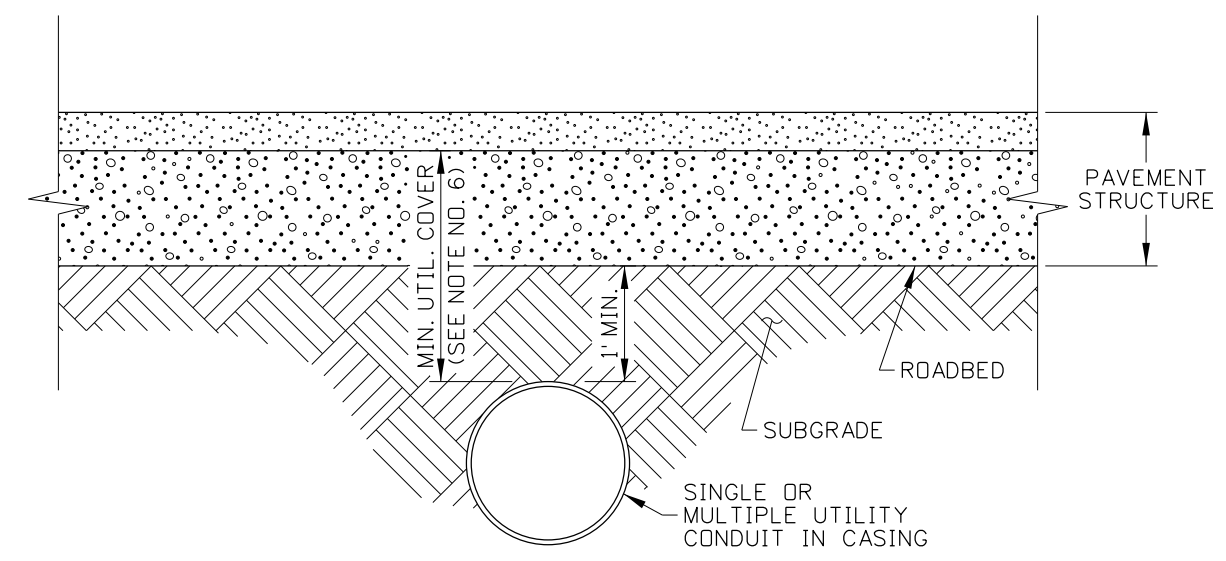
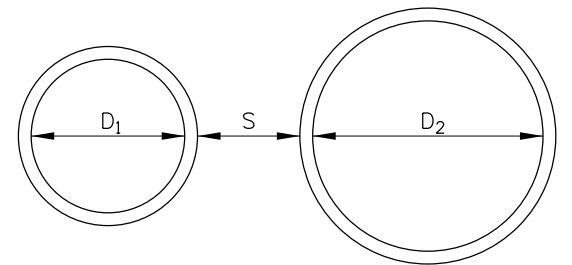


TRENCHING



JACKING, DRIVING, OR BORING



MULTIPLE PIPE INSTALLATION DETAIL

MATERIALS AND COMPACTION TABLE				
PIPE LOCATION	PIPE ZONE		TRENCH ZONE	
	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT
INSIDE ROADWAY PRISM	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO CLASS A COMPACTION OR 90% OF T-180 OR IT-74 (SEE NOTE NO. 3)	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	95% OF T-180 OR IT-74. (SEE NOTE NO. 2)
OUTSIDE ROADWAY PRISM	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO CLASS A COMPACTION OR 90% OF T-180 OR IT-74 (SEE NOTE NO. 3)	GRANULAR BORROW OR NATIVE MATERIALS WITH MAXIMUM SIZE OF 6" AND FREE FROM WOOD WASTE OR DELETERIOUS MATERIALS. (SEE NOTE NO. 1)	CLASS D COMPACTION

DIMENSION TABLE (SEE NOTE NOS. 4 AND 5)				
D (INCHES)	B (INCHES)	H (INCHES)	S (INCHES)	
≤ 6	10	8	24	
7 TO 15	12	10	24	
16 TO 30	18	12	24	
> 30	24	14	GREATER OF 24 OR D/2	

NOTES

- CONTROLLED DENSITY FILL (FLOWABLE FILL) MATERIAL OR PEA GRAVEL CAN BE USED IF APPROVED BY THE ENGINEER.
- CLASS D COMPACTION IN MEDIAN AND OUTSIDE 2H:1V SLOPE.
- LOOSE LIFT THICKNESS DIRECTLY ON TOP OF PIPE MAY BE INCREASED TO PREVENT DAMAGE TO PIPE DURING COMPACTION. DENSITY TEST MAY NOT BE REQUIRED FOR MATERIAL IN THE HAUNCH AND SIDES OF PIPE. CLASS D COMPACTION MAY BE APPLIED TO OUTSIDE THE ROADWAY PRISM IF APPROVED BY THE ENGINEER.
- WHEN TWO DIFFERENT DIAMETER PIPES ARE INSTALLED, USE THE LARGER D DIMENSION TO DETERMINE THE S DIMENSION.
- FOR PIPE DIAMETERS GREATER THAN 36 INCHES, THE B DIMENSION SHOULD BE EQUAL TO THE PIPE DIAMETER WHEN THE PIPE IS INSTALLED DURING EMBANKMENT CONSTRUCTION.
- MINIMUM DEPTH OF COVER FOR CONDUITS CARRYING:  
 WATER: 3'  
 LIQUID OR GAS PETROLIUM: 4'  
 COMMUNICATIONS OR ELECTRONICS: 2'  
 UTILITY OWNERS AND LOCAL PUBLIC AGENCIES MAY HAVE DIFFERENT MINIMUM COVER DEPTHS.
- DRAWINGS NOT TO SCALE.

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY: JOHN W. INGRAM III  
 DATE ORIGINAL SIGNED: JUNE 26, 2018

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-15	RDL						
2	03-16	RDL						
3	06-17	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
 CADD FILE NAME: 601-1\_0618.dgn  
 DRAWING DATE: MAY 2014

**IDAHO TRANSPORTATION DEPARTMENT**



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN  
 DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING  
**PIPE AND CONDUIT INSTALLATION**

**English**  
 STANDARD DRAWING NO.  
**601-1**  
 SHEET 1 OF 1