

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	PLAN AND PROFILE - ST. JOHN'S LANE
3	PLAN AND PROFILE - ANNEKA COURT
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5	GRADING, SEDIMENT CONTROL, PLAN, DRAINAGE AREA MAP, AND REVISIONS
6	SEDIMENT CONTROL NOTES AND DETAILS

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

[Signature] Date **6/23/89**
U.S. Soil Conservation Service

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

[Signature] Date **6/23/89**
Howard Soil Conservation District

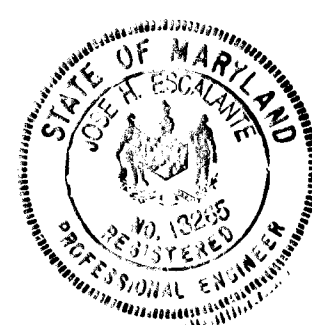
I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

[Signature] Date **6/16/89**

DEVELOPER'S CERTIFICATE

I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

[Signature] Date **6-16-89**



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

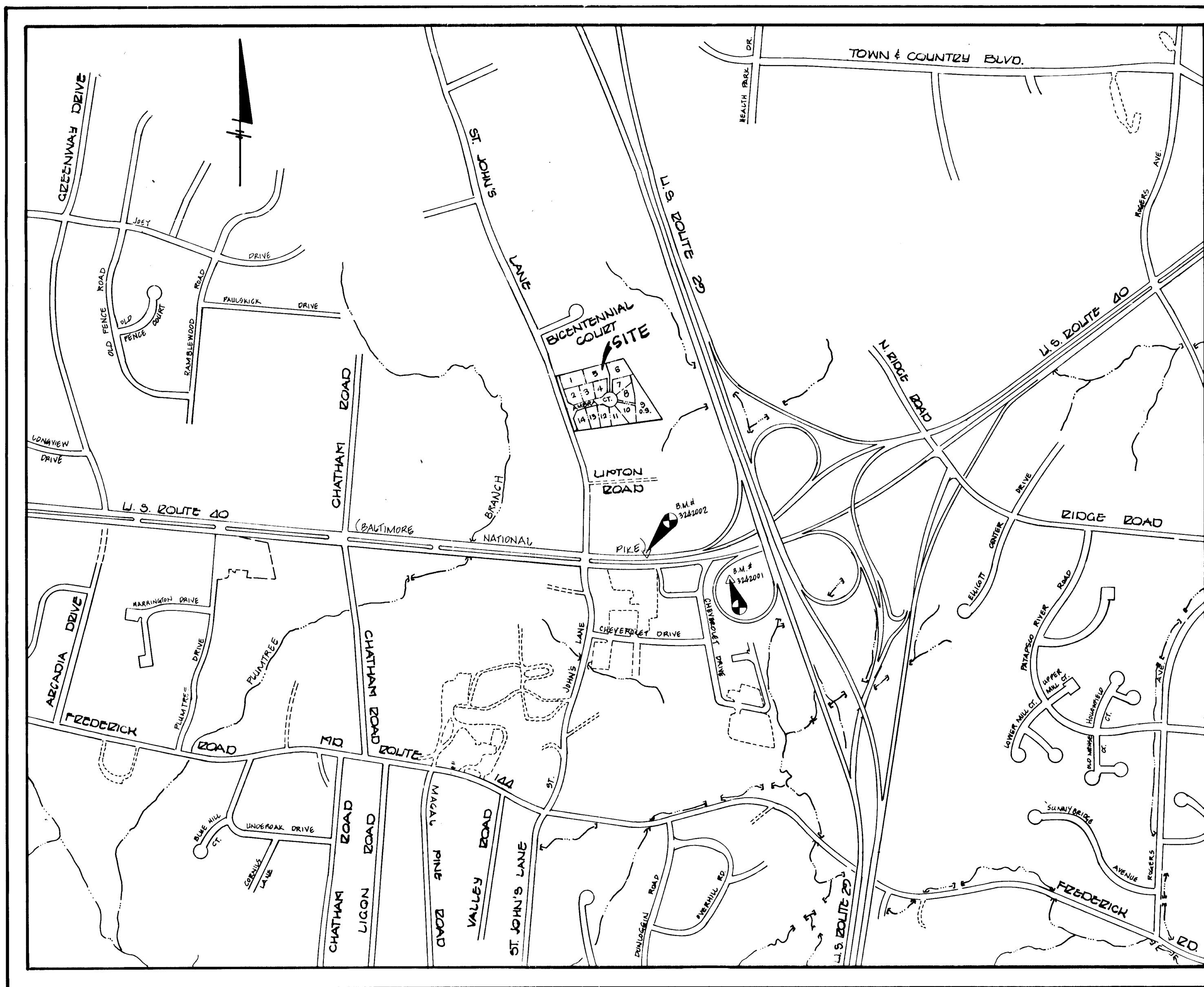
CHIEF, LAND DEVELOPMENT DIVISION
[Signature] Date **7/19/89**
CHIEF, BUREAU OF HIGHWAY

[Signature] Date **7-19-89**
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] Date **7/27/89**
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

REVISIONS			
DATE	BY	DESCRIPTION	
12/16/88	JAN/88B	PER HOWARD CO. COMMENTS DATED 10/28/88	
3/8/89	JAN/88B	PER HOWARD CO. COMMENTS DATED 2/21/89	
5/8/89	JAN/88B	PER HOWARD CO. COMMENTS DATED 2/1/89	

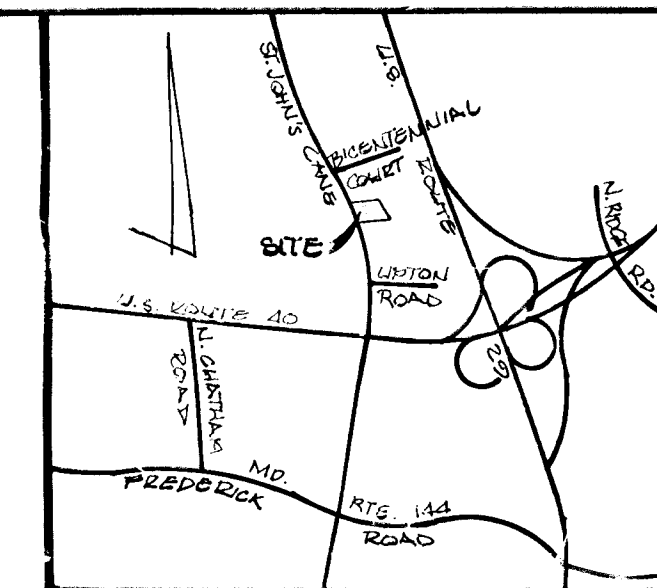
DESIGNED	R.P. BURTON	7/21/88	date
DRAWN	J.A. URSICH	7/21/88	date
CHECKED	R.P. BURTON	7/21/88	date
APPROVED	T.L. WILEY	7/21/88	date



LOCATION MAP
SCALE: 1" = 600'

BENCHMARKS

- B.M. # 3242001 CONC. MON. ABOVE SURFACE INSIDE EASTBOUND EL. 576.750 RAMP OF ROUTE 20 INTERCHANGE TO ROUTE 40 EAST.
- B.M. # 3242002 CONC. MON. C SURFACE 1' E. N. OF EDGE OF MAG. SHOULDER OF ROUTE 40 WEST 150' E. OF ST. JOHN'S LANE. EL. 400.780



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS. IN ADVANCE OF ANY CONSTRUCTION.
- STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWING, TELEPHONE 792-7272.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. TEST PIT DENOTED [Symbol].
- ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984 EDITION.
- STREET TREES TO BE PROVIDED AS REQUIRED BY SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

COVE WOOD SECTION ONE

ROAD CONSTRUCTION DRAWINGS

2ND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

Dewberry & Davis

ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
3300 N. RIDGE ROAD, SUITE 100
ELLCOTT CITY, MD. 21043
(301) 461-7478

OWNER & DEVELOPER

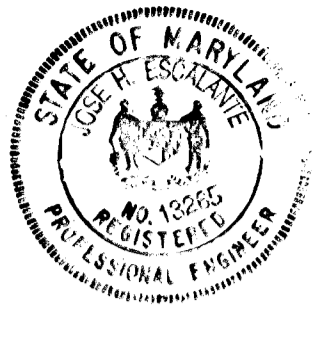
CHRIS STUBBS, INC.
P.O. BOX 2036
COLUMBIA, MD 21045
(301) 596-7403

TITLE SHEET
COVE WOOD

SECTION ONE
LOT 1 THRU LOT 14
TAX MAP 24 PARCELS 42 & 43
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

1459

ENGINEER'S CERTIFICATE
 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 requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.



Joseph A. Galt 6/16/89
 DATE

LAND DEVELOPER'S CERTIFICATE
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Christopher Stubbs 6/16/89
 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.

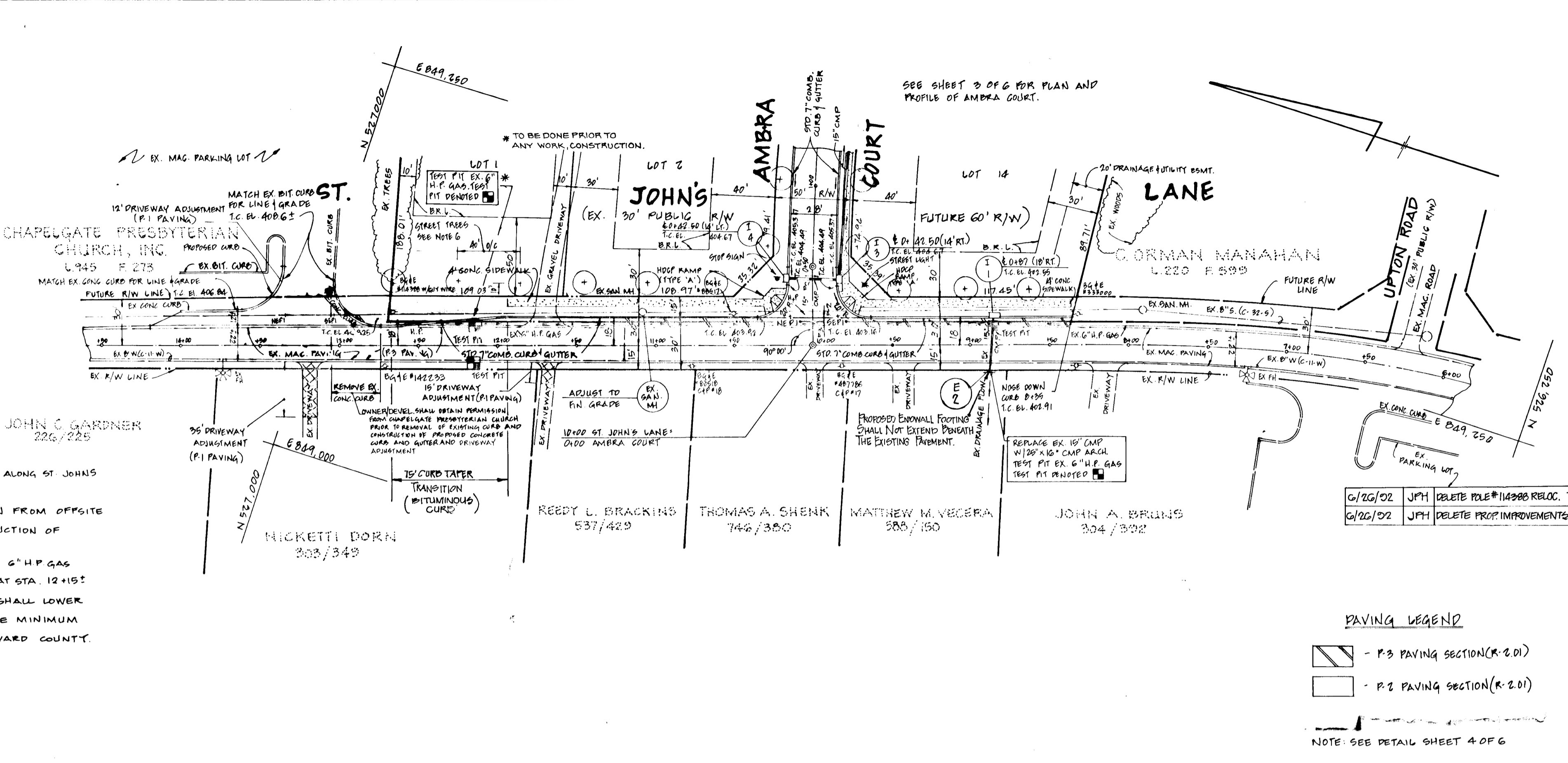
James M. Helm 6/28/89
 DATE

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

Robert J. Ziehm 6/29/89
 DATE

NOTES (CONT.)

12. CONTRACTOR SHALL MAINTAIN TRAFFIC ALONG ST. JOHN'S LANE AT ALL TIMES.
13. CONTRACTOR SHALL OBTAIN PERMISSION FROM OFFSITE PROPERTY OWNERS PRIOR TO CONSTRUCTION OF DRIVEWAY ADJUSTMENTS.
14. CONTRACTOR SHALL TEST MT EXISTING 6" H.P. GAS LINE AND EXISTING 8" WATER LINE AT STA. 12+15 TO DETERMINE DEPTH. CONTRACTOR SHALL LOWER ALL EXISTING UTILITIES TO PROVIDE MINIMUM COVER (3.5') AS DIRECTED BY HOWARD COUNTY.



PAVING LEGEND
 [Symbol] - P-3 PAVING SECTION (R-2.01)
 [Symbol] - P-2 PAVING SECTION (R-2.01)
 NOTE: SEE DETAIL SHEET 4 OF 6

- NOTES**
1. FOR TYPICAL WIDENING SECTION OF ST. JOHN'S LANE SEE SHEET 3 OF 6.
 2. FOR TYPICAL PAVING SECTIONS SEE SHEET 4 OF 6.
 3. FOR STORM DRAIN PROFILES SEE SHEET 4 OF 6.
 4. FOR PLAN AND PROFILE OF AMBRA COURT SEE SHEET 3 OF 6.
 5. THE PROPOSED STREET LIGHT AT THE INTERSECTION OF ST. JOHN'S LANE AND AMBRA COURT SHALL BE 175 WATT MERCURY VAPOR LAMP MOUNTED ON A 14' HIGH FIBERGLASS BRONZE POLE.
 6. SEE SHEET 3 OF 6 FOR LANDSCAPE LEGEND.
 7. EXISTING SANITARY SEWER LOCATED AT STA. 11+10 SHALL BE ADJUSTED TO FINISHED GRADE.
 8. CONTRACTOR TO LOCATE EXISTING UTILITIES TO HIS OWN SATISFACTION PRIOR TO STARTING ANY WORK SHOWN ON THIS PLAN.
 9. CONTRACTOR TO TEST MT EXISTING 6" H.P. GAS LINE PRIOR TO REPLACING 15" CMP INTO INLET 1-1. TEST PIT DELETED.
 10. UTILITY POLES B.G.# 114388, #88517, #12233, #999000 SHALL BE RELOCATED OR ADJUSTED TO FINISHED GRADE BY THE CONTRACTOR AS REQUIRED.
 11. DEVELOPER SHALL OBTAIN PERMISSION FROM CHATEAUGE PRESBYTERIAN CHURCH PRIOR TO REMOVAL OF EX. CURB AND CONSTRUCTION OF PROPOSED CONCRETE CURB AND DRIVEWAY ADJUSTMENT LOCATED OFFSITE.

REVISIONS

DATE	BY	DESCRIPTION
12/15/88	JAU/BDB	PER HOWARD CO. COMMENTS DATED 10/28/88
3/10/89	JAU/BDB	PER HOWARD CO. COMMENTS DATED 2/21/89
5/8/89	JAU/BDB	PER HOWARD CO. COMMENTS DATED 2/7/89
6/15/89	KDH	REMOVED EX. CURB TO ST. JOHN'S LANE
6/26/89	JPH	DELETE POLE #114388 RELOC. TO CURB TRANS.
6/26/89	JPH	DELETE PROP. IMPROVEMENTS TO ST. JOHN'S LN.

GOVE WOOD
 SECTION ONE
 LOT 1 THRU LOT 14
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
PLAN AND PROFILE
ST. JOHN'S LANE

OWNER / DEVELOPER
 CHRIS STUBBS, INC.
 P.O. BOX 2036
 COLUMBIA, MD 21045
 301-596-7403

SCALE: AS SHOWN DATE: JULY 27, 1988 SHEET 2 OF 6
 DESIGNED BY: B.D.B. DRAWN BY: J.A.U. CHECKED BY: B.D.B.

DEWBERRY & DAVIS
 ENGINEERS ARCHITECTS PLANNERS SURVEYORS
 2500 NORTH HEDGE ROAD
 FULLETON CITY, MARYLAND 21043
 (301) 461-4478

PLAN
 1. REVISIONS
 2. DATE
 3. DRAWN BY
 4. CHECKED BY
 5. DATE

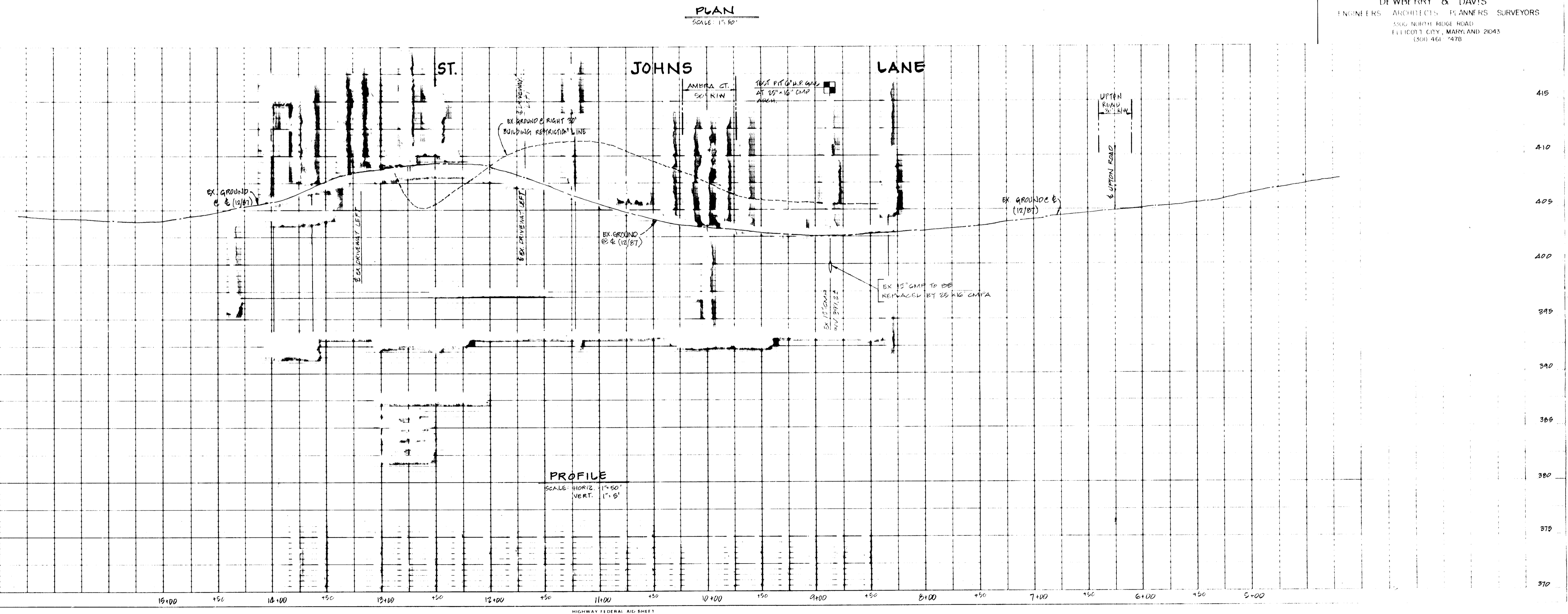
Mark S. Z. Light 7/27/89
 COMMUNITY PLANNING
 LAND DEVELOPMENT

Paul W. Ziehm 7/6/89
 DATE

Granville W. Walden 7/14/89
 DATE

James Z. Ray 7-11-89
 DATE

PROFILE
 1. REVISIONS
 2. DATE
 3. DRAWN BY
 4. CHECKED BY
 5. DATE



HIGHWAY FEDERAL AID SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
 PRINTED IN U.S.A.

1459

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Joseph J. Subbs 6/16/89
 DATE

DEVELOPER'S CERTIFICATE
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Christopher Subbs 6-16-89
 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.

James M. J. Jahn 6/28/89
 DATE

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

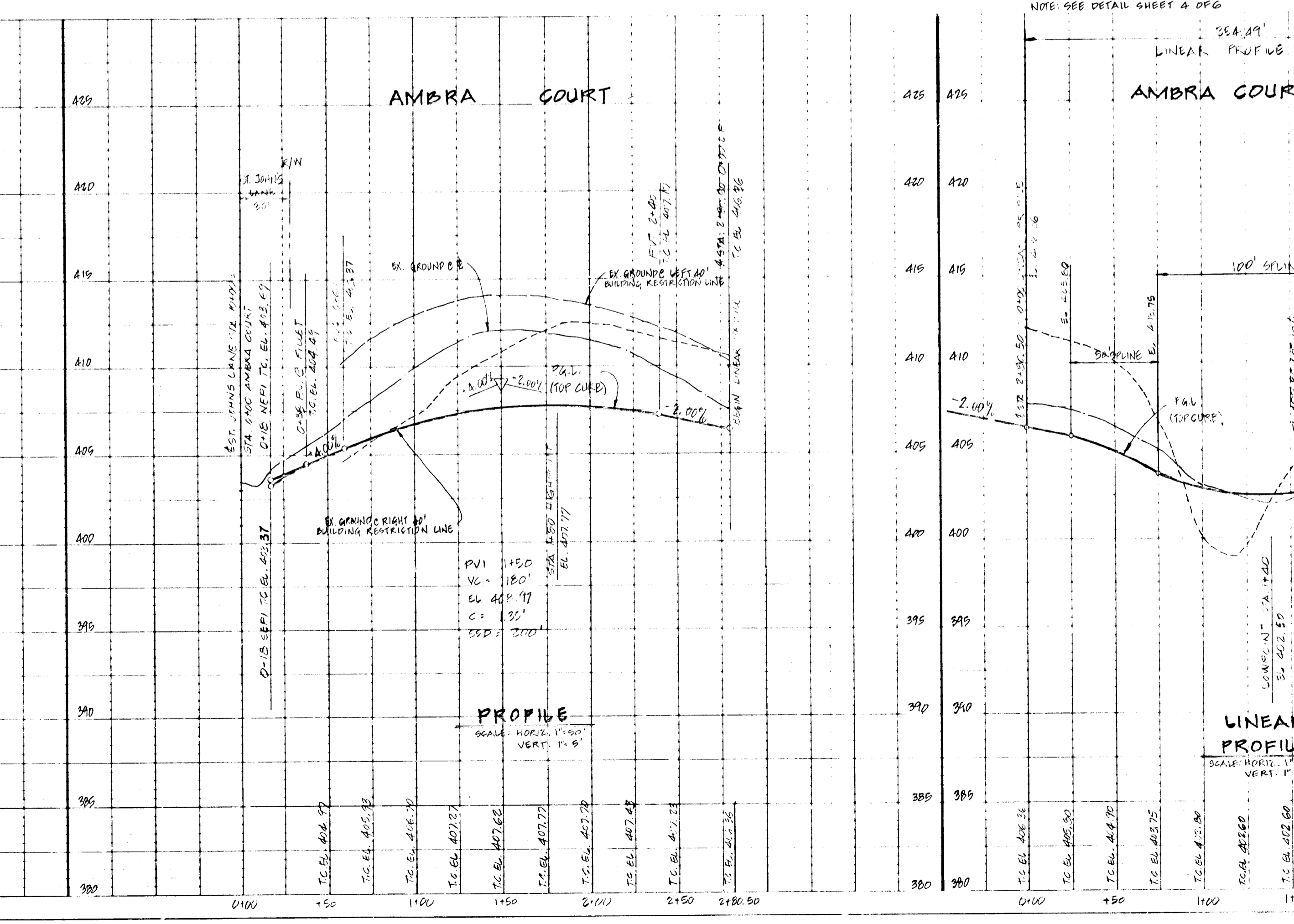
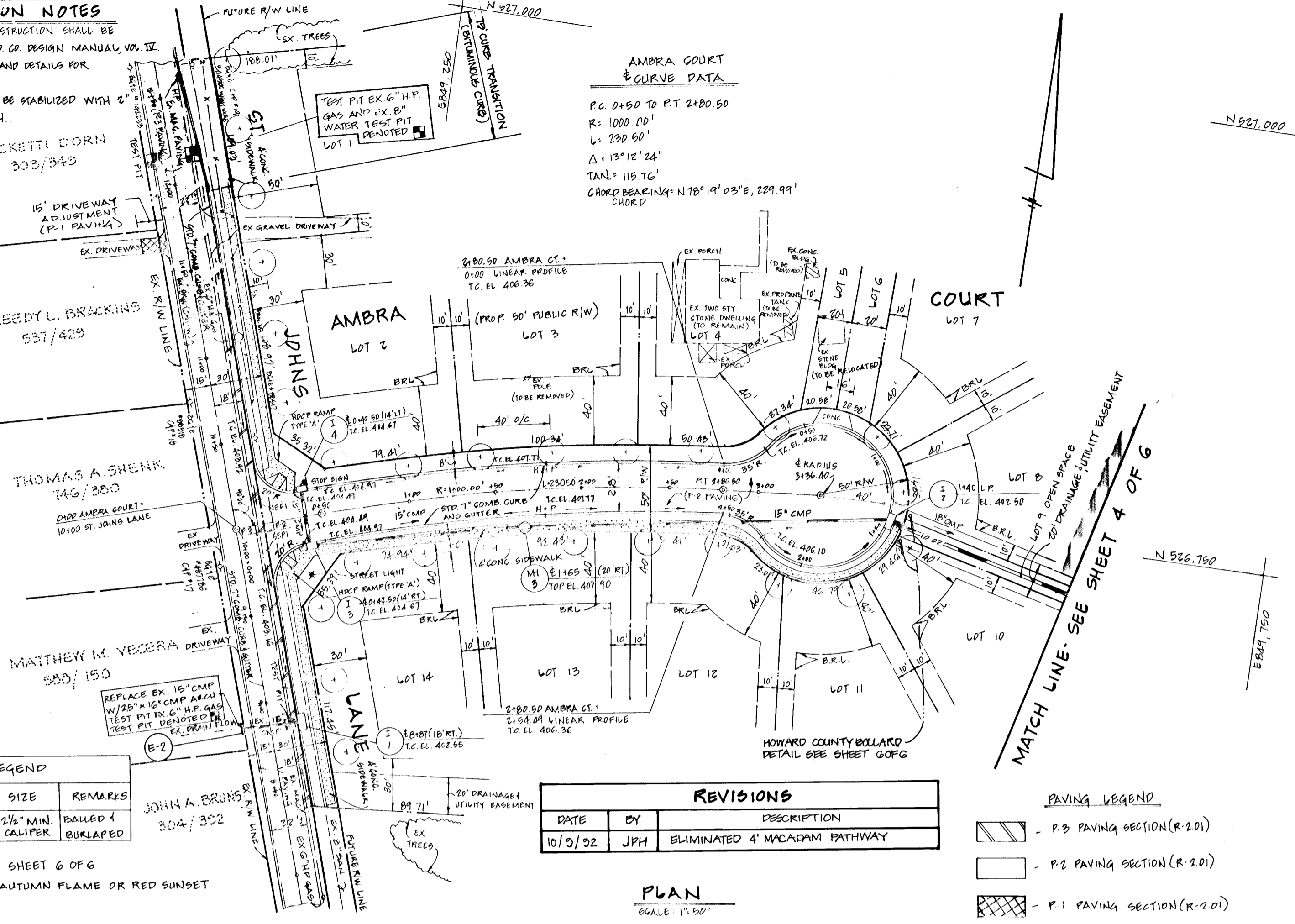
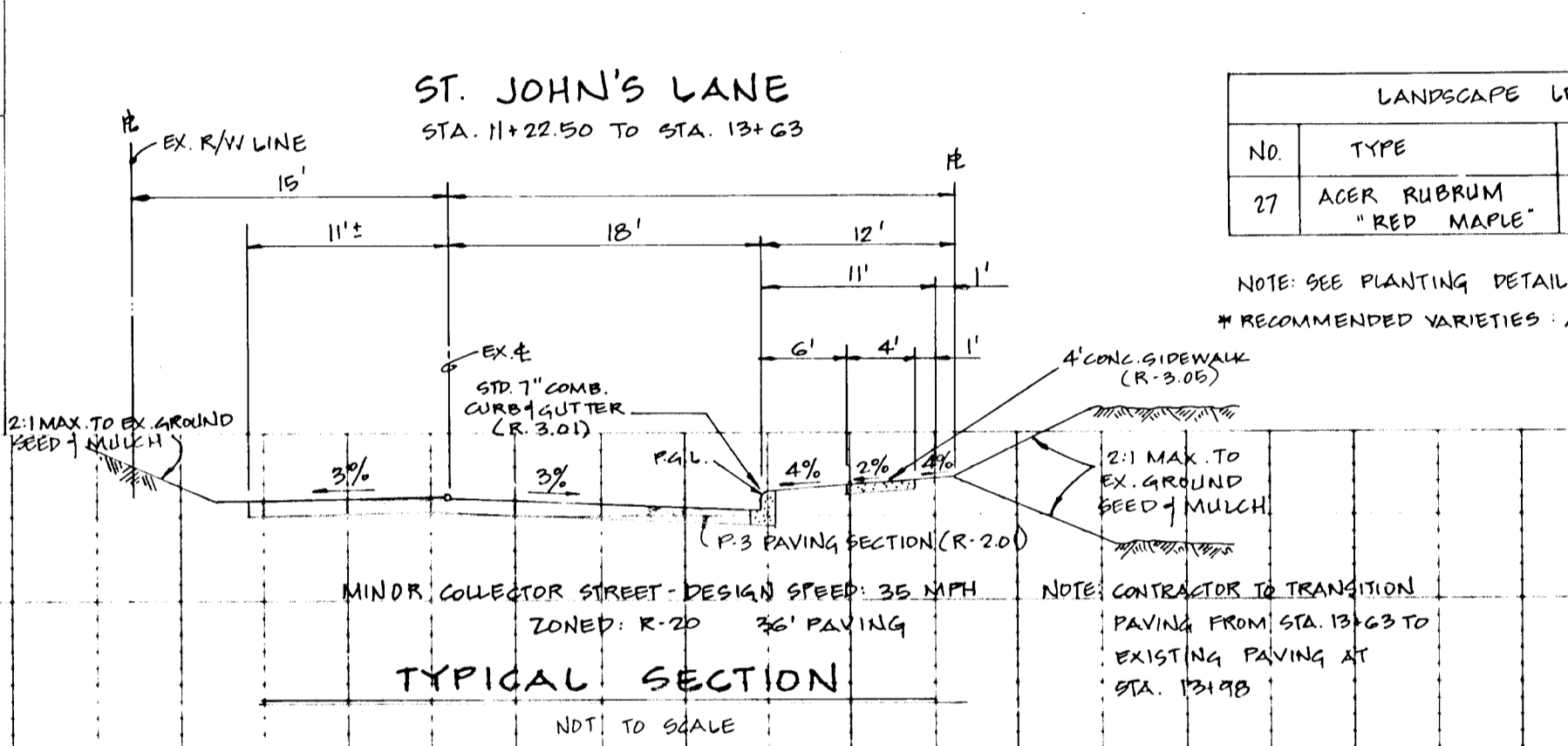
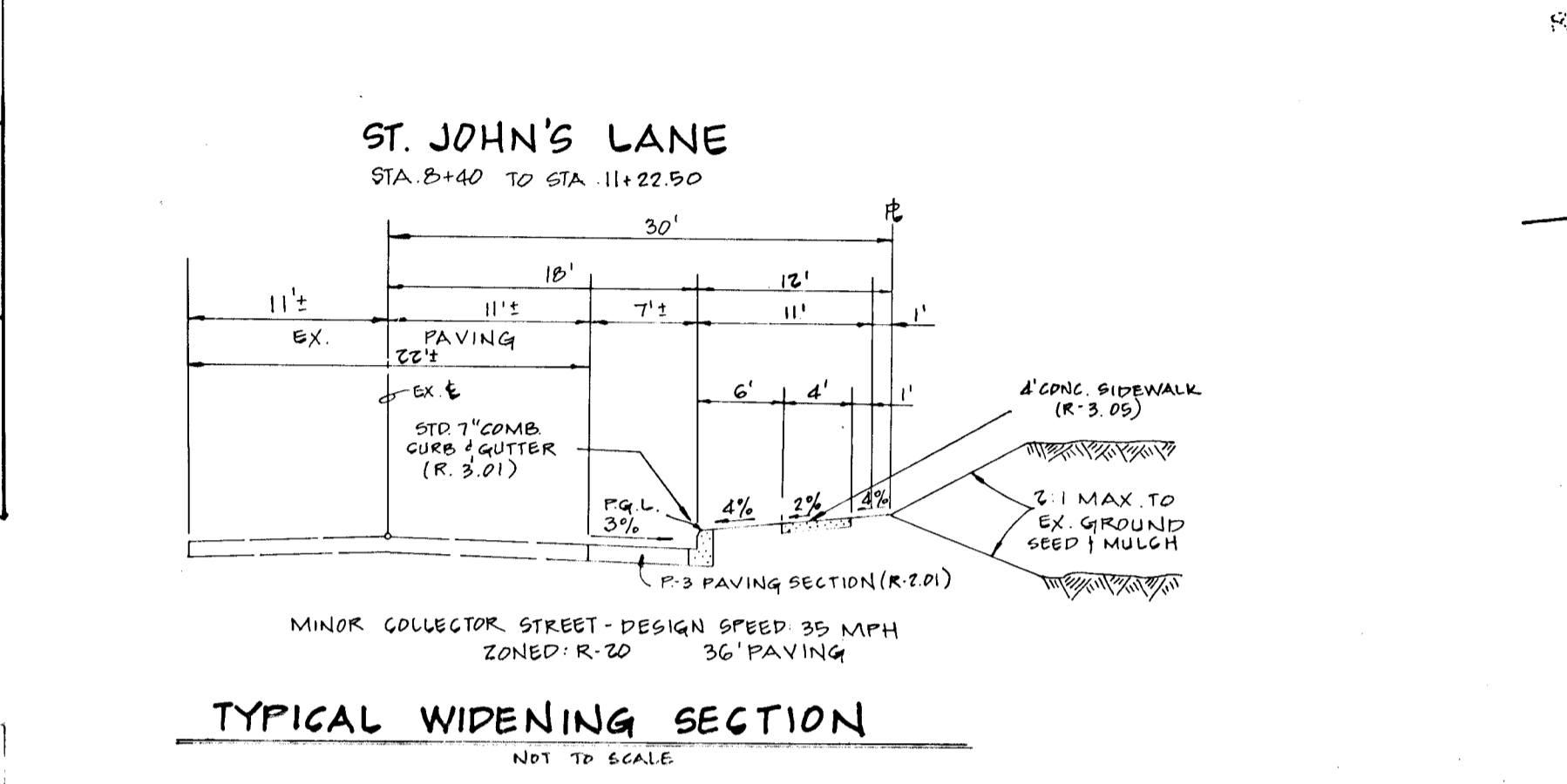
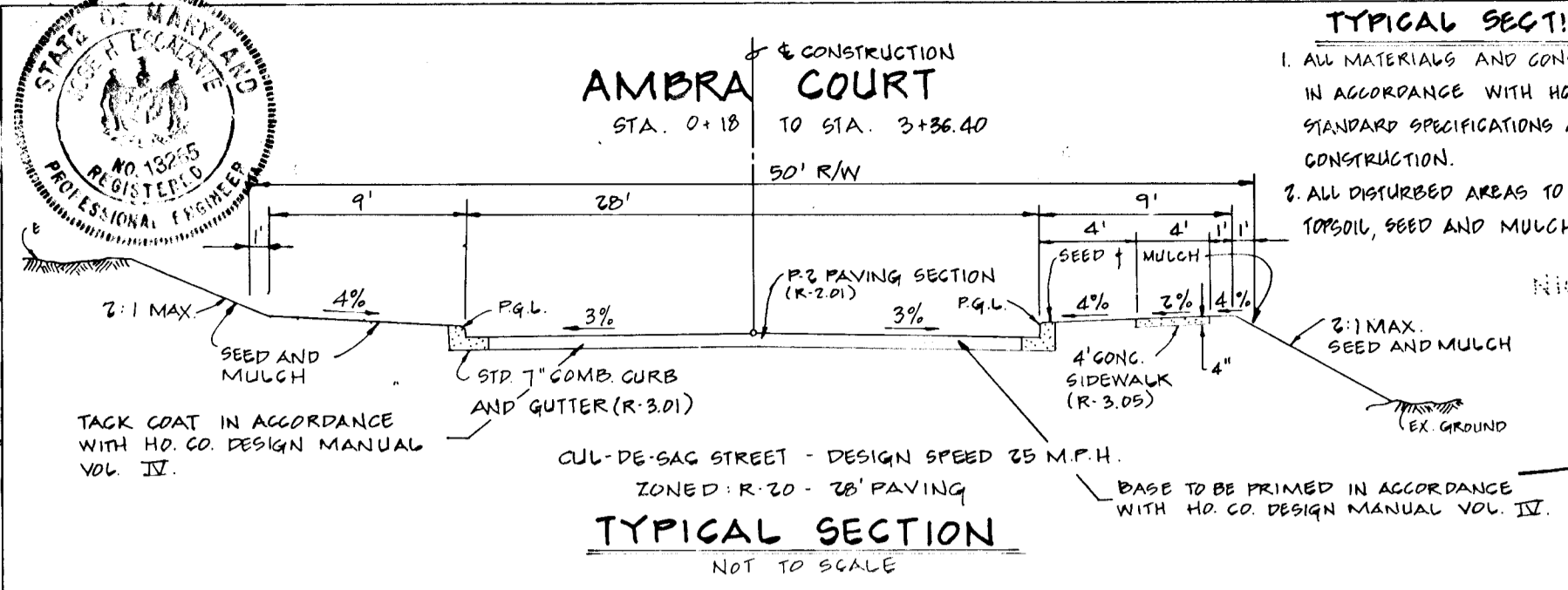
Rolando Jahn 6/29/89
 DATE

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 COMMUNITY PLANNING AND ZONING
 LAND DEVELOPMENT

Paul Jahn 7/6/89
 DATE

Orville W. Winkler 7/17/89
 DATE

William J. Ray 7-19-89
 DATE



NOTES

- FOR TYPICAL SECTION OF AMBRA COURT SEE THIS SHEET.
- FOR TYPICAL PAVING SECTIONS SEE SHEET 4 OF 6.
- FOR GROM DRAIN PROFILES SEE SHEET 4 OF 6.
- THE PROPOSED STREET LIGHT AT THE INTERSECTION OF ST. JOHN'S LANE AND AMBRA COURT SHALL BE 200 WATT MERCURY VAPOR LAMP MOUNTED ON A 25' HIGH FIBERGLASS BRONZE POLE.
- FOR ROAD WIDENING OF ST. JOHN'S LANE SEE SHEET 2 OF 6. SEE NOTES SHEET 2 OF 6.
- EXISTING STRUCTURES ON LOT 4 AND LOT 5 TO BE REMOVED OR RELOCATED AS NOTED. THE EXISTING PROPANE TANK SHALL BE DISCONNECTED AND ALL LINES CAPPED PRIOR TO REMOVAL.
- CONTRACTOR TO PROVIDE 16" WIDE CONCRETE DRIVEWAY APRON FOR USE IN COMMON DRIVEWAY FOR LOTS 4, 5, 6 AND 7.
- CONTRACTOR TO LOCATE EXISTING UTILITIES TO HIS OWN SATISFACTION PRIOR TO STARTING ANY WORK SHOWN ON THIS PLAN.
- CONTRACTOR TO TEST FIT EXISTING 6" H.P. GAS LINE PRIOR TO RE-PLACING 15" CMP IN INLET I-1. TEST FIT DENOTED.

REVISIONS

DATE	BY	DESCRIPTION
12/15/88	JAH/BDB	PER HOWARD CO. COMMENTS DATED 10/28/88
3/10/89	JAH/BDB	PER HOWARD CO. COMMENTS DATED 2/21/89
5/18/89	JAH/BDB	PER HOWARD CO. COMMENTS DATED 2/1/89
6/26/92	JPH	REPLACE P-3 PAVING SECTION TO CURED TRANSITION (PROTEIN IMPROVEMENTS TO ST. JOHN'S LANE) RELOC. EX. DRIVEWAY TO ST. JOHN'S LANE

COVE WOOD
 SECTION ONE
 LOT 1 THRU LOT 14
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

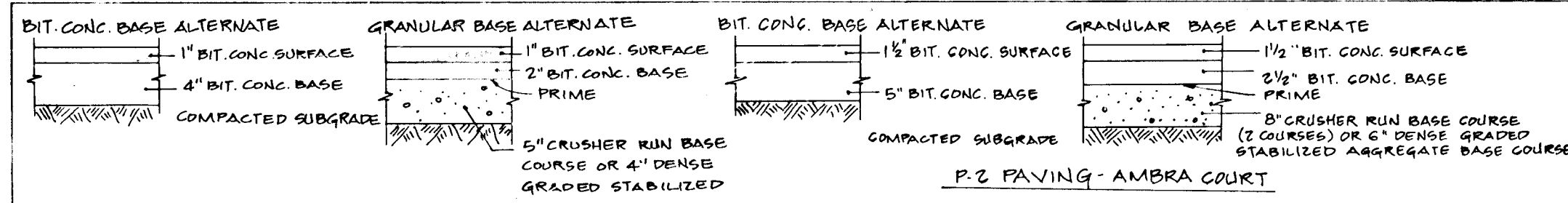
PLAN AND PROFILE
AMBRA COURT

OWNER / DEVELOPER
CHRIS STUBBS, INC.
 PO BOX 2056
 COLUMBIA, MD 21045
 301-596-7403

DATE: JULY 21, 1988
 SHEET 3 OF 6

DE WENBERRY B. DAVIS
 SURVEYORS

1459



P.1 PAVING-DRIVEWAY ADJUSTMENTS
ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion and sediment control represents a practical and viable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Joseph L. Smith 6/16/89
DATE

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Philip Stubbs 6/16/89
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.

Joseph M. Helm 6/20/89
DATE

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

Robert W. Zehn 6/29/89
DATE

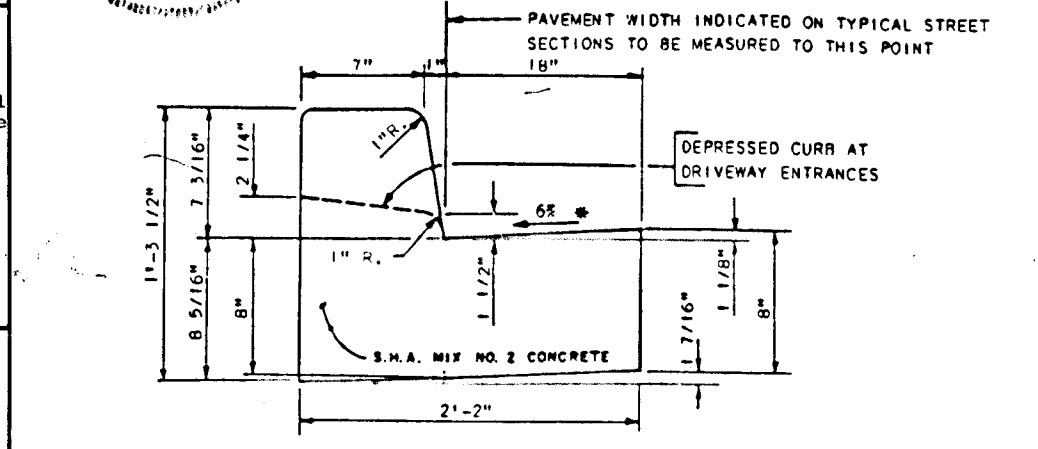
Janet S. L. Cayle 7/27/89
DATE

William W. McKeown 7/19/89
DATE

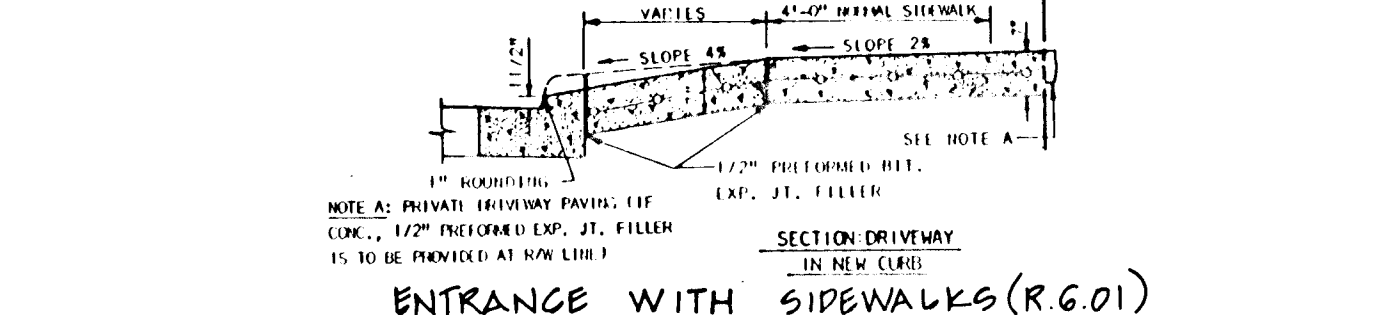
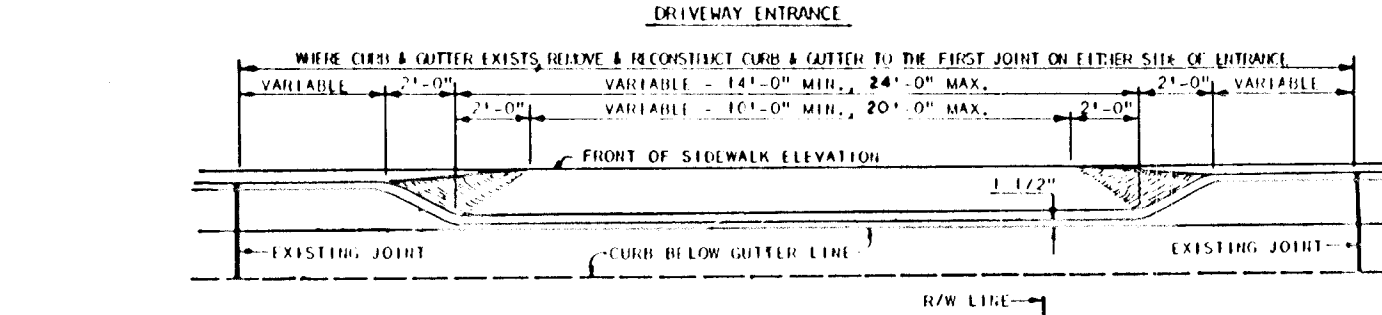
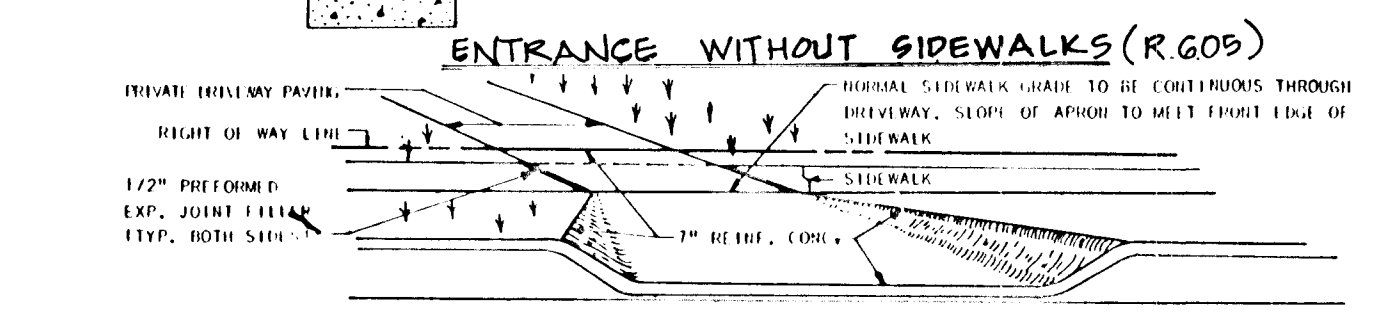
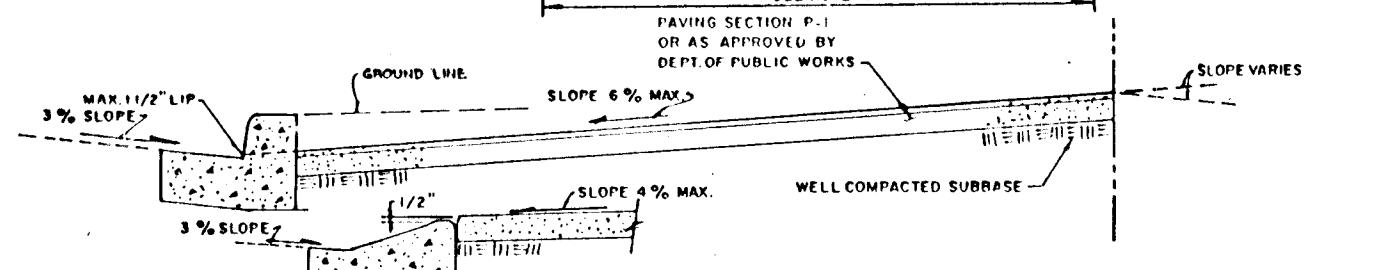
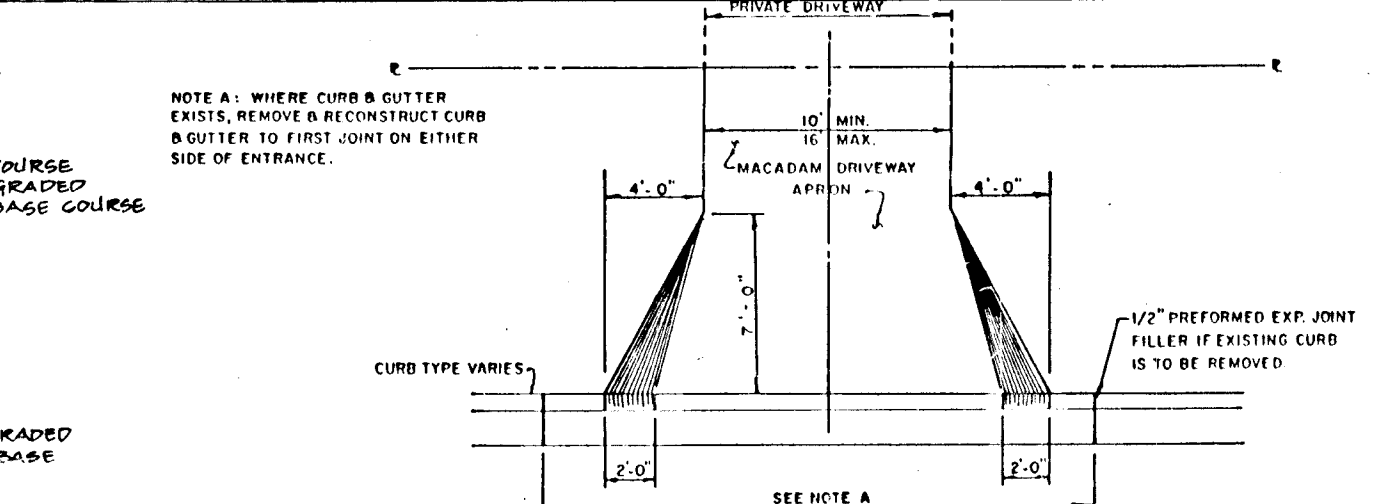
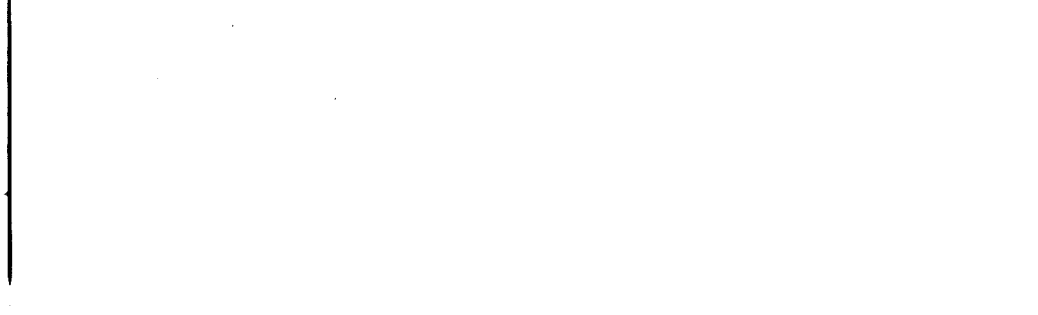
William E. Ray 7/11/89
DATE



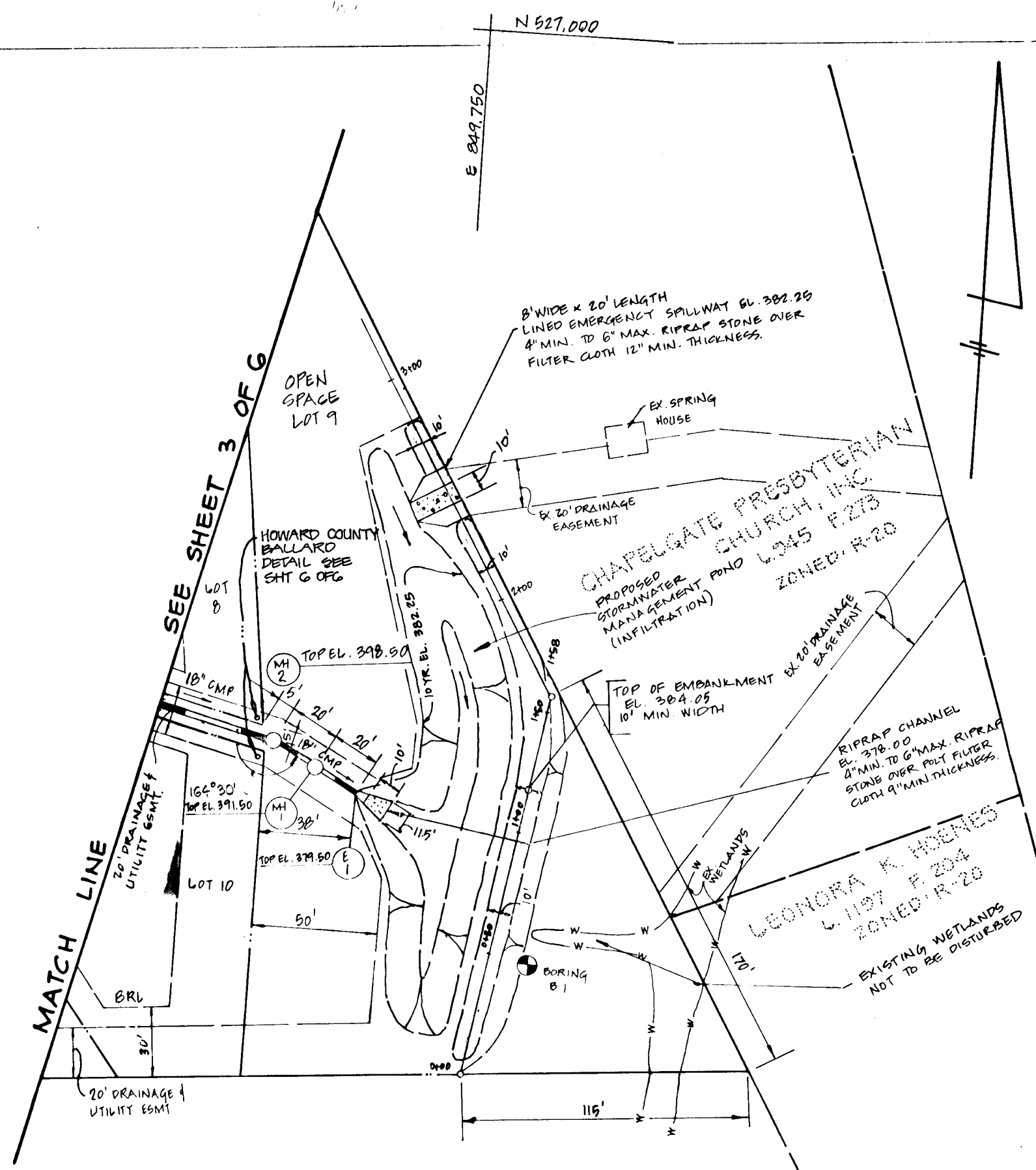
P.2 PAVING - ST. JOHN'S LANE
PAVING SECTIONS (R-2.01)
NOT TO SCALE



STANDARD 7" COMB. CURB & GUTTER (R-3.01)
NOT TO SCALE



TYPICAL DRIVEWAY ENTRANCE DETAILS
NOT TO SCALE



STRUCTURE SCHEDULE					
NO.	TYPE	TOP EL.	INV. IN.	INV. OUT.	DETAIL NO.
I-1	A-10	402.55	---	398.30	5.0.02
I-2	A-10	402.50	396.38	398.13	5.0.02
I-3	A-5 W/DEFL	404.67	400.18	398.93	5.0.01
I-4	A-5 W/DEFL	404.67	---	400.80	5.0.01
MH-1	STD.	391.50	385.24	378.91	5.0.1
MH-2	STD.	396.50	388.38	388.19	5.0.1
MH-3	STD.	401.90	398.71	398.46	5.0.1
E-1	MIL ENDS	378.50	---	378.00	5.0.6.1
E-2	TYPE C BRICK	401.54	---	399.54	**

* NOTE: ALL DETAIL NUMBERS REFER TO HOWARD COUNTY DESIGN MANUAL VOL. II STANDARD SPECIFICATIONS AND DETAILS PER CONSTRUCTION.
** FOR DETAIL SEE SHEET G-046

REVISIONS

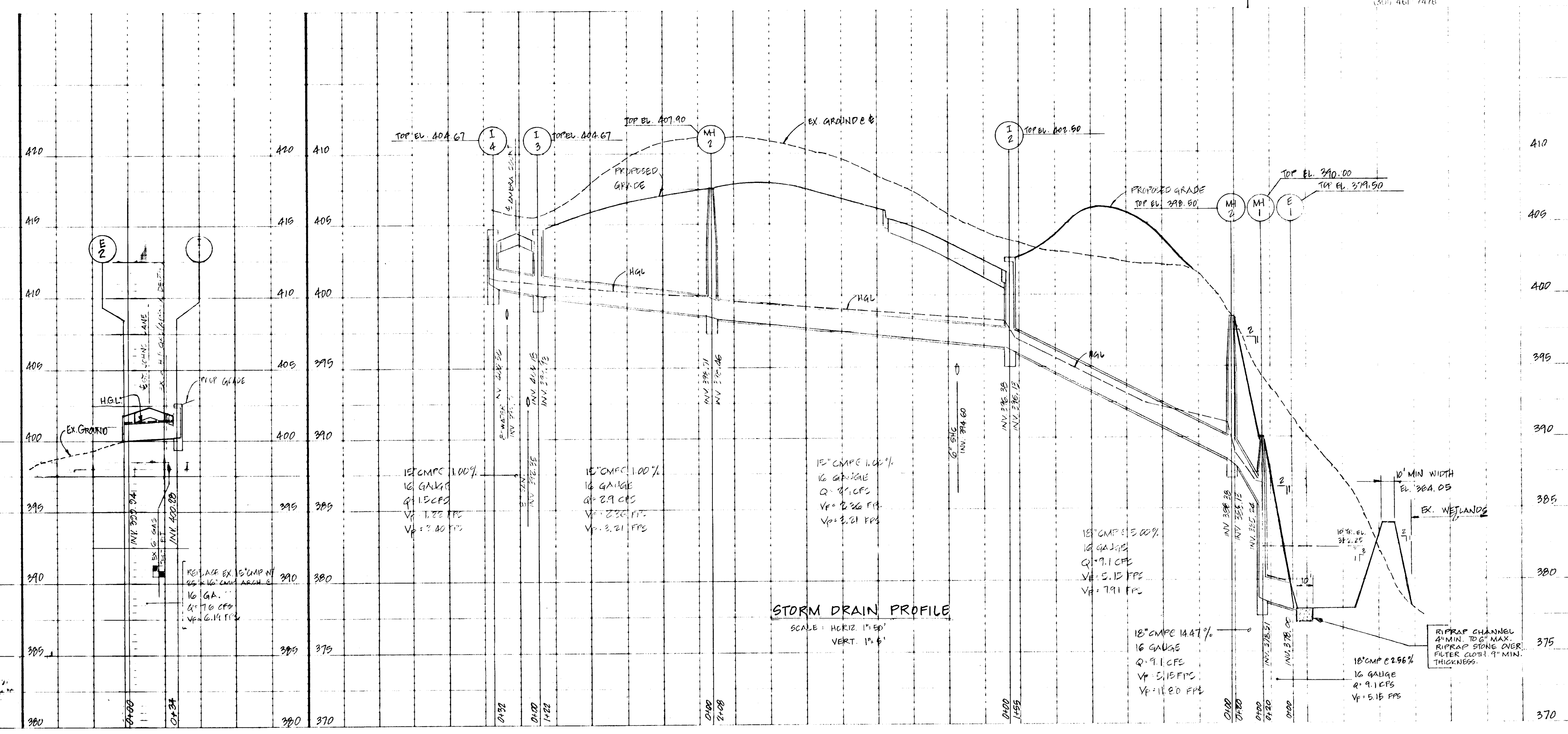
DATE	BY	DESCRIPTION
12/15/88	JAW/BBB	PER HOWARD CO. COMMENTS DATED 10/28/88
3/8/89	JAW/BBB	PER HOWARD CO. COMMENTS DATED 2/21/89
5/8/89	JAW/BBB	PER HOWARD CO. COMMENTS DATED 2/17/89
6/15/89	KDH	REVISED EX. CUTLINE ON ST. JOHN LANE
10/2/92	JPH	ELIMINATE 4' MACADAM PATHWAY

COVE WOOD
SECTION ONE
LOT 1 THRU LOT 14
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

STORM DRAIN PROFILES, STORMWATER MANAGEMENT SECTIONS AND DETAILS
OWNER / DEVELOPER
CHRIS STUBBS, INC.
PO BOX 2086
COLUMBIA, MD 21045
301-596-7403

SCALE: AS SHOWN DATE: JULY 29, 1988 SHEET: 4 OF 6
DESIGNED BY: B.D.B. DRAWN BY: J.A.U. CHECKED BY: B.D.B.
DEWEY RYAN & DAVIS
ENGINEERS ARCHITECTS PLANNERS SURVEYORS
5500 NORTH HUGH ROAD
ELICOTT CITY, MARYLAND 21045
(301) 461-7478

PROFILE SURVEYS PLOTTED & CHECKED BY: [Signature] DATE: 7/1/89



1459

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 requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Joseph J. Stubbs 6/16/89
DATE

Joseph J. Stubbs 6/16/89
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.

Joseph J. Stubbs 6/16/89
DATE

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

Richard J. Ziehm 6/29/89
DATE

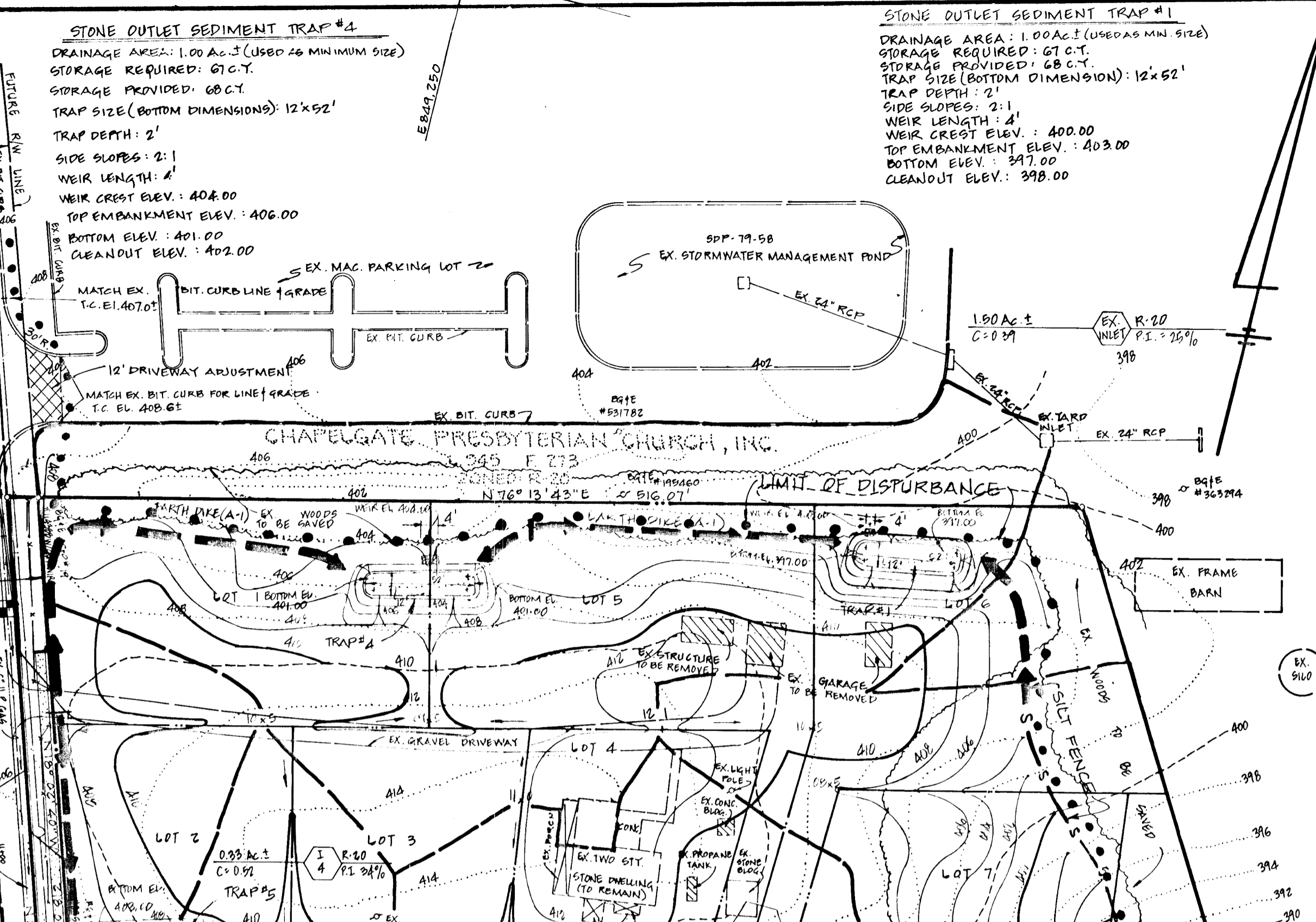
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Shirley W. Woodard 7/19/89
DATE

Richard J. Ziehm 7/21/89
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

- CONSTRUCTION SEQUENCE
1. OBTAIN GRADING PERMIT
 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON PLAN
 3. EXCAVATE TEMPORARY SEDIMENT TRAP NO. 1 IN AREA OF REMANENT EXISTING STORMWATER MANAGEMENT POND TO REQUIRED DIMENSIONS AS SHOWN ON PLAN. EXCAVATION OF TEMPORARY SEDIMENT TRAP SHALL BE TO EL. 380.00 OR 2 FEET ABOVE ULTIMATE BOTTOM OF BASIN TO AVOID CONTAMINATION OF PERMANENT INFILTRATION CHANNEL. EXCAVATE TEMPORARY SEDIMENT TRAP NO. 2 TO REQUIRED DIMENSIONS AS SHOWN ON PLAN. USE EXCAVATED MATERIAL TO CONSTRUCT EARTH DYLE AND STABILIZE WITH TEMPORARY SEEDING MIXTURE AND STRAW MULCH.
 4. AFTER SEDIMENT CONTROL MEASURES ARE IN PLACE AND APPROVED BY SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB REMAINDER OF SITE AND GRADE TO SUBGRADE.
 5. CONSTRUCT STORM DRAIN SYSTEM. INSTALL INLET PROTECTION AT ALL DEGES.
 6. CONSTRUCT OTHER UTILITIES.
 7. GRADE ROAD TO SUBGRADE. CONSTRUCT CURB & GUTTER AND LA BASE COURSE.
 8. REQUIREMENT SHALL BE REMOVED FROM THE SEDIMENT TRAPS WHEN THE CLEARANCE ELEVATION HAS BEEN REACHED.
 9. THE CONTRACTOR SHALL IMPROVE AND PROVIDE NECESSARY MAINTENANCE OF THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
 10. THE SEDIMENT TRAPS SHALL BE SPACED BY MOVING. THE RECOMMENDED SPACING BETWEEN THE TRAPS SHALL BE PRACTICED DEPENDING UPON THE SEDIMENT TRAP SIZE AND SOIL TYPE. THE SPACING SHALL BE DETERMINED BY THE SEDIMENT TRAP SIZE AND SOIL TYPE. THE SPACING SHALL BE DETERMINED BY THE SEDIMENT TRAP SIZE AND SOIL TYPE.
 11. BEFORE SEDIMENT TRAP REMOVALS AND BEFORE STABILIZED CONSTRUCTION ENTRANCE AS REQUIRED.
 12. BEFORE CONSTRUCTION OF TEMPORARY SEDIMENT TRAP TO PERMANENT STORMWATER MANAGEMENT INFILTRATION POND. ALL AREAS SHALL BE DIRECTLY GRADED FROM THE TRAP TO THE INFILTRATION POND. THE TRAP SHALL BE SPACED BY MOVING. THE RECOMMENDED SPACING BETWEEN THE TRAPS SHALL BE PRACTICED DEPENDING UPON THE SEDIMENT TRAP SIZE AND SOIL TYPE. THE SPACING SHALL BE DETERMINED BY THE SEDIMENT TRAP SIZE AND SOIL TYPE.
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STONE OUTLET SEDIMENT TRAP #1
DRAINAGE AREA: 1.00 AC. (USED AS MINIMUM SIZE)
STORAGE REQUIRED: 67 C.Y.
STORAGE PROVIDED: 68 C.Y.
TRAP SIZE (BOTTOM DIMENSIONS): 12'x9'
TRAP DEPTH: 2'
SIDE SLOPES: 2:1
WEIR LENGTH: 2'
WEIR CREST ELEV.: 404.00
TOP EMBANKMENT ELEV.: 406.00
BOTTOM ELEV.: 401.00
CLEANOUT ELEV.: 402.00

STONE OUTLET SEDIMENT TRAP #2
DRAINAGE AREA: 1.00 AC. (USED AS MINIMUM SIZE)
STORAGE REQUIRED: 67 C.Y.
STORAGE PROVIDED: 68 C.Y.
TRAP SIZE (BOTTOM DIMENSIONS): 12'x9'
TRAP DEPTH: 2'
SIDE SLOPES: 2:1
WEIR LENGTH: 2'
WEIR CREST ELEV.: 406.00
TOP EMBANKMENT ELEV.: 408.00
BOTTOM ELEV.: 403.00
CLEANOUT ELEV.: 404.00

STONE OUTLET SEDIMENT TRAP #3
DRAINAGE AREA: 1.00 AC. (USED AS MINIMUM SIZE)
STORAGE REQUIRED: 67 C.Y.
STORAGE PROVIDED: 68 C.Y.
TRAP SIZE (BOTTOM DIMENSIONS): 12'x9'
TRAP DEPTH: 2'
SIDE SLOPES: 2:1
WEIR LENGTH: 2'
WEIR CREST ELEV.: 406.00
TOP EMBANKMENT ELEV.: 408.00
BOTTOM ELEV.: 403.00
CLEANOUT ELEV.: 404.00

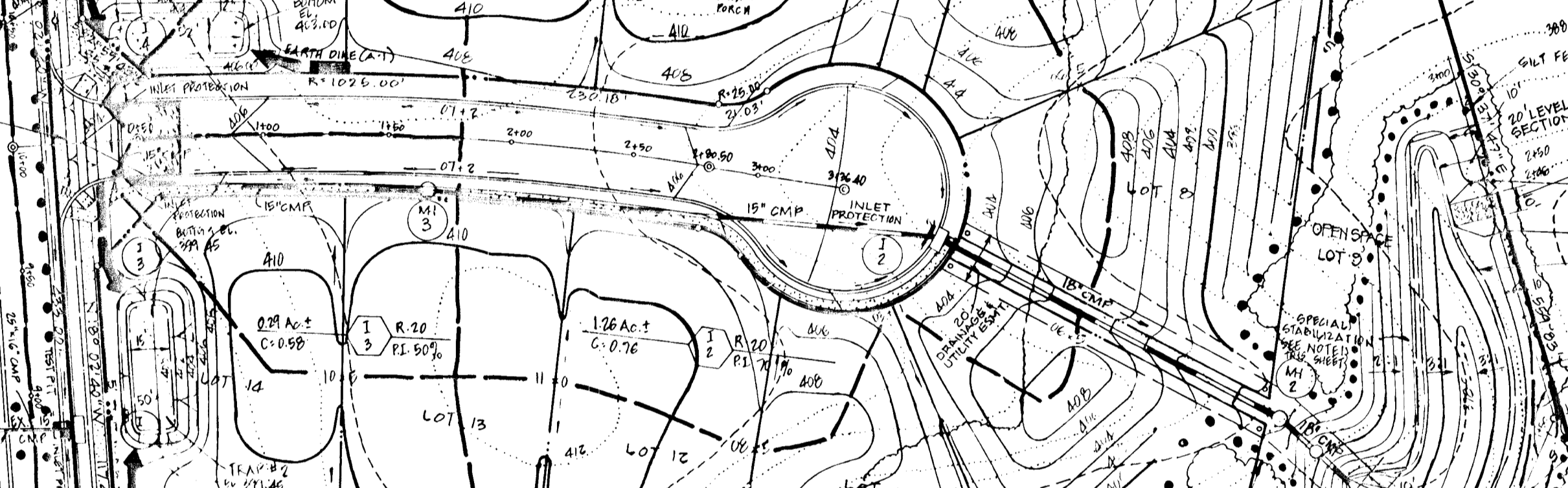
TEMPORARY SEDIMENT BASIN #3
DRAINAGE AREA: 3.21 AC. ±
STORAGE REQUIRED: 216 C.Y.
STORAGE PROVIDED: 216 C.Y.
TRAP SIZE (BOTTOM DIMENSIONS): 117'x20'
TRAP DEPTH: 2'
SIDE SLOPES: 3:1
TOP EMBANKMENT ELEV.: 384.00
BOTTOM ELEV.: 380.00
CLEANOUT ELEV.: 381.00
WEIR CREST ELEV.: 383.00
WEIR WIDTH: 8'

SOILS LEGEND

USDA SOILS MAP NO. 16
CUB: Conous silt loam, 3-8% slopes
G1B2: Glenlyon loam, 3-8% slopes
G1C2: Glenlyon loam, 8-15% slopes
G1D3: Glenlyon silt loam, 15-20% slopes
NAB2: Neshaminy silt loam, 3-8% slopes
NAC2: Neshaminy silt loam, 8-15% slopes

■ DENOTES EXISTING BUILDINGS ON-SITE TO BE REMOVED

STONE OUTLET SEDIMENT TRAP #5
DRAINAGE AREA: 1.00 AC. (USED AS MINIMUM SIZE)
STORAGE REQUIRED: 67 C.Y.
STORAGE PROVIDED: 68 C.Y.
TRAP SIZE (BOTTOM DIMENSIONS): 12'x9'
TRAP DEPTH: 2'
SIDE SLOPES: 2:1
WEIR LENGTH: 2'
WEIR CREST ELEV.: 406.00
TOP EMBANKMENT ELEV.: 408.00
BOTTOM ELEV.: 403.00
CLEANOUT ELEV.: 404.00



CONSTRUCTION SPECIFICATIONS FOR SWM POND

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

1. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1. Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

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

11. FILL (FILL MATERIAL SHALL COME FROM THE SAME SOURCE AS THE SOILS ON-SITE)

The fill material shall be taken from approved designated borrow areas or areas. It shall be free of roots, stumps, wood, rubbish, excessive 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 along the length of the embankment shall be increased above the design elevation (including treacher) as shown on the plans.

Areas on which fill is to be placed shall be aerated prior to placement of fill material. Fill material 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.

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 the hauler. The hauler shall be free of rocks, stumps, wood, rubbish, excessive stones, frozen or other objectionable materials. The embankment shall be constructed to a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. All material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used. Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the same borrow material available and shall be compacted with equipment or rollers to ensure maximum density and uniformity of compaction.

12. STRUCTURAL FACILITIES

Structural facilities 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 connected by the center or other compacting equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall material be allowed to accumulate closer than four feet, measured horizontally, to any part of a structure. Unless otherwise specified, all structures shall be constructed of concrete. Concrete structure of pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

VI. STABILIZATION

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

VII. EROSION AND SEDIMENT CONTROL

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

Construction Specifications for Stabilization

The construction of all stabilization basins shall comply with the criteria set forth in the Manual and Specifications for Stormwater Management dated July, 1981 or subsequent revisions and the additional criteria provided below.

Schedule

The sequence of various phases of basin construction shall be coordinated with the overall project construction schedule. A program should schedule rough excavation of the basin with the rough grading phase of the project to permit use of the material as fill in earthwork areas. The partially excavated basin could serve as a sedimentation basin in order to assist in erosion and sediment control during construction. However, basins near final stages of excavation should never be used prematurely for runoff disposal. Drainage from unexcavated, freshly constructed slopes within the watershed area would load the newly formed basin with a heavy concentration of fine sediment. This could seriously impact the natural infiltration characteristics of the basin floor. Final grade of an infiltration basin shall not be attained until after its use as a sediment control basin is completed.

Specifications for basin construction should state: (1) the earliest point in program when storm drainage may be directed to the basin, and (2) the means by which this delay in use is to be accomplished. Due to the wide variety of conditions encountered among projects, each should be separately evaluated in order to postpone use as long as is reasonably possible.

Excavation

Initial basin excavation should be carried to within 1 foot of the final elevation of the basin floor. Final excavation to the finished grade should be deferred until all disturbed areas on the watershed have been stabilized or protected. The final phase excavation should remove all accumulated sediments. Relatively light tracked equipment is recommended for this operation to avoid compaction of the basin floor. After the final grading is completed, the basin floor should be deeply tilled by means of rotary tillage or disk harrows to provide a well-aerated, highly porous surface texture.

Lining Material

Infiltration basins may be lined with a 6- to 12-inch layer of filter material such as coarse sand to help prevent the buildup of appreciable deposits on the soil surface. The filter layer can be prepared or cleaned when it becomes clogged. When a 6-inch layer of coarse organic material is specified for lining (such as mulch, leaves, stems, etc.) or spreading into the basin floor to increase the permeability of the soils, the basin floor should be seeded or mulched for a brief period, then allowed to dry subsequent to this operation. This induces the organic material to decay rapidly, loosening the upper soil layer.

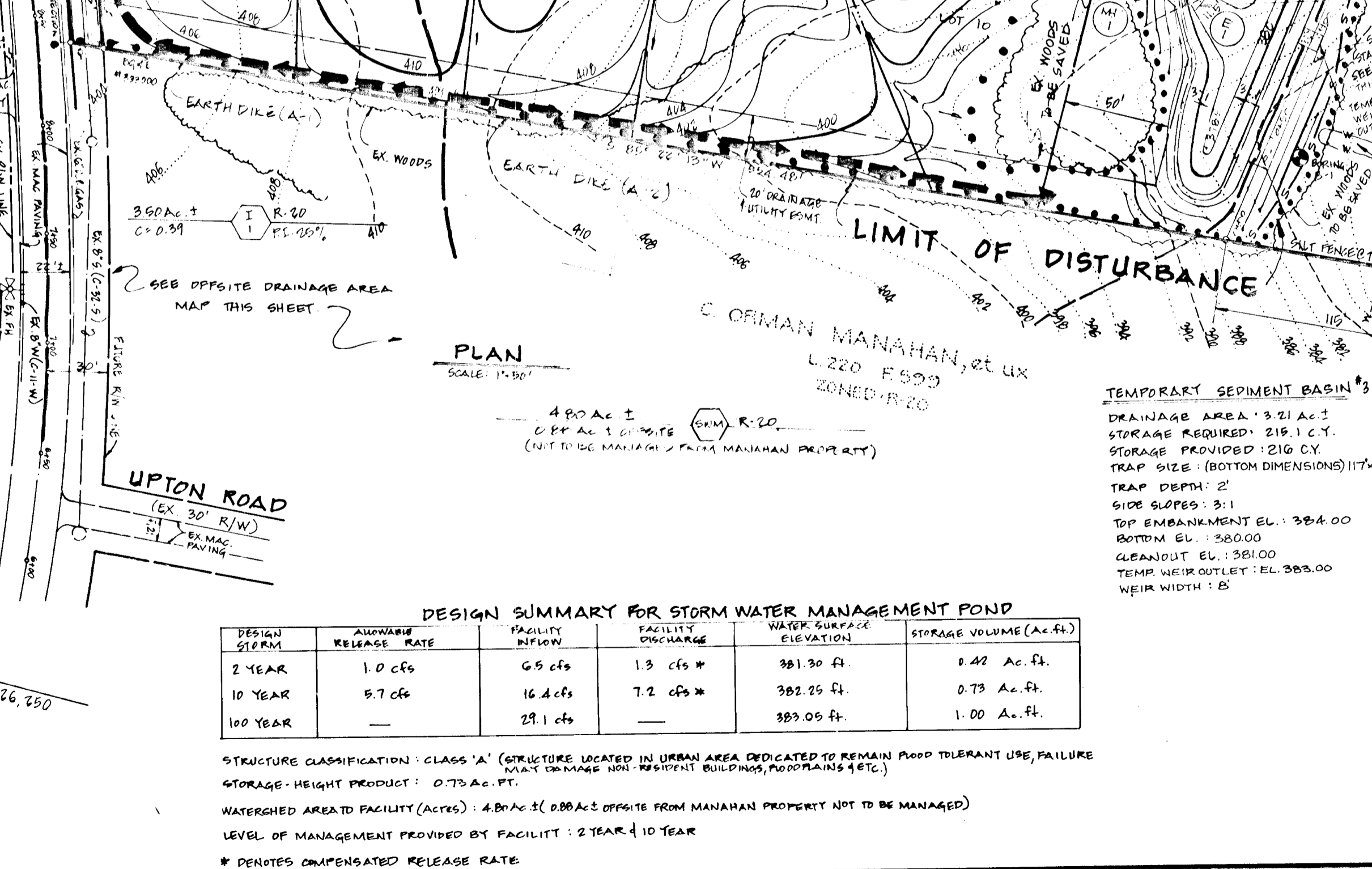
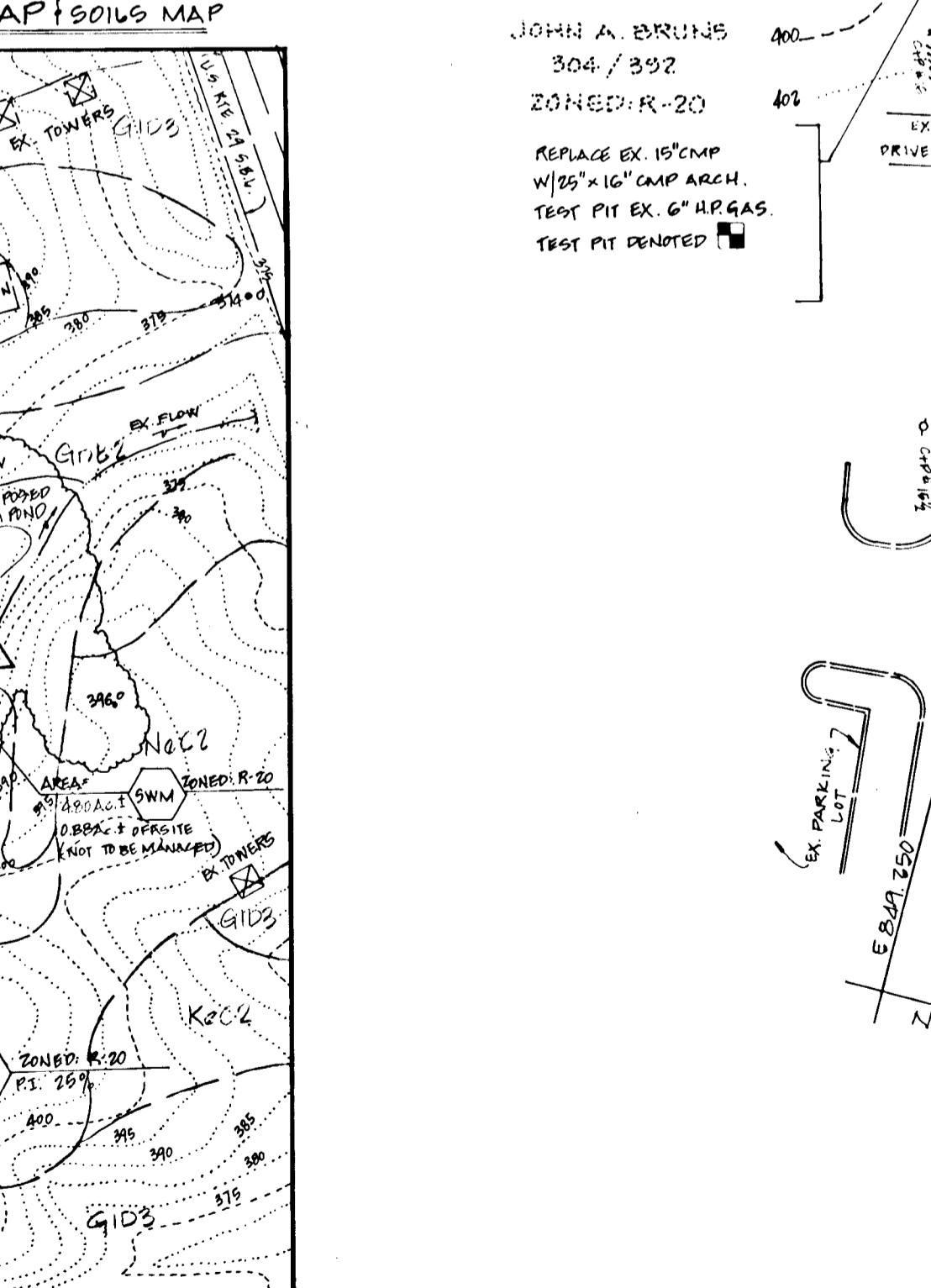
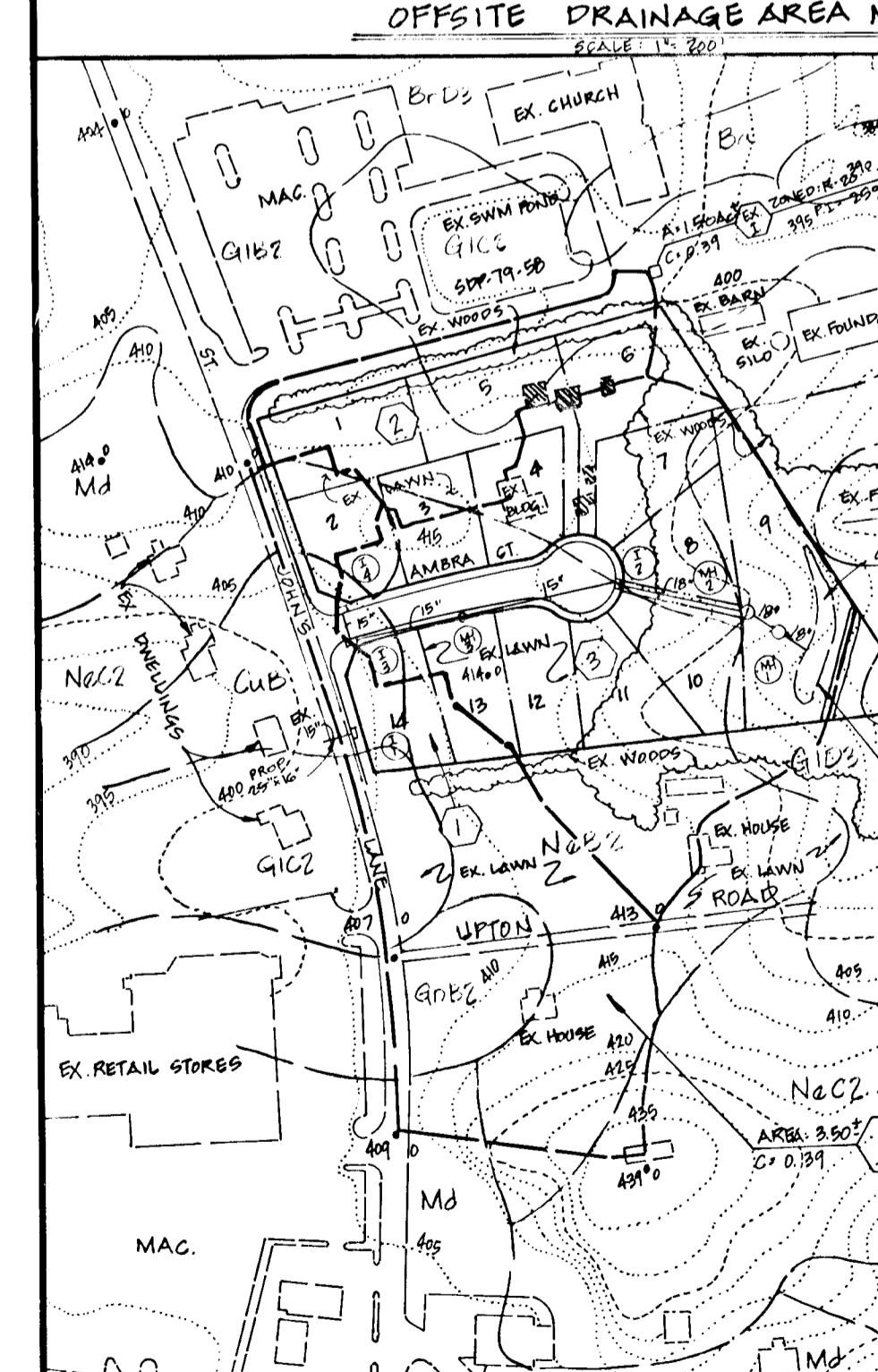
Establishing dense vegetation on the basin side slopes and floor is recommended. A dense vegetative stand will not only prevent erosion and sloughing, but will also provide a natural means of maintaining relatively high infiltration rates. Erosion protection of inflow points to the basin shall also be provided. Removal of accumulated sediment is a problem only at the basin floor. Little maintenance is normally required to maintain the infiltration capacity of slope areas.

Selection of suitable vegetative materials for the side slope and all other areas to be stabilized with vegetation and application of required fertilizer and mulch shall be done in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control. Local Extension Agencies should also be consulted.

SPECIAL STABILIZATION AND GRADING NOTES

1) ALL SLOPES 3:1 AND STEEPER WITHIN STORMWATER MANAGEMENT AREA SHALL BE STABILIZED WITH CROWN VETCH (CORALLINA VERA).

2) PROPOSED GRADING SHOWN WILL HAVE NO SLOPES GREATER THAN 25% EXCEPT WITHIN STORMWATER MANAGEMENT AREA.



DESIGN SUMMARY FOR STORM WATER MANAGEMENT POND

DESIGN TERM	AVERAGE RELEASE RATE	FACILITY INFLOW	FACILITY OUTFLOW	WATER SURFACE ELEVATION	STORAGE VOLUME (A.C.F.)
2 YEAR	1.0 cfs	65 cfs	1.3 cfs	381.30 ft.	0.42 A.C.F.
10 YEAR	6.7 cfs	16.4 cfs	7.2 cfs	382.25 ft.	0.73 A.C.F.
100 YEAR	-	29.1 cfs	-	383.05 ft.	1.00 A.C.F.

STRUCTURE CLASSIFICATION: CLASS 'A' (STRUCTURE LOCATED IN URBAN AREA DEDICATED TO REMAIN POOD TOLERANT USE FAILURE MAY CAUSE NON-RESIDENT BUILDINGS, ROADS, PLANS, ETC.)

STORAGE - HEIGHT PRODUCT: 0.73 A.C.F.T.

WATERSHED AREA TO FACILITY (ACRES): 4.00 AC. (0.00 AC. OFFSITE FROM MANAHAN PROPERTY NOT TO BE MANAGED)

LEVEL OF MANAGEMENT PROVIDED BY FACILITY: 2 YEAR 4 10 YEAR

* DENOTES COMPENSATED RELEASE RATE

REVISIONS

DESIGNED	DATE	BY	DESCRIPTION
B.D. BURTON	1-21-88	JAH/BJB	PER HOWARD CO. COMMENTS DATED 10/28/88
J.A. UDICH	7-29-88	JAH/BJB	PER HOWARD CO. COMMENTS DATED 5/21/89
B.D. BURTON	7-29-88	JPH	PER HOWARD CO. COMMENTS DATED 2/7/89
I.L. WILLEY	1-29-88	JPH	PER HOWARD CO. COMMENTS DATED 10/28/88
I.L. WILLEY	10/2/82	JPH	ELIMINATED 4' MACAGAN PATHWAY

DESIGNED B.D. BURTON 1-21-88
DATE

DRAWN J.A. UDICH 7-29-88
DATE

CHECKED B.D. BURTON 7-29-88
DATE

APPROVED I.L. WILLEY 1-29-88
DATE

Dewberry & Davis
ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
3300 N. RIDGE ROAD, SUITE 100
ELLICOTT CITY, MD. 21043
(301) 461-7478

OWNER/DEVELOPER
CHRIS STUBBS, INC.
P.O. BOX 2036
COLUMBIA, MD 21045
(301) 596-7403

GRADING, SEDIMENT CONTROL PLAN, DRAINAGE AREA MAP AND STORMWATER MANAGEMENT PLAN
GOVE WOOD
SECTION ONE
LOT 1 THRU LOT 14
20th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN CONTRACT NO. FILE NO. P004-86 SHEET 5 OF 6

1459

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 requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

DEVELOPER'S CERTIFICATE
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Chris Stubbs 6/16/89
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.

John Nelson 6/20/89
DATE
US Soil Conservation Service
These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Ronald Ziehm 6/29/89
DATE
Howard Soil Conservation District

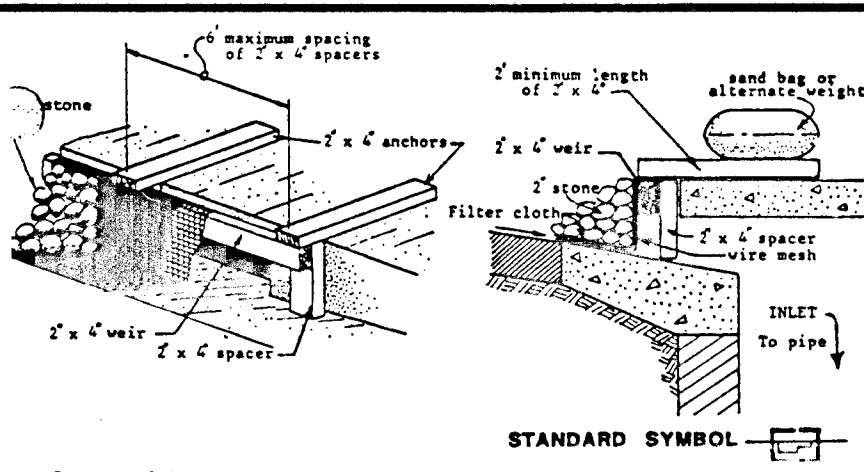
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Land Development Division
Date 7/19/89
Shaunelle M. Weiland
Chief, Bureau of Highway

Chief, Bureau of Engineering
Date 7-19-89
William B. Ray

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

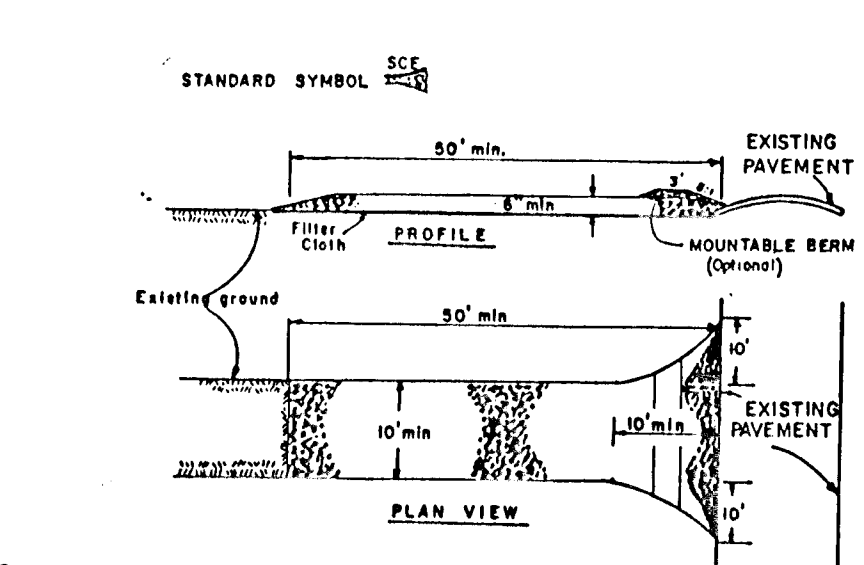
Chief, Division of Community Planning and Land Development
Date 7/27/89
Mark S. Campbell



STANDARD SYMBOL

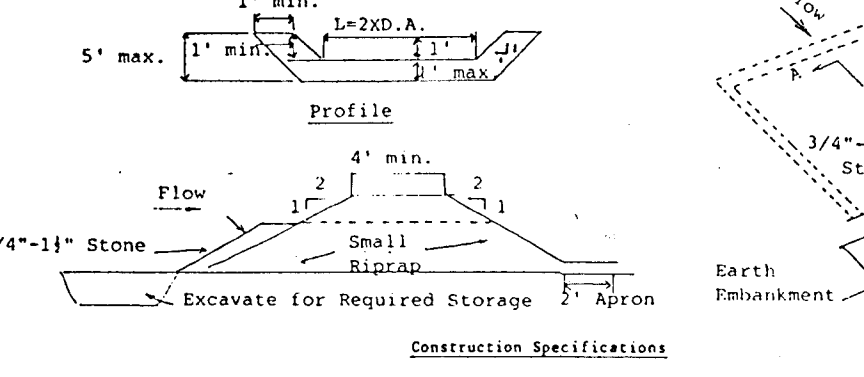
- 1. Materials
A. Wooden frame is to be constructed of 2" x 4" construction grade lumber.
B. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
C. Filter cloth must be of a type approved for this purpose, resistant to sunlight with a pore size, 20S, 40-85, to allow sufficient passage of water and removal of sediment.
D. Stone is to be 2" in size and clean, such as fine sand would clog the cloth.
Curb Inlet Protection.
1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" wire (ensuring throat length plus 4") as shown on the standard drawing.
2. Place a piece of approved filter cloth (40-85 stone) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" wire.
3. Securely nail the 2" x 4" wire to 9" long vertical spacers to be located between the wire and inlet face (max. 6" apart).
4. Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the wire at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by spacers or alternate weight.
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. Assume that storm flow does not bypass later by installing temporary earth or asphalt dikes directing flow into inlet.

CURB INLET PROTECTION NOT TO SCALE



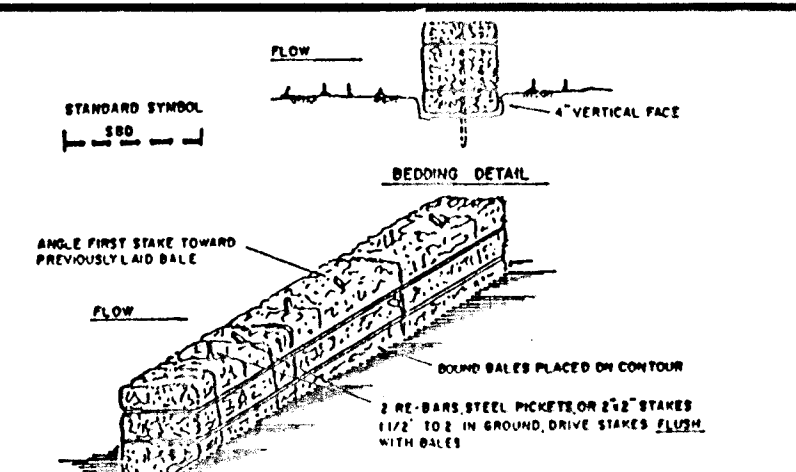
- 1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Gravel - If required, but not less than 30 feet except on a single residential lot where a 20 foot minimum length would apply.
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be required on the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Cover - All surface water which flows or drains toward construction entrance shall be piped across the entrance. If piping is impractical, a mounded berm with 3:1 slopes will be provided.
7. Maintenance - The entrance shall be maintained in a condition which will prevent erosion or sediment from entering the entrance. This may require periodic top dressing with additional stone as conditions demand and regular maintenance of the entrance. All sediment which accumulates on the entrance, spilled, dropped, washed or tracked onto public right-of-way must be removed immediately.
8. Washing - Trucks 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 stone and which drains into an approved sediment trapping device.
9. Methods Inspection and needed maintenance shall be provided for each entrance.

STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE



- 1. Area under sedimentation shall be cleared, grubbed and stripped of any vegetation and root mat. The pond area shall be cleared.
2. The embankment shall be constructed of fill material that is free of roots and other woody vegetation, as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be completed by traversing with equipment while it is being constructed.
3. All inside cut and fill slopes shall be 3:1 or flatter.
4. Sediment traps must be stabilized within seven calendar days of disturbance or redistribution.
5. The outlet shall be constructed of small riprap (1/2" to 8" aggregate) along with a 1' thickness of clean #6 stone (1/2" to 1 1/2" aggregate) stone placed on the opposite side of the small riprap. The weir section of the outlet shall be 1' lower than the embankment height, and shall be level. The outlet shall discharge onto an undisturbed or stabilized area.
6. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
7. The structure shall be inspected periodically and after each rain and maintenance performed as necessary.
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
9. The structure shall be removed and the area stabilized with the drainage area has been properly stabilized.

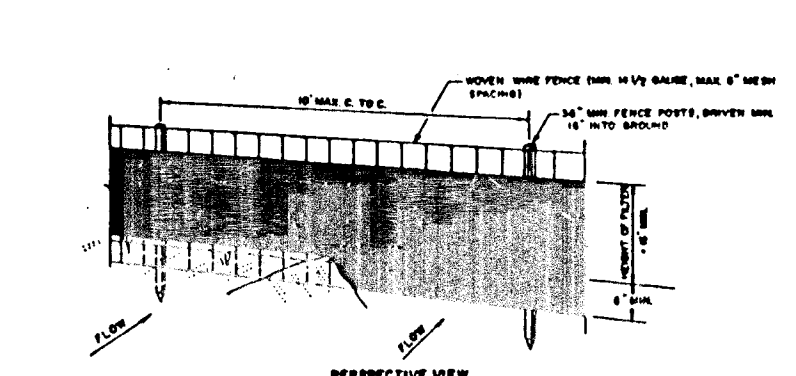
STONE OUTLET SEDIMENT TRAP NOT TO SCALE



STRAW BALE DIKE NOT TO SCALE

- 1. Straw bale dikes must be embedded, or keyed in, at least 6 inches into the ground. The key-in trench can be excavated by hand or by machine.
2. Bales shall be placed in the trench such that adjacent bales are tightly abutting and the bedding on the bales are horizontal and above ground level.
3. The wooden stakes or rebar post shall be used to anchor the dike in place. The stakes or rebar post must be at least 36 inches long and driven through the bales to a depth of 1 1/2 to 2 feet into the ground, and flush with the top of the bale. The first stake shall be driven at an angle toward the previously laid bale, so that the bales are forced together. There shall be no gaps between or under the bales.
4. Straw bale dikes must be inspected periodically and after each rain event and replaced as necessary.

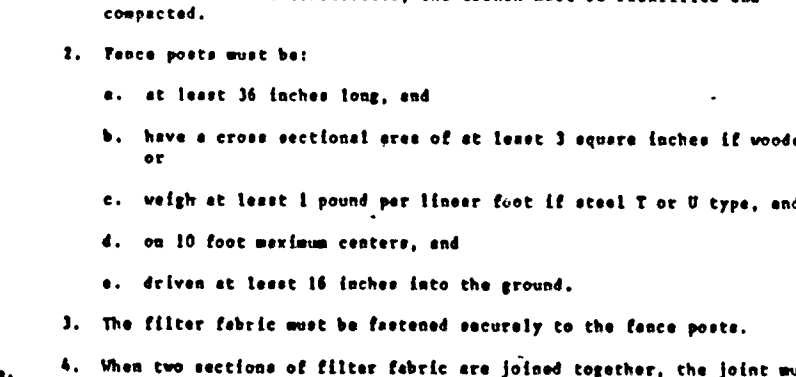
STRAW BALE DIKE NOT TO SCALE



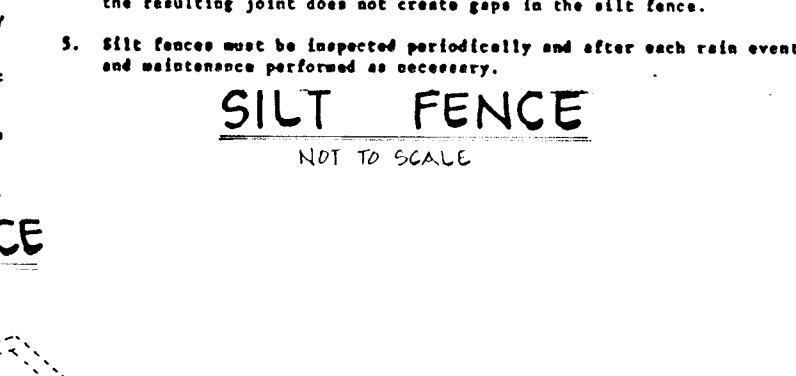
SILT FENCE NOT TO SCALE

- 1. Silt fences must be embedded, or keyed in, at least 6 inches into the ground. Laying the lower edge of the filter fabric on the ground and covering it with soil is not an acceptable method of keying in. The silt fence is constructed, the trench must be backfilled and compacted.
2. Fence posts must be:
a. at least 36 inches long, and
b. have a cross sectional area of at least 3 square inches if wooden, or
c. weigh at least 1 pound per linear foot if steel T or C type, and
d. on 10 foot maximum centers, and
e. driven at least 16 inches into the ground.
3. The filter fabric must be fastened securely to the fence posts.
4. When two sections of filter fabric are joined together, the joint must occur at a fence post. The ends of the filter fabric should be overlapped by at least 6 inches, folded, and fastened to the fence post so that no gaps in the fence occur. Manufacturer's recommendations for joining fabric sections may be followed as long as the resulting joint does not create gaps in the silt fence.
5. Silt fences must be inspected periodically and after each rain event and maintenance performed as necessary.

SILT FENCE NOT TO SCALE



CORE TRENCH NOT TO SCALE

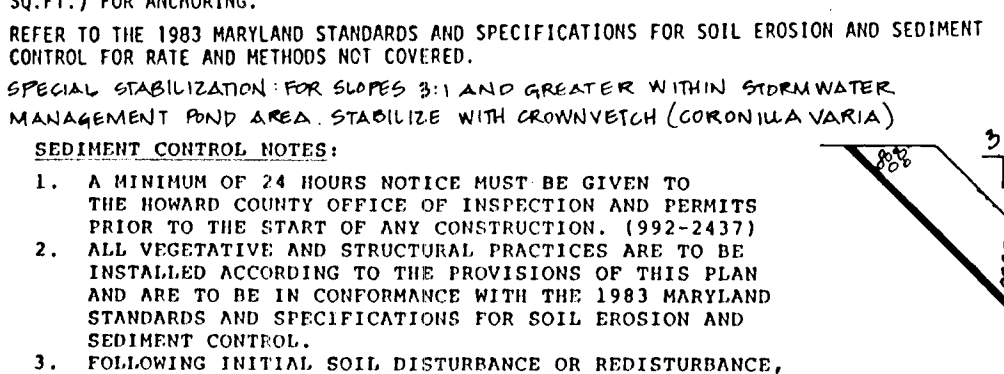


METAL END SECTION CIRCULAR METAL PIPE NOT TO SCALE

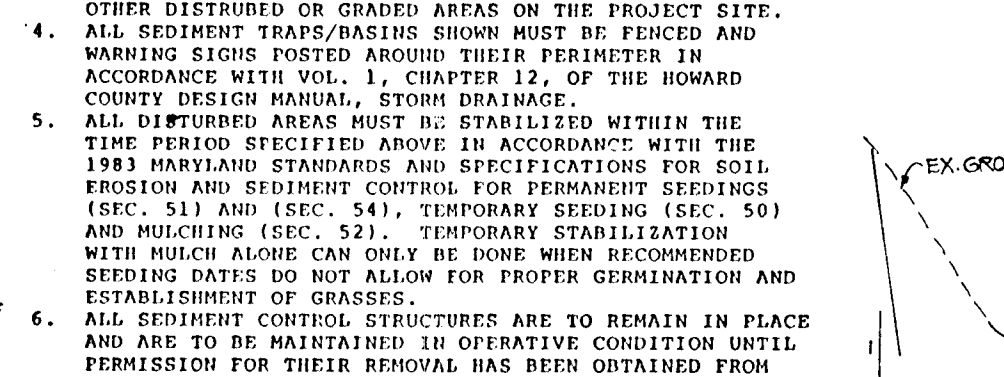
PERMANENT SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PRACTICABLE, USE HARROW.
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SEEDINGS:
1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.
2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (22 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 20 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 50 LBS PER ACRE (3.5 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ. FT.) OF KEEPING LOVERGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
MULCHING: APPLY 1 1/2 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 3 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND 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 BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PRACTICABLE, USE HARROW.
SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 20 BUSHES PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 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 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 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 3 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.

SEDIMENT CONTROL NOTES:
1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (982-2437)
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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A 7 CALENDAR DAY PER ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. BY 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND MARKING SIGNS POSTED AROUND THEIR PERIMETER. IN ACCORDANCE WITH VOL. 1, CHAPTER 12, 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 SEEDINGS (SEC. 51) AND (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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
TOTAL AREA OF SITE: 6.34 ACRES
AREA DISTURBED: 2.60 ACRES
AREA TO BE ROOFED OR PAVED: 0.43 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 6.27 ACRES
TOTAL CUT: 16,000 CU. YDS.
TOTAL FILL: 16,000 CU. YDS.
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.

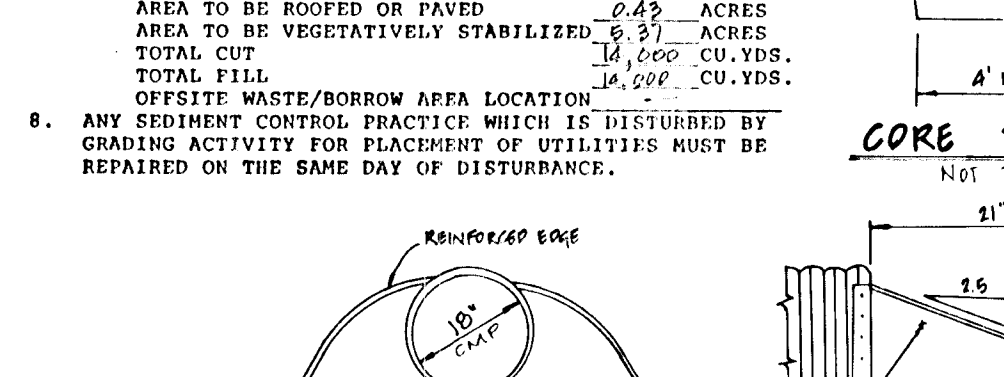
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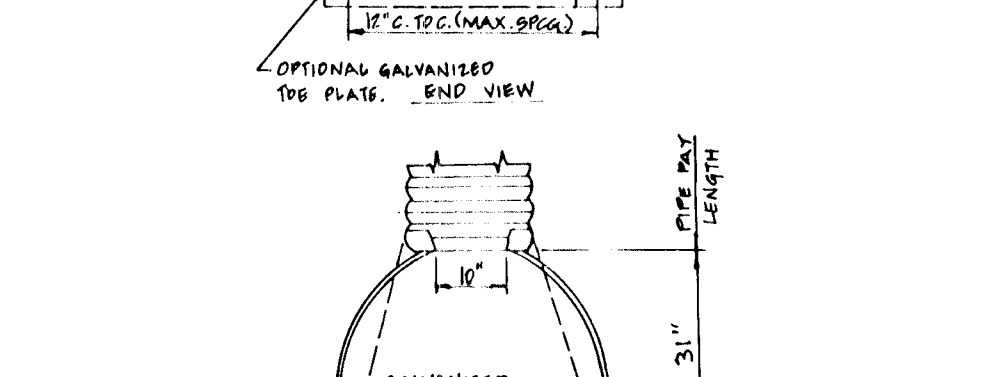
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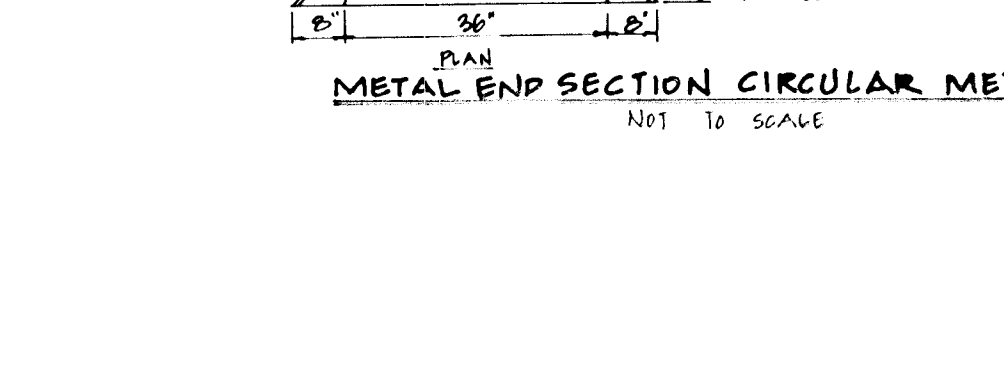
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METAL END SECTION CIRCULAR METAL PIPE NOT TO SCALE



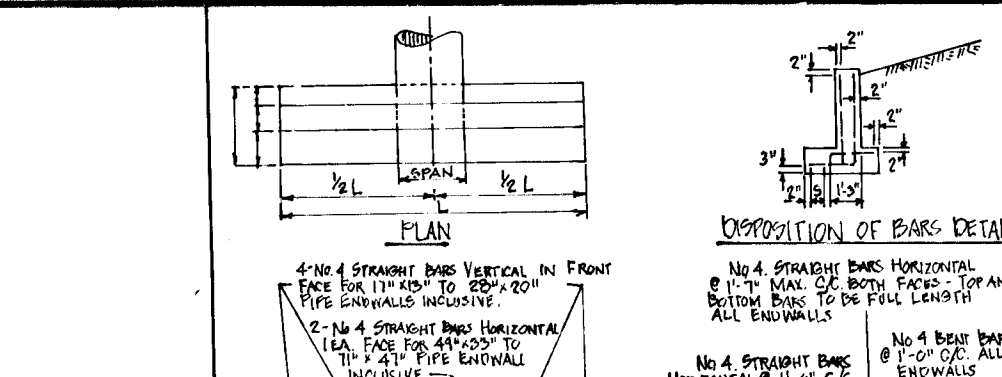
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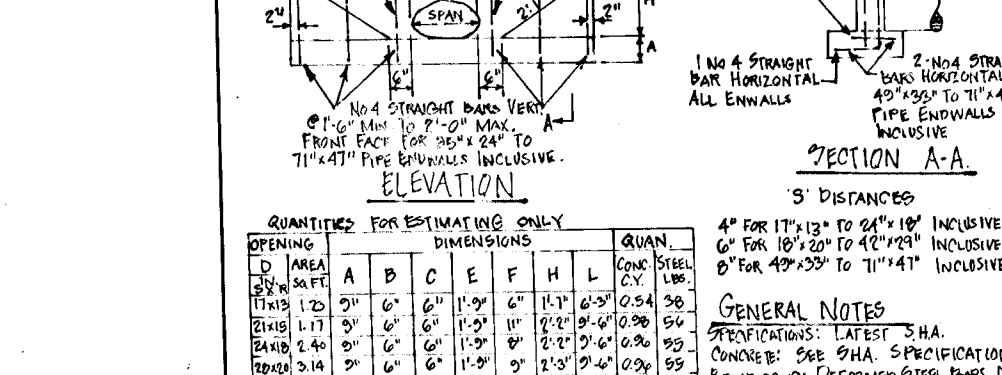
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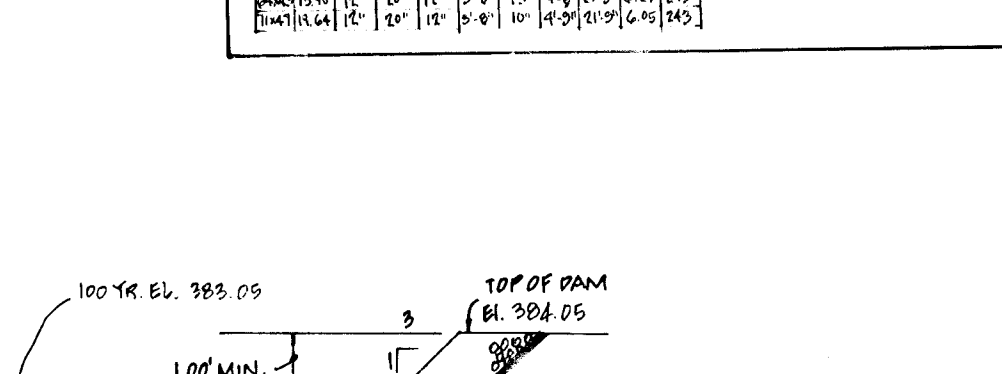
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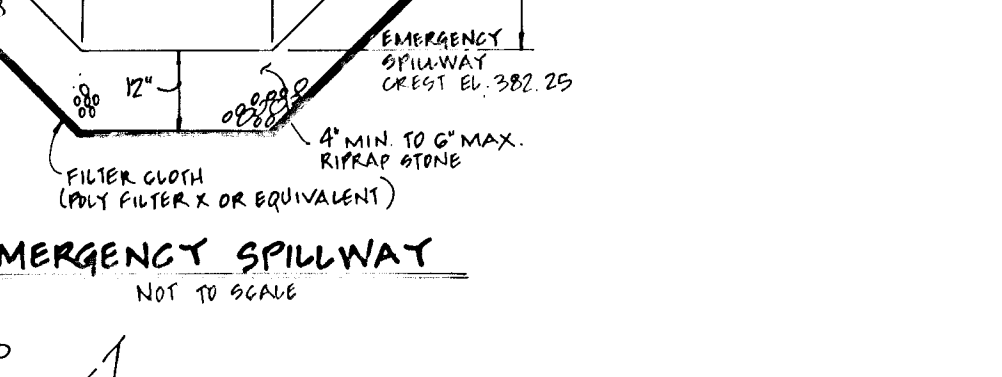
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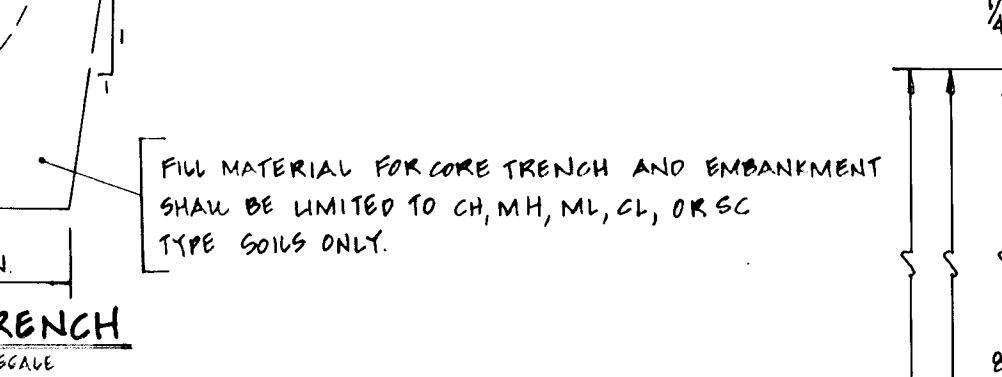
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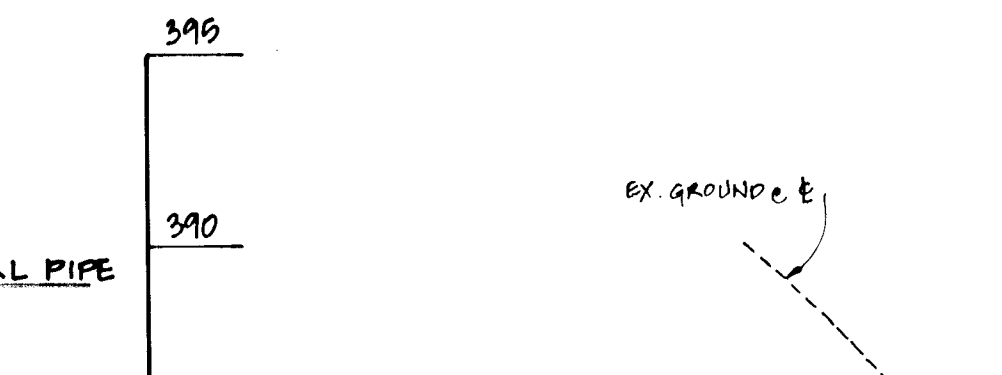
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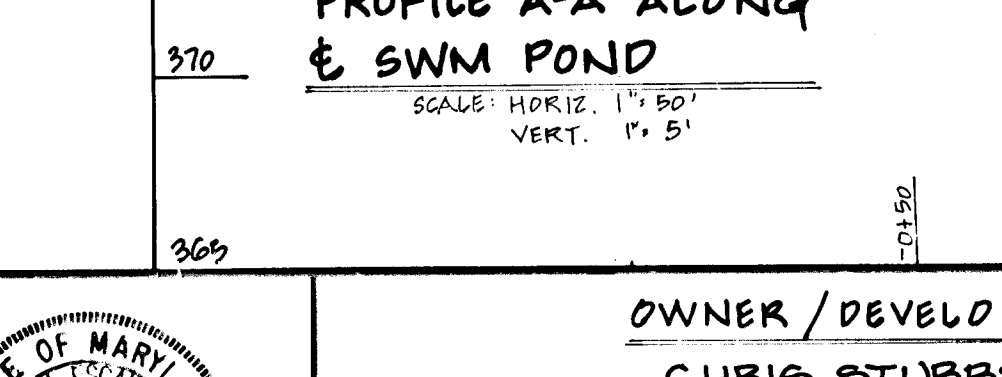
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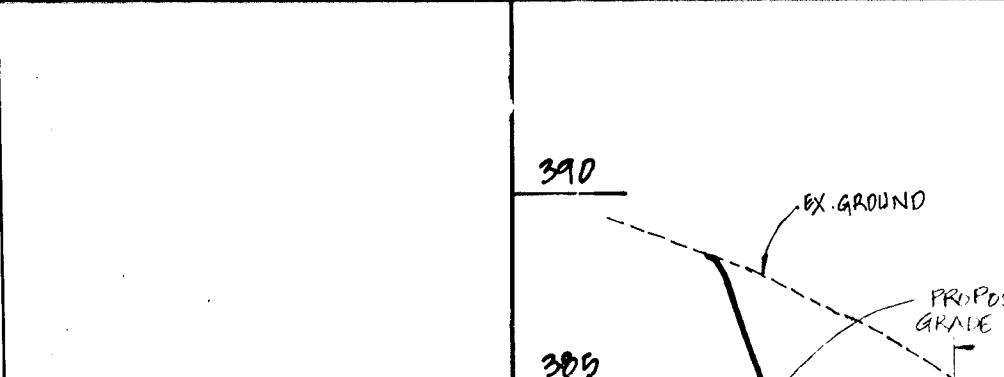
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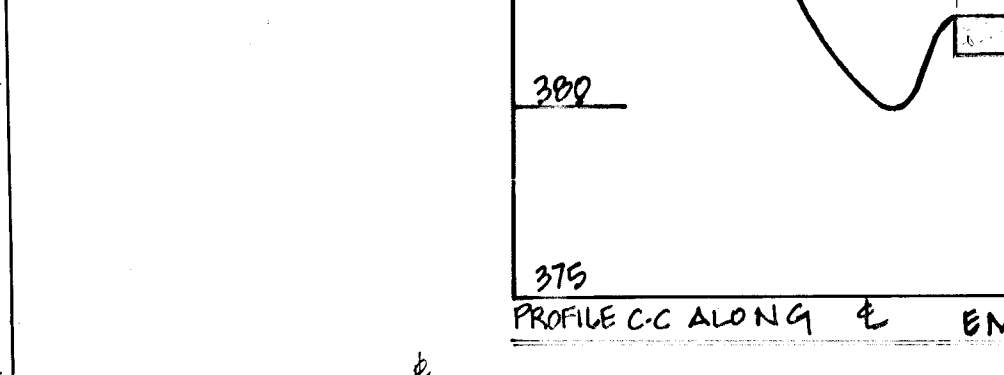
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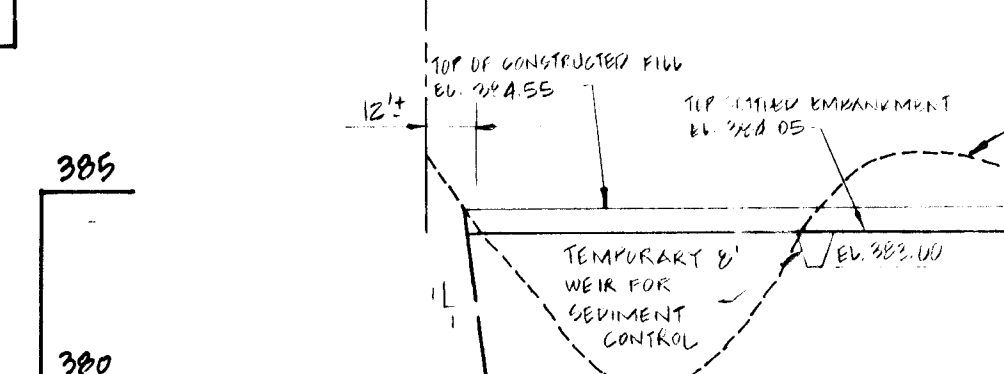
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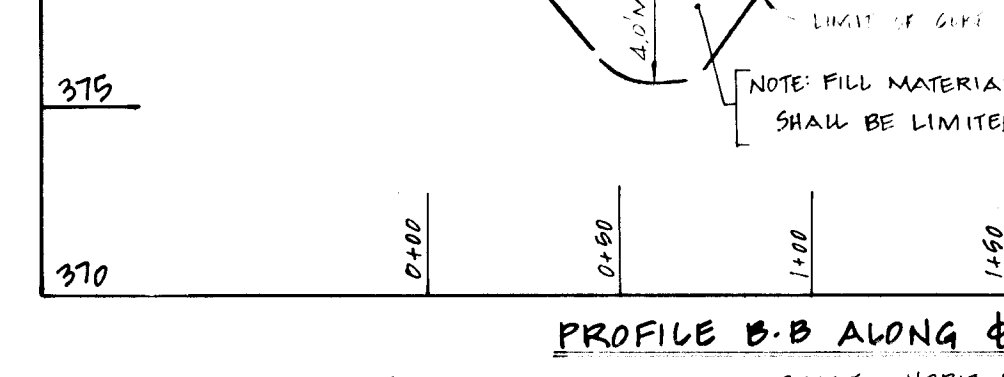
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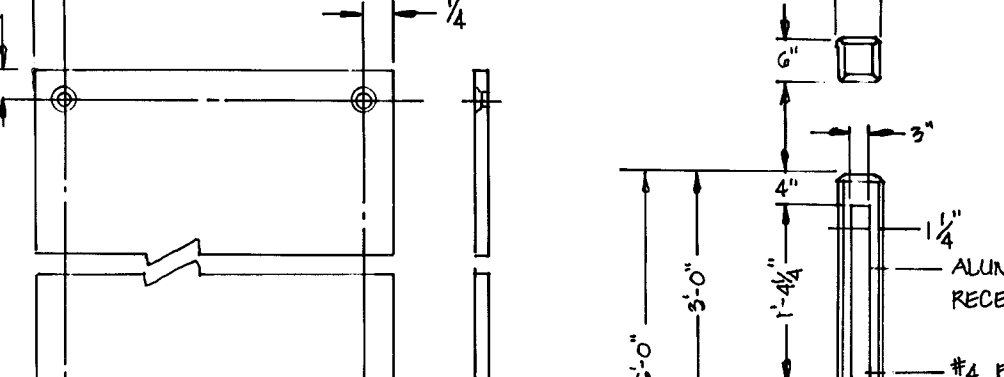
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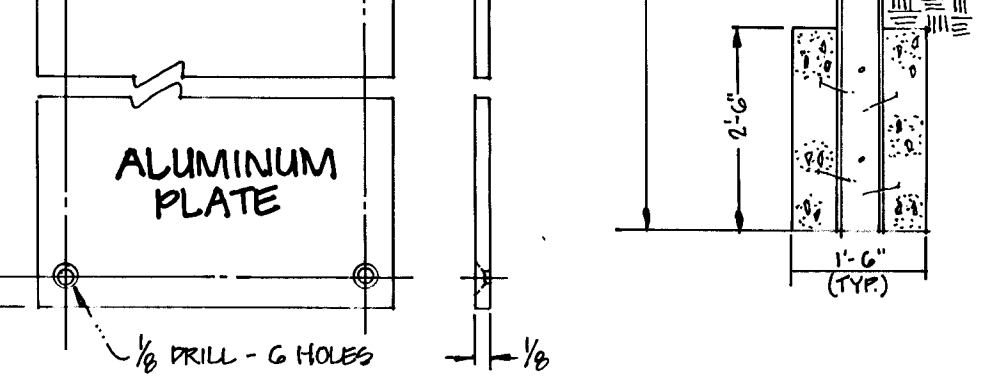
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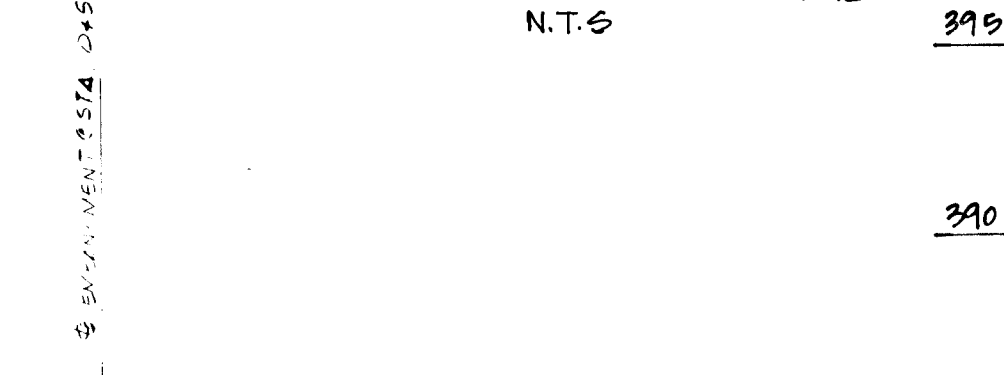
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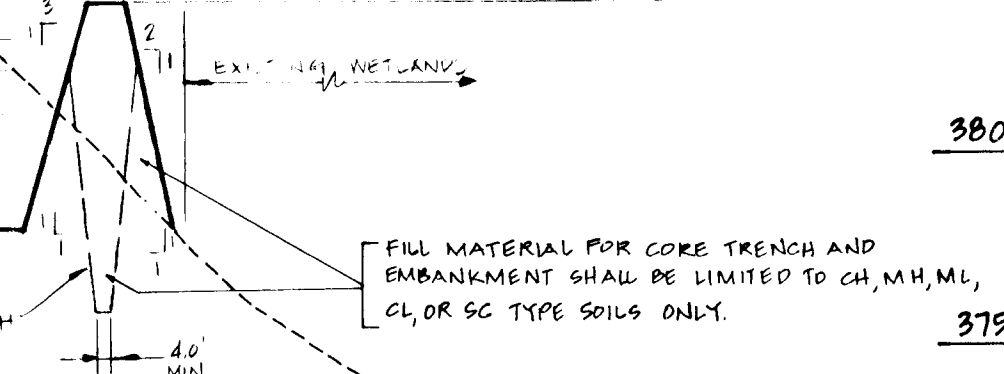
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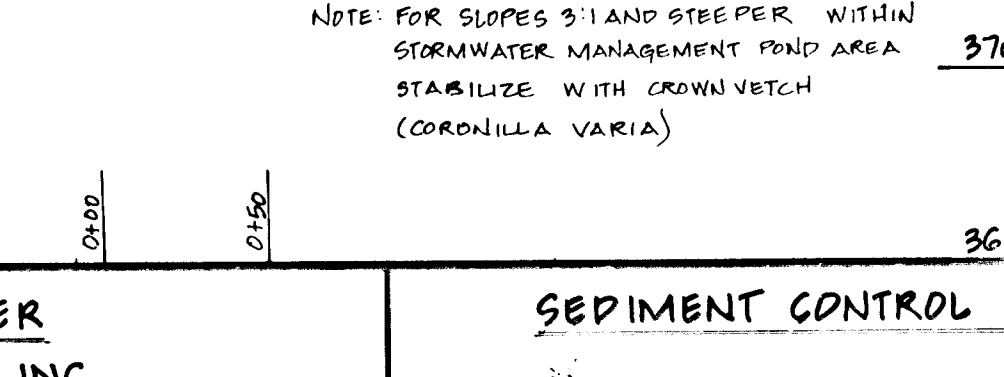
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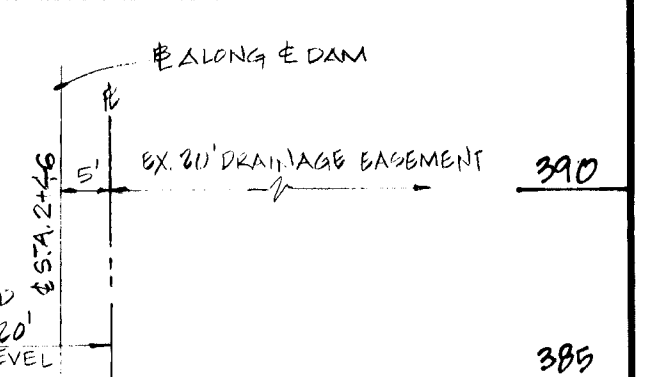
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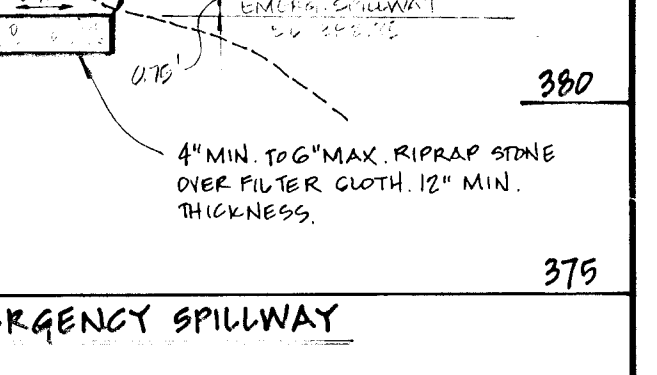
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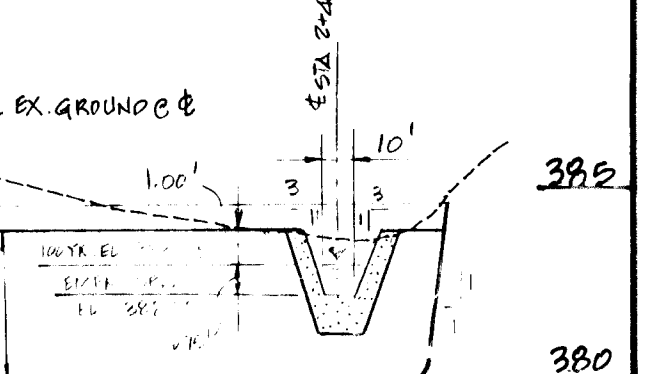
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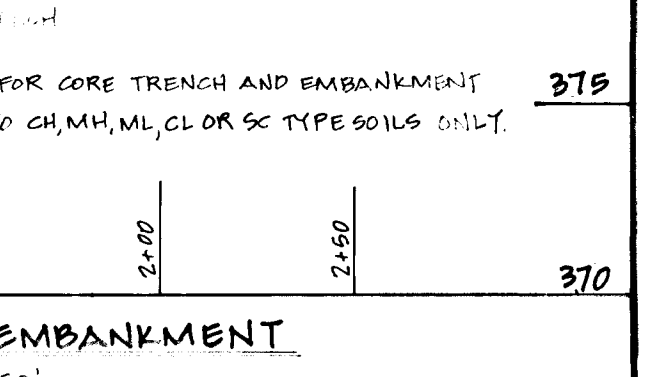
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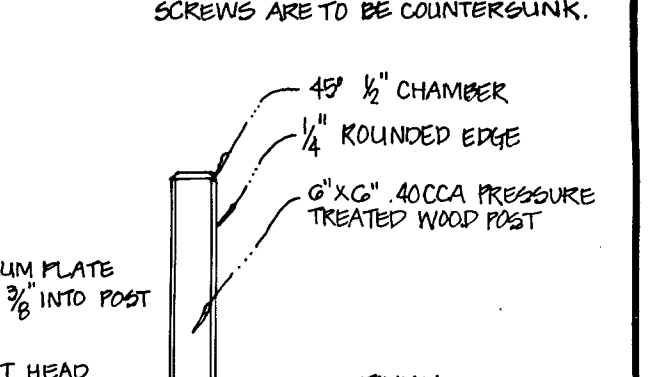
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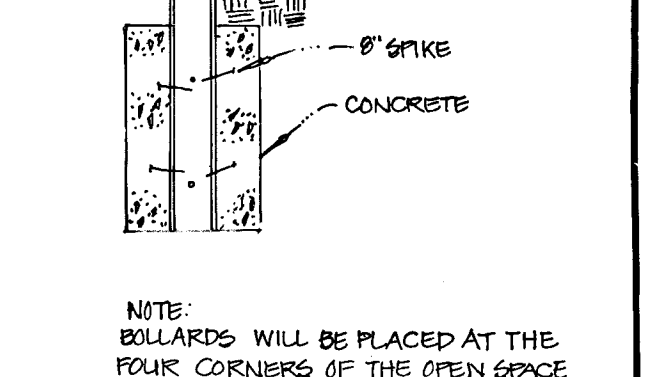
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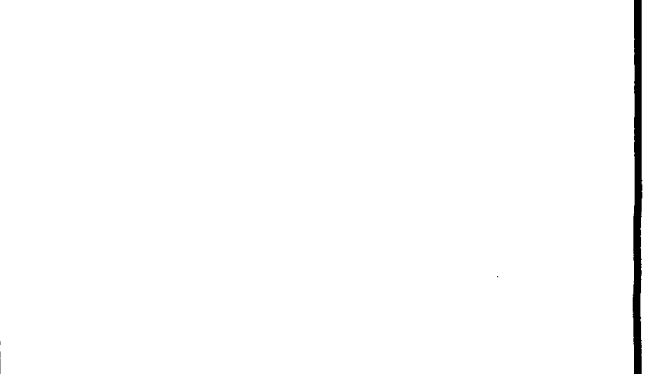
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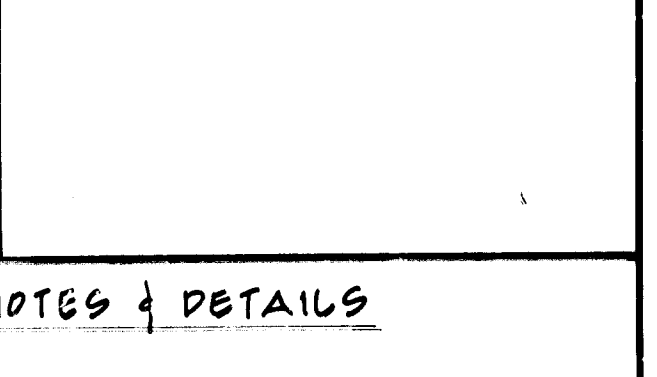
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Table with 4 columns: DESIGNED, DRAWN, CHECKED, APPROVED, DATE, BY, DESCRIPTION. Includes names like B.P. BURTON, J.A. WILSH, and dates like 7-29-88, 12/16/88, 8/10/89, 5/8/89, 6/16/92, 10/2/92.

Dewberry & Davis
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS
3300 N. RIDGE ROAD, SUITE 100
ELLCOTT CITY, MD. 21043
(301) 461-7478

OWNER / DEVELOPER
CHRIS STUBBS, INC.
P.O. BOX 2036
COLUMBIA, MD 21045
(301) 596-7403

SEDIMENT CONTROL NOTES & DETAILS
GOVE WOOD
SECTION ONE
LOT 1 THRU LOT 14
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND