

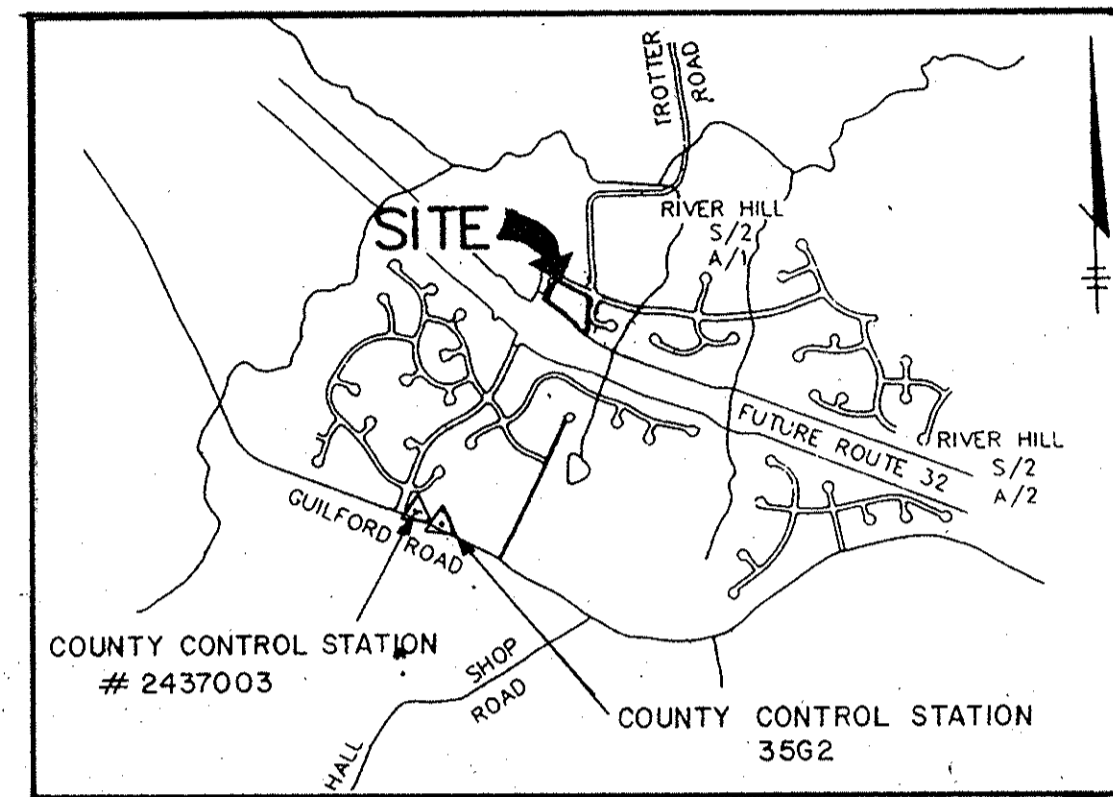
GENERAL NOTES

1. SURVEY BY THE RBA GROUP 10/4/93
2 FOOT CONTOUR INTERVAL
BENCH MARKS: COUNTY #2437003- ELEV. 472.12 (CONC. MONUMENT)
COUNTY #3562- ELEV. 477.55 (CONC. MONUMENT)
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
3. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S ACTIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND MAINTAIN MINIMUM COVER IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
6. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST 48 HOURS BEFORE THE START OF WORK SHOWN ON THESE PLANS:
"MISS" UTILITY 1-800-257-7777
BALTIMORE GAS & ELECTRIC CO. (410) 954-6260
C & P TELEPHONE CO. (410) 393-3648
7. FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NOT NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
8. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR CONSTRUCTION.
9. ALL UTILITIES ARE TO BE RETAINED UNLESS MARKED OTHERWISE AND APPURTENANCES ARE TO BE ADJUSTED TO FINISHED GRADE.
10. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 24 HOURS IN ADVANCE OF THE COMMENCEMENT OF WORK.
11. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT ALL CONSTRUCTION AND VERIFY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL), AND DIMENSIONS.
12. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY THE ENGINEER. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
13. ALL FILL SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY HERBST AND ASSOCIATES MARCH 28, 1994.
14. THERE ARE NO WETLANDS, STREAM BUFFERS OR 100 YEAR FLOODPLAIN ON THE SITE.
15. THE LOCATION OF OFF-SITE UTILITIES WAS TAKEN FROM PLANS BY RIEMER MUEGGE AND ASSOCIATES, INC. FOR F-94-61 AND FROM THE PRELIMINARY WATER AND SEWER PLAN FOR VRH SECTION 2/AREA 3 PHASE 2.
16. TRAFFIC CONTROL SIGNS AND MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
17. STORMWATER MANAGEMENT CONTROL IS PROVIDED UNDER F-93-18 (TEMPORARY) AND F-94-108 (PERMANENT). QUALITY CONTROL IS PROVIDED ON SITE BY INFILTRATION OF THE FIRST 1/2 INCH OF RUNOFF. PRE-TREATMENT IS PROVIDED BY A WATER QUALITY STRUCTURE (WQ-1). ALL STORMWATER MANAGEMENT SHALL BE PRIVATELY MAINTAINED. REFER TO OPERATION AND MAINTENANCE SCHEDULE ON SHEET 9.
18. ADJUSTMENTS TO THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS PRIOR TO SUCH ADJUSTMENTS. SEE THE EROSION AND SEDIMENT CONTROL PLAN FOR ADDITIONAL NOTES.
19. IN ACCORDANCE WITH FDP NO. 209 PART 3, NO STRUCTURE IN OPEN SPACE LAND USE SHALL BE LOCATED WITHIN 30 FEET OF ANY PUBLIC STREET, ROAD OR HIGHWAY, OR WITHIN 25 FEET OF ANY PROPERTY LINE, EXCEPT, HOWEVER, IF SHOWN ON AN SDP APPROVED BY THE HOWARD COUNTY PLANNING BOARD. FURTHER, NO MORE THAN 10% OF THE OPEN SPACE LAND WITHIN THIS FDP MAY BE COVERED WITH BUILDINGS OR MAJOR STRUCTURES EXCEPT AS APPROVED BY THE HOWARD COUNTY PLANNING BOARD.
20. PROPOSED WATER AND SEWER LINES ARE PRIVATE. THESE AND ALL IMPROVEMENTS SHALL BE MAINTAINED BY THE OWNER.

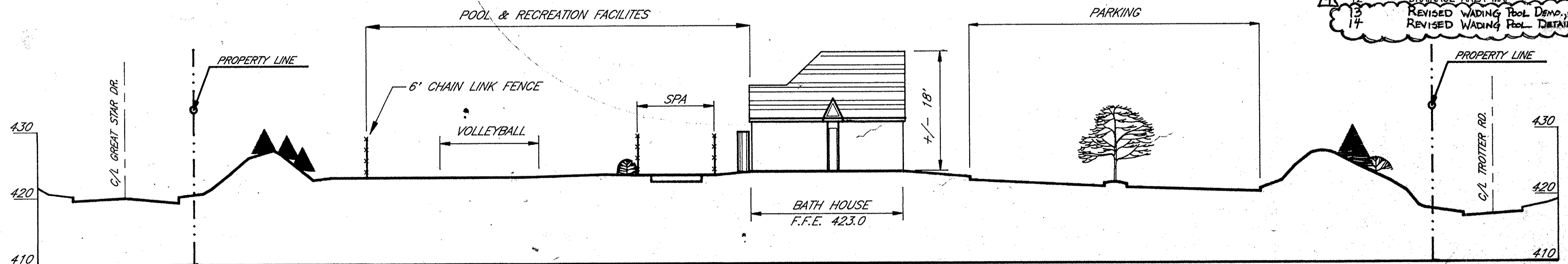
RIVER HILL COMMUNITY POOL

SITE ANALYSIS

1. AREA OF PARCEL: 3.786 AC. (164,922 SQ. FT.)
CREDITED: 3.097 AC (134,905 SQ. FT.)
NON-CREDITED: 0.689 AC (30,017 SQ. FT.)
 2. ZONING: NEW TOWN- OPEN SPACE
FDP NO: 209 PART 3
 3. PROPOSED USE OF STRUCTURE:
BATH HOUSE TO CONTAIN EQUIPMENT ROOM, OFFICES
SNACK BAR, RESTROOMS
 4. PROPOSED FLOOR AREA: 3,683 SQ. FT.
 5. PROPOSED PARKING:
TYPICAL STALLS 54 74
BARRIER FREE 3
TOTAL 57 77
- FDP 209 PART 3 STATES THAT NO PARKING REQUIREMENTS ARE IMPOSED ON LAND DEVOTED TO OPEN SPACE WITHIN THE FDP. PARKING REQUIREMENTS WILL BE EVALUATED AND ESTABLISHED BY THE PLANNING BOARD IN CONJUNCTION WITH THEIR REVIEW OF THE SDP. SECTION 133.D.6 REQUIRES ONE SPACE PER FOUR USERS. DATA FROM EXISTING POOLS:
AVERAGE NUMBER OF POOL USES PER PARKING SPACE PROVIDED= 816
EXPECTED AVERAGE ANNUAL USAGE AT RIVER HILL= 26,000
PARKING REQUIREMENT FOR RIVER HILL POOL: 26,000/616= 42 SPACES
6. GREEN SPACE TO REMAIN: ~~116,868~~ SQ. FT. 113,628
 7. BUILDING COVERAGE: 10,823 SQ. FT. (INCLUDES POOLS)
6.6% OF GROSS AREA
 8. PARKING AREAS (INCLUDING ISLES): ~~23,200~~ SQ. FT. 26,440
 9. OTHER IMPERVIOUS AREAS: 0.32 AC. (14,031 SQ. FT.)
8.5% OF GROSS AREA
 10. TOTAL LIMITS OF DISTURBANCE: 3.786 AC.
 11. NUMBER OF LANDSCAPE ISLAND REQUIRED: 3
PROVIDED: 5

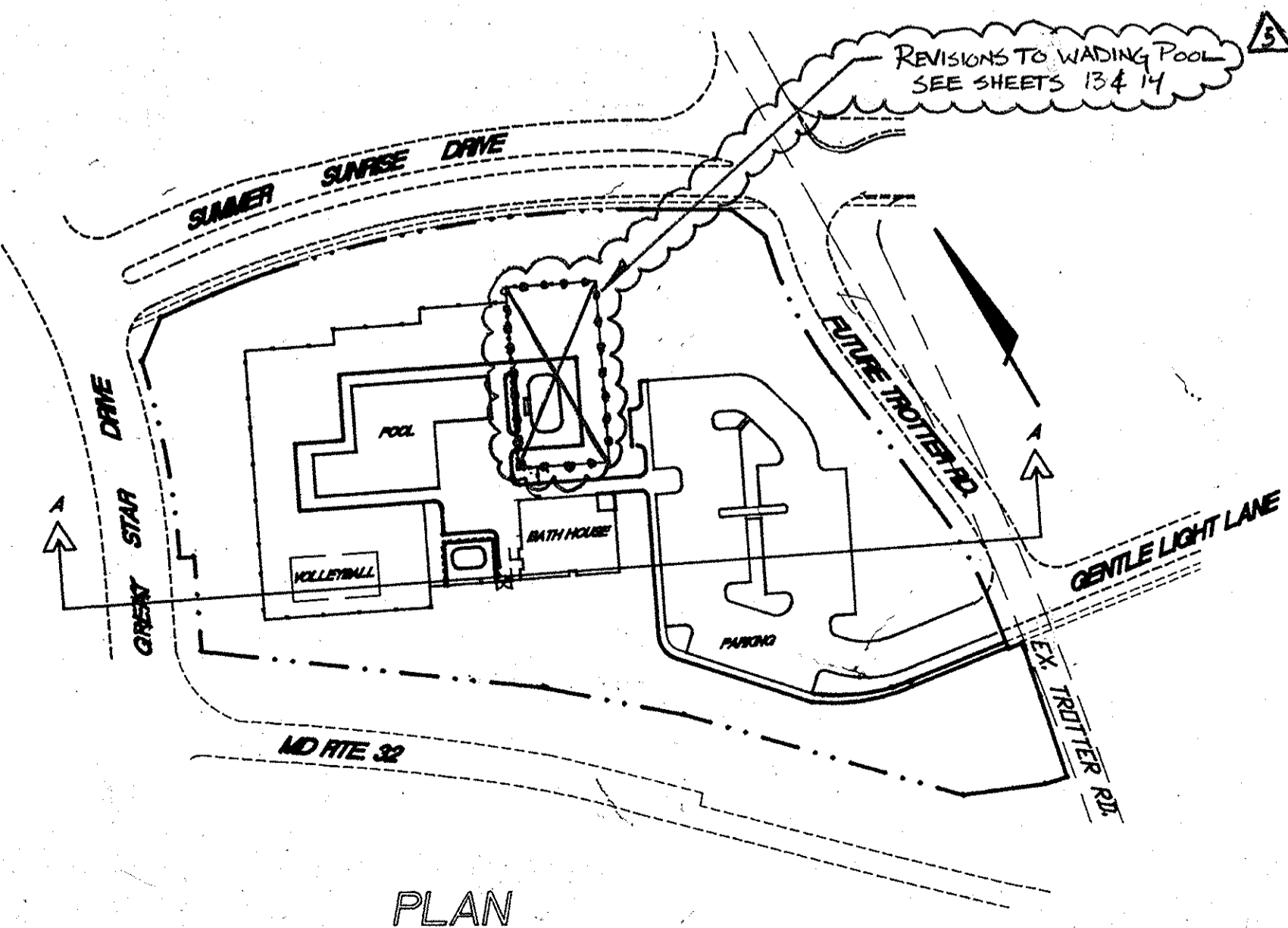


VICINITY MAP
SCALE: 1"=2000'



SECTION A-A

SCALE: HORIZ. 1"=30'
VERT. 1"=10'



PLAN

APPROVED FOR PUBLIC WATER PUBLIC SEWERAGE SYSTEMS STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	11/2/94 DATE
APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING	11/21/94 DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	11/18/94 DATE
OWNER HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY 10225 LINDSEY CIRCLE COLUMBIA, MARYLAND 21044 (410) 992-6370	
DEVELOPER COLUMBIA ASSOCIATION 10225 LINDSEY CIRCLE COLUMBIA, MARYLAND 21044 (410) 715-3000	

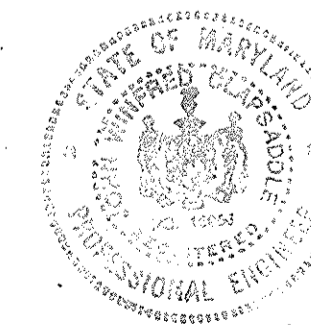
SHEET INDEX

SHEET NO.	TITLE
1	TITLE SHEET
2	EXISTING CONDITIONS PLAN
3	SITE LAYOUT & UTILITIES
4	GRADING PLAN
5	SEDIMENT CONTROL PLAN
6	LANDSCAPE PLAN
7	LANDSCAPE DETAILS
8	PROFILES
9	DETAILS
10	DETAILS
11	SEDIMENT CONTROL DETAILS
12	DRAINAGE AREA MAP
13	REVISED WADING POOL DEMO, GRADING PLAN
14	REVISED WADING POOL DETAILS

ADDRESS CHART	
LOT	STREET ADDRESS
105	6330 TROTTER ROAD

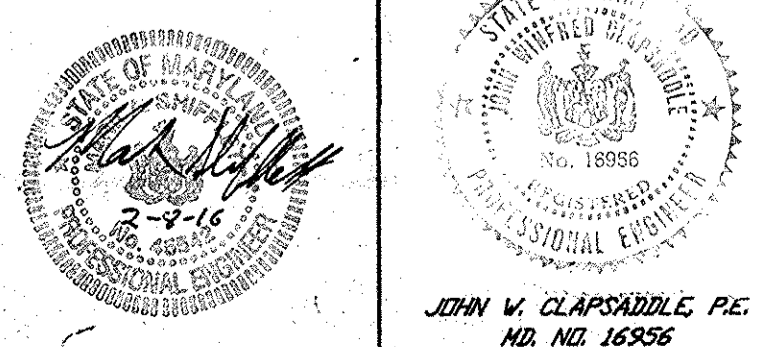
SUBDIVISION NAME VILLAGE OF RIVER HILL	SECTION/AREA Phase 1 105	LOT/PARCEL 105
PLAT/BLOCK 11302 14	ZONE/TAX/ZONE NT 35	MAR/elec DIST/ CENSUS TR 5 6055
WATER CODE	SEWER CODE	

I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.



10/24/94
11/3/95

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 43343 EXP. DATE 6-10-16



no.	description	date	prepared by
1	Rev. PARKING	12/96	
2	REVISE WADING POOL	12/16	
3	ADD SHEETS 13 & 14		

RBA ENGINEERS + ARCHITECTS + PLANNERS
5560 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410-730-7930

TITLE SHEET		SCALE AS SHOWN	
RIVER HILL NEIGHBORHOOD POOL		DRAWN ELB	CHECKED JWC
HOWARD COUNTY		PROJ. NO. 10905	DATE 9/94
MARYLAND		SHEET 1	OF 124

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

DIRECTOR: *James J. Slum* DATE: 11/21/94
 CHIEF, BUREAU OF ENGINEERING: *Robert J. Slum* DATE: 11/21/94

APPROVED FOR HOWARD DEPARTMENT OF PLANNING AND ZONING

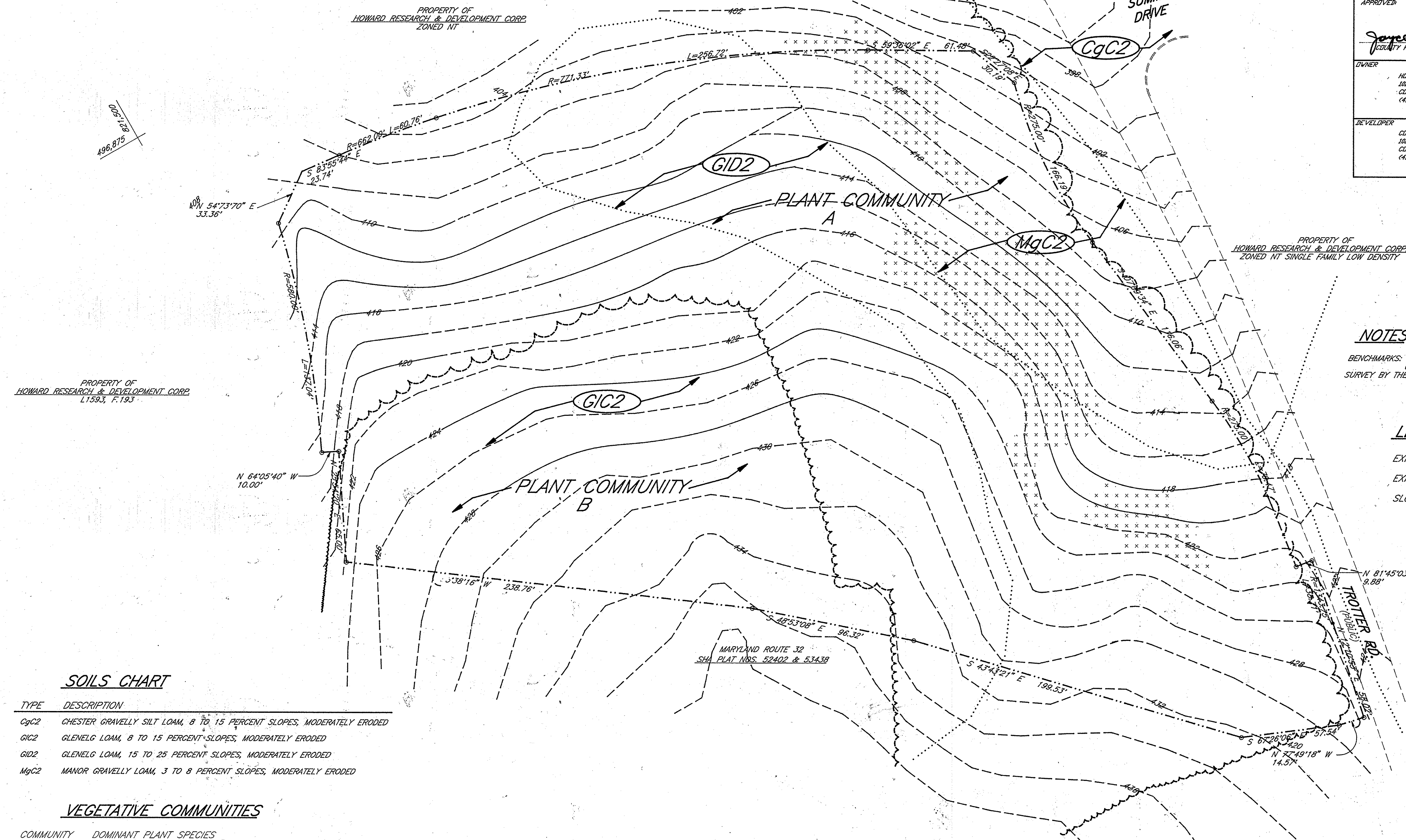
DIRECTOR: *James J. Slum* DATE: 11/21/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: *John A. Smith* DATE: 11/10/94

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

OWNER: HOWARD RESEARCH & DEVELOPMENT LAND COMPANY
 12278 LITTLE PATRICKS PKWY
 COLUMBIA, MARYLAND 21044
 (410) 292-6370

DEVELOPER: COLUMBIA ASSOCIATION
 10221 WINDCOPIN CIRCLE
 COLUMBIA, MARYLAND 21044
 (410) 715-3000

SCALE: 1"=30'



NOTES

BENCHMARKS: COUNTY NO. 2437003- ELEV. 472.12 (CONG. MONUMENT)
 COUNTY NO. 3502- ELEV. 477.55
 SURVEY BY THE RBA GROUP 10/4/93

LEGEND

- EXISTING CONTOUR
- EXISTING TREE LINE
- SLOPES 15-24.9%

SOILS CHART

TYPE	DESCRIPTION
G1C2	CHESTER GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
G2C2	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
G1D2	GLENELG LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED
M1C2	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED

VEGETATIVE COMMUNITIES

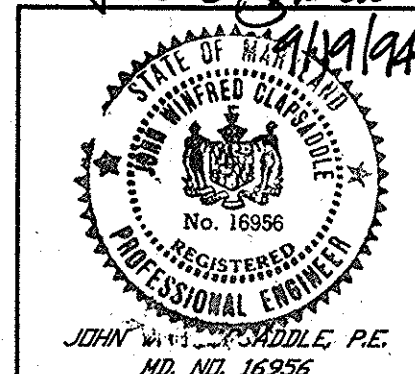
COMMUNITY	DOMINANT PLANT SPECIES
A	BLACK CHERRY, SASSAFRASS, TULIP POPLAR, RED MAPLE, BLACK LOCUST, DOGWOOD, DOGWOOD, POISON IVY
B	RUSSIAN OLIVE, SASSAFRASS, MULTIFLORA ROSE, HONEYSUCKLE, POISON IVY

APPROVED PLANNING BOARD OF HOWARD COUNTY
 DATE: 9/1/94
 CAH

ADDRESS CHART

LOT	STREET ADDRESS
105	6330 TROTTER ROAD

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
VILLAGE OF RIVER HILL	PHASE 1	105
PLAT/BLOCK	ZONE/TAX/ZONE	MAP/ELEC. DIST./CENSUS TR.
11302 14 NT 35	5	6055



REVISIONS

NO.	DESCRIPTION	DATE
1	REVISE WADING POOL ADD SHEETS 13 & 14	02/16

PREPARED BY: **RBA** ENGINEERS • ARCHITECTS • PLANNERS
 5569 SYBERRY PLACE SUITE 300
 COLUMBIA, MARYLAND 21044
 410-720-7920

EXISTING CONDITIONS

RIVER HILL NEIGHBORHOOD POOL

HOWARD COUNTY MARYLAND

SCALE AS SHOWN	CHECKED JVC
DRAWN ELP	DATE 9/94
PROJ. NO. J0303	SHEET 2 OF 124

PHILLIPS-SPRING

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

DIRECTOR: *James P. Brown* 11/9/94
DATE: 11/2/94

CHIEF, BUREAU OF ENGINEERING: *Richard E. Brown* 11/2/94
DATE: 11/2/94

APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: *Joseph A. Rutter* 11/2/94
DATE: 11/2/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: *Chia Simmonya* 11/16/94
DATE: 11/16/94

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

COUNTY HEALTH OFFICER: *Joyce M. Boyd* 11/15/94
DATE: 11/15/94

OWNER: HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10225 LITTLE PATENT PKWY
COLUMBIA, MARYLAND 21044
(410) 592-6370

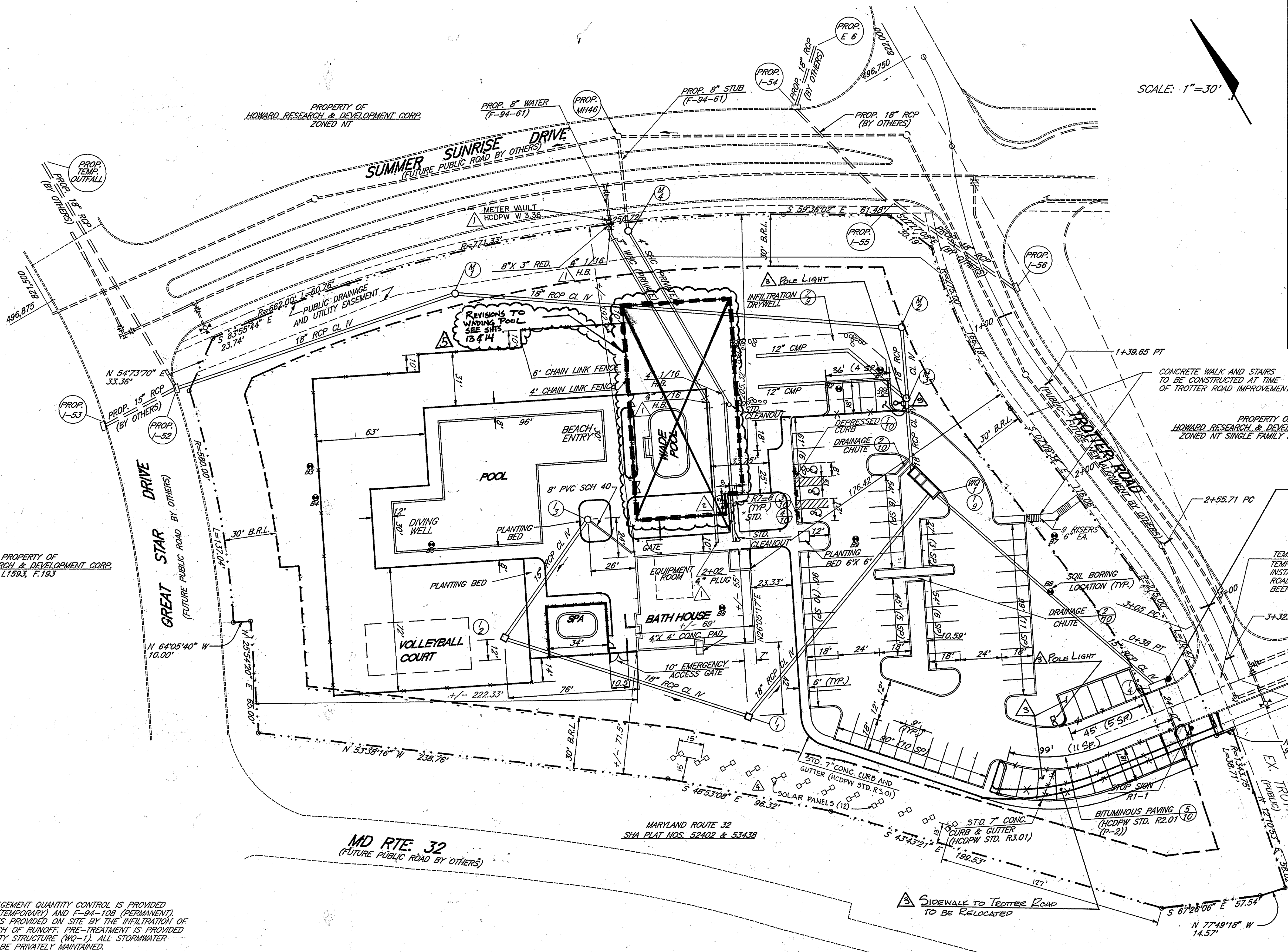
DEVELOPER: COLUMBIA ASSOCIATION
10225 LONDON CIRCLE
COLUMBIA, MARYLAND 21044
(410) 715-3000

SCALE: 1"=30'

PROPERTY OF HOWARD RESEARCH & DEVELOPMENT CORP. ZONED NT

PROPERTY OF HOWARD RESEARCH & DEVELOPMENT CORP. L1593, F.193

PROPERTY OF HOWARD RESEARCH & DEVELOPMENT CORP. ZONED NT SINGLE FAMILY LOW DENSITY



Sign: "WATCH FOR CARS BACKING INTO TRAFFIC". SIGN LOCATION TO BE DETERMINED IN FIELD.

TEMPORARY CONNECTION TO BE INSTALLED IN THE EVENT TROTTER ROAD IMPROVEMENTS HAVE NOT BEEN COMPLETED.

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 9/1/94
COA

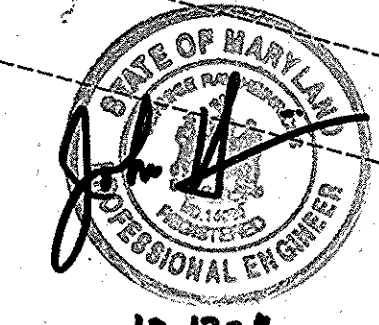
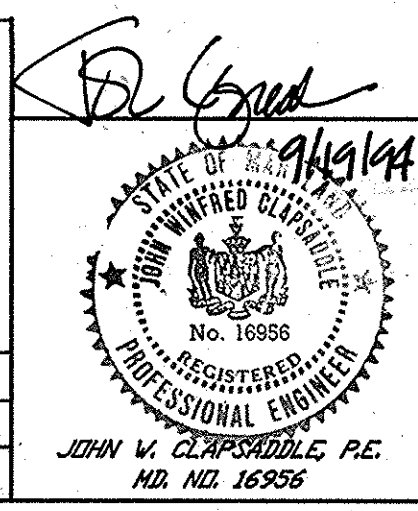
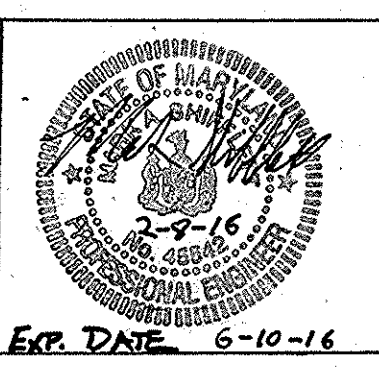
NOTES

- STORMWATER MANAGEMENT QUANTITY CONTROL IS PROVIDED UNDER F-93-18 (TEMPORARY) AND F-94-108 (PERMANENT). QUALITY CONTROL IS PROVIDED ON SITE BY THE INFILTRATION OF THE FIRST 1/2 INCH OF RUNOFF. PRE-TREATMENT IS PROVIDED BY A WATER QUALITY STRUCTURE (WQ-1). ALL STORMWATER MANAGEMENT WILL BE PRIVATELY MAINTAINED.
- THE CONSTRUCTION OF SUMMER SUNRISE DRIVE AND GREAT STAR DRIVE (INCLUDING WATER, SEWER AND STORM DRAIN IMPROVEMENTS) ARE PROPOSED UNDER F-94-61 AS SHOWN ON PLANS BY RIEMER MUEGGE AND ASSOCIATES, INC. TROTTER ROAD RELOCATION AND GENTLE LIGHT LANE IMPROVEMENTS ARE PROPOSED UNDER P-94-23 SIDEWALK ALONG TROTTER ROAD WILL BE CONSTRUCTED AT TIME OF TROTTER ROAD IMPROVEMENTS.
- BUILDING WILL HAVE AN INSIDE METER.
- REFER TO THE LANDSCAPE PLAN (SHEET 6 OF 12) FOR ALL DETAILS WITHIN POOL AREA NOT SHOWN.
- ALL ISLAND RADII ARE 5' UNLESS NOTED OTHERWISE.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 45542. EXP. DATE: 6-10-16

DATE	NO.	REVISION
9-6-11	1	ADDED SOLAR PANELS ALONG MD. ROUTE 92



NO.	DESCRIPTION	DATE
1	REV. WHO SIZE SHOW METER VAULT	12/94
2	ADDED SIDEWALK MOVE FENCE	5/95
3	ADDED 20 PARKING SPACES	12/96
4	REVISE LANDING POOL AND SHOTS. 13414	02/16

prepared by: **RBA** ENGINEERS - ARCHITECTS - PLANNERS
5560 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410-730-7900

SITE LAYOUT & UTILITIES

RIVER HILL NEIGHBORHOOD POOL
HOWARD COUNTY MARYLAND

SCALE	AS SHOWN
DRAWN	ELB
CHECKED	JWC
PROJ. NO.	J0205
DATE	9/94
SHEET	3 OF 12

ADDRESS CHART	
LOT	STREET ADDRESS
105	6330 TROTTER ROAD

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL		
VILLAGE OF RIVER HILL	2/3	105		
PLAT	BLOCK	ZONE/TAX/ZONE	MAP/ELEC. DIST.	CENSUS TR.
11302	14	NT 35	5	6055
WATER CODE	SEWER CODE			

SDP 94-126

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

DIRECTOR *James P. Lee* DATE 11/9/94
CHIEF, BUREAU OF ENGINEERING *Robert Egan* DATE 11/5/94

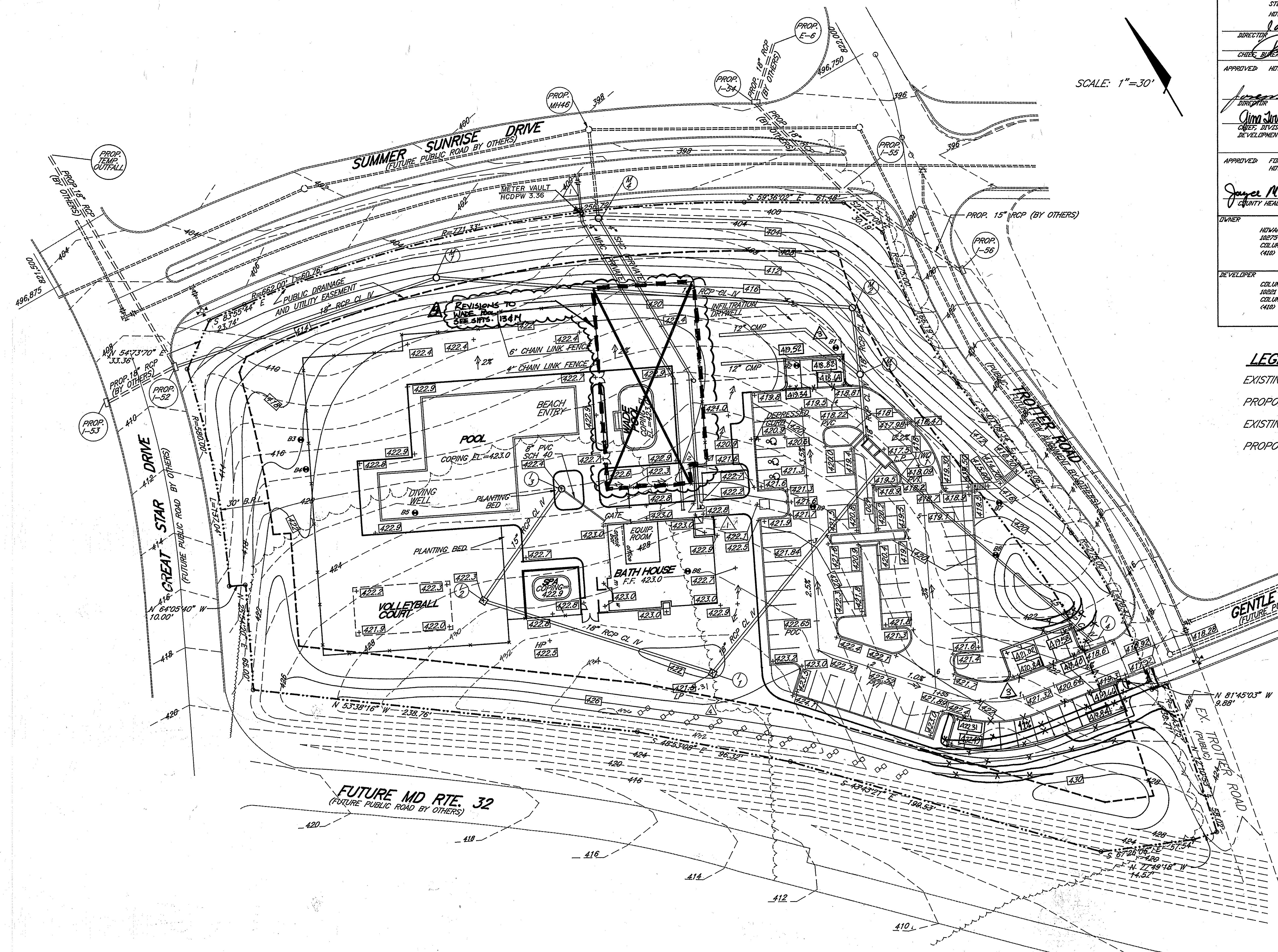
APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING
DIRECTOR *James R. Smith* DATE 11/21/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH *Jim Swannan* DATE 11/18/94

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER *James M. Boyd* DATE 11/5/94

OWNER
HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
18275 LITTLE PATRICK PKWY
COLUMBIA, MARYLAND 21044
(410) 592-6370

DEVELOPER
COLUMBIA ASSOCIATION
18221 WINDOPIN CIRCLE
COLUMBIA, MARYLAND 21044
(410) 715-3000

SCALE: 1"=30'



LEGEND

EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING TREES

PROPOSED GRADE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 9/1/94

- NOTES**
1. IN THE EVENT THAT THE FUTURE ALIGNMENT OF TROTTER ROAD IS NOT IN PLACE WHEN THE ENTRANCE DRIVE TO THE POOL IS CONSTRUCTED, A TEMPORARY CONNECTION TO EXISTING TROTTER ROAD WILL BE REQUIRED. SEE SHEET 9 OF 12 FOR DETAIL.
 2. CONSTRUCTION OF GREAT STAR DRIVE AND SUMMER SUNRISE DRIVE ADJOINING THE SITE IS EXPECTED TO HAVE BEEN COMPLETED PRIOR TO THE START OF CONSTRUCTION OF THIS DEVELOPMENT UNDER F-94-61.
 3. BATH HOUSE IS BARRIER FREE AT RESTROOM ENTRANCES.

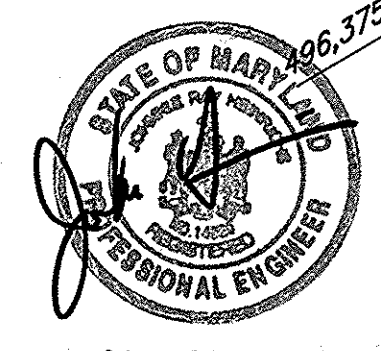
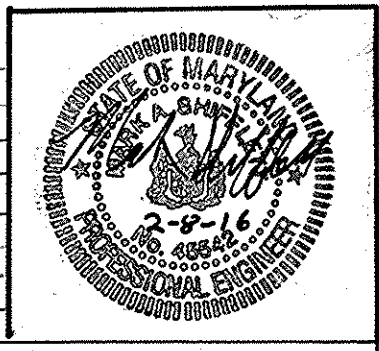
ADDRESS CHART			
LOT	STREET ADDRESS		
105	6330 TROTTER ROAD		
SUBDIVISION NAME		SECTION/AREA	LOT/PARCEL
VILLAGE OF RIVER HILL		2/3	105
PLAT	BLOCK	ZONE	TAX/ZONE
11302	14	NT	35
WATER CODE		SEWER CODE	

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 43542. EXP. DATE 6-10-16

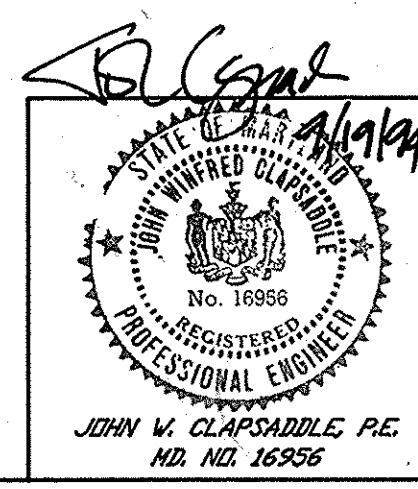
DATE NO. REVISION

9-G-11
ADDED SOLAR PANELS ALONG MD. ROUTE 32



I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.

B. G. Galt 11/13/95



NO.	DESCRIPTION	DATE
1	REV. WALK SIZE, REV. GRADING, SHOW METER VAULT	12/94
2	ADDED SIDEWALK MOVE FENCE	5/95
3	ADDED PARKING	12/96
4	REVISE WADING POOL	02/96
5	ADD SHES. 13 & 14	02/96

prepared by
RBA ENGINEERS • ARCHITECTS • PLANNERS
5560 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410-730-7950

GRADING PLAN

RIVER HILL NEIGHBORHOOD POOL

HOWARD COUNTY MARYLAND

SCALE AS SHOWN

DRAWN ELB
PROJ. NO. J0905
DATE 5/94

CHECKED JWC
DATE 5/94

4 SHEET 12 OF 12

45-BUILT 11-13-95 SOP 94-126

PHILL/PAH-ET-5.DWG

SCALE: 1"=30'

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

DIRECTOR *James P. Jaram* DATE 11/9/94
CHIEF BUREAU OF ENGINEERING *Paul J. Jaram* DATE 11/9/94

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING

DIRECTOR *James R. Rutter* DATE 11/21/94
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH *John W. Clapsaddle* DATE 11/10/94

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

COUNTY HEALTH OFFICER *James M. Bonded per gfm* DATE 11/5/94

OWNER
HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUMENT PKVY
COLUMBIA, MARYLAND 21044
(410) 592-6370

DEVELOPER
COLUMBIA ASSOCIATION
10221 WINDCOPIN CIRCLE
COLUMBIA, MARYLAND 21044
(410) 715-3000

STONE OUTLET SEDIMENT TRAP (11)
D.A. = 3.5 ACRES
STORAGE REQUIRED = 6300 CU. FT.
STORAGE PROVIDED = 6300 CU. FT.
CREST ELEV. = 403.0
CREST LENGTH = 14'
TOP OF EMBANKMENT ELEV. = 404.0
BOTTOM ELEV. = 399.0
STORAGE DEPTH = 3.0'
CLEAN OUT ELEV. = 400.5
SIDE SLOPES 2:1 MAX.
BOTTOM DIMENSIONS: 140' X 15'

DELAY CONSTRUCTION OF DECK UNTIL TRAP IS REMOVED

CONSTRUCT 150 LF +/- OF PROP. 18" RCP & DAYLIGHT AT TRAP (INV. 407.15)

POOL REVISIONS TO LAKE POOL 13 & 14

CONSTRUCT A TEMPORARY BULKHEAD INSIDE MANHOLE M-3 TO BLOCK ALL FLOW FROM ENTERING INFILTRATION DRYWELL. REMOVE ONLY AFTER ENTIRE DRAINAGE AREA HAS BEEN STABILIZED.

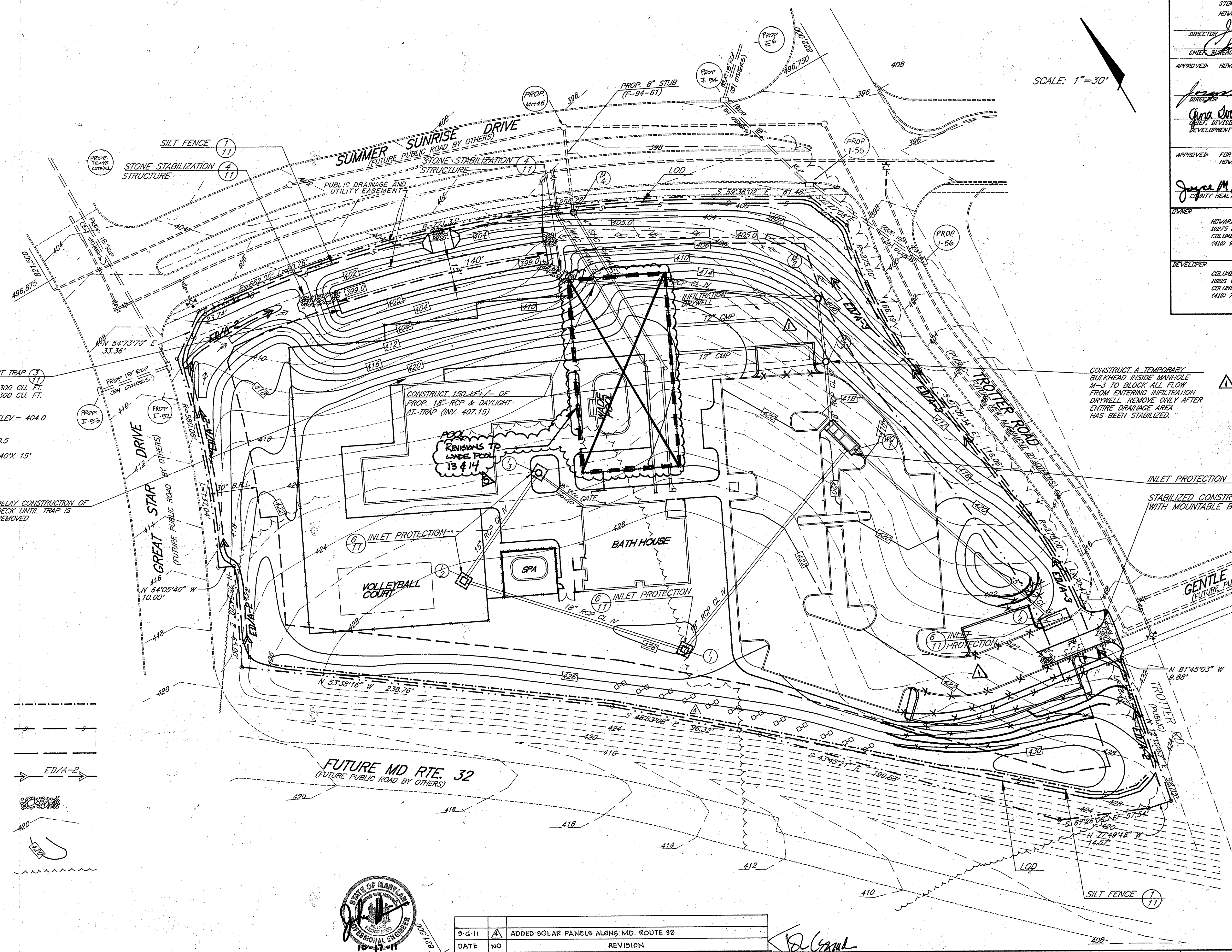
SEDIMENT CONTROL TO CONSIST OF INLET PROTECTION (1-4, WQ-1), SILT FENCE AND/OR OTHER MEASURES AS REQUIRED BY HOWARD CO. INSPECTOR.

CONTRACTOR IS RESPONSIBLE TO INSURE THAT NO SEDIMENT SHALL LEAVE THE SITE. IF CONTROL MEASURES FAIL CONTRACTOR SHALL CLEAN UP ANY SEDIMENT LEAVING THE SITE IMMEDIATELY.

INLET PROTECTION (6) (11)
STABILIZED CONSTRUCTION ENTRANCE (2) (11) WITH MOUNTABLE BERM

LEGEND

- EXISTING DRAINAGE DIVIDE
- SILT FENCE
- LIMIT OF DISTURBANCE
- EARTH DIKE (WITH TYPE SHOWN)
- STONE STABILIZATION STRUCTURE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREES



APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 9/1/94
COH

ADDRESS CHART	
LOT	STREET ADDRESS
105	6330 TROTTER ROAD

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
VILLAGE OF RIVER HILL	P/3	105
PLAT/BLOCK	ZONE/TAX/ZONE MAP/REC. DIST. CENSUS TR.	
11302 14	35	5 6055
WATER CODE	SEWER CODE	



DATE	NO	REVISION
9-6-11	1	ADDED SOLAR PANELS ALONG MD. ROUTE 92

CERTIFICATION BY THE DEVELOPER
I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

John W. Clapsaddle DATE 11/21/94
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)

CERTIFICATION BY THE ENGINEER
I CERTIFY THAT THIS PLAN FOR 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.

John W. Clapsaddle DATE 11/21/94
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED *John R. Robertson* DATE 11/21/94
HOWARD S.C.D.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

APPROVED *Patricia Engle* DATE 11/11/94
U.S. SOIL CONSERVATION SERVICE

PROVISIONS

ADDED PAVING
REUSE EXISTING
POOL ADD SHS 13414

DATE 12/16/96

PREPARED BY

RBA ENGINEERS • ARCHITECTS • PLANNERS
5560 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410-730-7950

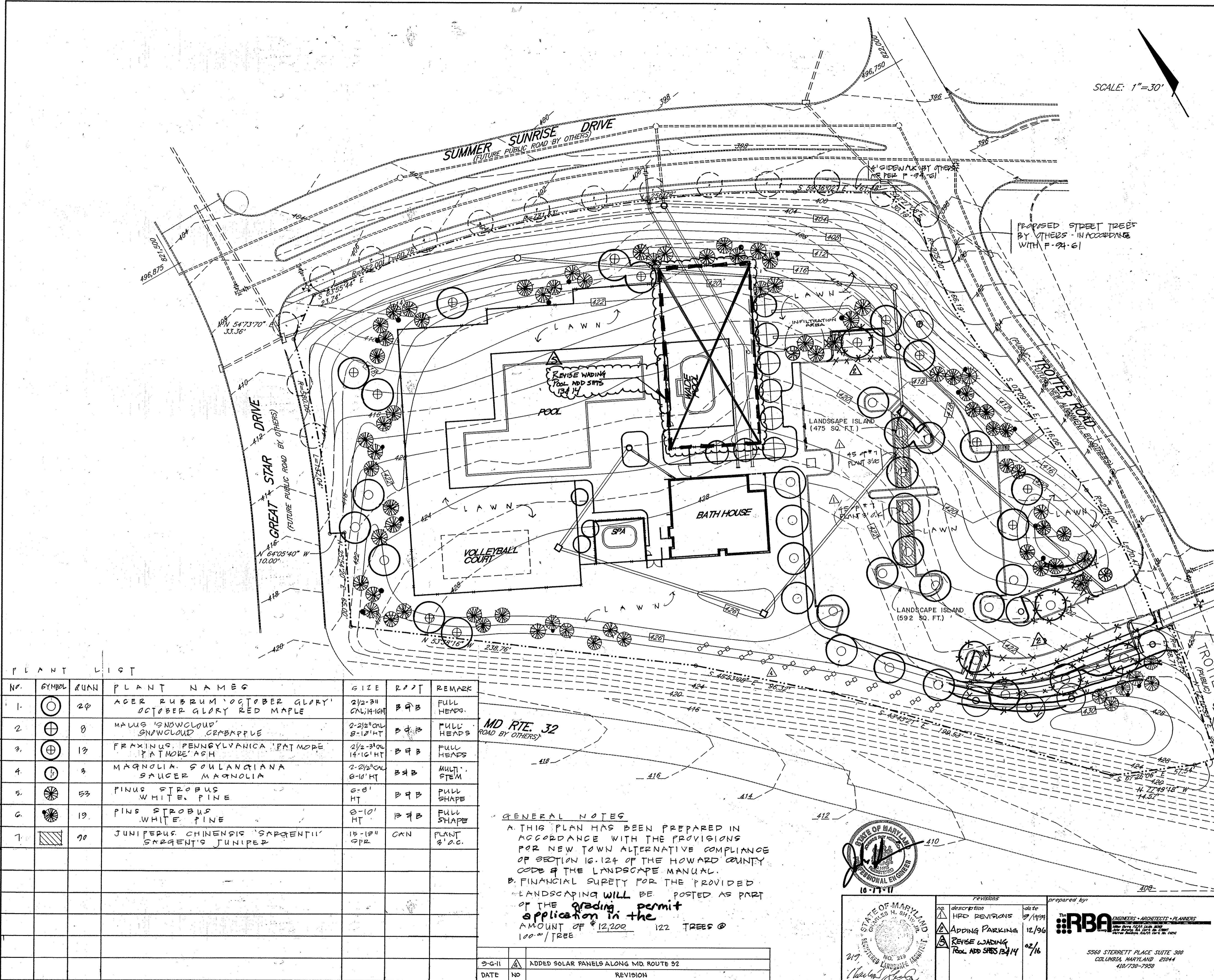
SEDIMENT CONTROL PLAN

RIVER HILL NEIGHBORHOOD POOL

HOWARD COUNTY MARYLAND

SCALE AS SHOWN

DRAWN ELB
PROJ. NO. J0905
DATE 9/94
SHEET 5



SCALE: 1"=30'

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *James G. Slavin* 11/9/94
 CHIEF, BUREAU OF ENGINEERING *Michael J. Spitzer* 11/9/94
 APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR *James R. Smith* 11/21/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH, COH *Quinn Simmons* 11/18/94
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *James M. Boyd and partner* 11/15/94
 OWNER: HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 10275 LITTLE PATRIENT PKWY
 COLUMBIA, MARYLAND 21044
 (410) 592-6370
 DEVELOPER: COLUMBIA ASSOCIATION
 10221 VINCIPIN CIRCLE
 COLUMBIA, MARYLAND 21044
 (410) 715-3000

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONTRACTOR TO REPLANT ALL TREES WITHIN LIMITS OF DISTURBANCE OR REPLACE THEM IN KIND ACCORDING TO THE SCHEDULE OF PLANTS ON THIS SHEET.

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 9/1/94
 COH

PLANT LIST

NO.	SYMBOL	QUAN	PLANT NAMES	SIZE	ROOT	REMARK
1		20	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2 1/2-3 1/4 CAL. 14-16 HT	B & B	FULL HEADS
2		8	MALUS 'SNOWCLOUD' SNOWCLOUD CRABAPPLE	2-2 1/2" 8-12" HT	B & B	FULL HEADS
3		13	FRAXINUS PENNSYLVANICA 'PATMORE' PATMORE ASH	2 1/2-3" 14-16" HT	B & B	FULL HEADS
4		3	MAGNOLIA SOULANDIANA SAUCER MAGNOLIA	2-2 1/2" 8-10" HT	B & B	MULTI-STEM
5		53	PINUS STROBUS WHITE PINE	6-8" HT	B & B	FULL SHAPE
6		19	PINUS STROBUS WHITE PINE	8-10" HT	B & B	FULL SHAPE
7		90	JUNIPERUS CHINENSIS 'SARGENTII' SARGENT'S JUNIPER	15-18" SPR	CAN	PLANT @ 3' O.C.

MD RTE. 32
 ROAD BY OTHERS

GENERAL NOTES
 A. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS FOR NEW TOWN ALTERNATIVE COMPLIANCE OF SECTION 16.124 OF THE HOWARD COUNTY CODE & THE LANDSCAPE MANUAL.
 B. FINANCIAL SURETY FOR THE PROVIDED LANDSCAPING WILL BE POSTED AS PART OF THE GRADING PERMIT APPLICATION IN THE AMOUNT OF \$12,200 122 TREES @ 100.00/TREE

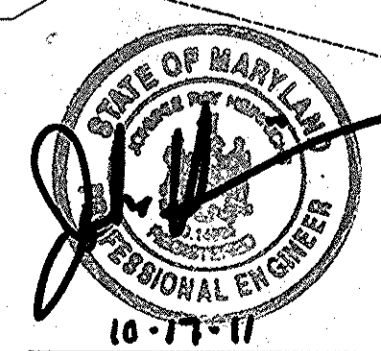
DATE	NO	REVISION
9-6-11	1	ADDED SOLAR PANELS ALONG MD. ROUTE 32

Landscape Islands
 Number of Parking Spaces: 77.87
 Parking islands required: 4.3
 Internal islands provided (equivalent): 5
 Shade trees required: 4.3
 Shade trees provided: 4
 (in islands - see sheet 6 of 13)

ADDRESS CHART

LOT	STREET ADDRESS
105	6330 TROTTER ROAD

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
VILLAGE OF RIVER HILL	PR/3-1	105
PLAT/BLOCK	ZONE/TAX/ZONE	MAP/ELEC. DIST./CENSUS TR.
11302/14	NT/35	6/6055
WATER CODE	SEWER CODE	



revisions

no.	description	date
1	HRD REVISIONS	9/1/94
2	ADDING PARKING	12/96
3	REVISE LANDING POOL ADD SHES 13/14	02/16

prepared by: **RBA** ENGINEERS - ARCHITECTS - PLANNERS
 5560 STERRETT PLACE SUITE 300
 COLUMBIA, MARYLAND 21044
 410/730-7950

LANDSCAPE PLAN
RIVER HILL COMMUNITY POOL
 HOWARD COUNTY MARYLAND
 SCALE AS SHOWN
 DRAWN: JAC
 CHECKED: JVC
 PROJ. NO: JB905
 DATE: 9/94
 SHEET: 6 OF 124

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

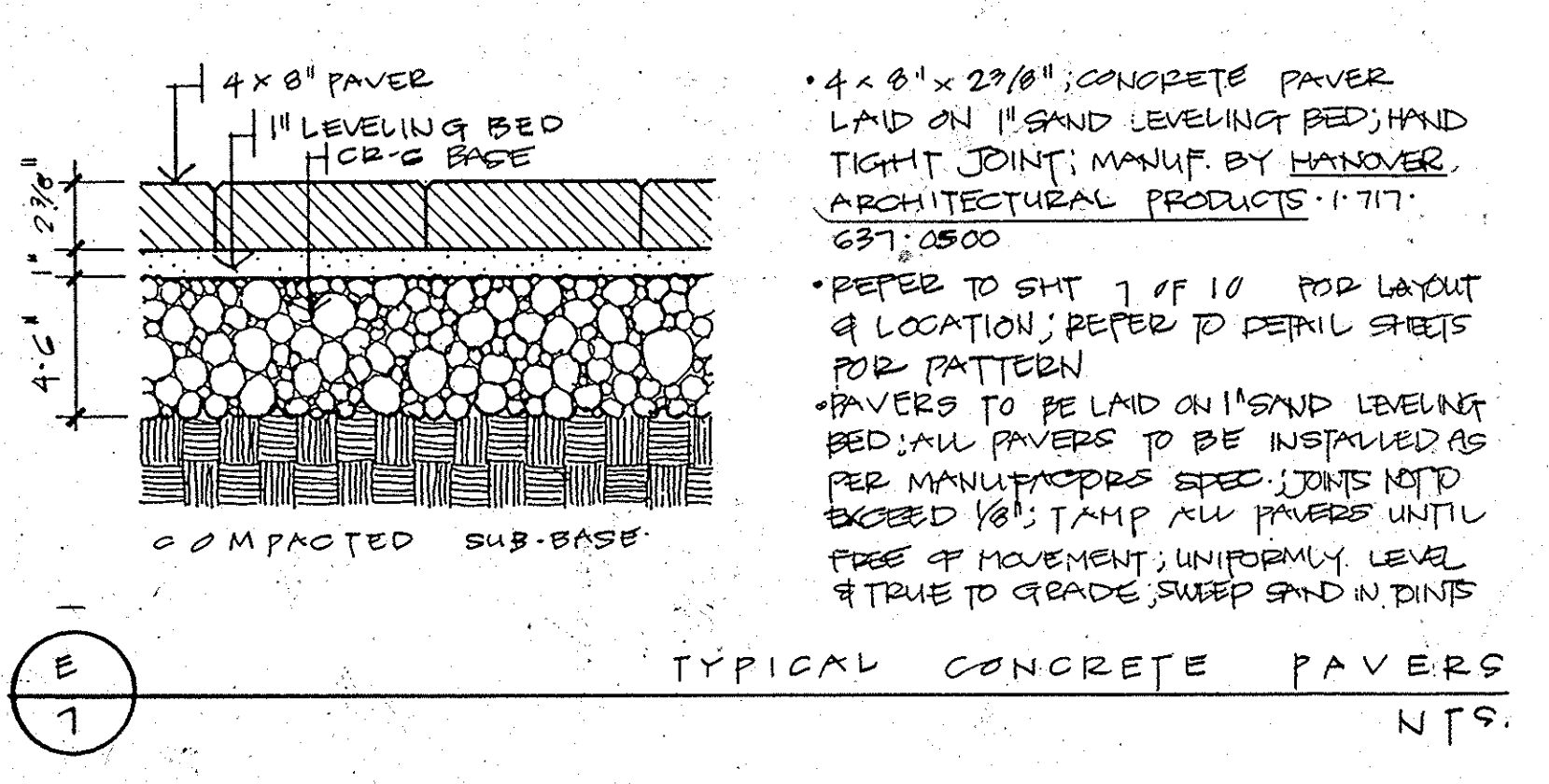
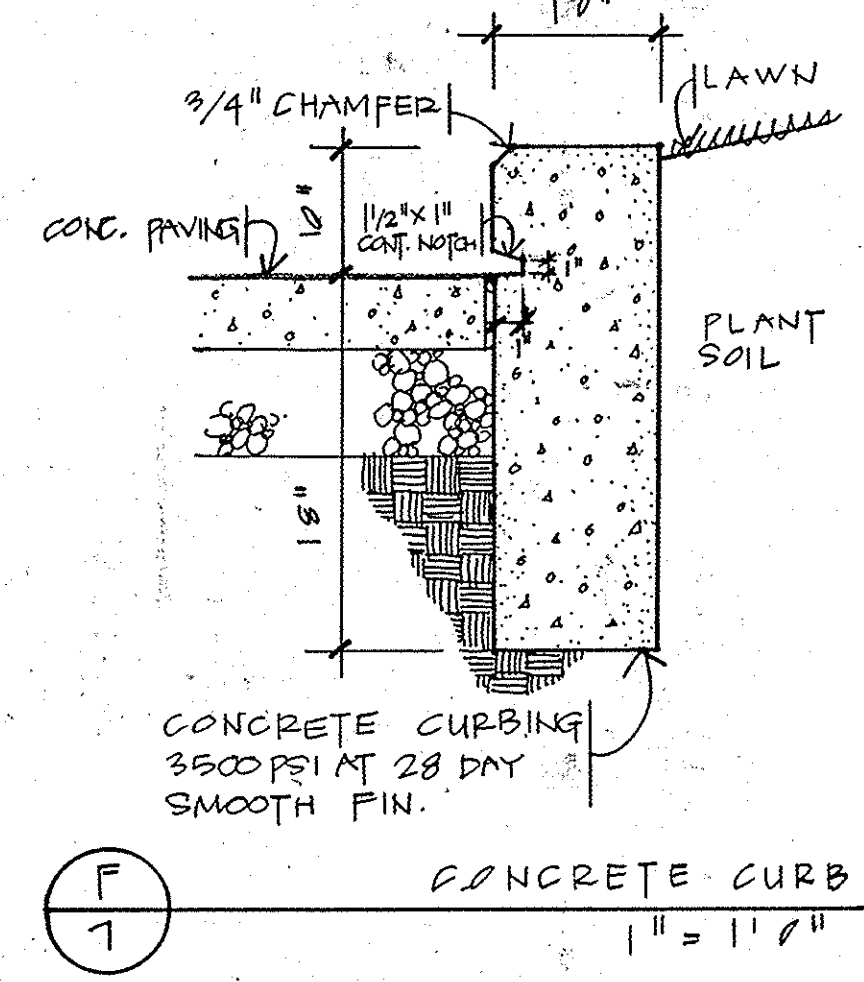
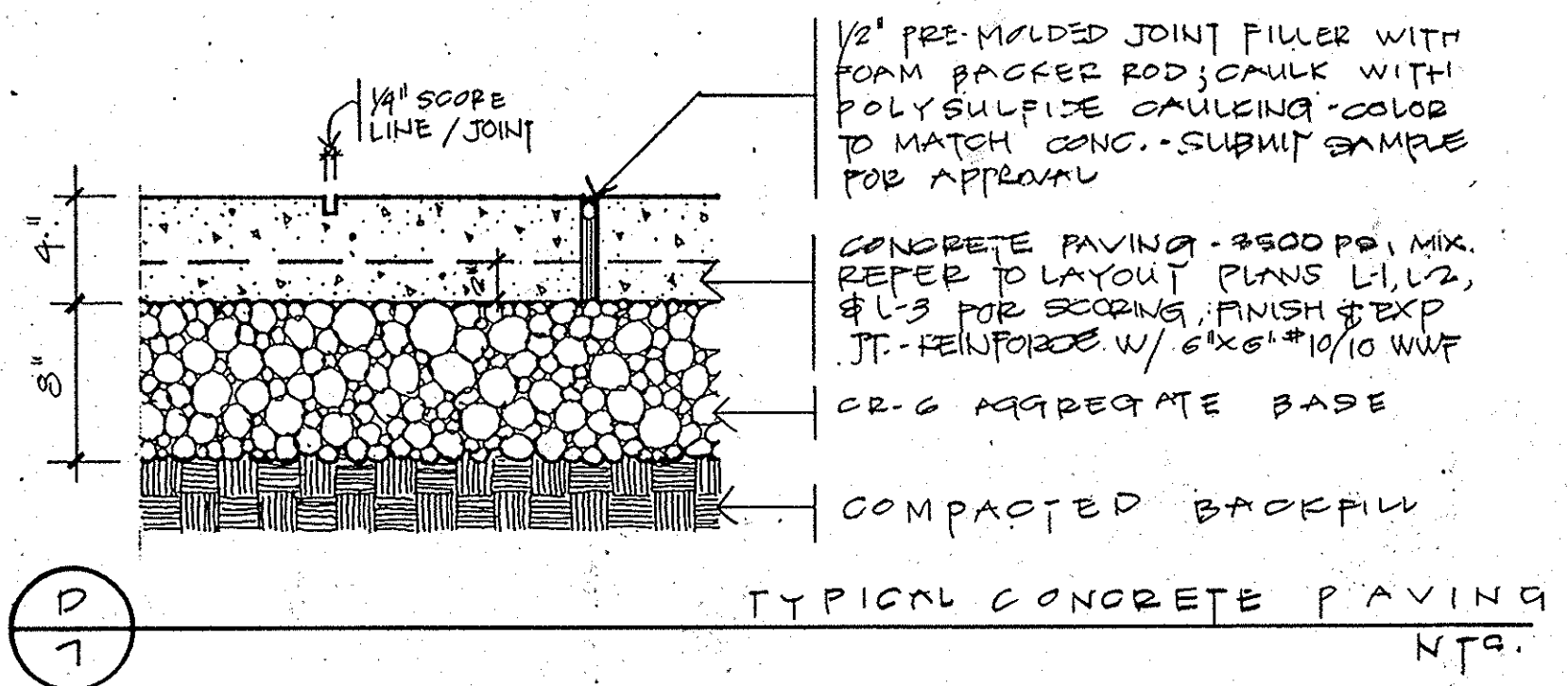
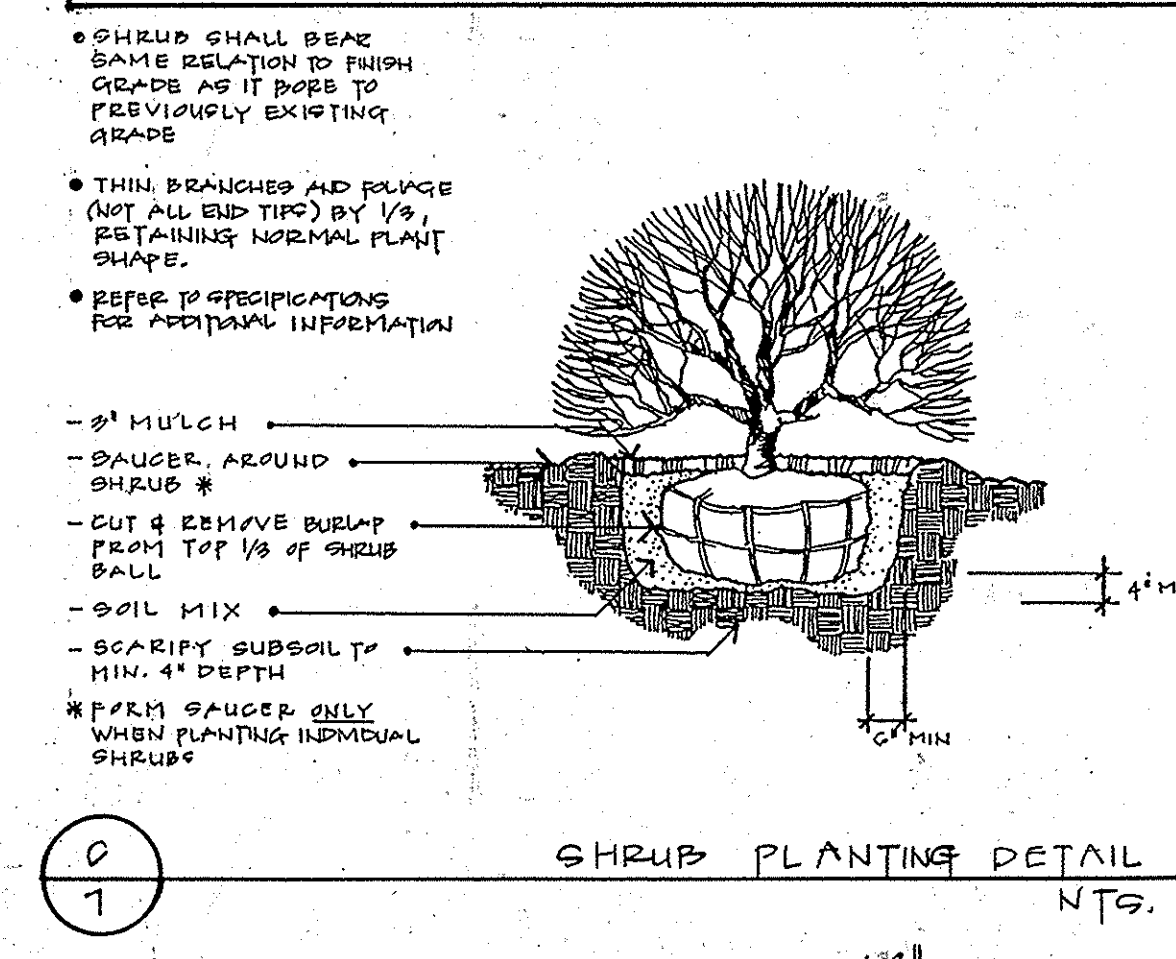
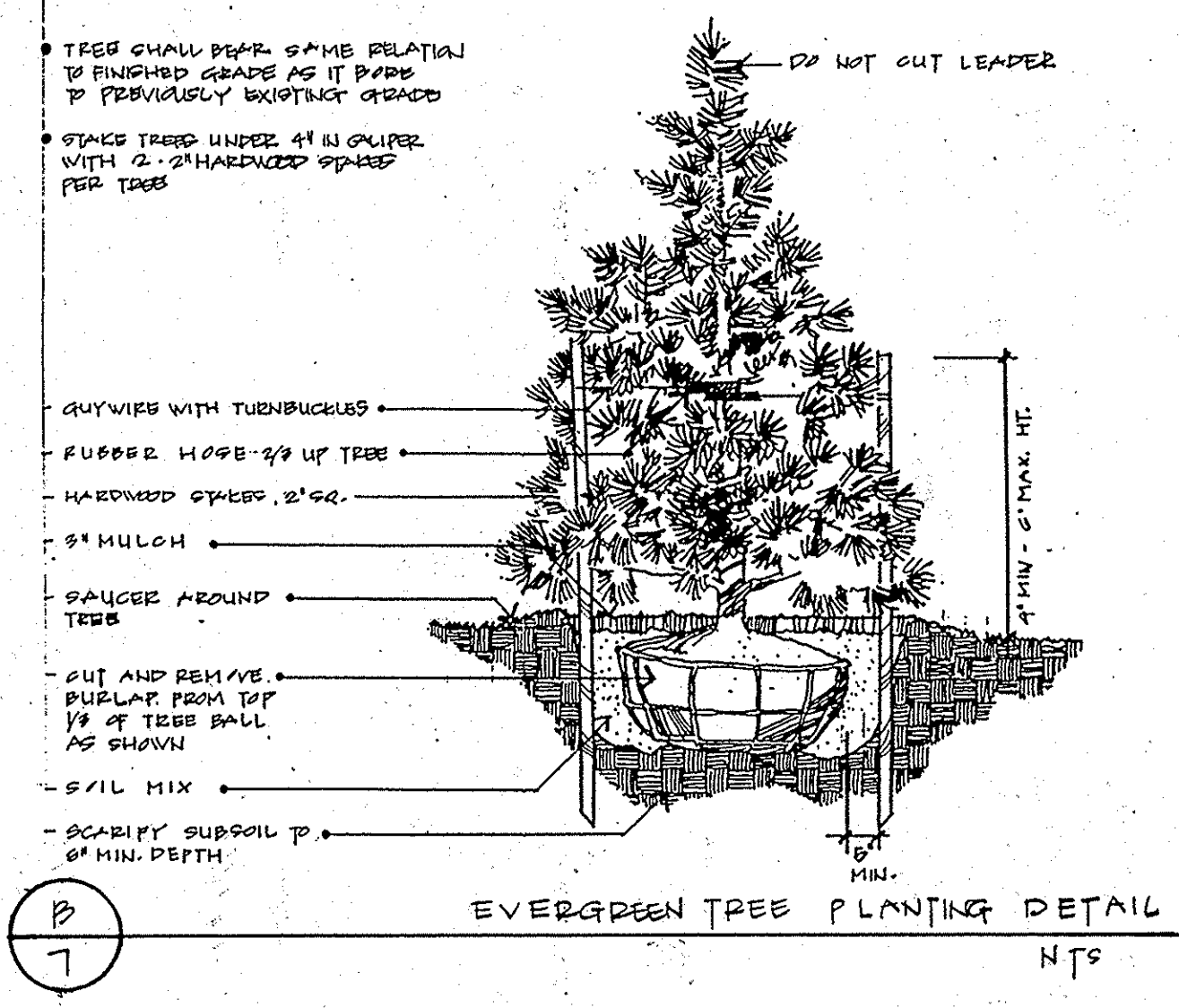
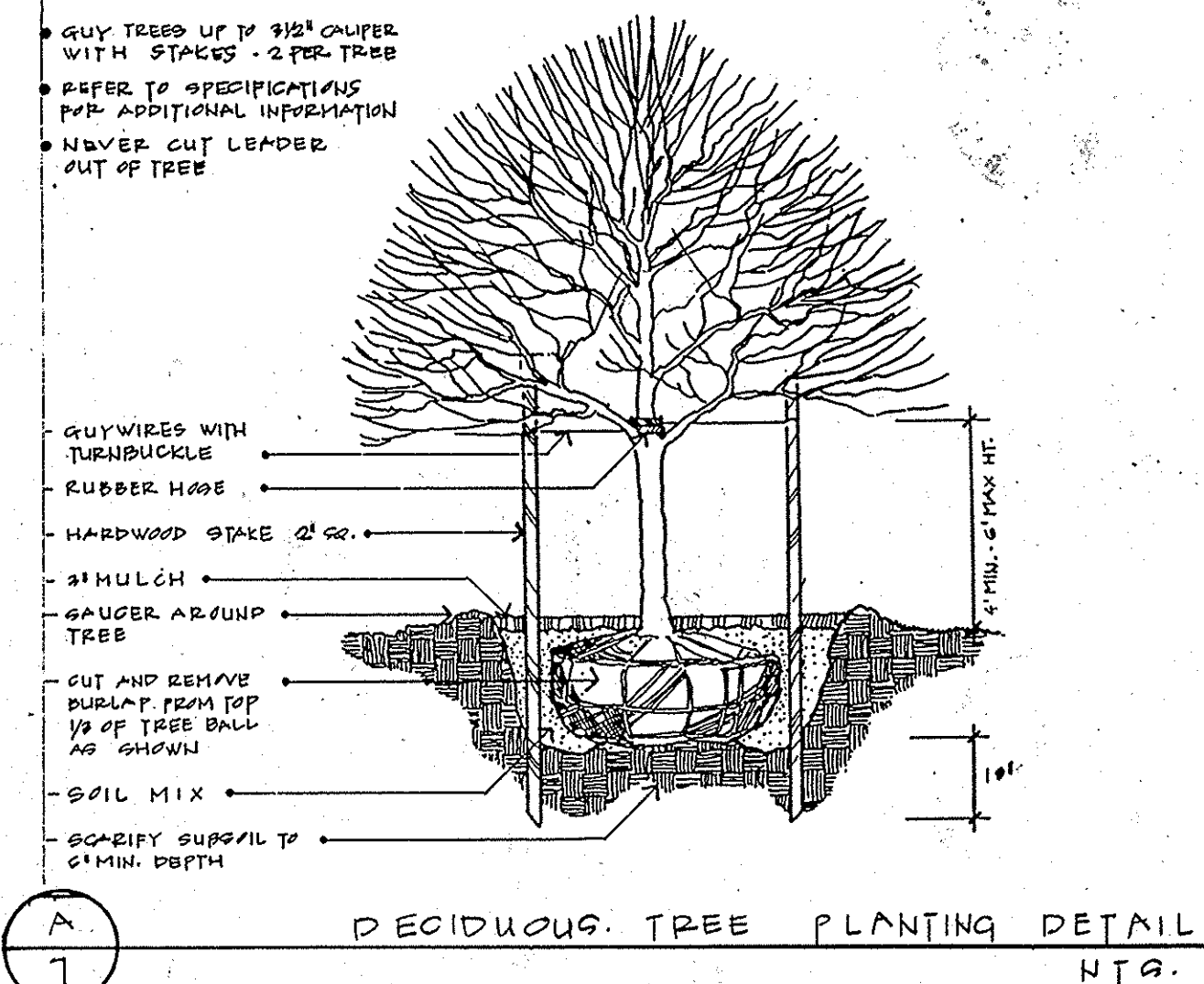
DIRECTOR *James J. Shaw* DATE *11/9/94*
CHIEF, BUREAU OF ENGINEERING *Robert Egan* DATE *11/9/94*

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING
DIRECTOR *James R. Smith* DATE *11/21/94*
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH *Gene Strummon* DATE *11/18/94*

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER *Joyce M. Boyd* DATE *11/15/94*

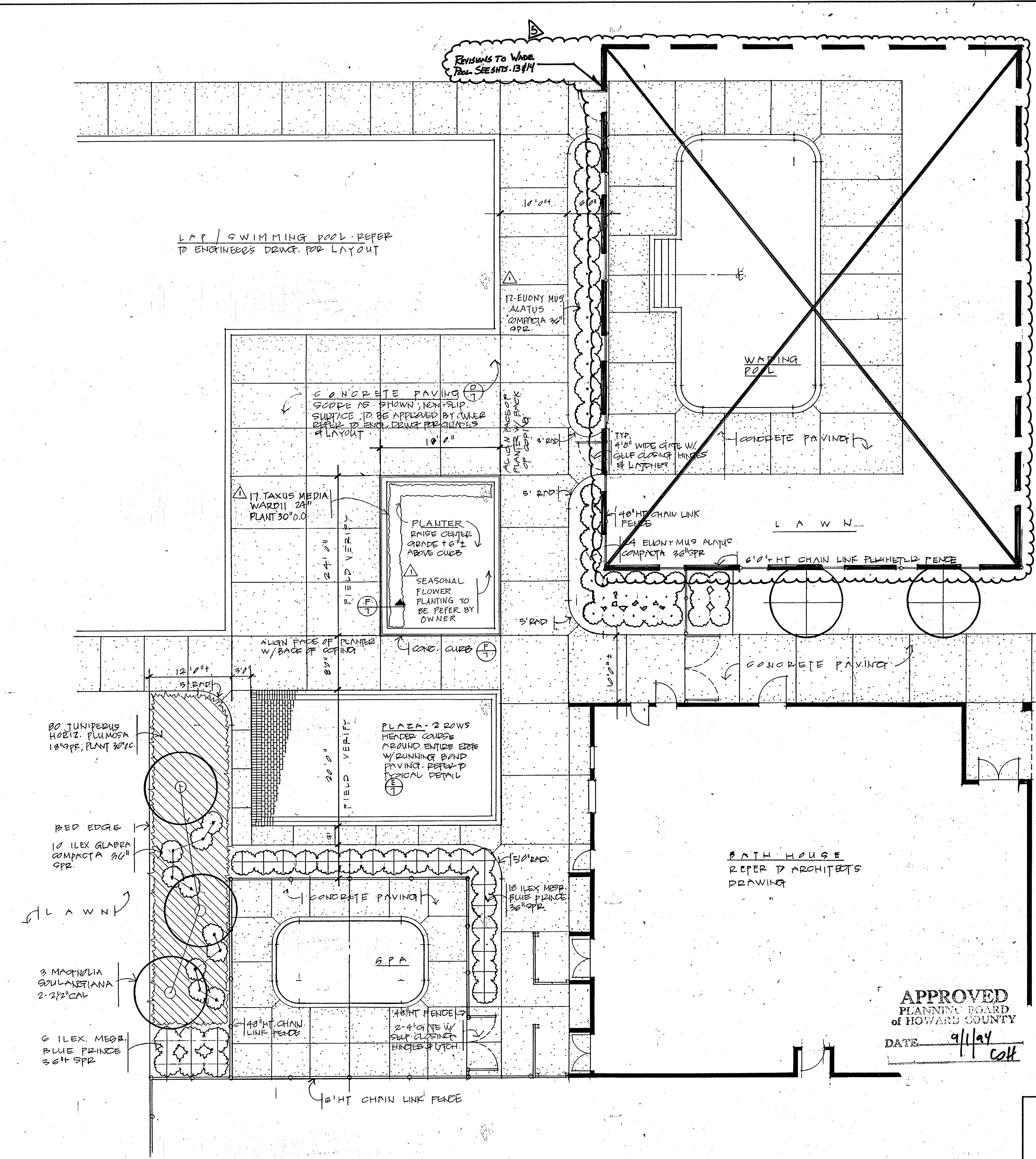
OWNER
HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATENT PKWY
COLUMBIA, MARYLAND 21044
(410) 592-6370

DEVELOPER
COLUMBIA ASSOCIATION
10221 WINDOPAN CIRCLE
COLUMBIA, MARYLAND 21044
(410) 715-3000



ADDRESS CHART	
LOT	STREET ADDRESS
105	3330 TROTTER ROAD

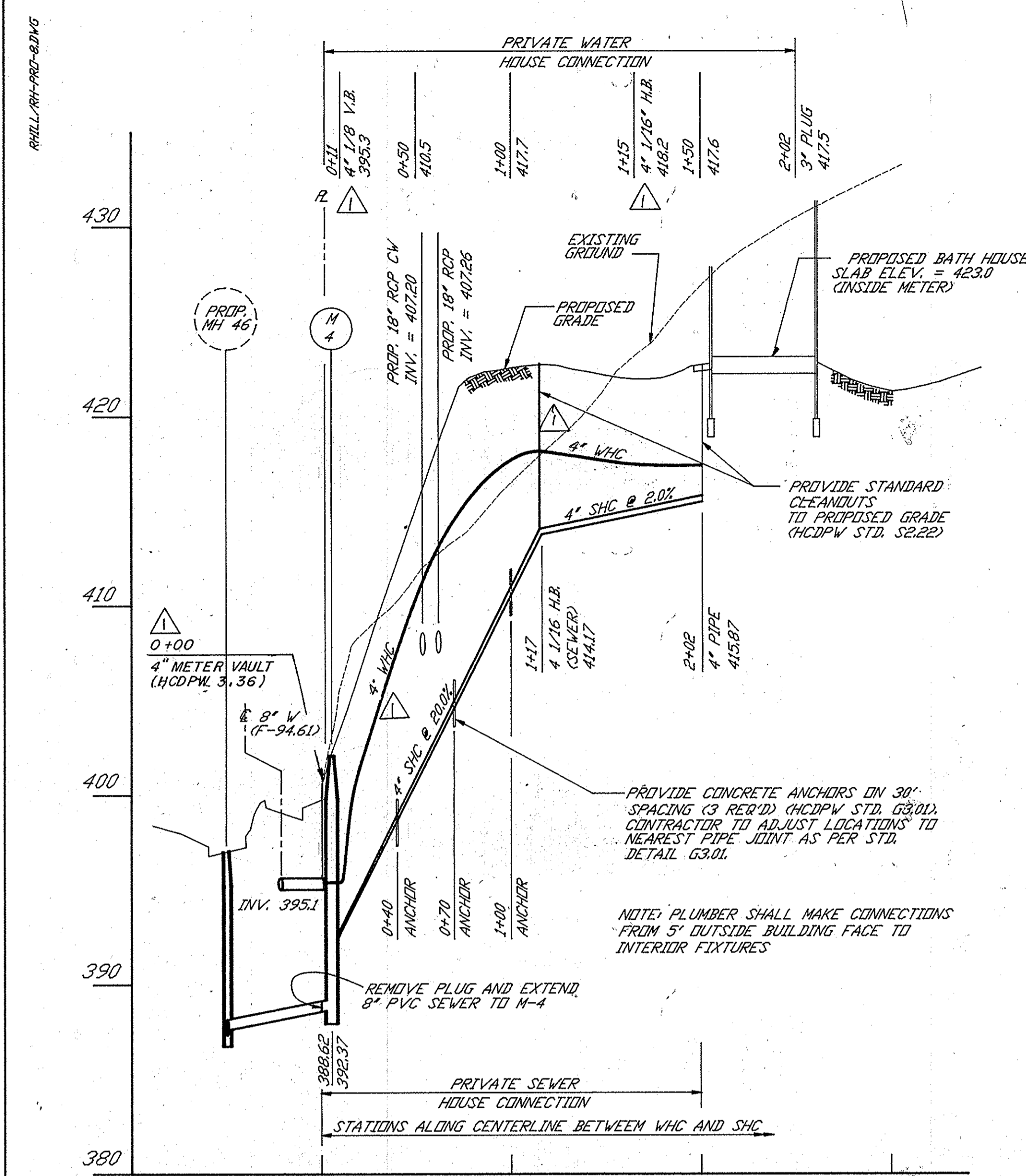
SUBDIVISION NAME		SECTION/AREA	LOT/PARCEL	
VILLAGE OF RIVER HILL		21/2	105	
Phase 1				
PLAT	BLOCK	ZONE/TAX/ZONE	MAP/ELEC. DIST.	CENSUS TR.
11302	14	NT	35	6
WATER CODE		SEWER CODE		



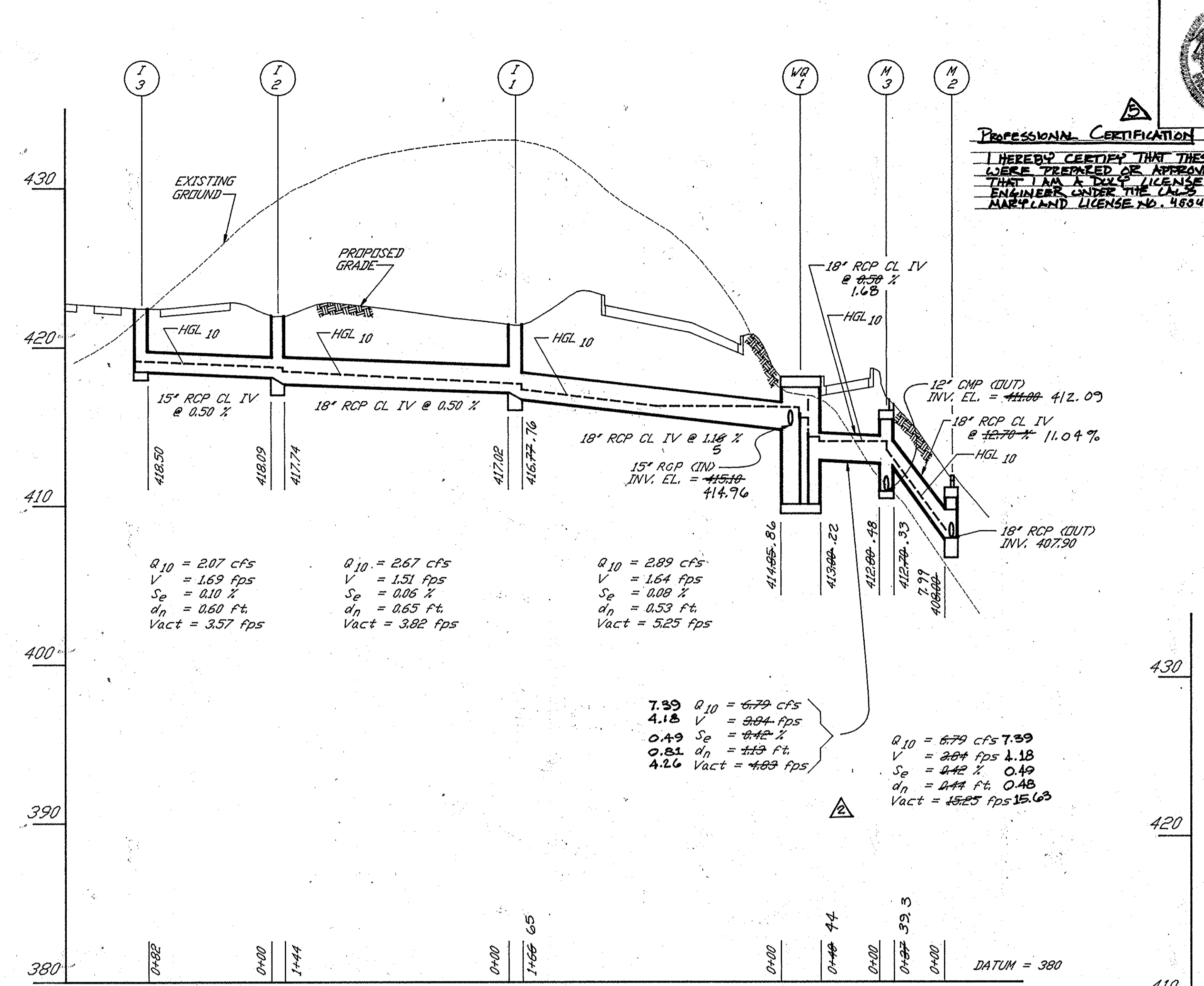
APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 9/1/94 *coll*

DETAIL LAYOUT & PLANTING PLAN
1/8" = 1'0"

	REVISIONS HRD REVISIONS REVISED LANDING Ref. Add SHTS 13 & 14	PREPARED BY RBA ENGINEERS - ARCHITECTS - PLANNERS 5560 STERRETT PLACE SUITE 300 COLUMBIA, MARYLAND 21044 410-730-7930	SCALE AS SHOWN DRAWN JWC CHECKED JWC PROJ. NO. J6903 DATE 11/5/94 SHEET 7 OF 12
	LANDSCAPE DETAILS RIVER HILL NEIGHBORHOOD POOL HOWARD COUNTY MARYLAND		



WATER AND SEWER PROFILE
 HORIZ. 1"=50'
 VERT. 1"=5'



STORM DRAIN PROFILE
 HORIZ. 1"=50'
 VERT. 1"=5'

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 46934 6-10-76

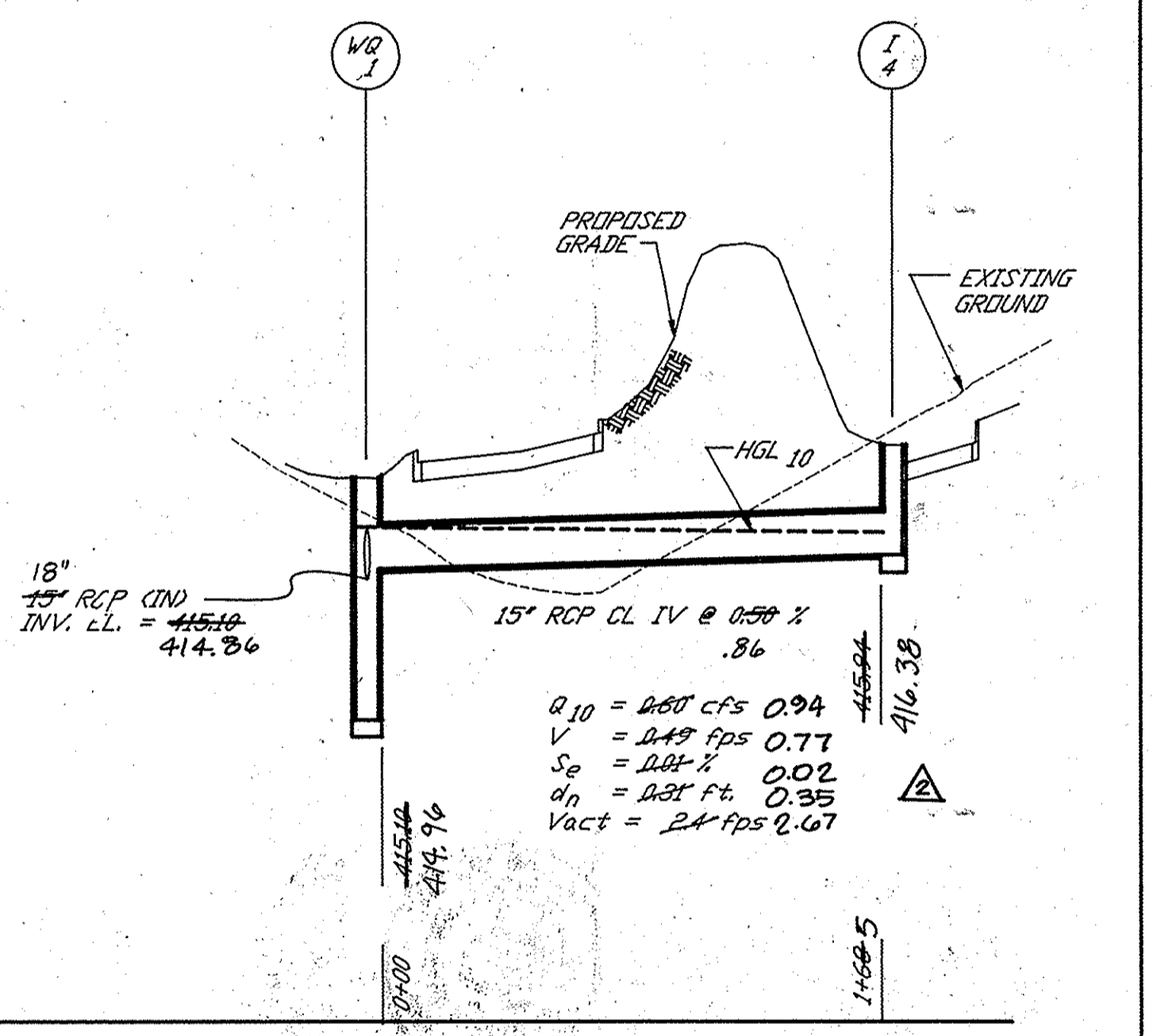
APPROVED FOR PUBLIC WATER PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *James J. Jew* 11/9/94
 CHIEF, BUREAU OF ENGINEERING: *Joseph J. Jew* 11/9/94

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR: *Joseph J. Jew* 11/21/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: *Anna Drummond* 11/18/94

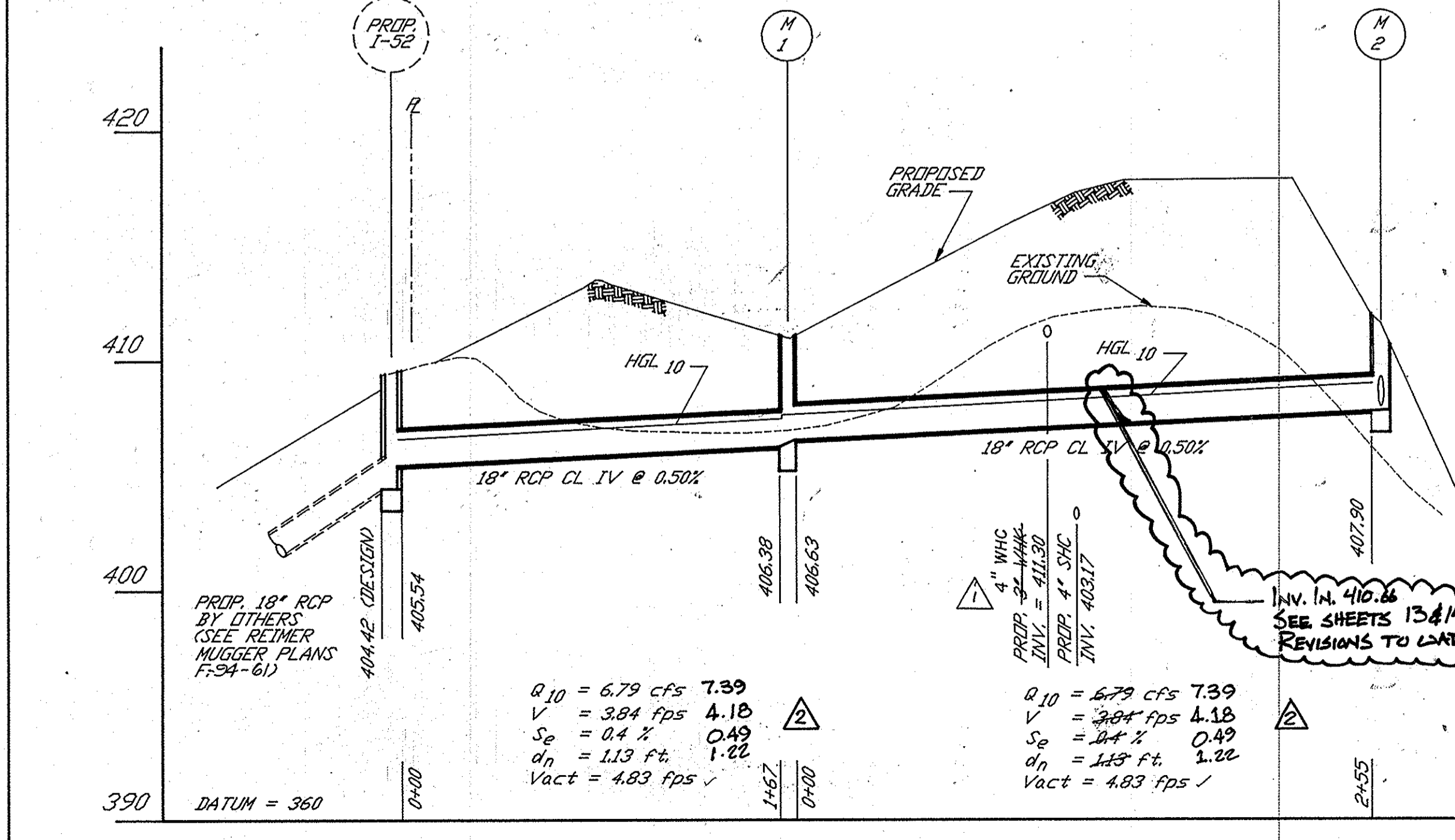
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *Joyce M. Bowdler* 11/15/94

OWNER
 HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 10275 LITTLE PATENT RD PKVY
 COLUMBIA, MARYLAND 21044
 (410) 592-6370

DEVELOPER
 COLUMBIA ASSOCIATION
 10221 WINCIPIN CIRCLE
 COLUMBIA, MARYLAND 21044
 (410) 715-3000



STORM DRAIN PROFILE
 HORIZ. 1"=50'
 VERT. 1"=5'



STORM DRAIN PROFILE
 HORIZ. 1"=50'
 VERT. 1"=5'

STRUCTURE SCHEDULE

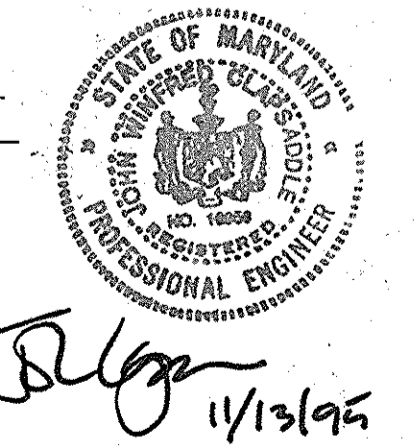
NUMBER	TYPE	TOP ELEVATION UPPER LOWER	INVERT IN OUT	SIZE	REMARKS
I-1	5" INLET	GRATE EL. 421.58(3)	417.02 416.77(7)	24"	HCDPW STD SD4.22
I-2	5" INLET	GRATE EL. 422.00	418.09 417.74	2'-7 1/2" x 2'-7"	HCDPW STD SD4.22
I-3	YARD INLET	GRATE EL. 422.40	- 418.50	2'-7 1/2" x 2'-7"	HCDPW STD SD4.14
I-4	A-10 INLET	419.72	419.28	W=2'-6"	HCDPW STD SD4.01
M-1	SHALLOW PRECAST MH	411.00	405.63 405.38	48"	HCDPW STD G5.12
M-2	SHALLOW PRECAST MH	412.00(0.6)	406.00(7.99) 407.90	48"	HCDPW STD G5.12
M-3	SHALLOW PRECAST MH	317.00(-6.8)	412.00(4.8) 412.76(3.3)	48"	HCDPW STD G5.12
M-4	DROP MH TYPE 'A'	402.50	392.37 388.62	48"	HCDPW STD S1.32
WQ-1	WATER QUALITY INLET	318.20(-1.7)	318.16(0.1) 414.05(8.6) 413.00(2.2)	-	

- NOTES:
 1 ALL STRUCTURES ARE HOWARD COUNTY STANDARDS UNLESS NOTED OTHERWISE.
 2 SPECIAL DESIGN OIL GRIT SEPARATOR REFER TO DETAILS.

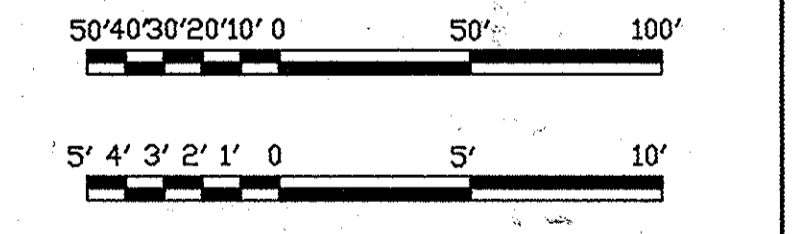
PIPE SCHEDULE

SIZE	TYPE	QUANTITY
15"	RCP CL IV	250 LF
18"	RCP CL IV	809 LF
12"	CMP 16 GA.	168 LF

I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications



APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: 9/1/94
 C.H.



ADDRESS CHART

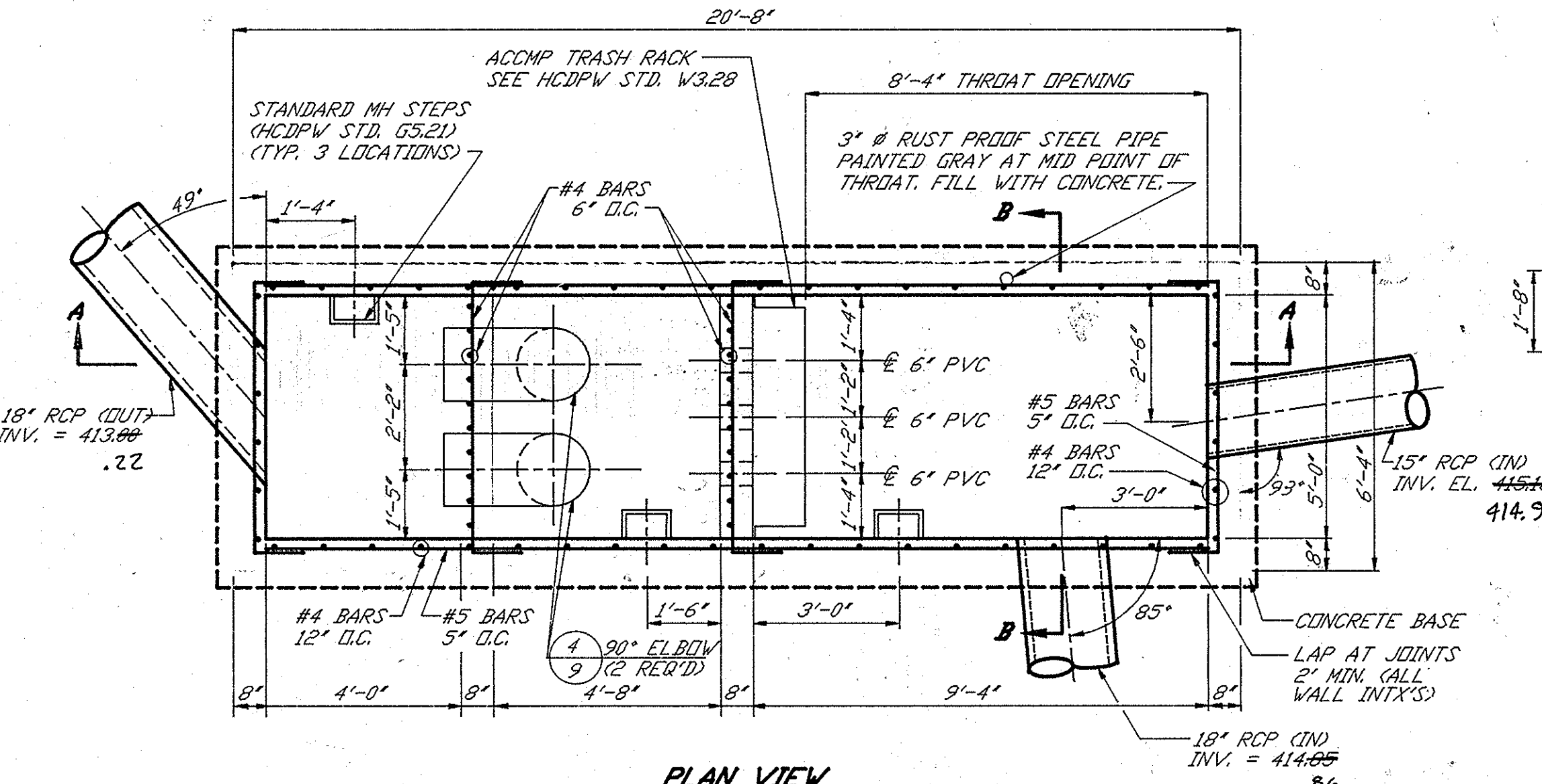
LOT	STREET ADDRESS
105	6330 TROTTER ROAD

SUBDIVISION NAME VILLAGE OF RIVER HILL
SECTION/AREA 2/3 105
PLAT BLOCK 11302 14
ZONE/TAX ZONE H/1302
MAR/elec. DIST. 5
CENSUS TR. 6055
WATER CODE
SEWER CODE

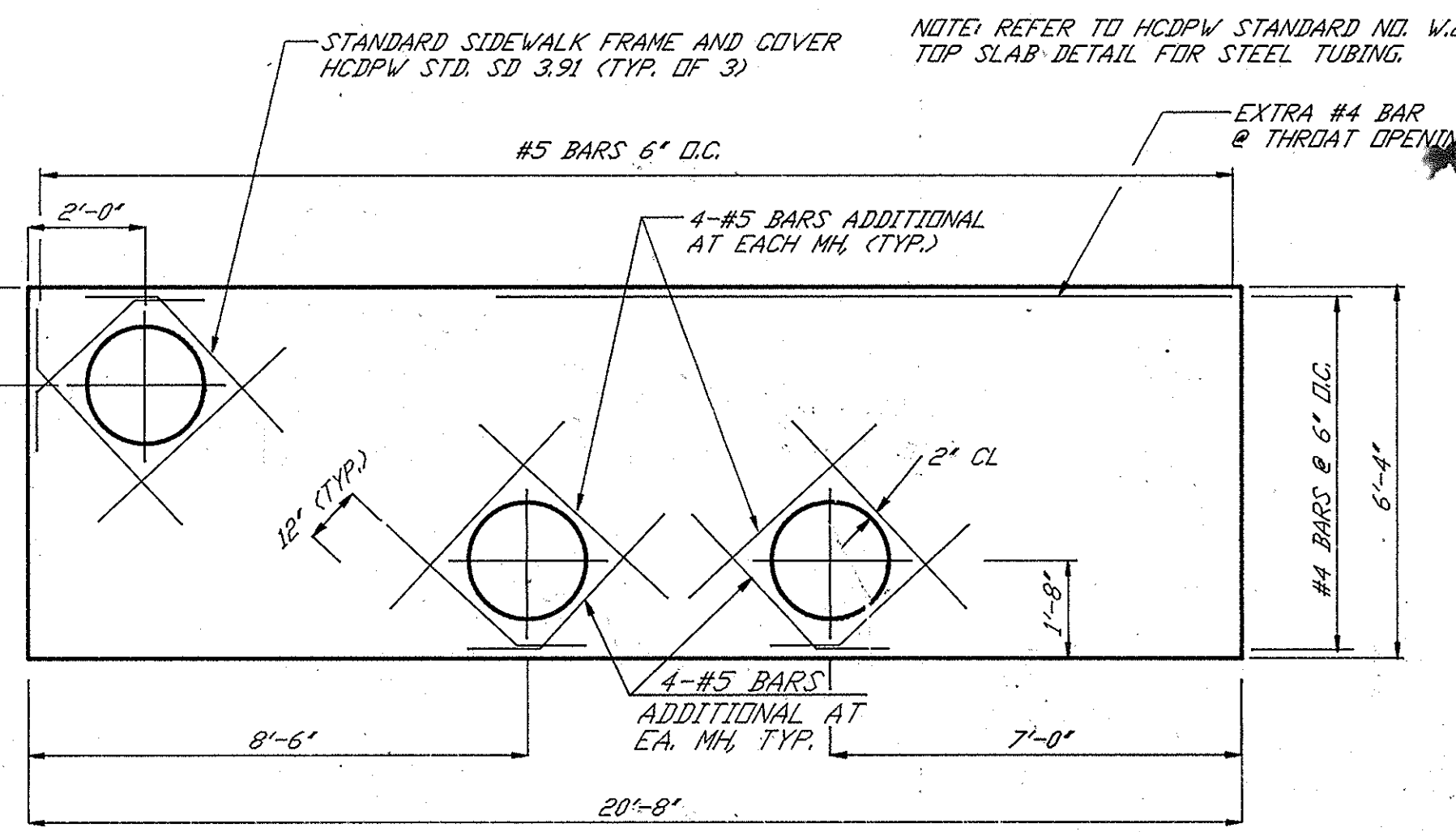
PROFILES
 RIVER HILL NEIGHBORHOOD POOL
 HOWARD COUNTY MARYLAND

SCALE AS SHOWN
DRAWN E.L.B.
CHECKED J.V.C.
PROJ. NO. 0905
DATE 3/94
SHEET 8 OF 124

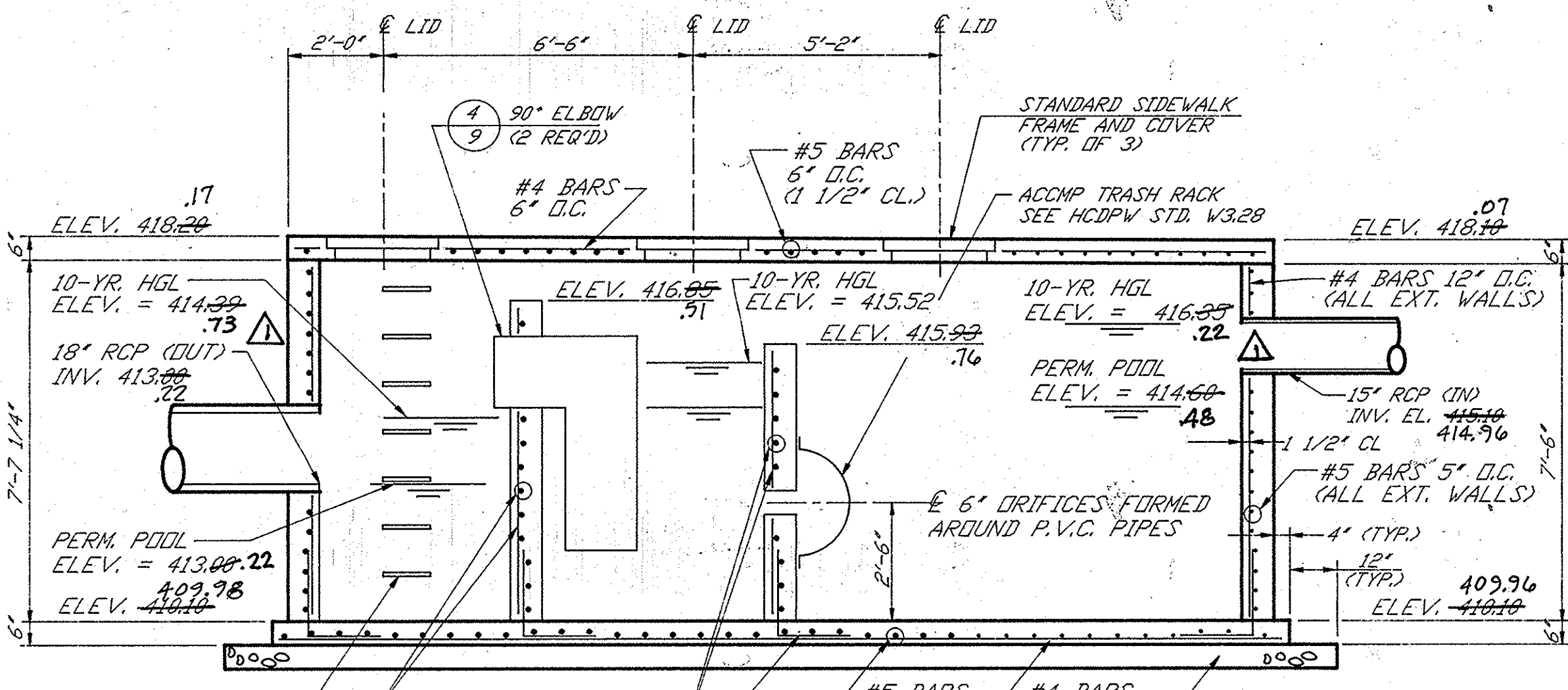
RHILL/RH-DE-10DWG



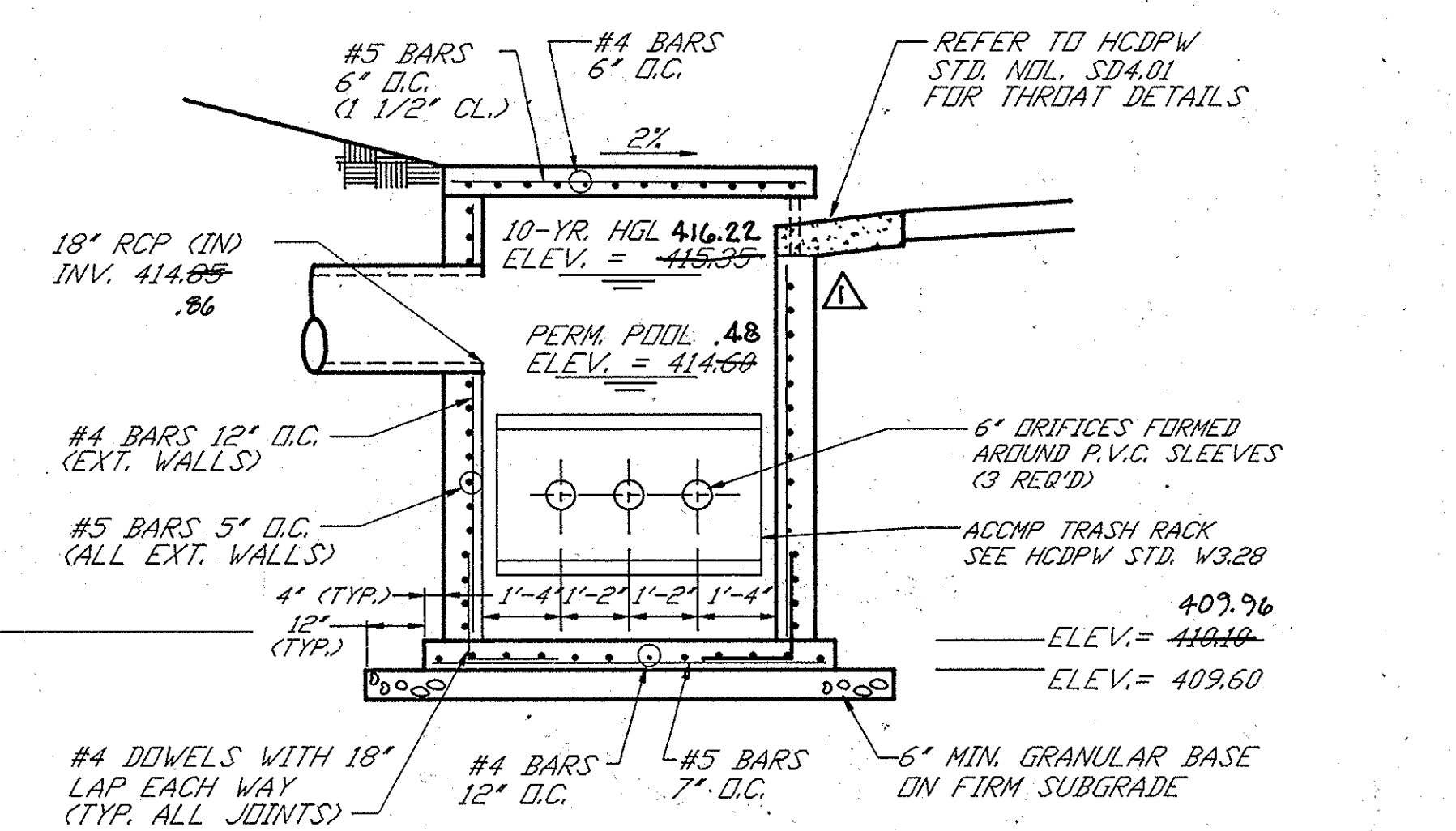
PLAN VIEW
(WITH TOP SLAB REMOVED)



TOP SLAB



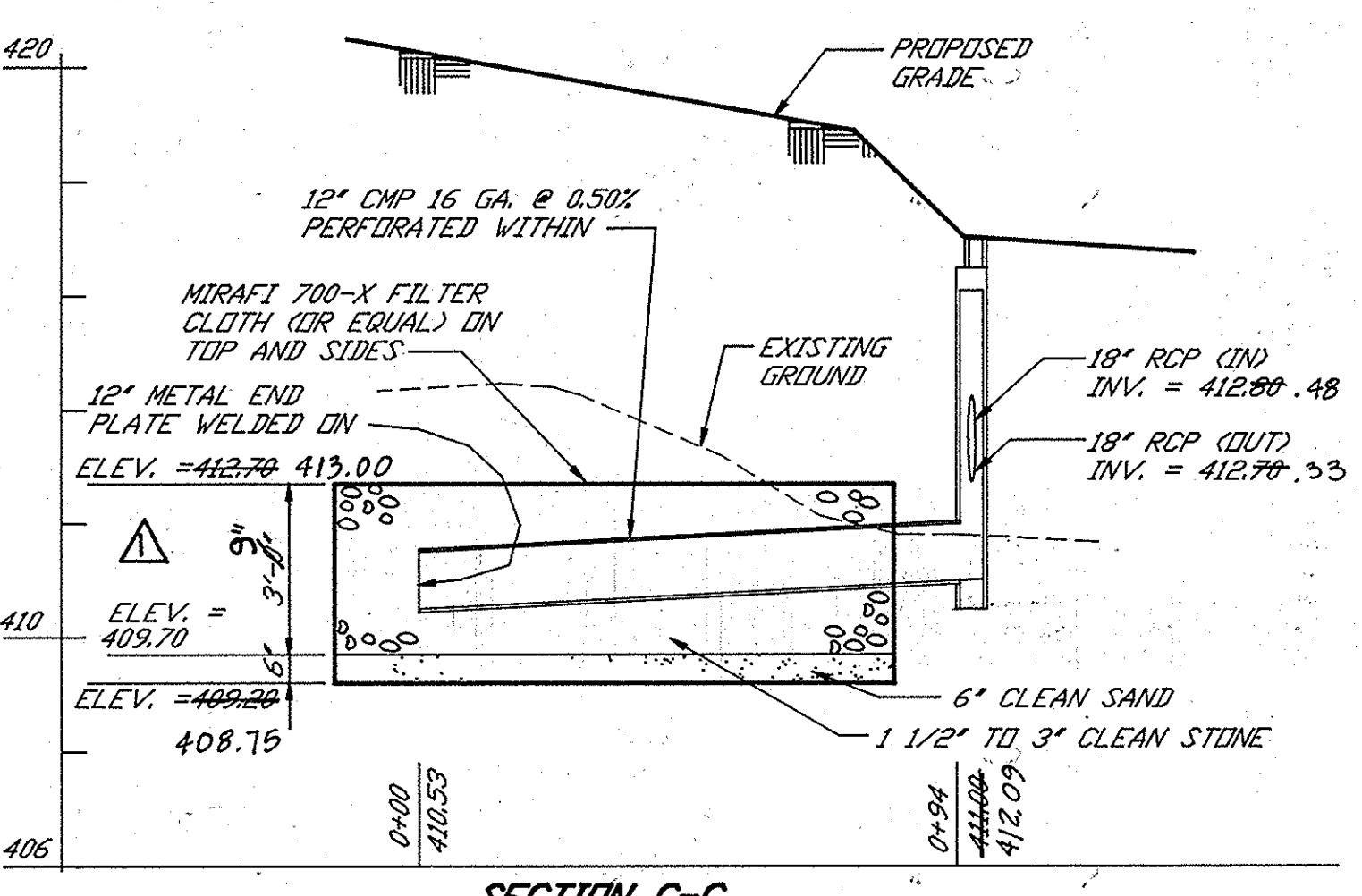
SECTION A-A



SECTION B-B

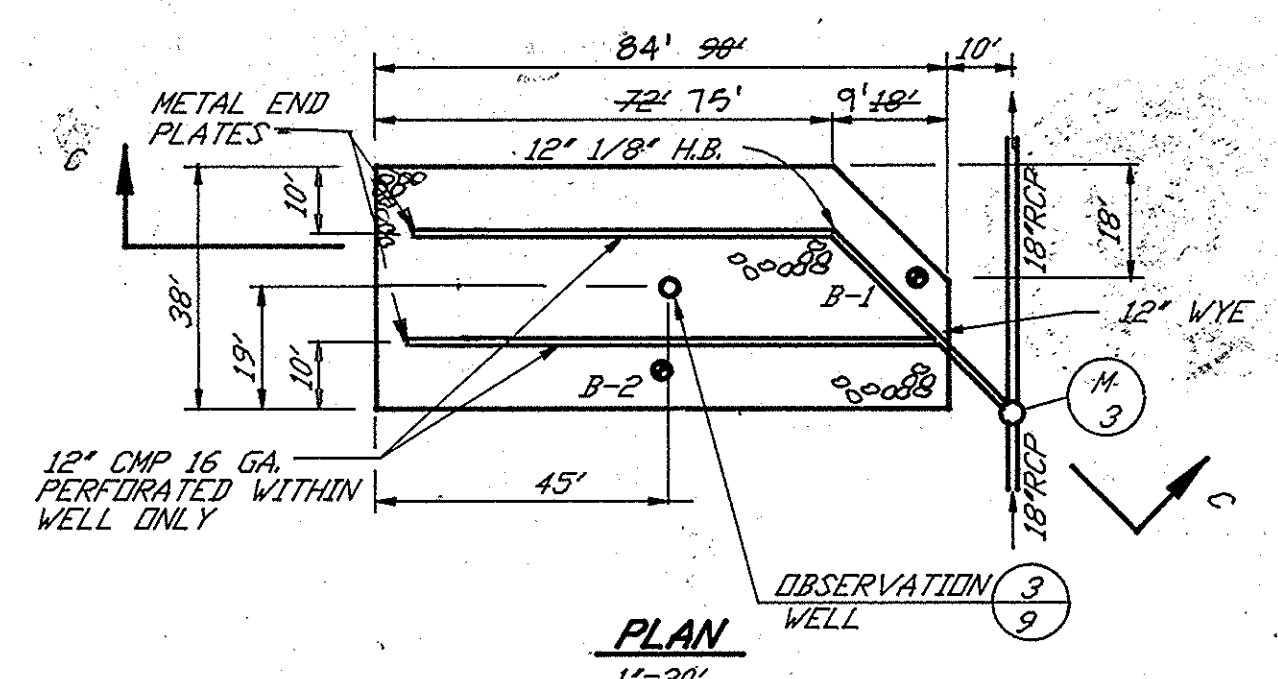
NOTE: DIL GRIT SEPARATOR SHALL BE CLEANED EVERY THREE MONTHS. PUMP ALL CHAMBERS DRY AND CLEAN THOROUGHLY. EFFLUENT SHALL BE DISCHARGED IN AN APPROVED SANITARY SEWER.

1 WATER QUALITY STRUCTURE (WR-1)
SCALE: 3/8"=1'-0"



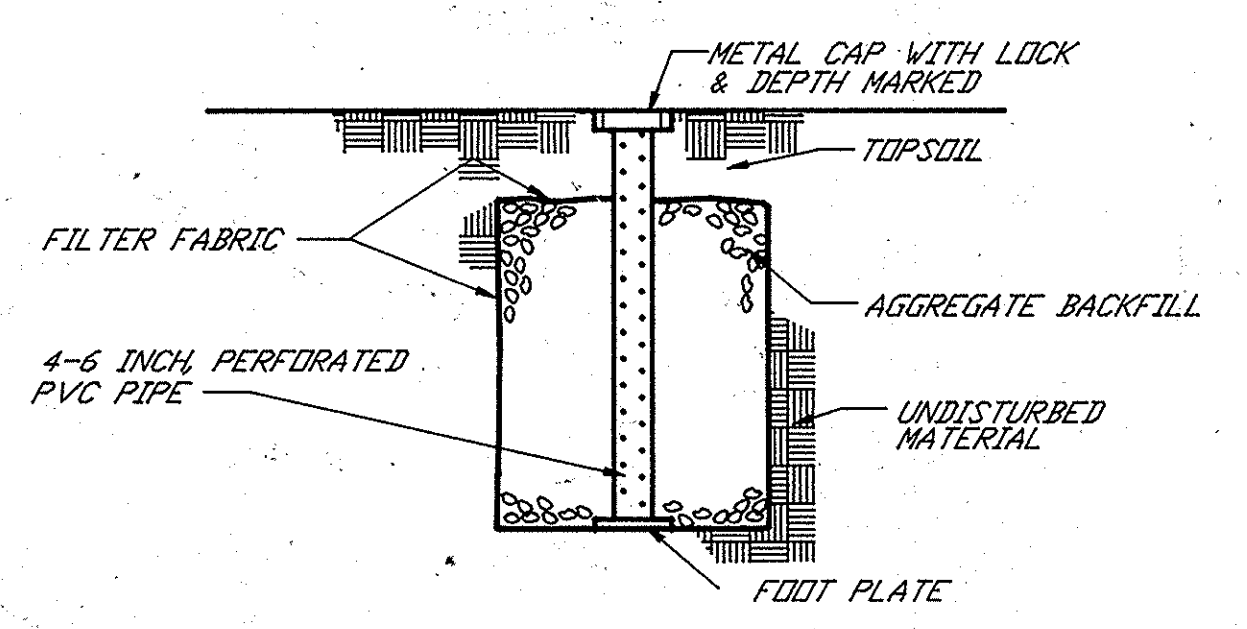
SECTION C-C
HORIZ. 1"=30'
VERT. 1"=3'

2 INFILTRATION DRYWELL
SCALE: 1"=30'

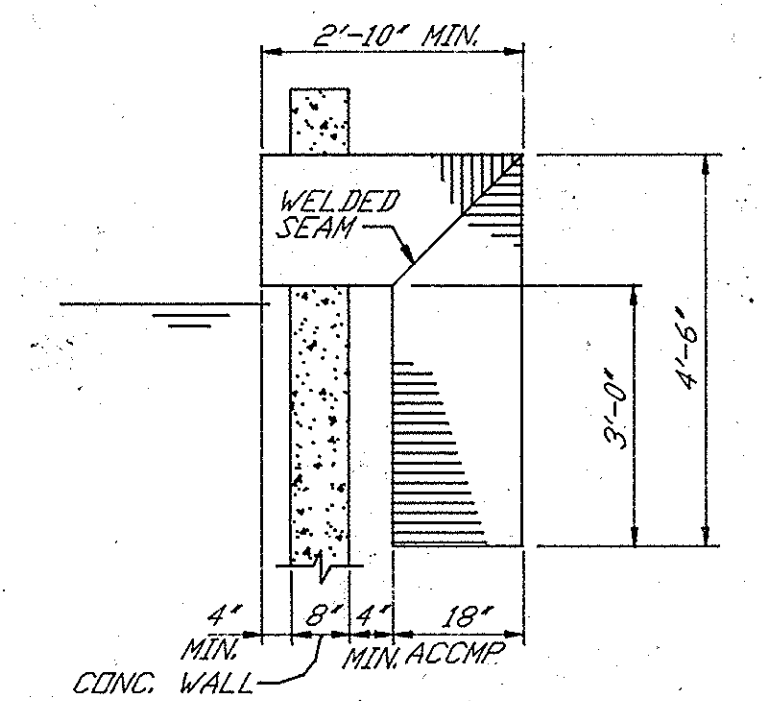


PLAN
1"=30'

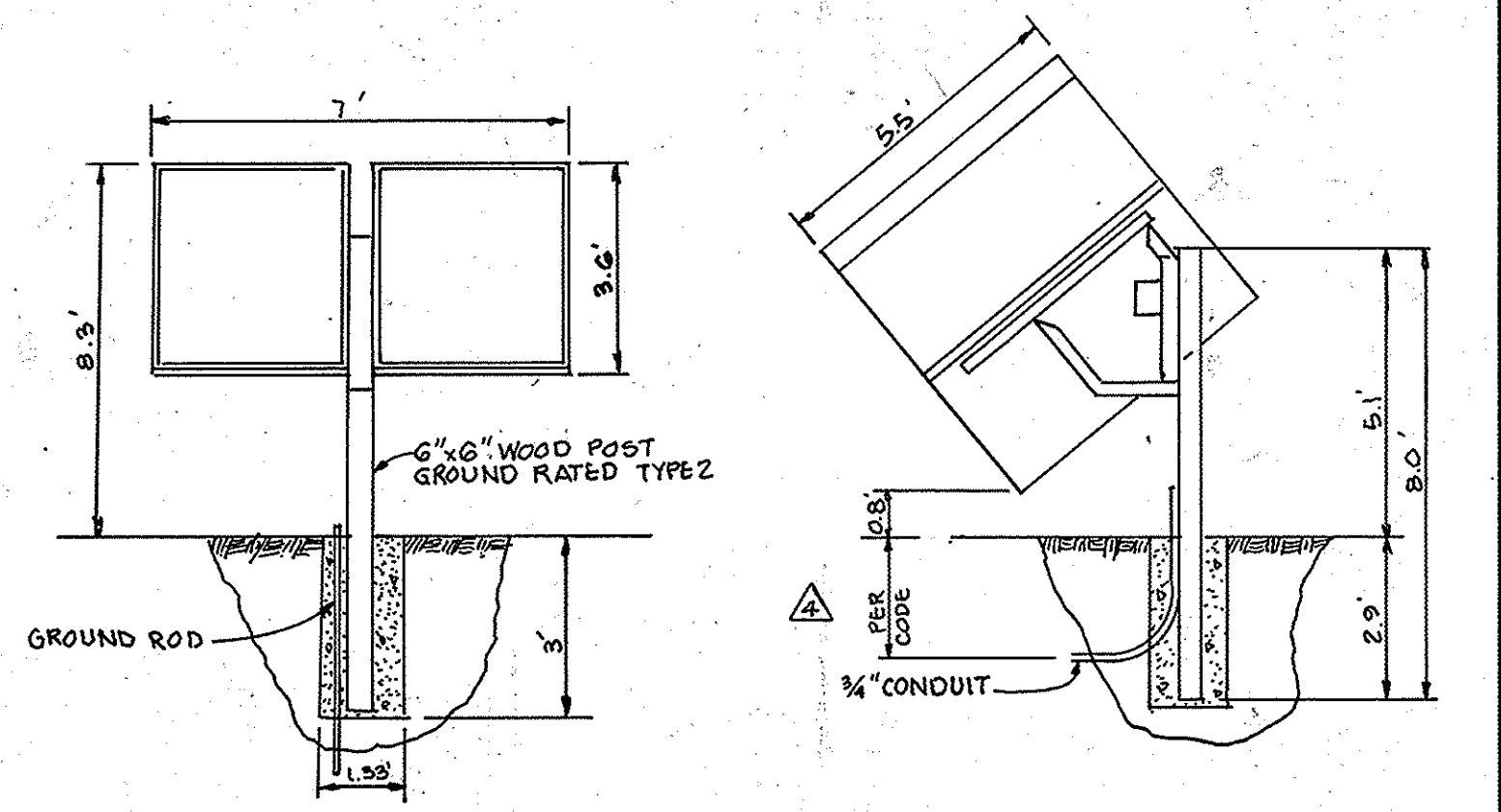
3 OBSERVATION WELL
SCALE: 1"=30'



3 OBSERVATION WELL DETAIL
NO SCALE



4 90° ACCMP ELBOW
NO SCALE



SOLAR PANEL DETAILS
NO SCALE



I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.

APPROVED
DATE: 11/15/94
COH

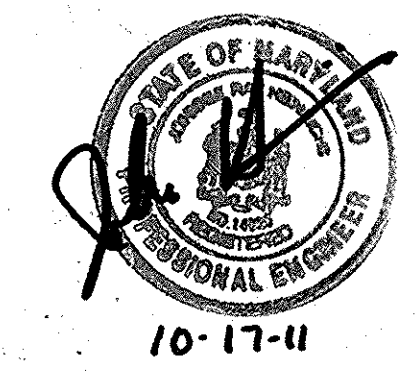
APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 11/15/94
COH

ADDRESS CHART	
LOT	STREET ADDRESS
105	6330 TROTTER ROAD
SUBDIVISION NAME: VILLAGE OF RIVER HILL	
SECTION/AREA: 2/30' 105	
PLAT/BLOCK: 11302 14 NT 35 5	
ZONING: DIST. CENSUS TR 6055	
WATER CODE: SEWER CODE:	

STORMWATER MANAGEMENT OPERATIONS AND MAINTENANCE SCHEDULE

- NOTES:
- OWNER SHALL MONITOR DRY WELL PERFORMANCE QUARTERLY AND AFTER EVERY RAINSTORM FOR THE FIRST YEAR AFTER INSTALLATION. A LOG SHALL BE KEPT TO DETERMINE THE DRAW DOWN RATE AND PERFORMANCE CHARACTERISTICS. MONITOR WELL ANNUALLY THEREAFTER UNLESS DATA INDICATES OTHERWISE.
 - OWNER SHALL MONITOR WATER QUALITY STRUCTURE PERIODICALLY AND CLEAN OUT STRUCTURE AS NEEDED. REMOVE WASTE FROM ALL CHAMBERS NOT LESS THAN FOUR TIMES ANNUALLY. ALL WASTE SHALL BE PROPERLY DISPOSED OF BY QUALIFIED PERSONS LICENSES AS REQUIRED BY LAW.

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE: 11/9/94
DIRECTOR: James J. Jones	DATE: 11/2/94
CHIEF, BUREAU OF ENGINEERING	DATE: 11/18/94
APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING	DATE: 11/21/94
DIRECTOR: James S. Smith	DATE: 11/18/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	DATE: 11/15/94
DIRECTOR: Joyce M. Boyd	
OWNER: HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY 10275 LITTLE PATENT RD PKVY COLUMBIA, MARYLAND 21044 (410) 592-6370	
DEVELOPER: COLUMBIA ASSOCIATION 10221 WINCOPIN CIRCLE COLUMBIA, MARYLAND 21044 (410) 715-3000	
DATE: 11/15/94	NO: 11/15/94
NO: 11/15/94	REVISION: ADDED SOLAR PANELS ALONG MD ROUTE 92



no.	description	date	prepared by
1	REV. PARKING	12/96	
2	REVISE LANDING	02/16	
3	REV. ADD SHS 1344		

RBA ENGINEERS - ARCHITECTS - PLANNERS
5560 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410/730-7950

DETAILS		SCALE AS SHOWN	
DRAWN	CHECKED	DATE	
ELB	JVC	9/94	
PROJ. NO. 10905	DATE: 9/94		
9	124		

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

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

DIRECTOR: *[Signature]* DATE: 11/9/94

CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 11/9/94

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: *[Signature]* DATE: 11/20/94

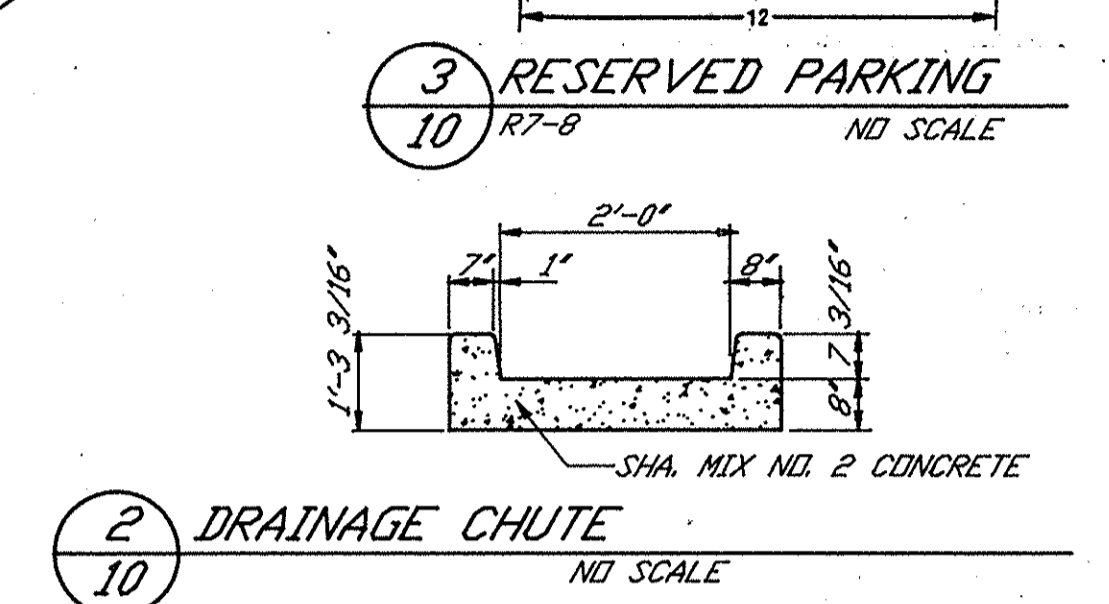
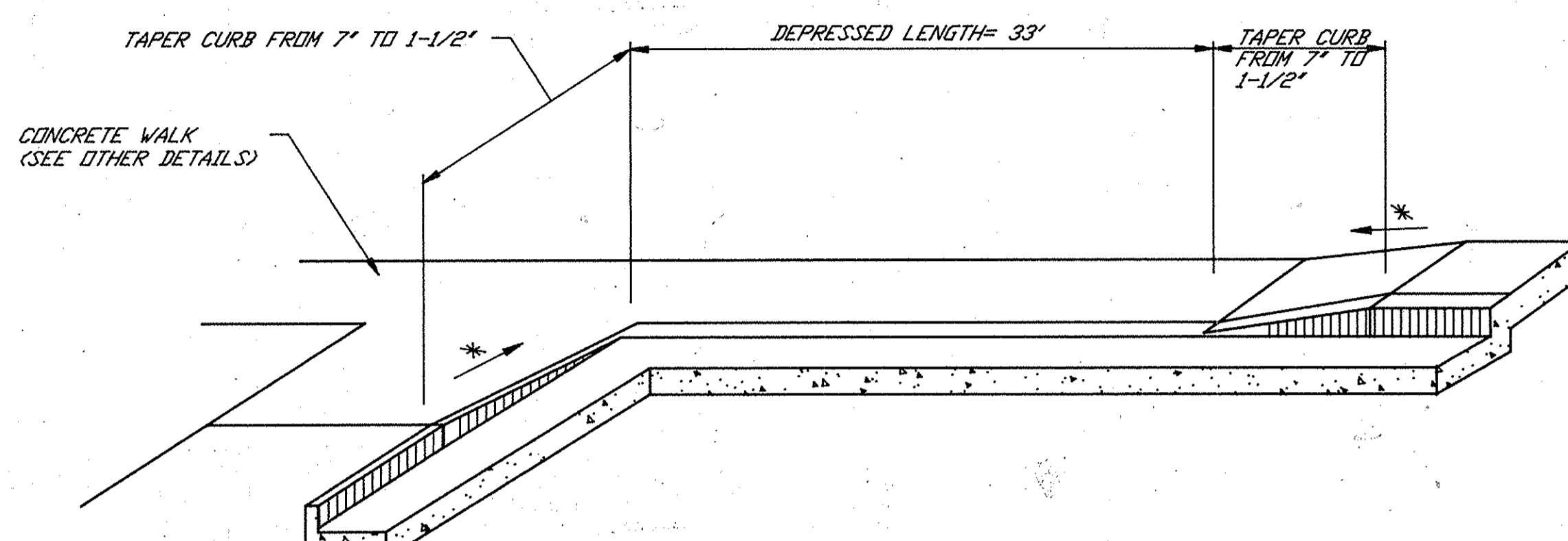
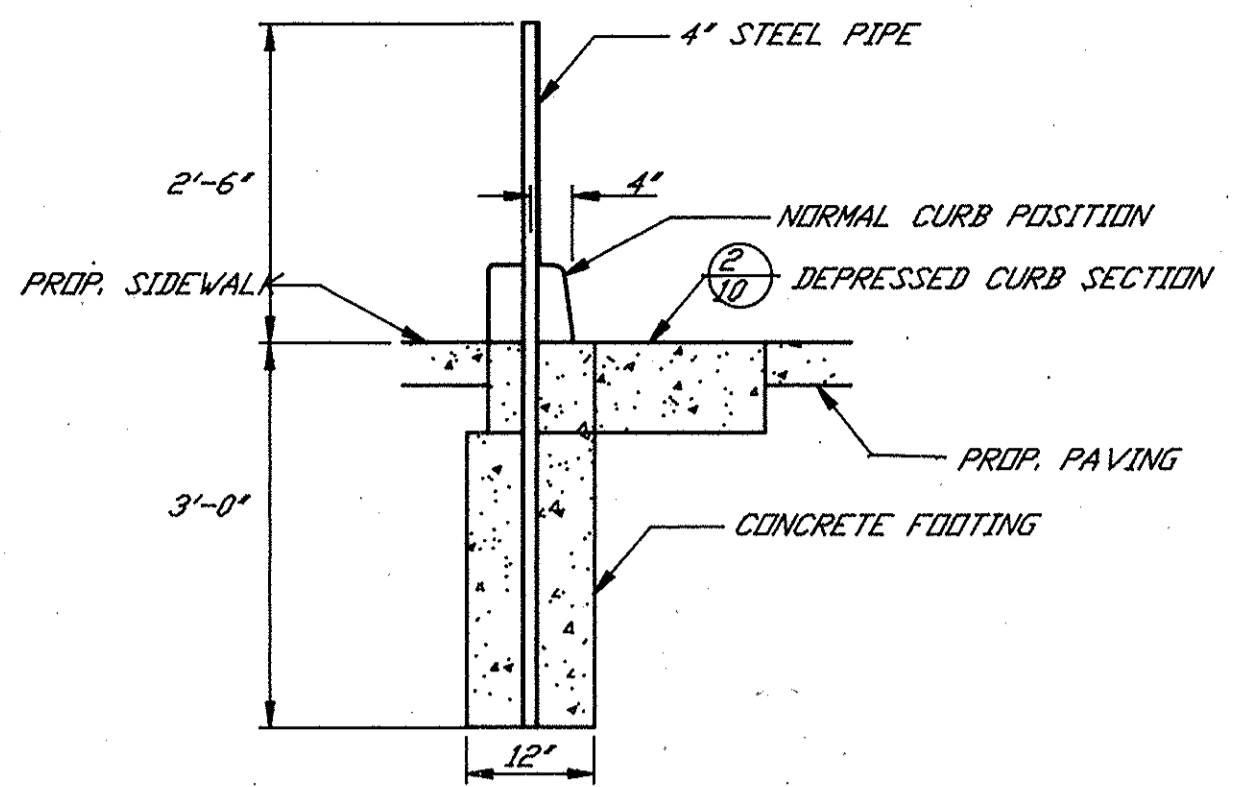
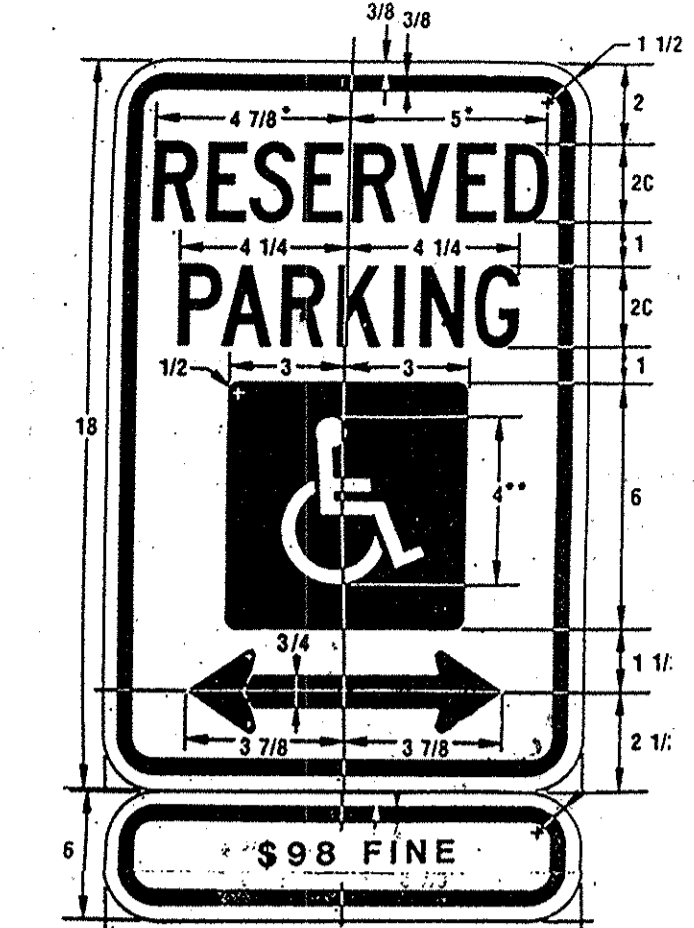
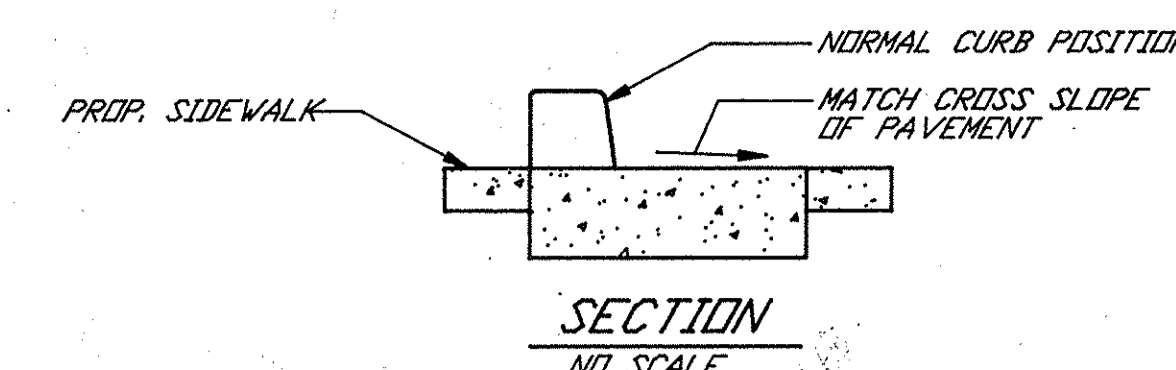
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: *[Signature]* DATE: 11/18/94

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT

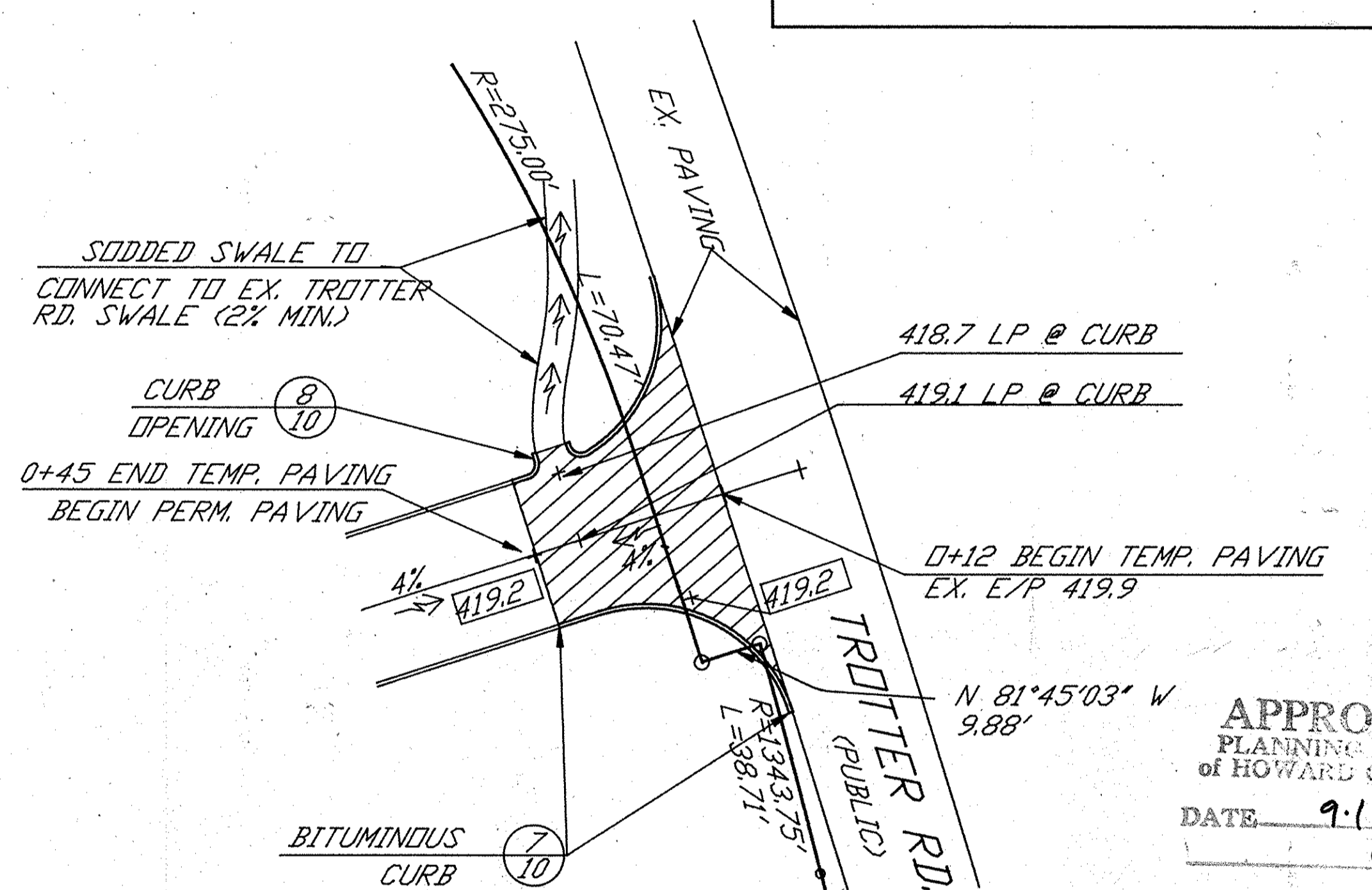
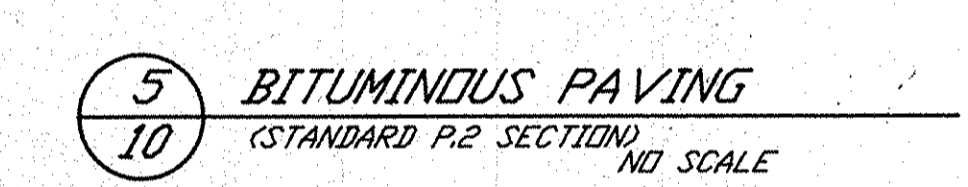
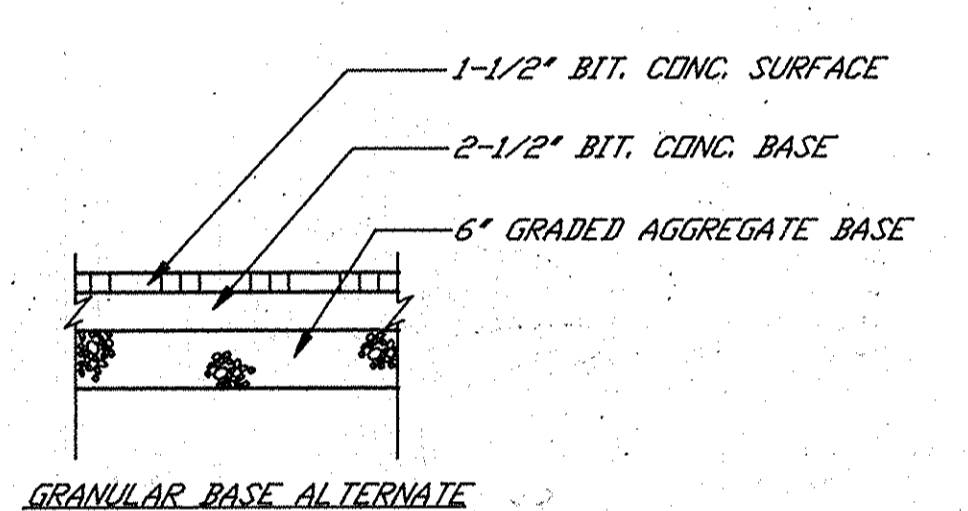
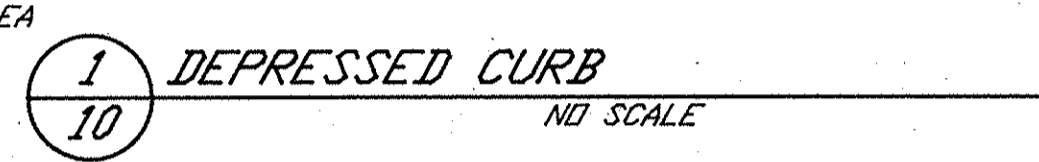
COUNTY HEALTH OFFICER: *[Signature]* DATE: 11/15/94

OWNER: HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY, 10225 LITTLE PATUMENT PKWY, COLUMBIA, MARYLAND 21044, (410) 592-6370

DEVELOPER: COLUMBIA ASSOCIATION, 10225 WINDSPIN CIRCLE, COLUMBIA, MARYLAND 21044, (410) 715-9000



* SLOPE OF TRANSITION AREA TO BE 5% MAX.



APPROVED PLANNING BOARD OF HOWARD COUNTY

DATE: 9.1.94

[Signature]

HERBST & ASSOCIATES - GEOTECHNICAL ENGINEERS

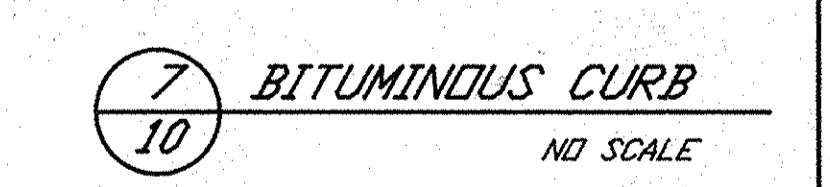
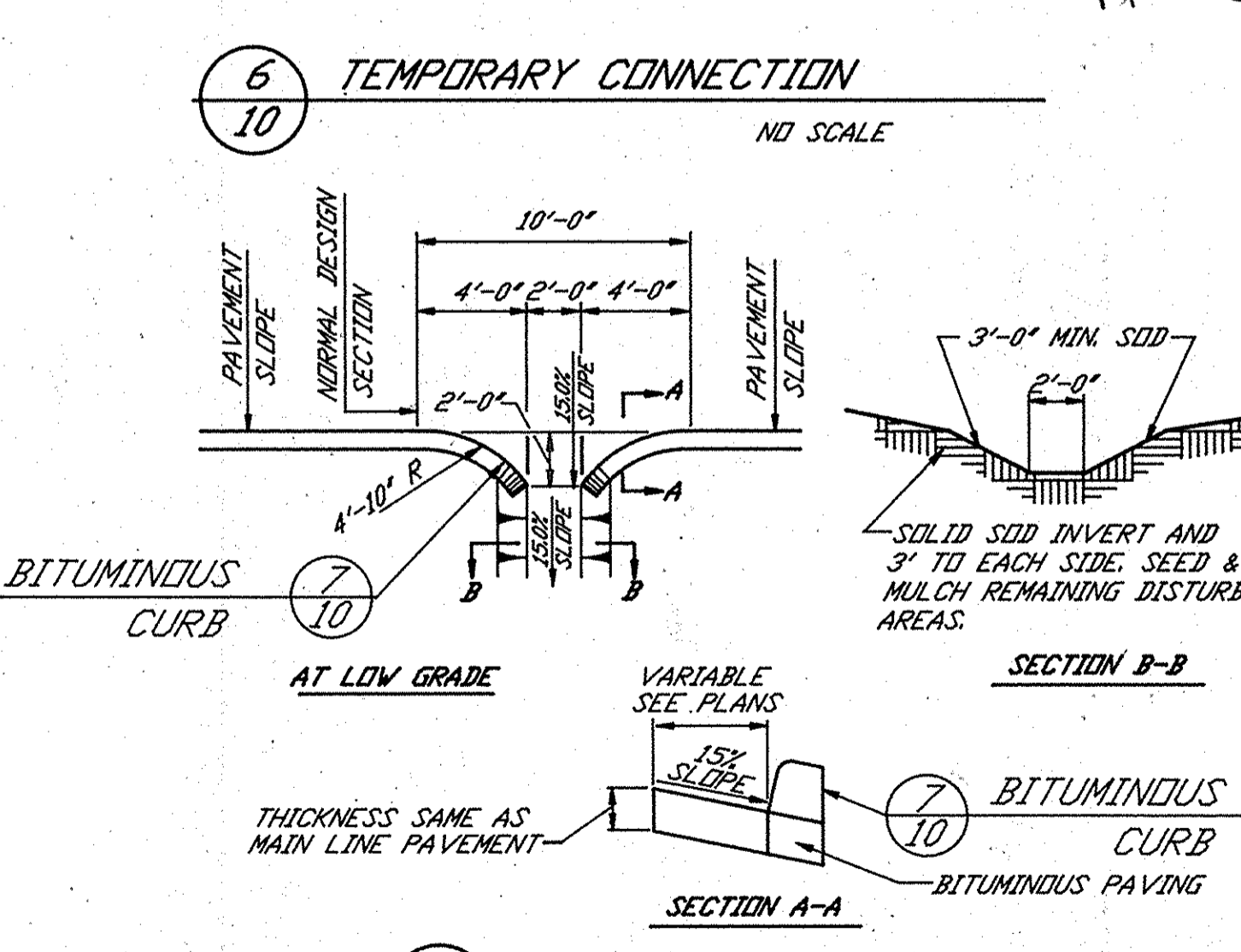
BORING	DEPTH (ft)	SOIL DESCRIPTION	REMARKS
B-3	0.0	Topsoil	
	0.4	Dark brown-brown-greenish brown moist slightly micaceous of SAND, and to some silt (Decomposed Rock) (SO) (Sandy Loam)	
B-4	0.4	Topsoil	
	3.0	Greenish brown-orange moist of SAND, some silt, little rock frags (Decomposed Rock) (SO) (Sandy Loam)	
B-5	0.4	Topsoil	
	7.0	White-tan moist of SAND, silt (Decomposed Rock) (SO) (Sandy Loam)	
B-6	0.2	Topsoil	
	2.5	Brown moist Clayey SILT, some of sand	

SECTION B-B

HERBST & ASSOCIATES - GEOTECHNICAL ENGINEERS

BORING	DEPTH (ft)	SOIL DESCRIPTION	REMARKS
B-1	0.4	Topsoil	
	4.5	Tan-light brown-gray slightly micaceous moist of SAND, some silt, little to trace rock frags (Decomposed Rock) (SO) (Sandy Loam)	
B-2	0.4	Topsoil	
	3.0	Orangeish brown moist Clayey SILT, some of sand, trace mica (NL) (Loam)	
B-7	0.4	Topsoil	
	7.0	Brown wet SILT & CLAY, and of sand, little rock frags (SH-SC) (Loam)	
B-8	0.4	Topsoil	
	11.0	Dark brown moist micaceous of SAND, some silt, some rock frags (Decomposed Rock) (SO) (Sandy Loam)	
B-9	0.3	Topsoil	
	4.5	Reddish brown-orangeish brown moist of SAND, and silt & clay, little rock frags	

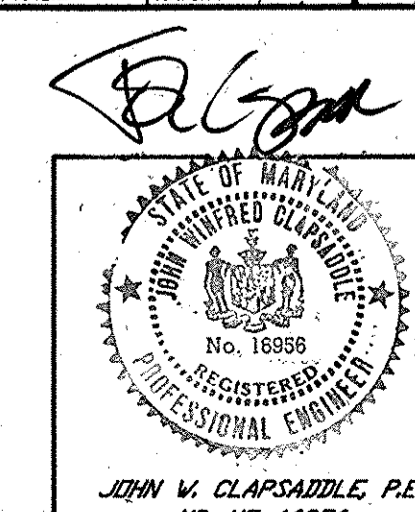
SECTION A-A



ADDRESS CHART

LOT	STREET ADDRESS
105	6330 TROTTER ROAD

SECTION A-A



REVISIONS

NO.	DESCRIPTION	DATE
1	REVISE LADING	02/16

PREPARED BY: RBA ENGINEERS, ARCHITECTS, PLANNERS

5560 STERRETT PLACE SUITE 300, COLUMBIA, MARYLAND 21044, 410-730-7850

DETAILS

RIVER HILL NEIGHBORHOOD POOL

SCALE: AS SHOWN

DRAWN: JAC, CHECKED: JVC

PROJ. NO: J0905, DATE: 9/7/94

10 SHEET OF 124

HOWARD COUNTY, MARYLAND

SDP 14.126

SEDIMENT AND EROSION CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS HERETO.
- FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN A SEVEN (7) CALENDAR DAYS FOR 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.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF THE SITE:	3.78	ACRES
AREA TO BE ROOFED OR PAVED:	3.78	ACRES
AREA TO BE VEGETATIVELY STABILIZED:	1.7	ACRES
TOTAL CUT:	3.7	ACRES
TOTAL FILL:		CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION:		CU. YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES, DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT CHANGES IN THE SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- AT THE END OF EACH WORK DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED AND LEFT IN THE OPERATIONAL CONDITION.
- ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HSCD AND AS AMENDED 6/1/90.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHT S-OF-WAYS THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK AND SHALL APPLY AS IF SHOWN ON ALL PLANS.
- THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL/STATE/COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES.

SEQUENCE OF CONSTRUCTION

- OBTAIN THE APPROPRIATE PERMITS, REQUEST UTILITY MARKINGS FROM MISS UTILITY AND THE APPROPRIATE UTILITY OWNERS.
- SCHEDULE AND CONDUCT A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED COUNTY INSPECTOR AND RESOLVE ANY ISSUES PRIOR TO BEGINNING.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, CLEAR AND GRUB AS NECESSARY TO INSTALL TRAP AND INSTALL CONSTRUCT EARTH DIKES, SILT FENCES AND ALL REMAINING SEDIMENT CONTROL DEVICES.
- OBTAIN COUNTY INSPECTOR APPROVAL FOR THE INSTALLATION OF ALL SEDIMENT CONTROL MEASURES BEFORE BEGINNING SITE GRADING OPERATIONS.
- CLEAR AND GRUB REMAINING SITE AREA AND BEGIN GRADING. IMMEDIATELY STABILIZE ALL AREAS UPON COMPLETION OF GRADING. MAINTAIN ALL SEDIMENT CONTROL DEVICES.
- UPON COMPLETION OF ROUGH GRADING BEGIN UTILITY, BUILDING AND POOL CONSTRUCTION.
- INSTALL STORM DRAIN INLETS AND PIPING, DELAYING CONSTRUCTION OF STORM PIPING IN SEDIMENT TRAP AREA TEMPORARILY DOWNGRADE TO RCP FROM MANHOLE M-2 AT TRAP CUT SLOPE. PROVIDE STABILIZATION AT CUTFALL. INSTALL INLET PROTECTION AT INLETS. OBTAIN INSPECTOR APPROVAL BEFORE BACK-FILLING UTILITIES.
- DELAY CONSTRUCTION OF INFILTRATION DRYWELL UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED AND/OR OVERTOPPED THROUGH STORM DRAIN SYSTEM. INSURE TEMPORARY BULKHEAD INSIDE MANHOLE M-3 IS IN PLACE PRIOR TO DRYWELL CONSTRUCTION.
- UPON COMPLETION OF PARKING LOT GRADING BEGIN CURB AND GUTTER CONSTRUCTION. INSTALL BASE COURSE PAVING UPON COMPLETION OF SUBGRADE INSTALLATION.
- BEGIN INFILTRATION DRYWELL CONSTRUCTION. INSTALL PERFORATED DISTRIBUTION PIPING BUT DO NOT ALLOW FLOWS TO ENTER DRYWELL.
- COMPLETE ALL BUILDING AND POOL CONSTRUCTION AND INSTALL ALL LANDSCAPING AND OTHER STABILIZATION.
- UPON COMPLETE STABILIZATION OF ALL AREAS, FLUSH STORM DRAIN SYSTEM. BEGIN TRAP REMOVAL AFTER INSPECTOR HAS GIVEN HIS APPROVAL TO DO SO. MAINTAIN A SILT FENCE ALONG DOWNSTREAM SLOPE OF TRAP DURING REMOVAL. COMPLETE REMAINING UTILITY WORK AND STABILIZE ALL AREAS.
- UPON COMPLETE STABILIZATION OF TRAP AREAS REMOVE BULKHEAD AND ALLOW FLOW TO ENTER DRYWELL.

PERMANENT SEEDING NOTES

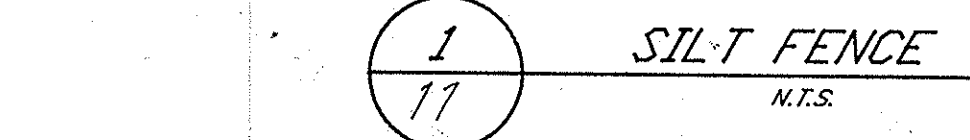
- APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: IN LIEU OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
- 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 DISK INTO UPPER THREE INCHES OF SOIL AT THE TIME OF SEEDING. APPLY 400 LB PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLMETRIC LIMESTONE (82 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.
- SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/100 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 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 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- MAINTENANCE - INSPECT AL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

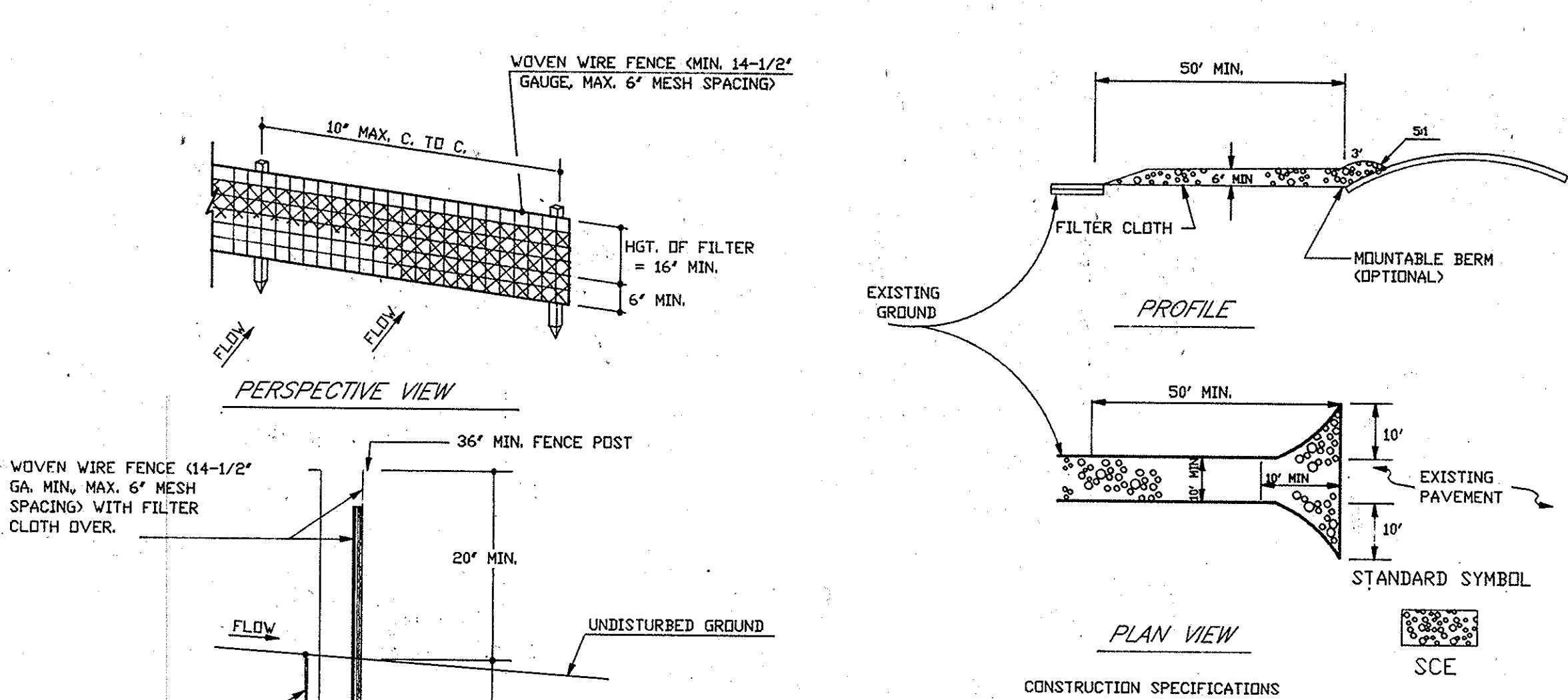
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.)
- SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (32 LBS/100 SQ. FT.) FOR THE PERIOD OF MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ. FT.) FOR THE PERIOD OF NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOD.
- MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

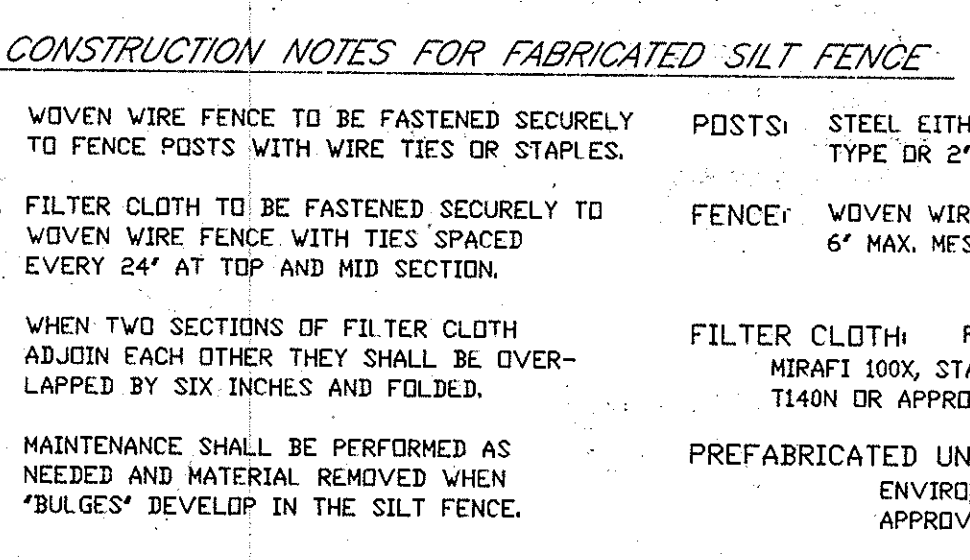
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X MIRAFI 100X, STABI-LINK T140N OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL



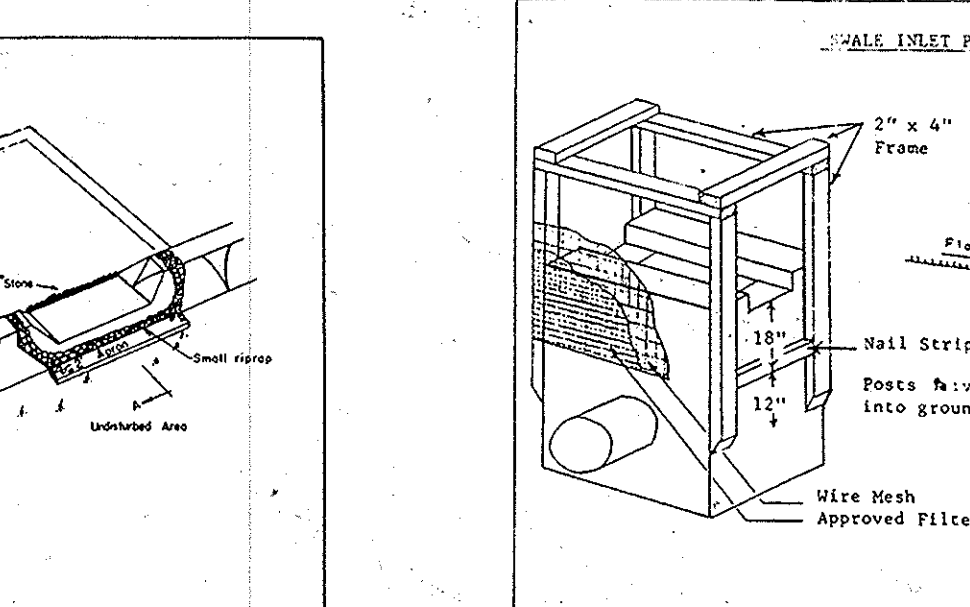
1 SILT FENCE N.T.S.



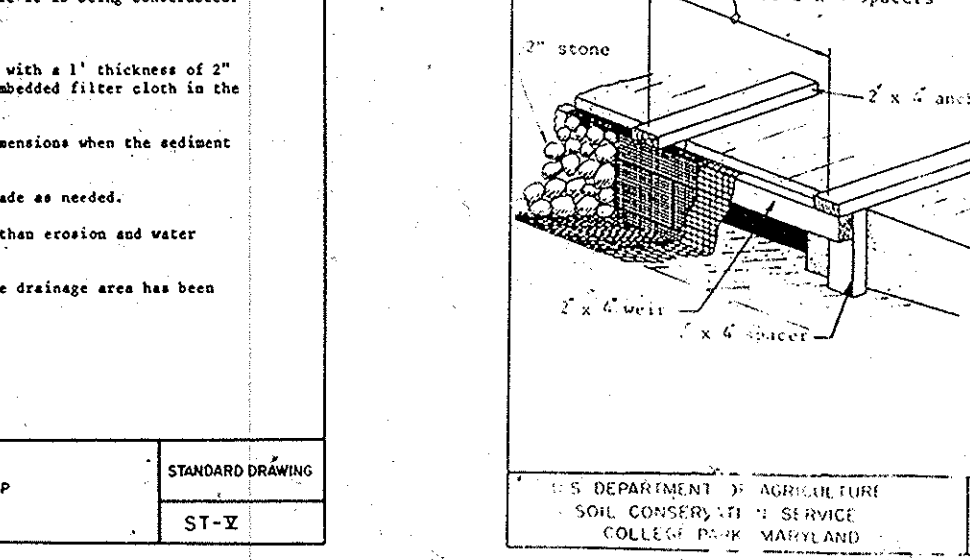
2 STABILIZED CONSTRUCTION ENTRANCE N.T.S.



3 STONE OUTLET SEDIMENT TRAP N.T.S.



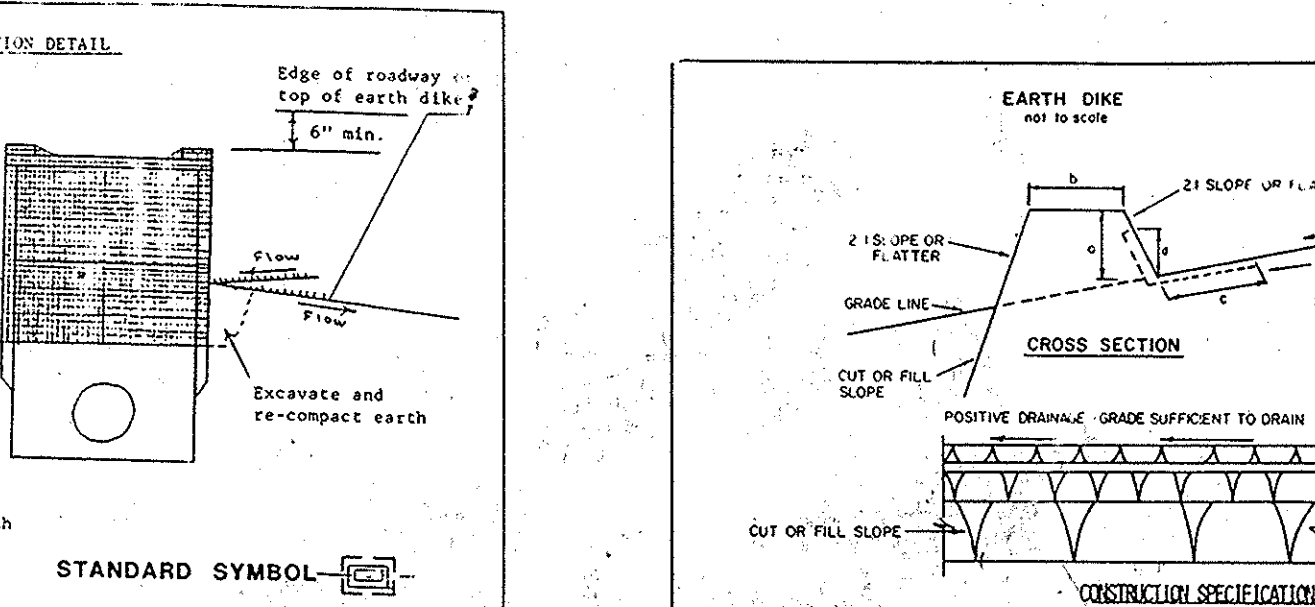
4 INLET PROTECTION DETAIL N.T.S.



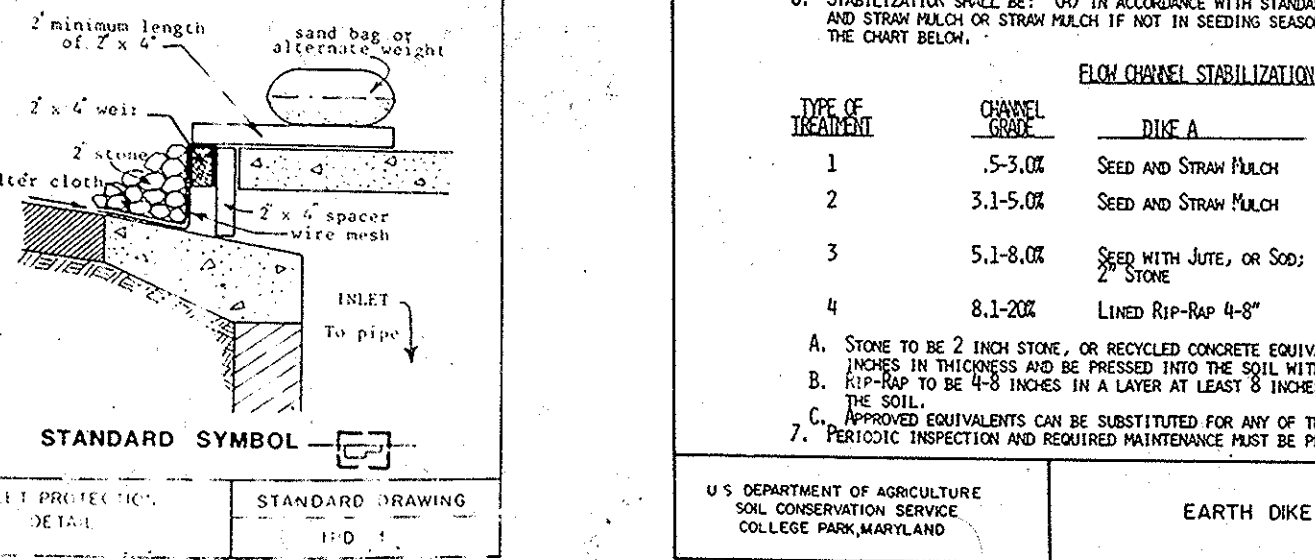
5 EARTH DIKE N.T.S.

- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT IN A RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE IN AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RUN.

6 INLET PROTECTION DETAIL N.T.S.



6 INLET PROTECTION DETAIL N.T.S.



7 EARTH DIKE N.T.S.

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

DIRECTOR: James J. Lee DATE: 11/19/94

CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 11/21/94

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: [Signature] DATE: 11/21/94

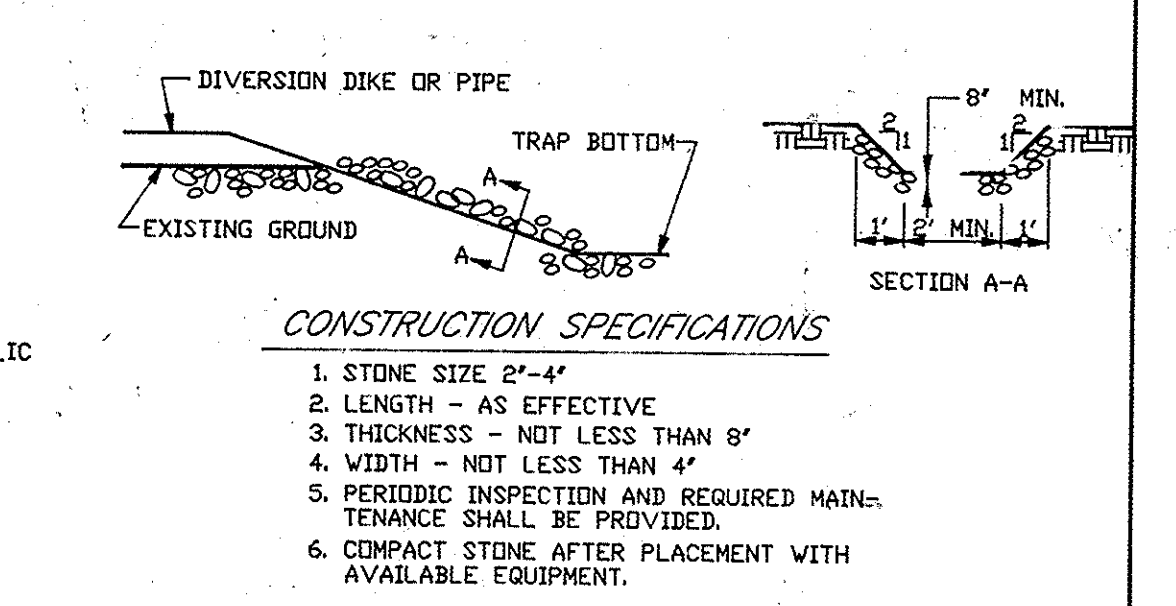
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: [Signature] DATE: 11/15/94

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

CHIEF HEALTH OFFICER: [Signature] DATE: 11/15/94

OWNER: HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY, 10275 LITTLE PATENT PKWY, COLUMBIA, MARYLAND 21044, (410) 592-6370

DEVELOPER: COLUMBIA ASSOCIATION, 10221 WINDSOR CIRCLE, COLUMBIA, MARYLAND 21044, (410) 715-3000



8 STONE STABILIZATION STRUCTURE N.T.S.

APPROVED PLANNING BOARD OF HOWARD COUNTY

DATE: 9/1/94 [Signature]

ADDRESS CHART	
LOT	STREET ADDRESS
105	6330 TROTTER ROAD

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
VILLAGE OF RIVER HILL	2/13 Phase 1	105
PLAT/BLOCK/ZONING/TAX ZONE	MAR/EEC/ DIST	GENSUS TR
11302 14 NT .35	5	6055

WATER CODE	SEWER CODE

DETAILS

RIVER HILL NEIGHBORHOOD POOL

SCALE AS SHOWN

DRAWN: JAC CHECKED: JWC

PROJ. NO: J0905 DATE: 9/94

11 SHEET 174

HOWARD COUNTY MARYLAND

Reviewed for HOWARD S.C.D. Name: [Signature] and meets Technical Requirements. Date: 11/19/94. Signature: [Signature]. U.S. Soil Conservation Service

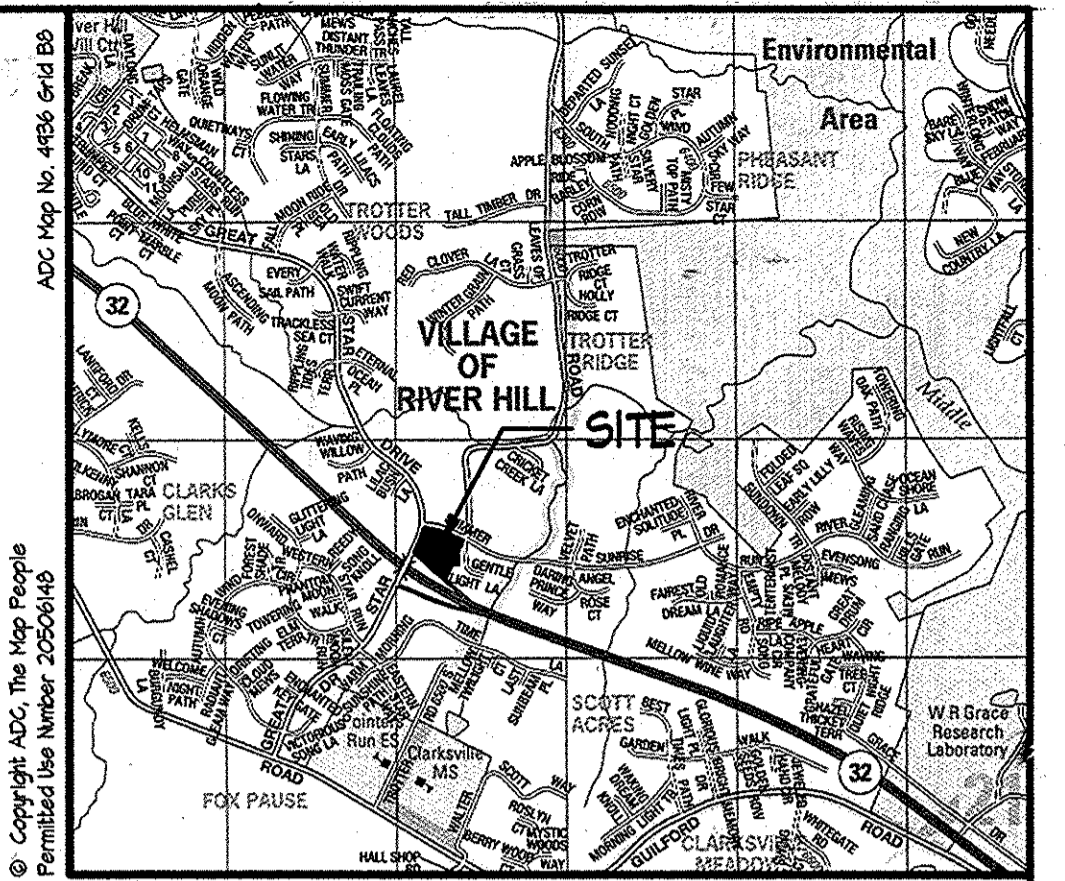
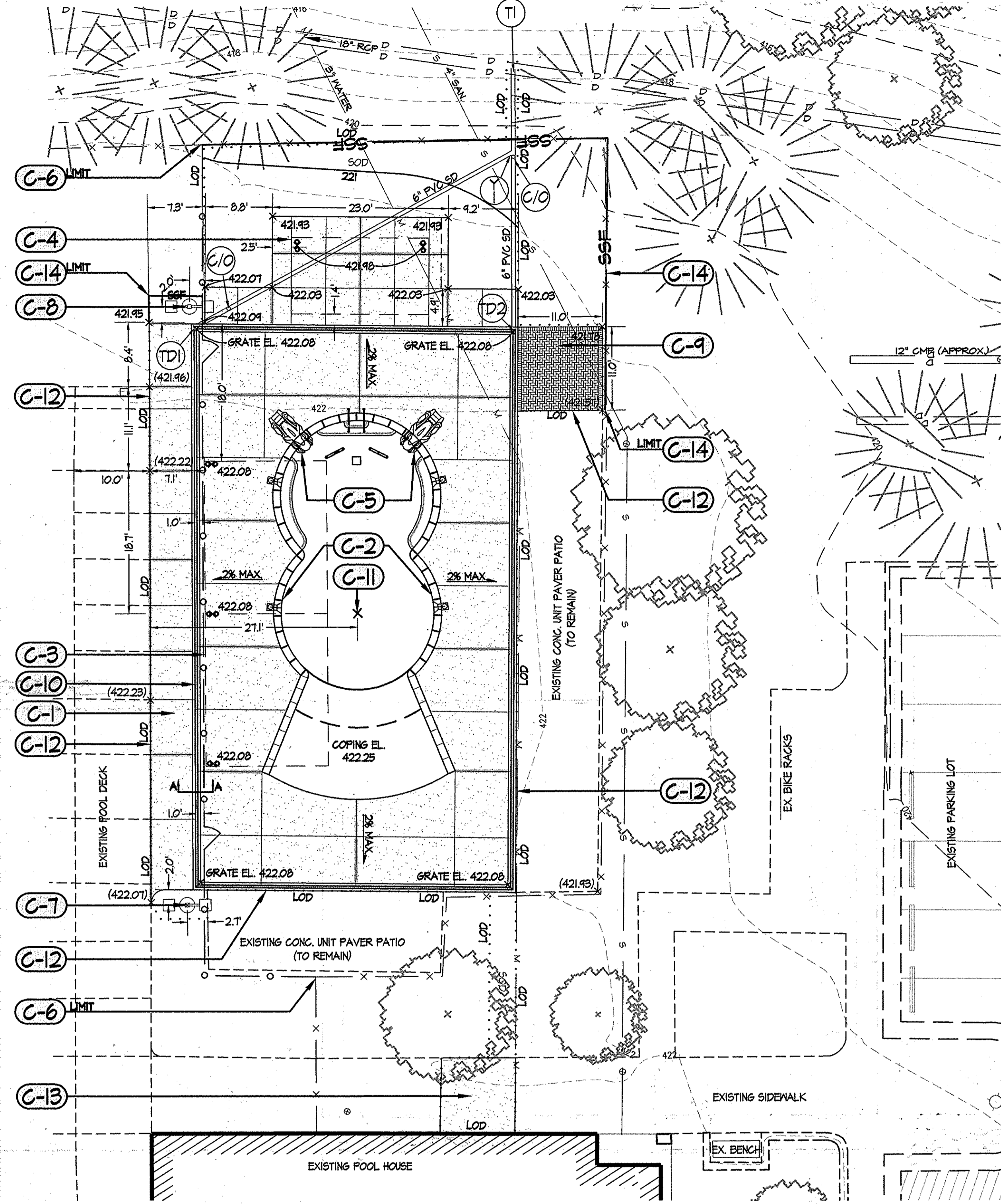
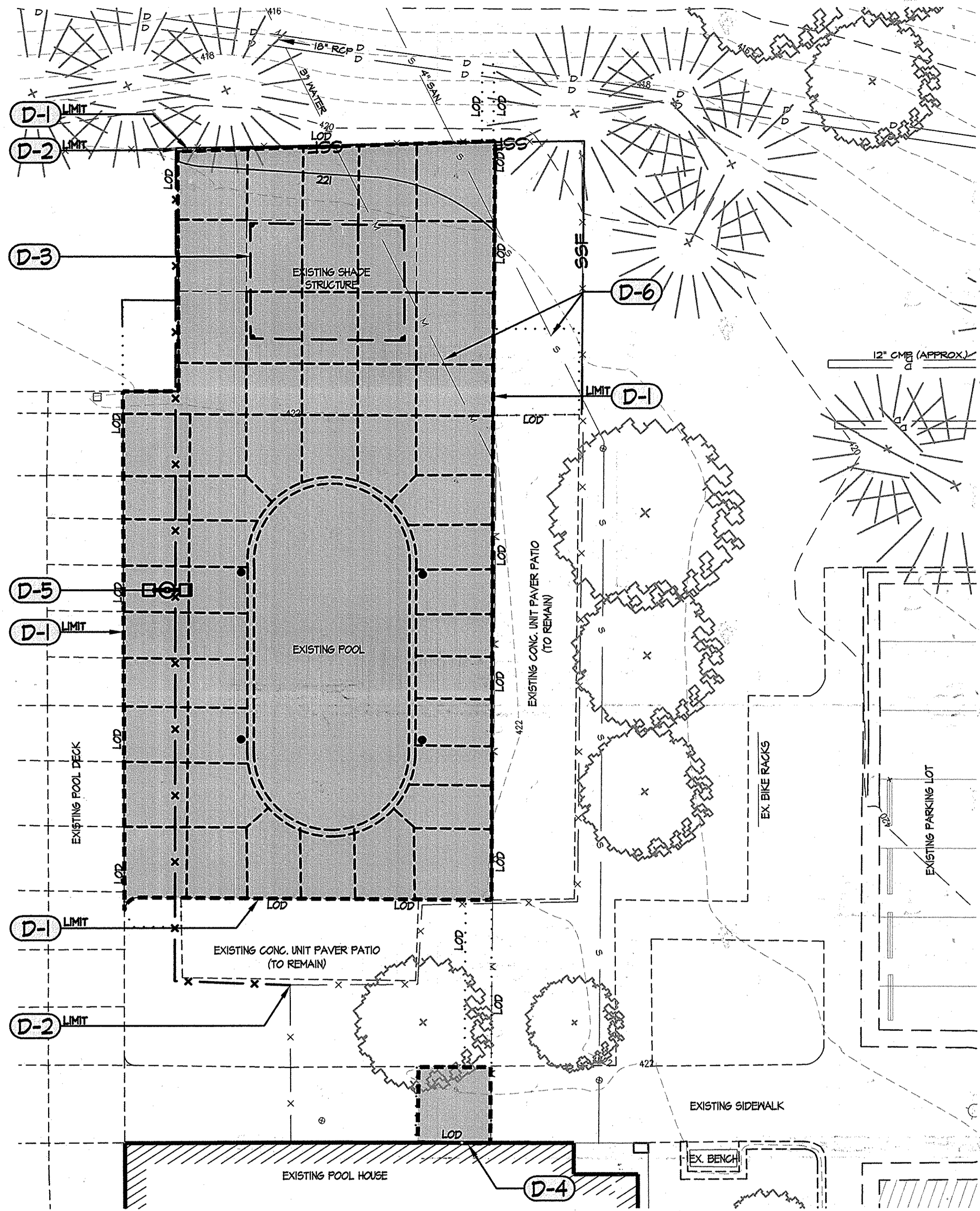
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved: [Signature] Date: 11/19/94. Howard B. B. L.

Professional Engineer Seal: JOHN W. BLOOM, No. 16956, PROFESSIONAL ENGINEER, CIVIL, STATE OF MARYLAND, No. 16956.

REVISIONS: 1. CHANGE WASTE PUMP TO ADD 5 HRS. PUMP. DATE: 02/16/94.

PREPARED BY: RBA ENGINEERS - ARCHITECTS - PLANNERS, 5560 STERRETT PLACE SUITE 300, COLUMBIA, MARYLAND 21044, 410/730-7950.



VICINITY MAP 1"=2000'

LEGEND

- EXISTING CONTOURS
- EXISTING TREES
- EXISTING MALK
- EXISTING ROAD
- EXISTING CURB
- EXISTING STORM DRAIN
- EXISTING WATER
- EXISTING SANITARY SEWER
- EXISTING LIGHTING TO BE REMOVED
- EXISTING BUILDING
- EXISTING ROAD TO REMAIN
- EXISTING FENCE TO BE REMOVED
- EXISTING POOL DECK TO BE REMOVED
- LIMIT OF DISTURBANCE
- PROPOSED LIGHTING
- PROPOSED STORM DRAIN
- PROPOSED CONCRETE POOL DECK
- PROPOSED CONCRETE UNIT PAVERS
- PROPOSED EXPANSION JOINT
- PROPOSED FENCE
- PROPOSED CONTOURS
- SPOT ELEVATIONS
- SUPER SILT FENCE

1 DEMOLITION PLAN

- DEMOLITION NOTES**
- D-1** REMOVE EXISTING POOL DECK TO LIMITS SHOWN
 - D-2** REMOVE EXISTING 4' FENCE TO LIMITS SHOWN
 - D-3** REMOVE AND SALVAGE EXISTING SHADE STRUCTURE. REMOVE FOOTINGS BELOW GRADE. REPLACE WITH APPROVED COMPACTED FILL. RELOCATE SHADE STRUCTURE AT OWNERS DIRECTION.
 - D-4** REMOVE EXISTING MALK TO NEAREST JOINT. SEE POOL ARCHITECTS PLANS FOR LOCATION OF PROPOSED PLUMBING LINES.
 - D-5** REMOVE AND SALVAGE EXISTING LIGHT POLE AND FIXTURE PER OWNERS DIRECTION.
 - D-6** PROTECT EXISTING UTILITIES TO REMAIN.

LIMIT OF DISTURBANCE NOTE
 AREA OF LIMIT OF DISTURBANCE (LOD) = 4,412 SF, AND THEREFORE IS EXEMPT FROM STORMWATER MANAGEMENT. CONTRACTOR MUST MAINTAIN LOD BELOW 5,000 SF AT ALL TIMES DURING CONSTRUCTION. ANY ADDITIONAL DISTURBANCE OVER 5,000 SF (INCLUDING THIS PLAN) SHALL MEET CURRENT STORMWATER MANAGEMENT REQUIREMENTS.

2 LAYOUT, GRADING, AND MATERIALS PLAN

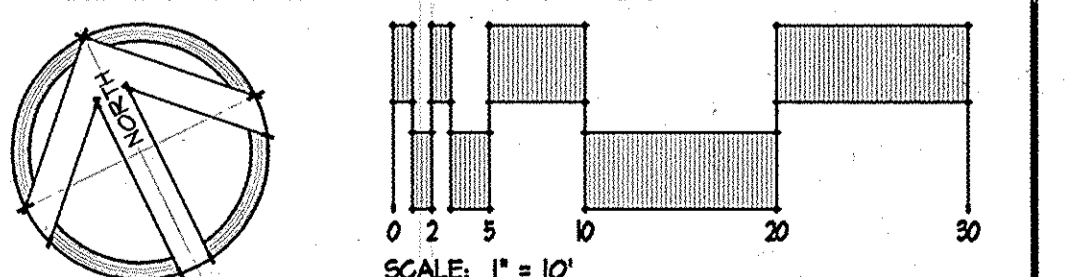
- CONSTRUCTION NOTES**
- C-1** PROPOSED CONCRETE POOL DECK (SEE DETAIL 3-SHEET C1.02)
 - C-2** PROPOSED POOL (SEE POOL CONSULTANT PLANS)
 - C-3** PROPOSED 40'X15' SHADE STRUCTURE (SEE DETAIL 2-SHEET C1.02)
 - C-4** PROPOSED 20'X10' SHADE STRUCTURE (SEE DETAIL 1-SHEET C1.02)
 - C-5** PROPOSED SLIDE(S) (SEE POOL CONSULTANT PLANS)
 - C-6** PROPOSED FENCE (SEE DETAIL 8A AND 8B -SHEET C1.02)
 - C-7** PROPOSED DUAL-HEAD POLE AND LIGHT FIXTURE (SEE MEP PLANS)
 - C-8** SALVAGED POLE LIGHT AND FIXTURE MOUNTED ON NEW CONCRETE POLE BASE (SEE MEP PLANS)
 - C-9** PROPOSED UNIT PAVER PATIO EXPANSION, MATCH EXISTING PAVER PATTERN. (SEE DETAIL 4-SHEET C1.02)
 - C-10** PROPOSED TRENCH DRAIN (SEE DETAIL 7-SHEET C1.02)
 - C-11** PROPOSED CENTER POINT OF POOL (SEE POOL CONSULTANT PLANS)
 - C-12** MATCH EXISTING IN LINE AND GRADE
 - C-13** INSTALL CONCRETE PAD. MATCH EXISTING IN LINE AND GRADE (SEE DETAIL 3-SHEET C1.02)
 - C-14** INSTALL SUPER SILT FENCE AS SHOWN ON PLANS AND PER 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

DATA SOURCES (SHEETS 13 & 14 ONLY)
 EXISTING CONDITIONS SHOWN ON THESE PLANS ARE FROM A FIELD RUN SURVEY PERFORMED BY ALR & ASSOCIATES, LLC, DATED 8/29/15. THE ELEVATIONS AND THE CONTOURS SHOWN HEREON ARE BASED ON NAVD 88 VERTICAL DATUM.

GENERAL NOTES

- G-1** ALL MATERIALS AND CONSTRUCTION PRACTICES SHALL MEET HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
- G-2** ALL DISTURBED AREAS SHALL BE RESTORED FOLLOWING MARYLAND B-4-S STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION.

PURPOSE NOTE
 THE PURPOSE OF THIS PLAN IS TO REPLACE THE EXISTING WADING POOL WITH A NEW ZERO-DEPTH ENTRY POOL WHICH WILL CONFORM TO ACCESSIBILITY REQUIREMENTS SURROUNDING SUCH SITE FEATURES.



APPROVED: DEPARTMENT OF PLANNING & ZONING
Valerie Aguiar
 DIRECTOR
 DATE: 3-10-16
 DATE: 3-7-16
 DATE: 3-10-16

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: _____

ADDRESS / PERMIT INFORMATION
 PARCEL 04010
 ADDRESS: 6950 TROTTER ROAD
 OWNER: COLUMBIA ASSOCIATION
 10221 PINCOPIN CIRCLE, SUITE 100
 COLUMBIA, MD 21044
 PHONE (410) 253-0291
 DEVELOPER: HOWARD RESEARCH AND DEVELOPMENT
 LAND COMPANY
 10715 LITTLE PATENT PARKWAY
 COLUMBIA, MARYLAND 21044
 PHONE (410) 422-6870

SITE RESOURCES
 Incorporated
 Comprehensive Land Planning & Site Design Services
 14515 Janelleville Pike • Phoenix, Maryland 21131
 (410) 682-3388 • fax (410) 682-3389

DES: BVN	REVISE WADING POOL. ADD SHEETS 13 & 14	2/2016
DRN: BVN		
CHK: SAM		
DATE: 02/08/16	BY NO. REVISION	DATE

PERMIT INFORMATION CHART		
SUBDIVISION NAME VILLAGE OF RIVER HILL	SECTION/AREA 2 / 3	LOT/PARCEL NO. 0436
PLAT # OR L/F 11302	GRID # 0014	ZONING NT
TAX MAP NO. 0035	ELECTION DISTRICT 15	GENUS TRACT 605505
WATER CODE	SEWER CODE	

DEMOLITION, GRADING, LAYOUT, AND DETAIL REFERENCE PLAN
RIVER HILL POOL
 OWNER: COLUMBIA ASSOCIATION

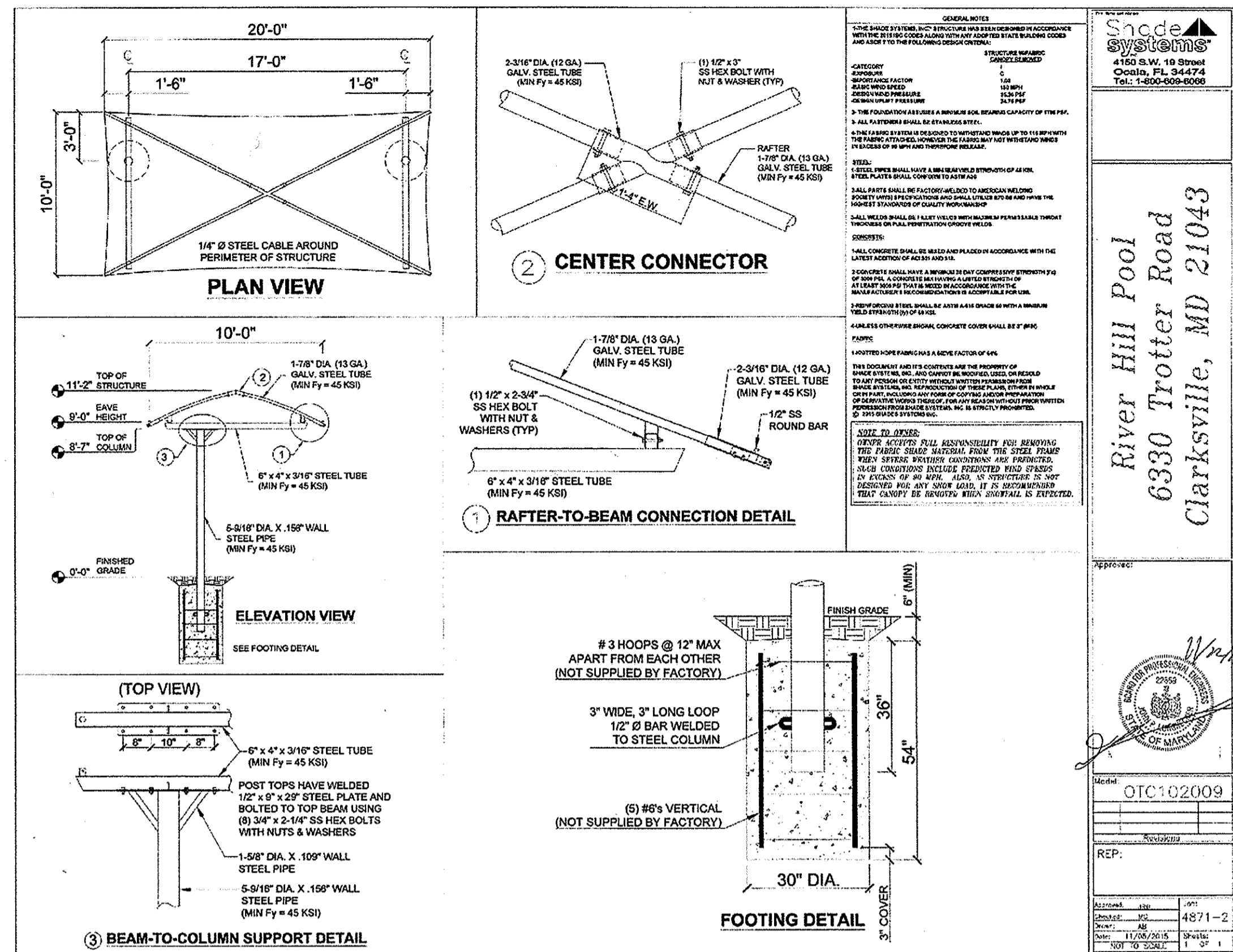
SRI NO: 15080 HOWARD COUNTY, MARYLAND

SCALE 1" = 10'

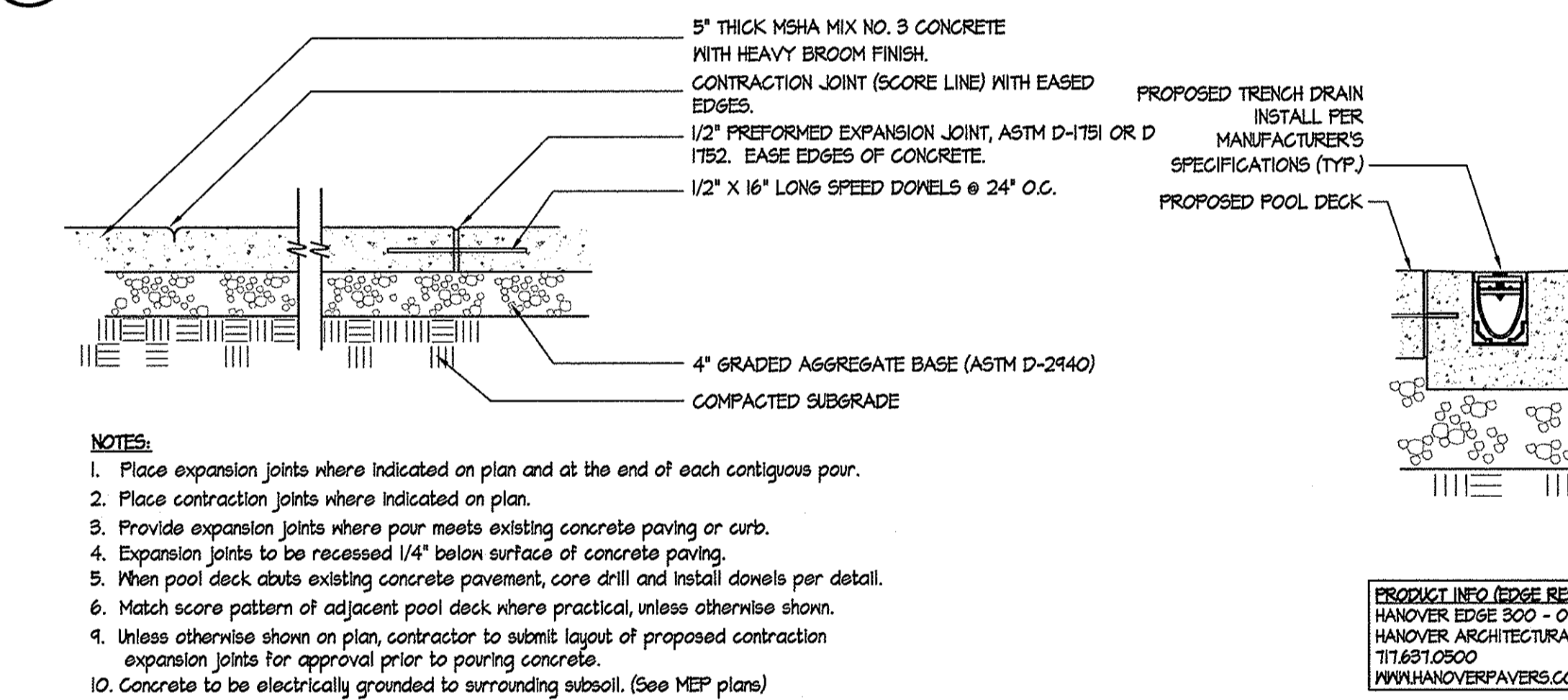
C1.01 SHEET 13 OF 14

SDP-44-126

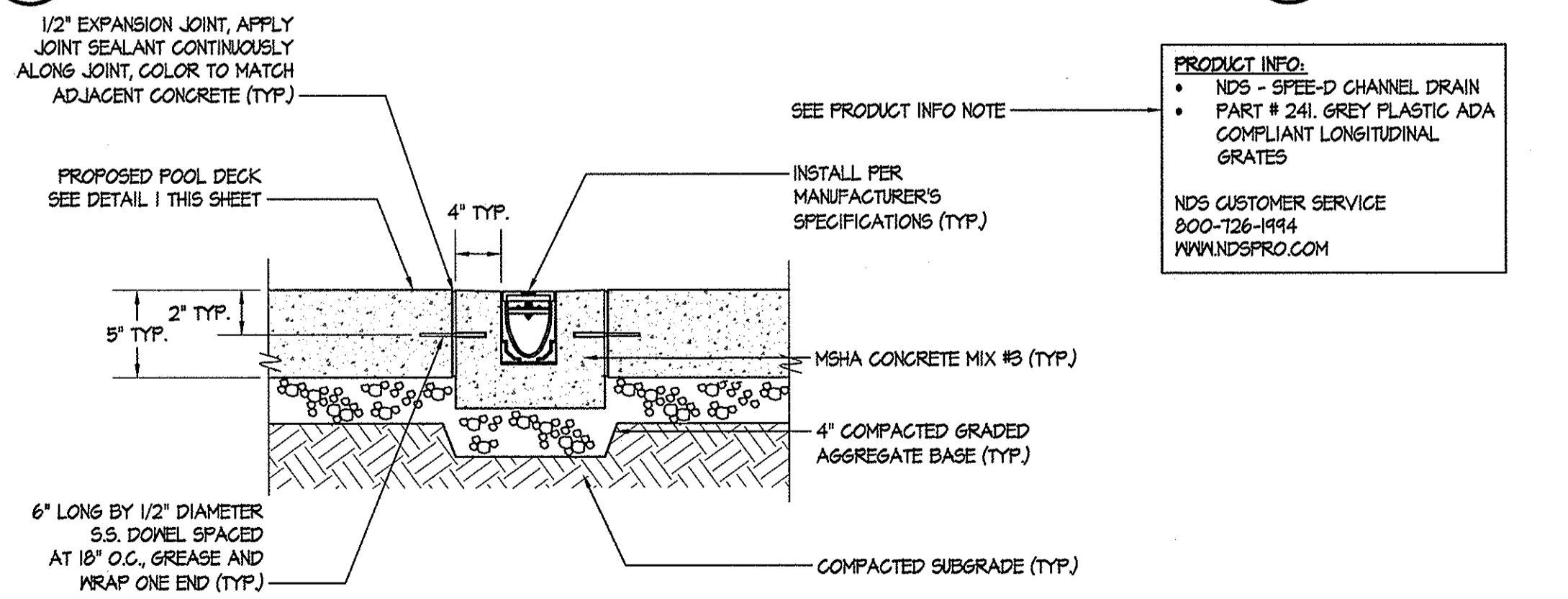
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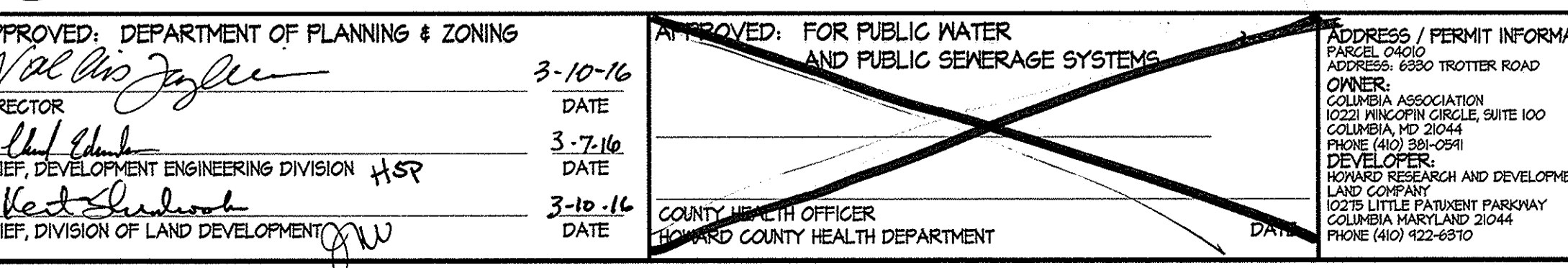
1 20' X 10' SHADE STRUCTURE
STRUCTURE DETAILS FOR REFERENCE ONLY, SEE ORIGINAL STRUCTURE PLANS FOR CONSTRUCTION. NOT TO SCALE



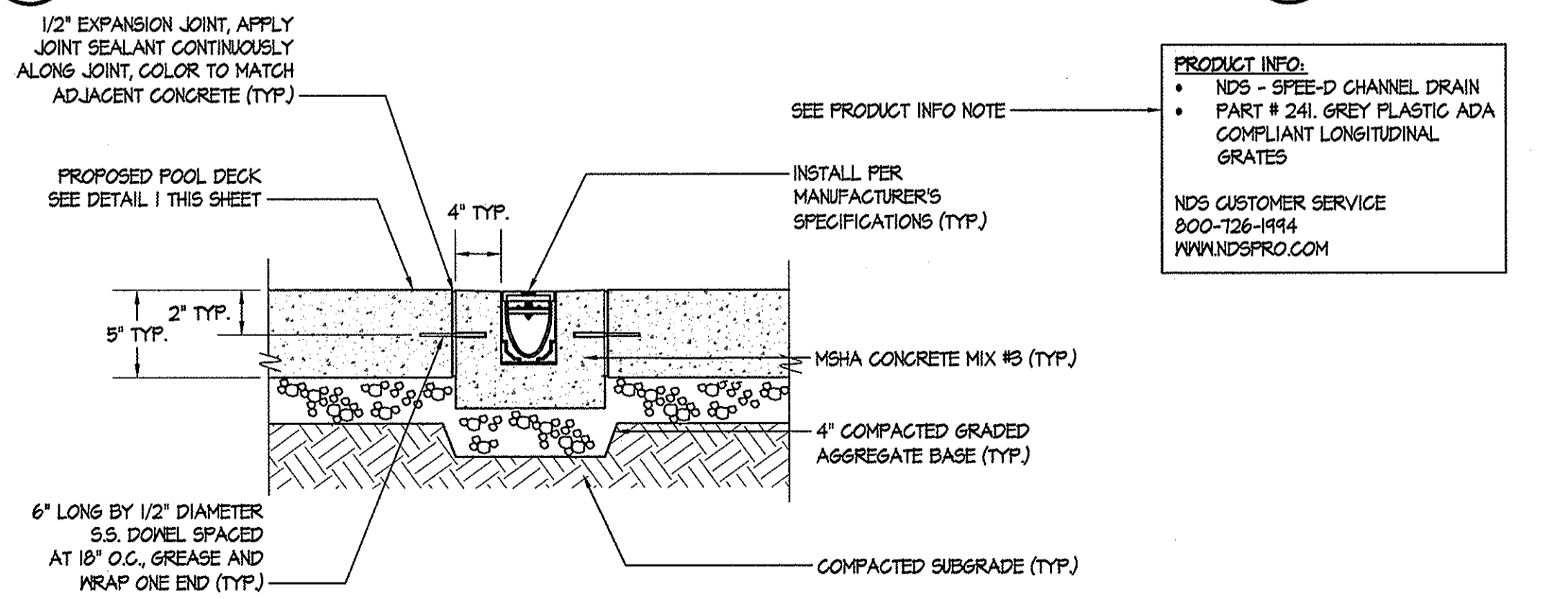
2 40' X 15' SHADE STRUCTURE
STRUCTURE DETAILS FOR REFERENCE ONLY, SEE ORIGINAL STRUCTURE PLANS FOR CONSTRUCTION. NOT TO SCALE



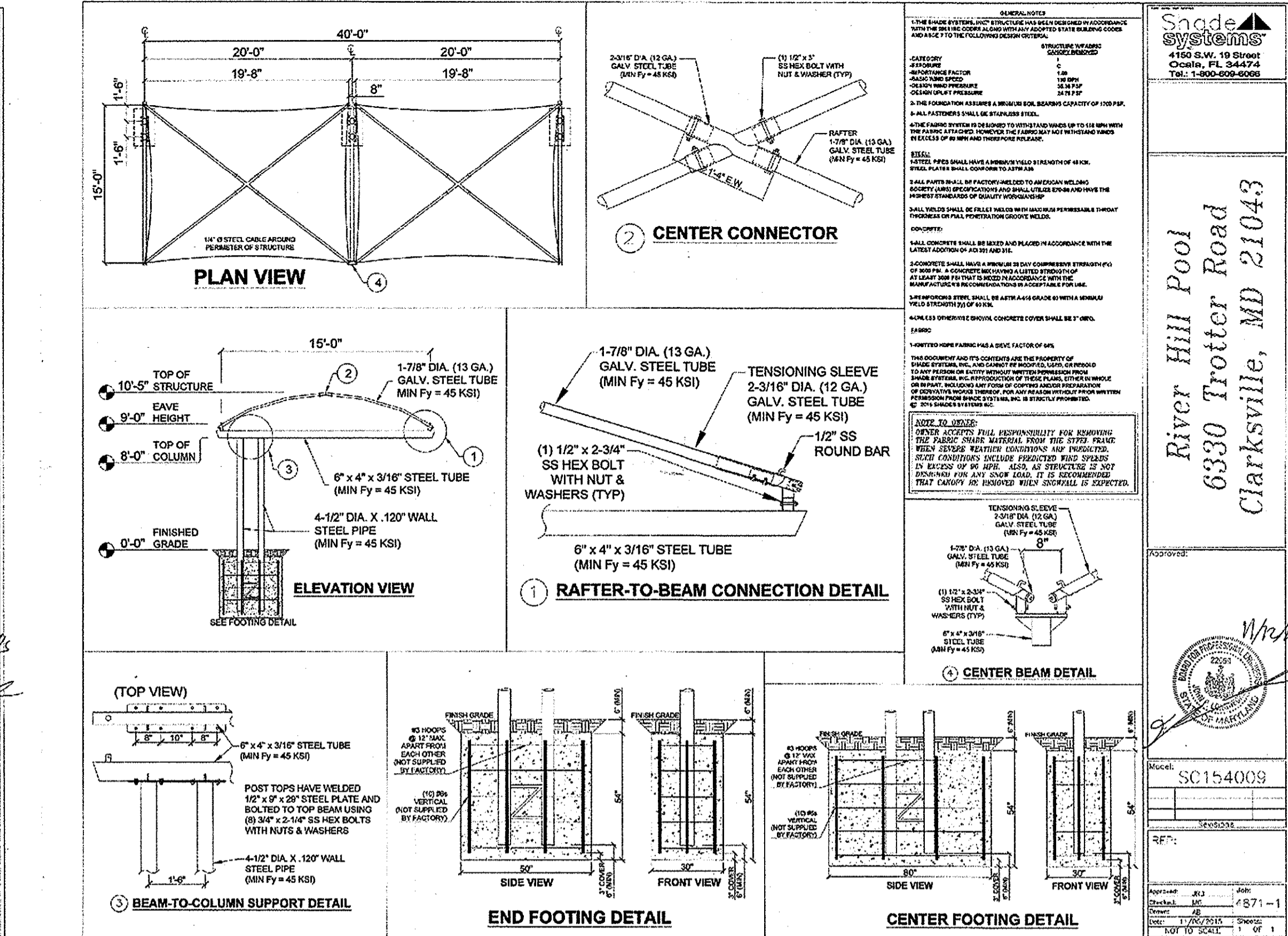
3 CONCRETE POOL DECK
NOT TO SCALE



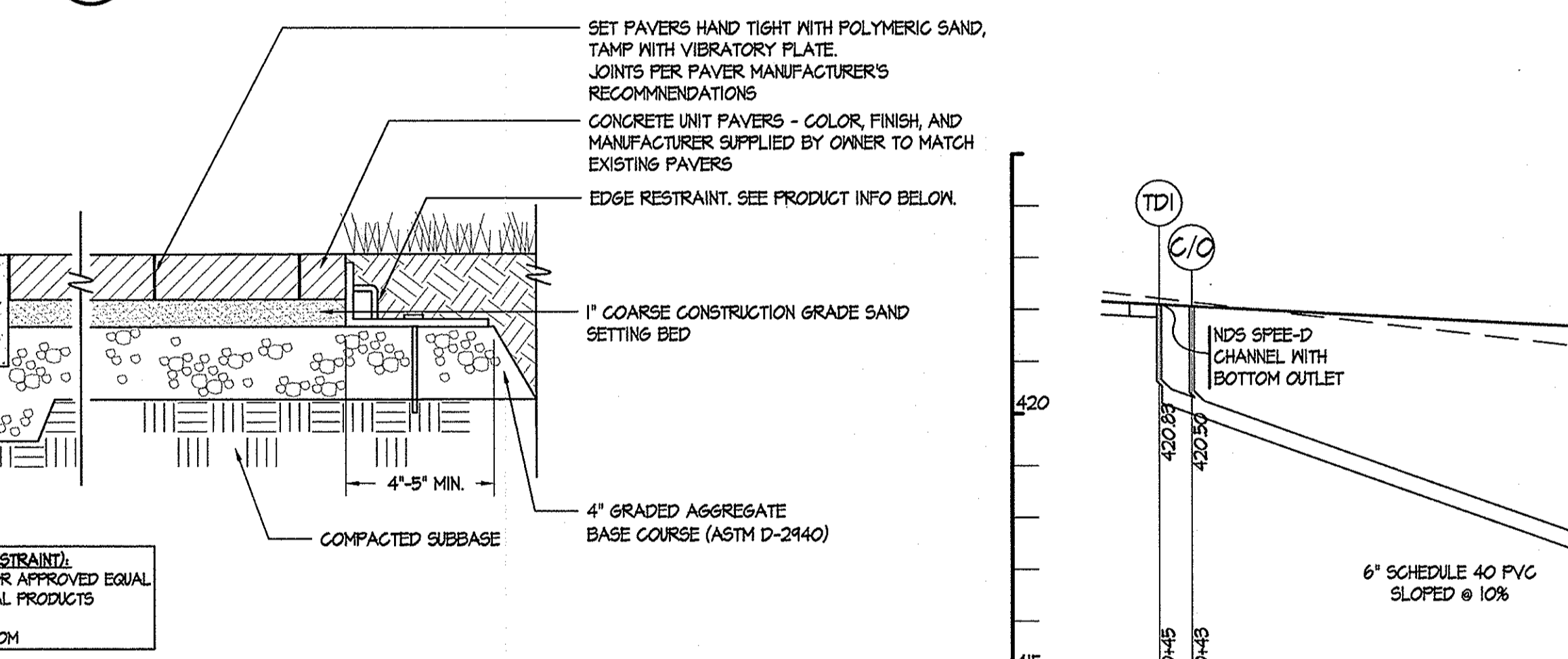
4 CONCRETE UNIT PAVERS
NOT TO SCALE



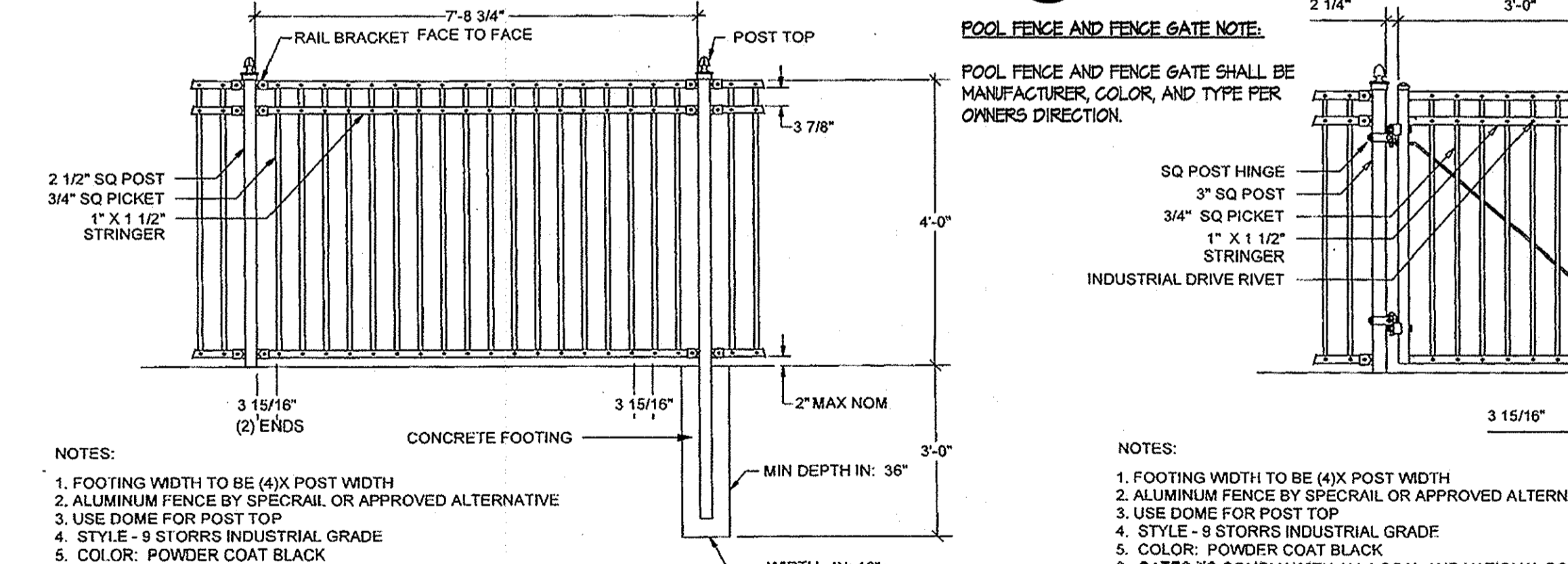
7 TRENCH DRAIN IN POOL DECK SECTION A-A
NOT TO SCALE



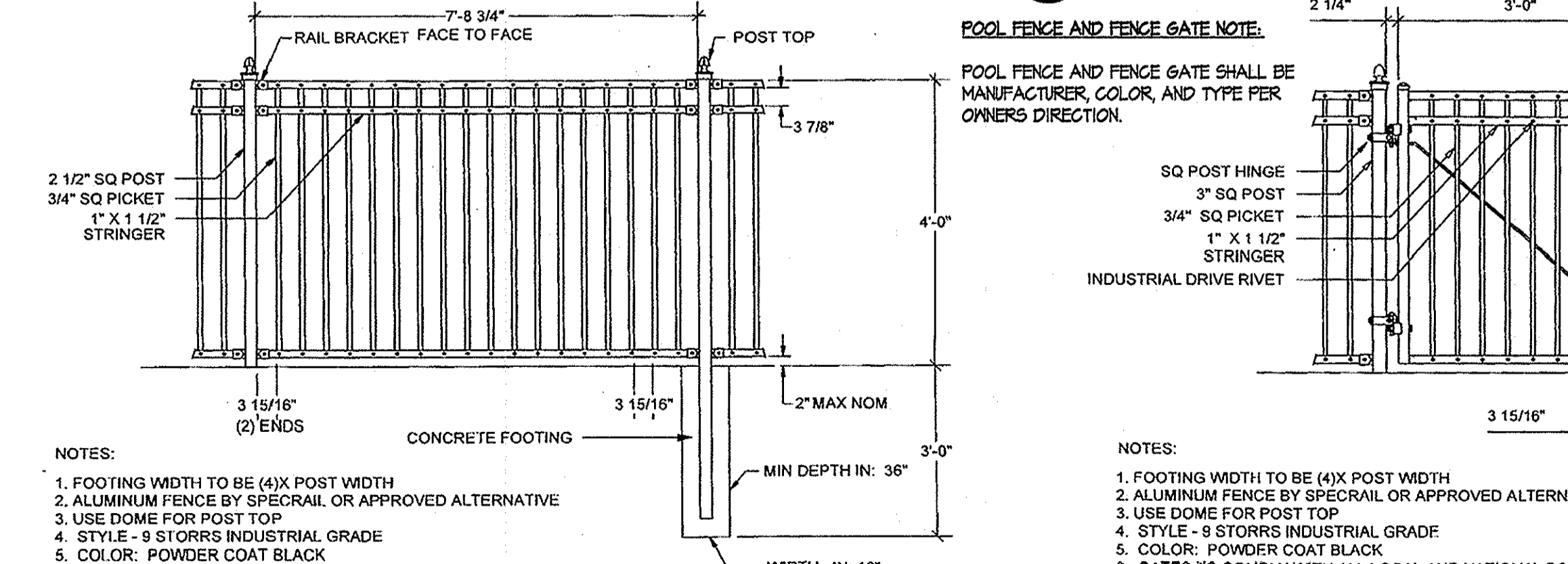
2 40' X 15' SHADE STRUCTURE
STRUCTURE DETAILS FOR REFERENCE ONLY, SEE ORIGINAL STRUCTURE PLANS FOR CONSTRUCTION. NOT TO SCALE



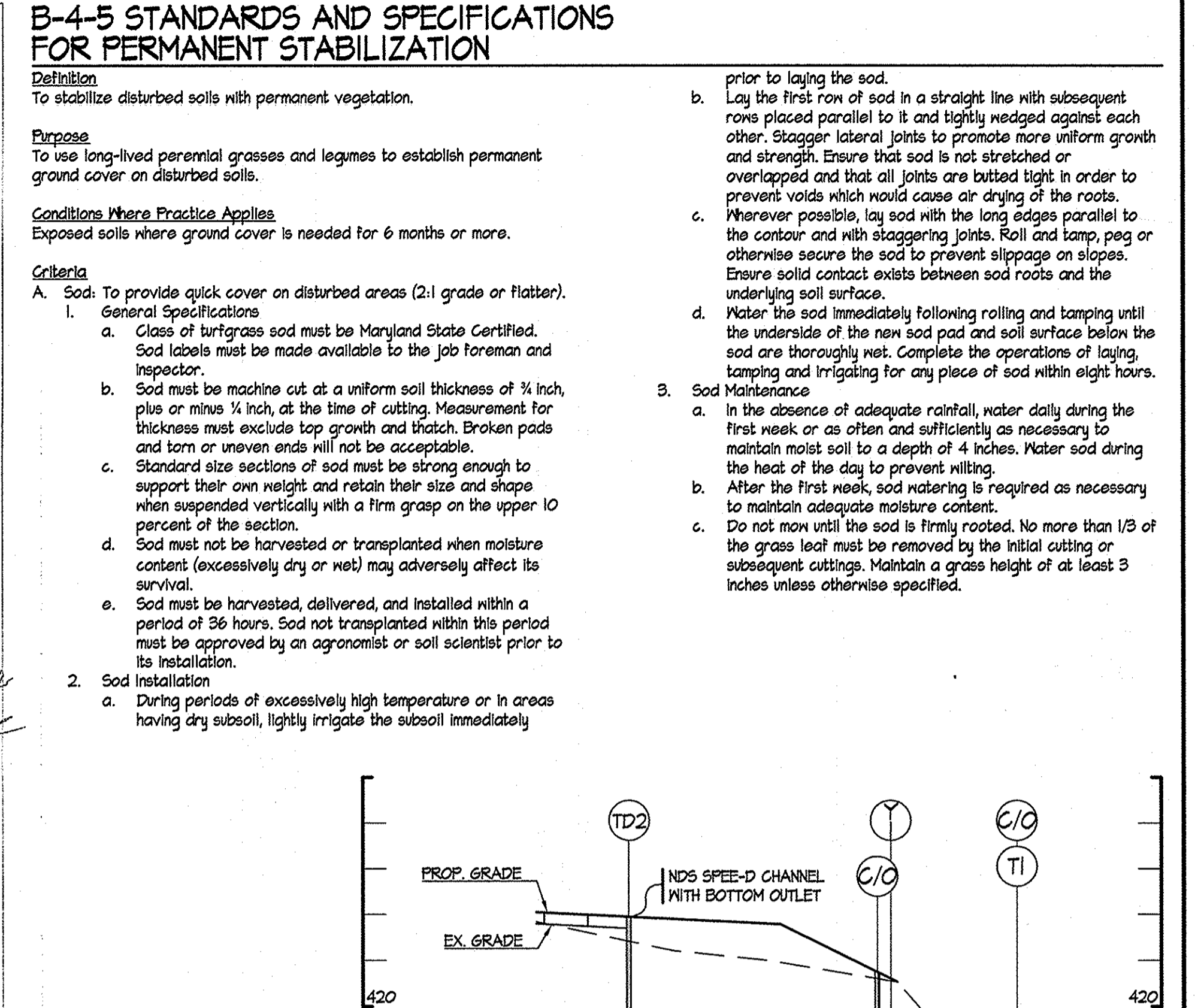
5 PIPE PROFILE
NOT TO SCALE



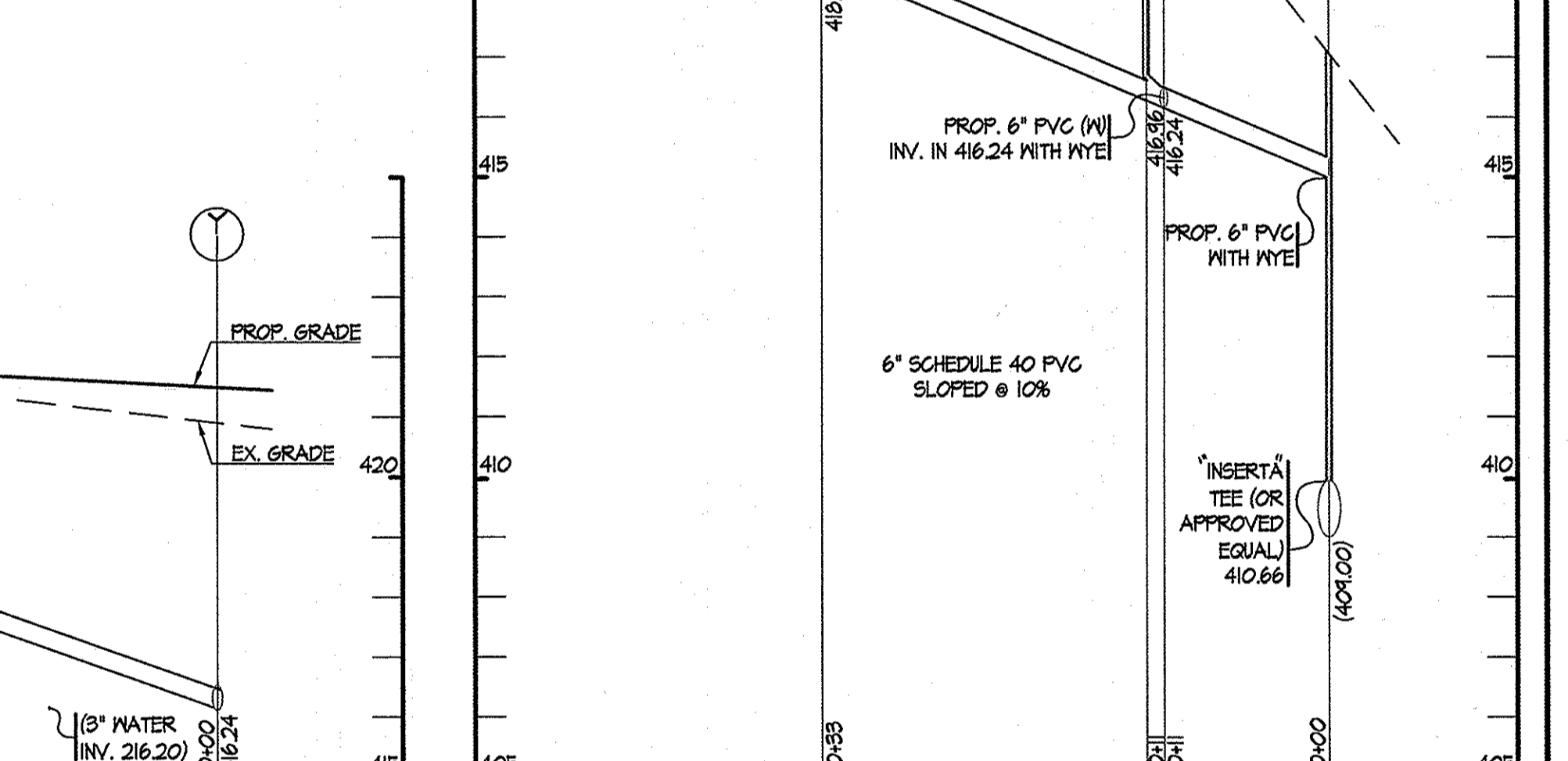
8A FENCE DETAIL
NOT TO SCALE



8B FENCE GATE DETAIL
NOT TO SCALE



6 PIPE PROFILE
NOT TO SCALE



9 INSERTA TEE CONNECTION TO STORM DRAIN
NOT TO SCALE

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

Definition:
To stabilize disturbed soils with permanent vegetation.

Purpose:
To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies:
Exposed soils where ground cover is needed for 6 months or more.

Criteria:
A. Sod:
1. To provide quick cover on disturbed areas (2:1 grade or flatter).
2. General Specifications:
a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
b. Sod must be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/8 inch, at the time of cutting. Measurements for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.
c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation.
3. Sod Installation:
a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
c. Whenever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.
3. Sod Maintenance:
a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.
b. After the first week, sod watering is required as necessary to maintain adequate moisture content.
c. Do not mow until the sod is firmly rooted. No more than 1/3 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

2105000-River Hill Pool-Details-Rev. 01.2016-01.dwg

NOT FOR CONSTRUCTION

APPROVED: DEPARTMENT OF PLANNING & ZONING <i>Niall Joyce</i> DIRECTOR DATE: 3-10-16 DATE: 3-7-16 DATE: 3-10-16	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT DATE:	ADDRESS / PERMIT INFORMATION PARCEL 0400 ADDRESS: 6330 TROTTER ROAD OWNER: COLUMBIA ASSOCIATION 10221 PINCEN CIRCLE, SUITE 100 COLUMBIA, MD 21044 PHONE (410) 381-0291 DEVELOPER: HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY 12275 LITTLE PATENT PARKWAY COLUMBIA, MARYLAND 21044 PHONE (410) 422-6970		DES: BJV DRN: BJV CHK: SAM DATE: 02/08/16	REVISE MADE POOL. ADD SHEETS B4 14 2/2016	PERMIT INFORMATION CHART SUBDIVISION NAME: VILLAGE OF RIVER HILL SECTION/AREA: 2 / 3 LOT/PARCEL NO.: 0436 FLAT # OR L/F: 1B02 GRID #: 0014 ZONING: NT TAX MAP NO.: ELECTION DISTRICT 0035 CENSUS TRACT: 6035025 WATER CODE: SEWER CODE:	DETAILS RIVER HILL POOL OWNER: COLUMBIA ASSOCIATION SCALE AS NOTED C1.02 SHEET 14 OF 14 SDP-94-126
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