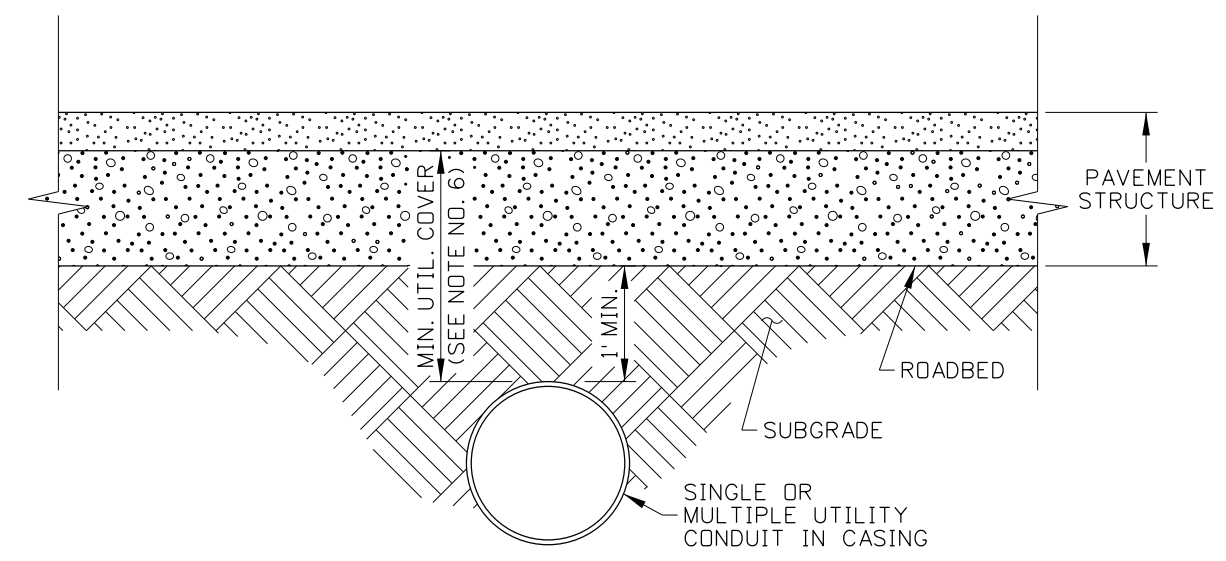
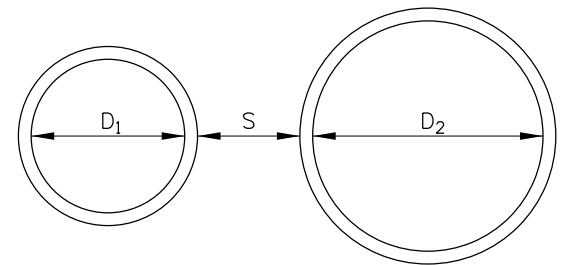


TRENCHING



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 95% OF AASHTO T-99 OR IT-74 (SEE NOTE NO. 3)	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	CLASS A COMPACTION. (SEE NOTE NO. 2)
OUTSIDE ROADWAY PRISM	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO 95% OF AASHTO T-99 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. CLASS D COMPACTION MAY BE APPLIED 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 INSTALLED DURING EMBANKMENT CONSTRUCTION.
- MINIMUM DEPTH OF COVER FOR CONDUITS CARRYING:  
 WATER: 3'  
 LIQUID OR GAS PETROLIUM: 4'  
 COMMUNICATIONS OR ELECTRONICS: 2'
- DRAWINGS NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-15	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY  
 CADD FILE NAME: 601-1\_1215.dgn  
 DRAWING DATE: May, 2014

**IDAHO TRANSPORTATION DEPARTMENT**



BOISE IDAHO

ORIGINAL SIGNED BY: TED E. MASON for  
 DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING  
**PIPE AND CONDUIT INSTALLATION**

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

**English**

STANDARD DRAWING NO.  
**601-1**

SHEET 1 OF 1

ORIGINAL SIGNED BY:  
 TRI BUJ  
 DATE ORIGINAL SIGNED:  
 DECEMBER 7, 2015