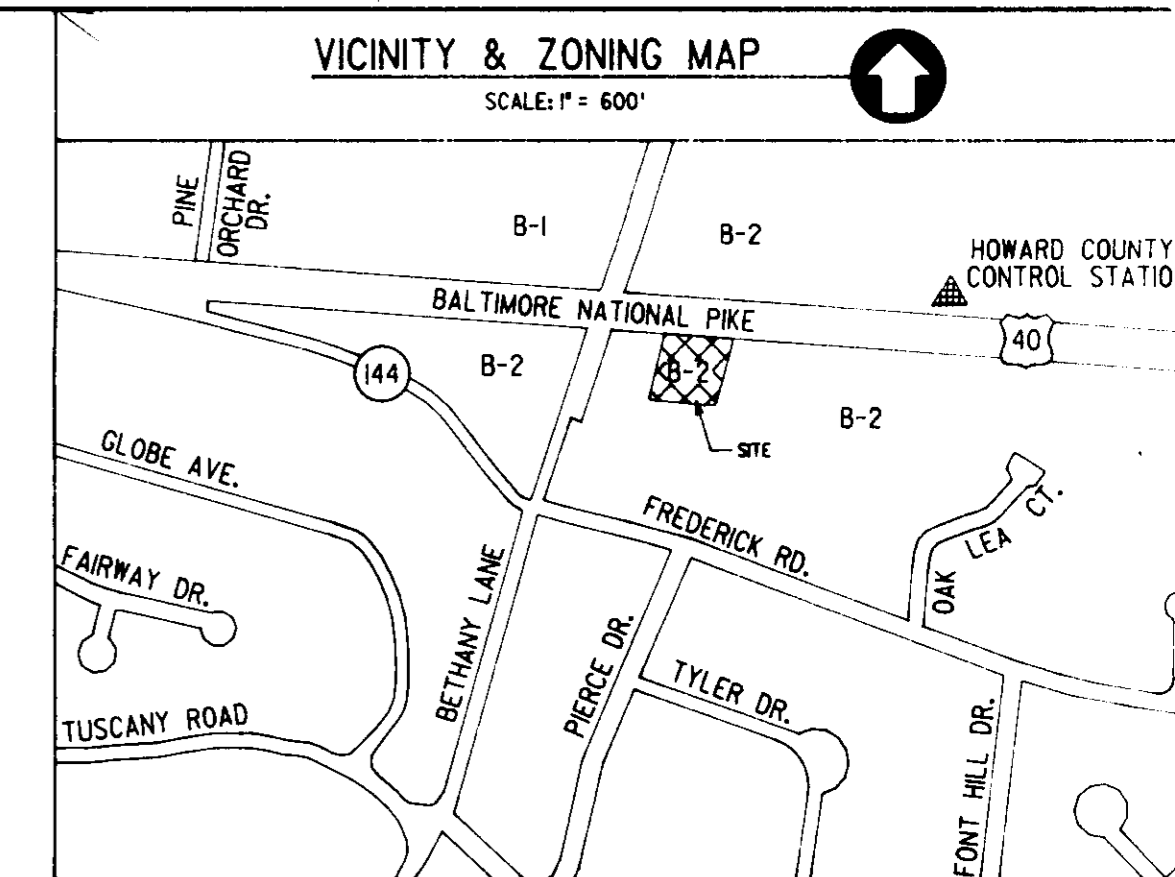


SOUTHERN STATES COOPERATIVE

HOWARD COUNTY PETROLEUM SERVICE

FUEL FACILITY

ELLICOTT CITY, MARYLAND



HOWARD COUNTY CONTROL STATION LOCATED 0.10 MILE +/- EAST OF BETHANY LANE.
 LOCALITY: ENCHANTED FOREST SHOPPING CENTER.
 MARK IS A: CONCRETE MONUMENT. DATE SET: 6/92
 STATION: 24AA STAMPED: 24AA

PERMIT INFORMATION BLOCK					
Property Name	SOUTHERN STATES		Section/Area	N/A	
L/F	Block #	Zone	Tax/Zone Map	Elec. Dist.	Census Tract
MWB 198/226	2	B-2	24	2nd	6023.01
Water Code	F14		Sewer Code	5440000	

ADDRESS CHART	
Lot Number	Street Address
PARCEL 67	10065 BALTIMORE NATIONAL PIKE (U.S. ROUTE 40)

OWNER: SOUTHERN STATES PETROLEUM COOPERATIVE, INC.
 P. O. BOX 26234
 RICHMOND, VIRGINIA 23260

BA CASE NO. 93-32E
 SDP-94-88

DRAWING TITLE INDEX		
SHEET	DWG.	TITLE
1	TS-1	TITLE SHEET
2	C-1	SITE LAYOUT PLAN
3	C-2	GRADING/UTILITIES PLAN
4	C-3	SOIL EROSION AND SEDIMENT CONTROL PLAN
5	C-4	DRAINAGE AREA MAP
6	C-5	DETAILS
7	C-6	DETAILS
8	C-7	DETAILS
9	LS-1	LANDSCAPE PLAN



LOCATION MAP
 SCALE: 1" = 3 MILES

APPROVED:	FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	PLAN APPROVAL STAMP
<i>James M. B...</i>	1/3/95 DATE	
<i>James M. B...</i>	1/10/95 DATE	
<i>John J. ...</i>	1/15/94 DATE	
<i>James M. B...</i>	12/28/94 DATE	

OVERLAY CONTROL	REV.	DATE	BY	APP.	DESCRIPTION



Wiley & Wilson
 ARCHITECTS ENGINEERS PLANNERS
 6620 W. Broad Street Road
 Suite 250
 Richmond, Virginia 23230
 (804) 282-5417

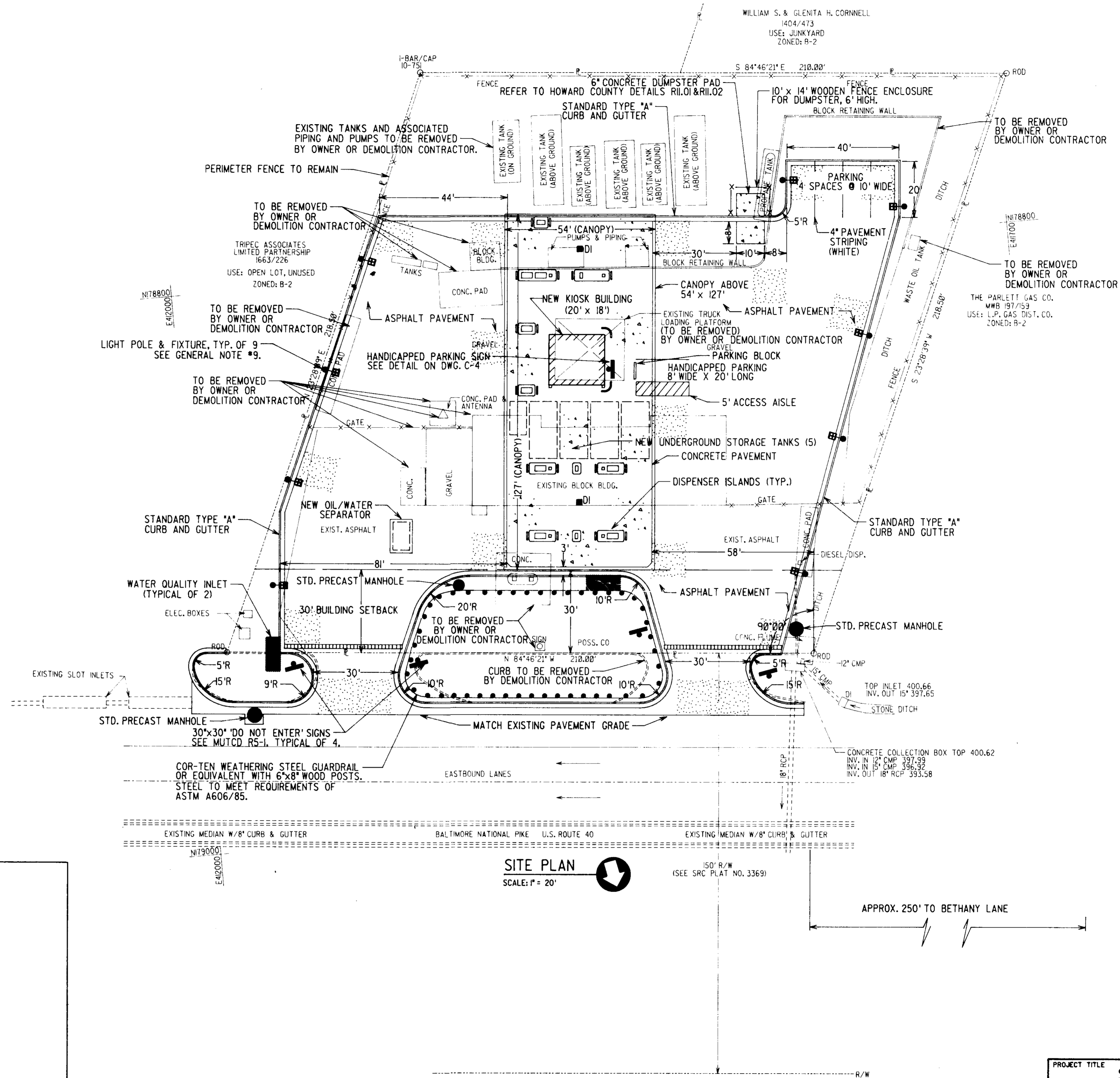


PROJECT TITLE			
SOUTHERN STATES HOWARD COUNTY PETROLEUM COOPERATIVE, INC.			
DEED REF: MWB 198/226	CENSUS TRACT NO: 6023.01		
ELECTION DISTRICT NO: 2	HOWARD COUNTY, MARYLAND		
DESIGNED W&W	DRAWN MPM	TAX MAP: 24, BLOCK 2	PARCEL: 67
CHECKED W&W	REVIEWED NBD	WATER CODE: F14	SEWER CODE: 5440000
APPROVED JDC	FILE NO.	REFERENCE	
COMM. NO. 93716.00	SHEET TITLE TITLE SHEET		
DATE OCTOBER 7, 1994	DWG. NO. TS-1	SHEET NO. 1 OF 9	REV. 0

SDP-94-88

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- THE CONTRACTOR SHALL CONTACT THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION 24 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION AT (410) 313-1880.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AT THE SITE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- TOPOGRAPHIC SURVEY PERFORMED BY L.G. WOLFF AND ASSOCIATES, INC. OF BEL AIR, MD., NOVEMBER, 1992. BENCHMARK DISK IN CONCRETE MONUMENT 1/3 EAST OF THE EAST END OF THE LITTLE PATUXENT RIVER BRIDGE, (1970), HOWARD CO. CONTROL B.M. #3241002, ELEV. 354.602. SITE BENCH MARK: TOP NUT ON FIRE HYDRANT LOCATED APPROX. 12 FEET EAST OF THE EASTERNMOST ENTRANCE TO THE PROPERTY. ELEV. 339.37. CONTOUR INTERVAL = 1 FOOT.
- PUBLIC WATER AND SEWER IS USED ON THIS PROJECT. WATER CONTRACT NUMBER: 131-W. SEWER CONTRACT NUMBER: 411-S.
- THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE PLOTTED FROM AVAILABLE RECORDS AND SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEFINITE LOCATION OF EACH UTILITY INVOLVED WITHIN THE AREA OF HIS EXCAVATION FOR WORK UNDER THIS CONTRACT.
- LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROADS AND BRIDGES. LIGHTING SHALL BE DIRECTED DOWNWARD AND INWARD SO AS NOT TO SHINE OR REFLECT ONTO ADJACENT PROPERTIES OR ROADS.
- THE OWNER SHALL BE RESPONSIBLE FOR PLACING "TRUCK ONLY" OR "CAR ONLY" SIGNS TO DESIGNATE THE USE OF THE FUEL ISLANDS.
- SOIL BORINGS AND OTHER GEOTECHNICAL WORK SHALL BE PERFORMED AT THE TIME OF CONSTRUCTION.
- ALL AREAS ON THIS PROPERTY OTHER THAN THE DESIGNATED ENTRANCE AND EXIT ARE RESTRICTED TO VEHICULAR ACCESS.
- THE STORMWATER MANAGEMENT FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED.



SITE ANALYSIS:

SITE ADDRESS: 10065 BALTIMORE NATIONAL PIKE (U.S. ROUTE 40) ELLICOTT CITY, MARYLAND
 BA CASE NO. 93-32E
 DECISION AND ORDER SIGNATURE DATE: NOVEMBER 22, 1993
 AREA OF PARCEL: 1.00 AC., 43,560 S.F.
 PRESENT ZONING: B-2, SEE BA CASE NO. 93-23E
 PROPOSED USE OF STRUCTURE: RETAIL FUEL SALES
 MAXIMUM NUMBER OF EMPLOYEES: 1
 NUMBER OF PARKING SPACES REQUIRED: 3
 NUMBER OF PARKING SPACES PROVIDED: 4
 AREA OF POST DEVELOPMENT IMPERVIOUS SURFACE: 27,713 S.F.
 OPEN SPACE (GREEN AREA) TO REMAIN: 15,847 S.F.
 % OF GROSS AREA: 36
 BUILDING COVERAGE OF SITE: 360 S.F.
 % OF GROSS: 0.83
 AREA OF CANOPY: 6,858 S.F.
 (COVERS 100% OF BUILDING.)
 SRC PLAT NO.: 3369
 OWNER: SOUTHERN STATES PETROLEUM COOPERATIVE, INC.
 P.O. BOX 26234
 RICHMOND, VIRGINIA 23260
 (804) 282-1274
 PETITIONER: SAME AS OWNER
 ATTORNEY: GUIDA & EAGAN, P.A.
 SUITE 700, COMMERCE CENTER
 10320 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 PROJECT ENGINEER: WILEY & WILSON
 6620 W. BROAD STREET
 SUITE 250
 RICHMOND, VIRGINIA 23230
 HOWARD COUNTY SDP-94-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	PLAN APPROVAL STAMP
<i>James M. B...</i> 1/3/95 DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>James M. B...</i> 1/10/95 DATE	
APPROVED: DIVISION OF LAND AND DEVELOPMENT AND RESEARCH	
<i>James M. B...</i> 1/5/95 DATE	
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>James M. B...</i> 12/22/94 DATE	
<i>Charles R. Anderson</i> 12/29/94 DATE	

REV.	DATE	BY	APP.	DESCRIPTION



Wiley & Wilson
 ARCHITECTS ENGINEERS PLANNERS
 6620 W. Broad Street Road
 Suite 250
 Richmond, Virginia 23230
 (804) 282-5417



PROJECT TITLE SOUTHERN STATES HOWARD COUNTY PETROLEUM COOPERATIVE, INC.			
DEED REF: MWB 198/226	CENSUS TRACT NO: 6023.01		
ELECTION DISTRICT NO: 2	HOWARD COUNTY, MARYLAND		
DESIGNED MPM	DRAWN MPM	TAX MAP: 24, BLOCK 2	PARCEL: 67
CHECKED WMD	REVIEWED NBD	WATER CODE: F14	SEWER CODE: 5440000
APPROVED JDC	FILE NO.	REFERENCE	CIVIL
COMM. NO. 93716.00	SHEET TITLE SITE LAYOUT PLAN		
DATE OCTOBER 7, 1994	DWG. NO. C-1	SHEET NO. 2 OF 9	REV. 0

**HOWARD COUNTY BOARD OF APPEALS
DECISION AND ORDER CONDITIONS**

- IN ACCORDANCE WITH BA CASE NO. 93-32E, DECISION AND ORDER CONDITION:
 NUMBER 2 - "ALL LIGHTING SHALL BE DOWNWARD AND INWARD SO AS NOT TO SHINE OR REFLECT ONTO ADJACENT PROPERTIES OR ROADS."
 NUMBER 3 - "THE DUMPSTER SHALL BE ENCLOSED AND LANDSCAPED IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL."
 NUMBER 4 - "THE PETITIONER SHALL LANDSCAPE THE SUBJECT PROPERTY IN ACCORDANCE WITH THE SPECIAL EXCEPTION PLAN, ENTITLED 'GRADING/EROSION CONTROL/UTILITIES PLAN,' SUBMITTED WITH PETITION."

LITHONIA CAT. # KAD-R4-240-5809-DF-DNB-HS WITH TENON MOUNTING 125-190S POLE SHALL BE ROUND TAPERED ALUMINUM LITHONIA CATALOG NO. RTAE-209G-9.1x5.29x23.0x.188-125-DOB. MOUNT IN CONCRETE PER VENDOR'S INSTRUCTIONS. (TYP. OF 9)

ELECTRICAL NOTES

- TWO CONTRACTOR SUPPLIED 4" PVC DIRECT BURIAL CONDUITS FOR POWER COMPANY SUPPLIED CABLES. PROVIDE 4" RSC ABOVE GRADE TO POWER COMPANY SUPPLIED, CONTRACTOR INSTALLED, METER BASE. CONTRACTOR SHALL CONFIRM SERVICE PROVISIONS WITH POWER COMPANY BASED ON FINAL TOTAL LOAD.
- 4" PVC DIRECT BURIAL CONDUIT UNDER PAVEMENT ALONG EAST SIDE OF PROPERTY BY CONTRACTOR FOR POWER COMPANY PROVIDED PRIMARY CABLE FROM NORTHEAST CORNER OF SITE TO TRANSFORMER PRIMARY. CABLE WILL BE DIRECT BURIED IN NON PAVED AREAS.
- 3" PVC DIRECT BURIAL CONDUIT FOR TELEPHONE CABLE UNDER PAVED AREAS. PROVIDE SWEEPING BEND IN CONDUIT. PROVIDE 3" RSC ABOVE GRADE AT THE INTERFACE BOX.
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND "A-24" CONTINUATION.

REFER TO TOE OF SLOPE DITCH SECTION ON DWG. C-5
 CAPPED
 PROVIDE CURB OPENING REFER TO DETAIL ON DWG. C-5.

THIPEC ASSOCIATES LIMITED PARTNERSHIP 1663/226
 USE: OPEN LOT, UNUSED ZONED: B-2

SEE ELEC. NOTE #2

SEE ELEC. NOTE #3

SEE ELEC. NOTE #4

SITE PLAN

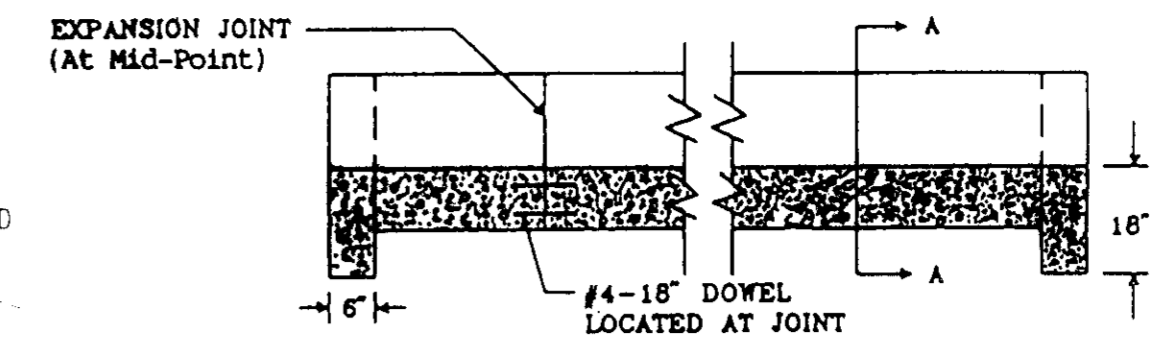
SCALE: 1" = 20'

NUMBER	TYPE	GRATE EL.	LENGTH, FT	INV. IN	INV. OUT	SLOPE
20	SEE INLET DETAIL DWG. C-5	402.00	N/A	N/A	401.50	N/A
21	SEE INLET DETAIL DWG. C-5	402.00	N/A	N/A	401.50	N/A
22	4" DUCTILE IRON	N/A	28	398.45	398.45 AT 8"00	1.0%
23	4" DUCTILE IRON	N/A	52	397.60 AT 8"00	397.60 AT 8"00	0.9%
24	4" DUCTILE IRON	N/A	60	397.60	397.00	1.0%
25	4" DUCTILE IRON	N/A	62	398.30	397.04	2.0%
26	4" DUCTILE IRON	N/A	25	397.50	396.75 AT 8"00	3.0%
27	4" DUCTILE IRON	N/A	134	396.75 AT 8"00	390.07	4.95%

CLEAN OUT NOTE: THIS CLEAN OUT SHALL CONFORM TO HOWARD COUNTY STANDARD S 2.22. ALL OTHER CLEAN OUTS SHALL CONFORM TO THE DETAIL ON C-5.

NUMBER	TYPE	GRATE EL.	LENGTH, FT	INV. IN	INV. OUT	SLOPE
1	ACO TRENCH DRAIN, #G200	398.04	42	397.56	397.12	*
2	6" PVC PIPE, SCH. 40	N/A	2	397.12	397.04	2.0%
3	WATER QUALITY INLET	SLOT INLET EL. 397.88	2	397.04	392.07	N/A
4	18" RCP, 16 GA.	N/A	16	392.07	391.75	2.0%
5	STANDARD PRECAST MANHOLE	TOP EL. 395.00	N/A	391.75	391.65	N/A
6	18" RCP, 16 GA.	N/A	20	391.65	391.25	2.0%
7	ACO TRENCH DRAIN, #G200	399.80	42	399.26	398.82	**
8	8" PVC PIPE, SCH. 40	N/A	40	398.74	398.34	1.0%
9	6" DUCTILE IRON	N/A	36	399.28	398.92 AT 8"00	1.0%
10	6" DUCTILE IRON	N/A	36	399.98	399.62 AT 8"00	1.0%
11	6" DUCTILE IRON	N/A	140	398.82 AT 8"00	398.30	0.94%
12	WATER QUALITY INLET	SLOT INLET EL. 398.24	5	398.24	397.50	N/A
13	18" RCP, CLASS III	N/A	46	397.50	397.04	1.0%
14	STANDARD PRECAST MANHOLE	TOP EL. 400.60	N/A	397.04	396.94	N/A
15	18" RCP, CLASS III	N/A	10	396.94	396.84	1.0%
16	SEE OUTLET STRUCTURE DETAIL, DWG. C-6					
17	18" RCP, CLASS III	N/A	58	394.50	393.92	1.0%
18	STANDARD PRECAST MANHOLE	TOP EL. 400.70	N/A	393.92	393.82	N/A
19	18" RCP, CLASS III	N/A	12	393.82	393.70	1.0%

* DRAIN HAS BUILT-IN SLOPE OF 1.04%. USE CHANNELS #801 THROUGH #808 WITH CLASS C HEAVY DUTY, GROUP 2 CAST IRON GRATE. USE PART #861 ON THE END OF THE TRENCH. USE A 6" x 8" REDUCER TO CONNECT PART #861 TO THE 8" PVC PIPE.
 ** DRAIN HAS BUILT-IN SLOPE OF 1.04%. USE CHANNELS #801 THROUGH #808 WITH CLASS C HEAVY DUTY, GROUP 2 CAST IRON GRATE. USE PART #861 ON THE END OF THE TRENCH. USE A 6" x 8" REDUCER TO CONNECT PART #861 TO THE 8" PVC PIPE.



SECTION A-A
 REFER TO HOWARD COUNTY STANDARD SD 6.22 FOR WEEP HOLES. TAPER CHANNEL IN 5' TO MATCH THE OUTLET STRUCTURE.
LOW FLOW CHANNEL
 NOT TO SCALE

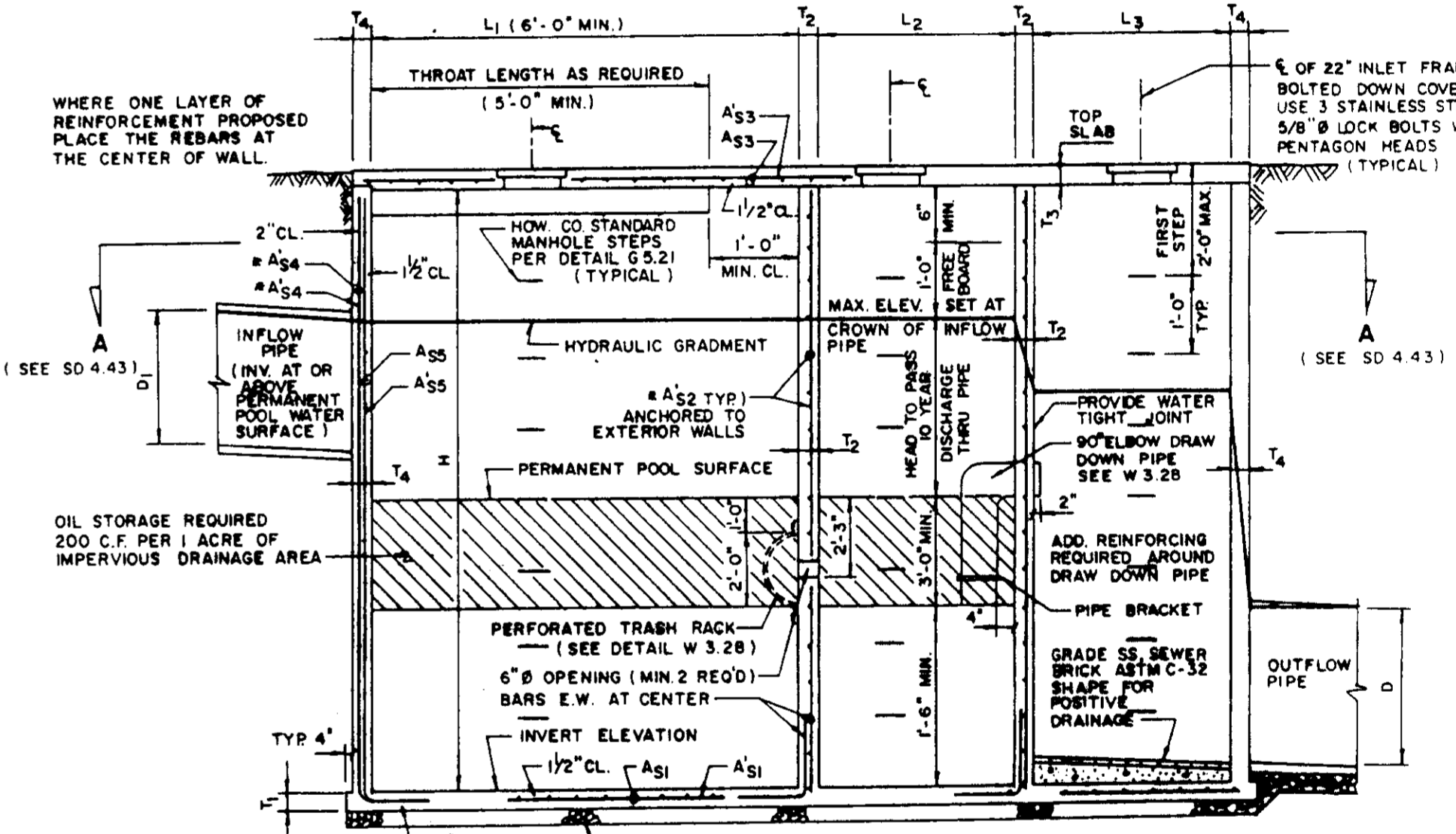
NUMBER	T1	T2	T3	T4	L1	L2	L3	WIDTH	3'-6" DIAMETER OPENINGS ELEV.	DRAWDOWN PIPE SIZE	DRAWDOWN PIPE OUTLET ELEV.	INVERT ELEV.
3	12"	12"	4"	12"	6'	3'	3'	2'-6"	394.59	8"	396.84	392.00
12	12"	12"	4"	12"	6'	3'	3'	4'-6"	396.05	12"	398.30	393.80

PERMANENT POND DATA

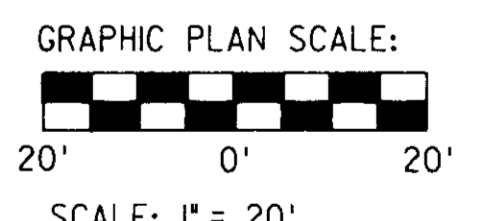
TYPE: DETENTION POND, PRIVATELY OWNED.
 NORMAL POOL ELEVATION, 10 YR. STORM = 398.20
 PEAK STORAGE, 10 YR. STORM = 0.049 AC-FT = 2,127 C.F.
 PEAK INFLOW, 10 YR. STORM = 3.62 CFS
 PEAK OUTFLOW, 10 YR. STORM = 1.82 CFS
 DRAINAGE AREA TO POND: 0.538 AC.
 POOL ELEVATION, 100 YR. STORM = 398.83
 OUTLET STRUCTURE: LOW RISE TWO STAGE WEIR WITH GROUND LEVEL ORIFICE.
 STAGE 1 ELEV. = 397.70
 STAGE 2 ELEV. = 399.20
 WEIR OVERTOPS AT ELEV. = 400.70
 DEWATERING DEVICE: 4 1/2" x 4 1/2" ORIFICE, ELEV. = 394.70
 WATER QUALITY: ACHIEVED BY TWO OIL/GRIT SEPARATORS.

LEGEND

EXISTING	NEW	DESCRIPTION
---	---	BUILDING
---	---	CONTOUR
---	---	DROP INLET
---	---	SANITARY MANHOLE
---	---	STORM MANHOLE
---	---	CLEAN OUT
---	---	WATER VALVE
---	---	FIRE HYDRANT
---	---	WATER METER
---	---	UNDERGROUND ELECTRIC
---	---	UNDERGROUND TELEPHONE
---	---	TRANSFORMER
---	---	LIGHTING STANDARD
---	---	CONCRETE CURB & GUTTER
---	---	STORM SEWER
---	---	SANITARY SEWER
---	---	DOMESTIC WATER
---	---	ASPHALT PAVEMENT
---	---	CONCRETE PAVEMENT
---	---	PROPERTY LINE
---	---	SPOT ELEVATIONS
---	---	UTILITY POLE
---	---	DRAINAGE DESIGNATION
---	---	SILT FENCE
---	---	LIMIT OF DISTURBANCE
---	---	BORING LOCATION AND LABEL



SECTION
 REFER TO HOWARD COUNTY STANDARDS SD 4.02, SD 4.41, AND 4.42 FOR ADDITIONAL INLET INFORMATION.
WATER QUALITY INLET
 NOT TO SCALE



SITE ADDRESS: 10065 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND
 OWNER: SOUTHERN STATES PETROLEUM COOPERATIVE, INC. P.O. BOX 26234 RICHMOND, VIRGINIA 23260
 PROJECT ENGINEER: WILEY & WILSON 6620 W. BROAD STREET SUITE 250 RICHMOND, VIRGINIA 23230
 BA CASE NO. 93-32E
 HOWARD COUNTY SDP-94-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 1/3/95
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 4/16/95
 DIRECTOR

APPROVED: DIVISION OF LAND DEVELOPMENT AND RESEARCH
 [Signature] 1/5/95
 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 12/29/94
 CHIEF, BUREAU OF ENGINEERING

REV.	DATE	BY	APP.	DESCRIPTION

PLAN APPROVAL STAMP
 [Stamp]

Wiley & Wilson
 ARCHITECTS ENGINEERS PLANNERS
 6620 W. Broad Street Road
 Suite 250
 Richmond, Virginia 23230
 (804) 282-5417



PROJECT TITLE			
SOUTHERN STATES HOWARD COUNTY PETROLEUM COOPERATIVE, INC.			
DEED REF: MWB 198/226	CENSUS TRACT NO: 6023.01		
ELECTION DISTRICT NO: 2	HOWARD COUNTY, MARYLAND		
DESIGNED MPM	DRAWN MPM	TAX MAP: 24, BLOCK 2	PARCEL: 67
CHECKED WMD	REVIEWED NBD	WATER CODE: F14	SEWER CODE: 5440000
APPROVED JDC	FILE NO.	REFERENCE	CIVIL
COMM. NO. 93716.00	SHEET TITLE GRADING/EROSION CONTROL/UTILITIES		
DATE OCTOBER 7, 1994	DWG. NO. C-2	SHEET NO. 3 OF 9	REV. 0

SDP-94-88

HOWARD SOIL CONSERVATION DISTRICT
PERMANENT SEEDING NOTES

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, 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 DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS 60 LBS KENTUCKY 31TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/100 SQ. FT.) OF WEEPING LOVEGRASS. FERTILIZER (4 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK 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 DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING -- FOR THE PERIODS MARCH THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31TALL FESCUE. FOR THE PERIOD MAY THRU JULY 31, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/100 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 20, 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 31TALL 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 UNROTTED 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

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, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS -- APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (4 LBS/1000 SQ. FT.).

SEEDING -- FOR PERIODS MARCH THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD OF MAY 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 UNROTTED WEED FREE 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 ADDITIONAL RATES AND METHODS NOT COVERED.

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

SIGNATURE OF DEVELOPER _____ DATE _____

PRINT NAME _____

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

W. M. Twidige
SIGNATURE OF ENGINEER _____ DATE 12/9/94

PRINT NAME _____

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

W. M. Twidige
SIGNATURE OF ENGINEER _____ DATE 12/23/94

U.S. SOIL CONSERVATION SERVICE

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

W. M. Twidige
SIGNATURE OF ENGINEER _____ DATE 12/23/94

HOWARD SOIL CONSERVATION DISTRICT

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

J. M. Boudlerperger
SIGNATURE OF HEALTH OFFICER _____ DATE 1/3/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

W. M. Twidige
SIGNATURE OF DIRECTOR _____ DATE 1/10/95

APPROVED: CHIEF, DIVISION OF PLANNING AND DEVELOPMENT AND RESEARCH

W. M. Twidige
SIGNATURE OF CHIEF _____ DATE 1/5/95

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

W. M. Twidige
SIGNATURE OF DIRECTOR _____ DATE 12/29/94

CHIEF, BUREAU OF ENGINEERING, DESIGN

TEMPORARY POND DATA

TYPE: DETENTION POND, OUTLET STRUCTURE MODIFIED DURING CONSTRUCTION TO ALTER THE POND TO SERVE AS A TEMPORARY SEDIMENT TRAP. REFER TO DWGS. C-5 AND C-6.

DRAINAGE AREA TO POND: 0.867 AC.

STORAGE REQUIRED: 3,600 C.F./AC. x 0.867AC. = 3,122 C.F.

TOTAL STORAGE PROVIDED: 3,213 C.F. @ ELEV. 399.20 (WEIR FLOW BEGINS)

WET STORAGE REQUIRED: 1800 C.F./AC. x 0.867AC. = 1,561 C.F.

WET STORAGE PROVIDED: 1,669 C.F. @ ELEV. 397.70 (ORIFICE ELEV.)

SEDIMENT CLEAN OUT ELEV. = 396.52 (2.68' BELOW WEIR ELEV.)

WEIR ELEV.: 399.20

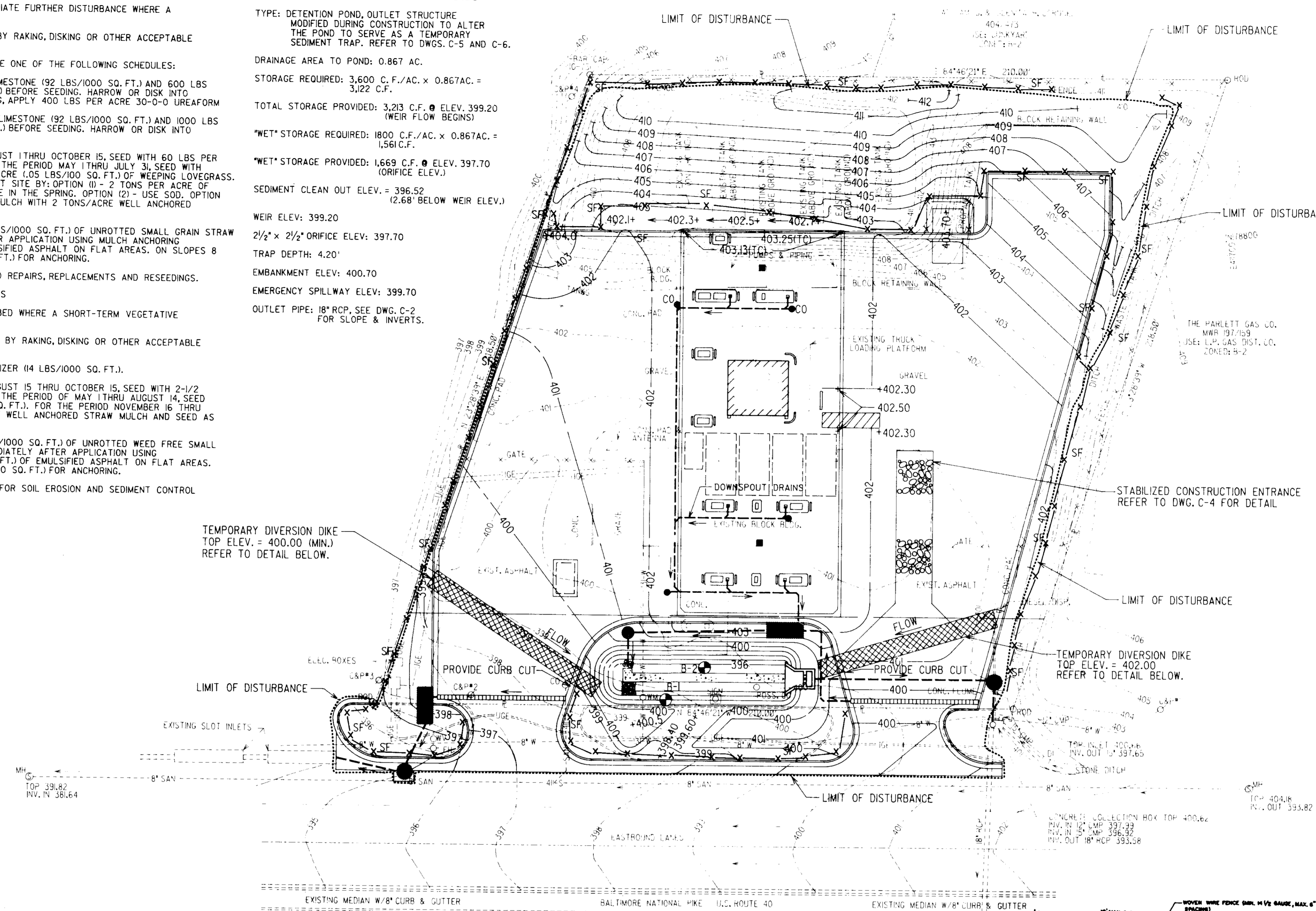
2 1/2" x 2 1/2" ORIFICE ELEV.: 397.70

TRAP DEPTH: 4.20'

EMBANKMENT ELEV.: 400.70

EMERGENCY SPILLWAY ELEV.: 399.70

OUTLET PIPE: 18" RCP, SEE DWG. C-2 FOR SLOPE & INVERTS.

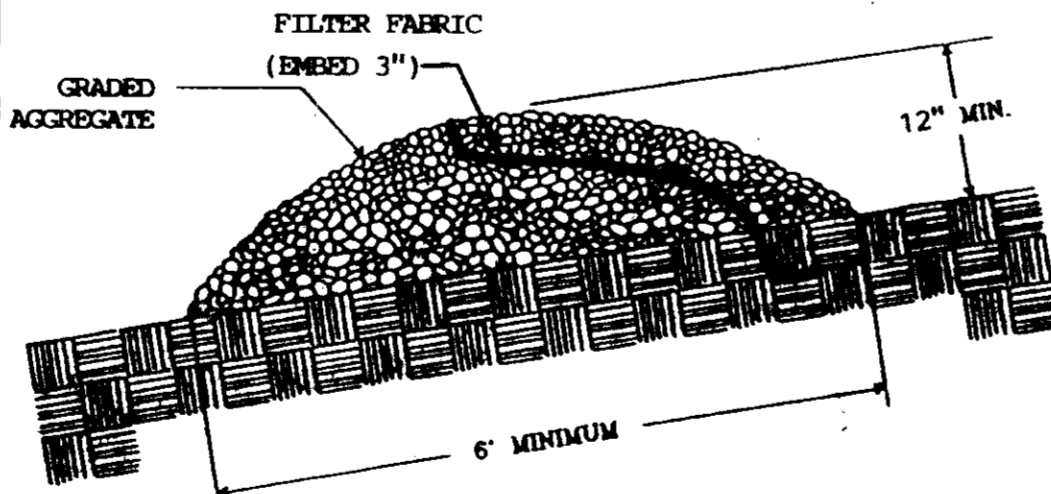


TEMPORARY DIVERSION DIKE
TOP ELEV. = 400.00 (MIN.)
REFER TO DETAIL BELOW.

LIMIT OF DISTURBANCE

SITE PLAN

SCALE: 1" = 20'

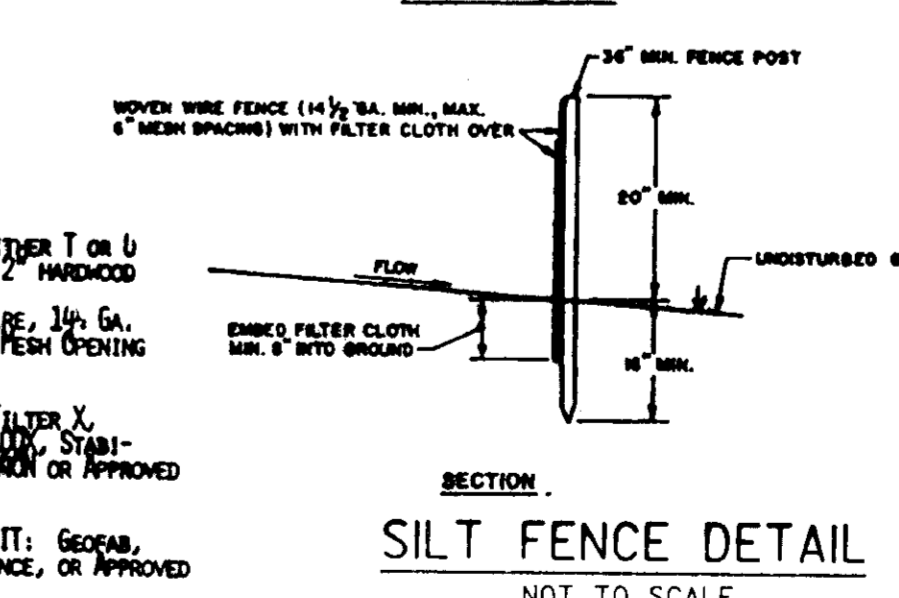
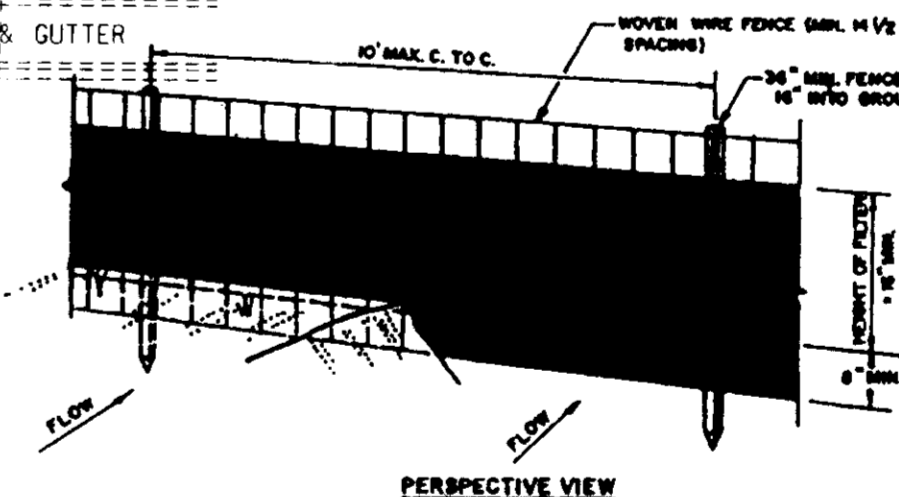


TEMPORARY DIVERSION DIKE
NOT TO SCALE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. MONY WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR BRAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO MONY WIRE FENCE WITH TIES BRACED EVERY 20' AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND POLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NECESSARY AND REPAIRS, REINFORCED WITH WALKERS DEVELOP IN THE SILT FENCE.

POSTS: STABIL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: MONY WIRE, 1/4" GAL. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, 100% 100% STABIL-LIMBA (OR AN APPROVED EQUAL)
PREFABRICATED UNIT: GEOPAR, ENVIRONMENT, OR APPROVED EQUAL



STANDARD SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (410-313-1855)
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3%.
 - B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 17 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
TOTAL AREA OF SITE: 1.00 ACRES +/-
AREA DISTURBED: 0.883 ACRES
AREA TO BE ROOFED OR PAVED: 0.651 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 0.232 ACRES
TOTAL CUT:
OFFSITE WASTE/BORROW AREA LOCATION:
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
11. THE CONTRACTOR SHALL REMOVE ALL EXCESS EXCAVATED MATERIAL FROM THE SITE.
12. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO CONSTRUCTION.
13. PROVIDE TEMPORARY CURB CUTS INTO SEDIMENT POND TO ACCOMMODATE STORMWATER FLOW FROM TEMPORARY DIVERSION DIKES.

SEQUENCE OF CONSTRUCTION (DURATION)

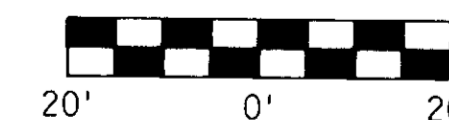
1. OBTAIN A GRADING PERMIT.
2. ABANDON EXISTING WATER LINE AND SEWER SERVICE. (2 DAYS)
3. INSTALL SILT FENCE. (1 DAY)
4. CONSTRUCT TEMPORARY SEDIMENT POND, OUTLET STRUCTURE, AND OUTLET PIPING. CONSTRUCT WATER QUALITY INLETS AND INSTALL BLOCK OPENINGS TO WATER QUALITY INLETS. CONFIGURE OUTLET STRUCTURE FOR THE TEMPORARY SEDIMENT TRAP. (30 DAYS)
5. BERM ENTRANCES TO DIRECT STORMWATER TO SEDIMENT POND. (1 DAY)
6. ENSURE THAT STORMWATER FLOWS TO SEDIMENT CONTROL DEVICES. (THROUGH CURB CUTS TO POND FROM ENTRANCE BERMS.)
7. DEMOLISH ITEMS TO BE REMOVED. (5 DAYS)
8. GRADE AND STABILIZE SOUTH PORTION OF PROPERTY. GRADE REMAINDER OF PROPERTY. PLACE AGGREGATE BASE COURSE AS SOON AS PRACTICAL. (15 DAYS)
9. INSTALL UNDERGROUND DRAINAGE, UTILITIES AND CURBING. (30 DAYS)
10. CONSTRUCT ISLANDS, CANOPY, KIOSK AND CONCRETE PAD. (45 DAYS)
11. PLACE ASPHALT PAVING. (5 DAYS)
12. FINAL STABILIZATION.
13. REMOVE SEDIMENT FROM POND. CLEAN WATER QUALITY INLETS AND ALL PIPING.
14. INSTALL FINAL LANDSCAPING.
15. REMOVE SEDIMENT CONTROL PRACTICES ONLY UPON RECEIVING PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. CONFIGURE POND AND OUTLET STRUCTURE AS DETAILED FOR PERMANENT INSTALLATION.

SITE ADDRESS: 10065 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND

OWNER: SOUTHERN STATES PETROLEUM COOPERATIVE, INC.
P.O. BOX 26234
RICHMOND, VIRGINIA 23260
(804) 281-1274

PROJECT ENGINEER: WILEY & WILSON
6620 W. BROAD STREET
SUITE 250
RICHMOND, VIRGINIA 23230

GRAPHIC PLAN SCALE:



BA CASE NO. 93-32E
HOWARD COUNTY SDP-94-88

PROJECT TITLE SOUTHERN STATES HOWARD COUNTY PETROLEUM COOPERATIVE, INC.			
DEED REF: MWB 198/226		CENSUS TRACT NO: 6023.01	
ELECTION DISTRICT NO: 2		HOWARD COUNTY, MARYLAND	
DESIGNED MPM	DRAWN MPM	TAX MAP: 24, BLOCK 2	PARCEL: 67
CHECKED WMD	REVIEWED NBD	WATER CODE: F14	SEWER CODE: 5440000
APPROVED JDC	FILE NO.	REFERENCE	CIVIL
COMM. NO. 93716.00	SHEET TITLE SOIL EROSION AND SEDIMENT CONTROL PLAN		
DATE OCTOBER 7, 1994	DWG. NO. C-3	SHEET NO. 4 OF 9	REV. 3

REV.	DATE	BY	APP.	DESCRIPTION

Wiley & Wilson
ARCHITECTURE ENGINEERS PLANNERS
6620 W. Broad Street Road
Suite 250
Richmond, Virginia 23230
(804) 282-5417



POST-DEVELOPMENT CONDITIONS
 TOTAL DRAINAGE AREA = 0.867 AC.
 PERCENT IMPERVIOUS = 73.4%

SOIL: GLENVILLE SILT LOAM, HSC: C
 CLASSIFICATION: SM, LOAMY SAND

LEGEND

- FLOW DIRECTION
- DRAINAGE DIVIDE
- EXISTING STORM PIPING
- TIME OF CONCENTRATION FLOW PATH
- SOIL BORING LOCATION AND LABEL
- PROPOSED TRENCH DRAIN
- PROPOSED WATER QUALITY INLET
- PROPOSED STANDARD MANHOLE
- PROPOSED STORM PIPING
- EXISTING SLOT INLETS

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

SIGNATURE OF DEVELOPER _____ DATE _____

(PRINT NAME)

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

SIGNATURE OF ENGINEER *W.M. Javidge* DATE *12/9/94*

(PRINT NAME)

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

Patricia Engel /cs DATE *12/23/94*

U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR ~~SOIL EROSION AND SEDIMENT CONTROL~~ MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Sheila [Signature] DATE *12/23/94*

HOWARD SOIL CONSERVATION DISTRICT

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

Jane M. Bondalperffon DATE *1/3/95*

ECOLGY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] DATE *1/16/95*

DIRECTOR

Olga Surimany DATE *1/5/95*

CHIEF, DIVISION OF PLANT DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

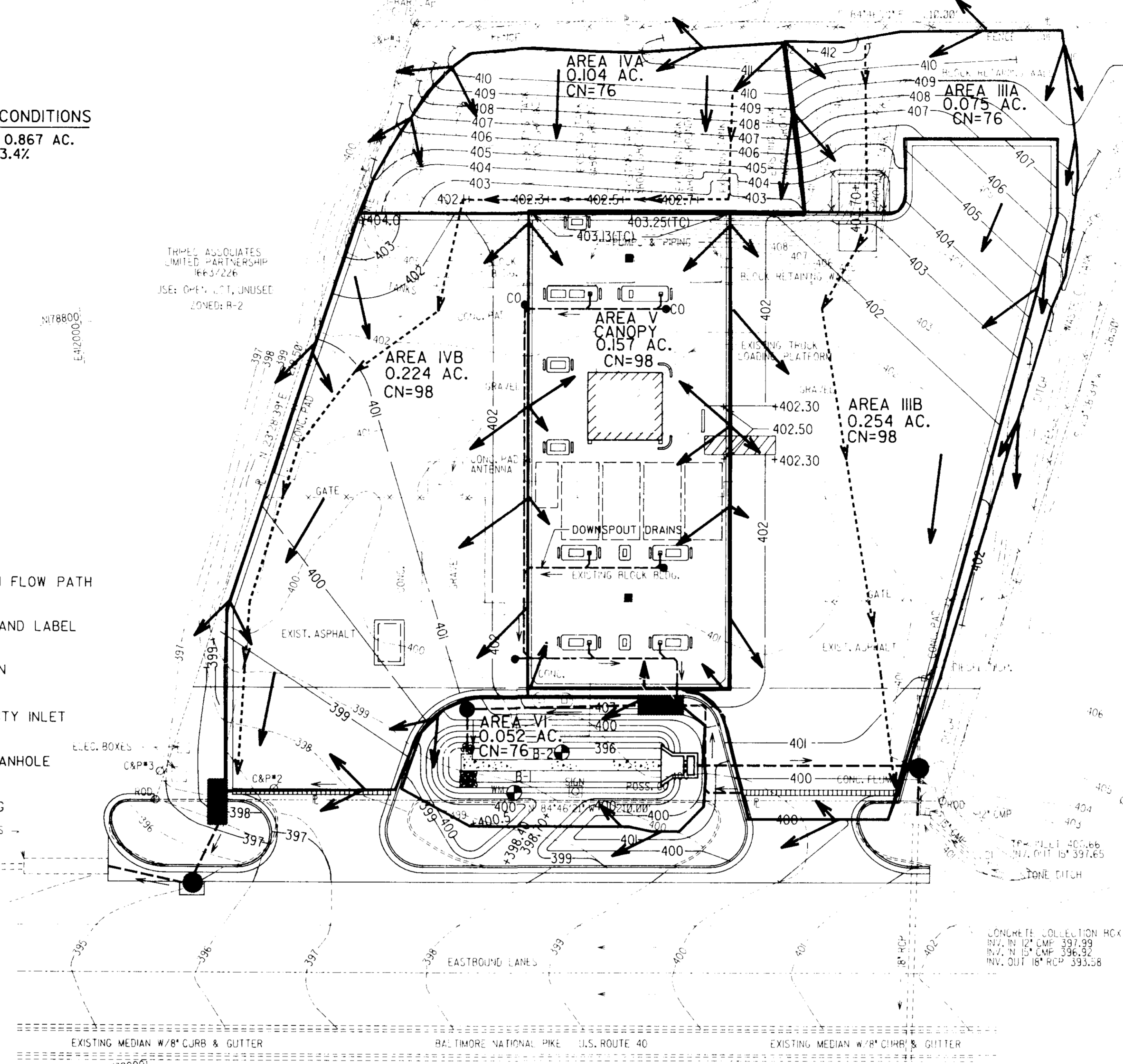
Jane M. [Signature] DATE *12/29/94*

DIRECTOR

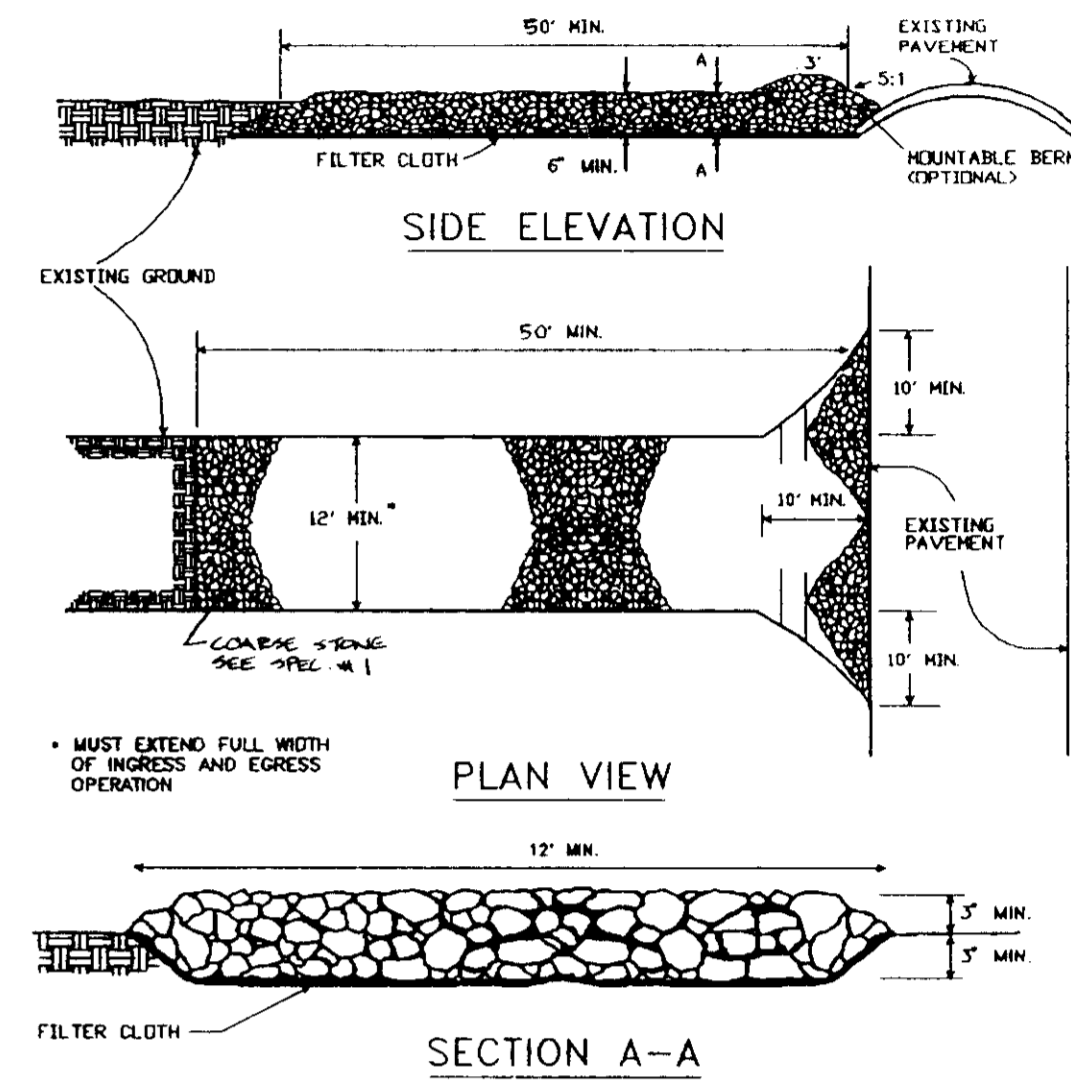
Cleopatra Anderson-Celis DATE *12/29/94*

CHIEF, BUREAU OF ENGINEERING, *acting*

PLAN APPROVAL STAMP



SITE PLAN
 SCALE: 1" = 20'



- CONSTRUCTION SPECIFICATIONS
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50' (except on a single residential lot where a 30' minimum length would apply).
 - Thickness - Not less six (6) inches.
 - Width - Ten (10) foot minimum but not less than the full width at points where ingress or egress occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrances.
 - 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 sediments spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE
 REFER TO DWG. C-3 FOR LOCATION
 NOT TO SCALE

GRAPHIC PLAN SCALE:

 SCALE: 1" = 20'

SITE ADDRESS: 10065 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

OWNER: SOUTHERN STATES PETROLEUM COOPERATIVE, INC.
 P.O. BOX 26234
 RICHMOND, VIRGINIA 23260
 (804) 281-1274

PROJECT ENGINEER: WILEY & WILSON
 6620 W. BROAD STREET
 SUITE 250
 RICHMOND, VIRGINIA 23230

BA CASE NO. 93-32E
 HOWARD COUNTY SDP-94-88

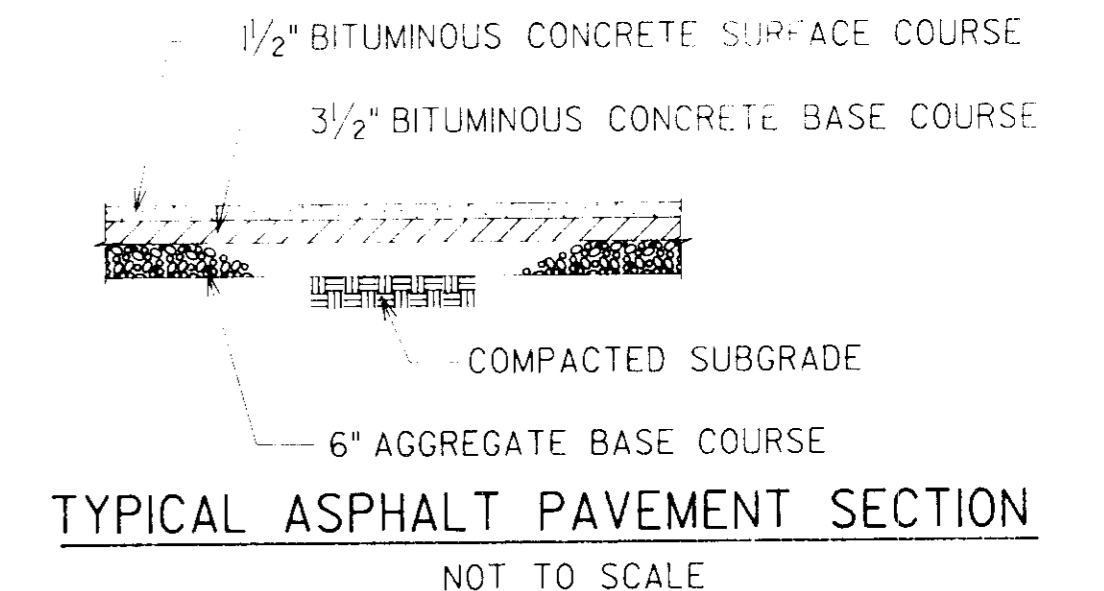
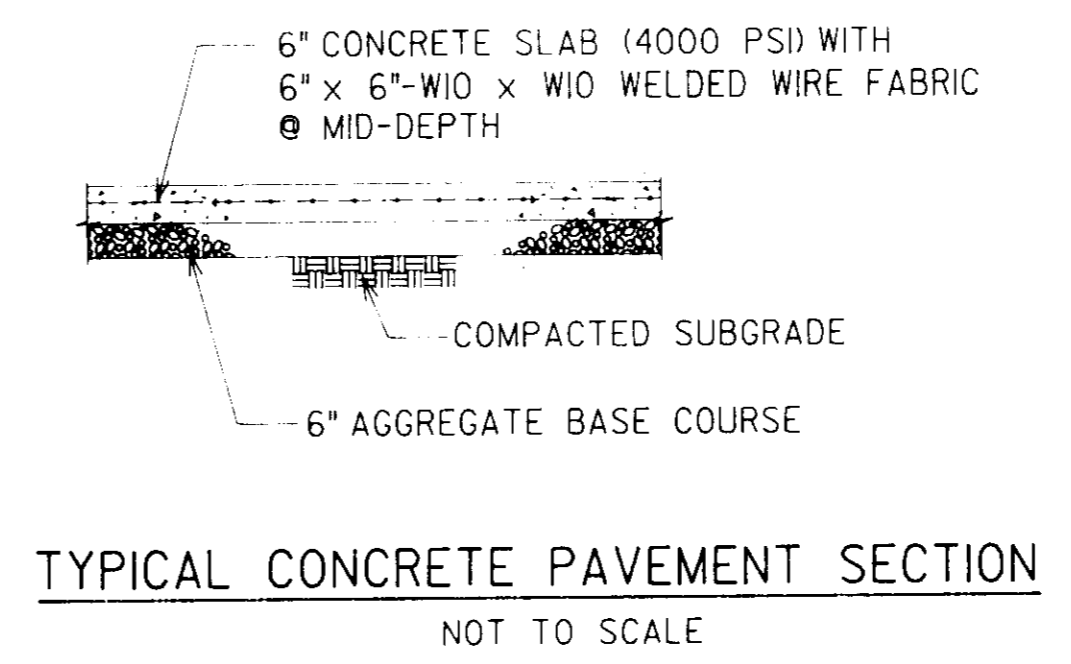
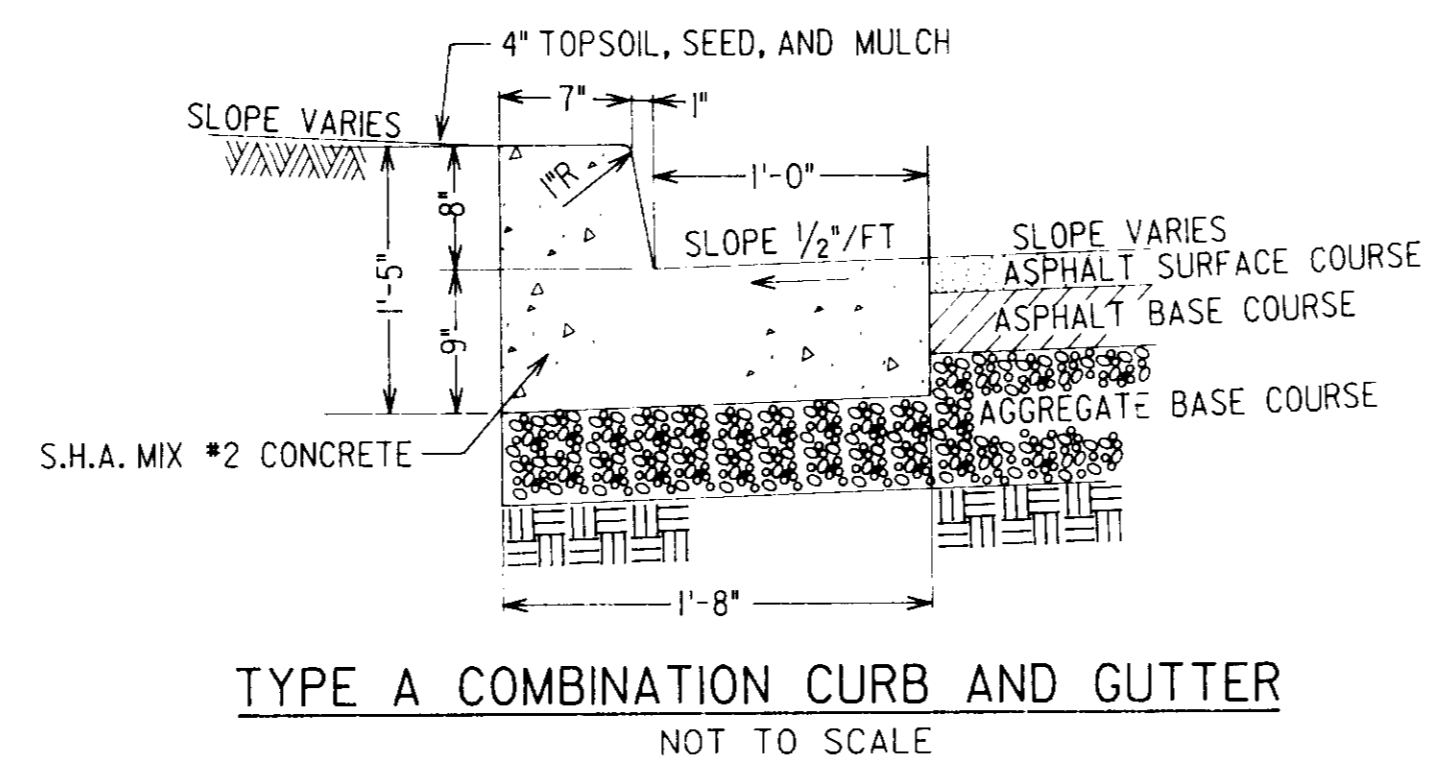
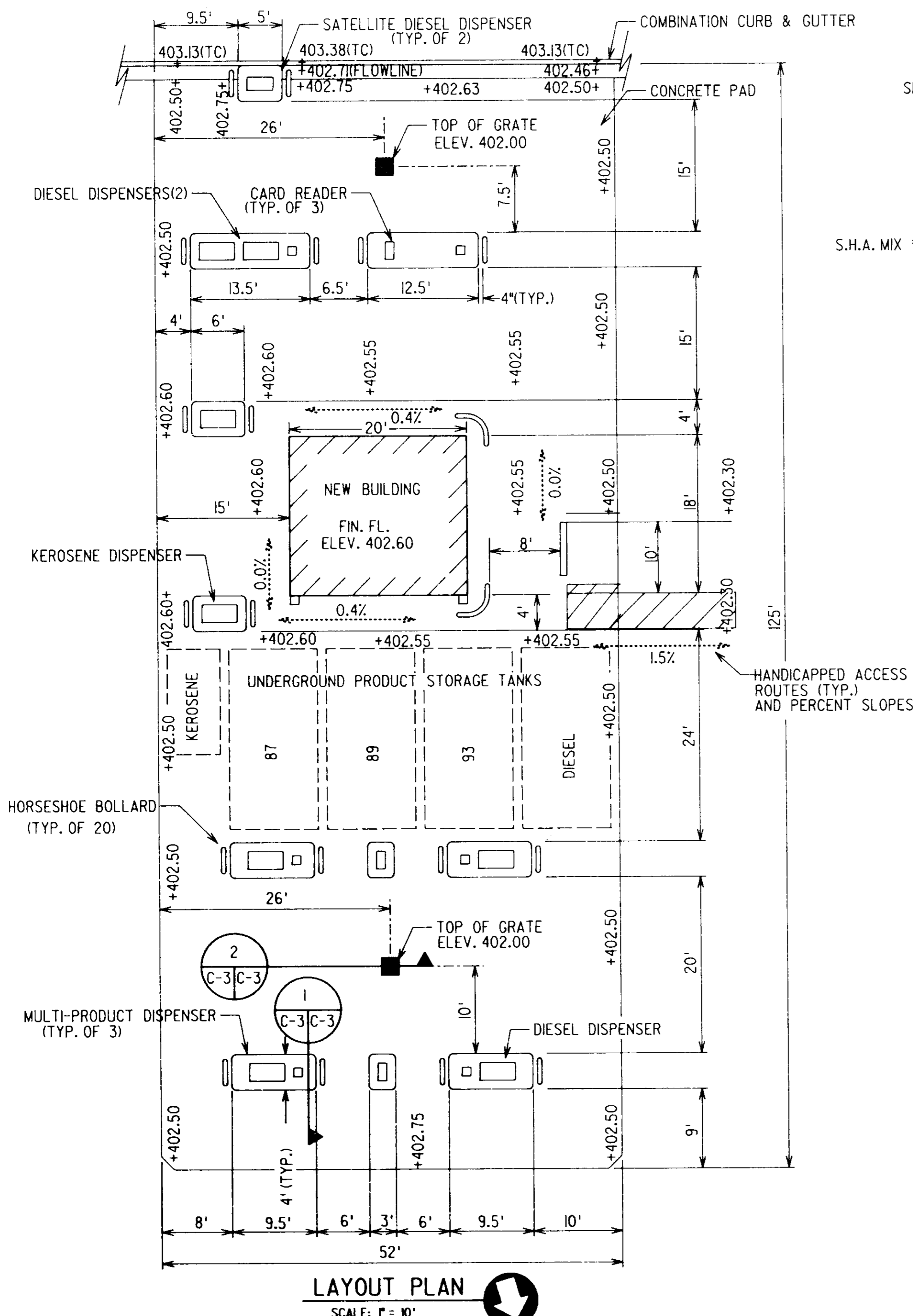
PROJECT TITLE SOUTHERN STATES HOWARD COUNTY PETROLEUM COOPERATIVE, INC.			
DEED REF: MWB 198/226		CENSUS TRACT NO: 6023.01	
ELECTION DISTRICT NO: 2		HOWARD COUNTY, MARYLAND	
DESIGNED MPM	DRAWN MPM	TAX MAP: 24, BLOCK 2	PARCEL: 67
CHECKED NMD	REVIEWED NBD	WATER CODE: F14	SEWER CODE: 5440000
APPROVED JDC	FILE NO.	REFERENCE	CIVIL
COMM. NO. 93716.00	SHEET TITLE DRAINAGE AREA MAP		
DATE OCTOBER 7, 1994	DWG. NO. C-4	SHEET NO. 5 OF 9	REV. 0

REV.	DATE	BY	APP.	DESCRIPTION

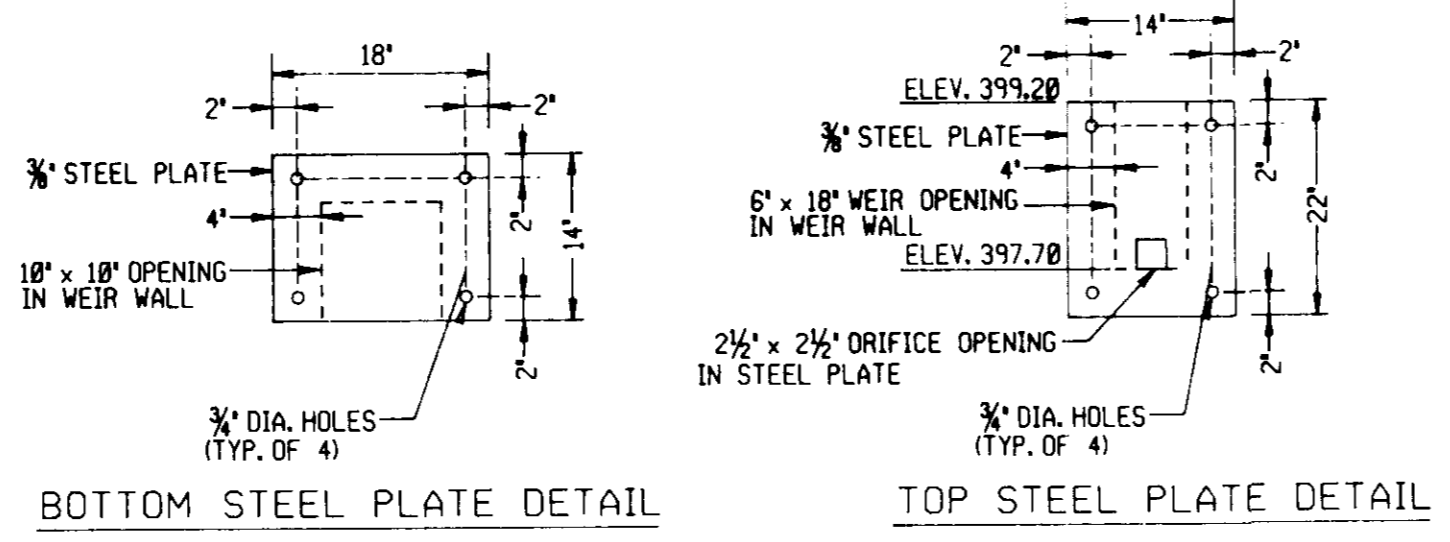
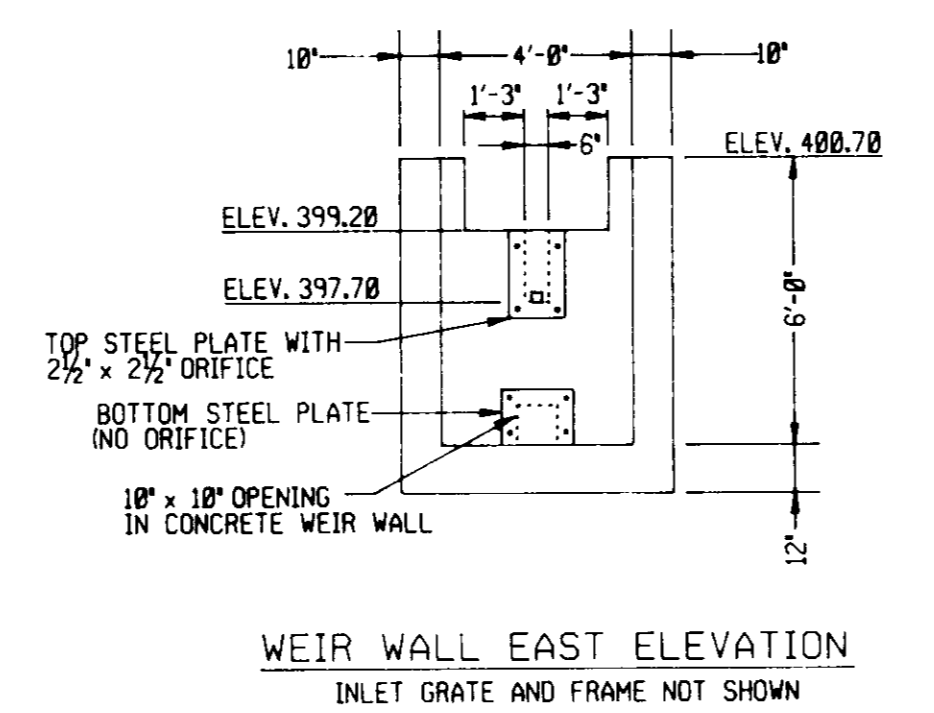
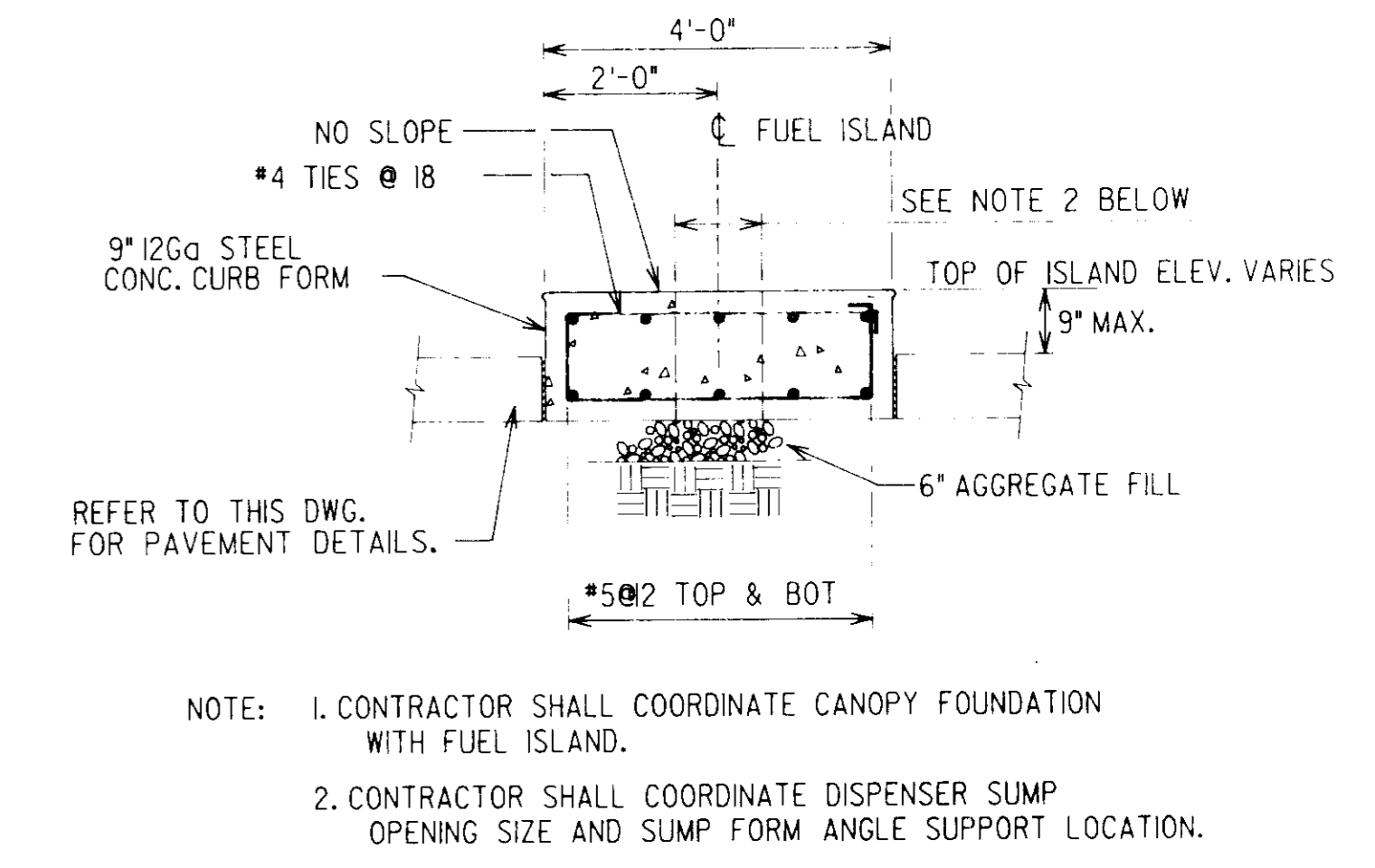
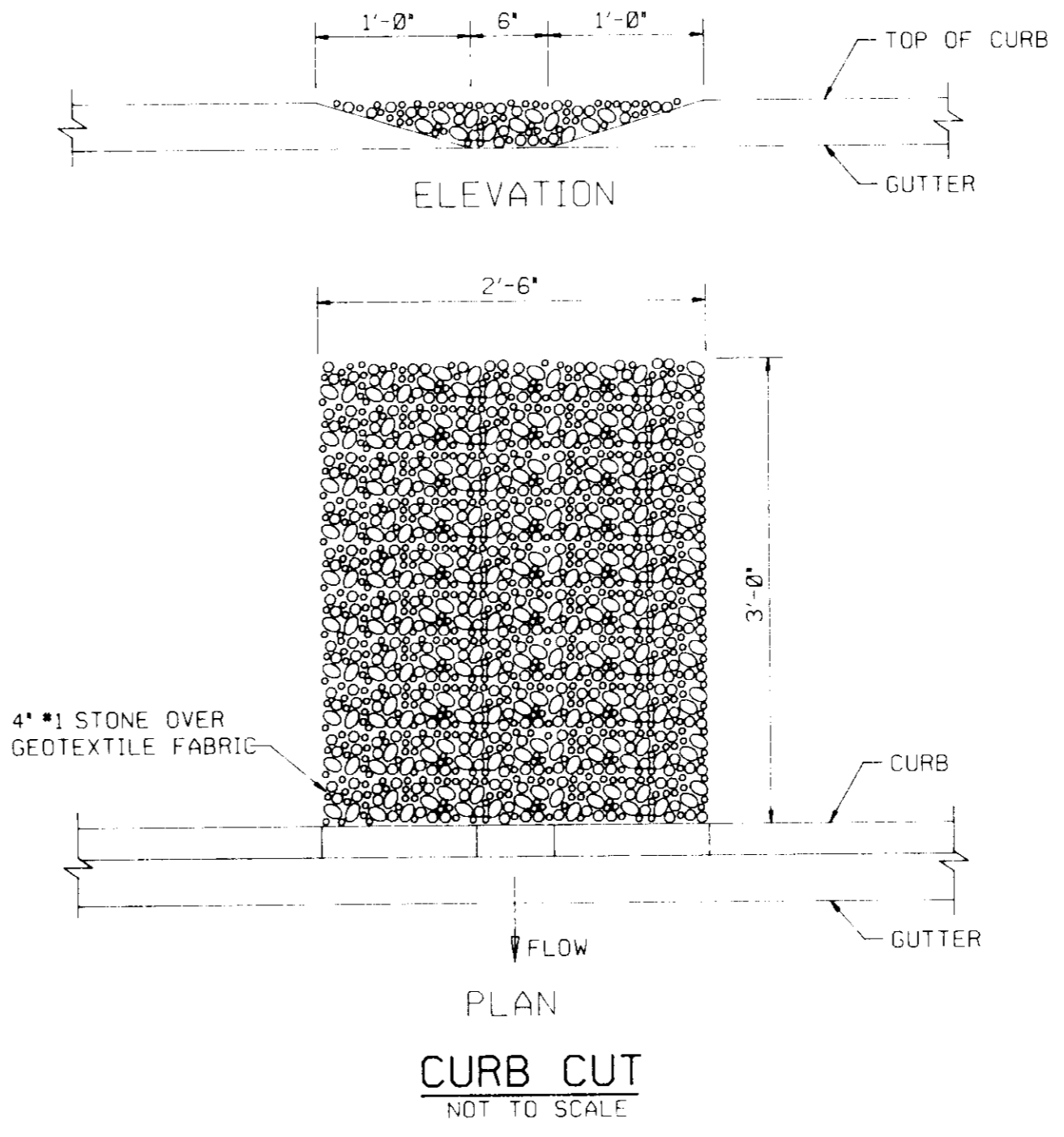
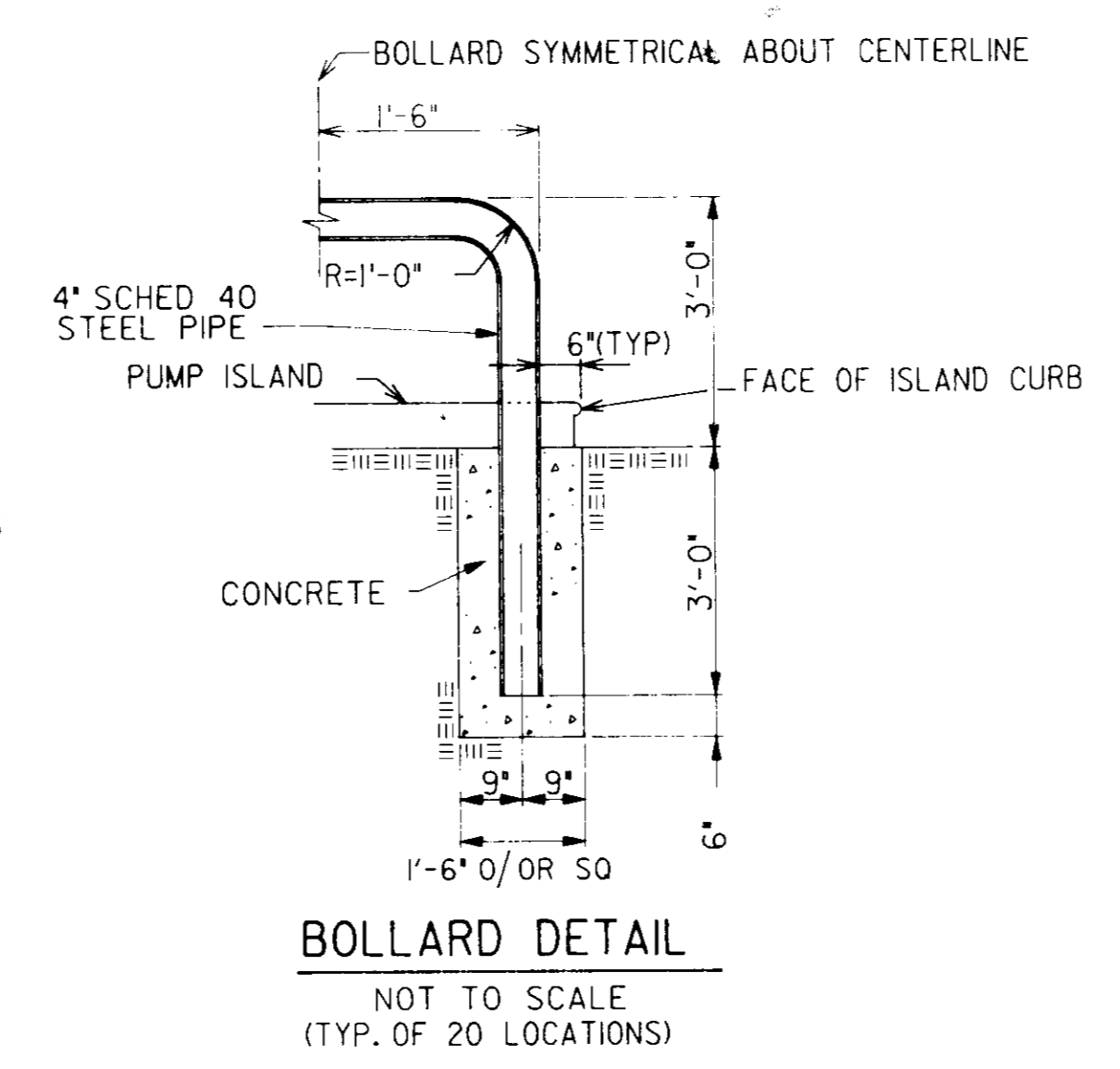


Wiley & Wilson
 ARCHITECTS ENGINEERS PLANNERS
 6620 W. Broad Street Road
 Suite 250
 Richmond, Virginia 23230
 (804) 282-5417



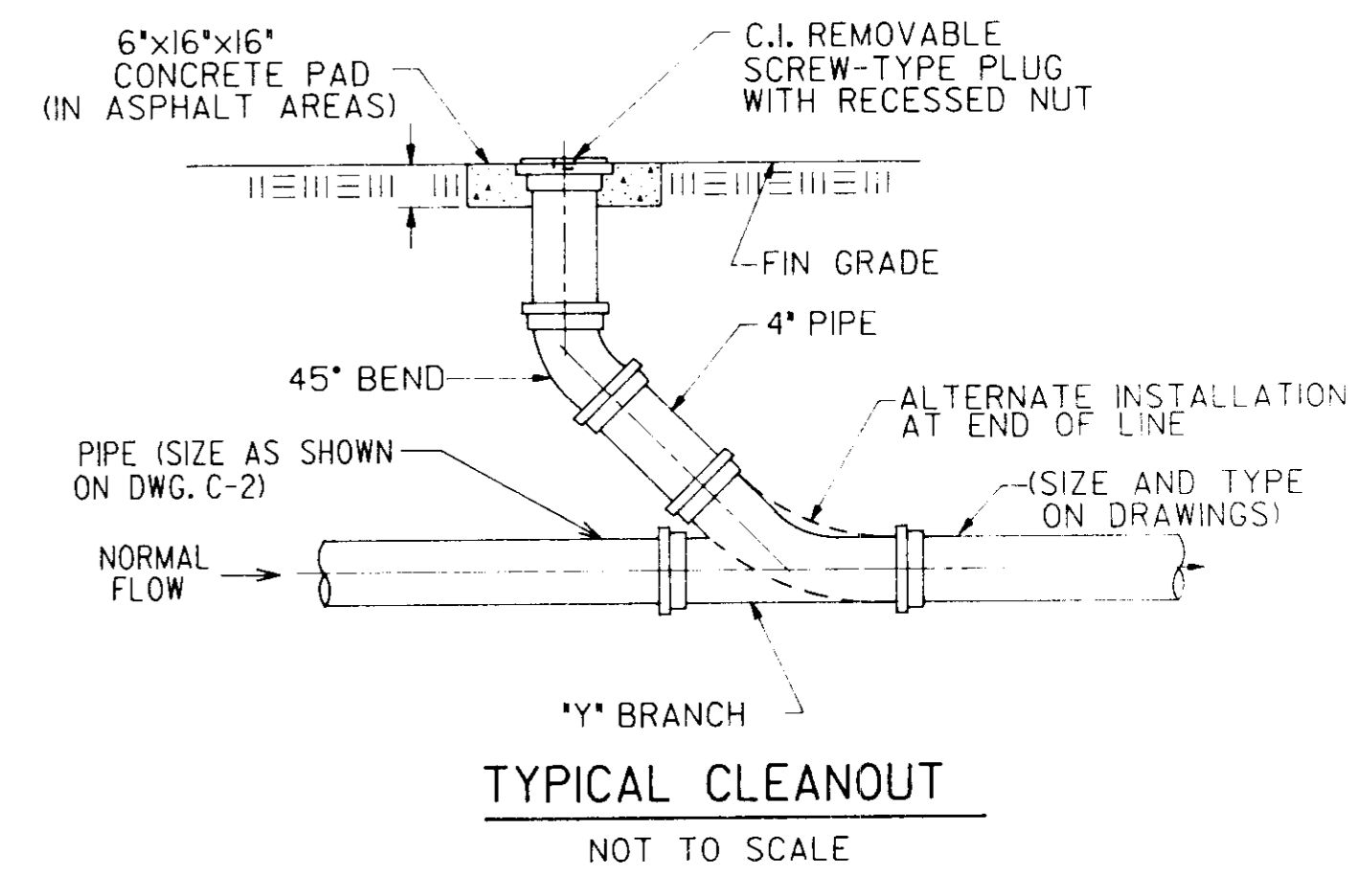
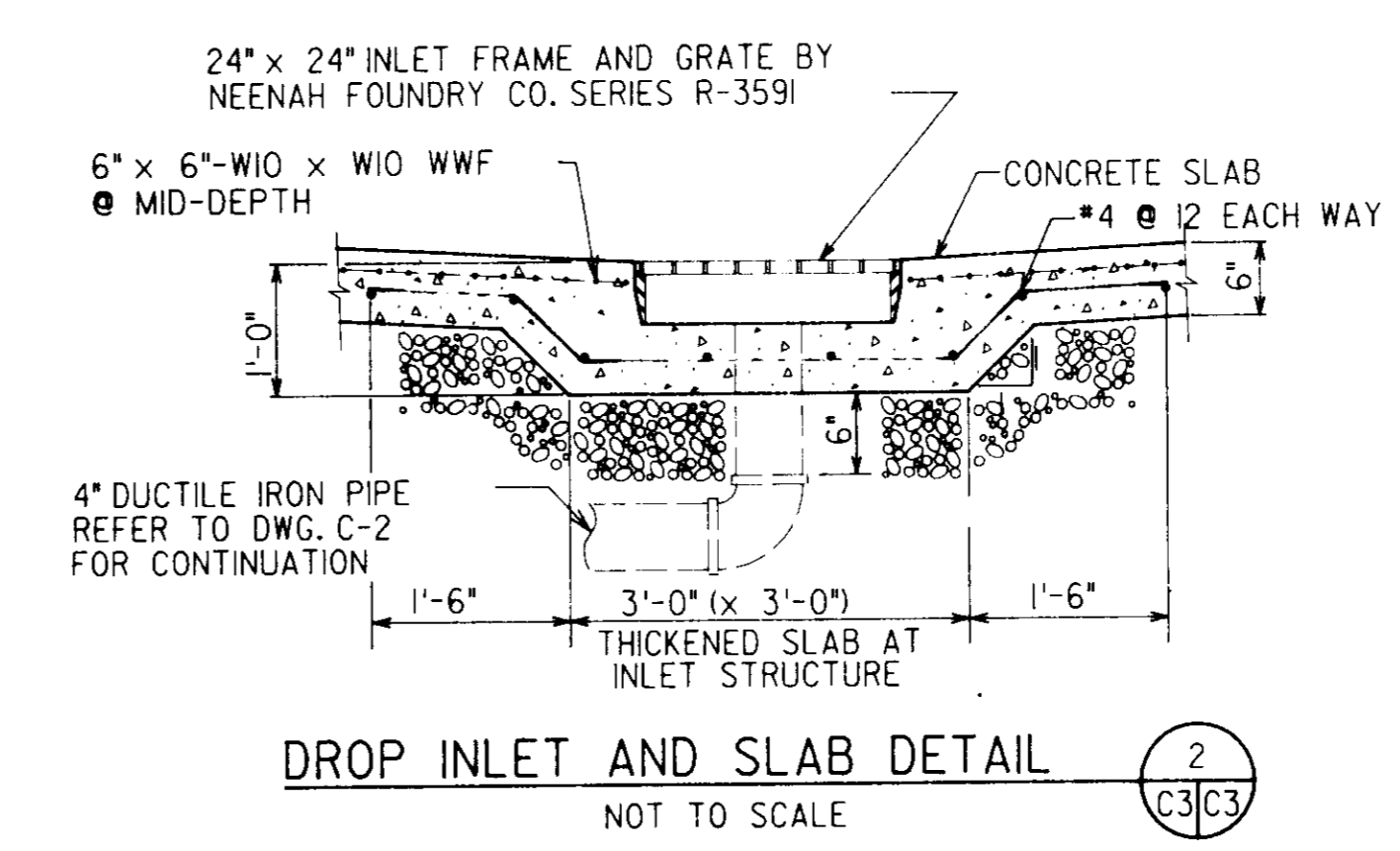


NOTE: THE PAVEMENT SECTION WITHIN STATE HIGHWAY RIGHT OF WAY FOR ENTRANCES AND REPAIRS SHALL BE AS FOLLOWS:
3" BITUMINOUS CONCRETE SURFACE COURSE (PLACED IN TWO 1/2" LIFTS) OVER
4" BITUMINOUS CONCRETE BASE COURSE OVER
6" GRADED AGGREGATE BASE COURSE, GA. BASE.



TEMPORARY SEDIMENT TRAP WEIR WALL CONFIGURATION
NOT TO SCALE

NOTES:
1. THIS WEIR WALL CONFIGURATION SHALL BE USED DURING CONSTRUCTION ONLY.
2. REFER TO DWG. C-6 FOR PERMANENT WEIR WALL CONFIGURATION AND OUTLET STRUCTURE DETAILS.
3. ATTACH STEEL PLATES TO WEIR WALL AS DETAILED ON DWG. C-6.



OWNER: SOUTHERN STATES COOPERATIVE, INC.
P. O. BOX 26234
RICHMOND, VIRGINIA 23260
BA CASE NO. 93-32E
HOWARD COUNTY SDP-94-88

PLAN APPROVAL STAMP

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd 1/3/95
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
James M. Boyd 1/3/95
APPROVED: DIVISION OF LAND DEVELOPMENT AND RESEARCH
Quinn Swann 1/3/95
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Boyd 12/29/94
Deborah Anderson 12/29/94

REV.	DATE	BY	APP.	DESCRIPTION

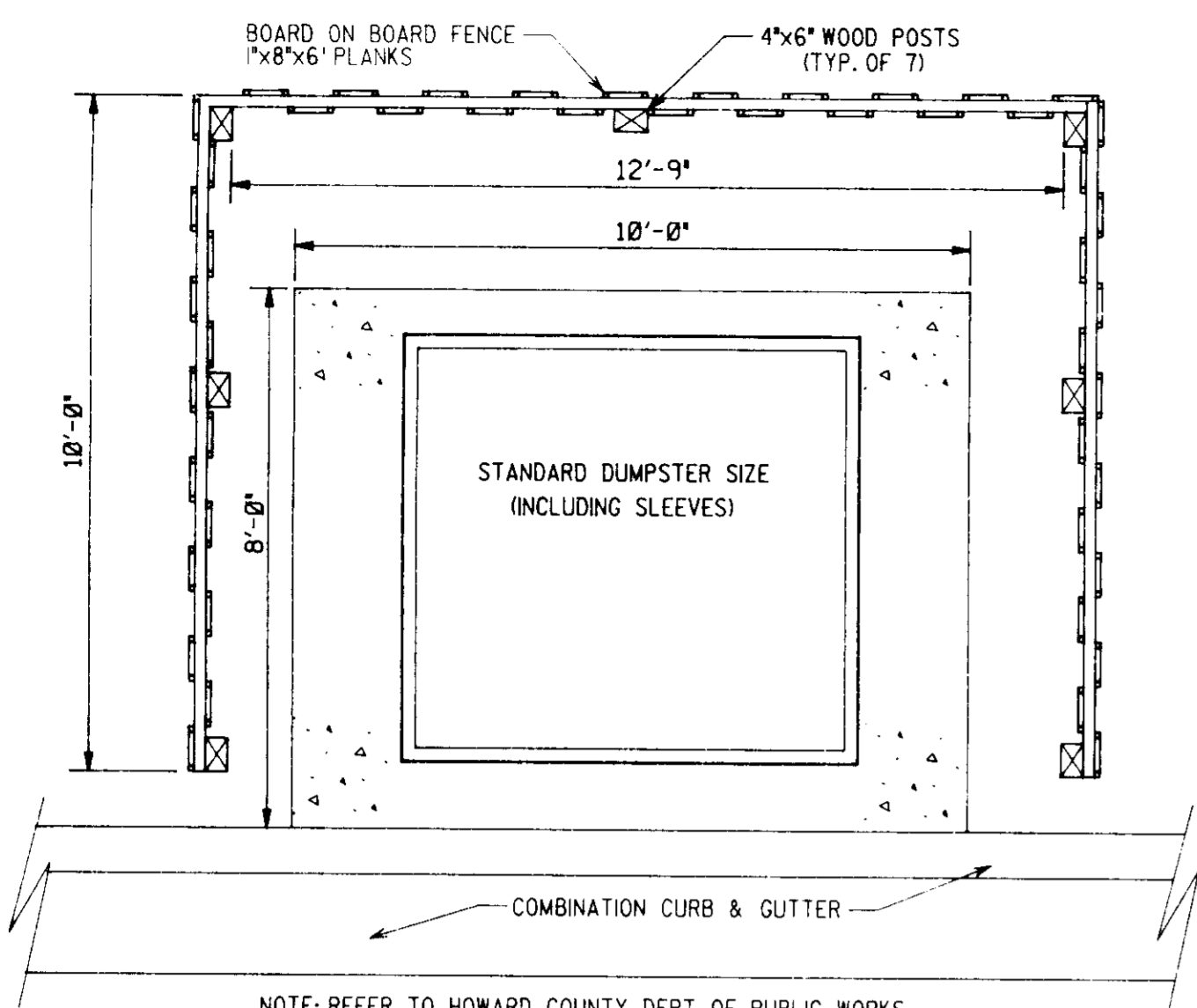
NOTES:
1. THIS WEIR WALL CONFIGURATION SHALL BE USED DURING CONSTRUCTION ONLY.
2. REFER TO DWG. C-6 FOR PERMANENT WEIR WALL CONFIGURATION AND OUTLET STRUCTURE DETAILS.
3. ATTACH STEEL PLATES TO WEIR WALL AS DETAILED ON DWG. C-6.

Wiley & Wilson
ARCHITECTS ENGINEERS PLANNERS
6620 W. Broad Street Road
Suite 250
Richmond, Virginia 23230
(804) 282-5417

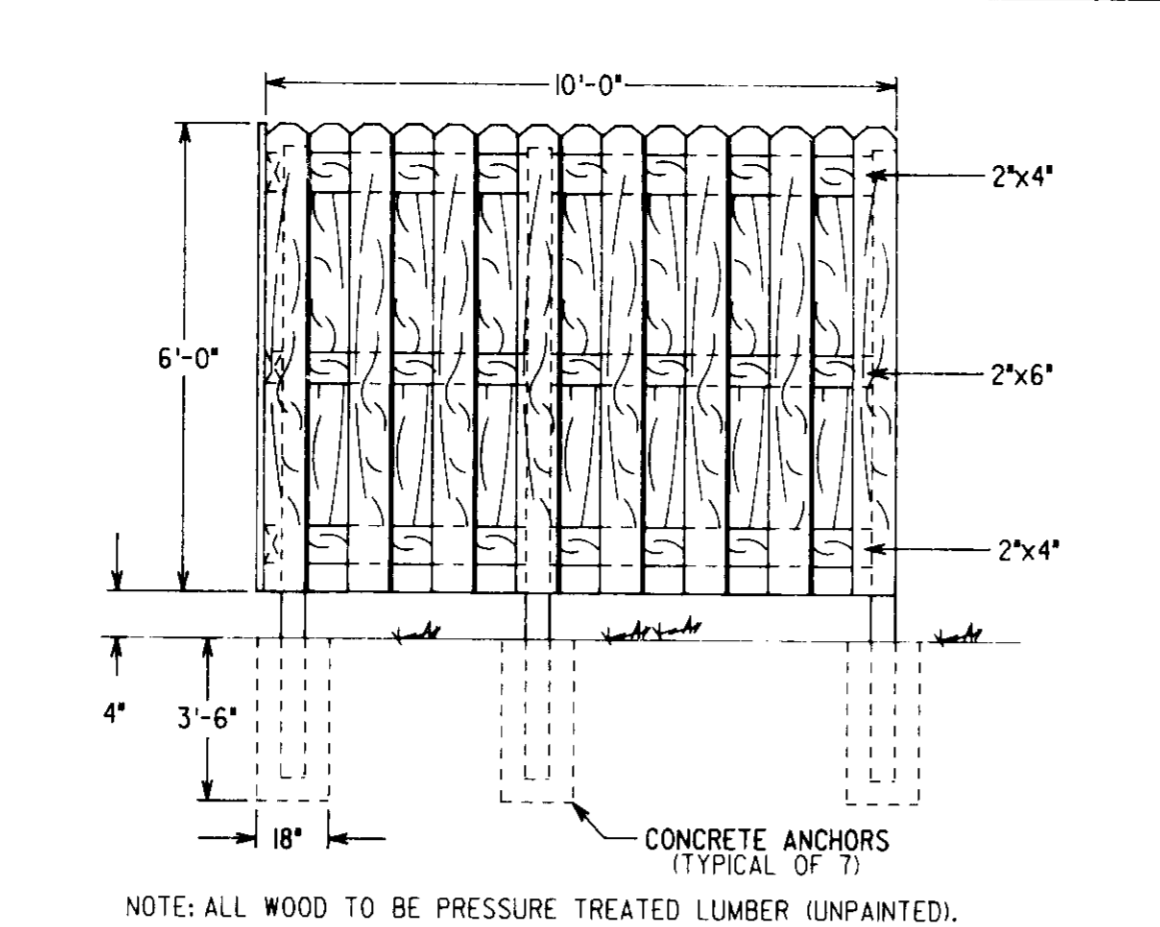


PROJECT TITLE SOUTHERN STATES COOPERATIVE, INC. HOWARD COUNTY PETROLEUM SERVICE.			
DEED REF: MWB 198/226	CENSUS TRACT NO: 6023.01		
ELECTION DISTRICT NO: 2	HOWARD COUNTY, MARYLAND		
DESIGNED: MPM	DRAWN: MPM	TAX MAP: 24, BLOCK 2	PARCEL: 67
CHECKED: WMD	REVIEWED: NSD	WATER CODE: F14	SEWER CODE: 5440000
APPROVED: JDC	FILE NO.	REFERENCE	CIVIL
COMM. NO: 93716.00	SHEET TITLE: DETAILS		
DATE: OCTOBER 7, 1994	DWG. NO: C-5	SHEET NO: 6 OF 9	REV: 0

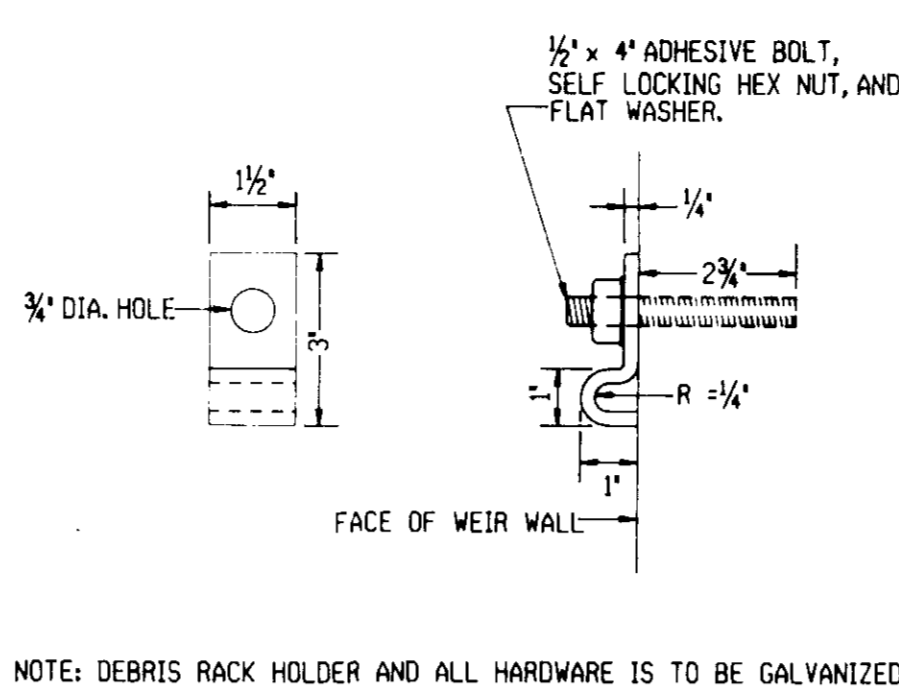
SDP-94-88



DUMPSTER AREA PLAN
NOT TO SCALE

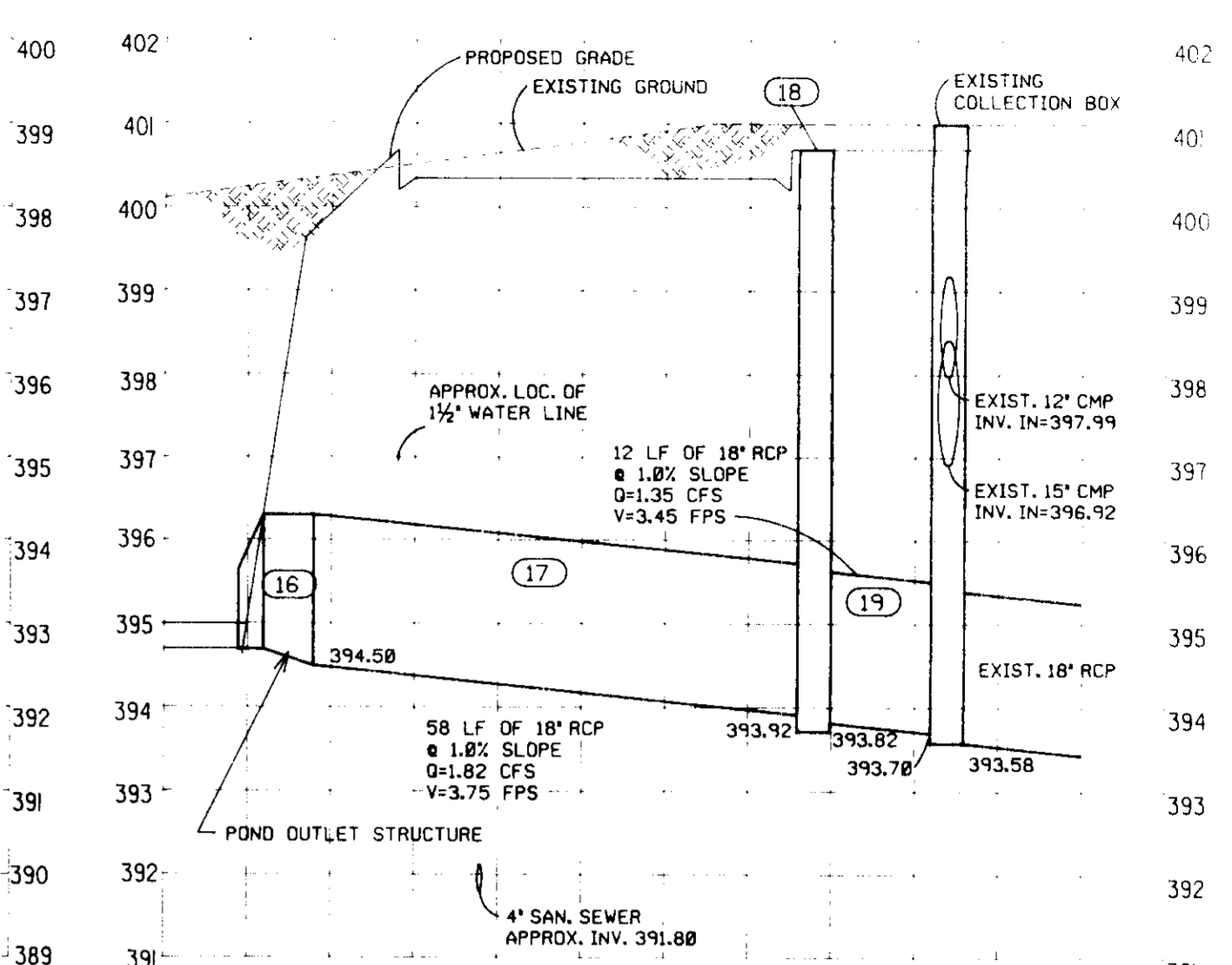
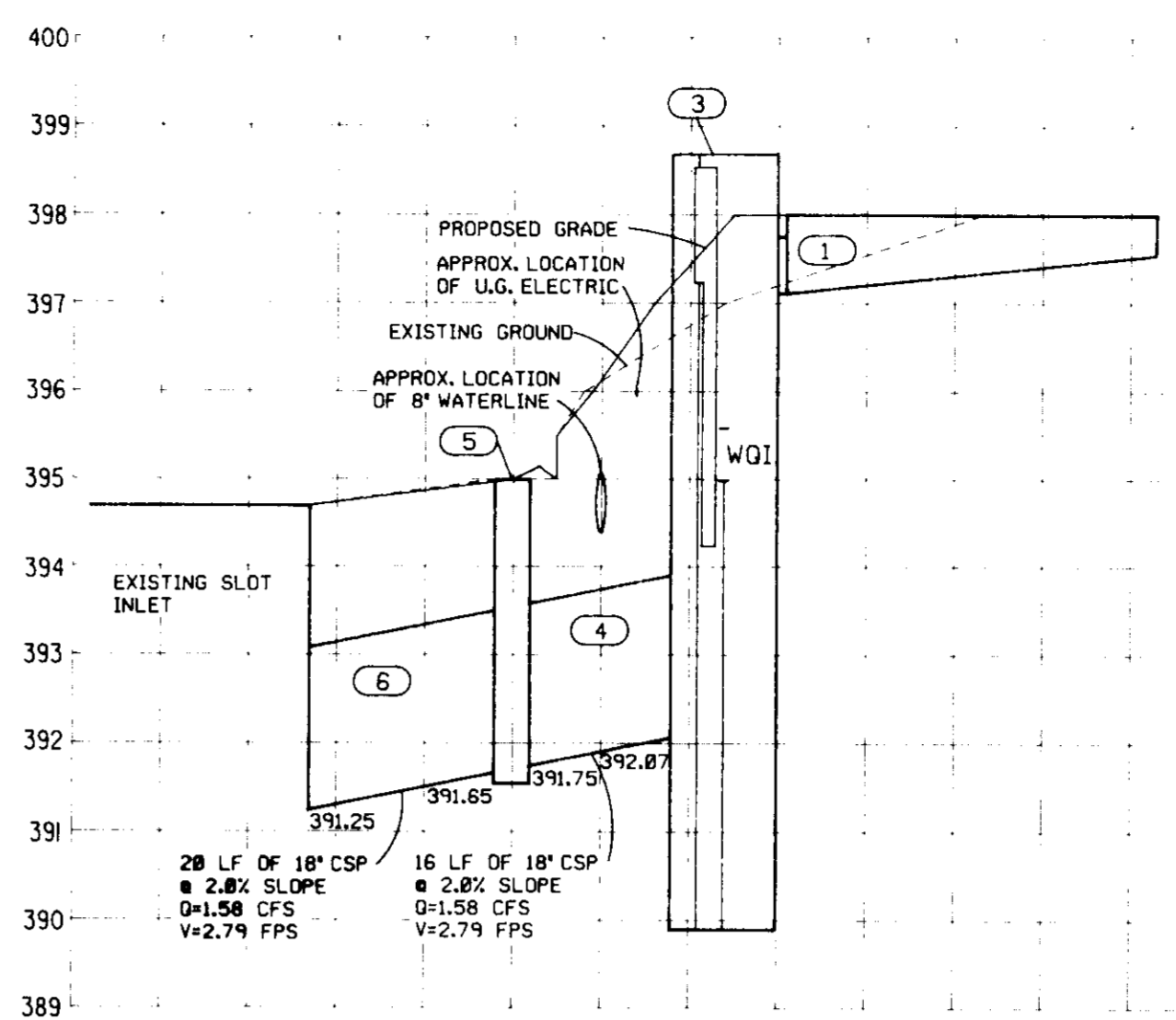


WOODEN SCREENING FENCE WEST ELEVATION
OTHER VIEWS SIMILAR - NOT TO SCALE



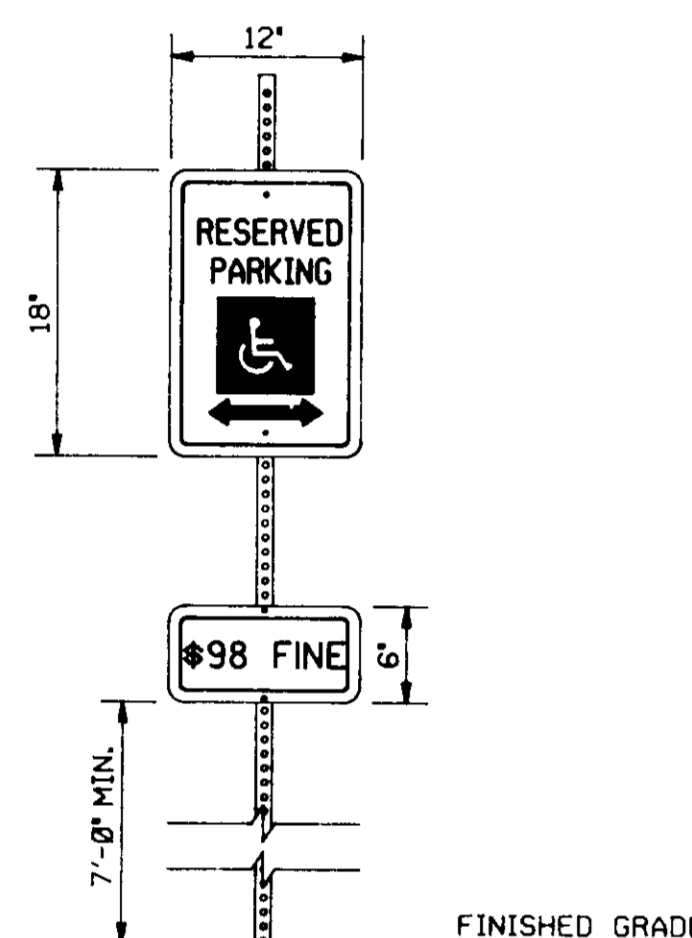
NOTE: DEBRIS RACK HOLDER AND ALL HARDWARE IS TO BE GALVANIZED.

DEBRIS RACK HOLDER
NOT TO SCALE



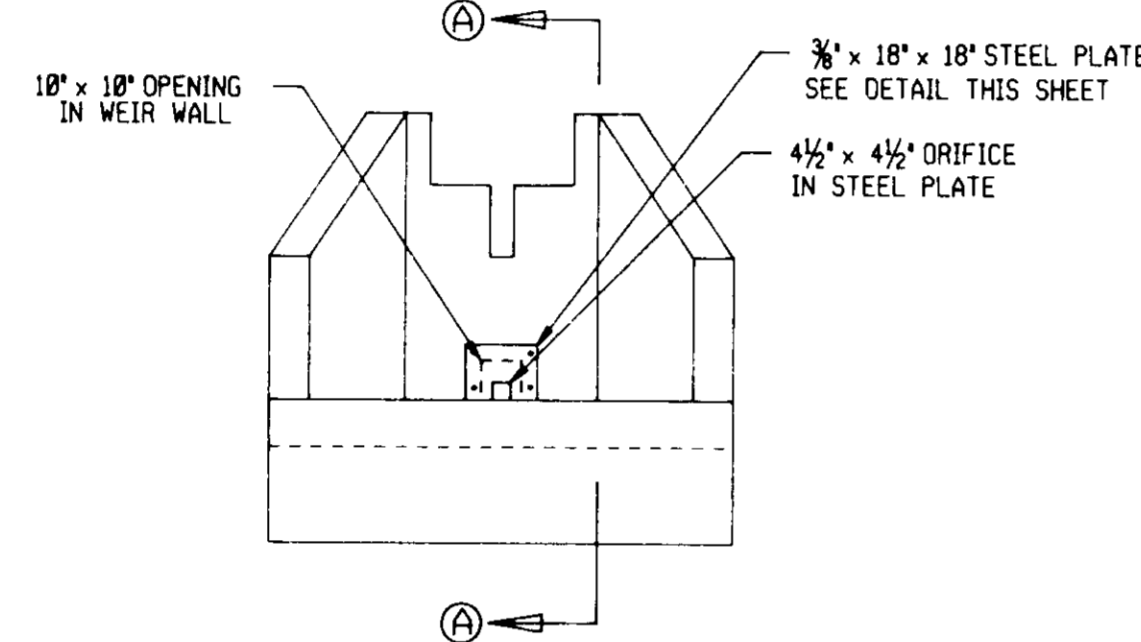
DRAINAGE PROFILES
SCALE: VERT: 1" = 2'
HORIZ: 1" = 20'

REFER TO DWG. C-2 FOR LOCATION OF PIPES, INLETS AND MANHOLES.
(XX) REFERS TO PIPE OR DRAINAGE STRUCTURE NUMBER ON DWG. C-2.

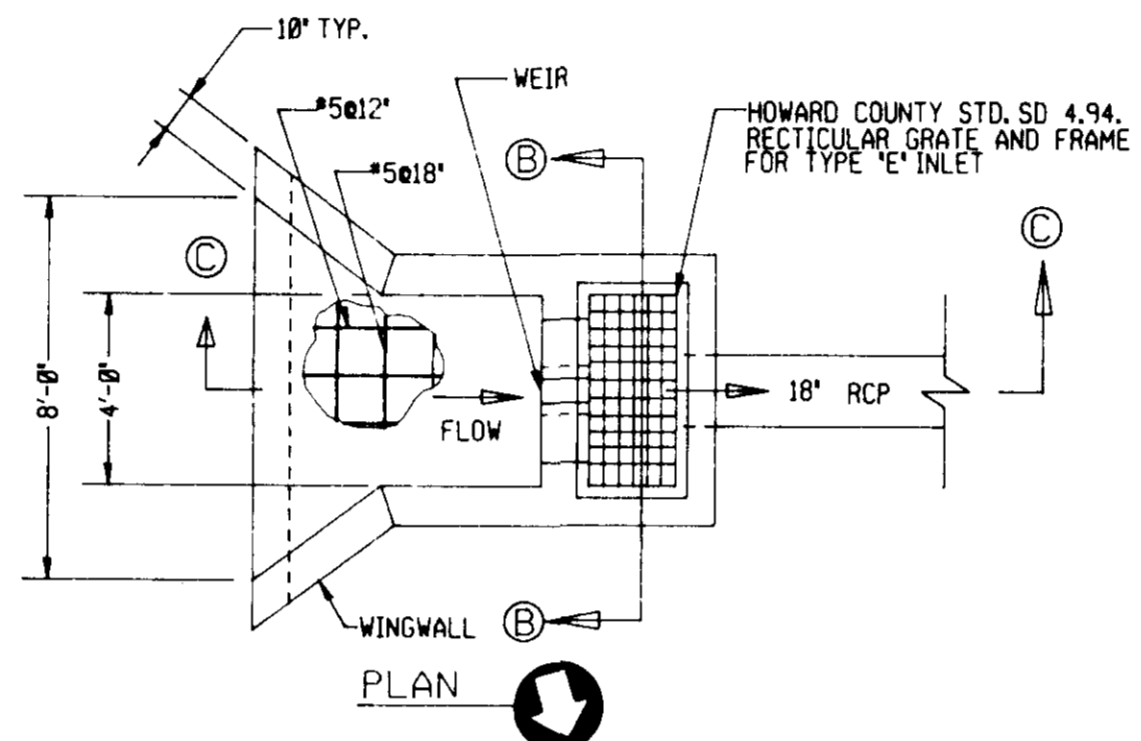


- NOTES: 1. SIGNS TO HAVE WHITE BACKGROUND WITH GREEN LETTERING AND BORDERS.
2. WHEELCHAIR SYMBOL SHALL BE WHITE ON A BLUE BACKGROUND.
3. POST SHALL BE U-TYPE ROLLED RAIL STEEL POSTS AT 1.33 LBS/FT, PAINTED GREEN, EMBEDDED 30".
4. RESERVED PARKING SIGN SHALL BE SIGN R7-B OF THE STATE OF MARYLAND STANDARD HIGHWAY SIGNS BOOKLET.
5. #98 FINE SIGN SHALL CONFORM TO HOWARD COUNTY COUNCIL BILL #45-93, RESOLUTION #122.

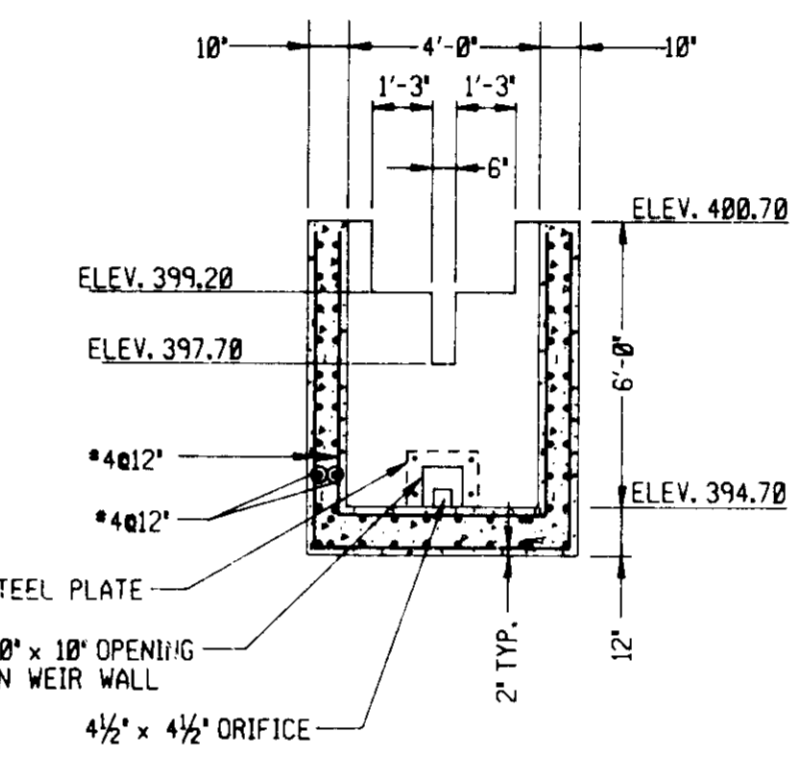
HANDICAPPED PARKING SIGNS
NOT TO SCALE



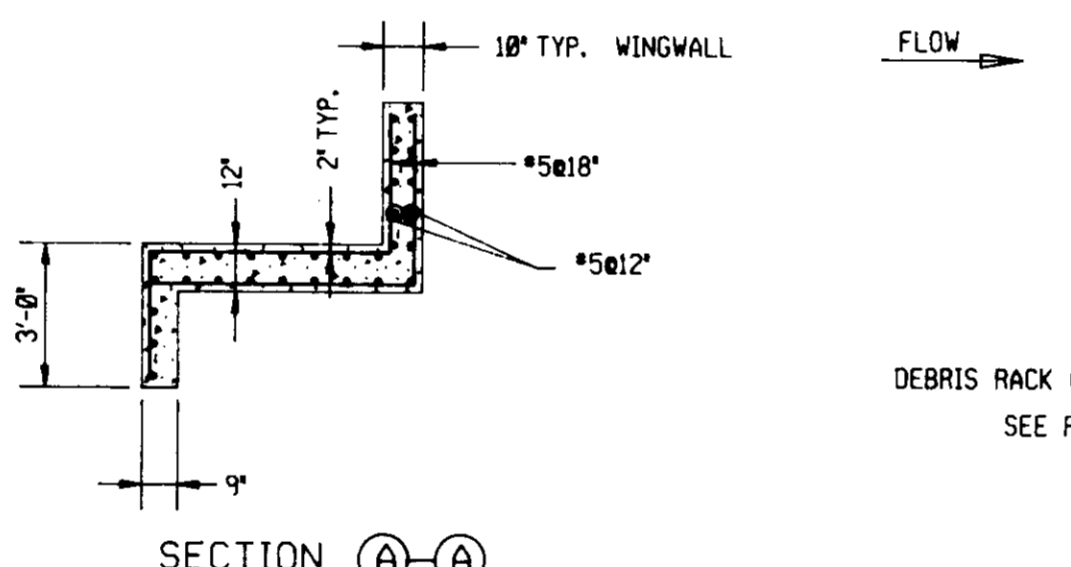
EAST ELEVATION
DEBRIS RACK NOT SHOWN



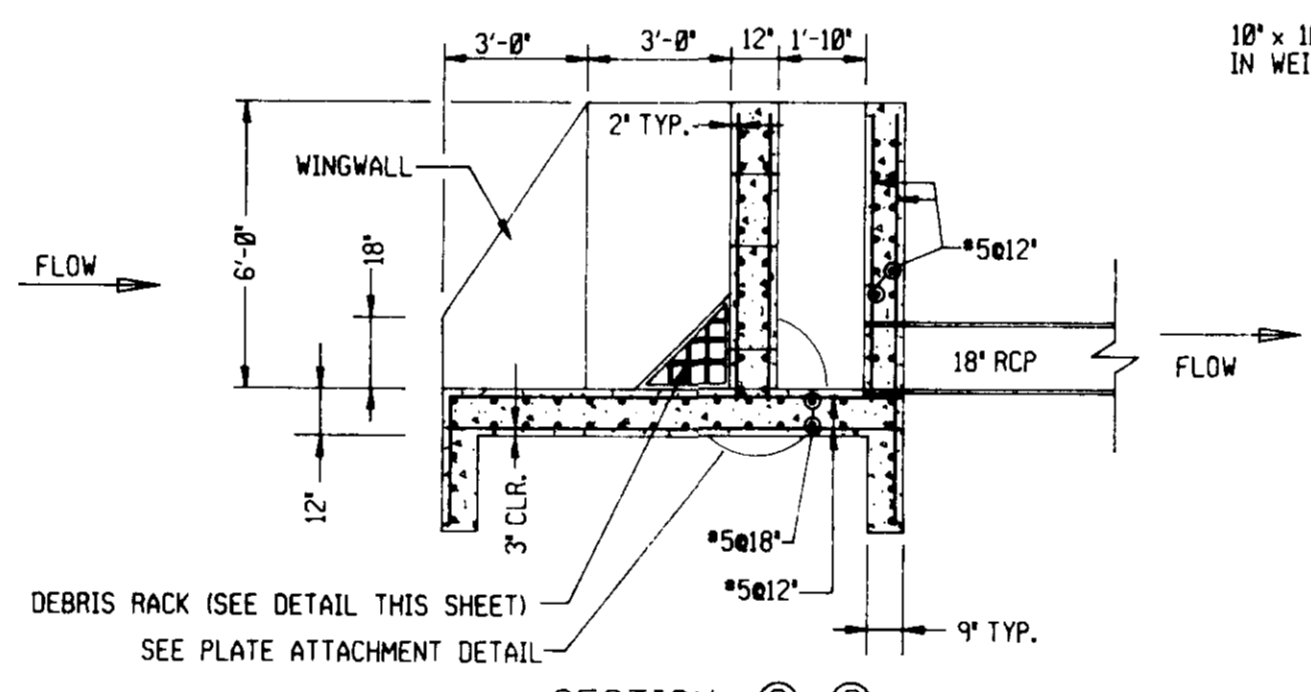
PLAN



SECTION B-B
INLET GRATE AND FRAME NOT SHOWN



SECTION A-A



SECTION C-C
INLET GRATE AND FRAME NOT SHOWN

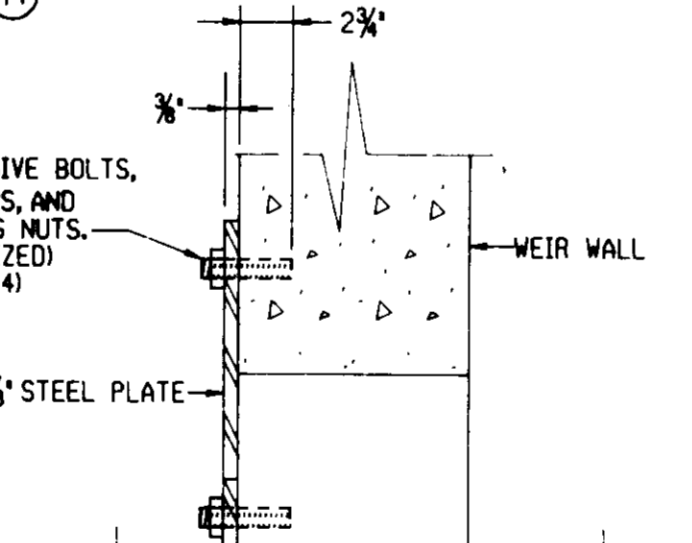
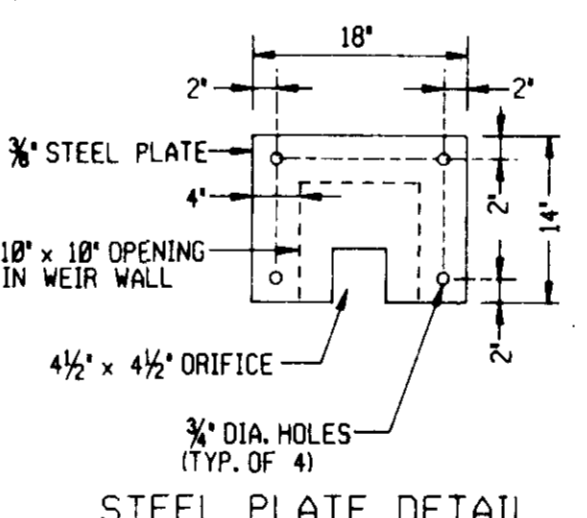


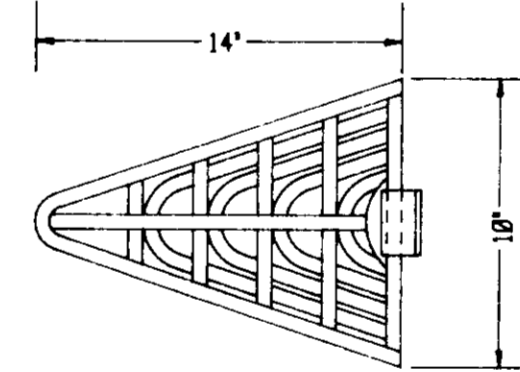
PLATE ATTACHMENT DETAIL
DEBRIS RACK NOT SHOWN



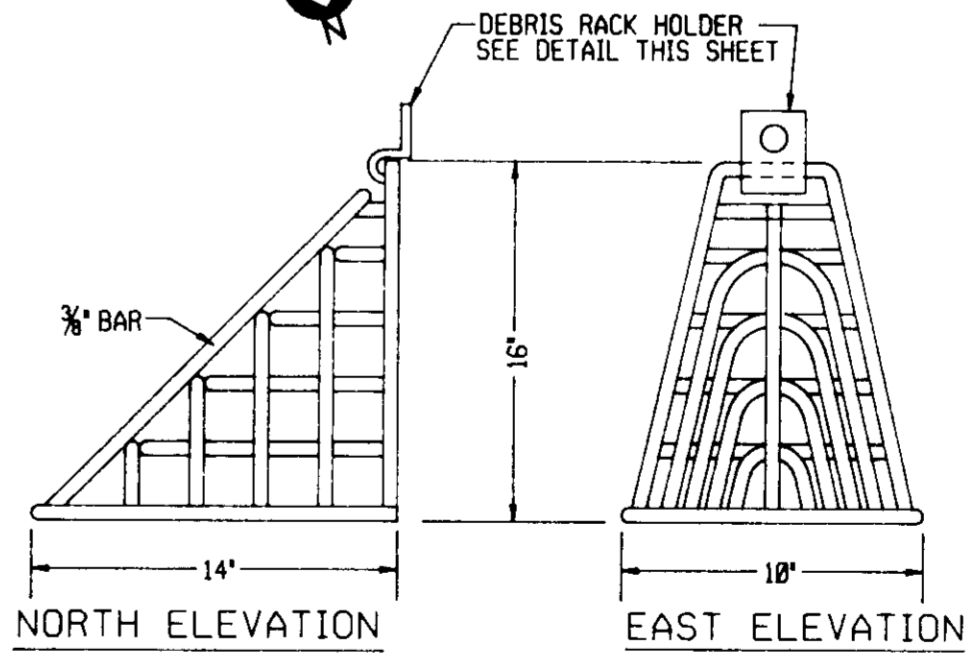
STEEL PLATE DETAIL

- OUTLET STRUCTURE NOTES:
1. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" x 3/4" CHAMFER OR AS DIRECTED.
2. CONCRETE SHALL BE SHA MIX NO. 3 (f'c=3500 PSI @ 28 DAYS)
3. REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60.
4. THE POND SHALL SERVE AS A SEDIMENT TRAP DURING CONSTRUCTION. THE OUTLET STRUCTURE SHOWN ON THIS SHEET IS FOR PERMANENT INSTALLATION. WHEN ALL CONSTRUCTION IS COMPLETE, REFER TO DWG. C-5 FOR THE TEMPORARY SEDIMENT TRAP WEIR WALL CONFIGURATION.

LOW RISE STORMWATER MANAGEMENT CONTROL STRUCTURE
NOT TO SCALE



PLAN



NORTH ELEVATION **EAST ELEVATION**

DEBRIS RACK DETAIL
NOT TO SCALE

1. RACK TO BE CONSTRUCTED OF WELDED 3/8" DIA. BAR.
2. RACK TO BE ATTACHED WITH HOLDER AS DETAILED ON THIS SHEET.
3. CONTRACTOR MAY SUBSTITUTE DESIGN AS APPROVED BY THE ENGINEER.

OWNER: SOUTHERN STATES COOPERATIVE, INC.
P. O. BOX 26234
RICHMOND, VIRGINIA 23260
(804-281-1274)
BA CASE NO. 93-32E
HOWARD COUNTY SDP-94-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>James M. Boyd</i> 1/3/95 COUNTY HEALTH OFFICER	PLAN APPROVAL STAMP
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>James M. Boyd</i> 1/10/95 DIRECTOR	
APPROVED: CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH <i>Gina Murray</i> 1/15/95 DATE	
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>James M. Boyd</i> 12/29/94 DATE	
APPROVED: CHIEF BUREAU OF ENGINEERING, ARCHITECTURE <i>Shirley K. Johnson</i> 12/29/94 DATE	

REV.	DATE	BY	APP.	DESCRIPTION



Wiley & Wilson
ARCHITECTS ENGINEERS PLANNERS
6620 W. Broad Street Road
Suite 250
Richmond, Virginia 23230
(804) 282-5417



PROJECT TITLE SOUTHERN STATES COOPERATIVE, INC. HOWARD COUNTY PETROLEUM SERVICE.			
DEED REF: MWB 198/226	CENSUS TRACT NO: 6023.01	ELECTION DISTRICT NO: 2	
DESIGNED MPM	DRAWN MPM	TAX MAP: 24, BLOCK 2	PARCEL: 67
CHECKED WMD	REVIEWED NBD	WATER CODE: F14	SEWER CODE: 5440000
APPROVED JDC	FILE NO.	REFERENCE	CIVIL
COMM. NO.	9376.00	SHEET TITLE	DETAILS
DATE	OCTOBER 7, 1994	DWG. NO.	C-6
		SHEET NO.	7 OF 9
		REV.	0

MD-378 POND CONSTRUCTION SPECIFICATIONS

SOIL BORING LOGS

THESE SPECIFICATIONS ARE APPROPRIATE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD FOR PRACTICE MD-378. ALL REFERENCES TO ASTM AND AASHTO SPECIFICATIONS APPLY TO THE MOST RECENT VERSION.

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 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. FOR DRY STORMWATER MANAGEMENT PONDS, A MINIMUM OF A 50 FOOT RADIUS AROUND THE INLET STRUCTURE SHALL BE CLEARED.

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.

EARTH FILL

MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6" FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT AND CUT OFF TRENCH SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH OR CL. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL ENGINEER.

PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO 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 SHEEPSFOOT, RUBBER Tired OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL, IT WILL NOT CRUMBLE YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, IT SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN +2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99.

CUT OFF TRENCH - THE CUTOFF TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLAN. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR EXCAVATION WITH THE MINIMUM WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST FOUR FEET BELOW EXISTING GRADE OR AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

STRUCTURE BACKFILL

BACKFILL ADJACENT TO PIPES OR STRUCTURES 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 BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING 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 COMPACTED FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE.

PIPE CONDUITS

ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

REINFORCED CONCRETE PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR REINFORCED CONCRETE PIPE:

1. MATERIALS - REINFORCED CONCRETE PIPE SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS AND SHALL EQUAL OR EXCEED ASTM DESIGNATION C-301.
2. 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 10% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 3 INCHES, OR AS SHOWN ON THE DRAWINGS.
3. LAYING PIPE - BELL AND SPIGOT PIPE SHALL BE PLACED WITH THE BELL END UPSTREAM. JOINTS SHALL BE MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL. AFTER THE JOINTS ARE SEALED FOR THE ENTIRE LINE, 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. THE FIRST JOINT MUST BE LOCATED WITHIN 2 FEET FROM THE RISER.
4. BACKFILLING SHALL CONFORM TO 'STRUCTURE BACKFILL.'
5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

CONCRETE

CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 608, MIX NO. 3.

ROCK RIPRAP

ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 905.

THE RIPRAP SHALL BE PLACED TO THE REQUIRED THICKNESS IN ONE OPERATION. THE RIPRAP SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIPRAP IN PLACE SHALL BE REASONABLY HOMOGENEOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER WITH THE SMALL ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE PLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 919.12.

CARE OF WATER DURING CONSTRUCTION

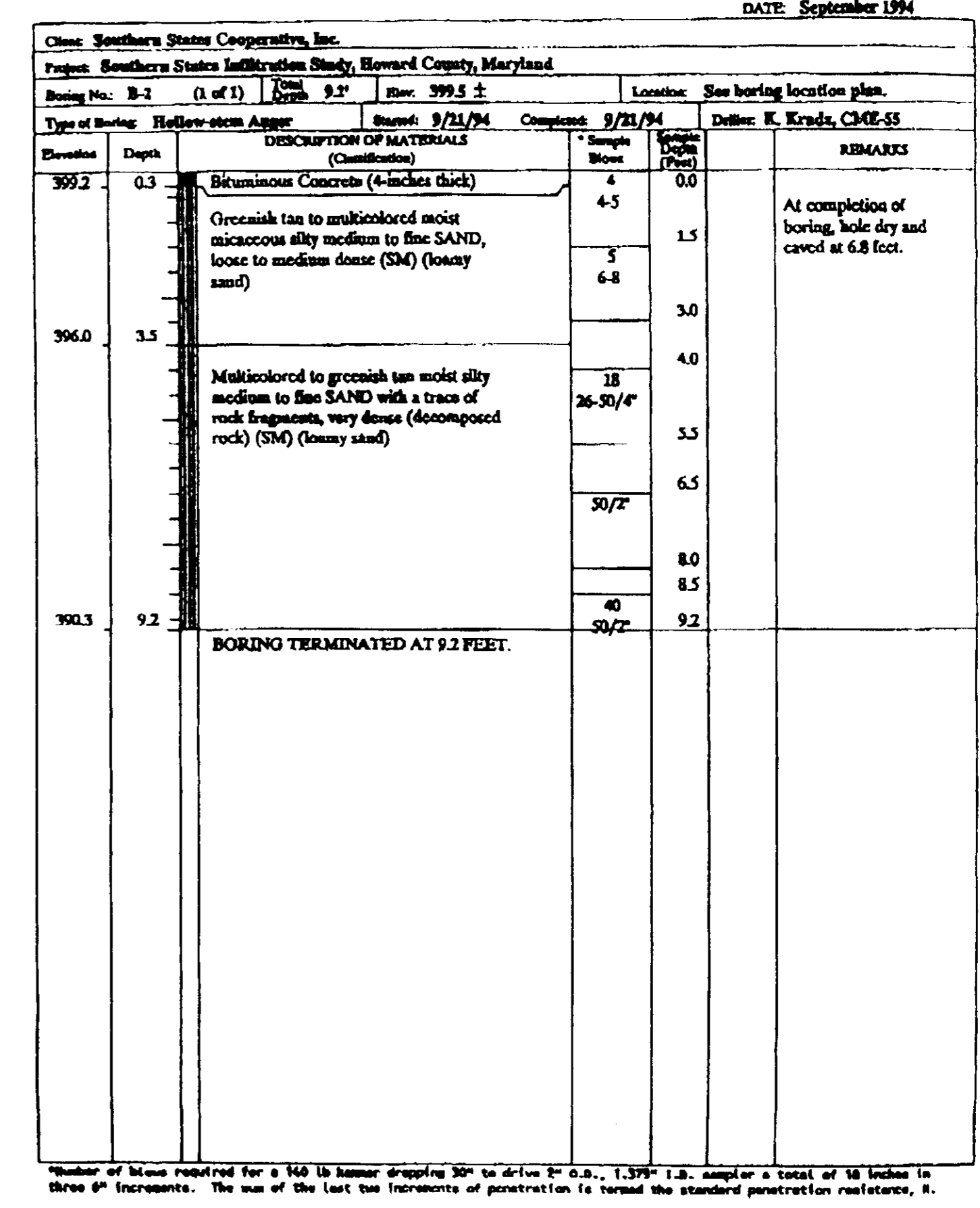
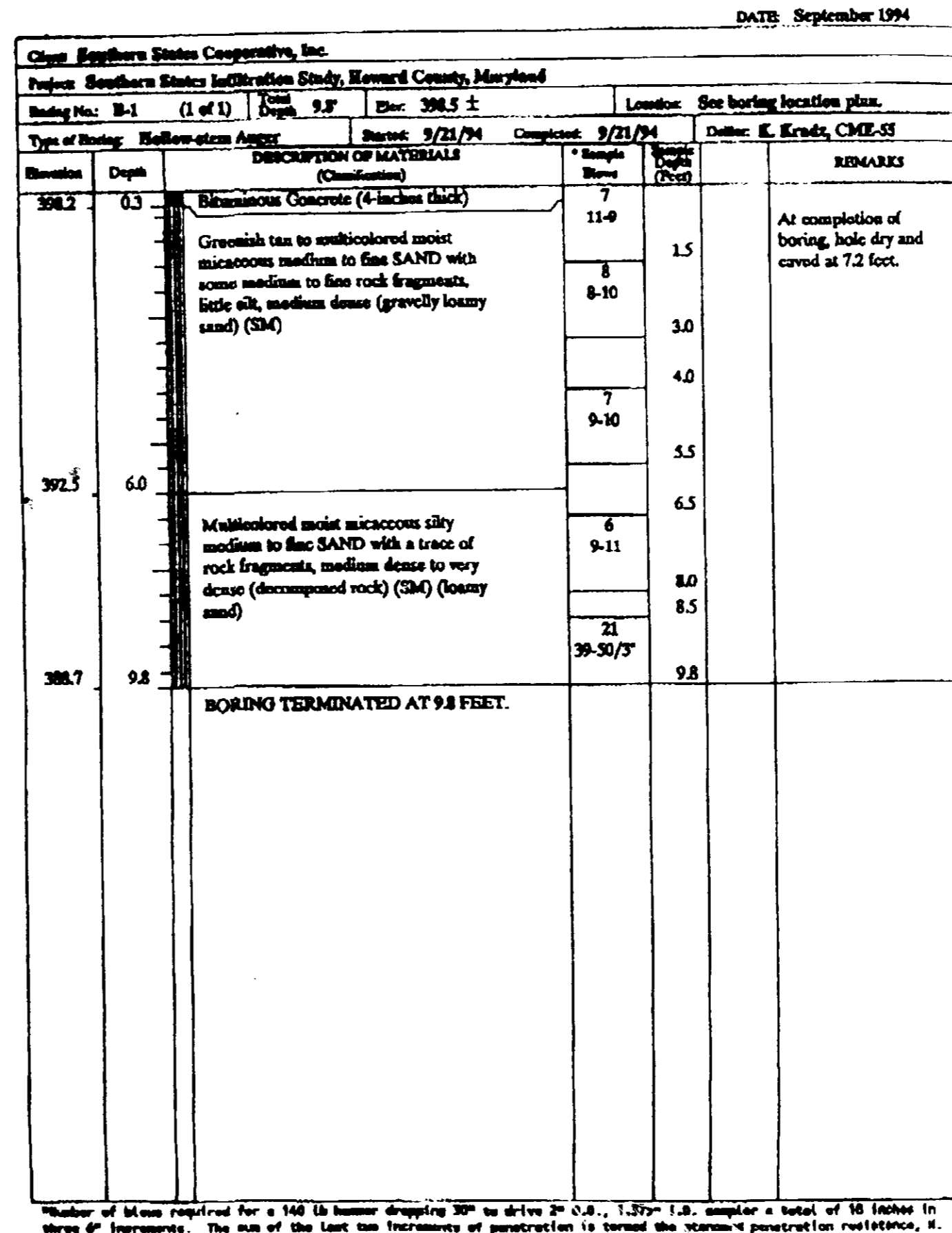
ALL WORK ON PERMANENT STRUCTURE SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO SUMPS FROM WHICH THE WATER SHALL BE PUMPED.

STABILIZATION

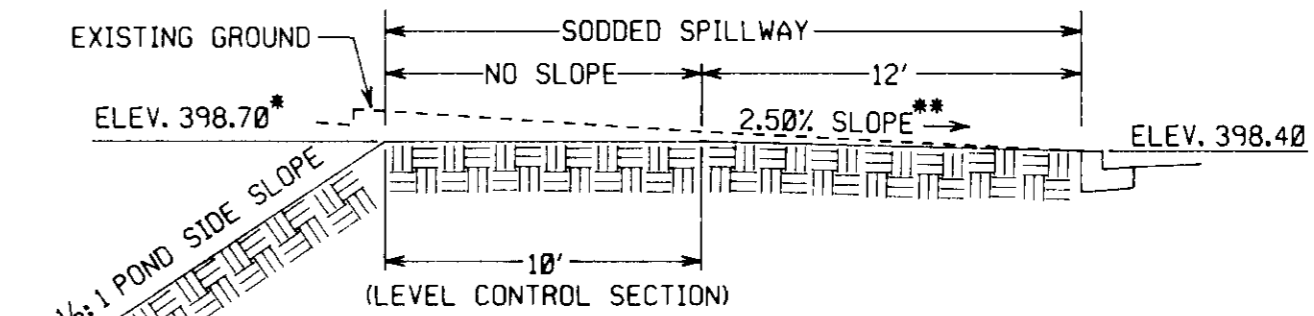
ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY EXPOSED CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICES STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

EROSION AND SEDIMENT CONTROL

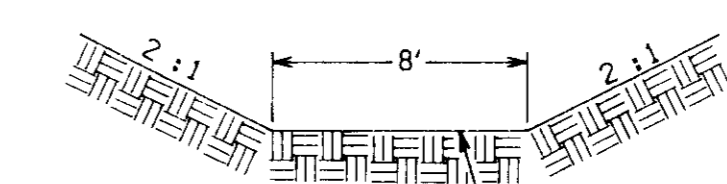
CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.



MINIMUM INFILTRATION RATE (IN/HR)	BEARING CAPACITY
2.41	2,500 PSF



PROFILE ALONG CENTERLINE OF EMERGENCY SPILLWAY



CROSS SECTION OF EMERGENCY SPILLWAY

- * THIS ELEVATION APPLIES TO THE PERMANENT DRAINAGE STRUCTURE. THE ELEVATION FOR THE TEMPORARY SEDIMENT TRAP EMERGENCY SPILLWAY (DURING CONSTRUCTION ONLY) IS 399.60.
- ** THIS SLOPE APPLIES TO THE PERMANENT DRAINAGE STRUCTURE. THE SLOPE FOR THE TEMPORARY SEDIMENT TRAP EMERGENCY SPILLWAY (DURING CONSTRUCTION ONLY) IS 10.0%.

EMERGENCY SPILLWAY FLOW RATE AND VELOCITY
 PERMANENT DRAINAGE STRUCTURE: Q=1.04 CFS, V=1.27 FPS
 TEMPORARY SEDIMENT TRAP: Q=2.08 CFS, V=2.54 FPS

EMERGENCY SPILLWAY DETAILS FOR DETENTION POND AND TEMPORARY SEDIMENT TRAP NOT TO SCALE

OWNER: SOUTHERN STATES COOPERATIVE, INC.
 P. O. BOX 26234
 RICHMOND, VIRGINIA 23260
 (804-281-1274)

BA CASE NO. 93-32E
 HOWARD COUNTY SDP-94-88

WATER QUALITY INLET MAINTENANCE SCHEDULE

UPON COMPLETION OF CONSTRUCTION AND WHEN ALL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED FROM THE SITE, THE WATER QUALITY INLETS SHALL BE CLEANED OF TRAPPED SEDIMENTS, OILS, AND COLLECTED DEBRIS. THEREAFTER, CLEANING AND INSPECTION OF THE WATER QUALITY INLETS SHALL OCCUR EVERY SIX MONTHS. ALL FEATURES OF THE WATER QUALITY INLET AND ITS ASSOCIATED PIPING SHALL BE INSPECTED TO ENSURE THAT THE STRUCTURE IS FUNCTIONING PROPERLY AND REPAIRED IF NECESSARY.

THE CLEANING AND INSPECTING OF THE WATER QUALITY INLETS SHALL BE PERFORMED BY QUALIFIED PERSONNEL. OILS, SEDIMENTS, AND OTHER COLLECTED DEBRIS SHALL BE COLLECTED (PUMPED) FROM THE WATER QUALITY INLETS AND DISPOSED OF PROPERLY. THE WATER QUALITY INLETS SHALL NEVER BE FLUSHED WITH WATER, AS THIS MAY ALLOW THE TRAPPED POLLUTANTS TO ENTER THE STORM SEWER SYSTEM.

DETENTION POND MAINTENANCE SCHEDULE

UPON COMPLETION OF CONSTRUCTION AND WHEN ALL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED FROM THE SITE, THE POND SHALL BE CLEANED OF TRAPPED SEDIMENTS AND DEBRIS. THEREAFTER, CLEANING AND INSPECTION OF THE POND SHALL OCCUR ONCE PER YEAR. THE POND SIDE SLOPES, RIPRAP, LOW FLOW CHANNEL, WEIR WALLS, WEIR WALL, OUTLET ORIFICE, DEBRIS RACK AND OTHER MAJOR COMPONENTS OF THE OUTLET STRUCTURE SHALL BE INSPECTED TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY AND REPAIRED IF NECESSARY. SEDIMENTS AND OTHER COLLECTED DEBRIS SHALL BE EXTRACTED (EXCAVATED) FROM THE POND AND DISPOSED OF PROPERLY. THE POND SHALL NOT BE CLEANED BY FLUSHING WITH WATER AS THIS MAY ALLOW THE TRAPPED POLLUTANTS TO ENTER THE STORM SEWER SYSTEM.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. *James M. Boyd* 1/3/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. *Scott Smith* 1/6/95

APPROVED: DIVISION OF PLANNING AND DEVELOPMENT AND RESEARCH. *Anna Jovanovski* 1/5/95

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. *James G. Lewis* 2/29/94

Elizabeth Anderson 12/29/94

REV.	DATE	BY	APP.	DESCRIPTION



Wily & Wilson
 ARCHITECTS ENGINEERS PLANNERS
 6620 W. Broad Street Road
 Suite 250
 Richmond, Virginia 23230
 (804) 282-5417



PROJECT TITLE SOUTHERN STATES COOPERATIVE, INC. HOWARD COUNTY PETROLEUM SERVICE.	
DEED REF: MWB 198/226	CENSUS TRACT NO: 6023.01
ELECTION DISTRICT NO: 2	HOWARD COUNTY, MARYLAND
DESIGNED: MPM	DRAWN: MPM
CHECKED: WMD	REVIEWED: NBD
APPROVED: JDC	FILE NO. REFERENCE
COMM. NO. 93716.00	SHEET TITLE CIVIL
DATE: OCTOBER 7, 1994	DWG. NO. C-7
	SHEET NO. 8 OF 9

SCHEDULE A
PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties	DUMPSTER
Linear Feet of Roadway Frontage/Perimeter	PERIMETER ① 210 LF.	PER. ② 218.5' PER. ③ 218.5'	218.5'
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	N/A	N/A	N/A
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	N/A	N/A	N/A
Number of Plants Required			
Shade Trees	4	12	2
Evergreen Trees	0	0	4
Shrubs	0	0	0
Number of Plants Provided			
Shade Trees	0	0	2
Evergreen Trees	0	0	4
Other Trees (2:1 substitution)	2	12	0
Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	0	0	0

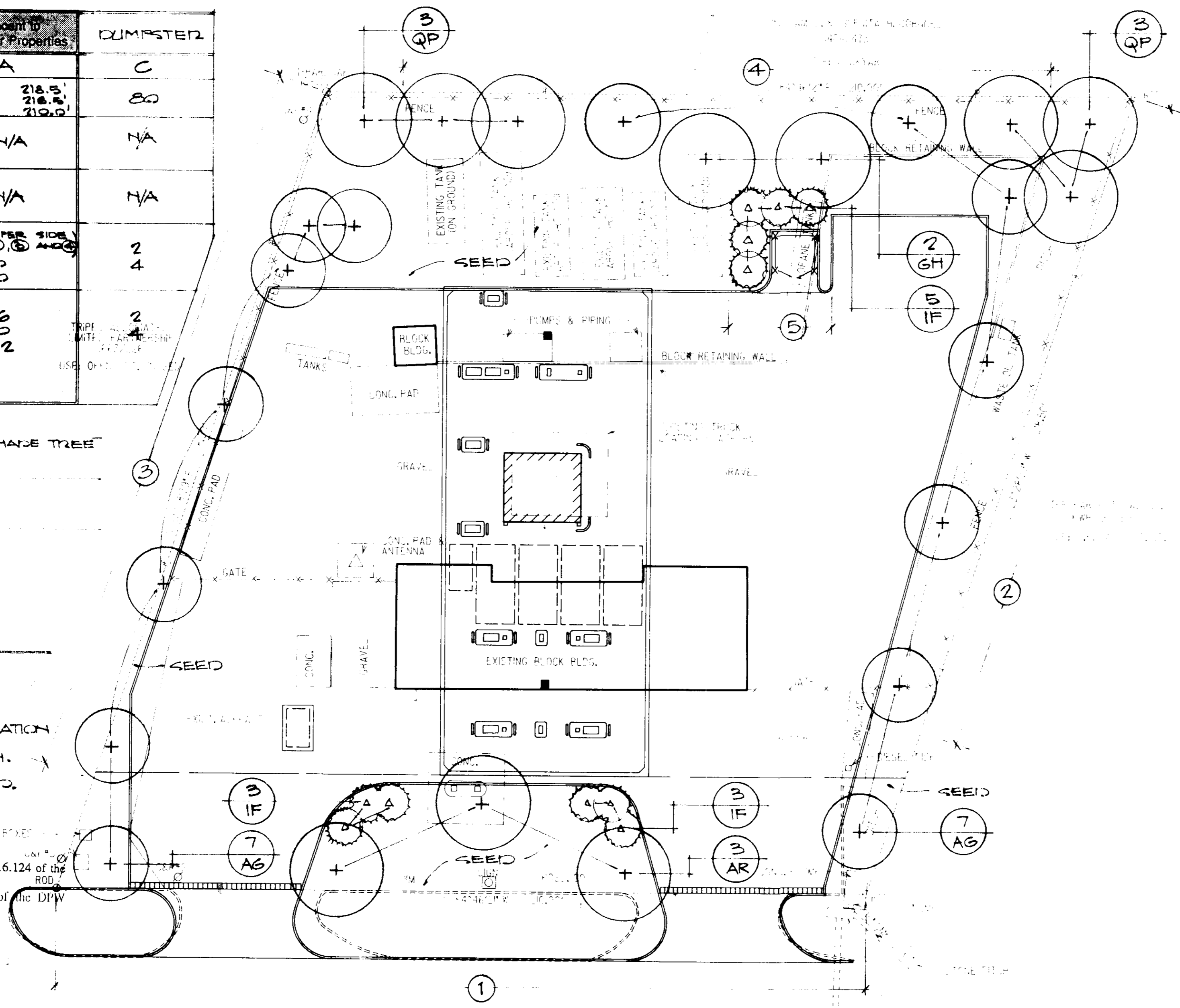
PERIMETER ① AND ④ SUBSTITUTED ② ORNAMENTAL TREES FOR 1 SHADE TREE

PERIMETER ② SUBSTITUTED 4 ORNAMENTAL TREES FOR 2 SHADE TREES

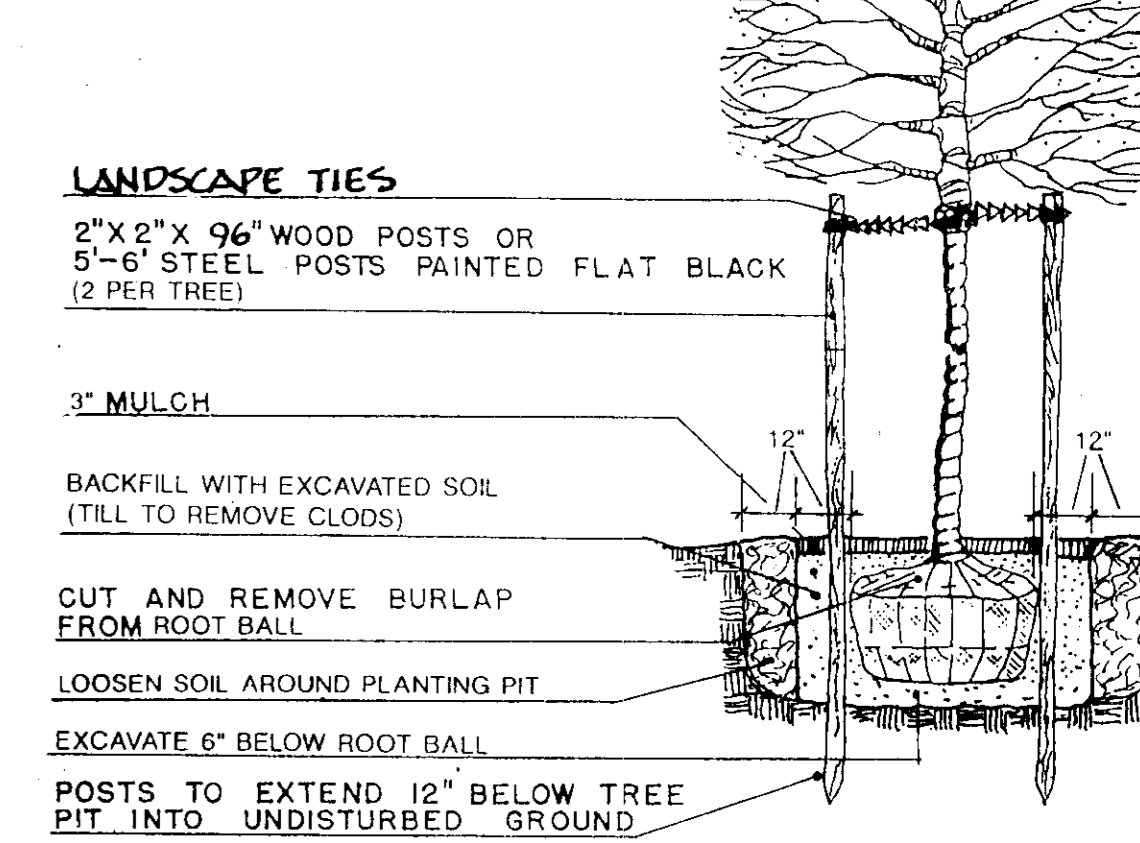
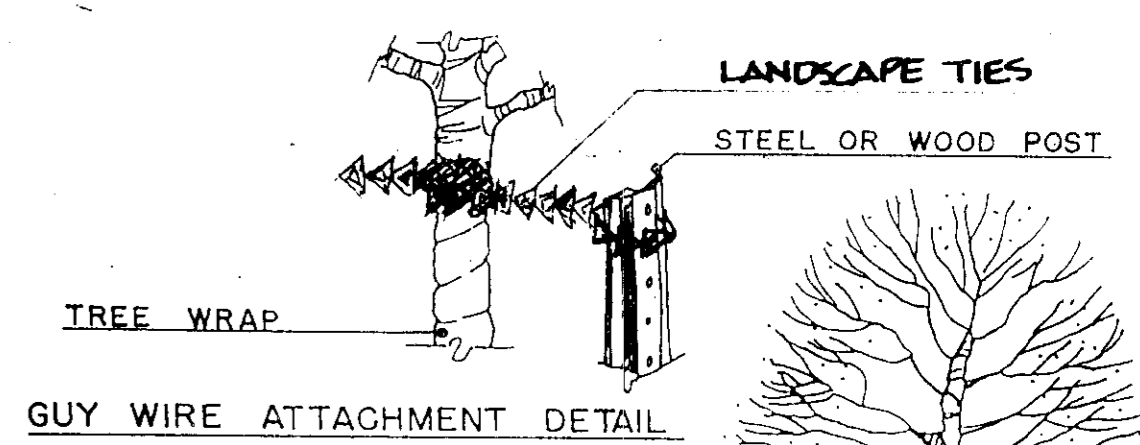
PERIMETER ③ SUBSTITUTED ⑥ ORNAMENTAL TREES FOR 3 SHADE TREES

NOTE:

1. PROVIDE 3" DIA. MULCH BEDS AT BASE OF ALL TREES.
 2. PLANT INSTALLATION MUST CONFORM TO THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
 3. ALL PLANT MATERIAL SHOWN IS PROPOSED. SITE HAS NO EXISTING TREES/VEGETATION.
- ▲ PLANT QUANTITY
● PLANT KEY
4. "This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual."
 5. "Financial surety for the required landscaping has been posted as part of the DPW Developer's Agreement in the amount of \$2700.00."

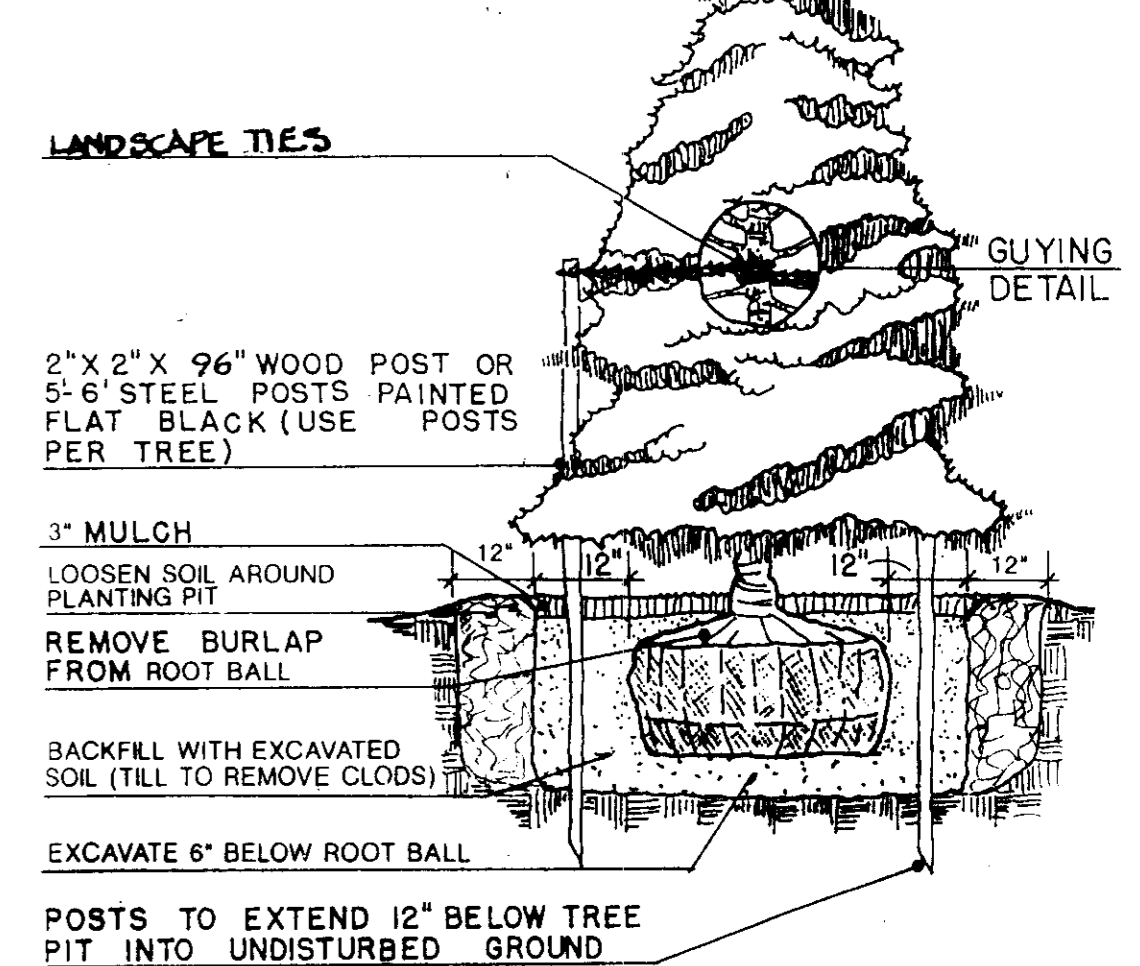


NOTE:
TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO PREVIOUSLY EXISTING GRADE.



① TREE PLANTING DETAIL
N.T.S.

NOTE:
TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO PREVIOUSLY EXISTING GRADE.



② CONIFER PLANTING DETAIL
N.T.S.

PLAN APPROVAL STAMP

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

Joyce M. Boyd per *JPM* 1/3/95
TOWN HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 1/10/95
DIRECTOR DATE

Uma Summari 1/5/95
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

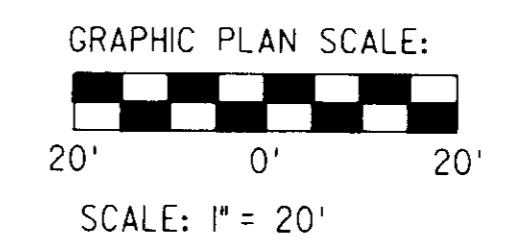
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 12/29/94
DIRECTOR DATE

Elizabeth Anderson-Callea 12/29/94
CHIEF, BUREAU OF ENGINEERING DATE

SITE PLAN
SCALE: 1" = 20'

Plant Detail	QTY	SYM	PLANT MATERIALS		SCHEDULE			
			Botanical Name	Common Name	HGT. SPRD	Caliper	CONT	Remarks
1	14	AG	ACER GRiseum	PAPERBARK MAPLE		1 1/2"		
1	3	AR	ACER R. 'BOWHALL'	BOWHALL MAPLE		2 1/2"		
1	2	GH	GLADITSIA TL. 'HALKA'	HALKA HONEYLOCUST		2 1/2"		
1	4	QP	QUERCUS PHellos	WILLOW OAK		2 1/2"		
1	11	IF	ILEX A. 'FOSTERII'	FOSTER HOLLY	5-6'			



SITE ADDRESS: 10665 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND

OWNER: SOUTHERN STATES PETROLEUM COOPERATIVE, INC.
P.O. BOX 26234
RICHMOND, VIRGINIA 23260

PROJECT ENGINEER: WILEY & WILSON
6620 W. BROAD STREET
SUITE 250
RICHMOND, VIRGINIA 23230

LANDSCAPING: LAND PLANNING & DESIGN ASSOC., INC.
P.O. BOX 1606
CHARLOTTESVILLE, VA 22902

BA CASE NO. 93-32E
HOWARD COUNTY SDP-94-88

PROJECT TITLE: SOUTHERN STATES HOWARD COUNTY PETROLEUM COOPERATIVE, INC.

DEED REF: MWB 198/226 CENSUS TRACT NO: 6023.01

ELECTION DISTRICT NO: 2 HOWARD COUNTY, MARYLAND

DESIGNED: NST TAX MAP: 24, BLOCK 2 PARCEL: 67

CHECKED: PG REVIEWED: WATER CODE: F14 SEWER CODE: 5440000

APPROVED: NST FILE NO. REFERENCE: LANDSCAPE ARCHITECTURE

COMM. NO. 93786.00 SHEET TITLE: LANDSCAPE PLAN

DATE: OCTOBER 7, 1994 DWG. NO. LS-1 SHEET NO. 9 OF 9 REV. 0

REV.	DATE	BY	APP.	DESCRIPTION

Ray Stanley
12-12-94

LPDA
LAND PLANNING AND DESIGN ASSOCIATES, INC.
LANDSCAPE ARCHITECTS AND PLANNERS
Charlottesville, VA

SOUTHERN STATES