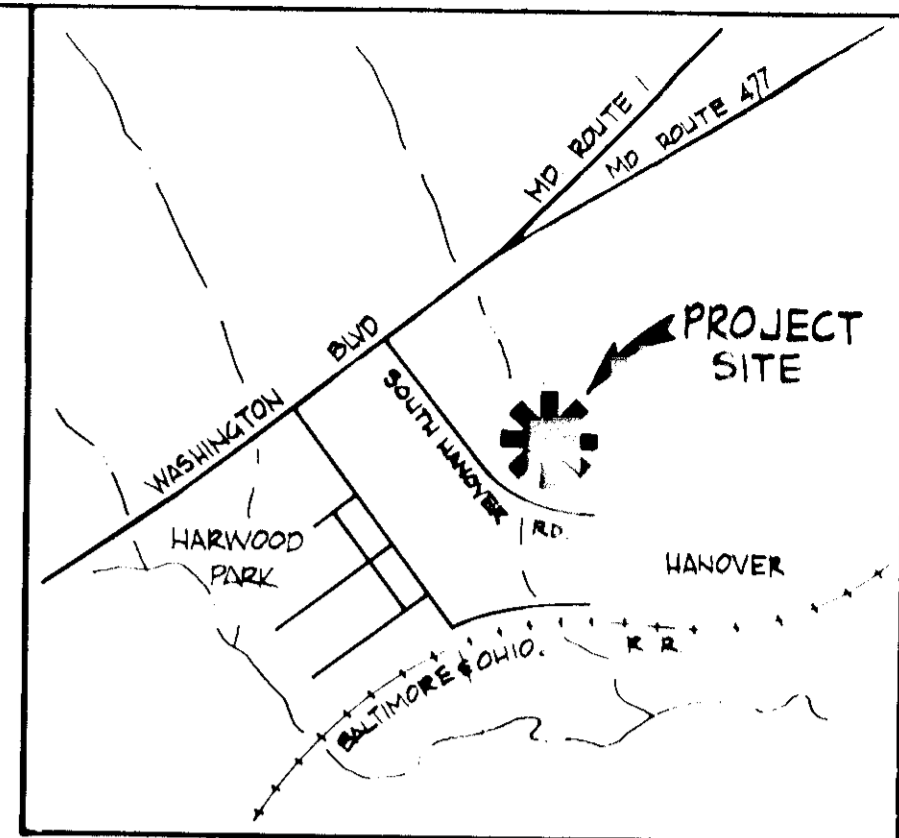


SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	STORM DRAIN PROFILES
4	SITE DETAILS
5	SEDIMENT CONTROL DETAILS
6	DRAINAGE AREA MAP

DIGNAN TRUCKING, INC.

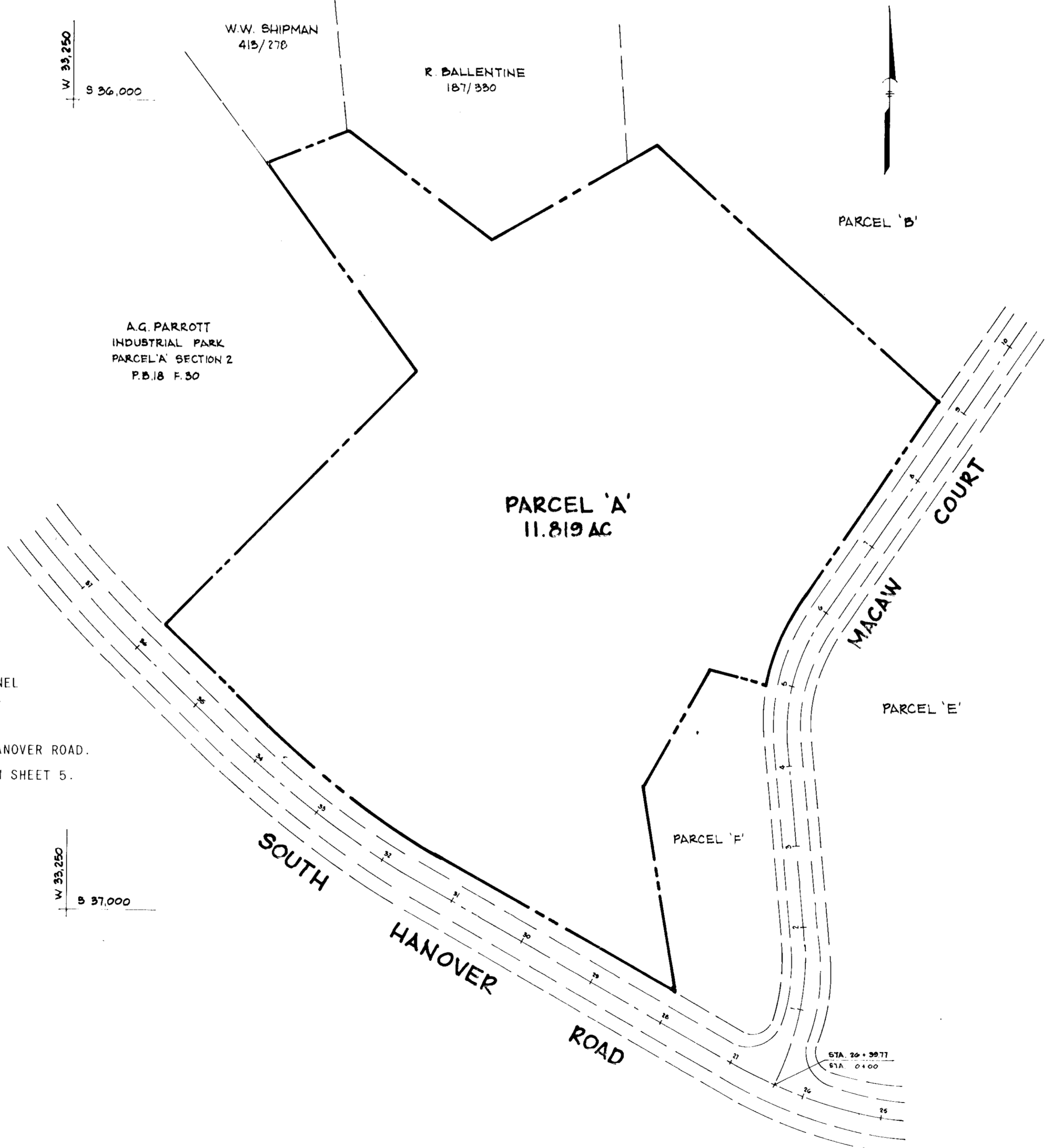
HARWOOD INDUSTRIAL PARK HOWARD CO., MARYLAND



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 36" BELOW FINISHED GRADE.
- CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR 2 PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLED BAND CONNECTORS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- 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.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWINGS:
 - BELL TELEPHONE SYSTEM 393-3649
 - LONG DISTANCE CABLE DIVISION 393-3553 or 3554
 - BALTIMORE GAS AND ELECTRIC CO. 539-8000 Ext. 691
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- 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.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. & G.S. MEAN SEA LEVEL DATUM 1929.



SEQUENCE OF CONSTRUCTION

- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL STORM WATER DETENTION POND WITHOUT THE 'C' ENDWALL AT S-2 OR THE RIPRAP CHANNEL THRU POND, BUT WITH THE ADDED TEMPORARY SEDIMENT CONTROL DEVICES AS SHOWN ON SHEET 3.
- SEED EXTERIOR OF POND PER PERMANENT SEEDING NOTES ON SHEET 5.
- INSTALL ALL OTHER SEDIMENT CONTROL DEVICES ALONG WITH THE CURB AND GUTTER ALONG S. HANOVER ROAD.
- SEED INTERIOR OF POND AND ALL SEDIMENT CONTROL DEVICES PER TEMPORARY SEEDING NOTES ON SHEET 5.
- BEGIN GRADING.
- BEGIN ALL OTHER SITE DEVELOPMENT CONSTRUCTION.
- FINE GRADE DISTURBED AREAS AND SEED PER PERMANENT SEEDING NOTES ON SHEET 5.
- WHEN PERMISSION IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES AND CLEAN SEDIMENT BASIN TO ORIGINAL CONTOURS SHOWN ON SHEET 2.
- INSTALL 'C' ENDWALL AT S-2 AND THE RIPRAP CHANNEL THRU POND.
- SEED ALL REMAINING DISTURBED AREAS PER PERMANENT SEEDING; NOTE SHEET 5.

CERTIFICATION BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Archie Dupuis 7/22/77
Signature of Developer Date

CERTIFICATION BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR PONDS, 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". I HAVE ALSO INFORMED THE OWNER OF HIS RESPONSIBILITY TO HAVE CONSTRUCTION SUPERVISED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.

Robert R. Platt 7-22-77
Signature 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.

C. Wayne Ray 7/27/77
Signature Date
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.

APPROVED: *John D. Myers* 7-27-77
Howard S.C.D. Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

RD Kagan 8-2-77
Director Date
Annville H. Holland 8/7/77
Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PA Clemons 8/18/77
Planning Director Date

Chief, Division of Land Development Date

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

Walter Boudler 8-8-77
County Health Officer Date

Date	No.	Revision Description

DIGNAN TRUCKING, INC.
1st. ELECTION DISTRICT - HOWARD CO., MD.

OWNER AND DEVELOPER
DIGNAN TRUCKING, INC.
3210 HAMMONDS FERRY ROAD
BALTIMORE, MARYLAND 21219

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

AREA
HARWOOD INDUSTRIAL PARK SECTION 2
PLAT BOOK 25 - FOLIO 50 - TAX MAP 38 - PARCEL 'A'

TITLE
TITLE SHEET

Des By	Scale	Proj. No.
Dwn By	Date	Drawing No.
Chk By	Approved	1 OF 6

7-22-77
Date

Robert R. Platt
Professional Engr. No.

7-13-77

SITE ANALYSIS

TOTAL AREA OF PARCEL: 11.810 AC
 PRESENT ZONING: M-1
 RELATED ZB CASE #: 703-C
 INTENDED USE OF SITE: TRUCKING TERMINAL
 TOTAL NUMBER OF EMPLOYEES ON SITE: 20
 RETAIL SALES AREA: NONE
 TOTAL BUILDING COVERAGE: 19,825 SQ. FT.

* SPACE RESERVED FOR PHYSICALLY HANDICAPPED PERSONS TO BE IDENTIFIED BY SIGNS EIGHT (8) FEET ABOVE GRADE STATING SAME.

M-1
 A.G. PARROT INDUSTRIAL PARK
 SECTION 2 PARCEL 'A'
 PLAT BOOK 18 FOLIO 30

EX. FLOOD PLAIN WAS TAKEN FROM PLAN PREPARED BY PURDUM & JESCHKE, CONSULTING ENGRS

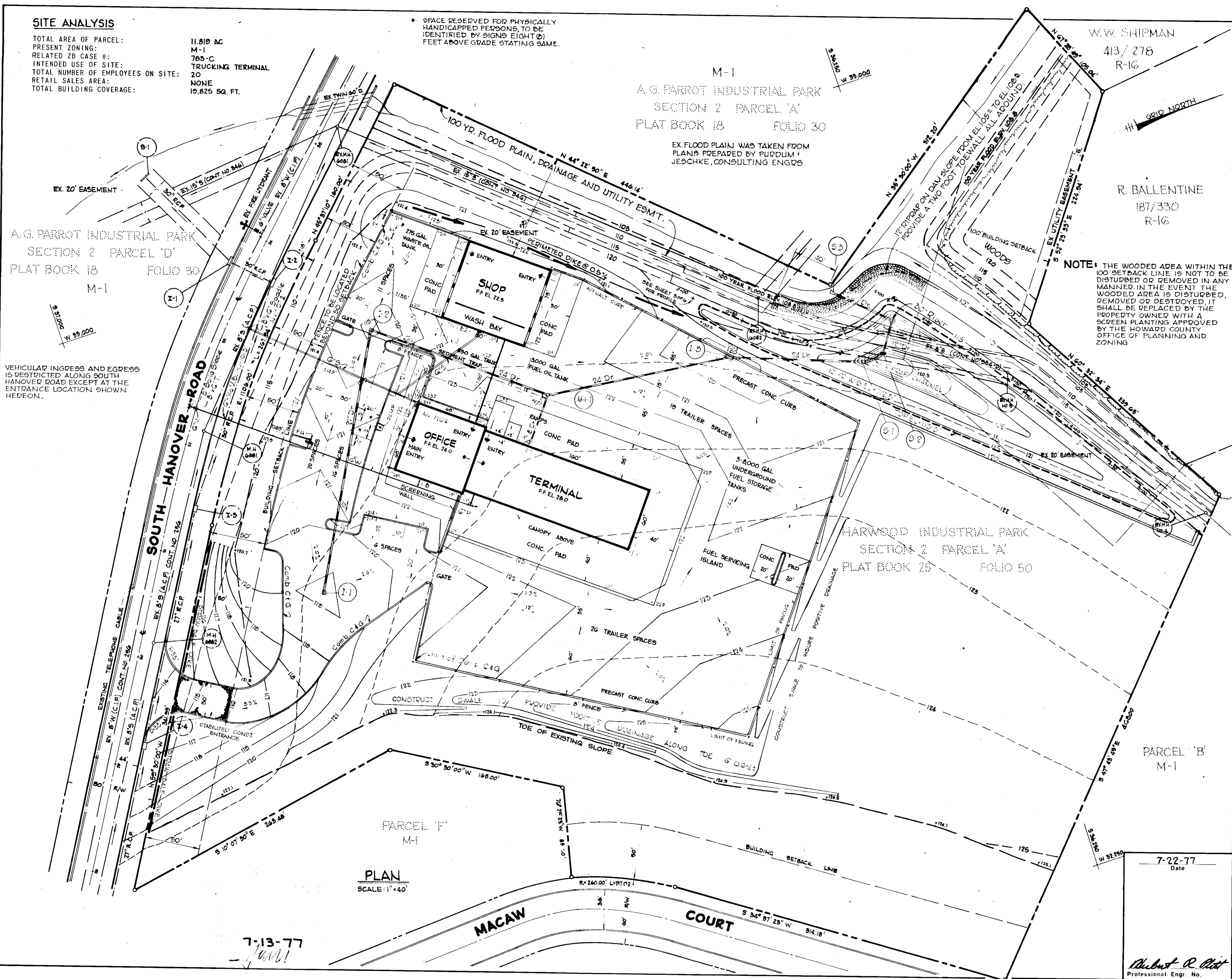
W.W. SHIPMAN
 413/278
 R-1G

R. BALLENTINE
 187/330
 R-1G

NOTE: THE WOODED AREA WITHIN THE 100' SETBACK LINE IS NOT TO BE DISTURBED OR REMOVED IN ANY MANNER IN THE EVENT THE WOODED AREA IS DISTURBED, REMOVED OR DESTROYED, IT SHALL BE REPLACED BY THE PROPERTY OWNER WITH A SCREEN PLANTING APPROVED BY THE HOWARD COUNTY OFFICE OF PLANNING AND ZONING

A.G. PARROT INDUSTRIAL PARK
 SECTION 2 PARCEL 'D'
 PLAT BOOK 18 FOLIO 30

VEHICULAR INGRESS AND EGRESS IS RESTRICTED ALONG SOUTH HANOVER ROAD EXCEPT AT THE ENTRANCE LOCATION SHOWN HEREON.



PLAN
 SCALE: 1" = 40'

7-13-77

CERTIFICATION BY THE DEVELOPER

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARI DEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Herb Dupont
 Signature of Developer
 7-22-77
 Date

CERTIFICATION BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR PONDS, 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". I HAVE ALSO INFORMED THE OWNER OF HIS RESPONSIBILITY TO HAVE CONSTRUCTION SUPERVISED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.

Robert R. Platt
 Signature
 7-22-77
 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.

C. Wayne Gray
 Signature
 7-27-77
 Date
 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.

APPROVED: *John D. Murphy*
 Howard S.C.D.
 7-27-77
 Date

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

P.J. Ragan
 Director
 8-2-77
 Date
Lawrence W. McKend
 Chief Bureau of Highways
 8-2-77
 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

J.H. Clavon
 Planning Director, Act. 1
 8/8/77
 Date
James H. Johnson
 Chief, Division of Land Development
 8-8-77
 Date

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

Joseph P. Blum
 County Health Officer
 8-8-77
 Date

Date	No	Revision Description

DIGNAN TRUCKING, INC.
 1st. ELECTION DISTRICT - HOWARD CO. MD.

OWNER AND DEVELOPER
 DIGNAN TRUCKING, INC.
 3210 HAMMONS FERRY ROAD
 BALTIMORE, MARYLAND 21219

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA HARWOOD INDUSTRIAL PARK SECTION 2
 PLAT BOOK 25 - FOLIO 50 - TAX MAP 38 - PARCEL 'A'

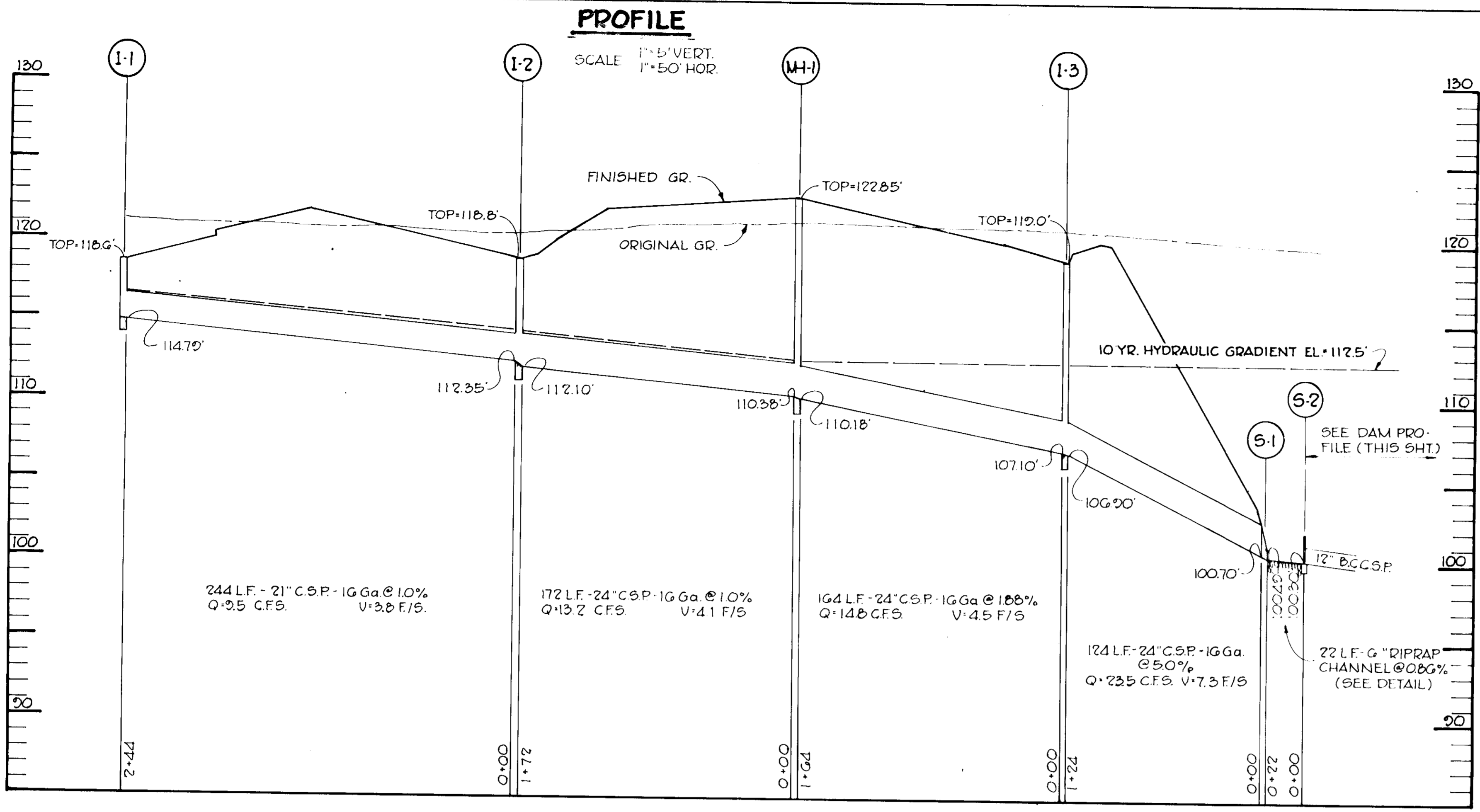
TITLE
 SITE DEVELOPMENT PLAN

Des By F.T.	Scale AS SHOWN	Proj No 6676
Drn By F.T.	Date 3-21-77	Drawing No.
Chk By	Approved	2 OF 6

7-22-77
 Date

Robert R. Platt
 Professional Engr. No.

SDP-77-95



STRUCTURE CLASSIFICATION

STRUCTURE CLASS: a
 STORAGE x HEIGHT PRODUCT: 20.1
 WATERSHED AREA: 6.2 ACRES
 HEIGHT TO EM. SPWY. CREST: 19.2 FT.
 NORMAL SURFACE AREA: 50 AC.
 STRUCTURE LOCATION: RURAL OR URBAN

CONSTRUCTION SPECIFICATIONS

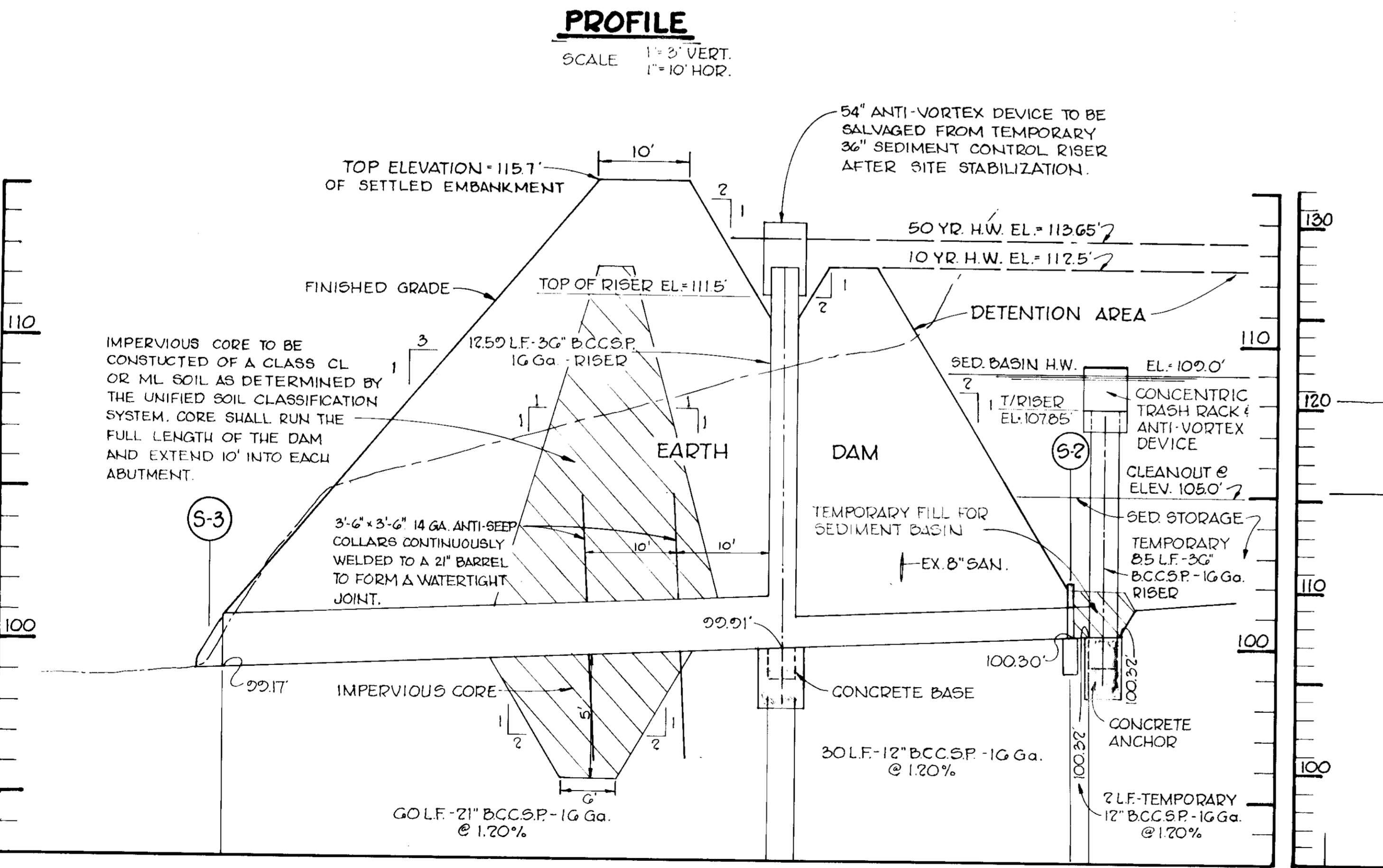
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DITCHES IN THE LAKE BORROW AREA TO PROVIDE DRAINAGE FOR FILL MATERIAL.
- AREA UNDER THE EMBANKMENT SHALL BE CLEARED AND GRUBBED TO REMOVE ALL TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL AND TOPSOIL STRIPPED AND STOCKPILED.
- THE BACKFILL MATERIAL FOR THE CUTOFF TRENCH AND UPSTREAM SIDE OF THE DAM SHALL BE MOST IMPERVIOUS MATERIAL AVAILABLE. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH 8" MAXIMUM THICKNESS LAYER SHALL BE 1) TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT. 2) COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY.
- RISER ASSEMBLY TO BE SHOP FABRICATED. CONTINUOUSLY WELD BASE PLATE, DRAIN STUB, AND BARREL STUB TO RISER AND COAT WITH ASPHALT AFTER WELDING.
- THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR OTHER UNSTABLE SOIL IS ENCOUNTERED UNDER THE PIPE, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.
- CONCRETE SHALL HAVE A MINIMUM OF 6 BAGS OF CEMENT PER CUBIC YARD AND WATER CONTENT NOT TO EXCEED 6 GALLONS PER BAG OF CEMENT. SLUMP SHALL RANGE 3"-4". ALL CONCRETE SHALL BE TRANSIT MIX AND INTERNALLY VIBRATED DURING PLACEMENT.
- CONNECTION BANDS TO BE ONE OF THE FOLLOWING:
 - STANDARD BAND UTILIZING 3/8" x 7" RUBBER GASKET.
 - HUGGER BAND WITH 2" O" RINGS.
 - FLANGES CONTINUOUSLY WELDED AND BOLTED TOGETHER.
 - FLANGE BAND WITH GASKET.
- ALL EXPOSED SURFACES OF THE EMBANKMENT, EMERGENCY SPILLWAY AND BORROW AREAS SHALL BE STABILIZED BY:
 - SPREADING 4" OF TOPSOIL.
 - WORKING IN 1/2 TON OF GROUND LIME AND 1,000 LBS. OF 10-10-10 FERTILIZER PER ACRE.
 - SEEDING WITH MIXTURE OF 60 LBS. KY 31 TALL FESCUE AND 20 LBS. KOREAN LESPEDEZA PER ACRE.
 - MULCHING WITH 1-1/2 TONS STRAW PER ACRE.

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT
EARTH FILL	C.Y.
EXCAVATION	C.Y.
RISER 20" BCCSP - 16 GA	11.59	L.F.
BARREL 21" BCCSP - 16 GA	60	L.F.
DRAIN 12" STEEL OR BCCSP	50	L.F.
CORRUGATED CONNECTING COLLARS & RUBBER GASKETS	5	EA.
ANTI SEEP COLLARS 3'-6" x 3'-6"	2	EA.
ROCK RIPRAP	50	EA.
CONCENTRIC TRASH RACK	1	EA.
VEGETATIVE STABILIZATION	4	AC.
CONCRETE	9	C.Y.

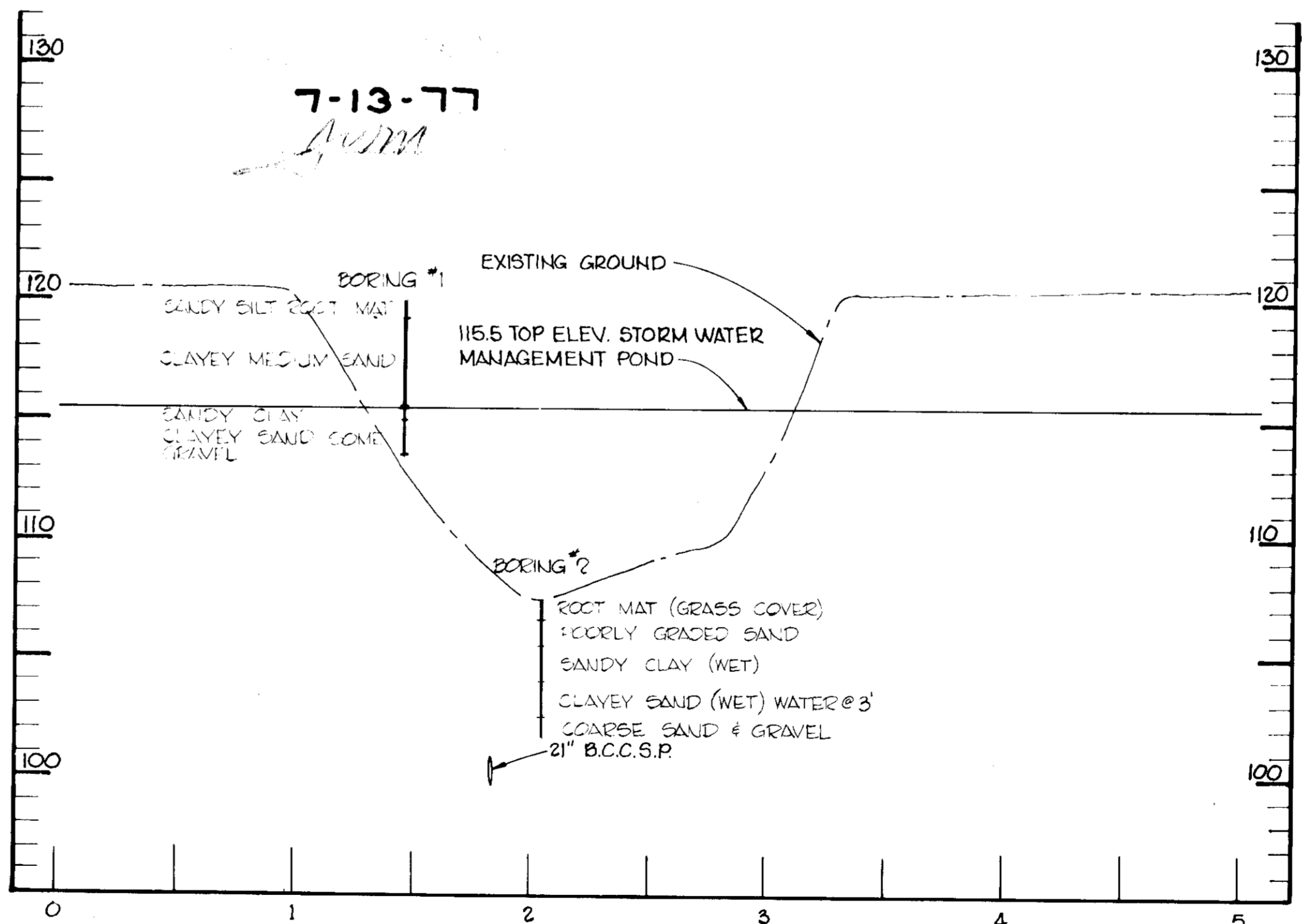
HYDROLOGIC CRITERIA

PRINCIPAL SPILLWAY ROUTING: 10 YR. FREQ.
 EMERGENCY SPILLWAY ROUTING: 50 YR. FREQ.
 FREEBOARD: 2 FT. ABOVE EM. SPWY. STORM



PROFILE

SCALE 1"=5' VERT. 1"=60' HOR.



CERTIFICATION BY THE DEVELOPER

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Harold Driggs 7/22/77
Signature of Developer Date

CERTIFICATION BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR PONDS, 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". I HAVE ALSO INFORMED THE OWNER OF HIS RESPONSIBILITY TO HAVE CONSTRUCTION SUPERVISED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.

Albert R. Platt 7-22-77
Signature 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.

C. Wayne Day 7-27-77
Signature U.S. Soil 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. Myers 7-27-77
Signature Howard S.C.D. Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John D. Myers 7-27-77
Signature Date

John R. Boyd 8-2-77
Signature Date
Director

Francis W. McCremond 8/2/77
Signature Date
Chief Bureau of Highways

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

John C. Clow 8/8/77
Signature Date
Planning Director

William H. ... 7/27/77
Signature Date
Chief, Division of Land Development

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

John R. Boyd 8-8-77
Signature Date
County Health Officer

Date	No	Revision Description

DIGNAN TRUCKING, INC.
 1st. ELECTION DISTRICT - HOWARD CO. MD.

OWNER AND DEVELOPER
 DIGNAN TRUCKING, INC.
 3210 HAMMONDS FERRY ROAD
 BALTIMORE, MARYLAND 21219

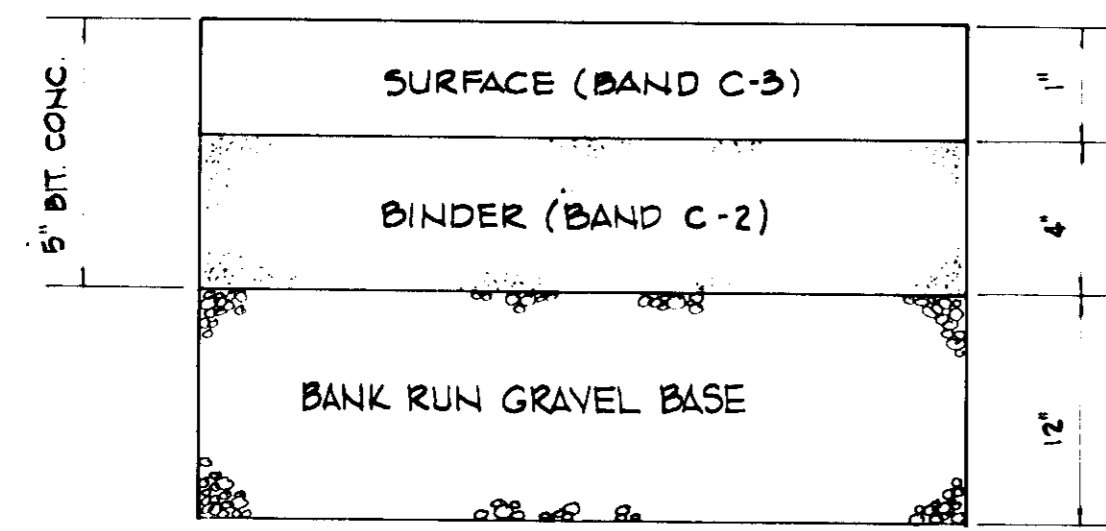
CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA
 HARWOOD INDUSTRIAL PARK SECTION 2
 PLAT BOOK 25 - FOLIO 50 - TAX MAP 38 - PARCEL 'A'

TITLE
 STORM DRAINS PROFILES

Des By F.T. Scale AS SHOWN Proj No 6076
 Drn By F.T. Date 3-21-77 Drawing No
 Chk By Approved 3 OF 6

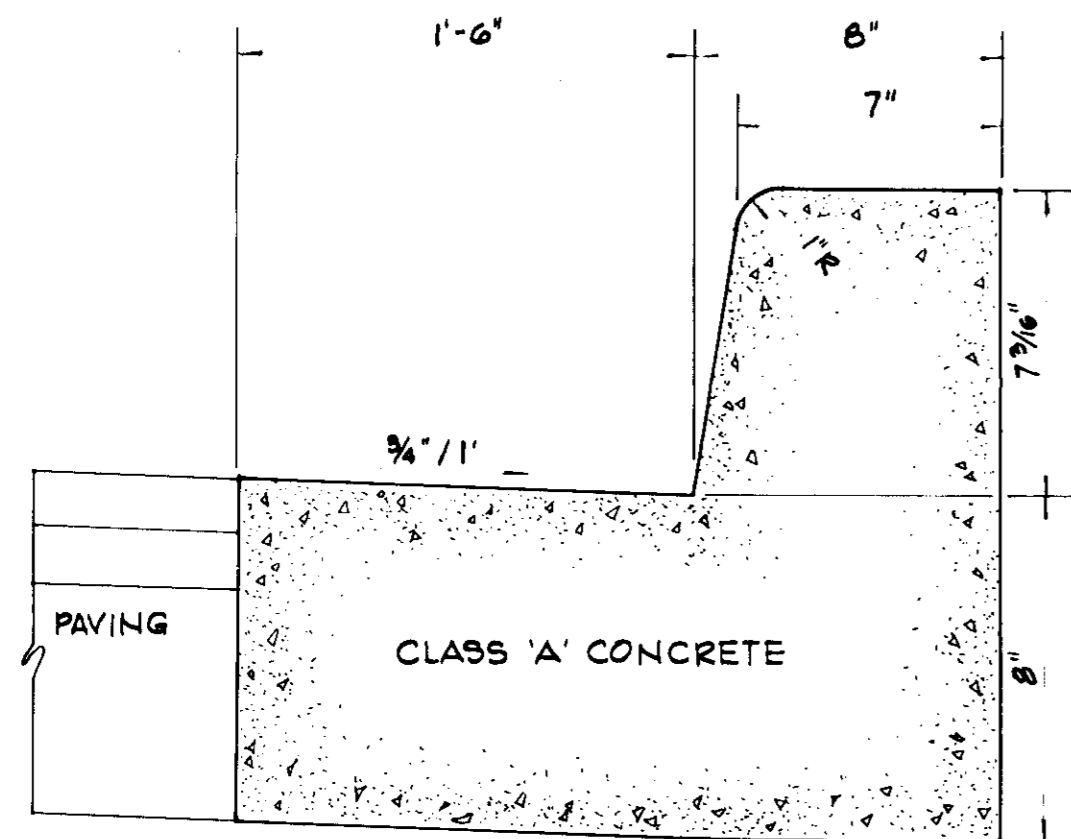
7-22-77
 Date
Albert R. Platt
 Professional Engr. No.



HOWARD COUNTY STANDARD D-6, PG. 61

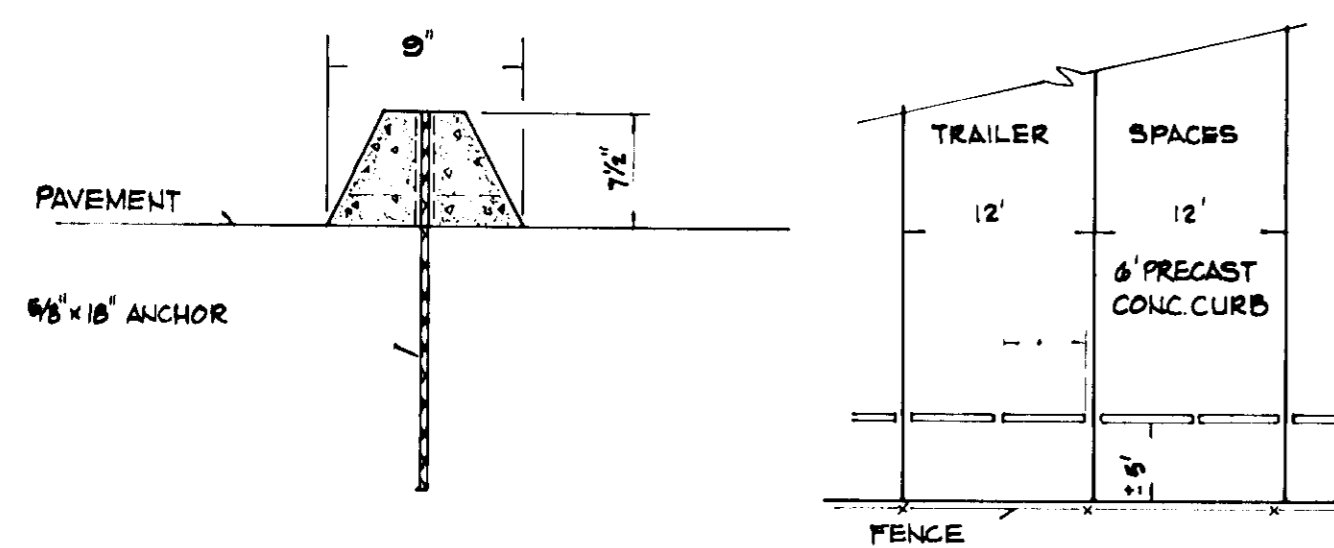
ITEM	SEC.
CLEARING AND GRADING:	C-1
SUBGRADE:	C-2
BASE COURSE:	C-25
BINDER COURSE:	C-31 OR 33
SURFACE COURSE:	C-31

17" PAVING



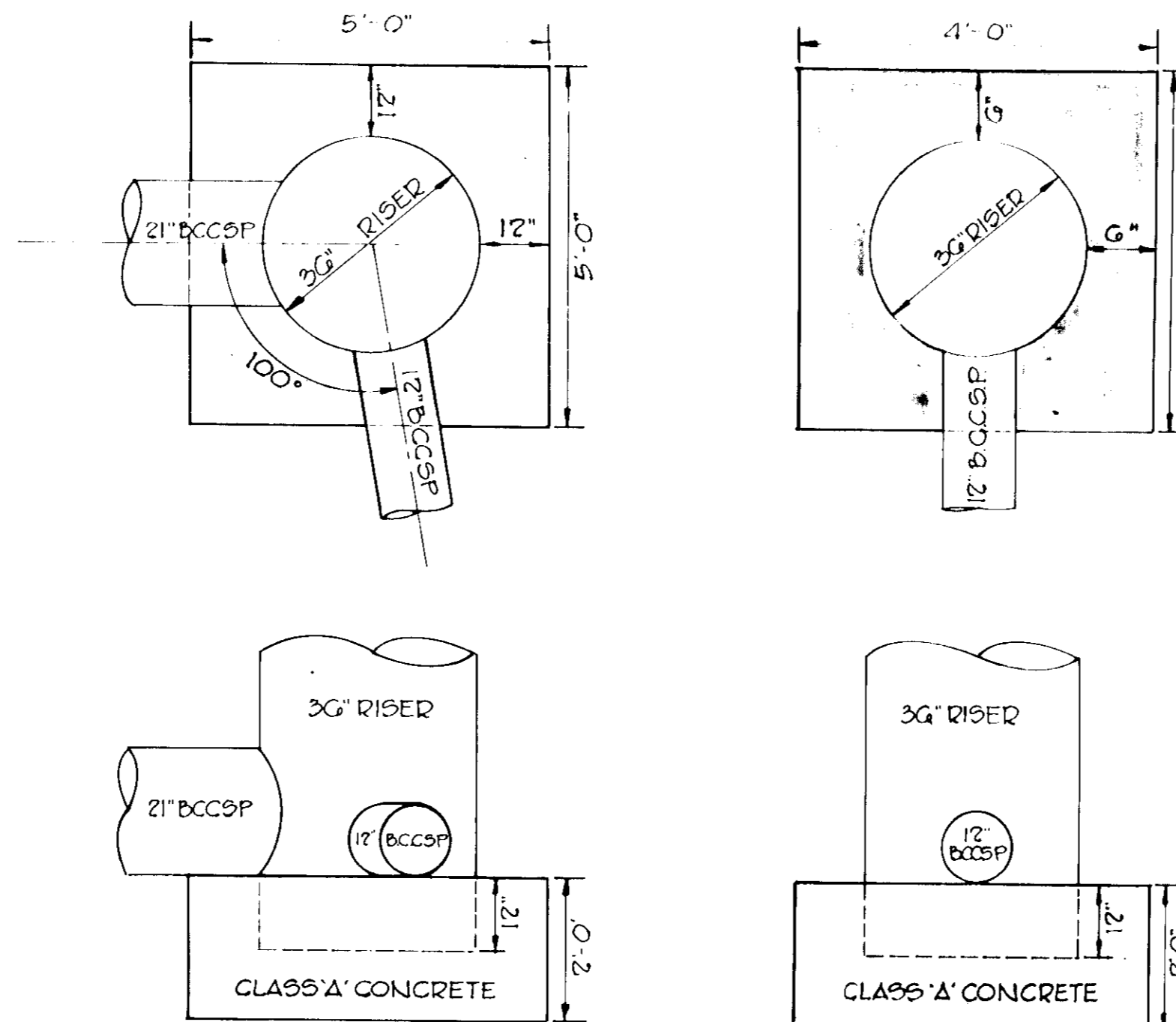
COMBINATION CURB AND GUTTER

NO SCALE



PRECAST CONCRETE CURB

NO SCALE

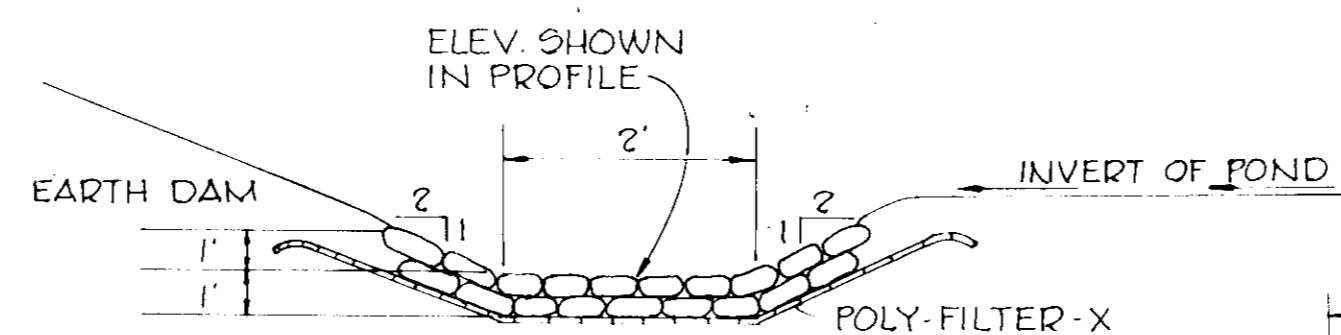


PERMANENT CONCRETE BASE

NO SCALE

TEMPORARY CONCRETE ANCHOR

NO SCALE

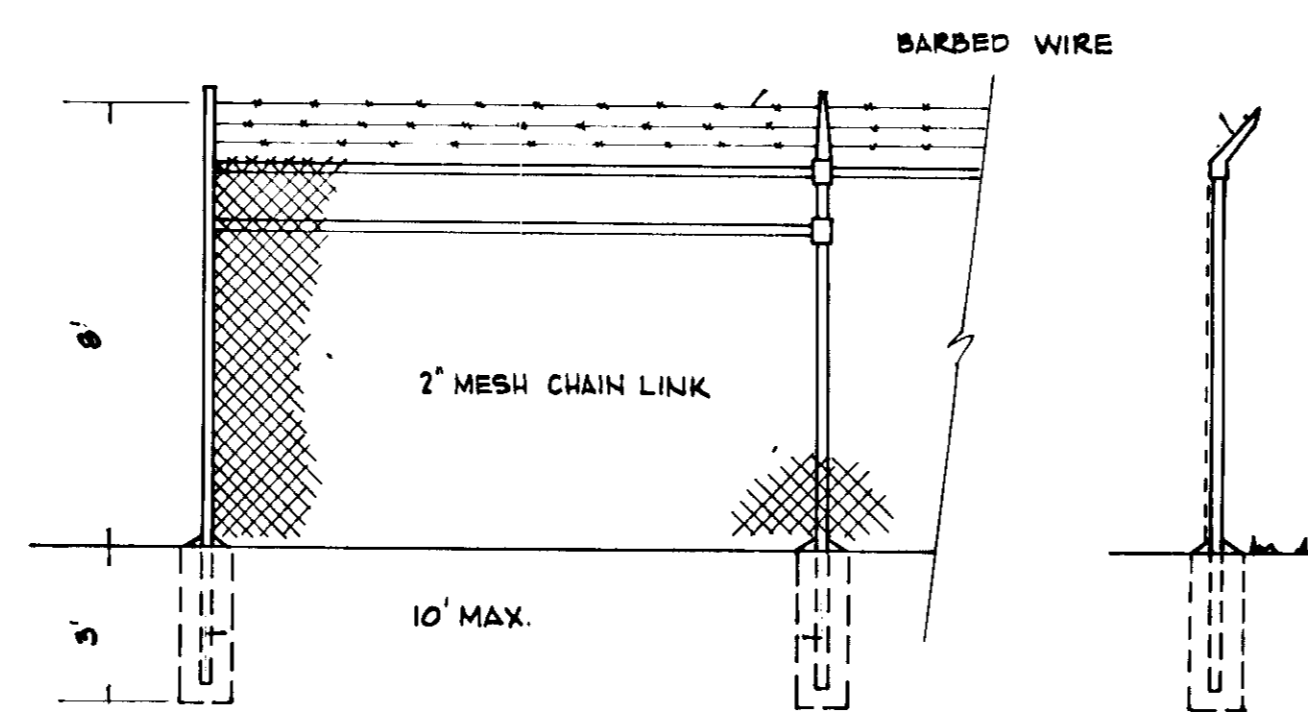


NOTE:

1. RIPRAP TO BE 6" IN DIAMETER AND RESISTANT TO THE ACTION OF WATER.
2. A TWO FOOT DEEP TOEWALL IS REQUIRED AT EACH END OF CHANNEL.
3. BEFORE PLACING RIPRAP LINE CHANNEL W/ POLY FILTER-X, MFG'D BY CARTHAGE MILLS, INC., EROSION CONTROL DIV. 124 W. 66TH STREET, CINC. OHIO OR EQUIV.

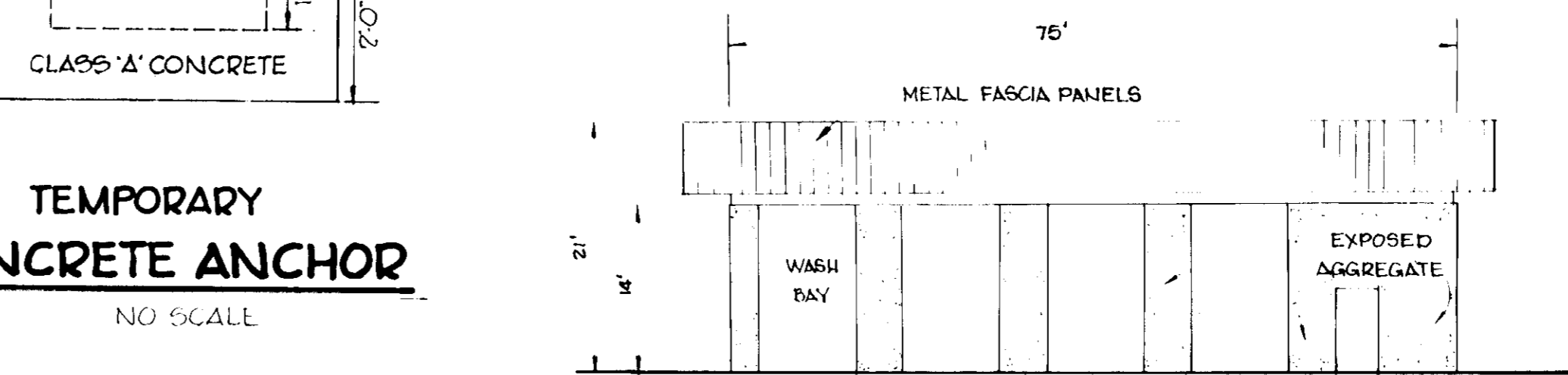
RIPRAP CHANNEL SECTION

NO SCALE



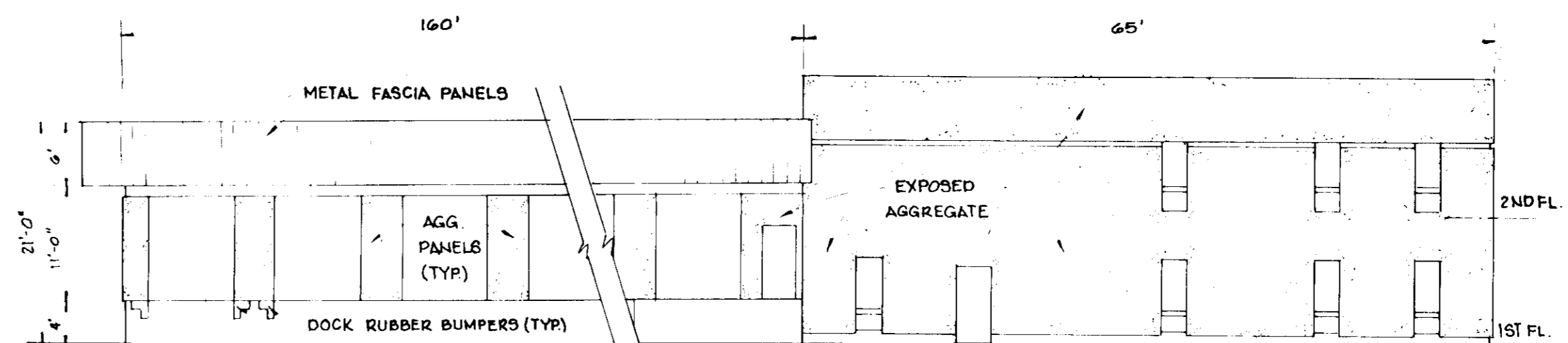
8' FENCE

NO SCALE



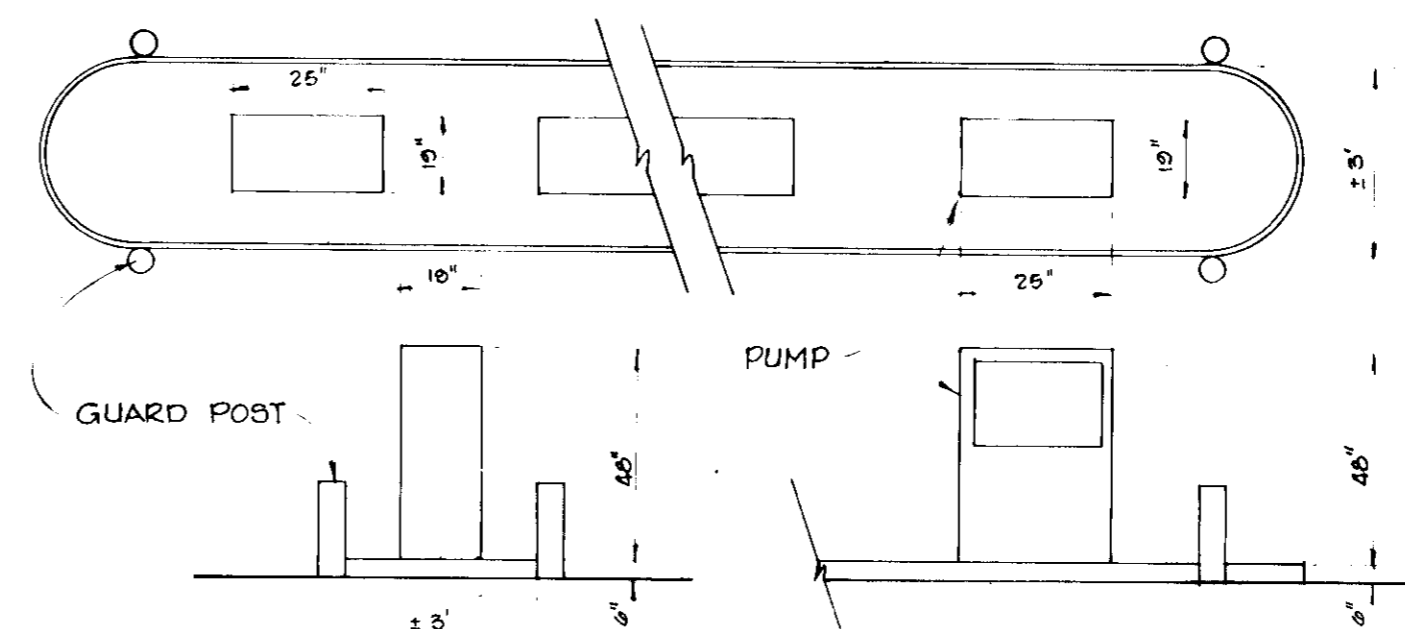
ELEVATION SHOP

NO SCALE



ELEVATION TERMINAL AND OFFICE

NO SCALE



FUEL SERVICING ISLAND

NO SCALE

CERTIFICATION BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Herb Driggs 7/22/77
 Signature of Developer Date

CERTIFICATION BY THE ENGINEER
 "I CERTIFY THAT THIS PLAN FOR PONDS, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SOIL CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT". I HAVE ALSO INFORMED THE OWNER OF HIS RESPONSIBILITY TO HAVE CONSTRUCTION SUPERVISED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.

Robert R. Platt 7-22-77
 Signature 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.

O. Wayne Ray 7-27-77
 U.S. Soil Conservation Service Date

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

APPROVED: *John D. Myers* 7-27-77
 Howard S.C.D. Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
P. J. [Signature] 8-2-77
 Director Date

Chief Bureau of Highways Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

John [Signature] 8/10/77
 Planning Director Date
Bill [Signature] 7-29-77
 Chief, Division of Land Development Date

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

Joyce [Signature] 8-8-77
 County Health Officer Date

Date	No	Revision Description

DIGNAN TRUCKING, INC.
 1st. ELECTION DISTRICT - HOWARD CO. MD.

OWNER AND DEVELOPER
 DIGNAN TRUCKING, INC.
 3210 HAMMONDS FERRY ROAD
 BALTIMORE, MARYLAND 21219

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA
 HARWOOD INDUSTRIAL PARK SECTION 2
 PLAT BOOK 25 - FOLIO 50 - TAX MAP 38 - PARCEL 'A'

TITLE
 SITE DETAILS

Des By	F.T.	Scale	AS SHOWN	Proj No	6676
Drn By	F.T.	Date	3-21-77	Drawing No.	4 OF 6
Chk By		Approved			

7-22-77
 Date

Robert R. Platt
 Professional Engr. No.

SEDIMENT CONTROL CONSTRUCTION NOTES

GENERAL NOTES

1. A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (465-5000 EXT. 365).
2. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
3. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
4. ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
5. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.
6. FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
7. 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.
8. REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
9. ALL PIPES IN OPEN TRENCHES DISCHARGING INTO OUT PARCELS SHALL BE PLUGGED WITH PLYWOOD AND SANDBAG BULKHEAD AT THE END OF EACH DAYS WORK.

PERMANENT SEEDING

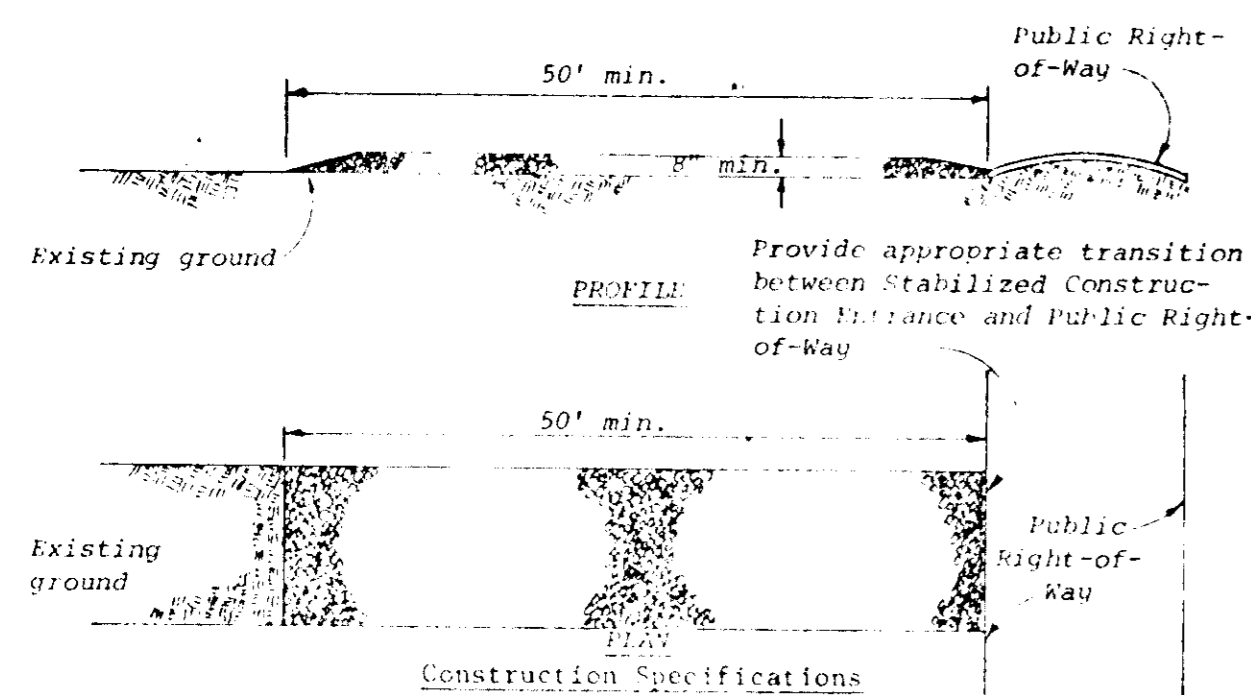
- FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:
- A. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
 - B. APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
 - C. SEED FLAT AREAS WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE. SEED ALL SLOPES WITH A MIXTURE OF INOCULATED CROWNVECH @ 15 LBS. PER ACRE; AND CERTIFIED KENTUCKY 31 TALL FESCUE AT 40 LBS. PER ACRE. WHERE SLOPE RATE IS 3:1 OR GREATER.
 - D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS. PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

TEMPORARY SEEDING

- AREA TO BE SEEDD SHALL BE RECENTLY LOOSENEED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.
- A. APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
 - B. WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
 - C. WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, MULTIPAKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
 - D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS. PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

SITE ANALYSIS

TOTAL SITE AREA:	11.8 AC.
DISTURBED AREA:	4.8 AC.
ROOF AND PAVING:	3.9 AC.
AREA TO BE VEGETATED:	0.9 AC.

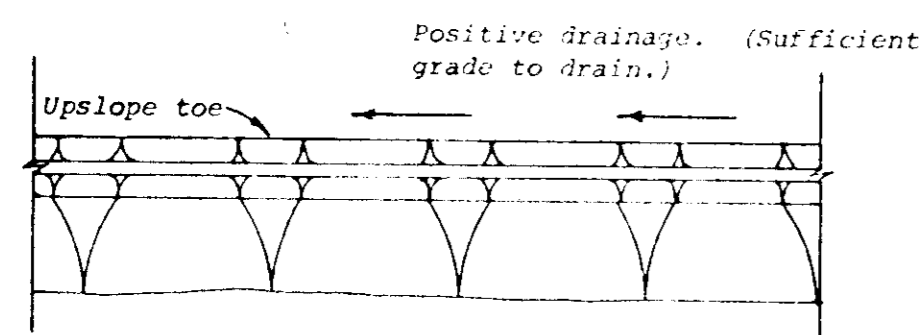
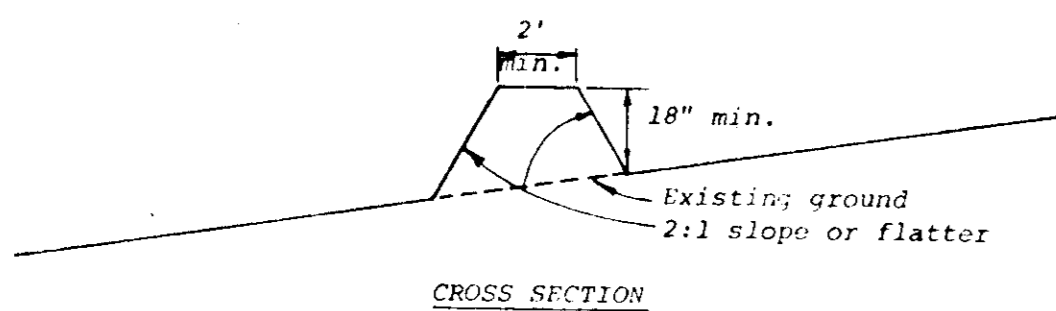


- Construction Specifications**
1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 2. Length - As effective, but not less than 50 feet.
 3. Thickness - Not less than eight (8) inches.
 4. Width - Not less than full width of all points of ingress or egress.
 4. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

Standard Symbol SCE

STABILIZED CONSTRUCTION ENTRANCE

NO SCALE



Construction Specifications

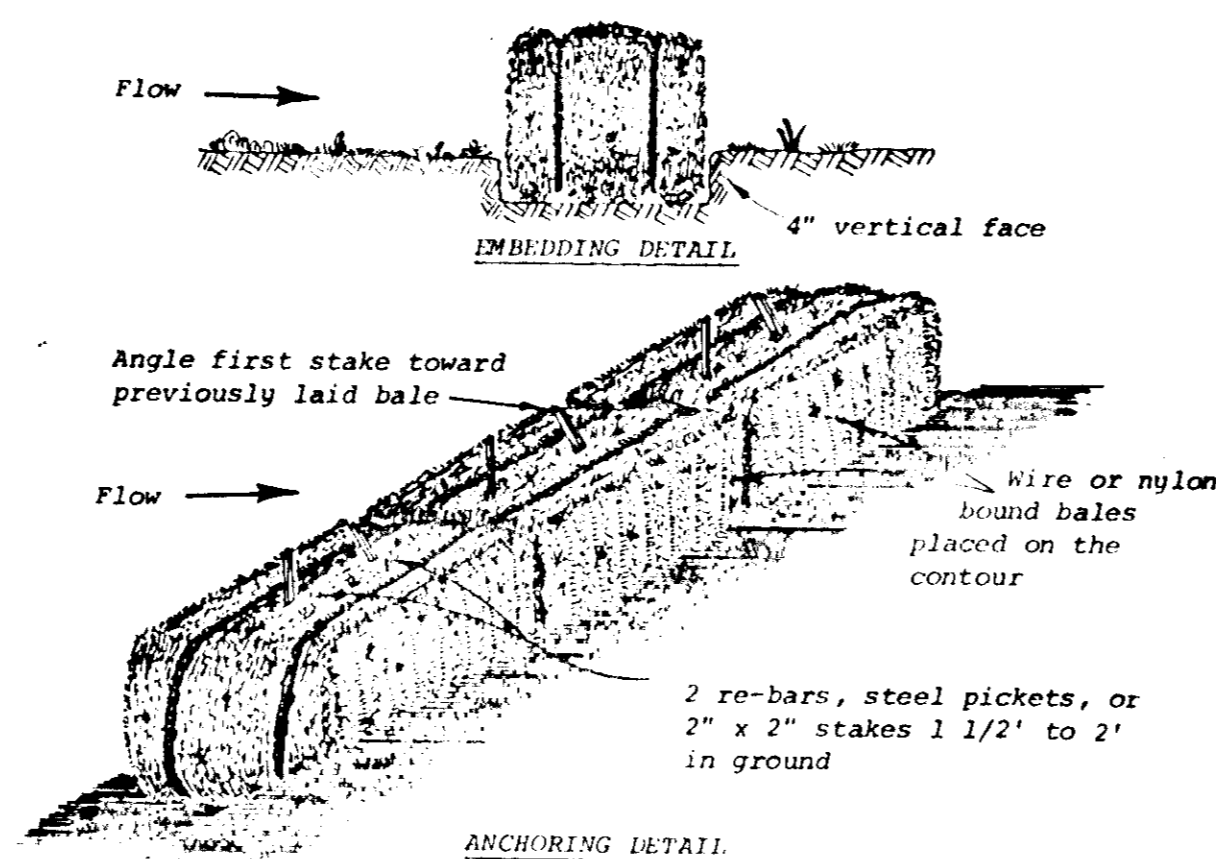
1. All dikes shall be machine compacted.
2. All perimeter dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
- B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol PD

* Drainage area less than 5 acres

PERIMETER DIKE

NO SCALE



Construction Specifications

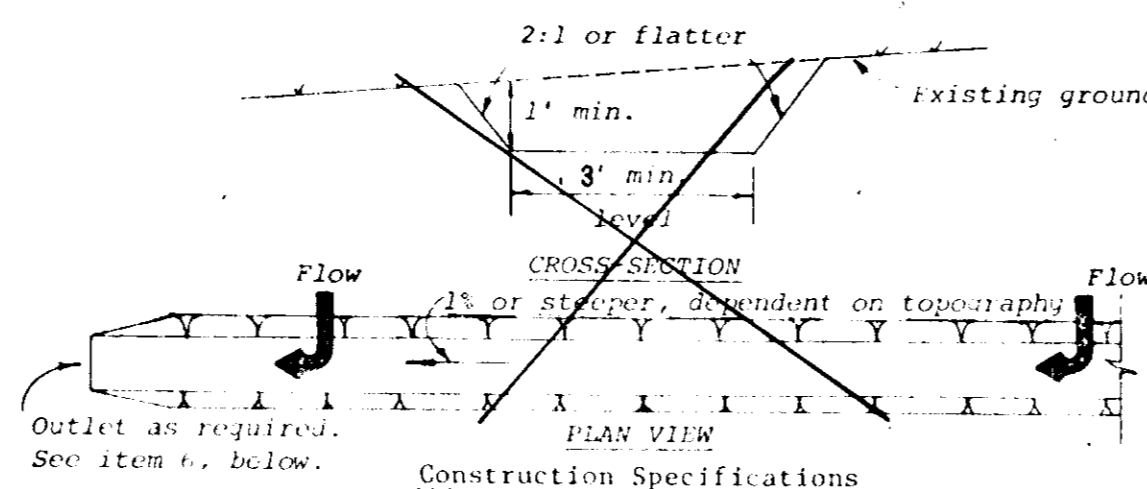
1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

Standard Symbol SBD

* Drainage area less than 1/2 acre.

STRAW BALE DIKE

NO SCALE



1. 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 swale.
2. The swale shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the completed swale.
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the swale.
5. Perimeter swales shall have a minimum grade of one percent and the bottom shall be level.
6. A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area, level spreader or into a grade stabilization structure.
- B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or within an area protected by any of these practices.
7. Stabilization shall be: (1) in accordance with the Standard and Specifications for Grassed Waterway; or (2) by lining the flow area with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 2 1/2 in a layer at least 3 inches in thickness and pressed into the soil. The lining shall extend across the bottom and up both sides of the channel a height of at least 8 inches vertically above the bottom.
8. Periodic inspection and required maintenance shall be provided.

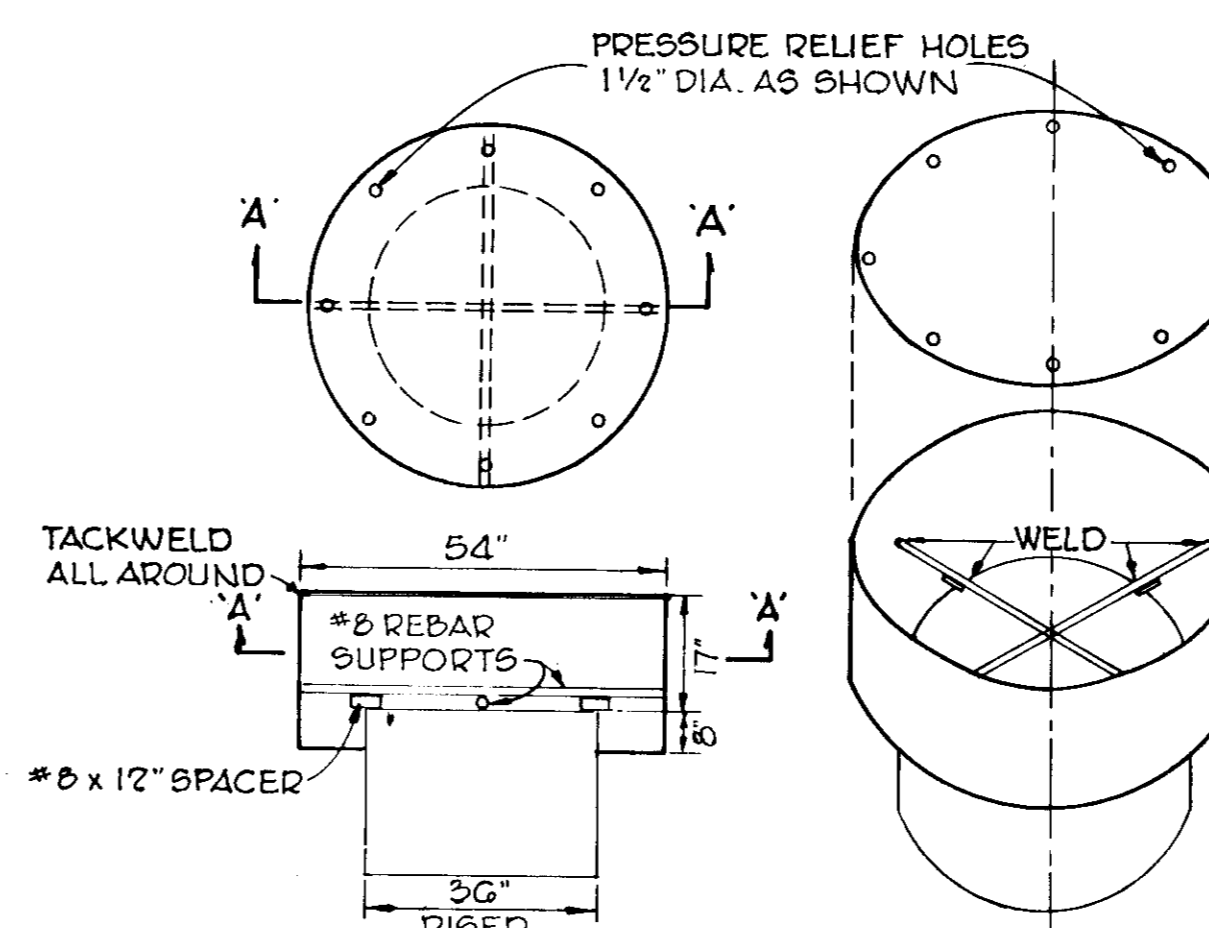
Standard Symbol PS

* Drainage area less than 5 acres

MODIFIED PERIMETER SWALE

NO SCALE

NOT A PART OF THIS CONTRACT



CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE

NO SCALE

TOP IS 14 GA. CORRUGATED METAL OR 1/8" STEEL PLATE. PRESSURE RELIEF HOLES MAY BE OMITTED, IF ENDS OF CORR. ARE LEFT FULLY OPEN WHEN CORR. TOP IS WELDED TO CYLINDER.

CYLINDER IS 14 GA. C.M.P. OR 1/8" STEEL PLATE, FIRMLY FASTENED TO THE TOP OF RISER.

7-13-77
Professional Eng. No.

CERTIFICATION BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF CONTROL AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature of Developer 7/22/77
Date

CERTIFICATION BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR PONDS, 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". I HAVE ALSO INFORMED THE OWNER OF HIS RESPONSIBILITY TO HAVE CONSTRUCTION SUPERVISED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.

Signature 7-22-77
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.

Signature 7-27-77
Date
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.

APPROVED:
John D. Meyer 7-27-77
Date
Howard S.C.D.

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

Director 8-2-77
Date

Chief Bureau of Highways 8/1/77
Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Planning Director 8/18/77
Date

Chief, Division of Land Development 7/28/77
Date

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

County Health Officer 8-8-77
Date

Date	No.	Revision	Description

DIGNAN TRUCKING, INC.
1st. ELECTION DISTRICT - HOWARD COUNTY, MD.

OWNER AND DEVELOPER
DIGNAN TRUCKING, INC.
3210 HAMMONDS FERRY ROAD
BALTIMORE, MARYLAND 21219

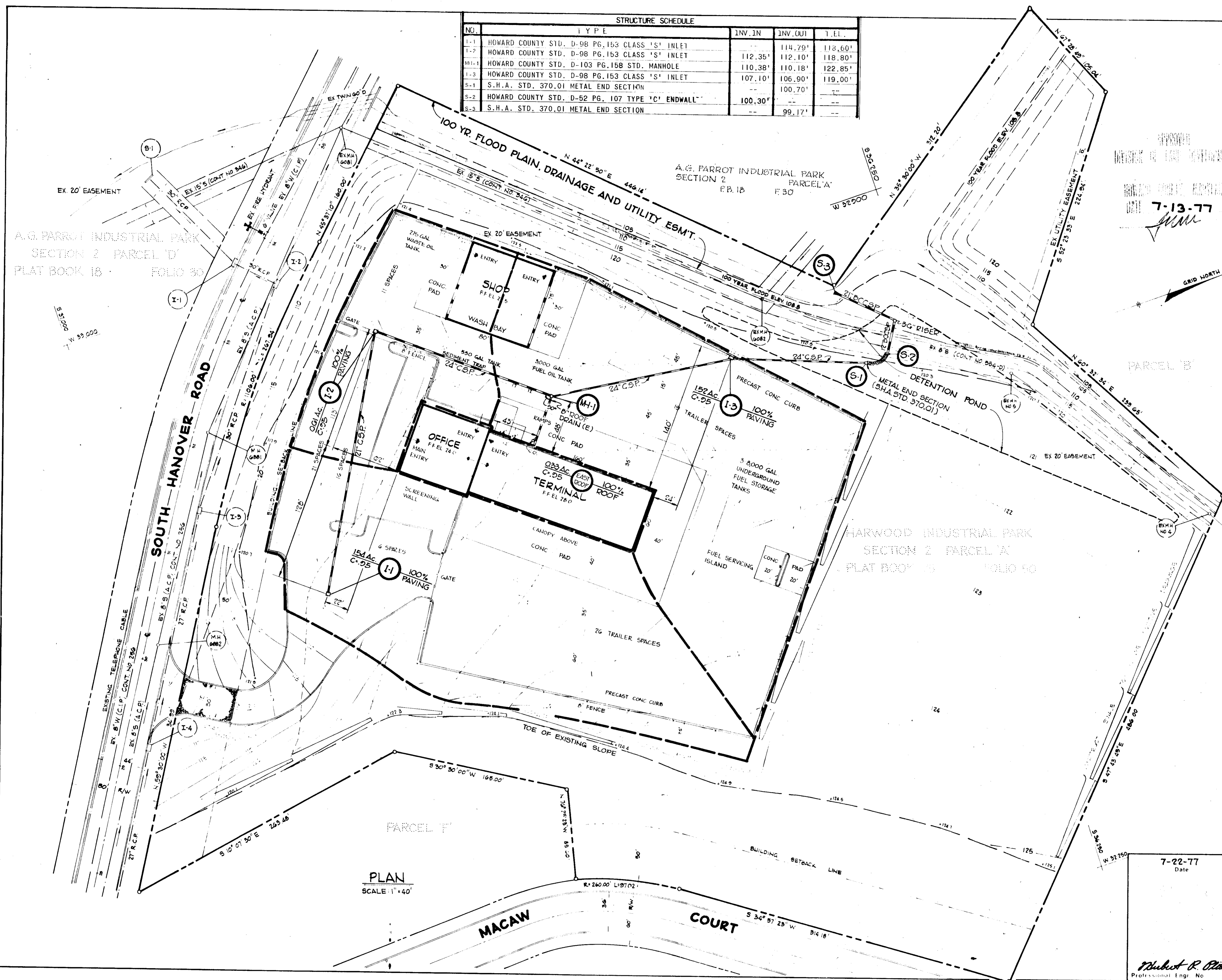
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21286

AREA
HARWOOD INDUSTRIAL PARK SECTION 2
PLAT BOOK 25 - FOLIO 50 - TAX MAP 38 - PARCEL 'A'

TITLE
SEDIMENT CONTROL DETAILS

Des. By F.T.	Scale AS SHOWN	Proj. No. 6676
Drawn By F.T.	Date 3-21-77	Drawing No. 5 OF 6
Chk. By	Approved	

STRUCTURE SCHEDULE			
NO.	TYPE	INV. IN	INV. OUT
1-1	HOWARD COUNTY STD. D-98 PG. 153 CLASS 'S' INLET	---	114.79'
1-2	HOWARD COUNTY STD. D-98 PG. 153 CLASS 'S' INLET	112.35'	118.80'
MH-1	HOWARD COUNTY STD. D-103 PG. 158 STD. MANHOLE	110.38'	122.85'
1-3	HOWARD COUNTY STD. D-98 PG. 153 CLASS 'S' INLET	107.10'	119.00'
S-1	S.H.A. STD. 370.01 METAL END SECTION	---	100.70'
S-2	HOWARD COUNTY STD. D-52 PG. 107 TYPE 'C' ENDWALL	---	99.17'
S-3	S.H.A. STD. 370.01 METAL END SECTION	---	---



PLAN
SCALE: 1" = 40'

CERTIFICATION BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.
Paul Driggs 7-22-77
 Signature of Developer Date

CERTIFICATION BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR PONDS, 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". I HAVE ALSO INFORMED THE OWNER OF HIS RESPONSIBILITY TO HAVE CONSTRUCTION SUPERVISED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
Hubert R. Platt 7-22-77
 Signature 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.
P. Wayne Ray 7-27-77
 Signature Date
 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.
 APPROVED: *John D. Mays* 7-27-77
 Signature Date
 Howard S.C.D.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Thomas H. Weathers 8-2-77
 Signature Date
 Director
 Chief Bureau of Highways

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John H. Clawson 8/1/77
 Signature Date
 Planning Director
Richard W. Hester 7-29-77
 Signature Date
 Chief, Division of Land Development

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boylen 8-8-77
 Signature Date
 Health Officer

Date	No.	Revision Description

DIGNAN TRUCKING, INC.
 1ST. ELECTION DISTRICT - HOWARD CO. MD.
 OWNER AND DEVELOPER
 DIGNAN TRUCKING, INC.
 3210 HAMMONDS FERRY ROAD
 BALTIMORE, MARYLAND 21219

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21284

AREA
 HARWOOD INDUSTRIAL PARK SECTION 2
 PLAT BOOK 25 - FOLIO 50 - TAX MAP 36 - PARCEL 'A'

TITLE
 DRAINAGE AREA MAP

Des. By: I.L.L. Scale: AS SHOWN Proj. No. 6676
 Dwn. By: I.L.L. Date: 3-21-77 Drawing No.
 Chk. By: Approved 6 OF 6

7-22-77
 Date

Hubert R. Platt
 Professional Engr. No.