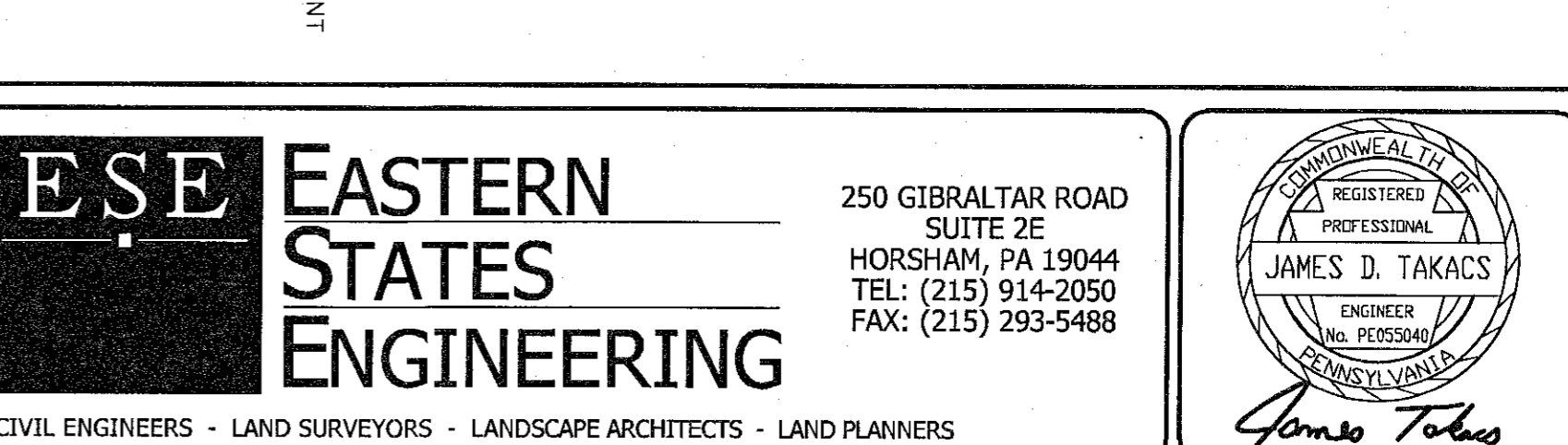
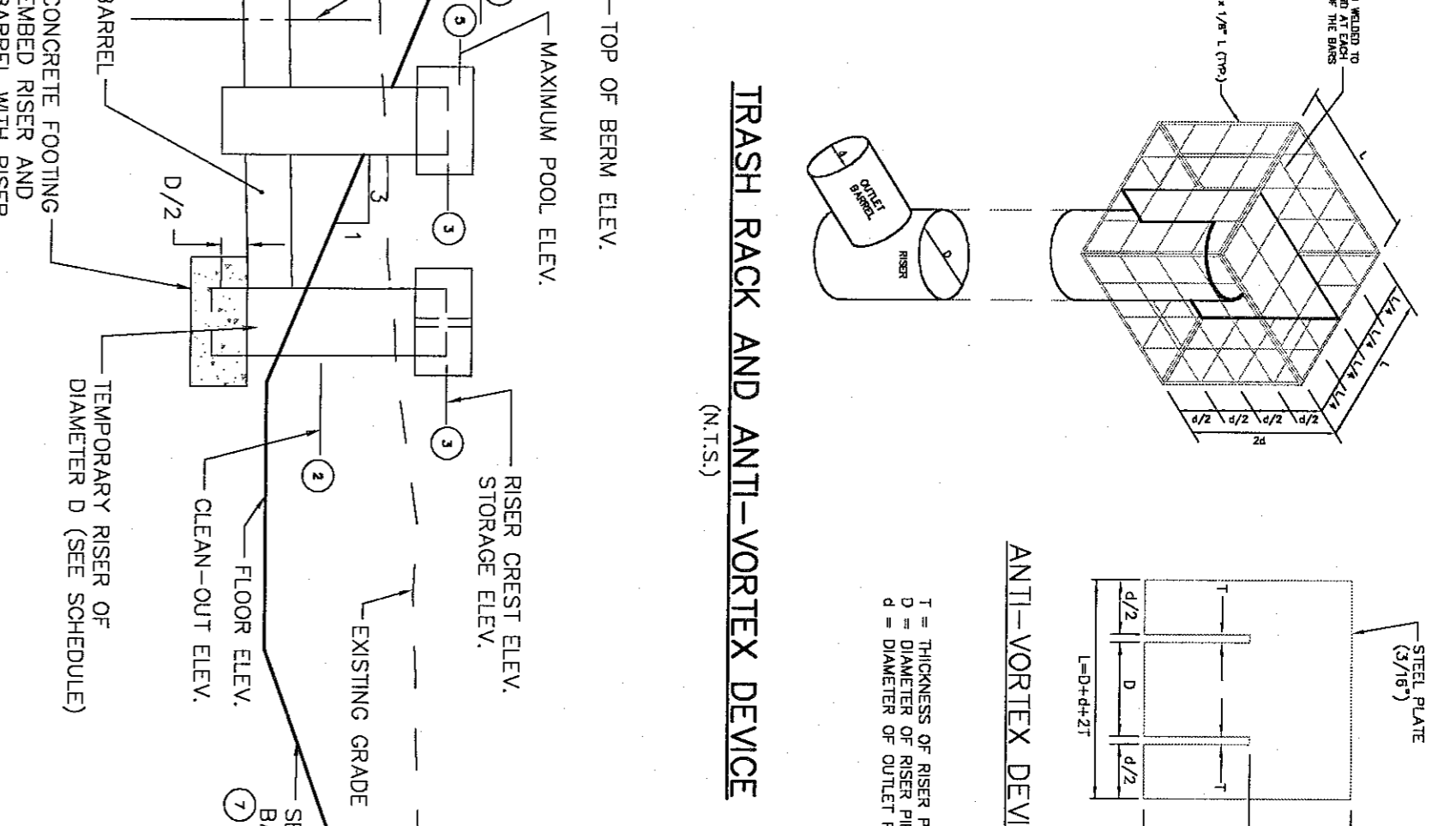
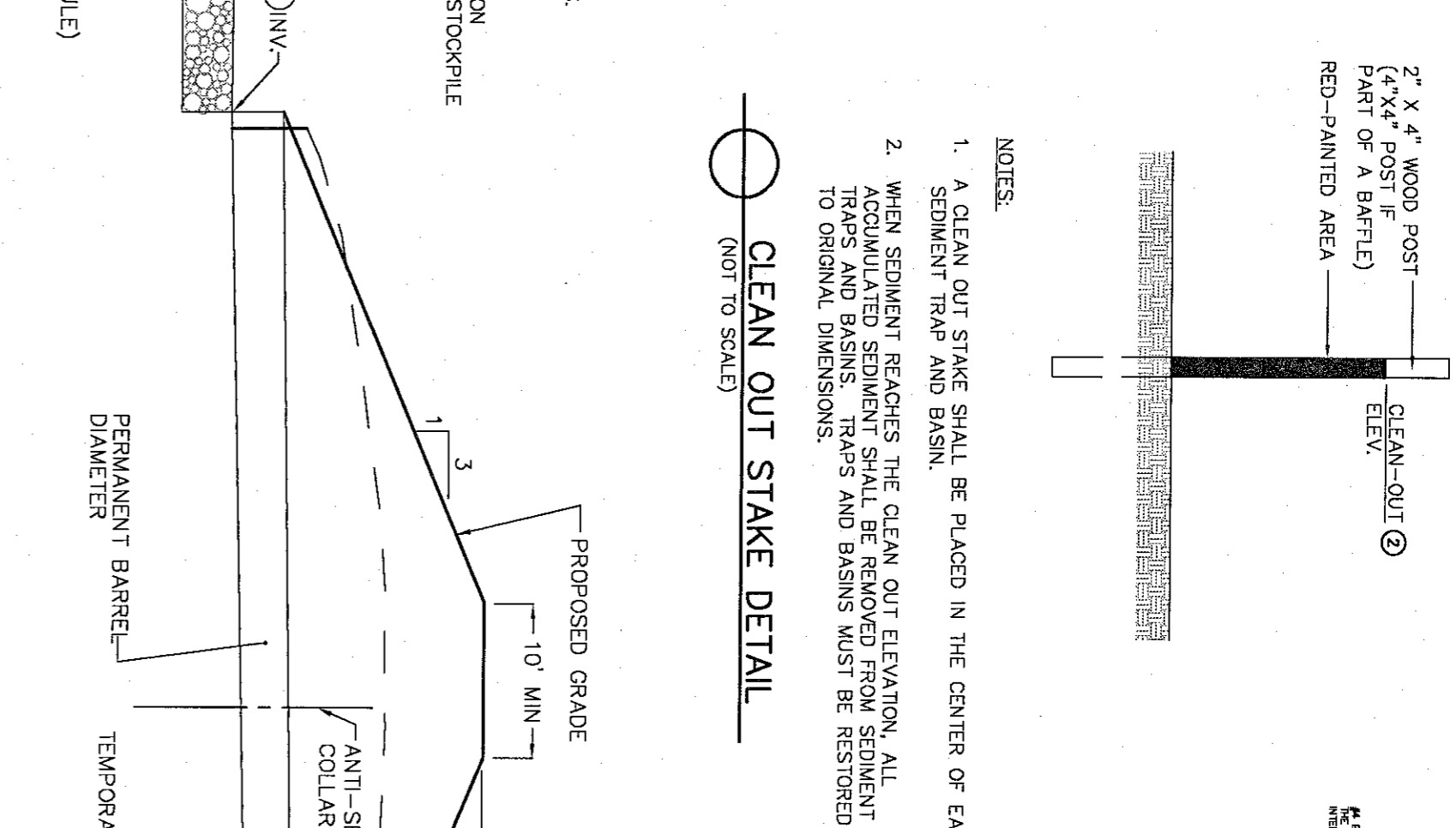
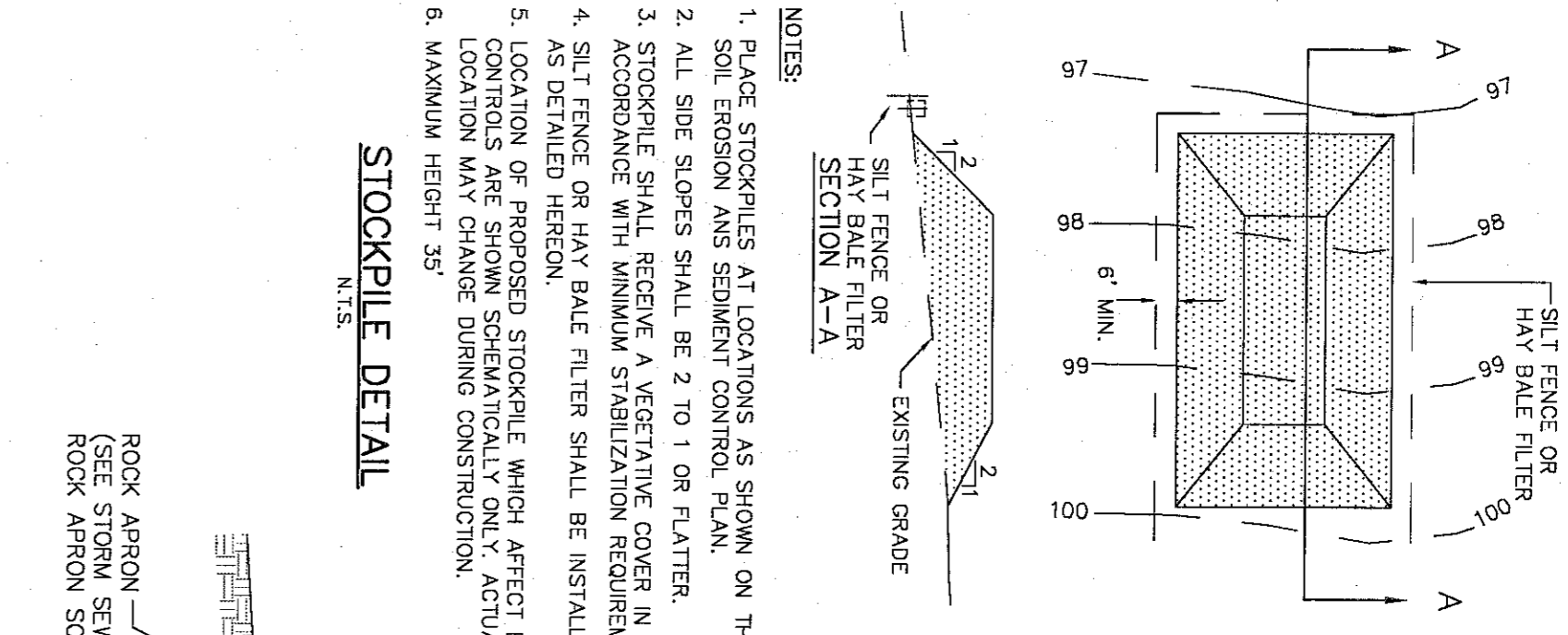
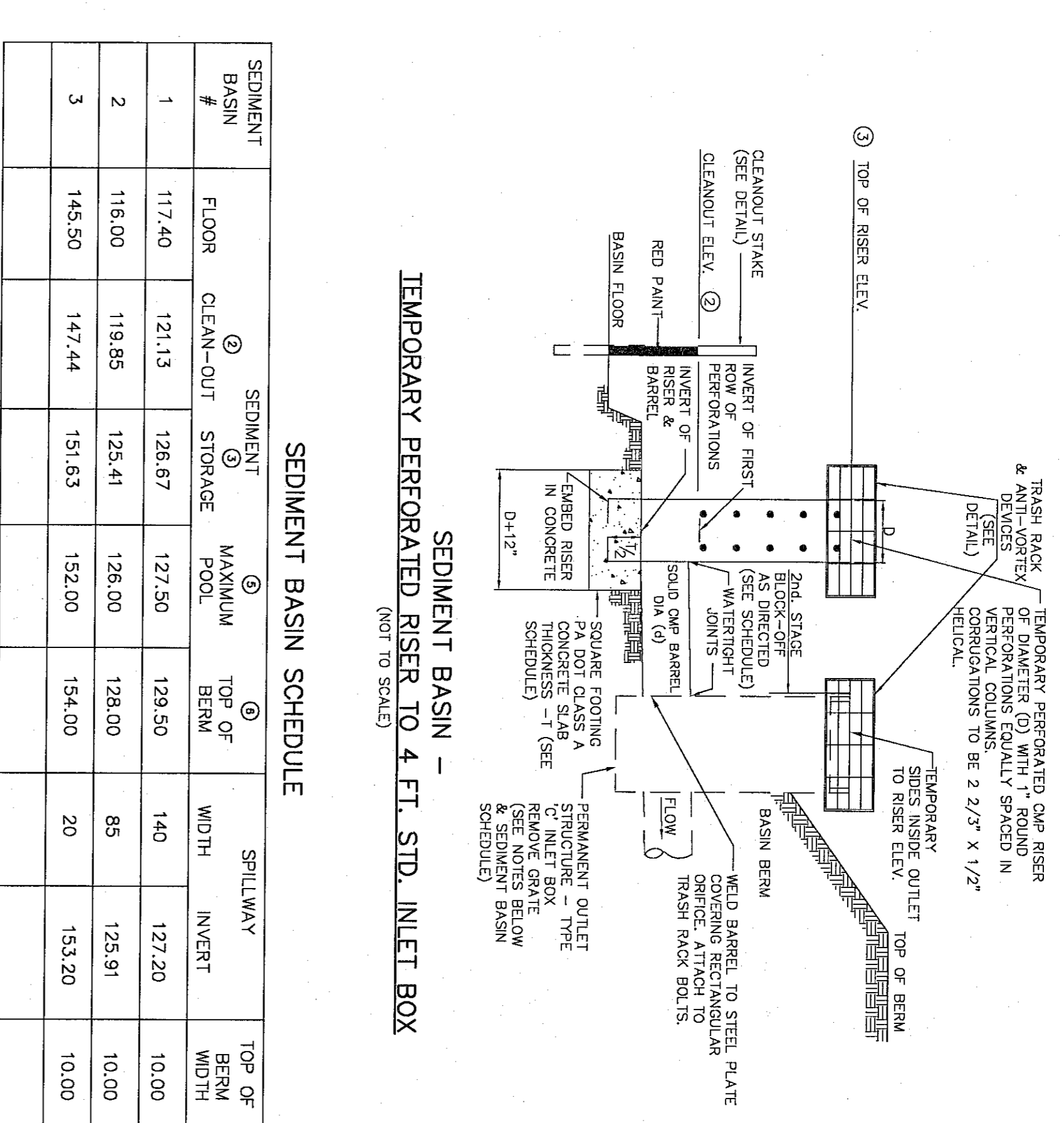


- NOTES:
- THE SEDIMENT BASIN SHOWN ON THESE PLANS DEPENDS UPON THE DISTURBANCE TO BE PERMITTED TO OCCUR. ONLY LIMITED UPGRADE DISTURBANCE WILL BE PERMITTED TO PROVIDE FOR PLACING OF THE SEDIMENT BASIN FOR GRADING, ACQUIRING BORROW OR PLACING OF THE SEDIMENT CONSTRUCTION OF THE BASIN.
 - SEDIMENTATION BASINS MUST BE STRUCTURALLY SOUND AND PROTECTED FROM UNAUTHORIZED ACCESS BY THIRD PARTIES.
 - SEDIMENT MUST BE REMOVED FROM BASINS WHEN STORAGE CAPACITIES ARE FULL. SEDIMENT SHOULD BE REMOVED FROM THE BASIN WHEN SEDIMENT REACHES THE CLEANOUT ELEVATION IN HALF THE CAPACITY.
 - TEMPORARY RISERS AND BARRELS SHALL BE ALUMINUM OR GALVANIZED STEEL STRUCTURE WITH 2" X 3" X 1/2" HELIX.
 - SITE PREPARATION: AREAS UNDER THE EMBANKMENT, OR ANY STRUCTURAL WORK, SHALL BE CLEARED, GRADED, TOPSOIL STRIPPED, AND TREES, ROOTS AND OTHER OBSTACLES SHALL BE REMOVED. ALL TREES AND BRUSH TO REMAIN SHALL BE CLEARED OF THE BASIN.
 - EMBANKMENT (DAM): FILL SHALL BE FREE OF ROOTS, STONES, WOODY VEGETATION, BOULDERS AND OTHER EXTRANEUS MATERIAL. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO CONSTRUCTION. FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 18" IN THICKNESS SO THAT IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, THE SOIL IS NOT COMPACTED. FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 6" TO 8" INCHES THICK AND SHALL BE COMPACTED BY ROLLING OR OTHER MEANS. THE FILL SO THAT THE ENTIRE SURFACE OF THE FILL IS COMPACTED TO AN ELEVATION 10% HIGHER THAN THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION 10% HIGHER THAN THE EMBANKMENT. IF COMPACTORS ARE USED, THE OVERLAP SHALL BE REDUCED BY 5%. EMBANKMENT SHALL BE COMPACTED TO NO LESS THAN 95% OF THE THEORETICAL DENSITY. FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 18" IN THICKNESS AND SHALL BE PLACED ON ANY MATERIAL FROZEN TO A DEPTH OF 3" INCHES OR MORE. REMOVE FROZEN MATERIAL, IF THE EMBANKMENT TOP FREEZES TO A DEPTH OF 3" INCHES OR MORE, BEFORE PLACING ADDITIONAL MATERIAL.
 - EMERGENCY SPILLWAY: THE EMERGENCY SPILLWAY LINES AND GRASSES PROTECTION AS SPECIFIED IN THE DETAILS. INSTALL EMBANKMENT DURING CONSTRUCTION OF THE SEDIMENT BASIN AND THROUGHOUT ITS CONSTRUCTION. THE SEDIMENT BASIN SHALL BE PLACED IN AN OPEN, IMPROVED AREA. DURING THIS PERIOD GRASS VEGETATION SHALL BE THE ONLY APPROVED STABILIZATION PLANTING.
 - TO DRAIN THE BASIN THROUGH A TEMPORARY CLEAN OUT PUMP STATION WATER (SEE DETAIL).

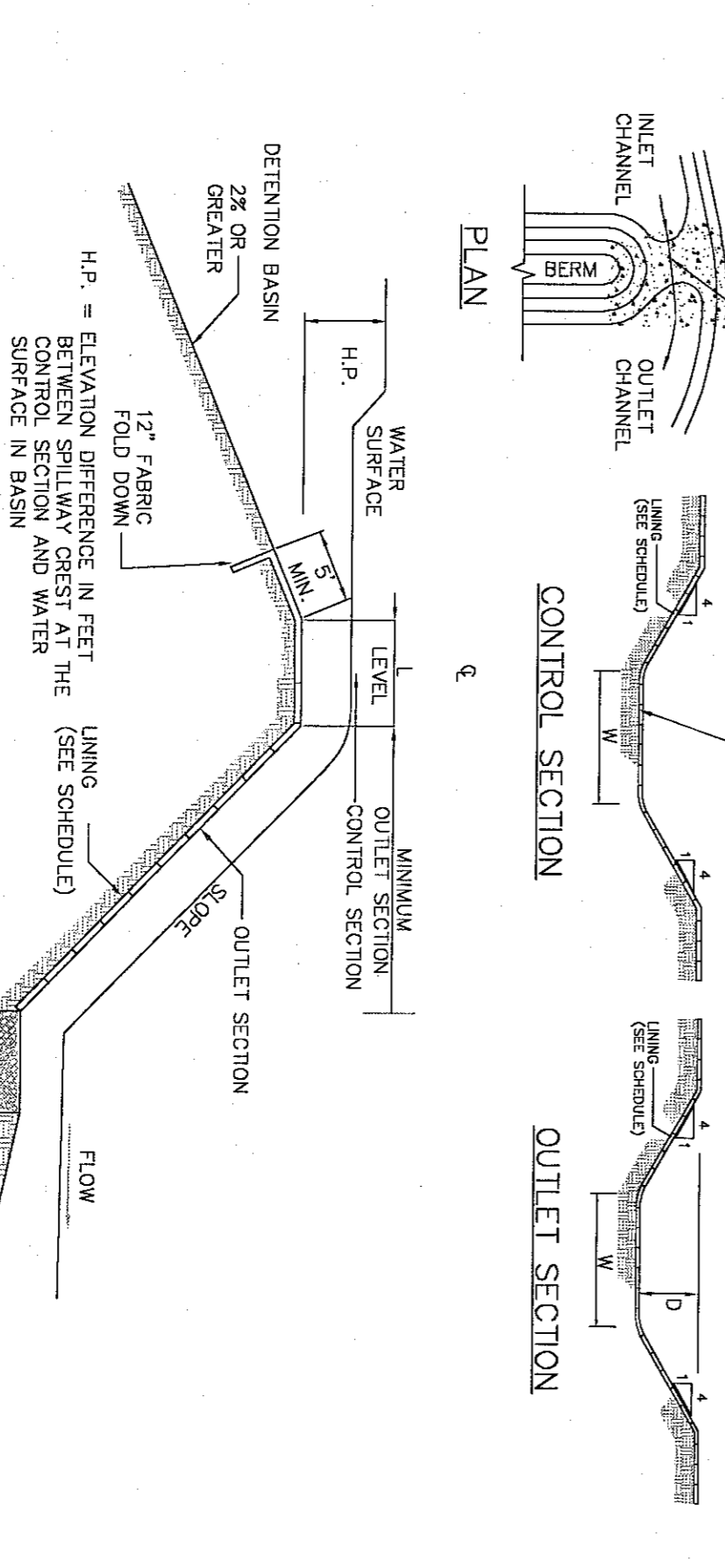
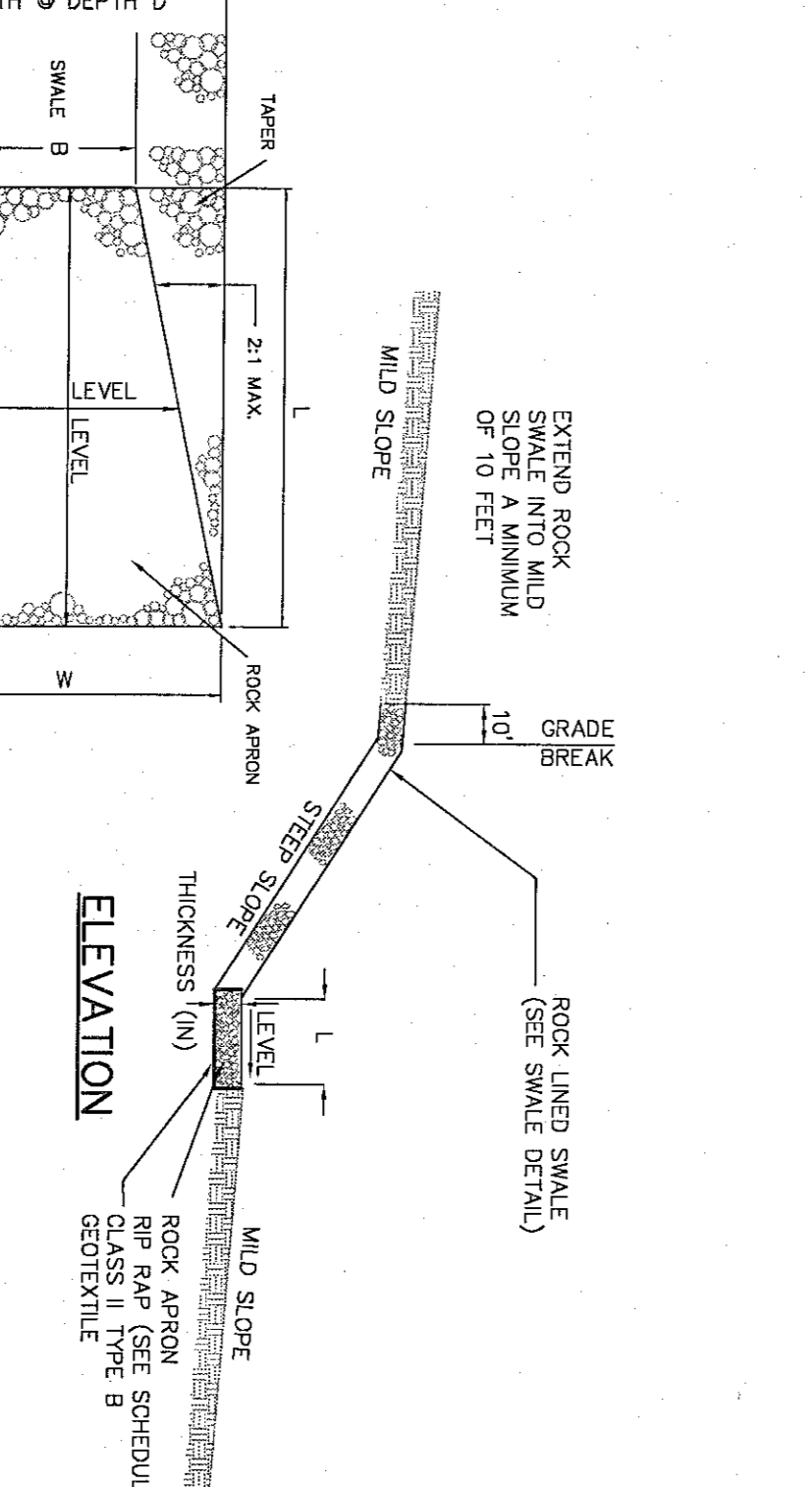
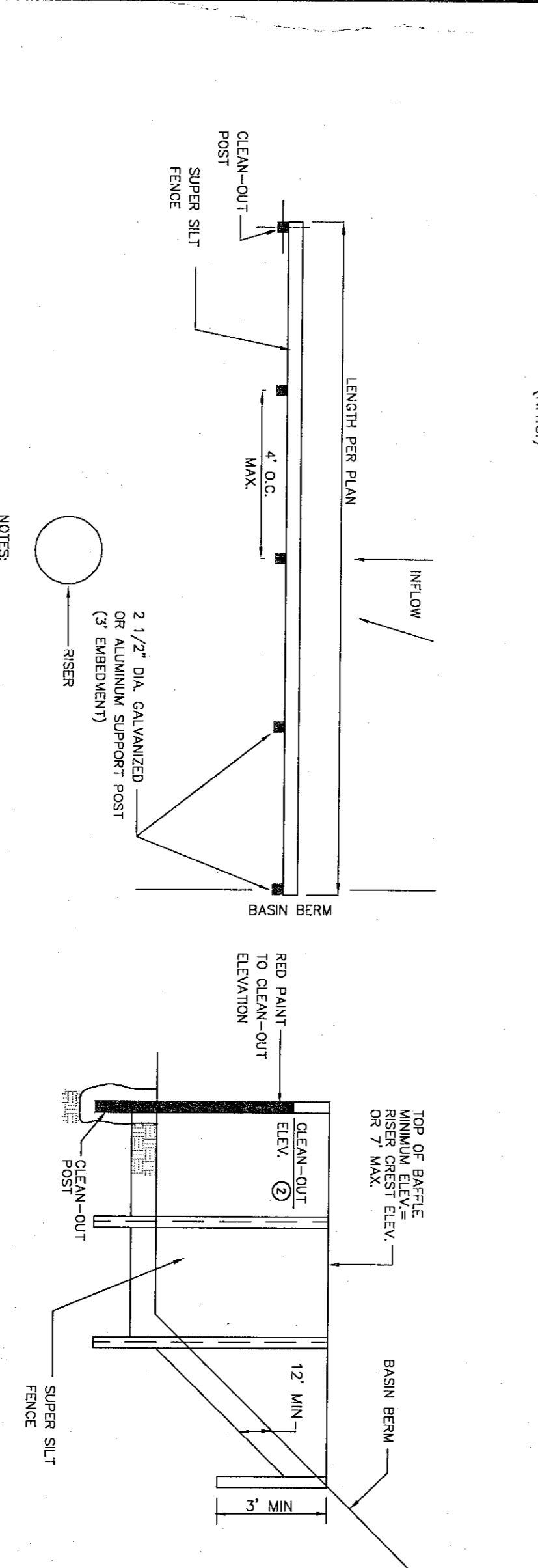
SEDIMENT BASINS
(NOT TO SCALE)



RISER SCHEDULE FOR SEDIMENT BASINS

SEDIMENT BASIN #	BARREL DIA (in) d	RISER DIA (in) D	INVERT (ft) ①	CREST (ft) ②	SLAB THICKNESS (in) ③	# OF COLUMNS	VERTICAL SPACING (in) ④	1st ROW INVERT (ft) ⑤	# OF ROWS	# OF PERFORATIONS	REMARKS
1	24	72	117.40	126.67	20	6	21	121.13	4	24	BLOCK WIER TO ELEV. = 126.75
2	18	36	116.00	125.41	16	2	18	119.85	4	8	TOP OF BOX = 122.00 USE TEMPORARY CONCRETE BOX EXTENSION TO ELEV. 125.41
3	12	42	146.00	151.63	12	1	21	147.44	3	3	

PERMANENT STRUCTURE WITH CONCRETE BOX EXTENSION
(N.T.S.)



SEDIMENT BAFFLE DETAIL
(NOT TO SCALE)

BASIN NO.	BAFFLE LENGTH	BAFFLE HEIGHT	BOT. ELEV.	TOP ELEV.	RISER ELEVATION	CLEANOUT ELEVATION
2	110'	7'00"	116.00	123.00	125.41	119.85

SWALE LINED SWALE - ROCK APRONS
(NOT TO SCALE)

SWALE #	APRON W (ft)	THICK (in)	RIP RAP SIZE (in)	FILTER SIZE (in)
ES 1	143	8	R-2	0.13
ES 2	88	8	R-2	0.13
ES 3	14	7	R-4	0.50
TS 1	411R	19	R-4	0.50
TS 2		14	R-4	0.50
TS 3		31	R-4	0.50
TS 4		18	R-4	0.50

EMERGENCY SPILLWAY SCHEDULE

BASIN #	TOP OF BERM ELEV.	CONTROL SECTION WIDTH INVERT LINING	PERMANENT SECTION WIDTH INVERT LINING	TEMPORARY SECTION WIDTH INVERT LINING	MAX SLOPE	W	D	LINING
1	129.50	140	127.20	GRASS	.250	140	2.30	GRASS W/ CI25
2	128.00	85	125.91	GRASS	.250	85	2.09	GRASS W/ CI25
3	154.00	20	153.20	GRASS	.250	20	0.80	GRASS W/ S75

SOIL EROSION & SEDIMENT CONTROL DETAILS
REGENCY AT PROVIDENCE (a.k.a. FOGEL TRACT)
PROVIDENCE TWP., MONTGOMERY CO., PENNSYLVANIA

DATE: 12/8/03
DESIGN: JH
JOB NO.: 114
FILE NAME: S-DET-EN

1. SEE DETENTION BASIN DETAILS FOR MORE INFORMATION

REV. DATE DESCRIPTION DRAWN

5	1/31/05	FINAL CONSTRUCTION DRAWINGS	MDD
4	9/16/04	MCCD MEETING ON 7/30/04	JMM
3	8/04/04	AGENCY REVIEW LETTER DATED 7/29/04	MDD
2	7/21/04	AGENCY REVIEW LETTERS 6/29/2004, 6/30/2004	MDD
1	6/07/04	AGENCY REVIEW LETTERS; TOWNSHIP COMMENTS	PAB

ESE EASTERN STATES ENGINEERING
250 GIBRALTAR ROAD SUITE 2E HORSHAM, PA 19044 TEL: (215) 914-2050 FAX: (215) 293-5488
CIVIL ENGINEERS - LAND SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS

JAMES D. TAKACS
REGISTERED PROFESSIONAL ENGINEER
PENNSYLVANIA