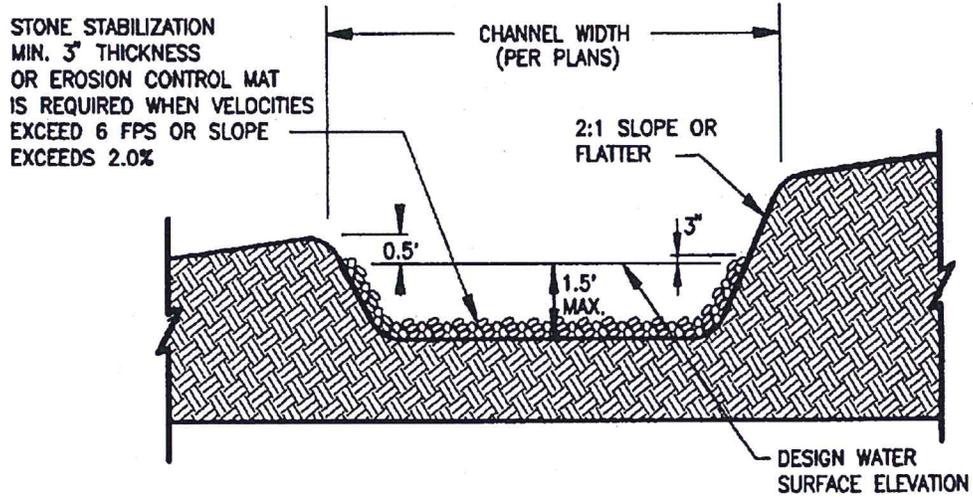


PLAN VIEW

N.T.S.



CROSS SECTION

N.T.S.

Figure B-1: Schematic Diagram of an Interceptor Swale

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

INTERCEPTOR
SWALE

CONSTRUCTION STANDARDS AND DETAILS



PC-1
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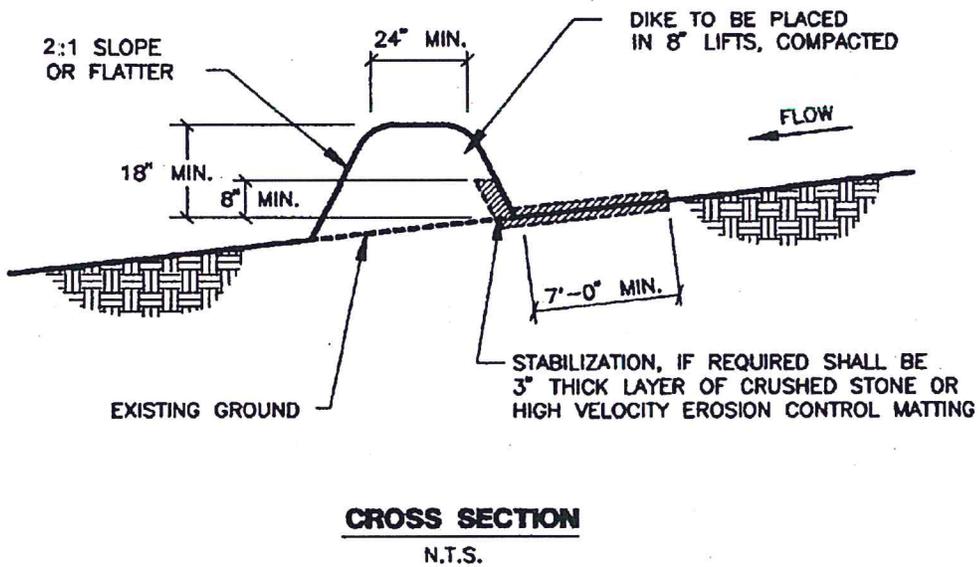
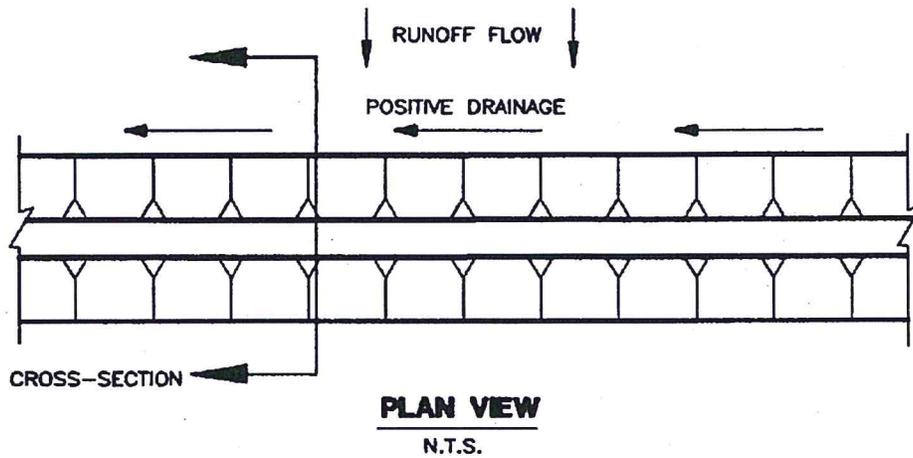


Figure B-2: Schematic of a Diversion Dike

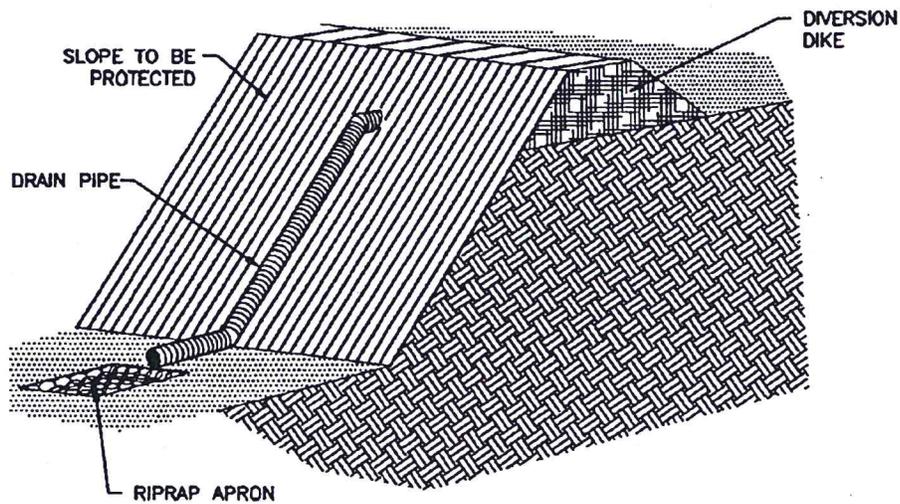
CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

DIVERSION DIKE
DETAIL

CONSTRUCTION STANDARDS AND DETAILS

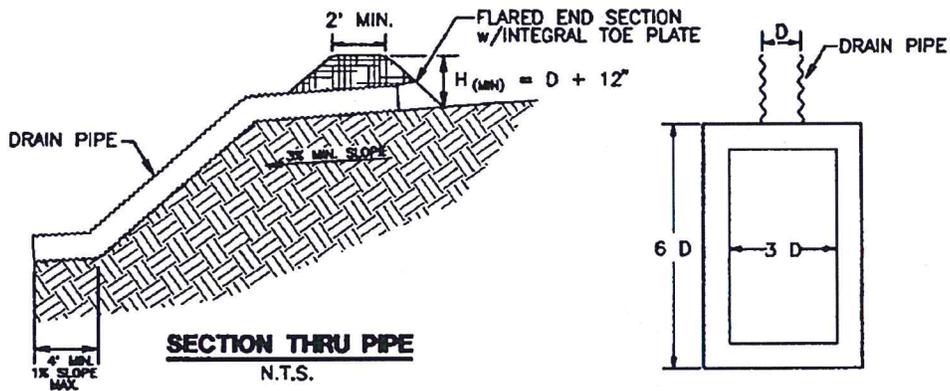


PC-2
SCALE: N.T.S.
ISSUE DATE: 07-24-12



ISOMETRIC PLAN VIEW

N.T.S.



SECTION THRU PIPE

N.T.S.

RIPRAP APRON PLAN VIEW

N.T.S.

RIPRAP SHALL CONSIST OF 50 TO 150 POUND STONES PLACED IN A LAYER OF NOT LESS THAN 12 INCHES. THE DEPTH OF THE APRON SHALL EQUAL THE PIPE DIAMETER BUT IN NO CASE SHALL IT BE LESS THAN 12 INCHES.

Figure B-3: Schematic Diagram of a Slope Drain

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

PIPE SLOPE DRAIN
DETAIL

CONSTRUCTION STANDARDS AND DETAILS



PC-3
SCALE: N.T.S.
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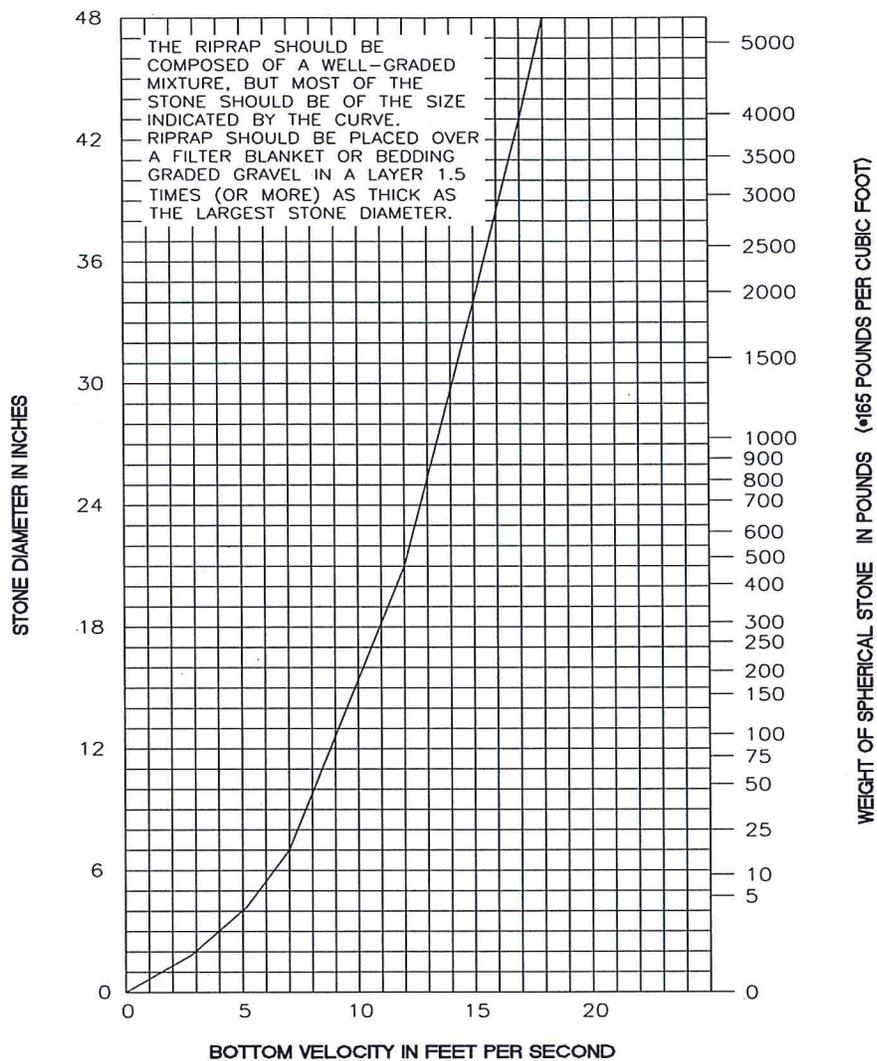


Figure B-4: Rock Riprap Size Selection

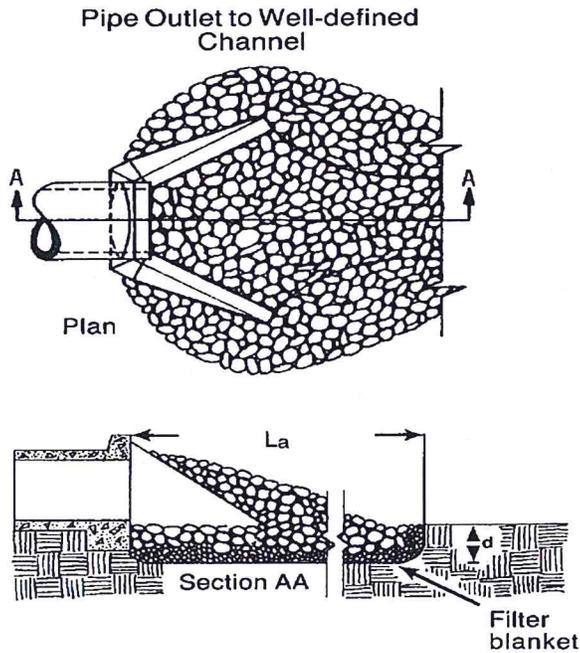
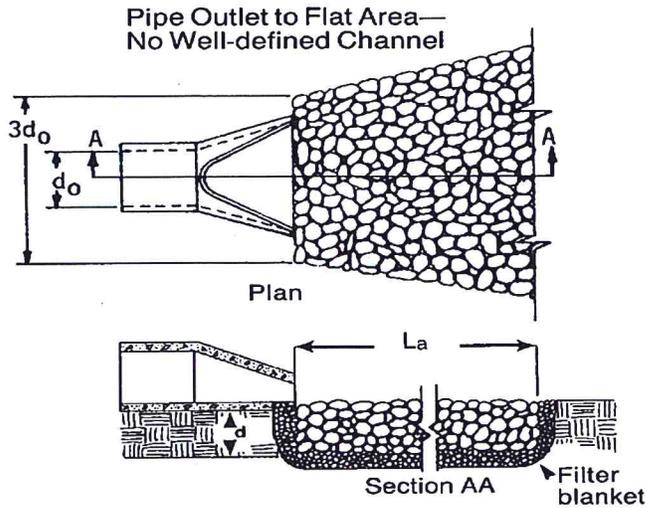
CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

ROCK RIPRAP
SIZE SELECTION

CONSTRUCTION STANDARDS AND DETAILS



PC-4
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ISSUE DATE: 07-24-12



Notes

1. L_a is the length of the riprap apron.
2. $d = 1.5$ times the maximum stone diameter but not less than 6".
3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth or to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the riprap and soil foundation.

Figure B-5: Schematic Riprap Outlet Design

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DEPARTMENT OF PUBLIC WORKS

RIPRAP OUTLET
DESIGN

CONSTRUCTION STANDARDS AND DETAILS



PC-5

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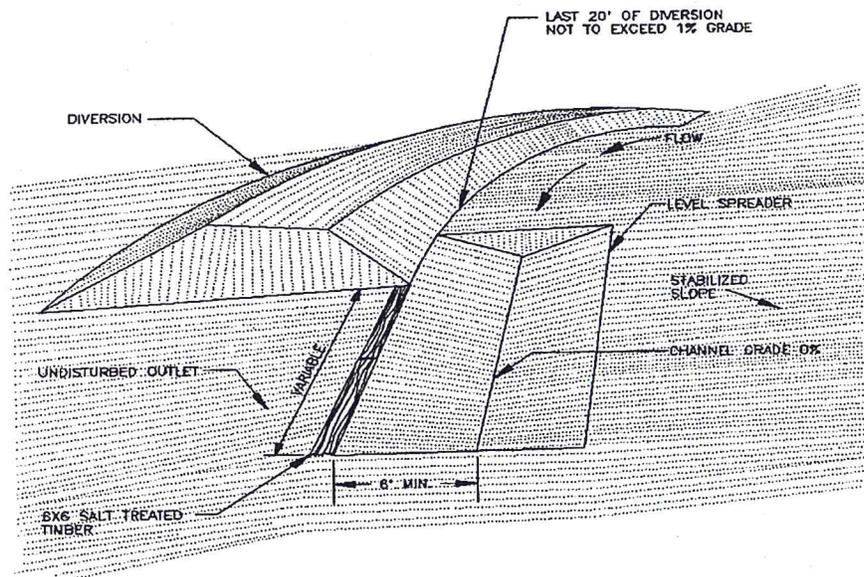
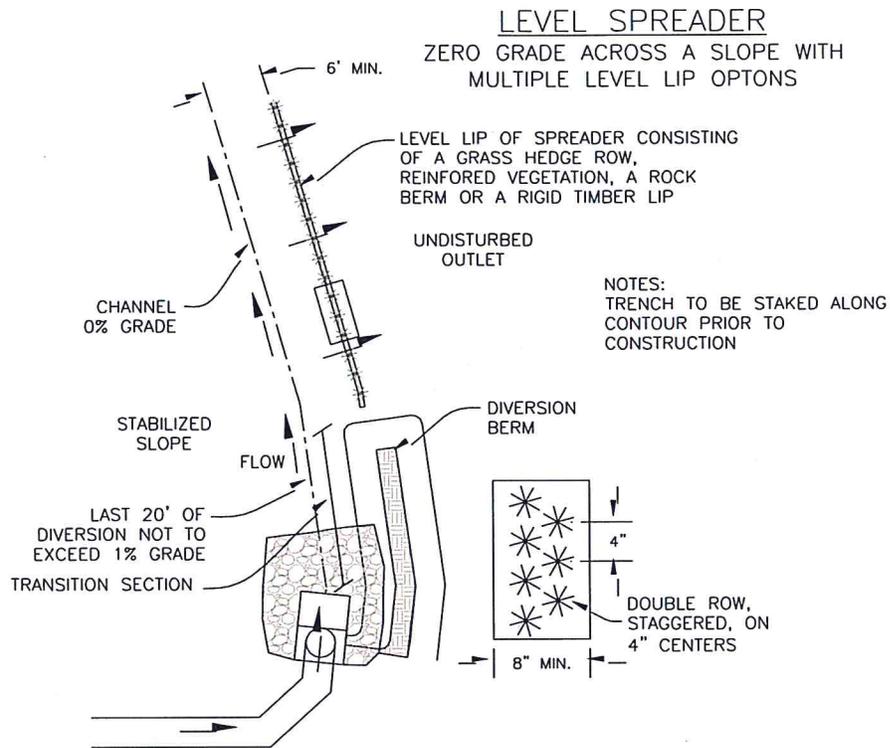


Figure B-6: Level Spreader Schematic and Perspective

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

**LEVEL SPREADER
SCHEMATIC AND PERSPECTIVE**

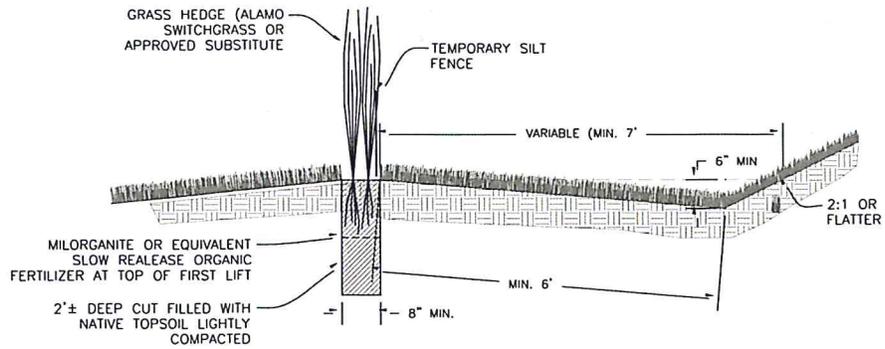
CONSTRUCTION STANDARDS AND DETAILS



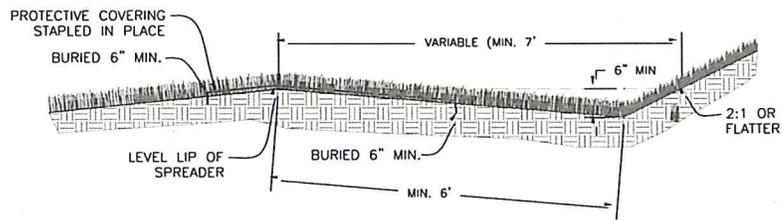
PC-6

SCALE: N.T.S.

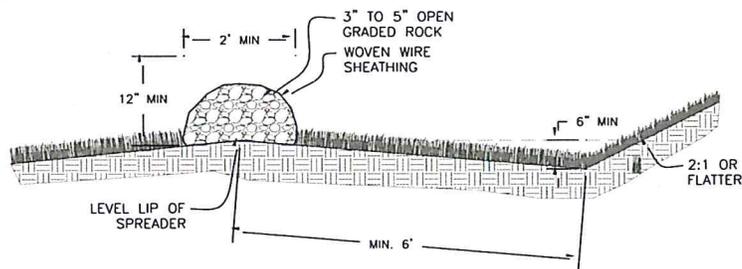
ISSUE DATE: 07-24-12



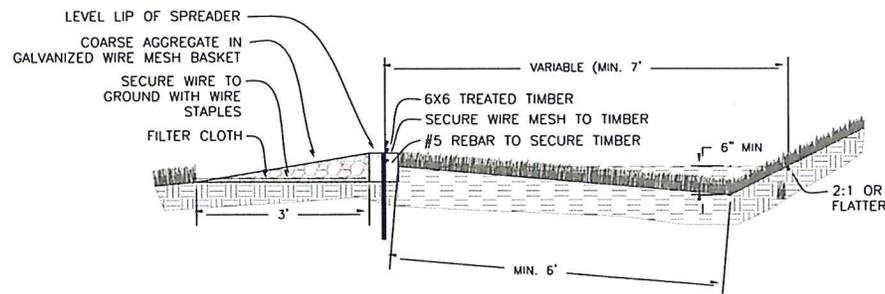
LEVEL SPREADER WITH GRASS HEDGE ROW



LEVEL SPREADER WITH REINFORCED VEGETATED LIP



LEVEL SPREADER WITH ROCK BERM LIP



LEVEL SPREADER WITH RIGID TIMBER LIP

Figure B-7: Level Spreader Lip Options

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

LEVEL SPREADER
LIP OPTIONS

CONSTRUCTION STANDARDS AND DETAILS



PC-7

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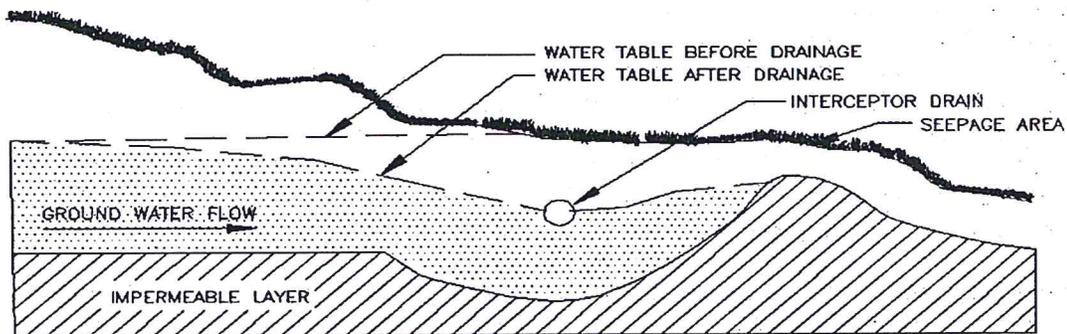


Figure B-8: Effect of Subsurface Drain

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DEPARTMENT OF PUBLIC WORKS

EFFECT OF
SUBSURFACE DRAIN

CONSTRUCTION STANDARDS AND DETAILS



PC-8
SCALE: N.T.S.
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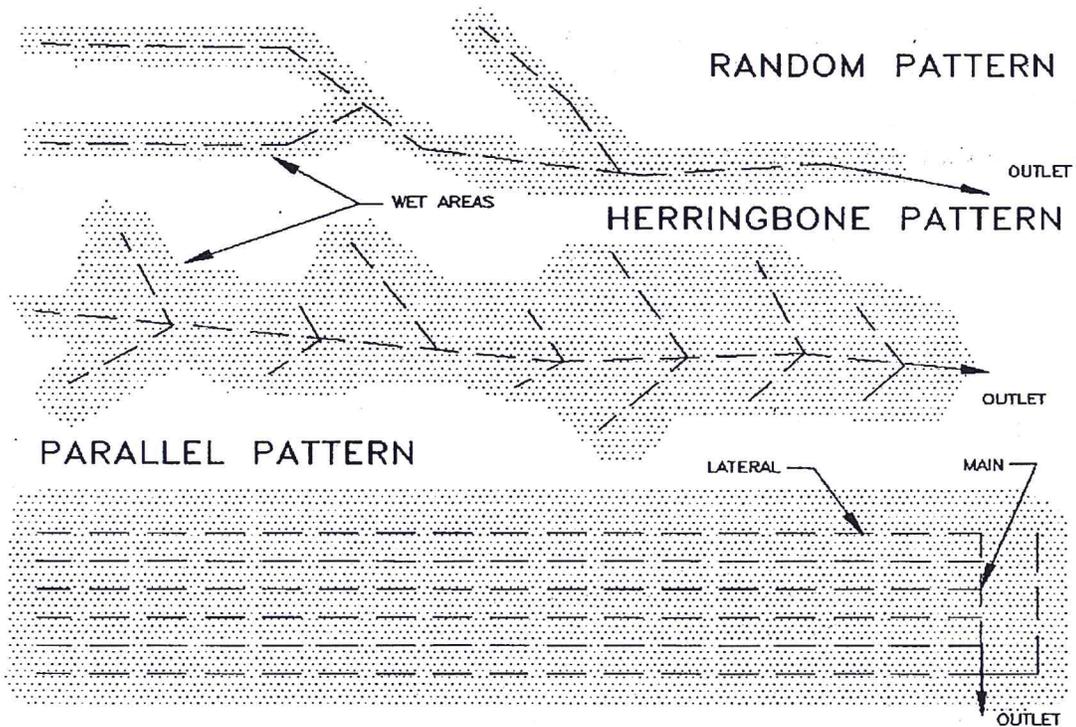


Figure B-9: Subsurface Drainage Patterns

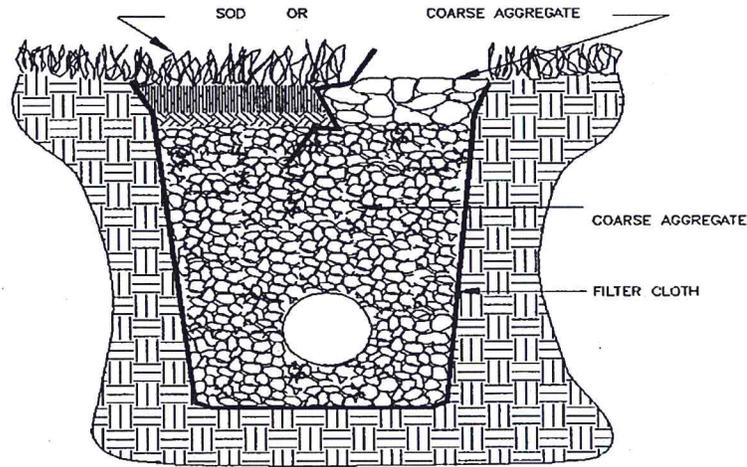
CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

SUBSURFACE
DRAINAGE PATTERNS

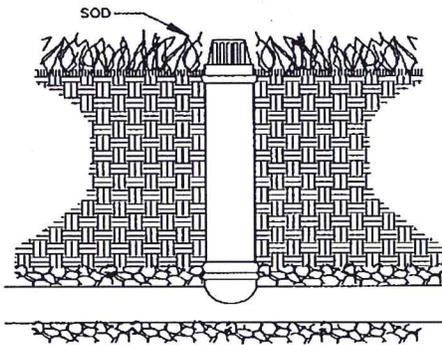
CONSTRUCTION STANDARDS AND DETAILS



PC-9
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NATURAL INLET



GRATED INLET

Figure B-10: Surface Inlets for Subsurface Drains Schematic

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SURFACE INLETS FOR
SUBSURFACE DRAINS SCHEMATIC

CONSTRUCTION STANDARDS AND DETAILS



PC-10
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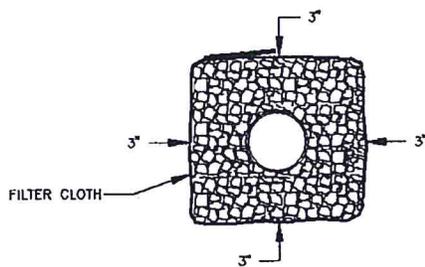


Figure B-11: Subsurface Drain Envelope Schematic

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**SUBSURFACE DRAIN
ENVELOPE SCHEMATIC**

CONSTRUCTION STANDARDS AND DETAILS



PC-11
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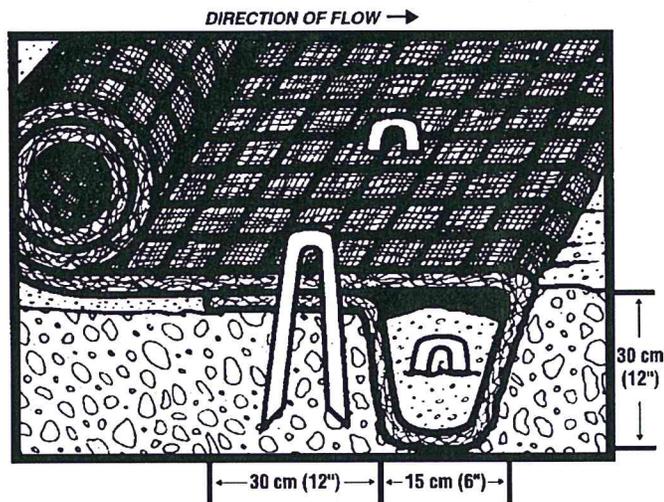


Figure B-12: Typical Initial Anchor Trench for Blankets and Mats

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

TYPICAL INITIAL ANCHOR TRENCH
FOR BLANKETS AND MATS

CONSTRUCTION STANDARDS AND DETAILS



PC-12
SCALE: N.T.S.
ISSUE DATE: 07-24-12

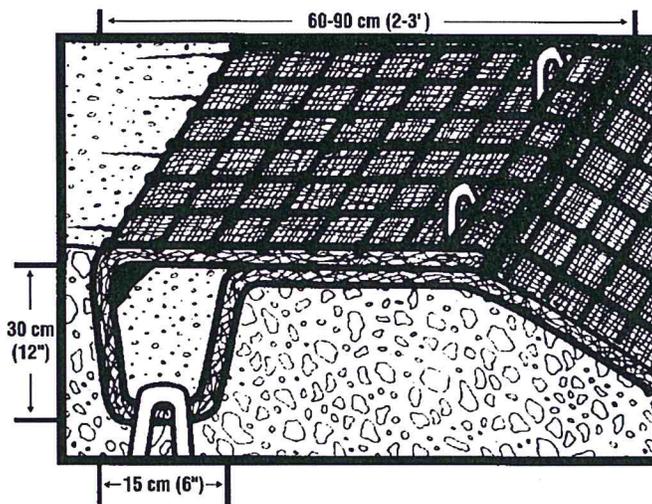


Figure B-13: Typical Terminal Anchor Trench for Blankets and Mats

CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

**TYPICAL TERMINAL ANCHOR TRENCH
 FOR BLANKETS AND MATS**

CONSTRUCTION STANDARDS AND DETAILS



PC-13
 SCALE: N.T.S.
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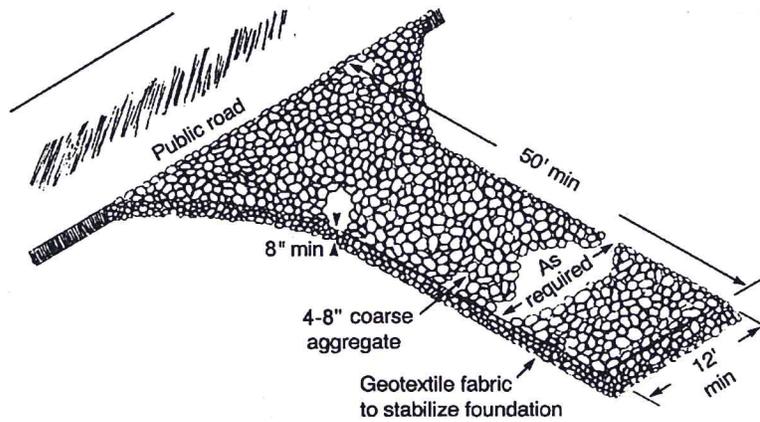


Figure B-14: Schematic of Temporary Construction Entrance/Exit

CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

**TEMPORARY CONSTRUCTION
 ENTRANCE/EXIT**

CONSTRUCTION STANDARDS AND DETAILS



PC-14
 SCALE: N.T.S.
 ISSUE DATE: 07-24-12

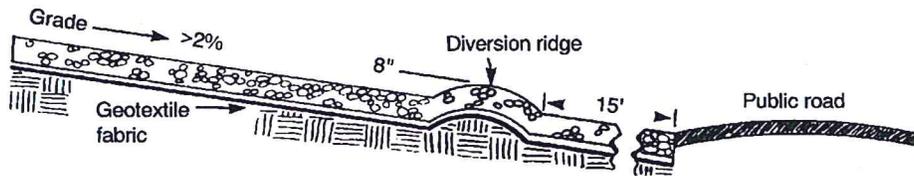


Figure B-15: Cross-section of a Construction Entrance/Exit

CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

**CROSS-SECTION OF A
 CONSTRUCTION ENTRANCE/EXIT**

CONSTRUCTION STANDARDS AND DETAILS



PC-15
 SCALE: N.T.S.
 ISSUE DATE: 07-24-12

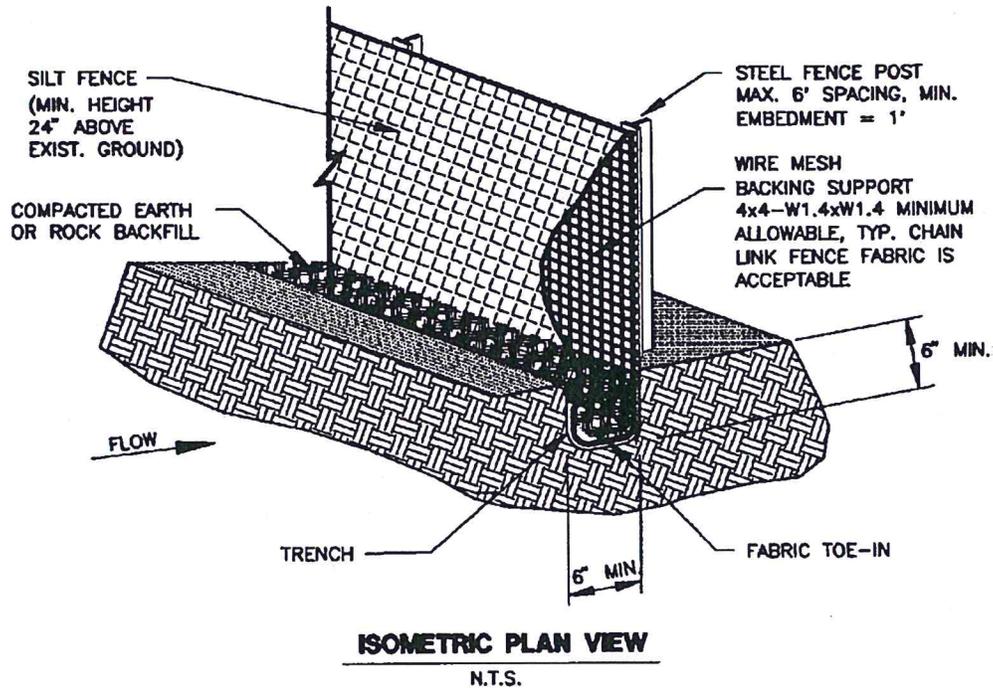


Figure B-16: Schematic of a Silt Fence Installation

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

**SILT FENCE
INSTALLATION**

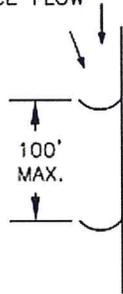
CONSTRUCTION STANDARDS AND DETAILS



PC-16
SCALE: N.T.S.
ISSUE DATE: 07-24-12

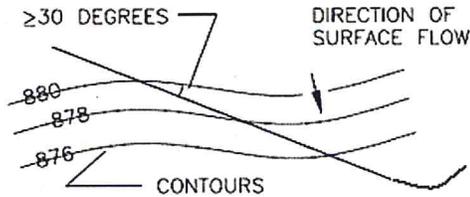
I. SPACING REQUIREMENTS

DIRECTION OF SURFACE FLOW



PLAN VIEW

NOTE:
J-HOOKS SHALL BE USED WHEN THE SILT FENCE IS INSTALLED AT AN ANGLE OF 30 DEGREES OR GREATER FROM PARALLEL TO THE CONTOURS.



II. SIZING REQUIREMENTS: J15, J25

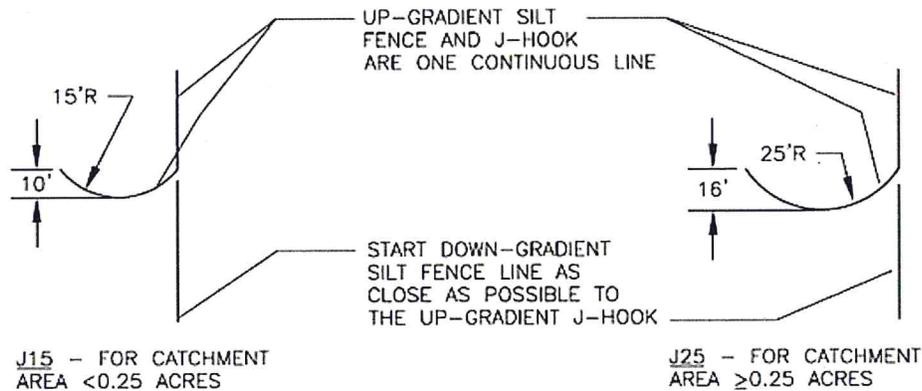


Figure B-17: Schematic J-hook Placement

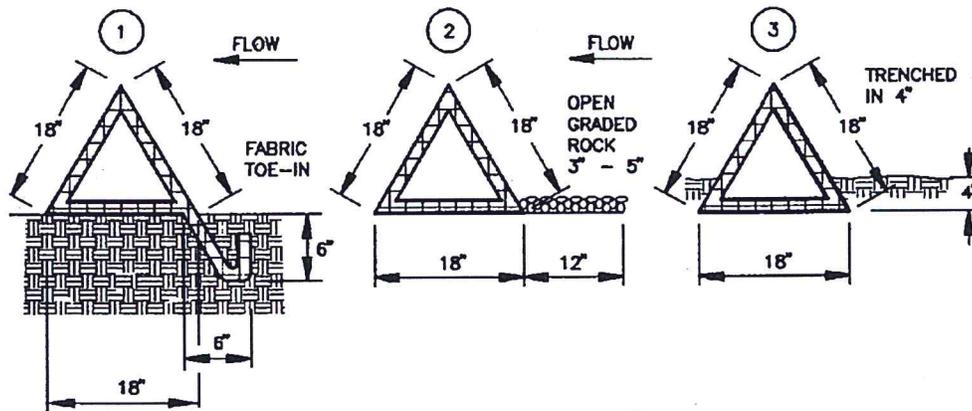
CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

J-HOOK
PLACEMENT

CONSTRUCTION STANDARDS AND DETAILS



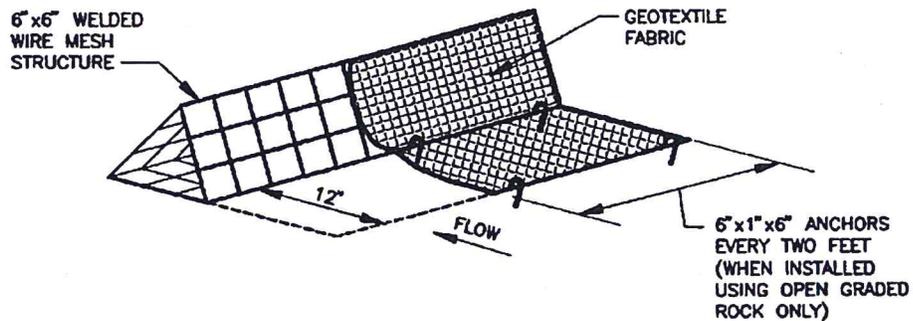
PC-17
SCALE: N.T.S.
ISSUE DATE: 07-24-12



CROSS SECTION OF INSTALLATION OPTIONS

N.T.S.

1. TOE-IN 6" MIN
2. WEIGHTED W/ 3" - 5" OPEN GRADED ROCK
3. TRENCHED IN 4"



ISOMETRIC PLAN VIEW

N.T.S.

Figure B-18: Schematic of a Triangular Filter Dike

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

TRIANGULAR
FILTER DIKE

CONSTRUCTION STANDARDS AND DETAILS



PC-18
SCALE: N.T.S.
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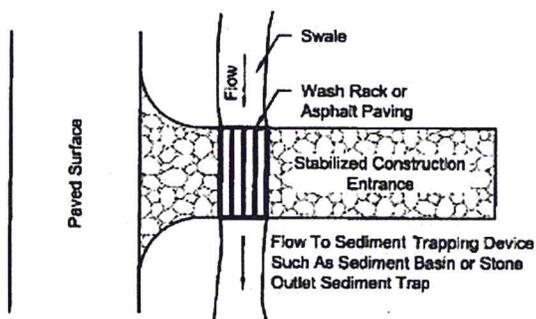


Figure B-19: Schematic Tire Wash Facility

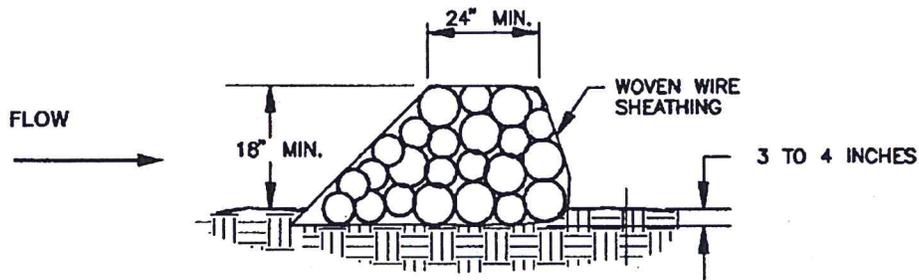
CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

**TIRE WASH
 FACILITY**

CONSTRUCTION STANDARDS AND DETAILS

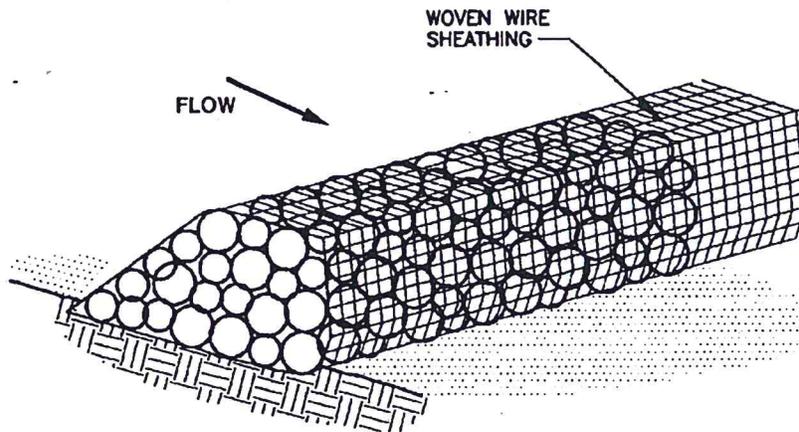


PC-19
 SCALE: N.T.S.
 ISSUE DATE: 07-24-12



CROSS SECTION

N.T.S.



ISOMETRIC PLAN VIEW

N.T.S.

Figure B-20: Schematic Diagram of a Rock Berm

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DEPARTMENT OF PUBLIC WORKS

ROCK BERM
DETAIL

CONSTRUCTION STANDARDS AND DETAILS



PC-20
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ISSUE DATE: 07-24-12

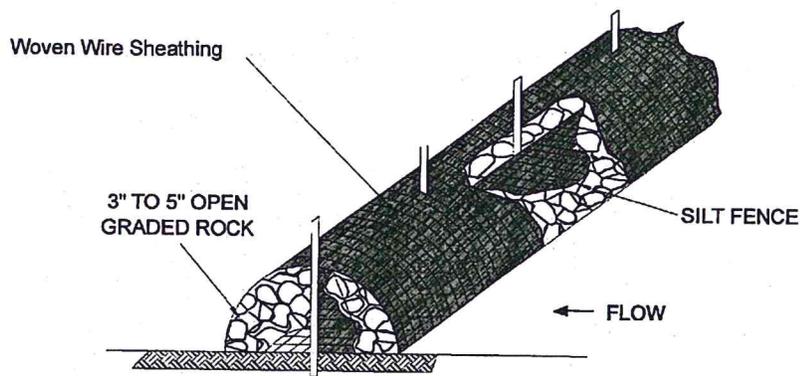
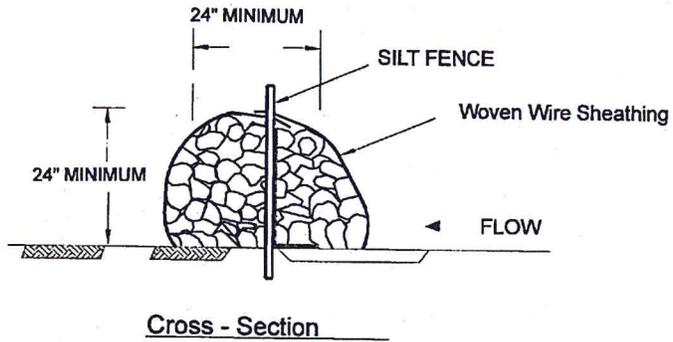


Figure B-21: Schematic Diagram of High Service Rock Berm

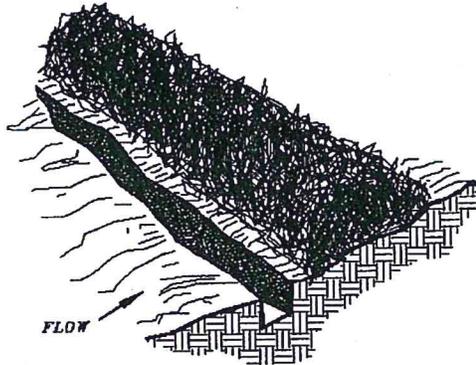
CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

**HIGH SERVICE
 ROCK BERM**

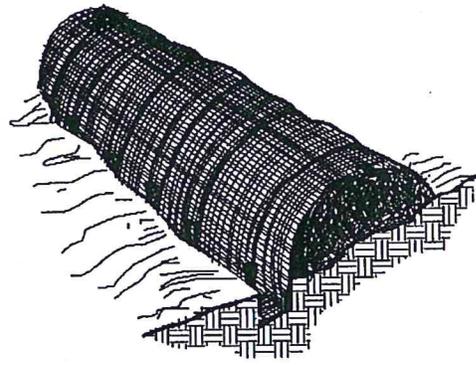
CONSTRUCTION STANDARDS AND DETAILS



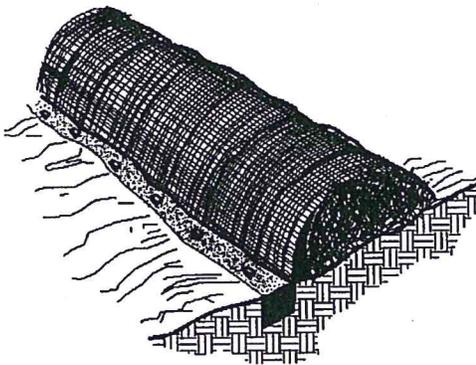
PC-21
 SCALE: N.T.S.
 ISSUE DATE: 07-24-12



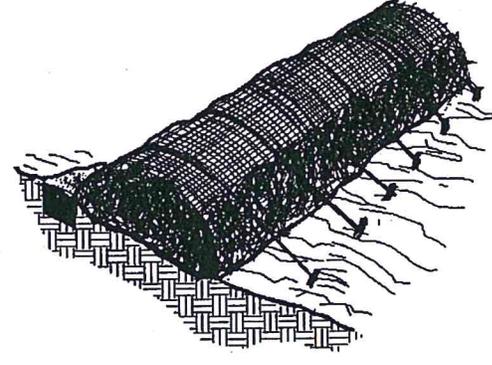
1. EXCAVATE A 4" X 4" TRENCH ALONG THE UPHILL EDGE OF THE BRUSH BARRIER.



2. DRAPE FILTER FABRIC OVER THE BRUSH BARRIER AND INTO THE TRENCH. FABRIC SHOULD BE SECURED IN THE TRENCH WITH STAKES SET APPROXIMATELY 36" O.C.



3. BACKFILL AND COMPACT THE EXCAVATED SOIL.



4. SET STAKES ALONG THE DOWNHILL EDGE OF THE BRUSH BARRIER, AND ANCHOR BY TYING TWINE FROM THE FABRIC TO THE STAKES.

Figure B-22: Schematic Diagram of a Brush Berm

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DEPARTMENT OF PUBLIC WORKS

BRUSH BERM
DETAIL

CONSTRUCTION STANDARDS AND DETAILS

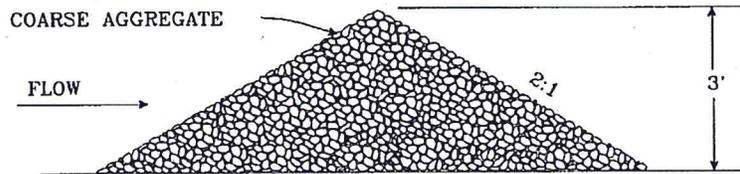
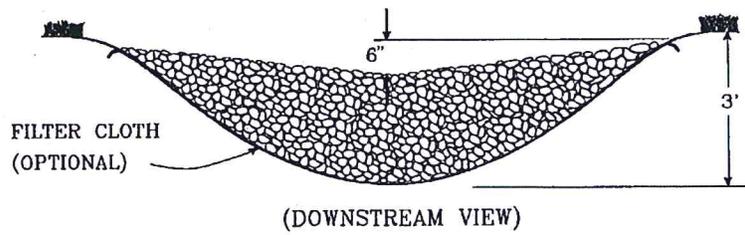


PC-22

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2 ACRES OR LESS OF DRAINAGE AREA:



2-10 ACRES OF DRAINAGE AREA:

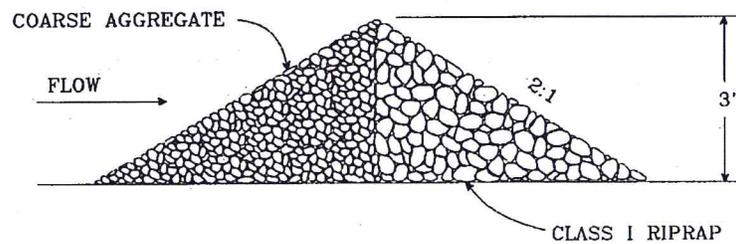
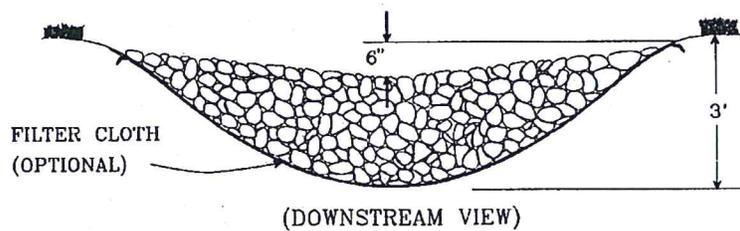


Figure B-23: Schematic Diagram of a Rock Check Dam

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

ROCK CHECK DAM
DETAIL

CONSTRUCTION STANDARDS AND DETAILS



PC-23
SCALE: N.T.S.
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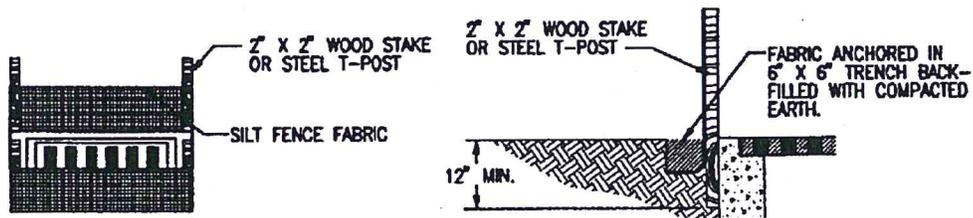


Figure B-24: Filter Fabric Inlet Protection

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DEPARTMENT OF PUBLIC WORKS

FILTER FABRIC
INLET PROTECTION

CONSTRUCTION STANDARDS AND DETAILS



PC-24
SCALE: N.T.S.
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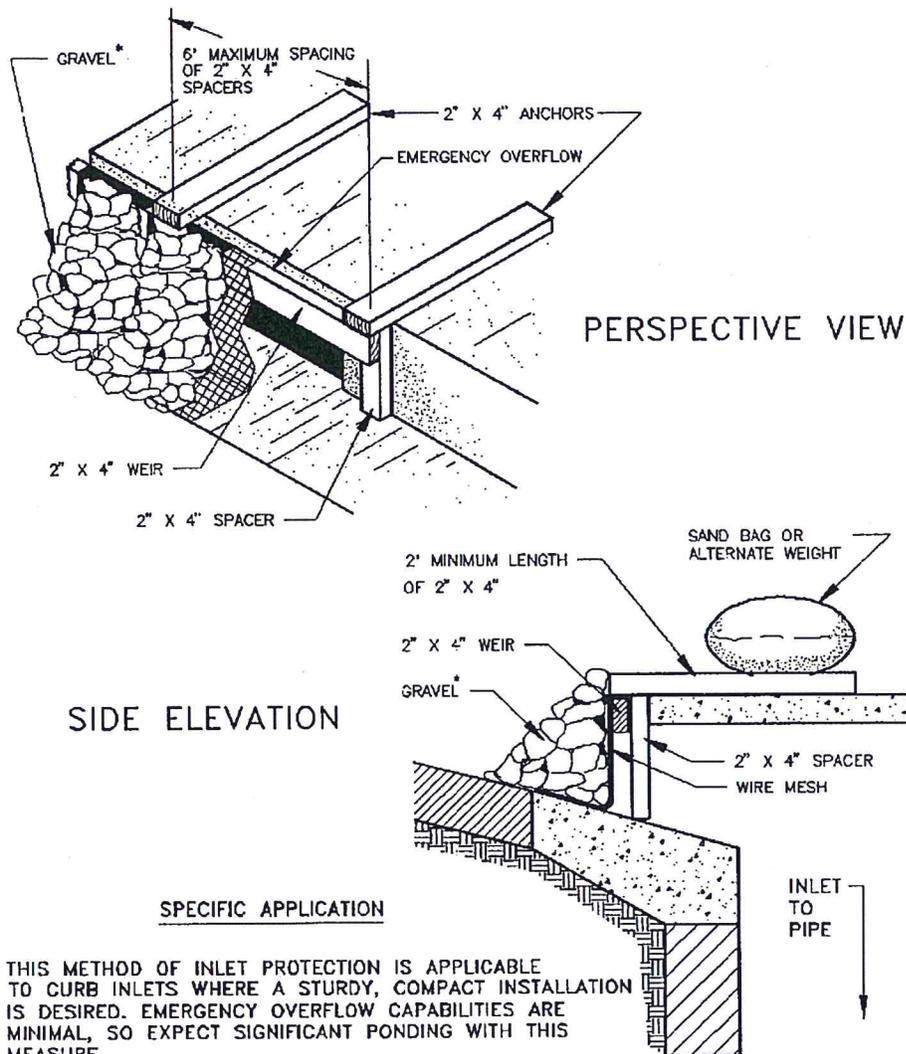


Figure B-25: Wooden Weir Curb Inlet Protection

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

WOODEN WEIR CURB INLET
PROTECTION

CONSTRUCTION STANDARDS AND DETAILS



PC-25
SCALE: N.T.S.
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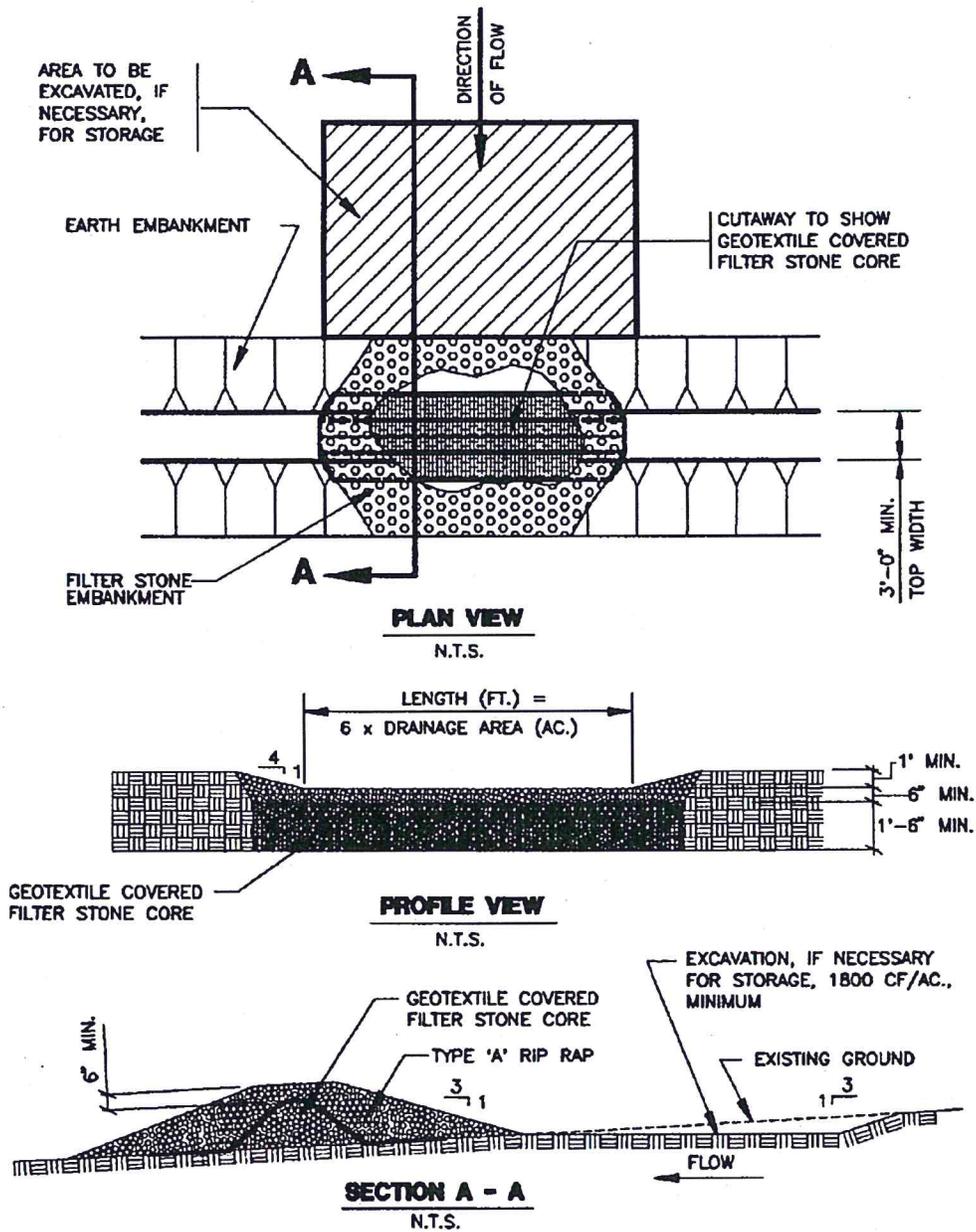


Figure B-26: Schematic Diagram of a Sediment Trap

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

SEDIMENT TRAP
DETAIL

CONSTRUCTION STANDARDS AND DETAILS



PC-26
SCALE: N.T.S.
ISSUE DATE: 07-24-12

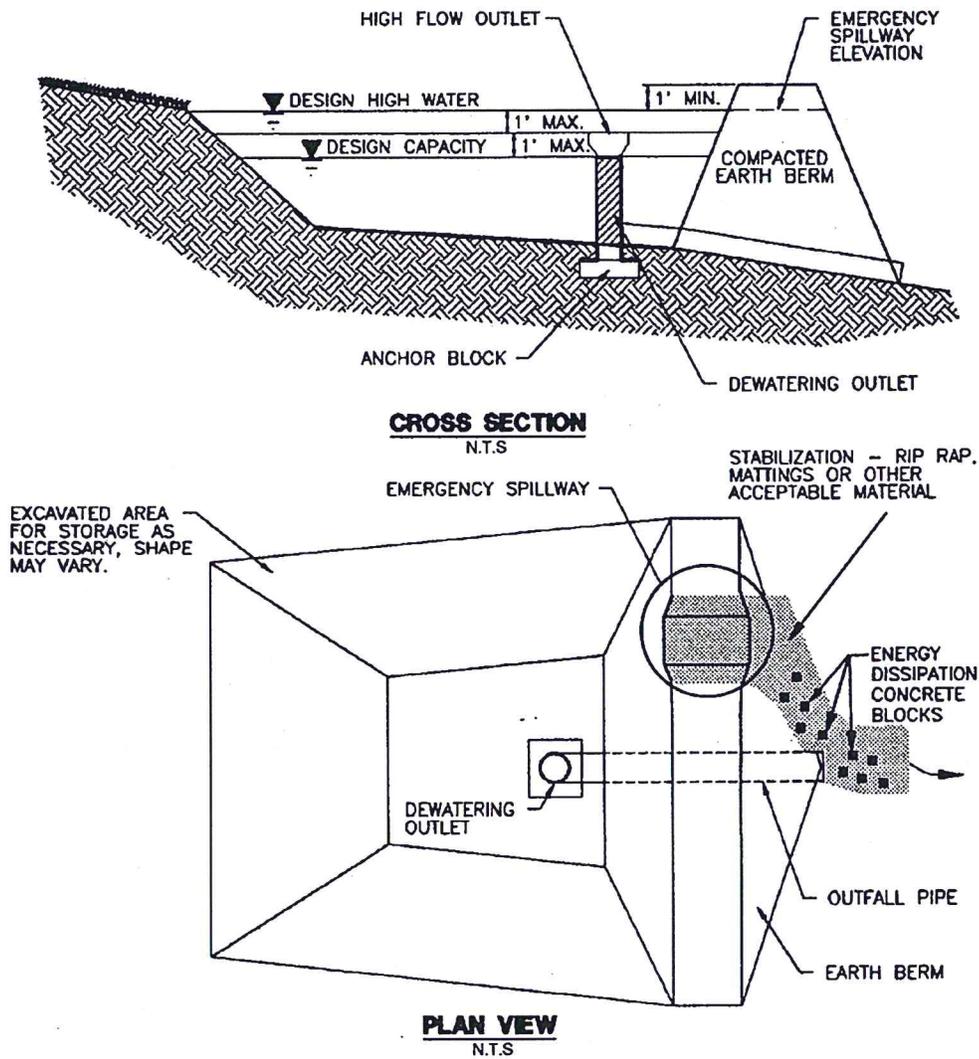


Figure B-27: Schematic of a Sediment Basin

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

SEDIMENT BASIN
DETAIL

CONSTRUCTION STANDARDS AND DETAILS



PC-27
SCALE: N.T.S.
ISSUE DATE: 07-24-12

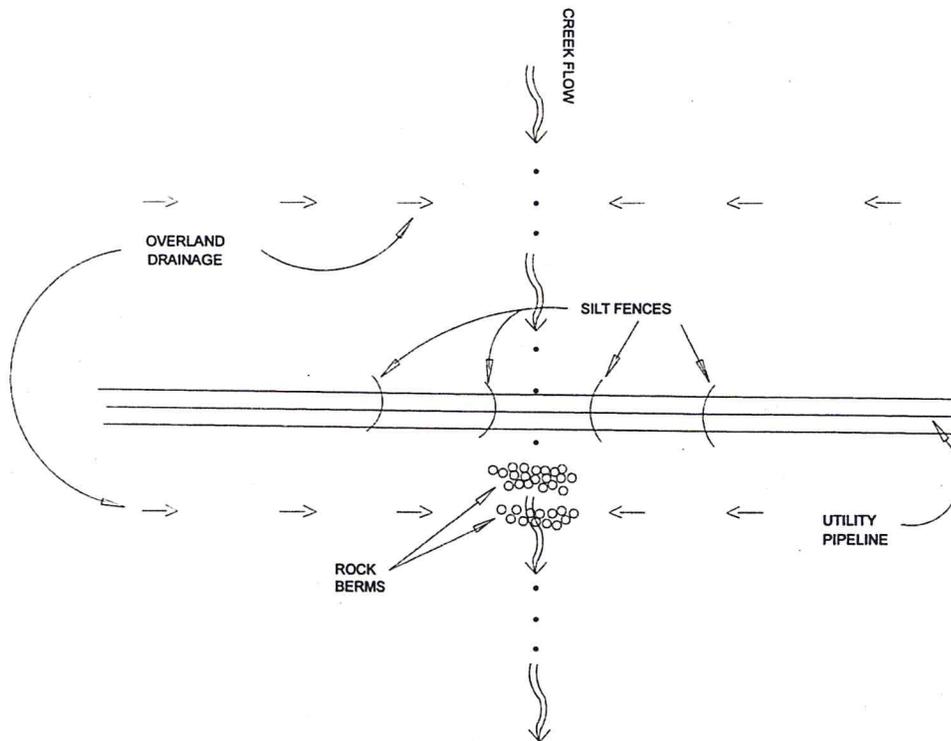


Figure B-28: Utility Crossing or Excavation within Creek Schematic

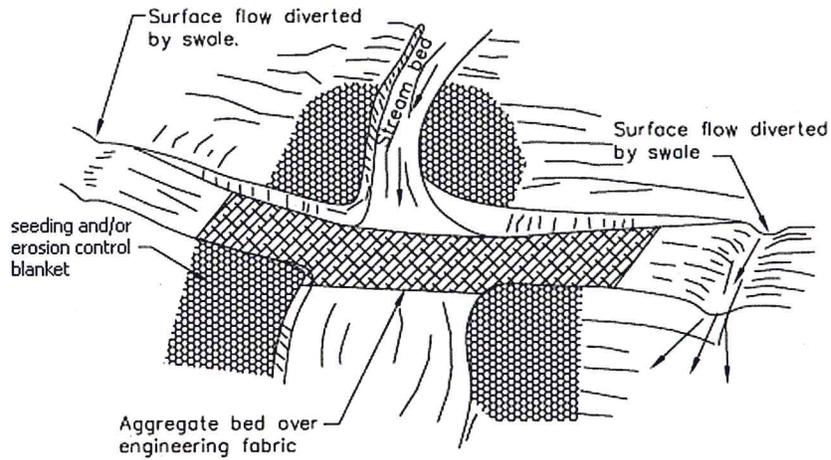
CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

**UTILITY CROSSING OR EXCAVATION
 WITHIN CREEK SCHEMATIC**

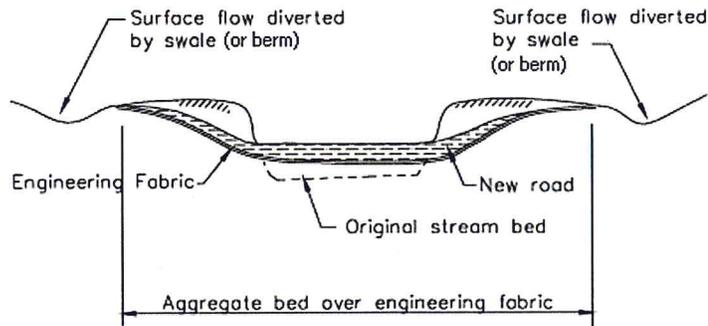
CONSTRUCTION STANDARDS AND DETAILS



PC-28
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Aggregate approach
1:5 (V:H) Maximum slope on road



TYPICAL FORD CROSSING
NOT TO SCALE

Figure B-29: Typical Temporary Ford Crossing Schematic

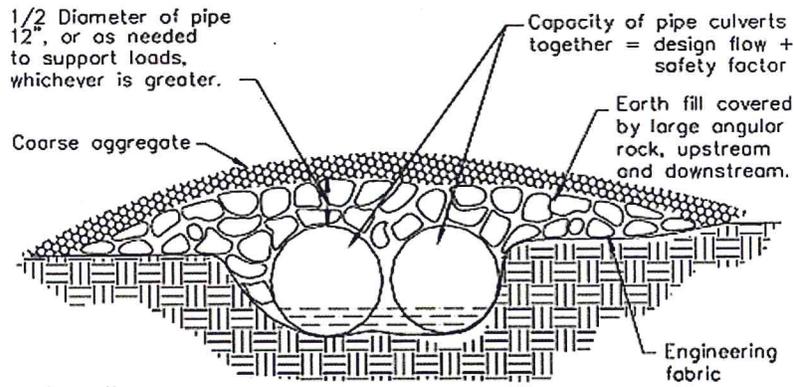
CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

**TYPICAL TEMPORARY
FORD CROSSING SCHEMATIC**

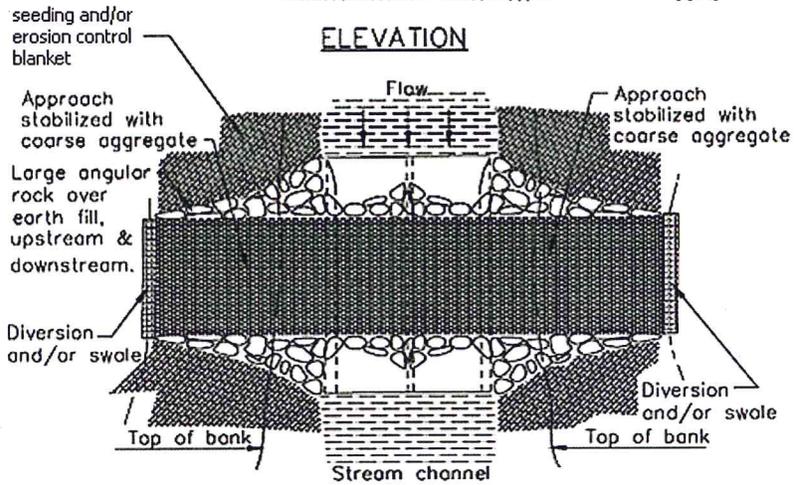
CONSTRUCTION STANDARDS AND DETAILS



PC-29
SCALE: N.T.S.
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ELEVATION



PLAN VIEW

**TYPICAL CULVERT CROSSING
NOT TO SCALE**

Figure B-30: Typical Temporary Culvert Crossing Schematic

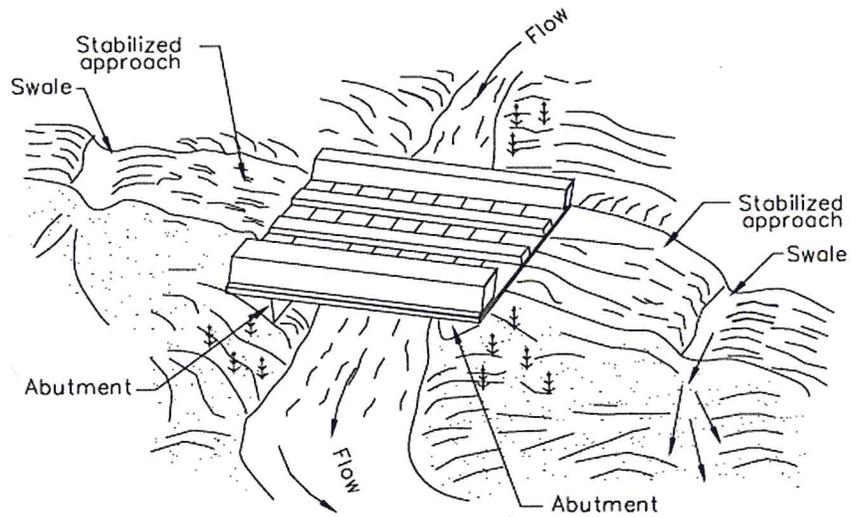
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DEPARTMENT OF PUBLIC WORKS**

**TYPICAL TEMPORARY
CULVERT CROSSING SCHEMATIC**

CONSTRUCTION STANDARDS AND DETAILS



PC-30
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NOTE:
Surface flow of road diverted
by swale and/or dike.

TYPICAL BRIDGE CROSSING
NOT TO SCALE

Figure B-31: Typical Temporary Bridge Crossing Schematic

CITY OF KILLEEN
DEPARTMENT OF PUBLIC WORKS

**TYPICAL BRIDGE
CROSSING**

CONSTRUCTION STANDARDS AND DETAILS



PC-31
SCALE: N.T.S.
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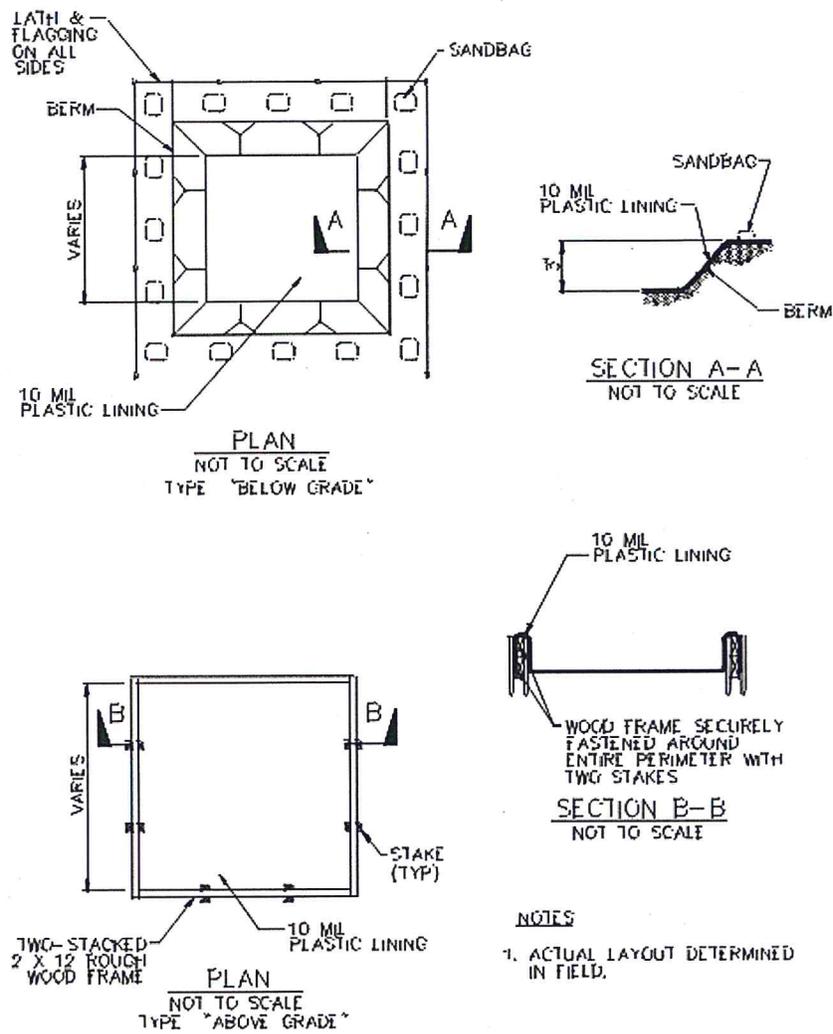


Figure B-32: Schematic Diagrams of Concrete Washout Areas

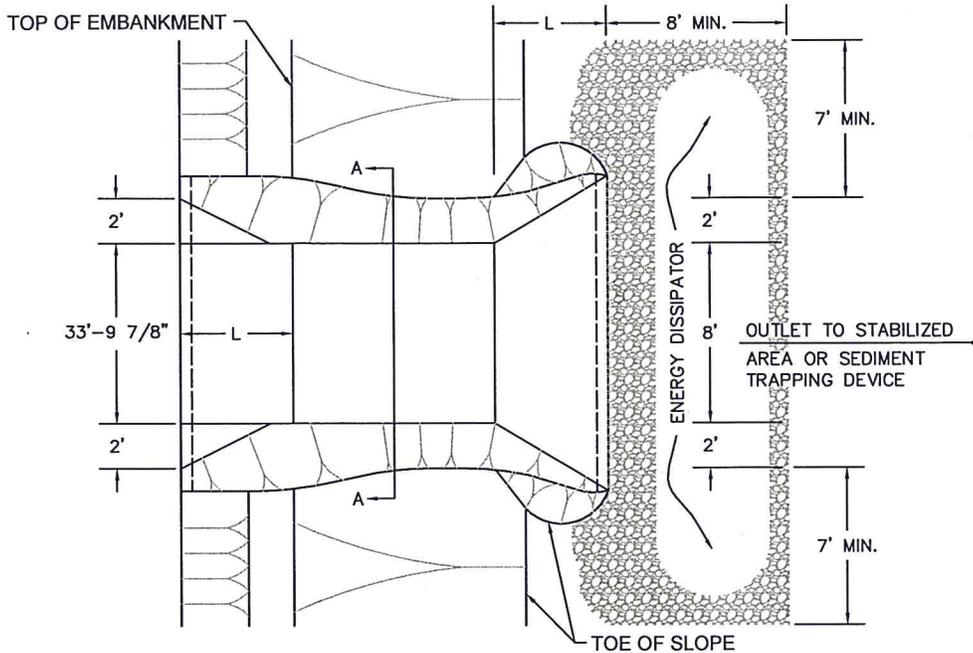
CITY OF KILLEEN
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CONCRETE WASHOUT
AREAS

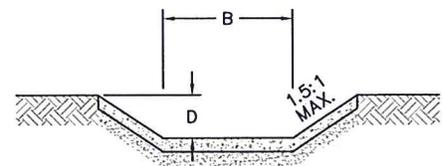
CONSTRUCTION STANDARDS AND DETAILS



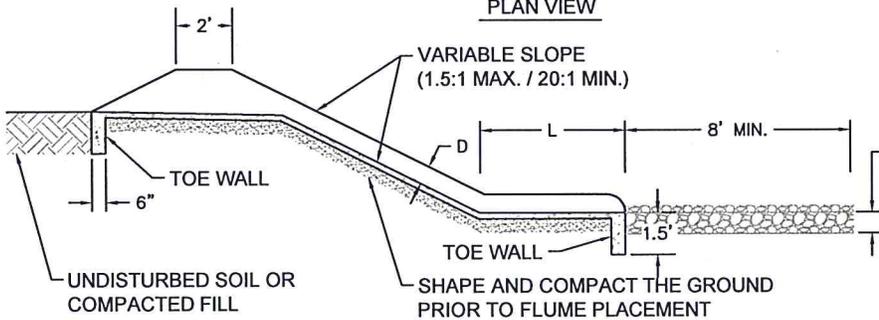
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ISSUE DATE: 07-24-12



PLAN VIEW



SECTION A - A



PROFILE VIEW

GENERAL NOTES

1. THE GROUP/SIZE IS A DESIGNATOR FOR THE DIMENSIONS OF THE PAVED FLUME. THE GROUP/SIZE IS DESIGNATED BY A LETTER (A OR B) AND THE BOTTOM (B) DIMENSION. THE APPROPRIATE SIZE SHALL BE INDICATED ON THE CONSTRUCTION PLANS.
2. FOR HIGH VELOCITY FLOWS, THE AGGREGATE OF THE ENERGY DISSIPATER SHOULD BE SECURED WITH 20-GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHOULD BE PLACED ON THE MESH TO THE DIMENSIONS SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
3. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

PAVED FLUME USAGE GUIDELINES

A PAVED FLUME SHOULD BE CONSTRUCTED TO DRAIN CONCENTRATED SURFACE RUNOFF SAFELY DOWN SLOPES WITHOUT CAUSING EROSION. THE DRAINAGE AREA CONTRIBUTING RUNOFF TO A PAVED FLUME SHOULD NOT EXCEED THAT GIVEN IN THE DESIGN CRITERIA ABOVE. THE PAVED FLUME SHOULD BE SIZED TO DRAIN THE PEAK RATE OF RUNOFF WITHOUT OVERTOPPING THE EMBANKMENT AT THE EARTH DIKE ENTRANCE. A 25 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

DESIGN CRITERIA					
GROUP / SIZE	B BOTTOM WIDTH	H MIN.	D MIN.	L MIN.	MAXIMUM DRAINAGE AREA
A-2	2'	1.5'	8"	5'	5 ACRES
A-4	4'	1.5'	8"	5'	8 ACRES
A-6	6'	1.5'	8"	5'	11 ACRES
A-8	8'	1.5'	8"	5'	14 ACRES
A-10	10'	1.5'	8"	5'	18 ACRES
B-4	4'	2'	10"	6'	14 ACRES
B-6	6'	2'	10"	6'	20 ACRES
B-8	8'	2'	10"	6'	25 ACRES
B-10	10'	2'	10"	6'	31 ACRES
B-12	12'	2'	10"	6'	36 ACRES

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

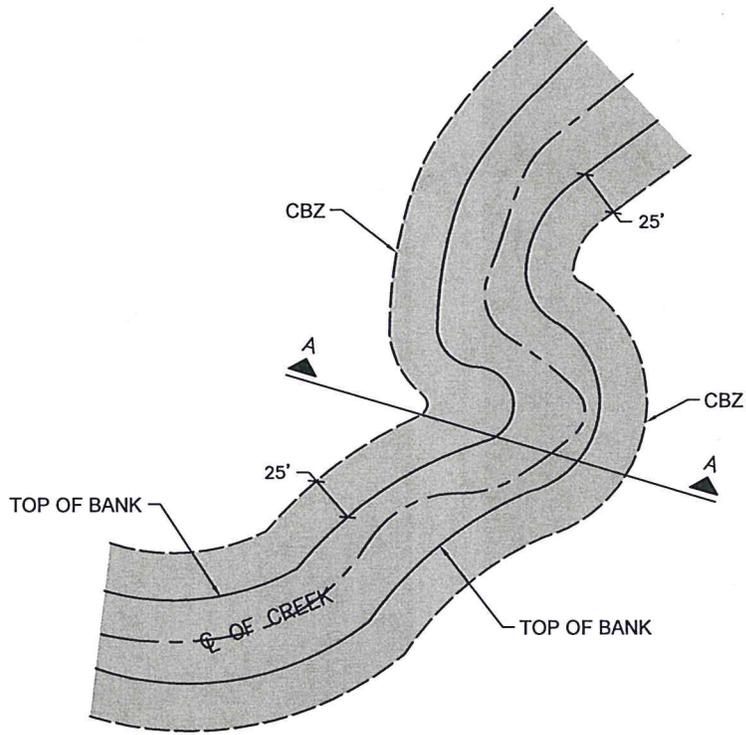
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**LINED WATERWAY
OR OUTLET**

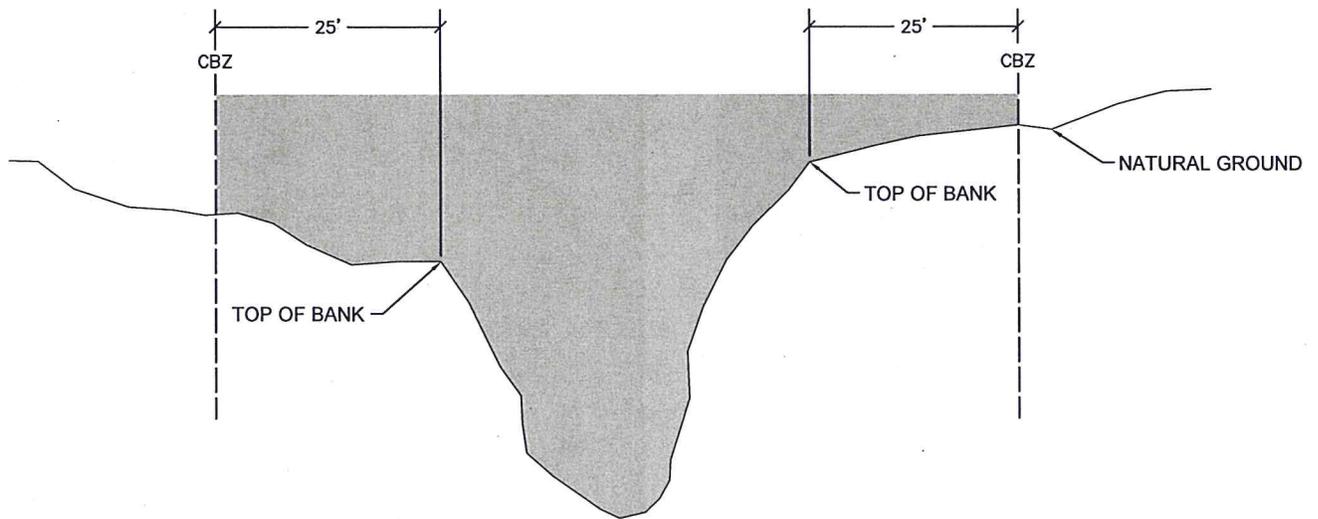
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PLAN VIEW



■ — CREEK BUFFER ZONE

PROFILE SECTION A-A

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

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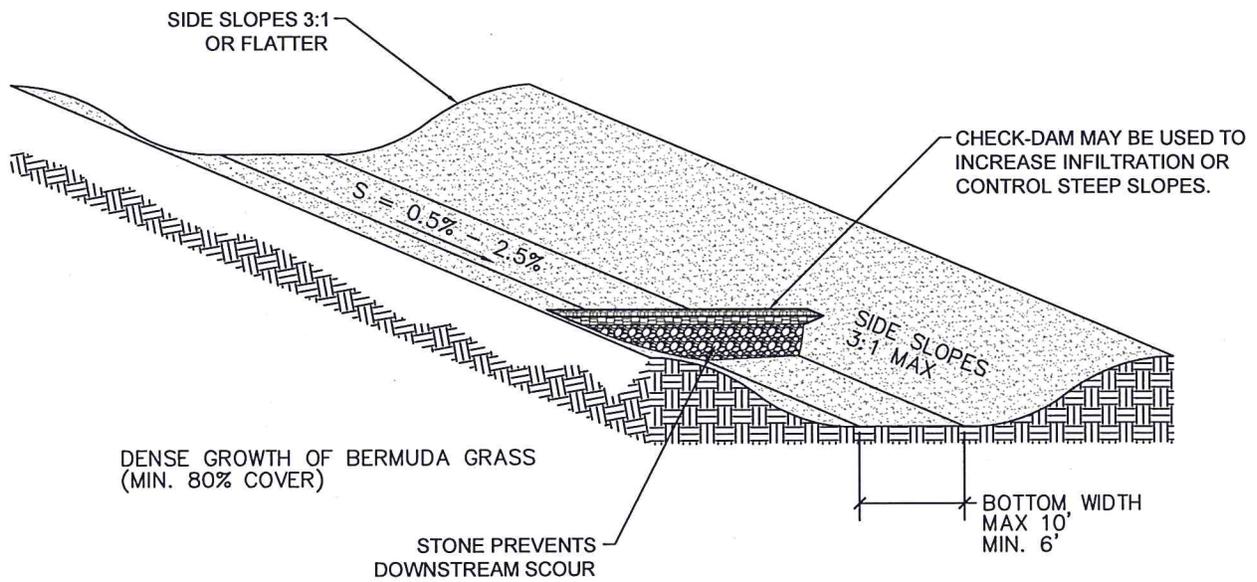
CREEK BUFFER ZONE

CONSTRUCTION STANDARDS AND DETAILS



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SWALE SLOPES AS CLOSE TO ZERO AS DRAINAGE WILL PERMIT



NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

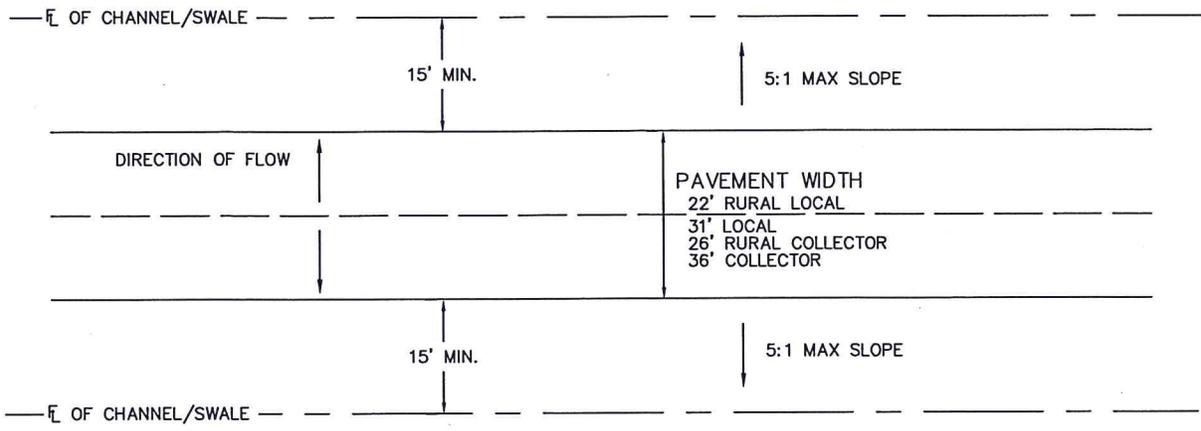
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VEGETATED
SWALES

CONSTRUCTION STANDARDS AND DETAILS

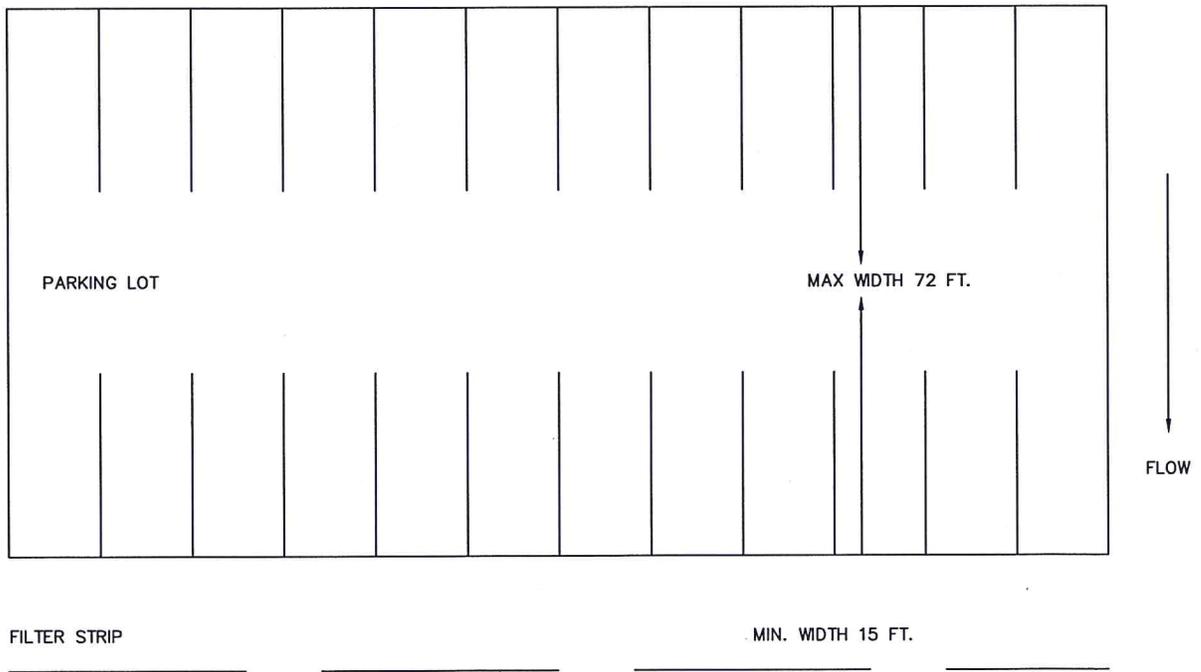


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NOTE 1: MINIMUM VEGETATIVE COVER (BERMUDA GRASS) = 80%

VEGETATED FILTER STRIP ALONG ROADWAY



VEGETATED FILTER STRIP ALONG PARKING LOT

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

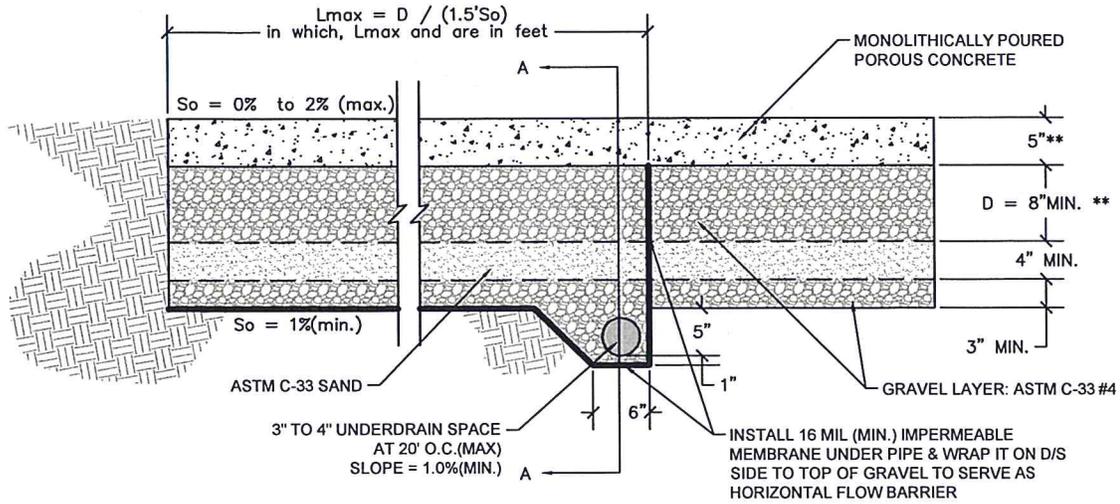
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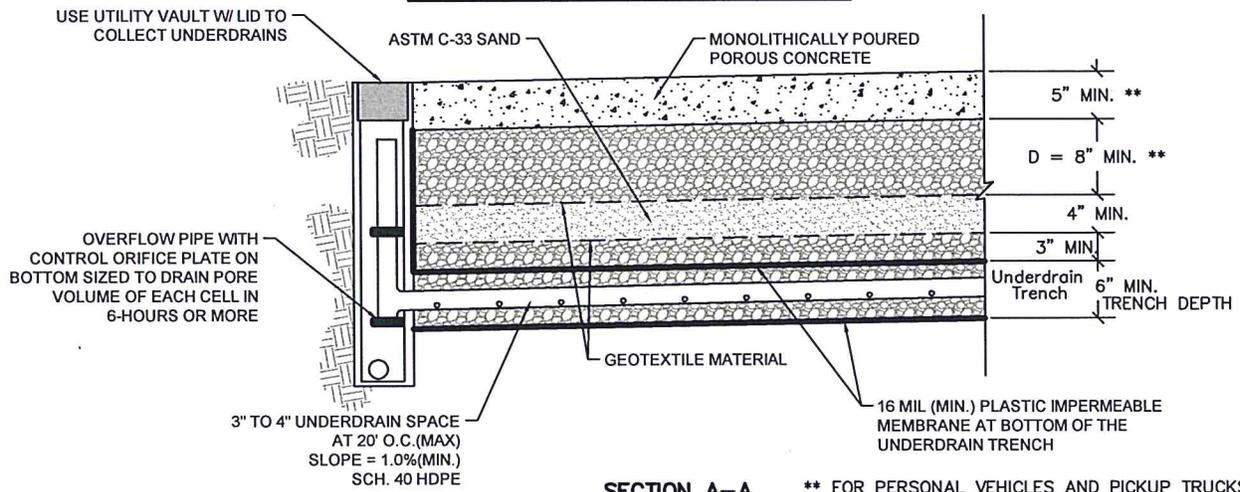
VEGETATED FILTER STRIPS

CONSTRUCTION STANDARDS AND DETAILS

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**POURED CONCRETE POROUS PAVEMENT (PCP)
SECTION WITH AN UNDERDRAIN SYSTEM**



** FOR PERSONAL VEHICLES AND PICKUP TRUCKS. THICKER SECTION MAY BE REQUIRED FOR HEAVIER VEHICLES. CONSULT WITH PAVEMENT ENGINEER FOR NEEDED THICKNESS OF CONCRETE SLAB.

SCHEMATIC OF PERMEABLE CONCRETE INSTALLATION (AFTER UCFCO, 2004)

RECOMMENDATIONS FOR PERMEABLE CONCRETE WITHOUT UNDERDRAIN

BASE MATERIALS: BASE MATERIAL MUST CONSIST OF CLEAN, DURABLE, ASTM C-33 NO.4 AGGREGATE 8 INCHES THICK.

GEOTEXTILE FABRIC: A LAYER OF GEOTEXTILE FABRIC COMPLYING WITH THE MINIMUM SPECIFICATIONS LISTED BELOW ARE TO BE PLACED ON TOP OF THE NATURAL SUBSOIL PRIOR TO PLACING BASE MATERIAL. THE FABRIC SHOULD BE EXTENDED UP THE THE NATURAL EARTH SIDES AND OVER THE TOP OF ANY ADJACENT BERM. THE PURPOSE OF THE FABRIC IS TO PREVENT MIGRATION OF FINE MATERIAL FROM SUBSOIL INTO THE GRAVEL.

PROPERTY	TEST METHOD	UNIT	SPECIFICATIONS
Unit Weight		oz/yd ²	8
Filtration Rate		in/sec	0.08
Puncture Strength	ASTM D-751*	lb	125
Mullen Burst Strength	ASTM D-751	psi	400
Tensile Strength	ASTM D-1682	lb	200
Equiv. Opening Size	US Standard Sieve	No.	80

*modified

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

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**POROUS
CONCRETE**

CONSTRUCTION STANDARDS AND DETAILS



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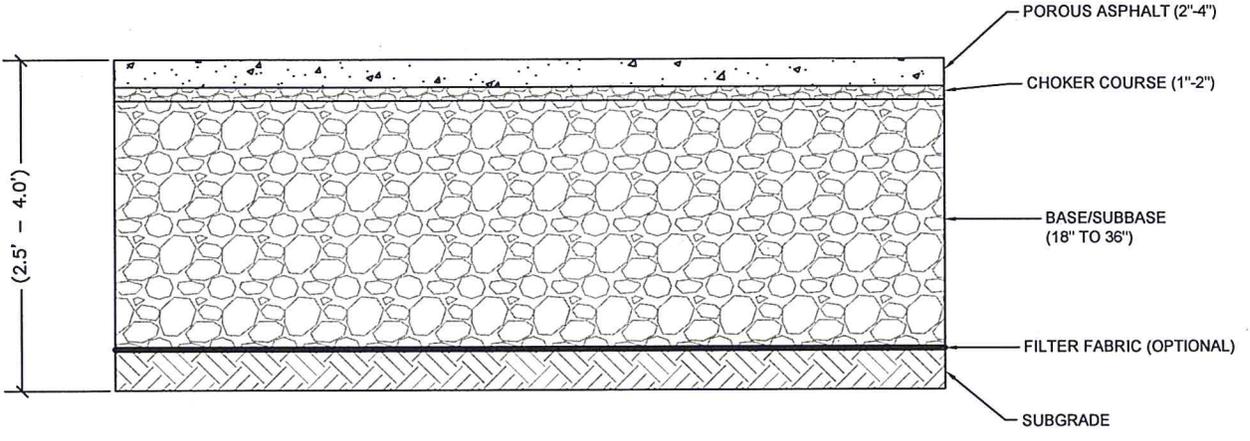


TABLE 1. ASPHALT MIX (ADAMS, 2003)

SIEVE SIZE	% PASSING
1/2 IN	100
3/8 IN	95
#4	35
#8	15
#16	10
#30	2

PERCENT BITUMINOUS ASPHALT 5.75-6.0% BY WEIGHT

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

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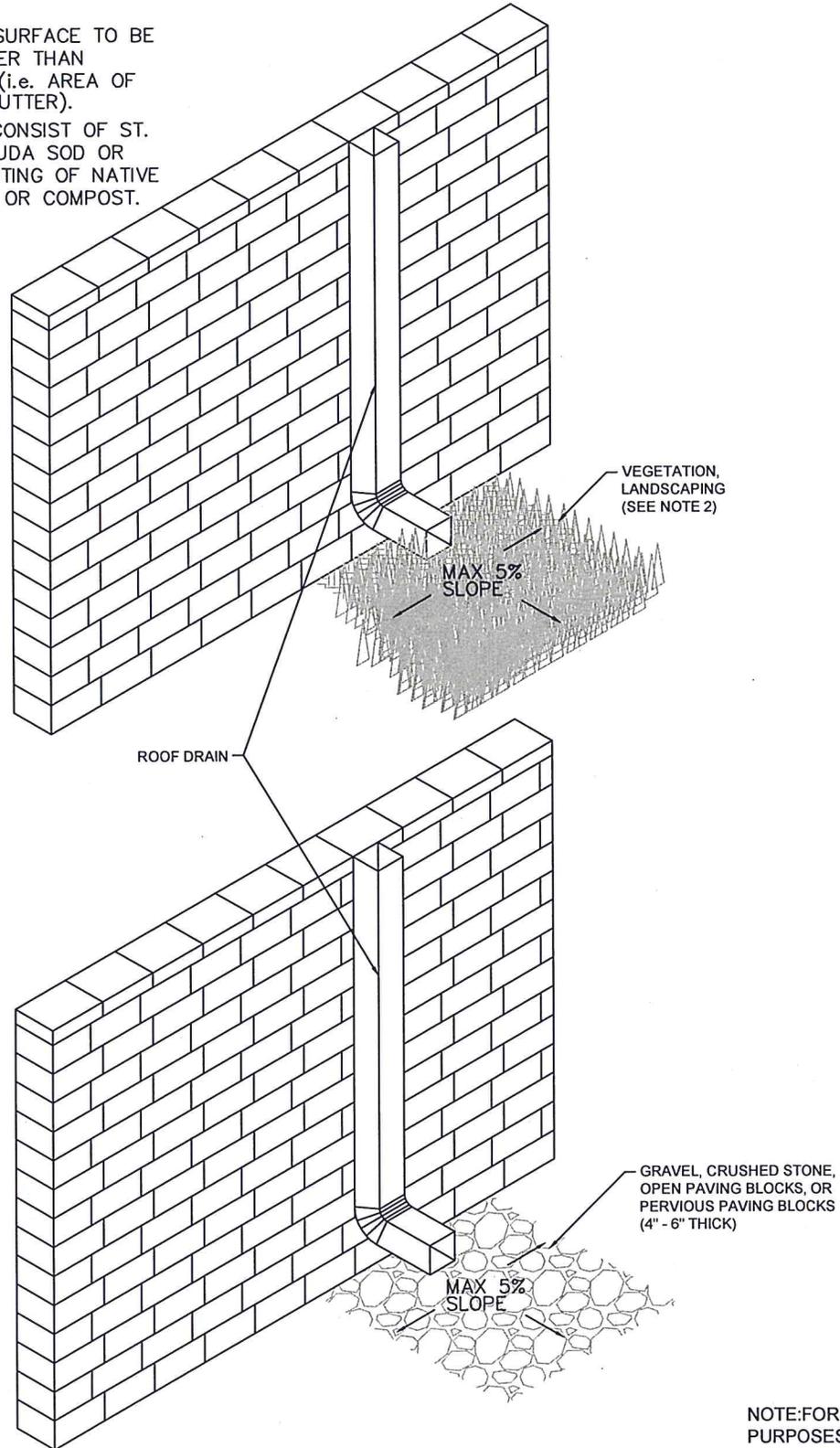
**POROUS
ASPHALT**

CONSTRUCTION STANDARDS AND DETAILS

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NOTES:

- 1) AREA OF PERVIOUS SURFACE TO BE EQUAL TO OR GREATER THAN CONTRIBUTING AREA (i.e. AREA OF ROOF DRAINING TO GUTTER).
- 2) VEGETATION SHALL CONSIST OF ST. AUGUSTINE OR BERMUDA SOD OR LANDSCAPING CONSISTING OF NATIVE PLANTS WITH MULCH OR COMPOST.



NOTE: FOR ILLUSTRATIVE PURPOSES ONLY.

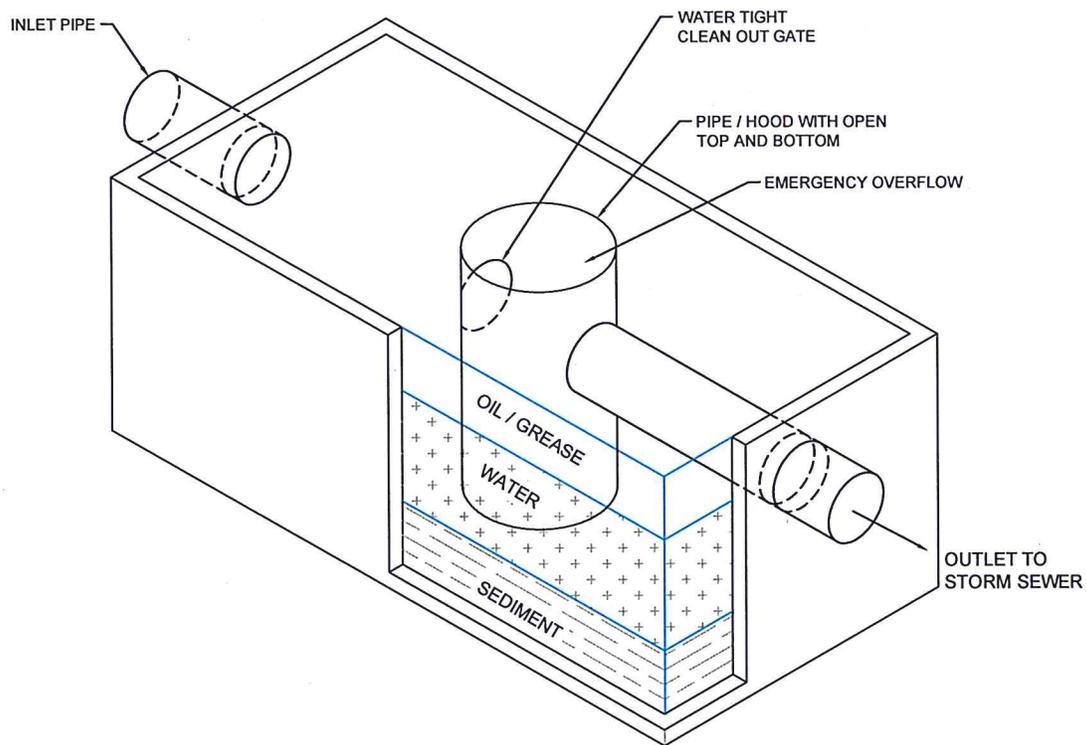
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MINIMIZE DIRECTLY CONNECTED IMPERVIOUS AREA

CONSTRUCTION STANDARDS AND DETAILS



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CROSS SECTION VIEW

OIL/GRIT SEPARATOR:
SC - TYPE SEPARATOR

NOTE:FOR ILLUSTRATIVE
PURPOSES ONLY

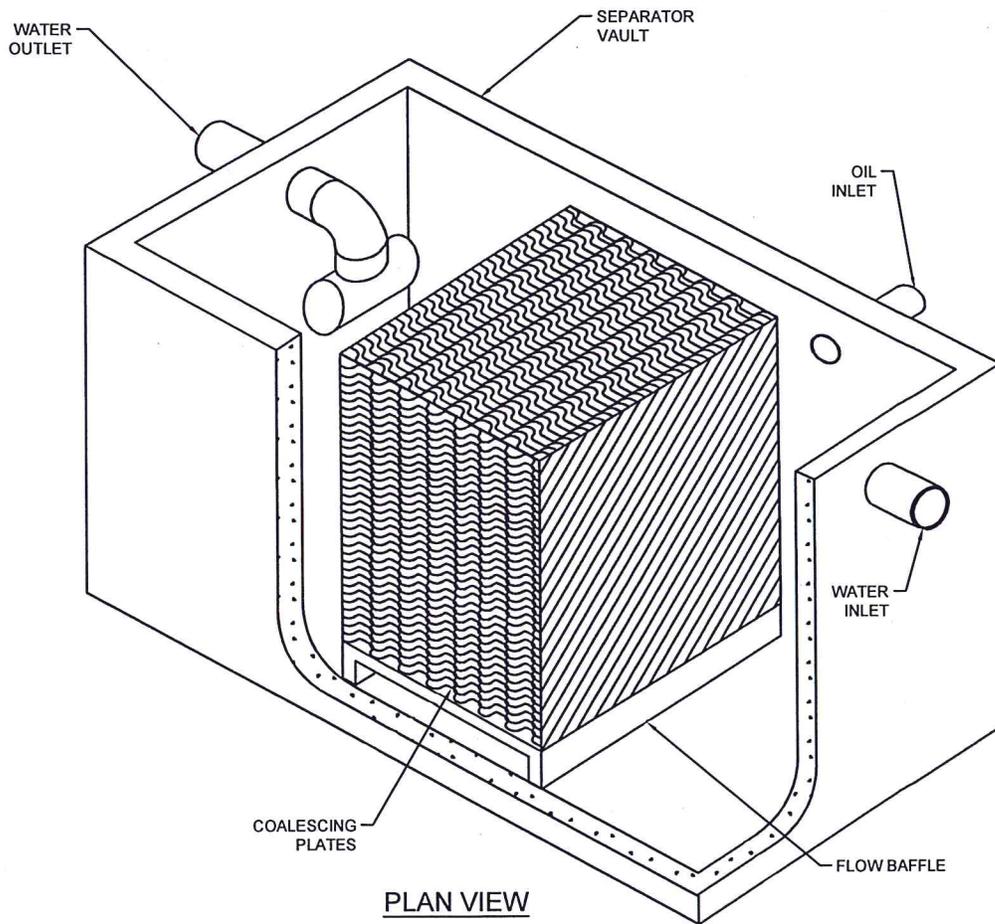
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SUBSURFACE TREATMENT DEVICES
SC – TYPE SEPARATOR

CONSTRUCTION STANDARDS AND DETAILS



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OIL/GRIT SEPARATOR:
CPS - SEPARATOR

NOTE: FOR ILLUSTRATIVE
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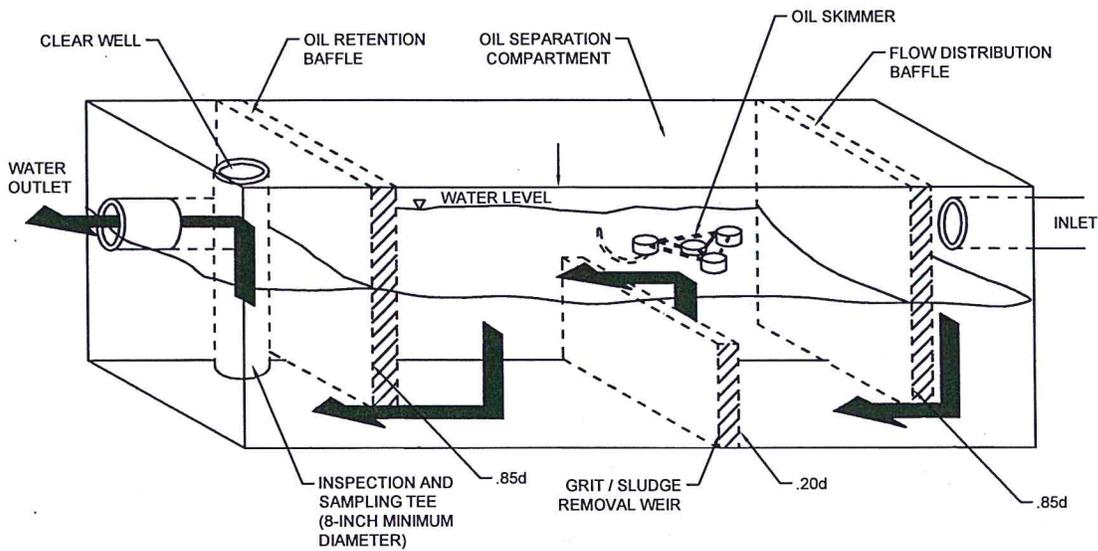
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SUBSURFACE TREATMENT DEVICES
CPS – SEPARATOR

CONSTRUCTION STANDARDS AND DETAILS



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CATCH BASIN VOLUME = 0.5 - 1.5 CUBIC YARDS

"d" = DEPTH OF VAULT

OIL/GRIT SEPARATOR:
API - SEPARATOR

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

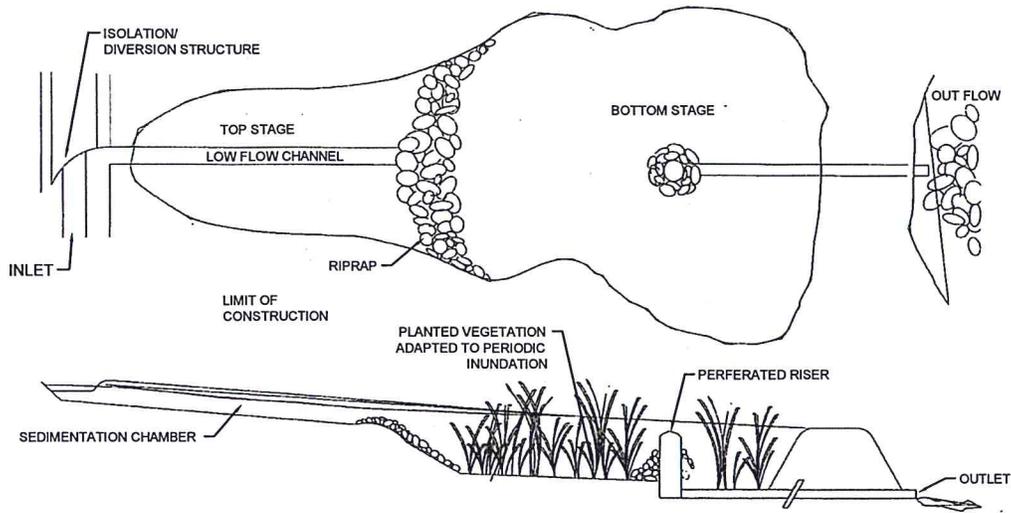
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SUBSURFACE TREATMENT DEVICES
API - SEPARATOR

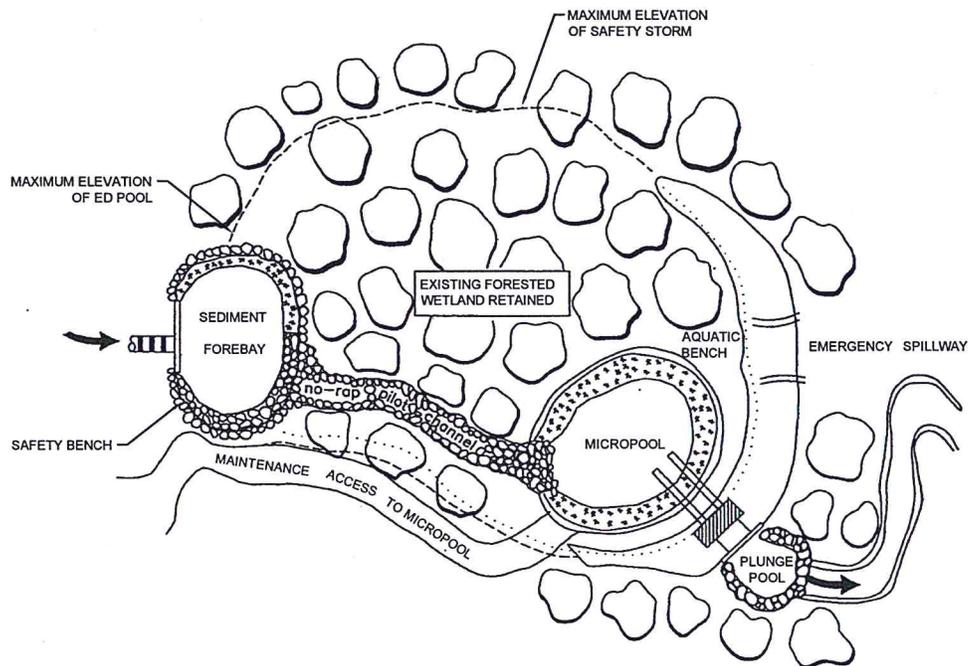
CONSTRUCTION STANDARDS AND DETAILS



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SCHEMATIC OF A TWO STAGE EXTENDED DETENTION BASIN (LCRA, 1998)



Source: Schueler, 1991.

SCHEMATIC OF AN ENHANCED EXTENDED DETENTION BASIN (SCHUELER, 1992)

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

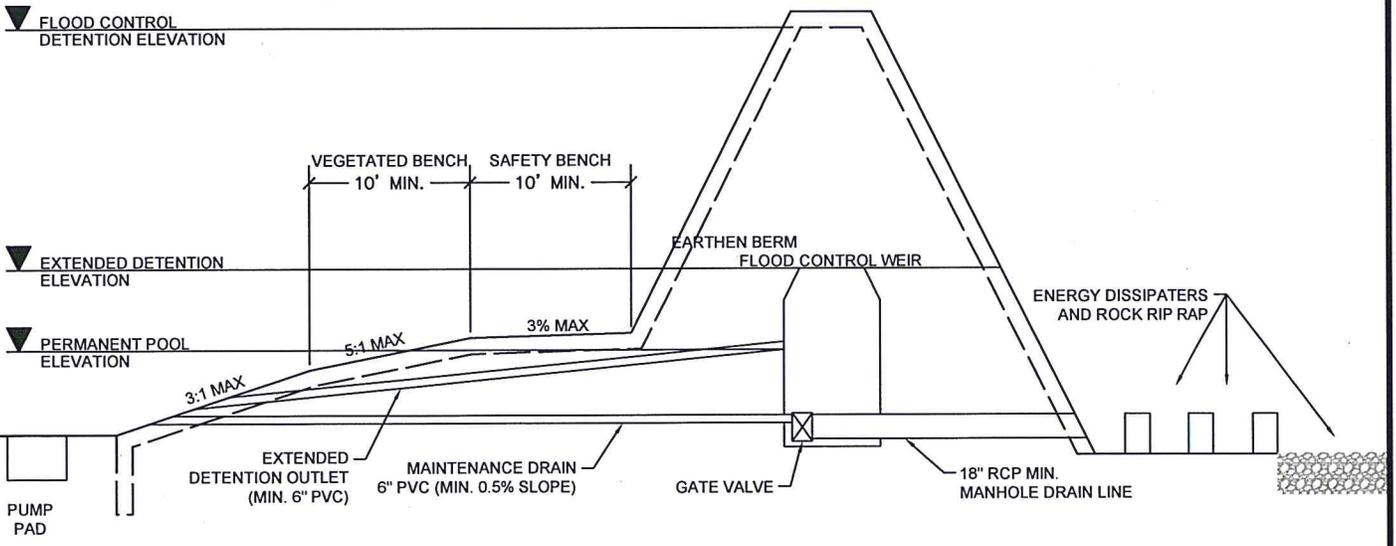
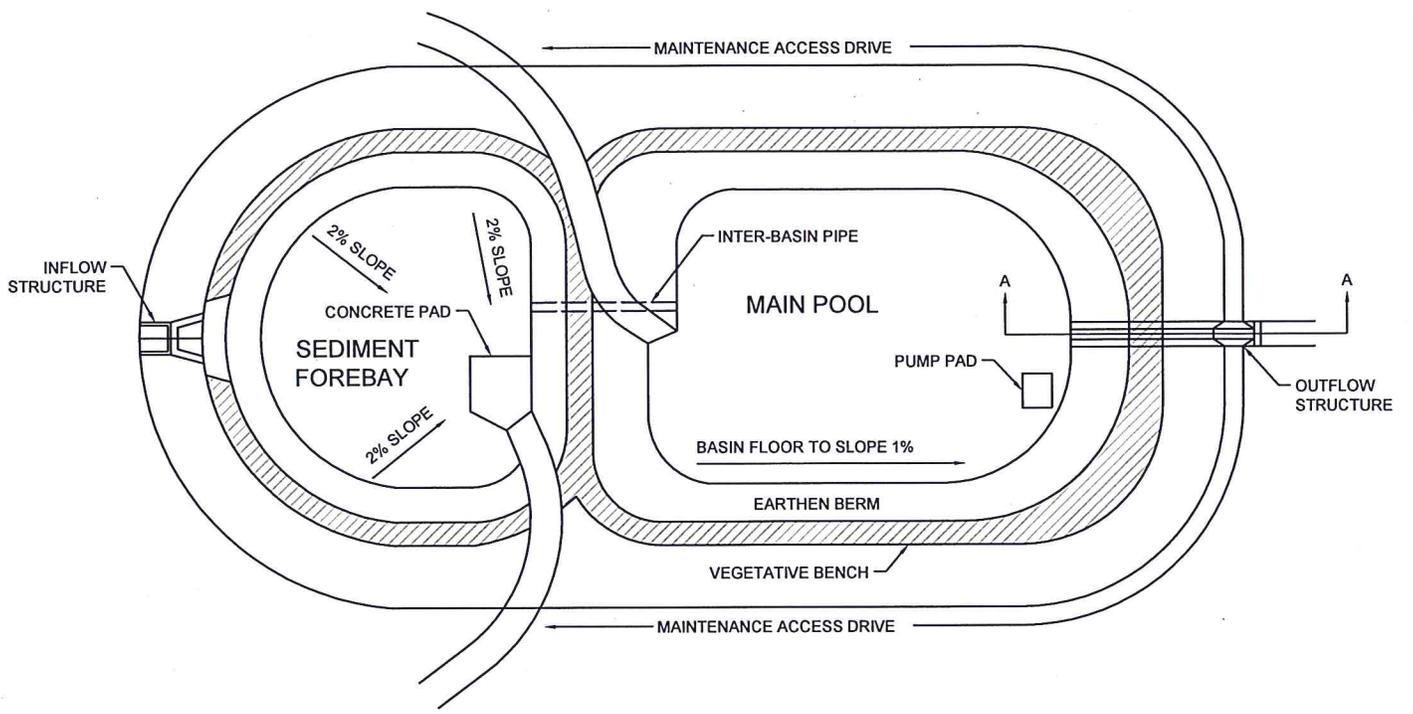
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DRY EXTENDED DETENTION
BASIN

CONSTRUCTION STANDARDS AND DETAILS



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SECTION A-A

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

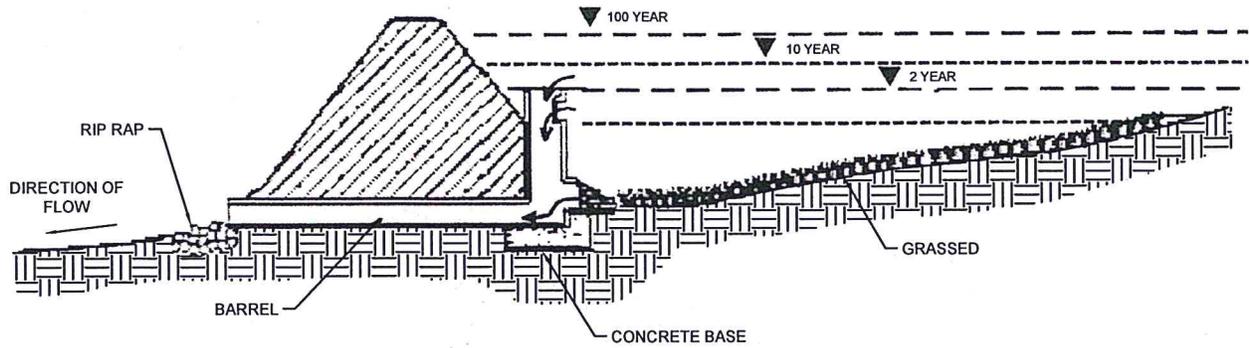
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WET
PONDS

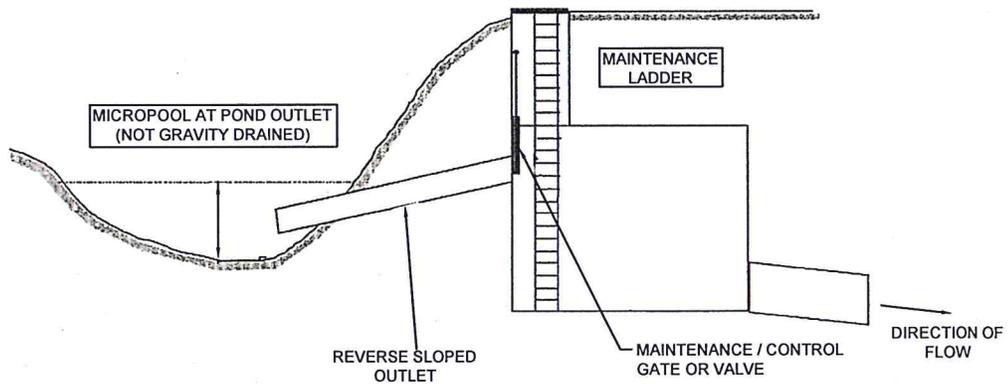
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TYPICAL DRY POND
Source: NVPDC, 1992.



DRY POND MICROPOOL AND REVERSED-SLOPE OUTLET PIPE
Source: Ontario Ministry of the Environment, 1999.

NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

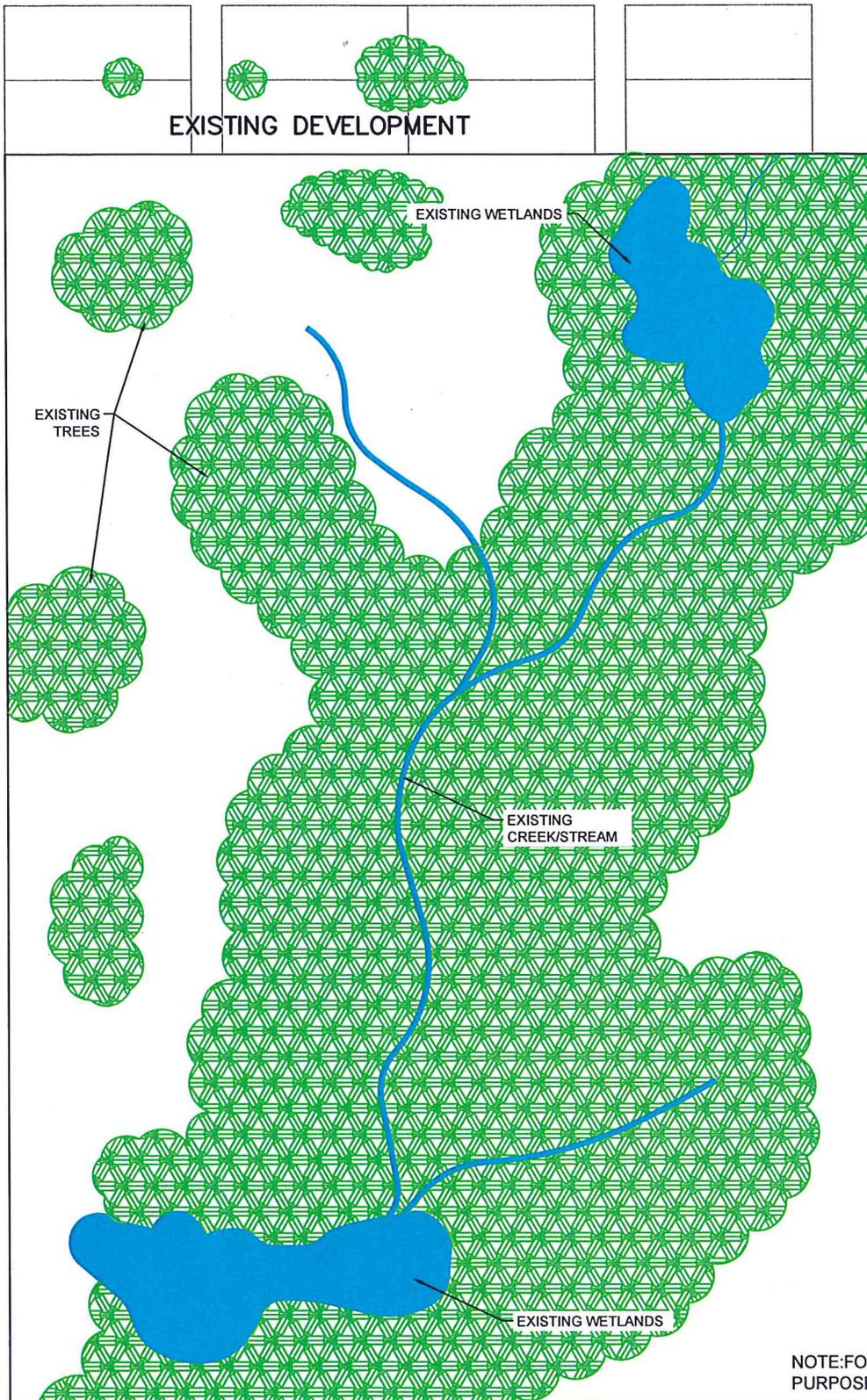
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**DETENTION POND OUTLET FOR EROSION PROTECTION
AND STORM WATER QUALITY BENEFITS**

CONSTRUCTION STANDARDS AND DETAILS



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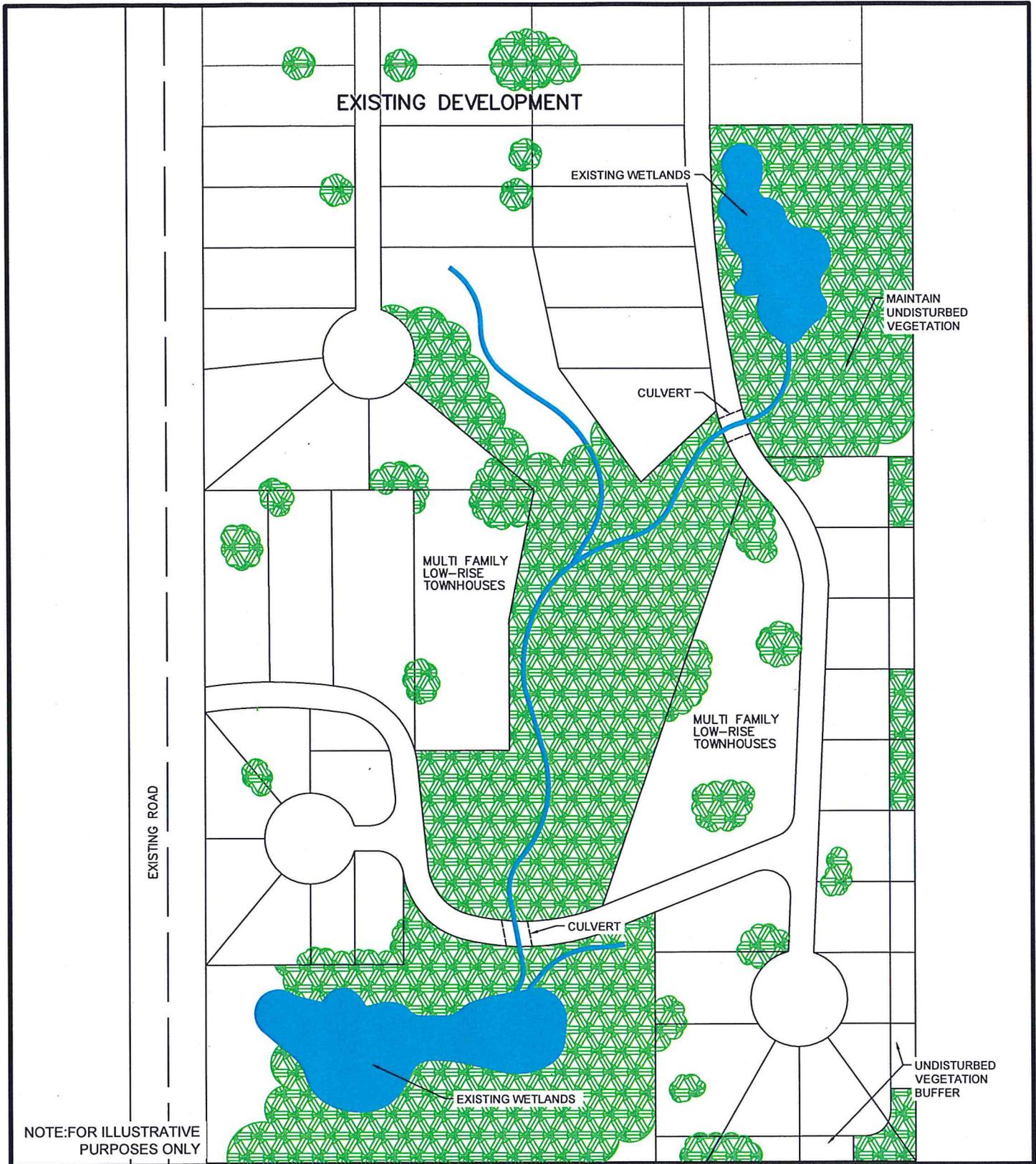
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OPEN SPACE / CLUSTER DESIGN
PRE-PROJECT

CONSTRUCTION STANDARDS AND DETAILS



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CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

OPEN SPACE / CLUSTER DESIGN
POST PROJECT

CONSTRUCTION STANDARDS AND DETAILS



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 ISSUE DATE: 07-24-12



NOTE: FOR ILLUSTRATIVE PURPOSES ONLY

CITY OF KILLEEN
 DEPARTMENT OF PUBLIC WORKS

URBAN FORESTRY

CONSTRUCTION STANDARDS AND DETAILS



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