



- AND OVERBREAKAGE IN LIMESTONE AND DURABLE SHALE SHALL BE BACKFILLED WITH MATERIAL MEETING THE REQUIREMENTS OF AGGREGATE BASE COURSE (UD-1)SPECIFICATIONS. LAYERS OF EARTH OR SHALE SHALL NOT BE PERMITTED FOR BACKFILL UP TO THE BOTTOM OF THE AGGREGATE BASE COURSE.
- 2. A MINIMUM OF 12" OF SELECT SOIL (TOPSOIL) SHALL BE PLACED ON EXPOSED ROCK CUT OR FILL SLOPES, OUTSIDE THE LIMITS OF THE ROADWAY. ALL ROCK AND SHALE SLOPES SHALL BE BENCHED AT A MAXIMUM OF 2' VERTICAL INTERVALS, PRIOR TO PLACEMENT OF SELECT SOIL.
- 3. PROPOSED UNDERDRAIN PIPE LAYOUT, FLOWLINE ELEVATIONS, INLET CONNECTION POINTS, AND DETAILS SHALL BE APPROVED PRIOR TO CONSTRUCTION BY THE ENGINEER.
- 4. WHERE PIPE UNDERDRAINS ARE USED, ALL UNDERDRAIN OUTLET PIPES SHALL HAVE WATERTIGHT JOINTS. ALL OUTLET PIPES SHALL BE TIED INTO THE NEAREST STORM SEWER INLET AS APPROVED. WHERE EDGE UNDERDRAINS ARE USED, ALL UNDERDRAIN OUTLET PIPES SHALL HAVE MANUFACTURER JOINTS APPROVED BY THE ENGINEER. ALL CONNECTIONS BETWEEN UNDERDRAIN PIPES AND EDGE CONNECTORS OR CURB INLETS, SHALL BE MADE WITH 2' LENGTH OF OUTLET PIPE.
- 5. ALL UNDERDRAIN PIPES SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1%. PIPE SHALL BE INSTALLED WITH THE PERFORATIONS PLACED DOWN.
- 6. GEOTEXTILE SEAMS SHALL BE OVERLAPPED AT A MINIMUM OF 12".
- 7. PIPE SHALL BE CONTECH A-2000, ADS N-12, OR APPROVED EQUAL.
- 8. THE CONTRACTOR SHALL NOT MIX UNDERDRAIN TYPES OF MATERIALS WITHIN ANY UNDERDRAIN SYSTEM.
- 9. STORAGE AGGREGATE MEDIA D50 GRADATION SHOULD BE LARGER THAN THE PIPE PERFORATION DIAMETER SPECIFIED.
- 10. MINIMUM UNDERDRAIN PIPE DIAMETER IS 6".



