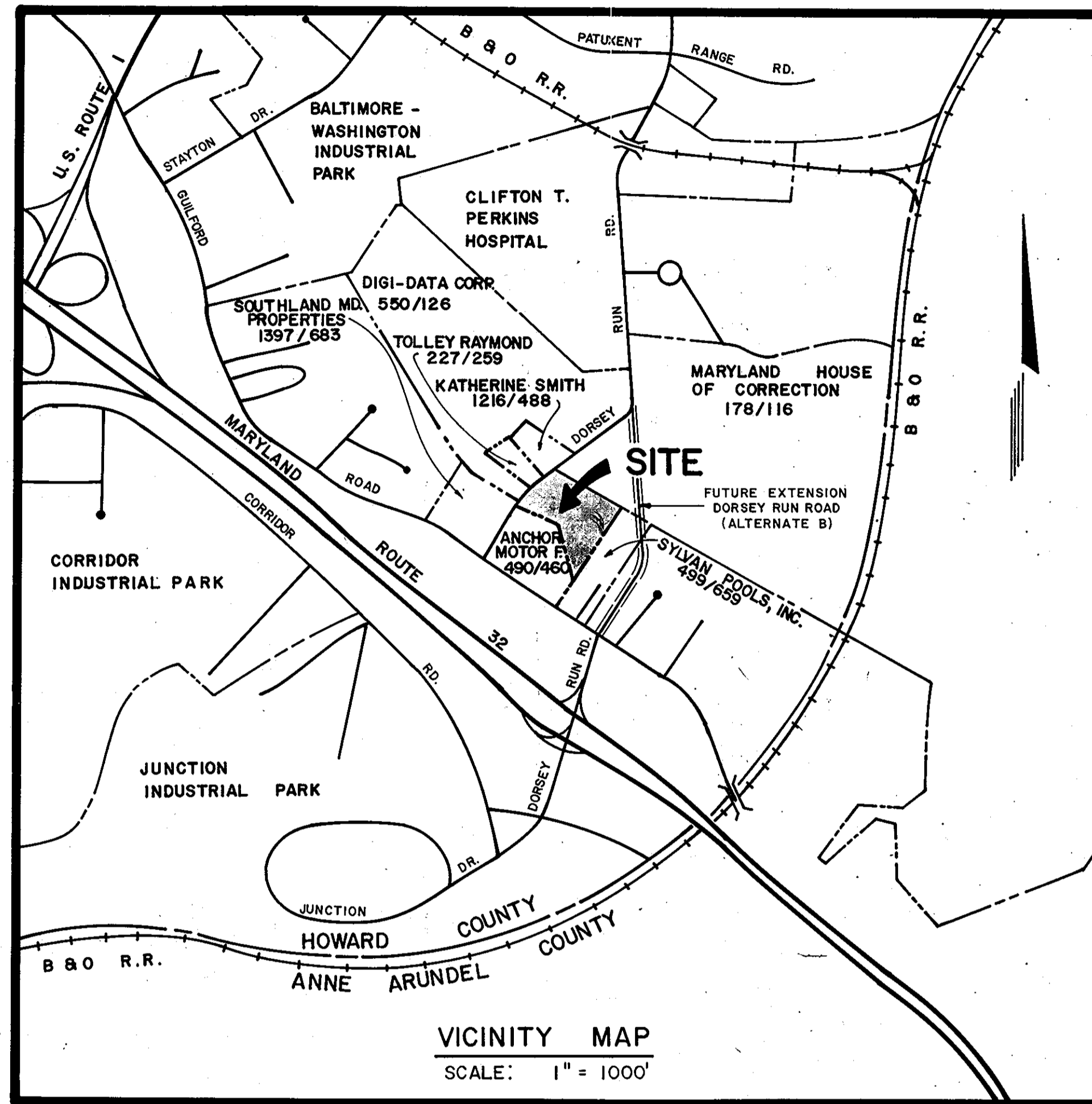


DORSEY RUN ASPHALT PLANT

GENERAL NOTES

1. THE APPROXIMATE LOCATION OF ALL UTILITIES IS SHOWN BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL LOCATE, PROTECT AND SUPPORT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER/INSPECTOR, AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
3. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
STATE HIGHWAY ADMINISTRATION - 531-5533
BALTIMORE GAS & ELECTRIC COMPANY - 561-2585 (CONTRACTOR SERVICES)
BALTIMORE GAS & ELECTRIC COMPANY - 234-6313 (UNDERGROUND DAMAGE CONTROL)
BALTIMORE GAS & ELECTRIC COMPANY - 298-9013 (TROUBLESHOOTING)
"MISS UTILITY" - 800-257-7777
CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - 725-9976
BUREAU OF UTILITIES/HOWARD COUNTY - 992-2366
4. ALL DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
5. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS AND HOWARD COUNTY DESIGN MANUAL, VOLUME IV, AS AMENDED 1988.
6. ALL OUT DOOR LIGHT SHALL COMPLY WITH THE REQUIREMENTS OF ZONING REGULATION SECTION 134.



| NO. | TYPE | INV. IN | INV. OUT | TOP | HO. CO. STD. |
|-----|-----------------|---------|----------|--------|--------------|
| E-1 | MEIAL END SECT. | 227.00 | 225.00 | | SD 5.01 |
| E-2 | MEIAL END SECT. | 220.00 | 222.00 | | SD 5.01 |
| M-1 | MANHOLE | 227.10 | 226.50 | 227.00 | G 5.13 |
| | | 227.13 | 227.03 | 223.73 | |

| | |
|-----------------------|-------------|
| EXISTING CONTOUR | --- 240 --- |
| PROPOSED CONTOUR | — 240 — |
| SPOT ELEVATION | + 40.2 |
| DIRECTION OF DRAINAGE | → |
| LIMITS OF SUBMISSION | --- |
| GRAVEL PARKING | ---- |
| EX. 12" WATER | ---- |
| PROPOSED STORM DRAIN | ===== |
| PROPOSED DRIVEWAY | ===== |

SEDIMENT CONTROL MEASURE FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS AND SDP.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE _____ DATE _____

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

APPROVED _____ DATE _____

HOWARD SCD _____ DATE _____

SITE DEVELOPMENT PLANS HOWARD COUNTY, MARYLAND

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

James P. Blum 12-26-89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Richard Blum 1/4/90
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEM AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James P. Blum 12/21/89
DIRECTOR DATE

James P. Blum 12-22-89
CHIEF BUREAU OF ENGINEERING DATE

HOWARD COUNTY APPROVAL

- INDEX TO DRAWINGS
1. TITLE SHEET
 2. SITE DEVELOPMENT PLAN
 3. SITE DEVELOPMENT PLAN DETAILS AND STORM DRAIN PROFILE
 4. ASPHALT PLANT SECTIONS
 5. STORMWATER MANAGEMENT NOTES AND DETAILS
 6. STORMWATER MANAGEMENT PROFILES AND DETAILS
 7. EROSION AND SEDIMENT CONTROL PLAN - PHASE I
 8. EROSION AND SEDIMENT CONTROL PLAN - PHASE II
 9. EROSION AND SEDIMENT CONTROL DETAILS
 10. SOILS/VEGETATION MAP

SITE ANALYSIS

ZONED M-2 (MANUFACTURING HEAVY)
AREA OF PARCELS: 10.53 ACRES
PROPOSED USE: ASPHALT PLANT
BUILDING AREA (CONTROL HOUSE): 252 SF
TOTAL BUILDING COVERAGE: 5,436.25 SF (1.2%)
OPEN SPACE ON SITE: 453,250.55 SF (98.81%)
MAXIMUM NUMBER OF EMPLOYEES: 4
NUMBER OF PARKING SPACES REQUIRED: 4
PARKING SPACES PROVIDED: 5

FOR REVISIONS ONLY

PROFESSIONAL CERTIFICATION
UNLIMITED PRACTICE RIGHTS (MAY BE LIMITED BY BOARD OF PROFESSIONAL ENGINEERS)
JAMES P. BLUM
LICENSE NO. 19845
EXPIRES 12/31/90

5TH PLAN REVISION PREPARED BY
BOHLER ENGINEERING

SUBDIVISION NAME: DORSEY RUN ASPHALT PLANT
SECT. AREA: 609/PARCEL # 65
PLAT # OR L/F: 2813 BLOCK # 14 ZONE M-2 TAX/ZONE MAP 48 ELEC. DIST. 6th CENSUS TR. 6064
WATER CODE 004 SEWER CODE N/A

| NO. | REVISIONS | DATE | CKD |
|-----|-------------------------------------|----------|-----|
| 5 | ADDED LIGHTING SCALE AND TRAILER | 12/15/89 | |
| 3 | ORIGINALS ISSUED TO HO. CO. | 11/17/89 | |
| 2 | REVISED FOR HO. CO. REVIEW COMMENTS | 9/20/89 | |
| 1 | ISSUED TO HO. CO. FOR REVIEW | 8/21/89 | |

PHR&A
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS

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7609 STANDISH PLACE
ROCKVILLE, MARYLAND 20855
301-762-2220 WASH. 301-792-7244 BALT.

OFFICES
FAIRFAX, VA.,
BRIDGEWATER, VA.,
CHANTILLY, VA.,
LEESBURG, VA.,
ROCKVILLE, MD.,
VIRGINIA BEACH, VA.



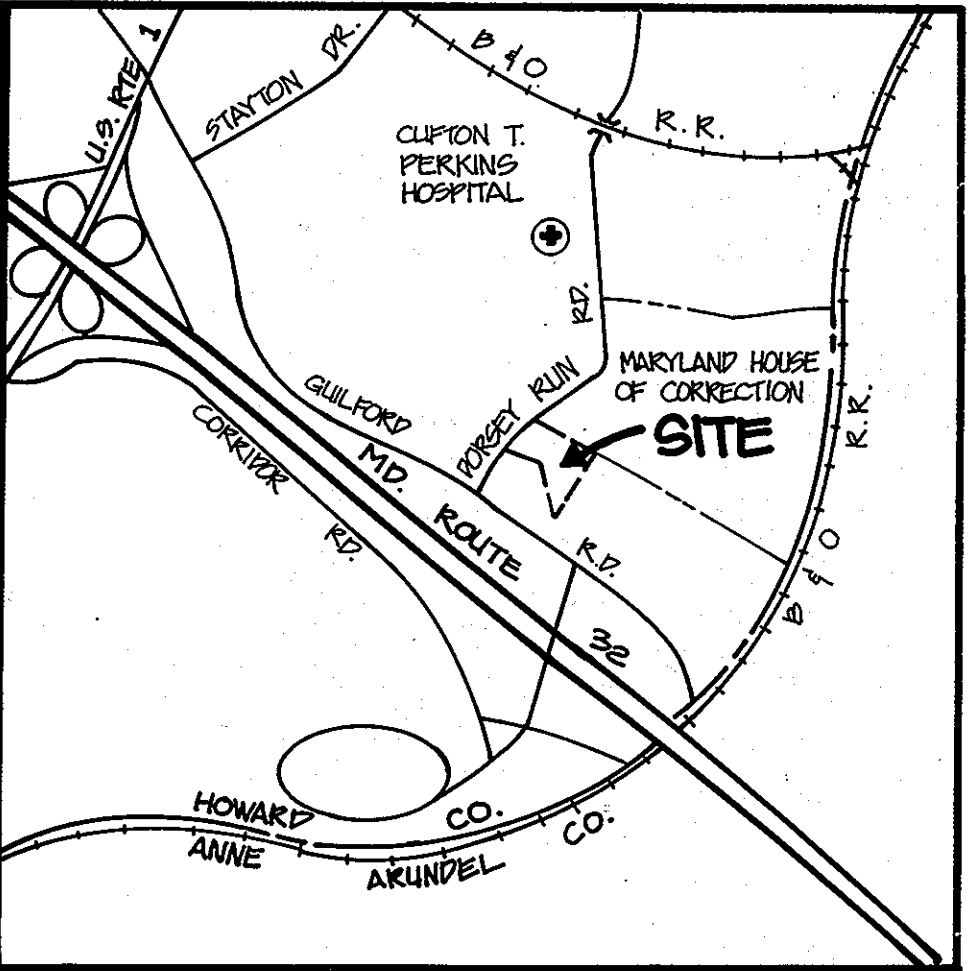
OWNER
EDWARD W. SCHULTZE
8016 GREENTREE ROAD
BETHESDA, MD 20817

DEVELOPER
DRIGGS CORPORATION
8700 ASHWOOD DRIVE
CAPITOL HEIGHTS, MD 20743

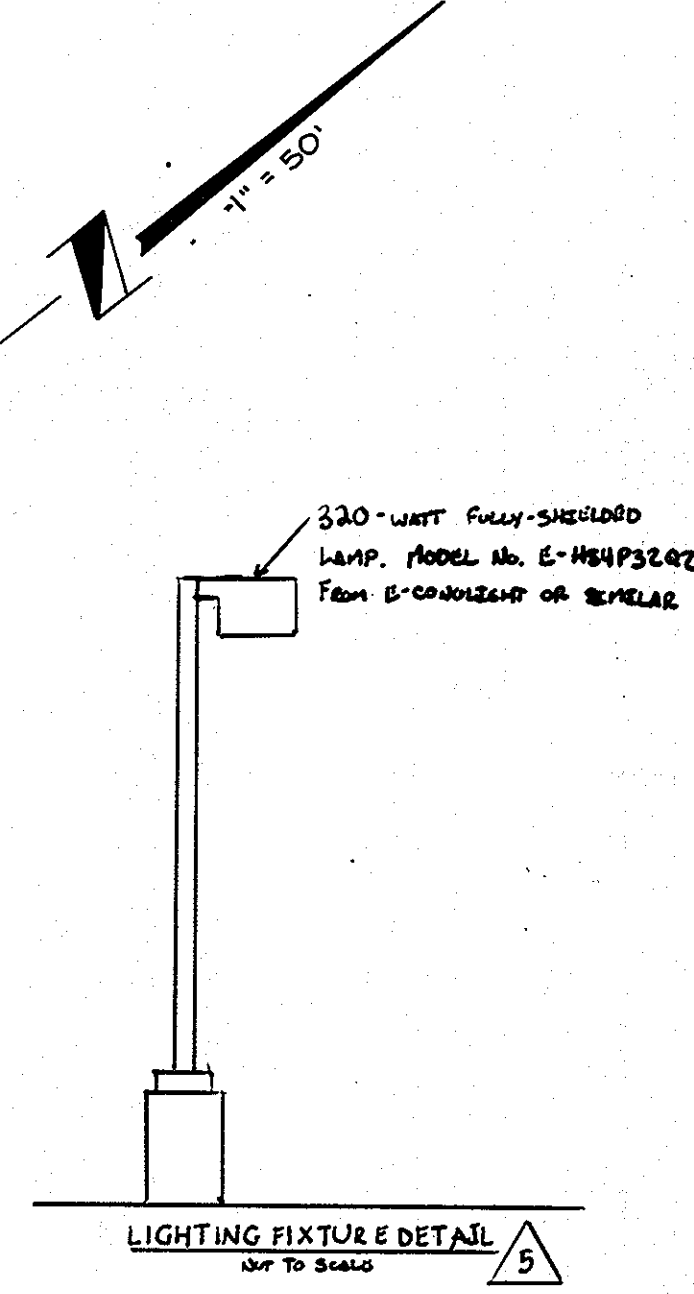
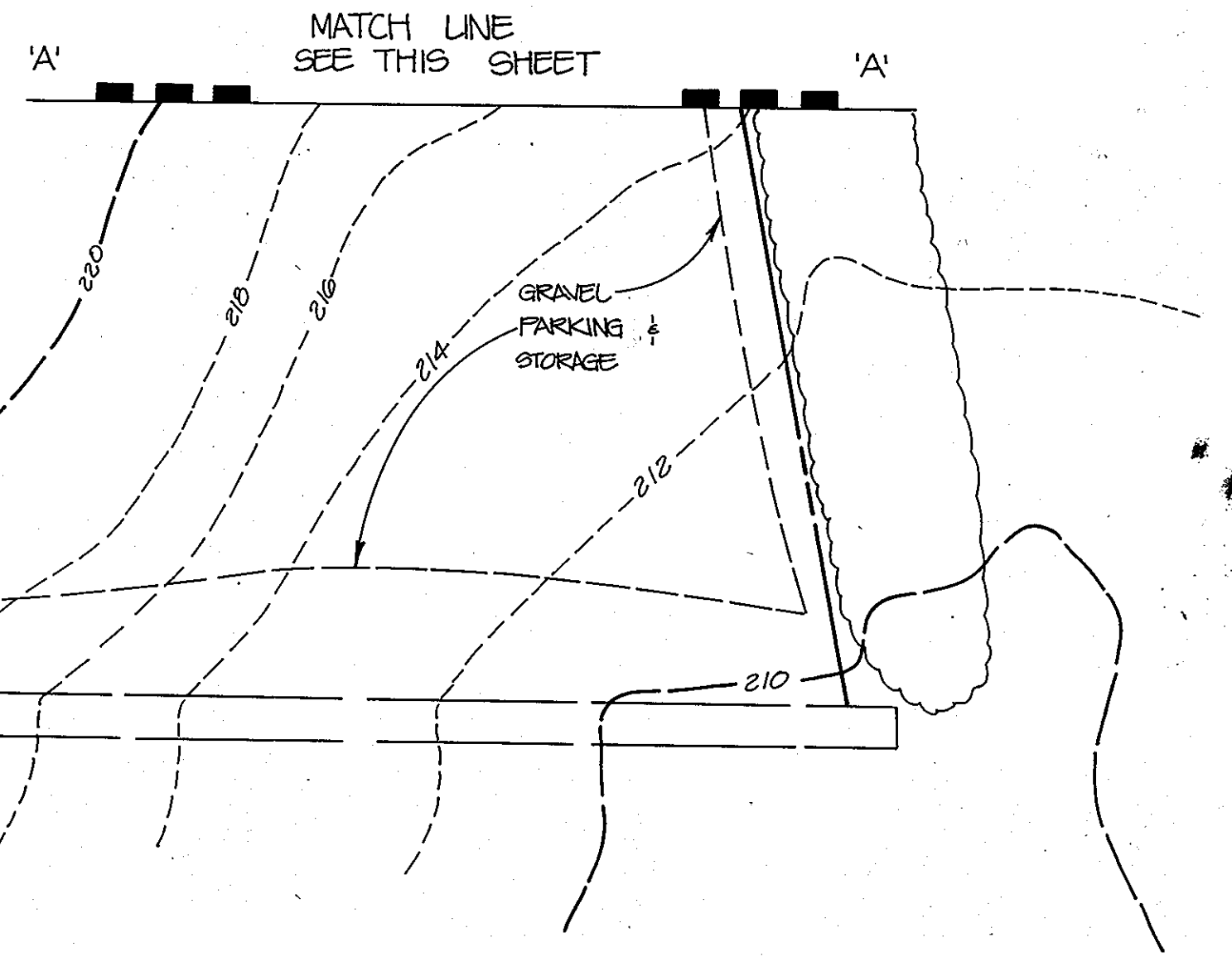
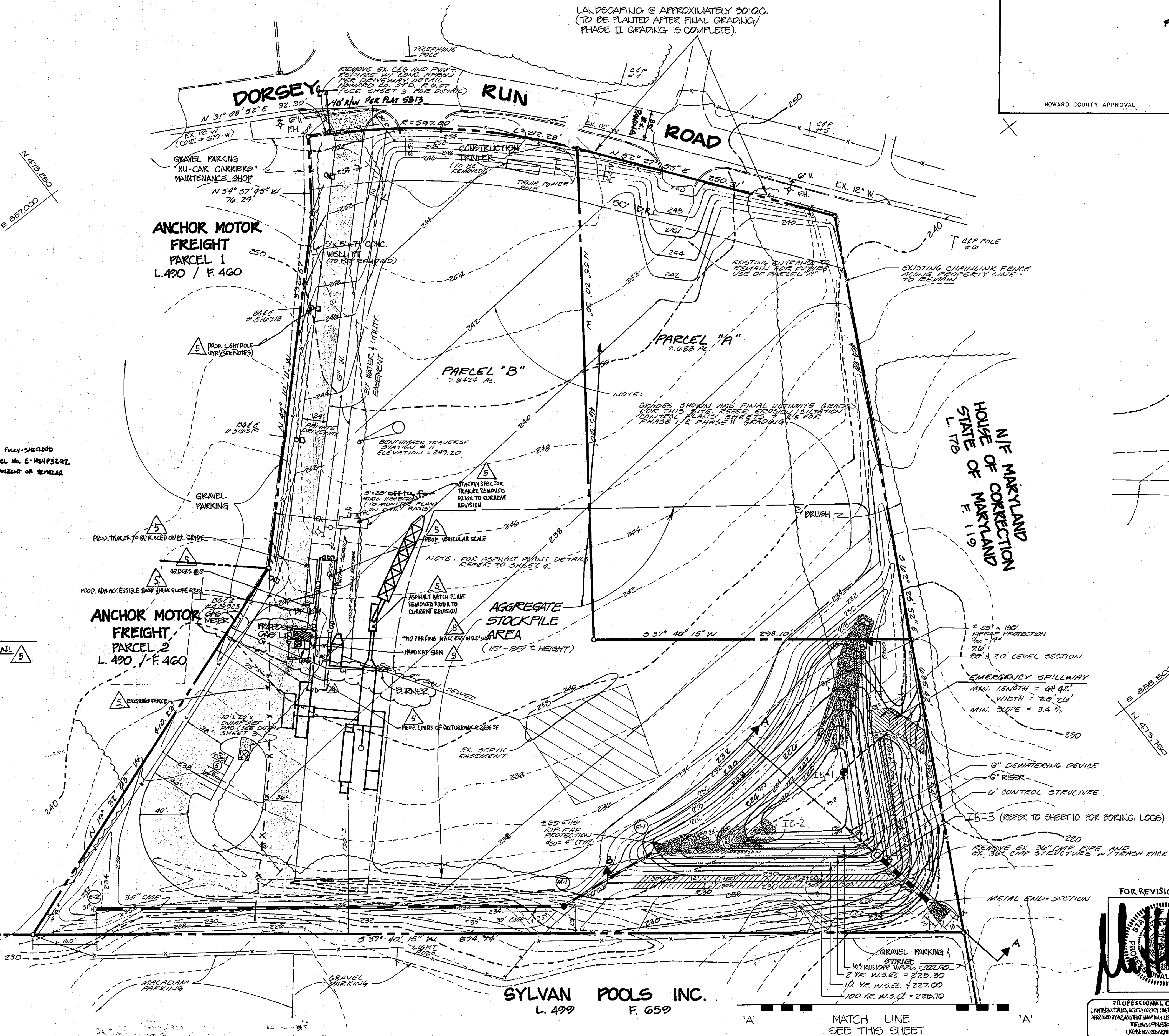
TITLE SHEET
DORSEY RUN ASPHALT PLANT
PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
PARCELS A & B
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65

| SCALE | SHEET | FILE NO. |
|-------|-------|----------|
| 1 | 10 | 2311-1-0 |

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 12-26-89
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 11/14/90
 APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEM AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 12/27/89
 APPROVED: *[Signature]* DATE: 12/16/89
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: *[Signature]* DATE: 12/16/89
 CHIEF BUREAU OF ENGINEERING



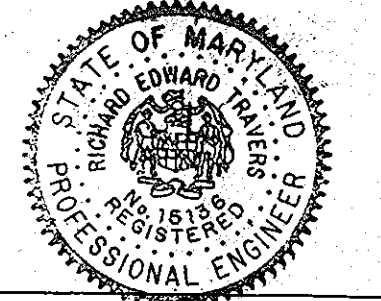
VICINITY MAP
 SCALE: 1" = 2000'



- NOTES:
1. GRA PARKING SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 2. HANDICAP ACCESSIBLE RAMP SHALL NOT EXCEED 6.33% RUNNING SLOPE AND 2% CROSS-SLOPE.
 3. ALL LIGHT FIXTURES SHALL BE FULLY SHIELDED PER ZONING REGULATION SECTION 15A.

- PLANTING NOTES:
1. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO PLANTING (SEE NOTE #3 ON SHEET #1).
 2. ALL PLANT MATERIAL AND PLANTING SHALL BE IN ACCORDANCE WITH "AMERICAN STANDARD FOR NURSERY STOCK" BY THE A.A.N.
 3. SUBSTITUTIONS MAY BE PERMITTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT, (762-2220).

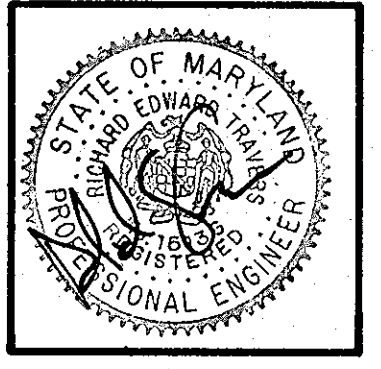
| NAME | PLANT | SCHEDULE | SIZE | QUANTITY | REMARKS |
|---------------------------|-------|----------|------|----------|---------|
| TILA CORDATA 'GREENSPARE' | | 2" COL. | 15" | 15 | B & B |
| GREENSPARE LINDEN | | 12"-14" | | | |



| PARCEL | STREET ADDRESS |
|--------|----------------------|
| A | 8605 DORSEY RUN ROAD |
| B | 8605 DORSEY RUN ROAD |

| NO. | REVISIONS | DATE | CHKD |
|-----|------------------------------------|----------|------|
| 5 | ADDED LIGHTING, SCALE, AND TRAILER | | |
| 4 | ADDED G' GAS LINE | 3/12/01 | |
| 3 | ORIGINALS RETURNED TO HQ CO. | 11/17/89 | |
| 2 | REVISED PER HQ CO. REVIEW COMMENTS | 9/22/89 | |
| 1 | ISSUED TO HOWARD COUNTY | 8/1/89 | |

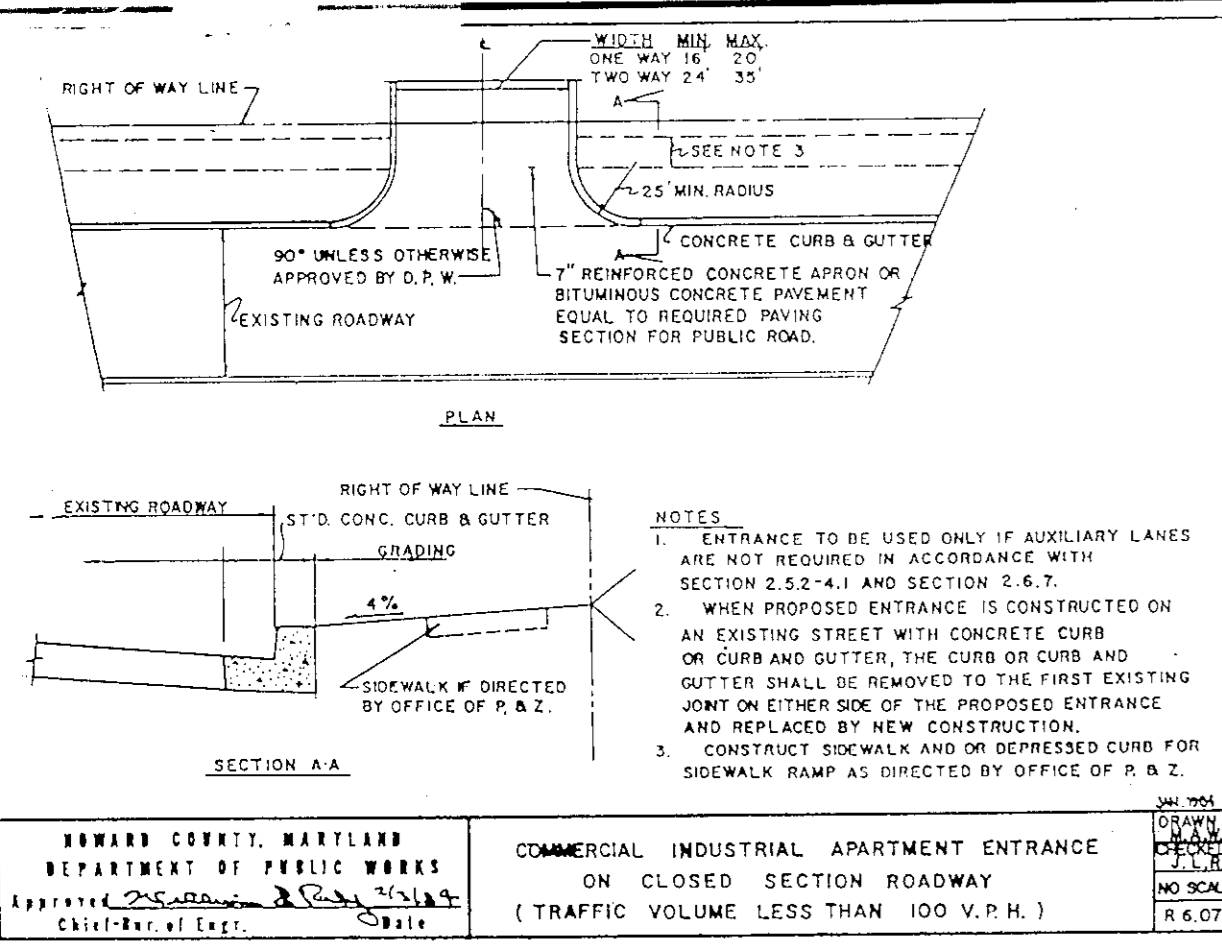
PHR&A
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 PATTON, HARRIS, RUST & ASSOCIATES, PC
 7609 STANDISH PLACE
 ROCKVILLE, MARYLAND 20855
 301-762-2220 WASH. 301-792-7244 BALT.



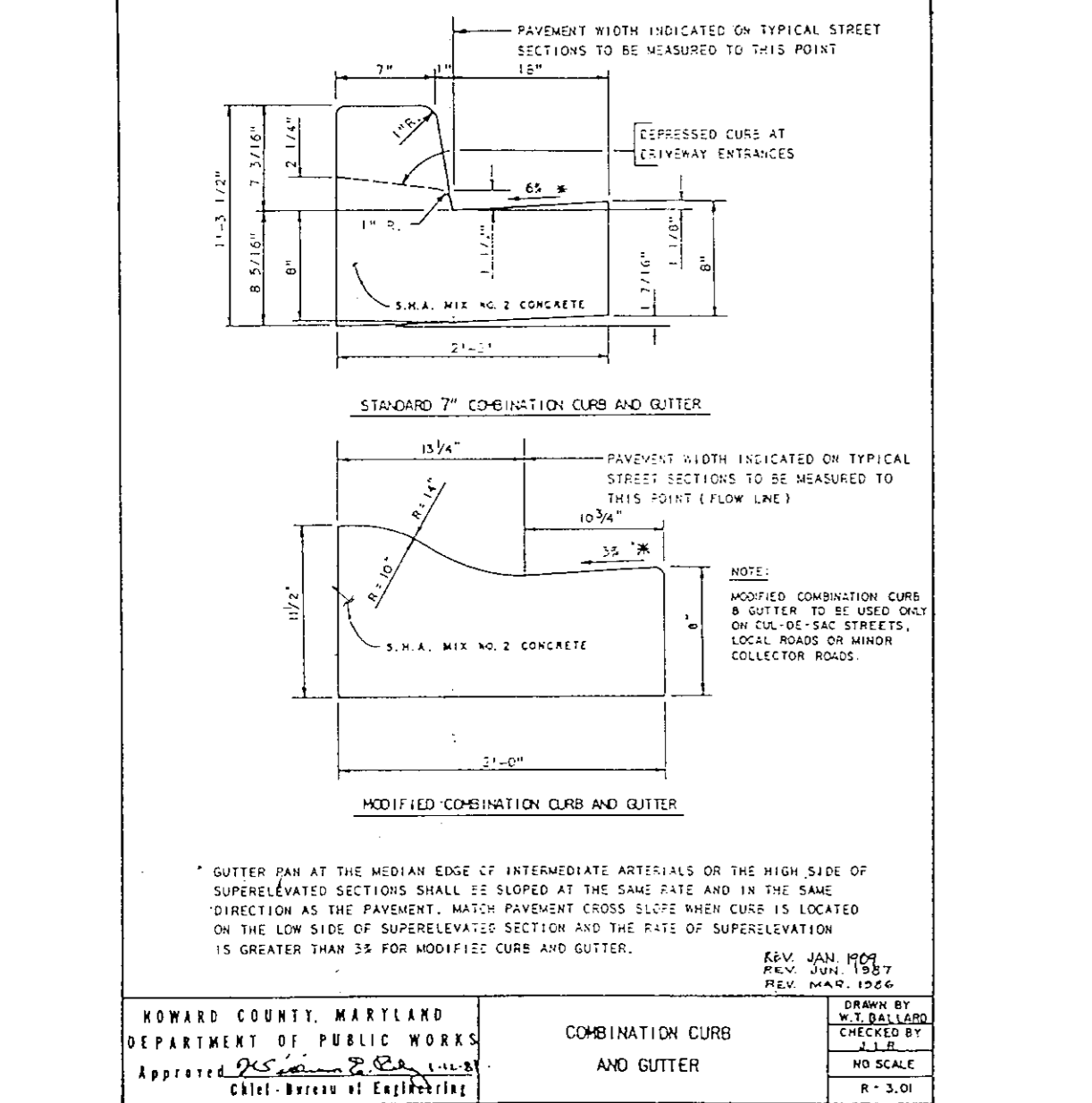
OWNER
 EDWARD W. SCHULTZE
 8016 GREENTREE ROAD
 BETHESDA, MD 20817
 DEVELOPER
 DRIGGS CORPORATION
 8700 ASHWOOD DRIVE
 CAPITOL HEIGHTS, MD 20743

SITE DEVELOPMENT PLAN
DORSEY RUN ASPHALT PLANT
 PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
 PARCELS A & B
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND. TAX MAP 48. PARCEL 65

| SURVEY PHR&A | | | |
|--------------|---------|----------|--|
| BY | CHKD | DATE | |
| BASE | E.R. | | |
| DESIGN | K.D.R. | | |
| DRAWN | R.L.P. | | |
| SCALE | SHEET | FILE NO. | |
| 1" = 50' | 2 OF 10 | 2311-1-0 | |



| SECTION NUMBER | ROAD AND STREET CLASSIFICATION | PAVEMENT MATERIALS | SPALLS AND BASE ALTERNATES |
|----------------|---|---|--|
| P-1 | PARKING BAYS APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS TRAVELWAYS FOR APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS | 1" BIT. CONC. SURFACE 4" BIT. CONC. BASE | 1" BIT. CONC. SURFACE 4" BIT. CONC. BASE OR 3" CRUSHED RAN BASE COURSE ON 4" BASE COURSE WITH STABILIZED AGGREGATE BASE COURSE |
| P-2 | RESIDENTIAL ZONES LOCAL, COLLECTOR, ARTERIAL AND PRIVATE ROADS SERVING LOTS TRAVELWAYS APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH HEAVY TRUCKS (SEE NOTE 1) | 1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE | 1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE OR 3" CRUSHED RAN BASE COURSE ON 4" BASE COURSE WITH STABILIZED AGGREGATE BASE COURSE |
| P-3 | RESIDENTIAL ZONES WINDY AND HOUSE COLLECTORS COMMERCIAL INDUSTRIAL ZONES LOCAL AND COLLECTOR ARTERIAL ALLEY TRAVELWAYS APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH HEAVY TRUCKS (SEE NOTE 1) | 1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE | 1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE OR 3" CRUSHED RAN BASE COURSE ON 4" BASE COURSE WITH STABILIZED AGGREGATE BASE COURSE |
| P-4 | COMMERCIAL INDUSTRIAL ZONES WINDY COLLECTOR | 1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE | 1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE OR 3" CRUSHED RAN BASE COURSE ON 4" BASE COURSE WITH STABILIZED AGGREGATE BASE COURSE |



APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 12-26-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR: Richard Blood
DATE: 12/27/89

APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEM AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature]
DATE: 12/11/89

| NO. | REVISIONS | DATE | CKD |
|-----|-------------------------|----------|-----|
| 1 | ORIGINALS ISSUED TO HQ | 11/17/89 | |
| 2 | REVISED PER HQ COMMENTS | 01/09/90 | |
| 3 | ISSUED TO HQ FOR REVIEW | 01/23/89 | |

PHR&A
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
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DUNSTON, VA.
LEESBURG, VA.
HARRISVILLE, MD.
VIRGINIA BEACH, VA.

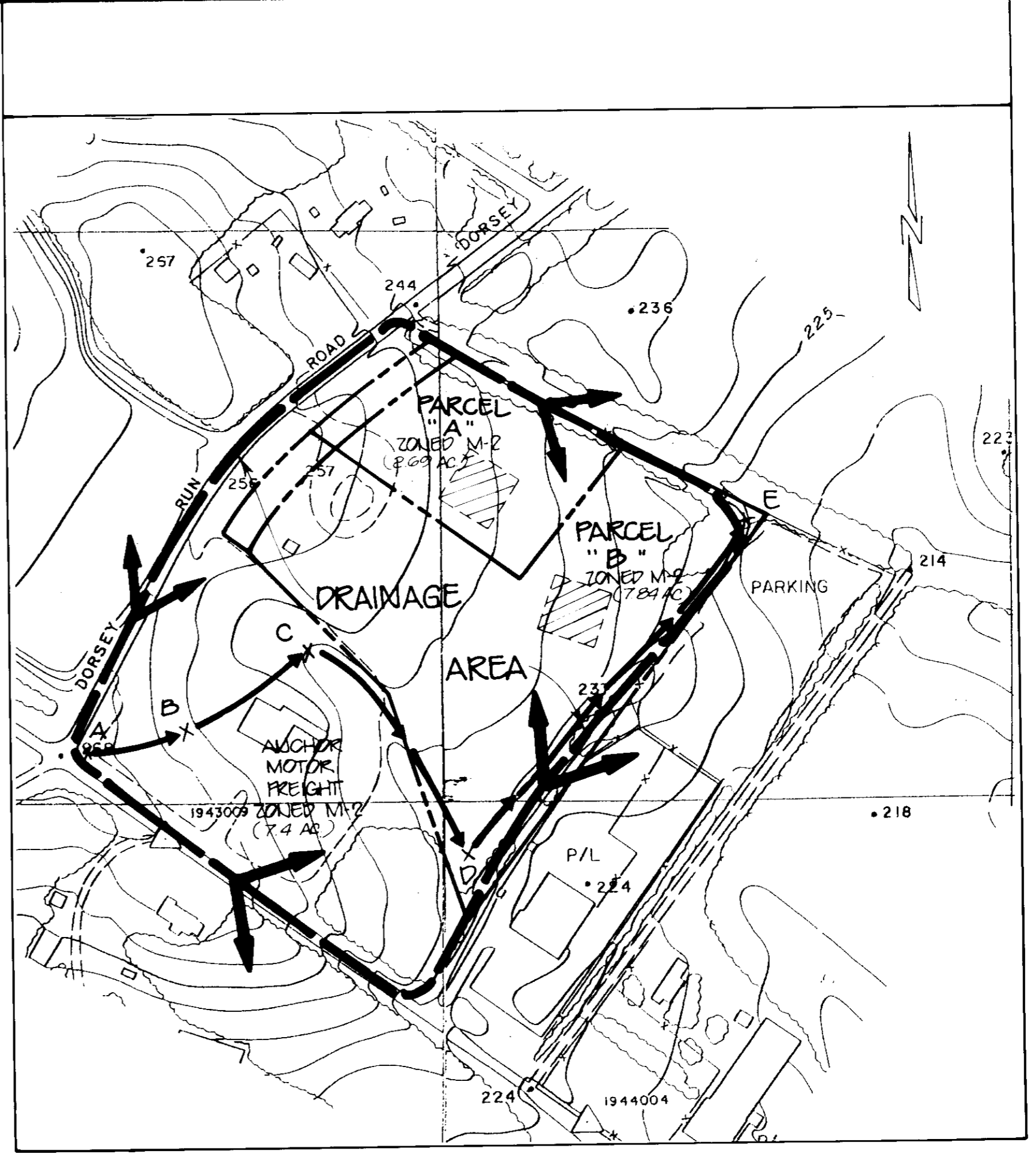
OWNER
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8016 GREENTREE ROAD
BETHESDA, MD 20817

DEVELOPER
DRIGGS CORPORATION
8700 ASHWOOD DRIVE
CAPITOL HEIGHTS, MD 20743

SDP DETAILS & STORM DRAIN PROFILE
DORSEY RUN ASPHALT PLANT
PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
PARCELS A & B
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65
A.C. BUILT 12/20/91

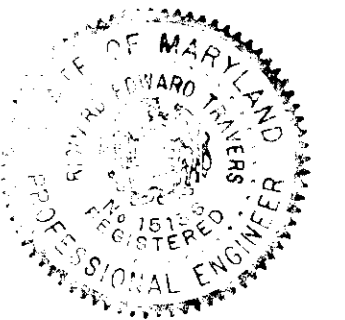
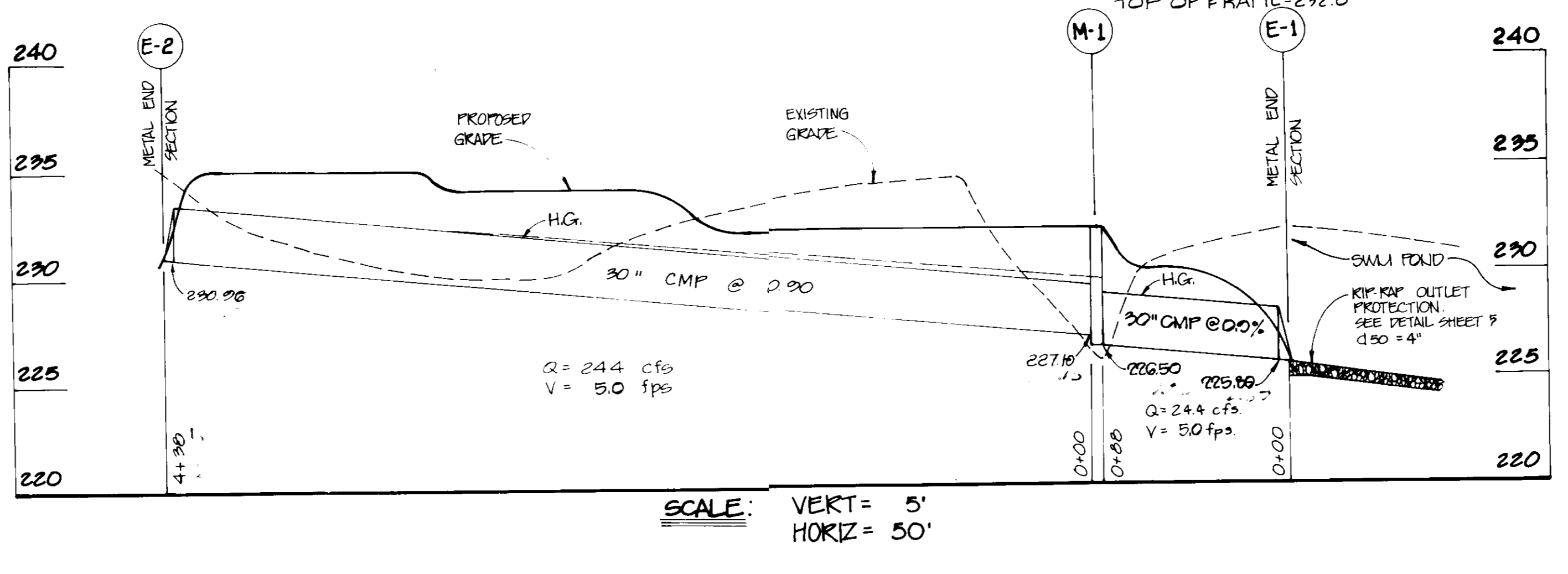
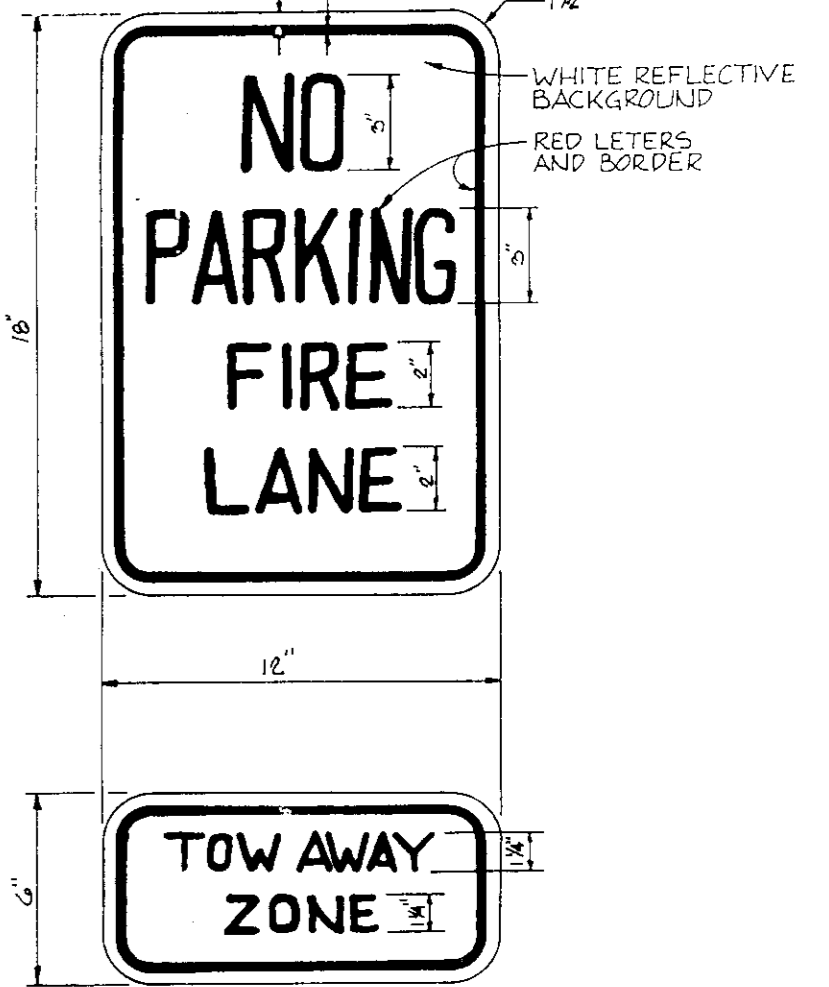
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| 3 | OF 10 | 23111-0 |

SDP-90-28

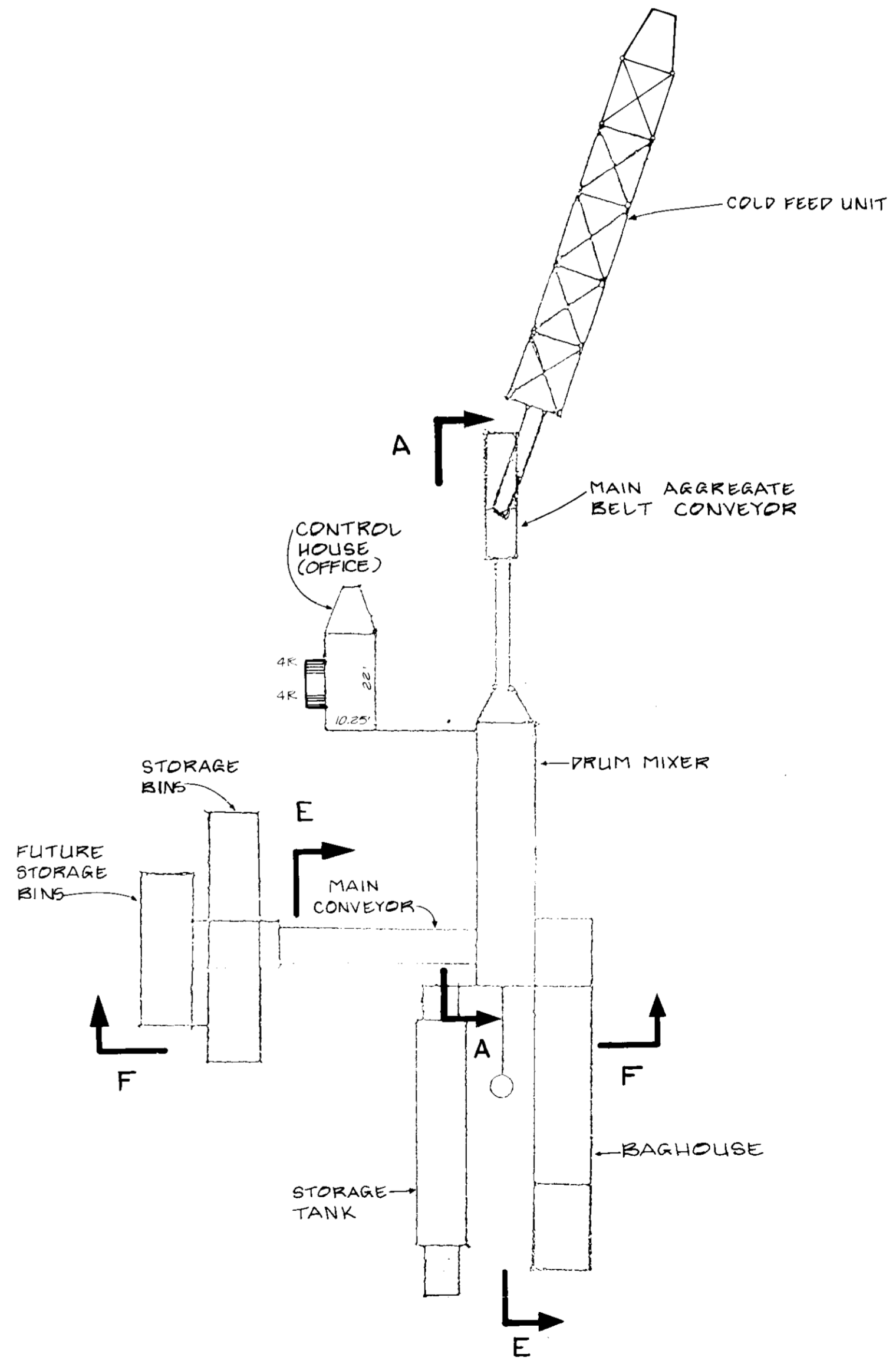
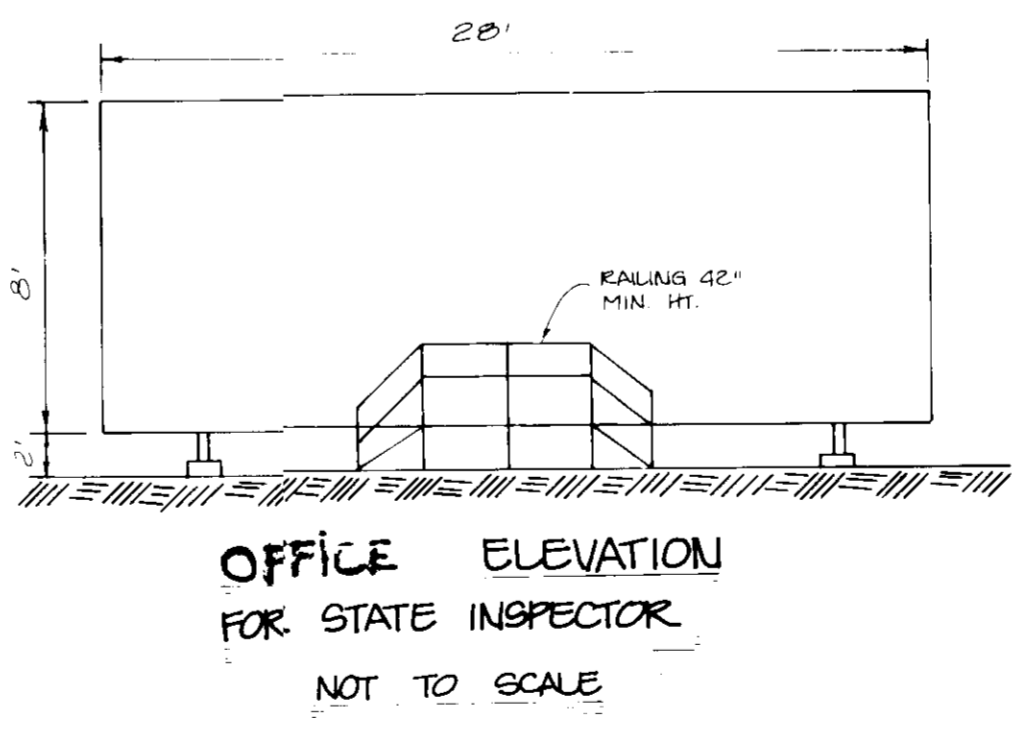
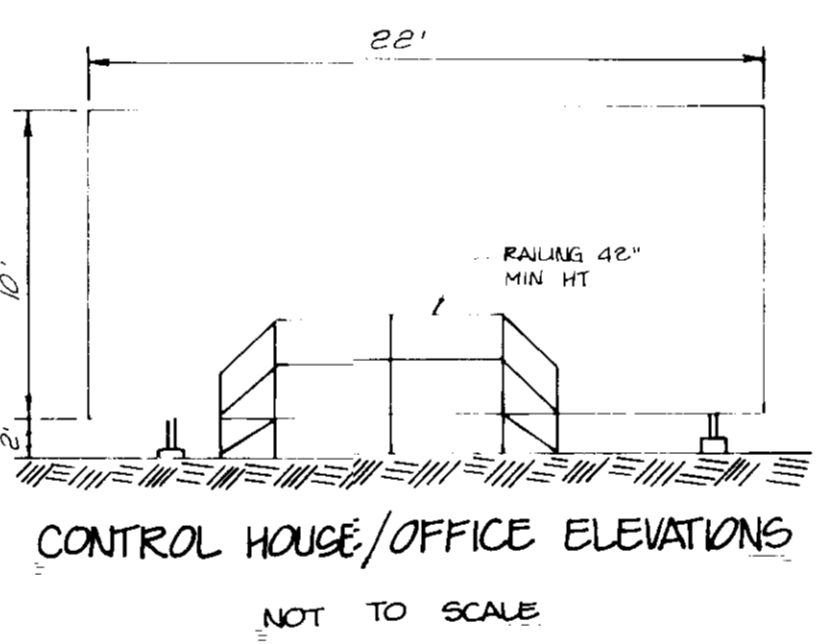
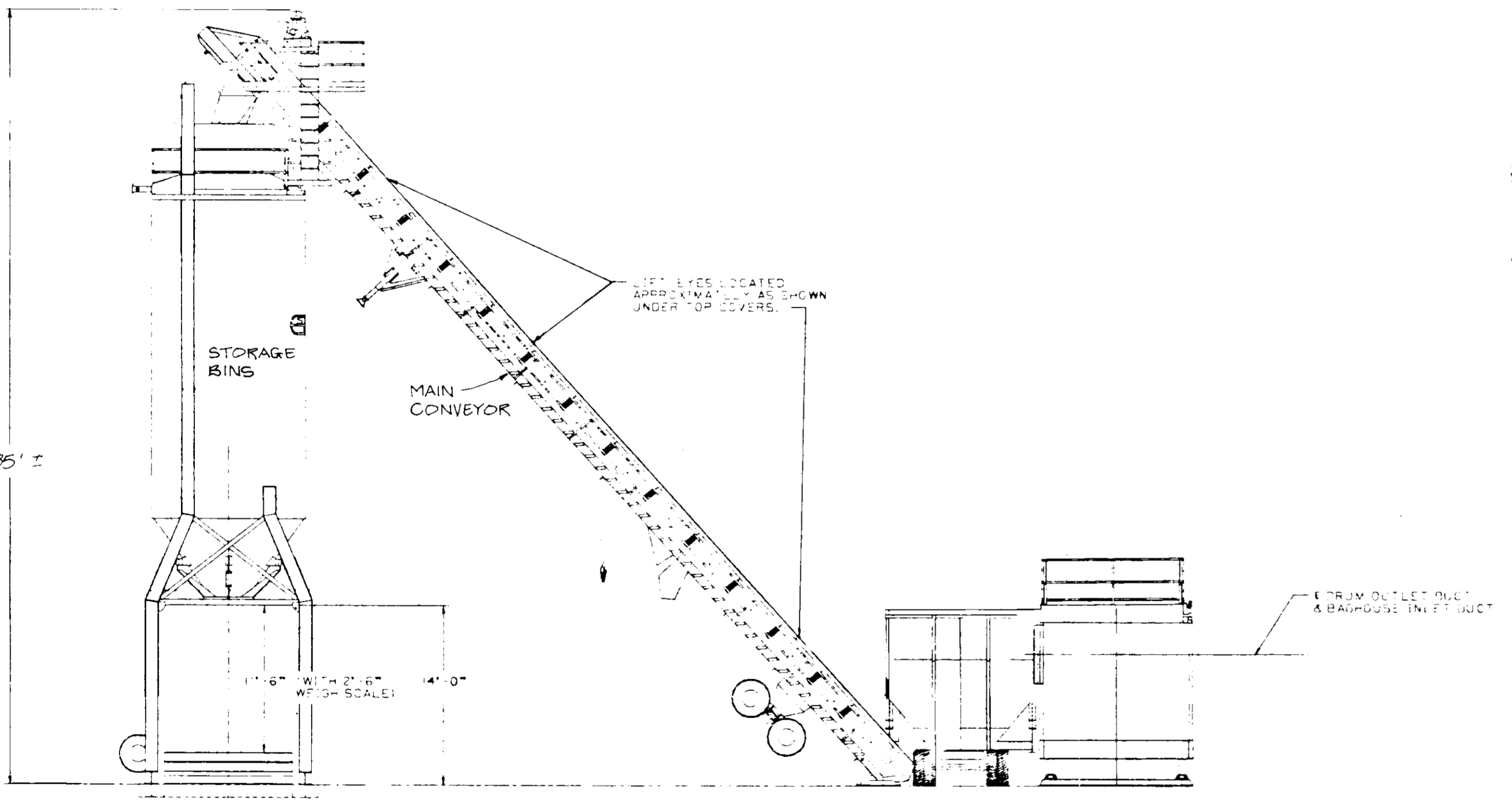
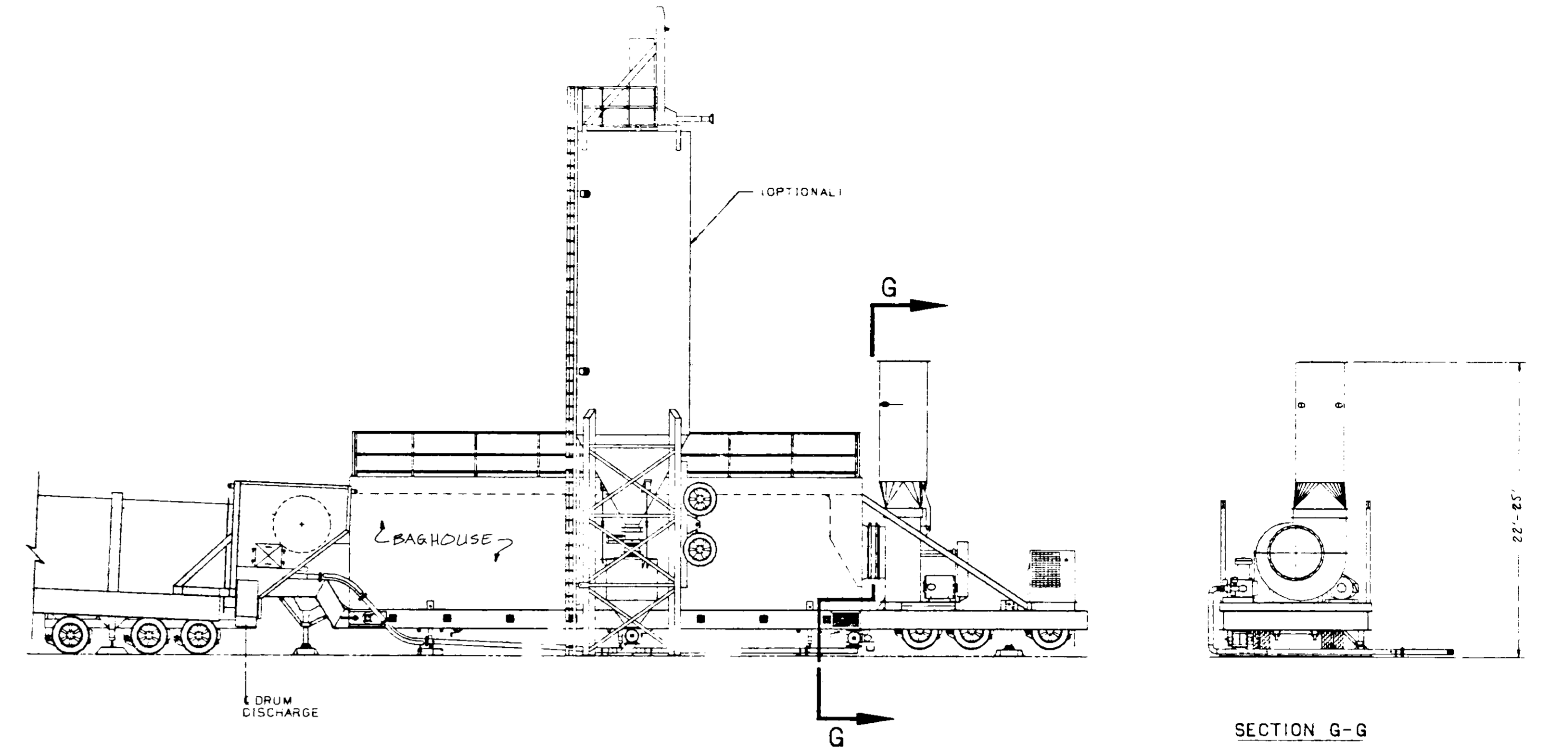
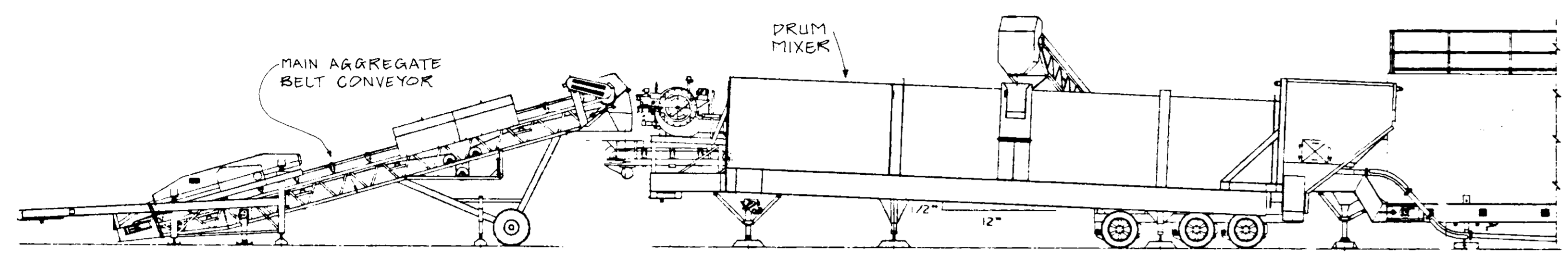


DRAINAGE AREA MAP
SCALE: 1" = 200'

- A. Specifications
- Fire Lane Signs (Exhibit 5)
 - Size - 12" wide x 18" high
Alternate when specified: 24" wide x 30" high
 - Thickness - .080"
 - Material - Aluminum
 - Color - Reflective red letters and border on a reflective white background
 - Lettering - NO PARKING (3")
FIRE LANE (2")
DIRECTIONAL ARROW (1 1/2")
 - Tow Away Zone Signs (Exhibit 6)
 - Size - 12" wide x 6" high
 - Material type and thickness to be same as Fire Lane sign
 - Color - Red letters and border on reflective white background
 - Lettering - 2 line text using 1 inch letters
- NOTE: The use of international symbol type signs is not authorized.



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *[Signature]* DATE 12-26-89
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 DIRECTOR *[Signature]* DATE 1/4/90
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEM AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *[Signature]* DATE 12/21/89
 CHIEF BUREAU OF ENGINEERING *[Signature]* DATE 12/21/89



| NO. | REVISIONS | DATE | CKD |
|-----|-------------------------------------|----------|-----|
| 1 | ORIGINALS ISSUED TO HO. CO. | 11/17/89 | |
| 2 | REVISED PER HO. CO. REVIEW COMMENTS | 2/22/90 | |
| 3 | ISSUED TO HO. CO. FOR REVIEW | 2/2/89 | |

PHR&A
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
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 7609 STANDISH PLACE
 ROCKVILLE, MARYLAND 20855
 301-766-2200 FAX 301-766-2444

OFFICES:
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 BRIDGEWATER, VA.,
 CHANTILLY, VA.,
 LEESBURG, VA.,
 ROCKVILLE, MD.,
 VIRGINIA BEACH, VA.

[Signature]

OWNER
 EDWARD W. SCHULTZE
 8016 GREENTREE ROAD
 BETHESDA, MD 20817

DEVELOPER
 DRIGGS CORPORATION
 8700 ASHWOOD DRIVE
 CAPITOL HEIGHTS, MD 20743

ASPHALT PLANT SECTION
DORSEY RUN ASPHALT PLANT
 PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
 PARCELS A & B
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65

| SCALE | SHEET | FILE NO. |
|-------|---------|----------|
| NTS | 4 OF 10 | 2311-1-0 |

SDP-90-28

SOIL CONSERVATION SERVICE
MARYLAND
CONSTRUCTION SPECIFICATIONS
FOR
PONDS

These specifications are appropriate to ponds within the scope of the Standard for practice 378.

I. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Compaction

The movement of the hauling 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 tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber-tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet as shown on the plans. The side slopes of the trench shall be as shown on the drawings. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted with hand tampers or other compaction equipment. The material shall be completely all spaces under and adjacent to the pipe. After the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

- Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Nexon, Plasti-Cote, Blue-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminized Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-791 with watertight coupling bands or flanges.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-156 or M-211 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, and end sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.
- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe

- Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. An approved equivalent is AWWA Specification C-301.
- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10X of its outside diameter with a minimum thickness of 4" or as shown on the drawings.
- Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire length of the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

C. CONCRETE

1. Materials

- Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.
- Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.
- Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.
- Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.
- Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

- Design Mix - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/2 to 6 U.S. Gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.
- Mixing - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed.

Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.

- Reinforcing Steel - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.
- Consolidating - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

- Finishing - Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.
- Protection and Curing - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.
- Placing Temperature - Concrete may not be placed at temperatures below 37° F with the temperature falling, or 34° with the temperature rising.

VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VII. EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

U.S. Department of Agriculture
Soil Conservation Service
POND SUMMARY SHEET

MD-ENG-14
(Rev. 10-87)
Reference:
SCS-90-17A

Maryland Coordinates
East 859,573
North 473,502
County HOWARD

OWNER INFORMATION
Name: PRINCEMONT CONSTRUCTION CORPORATION
Address: 2700 ASHWOOD DRIVE
CITY: CAPITOL HEIGHTS
State: MD Zip: 20743

TYPE OF POND: Excavated Embankment Both

Drainage Area: 17.9 acres
Surface Area: 0.72 acres
Normal Depth: 0.2 ft.

HAZARD CLASS: A B C

PURPOSE OF POND (check all that apply)
 Stormwater Mgmt. - Wet Water Supply/Irrigation
 Stormwater Mgmt. - Dry Livestock Wildlife/Plant
 Infiltration Flood Control Fire Control
 Sediment Control Recreation Other

EMBANKMENT
Top Elev: 230 ft. Max Fill Height: 0 ft.
Normal Pool Elev: 227 ft. Side Slopes: U.S. 4:1
Top Width: 12 ft. D.S. 3:1

PRINCIPAL SPILLWAY
Diameter: 20 inches Capacity: 25 CFS
W/BCMP Alum Rip PVC Other (Specify)

EMERGENCY SPILLWAY
Design Storm Frequency: 100 yr
Crest Elev: 220 ft. Capacity: 25 CFS
Bottom Width: 20 ft. Max Water Elev: 220 ft.
Side Slopes: 2:1 Velocity: 4.0 cfs/ft
Spillway Protection: Grass Riprap Gabions Other

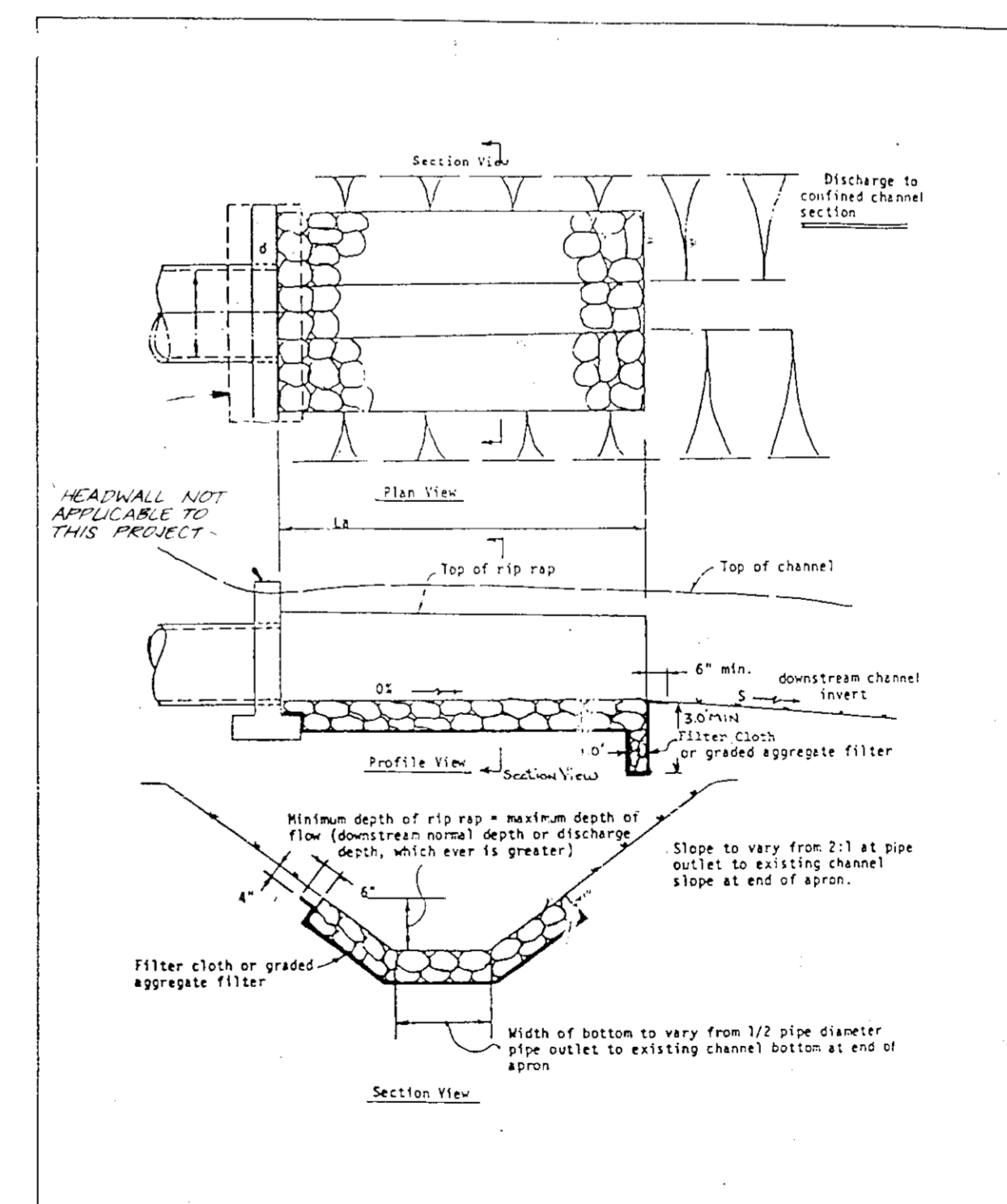
DISTANCES BELOW POND TO
Property Line: 50 ft.
Public Road: 1000 ft. (APPROXIMATE)

Soil Conservation District (Name) HOWARD COUNTY
Soil District Conservationist (Sign) _____
Date _____

Check-Off List to be Placed on
Stormwater Management
Pond Plans

| Task | Developer/Engineer | Inspector |
|---|--------------------|-----------|
| Initials | Date | Initials |
| 1. Pre-construction meeting.* | | |
| 2. Sediment control.* (See sediment control plan for details.) | | |
| 3. Clearing and grubbing. | | |
| 4. Dewatering (stream diversion).* | | |
| 5. Core trench excavation and dewatering.* | | |
| 6. Core trench backfill. | | |
| 7. Construction of principal spillway.* a. Pipe assembled in place on acceptable subgrade.* b. Anti-seep collars formed with re-bar placed.* c. Base forming subgrade, form and re-bar.* | | |
| 8. Backfilling of principal spillway.* | | |
| 9. Construction of embankment. | | |
| 10. Construction of emergency spillway. | | |
| 11. Channelization work and outlet protection.* | | |
| 12. Vegetative stabilization. | | |
| 13. Submit record drawing.* | | |
| 14. Final inspection. | | |

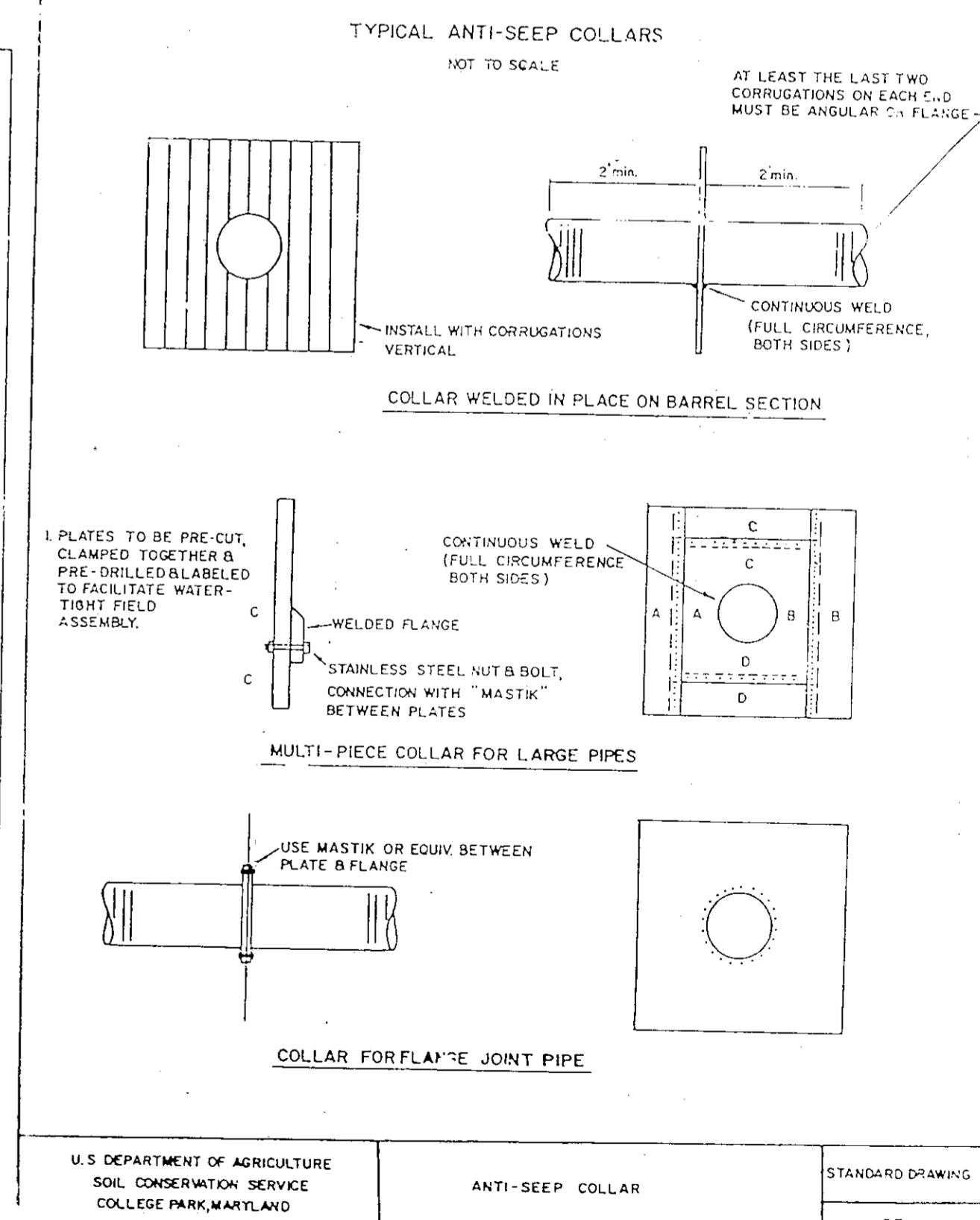
NOTE: See Construction Specifications for detailed requirements.
*Mandatory notification/approval of Inspector prior to proceeding with next stage.



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

RIPRAP OUTLET
PROTECTION-II

STANDARD DRAWING
ROP-II



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

ANTI-SEEP COLLAR

STANDARD DRAWING
SB

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] DATE: 12-26-89
APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING
[Signature] DATE: 1/4/90
[Signature] DATE: 12/27/89
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEM AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 12/21/89
[Signature] DATE: 11-22-89
CHIEF BUREAU OF ENGINEERING

SEDIMENT CONTROL & POND CONSTRUCTION

() 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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will 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."
[Signature] DATE: 11/21/89

() 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 must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
[Signature] DATE: 1/2/89
Signature of Engineer
Print name below signature

() 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.
[Signature] DATE: 12/5/89
Soil Conservation District

() These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
[Signature] DATE: 12/5/89
Howard Soil Conservation District

| NO. | REVISIONS | DATE | CHKD |
|-----|-------------------------------------|----------|------|
| 3 | ORIGINALS ISSUED TO HQ 02 | 11/11/89 | |
| 2 | REVISION PER HQ 02. REVIEW COMMENTS | 07/20/89 | |
| 1 | ISSUED TO HQ FOR REVIEW | 03/24/89 | |

PHR&A
ENGINEERS - SURVEYORS - PLANNERS - LANDSCAPE ARCHITECTS
PATTON, HARRIS, RUST & ASSOCIATES, PC
7609 STAMFORD PLACE
ROCKVILLE, MARYLAND 20856

OFFICES:
BETHESDA, VA.
BROOKWATER, VA.
CHANTILLY, VA.
LEESBURG, VA.
ROCKVILLE, MD.
VIRGINIA BEACH, VA.

OWNER
EDWARD W. SCHULTZE
8016 GREENTREE ROAD
BETHESDA, MD 20817

DEVELOPER
DRIGGS CORPORATION
8700 ASHWOOD DRIVE
CAPITOL HEIGHTS, MD 20743

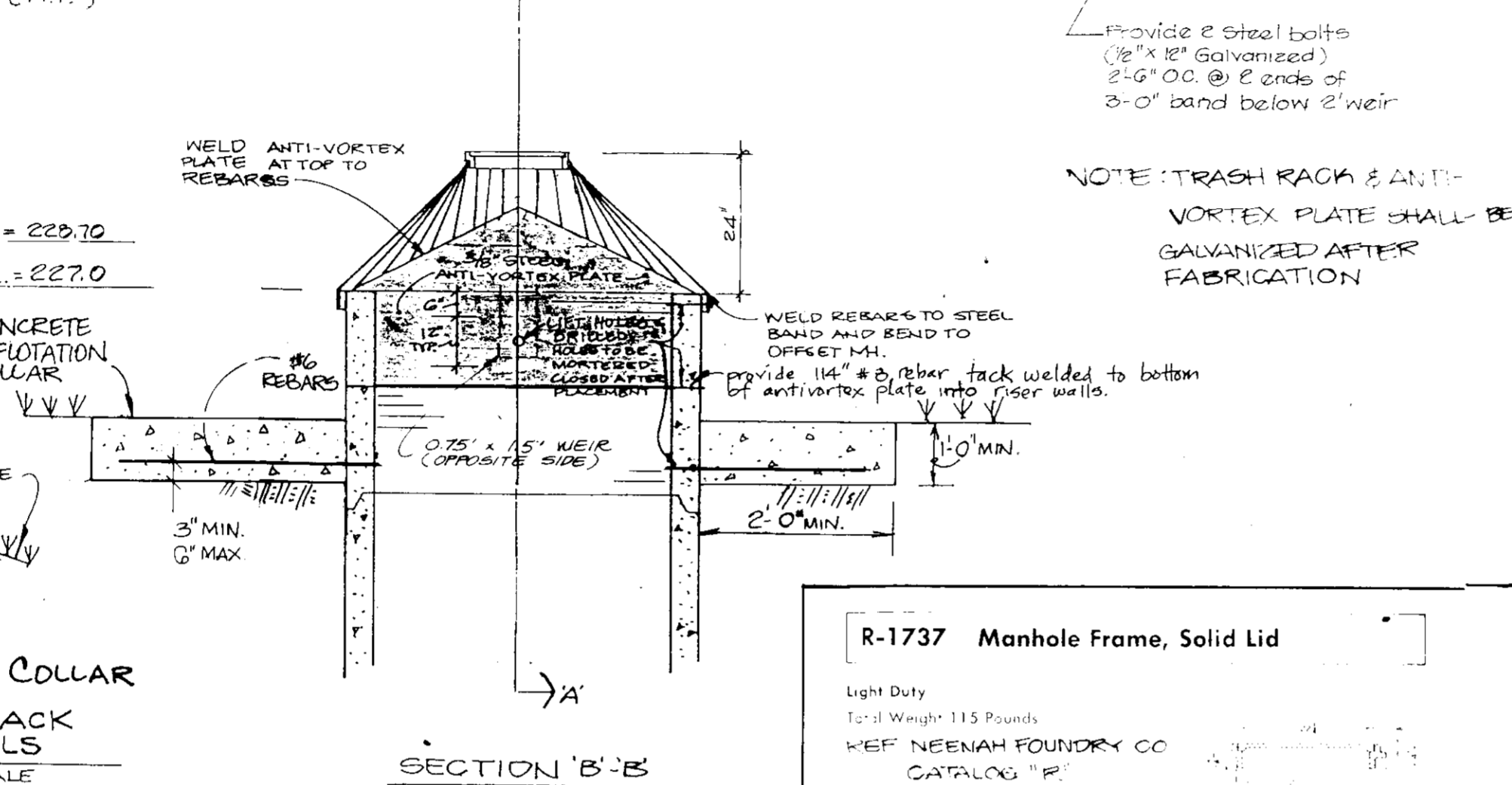
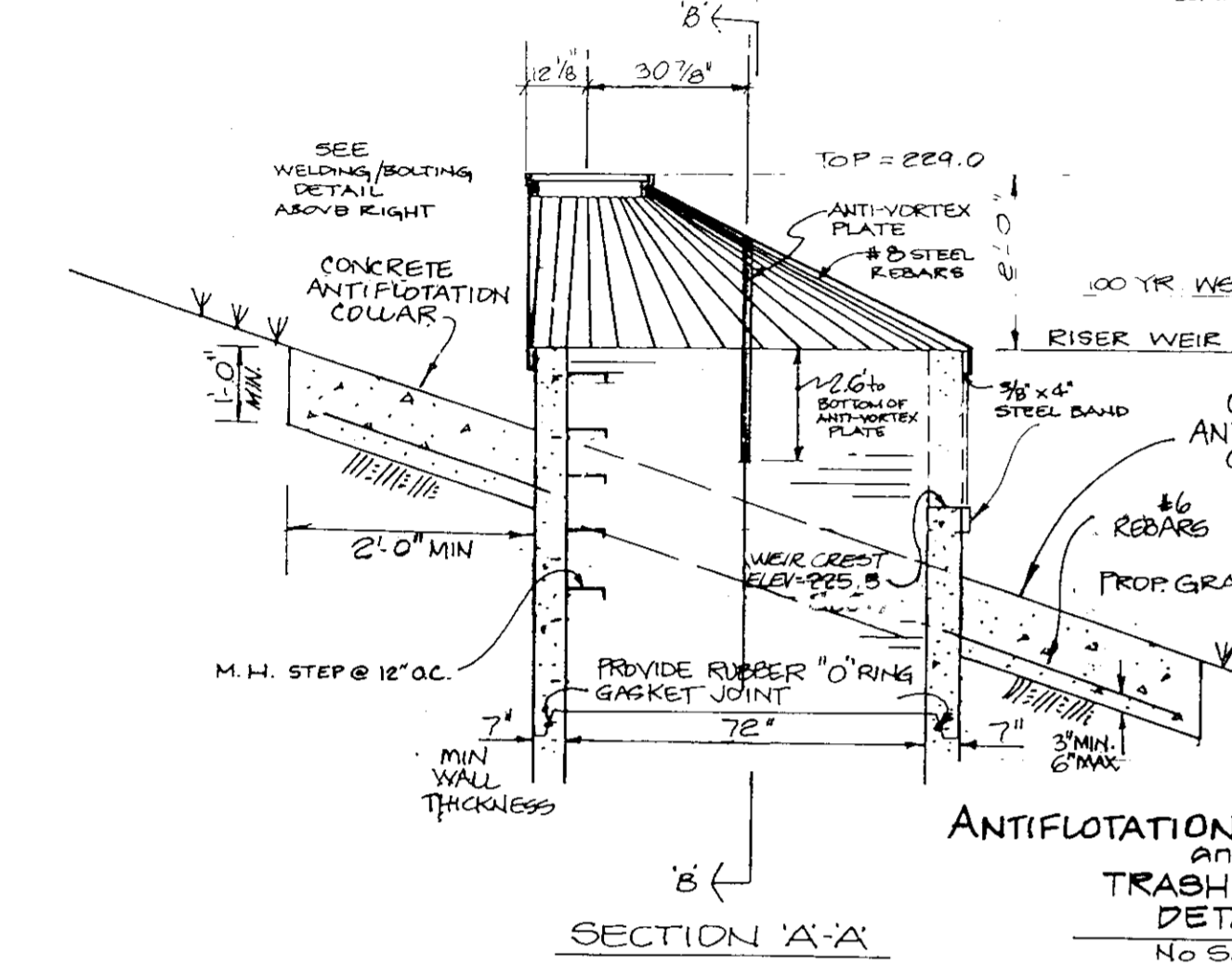
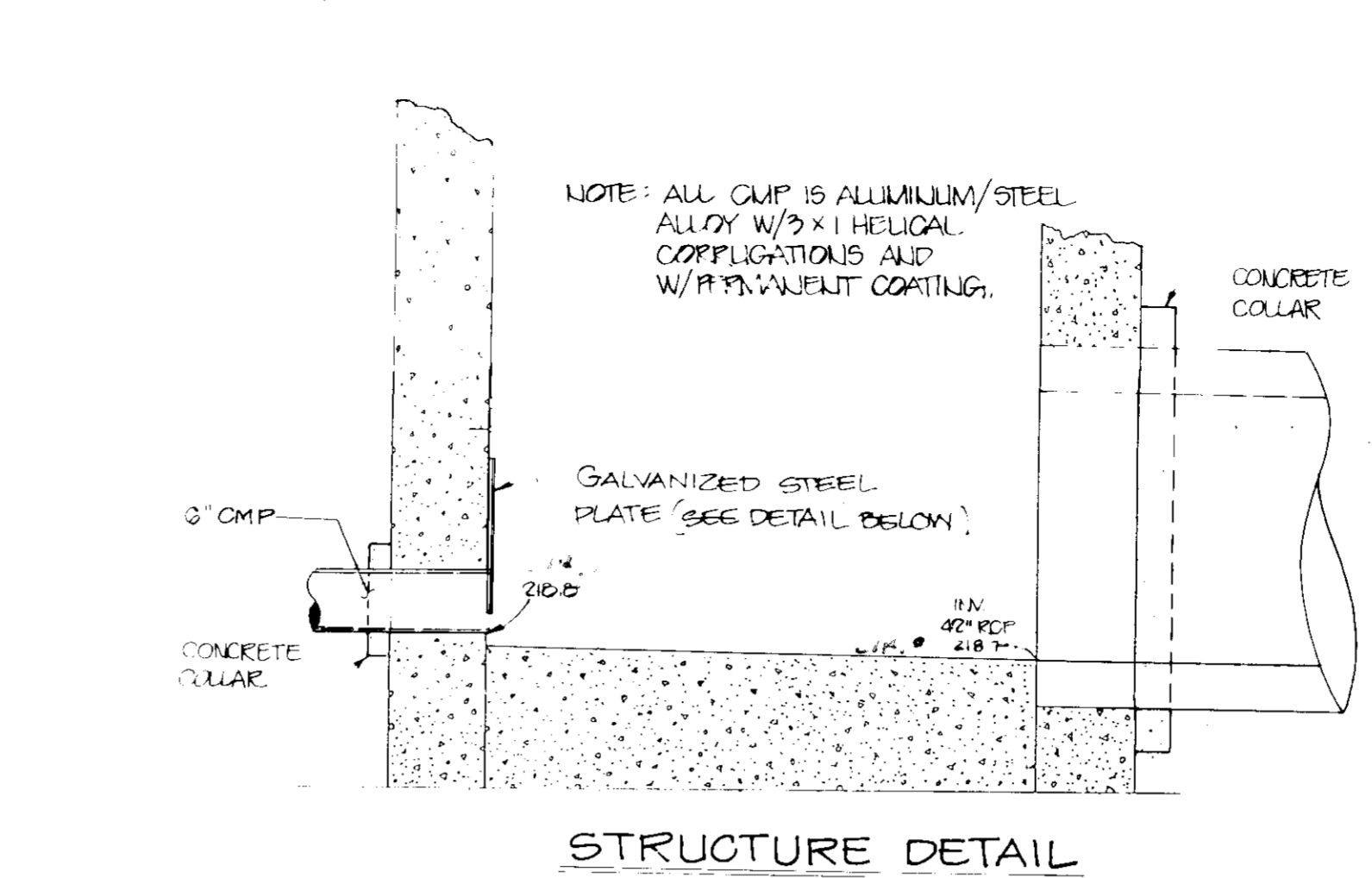
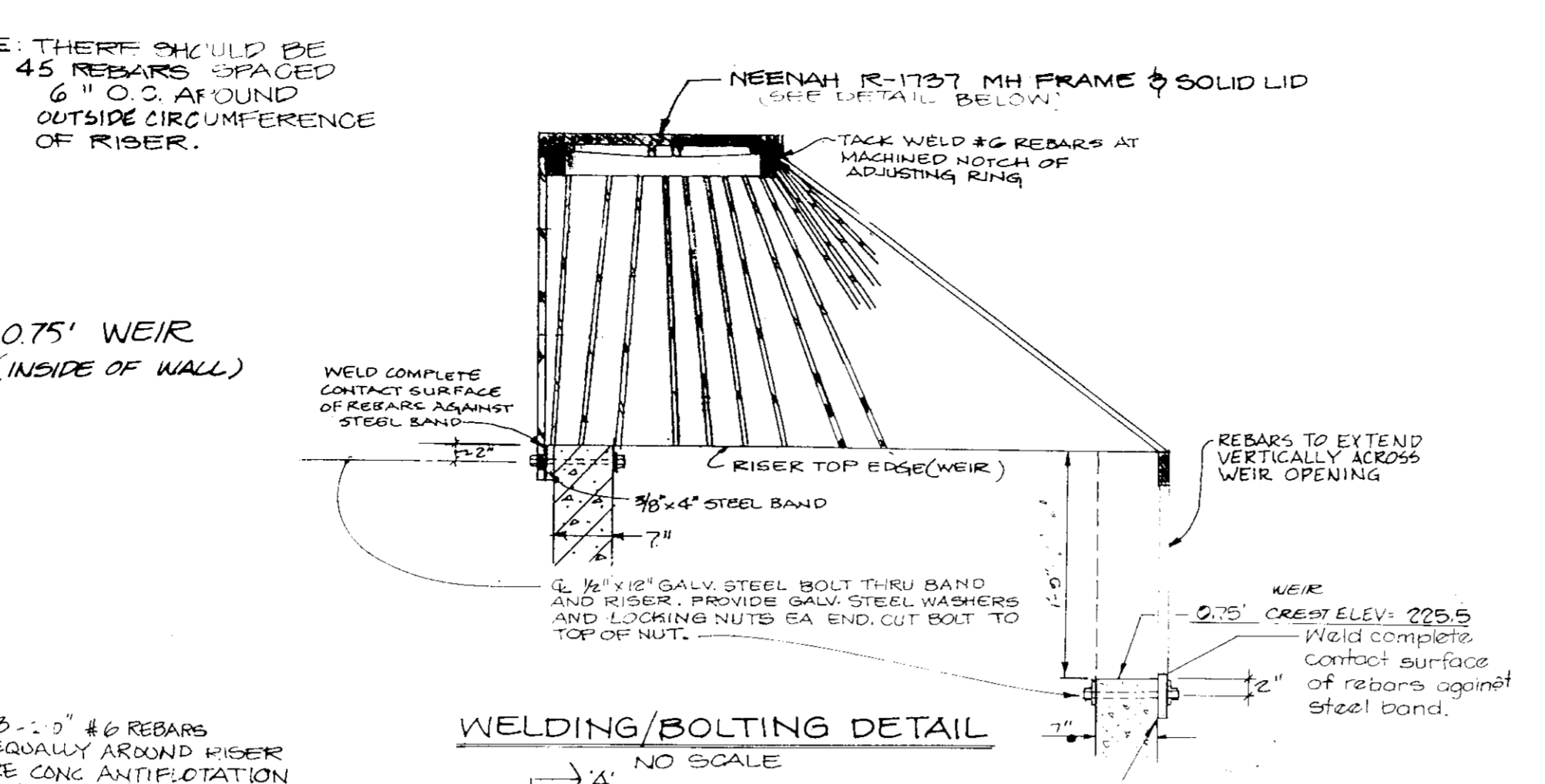
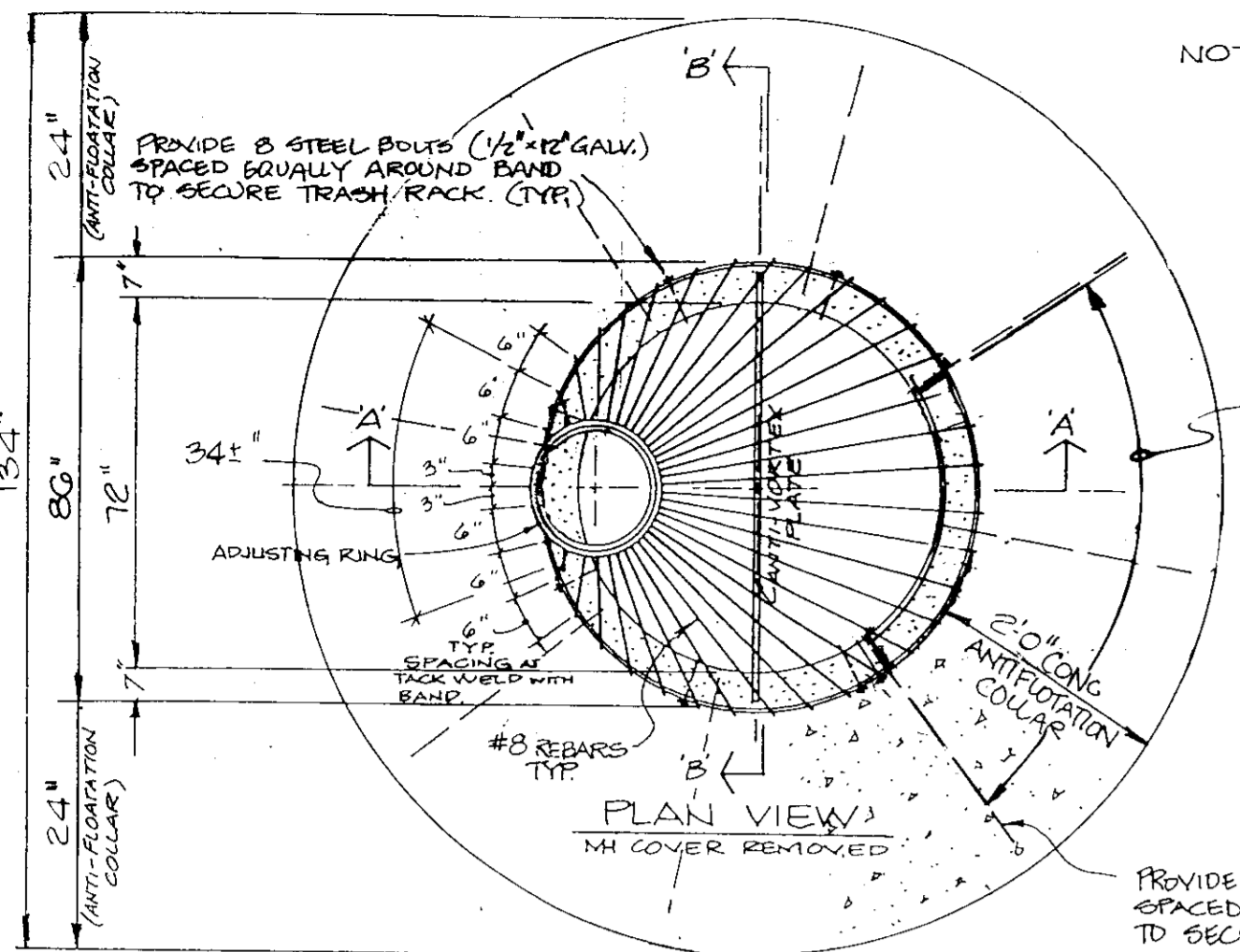
STORMWATER MANAGEMENT NOTES & DETAILS
DORSEY RUN ASPHALT PLANT
PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
PARCELS A & B
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65

SURVEY: P.H.R. 4A

| BASE | BY | CHKD | DATE |
|--------|------|------|------|
| DESIGN | FDU | | |
| DRAWN | E.K. | | |

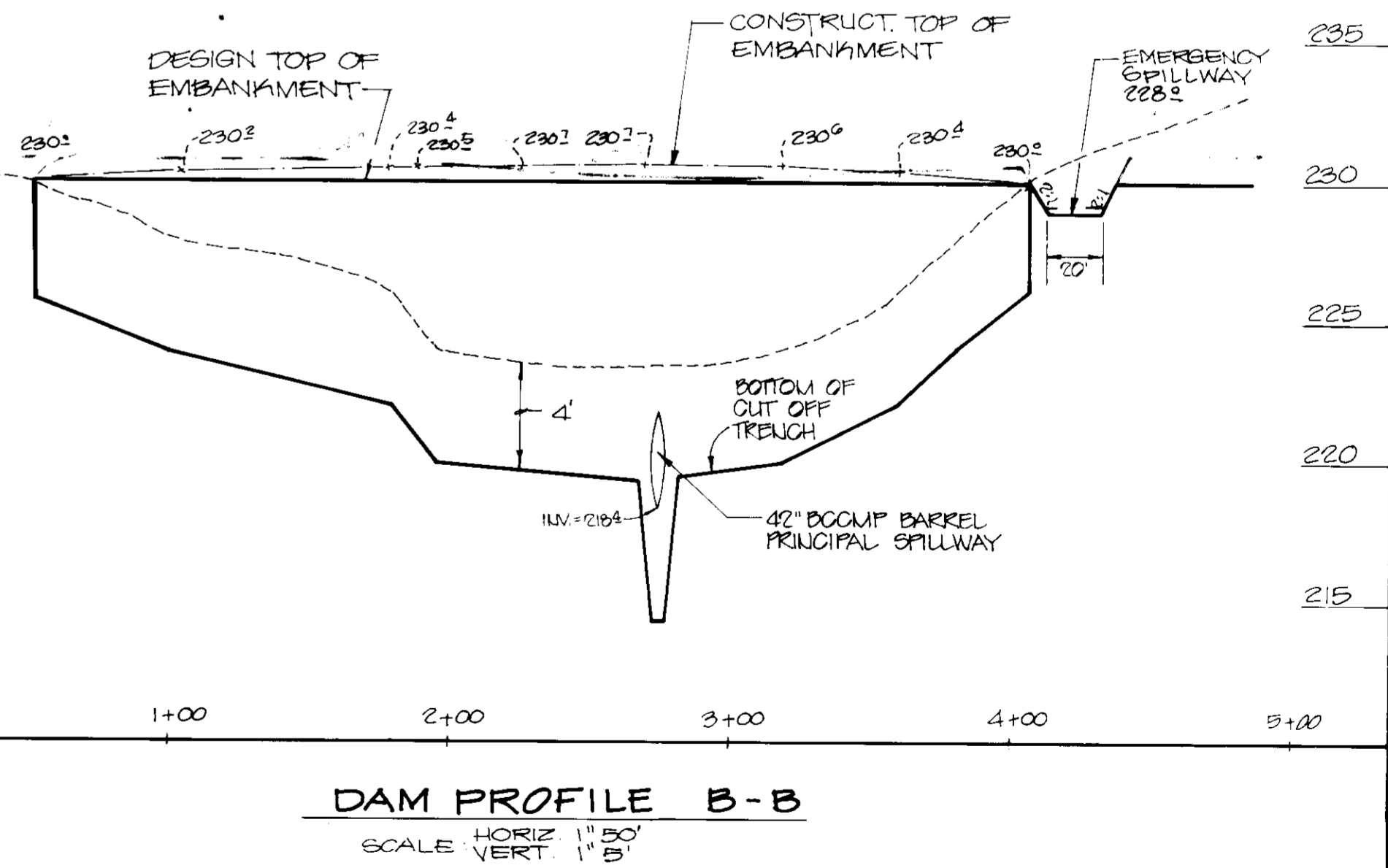
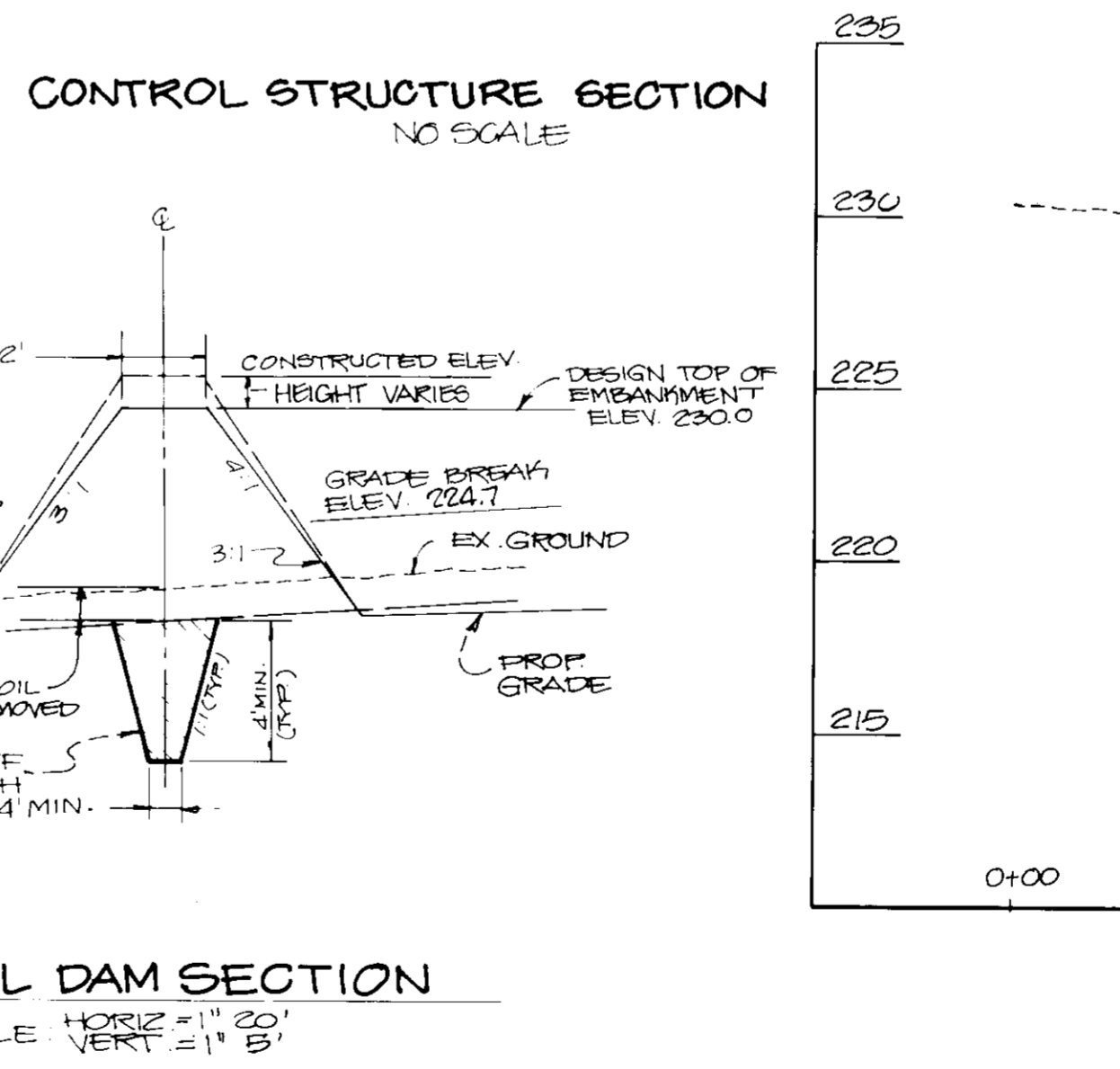
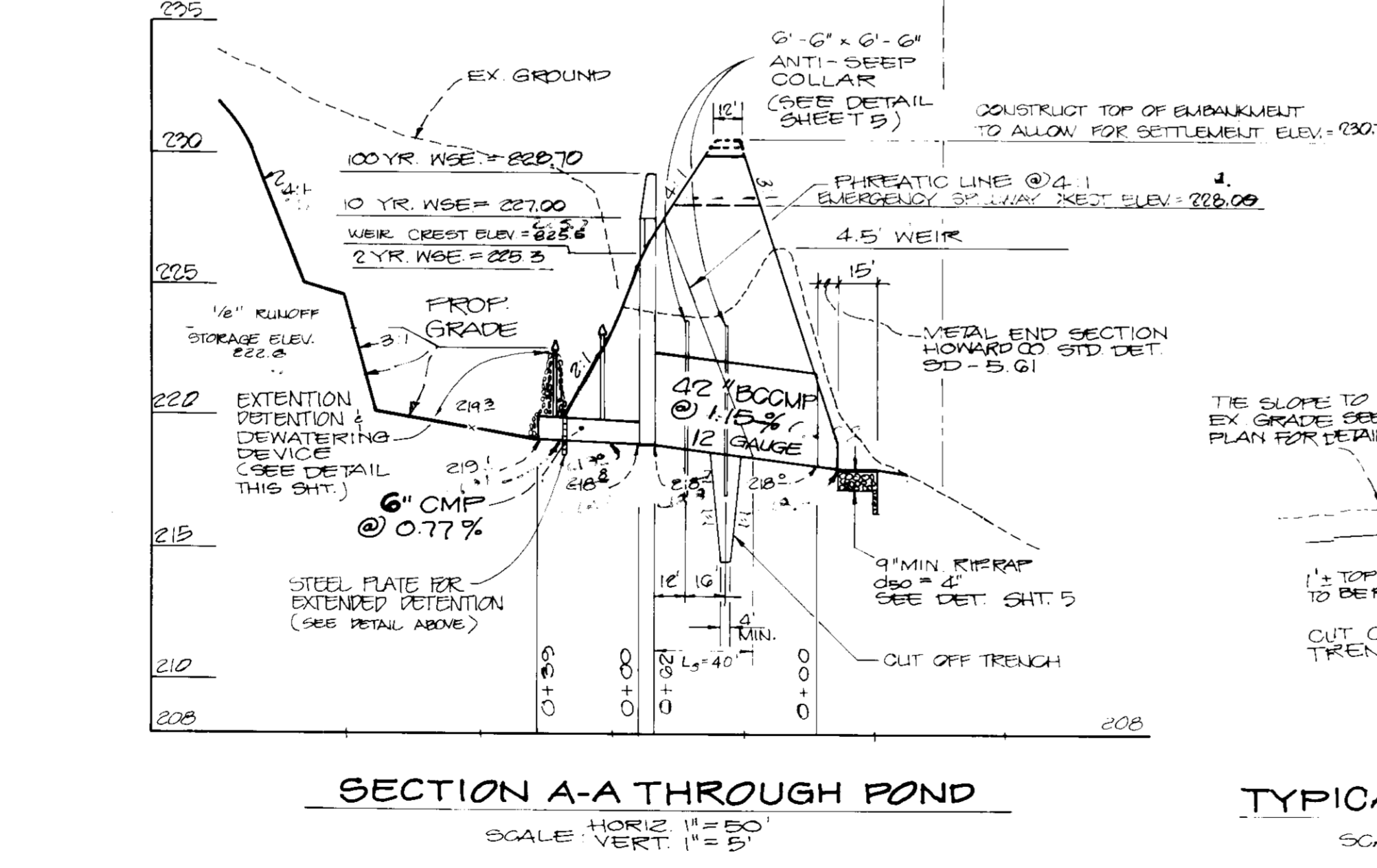
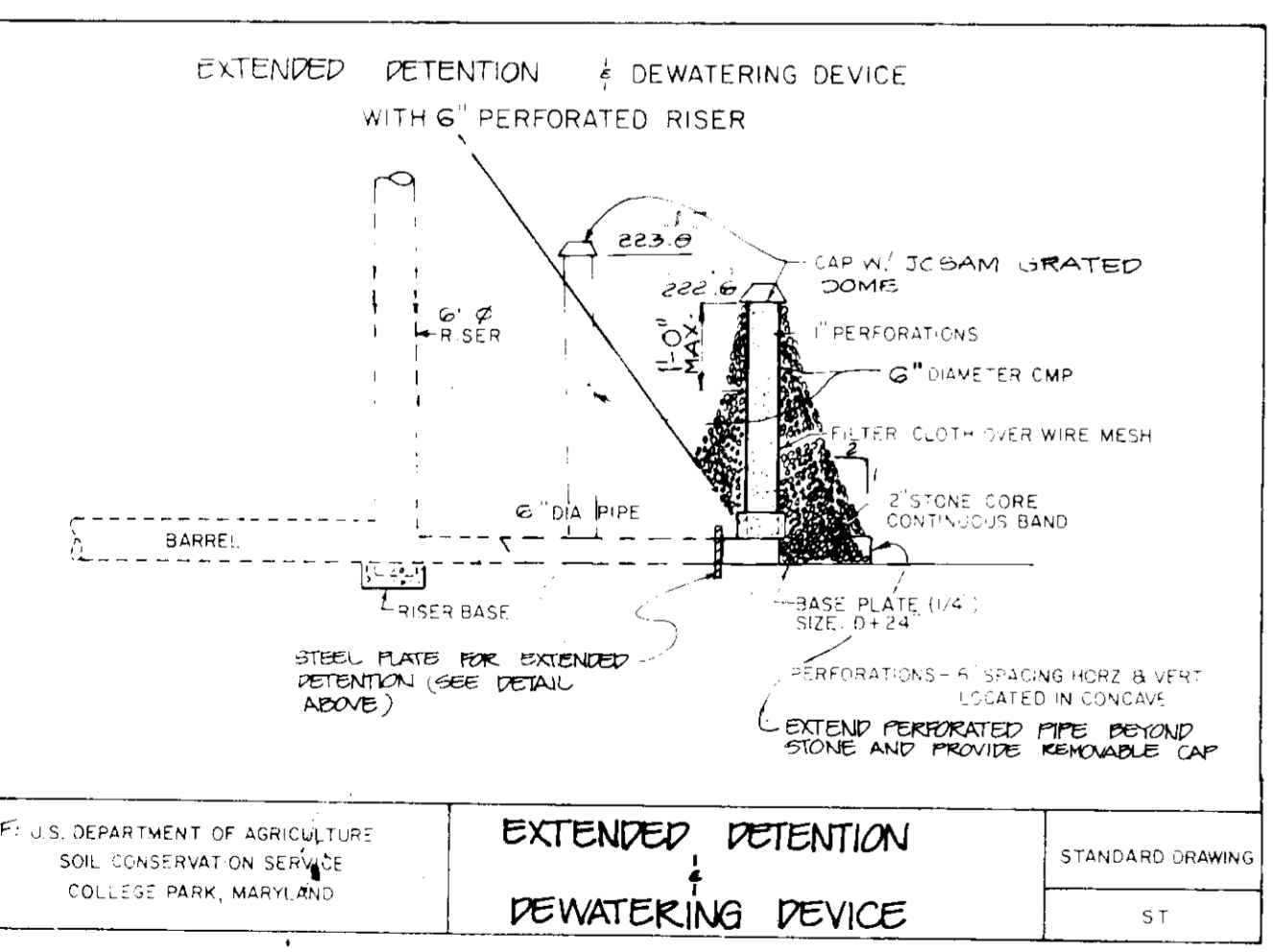
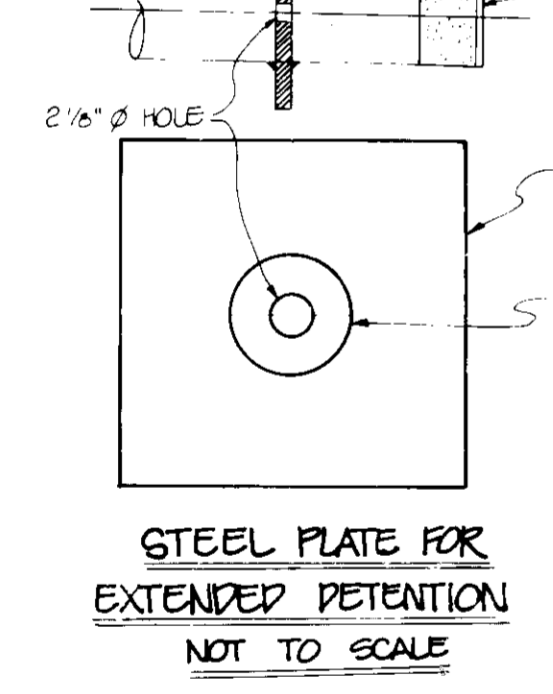
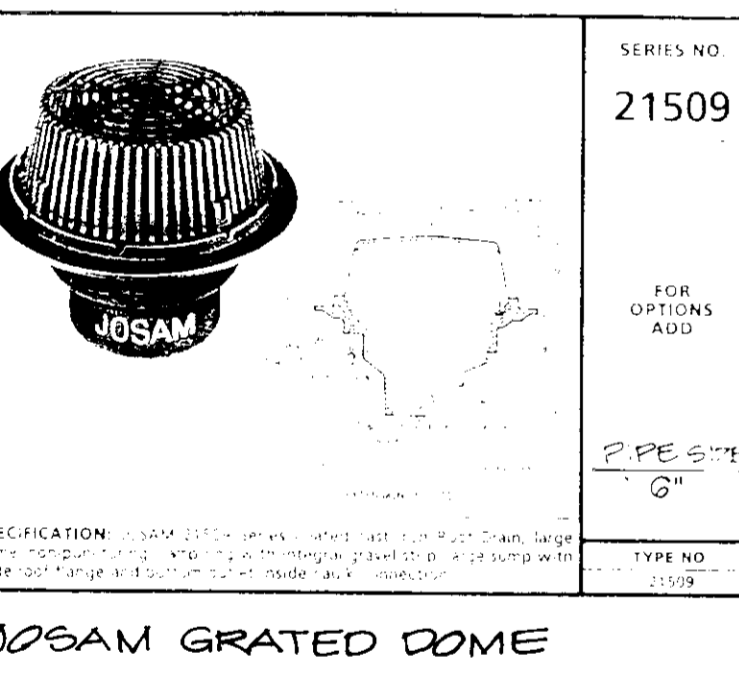
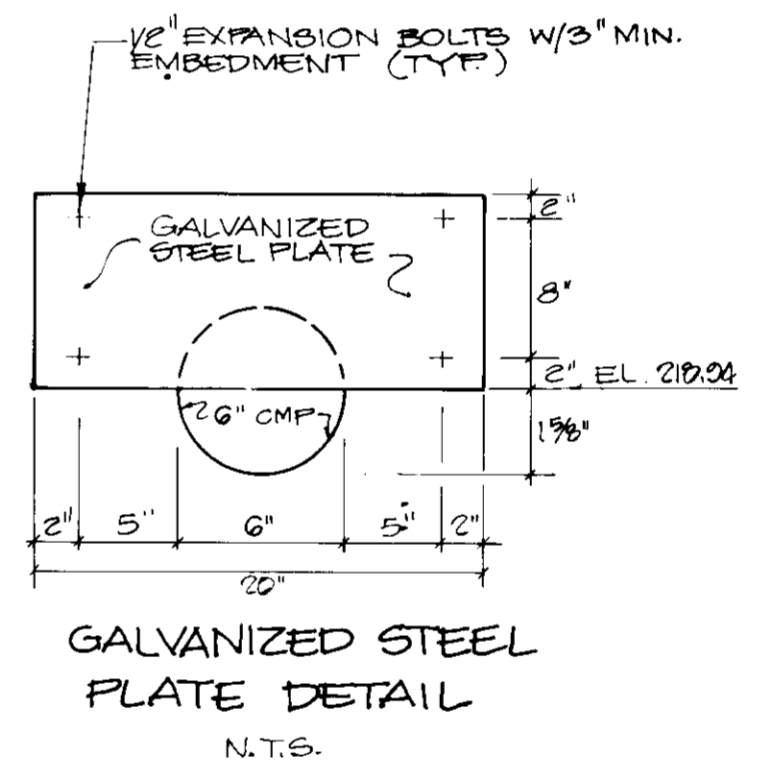
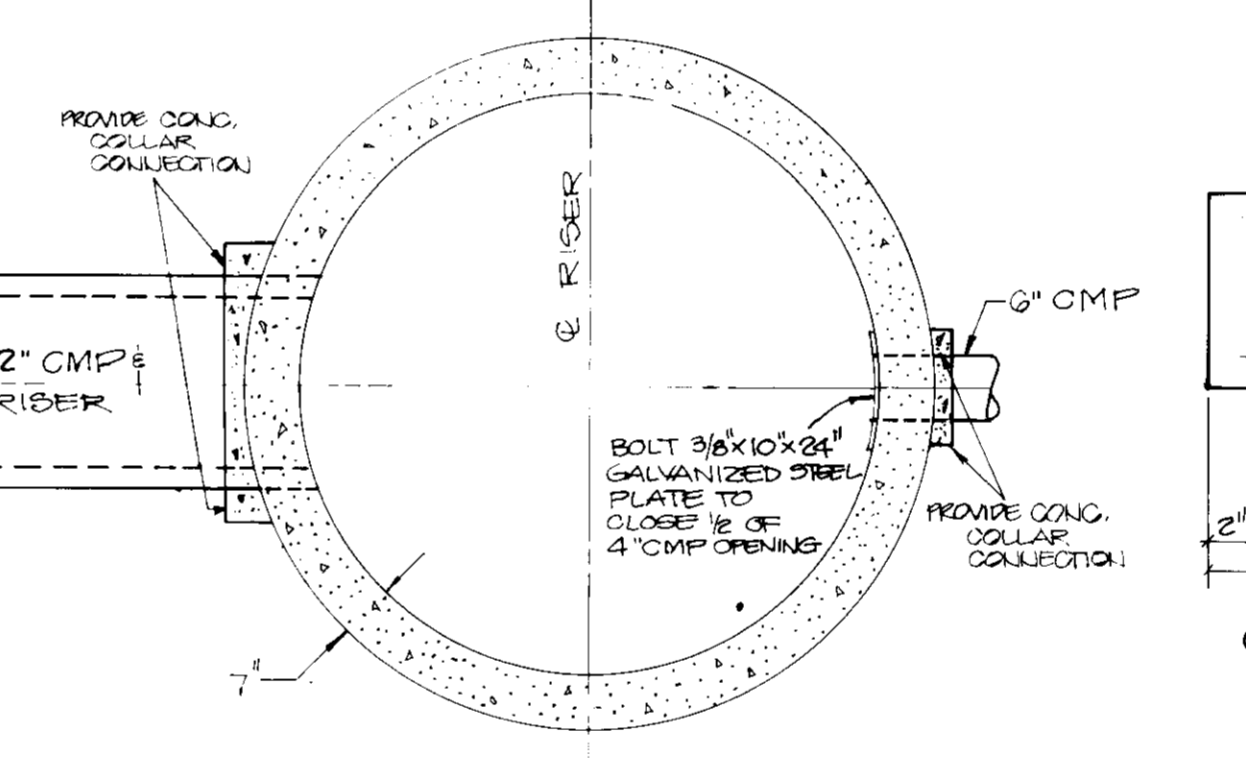
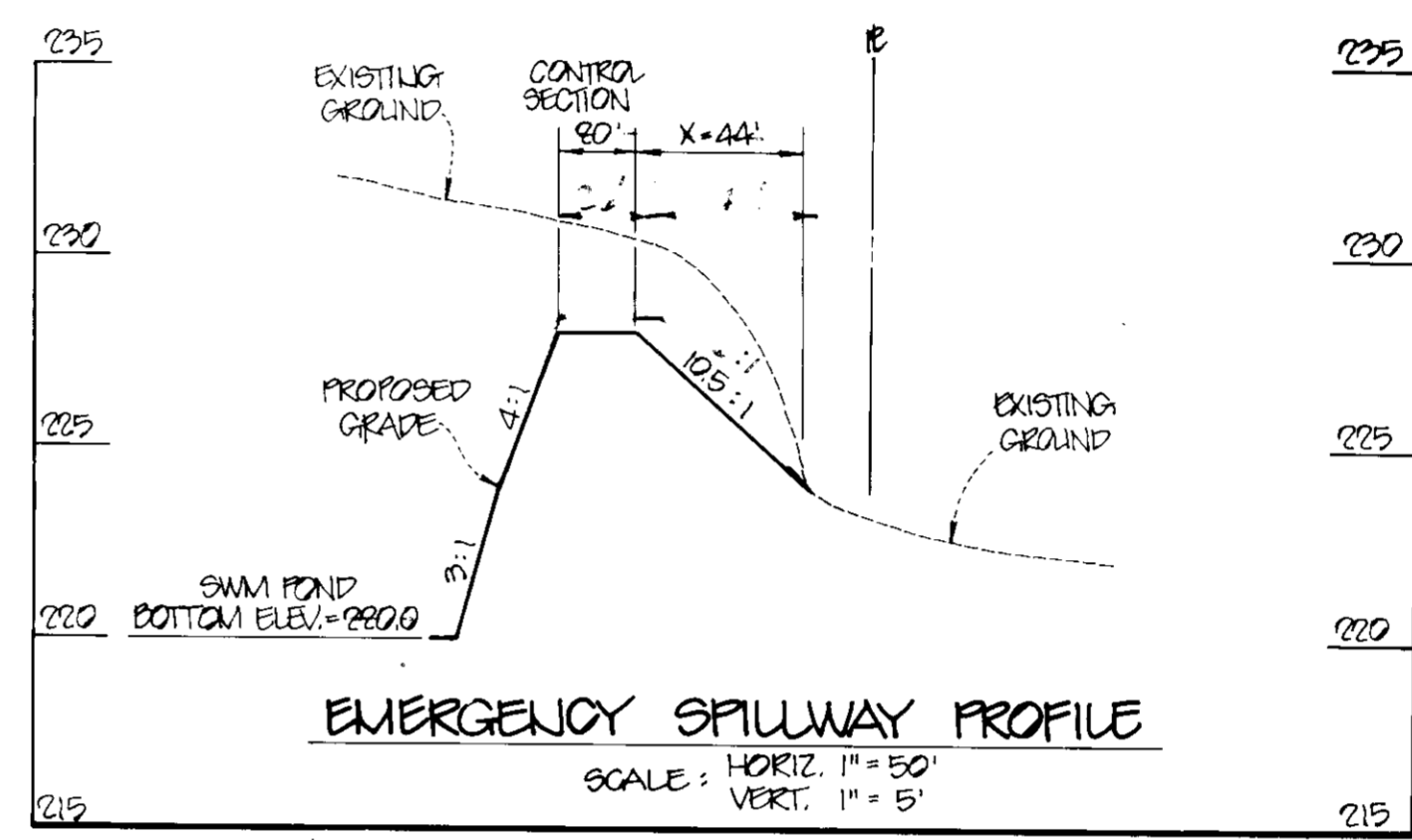
SCALE: SHEET 5 OF 10 FILE NO. 2911-10

SDP-90-28



R-1737 Manhole Frame, Solid Lid

Light Duty
Total Weight 115 Pounds
NEENAH FOUNDRY CO.
CATALOG # R-1737
3RD EDITION



APPROVED: FOR PUBLIC WATER AND W/ W/ SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED: FOR PUBLIC WATER AND W/ W/ SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

APPROVED: FOR PUBLIC WATER, DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL & POND CONSTRUCTION

() 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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will 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."

Signature of Developer: *Robert J. Ziehl* Date: 11/21/89

() 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 must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer: *Robert J. Ziehl* Date: 11/21/89

() 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.

Signature of District: *James M. Helm* Date: 12/5/89

() These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

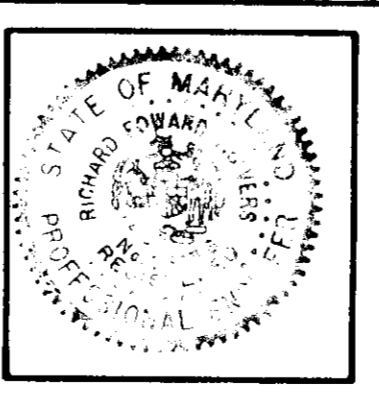
Signature of District: *Robert J. Ziehl* Date: 12/5/89

| NO. | REVISIONS | DATE | CKD |
|-----|-------------------------------------|----------|-----|
| 3 | ORIGINALS ISSUED TO HQ. CO. | 11/17/89 | |
| 2 | REVISED FOR HQ. CO. REVIEW COMMENTS | 3/22/89 | |
| 1 | ISSUED TO HOWARD CO. FOR REVIEW | 2/1/89 | |

PHR&A
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS

PATTON, HARRIS, RUST & ASSOCIATES, PC
7609 STANDISH PLACE
ROCKVILLE, MARYLAND 20854

OFFICES:
FAIRFAX, VA.
BRIDGEWATER, VA.
CHANTILLY, VA.
LEESBURG, VA.
ROCK HILL, MD.
VIRGINIA BEACH, VA.



OWNER: EDWARD W. SCHULTZE
8016 GREENTREE ROAD 8700 ASHWOOD DRIVE
BETHESDA, MD 20817

DEVELOPER: DRIGGS CORPORATION
8700 ASHWOOD DRIVE
CAPITOL HEIGHTS, MD 20743

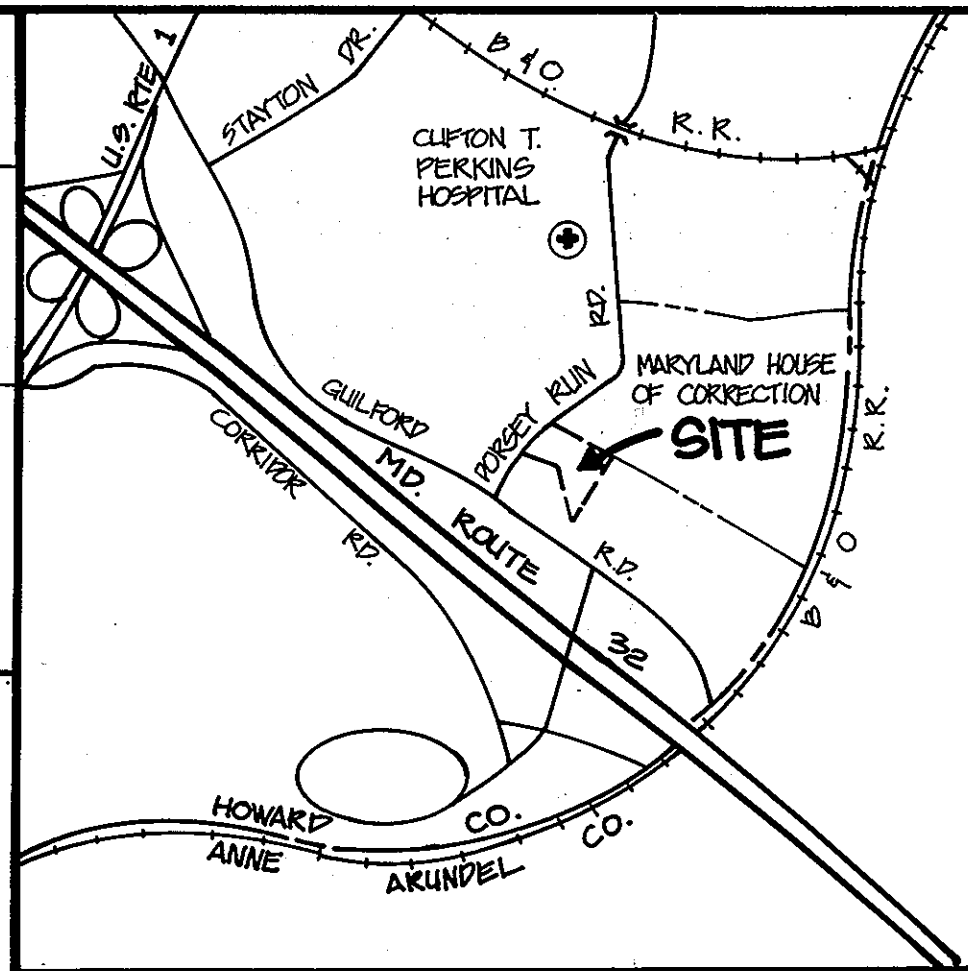
STORMWATER MANAGEMENT PROFILES AND DETAILS
DORSEY RUN ASPHALT PLANT
PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
PARCELS A & B
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65

| SUR. BY | BY | CKD | DATE |
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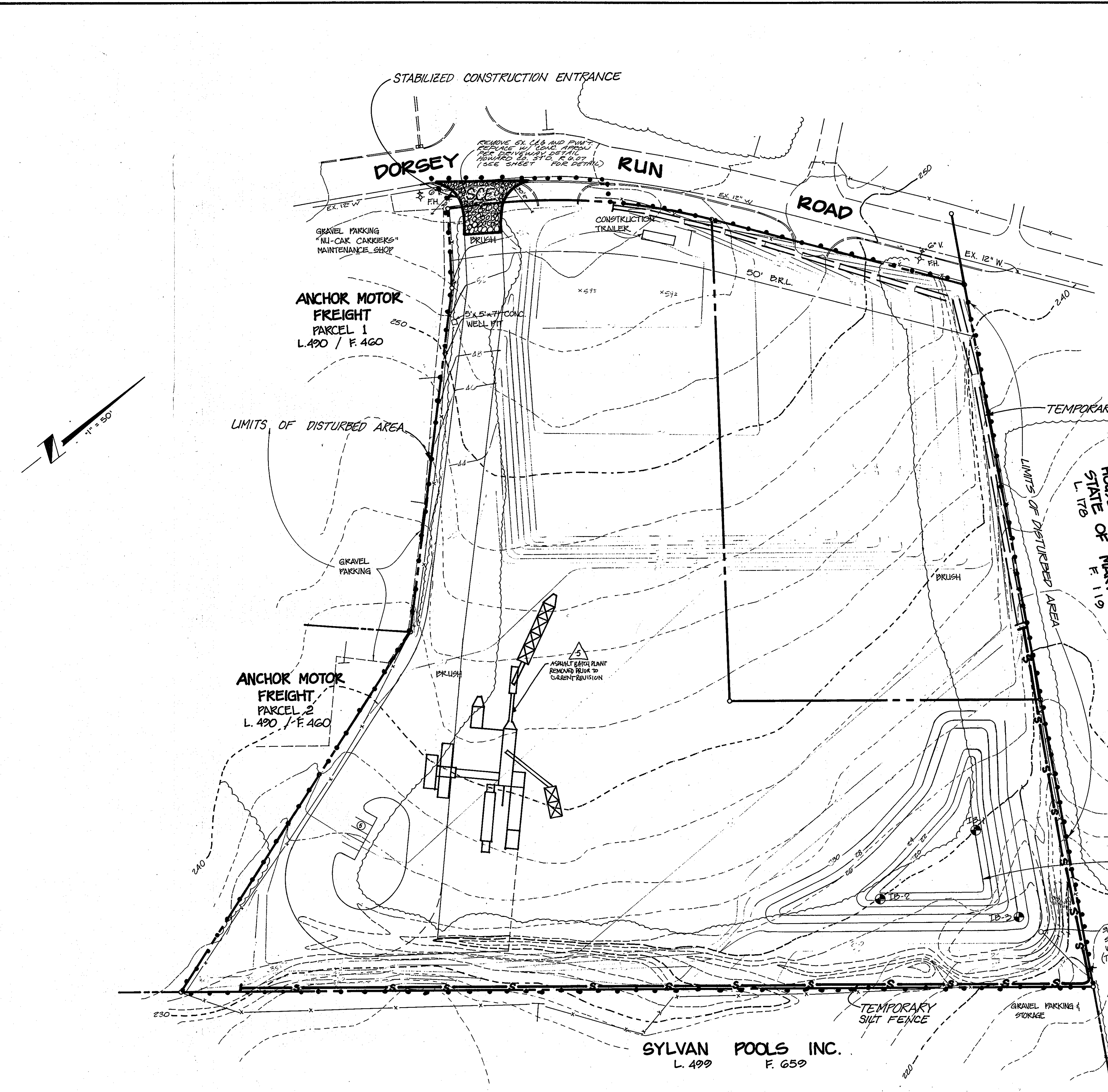
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| 6 OF 10 | 10 | 2311-10 |

SDP-90-28

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 12-26-89
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] DATE: 1/4/90
 APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEM AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 12/2/89
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 12-11-89



VICINITY MAP
 SCALE: 1" = 2000'



FOR REVISIONS ONLY
 [Signature]
 PROFESSIONAL CERTIFICATION
 I, MATTHEW T. ALLEN, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 28827. EXPIRATION DATE: 4/11/13

SEDIMENT CONTROL & POND CONSTRUCTION

() 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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will 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."
 [Signature] Date: 11/21/89
 Signature of Developer
 Print name below signature

() By the Engineer:
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 [Signature] Date: 11/21/89
 Signature of Engineer
 Print name below signature

() 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.
 [Signature] Date: 12/5/89
 U.S. Soil Conservation Service

() These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 [Signature] Date: 12/5/89
 Howard Soil Conservation District

REFER TO SHEETS 546 OF 10 FOR CONTROL STRUCTURE & DEWATERING DEVICE.

THIS PLAN IS FOR GRADING, EROSION AND SEDIMENT CONTROL PURPOSES ONLY. REFER TO OTHER PLANS FOR ALL OTHER INFORMATION

| NO. | REVISIONS | DATE | CKD |
|-----|------------------------------------|----------|-----|
| 5 | ADDED LIGHTING, SCALE AND TRAILER | | |
| 2 | ORIGINALS ISSUED TO HQ CO. | 11/17/89 | |
| 2 | REVISED PER HQ CO. REVIEW COMMENTS | 2/10/90 | |
| 1 | ISSUED TO HQ CO. FOR REVIEW | 8/2/89 | |

PHR&A
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 PATTON, HARRIS, RUST & ASSOCIATES, PC
 7809 STANDISH PLACE
 ROCKVILLE, MARYLAND 20855
 301-762-2220 WASH. 301-792-7244 BALT.

OFFICES
 FAIRFAX, VA.,
 BRIDGEWATER, VA.,
 CHANTILLY, VA.,
 LEESBURG, VA.,
 ROCKVILLE, MD.,
 VIRGINIA BEACH, VA.

OWNER
 EDWARD W. SCHULTZE
 8016 GREENTREE ROAD
 BETHESDA, MD 20817

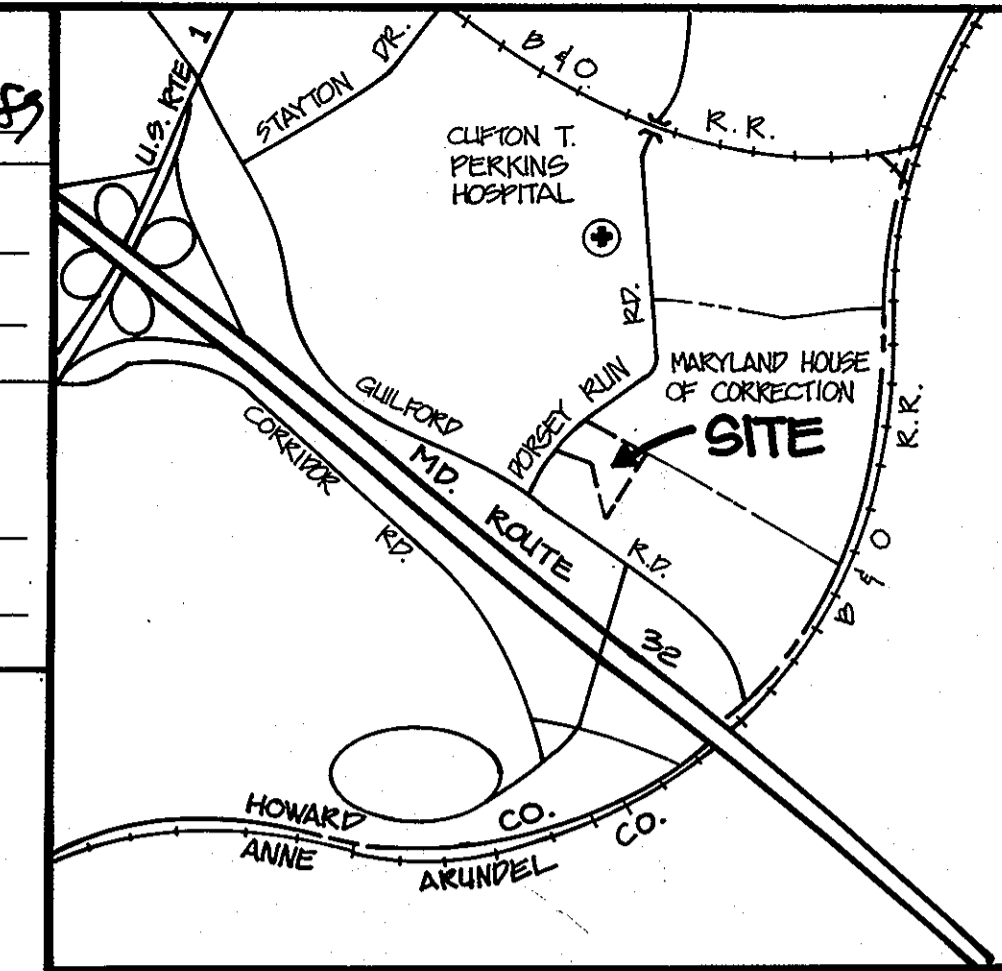
DEVELOPER
 DRIGGS CORPORATION
 8700 ASHWOOD DRIVE
 CAPITOL HEIGHTS, MD 20743

GRADING, EROSION & SEDIMENT CONTROL PLAN - PHASE I
 DORSEY RUN ASPHALT PLANT
 PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
 PARCELS A & B
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65

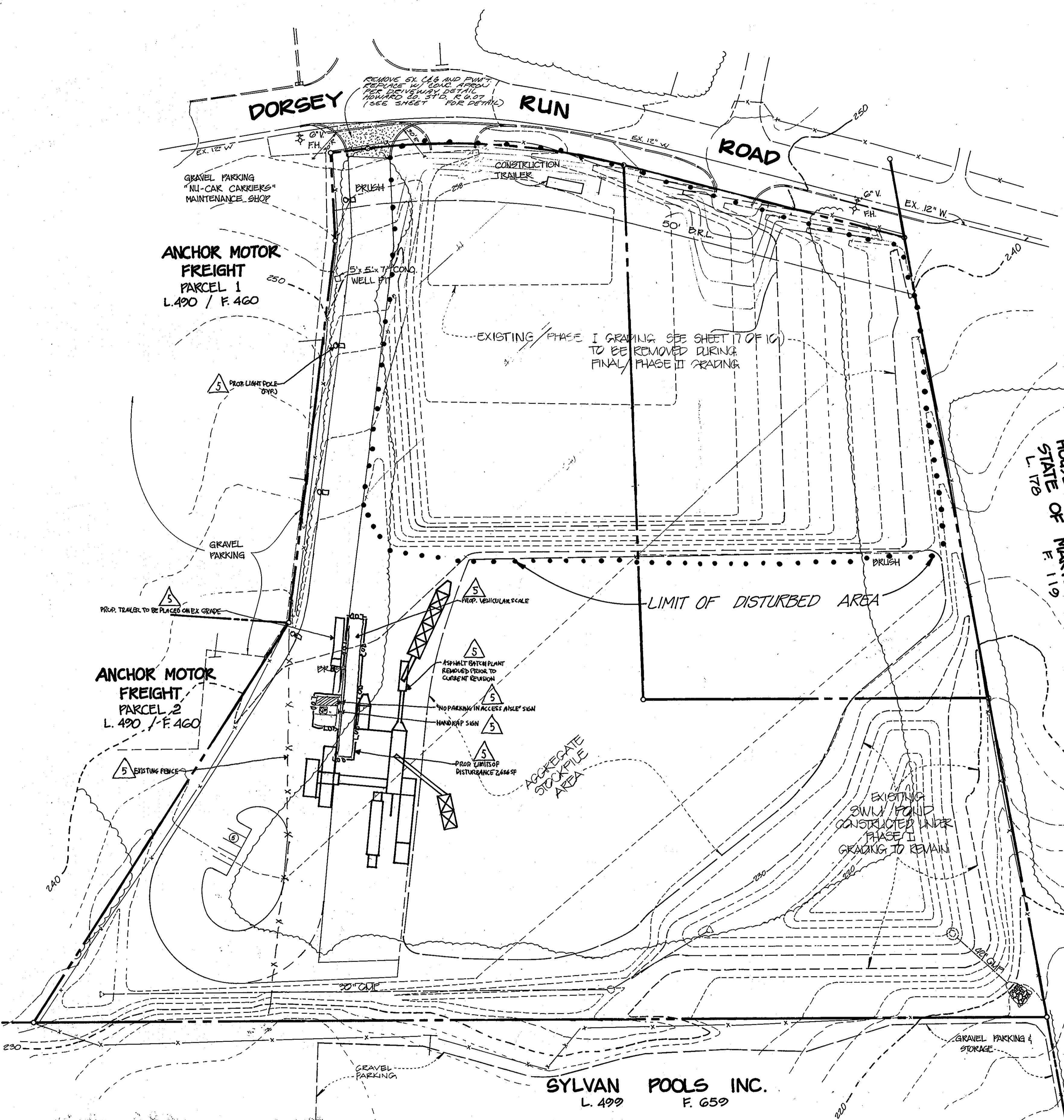
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| BASE | BY | CKD | DATE |
| DESIGN | | | |
| DRAWN | FA | | |
| SCALE | SHEET | FILE NO. | |
| 1" = 50' | 7 OF 10 | 2311-1-0 | |

SDP-90-2B

APPROVED: FOR PUBLIC WATER AND SEWAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 12-20-89
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 11/14/90
 APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DIRECTOR: *[Signature]* DATE: 12/23/89
 APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEM AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 12/21/89
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 12-12-89



VICINITY MAP
 SCALE: 1" = 2000'



FOR REVISIONS ONLY
[Professional Seal]

PROFESSIONAL CERTIFICATION
 I, *[Signature]*, hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 25524, EXPIRATION DATE: 11/1/13

SEDIMENT CONTROL & POND CONSTRUCTION

() 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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic site inspections by the Howard Soil Conservation District."
[Signature] Date: Nov 21 89

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[Signature] RE Travers Date: 12/1/89

() 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.
[Signature] Date: 12/5/89

() These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
[Signature] Date: 12/5/89

THIS PLAN IS FOR GRADING, EROSION AND SEDIMENT CONTROL PURPOSES ONLY. REFER TO OTHER PLANS FOR ALL OTHER INFORMATION.

| NO. | REVISIONS | DATE | CKD |
|-----|------------------------------------|----------|-----|
| 5 | ADDED LIGHTING SCALE AND TRAILER | | |
| 3 | ORIGINALS ISSUED TO HQ CO. | 11/17/89 | |
| 2 | REVISED PER HQ CO. REVIEW COMMENTS | 9/22/89 | |
| 1 | ISSUED TO HQ CO. FOR REVIEW | 8/2/89 | |

PHR&A
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 PATTON, HARRIS, RUST & ASSOCIATES, PC
 7609 STANDISH PLACE
 ROCKVILLE, MARYLAND 20855
 301-762-2220 WASH. 301-792-7244 BALT.

OFFICES
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 VIRGINIA BEACH, VA.

OWNER
 EDWARD W. SCHULTZE
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DEVELOPER
 DRIGGS CORPORATION
 8700 ASHWOOD DRIVE
 CAPITOL HEIGHTS, MD 20743

GRADING, EROSION & SEDIMENT CONTROL PLAN - PHASE II
DORSEY RUN ASPHALT PLANT
 PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
 PARCELS A & B
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65

| SURVEY | | | |
|--------|----|-----|------|
| BASE | BY | CKD | DATE |
| DESIGN | | | |
| DRAWN | FA | | |

| SCALE | SHEET | FILE NO. |
|--------|---------|----------|
| 1"=50' | 8 OF 10 | 2311-1-0 |

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

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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

- 1) Preferred -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/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 (9 lbs/1000 sq ft).
2) Acceptable -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding -- For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/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 (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching -- Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/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/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/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/1000 sq ft) of rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/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.

EARTH DIKE drawing showing cross section and construction specifications. Includes a table for flow channel stabilization with columns for Type of Treatment, Channel Size, Dike A, and Dike B.

SILT FENCE drawing showing perspective and section views. Includes construction notes for fabricating silt fence and a table for flow channel stabilization.

STABILIZED CONSTRUCTION ENTRANCE drawing showing profile and plan views. Includes construction specifications and a table for flow channel stabilization.

TEMPORARY SWALE drawing showing cross section and plan view. Includes construction specifications and a table for flow channel stabilization.

SEDIMENT CONTROL & POND CONSTRUCTION section with developer and engineer certification statements and signatures.

SEQUENCE OF CONSTRUCTION section with a list of 10 phases from permit to final site stabilization.

SEDIMENT CONTROL NOTES section with 10 numbered items detailing sediment control requirements and site analysis data.

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT. Includes signatures and dates for County Health Officer and Director of Community Planning and Land Development.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING. Includes signatures and dates for Director and S. Soil Conservation Service.

APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEM AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Includes signatures and dates for Director and Howard Soil Conservation District.

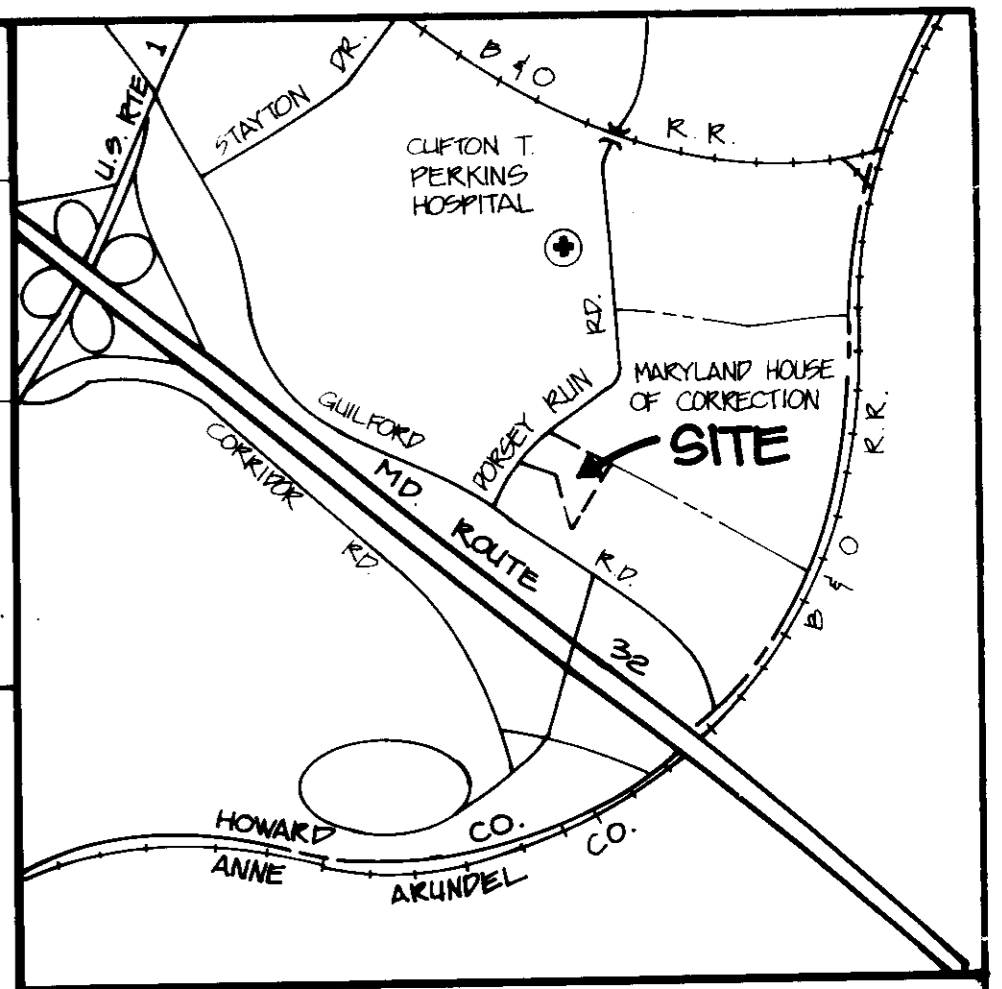
Table with columns for NO., REVISIONS, DATE, and CKD. Lists original issues and revisions.

PHR&A logo and address information: PATTON, HARRIS, SMITH & ASSOCIATES, INC. 7609 STARBUCK PLACE, ROCKVILLE, MARYLAND 20855.

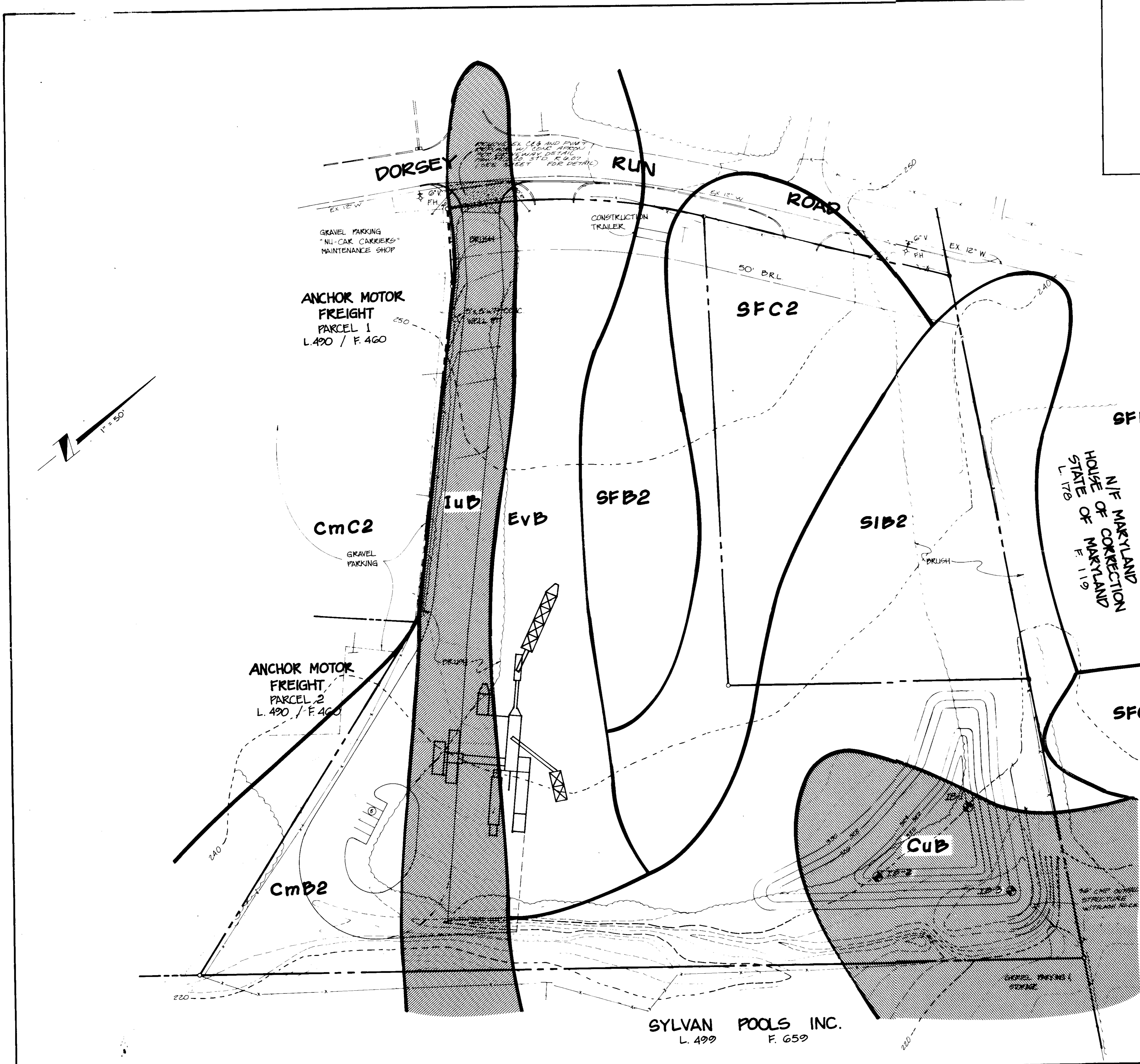
EROSION & SEDIMENT CONTROL DETAILS DORSEY RUN ASPHALT PLANT PRINCEMONT CONSTRUCTION CORPORATION PROPERTY PARCELS A & B. Includes address: SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65.

Revision table and drawing information. Includes columns for BY, CHK, DATE, SHEET, and FILE NO. Drawing number: 2311-1-0. Project number: SDP-90-28.

J. Patton Harris
 12-26-89
 DEPT. OF PLANNING & ZONING
 1/4/90
 For Richard Blood
 12/27/89
 James P. Rust
 10/21/89
 William E. Rust
 12-11-89



VICINITY MAP
SCALE: 1" = 2000'



SOIL LEGEND

| | | |
|------|--------------------------------|------------------------------------|
| CuB | Comus Silt Loam, | 3 to 8% slopes |
| CmB2 | Chillum Silt Loam, | 1 to 5% slopes, moderately eroded |
| CmC2 | Chillum Silt Loam, | 5 to 10% slopes, moderately eroded |
| EvB | Evesboro Loamy Sand, | 1 to 5% slopes |
| IuB | Iuka Loam local alluvium, | 1 to 5% slopes |
| SFB2 | Sassafras Gravelly sandy loam, | 1 to 5% slopes, moderately eroded |
| SFC2 | Sassafras Gravelly sandy loam, | 5 to 10% slopes, moderately eroded |
| SIB2 | Sassafras Loam, | 1 to 5% slopes, moderately eroded |

SOILS WHICH MAY CONTAIN HYDRIC INCLUSIONS
(Lowlands & Moderate Slope Areas)

STAND DENSITY

| Stand # | Area Acres | Dominant Species | Timber Size | Age | Stocking |
|---------|------------|---|------------------|------|----------|
| 1 | 4.5 Ac | RED PINE TULIP POPLAR (SECONDARY SUCCESSION OVER FILL AREA) | SMALL POLETIMBER | Even | ADEQUATE |

| PHR&A SOIL BORING LOG 18-1 | | | | PHR&A SOIL BORING LOG 18-2 | | | | PHR&A SOIL BORING LOG 18-3 | | | |
|----------------------------|--|--------|--------------------------|----------------------------|---|--------|-----------------------------|----------------------------|--|--------|--|
| DEPTH (FT) | FIELD DESCRIPTION | METHOD | REMARKS | DEPTH (FT) | FIELD DESCRIPTION | METHOD | REMARKS | DEPTH (FT) | FIELD DESCRIPTION | METHOD | REMARKS |
| 0 | Clayey sand, medium brown, moist | 12.0 | Probable fill material | 0 | Silt loam, medium brown, moist | 15.2 | | 0 | Silty clay, dark brown, wet, firm | 21.7 | |
| 1 | Organic layer, fine fibrous, general decay, matrix necrotic to clayey silt | 12.0 | Base layer of fill | 1 | Sandy silt, brown, slightly moist | 14.1 | Extremely uniform soil unit | 1 | Sand-gravel mix with clay matrix, brown, moist, firm | 20.4 | Likely fill material, non-homogeneous unit |
| 2 | Fine-medium sand, light-medium brown, moist, loose | 17.0 | Uniform, clean sand unit | 2 | Medium-coarse sand, brown, slightly moist, loose | | | 2 | Silt loam, medium brown, moist | 18.1 | |
| 3 | Coarse sand, light brown, moist, loose | 18.0 | Extremely porous unit | 3 | Coarse sand mixed with gravel, light brown, slightly moist, loose | 18.0 | | 3 | Coarse sand, light brown, moist | 18.1 | No gravel present |

| NO. | REVISIONS | DATE | CHKD. |
|-----|-------------------------------------|----------|-------|
| 3 | ORIGINALS ISSUED TO HO. CO. | 11/17/89 | |
| 2 | REVISED PER HO. CO. REVIEW COMMENTS | 2/22/90 | |
| 1 | ISSUED TO HO. CO. FOR REVIEW | 8/2/89 | |

PHR&A
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 PATTON, HARRIS, RUST & ASSOCIATES, PC
 7609 STANDISH PLACE
 ROCKVILLE, MARYLAND 20855
 301 762-2220 WASH. 301 792-7244 BALT.

OWNER
 EDWARD W. SCHULTZE
 8016 GREENTREE ROAD
 BETHESDA, MD 20817

DEVELOPER
 DRIGGS CORPORATION
 8700 ASHWOOD DRIVE
 CAPITOL HEIGHTS, MD 20743

SOILS / VEGETATION MAPS
DORSEY RUN ASPHALT PLANT
PRINCEMONT CONSTRUCTION CORPORATION PROPERTY
PARCELS A & B
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 48 PARCEL 65

SURVEY: P.H.R.&A

| | | | |
|--------|--------|------|------|
| BASE | BY | CRD | DATE |
| DESIGN | K.O.R. | E.K. | |
| DRAWN | E.K. | | |

SCALE: 1" = 50'
 SHEET: 10 OF 10
 FILE NO.: 2311-1-0

SDP-90-28