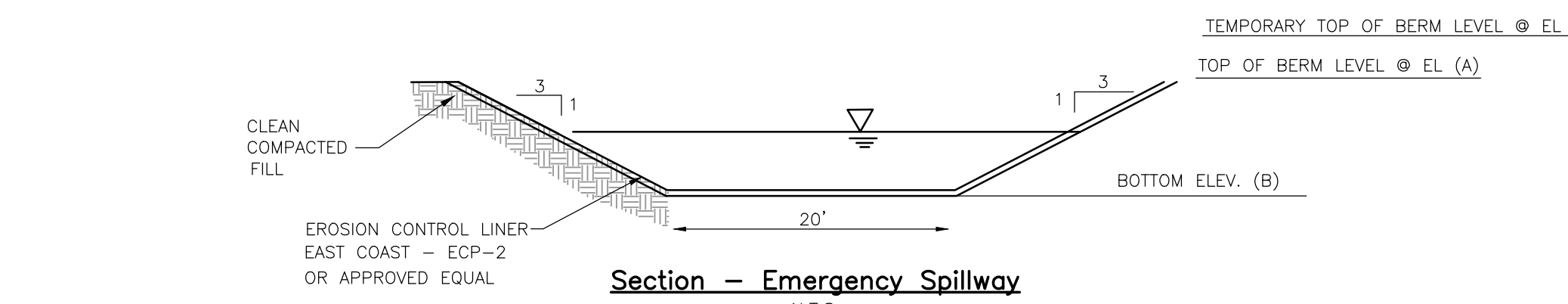
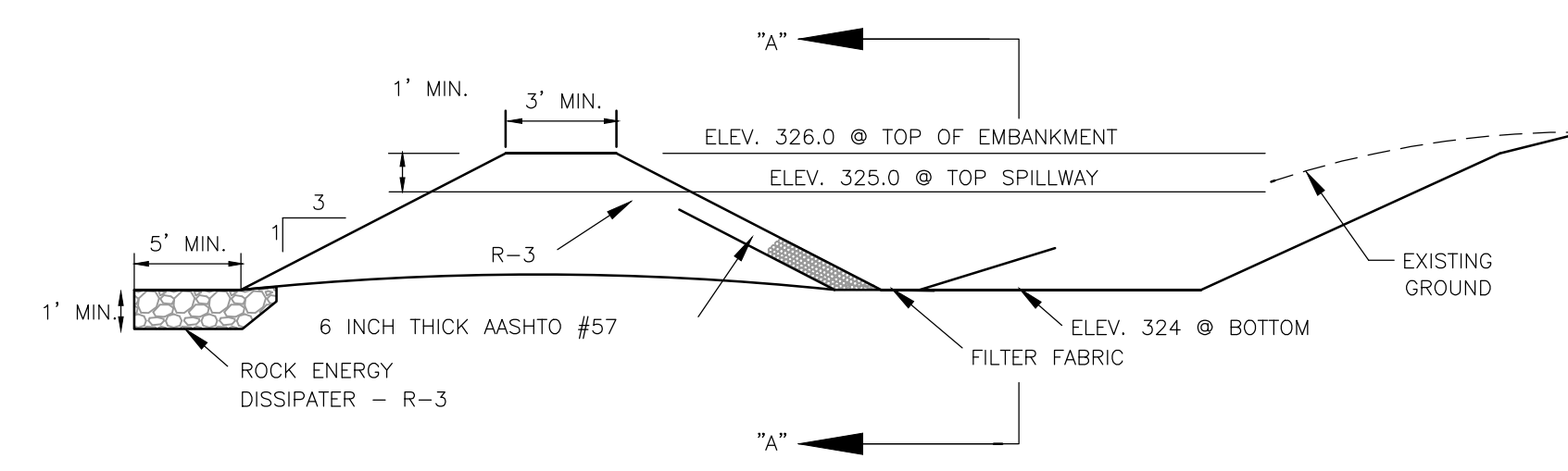


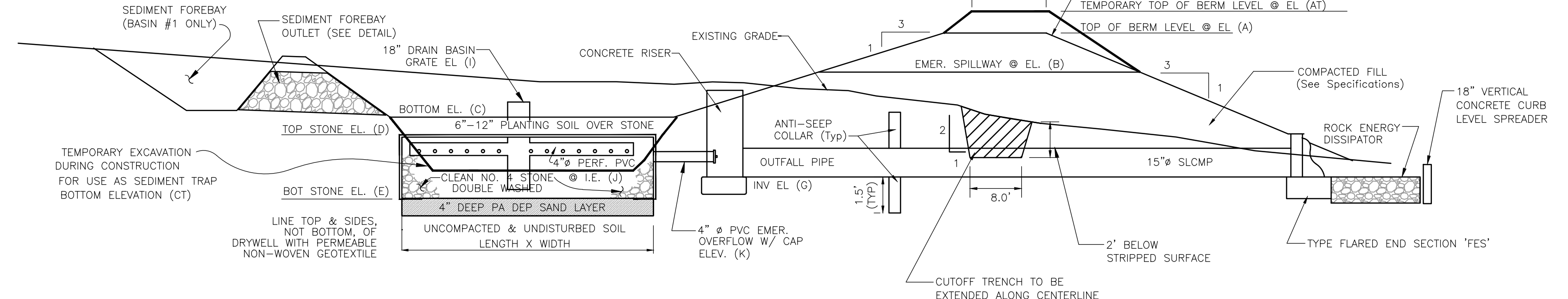
Section "A-A"  
N.T.S.



Section - Emergency Spillway  
N.T.S.



Section thru Sediment Forebay #1 Outlet  
N.T.S.



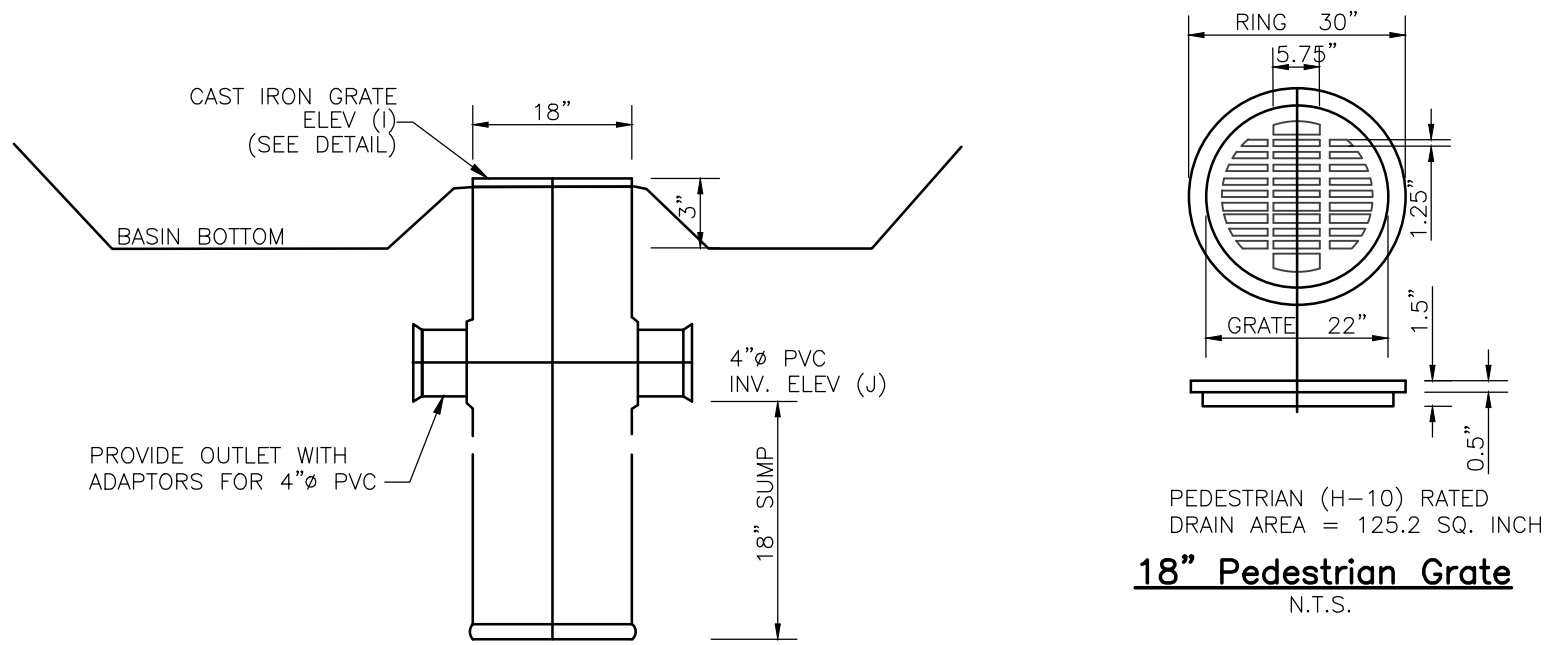
Section - SWM Basin & Infiltration Trench  
(Temporary Sediment Trap)  
N.T.S.

**Infiltration Trench Notes & Construction Specifications.**

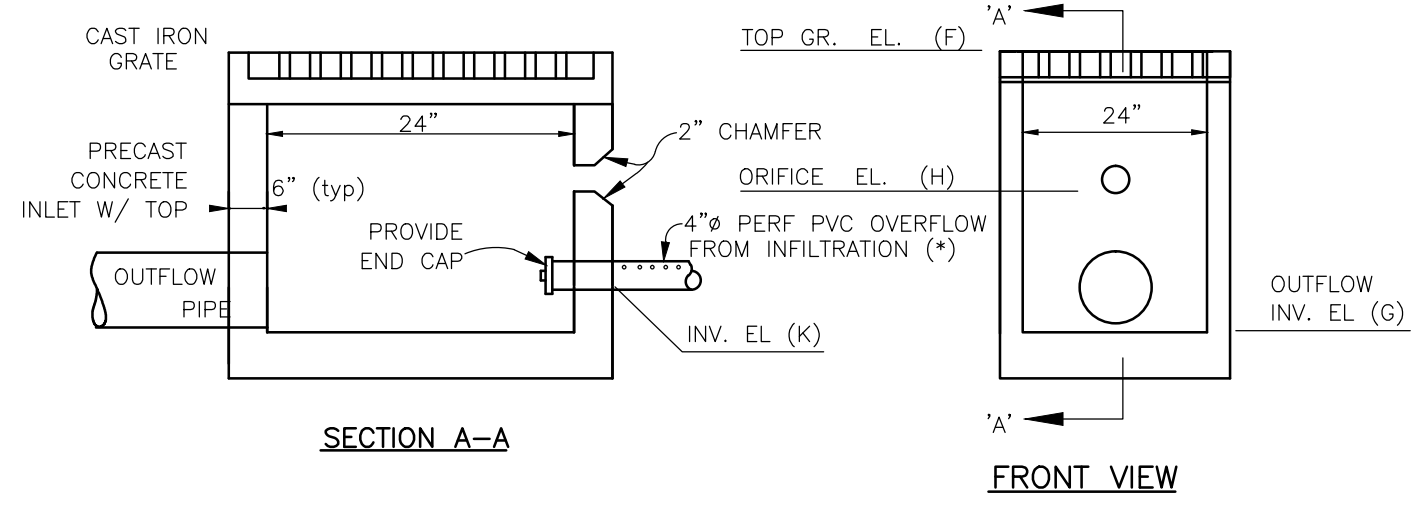
- NOTE: A DRYWELL (INFILTRATION TRENCH) MAY NOT RECEIVE RUN-OFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE INFILTRATION SYSTEM HAS RECEIVED FINAL STABILIZATION.
- DURING CONSTRUCTION INFILTRATION BASINS WILL BE USED AS TEMPORARY SEDIMENT TRAPS. EXTREME CARE SHALL BE TAKEN TO PREVENT COMPACTION OF THE UNDERLYING SOILS. TO THE GREATEST EXTENT POSSIBLE, EXCAVATION OF THE SEDIMENT TRAP AND SUBSEQUENT REMOVAL OF SEDIMENT SHALL BE UNDERTAKEN WITH THE LIGHTEST PRACTICAL EQUIPMENT. EXCAVATION EQUIPMENT SHOULD BE PLACED OUTSIDE OF THE LIMITS OF THE UNDERGROUND STONE INFILTRATION TRENCH.
  - UPON CONVERSION OF THE TEMPORARY SEDIMENT TRAP TO THE PERMANENT INFILTRATION BASIN, ADDITIONAL PERC TESTS SHALL BE PERFORMED AT THE ELEVATION OF THE BOTTOM OF STONE. PERC RATES SHALL BE EQUIVALENT TO OR GREATER THAN THE DESIGN VALUES. IF PERC RESULTS ARE LESS THAN THE DESIGN VALUE, THE DESIGN ENGINEER SHALL BE CONSULTED REGARDING MODIFICATIONS TO THE DESIGN OF THE INFILTRATION BASIN.
  - INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENTATION CONTROL MEASURES DURING THE CONVERSION OF THE SEDIMENT TRAP TO INFILTRATION BASIN AS PER THE PENNSYLVANIA EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL (MARCH 2000 LATEST EDITION). INSTALL SILT FENCING ACROSS ENTIRE DOWNSLOPE SECTION OF BASIN BEFORE THE BASINS ARE FULLY STABILIZED, TO MINIMIZE THE CONTAMINATION OF STONE WITH SEDIMENT. THE INSTALLATION OF THE INFILTRATION BED SHALL BE PERFORMED IN A 24 HOUR PERIOD WHEN THERE IS NO PRECIPITATION IN THE FORECAST.
  - EXCAVATE THE INFILTRATION TO THE DESIGN DIMENSIONS. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE SIDES TO ENHANCE WALL STABILITY. LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE DRYWELL (INFILTRATION TRENCH) SIDES IN ORDER TO PREVENT FABRIC PUNCTURING OR TEARING OF THE FILTER FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES. THE SIDE WALLS AND BOTTOM OF DRYWELL SHALL BE ROUGHENED WHERE SHEARED AND SEALED BY EQUIPMENT. NOTE: IF UNFAVORABLE CONDITIONS SUCH AS BEDROCK OR GROUNDWATER ARE ENCOUNTERED, CONTACT THE DESIGN ENGINEER IMMEDIATELY TO FIND AN ALTERNATE LOCATION FOR SEEPAGE BED.
  - A 4 INCH LAYER OF PA DEP SAND SHALL BE PLACED ALONG THE BOTTOM.
  - A HIGHLY PERMEABLE NONWOVEN GEOTEXTILE OR BETTER SHALL BE PLACED AT THE INTERFACE BETWEEN THE DRYWELL SIDEWALLS AND ALONG THE TOP.

THE WIDTH OF THE GEOTEXTILE MUST INCLUDE SUFFICIENT MATERIAL TO CONFORM TO DRYWELL PERIMETER IRREGULARITIES AND FOR A 12-INCH MINIMUM TOP OVERLAP. STONES OR OTHER ANCHORING OBJECTS SHOULD BE PLACED ON THE FABRIC AT THE EDGE AND BOTTOM OF THE DRYWELL TO KEEP THE DRYWELL (INFILTRATION TRENCH) OPEN DURING WINDY PERIODS. WHEN OVERLAPS ARE REQUIRED BETWEEN ROLLS THE UPHILL ROLL SHOULD LAP A MINIMUM OF 2 FEET OVER THE DOWNHILL ROLL IN ORDER TO PROVIDE A SHINGLED EFFECT.

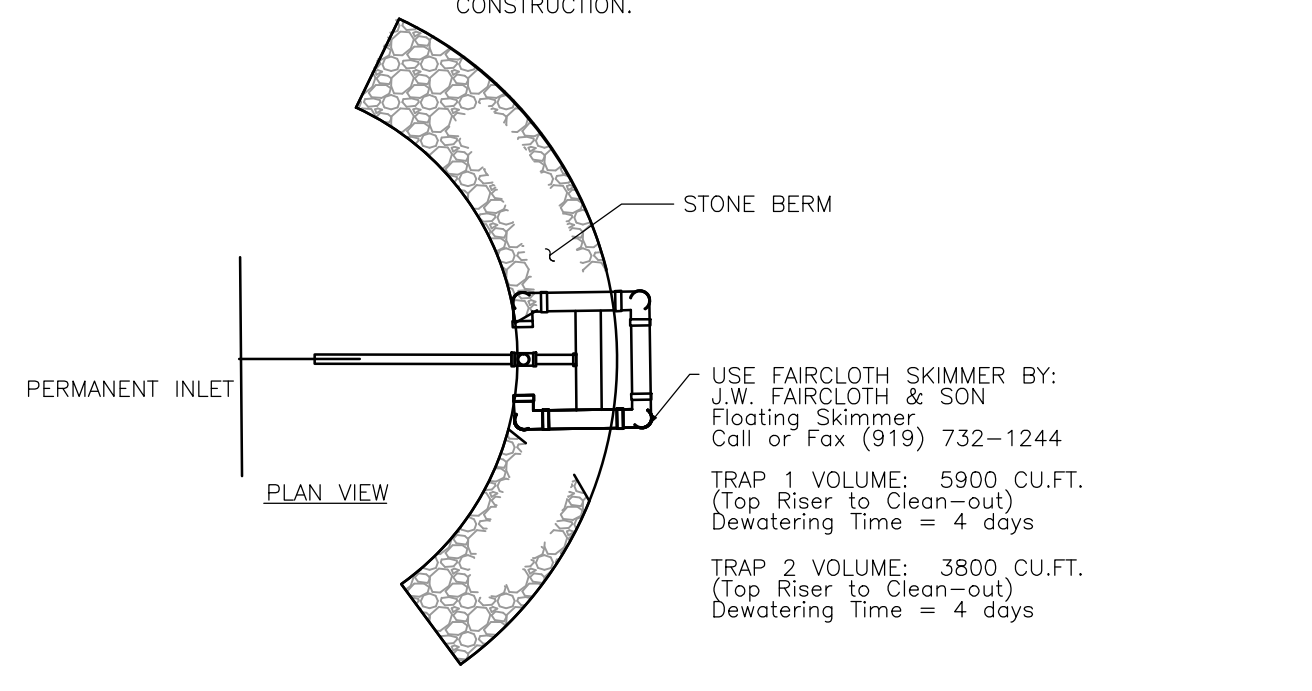
- THE STONE AGGREGATE SHOULD BE PLACED IN A MAXIMUM LOOSE LIFT THICKNESS OF 24 INCHES AND COMPACTED LIGHTLY. THE AGGREGATE SHALL BE DOUBLE WASHED AASHTO #1. THE STONE SHALL BE INSPECTED BY THE SITE OR DESIGN ENGINEER PRIOR TO INSTALLATION.
- PLACE BASIN DRAIN AND 4 INCH PERFORATED PVC DISTRIBUTION PIPES.
- CARE SHALL BE EXERCISED TO PREVENT NATURAL OR FILL SOILS FROM INTERMIXING WITH THE STONE AGGREGATE. ALL CONTAMINATED STONE AGGREGATE SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED STONE AGGREGATE.
- IMMEDIATELY FOLLOWING THE STONE AGGREGATE PLACEMENT, THE FILTER FABRIC SHALL BE FOLDED OVER THE STONE AGGREGATE TO FORM A 12-INCH MINIMUM LONGITUDINAL LAP.
- VOIDS THAT MAY OCCUR BETWEEN THE FABRIC AND THE EXCAVATED SIDES SHALL BE AVOIDED. REMOVING BOULDERS OR OTHER OBSTACLES FROM THE SIDE WALLS IS ONE SOURCE OF SUCH VOIDS. THEREFORE, NATURAL SOILS OR SAND SHOULD BE PLACED IN THESE VOIDS AT THE MOST CONVENIENT TIME DURING CONSTRUCTION TO ENSURE FABRIC CONFORMITY TO THE EXCAVATED SIDES.
- VERTICALLY EXCAVATED WALLS MAY BE DIFFICULT TO MAINTAIN IN AREAS WHERE SOIL MOISTURE IS HIGH OR WHERE SOFT COHESIVE OR COHESIONLESS SOILS ARE DOMINANT. THESE CONDITIONS MAY REQUIRE LAYING BACK OF THE SIDE SLOPES TO MAINTAIN STABILITY. EXTRA EXCAVATION FOR THIS CONDITION SHALL BE BACKFILLED WITH STONE.
- THE OBSERVATION WELL IS TO CONSIST OF 4-INCH DIAMETER PERFORATED PVC SCHEDULE 40 PIPE (M278 OR F758, TYPE PS 28) WITH A CAP SET 6 INCHES ABOVE GROUND LEVEL. THE PIPE SHALL HAVE A PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING THE CAP. THE SCREW TOP LID SHALL BE A CLEANOUT WITH A LOCKING MECHANISM OR SPECIAL BOLT TO DISCOURAGE VANDALISM. THE DEPTH TO THE INVERT SHALL BE MARKED ON THE LID. THE PIPE SHALL BE PLACED VERTICALLY WITHIN THE GRAVEL PORTION OF THE DRYWELL (INFILTRATION TRENCH) AND A CAP PROVIDED AT THE BOTTOM OF THE PIPE. THE BOTTOM OF THE CAP SHALL REST ON THE USB BOTTOM.
- DRYWELL (INFILTRATION TRENCH) SHALL BE BACK FILLED WITH A PERVIOUS PLANTING SOIL COMPRISED OF NO MORE THAN 50 PERCENT TOPSOIL, 30 PERCENT SAND AND 20 PERCENT COMPOST. TOTAL CLAY CONTENT SHALL NOT EXCEED 20 PERCENT.



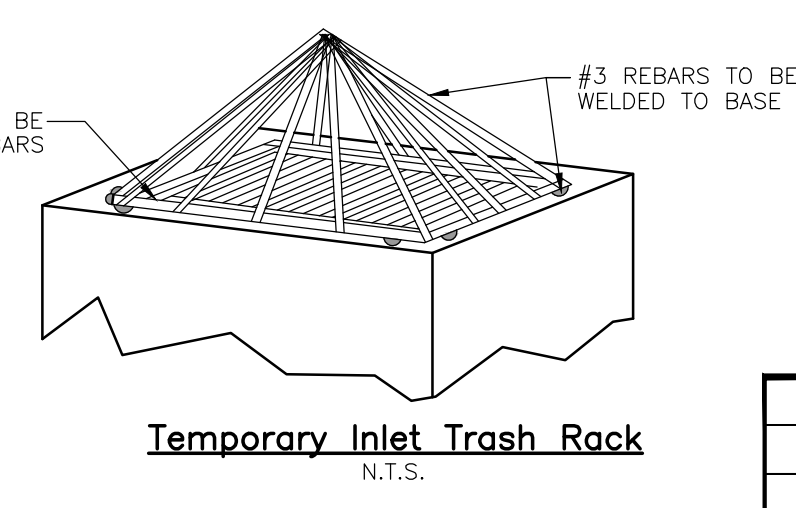
18" ADS Basin Drain  
N.T.S.



Basin Concrete Riser Structure  
N.T.S.



Section - Temporary Skimmer to Basin Riser  
N.T.S.

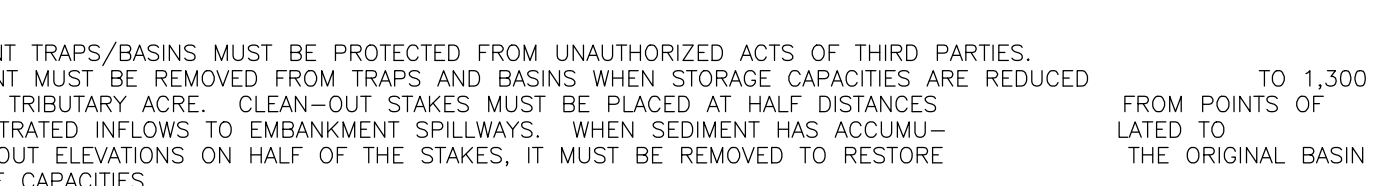


Temporary Inlet Trash Rack  
N.T.S.

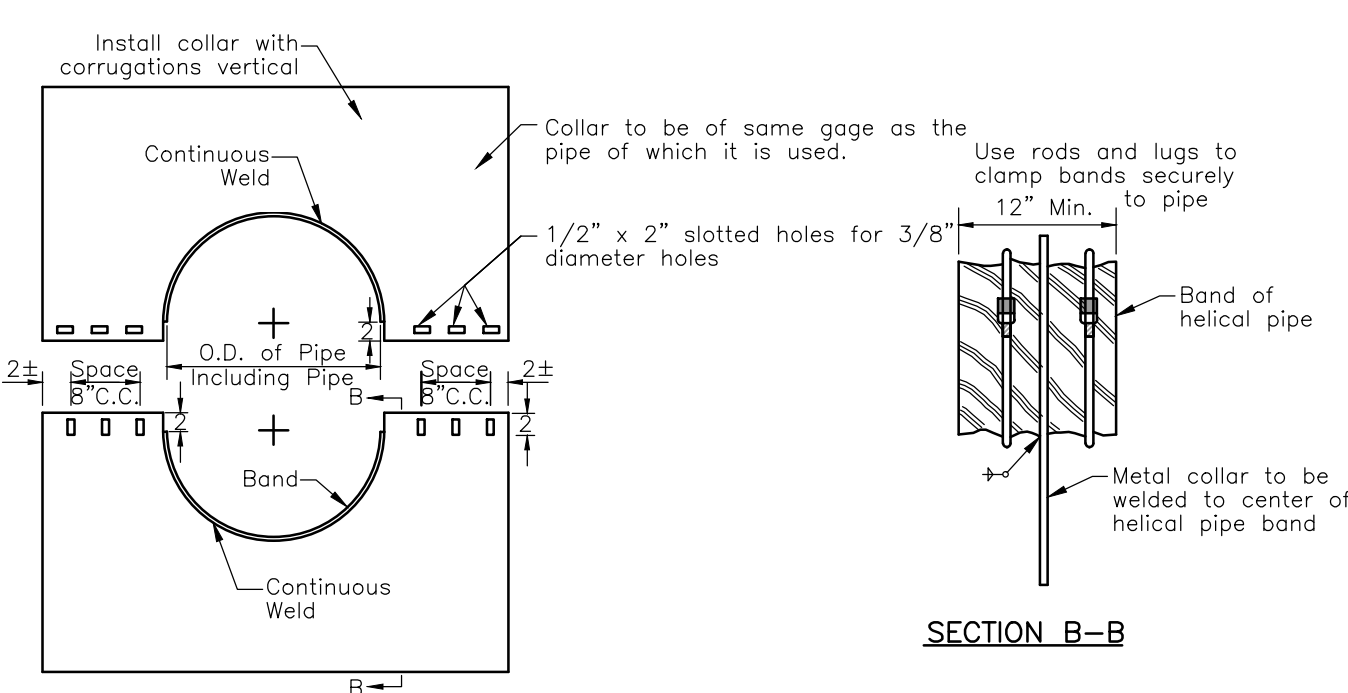
STR#	TEMPORARY		TEMPORARY		CLEAN OUT ELEV. (L)	BOTTOM OF STONE ELEV. (E)	RISER CREST ELEV. (F)	PIPE IN ELEV. (G)	PIPE OUT ELEV. (M)	ORIFICE TYPE	OUTFALL PIPE		
	TOP OF BERM ELEV. (A)	TOP OF BERM ELEV. (AT)	EMERGENCY SPILLWAY ELEV. (B)	BOTTOM BASIN ELEV. (C)							LENGTH (FT)	PIPE SIZE	SLOPE (%)
Trap #1	324.75	325.05	324.00	322.00	320.50	319.50	323.70	320.50	320.25	SKIMMER	25 LF	15" SLCMP	1.00%
Trap #2	326.70	327.00	326.00	323.50	322.00	321.00	325.70	321.75	321.50	SKIMMER	25 LF	15" SLCMP	1.00%

- NOTE:
- SEDIMENT TRAPS/BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.
  - SEDIMENT MUST BE REMOVED FROM TRAPS AND BASINS WHEN STORAGE CAPACITIES ARE REDUCED TO 5000 CF PER TRIBUTARY ACRE. CLEAN-OUT STAKES MUST BE PLACED AT HALF DISTANCES FROM POINTS OF CONCENTRATED INFLOWS TO TEMPORARY RISERS. WHEN SEDIMENT HAS ACCUMULATED TO CLEAN-OUT ELEVATIONS ON HALF OF THE STAKES, IT MUST BE REMOVED TO RESTORE THE ORIGINAL BASIN STORAGE CAPACITIES.
  - AFTER CONSTRUCTION SEDIMENT TRAP WILL BE USED AS INFILTRATION BASIN. TO THE GREATEST EXTENT POSSIBLE, EXCAVATION OF SEDIMENT DURING CONSTRUCTION SHALL BE PERFORMED WITH THE LIGHTEST PRACTICAL EQUIPMENT. EXCAVATION EQUIPMENT SHALL BE PLACED OUTSIDE THE LIMITS OF THE PROPOSED UNDERGROUND STONE INFILTRATION BED.

**Sediment Trap Details**



Temporary Sediment Trap Section  
N.T.S.



Detail: Corrugated Metal Anti-Seep Collar  
N.T.S.

- NOTES FOR COLLARS:
- All materials to be in accordance with construction and construction material specifications.
  - When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
  - Un assembled collars shall be marked by painting or tagging to identify matching pairs.
  - The top between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
  - Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.
  - Sheet metal collar shall be cut to fit corrugations of helical band, and welded with a continuous weld.

**FINAL SITE DETAILS**

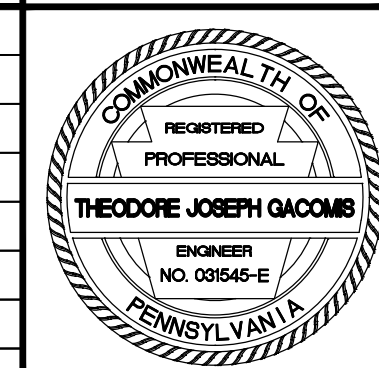
**PLAN OF PROPERTY FOR HETTIE HERZOG**

WEST VINCENT TOWNSHIP CHESTER COUNTY, PA

**Edward B. Walsh & Associates, Inc.**  
CIVIL ENGINEERS & SURVEYORS  
Lionville Professional Center  
125 Dowlin Forge Road  
Exton, Pennsylvania 19341  
Phone: (610) 903-0060  
Fax: (610) 903-0080

PROJECT #3647  
DATE: 10-5-06  
SCALE: AS NOTED  
DRAWN: ASH  
CHECKED: TJG  
SHEET: 6 OF 8

Plotted: 4/16/2015 File: F:\JIB\3647\DWG\SHEETS\6 SITE DETAILS.DWG



NO.	DATE	REVISION
4	8/26/11	REV. PER TOWNSHIP ENGINEER REVIEW LETTER DATED 7/8/11.
3	5/16/11	DRIVEWAY LOCATION FOR LOTS 2 & 3 MOVED 75' WEST.
2	5/25/07	FINAL PLAN
1	3/1/07	AS PER TWP & CCCD REVIEW