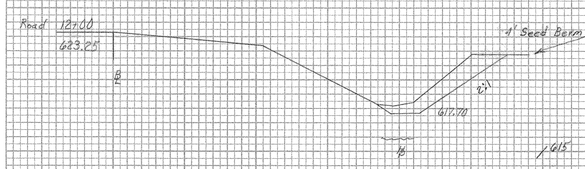
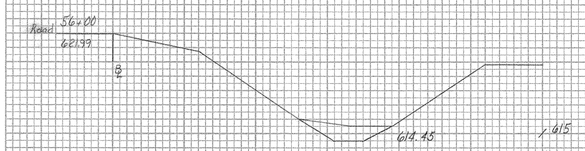
Bernice Warns Ditch
Improvement Project #2439

"TYPICAL CROSS-SECTIONS"

MAIN

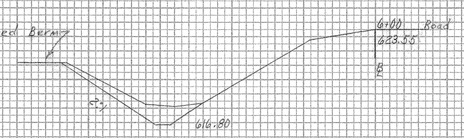




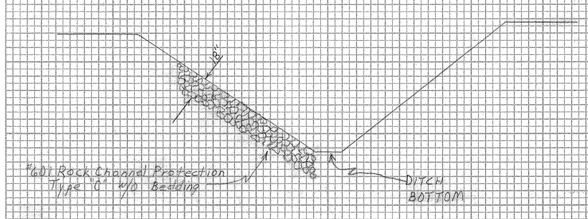
*NOTE

All disturbed banks will be seeded plus a 4' Seeded Berm. See General Notes & Specification Sheets for more details.

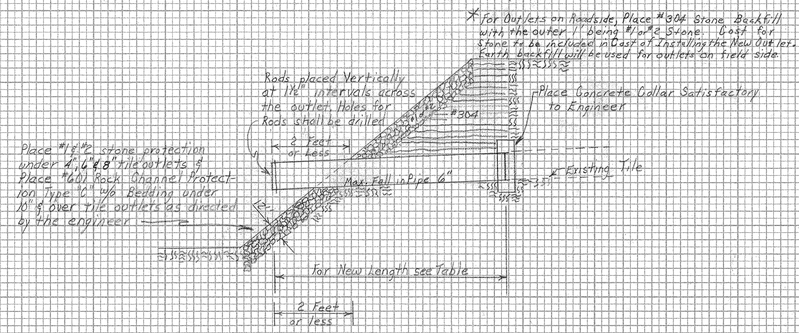
BRANCH #1



ROCK CHANNEL PROTECTION DETAIL



PIPE REPLACEMENT TABLE & DETAIL



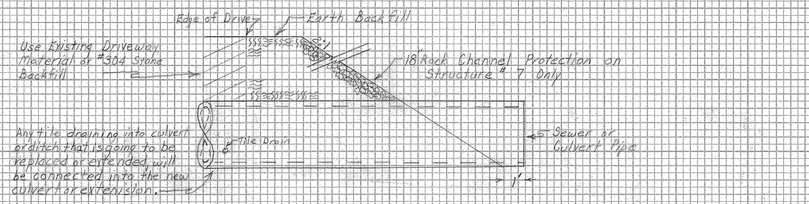
	Existing Tile Size			
	4" & Under	5" & 6"	8"	10" & Over
New Tile Size Replacement	4"	6"	8"	10" & Over
New Tile Lengths Replacement	12 Feet	12 Feet	12 Feet	20 Feet

NOTE:

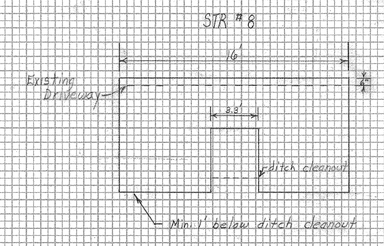
Remove sufficient length of existing tile or pipe as directed by the engineer. Cost of the concrete collar, stone protection, vertical rods, removal and disposal of existing pipe shall be included in the cost of new pipe. *See Detail for Tile on Roadside.)

Size of the new Type "F" (707.12) or Type "E" (711.29) conduit shall be equal to existing. However, all 3" & 4" existing outlets will be replaced with 4" conduit and 5" & 6" existing outlets will be replaced with 6" conduit.

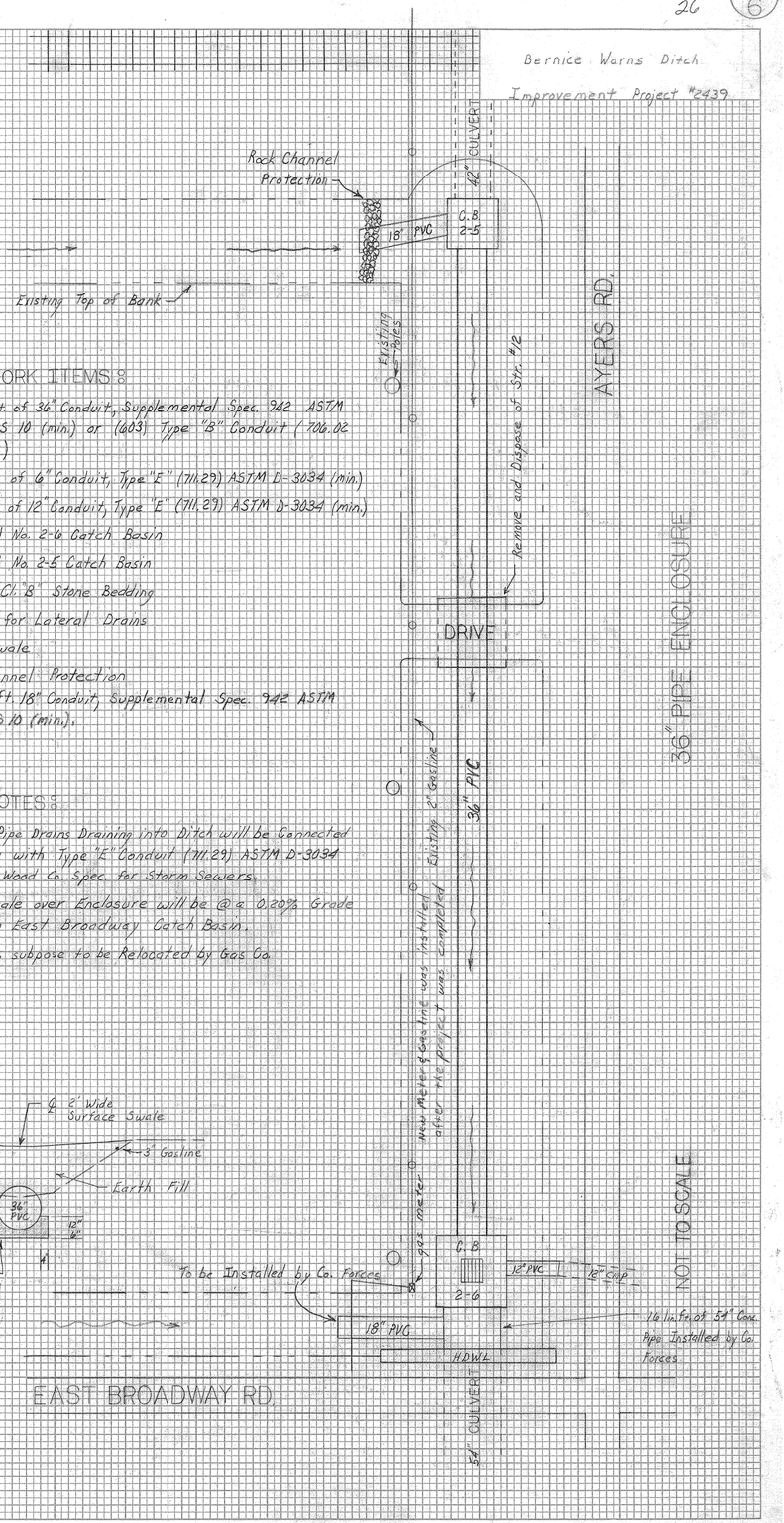
STRUCTURE REPLACEMENT DETAIL



HEADWALL REPLACEMENT



NOTE: See HW-1 Standard Headwall drawing for reinforcement placement & cross-section detail.



WORK ITEMS:

320± lin. ft. of 36" Conduit, Supplemental Spec. 942 ASTM F-794 PS 10 (min.) or (603) Type "B" Conduit (706.02 cl. III min.)

25± lin. ft. of 6" Conduit, Type "E" (711.29) ASTM D-3034 (min.)

25± lin. ft. of 12" Conduit, Type "E" (711.29) ASTM D-3034 (min.)

1 Standard No. 2-6 Catch Basin

1 Standard No. 2-5 Catch Basin

#603.04 Cl. "B" Stone Bedding

P.V.C. Pipe for Lateral Drains

Surface Swale

Rock Channel Protection

12.5± lin. ft. 18" Conduit, Supplemental Spec. 942 ASTM F-794 PS 10 (min.).

NOTES:

Any Lateral Pipe Drains Draining into Ditch will be Connected to Enclosure with Type "E" Conduit (711.29) ASTM D-3034 (min) as per Wood Co. Spec. for Storm Sewers.

Surface Swale over Enclosure will be @ a 0.20% Grade Draining to East Broadway Catch Basin.

Gas Meter is suppose to be Relocated by Gas Co.

FINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
NOTE BOOK					
NO.					

DATE	BY

ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
NOTE BOOK					
NO.					

DATE	BY