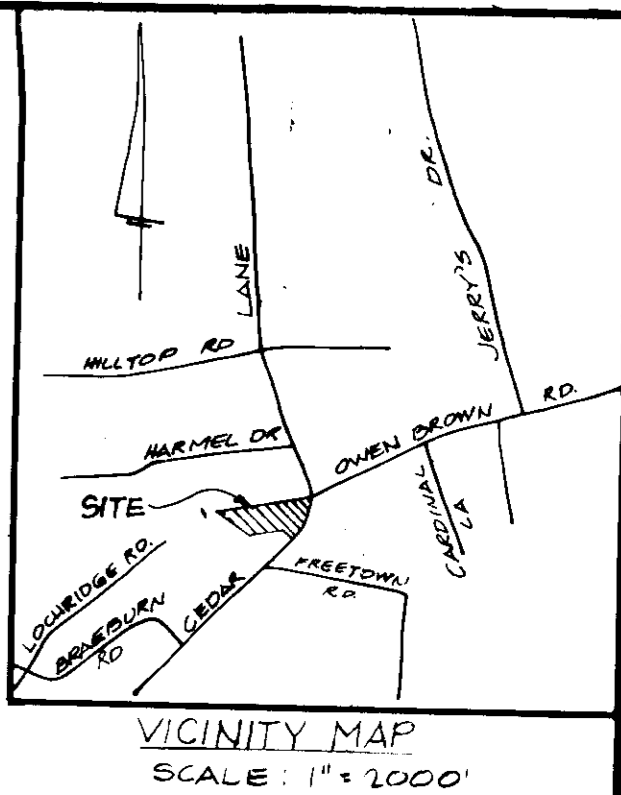


SITE ANALYSIS

PRESENT ZONING - 'B-R'	See ZB 699
NUMBER OF BEDS	120
NUMBER OF EMPLOYEES	36
PARKING REQUIRED	78 SPACES
PARKING PROVIDED	78 SPACES
TOTAL FLOOR SPACE	38,868 S.F.
SITE AREA	5.159 ACRES
DISTURBED AREA	3.610 ACRES
AREA LEFT NATURAL	1.549 ACRES
ROOF AREA	12,956 SF (0.30 AC)
PAVED AREA	24,411 SF (0.56 AC)
VEGETATED AREA	4.18 ACRES



INDEX OF SITE DRAWINGS

SP-1	COVER SHEET
SP-2	SITE PLAN
SP-3	EROSION CONTROL PLAN
SP-4	PROFILES & DETAILS
SP-5	CEDAR LANE PLAN & PROFILE

EROSION CONTROL SPECIFICATIONS

A. GENERAL

- PROVIDE LABOR AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL ITEMS. SUCH ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO, TEMPORARY AND/OR PERMANENT SEEDING AND SODDING, PLANTING, SEDIMENT TRAPS, AND DIVERSION DIKES.
- THE INTENT IS TO MINIMIZE THE INCREASE OF SOIL EROSION AND PREVENT SEDIMENT TRANSPORT OFF THE SITE.
- TEMPORARY EROSION AND SILTATION CONTROL MEASURES SHALL BE APPLIED TO ALL ERODIBLE MATERIAL EXPOSED DURING CONSTRUCTION INCLUDING EXCAVATIONS, STOCKPILES AND SPOIL AREAS.
- TEMPORARY EROSION AND SILTATION CONTROL MEASURES SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT DRAINAGE FACILITIES, WHICH SHALL BE CONSTRUCTED PRIOR TO OR AS SOON AS PRACTICABLE AFTER GRADING OPERATION IS BEGUN TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS EROSION AND SILTATION CONTROL.
- REMOVE TEMPORARY CONTROL MEASURES AFTER PERMANENT DRAINAGE, GRADING AND SEEDING WORK IS COMPLETED, OR WHEN THEY ARE NO LONGER NEEDED.

B. MATERIALS

- SEED SHALL BE KENTUCKY 31 TALL FESCUE CERTIFIED MIXTURE WITH A MINIMUM OF 97 PERCENT PURITY AND A MINIMUM GERMINATION OF 85 PERCENT. SEED SHALL BE DELIVERED IN PACKAGES THAT ARE CLEARLY LABELED TO SHOW THAT THE CONTENTS MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. SEED FOR TEMPORARY STABILIZATION SHALL BE PERENNIAL RYEGRASS.
- THE CLASS OF SOD SHALL BE STATE "APPROVED SOD" AND SHALL BEAR AN OFFICIAL MARYLAND OR VIRGINIA LABEL ON THE BILL OF LADING. TURFGRASS SOD SHALL BE COMPOSED OF THE FOLLOWING GRASSES:

KENTUCKY 31 TALL FESCUE	80-100 PERCENT
KENTUCKY BLUEGRASSES	0-20 PERCENT

 THE KENTUCKY BLUEGRASS PORTION SHALL CONTAIN AT LEAST 50 PERCENT MERION BLUEGRASS.
 - SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.

- STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY FROM A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- MULCH FOR SLOPE PROTECTION SHALL BE UNWEATHERED, UNCHOPPED, SMALL GRAIN STRAW, PREFERABLY WHEAT STRAW.
- #### C. WORKMANSHIP

 - THE CONTRACTOR SHALL LIMIT THE AREA OF EXCAVATION OPERATIONS IN PROGRESS COMMENSURATE WITH ITS CAPABILITY TO KEEP FINISH GRADING, MULCHING, SEEDING AND OTHER SUCH PERMANENT EROSION CONTROL MEASURES CURRENT. SHOULD SEASONAL LIMITATIONS MAKE SUCH COORDINATION UNREALISTIC, TEMPORARY EROSION CONTROL MEASURES SHALL BE TAKEN IMMEDIATELY TO THE EXTENT FEASIBLE AND JUSTIFIED. ALL CONSTRUCTION SHALL BE CONFINED TO THE MINIMUM AREA NECESSARY TO ACCOMMODATE THE CONTRACTOR'S EQUIPMENT AND WORK FORCE ENGAGED IN THE PROJECT.
 - PRESERVE EXISTING VEGETATIVE GROUND COVER TO THE GREATEST EXTENT POSSIBLE AND FERTILIZE DURING CONSTRUCTION WITHIN THE LIMITS OF THE CONTRACT AS INDICATED ON THE DRAWINGS.
 - CONSTRUCT TEMPORARY SEDIMENT TRAPS AROUND DRAINAGE STRUCTURES AS SHOWN. KEEP UNPROTECTED PIPES AND/OR STRUCTURES CLOSED UNTIL PERMANENT CONNECTIONS ARE MADE AND/OR GRADING AND SEEDING ARE COMPLETED.
 - #### SEEDING PREPARATION

 - APPLY 2,000 POUNDS PER ACRE OR 46 POUNDS PER 1000 SQ. FT. OF PULVERIZED DOLOMITIC LIMESTONE, 500 TO 4,000 POUNDS PER ACRE OR 11.5 TO 23 POUNDS PER 1,000 SQ. FT. OF 0-20-0, SUPERPHOSPHATE, 1,000 SQ. FT. OF 10-10-10 FERTILIZER OR ITS EQUIVALENT. IF SOILS ARE REASONABLY UNIFORM, LIME AND FERTILIZER ACCORDING TO SOIL TEST.
 - HARROW OR DISC LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 2-3 INCHES. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE, FIRM SHEBDED HAS BEEN PREPARED. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR WHEREVER FEASIBLE.

5. SEEDING, TEMPORARY AND PERMANENT

- APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER ON A FIRM, MOIST SEED-BED. SEED AT THE RATE OF 60 POUNDS PER ACRE FOR PERMANENT SEEDING.
- WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS. WITH A CULTIPACKER, ROLLER OR LIGHT DRAG, OR FOLLOWING MULCH APPLICATION WITH THE MULCH ANCHORING TOOL OR PICK CHAIN. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE. NORMAL COVERAGE IS FROM 1/4 TO 1/2 INCHES OF SOIL.
- SEEDING RATE FOR TEMPORARY STABILIZATION SHALL BE 40 POUNDS PER ACRE.
- MULCH SHALL BE ANCHORED BY MEANS OF PEGS AND TWINE, MULCH NETTINGS, SLITS, OR MULCH ANCHORING TOOL. ANCHORING SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER MULCHING TO MINIMIZE LOSS BY WIND OR WATER. APPLY MULCH AT RATE OF 69 TO 92 POUNDS PER 1000 SQ. FT.
- #### MAINTENANCE

 - MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD. CLEAN SEDIMENT TRAPS AFTER EACH RAIN TO PREVENT OVERTOPPING.
 - IRRIGATION. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.
 - REPAIRS. INSPECT ALL SEEDBED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND RESEEDING WITHIN THE PLANTING SEASON IF POSSIBLE.
 - IF STAND IS INADEQUATE, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED.
 - IF STAND IS OVER 60 PERCENT DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER, SEEDBED PREPARATION AND SEEDING RECOMMENDATIONS.

GENERAL NOTES

- TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY MADE BY APR ASSOCIATES, DATED JUNE 17, 1975.
- PERMISSION TO GRADE PORTIONS OF ADJACENT LOT 4, HERDING RESUB., HAS BEEN OBTAINED.
- ELEVATIONS BASED ON USCEGS DATUM. CONTOUR INTERVAL IS 2 FT FOR EXISTING, 1 FT FOR NEW CONTOURS.
- ALL DIMENSIONS ARE TO FACE OF CURB OR WALL UNLESS OTHERWISE NOTED.
- COORDINATES ARE BASED ON THE MARYLAND GRID SYSTEM.
- ALL STORM DRAIN, SANITARY SEWER & PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE & STANDARD SPECIFICATIONS, LATEST REVISION.
- ALL EROSION CONTROL STRUCTURES SHALL BE CONSTRUCTED & MAINTAINED IN ACCORDANCE WITH THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL IN DEVELOPING AREAS" OF THE U.S. SOIL CONSERVATION SERVICE, UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL PLACE PLYWOOD OVER THE OPEN END OF ANY UNFINISHED STORM DRAIN AT THE END OF EACH WORKING DAY.
- NOTIFY HOWARD SOIL CONSERVATION DISTRICT AND THE BUREAU OF INSPECTIONS AND PERMITS 24 HOURS BEFORE STARTING ANY WORK.
- ALL STRUCTURAL SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD SOIL CONSERVATION DISTRICT, PHONE (301) 465-3180, EXTENSION 328.
- DRIVEWAYS AND PARKING AREAS SHOWN AREA PRIVATE.
- THE STORM WATER MANAGEMENT POND SHALL BE MAINTAINED BY THE PROPERTY OWNER, ITS SUCCESSORS AND ASSIGNS.
- PROPERTY OWNER: NICHOLAS B. MANGIONE
7112 DARLINGTON DRIVE
BALTIMORE, MD 21234
(301) 661-4500

CONSTRUCTION SEQUENCE

- CONSTRUCT ENTRANCE PAD, SEDIMENT TRAP, PERIMETER DIKES AND TEMPORARY STABILIZATION.
- CLEAR SITE WITHIN GRADING LIMITS.
- CONSTRUCT STORM DRAINS. (SEE NOTE 8)
- PERFORM GRADING AND BUILDING EXCAVATION.
- CONSTRUCT BUILDING.
- CONSTRUCT POND, CURBS AND PAVEMENTS.
- PERFORM FINAL GRADING AND PERMANENT SEEDING.
- COMPLETE MISC. SITE APPURTENANCES, AND REMOVE SEDIMENT CONTROL MEASURES.

Declaration for Water Moratorium:

Public water is not available to Lot No. 3A shown on this site development plan. Any required water extension will not be connected to the public water system until all necessary water transmission mains are completely constructed and water is allocated for this property by Howard County. Furthermore, the use and occupancy permits for the Lorien Nursing Home will not be issued where public water is required until:

- The water supply to the County is sufficiently increased and allocation of this property is made by Howard County.
- The water and sewer extensions for this lot are constructed and in service.

ACCEPTED AS A CONDITIONAL APPROVAL:

By: *[Signature]*
DATE: *[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]
U.S. Soil Conservation Service Date: *[Date]*

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE:

[Signature] 11-30-76
HOWARD COUNTY HEALTH OFFICER DATE:

APPROVAL FOR PUBLIC SEWER, STORM DRAINAGE AND PUBLIC ROADS. CONDITIONAL APPROVAL FOR PUBLIC WATER IN ACCORDANCE WITH THE ABOVE DECLARATION.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 11-23-76
DIRECTOR OF PUBLIC WORKS DATE:

[Signature] 11/23/76
CHIEF, BUREAU OF HIGHWAYS DATE:

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 12-2-76
PLANNING DIRECTOR DATE:

[Signature] 11-2-76
CHIEF, DIVISION OF LAND DEVELOPMENT DATE:

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."

[Signature] Date: *[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."

[Signature] Date: *[Date]*

ALPHATEC, P.C.
ENGINEERS CONSULTANTS PLANNERS
4301 CONNECTICUT AVE. NW
WASHINGTON, D.C. 20008
202 363-9000



LOT 3A HERDING RESUBDIVISION, PLAT BOOK #3562
FIFTH ELECTION DISTRICT
LIBER 454, PAGE 113 TAX MAP 35, PARCEL 107
HOWARD COUNTY, MARYLAND

LORIEN NURSING HOME

COMPRO HEALTH, INC.
(COMMERCIAL CONTRACTORS, INC.)
1205 YORK ROAD
LUTHERVILLE, MARYLAND 21093
(301) 825-8400

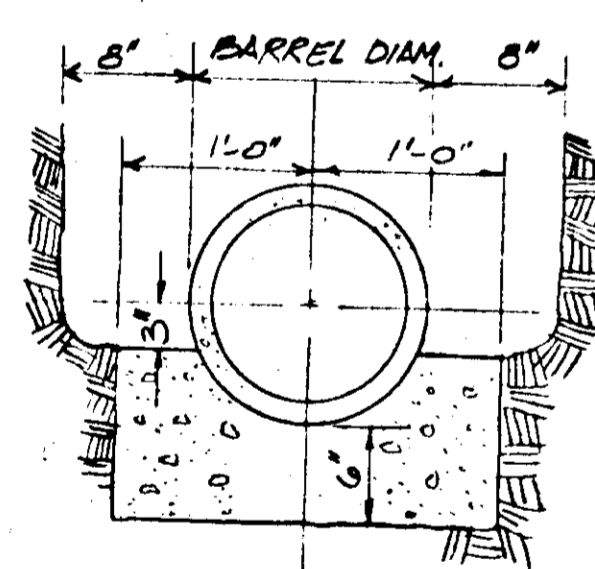
JOB NO.	72-84
DATE	7-9-76
SCALE	NOTED
DRAWN	JWH
CHECKED	DFA
SHEET NO.	SP-1
OF 5	1

STORM DRAIN STRUCTURES

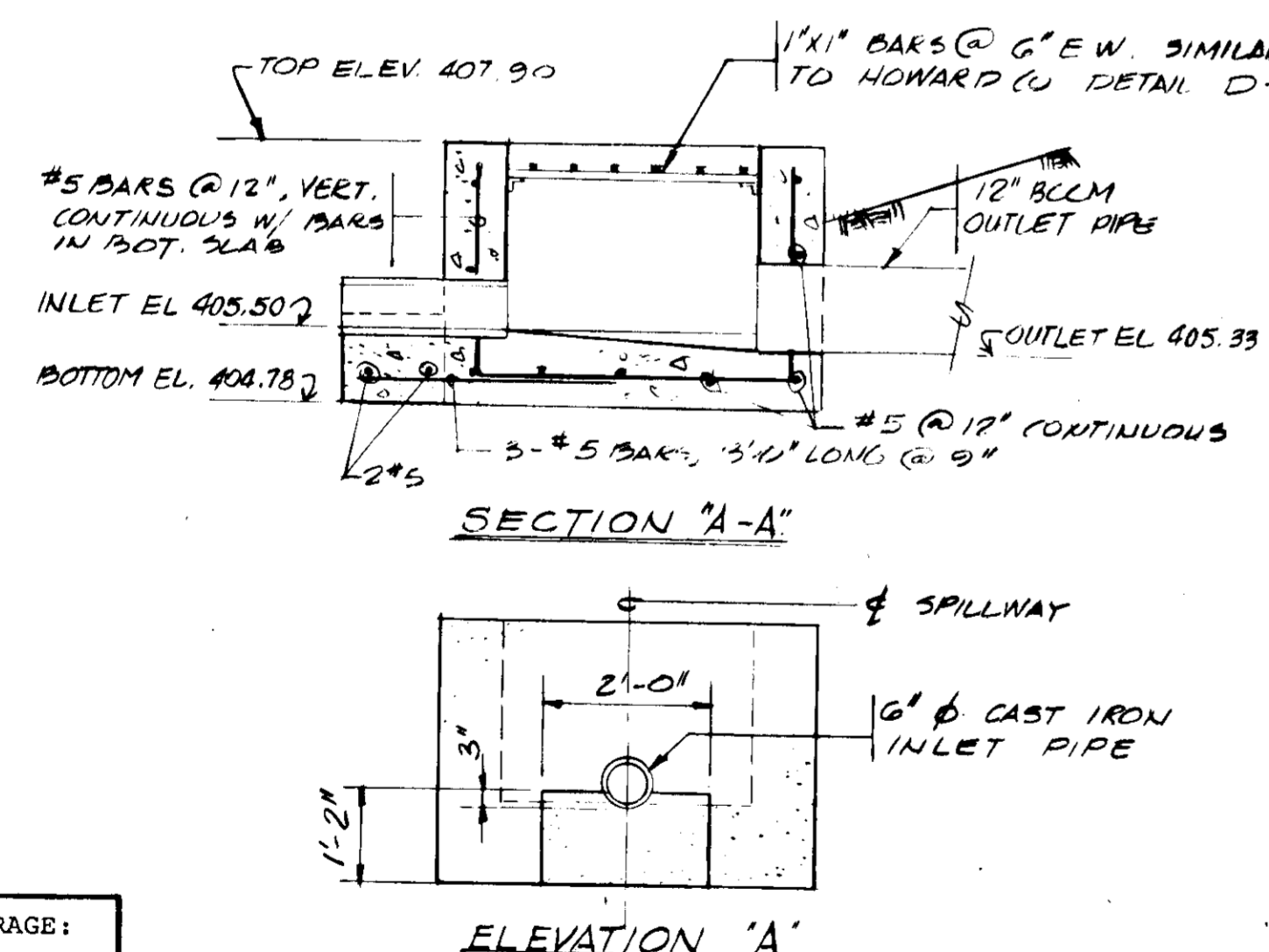
STR. NO.	TOP ELEV.	INVERT	DESCRIPTION
1	-	402.00	FLARED END SECTION BIT COATED C.M.P.
2	-	405.50	PRINCIPLE SPILLWAY ENTRANCE STRUCTURE SEE DETAIL SHT 2 OF 2
3	408.00	406.00	STD TYPE "C" ENDWALL DET. D-52 PG. 107
4	GRATE EL. 409.00	407.02	STD. INLET, CLASS "A-5" DET. G4-A PG. 119 A
5	GRATE EL. 411.60	407.82	STD. INLET, CLASS "D" DET. D-65, PG. 120
6	407.75	406.00	STD TYPE "C" ENDWALL DET. D-52, PG. 107
7	GRATE EL. 410.30	407.10	STD. INLET, CLASS "D" DET. D-65, PG. 120
8	-	406.00	C.I. ROOF DRAIN EMPTY ON GRADE

NOTE: DETAIL & PAGE NUMBERS REFER TO HOWARD COUNTY ROAD CONSTRUCTION CODE & STANDARD SPECIFICATION.

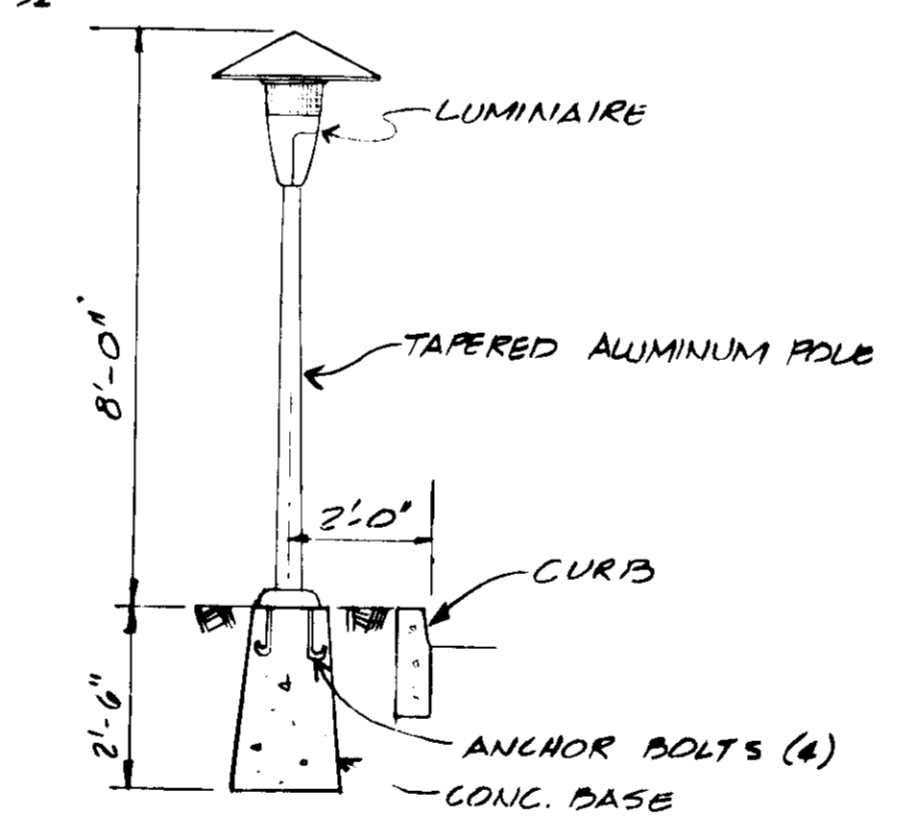
CONTROL POINTS		
POINT No.	COORDINATES	
	N	E
1	496,969.82	832,794.19
2	496,827.02	832,729.47
3	496,592.29	832,580.68
4	496,647.79	832,505.49
5	496,625.25	832,176.26
6	496,901.96	831,801.51
7	496,694.0	832,448.2
8	496,899.8	832,523.7



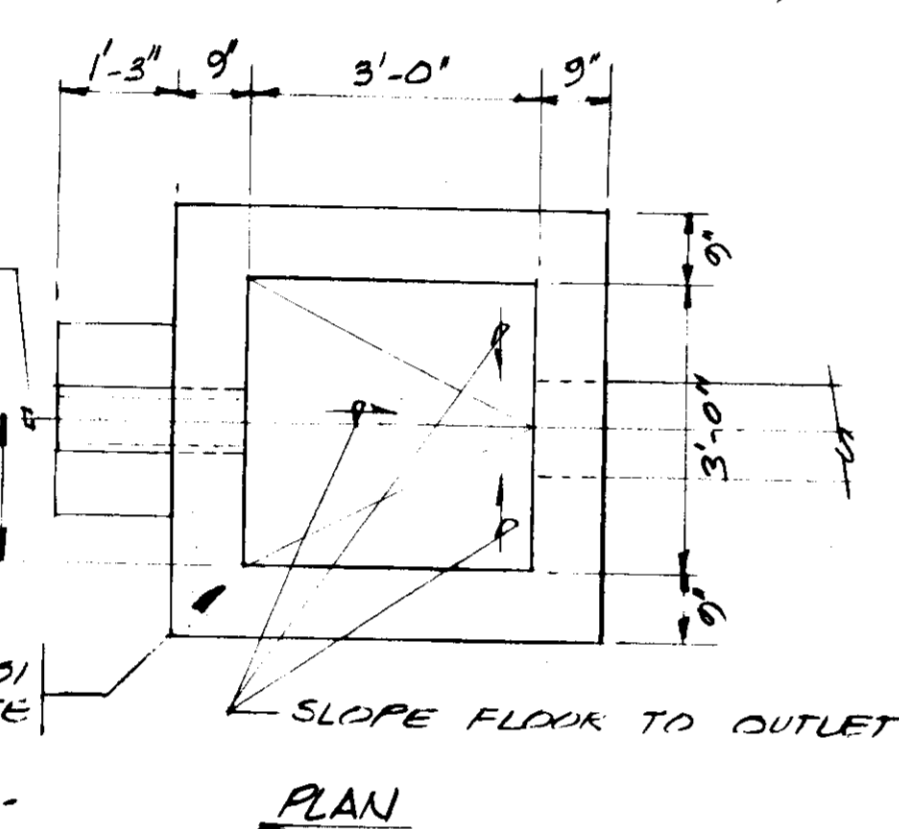
SPECIAL CONCRETE PIPE CRADLE
SCALE 1"=1'-0"



ELEVATION "A"
PRINCIPLE SPILLWAY INLET STRUCTURE
SCALE 1/2"=1'-0"

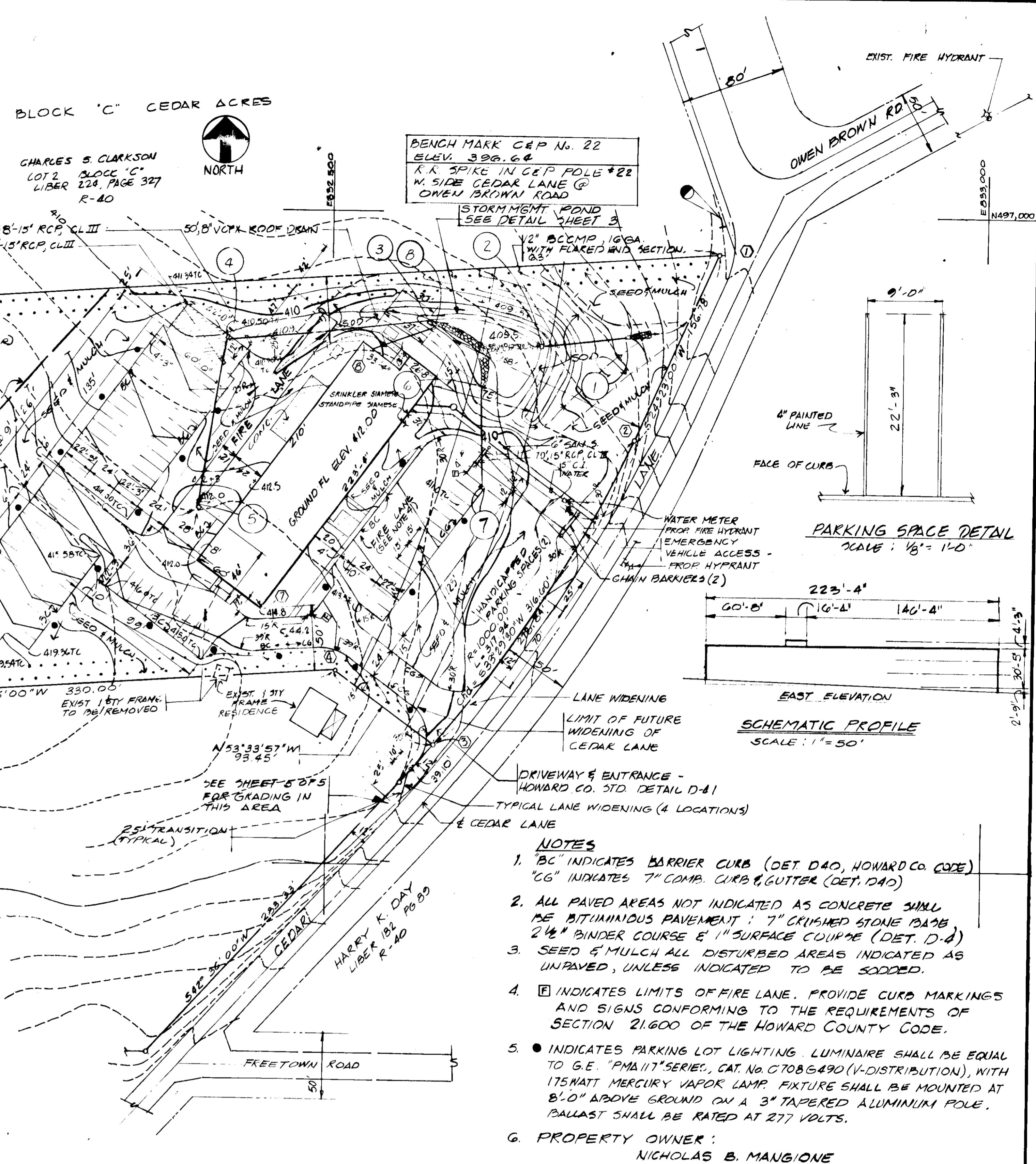


LIGHTING STANDARD
SCALE 3/8"=1'-0"



PLAN

SITE PLAN
SCALE 1"=50'



- NOTES**
1. "BC" INDICATES BARRIER CURB (DET. D40, HOWARD CO. CODE). "CG" INDICATES 7" COMP. CURB & GUTTER (DET. D40).
 2. ALL PAVED AREAS NOT INDICATED AS CONCRETE SHALL BE BITUMINOUS PAVEMENT: 7" CRUSHED STONE BASE, 2 1/2" BINDER COURSE & 1" SURFACE COURSE (DET. D-4).
 3. SEED & MULCH ALL DISTURBED AREAS INDICATED AS UNPAVED, UNLESS INDICATED TO BE SODED.
 4. [] INDICATES LIMITS OF FIRE LANE. PROVIDE CURB MARKINGS AND SIGNS CONFORMING TO THE REQUIREMENTS OF SECTION 21.600 OF THE HOWARD COUNTY CODE.
 5. ● INDICATES PARKING LOT LIGHTING. LUMINAIRE SHALL BE EQUAL TO G.E. "PM117" SERIES, CAT. NO. C70B6490 (V-DISTRIBUTION), WITH 175WATT MERCURY VAPOR LAMP. FIXTURE SHALL BE MOUNTED AT 8'-0" ABOVE GROUND ON A 3" TAPERED ALUMINUM POLE. BALLAST SHALL BE RATED AT 277 VOLTS.
 6. PROPERTY OWNER: NICHOLAS B. MANGIONE, 7112 DARLINGTON DRIVE, BALTIMORE, MD 21234, (301) 661-4500.

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE 10-27-76
Thomas J. Hough
COHEN-KARYDAS AND ASSOCIATES, INC.
ARCHITECTS AND PLANNERS
WASHINGTON, D. C.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE:
Joseph Boyd
HOWARD COUNTY HEALTH OFFICER
DATE: 11-30-76

APPROVED FOR PUBLIC SEWER, STORM DRAINAGE AND PUBLIC ROADS. CONDITIONAL APPROVAL FOR PUBLIC WATER IN ACCORDANCE W/ DECLARATION ON SHEET 1 OF 5
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
SIGNATURE: *J. P. Reed*
DIRECTOR OF PUBLIC WORKS
DATE: 11-23-76
SIGNATURE: *L. N. Newland*
CHIEF, BUREAU OF HIGHWAYS
DATE: 11/23/76

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING:
SIGNATURE: *Thomas J. Hough*
PLANNING DIRECTOR
DATE: 12-2-76
SIGNATURE: *Richard F. Scales*
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 12-2-76

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: *Eric L. Pearson*
U.S. Soil Conservation Service Date: 11/22/76

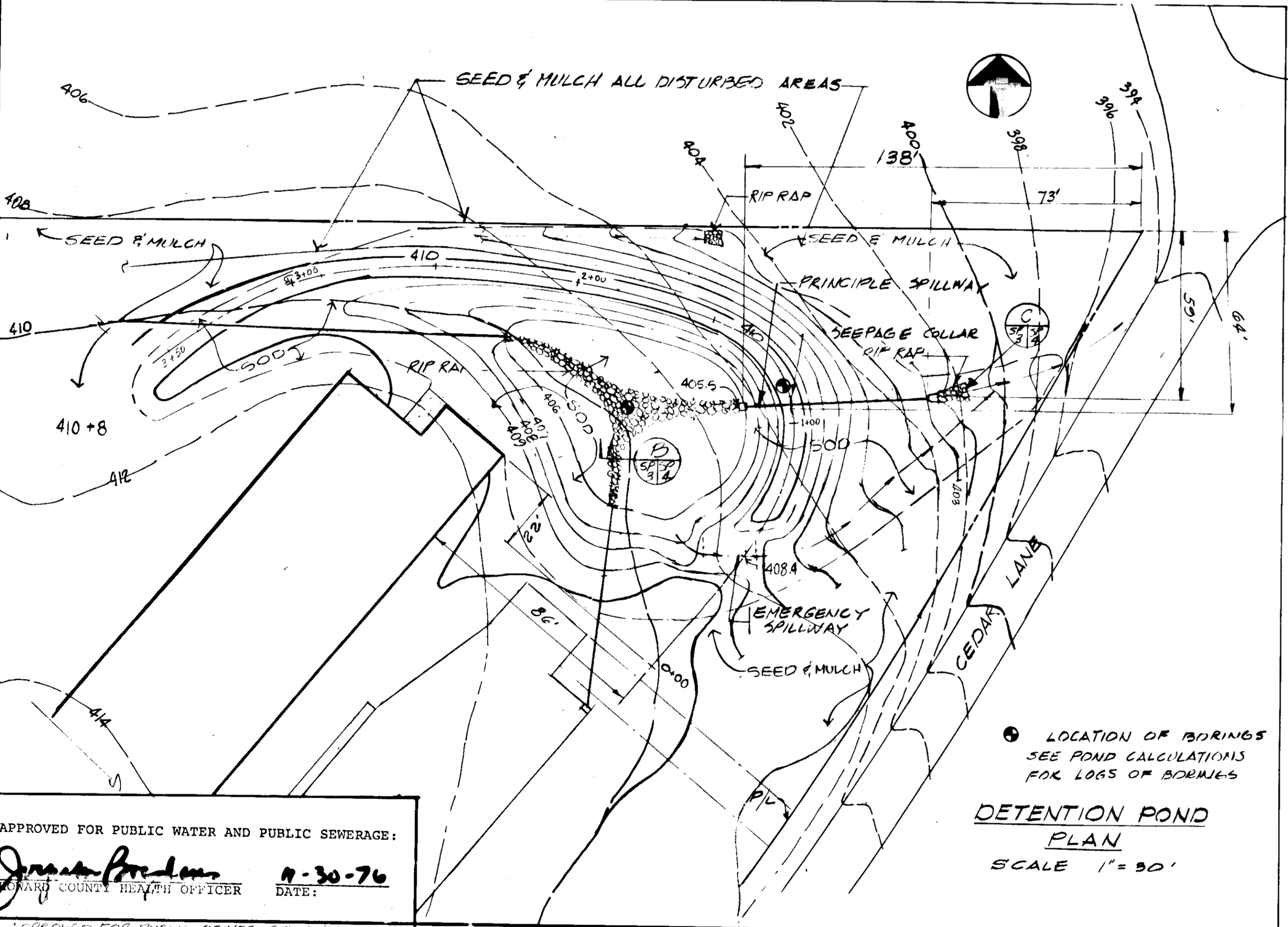
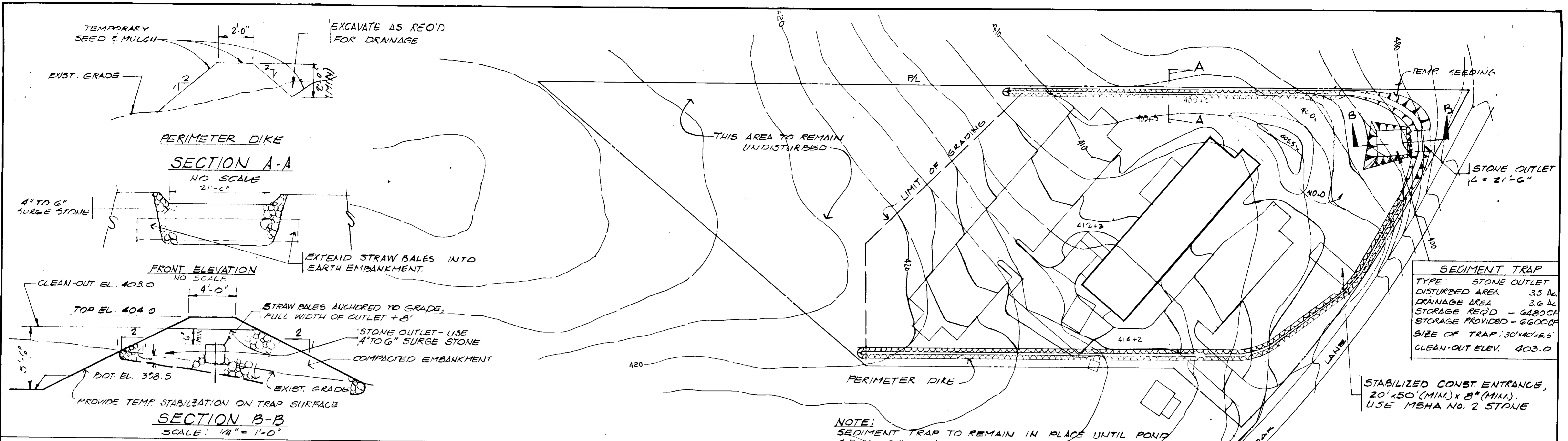
These plans for small pond construction, Soil Erosion and Sediment Control meet the requirements of the Howard Soil Conservation District.
Approved: *Robert W. Ziehm*
Howard S.C.
Date: 11/22/76

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."
SIGNATURE: *James M. McElroy*
DATE: 11/22/76

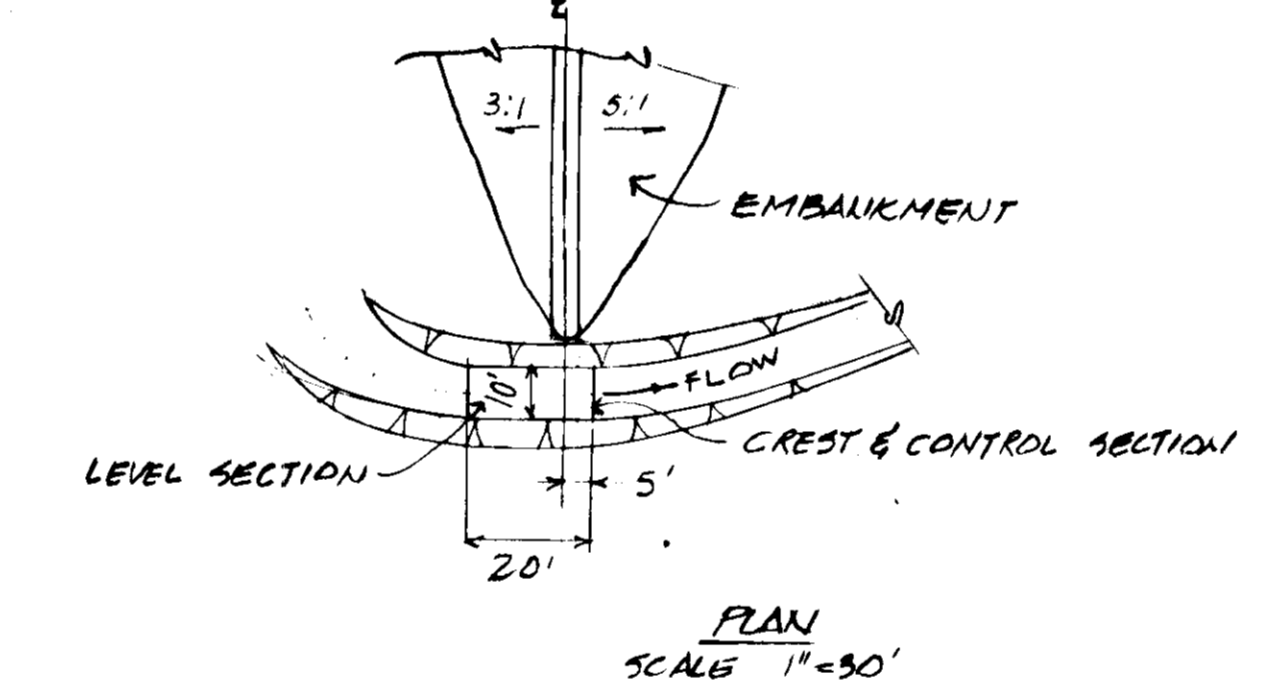
ALPHATEC, P.C.
ENGINEERS CONSULTANTS PLANNERS
4301 CONNECTICUT AVE. NW
WASHINGTON, D.C. 20008
202 363-9000
STATE OF MARYLAND PROFESSIONAL ENGINEER

LOT 3A HEPPING RESUBDIVISION, PLAT BOOK # 3562
FIFTH ELECTION DISTRICT
LIBER 454, PAGE 113 TAX MAP 35, PARCEL 107
HOWARD COUNTY, MARYLAND
LORIEN NURSING HOME
COMPRO HEALTH, INC.
(COMMERCIAL CONTRACTORS, INC.)
1205 YORK ROAD
LUTHERVILLE, MARYLAND 21093
(301) 825-8400

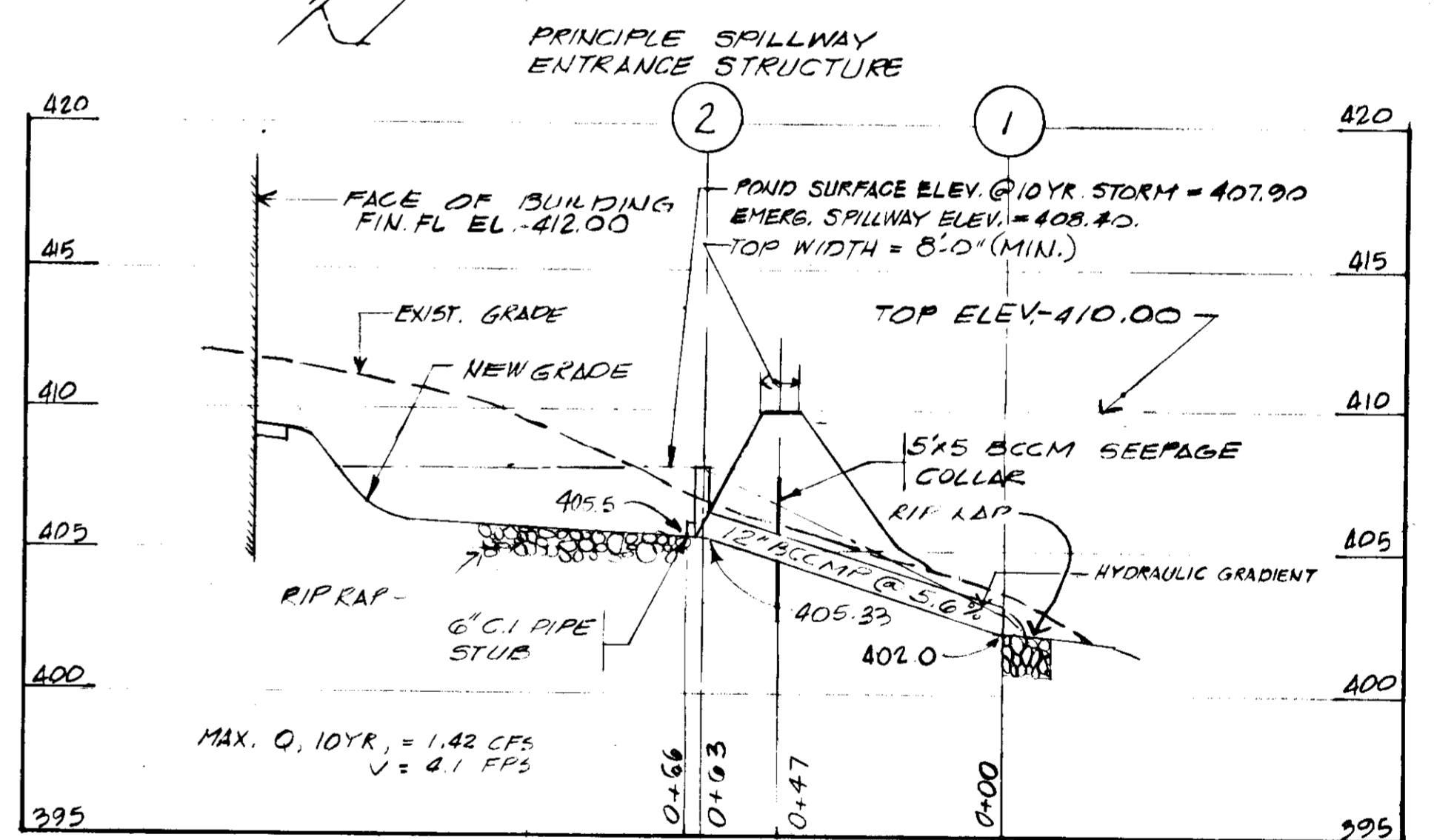
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DATE: 7-9-76
SCALE: NOTED
DRAWN: JWH
CHECKED: DFA
SHEET NO: SP-2
OF 5



EROSION CONTROL PLAN
SCALE: 1" = 50'



NOTE: SEE SHEET 4 OF 4 FOR PROFILES OF EMBANKMENT & EMERGENCY SPILLWAY.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE:
James P. Jones
HOWARD COUNTY HEALTH OFFICER
DATE: 11-30-76

APPROVED FOR PUBLIC SEWER SYSTEM DRAINAGE AND PUBLIC ROADS. CONDITIONAL APPROVAL FOR PUBLIC WATER IN ACCORDANCE WITH THE DECLARATION ON SHEET 1 OF 5
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
A. B. Beard
SIGNATURE
DIRECTOR OF PUBLIC WORKS
DATE: 11-23-76

S. M. Williams
SIGNATURE
CHIEF, BUREAU OF HIGHWAYS
DATE: 11/23/76

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING:
Thomas L. Harris
SIGNATURE
PLANNING DIRECTOR
DATE: 12-2-76

James H. Jones
SIGNATURE
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 12-2-76

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.
Eric W. Herman 11/22/76
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: *Robert J. Zichner* 11/22/76
Howard S.C.D. 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."
James M. Keenan
M.D. ERY. No. 8510
Date: 11/22/76

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.
James M. Keenan
Signature of Developer
Date: 11/22/76

ALPHATEC, P.C.
ENGINEERS CONSULTANTS PLANNERS
4301 CONNECTICUT AVE. NW
WASHINGTON, D.C. 20008
202 363-9000

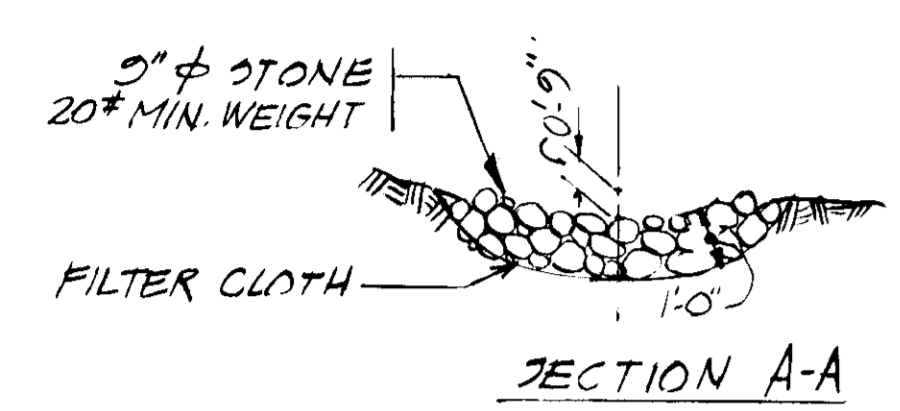
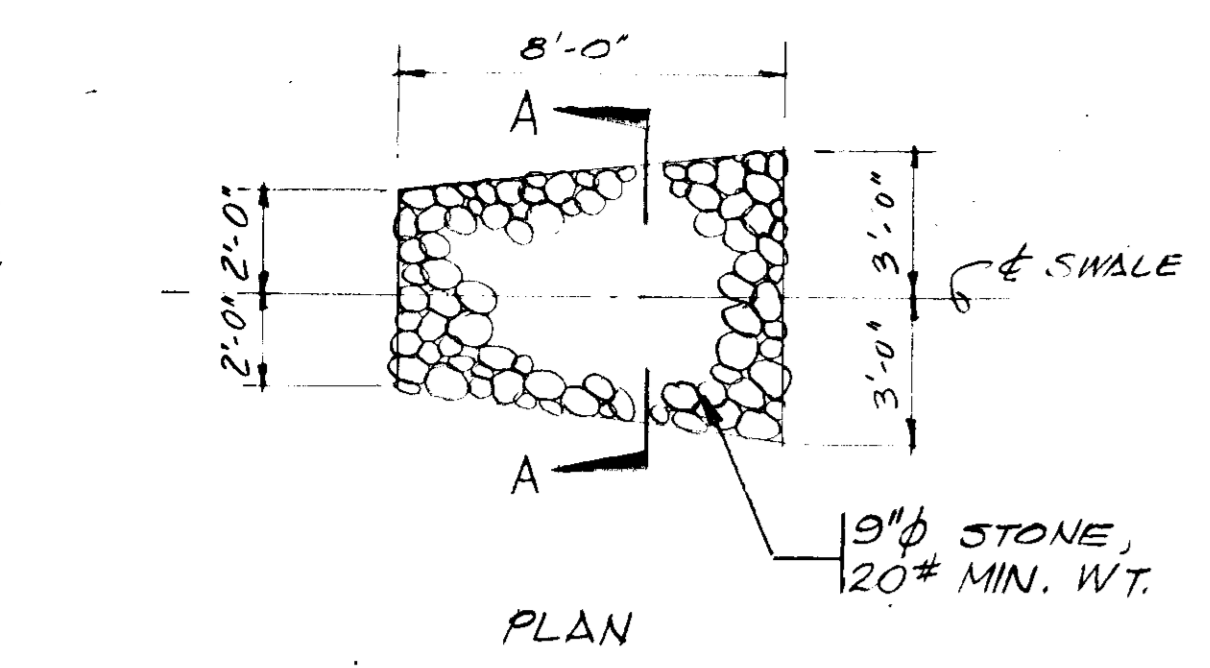
PROPERTY OWNER
NICHOLAS B. MANGIONE
7112 DARLINGTON DRIVE
BALTIMORE, MD 21234
(301) 661-4500

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 10-27-76
Thomas L. Harris

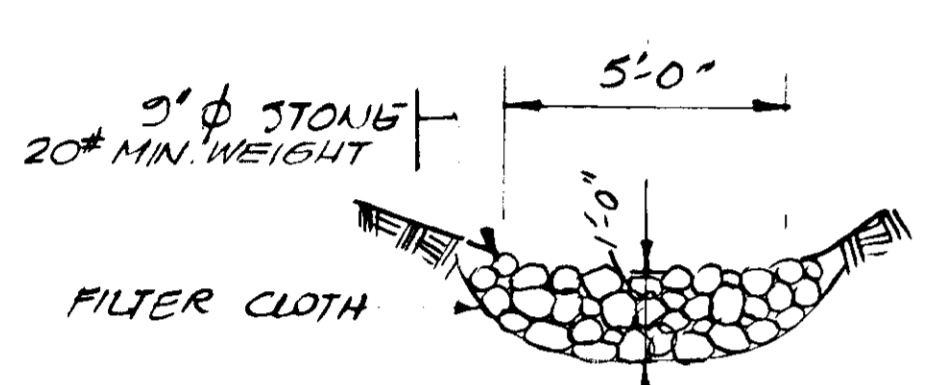
LOT 3A HEPDING RESUBDIVISION, PLAT BOOK #3562
FIFTH ELECTION DISTRICT
LIBER 454, PAGE 113 TAX MAP 35, PARCEL 107
HOWARD COUNTY, MARYLAND

LORIEN NURSING HOME
COMPRO HEALTH, INC.
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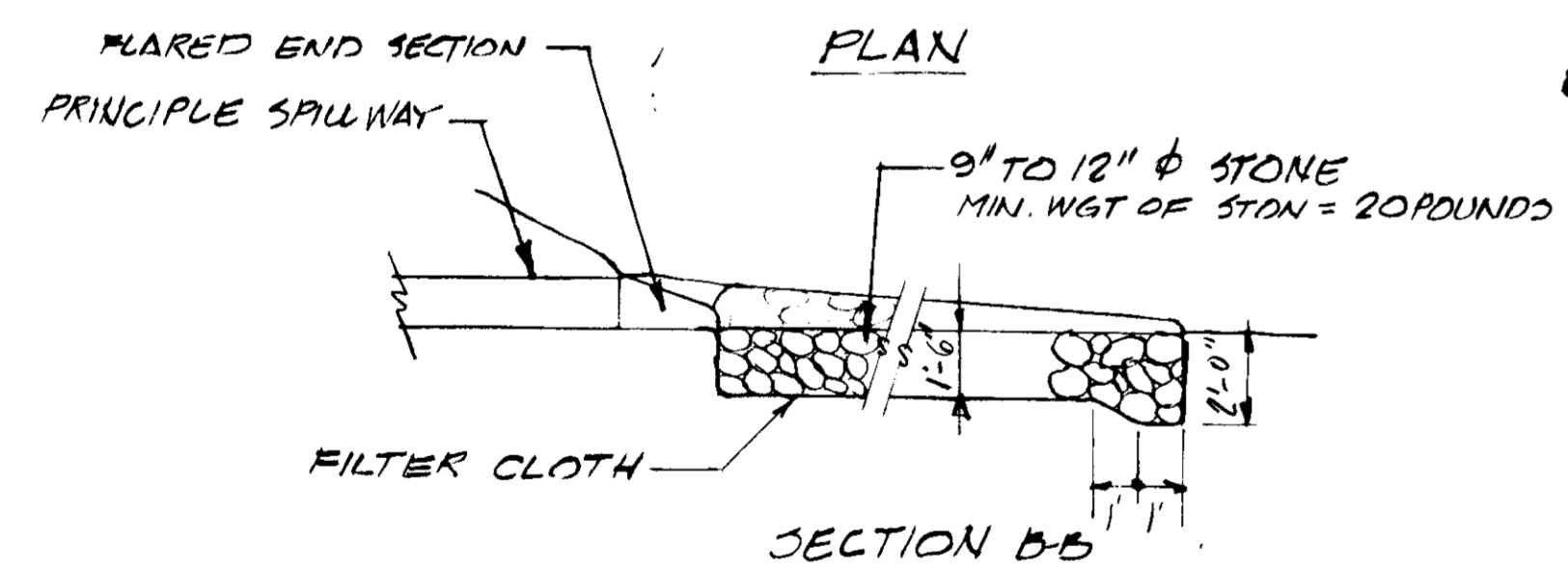
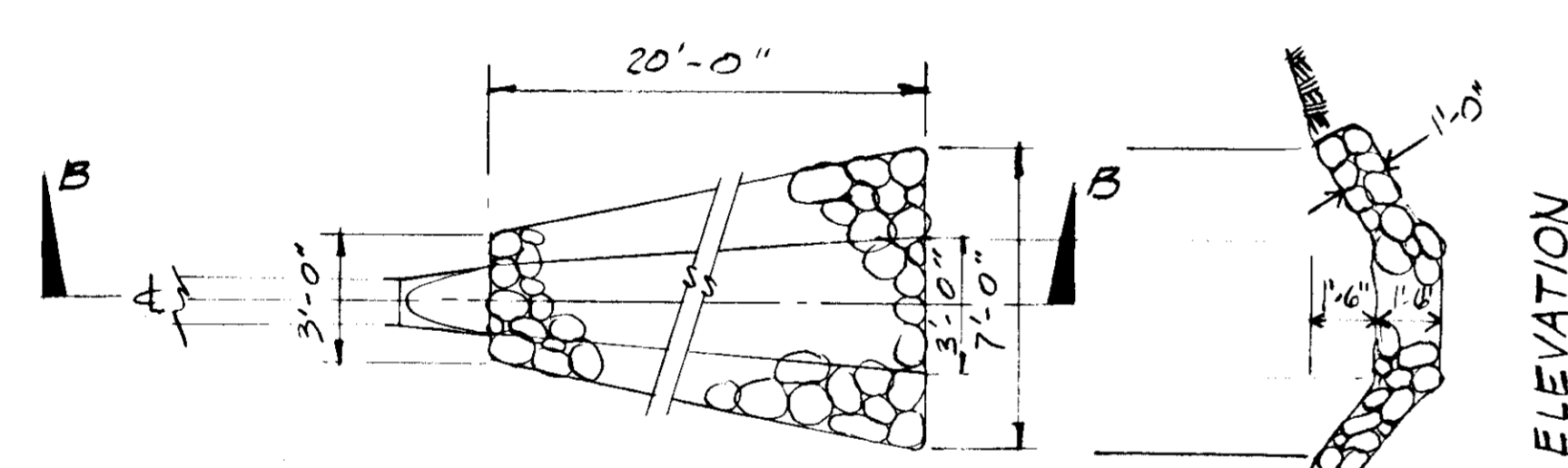
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CHECKED: DPA
SHEET NO. SP-3
3 OF 5



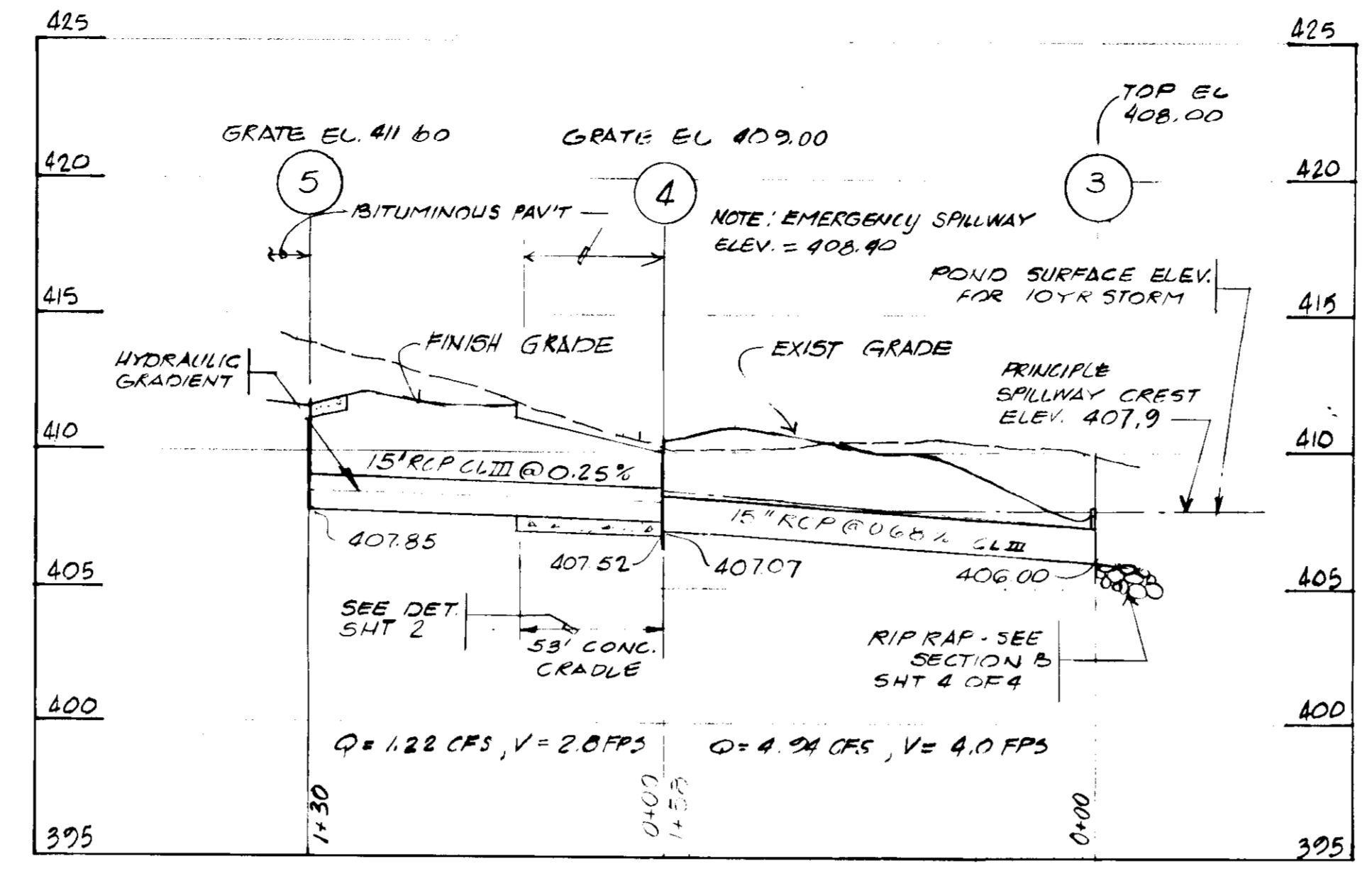
RIP RAP DETAIL A
SCALE: 1/4" = 1'-0"



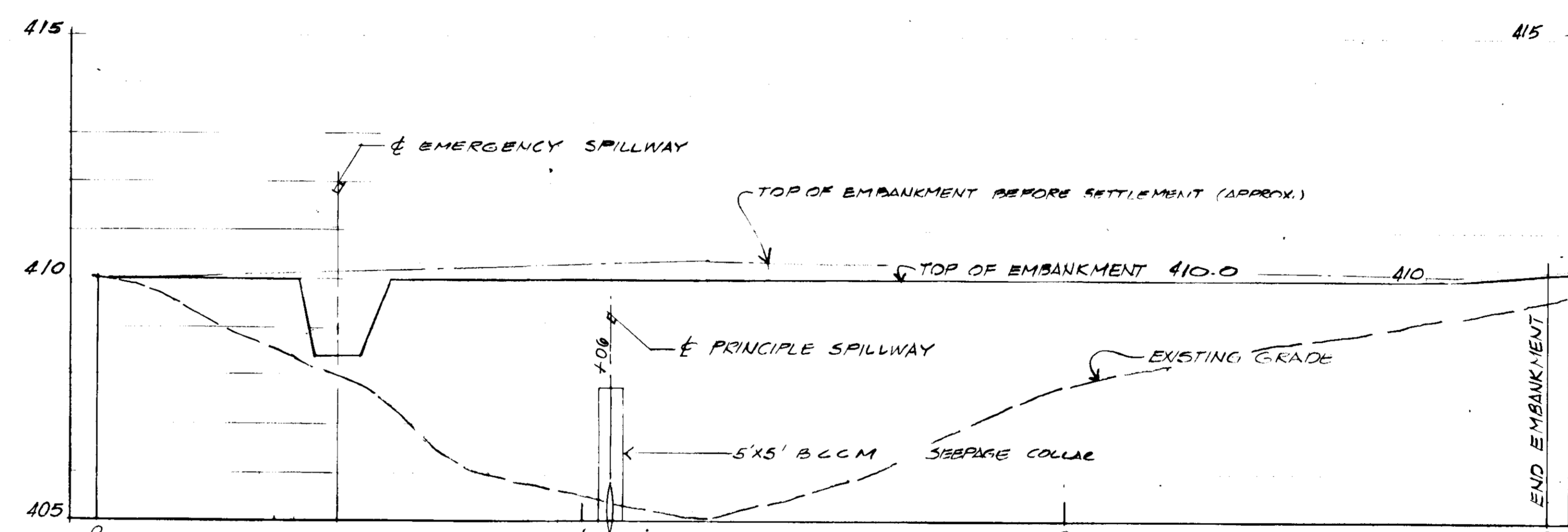
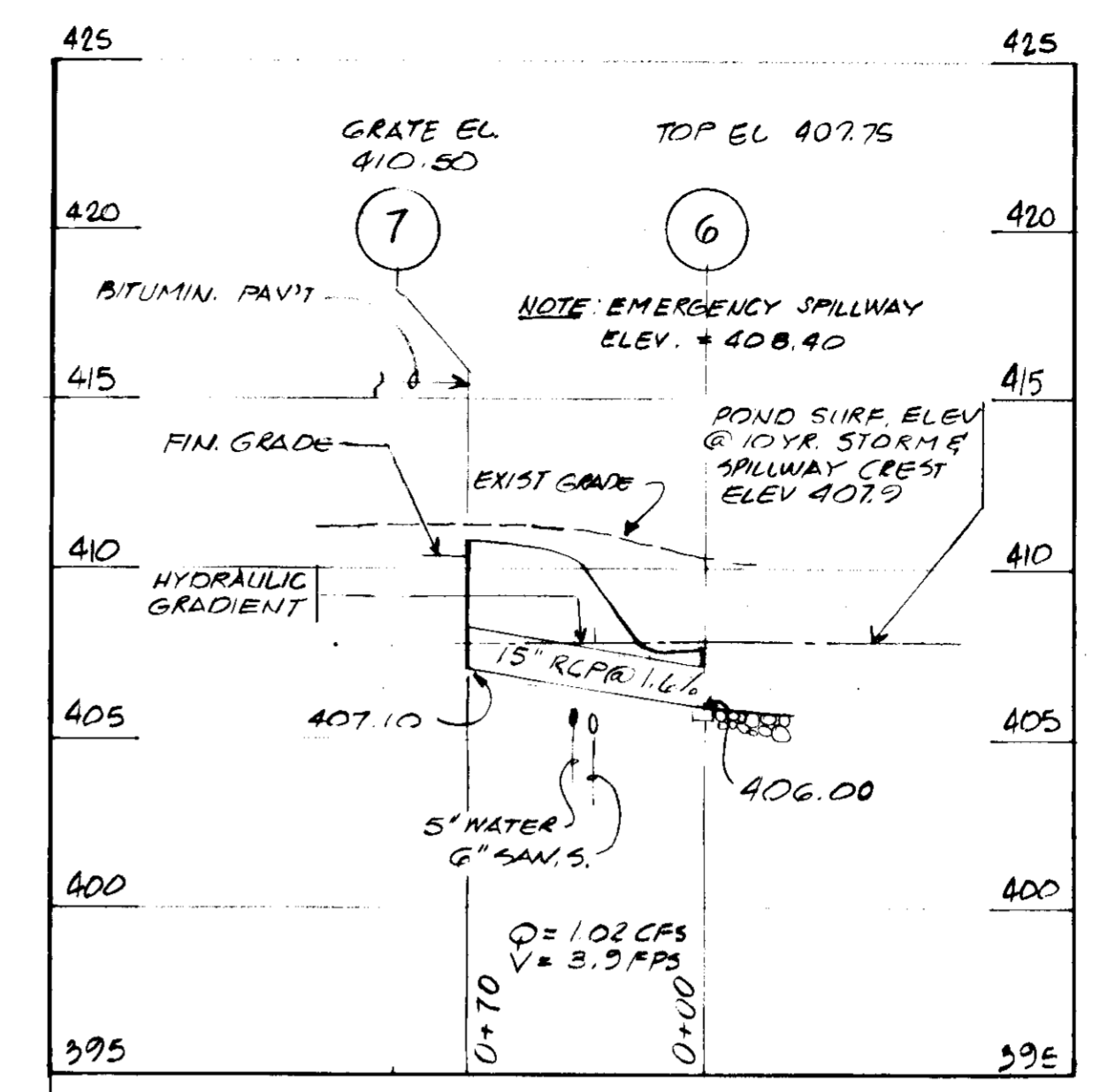
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NO SCALE



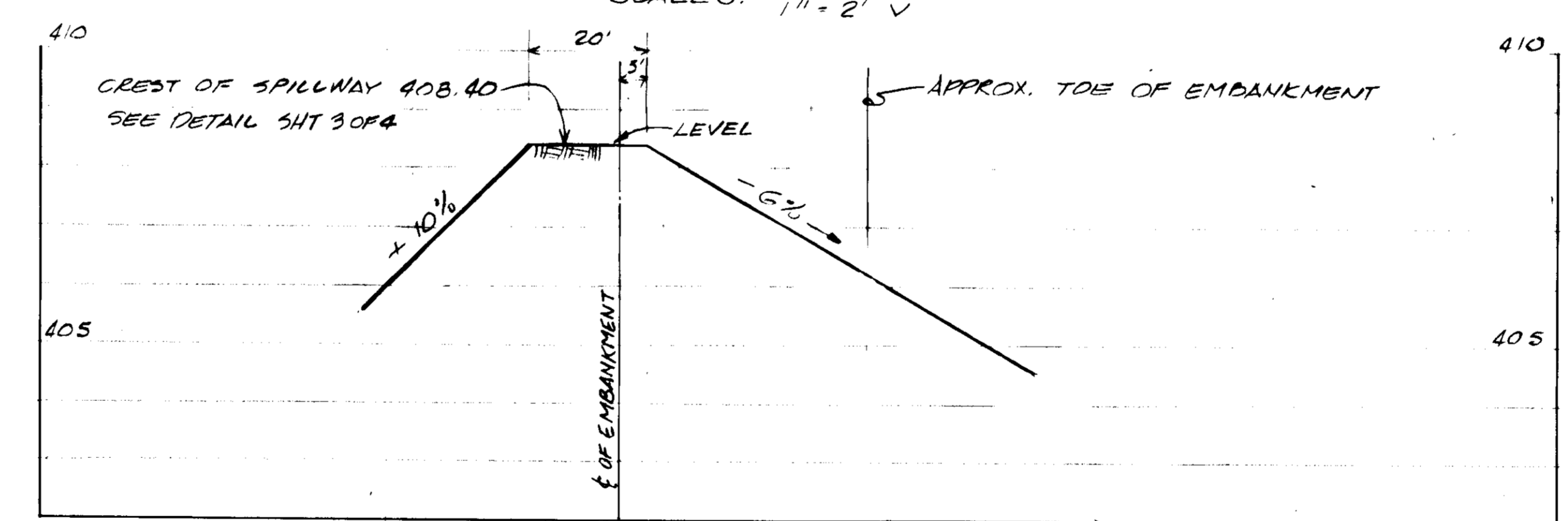
RIP RAP DETAIL C
SCALE: 1/4" = 1'-0"



STORM DRAIN PROFILES
SCALE: 1" = 50' H, 1" = 5' V



PROFILE - & OF POND EMBANKMENT
SCALE: 1" = 20' H, 1" = 2' V



PROFILE - EMERGENCY SPILLWAY
SCALE: 1" = 20' H, 1" = 2' V

I. SITE PREPARATION
AREAS UNDER THE EMBANKMENT AND PRINCIPLE SPILLWAY SHALL BE CLEARED, GRUBBED AND THE TOPSOIL STRIPPED TO REMOVE ALL TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. THE AREA SHALL BE CLEARED OF ALL BRUSH AND TREES. COMPACT TOP 12" OF SUBGRADE TO 95 PERCENT MAXIMUM DENSITY.

II. EARTH FILL
MATERIAL
THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE FROM ROOTS, STUMPS, WOOD, RUBBISH, OVER-SIZE STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION WHICH PROVIDES FOR ANTICIPATED SETTLEMENT TO THE DESIGN ELEVATION. THE FILL HEIGHT ALL ALONG THE LENGTH OF THE EMBANKMENT SHALL BE INCREASED AT LEAST 10 PERCENT ABOVE THE DESIGN ELEVATION.

PLACEMENT
AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 8-INCH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST POROUS BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT.

COMPACTION
COMPACT EACH LIFT OF THE EMBANKMENT TO 95 PER CENT OF MAXIMUM LABORATORY DENSITY AS DETERMINED BY AASHTO METHOD 1-59

III. STRUCTURAL BACKFILL
BACKFILL MATERIAL SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER 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 THE CONTRACTOR DRIVE EQUIPMENT OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF TWENTY-FOUR INCHES OR GREATER OVER THE STRUCTURE OR PIPE.

IV. PIPE CONDUITS
A. CORRUGATED METAL PIPE
1. MATERIALS - (STEEL PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE A WITH WATERTIGHT COUPLING BANDS. ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND. HELICALLY CORRUGATED PIPE, IN ADDITION TO THE REQUIREMENTS ABOVE, SHALL HAVE EITHER CONTINUOUSLY WELDED SEAMS OR HAVE LOCK SEAMS WHICH ARE CAULKED WITH A NEOPRENE BEAD.
2. CONNECTIONS - ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. WATERTIGHT COUPLING BANDS SHALL BE USED AT ALL JOINTS. ANTI-SEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATERTIGHT.
3. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.
4. LAYING PIPE - THE PIPE SHALL BE PLACED WITH INSIDE CIRCUMFERENTIAL LAPS POINTING DOWNSTREAM AND WITH THE LONGITUDINAL LAPS AT THE SIDES.
5. BACKFILLING SHALL CONFORM TO STRUCTURAL BACKFILL AS SHOWN ABOVE.
6. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

V. STABILIZATION
ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY AND BORROW AREAS SHALL BE STABILIZED BY SEEDING AND APPLYING STRAW MULCH IN ACCORDANCE WITH THE EROSION CONTROL SPECIFICATIONS IMMEDIATELY AFTER FINISH GRADING.

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 10-27-76
Thomas J. Harris, (301) 661-4500

PROPERTY OWNER
NICHOLAS B. MANGIONE
712 DARLINGTON DRIVE
BALTIMORE, MD. 21234
(301) 661-4500

COHEN-KARYDAS AND ASSOCIATES, INC.
ARCHITECTS AND PLANNERS
WASHINGTON, D. C.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE:
HOWARD COUNTY HEALTH OFFICER
DATE: 10-27-76

APPROVED FOR PUBLIC SEWER, STORM DRAINAGE AND PUBLIC ROADS. CONDITIONAL APPROVAL FOR PUBLIC WATER IN ACCORDANCE WITH DECLARATION ON SHEET 1 OF 5
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 11-23-76
DATE: 11/23/76

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING:
DATE: 12-2-76
DATE: 12-2-76

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.
U.S. Soil Conservation Service Date: 11/22/76

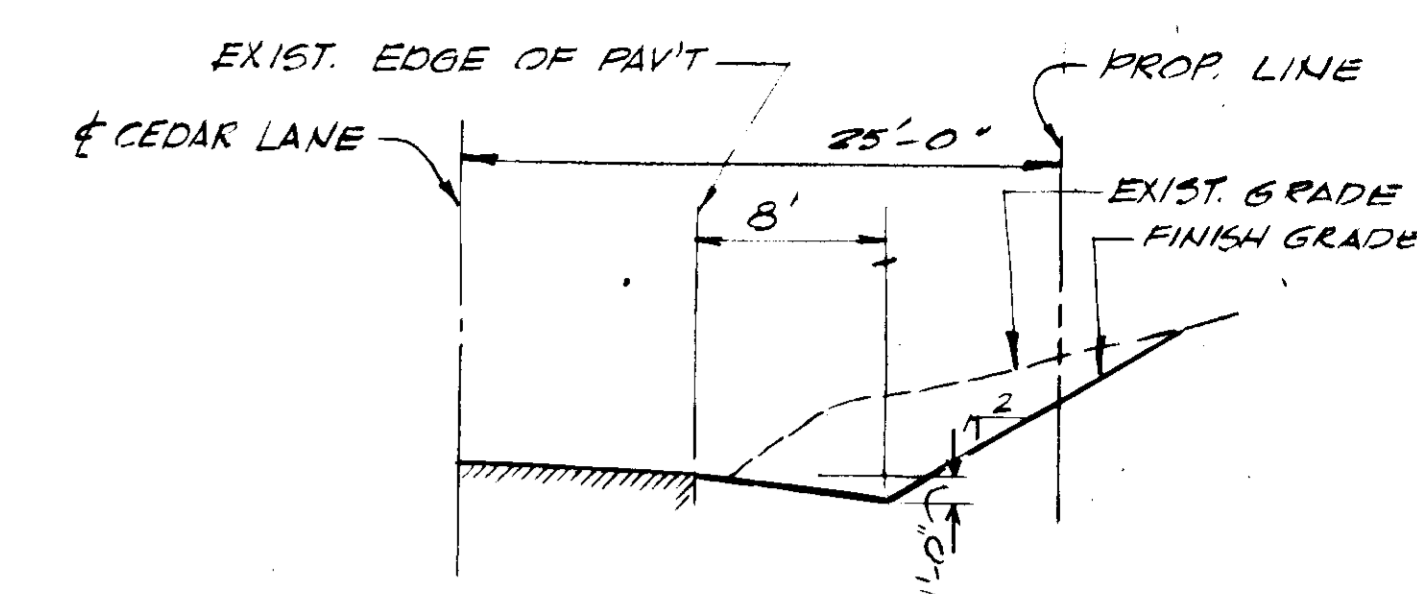
CERTIFICATION BY THE ENGINEER:
"I certify that this plan for Ponds, Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
DATE: 11/22/76

ALPHATEC, P.C.
ENGINEERS CONSULTANTS PLANNERS
4301 CONNECTICUT AVE. NW
WASHINGTON, D.C. 20008
202 363-9000

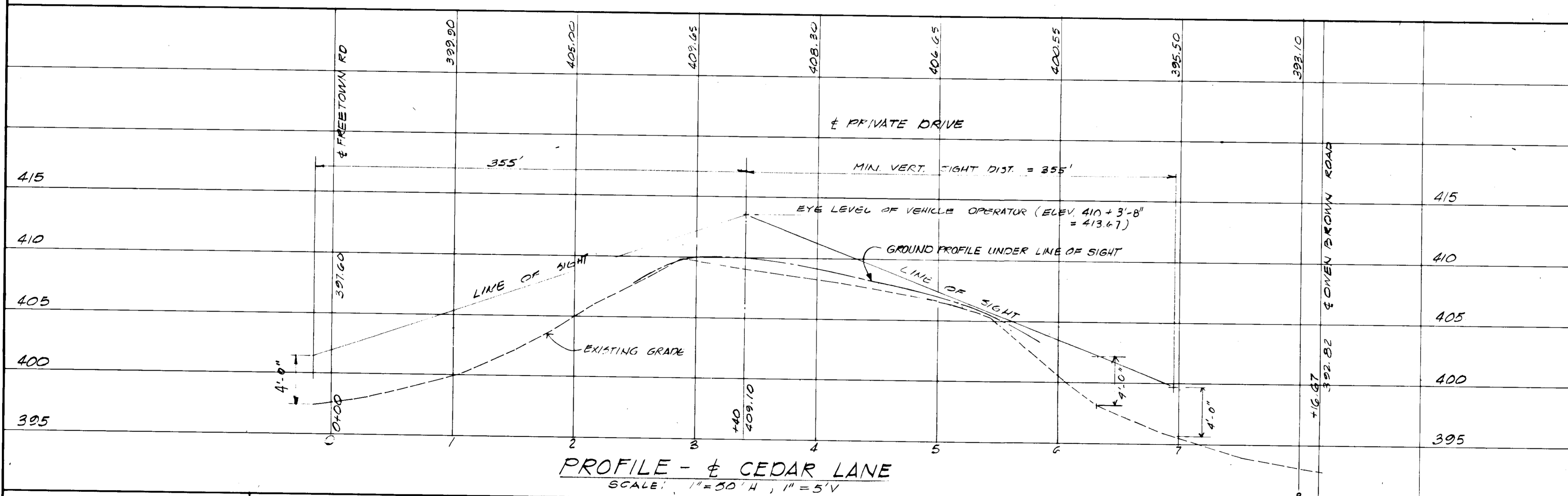
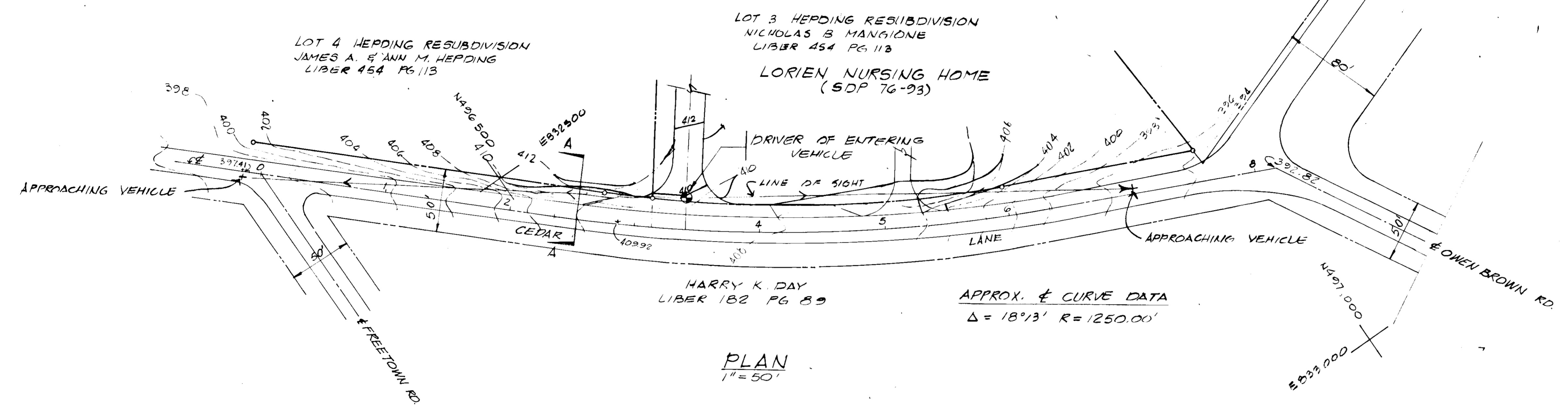
LOT 34 HEPDING RESUBDIVISION, PLAT BOOK #3562
FIFTH ELECTION DISTRICT
LIBER 454, PAGE 113 TAX MAP 35, PARCEL 107
HOWARD COUNTY, MARYLAND
LORIEN NURSING HOME
COMPRO HEALTH, INC.
(COMMERCIAL CONTRACTORS, INC.)
1205 YORK ROAD
LUTHERVILLE, MARYLAND 21093
(301) 825-8400

JOB NO. 72-84
DATE 7-2-76
SCALE NOTED
DRAWN JWH
CHECKED DFA
SHEET NO. SP.4
4 OF 5

X



NOTES:
 1. POSITIVE DRAINAGE SHALL BE MAINTAINED
 2. RELOCATION OF EXISTING UTILITIES, IF ANY, WILL BE THE RESPONSIBILITY OF THE DEVELOPER.
SPECIAL GRADING - CEDAR LANE R/W
SECTION "A-A"
 SCALE 1/8" = 1'-0"



PROPERTY OWNER
 NICHOLAS B. MANGIONE
 7112 DARLINGTON DRIVE
 BALTIMORE, MD. 21234
 (301) 661-4500

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY

DATE: 10-27-76
 James H. Harris

COHEN-KARYDAS AND ASSOCIATES, INC.
 ARCHITECTS AND PLANNERS
 WASHINGTON, D. C.

These plans for small pond construction Soil Erosion and Sediment Control meet the requirements of the Howard Soil Conservation District.

Approved: *Robert J. Zehn*
 Howard S.C.D.
 Date: 11/23/76

Plan Number _____

APPROVED FOR PUBLIC SEWER, STORM DRAINAGE AND PUBLIC ROADS.
 CONDITIONAL APPROVAL FOR PUBLIC WATER IN ACCORDANCE WITH THE DECLARATION ON SHEET 1 OF 5.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature: *W. J. Reagan*
 DATE: 11-23-76
 DIRECTOR OF PUBLIC WORKS

Signature: *E. M. McCreand*
 DATE: 11/23/76
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING:

Signature: *James H. Harris*
 DATE: 12-2-76
 PLANNING DIRECTOR

Signature: *James H. Harris*
 DATE: 12-2-76
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE:

Signature: *James H. Harris*
 DATE: 11-30-76
 HOWARD COUNTY TRAFFIC OFFICER

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: *Eric V. Perman*
 DATE: 11/23/76
 U.S. Soil Conservation Service

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."

Signature: *James H. Harris*
 DATE: 11/23/76
 M.C. CERT. No. 8510

ALPHATEC, P.C.
 ENGINEERS CONSULTANTS PLANNERS
 4301 CONNECTICUT AVE. NW
 WASHINGTON, D.C. 20008
 202 363-9000

Signature: *James H. Harris*
 DATE: 11/23/76

LOT 3 HEPDING RESUBDIVISION, PLAT BOOK #3562
 FIFTH ELECTION DISTRICT
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 EKH

SHEET NO
 SP-5
 5 OF 5