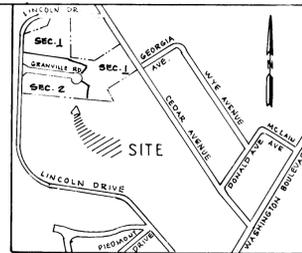


BM-1 ELEV. 260.16
X-CUT ON ROAD SIDE BONNET
BOLT OF HYDRANT
BM-2 ELEV. 272.60
X-CUT ON ROAD SIDE BONNET
BOLT OF HYDRANT



GENERAL NOTES

1. ALL STORM DRAIN AND PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD COUNTY.
2. TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD COUNTY.
3. TRENCH COMPACTION FOR STORM DRAINS, WITHIN ROAD OR STREET RIGHT-OF-WAY, LIMITS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOL. IV. (CLASS C TRENCH BEDDING TO BE USED FOR ALL STORM DRAIN, UNLESS OTHERWISE SHOWN).
4. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND, AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF CONSTRUCTION.
5. ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION.
6. ALL TRAFFIC CONTROL DEVICES, SIGNING TO BE DONE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
7. ZONING: RSC.
8. CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION / SURVEY DIVISION 24 BEFORE COMMENCING WORK AT 792-7272.
9. STREET TREES TO BE PLANTED 4' AWAY FROM THE EDGE OF THE SIDEWALK AS A PART OF THIS SUBMISSION.

SEDGHI & ASSOCIATES, LTD.
Civil Engineers - Site Planners - Surveyors
3217 Corporate Court
Ellicott City, MD 21043
(301) 760-9003

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Richard Blood 2/7/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Alan M. Tompkins 1/10/91
CHIEF, LAND DEVELOPMENT DIVISION DATE

Franklin W. Weiland 12/26/90
CHIEF, BUREAU OF HIGHWAYS DATE

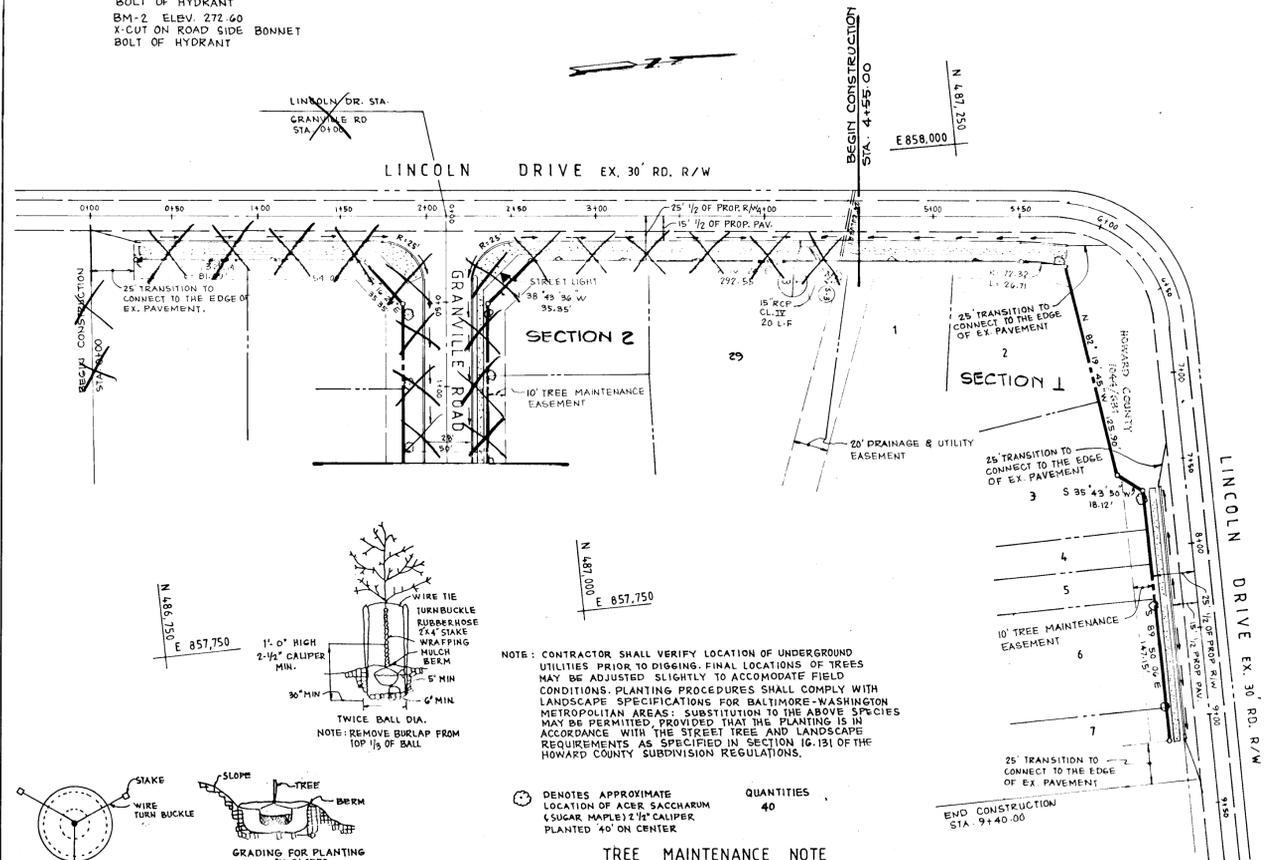
Gregory B. Scales 1-11-91
CHIEF, BUREAU OF ENGINEERING DATE

SECTION 1
CEDAR II
5TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

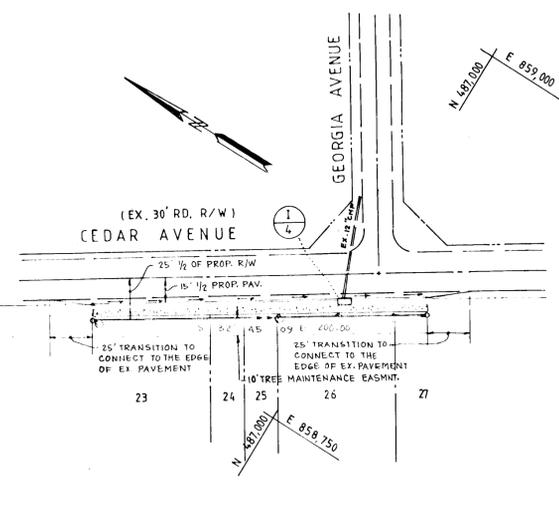
LINCOLN DRIVE
PLAN AND PROFILE
DEVELOPER
THAMES INVESTMENT GROUP LTD.
3701 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND, 21043

| | | |
|-----------------|----------------|---------------|
| SCALE: AS SHOWN | DATE: 04-20-90 | SHEET: 1 OF 7 |
| DESIGNED: MS | DRAWN: VS | CHECKED: MS |

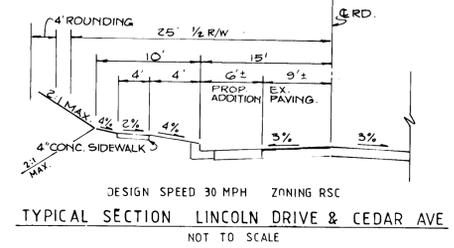
REVISION



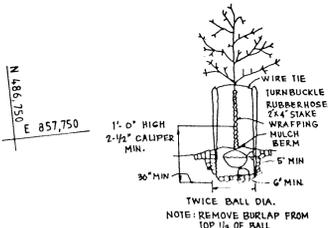
PLAN
SCALE: 1=50



STANDARD 7" COMBINATION CURB & GUTTER
N.T.S.



DESIGN SPEED 30 MPH ZONING RSC
TYPICAL SECTION LINCOLN DRIVE & CEDAR AVE
NOT TO SCALE

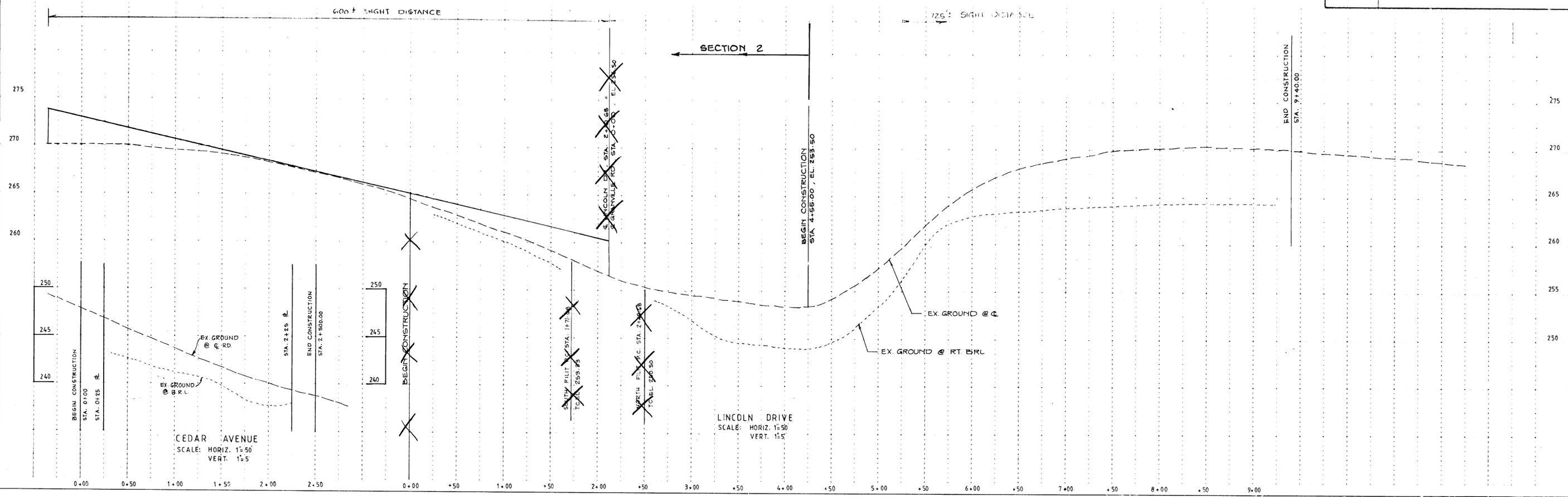


TREE PLANTING
N.T.S.

NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS. SUBSTITUTION TO THE ABOVE SPECIES MAY BE PERMITTED, PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.

TREE MAINTENANCE NOTE
TREE MAINTENANCE EASEMENT, 10' IN WIDTH, RUNNING ALONG THE EDGE OF THE PUBLIC ROAD R/W AS SHOWN ON THE PLAN IS RESERVED UPON ALL LOTS FRONTING ON THE PUBLIC R/W. THIS EASEMENT GRANTS HOWARD COUNTY THE RIGHTS TO ACCESS THE PROPERTY WHEN NECESSARY, FOR THE SPECIFIC PURPOSE OF INSTALLATION, REPAIR AND MAINTENANCE OF COUNTY OWNED TREES LOCATED WITHIN THE BOUNDARIES OF PRIVATE LOTS. NO BUILDING OR STRUCTURE OF ANY KIND SHALL BE LOCATED ON AND OVER THIS EASEMENT AREA.

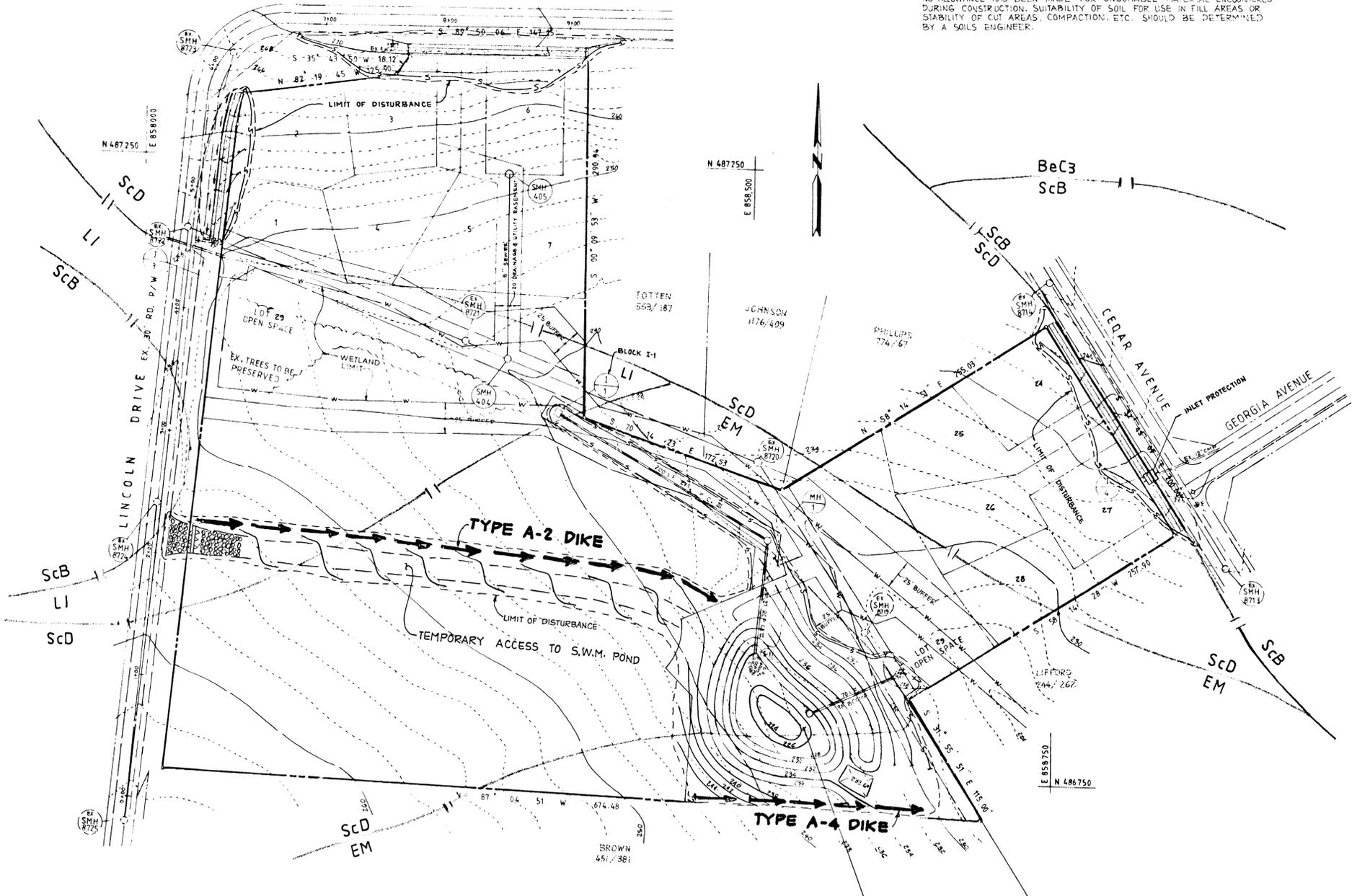
QUANTITIES
40



LINCOLN DRIVE
SCALE: HORIZ. 1=50
VERT. 1=5

1613

NOTE:
 ALL GRADES, ELEVATIONS, EARTH QUANTITIES, ETC., ARE TO BE VERIFIED BY THE CONTRACTOR. ANY EARTH QUANTITIES SHOWN OR IMPLIED ARE MEASURED TO FINAL GRADE AND ARE APPROXIMATE. NO ALLOWANCE HAS BEEN MADE FOR UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION. SUITABILITY OF SOIL FOR USE IN FILL AREAS OR STABILITY OF CUT AREAS, COMPACTION, ETC. SHOULD BE DETERMINED BY A SOILS ENGINEER.



PLAN
 SCALE: 1"=50'

DRAINAGE AREA = 2.70 AC
 STORAGE REQUIRED = 4,860 C.F.
 STORAGE PROVIDED = 5,150 C.F.
 BOTTOM ELEVATION = 224
 CREST ELEVATION = 228 (S.W.M. POND ORIFICE)
 STORAGE ELEVATION = 227
 CLEANOUT ELEVATION = 225.5
 SIDE SLOPE = 2:1 MIN.

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - NOTIFY HOWARD COUNTY CONSTRUCTION INSPECTION & PERMITS AT 792-7272, A MINIMUM OF 24 HOURS PRIOR TO START OF ANY WORK.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE.
 - CONSTRUCT STORMWATER MANAGEMENT POND AND SEDIMENT TRAP INSIDE IT.
 - INSTALL DIKES AND SILT FENCES.
 - CLEAR AND GRADE THE SITE FOR SECTION ONE ONLY.
 - CONSTRUCT STORM DRAINS AND UTILITIES.
 - BLOCK I-1 ONLY AND PROVIDE INLET PROTECTION AT I-4.
 - DURING CONSTRUCTION AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION STRUCTURES SHOWN HEREON.
 - DURING CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE SEDIMENT FROM SEDIMENT TRAP WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
 - CONSTRUCT CURB AND GUTTER AND LAY BASE COURSE.
 - CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE, STABILIZED ALL REMAINING OF DISTURBED AREA.
 - WHEN THE WHOLE SITE IS PERMANENTLY STABILIZED, CONVERT THE TEMPORARY STORMWATER MANAGEMENT POND AND SEDIMENT TRAP IN THE BOTTOM OF IT TO PERMANENT STORMWATER MANAGEMENT POND AS SHOWN ON THE S.W.M. PLANS. THE GRADES IN THE BOTTOM OF THE POND WILL BE BROUGHT TO 228.
 - WITH THE APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES.

- SEDIMENT & EROSION CONTROL LEGEND**
- STABILIZED CONSTRUCTION ENTRANCE
 - INLET PROTECTION
 - SILT FENCE
 - SOIL LINES
 - DIKE
 - LIMIT OF DISTURBANCE

HOWARD COUNTY SOIL MAP # 30

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Richard Blood 2/1/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 John M. Tenagano 1/10/91
 CHIEF, LAND DEVELOPMENT DIVISION
 Bronville W. Wakeford 12/26/90
 CHIEF, BUREAU OF HIGHWAYS
 1613
 25.000 8.000
 CHIEF, BUREAU OF ENGINEERING
 DATE

PERMIT FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 12/17/90
 THE DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 12/17/90
 HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

| NUMBER | REVISION | DATE | BY |
|--------|----------|------|----|
| | | | |
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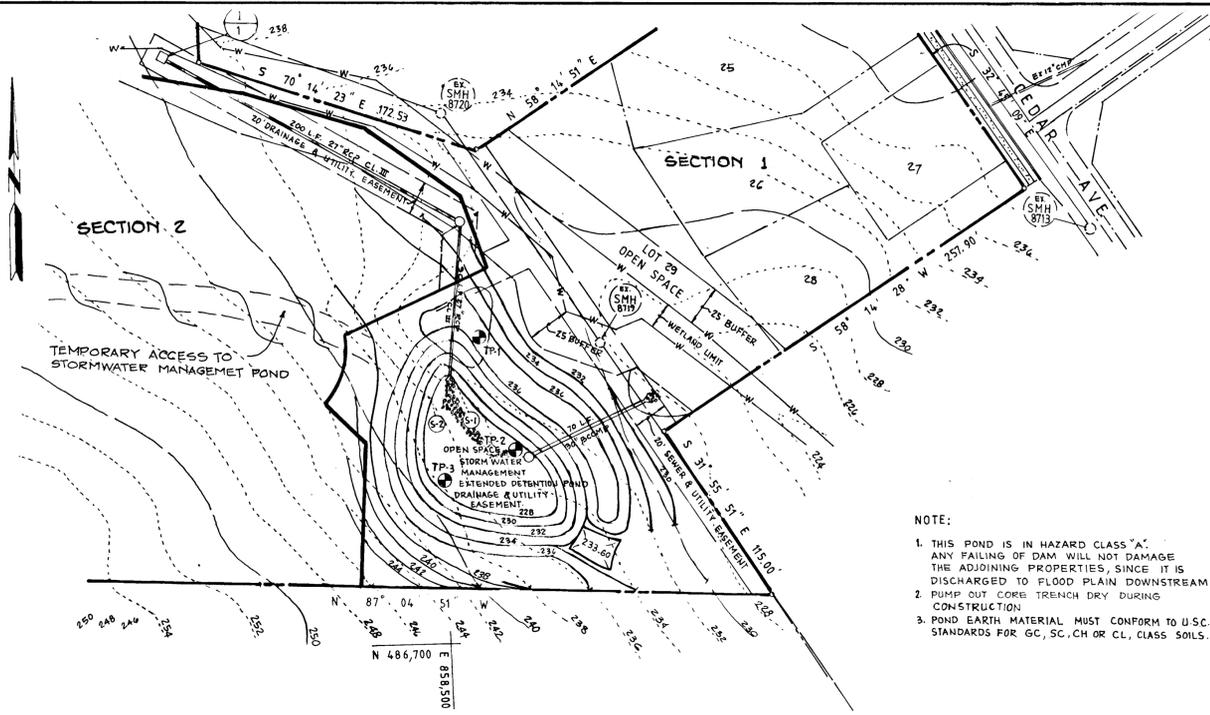
ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENT A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOILS CONSERVATION DISTRICT.
 PROFESSIONAL ENGINEER
 SIGNATURE OF ENGINEER
 DATE 11-30-90

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS DETERMINED NECESSARY.
 THAMES INVESTMENT GROUP LTD.
 by Amy Williams
 SIGNATURE OF DEVELOPER
 DATE 4-23-90

SEDGHI & ASSOCIATES, LTD.
 Civil Engineers - Site Planners - Surveyors
 3217 Corporate Court
 Ellicott City, MD 21043
 (301) 750-9003

SEDIMENT CONTROL PLAN
 CEDAR II SECTION 1
 LOTS 1-7 & 24-29
 TAX MAP 43 PARCEL 337 & 452
 6TH ELECTION DISTRICT
 HOWARD COUNTY MD
 SCALE 1/8"=1'-0" SHEET 4 OF 7
 DATE: 02-04-90

DEVELOPER
 THAMES INVESTMENT GROUP LTD.
 3701 COURT HOUSE DRIVE
 ELLICOTT CITY MD, 21043



PLAN SCALE: 1"=50'

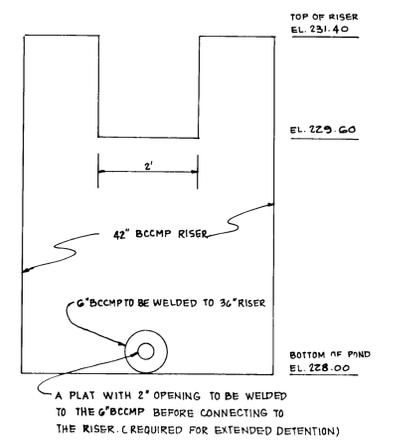
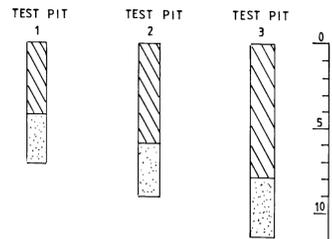
- NOTE:
1. THIS POND IS IN HAZARD CLASS "A". ANY FAILING OF DAM WILL NOT DAMAGE THE ADJOINING PROPERTIES, SINCE IT IS DISCHARGED TO FLOOD PLAIN DOWNSTREAM.
 2. PUMP OUT CORE TRENCH DRY DURING CONSTRUCTION.
 3. POND EARTH MATERIAL MUST CONFORM TO U.S.C. STANDARDS FOR GC, SC, CH OR CL, CLASS SOILS.

TEST PIT SUMMARY

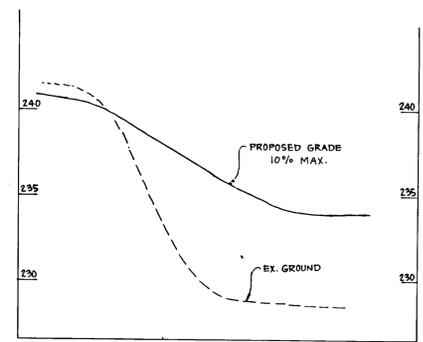
| TEST PIT NO | STRATA I | DEPTH, FT. | STRATA II | DEPTH, FT. | ESTIMATED TOPSOIL THICKNESS |
|-------------|----------|------------|-----------|------------|-----------------------------|
| 1 | | 0.5-4 | | 4-7 | 6" |
| 2 | | 0-6 | | 6-9 | 6" |
| 3 | | 0-8 | | 8-11 | 6" |

STRATA DESCRIPTIONS (BY VISUAL CLASSIFICATION)

I = SILTY CLAY (CL-CH)
 II = WEATHERED ROCK (COBBLES, BOULDERS)

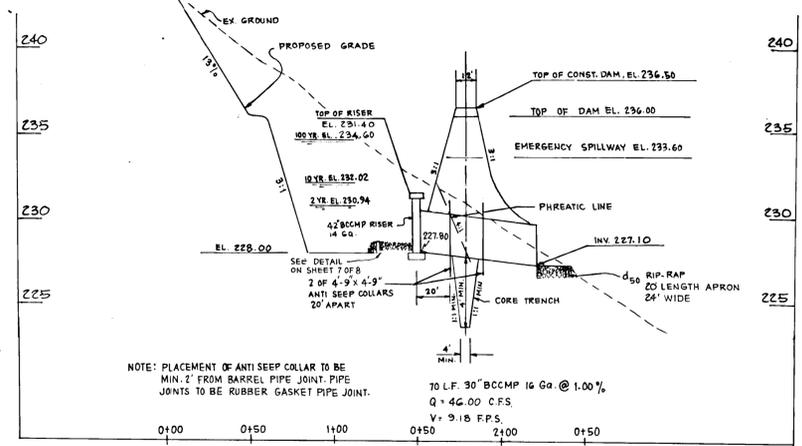


PERMANENT S.W.M. POND RISER DETAIL N.T.S.



PROFILE ACCESS TO STORMWATER MANAGEMENT POND SCALE: HORIZ. 1"=50' VERT. 1"=5'

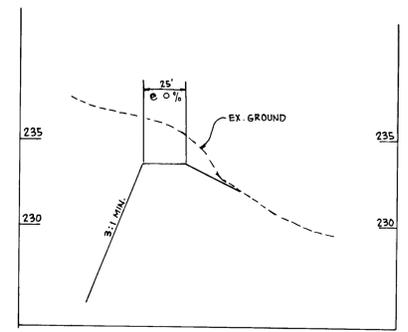
NOTE: ACCESS TO BE 12' WIDE WITH CR-6 COVERED WITH 6" TOPSOIL, SEEDED & MULCHED



PERMANENT S.W.M. POND SECTION THROUGH DAM

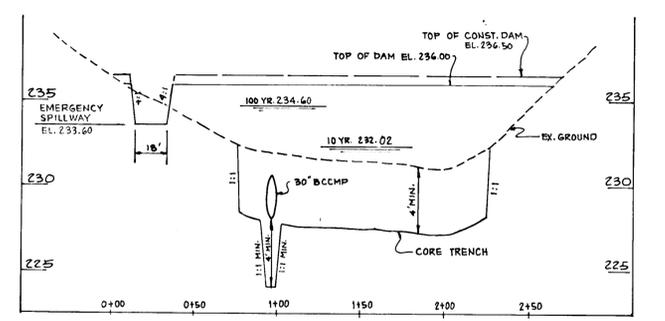
SCALE: HORIZ. 1"=50' VERT. 1"=5'

NOTE: THE PROPOSED POND IS ALSO USED AS TEMPORARY STORMWATER MANAGEMENT FACILITY AT THE TIME OF CONSTRUCTION. THE VOLUME OF POND WILL STAY THE SAME FOR BOTH FACILITIES. THE WATER SURFACE ELEVATIONS FOR TEMPORARY FACILITY IS SHOWN BELOW. (FOR DESIGN SEE COMPUTATIONS).



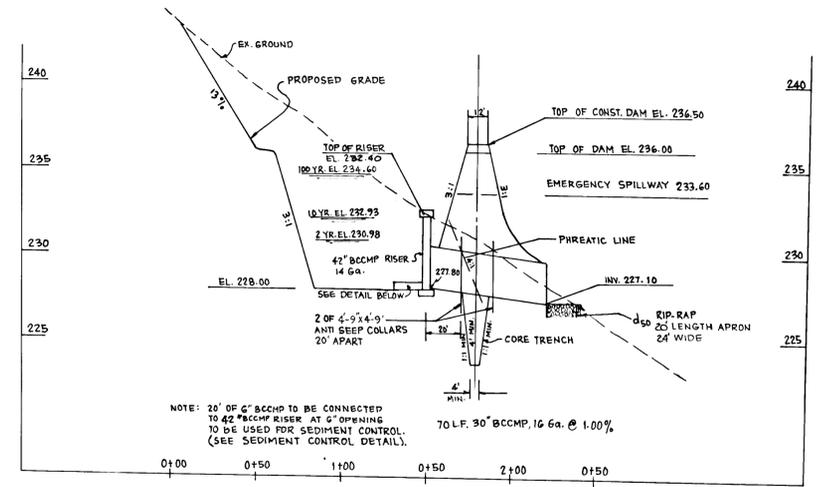
EMERGENCY SPILLWAY PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=5'



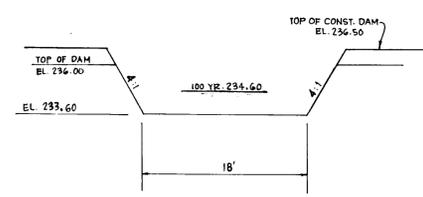
PROFILE ALONG C OF DAM LOOKING UPSTREAM

SCALE: HORIZ. 1"=50' VERT. 1"=5'



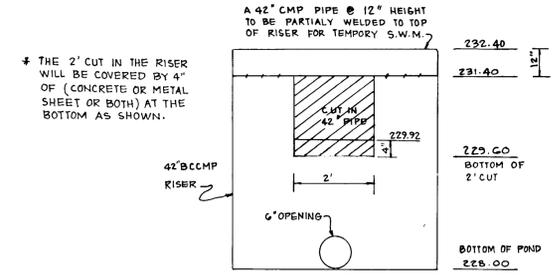
TEMPORARY S.W.M. POND SECTION THROUGH DAM

SCALE: HORIZ. 1"=50' VERT. 1"=5'



EMERGENCY SPILLWAY

NOT TO SCALE



TEMPORARY S.W.M. POND RISER DETAIL N.T.S.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Richard Blood 2/2/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Ola M. Tompkins 1/30/91
 CHIEF, LAND DEVELOPMENT DIVISION

Granville W. Waldland 12/26/90
 CHIEF, BUREAU OF HIGHWAYS

William E. Papp 1-11-91
 CHIEF, BUREAU OF ENGINEERING

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] 12/17/90
 LOCAL CONSERVATION SERVICE DATE

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

[Signature] 12/17/90
 HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

| NUMBER | REVISION | DATE | BY |
|--------|----------|------|----|
| | | | |
| | | | |

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT 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.

Thomas J. [Signature] 4-23-90
 SIGNATURE OF DEVELOPER DATE

BY THE ENGINEER:

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

[Signature] 11-30-90
 SIGNATURE OF ENGINEER DATE

SEDGHI & ASSOCIATES, LTD.
 Civil Engineers • Site Planners • Surveyors
 3217 Corporate Court
 Ellicott City, MD 21043
 (301) 750-9003

STORMWATER MANAGEMENT CEDAR-II, SECTION 1
 LOTS 1-7 & 24-29
 TAX MAP 43, PARCEL 397 & 452
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MD.
 SCALE: 1"=50' SHEETS OF 7
 DATE: 04-20-90

DEVELOPER
 THAMES INVESTMENT GROUP LTD.
 3710 COURT HOUSE DRIVE
 ELLICOTT CITY, MD. 21043

1613

