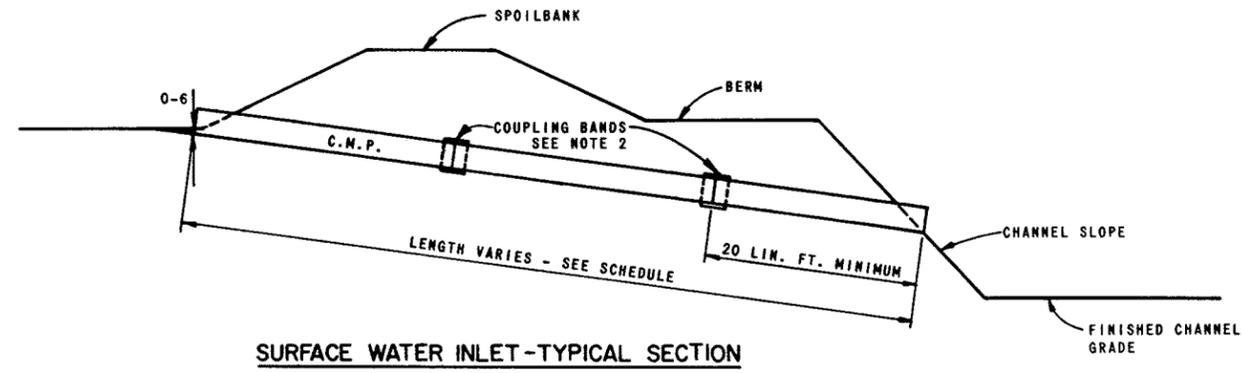
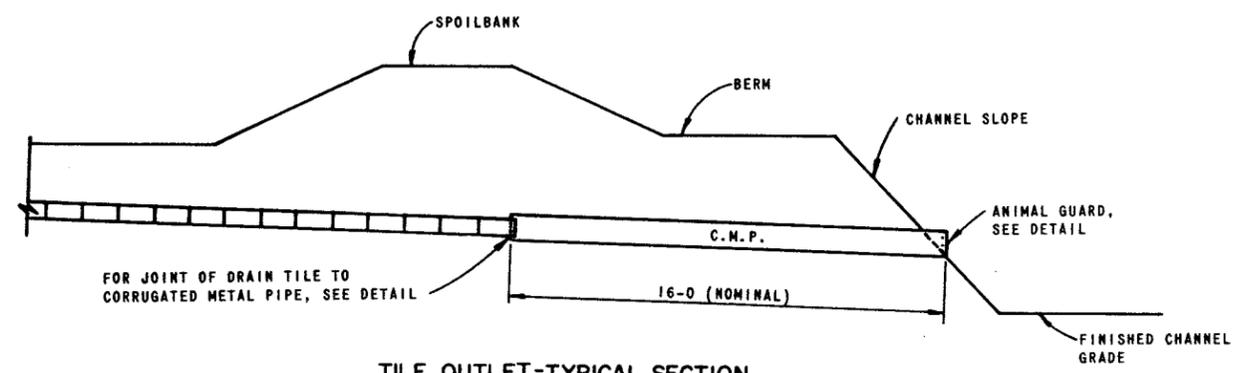


SCHEDULE FOR CORRUGATED METAL PIPE						
Structure No.	Structure Type	Station	Bank	C.M. Pipe		Approx. lin. ft. of tile needed to extend
				Di	er	



SURFACE WATER INLET-TYPICAL SECTION



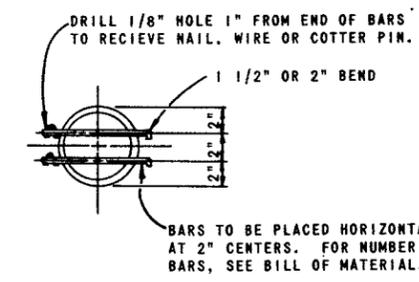
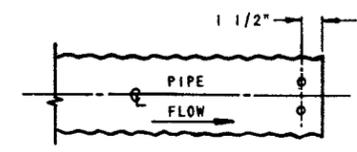
TILE OUTLET-TYPICAL SECTION

SURFACE WATER INLET NOTES:

1. FINAL LOCATION, ALIGNMENT, INLET CHANNEL GRADE, AND PIPE INVERT ELEVATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. COUPLING BANDS SHALL HAVE A MINIMUM WIDTH OF 12 INCHES.
3. CORRUGATED METAL PIPE SHALL BE MADE OF ALUMINUM OR ZINC COATED IRON OR STEEL. COUPLING BANDS SHALL BE OF THE SAME MATERIAL AS THE PIPE.
4. SURFACE WATER INLETS SHALL BE SHAPE 1 OR 3, CLASS 1 OR II CORRUGATED METAL PIPE. SHAPE 3 PIPE MUST PROVIDE A CROSS SECTIONAL AREA EQUAL TO OR GREATER THAN THE CROSS SECTIONAL AREA PROVIDED BY THE SPECIFIED DIAMETER SHAPE 1 PIPE.

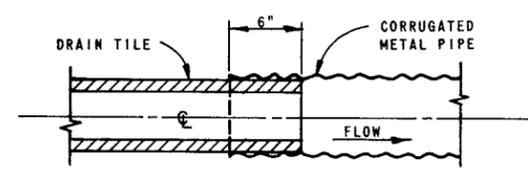
TILE OUTLET NOTES:

1. TILE OUTLETS SHALL BE PROVIDED ON ALL TILES EXPOSED DURING CONSTRUCTION OPERATIONS. TILE OUTLETS LISTED ON THE SCHEDULE ARE THOSE FOUND DURING THE DETAIL PLANNING, AND IS NOT NECESSARILY A COMPLETE LIST OF ALL TILE OUTLETS TO BE INSTALLED.
2. EXISTING TILE LINES WILL BE EXTENDED WHERE NECESSARY WITH THE SAME SIZE TILE AS DIRECTED BY THE ENGINEER.
3. GRADE WILL BE SPECIFIED BY THE ENGINEER.
4. THE ENGINEER WILL SPECIFY OUTLET INVERT ELEVATIONS.
5. TILE OUTLET CORRUGATED METAL PIPE SHALL BE MADE OF ALUMINUM OR ZINC COATED IRON OR STEEL AND SHALL BE SHAPE 1, CLASS 1 OR II.
6. ANIMAL GUARDS SHALL BE OF THE SAME MATERIAL AS THE PIPE.



DETAILS OF ANIMAL GUARD

AT CONTRACTOR'S OPTION, A COMMERCIAL ANIMAL GUARD ACCEPTABLE TO THE ENGINEER MAY BE INSTALLED IN LIEU OF THE ANIMAL GUARD SHOWN.

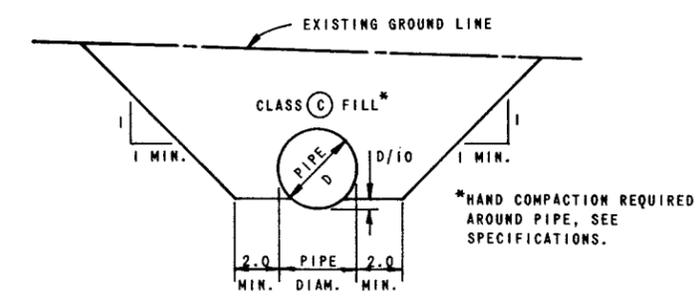


SECTION ON C SHOWING DETAIL OF JOINT FOR DRAIN TILE AND C.M. PIPE

SIZE RELATIONSHIPS BETWEEN TILE AND TILE OUTLET	
Tile Size	C.M.P. Tile Outlet Size
4"	6"
5" OR 6"	8"
8"	10"
10"	12"
12"	15"

BILL OF MATERIAL FOR ANIMAL GUARD			
C.M. Pipe Dia.	Bar Size	Number of Bars	Length
6"	#3 OR #4	2	1-0
8"	#3 OR #4	3	1-3
10"	#3 OR #4	4	1-6
15"	#3 OR #4	6	2-0

ALL HOLES IN PIPE TO RECEIVE BARS SHALL BE 9/16" DIAMETER.



TYPICAL EXCAVATION AND BACKFILL FOR PIPE INSTALLATION

DETAILS OF SURFACE WATER INLET AND TILE OUTLET PIPES

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed.....	Date.....	Approved by.....
Drawn.....		Title.....
Traced.....		Title.....
Checked.....		Sheet No.....
		Drawing No.....