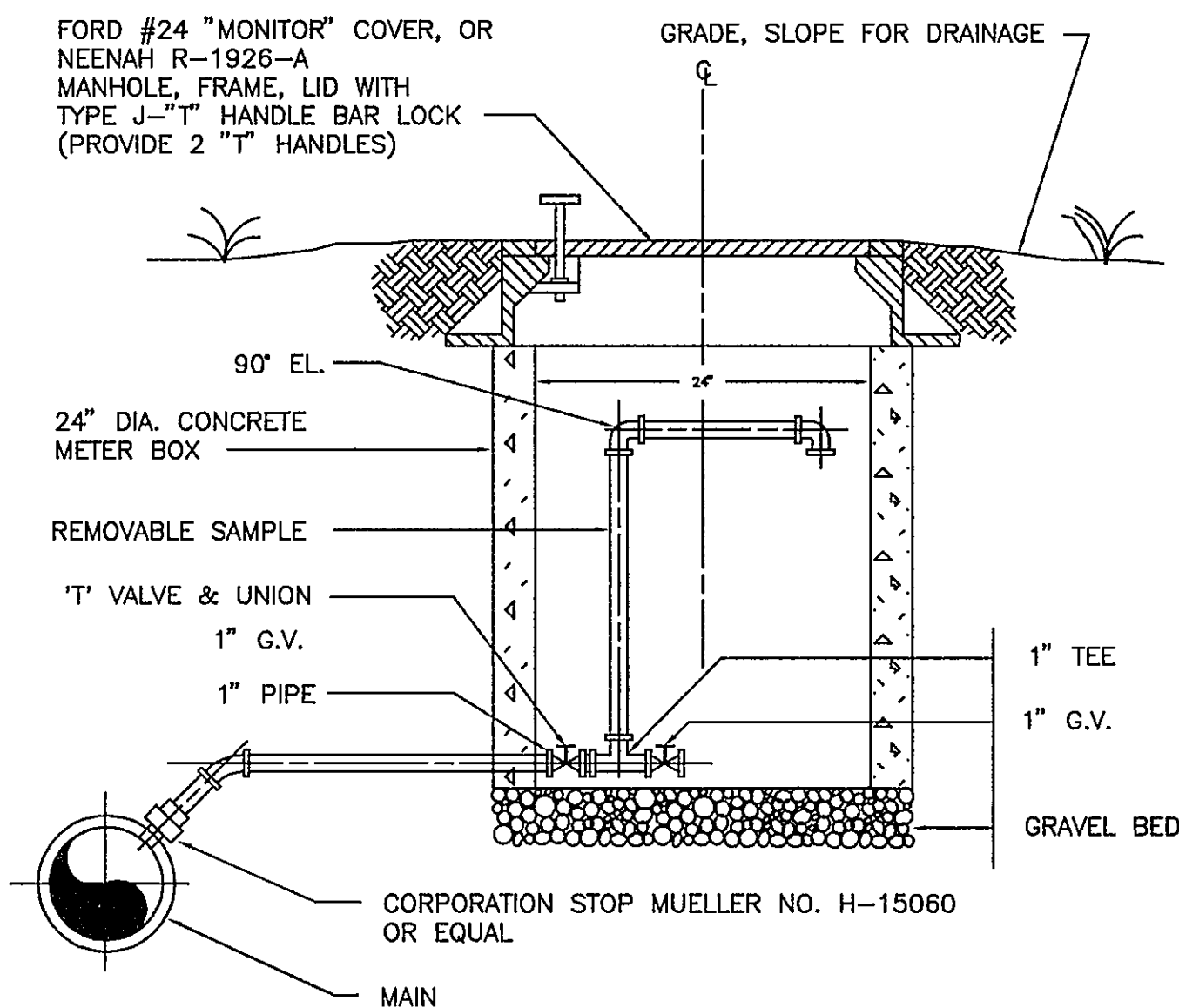
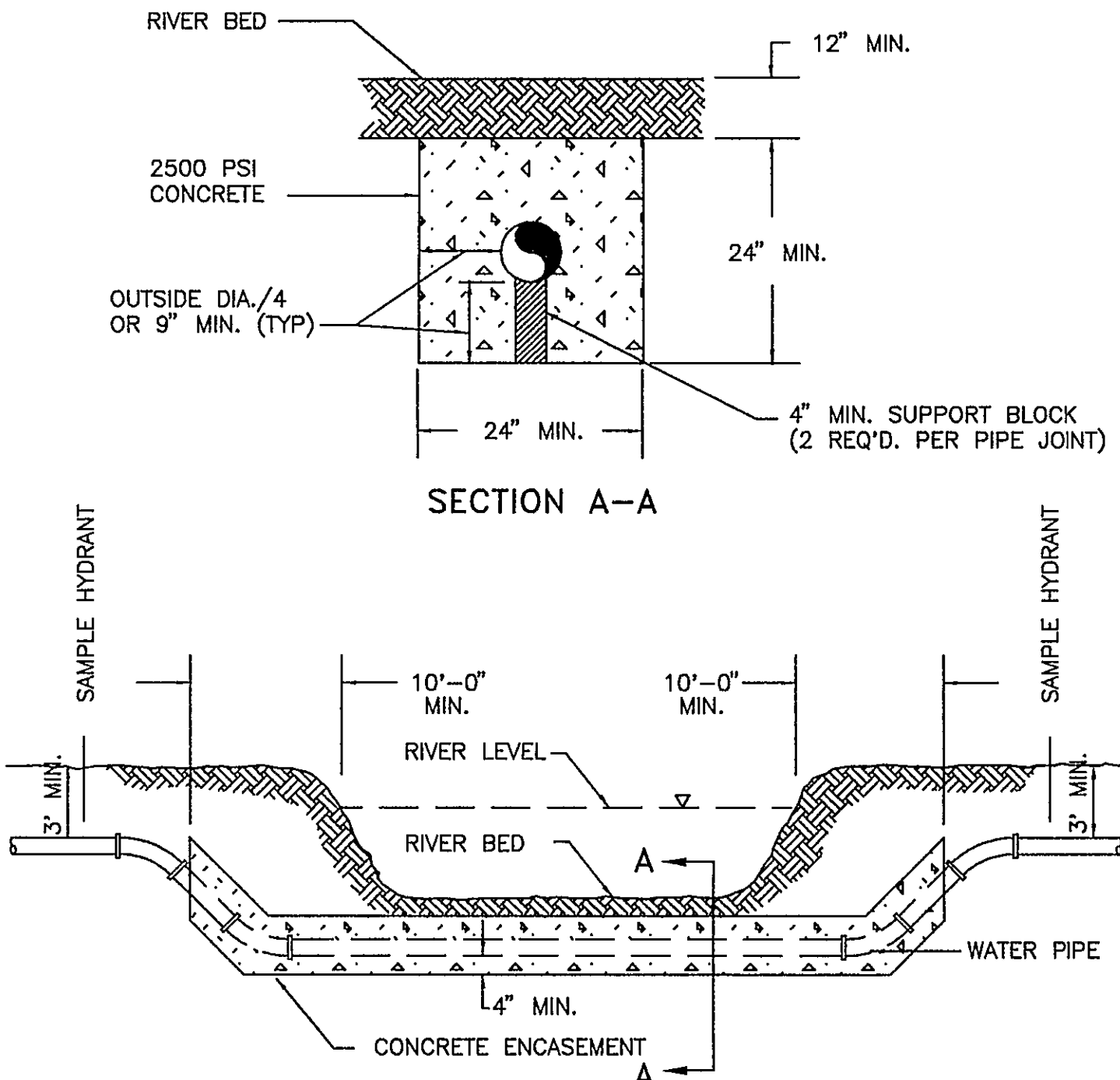


MAJOR DIVISIONS			LETTER SYMBOL	TYPICAL DESCRIPTIONS
Coarse Grained Soils More than 50% of Material by Weight is Coarser than No. 200 Sieve Size	Gravel and Gravelly Soils More than 50% of Coarse Fraction Retained on No. 4 Sieve	Clean Gravels 0–5% Fines*	GW	Fully–Graded Gravels, Gravel–Sand Mixtures, Little or No Fines
		Gravels with Fines >12% Fines*	GP	Gap or Uniform–Graded Gravels, Gravel–Sand Mixtures, Little or No Fines
			GM	Silty Gravels, Gravel–Sand Silt Mixtures
	Sand and Sandy Soils More than 50% of Coarse Fraction Passing No. 4 Sieve	Clean Sand 0–5% fines*	GC	Clayey Gravels, Gravel–Sand–Clay Mixtures
		Sands with Fines >12% Fines	SW	Well–Graded Sands, Gravelly Sands, Little or No Fines
			SP	Gap or Uniform Graded Sands, Gravelly Sands, Little or No Fines
Fine Gravels Soils More than 50% of Material by Weight is Finer than No. 200 Sieve Size	Sils and Clays Low Compressibility Liquid Limit Less than 50%		SM	Silty Sands, Sand–Silt Mixtures
			SC	Clayey Sands, Sand–Clay Mixtures
			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity
	Sils and Clays High Compressibility Liquid Limit Greater than 50%		CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays
			OL	Organic Silts and Organic Silty Clays of Low Plasticity
			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sands or Silty Soils
Highly Organic Soils		CH	Inorganic Clays of High Plasticity	
		OH	Organic Clays of Medium to High Plasticity, Organic Silts	
			PT	Peat, Humus, Swamp Soils with High Organic Contents
* For soils having 5 to 12% fines, use dual symbol such as SP–SM.				
UNIFIED SOIL CLASSIFICATION SYSTEM				

UNIFIED SOIL CLASSIFICATION SYSTEM

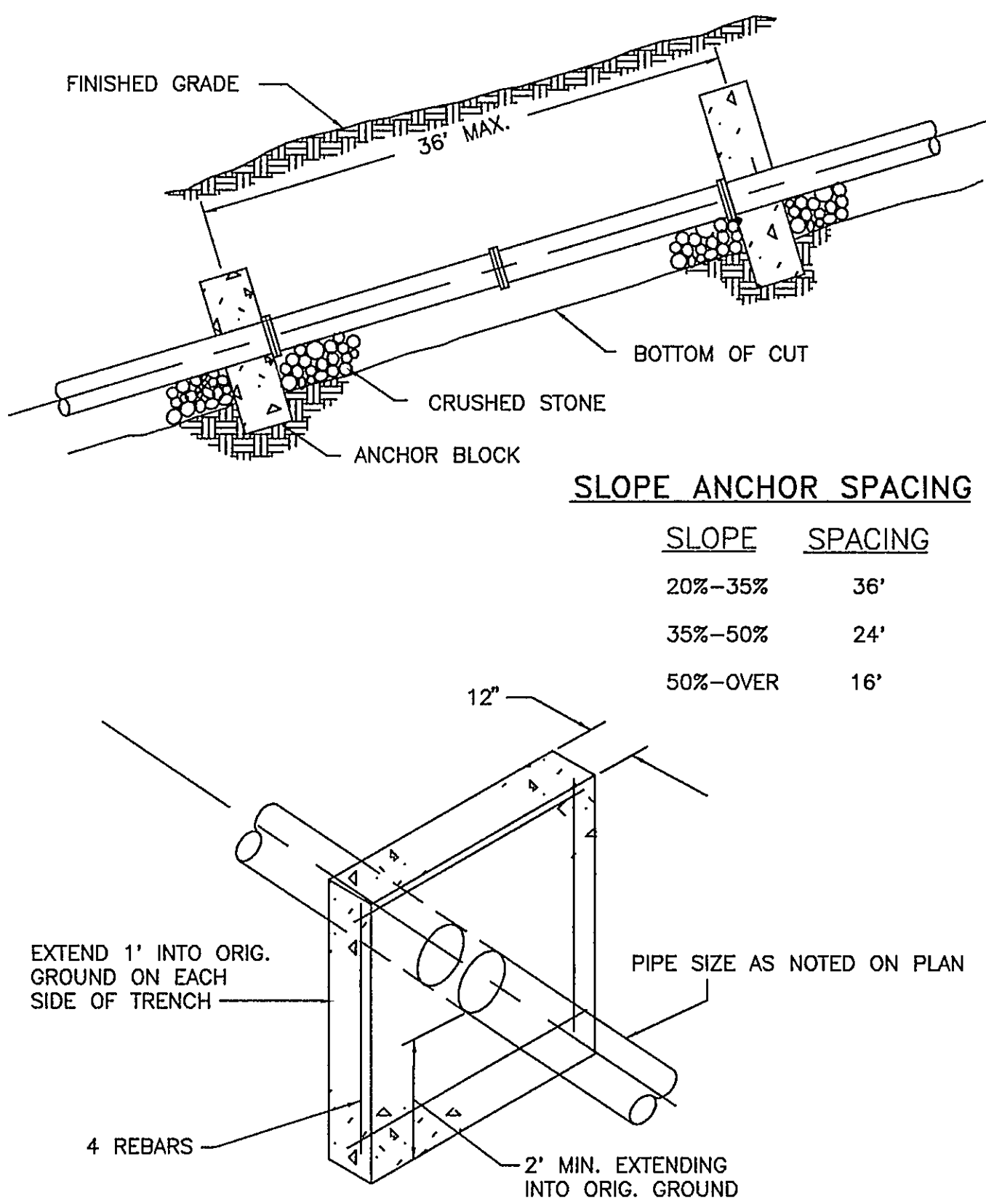


TYPICAL SAMPLE HYDRANT  
NTS

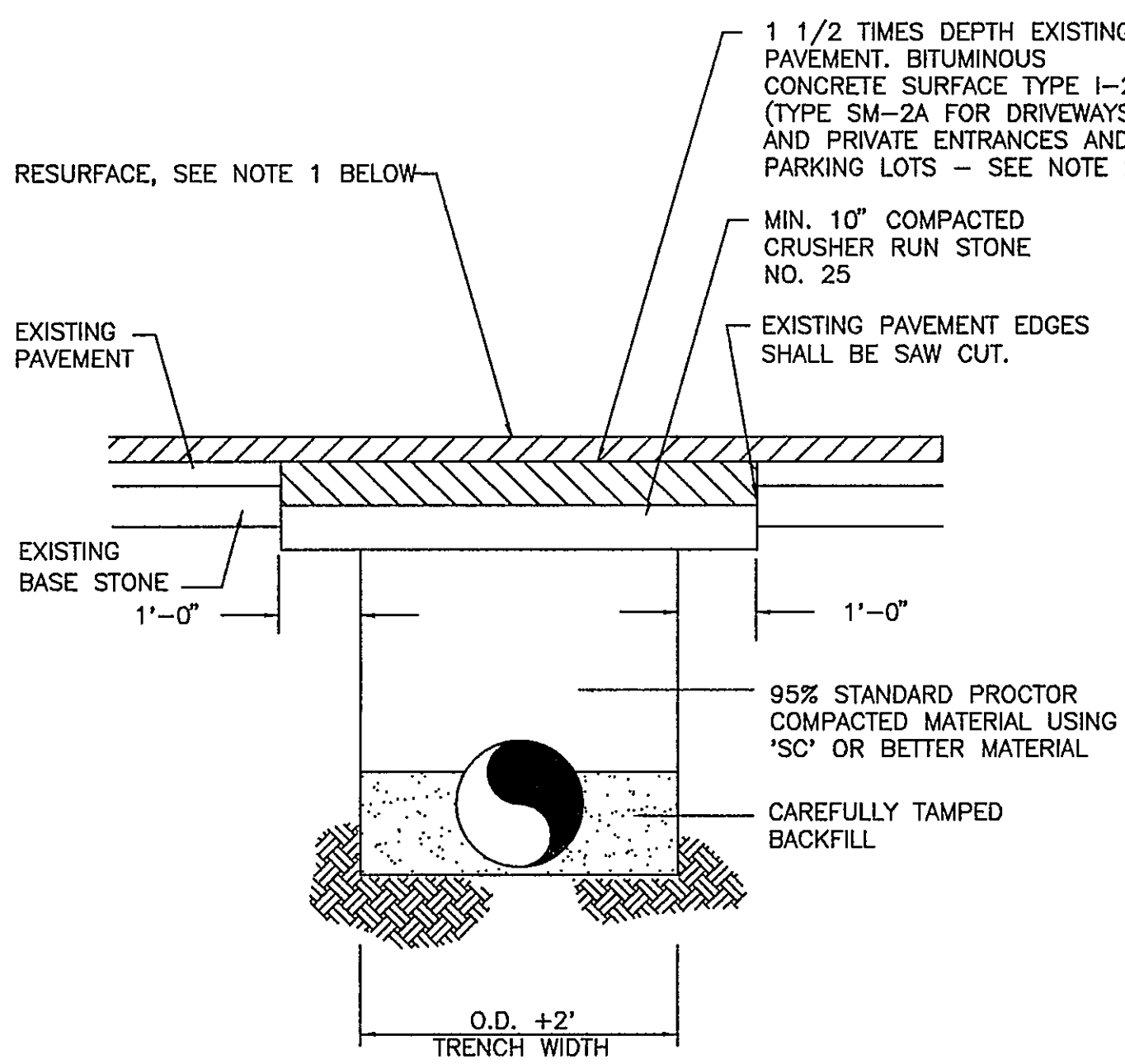


RIVER CROSSING DETAIL  
NTS

EROSION AND SEDIMENT CONTROL MEASURES FOR CREEK AND STREAM CROSSINGS SHALL BE IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, SPEC. 3.25. SEE DETAIL SHEET 12.

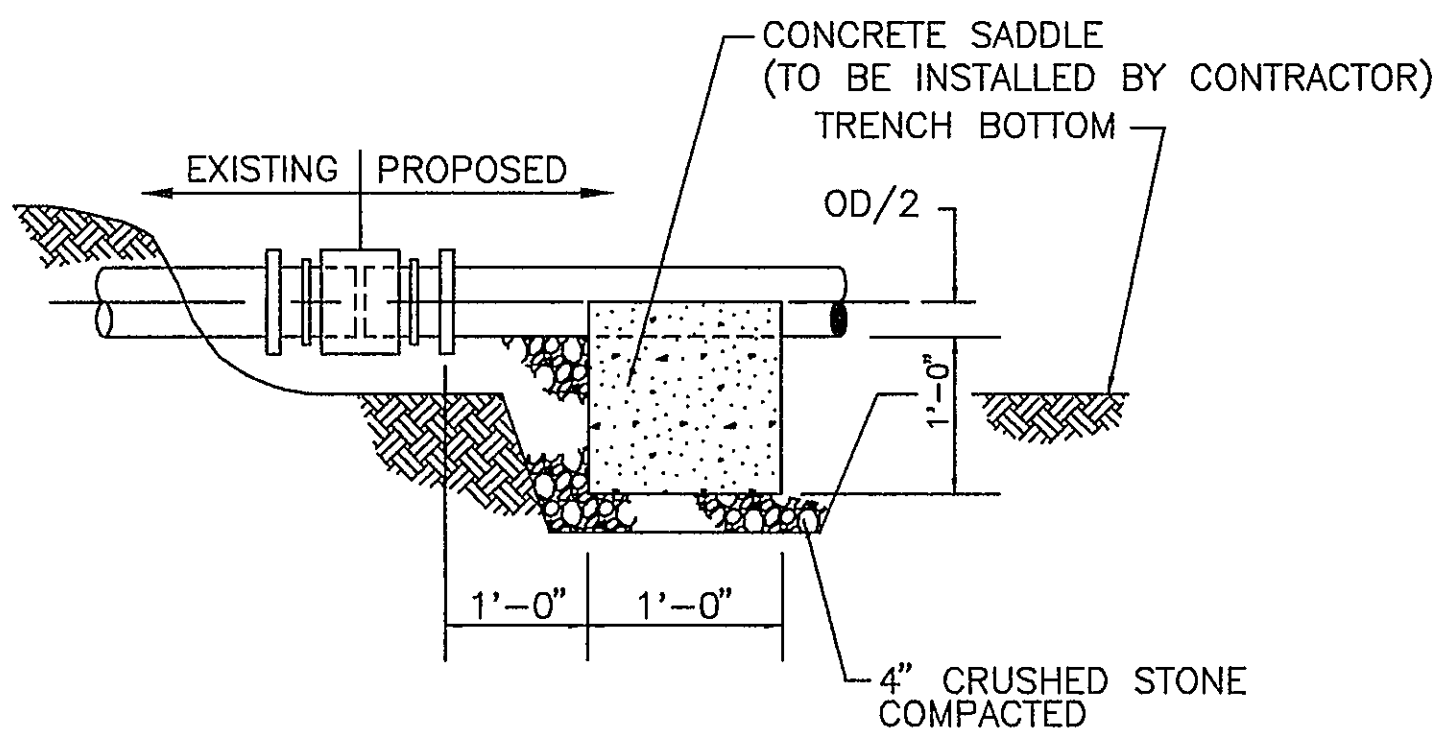


ANCHOR BLOCK DETAIL  
NTS

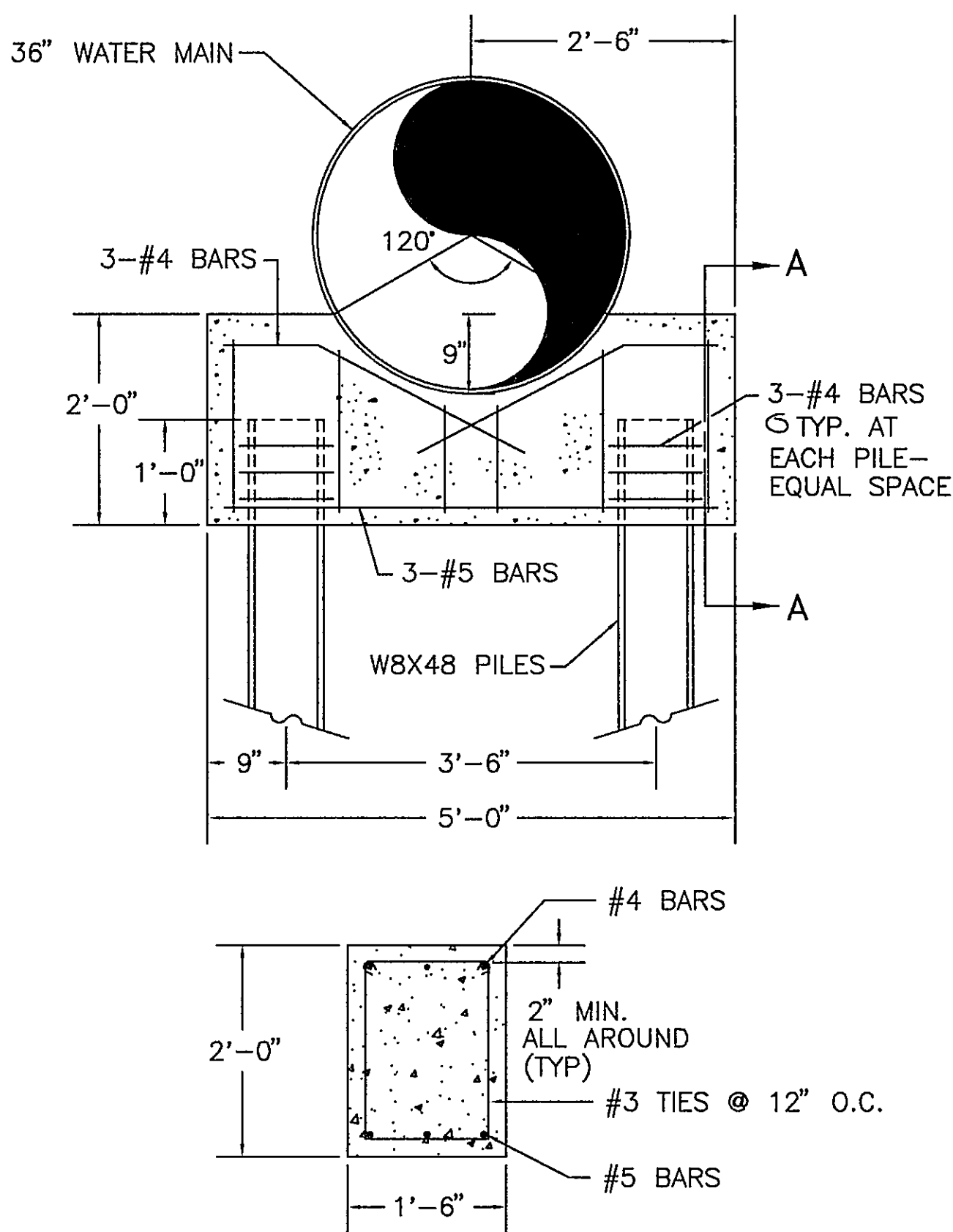


OPEN CUT ROAD and CROSSING DETAIL  
NTS

- NOTES:
- 1) ALLPAVED SURFACES OWNED BY THE STATE SHALL BE RESURFACED 25' EACH SIDE OF CUT, AS PER V.D.O.T. SPECIFICATIONS. ALL PAVED ROADWAYS OWNED BY THE CITY OF ROANOKE, AND CUT BY THE CONTRACTOR SHALL HAVE THE TRENCH WIDTH PLUS FIVE FEET ON EACH SIDE OF THE CUT RESURFACED TO A COMPACTED THICKNESS OF 1.5"
  - 2) THIS DETAIL ALSO APPLIES TO ALL PAVED DRIVEWAYS, PRIVATE ENTRANCES AND PARKING LOTS - EXCLUDING 25' RESURFACING EACH WAY.
  - 3) WHERE EXISTING SURFACE IS GRAVEL, REPLACEMENT SURFACE TO BE CRUSHER RUN STONE NO. 25.
  - 4) MAXIMUM DEPTH OF ASPHALT TRENCH PATCH IS 6 INCHES COMPACTED.

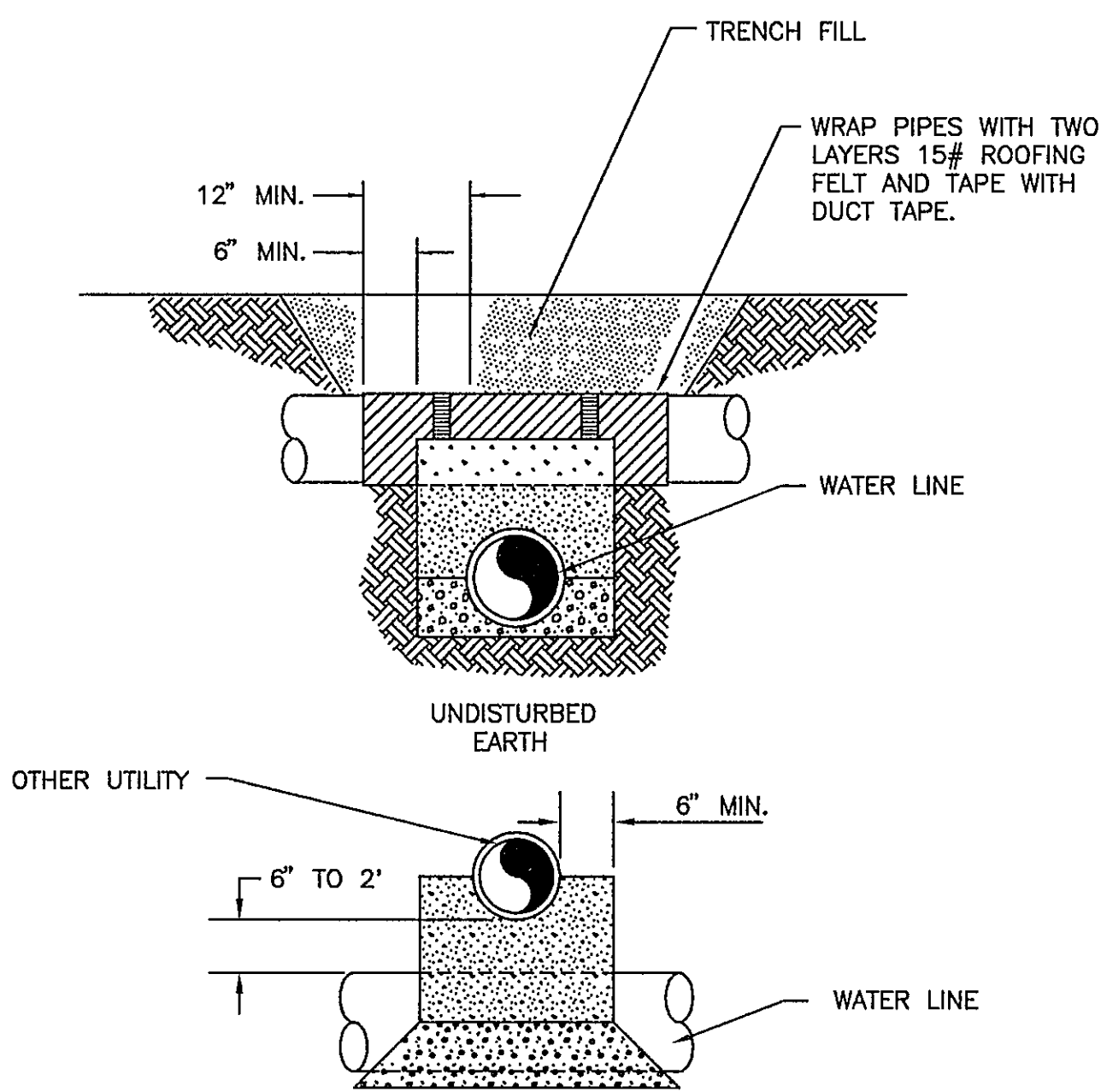


TYPICAL SEWER LINE COUPLING DETAIL  
NTS



SECTION A-A

PILE CAP DETAIL  
NTS



PIPE CROSSING OTHER THAN  
SANITARY SEWER  
NTS



AS BUILT

Architects  
Engineers  
Planners  
Surveyors

**Dewberry & Davis**  
5238 Valleypointe Parkway, Suite One-B  
Roanoke, Virginia 24019  
703 382-7725

Carvins Cove, Phase II  
City of Roanoke  
Roanoke, Virginia

CONTRACT "A-2"  
DETAILS

Drawn By ACF  
Designed By RBS  
Checked By SEH  
Date DEC. 1993  
Scale AS SHOWN  
Plan Number ADTRWL2B  
Zoned NONE  
Sheet 11 of 12  
File Number C1160

ENGINEER'S SEAL