

CERTIFICATE OF INTENT

I/We Certify that within 36 months after the Grading Permit for this plan is issued, the Temporary Stormwater Management provided under this plan shall be replaced with the installation of Permanent Stormwater Management, and that any Sediment Basins or Traps will be removed or reconstructed in accordance with the requirements of the Howard Soil Conservation District.

Signature of Developer _____ Date _____

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
G-1	0700 BUSINESS PARKWAY
H	0000 BUSINESS PARKWAY

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER _____ DATE 5/2/96

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER *J. Saurth* DATE 5/2/96

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

J.G. Winfield/As. DATE 5/14/96
NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Gary Selby DATE 5/14/96
HOWARD SOIL CONSERVATION DISTRICT

SEQUENCE OF CONSTRUCTION

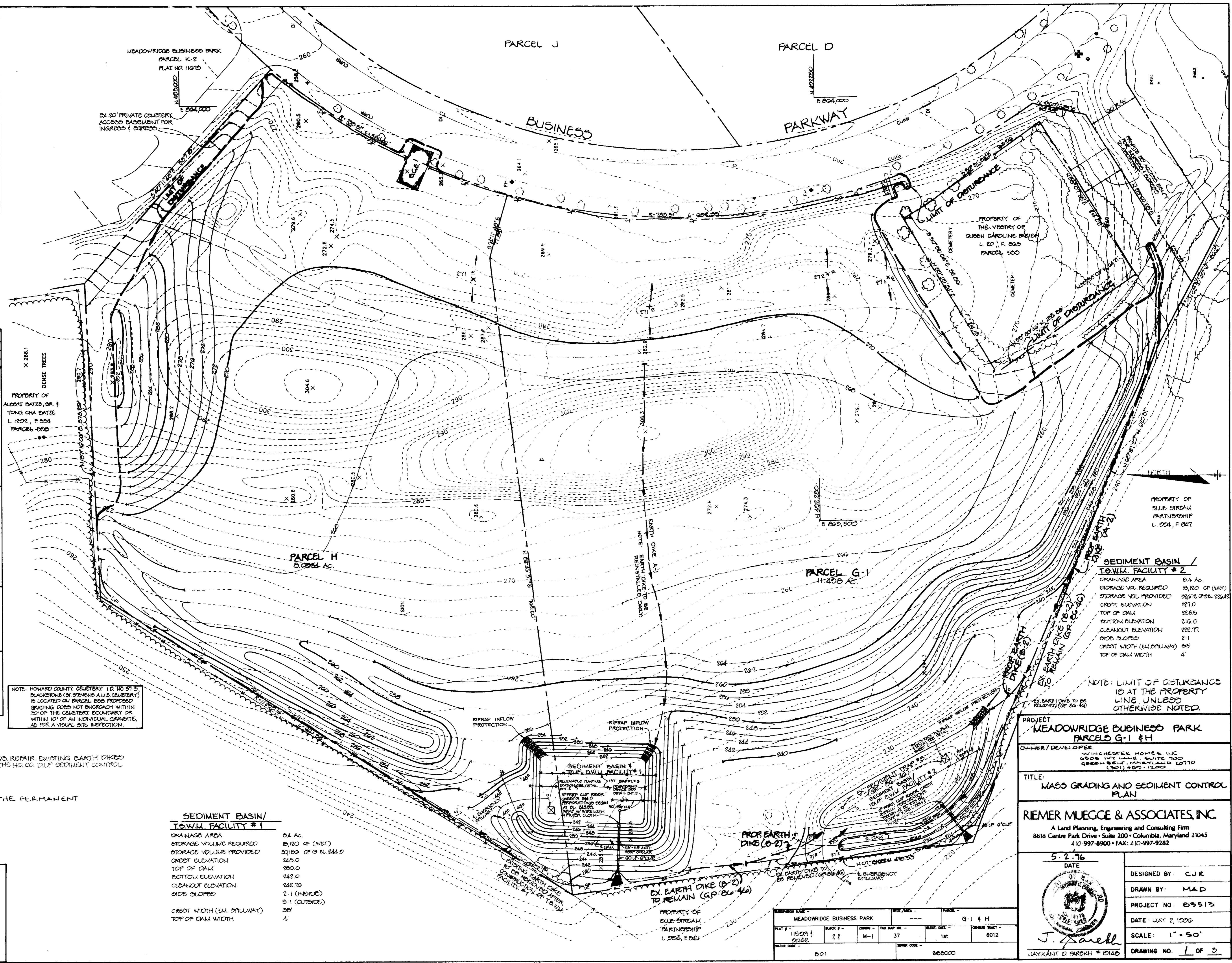
- OBTAIN A GRADING PERMIT
- INSTALL SEE SILT FENCE & SEDIMENT BASINS. REPAIR EXISTING EARTH DIKES CONSTRUCTED UNDER GP-86-46 AS NECESSARY FOR THE HD-20 DUMP SEDIMENT CONTROL INSPECTOR (3 DAYS)
- MASS GRADE SITE (3 WEEKS)
- STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (2 DAYS)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Michael... DATE 5/16/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Anna... DATE 5/17/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Joseph... DATE 5/20/96
DIRECTOR



NOTE: HOWARD COUNTY CEMETERY I.D. NO. 57-5 BLACKSTONE (OR STEVENSON A.W.D. CEMETERY) IS LOCATED ON PARCELS 800. PROPOSED GRADING DOES NOT ENCROACH WITHIN 30' OF THE CEMETERY BOUNDARY OR WITHIN 10' OF AN INDIVIDUAL GRAVE, AS PER A VISUAL SITE INSPECTION.

SEDIMENT BASIN / TOWN FACILITY #1	
DRAINAGE AREA	0.4 AC.
STORAGE VOLUME REQUIRED	15,120 CF (WBT)
STORAGE VOLUME PROVIDED	23,100 CF @ 2.244.0
CREST ELEVATION	240.0
TOP OF DAM	250.0
BOTTOM ELEVATION	242.0
CLEANOUT ELEVATION	242.75
SIDE SLOPES	2:1 (INSIDE) 3:1 (OUTSIDE)
CREST WIDTH (EM. SPILLWAY)	20'
TOP OF DAM WIDTH	4'

SEDIMENT BASIN / TOWN FACILITY #2	
DRAINAGE AREA	0.4 AC.
STORAGE VOL. REQUIRED	15,120 CF (WBT)
STORAGE VOL. PROVIDED	26,970 CF @ 226.42
CREST ELEVATION	227.0
TOP OF DAM	228.5
BOTTOM ELEVATION	219.0
CLEANOUT ELEVATION	222.77
SIDE SLOPES	2:1
CREST WIDTH (EM. SPILLWAY)	20'
TOP OF DAM WIDTH	4'

PROJECT: MEADOWRIDGE BUSINESS PARK PARCELS G-1 & H
OWNER/DEVELOPER: WINCHESTER HOMES, INC. 6908 WYMAN BLVD. SUITE 700 GREEN BELT, MARYLAND 20770 (301) 487-1222
TITLE: MASS GRADING AND SEDIMENT CONTROL PLAN
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045 410-997-8900 • FAX: 410-997-9282

DATE: 5.2.96
DESIGNED BY: CJR
DRAWN BY: MAD
PROJECT NO: 83513
DATE: MAY 8, 2000
SCALE: 1" = 50'
DRAWING NO: 1 OF 3

J. Saurth
JAYKANT D. PAREKH #10148

MEADOWRIDGE BUSINESS PARK		PARCEL - G-1 & H	
PLAT # - 11500 & 20042	BLK # - 22	ZONE - M-1	TAX MAP NO. - 37
OWNER CODE - 001		OWNER CODE - 000000	

TEMPORARY SEEDING NOTES

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

Seeding Preparation: Loosen upper three inches of soil by raking, grading or other acceptable means before seeding. If not previously loosened.

Soil Amendments: Apply 800 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq. ft.).

Seeding: For seedbed March 1 thru April 30 and from August 1 thru November 15, seed with 2-1/2 bushels per acre of annual ryegrass (1.5 lb. per 1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of creeping bermudagrass (0.07 lb. 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 untreated small grain straw immediately after seeding. Another mulch immediately after application unless mulch anchoring tool or 2 lb. 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 (8 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.

Seeding Preparation: Loosen upper three inches of soil by raking, grading or other acceptable means before seeding. If not previously loosened.

Soil Amendments: In lieu of soil test recommendations use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre domestic limestone (92 lbs. per 1000 sq. ft.) and 800 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 30-0-0 ureaform fertilizer (8 lbs. per 1000 sq. ft.).
- 2) Acceptable - Apply 2 tons per acre domestic limestone (92 lbs. per 1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 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 80 lbs. per acre (1.6 lb. per 1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lb. per 1000 sq. ft.) of creeping timothy. During the period October 16 thru February 28, protect site by one of the following options:

- 1) 2 tons per acre of well-anchored straw mulch 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 untreated small grain straw immediately after seeding. Another mulch immediately after application unless mulch anchoring tool or 2 lb. 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 (8 gal. per 1000 sq. ft.) for anchoring.

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

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 CONFORMANT WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THEREIN.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERMITS SUBJECT TO PERMITS FOR PERMANENT SEEDINGS (SEC. 31) AND 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.

4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

5. ALL DISTURBED AREAS MUST BE RESTORED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 31) AND 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

7. SITE ANALYSIS:
TOTAL AREA OF SITE: 19,000 ACRES
AREA DISTURBED: 16,000 ACRES
AREA TO BE REVEGETATED OR PAVED: 16,000 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 16,000 ACRES
TOTAL FILL: 19,000 CU YDS.
GRAZE TYPE: SEE 15, 16 & 17

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. ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

10. SITE GRADING WILL BEGIN ONLY AFTER ALL PERMITS 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.

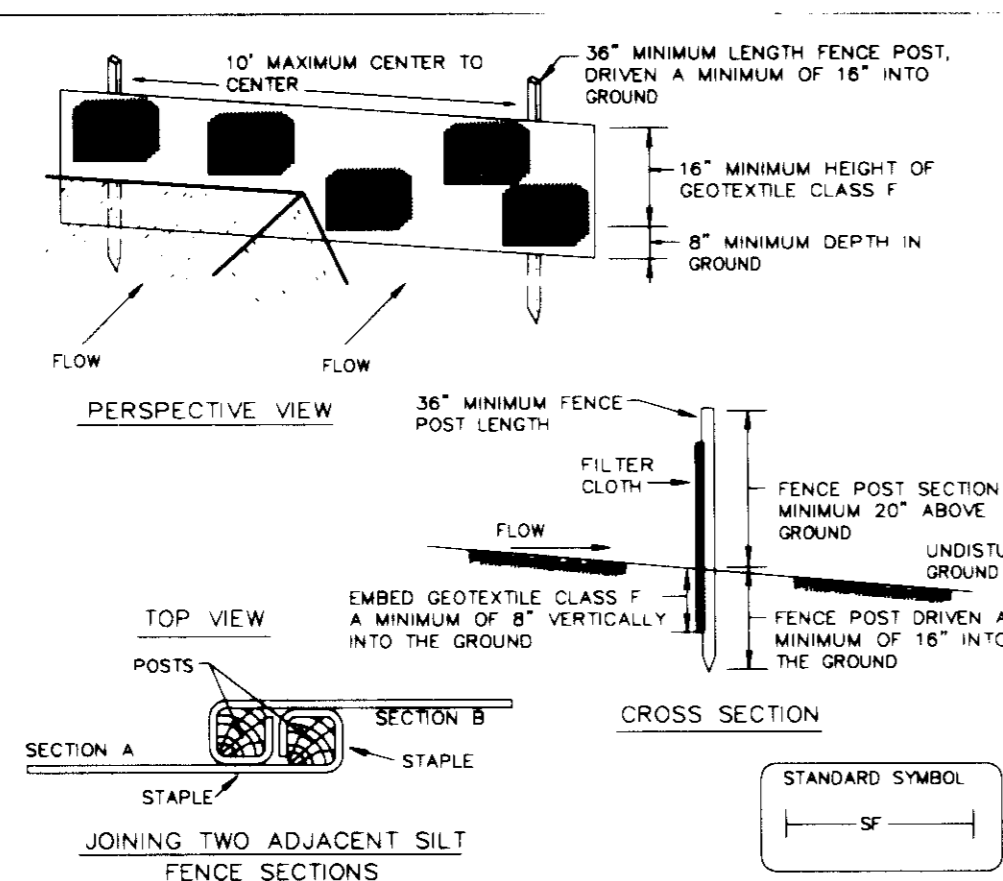
12. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSATURATED MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE 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 PERMITS 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.

15. THE WASTE OUTFALL WILL BE A DITCH WITH A CURRENT, ACTIVE GRADING PERMIT.

DETAIL 22 - SILT FENCE



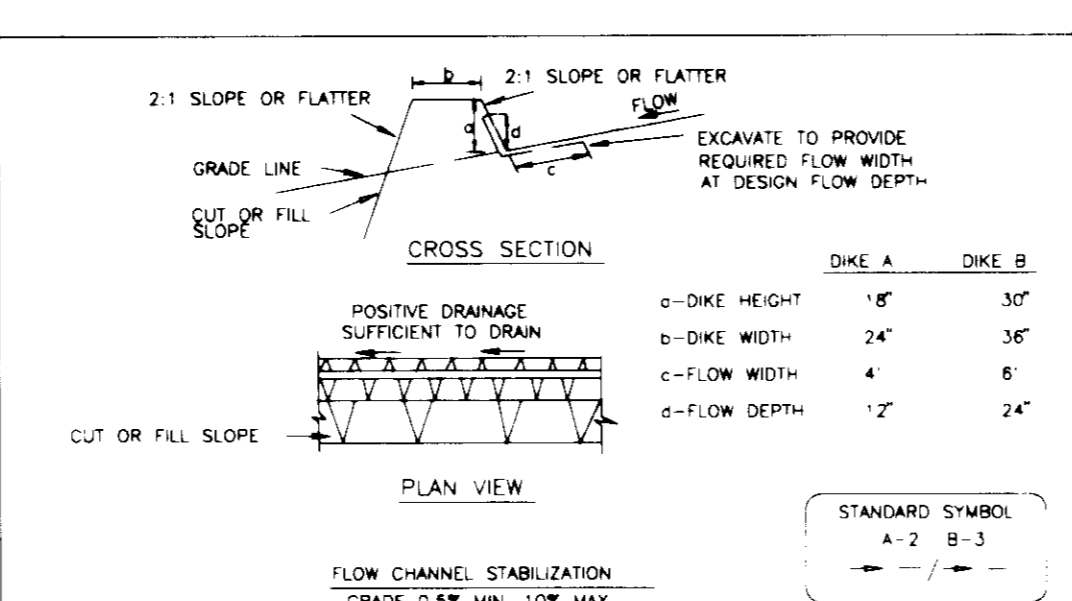
Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard 1" or 1 1/2" section weighting not less than 1.00 pound per linear foot.
2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs./in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs./in. (min.)	Test: MSMT 509
Flow Rate	0.3 gal./ft. 1/2 minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
4. Silt Fence shall be inspected after each rainfall event and maintained when bulges appear or when sediment accumulation reaches 50% of the fabric height.

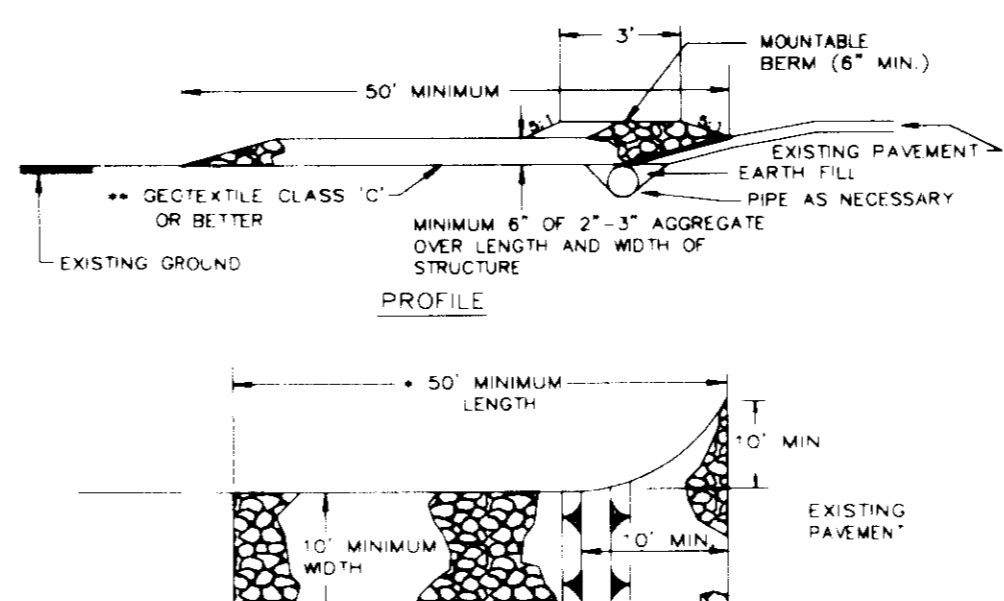
DETAIL 1 - EARTH DIKE



Construction Specifications

1. Seed and cover with straw mulch.
2. Seed and cover with Erosion Control Matting or grass with sod.
3. 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum.
4. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
5. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
6. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erodible velocity.
7. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
8. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and to be free from projections or other irregularities which will impede normal flow.
9. Fill shall be compacted by earth moving equipment.
10. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
11. Inspection and maintenance must be provided periodically and after each rain event.

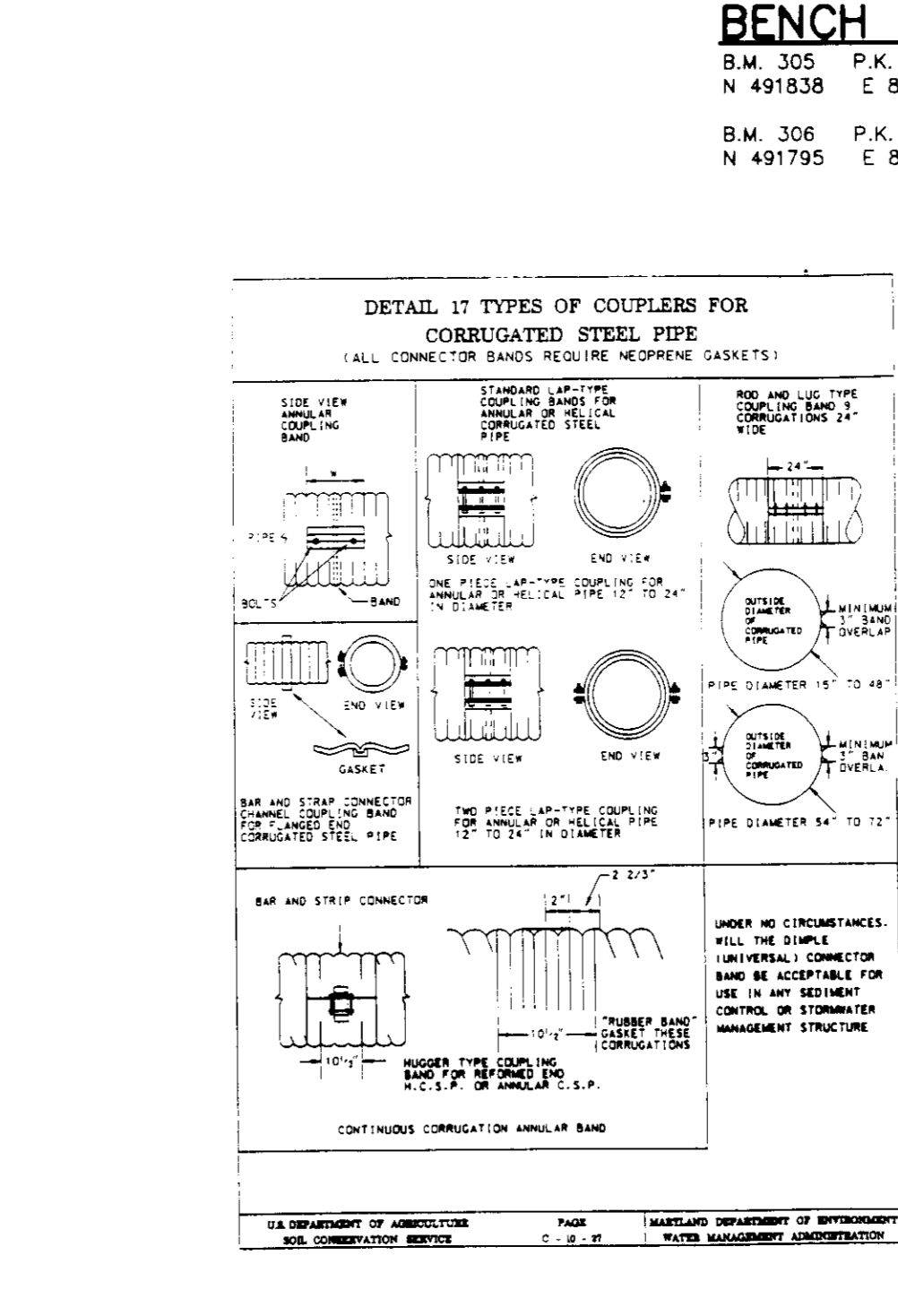
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



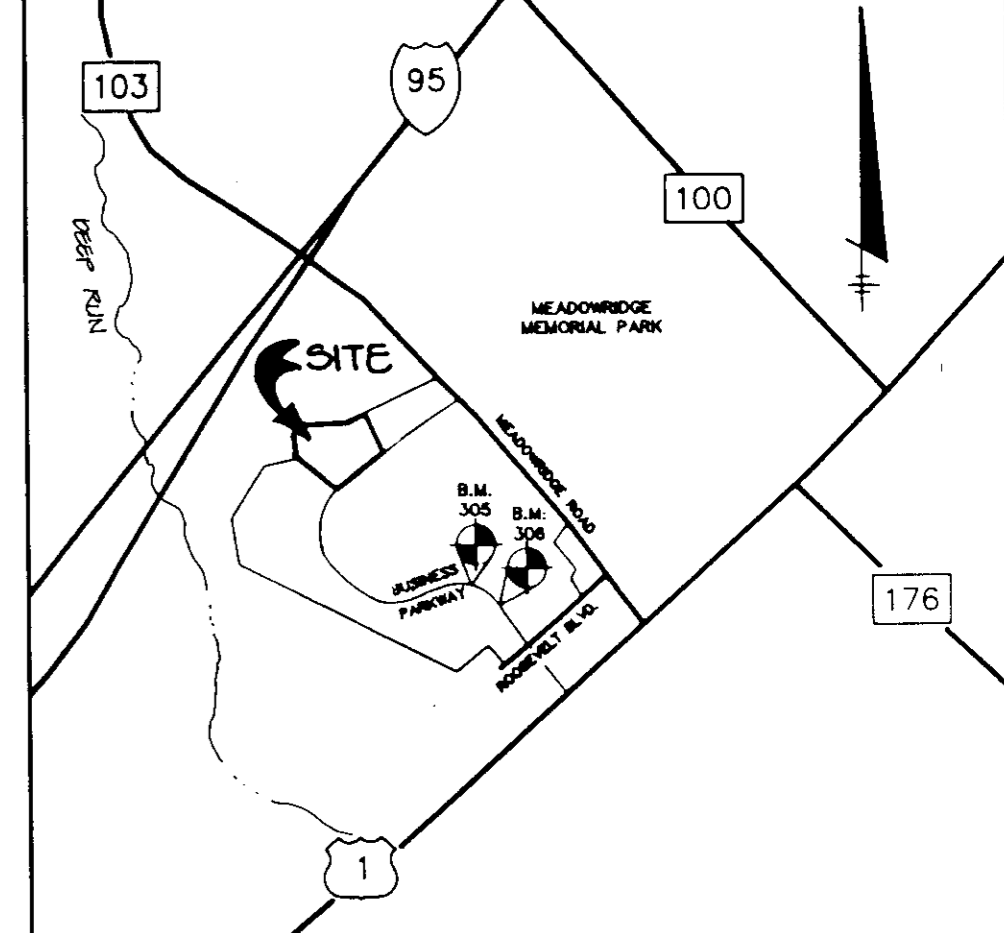
Construction Specifications

1. Length - minimum of 50' (+30' for single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
5. Surface Water - All surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5' width and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles moving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 17 TYPES OF COUPLERS FOR CORRUGATED STEEL PIPE



UNDER NO CIRCUMSTANCES WILL THE DIMPLE LATERALLY CONNECTOR BE ACCEPTABLE FOR USE IN ANY SEDIMENT CONTROL OR STORMWATER MANAGEMENT STRUCTURE.



VICINITY MAP
SCALE: 1" = 2000'

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: _____ DATE: _____

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J. Parekh 5/2/96
ENGINEER DATE

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

J.C. Winfield 5/1/96
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Howard Soil Conservation District 5/1/96
DATE

DATE NO. REVISION
OWNER / DEVELOPER

WINCHESTER HOMES, INC.
6305 IVY LANE, SUITE 700
GREENBELT, MARYLAND 20770
(301) 489-1200

PROJECT: MEADOWRIDGE BUSINESS PARK
PARCELS G-1 & H
AREA TAX MAP NO. 27 PARCELS G-1 & H PLAT #1180 & 0242
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

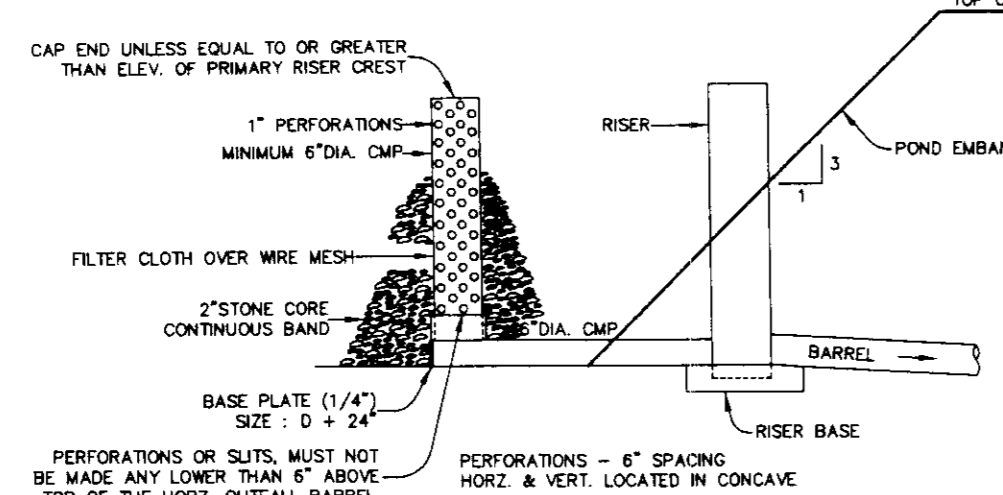
TITLE: DETAIL SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282

5.2.96 DATE
DESIGNED BY: CJR

DRAWN BY: MAD
PROJECT NO: 83513
DATE: MAY 2, 1996
SCALE: AS SHOWN

J. Parekh
JAYKANT D. PAREKH #19148
DRAWING NO. 2 OF 3

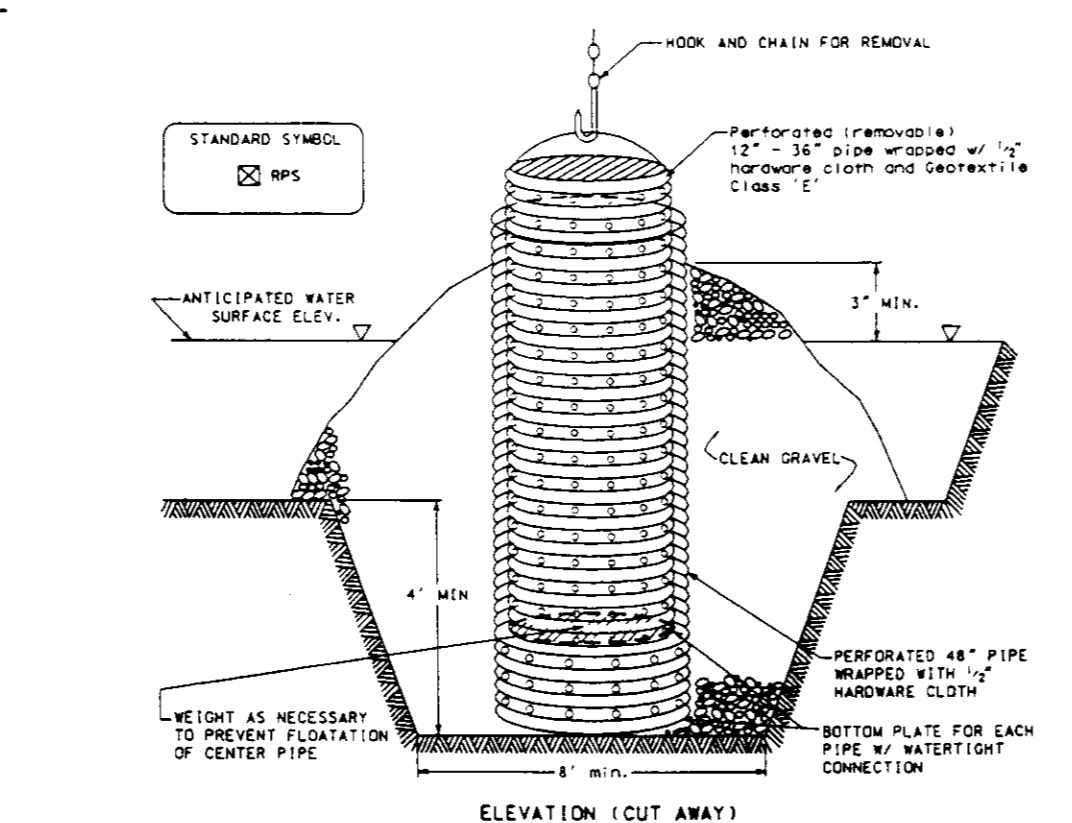


SEDIMENT BASIN DEWATERING DEVICE WITH 6" PERFORATED RISER

NO SCALE
BASIN NOTES

Construction Specifications

1. **Site Preparation:** Perimeter sediment control devices must be installed prior to clearing and grubbing. Areas where the embankment to be placed shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. The pool area shall not be cleared until completion of the dam embankment unless the pool area is to be used for borrow. In order to facilitate clean-out and removal of the pool area (measured at the top of the pipe spillway) shall be cleared of all brush, trees, and other objectionable materials.
2. **Cut-off/Traps:** A cut-off trench shall be excavated along the perimeter of earth fill embankments. The minimum depth shall be four feet. The cut-off trench shall extend up both abutments to the riser crest elevation. The minimum bottom width shall be two feet, but wide enough to permit operation of excavators and collection equipment. The side slopes shall be no steeper than 1:1. Construction requirements shall be the same as those for the embankment. The trench shall be dewatered during the backfilling-construction operations. For dewatering see Section D.
3. **Embankment:** The fill material shall be taken from approved areas shown on the plans. It shall be clean material free of roots, woody vegetation, oversized stones, rocks, or other objectionable material. Relatively pervious materials such as sand or gravel (Unified Soil Classification GW, GP, SV & SP) or organic materials (Unified Soil Classification OL and OH) shall not be placed in the embankment. Areas in which fill to be placed shall be placed in a lift placement of fill. The fill material shall contain sufficient moisture so that it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Fill material shall be placed in six-inch to eight-inch thick continuous lifts over the entire length of the fill. Connections shall be obtained by routing and hauling the construction equipment over the fill so that the entire surface of each layer of the fill is traversed by at least one wheel or track tread of the equipment or by the use of a compactor. The embankment shall be constructed to an elevation 18 percent higher than the design height to allow for settlement.
4. **Principal Spillway:** Steel risers shall be securely attached to the barrel or barrel slab by welding the full circumference making a watertight structural connection. Concrete risers shall be poured with the principal spillway in place or precast with voids around the principal spillway filled with concrete or other proof grout for watertight connection. The barrel slab must be attached to the riser at the same percent (angle) of grade as the outlet conduit. The connection between the riser and the riser base shall be watertight. All connections between barrel sections must be achieved by approved watertight hand assemblies. The barrel and riser shall be placed on a firm, smooth foundation of impervious soil as the embankment is constructed. Breaching the embankment to install the riser is unacceptable. Pervious materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-seep collars. The fill material around the pipe spillway shall be placed in four inch lifts and hand compacted under and around the pipe to at least the same density as the adjacent embankment. A depth of 1.5 times the pipe diameter (main) shall be backfilled over the principal spillway and hand compacted before crossing it with construction equipment.
5. **Emergency Spillway:** The emergency spillway shall be installed in undisturbed ground. The achievement of planned elevations, grades, design width, entrance and exit channel slopes are critical to the successful operation of the emergency spillway and must be constructed within a tolerance of +/- 0.1 feet.
6. **Vegetative Treatment:** Stabilize the embankment in accordance with the appropriate vegetative Standard and Specifications immediately following construction. In no case shall the embankment remain unstabilized for more than seven (7) days. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon basin completion and maintained and maintained erosion free during the life of the basin.
7. **Safety:** Local requirements concerning fencing and signs shall be met, warning the public of hazards of soft sediment and floodwater.
8. **Maintenance:** Repair all damage caused by soil erosion and construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser as shown on the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain. Disposal areas must be stabilized.
9. **Final Disposal:** When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will differ from the design disposition of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed and safely disposed of and the basin shall be backfilled with a structural fill. When the basin area is to remain open space, the pond may be pumped dry (using methods in Section D - Dewatering), graded, and back filled.
10. **Conversion to Stormwater Management Structure:** After permanent stabilization of all disturbed contributory drainage areas, temporary sediment basins, if initially built and certified to meet permanent standards, may be converted to permanent stormwater management structures. To convert the basin from temporary to permanent use, the outlet structure must be modified in accordance with approved stormwater management design plans. Additional grading may also be necessary to provide the required storage volume in the basin. Conversion can only take place after all disturbed areas have been permanently stabilized to the satisfaction of the inspection authority and storm drains have been flushed.

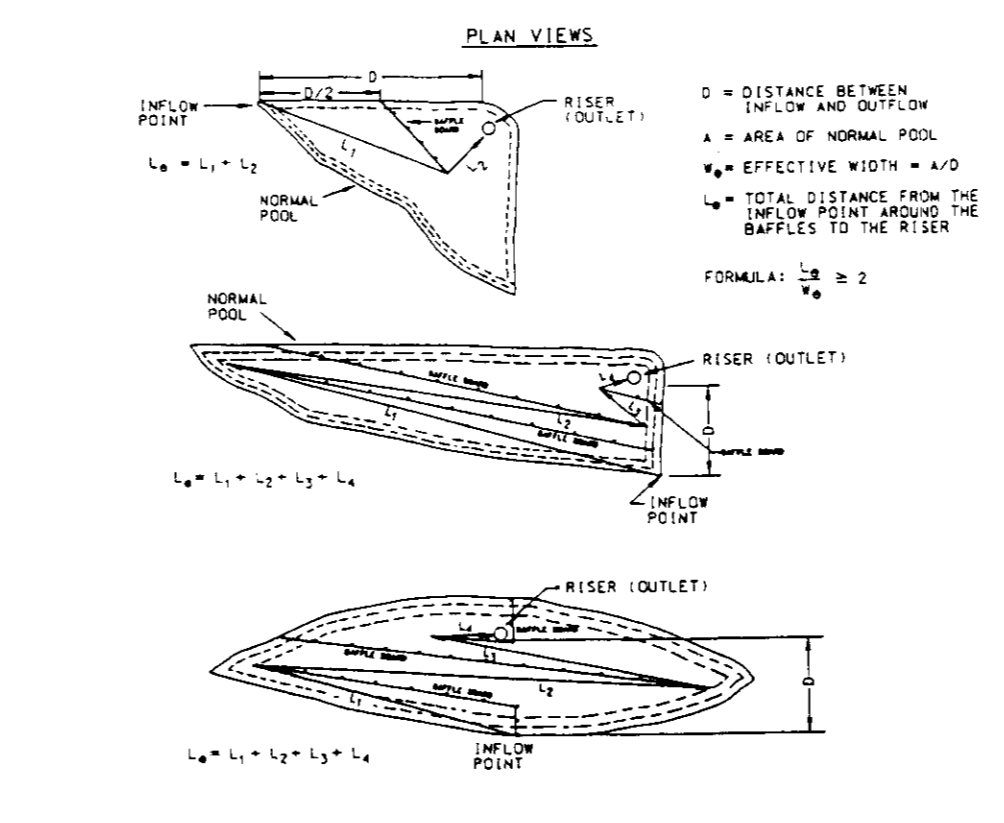


REMOVABLE PUMPING STATION

NO SCALE

Construction Specifications

1. The outer pipe should be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wrapped with 1/2" hardware cloth to prevent backfill material from entering the perforations.
2. After installing the outer pipe, backfill around outer pipe with 2" aggregate or other approved material.
3. The inside strong pipe (center pipe) should be constructed by perforating a 48" dia. 12' x 12' pipe with 1/2" holes 6" on center. The center pipe shall be wrapped with 1/2" hardware cloth. First, then wrapped again with Geotextile Class F.
4. The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when converting a basin.

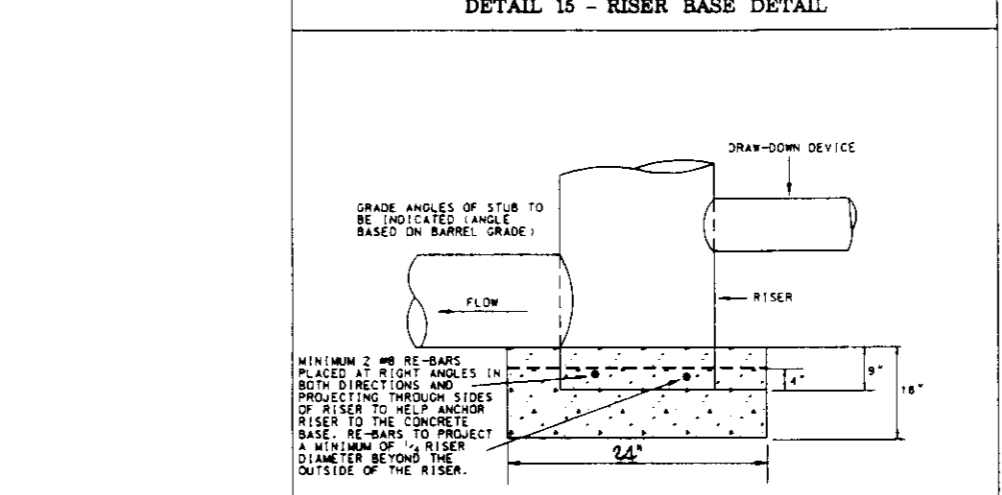


SEDIMENT BASIN BAFFLES

NO SCALE

Construction Specifications

1. The outer pipe should be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wrapped with 1/2" hardware cloth to prevent backfill material from entering the perforations.
2. After installing the outer pipe, backfill around outer pipe with 2" aggregate or other approved material.
3. The inside strong pipe (center pipe) should be constructed by perforating a 48" dia. 12' x 12' pipe with 1/2" holes 6" on center. The center pipe shall be wrapped with 1/2" hardware cloth. First, then wrapped again with Geotextile Class F.
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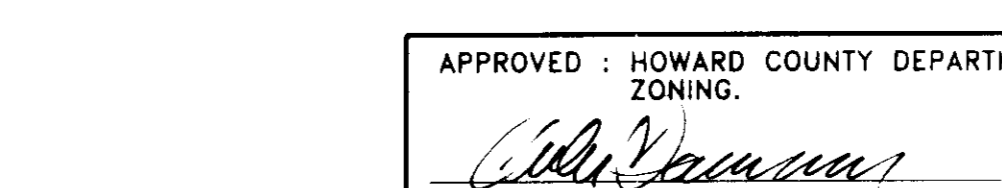


DETAIL 15 - RISER BASE DETAIL

NO SCALE

Construction Specifications

1. A concrete base 18" thick with the riser embedded 9" in the base.
2. A 1/2" minimum thickness steel plate attached to the riser by a continuous weld around the perimeter of the riser. The plate shall rest on 2" of concrete or compacted earth placed on top of the concrete base. The plate shall be 1/2" thick and shall be 1/2" wide and shall be 1/2" thick.
3. The riser shall have a base attached with a watertight connection and shall have sufficient weight to prevent flotation of the riser. The riser shall be 1/2" thick and shall be 1/2" wide and shall be 1/2" thick.

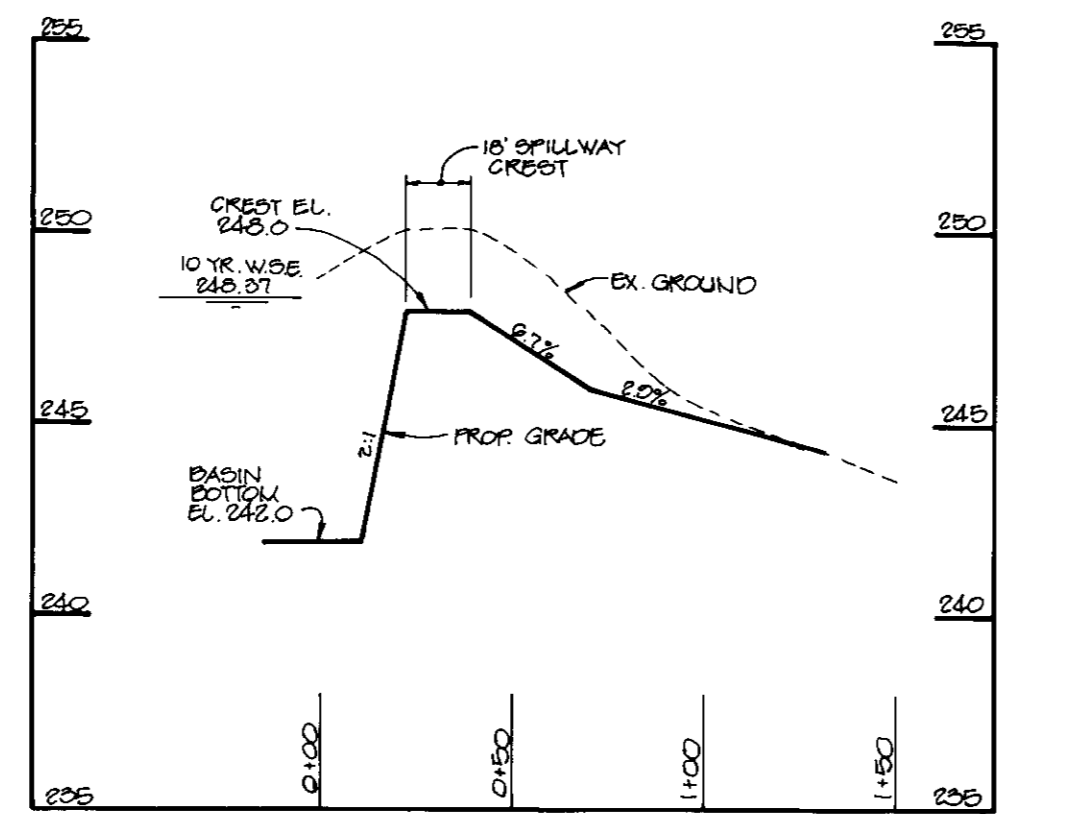


DETAIL 16 - CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE

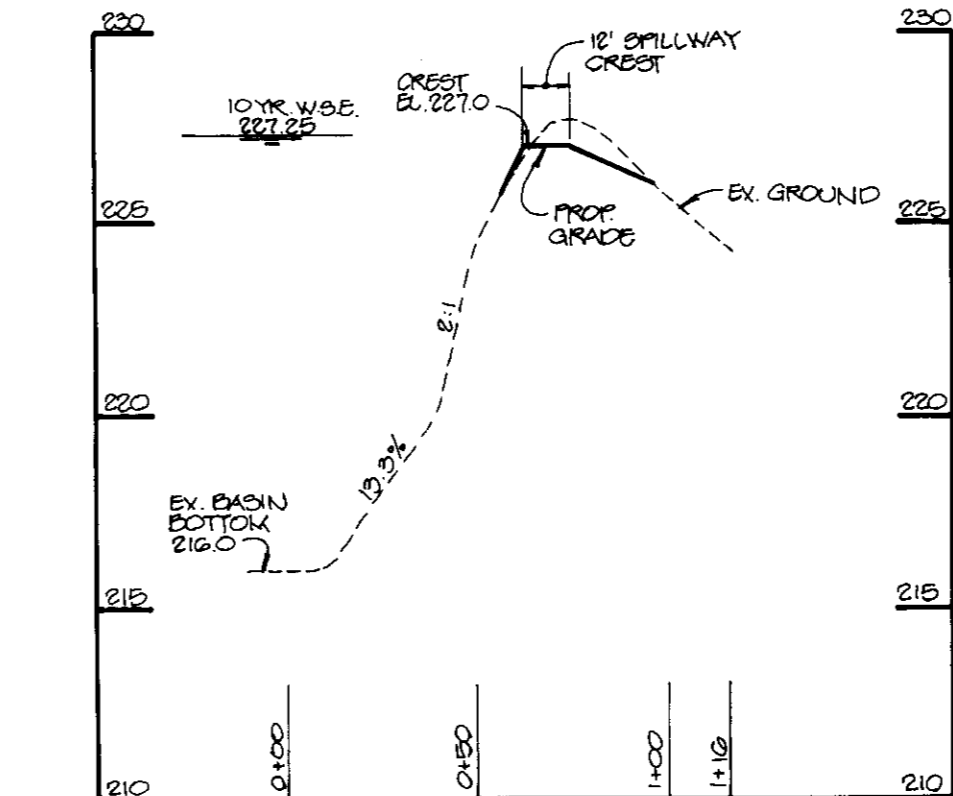
NO SCALE

Construction Specifications

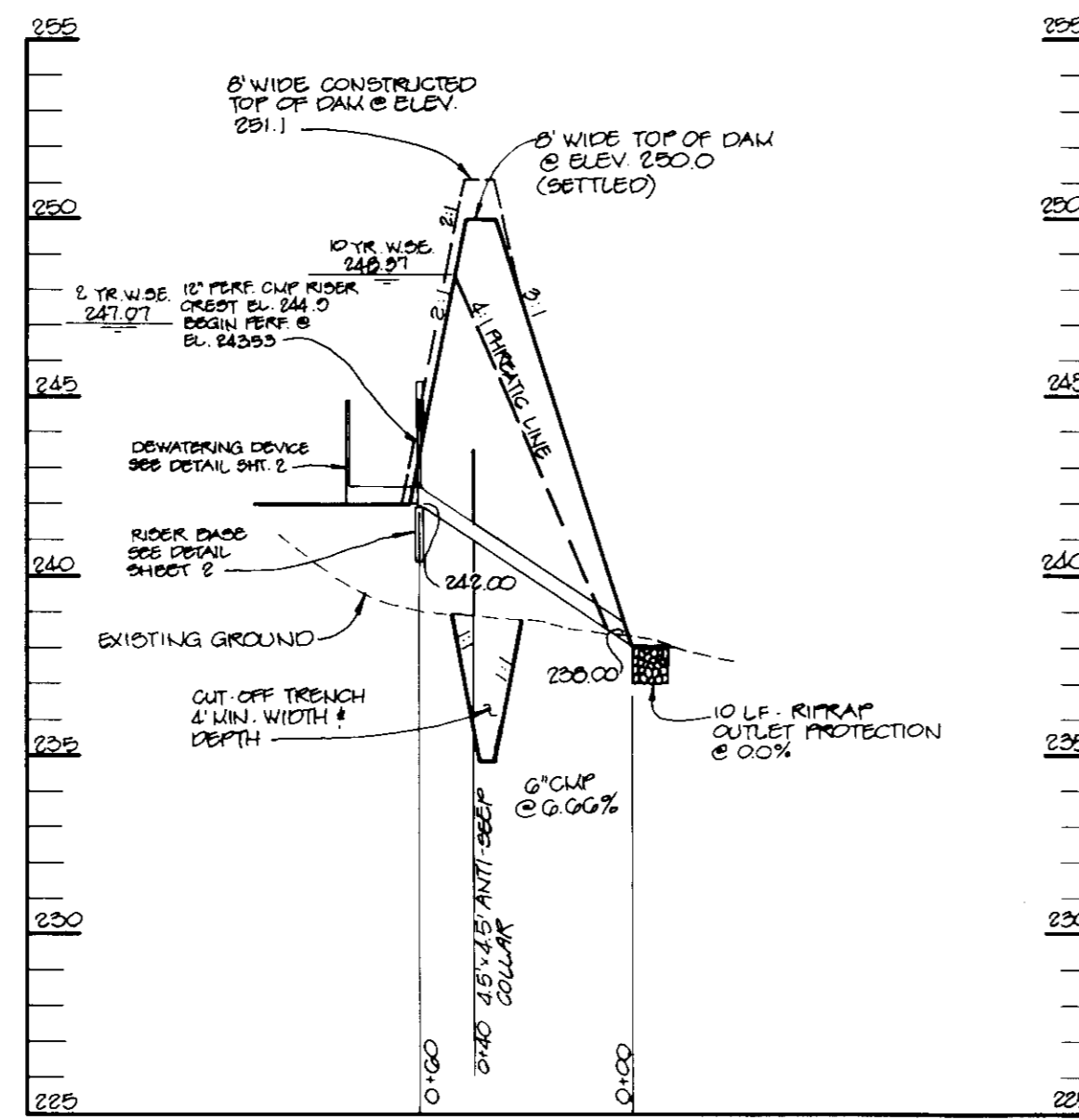
1. The trash rack shall be constructed of 1/2" x 1/2" x 1/2" steel bars.
2. The trash rack shall be attached to the riser at the same percent (angle) of grade as the outlet conduit.
3. The trash rack shall be attached to the riser at the same percent (angle) of grade as the outlet conduit.



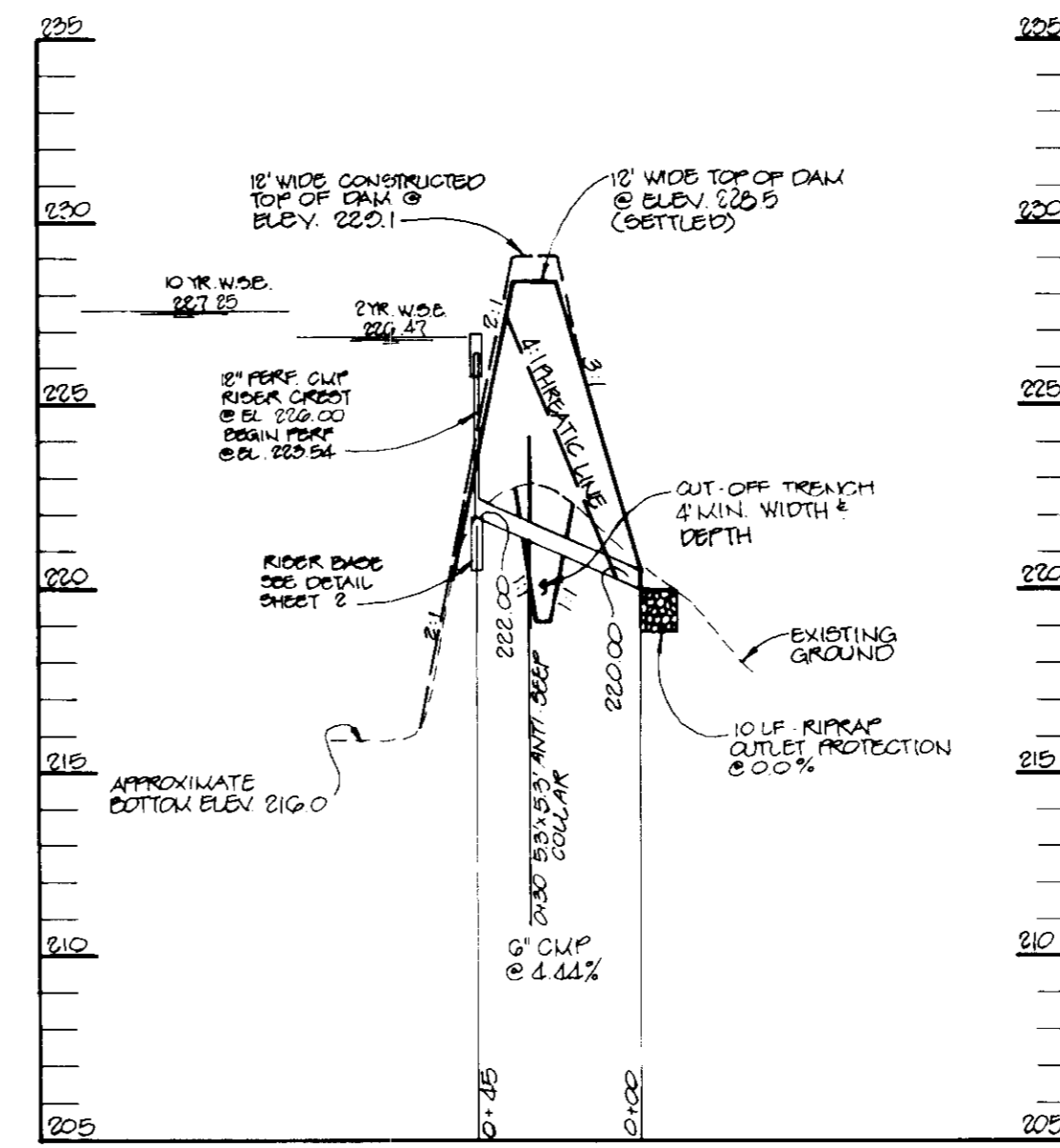
EMERGENCY SPILLWAY PROFILE - SEDIMENT BASIN #1
SCALE: HOR. 1"=50' VERT. 1"=5'



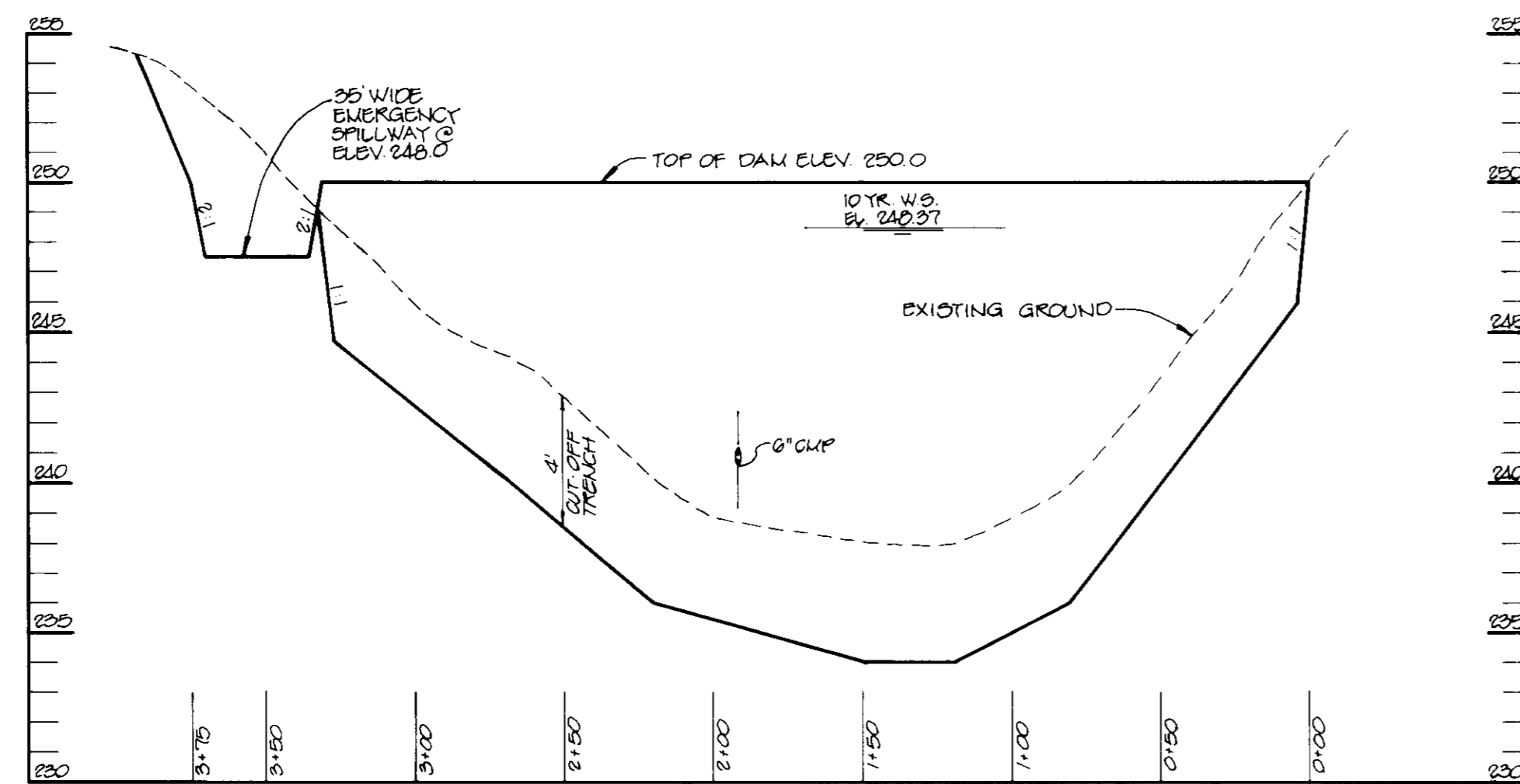
EMERGENCY SPILLWAY PROFILE - SEDIMENT BASIN #2/
EX. SEDIMENT TRAP #3
SCALE: HOR. 1"=50' VERT. 1"=5'



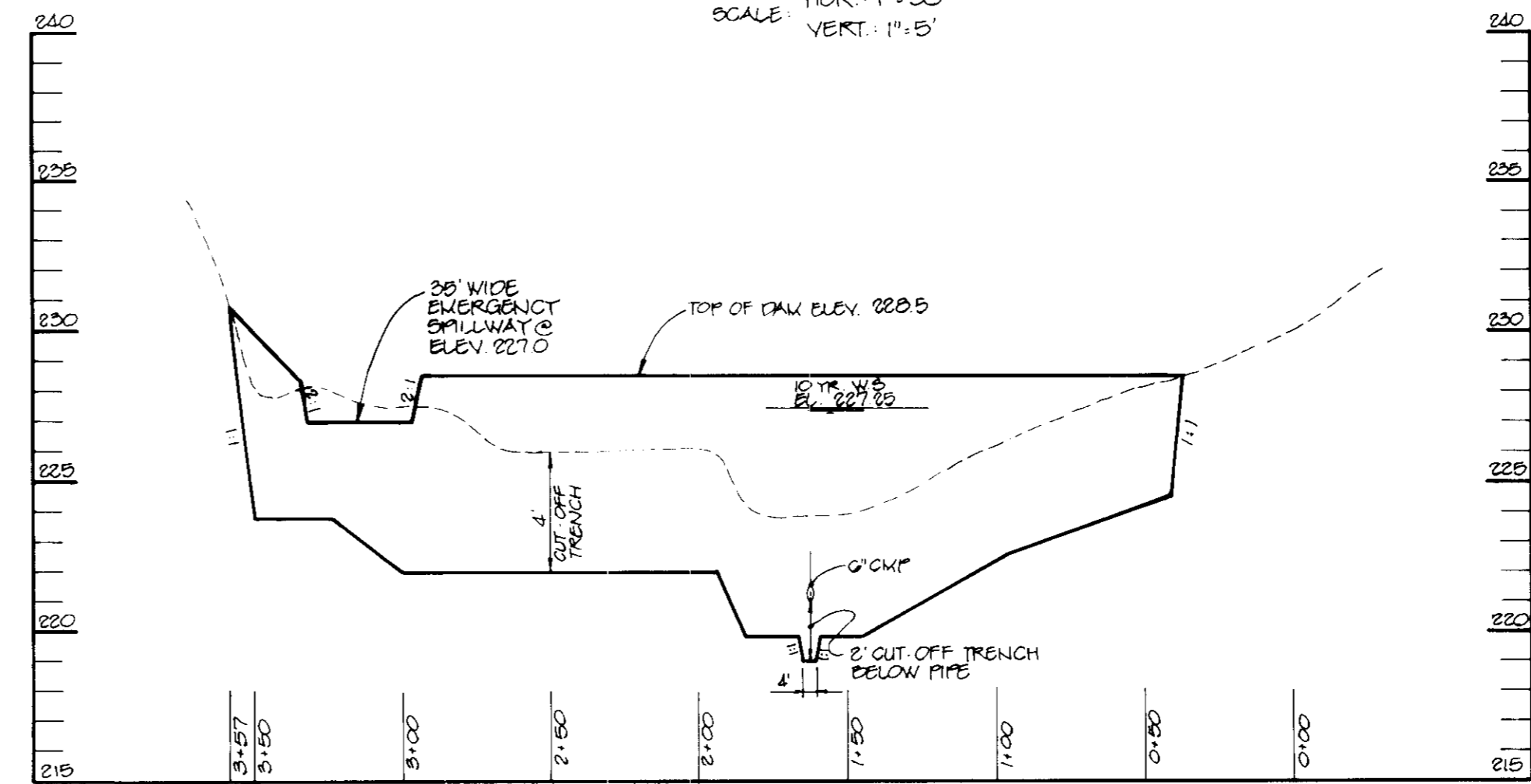
PRINCIPAL SPILLWAY - SEDIMENT BASIN #1
SCALE: HOR. 1"=50' VERT. 1"=5'



PRINCIPAL SPILLWAY - SEDIMENT BASIN #2/
EX. SEDIMENT TRAP #3
SCALE: HOR. 1"=50' VERT. 1"=5'



PROFILE ALONG C/L OF DAM - SEDIMENT BASIN #1
SCALE: HOR. 1"=50' VERT. 1"=5'



PROFILE ALONG C/L OF DAM - SEDIMENT BASIN #2/
EX. SEDIMENT BASIN #3
SCALE: HOR. 1"=50' VERT. 1"=5'

BY THE DEVELOPER :
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER _____ DATE _____

BY THE ENGINEER :
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Larek 5/14/96
ENGINEER DATE

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

J.G. Wainfield / s.s. 5/14/96
NATURAL RESOURCES/ CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Shelley Solis 5/14/96
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James R. Butler 5/20/96
DIRECTOR DATE

Chad Deane 5/16/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

John Swannomy 5/17/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
WINGCHESTER HOMES, INC.
6305 IVY LANE, SUITE 200
GREENBELT, MARYLAND 20770
(301) 480-1200

PROJECT:
MEADOWRIDGE BUSINESS PARK
PARCELS G-1 & H

AREA TAX MAP # 87 PARCELS G-1 & H PLAT # 11503 & 0042
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE:
PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX : 410-997-9282

5.2.96
DATE

DESIGNED BY: CJR
DRAWN BY: WAD
PROJECT NO: 88810
DATE: MAY 2, 1996
SCALE: AS SHOWN
DRAWING NO. 3 OF 3

J. Larek
JATKANT D. PAREKH #10142