

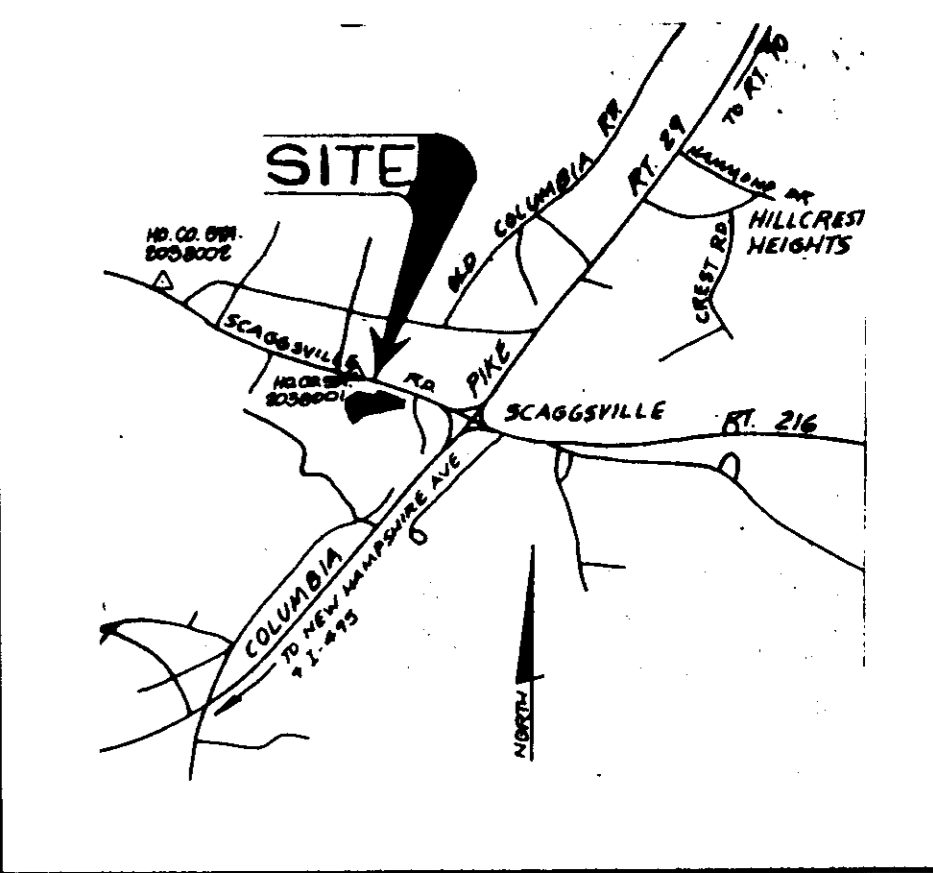
# SITE DEVELOPMENT PLAN

# ST. FRANCIS OF ASSISI MISSION

# WORSHIP AND PARISH CENTER

## 5th ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1" = 2000'

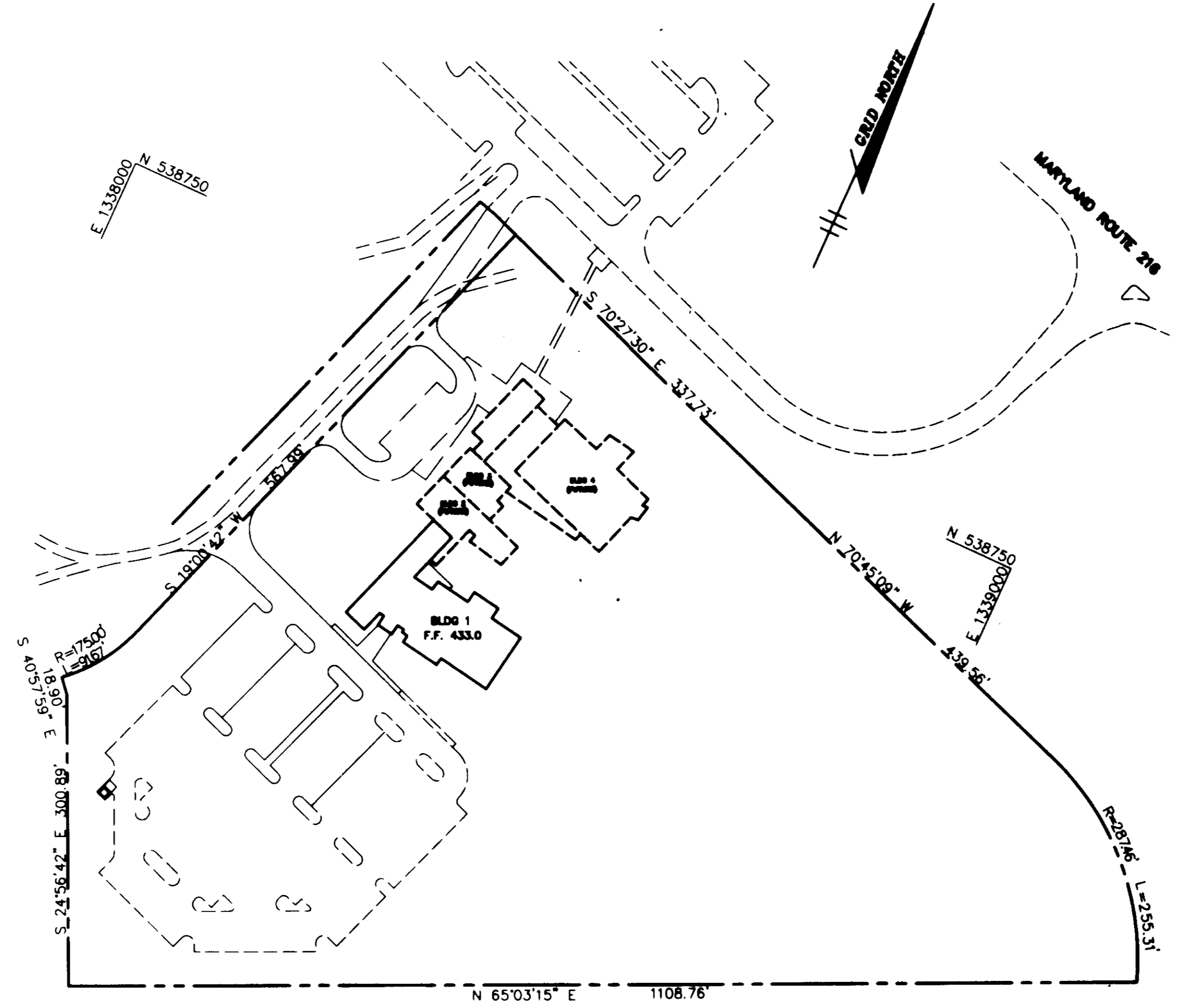
SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP
4	STORM DRAIN PROFILES, NOTES AND DETAIL CHECK
5	PROFILES NOTES AND DETAILS
6	NOTES AND DETAILS
7	LANDSCAPING PLAN

### SITE ANALYSIS

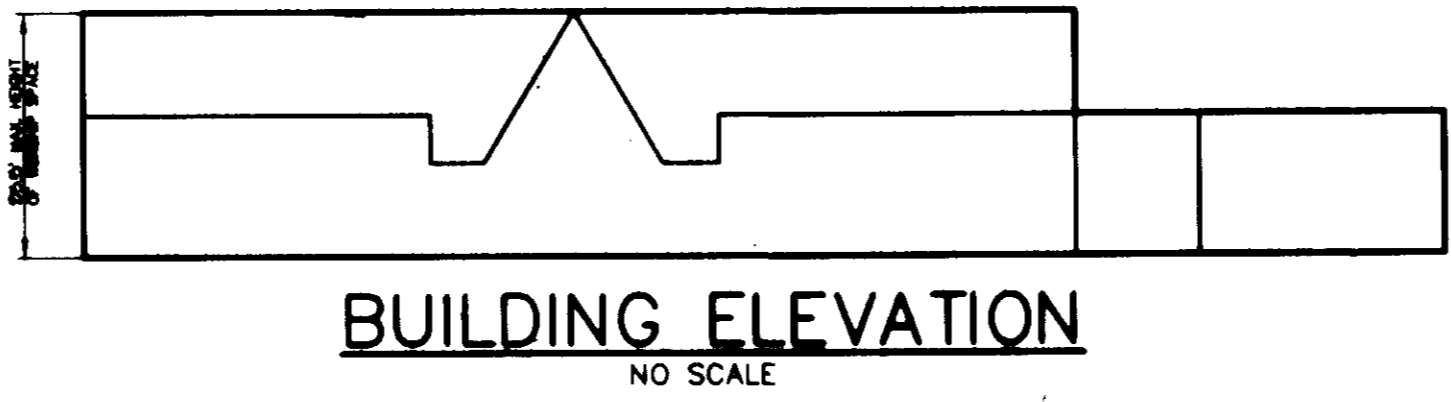
AREA OF PARCEL	12.47 ACRES (543,406 SF)
PRESENT ZONING	RR-DEO
PROPOSED USE	RELIGIOUS FACILITY
BUILDING COVERAGE	12,070 SF (6.4% OF SITE)
MAIN ASSEMBLY AREA	6699 SF
# OF PARKING SPACES REQUIRED	67 SPACES*
• 10 SPACES/1000 SQUARE FEET	
# OF PARKING SPACES PROVIDED	71 SPACES INCLUDING 3 HC SPACES
PAVED PARKING LOT AREA	0.70 ACRES (30,492 SF)
* PER ZONING REGULATIONS SECTION 13.3	

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE & ASSOC. DATED MAY 1994.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
- ON-SITE WATER IS PRIVATE.
- ON-SITE POWER IS PRIVATE.
- THE STORMWATER MANAGEMENT FACILITY PROPOSED FOR THIS SITE IS A RETENTION-TYPE, PRIVATE FACILITY TO BE MAINTAINED BY THE OWNER.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY RIEMER MUEGGE & ASSOCIATES, INC. DATED AUGUST 1, 2000.
- THE GEOTECHNICAL STUDY FOR STORMWATER MANAGEMENT ON THIS PROJECT WAS PREPARED BY GEOTECH ENGINEERS, INC. DATED AUGUST 11, 1995.
- THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY RIEMER MUEGGE & ASSOCIATES DATED AUGUST 1, 2000.
- SUBJECT PROPERTY ZONED RR-DEO PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NOS. BA 90-57E, BA 95-12E, P-21-17E, PERC. APPLICATION NO. A49926, AND STATE WATER APPROPRIATIONS PERMIT NO. H0950009(01).
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.
- BA 95-12E WAS A SPECIAL EXCEPTION PETITION FOR THIS CHURCH TO BE BUILT ON LAND ZONED AS RR-DEO AND WAS GRANTED ON AUGUST 3, 1995.
- GROUNDWATER APPROPRIATIONS PERMIT FOR THIS SITE HAS BEEN ISSUED UNDER PERMIT # H0950009(01) AND EXPIRES ON AUGUST 1, 2007, IF WATER IS NOT PUT INTO USE. OTHERWISE IT EXPIRES ON AUGUST 1, 2007.
- UNDER SECTION 16.00E (b)(2), THE FOLLOWING DEVELOPMENT IS EXEMPT FROM THE REQUIREMENTS OF THE SUBTITLE BASED ON FILING OF DECLARATION OF INTENT STATING THAT ON A SINGLE LOT THE CLEARING OF FOREST WILL BE LESS THAN 40,000 SQ. FT.
- THE JOINT PERMIT TRACKING WOULD FOR DISTURBANCE TO THE WETLANDS AND BUFFERS IS 100000000.
- WP-20-100 - A REQUEST TO WAIVE SECTION 16.11G (a)(1) & (2), WHICH PROHIBITS GRADING OR REMOVAL OF VEGETATIVE COVER WITHIN THE 25 FOOT WETLAND BUFFER, AND THE 75 FOOT STREAM BUFFER, WAS APPROVED BY THE PLANNING DIRECTOR ON MAY 20, 2000.



PLAN  
SCALE: 1" = 100'



### BENCHMARKS

<b>BENCHMARK #1</b>	<b>BENCHMARK #2</b>
5/8" REBAR & CAP	5/8" REBAR & CAP
N 538272.2961	N 538387.2307
E 1,338,203.4633	E 1,338,950.5244
EL. 441.80	EL. 418.38

OPERATION AND MAINTENANCE SCHEDULE OF PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FACILITY WET DETENTION POND

- ### ROUTINE MAINTENANCE
- Facility shall be inspected annually and after major storms. Inspections should be performed during wet weather to determine if the pond is functioning properly.
  - Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year, once in June and once in September. Other side slopes and maintenance access should be mowed as needed.
  - Debris and litter next to the outlet structure shall be removed during regular mowing operations and as needed.
  - Visible signs of erosion in the pond as well as riprap outlet area shall be repaired as soon as it is noticed.
- ### NON-ROUTINE MAINTENANCE
- Structural components of the pond such as the dam, the riser, and the pipes shall be repaired upon the detection of any damage. The components should be inspected during routine maintenance operations.
  - Sediment should be removed when its accumulation significantly reduces the design storage, interfere with the function of the riser, when deemed necessary for aesthetic reasons, or when deemed necessary by the Howard County's Department of Public Works.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

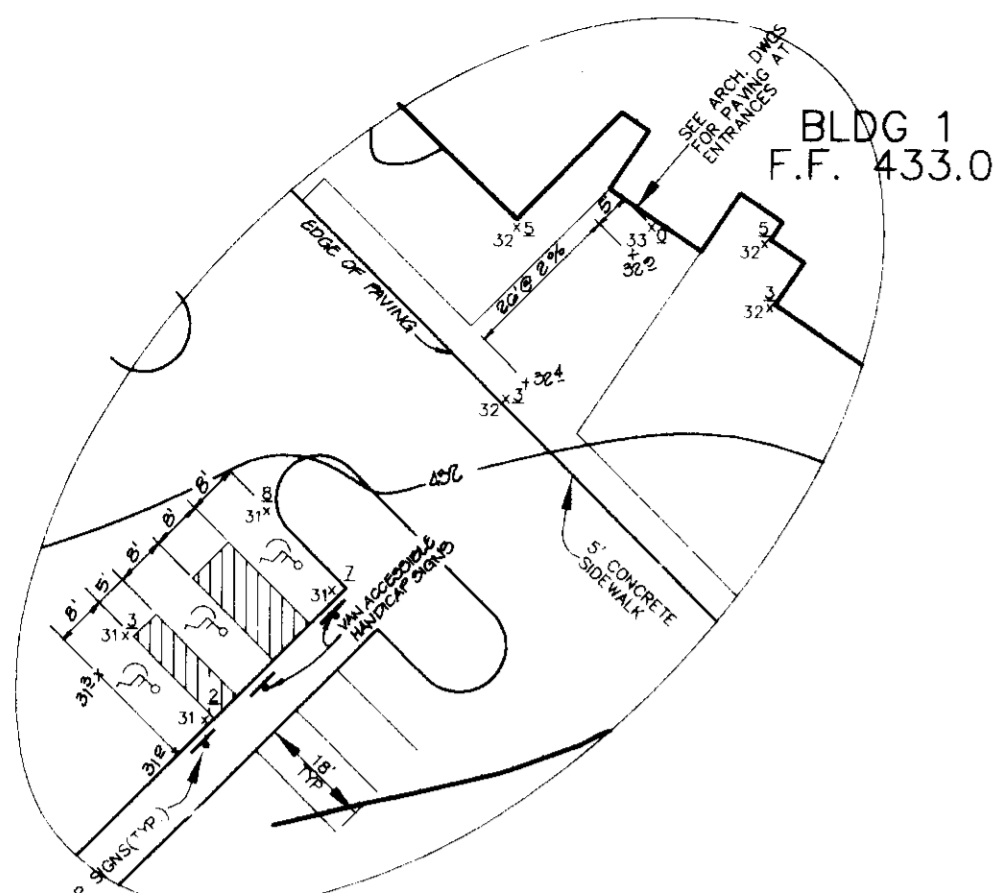
*Jaykant D. Parekh* 8/22/96  
HOWARD COUNTY HEALTH OFFICER DATE

### ADDRESS CHART

PARCEL	STREET ADDRESS
337, LOT 1	11505 SCAGGSVILLE RD

BLK	LOT	AREA	PERCENT	DATE
10180	3	RR-DEO	46	508
				6051.02

AS BUILT CERTIFICATE	
DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>John D. ...</i> 8/22/96 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	
<i>Richard Blood</i> 10/16/96 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE	
<i>Scott ...</i> 10/16/96 DIRECTOR DATE	
DATE	REVISION
OWNER/DEVELOPER	
ARCHDIOCESE OF BALTIMORE ST. FRANCIS OF ASSISI CHURCH 11445 SCAGGSVILLE RD. FULTON, MD 20759 (410) 792-0470	
PROJECT	
ST. FRANCIS OF ASSISI MISSION PHASE 1 WORSHIP AND PARISH CENTER	
AREA	PARCEL 337 LOT 1 TAX MAP 46 ZONED RR-DEO 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	
TITLE SHEET	
RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282	
8/22/96 DATE	
DESIGNED BY: CJR	
DRAWN BY: RPP	
PROJECT NO: HOCO\98402 SDP1.DWG	
DATE: AUGUST 22, 1996	
SCALE: 1" = 100'	
DRAWING NO. 1 OF 7	
<i>J. Parekh</i> JAYKANT D. PAREKH #19148	



BETTY L. WHETZEL  
PARCEL 337 IMPSLOT 5  
00813/0575  
ZONED RR-DEO

BETTY L. WHETZEL  
PARCEL 337 IMPSLOT 6  
00813/0575  
ZONED RR-DEO

NOTE: FUTURE GRAVEL PARKING TO BE GRADED TO SUBGRADE ELEVATION WITH A 4" STONE TRANSITION TO PROPOSED PAVING. FINAL GRADES ARE SHOWN ON THIS PLAN. CONTRACTOR TO ASSURE 8" TO GRAVEL SUBGRADE.

LOT 2  
SOPER  
P/O PARCEL 337  
PLAT NO. 4383  
ZONED RR-DEO  
(See Form Agreement)  
4/16/96

GEORGE D. WEISMAN  
PARCEL 332 IMPSLOT 11  
1326/0032  
ZONED RR-DEO

**SEPTIC SYSTEM TRENCH DESIGN DATA**  
INLET DEPTH 40'  
DITCH DEPTH 80'  
DITCH DEPTH 40'  
TRENCH LENGTH 500'  
PHASE 1 FLOW 1800 G.P.D.  
SEPTIC TANK 2-1800 GAL. TAKING IN SERIES  
GROUND WATER APPROPRIATIONS PERMIT # H008000(D)

- NOTES:
- EXISTING POND OUTFALL & EMBANKMENT TO BE REMOVED AND NEW EMBANKMENT CONSTRUCTED TO MD-378 STANDARDS
  - R.P.-RAP CHANNEL TO BE TIED TO EXISTING NATURAL CHANNEL

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

Jaykant D. Parekh 9-30-96  
FORWARD COUNTY HEALTH OFFICER #19148 DATE

- NOTES:**
- ALL EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES.
  - CURB RADI IS 5' UNLESS OTHERWISE NOTED.
  - ALL EXISTING FENCE TO BE CAREFULLY REMOVED UNLESS OTHERWISE NOTED. RETURN REMOVED FENCING TO OWNER IN GOOD CONDITION.

- LEGEND**
- P-2 PAVING
  - P-1 PAVING
  - CONCRETE
  - PERCOLATION AREA
  - PROPOSED LIGHTS (SEE DETAIL SHEET 4)

THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THESE EASEMENTS SHALL REMAIN FULL AND VIGOR UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECONSTRUCTION OF A MODIFIED SEWERAGE EASEMENT PLAN SHALL NOT BE NECESSARY.

**Σ OF DAM DATA CHART**

POINT NO.	LOCATION	POINT NO.	E DATA
1	N 85° 56' 07" E 1300000.87	1	N 85° 40' 50" E, 3072'
2	N 85° 56' 28" E 1300001.14	2	R=5000', L=12.05'
3	N 85° 56' 24" E 1300007.10	3	R=8522', L=29.07'
4	N 85° 56' 48" E 1300040.70	4	R=18287', L=78.00'
5	N 85° 56' 01" E 1300110.14	5	N 81° 36' 56" E, 40.35'
6	N 85° 56' 28" E 1300164.08	6	R=2704', L=78.00'
7	N 85° 43' 28" E 1300232.30	7	R=3531', L=22' W, 3.21'

**SNWF DESIGN SUMMARY**

DESIGN STORM (yr)	ALLOWABLE RELEASE (cfs)	FACILITY INFLOW (cfs)	FACILITY DISCHARGE (cfs)	WATER SURFACE ELEVATION (ft)	STORAGE VOLUME (cc-ft)
2	4.8	25.7	3.9	402.28	1.1
10	25.5	56.8	25.0	403.82	2.0
100	58.2	125.4	54.0	406.07	3.7

**AS BUILT CERTIFICATE**

DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Richard Blood* 9/2/96  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Richard Blood* 10/1/96  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

*Joseph J. Smith* 10/1/96  
DIRECTOR DATE

DATE NO. \_\_\_\_\_ REVISION \_\_\_\_\_

OWNER/DEVELOPER

ARCHDIOCESE OF BALTIMORE  
ST. FRANCIS OF ASSISI CHURCH  
11445 SCAGGSVILLE RD.  
FULTON, MD 20759  
(410) 792-0470

PROJECT

**ST. FRANCIS OF ASSISI MISSION**  
PHASE 1  
WORSHIP AND PARISH CENTER

AREA

PARCEL 337 LOT 1  
TAX MAP 46 ZONED RR-DEO  
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE

**SITE DEVELOPMENT PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.  
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282

8/27/96  
DATE

DESIGNED BY: CJR

DRAWN BY: RPP

PROJECT NO: H00098402  
SDP2.DWG

DATE: AUGUST 20, 1996

SCALE: 1" = 50'

DRAWING NO. 2 OF 7

MARYLAND STATE HIGHWAY  
PARK AND RIDE FACILITY

GRID NORTH

**SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT AND WETLANDS PERMIT. PRECONSTRUCTION CONFERENCE TO INCLUDE MDE REPRESENTATIVE, OBTAIN DWP INSPECTOR'S APPROVAL TO PROCEED.
  - INSTALL STABILIZED CONSTRUCTION ENTRANCE, SLOTTED FENCE, EARTH DIKES AND SEDIMENT BASIN INCLUDING STRUCTURES & PERMIT APPROVAL OF DEPARTMENT OF INSPECTION, LICENCED AND PERMITS SEDIMENT CONTROL INSPECTOR. INSTALL G'DIP POND DRAIN. REPLACE EXISTING POND CEMENT WITH NEW EMBANKMENT BUILT TO MD-57B STANDARDS (2 WEEKS)
  - INSTALL STORM DRAIN SYSTEM FROM E-1 TO I-3. REMOVE FENCES AS NEEDED. (10 DAYS)
  - BEGIN ROUGH GRADING AND BUILDING CONSTRUCTION. (2 WEEKS)
  - AS SUBGRADE ELEVATION IS REACHED, INSTALL UTILITIES INCLUDING WATER, SEWER, AND UNDERGROUND TANK. (10 DAYS)
  - PAVE PARKING AREA AND ROAD. (4 DAYS)
  - STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 DAY)
  - INSTALL LANDSCAPING AND COMPLETE REMAINING CONSTRUCTION.
  - UPON APPROVAL OF DEPARTMENT OF INSPECTIONS, LICENCES, AND PERMITS INSPECTOR, REMOVE REMAINING SEDIMENT CONTROL DEVICES AND CONVERT SEDIMENT BASIN TO PERMANENT SWM IN THE FOLLOWING STEPS:
    - PUMP OUT STANDING WATER. (1/2 DAY)
    - REMOVE ACCUMULATED SEDIMENT. (1 DAY)
    - COMPLETE GRADING AND INSTALL FOREBAY, AS PER SHEET 2. (2 DAYS)
    - REMOVE DEWATERING DEVICE BUT LEAVE PERMANENT DRAIN IN PLACE. (1/2 DAY)
    - REMOVE BRICK BLOCKING OF 3" WEIR & 6" ORIFICE
    - STABILIZE REMAINING AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- \* PROVIDE TEMPORARY BRICK BLOCKING OF 3" WEIR AND 6" ORIFICE ON 3-1 PER DETAIL.

BY THE DEVELOPER:  
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Rev. Thomas P. Hall* 8/25/96  
DEVELOPER DATE

BY THE ENGINEER:  
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*J. Farrell* 8/27/96  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*J.C. Waddell /CS* 9/10/96  
NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 9/10/96  
HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*[Signature]* 9/12/96  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 10/4/96  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

*[Signature]* 10/4/96  
DIRECTOR DATE

DATE	NO.	REVISION

OWNER/DEVELOPER  
ARCHDIOCESE OF BALTIMORE  
ST. FRANCIS OF ASSISI CHURCH  
11445 SCAGGSVILLE RD.  
FULTON, MD 20759  
(410) 792-0470

PROJECT  
**ST. FRANCIS OF ASSISI MISSION**  
PHASE 1  
WORSHIP AND PARISH CENTER

AREA  
PARCEL 337 LOT 1  
TAX MAP 46 ZONED RR-DEO  
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE  
**SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP**

**RIEMER MUEGGE & ASSOCIATES, INC.**  
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282

8/27/96  
DATE

DESIGNED BY: CJR  
DRAWN BY: RPP  
PROJECT NO.: HOCO\98402  
SDP3.DWG  
DATE: AUGUST 26, 1996  
SCALE: 1" = 50'  
DRAWING NO. 3 OF 7

*J. Farrell*  
JAYKANT D. PAREKH #19148

**SEDIMENT BASIN**

DRAINAGE AREA	34.3 ac
STORAGE VOLUME REQUIRED	61,740 cf
STORAGE VOLUME PROVIDED	94,002 @ EL. 404.0
RISER SIZE	6.33' X 6.33'
RISER CREST	404.0
TOP OF DAM	408.0
BOTTOM ELEVATION	396.0
CLEANOUT ELEVATION	400.0

**OPERATION, MAINTENANCE AND INSPECTION**

Inspection of the pond(s) shown hereon shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, SCS "Standards and Specifications For Ponds" (MD 378). The pond owner(s) and any heirs, successors, or assigns shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.

NOTE:  
ALL DASHED BUILDING/PAVING FEATURES ARE PROPOSED IN FUTURE PHASES.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

*[Signature]* 9-30-96  
HOWARD COUNTY HEALTH OFFICER DATE

**LEGEND**

	SOIL DIVIDE AND TYPE
	LIMIT OF DISTURBANCE
	SILT FENCE
	DRAINAGE DIVIDE
	EARTH DIKE
	STABILIZED CONSTRUCTION ENTRANCE

BETTY L. WHETZEL  
PARCEL 337 IMPSLOT 5  
00813/0575  
ZONED RR-DEO

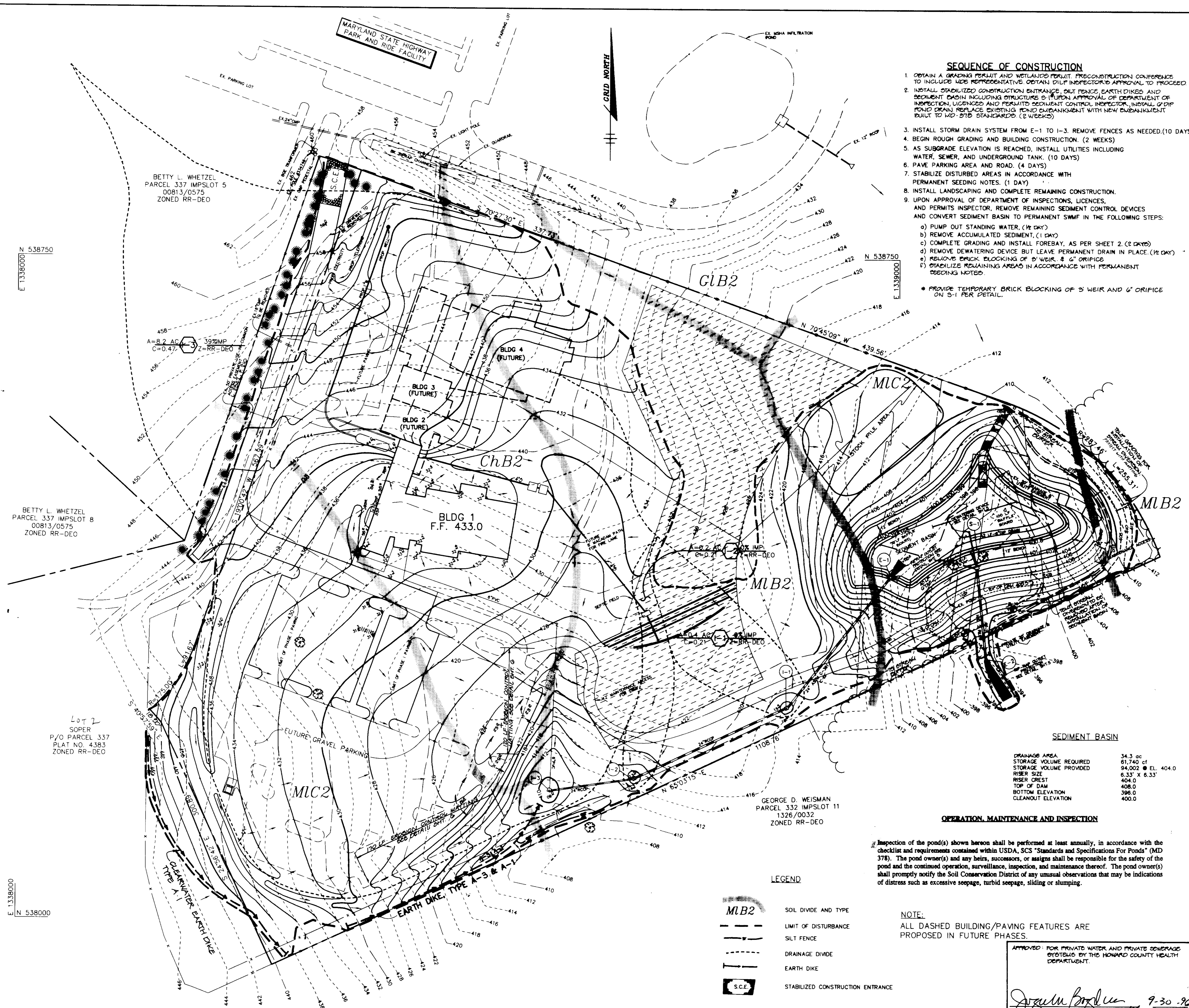
BETTY L. WHETZEL  
PARCEL 337 IMPSLOT 8  
00813/0575  
ZONED RR-DEO

LOT 2  
SOPER  
P/O PARCEL 337  
PLAT NO. 4383  
ZONED RR-DEO

GEORGE D. WEISMAN  
PARCEL 332 IMPSLOT 11  
1326/0032  
ZONED RR-DEO

E 1338000  
N 538000

E 1339000  
N 538750



**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

**Seeded Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

**Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.)

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 1 lb. per acre of weeping lovegrass (0.67 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**Mulching:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal per acre (5 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seeded Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

**Soil Amendments:** In view of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 50-0-0 urea-form fertilizer (9 lbs. per 1000 sq.ft.).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-0-0 fertilizer (24 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

**Seeding:** For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:

- 1) 2 tons per acre of well anchored mulch straw and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

**Mulching:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal per acre (5 gal. per 1000 sq.ft.) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseeding.

**SEDIMENT CONTROL NOTES**

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL AND REVISIONS THERE TO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES AND ALL SLOPES GREATER THAN (1:1), B) 14 DAYS AS TO OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS
  - TOTAL AREA OF SITE: 12.47 ACRES
  - AREA DISTURBED: 11.25 ACRES
  - AREA TO BE ROOFED OR PAVED: 1.23 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 10.02 ACRES
  - TOTAL CUT: 29,000 CU.YDS
  - TOTAL FILL: 29,000 CU.YDS
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
11. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
12. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
13. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
14. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**MD-378 STANDARDS AND SPECIFICATIONS**

These specifications are applicable to all ponds within the scope of the Standard for practice MD-378 and all references to ASCE and AASHTO specifications are for the most recent version.

**SITE PREPARATION**

Areas designated for borrow areas, embankment, and structural works shall be cleared, graded and shaped to meet the proposed "finished" grade. All areas to be excavated shall be cleared, graded and shaped to meet the proposed "finished" grade. Areas to be excavated shall be cleared, graded and shaped to meet the proposed "finished" grade. Areas to be excavated shall be cleared, graded and shaped to meet the proposed "finished" grade.

**Placement:** Areas on which fill is to be placed shall be cleared prior to placement of fill. The material shall be placed in maximum lifts of 4" (before compaction) layers which are to be compacted to the full depth of the embankment. The principal axes must be installed.

**Compaction:** The movement of the roadway and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one track of the equipment or compaction.

**Backfill:** Backfill to pipes or structures shall be of the type and quality specified in the specifications for the coping or material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other directed compaction equipment.

**Core Trench:** The core trench shall be excavated into impervious material and shall be filled with concrete. The bottom width of the trench shall be governed by the equipment used for excavation with the trench walls being at least 12" thick and the bottom at least four feet below existing grade or as shown on the plans.

**Backfill:** The backfill shall be compacted with construction equipment, rollers or hand tampers to assure maximum density and minimum permeability.

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**CARE OF WATER DURING CONSTRUCTION**

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, ditches, channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate and maintain necessary pumps and other equipment required for removal of water from the various parts of the work and for maintaining the excavation, foundation, and other parts of the work free from water or moisture or directed by the engineer for constructing each part of the work.

**Stabilization:** All corner areas shall be graded to provide proper drainage and left in a slightly rough condition. All exposed surfaces of the embankment, spillway, pool and borrow areas, and berms shall be stabilized by seeding, mowing, re-seeding and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown or as shown on the accompanying drawings.

**Erosion and Sediment Control:** Construction operations shall be carried out in such a manner that erosion will be controlled and water and sediment minimized. Tides and shall be concerning pollution abatement will be followed. Construction sites shall have erosion and sediment control measures to be employed during the construction process.

Refer to the 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

**Note:** AN ATTEMPT IS BEING MADE TO PRESERVE SUFFICIENT OPTIC AREA FOR FUTURE CONSTRUCTION OF A 24" DIA. HOWEVER NO FINAL COMMITMENT IS MADE UNTIL SPECIFIC OPTIC PLANS FOR THESE BUILDINGS ARE SUBMITTED AND REVIEWED.

**Note:** THE DISTANCE BETWEEN THE OPTIC AREA AND S.W. FACILITY AS SHOWN ON THESE PLANS SHALL NOT BE DECREASED DURING POND CONSTRUCTION.

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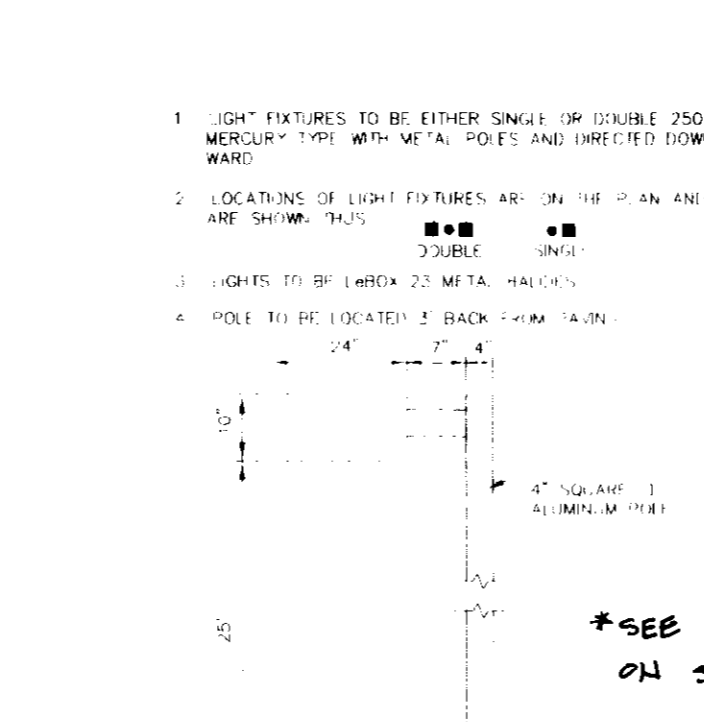
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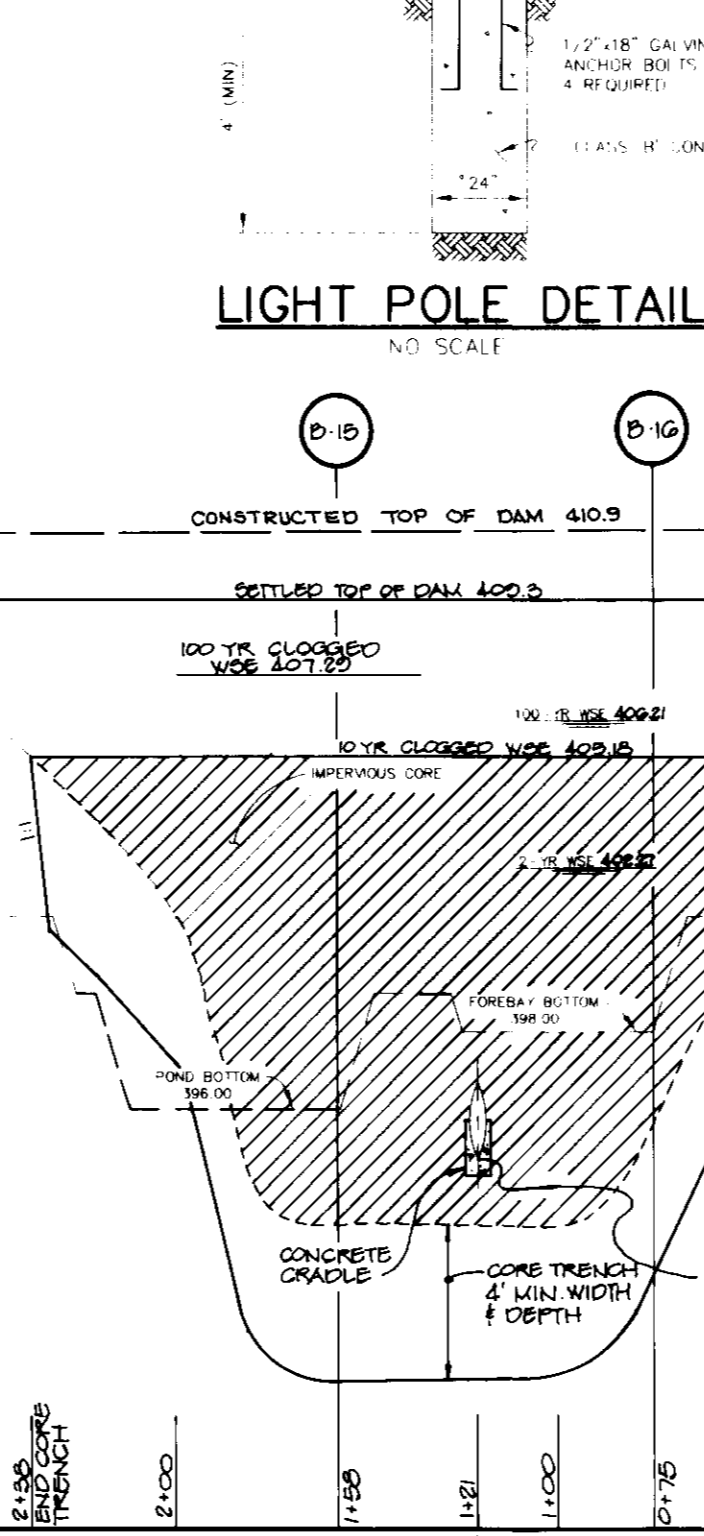
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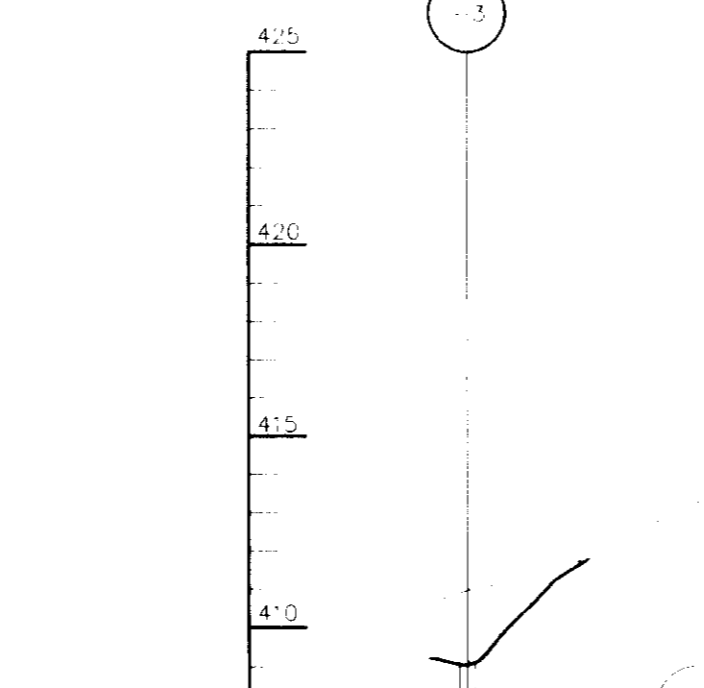
**LIGHT POLE DETAIL**



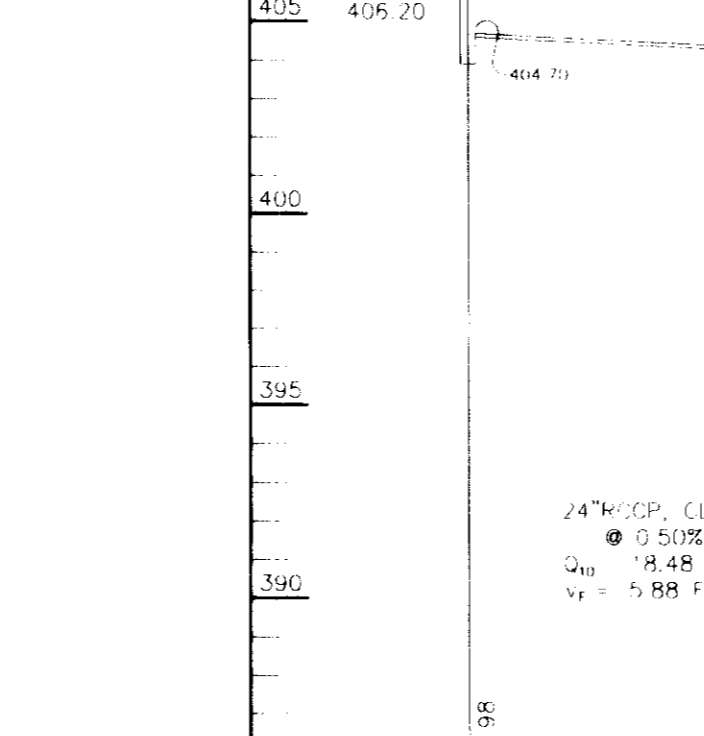
**PROFILE ALONG E OF DAM**



**ANTI-SEEP COLLARS**



**A-2 CONCRETE CRADLE**



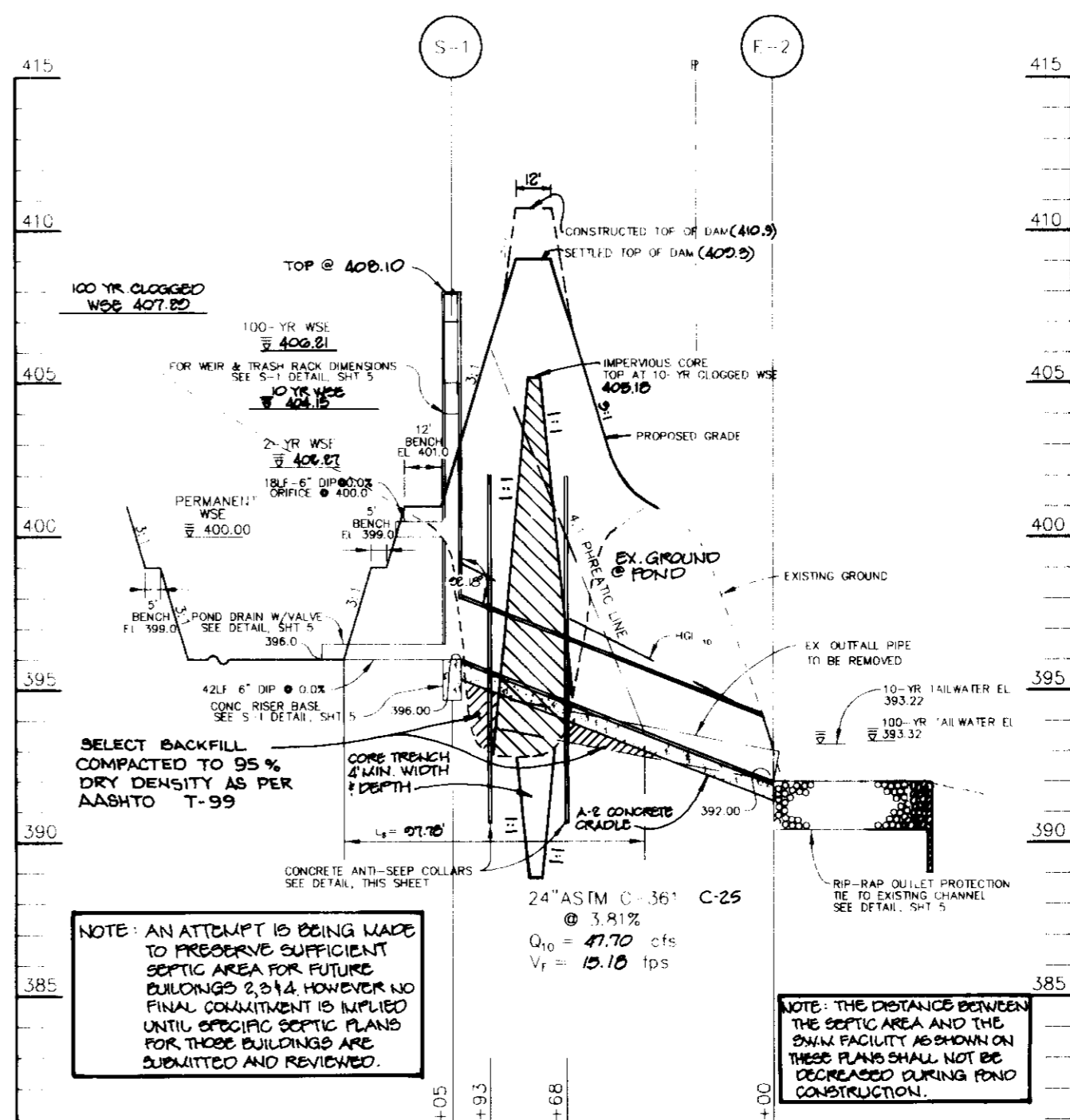
**CORE TRENCH DETAIL**



**STORM DRAIN STRUCTURE SCHEDULE**

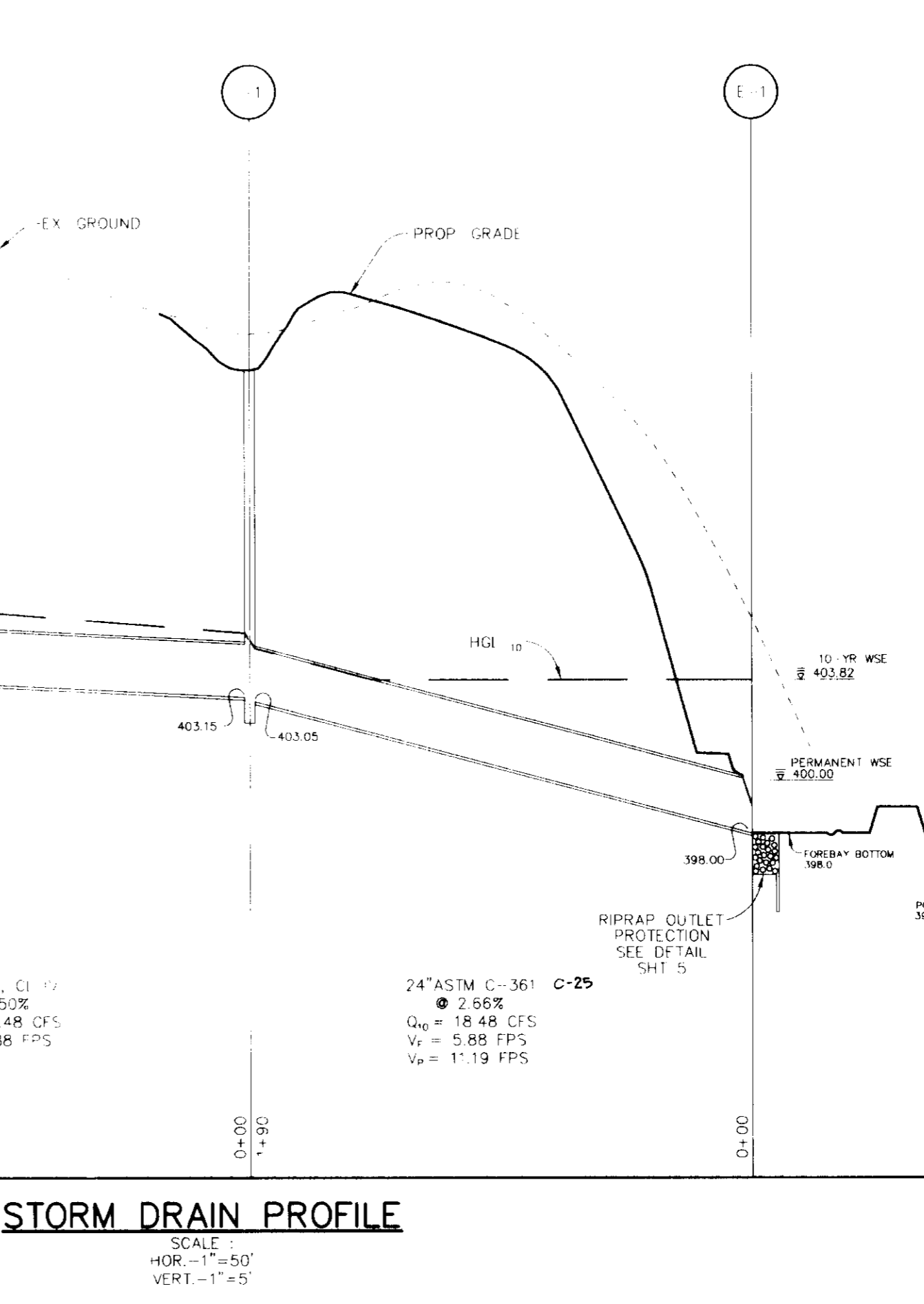
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP. KLLY	REMARKS
1	3	SEE PLAN	403.15	403.05	415.5	HOCO STD. DETAIL SD 4-22
1	3	SEE PLAN	403.27	404.11	413.5	HOCO STD. DETAIL SD 4-22
1	3	SEE PLAN	404.20 (G)	404.70	409.0	HOCO STD. DETAIL SD 4-22
1	24\"/>					

\*SEE NOTE #1 ON SHEET 217



**PRINCIPAL SPILLWAY PROFILE**

SCALE: HOR. 1"=50' VERT. 1"=5'



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

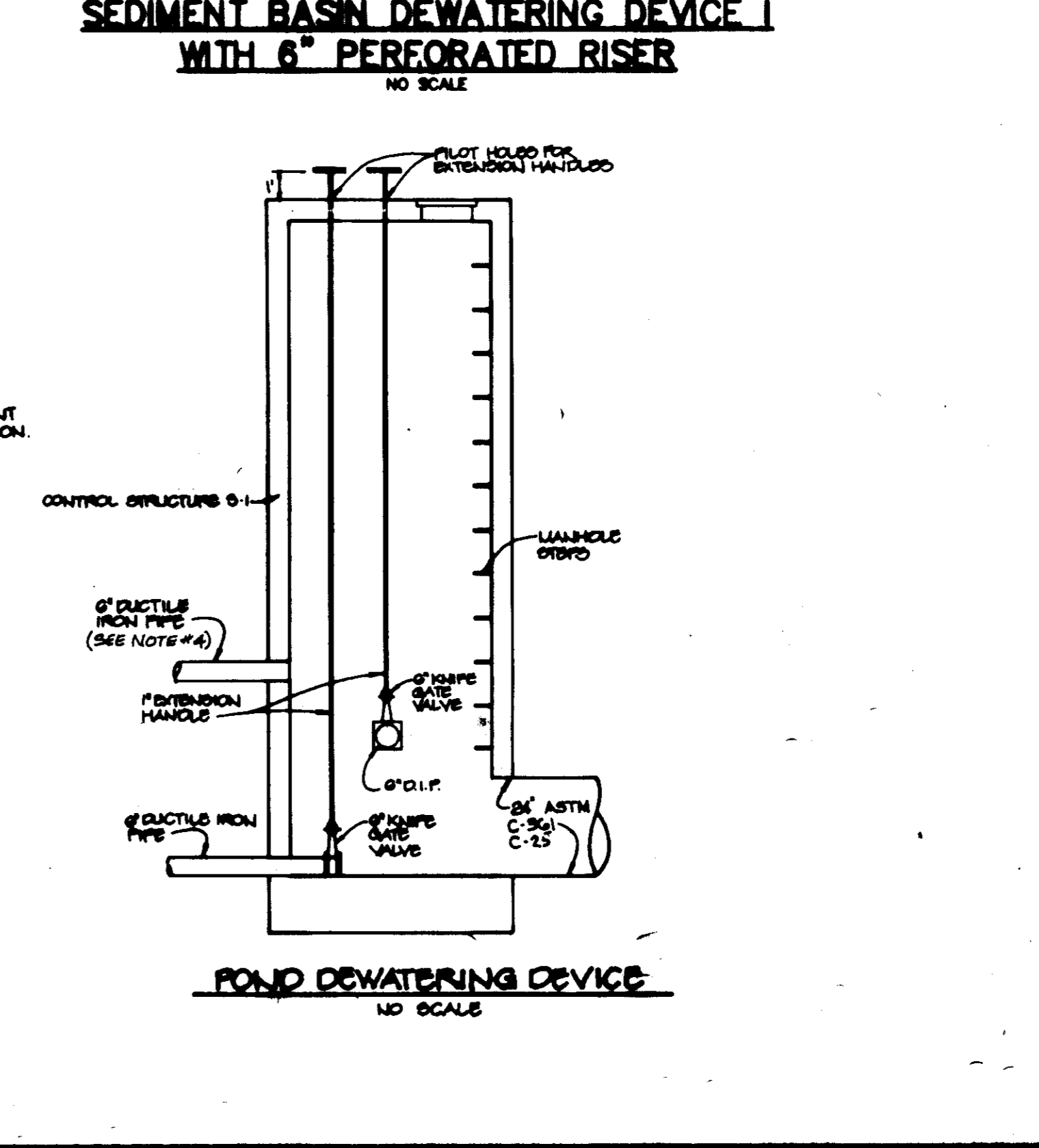
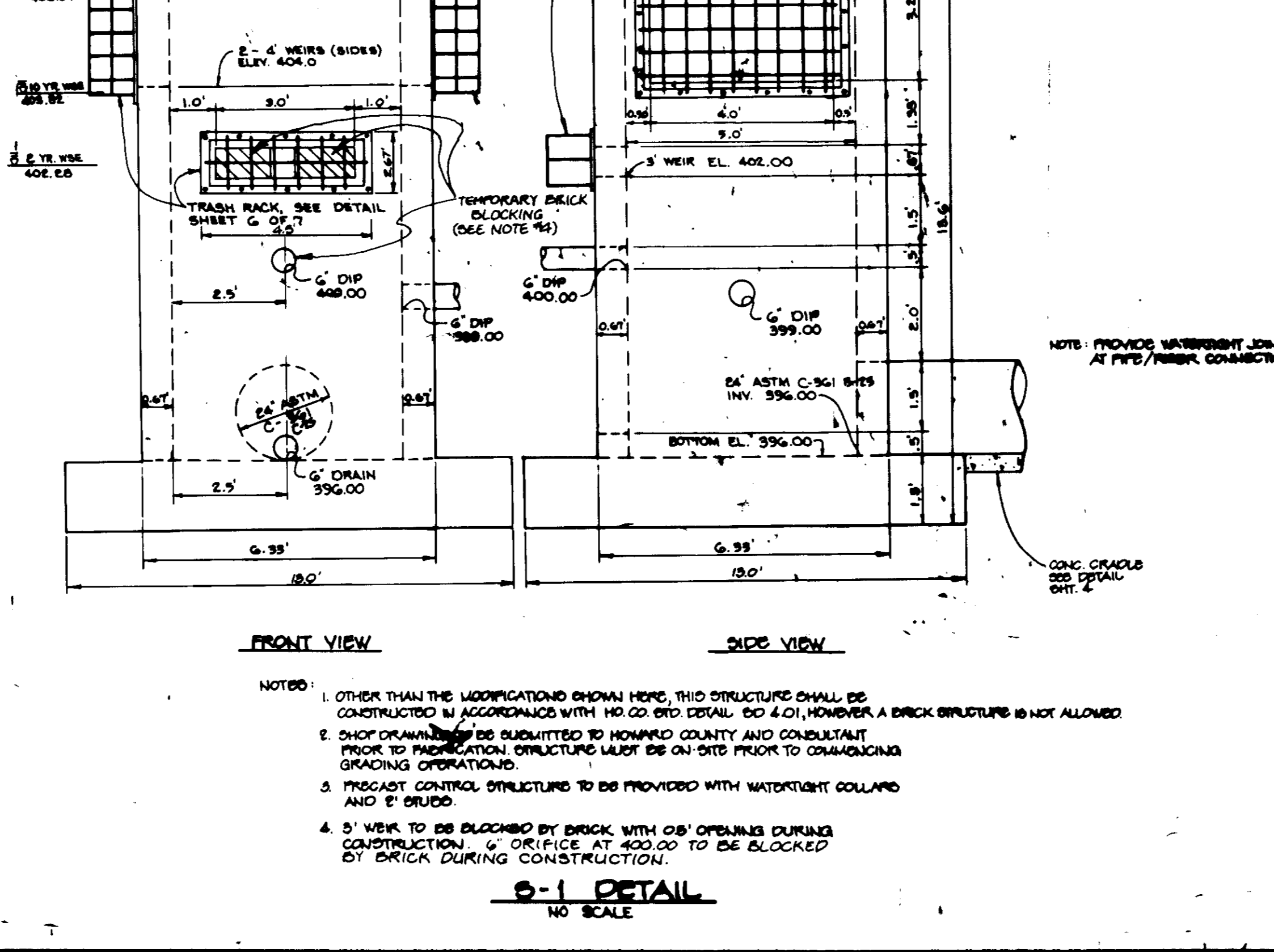
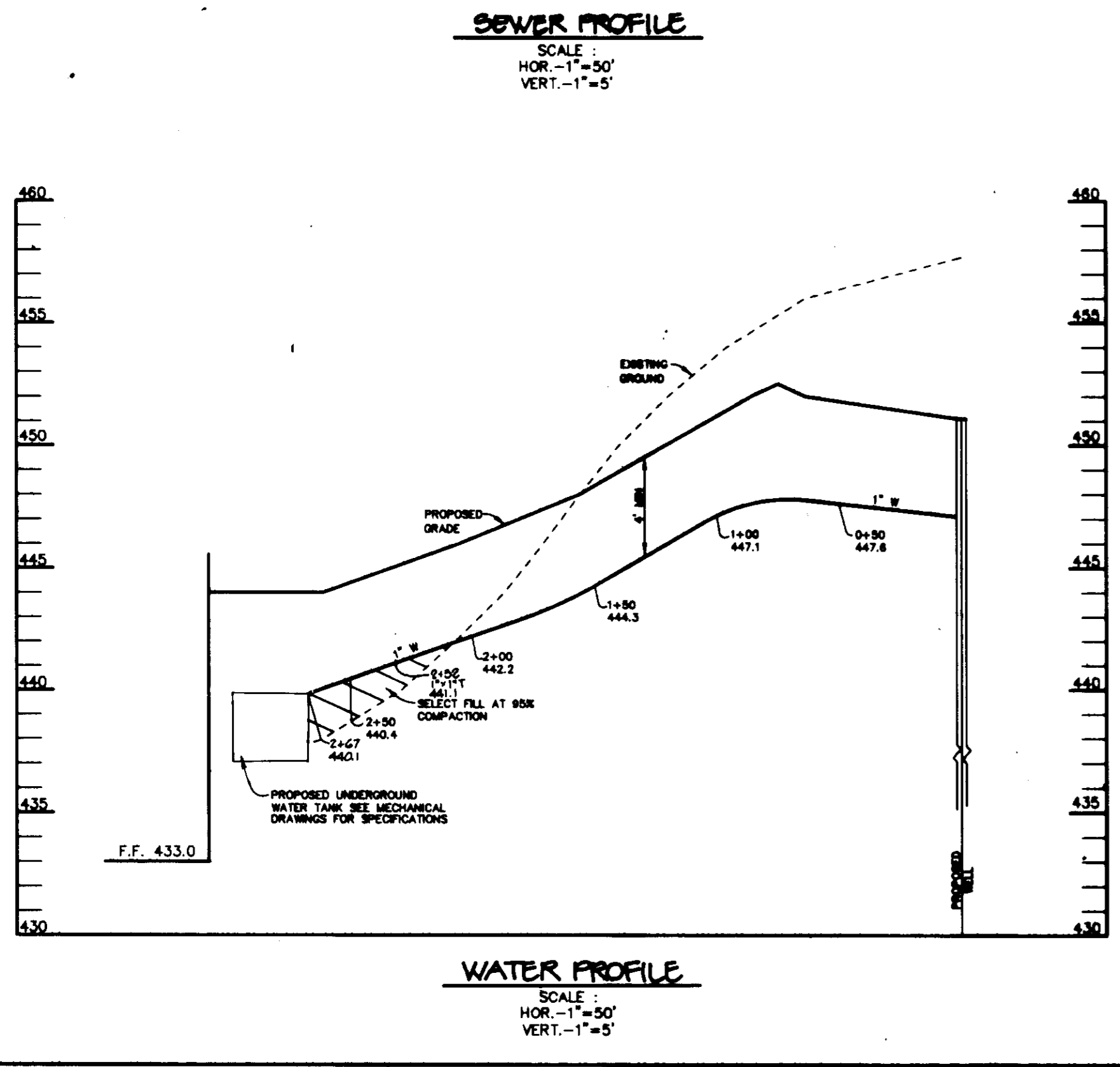
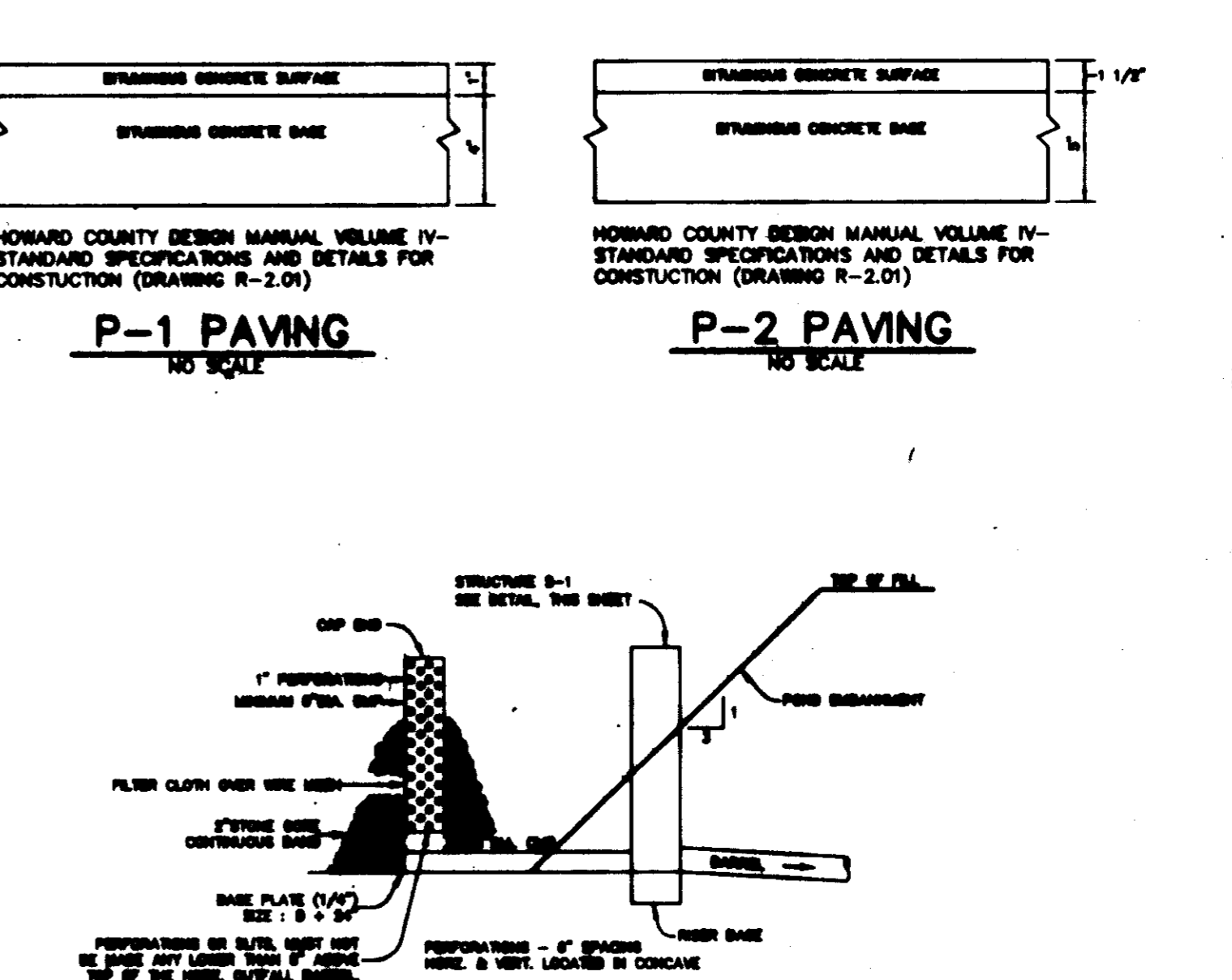
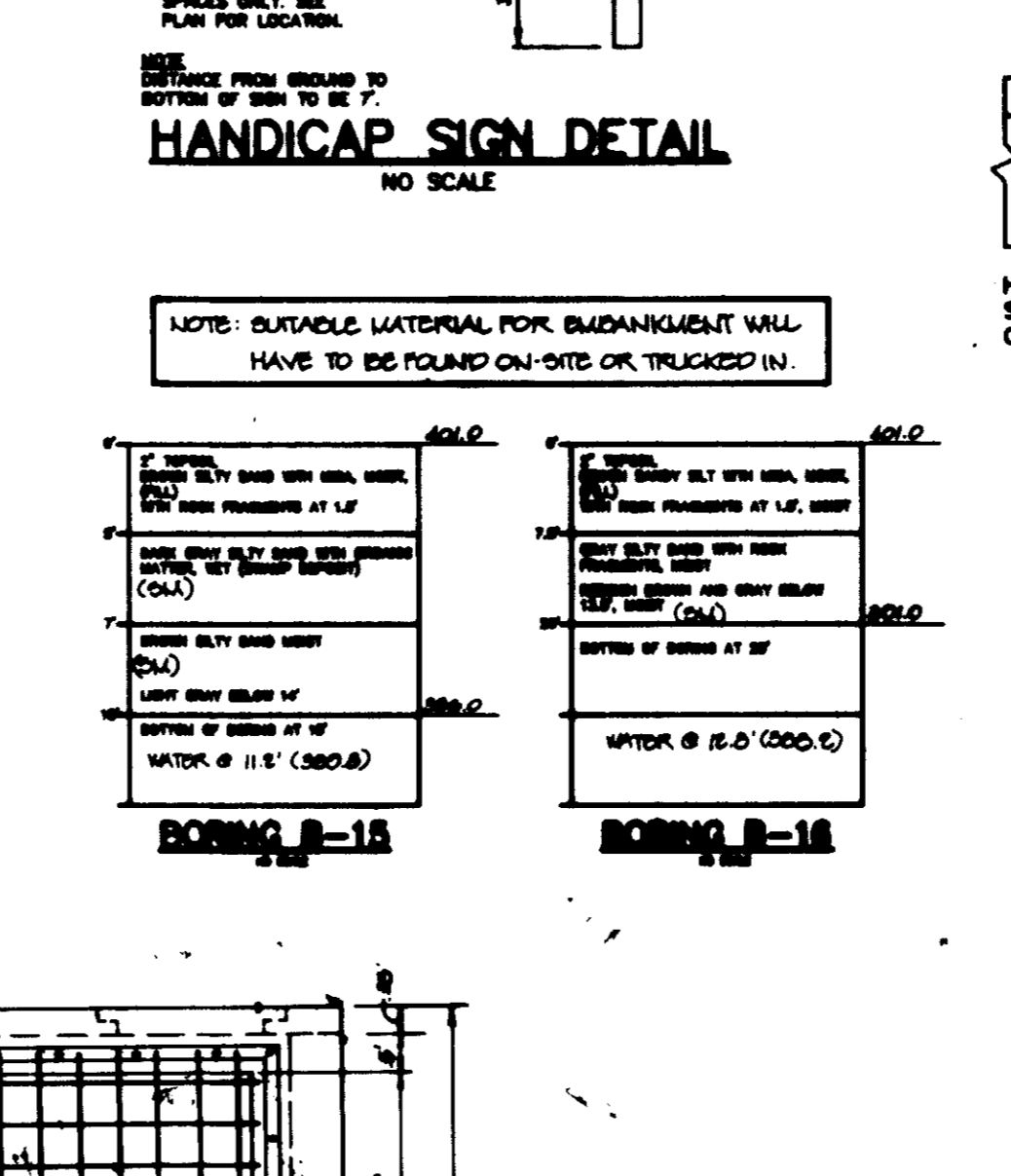
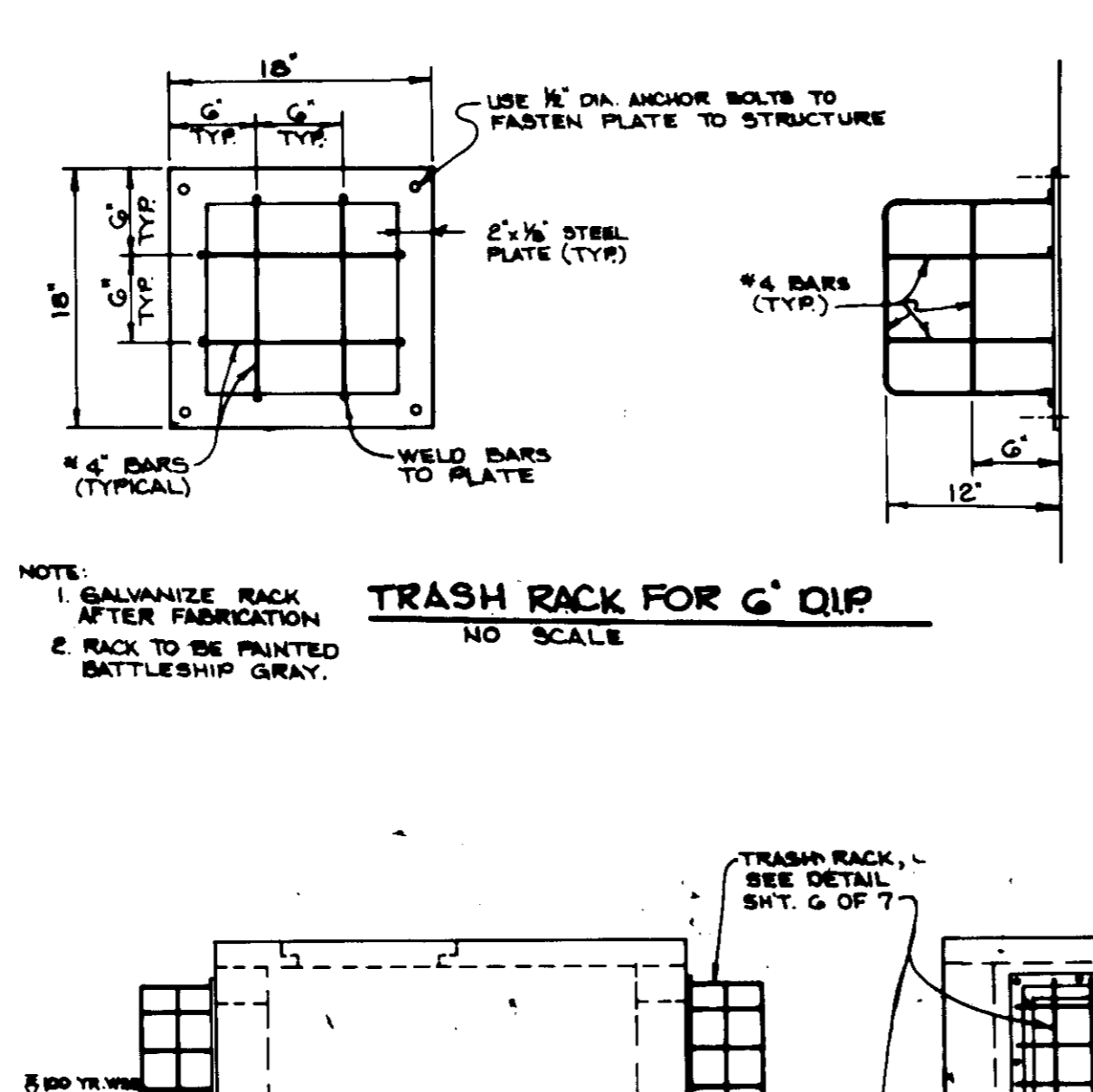
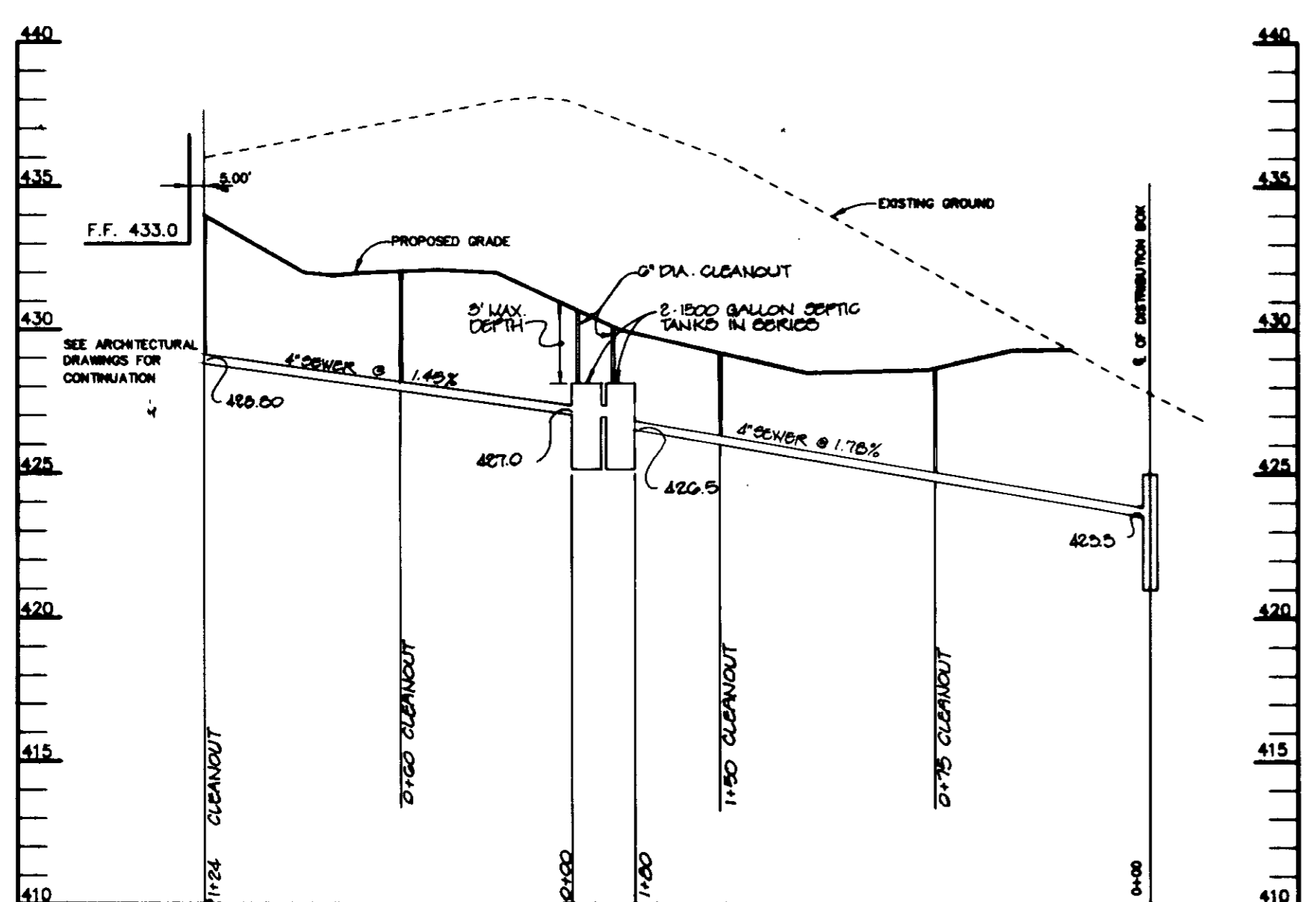
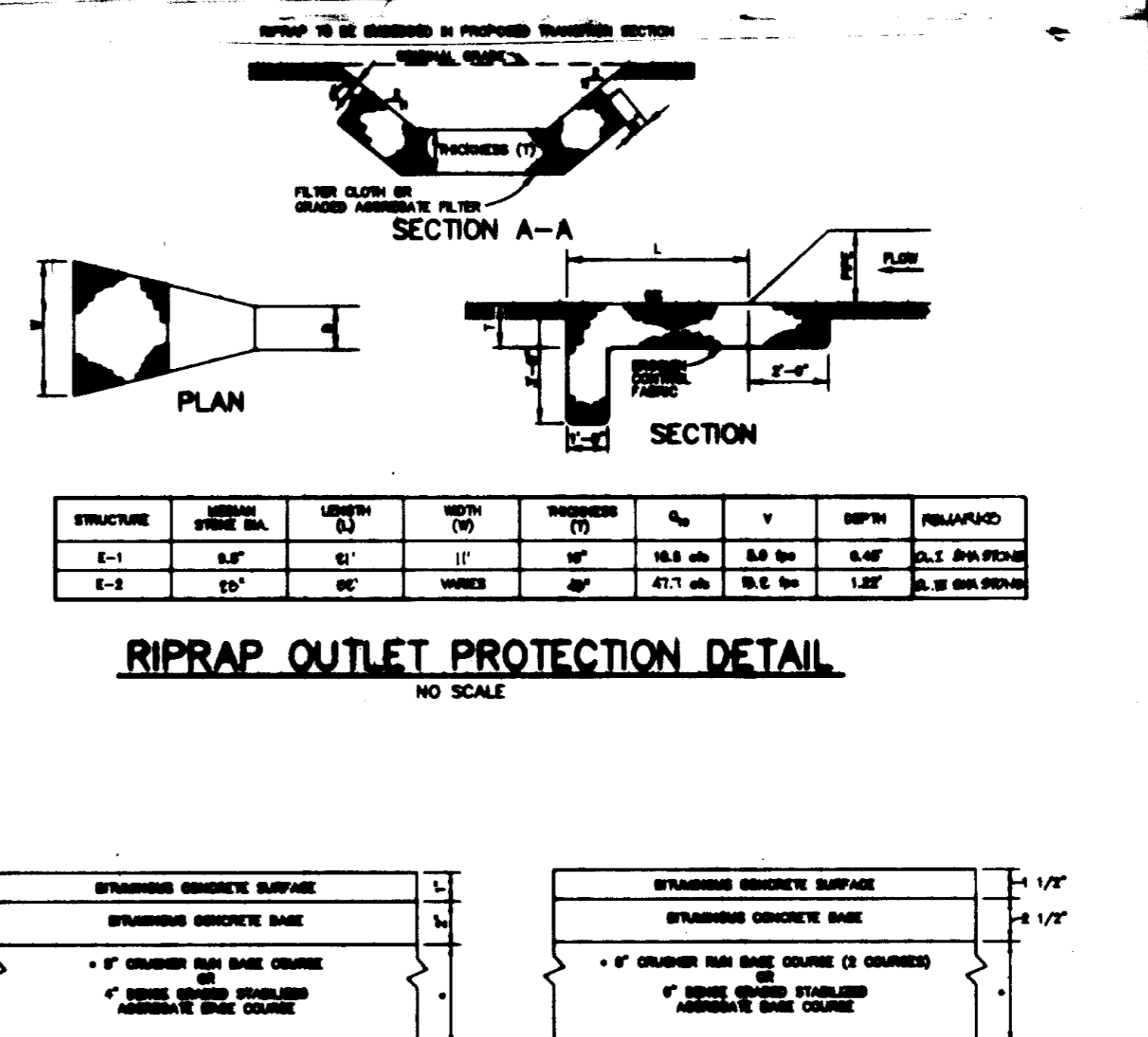
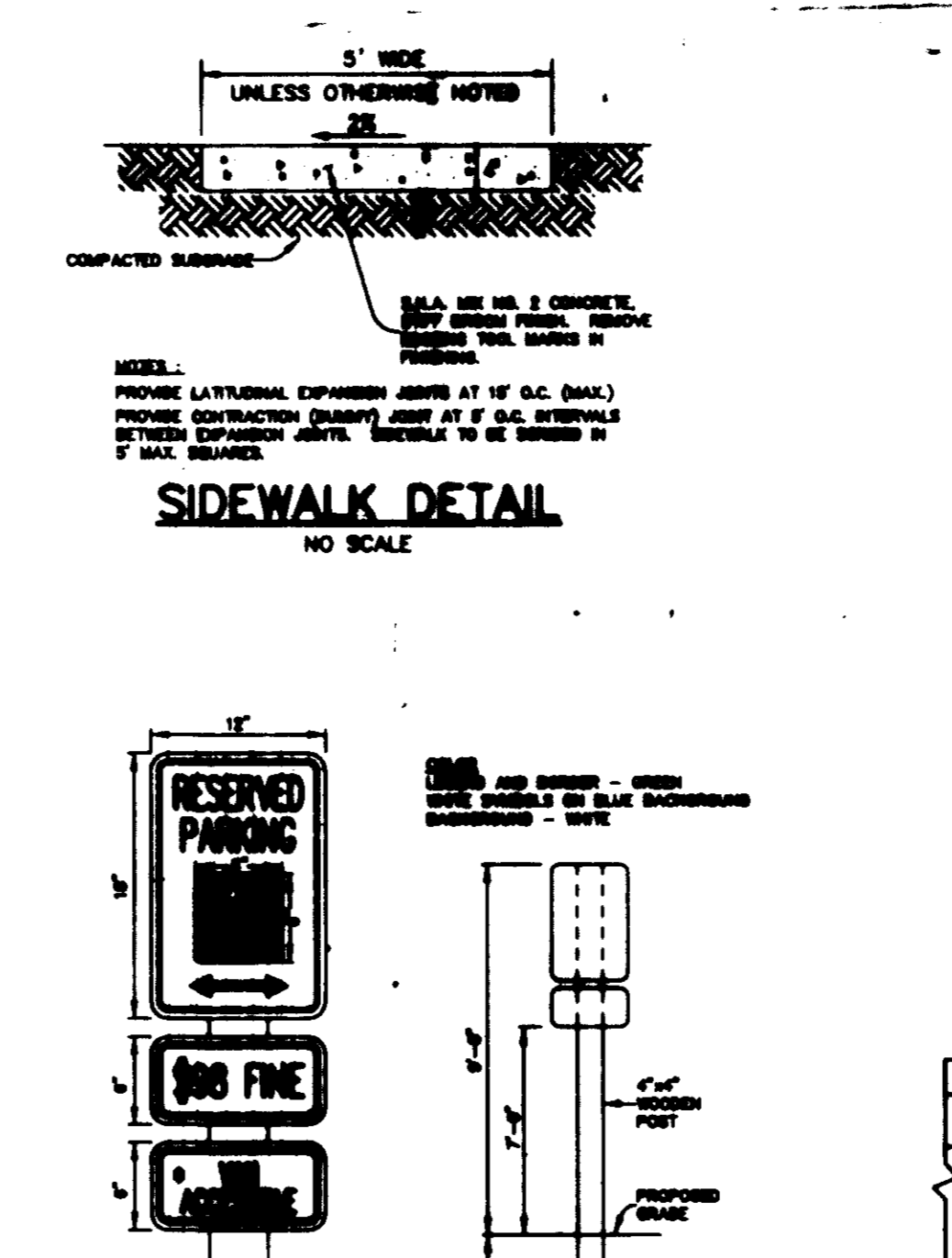
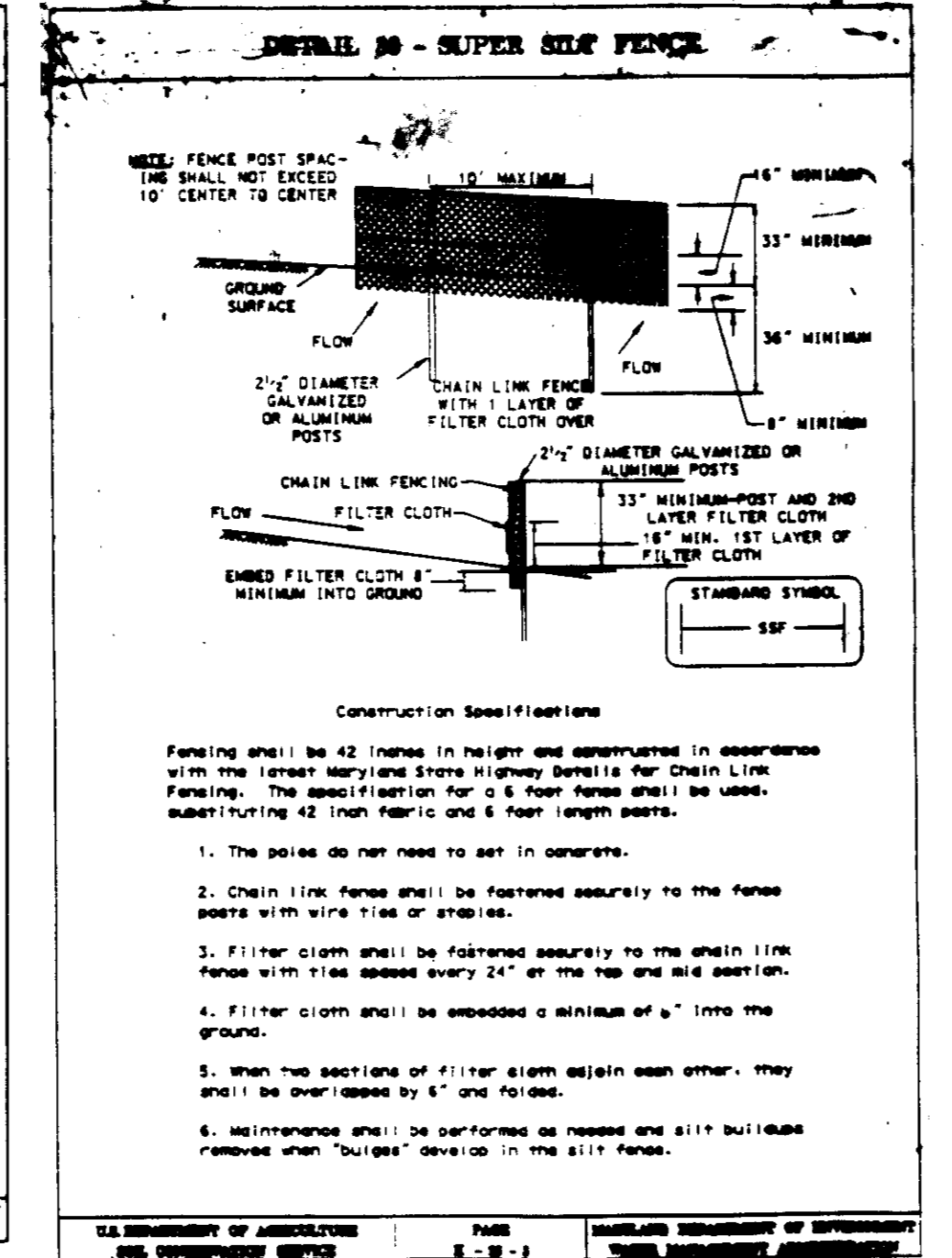
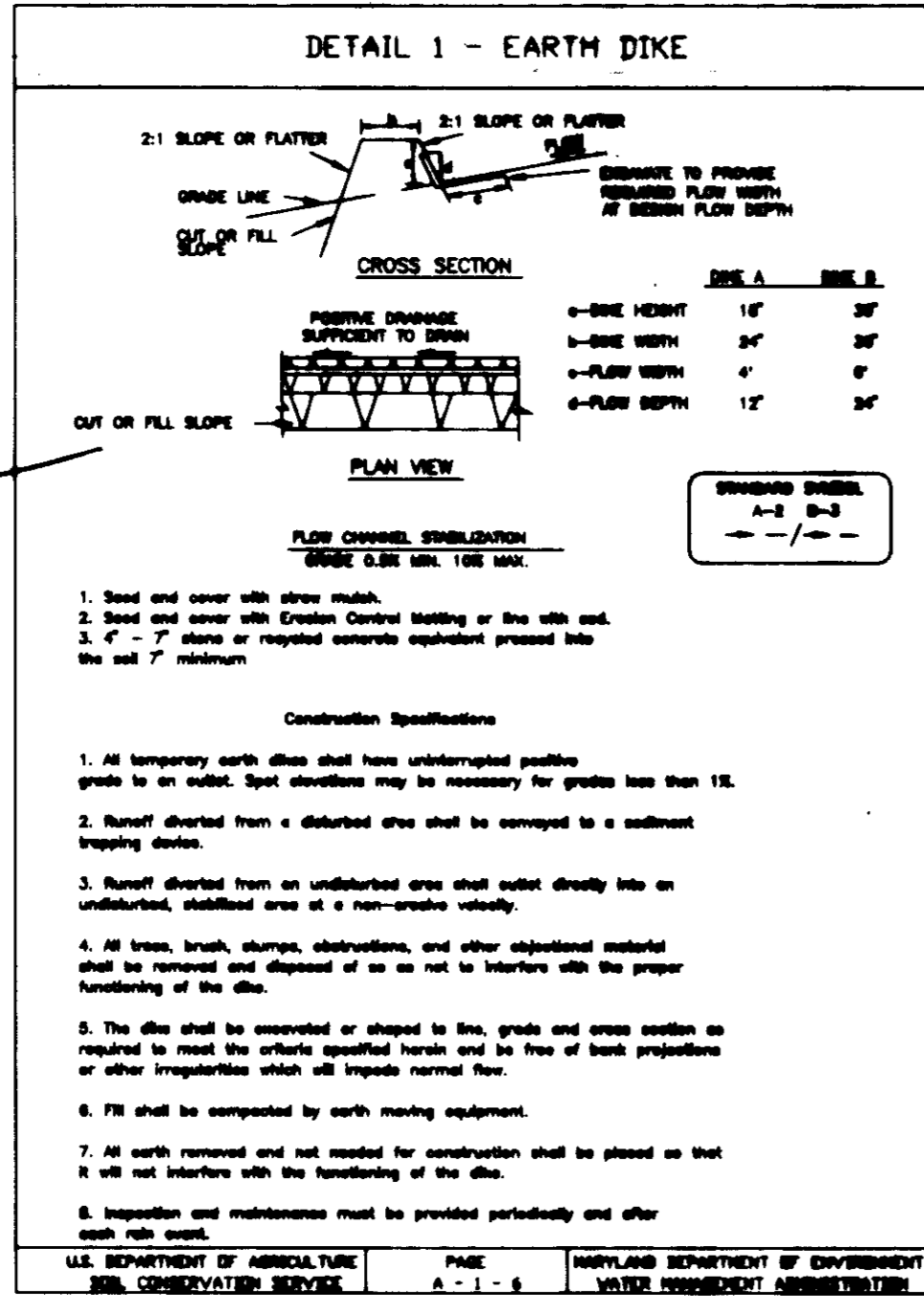
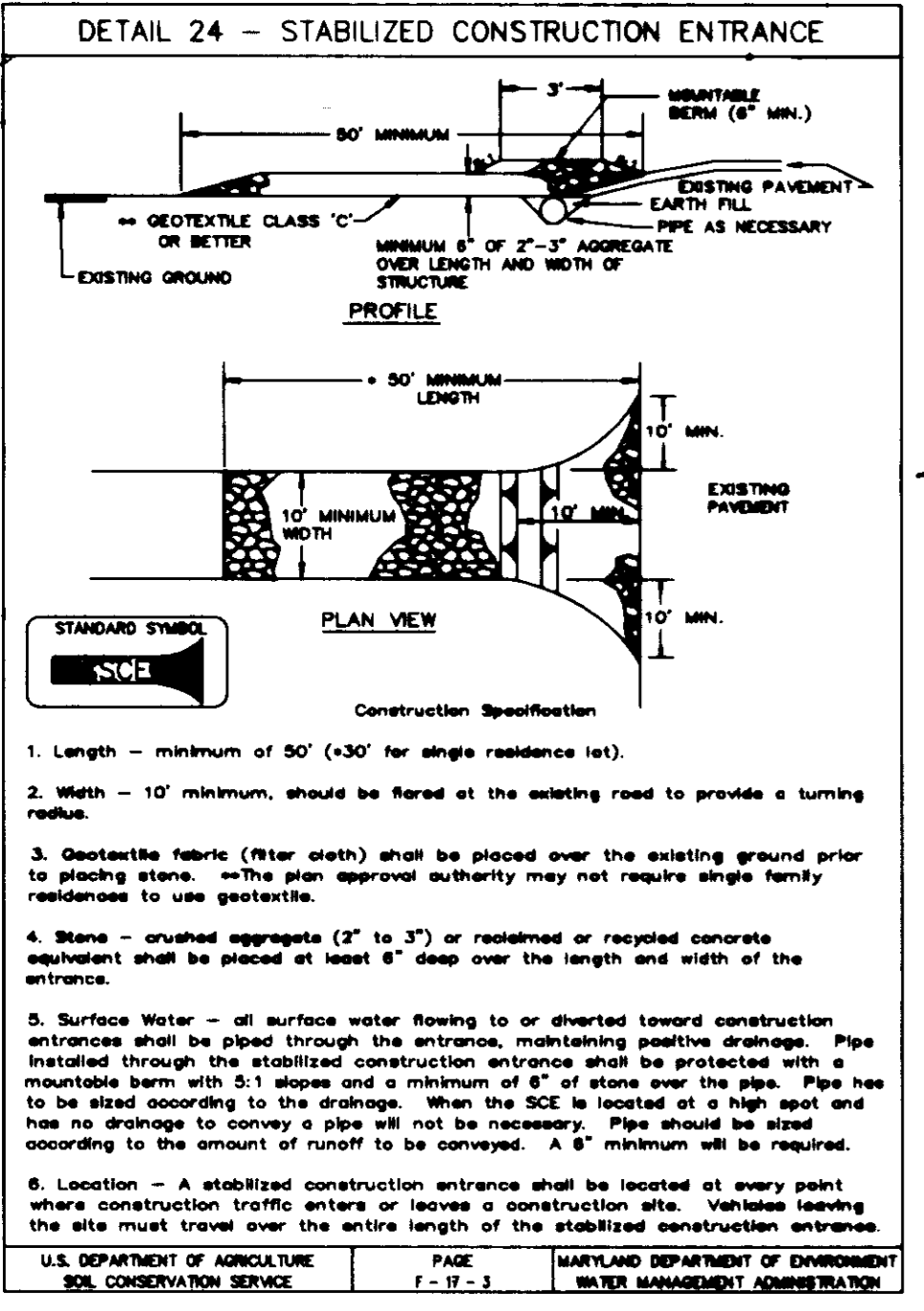
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.  
 HOWARD COUNTY HEALTH OFFICER: *[Signature]* DATE: 9-30-96  
 BY THE DEVELOPER: *[Signature]* DATE:   
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DEVELOPER: *[Signature]* DATE:   
 BY THE ENGINEER: *[Signature]* DATE: 8/27/96  
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.  
 ENGINEER: *[Signature]* DATE: 8/27/96  
 THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
 NATURAL RESOURCES CONSERVATION SERVICE: *[Signature]* DATE: 9/10/96  
 THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 HOWARD SOIL CONSERVATION DISTRICT: *[Signature]* DATE: 9/10/96  
 AS BUILT CERTIFICATE

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.  
 HOWARD COUNTY HEALTH OFFICER: *[Signature]* DATE: 9/10/96  
 BY THE DEVELOPER: *[Signature]* DATE: 9/10/96  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DEVELOPER: *[Signature]* DATE: 9/10/96  
 BY THE ENGINEER: *[Signature]* DATE: 9/10/96  
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.  
 ENGINEER: *[Signature]* DATE: 9/10/96  
 THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
 NATURAL RESOURCES CONSERVATION SERVICE: *[Signature]* DATE: 9/10/96  
 THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 HOWARD SOIL CONSERVATION DISTRICT: *[Signature]* DATE: 9/10/96  
 AS BUILT CERTIFICATE

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.  
 HOWARD COUNTY HEALTH OFFICER: *[Signature]* DATE: 9/12/96  
 BY THE DEVELOPER: *[Signature]* DATE: 10/9/96  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

Howard County Health Officer: *J. Farrell* 9-30-96

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Developer: *Rev. Dennis P. Palko* 8/27/96

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Engineer: *J. Farrell* 8/27/96

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Natural Resources Conservation Service: *D.C. Wolford* 9/10/96

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Howard Soil Conservation District: *J. Farrell* 9/10/96

AS BUILT CERTIFICATE

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Chief, Development Engineering Division: *Richard Blood* 9/12/96

Chief, Division of Land Development and Research: *Richard Blood* 10/1/96

Director: *James J. Butler* 10/14/96

OWNER/DEVELOPER

ARCHDIOCESE OF BALTIMORE  
ST. FRANCIS OF ASSISI CHURCH  
11445 SCAGGSVILLE RD.  
FULTON, MD 20759  
(410) 792-0470

PROJECT

ST. FRANCIS OF ASSISI MISSION  
PHASE 1  
WORSHIP AND PARISH CENTER

AREA

TAX MAP 46 PARCEL 337 LOT 1  
5th ELECTION DISTRICT ZONED RR-DEO  
HOWARD COUNTY, MARYLAND

TITLE

PROFILES, NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.  
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21046  
410-997-8900 FAX: 410-997-9282

DATE: 8/27/96

DESIGNED BY: CJR

DRAWN BY: RPP

PROJECT NO: HOC098402 SDP5.DWG

DATE: AUGUST 28, 1996

SCALE: AS SHOWN

DRAWING NO. 5 OF 7

J. Farrell  
JAYKANT D. PAREKH #19148

21.0 STANDARD AND SPECIFICATIONS

FOR

TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- I. This practice is limited to areas having 2:1 or flatter slopes where:
  - a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - c. The original soil to be vegetated contains material toxic to plant growth.
  - d. The soil is so acidic that treatment with limestone is not feasible.

Construction and Material Specifications

- I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- II. Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, mosses, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
  - ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
  - iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre per 1,000 square feet prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

III. For sites having disturbed areas under 5 acres:

- i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- II. For sites having disturbed areas over 5 acres:
  - i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
    - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
    - c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
    - d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist approved by the appropriate approval authority, may be used in lieu of natural topsoil.

ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

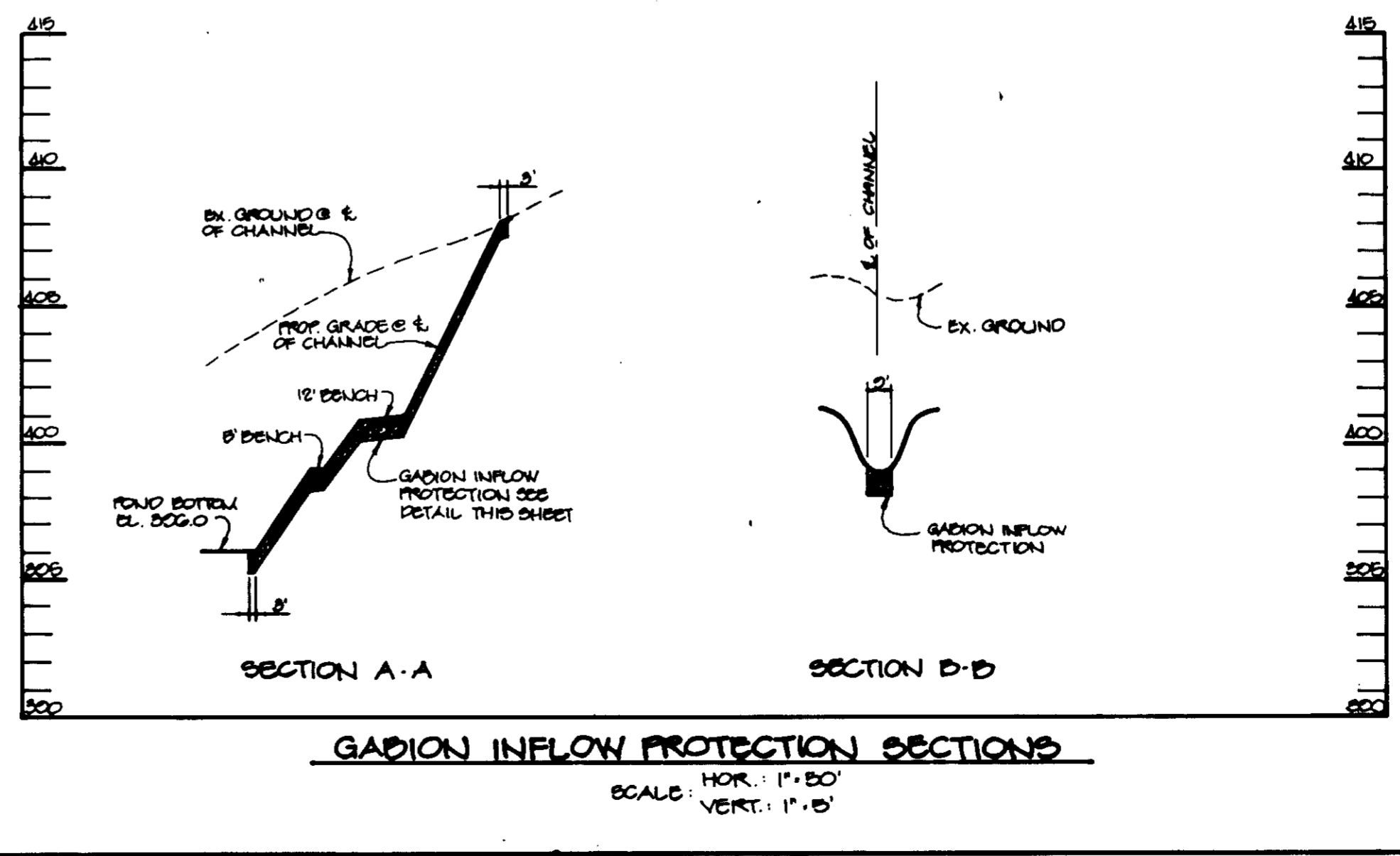
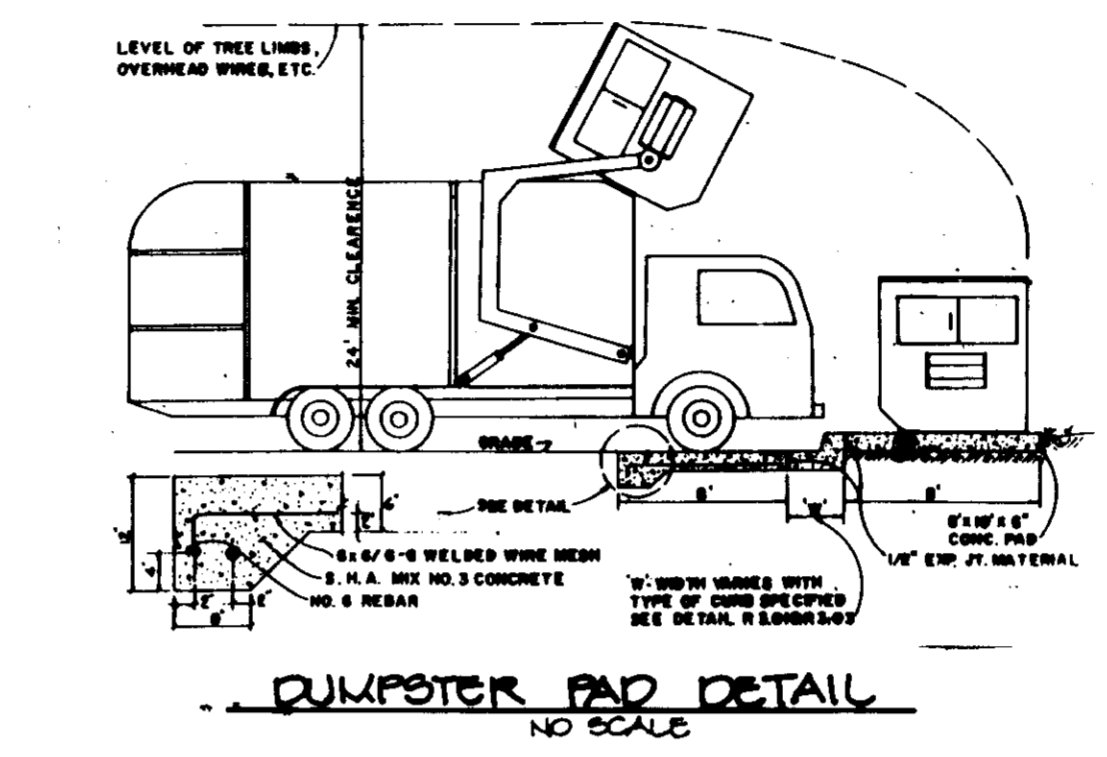
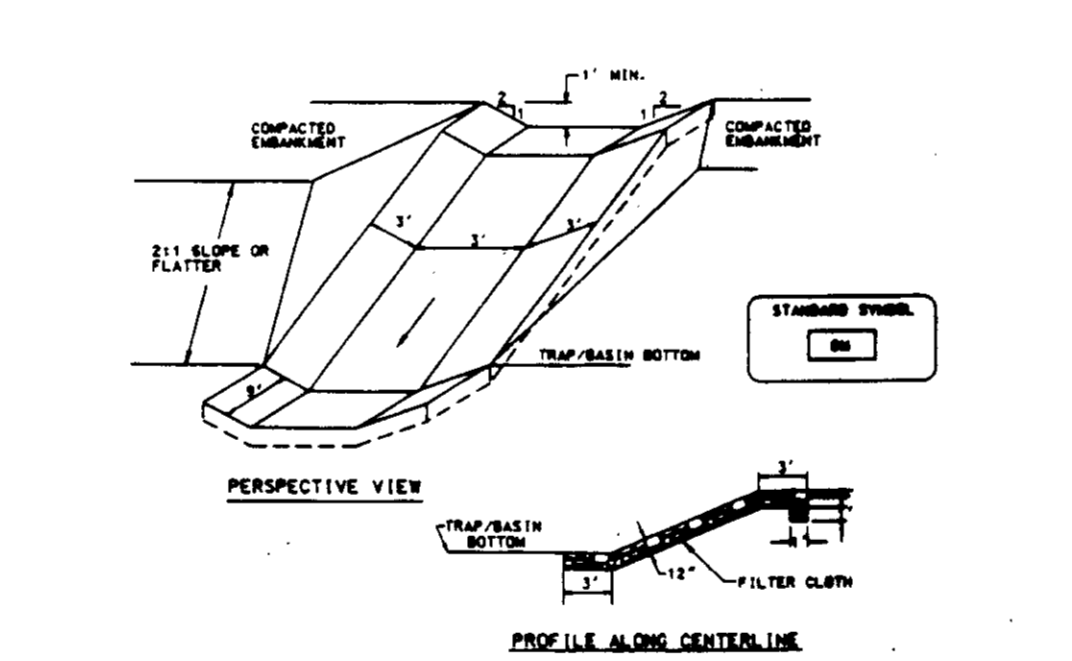
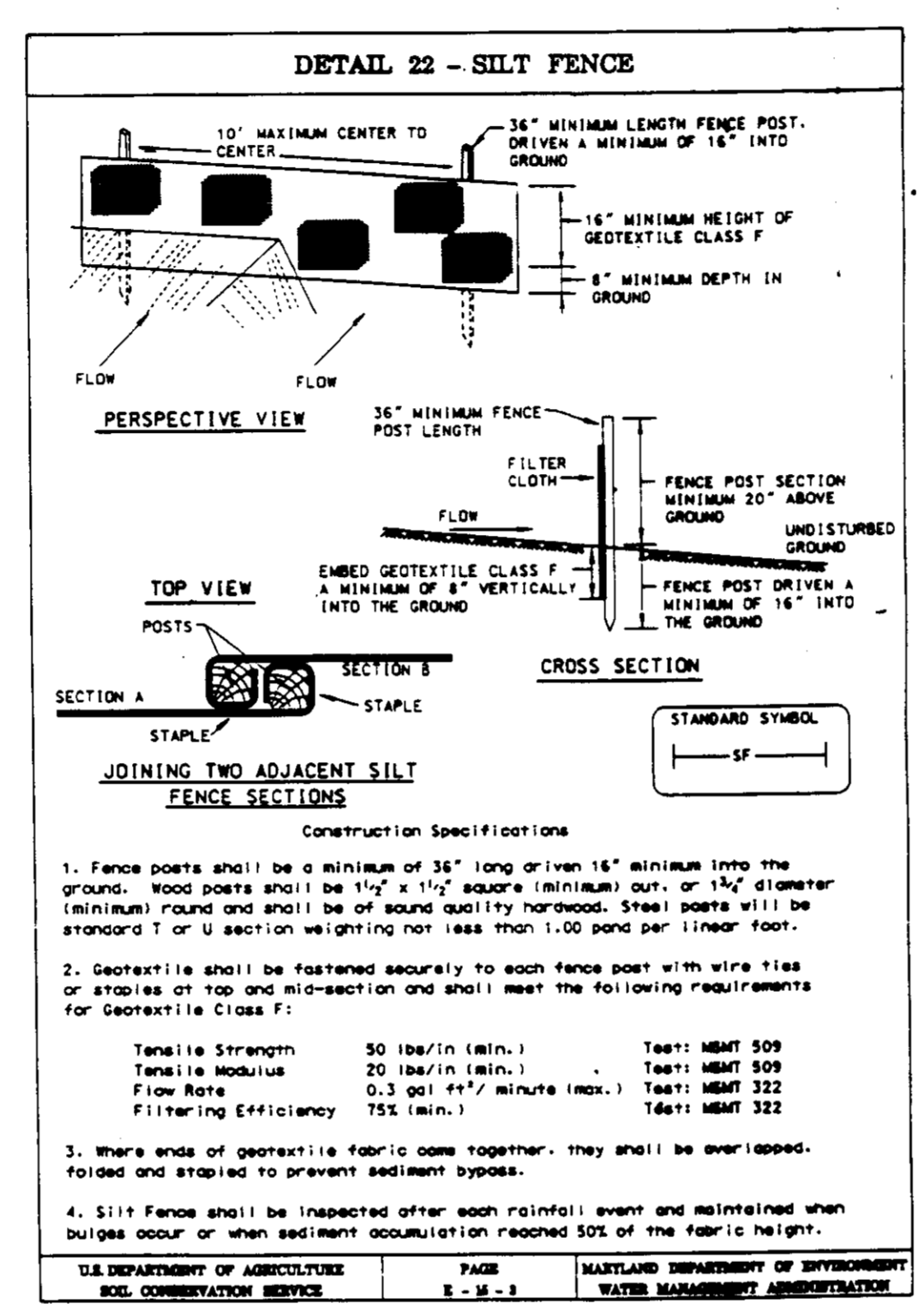
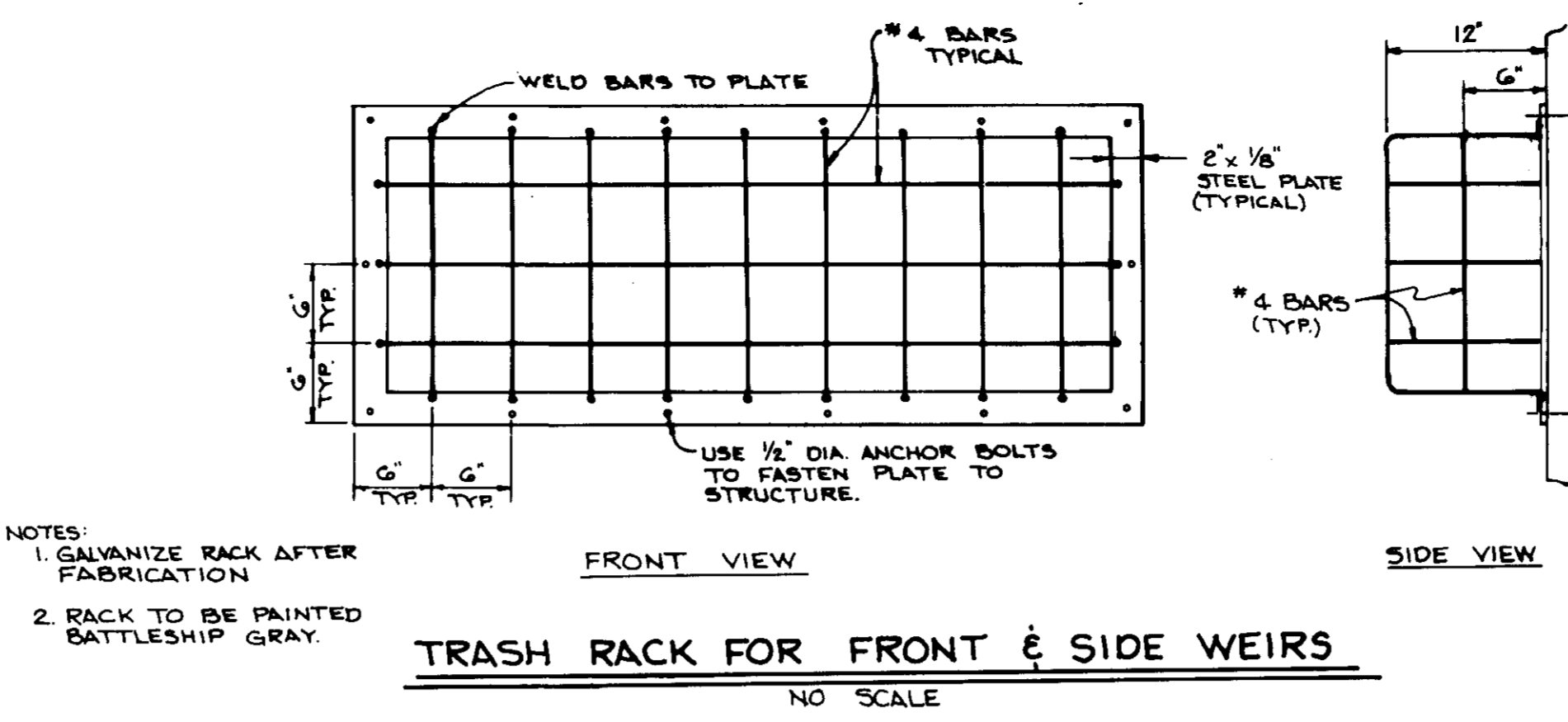
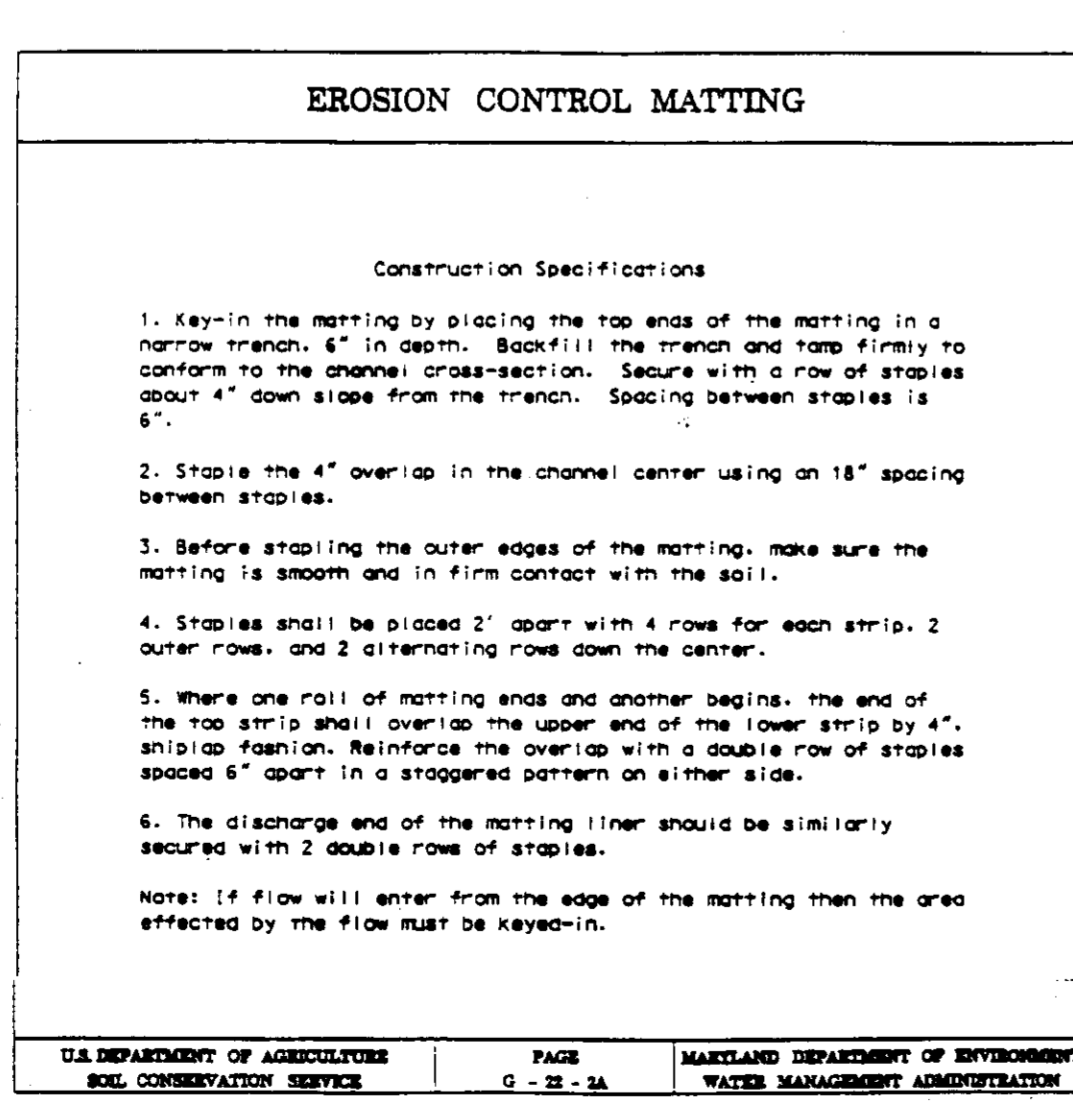
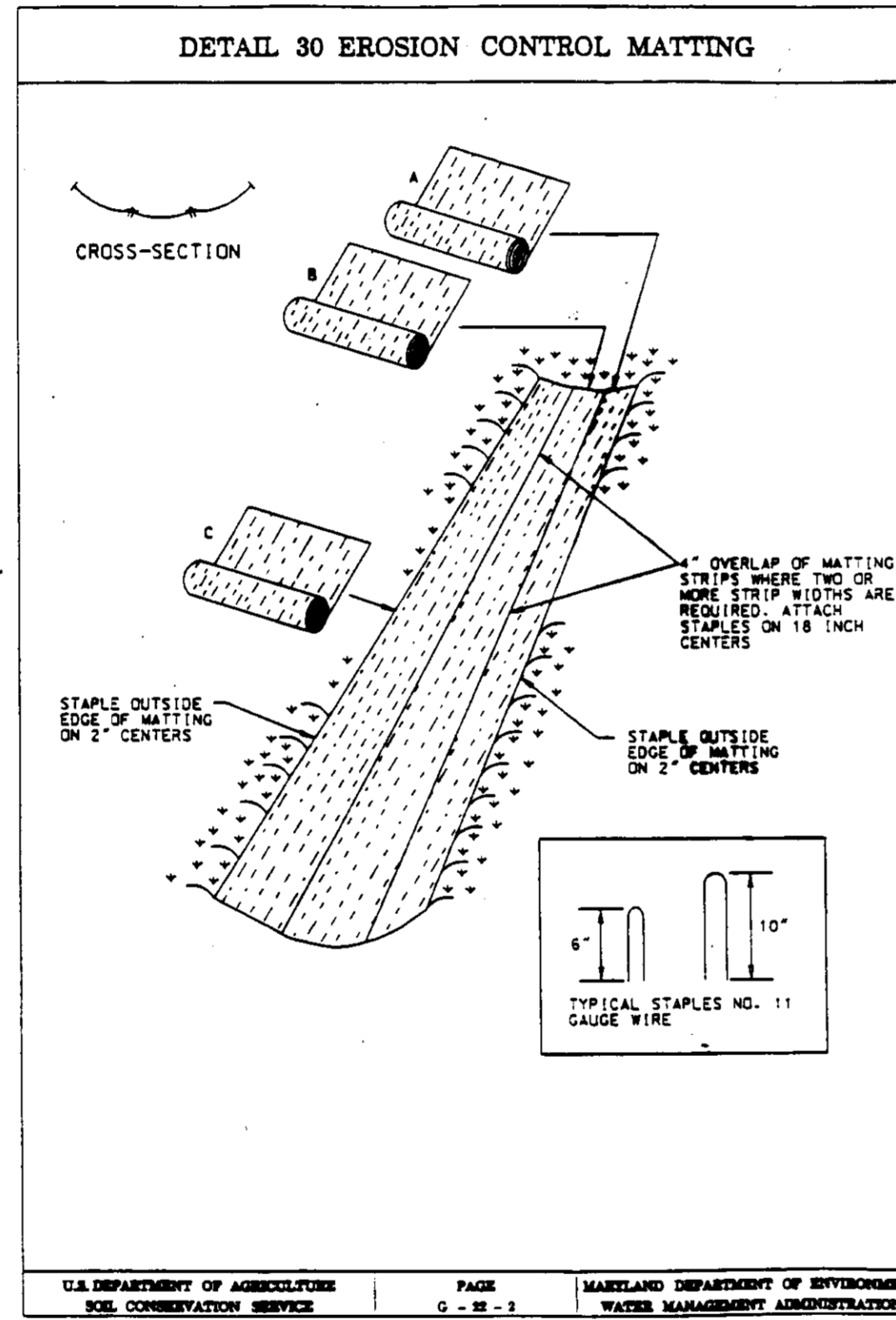
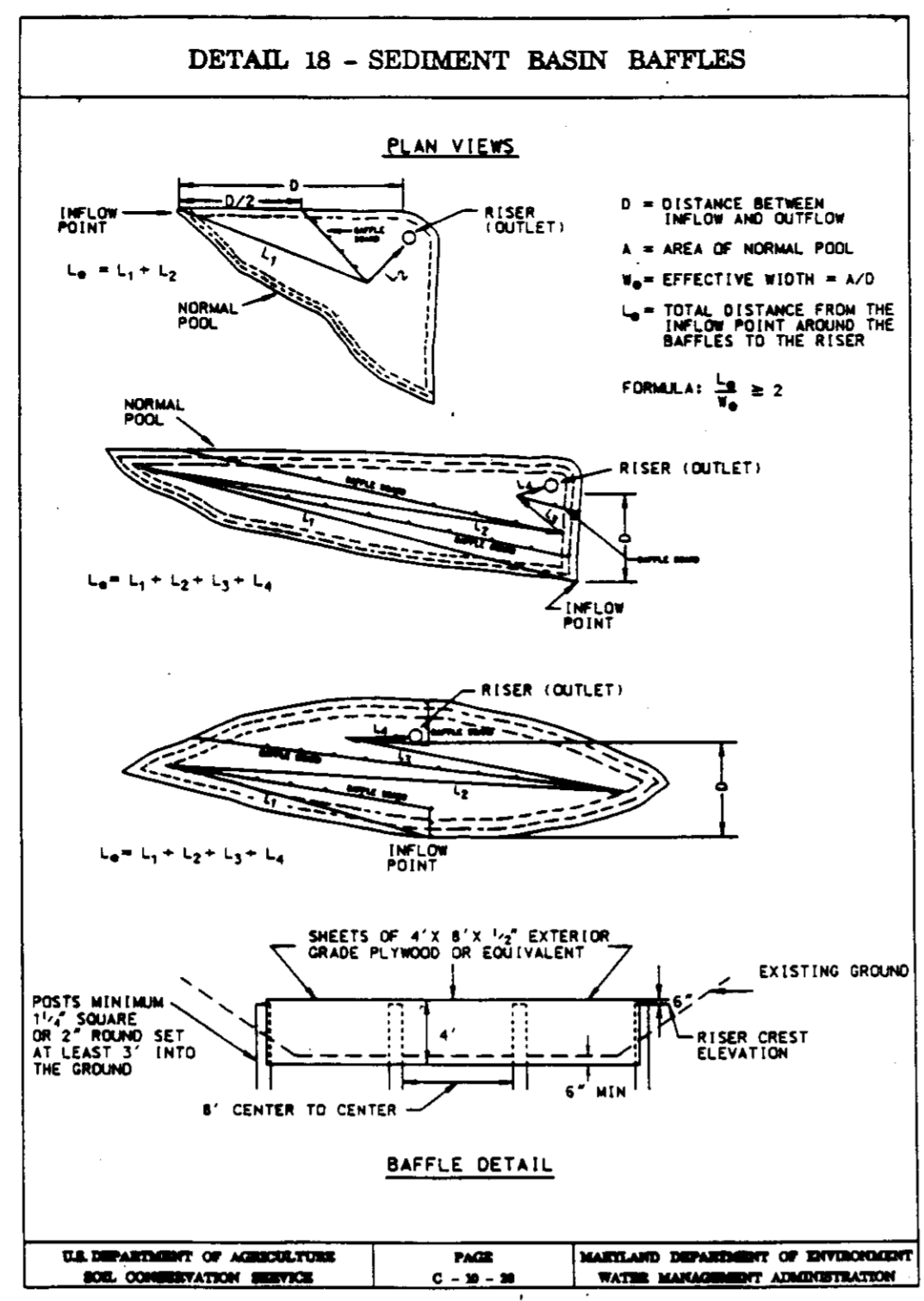
V. Topsoil Application

- i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, where the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

VI. Alternative for Permanent Sodding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

- i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
  - a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
  - b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
  - c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- iv. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institute. Revised 1973.



APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

*Jaykant D. Parekh* 9-30-96  
 HOWARD COUNTY HEALTH OFFICER DATE

BY THE DEVELOPER:  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Pamela Ann P. P. P.* 8/27/96  
 DEVELOPER DATE

BY THE ENGINEER:  
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*J. Farrell* 8/27/96  
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*J.G. Lynch/CS* 9/19/96  
 NATURAL RESOURCES/CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John D. Smith* 9/19/96  
 HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Richard Blood* 9/12/96  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Richard Blood* 10/4/96  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

*James J. Smith* 10/4/96  
 DIRECTOR DATE

DATE	NO.	REVISION

OWNER/DEVELOPER  
 ARCHDIOCESE OF BALTIMORE  
 ST. FRANCIS OF ASSISI CHURCH  
 11445 SCAGGSVILLE RD.  
 FULTON, MD 20759  
 (410) 792-0470

PROJECT  
 ST. FRANCIS OF ASSISI MISSION  
 PHASE 1  
 WORSHIP AND PARISH CENTER

AREA  
 PARCEL 337  
 TAX MAP 46 ZONED RR-DEO  
 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE  
 NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.  
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
 8818 Centre Park Drive • Suite 200 • Columbia, MD 21048  
 410-997-8900 FAX: 410-997-9282

8/27/96  
 DATE

DESIGNED BY: CJR  
 DRAWN BY:  
 PROJECT NO: HOCO\98402  
 DATE: AUGUST 29, 1996  
 SCALE: AS SHOWN  
 DRAWING NO. 6 OF 7

*J. Farrell*  
 JAYKANT D. PAREKH #19148

