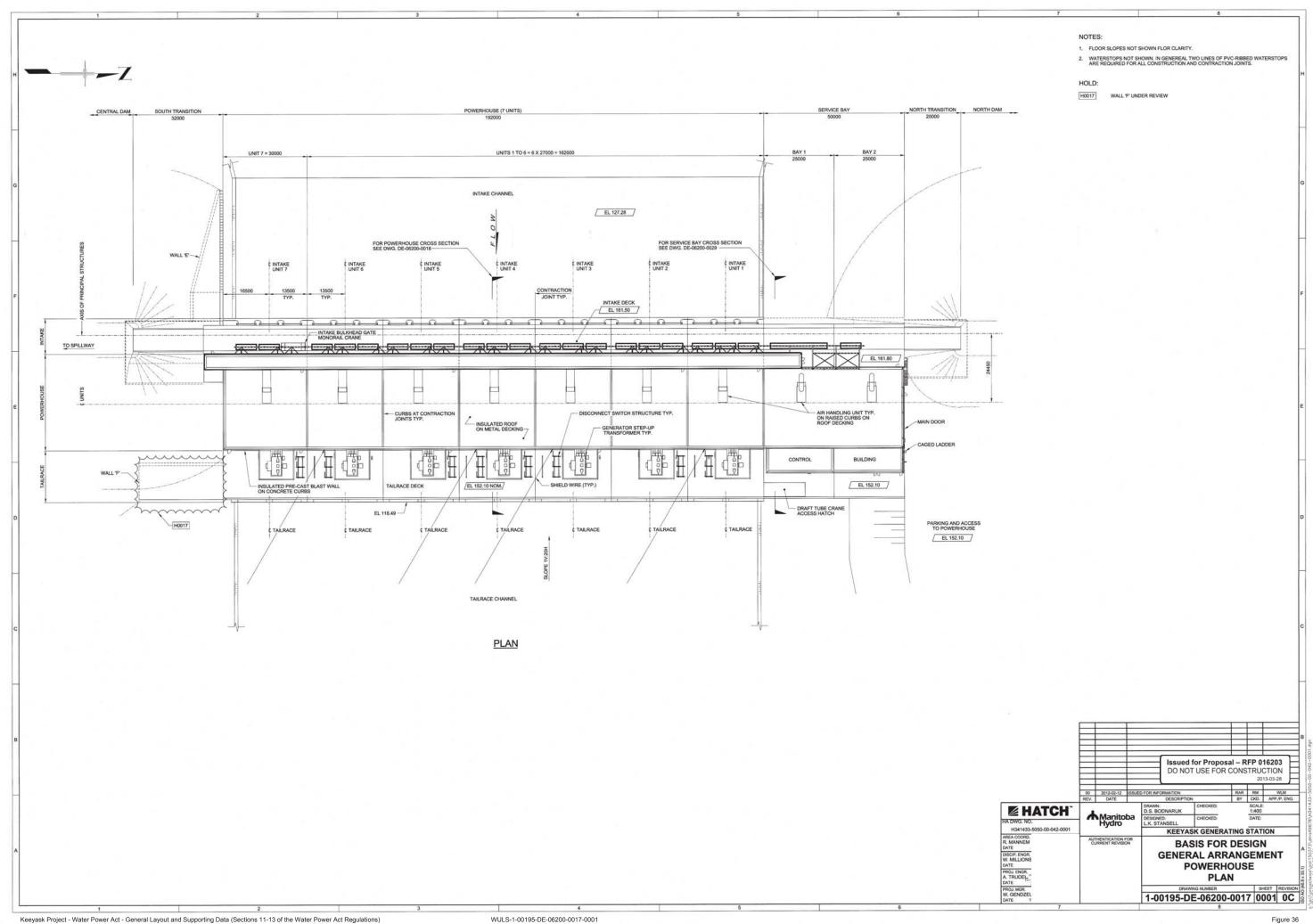


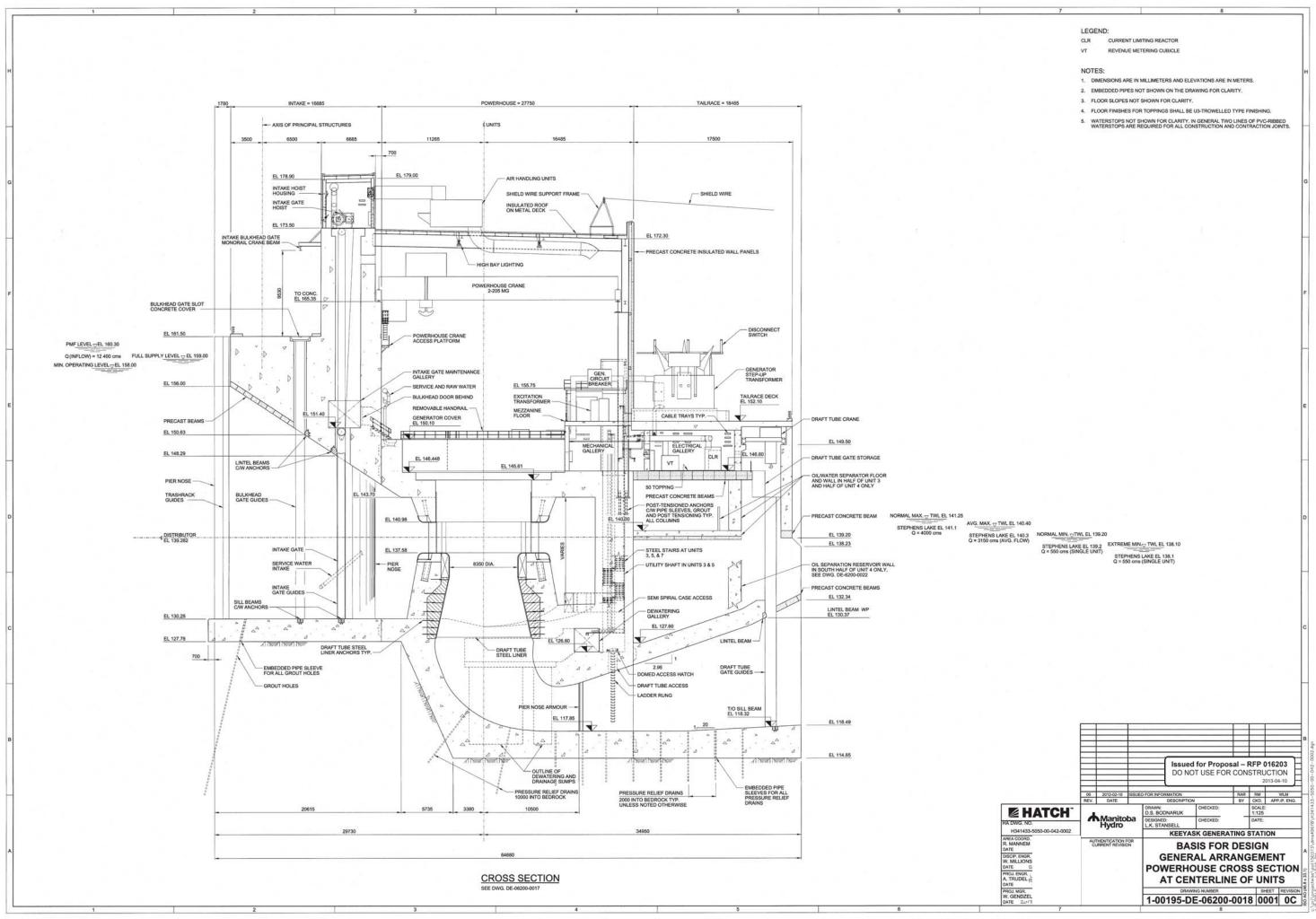












NOTES: 2. EMBEDDED PIPES NOT SHOWN ON THE DRAWING FOR CLARITY 3. FLOOR SLOPES NOT SHOWN FOR CLARITY. WATERSTOPS NOT SHOWN FOR CLARITY. IN GENERAL TWO LINES OF PVC-RIBBED WATERSTOPS ARE REQUIRED FOR ALL CONSTRUCTION AND CONTRACTION JOINTS. - AXIS OF PRINCIPAL STRUCTURES TOS EL 178.90 TO FLOOR EL 173.50 TOS EL 165.15 STEEL STAIRS 0... EL 161.50 TO FLOOR EL 159.90 TO FLOOR EL 156.00 DRAFT TUBE GATE MAINTENANCE ROOM ACCESS HATCH BULKHEAD GATE STORAGE E-3 FLOW EL 146.60 - CABLE TRAY EL 138.00 ± EL 131.49 ELEVATOR PIT-EL 126.60 **CROSS SECTION** Issued for Proposal – RFP 016203 DO NOT USE FOR CONSTRUCTION **■ HATCH** HA DWG. NO. H341433-5550-00-042-0001 KEEYASK GENERATING STATION H341433-5:
AREA COORD.
W. MILLIONS
DATE
DISCIP. ENGR.
W. MILLIONS
DATE
PROJ. ENGR.
A. TRUDEL &
DATE
PROJ. MGR.
W. GENDZEL
DATE
Zer **BASIS FOR DESIGN** GENERAL ARRANGEMENT SERVICE BAY **CROSS SECTION** 1-00195-DE-06200-0029 0001 0C

