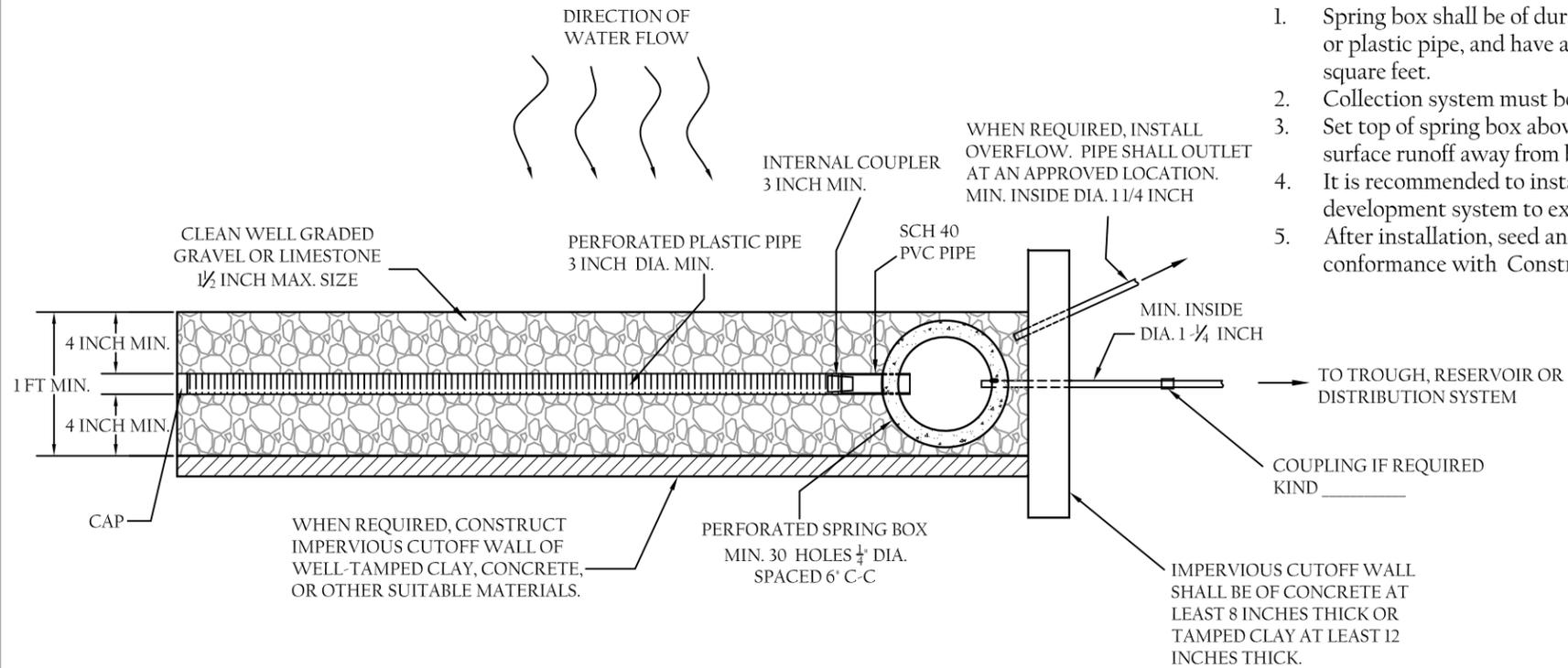


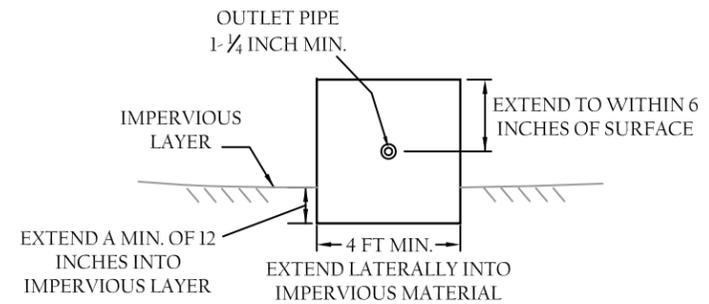
****CONSTRUCTION NOTES****

1. Spring box shall be of durable quality material - concrete pipe or plastic pipe, and have a minimum cross sectional area of 1.5 square feet.
2. Collection system must be protected from surface water entry.
3. Set top of spring box above ground and grade area to divert surface runoff away from box.
4. It is recommended to install a fence around spring development system to exclude livestock.
5. After installation, seed and mulch disturbed areas in conformance with Construction Specification 706.

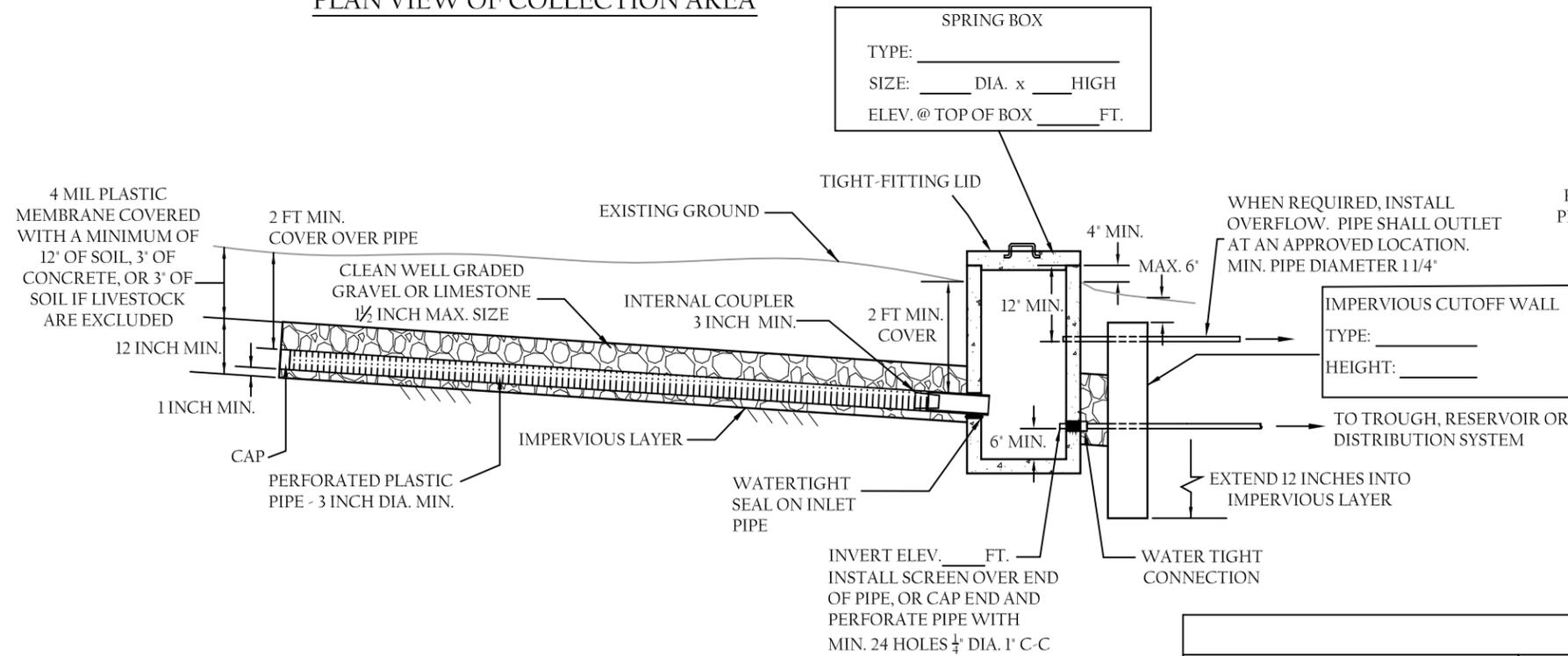
ACCEPTABLE CUTOFF WALL/OUTLET PIPES	
STEEL	
COPPER	
SCHEDULE 40 or 80 PVC	ASTM D 1785
SDR 26 PVC	ASTM D 2241
PE 3408 SDR11*	ASTM D 3350
COLLECTION TUBING	
PLASTIC	ASTM F 405
* TO BE USED IN CUTOFF WALLS CONSTRUCTED FROM MATERIALS OTHER THAN CONCRETE	



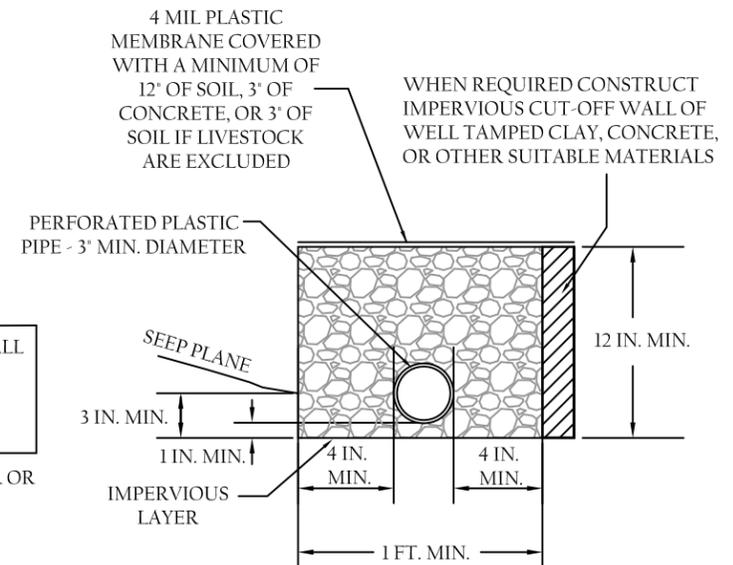
PLAN VIEW OF COLLECTION AREA



IMPERVIOUS CUTOFF WALL DETAIL



PROFILE OF COLLECTION AREA



COLLECTION TRENCH DETAIL

QUANTITIES			
MATERIAL	TYPE	ESTIMATED	AS BUILT
Aggregate			
Collection Pipe (Tubing)			
Outlet Pipe			
Bagged Concrete			
Spring Box w/Lid			

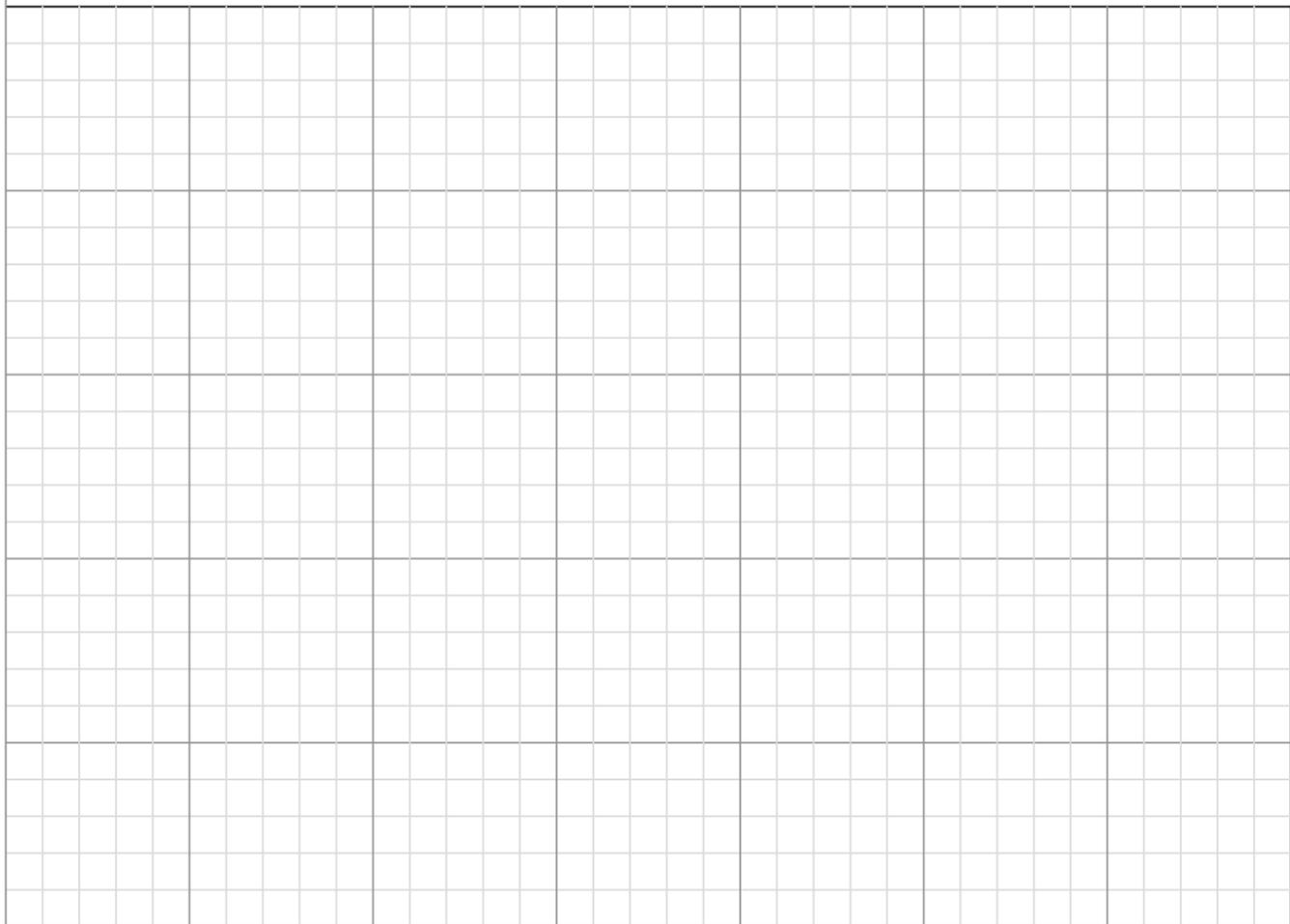
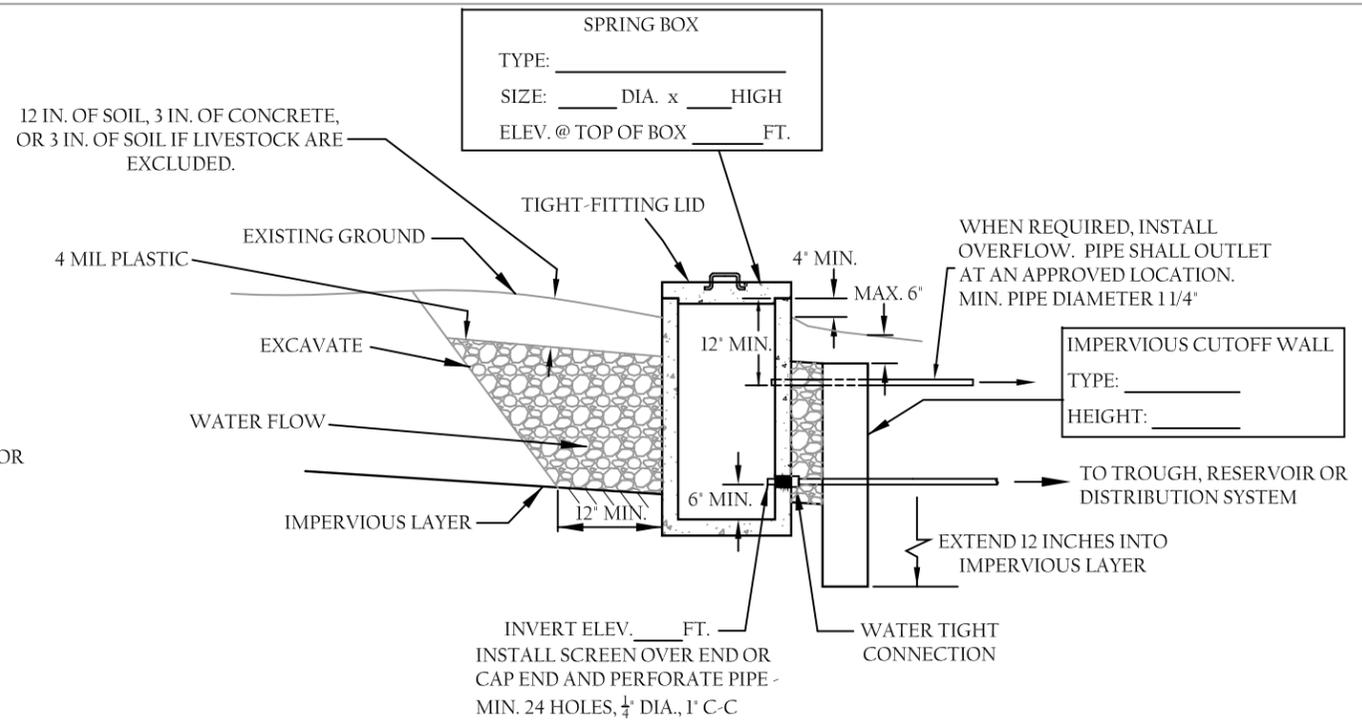
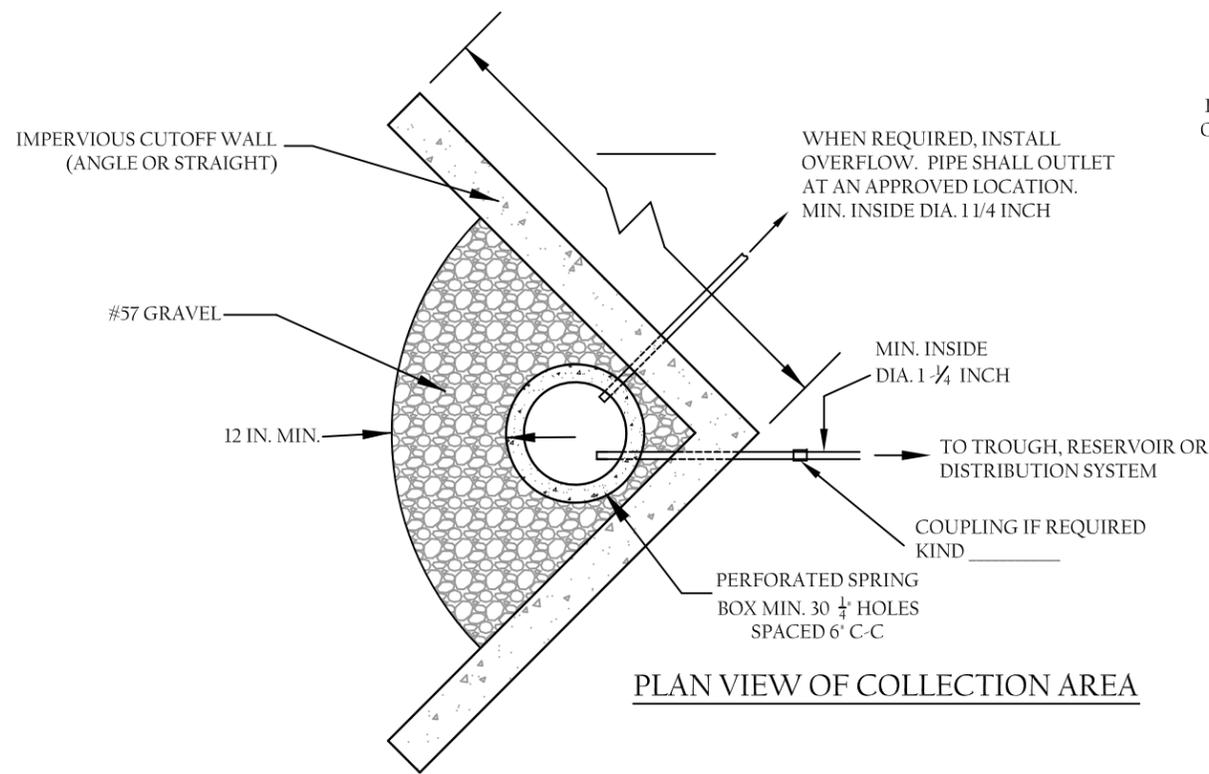
SHEET NOT TO SCALE

REV. JULY 2015	Date
Designed	_____
Approved	_____
Checked	_____
Const. Check	_____

SPRING DEVELOPMENT
 CUTOFF DOWNSTREAM OF SPRING BOX
 FIELD SHEET
 WEST VIRGINIA NRCS



File No.	574
Drawing No.	SPRING
Sheet	1 of 1



PLAN VIEW

****CONSTRUCTION NOTES****

1. Spring box shall be of durable quality material - concrete pipe or plastic pipe, and have a minimum cross sectional area of 1.5 square feet.
2. Collection system must be protected from surface water entry.
3. Set top of spring box above ground and grade area to divert surface runoff away from box.
4. Impervious cutoff wall shall be concrete at least 4" thick, or tamped clay at least 12" thick.
5. It is recommended to install a fence around spring development to exclude livestock.
6. After installation, seed and mulch disturbed areas in conformance with Construction Specification 706.

ACCEPTABLE CUTOFF WALL/OUTLET PIPES

STEEL	
COPPER	
SCHEDULE 40 or 80 PVC	ASTM D 1785
SDR 26 PVC	ASTM D 2241
PE 3408 SDR11*	ASTM D 3350

* TO BE USED IN CUTOFF WALLS CONSTRUCTED FROM MATERIALS OTHER THAN CONCRETE

QUANTITIES

MATERIAL	TYPE	ESTIMATED	AS BUILT
Aggregate			
Spring Box w/Lid			
Outlet Pipe			
Bagged Concrete			

REV. JULY 2015

Date _____

Designed _____

Approved _____

Checked _____

Const. Check _____

SPRING DEVELOPMENT
CUTOFF WALL W/ NO COLLECTION LINE
FIELD SHEET
WEST VIRGINIA NRCS

United States Department of Agriculture
NRCS
Natural Resources
Conservation Service

File No. 574

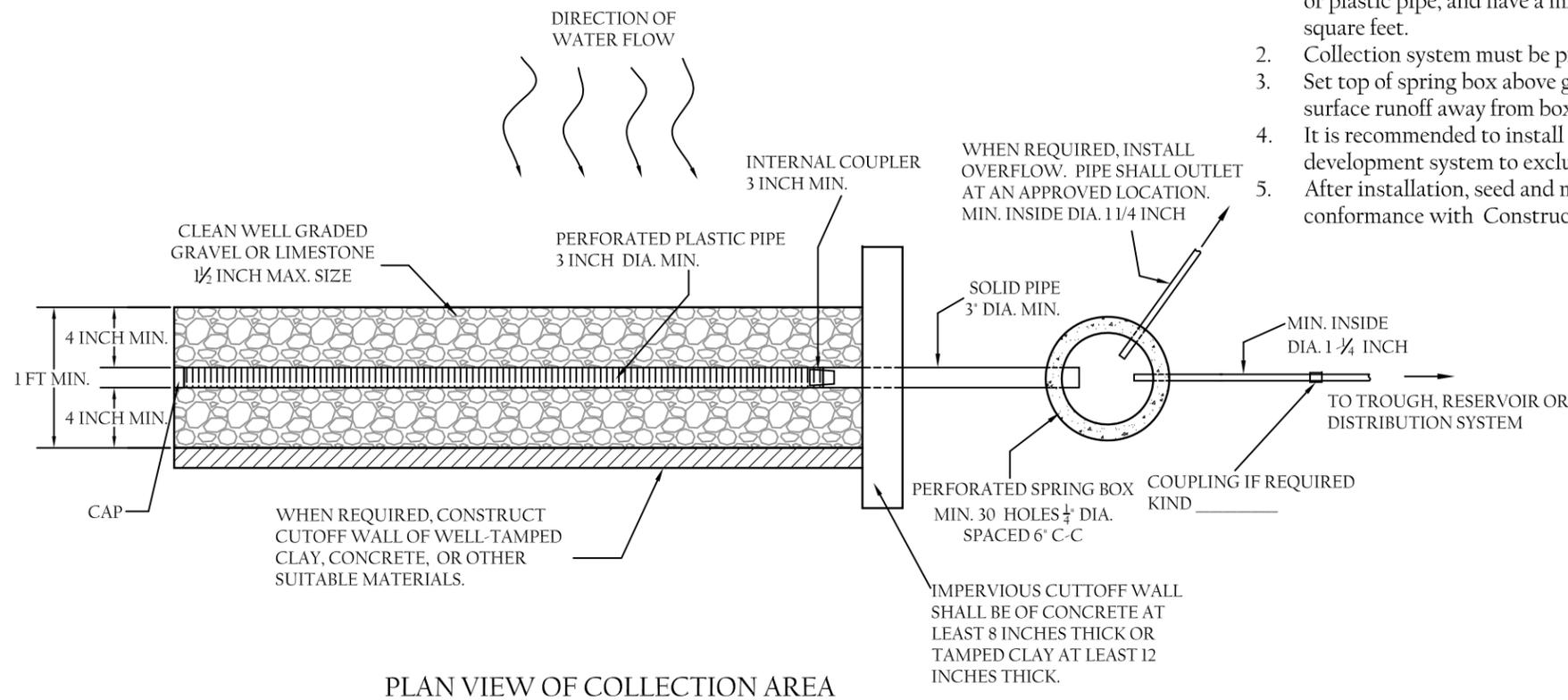
Drawing No. SPRING

Sheet _____ of _____

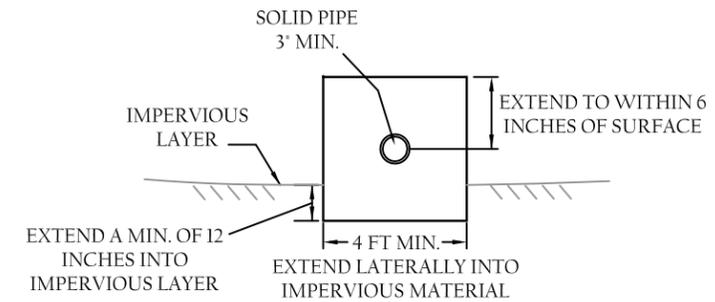
****CONSTRUCTION NOTES****

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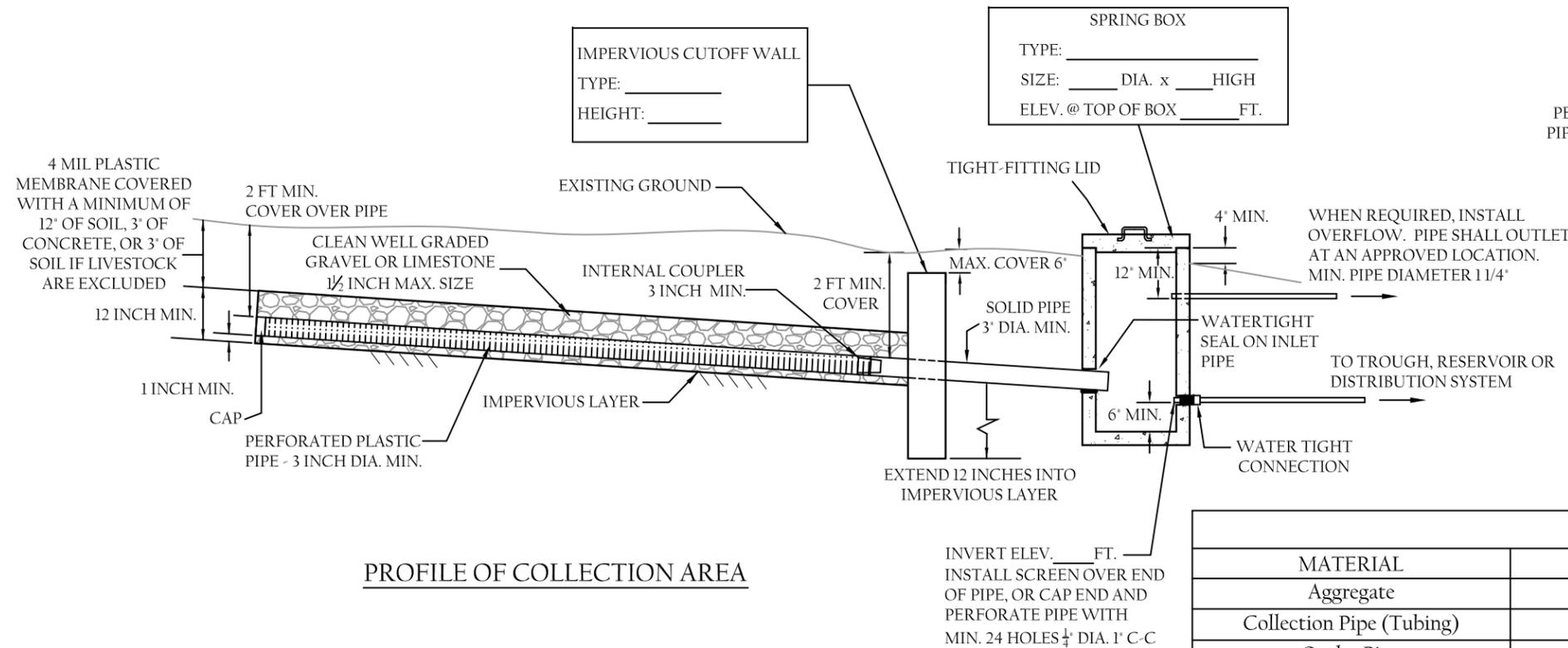
ACCEPTABLE CUTOFF WALL/OUTLET PIPES	
STEEL	
COPPER	
SCHEDULE 40 or 80 PVC	ASTM D 1785
SDR 26 PVC	ASTM D 2241
PE 3408 SDR11*	ASTM D 3350
COLLECTION TUBING	
PLASTIC	ASTM F 405
* TO BE USED IN CUTOFF WALLS CONSTRUCTED FROM MATERIALS OTHER THAN CONCRETE	



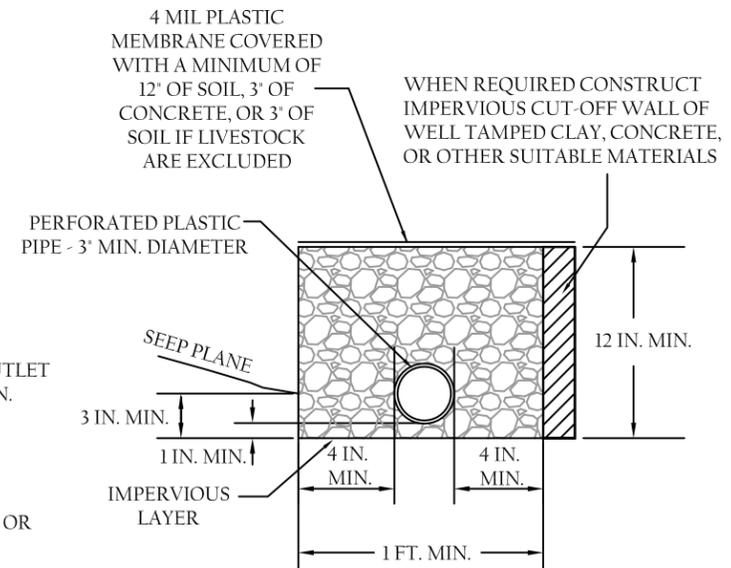
PLAN VIEW OF COLLECTION AREA



IMPERVIOUS CUTOFF WALL DETAIL



PROFILE OF COLLECTION AREA



COLLECTION TRENCH DETAIL

QUANTITIES

MATERIAL	TYPE	ESTIMATED	AS BUILT
Aggregate			
Collection Pipe (Tubing)			
Outlet Pipe			
Bagged Concrete			
Spring Box w/Lid			

SHEET NOT TO SCALE

REV. JULY 2015	Date
Designed	Approved
Checked	Const. Check

SPRING DEVELOPMENT
 CUTOFF UPSTREAM OF SPRING BOX
 FIELD SHEET
 WEST VIRGINIA NRCS



File No.	574
Drawing No.	SPRING
Sheet	of