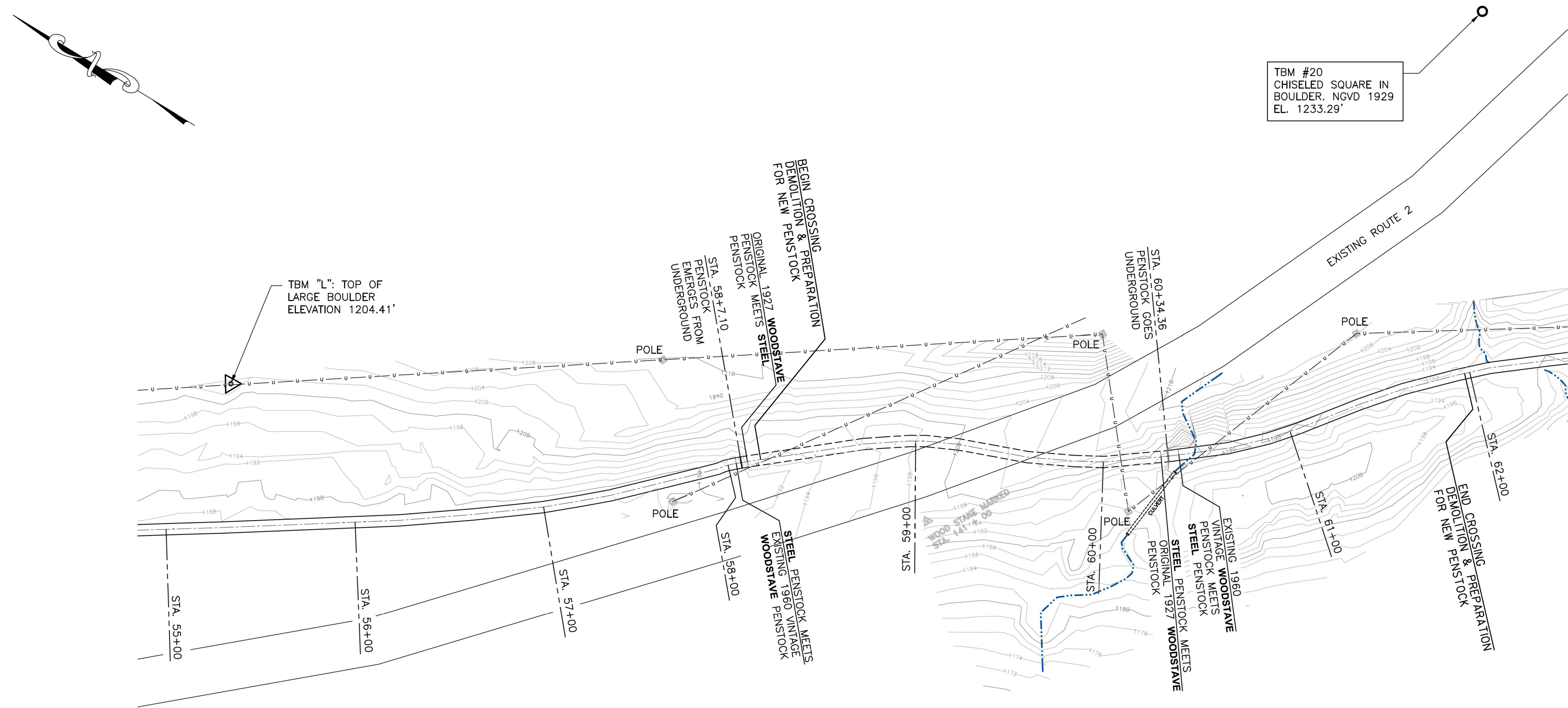
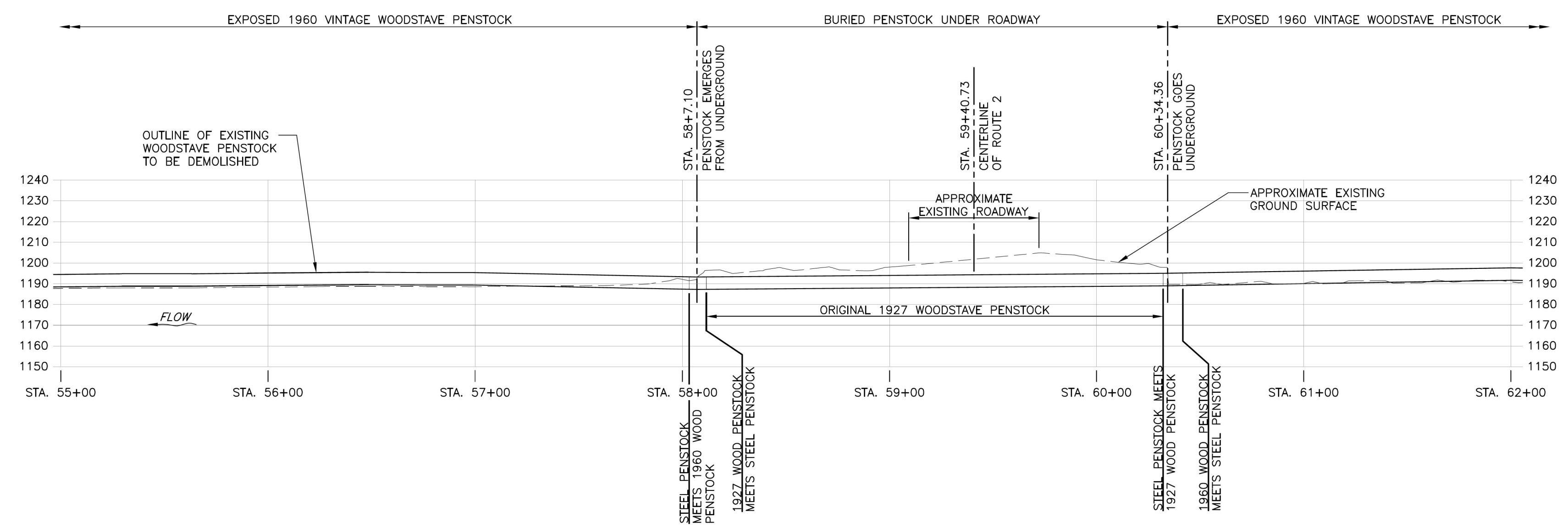


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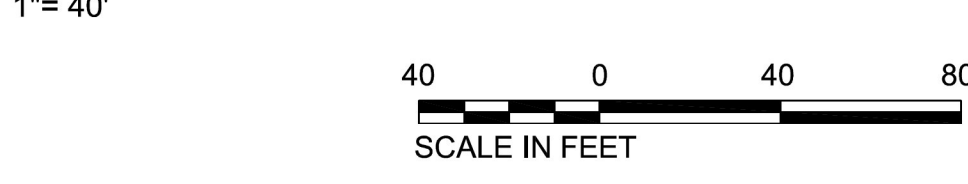
J:\V12\087\Drawings\2009\Work\Working Drawings\WORKING DWGS TO VTRANS\012-087 VTRANS Sheet 1.dwg



EXISTING PLAN VIEW ALONG CENTERLINE OF PENSTOCK



EXISTING PROFILE ALONG CENTERLINE OF PENSTOCK



- I. DEMOLITION:
  - A. DEMOLISH EXISTING BELOW GROUND WOOD STAVE PENSTOCK INCLUDING CONCRETE ENCASMENT, STEEL PIPE SECTIONS AND METAL BANDS, BETWEEN STA. 62+00 AND STA. 58+20.19.
  - B. GMP WILL DEWATER PENSTOCK AFTER CLOSING INTAKE GATE. PENSTOCK SHALL BE DEWATERED NO LONGER THAN FROM SEPTEMBER 1, TO NOVEMBER 1.
  - C. CONTRACTOR SHALL CONFORM TO ALL GMP SAFETY AND DEWATERING TAGOUT PROCEDURES.
  - D. CONTRACTOR SHALL NOT BEGIN ANY PENSTOCK DEMOLITION UNTIL AFTER RECEIVING WRITTEN AUTHORIZATION TO BEGIN DEMOLITION FROM GMP'S PROJECT MANAGER.
2. DIMENSIONS OF THE EXISTING PENSTOCK AND TOPOGRAPHY WERE TAKEN FROM MARCH 2009 AND DECEMBER 2008 SURVEYS BY SUNWISE SURVEYING 193 MCKINSTRY ROAD, CABOT, VT, 05647. ALL SURVEY ELEVATIONS WERE BASED ON BENCHMARK TMB 'A', SPIKE IN POLE AT AN ASSUMED ELEVATION 1000', SUNWISE CORRELATED THEIR TMB 'M' (WHICH IS LOCATED ON THE CREST OF THE DAM) TO BE 167.91' LOWER THAN THE VTRANS TMB #20 (CHISELED SQUARE IN BOULDER) SHOWN ON VTRANS SHEET DRAWING SHEET 39 (U.S. RTE 2 CABOT-DANVILLE SECTION I, PROJECT F NO. 028-3(26)) WHICH IS IN NGVD - 1929 VERTICAL DATUM. KLEINSCHMIDT ADJUSTED SUNWISE ELEVATIONS TO MATCH THE VTRANS TMB #20, SETTING THE SUNWISE TMB 'A' TO ELEVATION 1167.91' SO THAT ALL THE ELEVATIONS ARE IN NGVD - 1929 DATUM MATCHING THE VTRANS DRAWINGS.
3. THE REPLACEMENT OF GREEN MOUNTAIN POWER'S (GMP) MARSHFIELD HYDROELECTRIC STATION PENSTOCK UNDER U.S. ROUTE 2 INCLUDES WORK SCOPE BY BOTH THE VTRANS CONTRACTOR AND DIRECTLY BY GMP'S CONTRACTOR. THE VTRANS CONTRACTOR'S PRIMARY WORK SCOPE INCLUDES EXCAVATING AND REMOVING THE EXISTING PENSTOCK, PREPARING THE BEDDING FOR THE NEW PIPE, AND COMPLETING THE BURIAL OF THE NEW PIPE AFTER GMP'S CONTRACTOR INSTALLS THE NEW PENSTOCK AND CULVERT UNDERNEATH THE NEW PENSTOCK, TESTS THE FIELD CONNECTIONS AND PERFORMS AIR TESTS ON THE NEW PIPE. DETAILS OF THE WORK SCOPE FOR THE REPLACEMENT PORTION OF THE PENSTOCK THAT IS THE VTRANS CONTRACTOR RESPONSIBILITY ARE CONTAINED IN VTRANS SPECIFICATIONS FOR PAY ITEM 900.645 (PENSTOCK DEMOLITION AND SITE PREPARATION) AND GMP'S MARSHFIELD PENSTOCK REPLACEMENT SPECIFICATION SECTION 01000 - SCOPE OF WORK.
4. SITE PREPARATION:
  - A. PIPE BEDDING AND BACKFILL - SEE SPECIFICATION SECTION 900 FOR DETAILS:
    - I. BACKFILL SHALL MEET VTRANS' STANDARD SPECIFICATION FOR CONSTRUCTION 2006 SUBSECTION 703.04.
    - II. PIPE BEDDING SHALL MEET VTRANS' STANDARD SPECIFICATION FOR CONSTRUCTION 2006 SUBSECTION 704.08.
    - III. FOR BACKFILL MORE THAN A FOOT ABOVE PENSTOCK, SEE VTRANS DRAWINGS.
  - B. REMOVE LOOSE SOIL DEBRIS, HUMUS AND SILT FROM TRENCH BOTTOM BEFORE LAYING BEDDING
  - C. PLACE GEOTEXTILE BETWEEN NATIVE SOIL AND PIPE BEDDING.
  - D. GEOTEXTILE SHALL BE PER VTRANS STANDARD SPECIFICATION FOR CONSTRUCTION 2006 SECTION 720, PAY ITEM 649.31 "GEOTEXTILE UNDER STONE FILL".
  - E. TRENCHING SHALL BE COMPLETED SO THAT ALL SECTIONS HAVE A POSITIVE SLOPE BETWEEN THE CONTROL POINTS SHOWN ON THE DRAWINGS WITHOUT SAGS OR DIPS. THE MINIMUM DOWNWARD SLOPE SHALL BE 0.01FT/FT (1/8" VERTICAL TO 12' HORIZONTAL).

Scale: AS SHOWN		VERMONT AGENCY OF TRANSPORTATION MONTPELIER, VERMONT		<b>ISSUED FOR BID PURPOSES ONLY</b>
Project No: 012-087		U.S. RTE. 2 CABOT-DANVILLE, SECTION I PROJ. F, NO. 028-3(26) - GMP MARSHFIELD PENSTOCK		
AutoCad Release: 2007		EXISTING PLAN AND PROFILE OF WOOD STAVE PENSTOCK STA. 55+00 THRU STA. 62+00		<b>SHEET 116 OF 250</b>
Design By: JLD		141 Main St., P.O. Box 650 Pittsfield, Maine 04967 Telephone: (207) 487-3328 Fax: (207) 487-3124 www.KleinschmidtUSA.com		
Drawn By: CFT				
Checked By: TLK				
Date Revised: 6-02-09				
No.	Revision	Date		
	ISSUED FOR BID	6-02-09		
	REVISIONS	4-24-09		
	ISSUED FOR REVIEW	3-24-09		