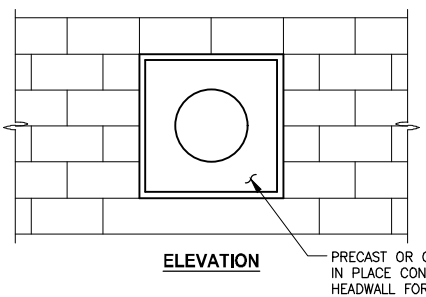
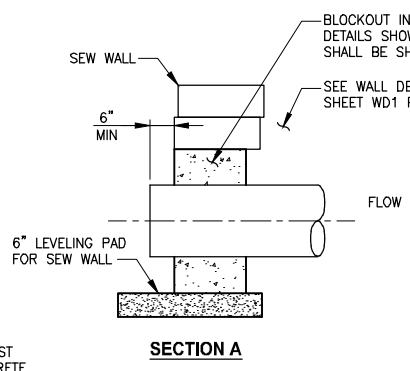


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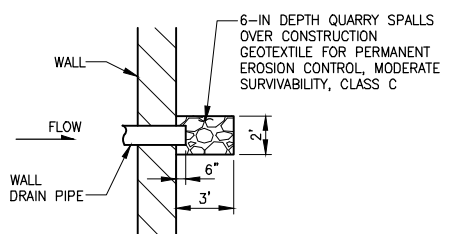
- NOTES:**
- FOR SEW WALLS SEE SHEET WD1.
 - CONCRETE HEADWALL FOR PIPE SHALL BE AT LEAST 6-INCHES THICK IN EACH DIMENSION AND CONSTRUCTED OF COMMERCIAL CONCRETE. DETAIL SHALL BE PROVIDED BY WALL MANUFACTURER.



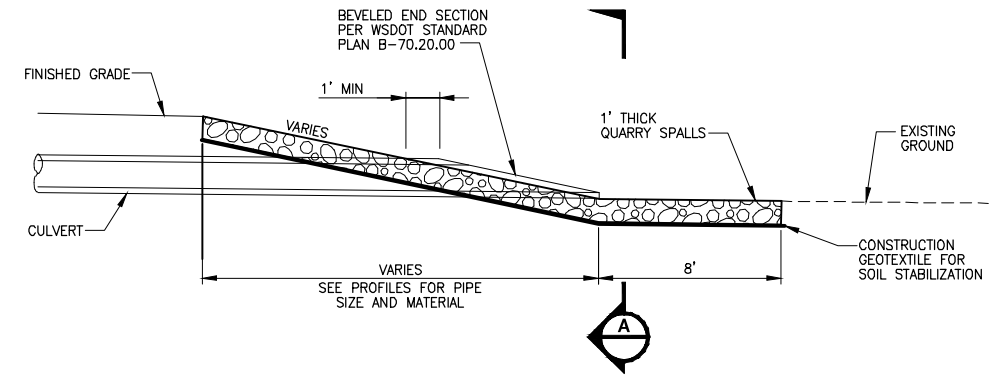
**CONCRETE HEADWALL FOR STRUCTURAL EARTH WALL
DETAIL 1**
NO SCALE



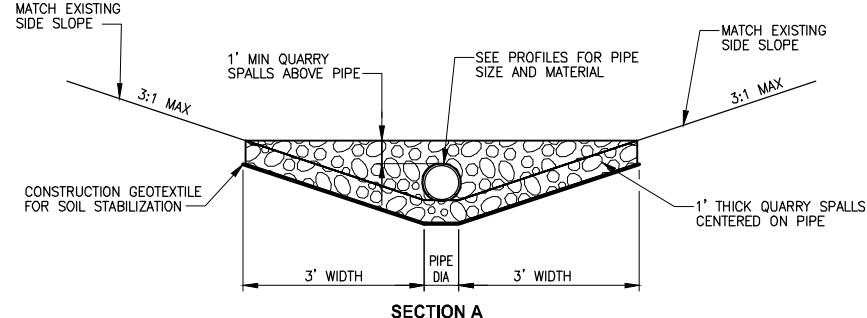
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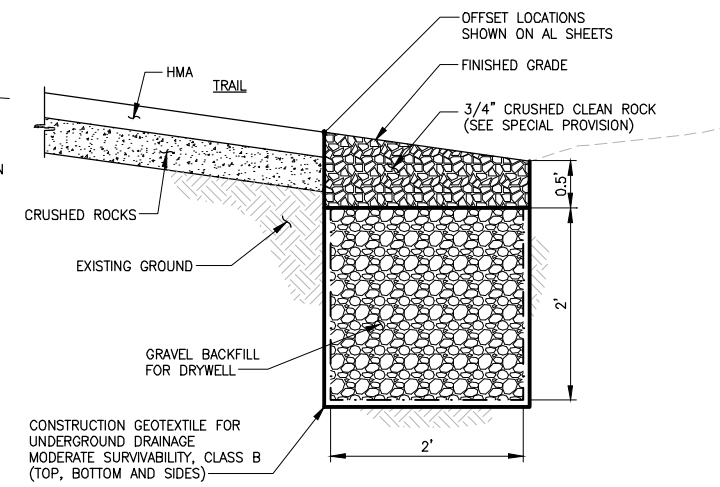
**ROCK PAD
DETAIL 2**
NO SCALE



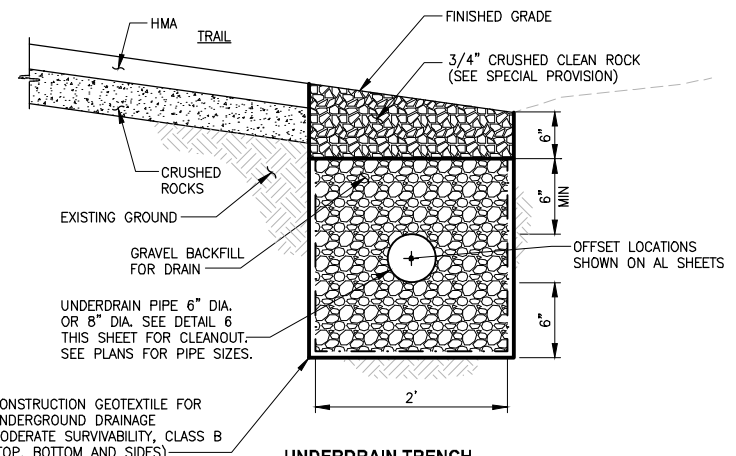
**QUARRY SPALL OUTFALL PROTECTION
DETAIL 3**
NO SCALE



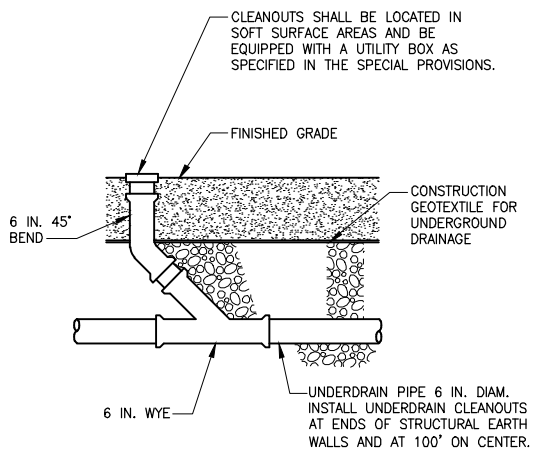
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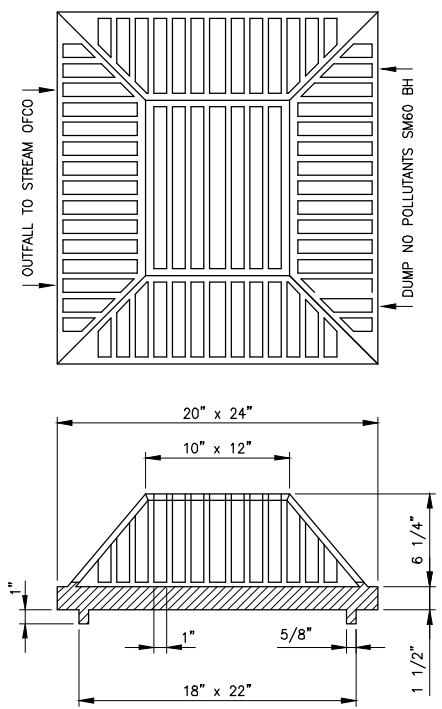
**INFILTRATION TRENCH
DETAIL 4**
NO SCALE



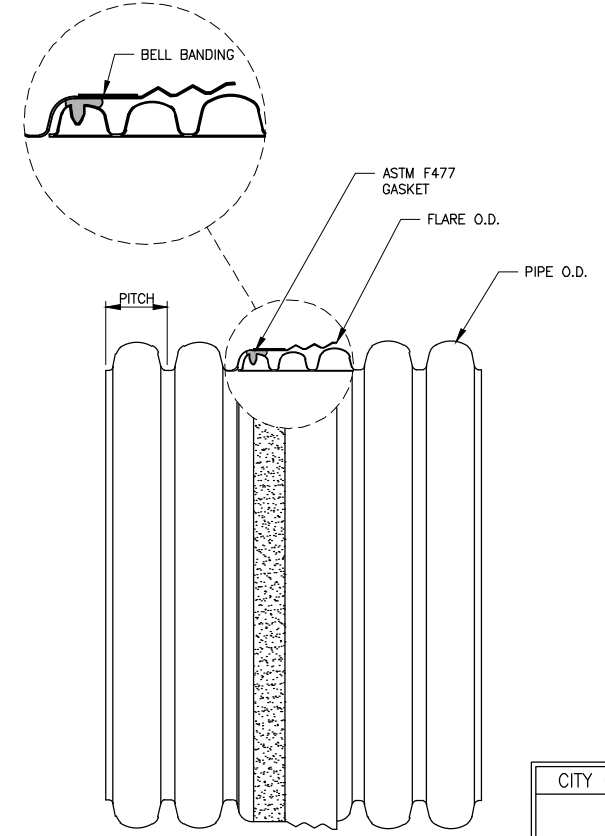
**UNDERDRAIN TRENCH
DETAIL 5**
NO SCALE



**UNDERDRAIN TRENCH CLEANOUT
DETAIL 6**
NO SCALE



**BEEHIVE GRATE
DETAIL 7**
NO SCALE



**PIPE JOINT CONNECTION
DETAIL 8**
NO SCALE

GENERAL NOTE:

- PROTECT INFILTRATION TRENCHES AND UNDERDRAIN TRENCHES FROM SEDIMENTATION DURING CONSTRUCTION.

CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

**REVISED 60% REVIEW SUBMITTAL
NOT FOR CONSTRUCTION**

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			B. PURGANAN
			P. JOHANNESSEN
			Y. HO

**ONE INCH AT FULL SCALE,
IF NOT, SCALE ACCORDINGLY**
 FILE NAME: BL1521075P19T03DD-01
 JOB No.: 1521-075 P19 T03
 DATE: JULY 2017



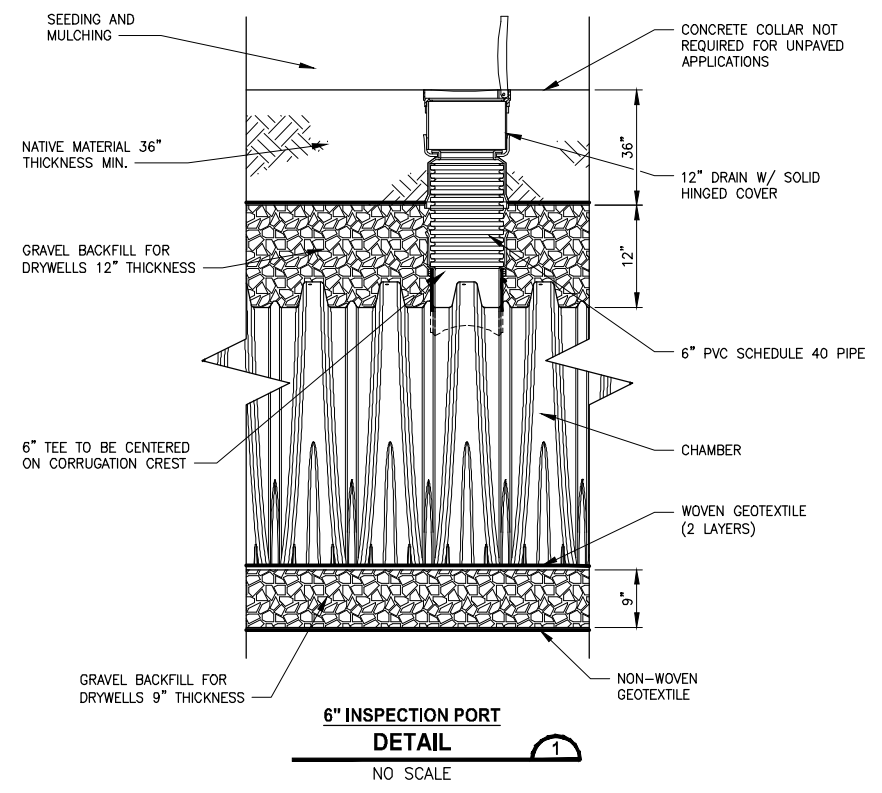
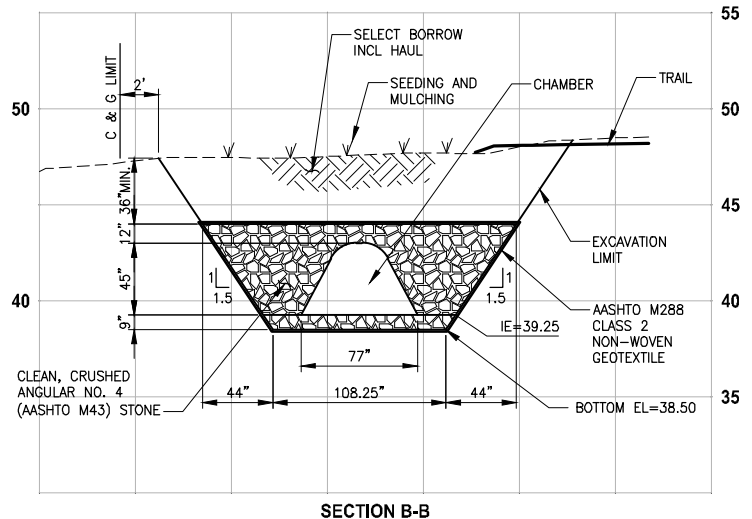
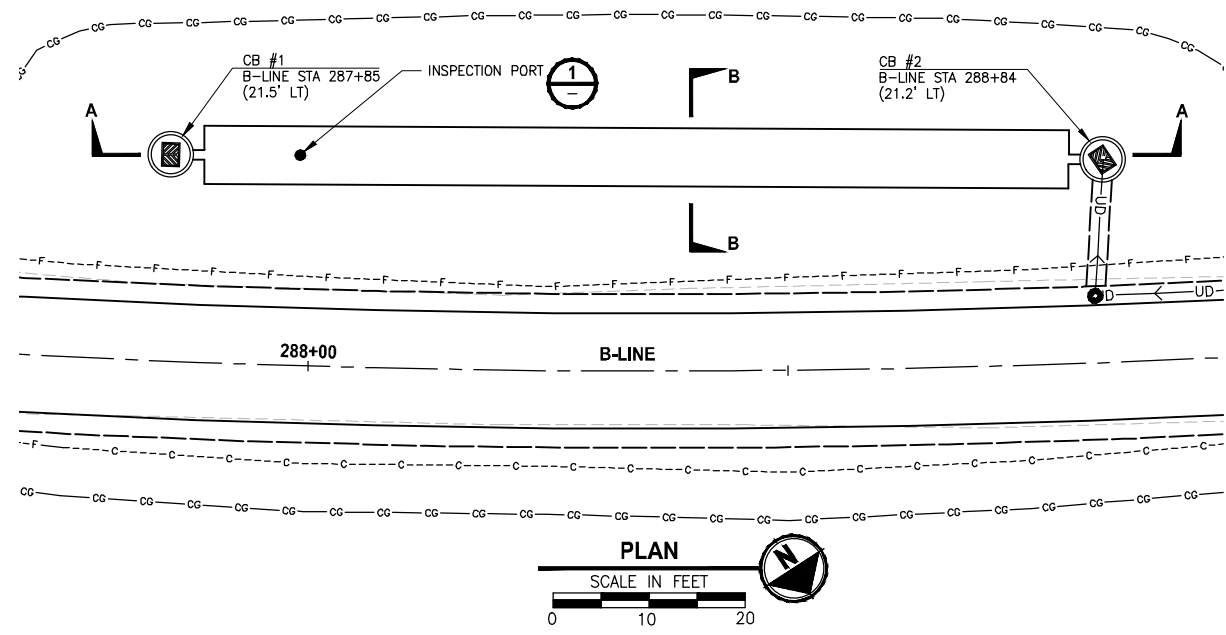
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PROJECT NAME:
**EAST LAKE SAMMAMISH
 MASTER PLAN TRAIL
 SOUTH SAMMAMISH SEGMENT B**
 SAMMAMISH, WA

DRAINAGE DETAILS

SHEET NO.
 96 OF 158
DD1

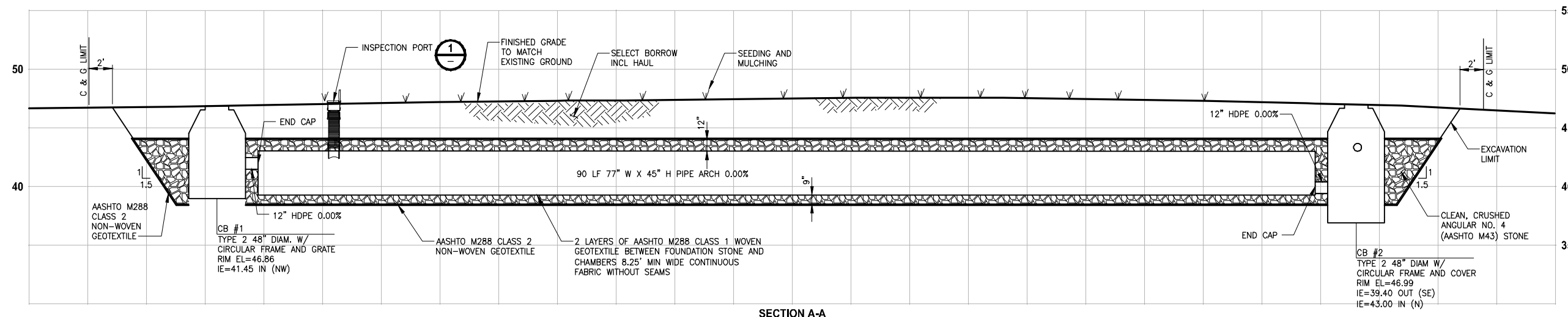
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 PLOTTED BY: purgaban DATE: Friday, July 07, 2017 5:18:33 PM



- STORMWATER CHAMBER SPECIFICATIONS:**
- CHAMBERS SHALL CONFORM TO REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
 - CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
 - CHAMBER SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
 - ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
 - CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

- NOTES FOR CONSTRUCTION EQUIPMENT:**
- CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S CONSTRUCTION GUIDE.
 - THE USE OF EQUIPMENT OVER CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE MANUFACTURER'S CONSTRUCTION GUIDE.
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE MANUFACTURER'S CONSTRUCTION GUIDE.
 - FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
 - USE OF A DOZER TO PUSH EMBEDMENT STONE AROUND THE CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING A "DUMP AND PUSH" METHOD MUST BE REPLACED AT THE FULL RESPONSIBILITY OF THE CONTRACTOR.

- BACKFILL AND COMPACTION NOTES:**
- FOR 9" CLEAN, CRUSHED, ANGULAR STONE BELOW CHAMBERS, PLATE COMPACT OR ROLL TO ACHIEVE 95% STANDARD PROCTOR DENSITY.
 - NO COMPACTION REQUIRED FOR GRAVEL BACKFILL FOR DRYWELLS PLACED AROUND AND 12-INCH DEPTH OVER CHAMBERS.
 - GRAVEL BACKFILL FOR DRYWELLS PLACED AROUND AND 12-INCH DEPTH OVER CHAMBERS MUST ALWAYS BE BROUGHT UP EVENLY WITH BACKFILL OF BED. MATERIAL MUST EXTEND HORIZONTALLY TO THE EXCAVATION WALL FOR EITHER STRAIGHT OR SLOPED EXCAVATED SIDEWALLS.
 - BEGIN COMPACTIONS AFTER 24" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" MAX LIFTS TO A MIN 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.



CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

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EAST LAKE SAMMAMISH MASTER PLAN TRAIL
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DRAINAGE DETAILS

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