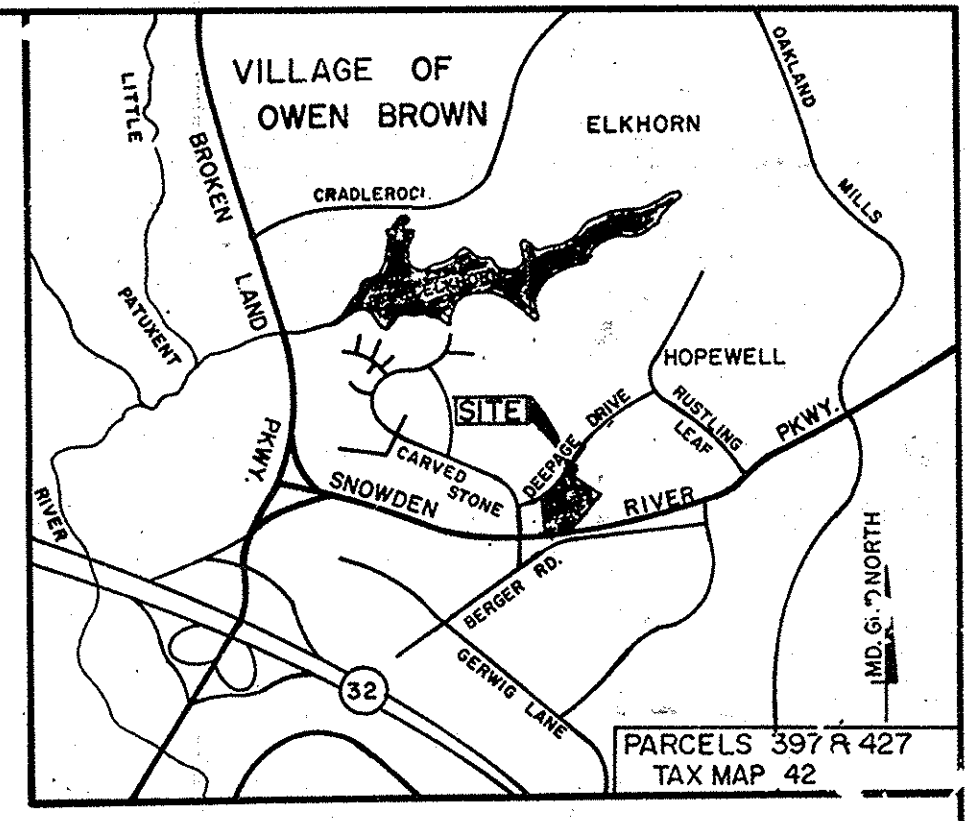


SITE DEVELOPMENT PLAN

SUPREME COURT / SKATELAND

6TH ELECTION DISTRICT

HOWARD COUNTY, MD



VICINITY MAP
SCALE: 1" = 2000'

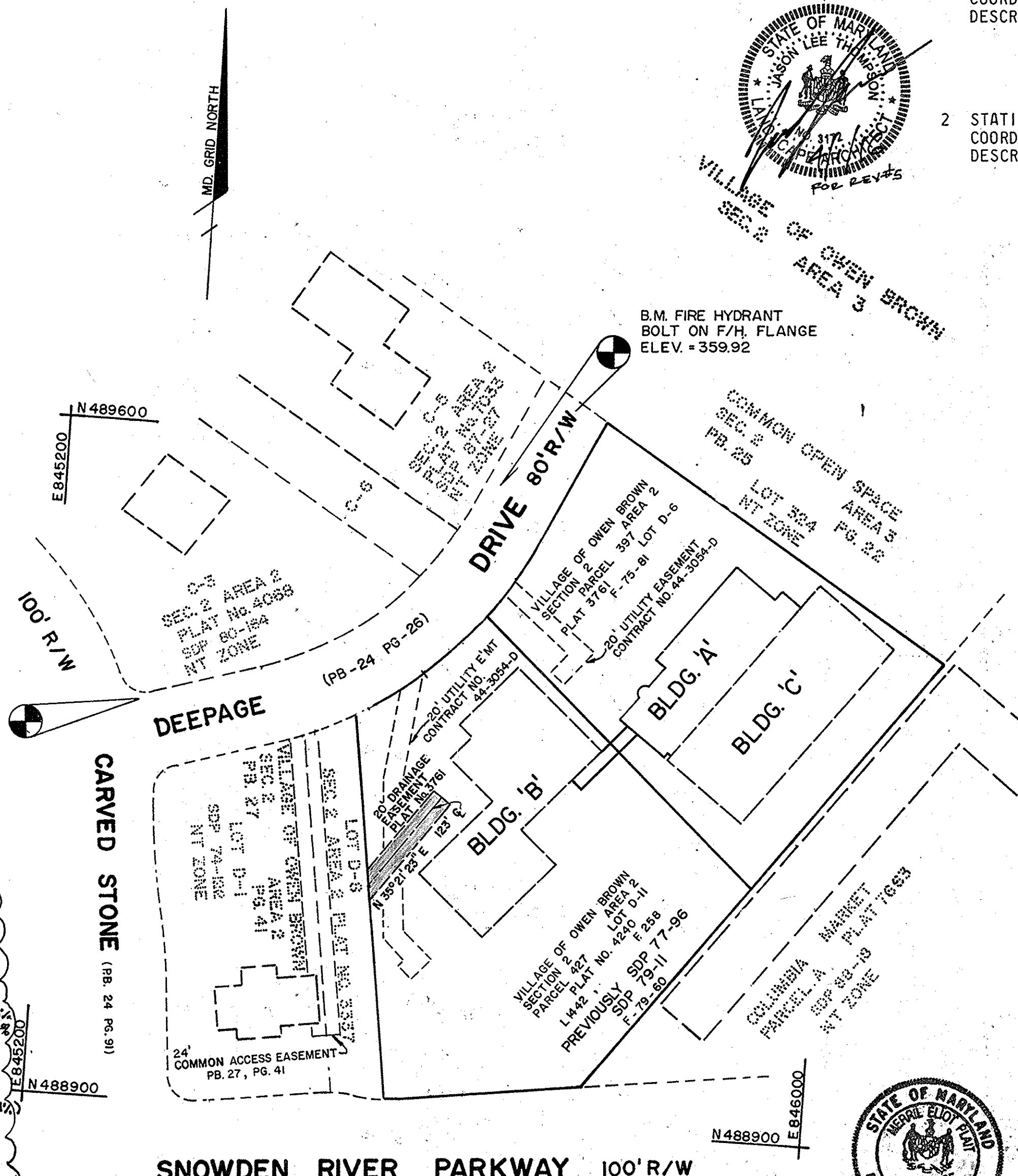
GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE, CENTURY ENGINEERING, AT 4941, 824-8070, IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADES, PRIOR TO BEGINNING WORK.
- ALL WATER LINES SHALL BE CONSTRUCTED WITH A MINIMUM OF 42" COVER BELOW FINISHED GRADE. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTIONS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, REVISED BY AS AMENDED IN JANUARY 1989, I.E. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL HAVE A COPY IN HIS POSSESSION AT ALL TIMES.
- THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS. ANY DAMAGE TO THEM DUE TO HIS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE COMMENCING ANY WORK SHOWN ON THESE DRAWINGS.

MISS UTILITY	1-800-282-8555 OR 1-800-257-7777
C & P TELEPHONE COMPANY	722-0926
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATIONS DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY - CONTRACTORS' SERVICES	
BALTIMORE GAS & ELECTRIC COMPANY - U.G. DAMAGE CONTROL	850-4620
BALTIMORE GAS & ELECTRIC COMPANY - TROUBLE SHOOTING	859-9004
STATE HIGHWAY ADMINISTRATION	298-9013
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
COLONIAL PIPELINE COMPANY	793-1390
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT (FLOW-LINE) ELEVATIONS UNLESS OTHERWISE NOTED.
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN AND DATED SEPTEMBER 1989 BY CENTURY ENGINEERING, AND SUPPLEMENTAL TOPOGRAPHY DATED JUNE 1993.
- ALL PLAN DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL REMOVE ALL TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. ALL OTHER TREES AND SHRUBS SHALL BE PROTECTED TO THE MAXIMUM EXTENT POSSIBLE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH) AS DETERMINED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES, AND THE DISCHARGE ONTO OR ACROSS DOWNSTREAM AREAS INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE GRID COORDINATE SYSTEM. ALL VERTICAL CONTROLS ARE BASED ON M.S.G.S. MEAN SEA LEVEL DATUM 1929.
- ALL UTILITIES SHALL HAVE A MINIMUM CLEARANCE OF TWELVE INCHES (12") UNLESS OTHERWISE NOTED. ALL POLES SHALL HAVE A MINIMUM HORIZONTAL CLEARANCE OF TWO FEET (2').
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- THE CONTRACTOR SHALL NOTE THAT, IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER MAY BE CAUSE FOR REJECTION OF WORK PERFORMED. THE CONTRACTOR WILL BE LIABLE FOR ANY DISCREPANCIES NOT REMEDIED. THE CONTRACTOR SHALL RESTORE ALL EXISTING PAVING, SIDEWALKS, OR LAWNS AFFECTED BY CONSTRUCTION SHOWN HEREON TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION.
- ALL GUTTER SLOPES SHALL MATCH EXISTING PAVING.
- THE CONTRACTOR SHALL REFER TO APPROPRIATE ARCHITECTURAL AND STRUCTURAL PLANS PRIOR TO CONSTRUCTION.
- ALL PIPE LENGTHS ARE MEASURED BETWEEN CENTER OF STRUCTURES AND SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS TO VERIFY ALL LENGTHS OF PIPE WITH FIELD MEASUREMENTS AFTER STRUCTURES ARE IN PLACE.
- THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND NOTIFY THE ENGINEER.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI.
- CONCRETE BUTTRESSES ARE TO BE INSTALLED AT ALL WATER MAIN BENDS, TEES, BLOWOFFS AND HYDRANTS, UNLESS OTHERWISE NOTED.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- PRIOR TO INSTALLING UTILITIES, EXISTING GRADE IS TO BE BROUGHT TO SUBGRADES
- TAMPED FILL TO BE COMPACTED TO A MINIMUM DENSITY OF 95% IN ACCORDANCE WITH A.A.S.H.T.O. DESIGNATION T-180, METHOD C, ASTM D 1557.

LEGEND

	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING WATER
	EXISTING STORM INLET
	EXISTING MANHOLE
	PROPOSED SANITARY SEWER
	PROPOSED STORM DRAIN
	PROPOSED STORM INLET
	PROPOSED MANHOLE
	WATER FIRE HYDRANT
	WATER VALVE, TEE AND CROSS
	CONDUITS (ELECTRIC AND TELEPHONE)
	GAS MAINS
	PROPERTY LINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	CENTERLINE
	WALKS (NOTE WIDTH & TYPE)
	EXISTING CURB
	PROPOSED CURB
	EXISTING LIGHT
	PROPOSED LIGHT
	EXISTING TREE
	EXISTING BUSHES
	CONCRETE
	GRAVEL
	T/C
	B/C
	RCP SD



SITE ANALYSIS

AREA OF LOT D-II	2.9613 Ac.
AREA OF LOT D-6	2.4839 Ac.
TOTAL AREA THIS PLAN	5.4452 Ac.
BUILDING COVERAGE	0.5539 AC (10.17%)
LOT D-II EXIST. BLDG. B	0.5614 AC (10.31%)
LOT D-6 EXIST. BLDG. C	0.5524 AC (10.14%)
LOT D-6 PROP. BLDG. A	0.3211 AC (5.90%)
TOTAL PAVEMENT COVERAGE	
LOT D-6	1.3452, 0.6605 Ac. (26.59%)
LOT D-II	1.3610, 1.1476 Ac. (39.75%)
TOTAL PAVEMENT THIS PLAN	1.8088 AC (33.21%)
TOTAL BUILDING COVERAGE	2.4907 AC (45.74%)
LOT D-6	0.8735 Ac. (35.17%)
LOT D-II	0.5539 AC (10.17%)
TOTAL BUILDING COVERAGE THIS PLAN	1.4274 AC (26.21%)
GREEN SPACE PROVIDED	
LOT D-6	1.0647, 0.9499 Ac. (38.24%)
LOT D-II	1.2623 Ac. (42.63%)
TOTAL GREEN SPACE THIS PLAN	2.3270 AC (42.83%)

SHEET INDEX

TITLE	SHEET No.
TITLE SHEET	1 OF 14
SITE DEVELOPMENT PLAN	2 OF 14
GRADING & SEDIMENT EROSION CONTROL PLAN	3 OF 14
STORM DRAIN PROFILES	4 OF 14
WATER QUALITY INLET DETAILS	5 OF 14
GEOMETRY PLAN	6 OF 14
GRADING & SEDIMENT EROSION CONTROL DETAIL	7 OF 14
GRADING & SEDIMENT EROSION CONTROL DETAIL	8 OF 14
SITE DEVELOPMENT DETAILS	9 OF 14
SITE DEVELOPMENT DETAILS	10 OF 14
LANDSCAPE PLAN	11 OF 14
UTILITY PROFILES	12 OF 14
HANDICAP & PATIO DETAILS	13 OF 14
RETAINING WALL PLAN & DETAILS	14 OF 14

CONTRACTOR: METROPOLITAN CONTRACTING COMPANY
5209 YORK ROAD
BALTIMORE, MD 21212
(301) 435-6700

ARCHITECT: BROSSO, WILHELM & McWILLIAMS
8600 LA SALLE ROAD SUITE 303
YORK BLDG., MD EXECUTIVE PARK
TOWSON, MD 21204 (301) 321-6760

LANDSCAPE: CHARLES SHAW ARCH.
6651 CEDAR LANE
COLUMBIA, MD 21044
(301) 531-5595

FOR PUBLIC WATER DRAWINGS SEE CONTRACT NO. 44-3054-D

SNOWDEN RIVER PARKWAY 100' R/W
FOR FINAL DEVELOPMENT PLAN
SEE FDP PHASE IIB B PART II
IIB A-I PART II

*SECTION IIB-C-1-e: NO COVERAGE REQUIREMENT IS IMPOSED UPON LAND WITHIN THIS FINAL DEVELOPMENT PLAN PHASE DEVOTED TO COMMERCIAL LAND USES EXCEPT IN ACCORDANCE WITH A SITE DEVELOPMENT PLAN APPROVED BY THE HOWARD COUNTY PLANNING BOARD.

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 COUNTY CONSERVATION DISTRICT."
Charles S. Carvaggio
ENGINEER: CHARLES S. CARVAGGIO
DATE: 7/23/90

BY THE DEVELOPER:
"I/WE 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT." ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY CONSERVATION DISTRICT.
Charles S. Carvaggio
DEVELOPER
DATE: 7-24-90

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: 7-5-90

FOR COUNTY USE ONLY
DATE: 7/23/90
Professional Engr. No. 10963

ADDRESS CHART

LOT NO.	ADDRESS
D6	7060 DEEPAE DRIVE
DII	7080 DEEPAE DRIVE

SUBDIVISION NAME VILLAGE OF OWEN BROWN	SECT./AREA 2/2	LOT PARCEL NO. DE, A, DII
PLAT NO., BLOCK NO., NEW TOWN 3337, 4240, 4	TAX/ZONE-42 MAP 42	ELECT. DIST. 6
WATER CODE E-II	SEWER CODE 53303006	CENSUS TR. 8061.03

4-25-2012
RED LINE REVISION:
1. PROPOSED ADDITION TO BUILDING B (1085.6 sq. ft.)

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS
James M. Helm 7/27/90
U.S. CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT
John L. Robertson 7/27/90
HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Helm 10/23/90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chris 11.1.90
PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
Frank J. Seaman 10/16/90
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DATE

William E. Blum 8-7-90
CHIEF, BUREAU OF ENGINEERING DATE

Date	No.	Revision	Description
4-2-90	1	REVISED PER HOWARD CO. COMMENTS	
7-5-90	2	REVISED PER HOWARD CO. COMMENTS	

OWNER/DEVELOPER: (301) 391-0020
COLUMBIA ASSOCIATION
9861 BROKEN LAND SUITE 300
COLUMBIA, MARYLAND 21046

SUPREME COURT/SKATELAND
D-II D-6

CENTURY ENGINEERING, INC.
3301 823-8070
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA: RECORD PLAT REFERENCE NO. 3337, 4240
VILLAGE OF OWEN BROWN
SECTION 2 AREA 2 PARCELS D-6 & D-II
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD

TITLE SHEET

Des By NAM	Scale 1" = 100'	Proj No 89-064
Drn By ETJ	Date DEC. 26, 1989	Drawing No 1 OF 14
Chk By DDS	Approved CSC	

PROPOSED PARKING - SUPREME COURT/SKATELAND PROJECT
LOT D-II SUPREME COURT BUILDING 'B' (PROPOSED RENOVATION)
 PARKING REGULATIONS PER STUDY AS PREPARED BY NORMAN E. GERBER
 A.I.C.P. "PARKING AND LOADING FACILITY REGULATIONS STUDY, PHASE
 I REPORT", FEB. 20, 1989.
 RECREATIONAL USES:
 TENNIS AND RACQUETBALL CLUBS: RECOMMENDED REQUIREMENTS - SIX
 OFF-STREET PARKING SPACES PER COURT PLUS TWO SPACES PER 1,000 S.F.
 OF RECREATION ROOM PLUS ONE SPACE PER 1,000 S.F. REMAINING
 INDOOR SPACE
 TOTAL NET USABLE SQUARE FOOTAGE OF BUILDING 'B':
 33,100 S.F.
 34,186 S.F.

SUBTOTAL OF EXERCISE AREA 15
 EXERCISE AREA = 12,000 + 1,000 = 13,000 S.F. = 22 SPACES
 RACQUETBALL COURT = (5,000 S.F.) 12 COURTS X 6 SPACES = 42 SPACES
 REMAINING AREA = 33,100 - 12,000 - 19,500 = 1,600 S.F. = 14 SPACES
 SPACES PROVIDED @ 9'x18' = 84 SPACES
 SPACES PROVIDED @ 9'x18' = 37 COMPACT CARS
 SPACES PROVIDED @ 9'x18' = 133 STANDARD
 SPACES PROVIDED @ 9'x18' = 96
 TOTAL 170 SPACES

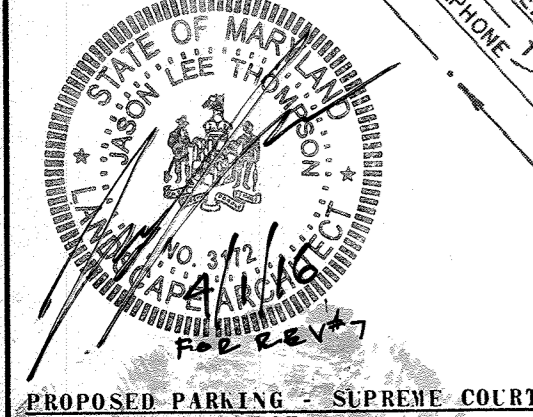
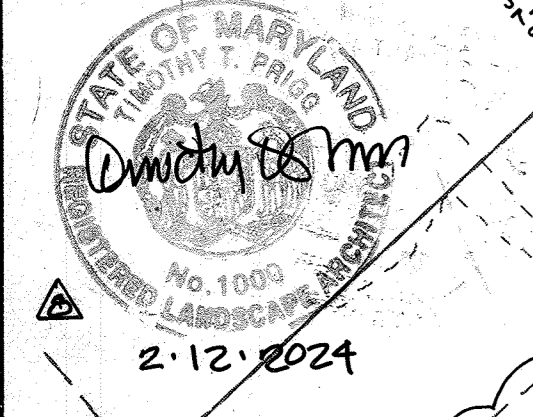
DIFFERENCE = 160
 HANDICAP SPACES REQ'D = 4
 HANDICAP SPACES PROV = 6

PROPOSED ADDITION
 PARKING REQUIREMENTS PER
 F.D.P. - A-111 PART 1
 2 PARKING SPACES FOR EACH 1000 S.F.

RECOMMENDED REQUIREMENTS FOR
 ENCLOSED BASKETBALL COURT FOR
 1026 PART IS 2

TOTAL AREA
 FOR THE PROP.
 LIMIT OF
 DISTURBANCE
 7907 SQ. FT.

LEGEND
 Non EXISTING TREE
 REMOVE EX. TREE N23°14'43"W 101.2'
 PROPOSED GRADE
 PROPOSED REROUTING
 OF EX. 2" WATER LINE
 LIMITS OF
 DISTURBANCE



PROPOSED PARKING - SUPREME COURT/SKATELAND PROJECT	EXISTING BUILDING 'C'	PROPOSED CONNECTING BUILDING 'A'
EXISTING BUILDING 'C'	19,400 S.F.	19,400 S.F.
A. SKATING RINK & NEW LOBBY	5,000 S.F.	5,000 S.F.
B. RUNNING TRACK	4,800 S.F.	4,800 S.F.
NEW LOCKER ROOM	14,000 S.F.	14,000 S.F.
PROPOSED CONNECTING BUILDING 'A'		
SWIMMING POOL	12	12
WHIRLPOOL		
BASKETBALL COURT (1/2 COURT PLAY 20 PER COURT X 2 COURTS)	40	40
RUNNING TRACK (1 PERSON PER 12 LINEAR FEET OF TRACK 620 ± 12)	52	52
WOMEN'S LOCKER ROOM		
MEN'S LOCKER ROOM		
TOTAL OCCUPANCY	304	304

PROFESSIONAL CERTIFICATION
 I hereby certify that these Plans were prepared or approved by me and that I am a duly Licensed Professional Engineer under the laws of the State of Maryland.
 License #16144
 Expiration Date: 8-19-20

NO.	DATE	REVISION
11-10-04		REVISE 'C' FIRE CONN. LOCATION
10-20-04		ADDED CANOPY BETWEEN BLDG'S A & B, ADDED 'C' FIRE CONN. UPDATED EX. CONDITIONS
9-9-03		ADDED WALKWAY AT WEST END OF BLDG 'B'
2-26-2020		Revise Sidewalk to exterior door

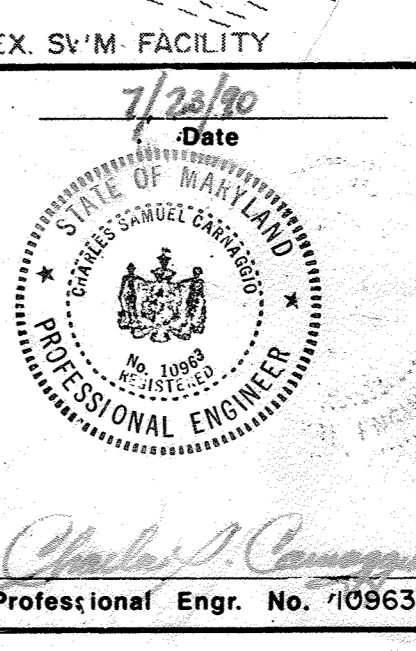
NO.	DATE	REVISION
11-10-04		REVISE 'C' FIRE CONN. LOCATION
10-20-04		ADDED CANOPY BETWEEN BLDG'S A & B, ADDED 'C' FIRE CONN. UPDATED EX. CONDITIONS
9-9-03		ADDED WALKWAY AT WEST END OF BLDG 'B'
2-26-2020		Revise Sidewalk to exterior door

PROFESSIONAL CERTIFICATION
 I hereby 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.

PROFESSIONAL CERTIFICATION
 I 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 Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspections by the HOWARD SOIL CONSERVATION DISTRICT.

DATE	NO.	REVISION DESCRIPTION
APRIL 2016	1	REVISE TOTAL SPACES
APRIL 1995	2	PARKING EXPANSION

APPROVED
 PLAN BOARD
 DATE: 7-5-90

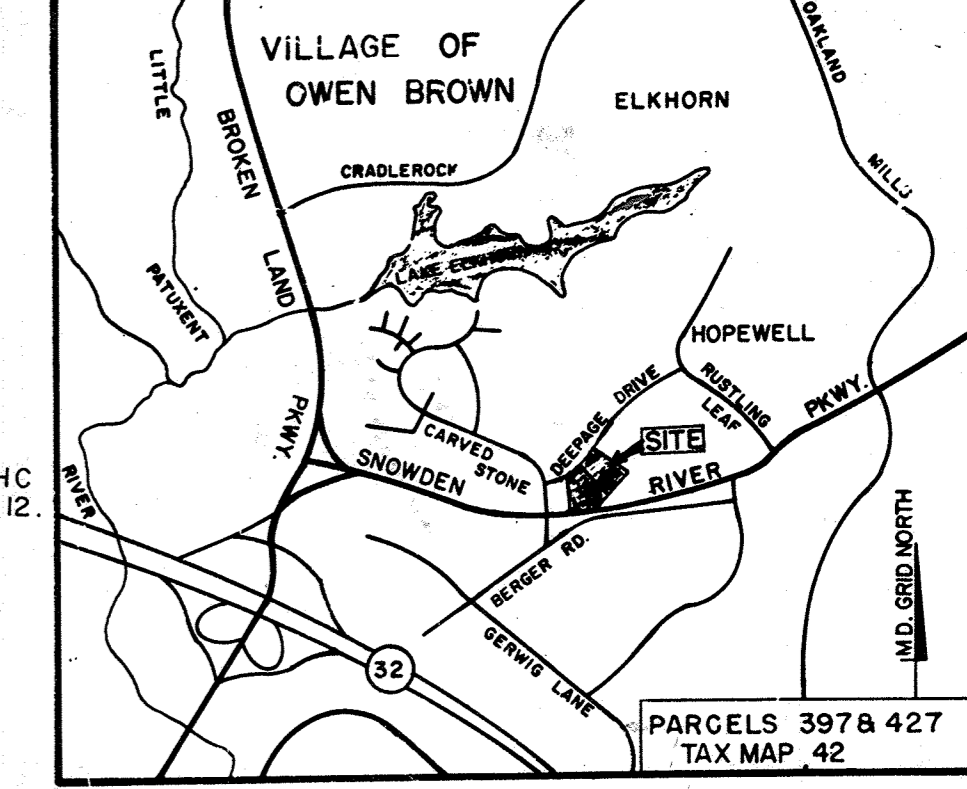
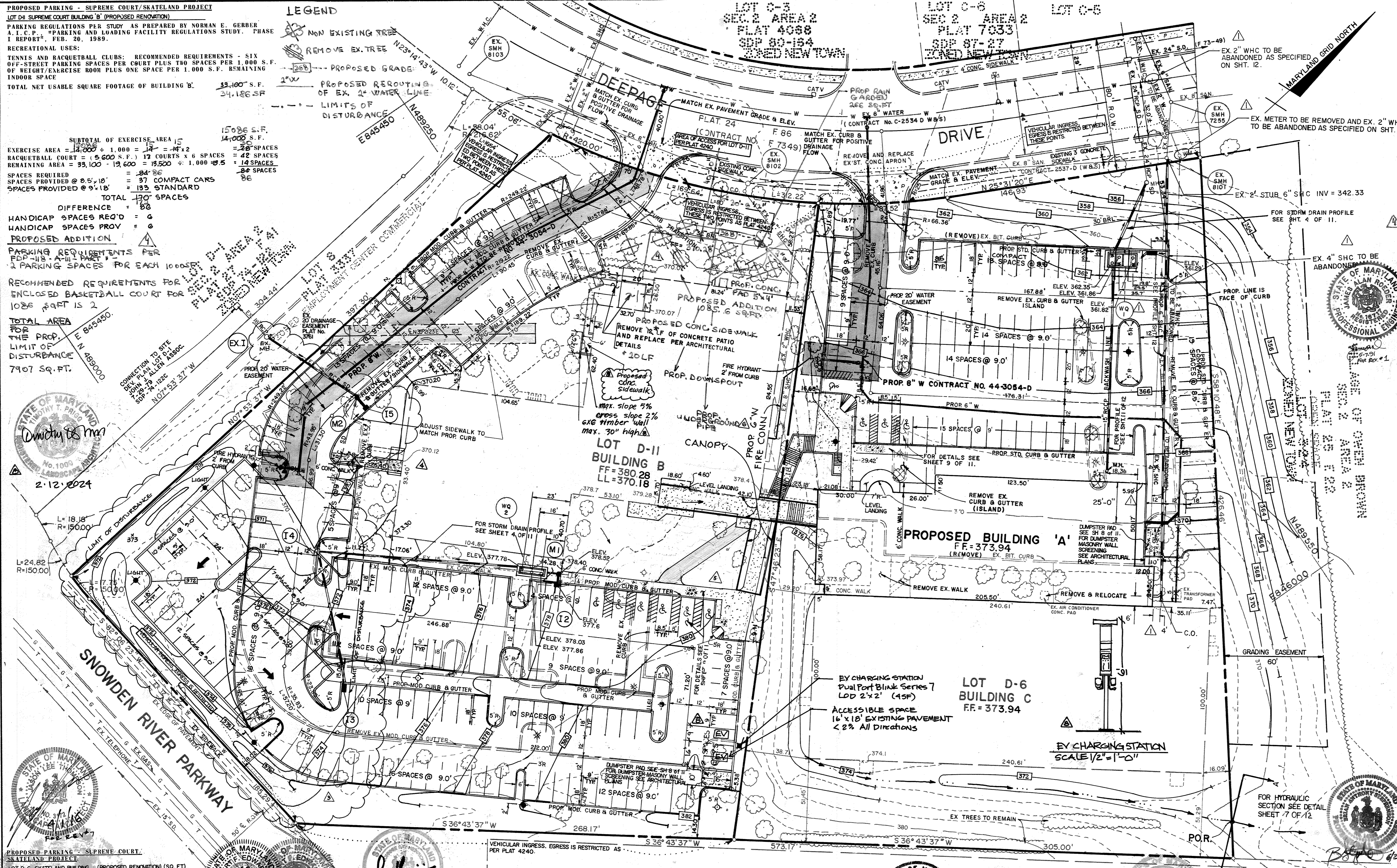


ADDRESS CHART	LOT NO.	ADDRESS
D6	7060 DEEPAGE DRIVE	
D11	7080 DEEPAGE DRIVE	

SUBDIVISION NAME	SECT./AREA	LCT PARCEL NO.
VILLAGE OF OWEN BROWN	2/2	D6 & D11
PLAT NO./BLOCK NO./ZONING	TAX ZONE	ELECT. DIST.
3337/4240/4	42	6061.03
WATER CODE	SEWER CODE	
E-11	53303006	

ENGINEER: CHARLES S. CARRAGGIO
 DATE: 7/23/90

DEVELOPER: [Signature]
 DATE: 7-24-90



4-25-2012 REVISION:
 SCALE: 1"=2000'
 1. PROPOSED ADDITION (1085.6 SQ. FT.) TO BUILDING
 2. PROPOSED RAIN GARDEN (266 SQ. FT.)
 3. RELOCATION OF EX. 2" WATER LINE
 NOTE: BUILDING DIMENSIONS ARE TO THE FACE OF BUILDING.
 REVISION: ABANDON 2" WHC, REPLACE EX. 4" SHC W/ 6" SHC, REVISE 6" WHC INTO BLDG. JR. 4-4-91.

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

James M. Adams/ [Signature] 7/27/90
 P.S. SOIL CONSERVATION SERVICE DATE

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

John L. Polston 7/27/90
 HOWARD S.C.D. DATE

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

James M. Boyd per [Signature] 10/23/90
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 11.1.90
 PLANNING DIRECTOR DATE

[Signature] 10/26/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 10/16/90
 Acting DIRECTOR DATE

William C. [Signature] 8/2/90
 CHIEF, BUREAU OF ENGINEERING DATE

Date	No.	Revision Description
4/2/90	1	REVISED PER HOWARD CO. COMMENTS
7/5/90	2	REVISED PER HOWARD CO. COMMENTS

OWNER/DEVELOPER (301) 381-0020
 COLUMBIA ASSOCIATION
 9861 BROKEN LAND SUITE 300
 COLUMBIA, MARYLAND 21046

SUPREME COURT/SKATELAND
 LOT D-II LOT D-6

CENTURY ENGINEERING, INC.
 (301) 823-8070
 CONSULTING ENGINEERS • PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21204

AREA RECORD PLAT REFERENCE NO. 3337, 4240
 VILLAGE OF OWEN BROWN
 SECTION 2 AREA 2 LOTS D6 & D11
 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD.

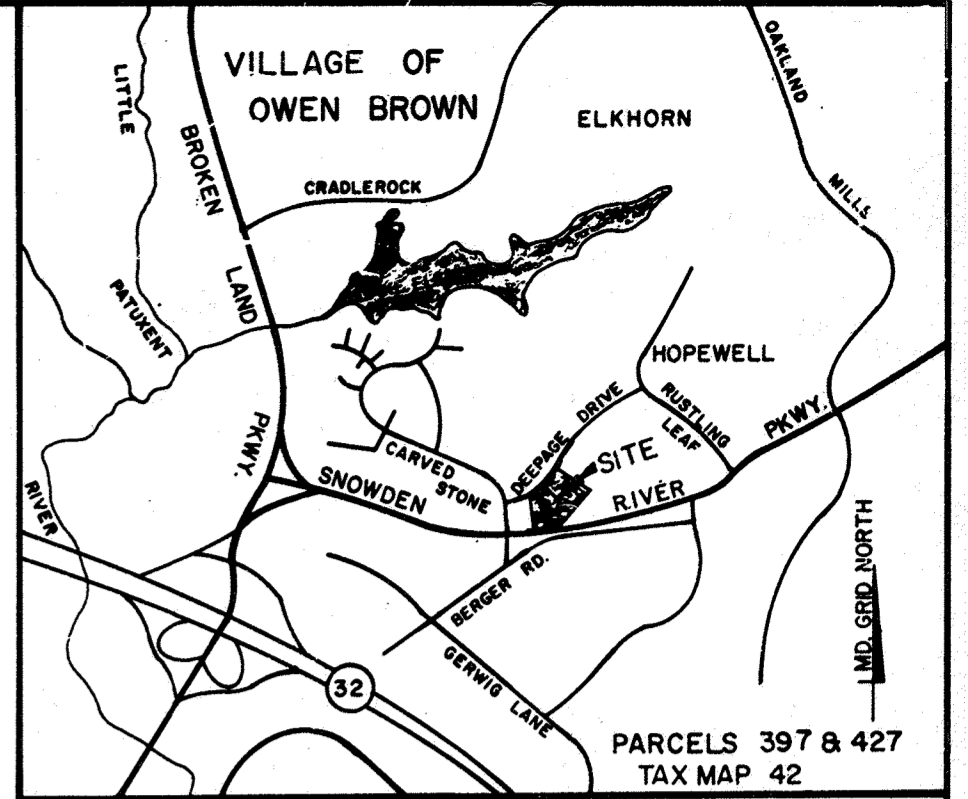
TITLE **SITE DEVELOPMENT PLAN**

Des By	NAM	Scale	1" = 30'	Proj No	89-064
Drn By	ETJ	Date	DEC. 26, 1989	Drawing No.	2 OF 14
Chk By	DDS	Approved	CSC		

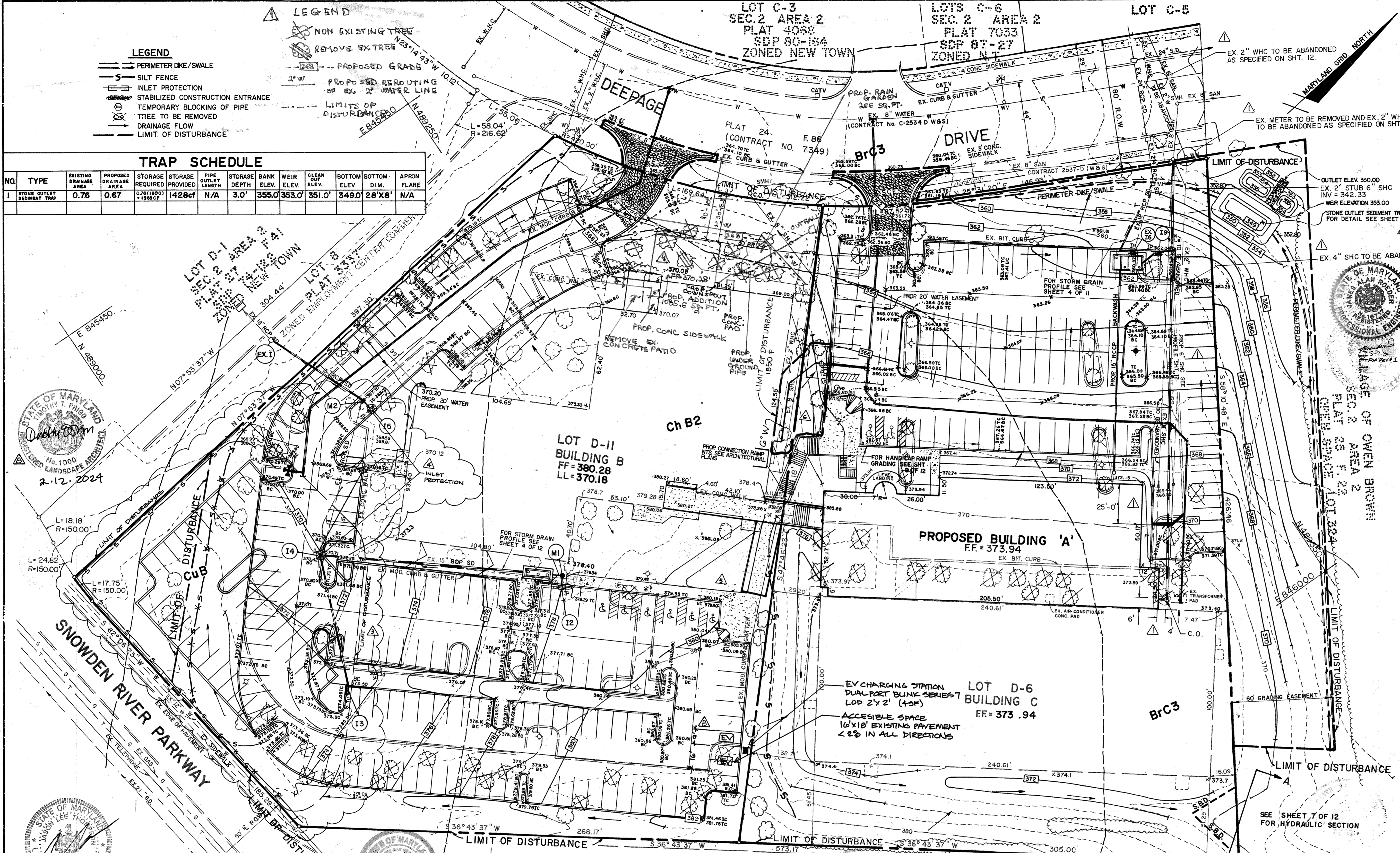
- LEGEND**
- PERIMETER DKE/SWALE
 - SILT FENCE
 - INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - TEMPORARY BLOCKING OF PIPE
 - TREE TO BE REMOVED
 - DRAINAGE FLOW
 - LIMIT OF DISTURBANCE

TRAP SCHEDULE

NO.	TYPE	EXISTING DRAINAGE AREA	PROPOSED DRAINAGE AREA	STORAGE REQUIRED	STORAGE PROVIDED	PIPE OUTLET LENGTH	STORAGE DEPTH	BANK ELEV.	WEIR ELEV.	CLEAN OUT ELEV.	BOTTOM ELEV.	BOTTOM DIM.	APRON FLARE
1	STONE OUTLET SEDIMENT TRAP	0.76	0.67	0.09	1.428cf	N/A	3.0'	355.0'	353.0'	351.0'	349.0'	28'x8"	N/A



VICINITY MAP
SCALE: 1" = 2000'
REVISION: 1. PROPOSED ADDITION (1085.6 SQ. FT.) TO BUILDING B
2. PROPOSED RAIN GARDEN (166.5 SQ. FT.)
3. RELOCATION OF EX. 2" WATER LINE



REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS
 SOIL CONSERVATION SERVICE 7/27/90 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
 HOWARD S.C.D. 7/27/90 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER 10/23/90 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 PLANNING DIRECTOR 11.1.90 DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 10/22/90 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 10/16/90 DATE

CHIEF, BUREAU OF ENGINEERING 8/9/90 DATE

4-2-90 1 REVISED PER HOWARD COUNTY COMMENTS
 7-5-90 2 REVISED PER HOWARD COUNTY COMMENTS

Date	No	Revision	Description

OWNER/DEVELOPER (301) 381-0020
 COLUMBIA ASSOCIATION
 5861 BROKEN LAND SUITE 300
 COLUMBIA, MARYLAND 21046

SUPREME COURT/SKATELAND
 LOT D-II LOT D-6

CENTURY ENGINEERING, INC.
 (301) 823-8070
 CONSULTING ENGINEERS • PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21204

AREA RECORD PLAT REFERENCE NO. 3337, 4240
 VILLAGE OF OWEN BROWN
 SECTION 2 AREA 2 LOTS D-6 & D-11
 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD.

TITLE **GRADING AND SEDIMENT EROSION CONTROL PLAN**

Des By	NAM	Scale	1" = 30'	Proj No	89-064
Drn By	MAG	Date	DEC 26, 1989	Drawing No.	3 OF 14
Chk By	DDS	Approved	CSC		

SEDIMENT AND EROSION CONTROL GENERAL NOTES

- EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON UPSTREAM SIDE OF TRENCH.
- IMMEDIATELY FOLLOWING PIPE INSTALLATION, THE TRENCH SHALL BE BACK FILLED, COMPACTED AND STABILIZED (MULCHED, SEEDING, SODDED MECHANICAL STABILIZATION, OR PAVED) WITHIN SEVEN DAYS.
- SILT FENCES SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED LONGER THAN ONE WORKING DAY. (SEE SEE DRAWING SP-1.)
- THE CONTRACTOR SHALL OPEN ONLY THE MINIMUM PRACTICAL LENGTH OF TRENCH REQUIRED TO COMPLETE THAT DAY'S SCHEDULED WORK.
- ALL SEDIMENT AND EROSION CONTROL PRACTICES AND VEGETATIVE STABILIZATION SHALL BE IN ACCORDANCE WITH THE "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL."

NO.	DATE	REVISION
4-1-90		REVISE TOTAL SHEETS
11-10-04		REVISED 6" FIRE CONN. LOCATION
10-20-04		ADDED CANOPY BETWEEN BLDG'S A&B, ADDED 6" FIRE CONN., UPDATED EX. CONDITIONS
9-9-03		ADDED WALKWAY AT WEST END OF BLDG 'B'

LOT NO.	ADDRESS
D6	7060 DEEPAGE DRIVE
D11	7080 DEEPAGE DRIVE

Site Analysis:
 Total Area of Site
 Area Disturbed
 Area to be roofed or paved
 Area to be vegetatively stabilized
 Total Cut
 Total Fill
 Offsite waste/borrow area location
 TO BE DETERMINED

Acres	Cu. Yds.
5.4452	5519.04
2.2899	235.12
2.033	211.88
3.122	326.00
2.033	211.88
5.4452	5519.04

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."

ENGINEER, CHARLES S. MAGGEO 7/23/90 DATE

COLUMBIA MARKET PARCELS
 PLAT 7666
 SDP 88-18
 ZONED NEW TOWN

Date	No	Revision	Description
April 1995			PARKING EXPANSION

BY THE DEVELOPER:
 "I 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER DATE

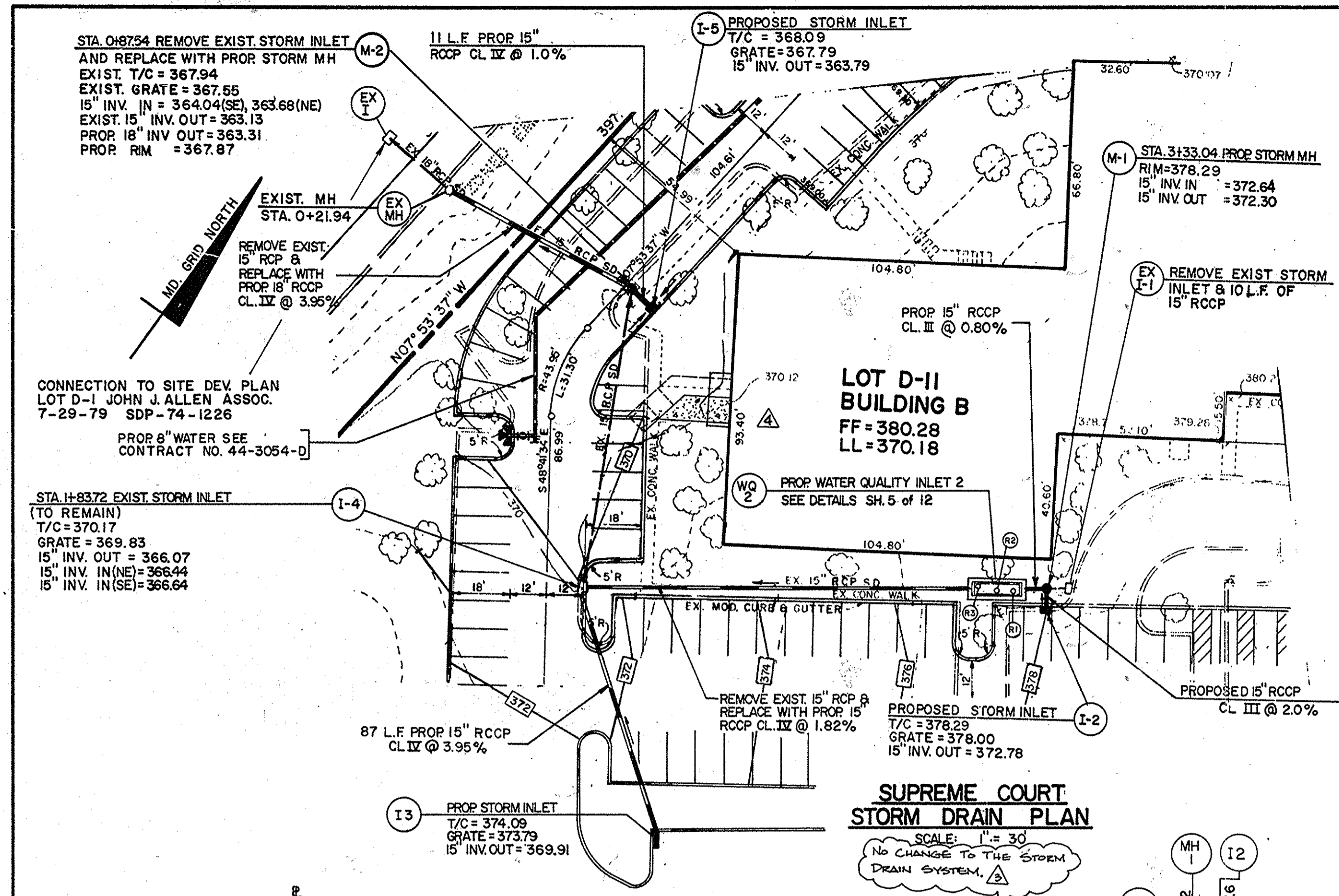
APPROVED
 PLANNING BOARD OF HOWARD COUNTY
 DATE 7-5-90

FOR COUNTY USE ONLY

DATE 7-24-90

DATE

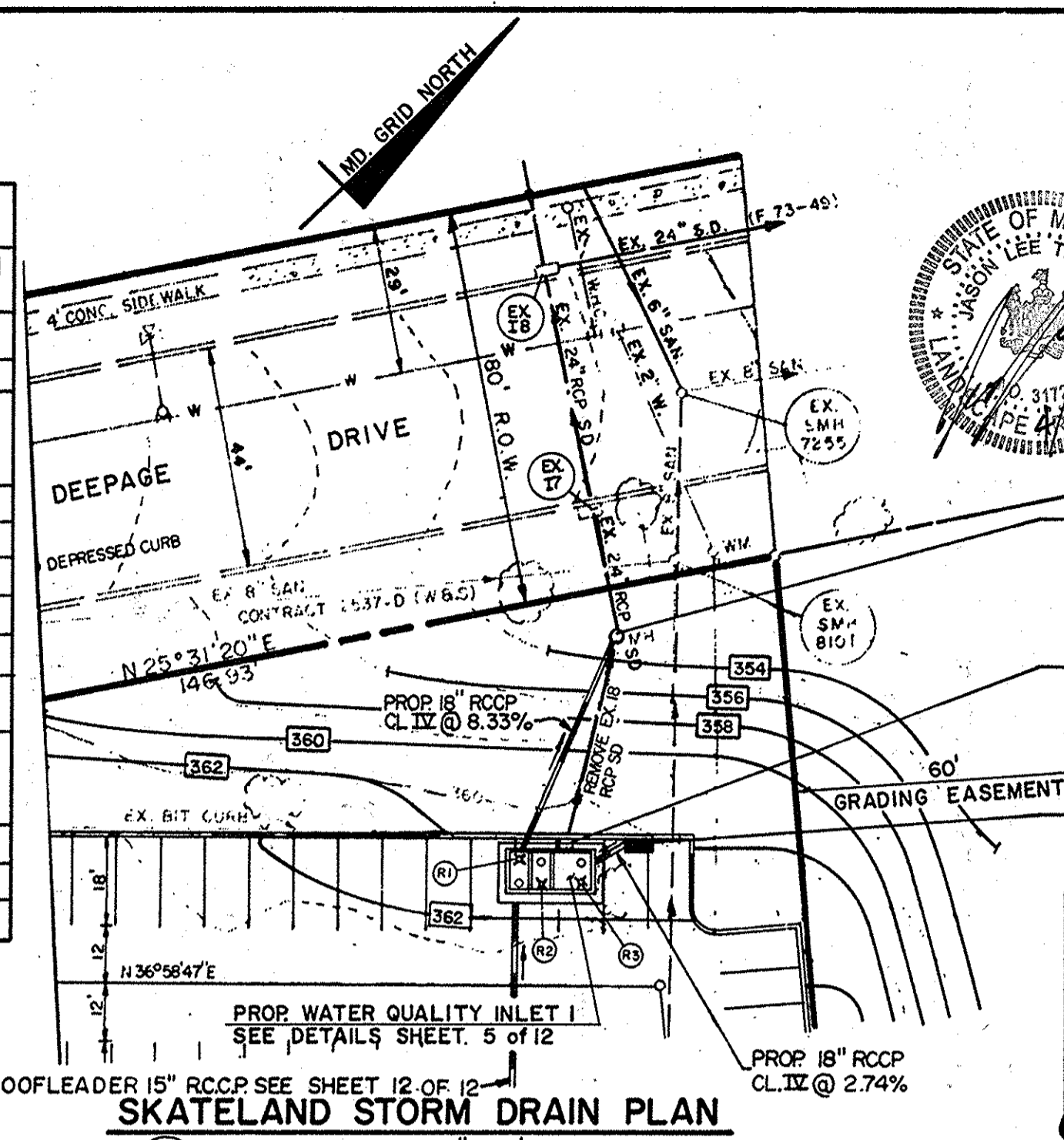
Professional Engr. No. 10963



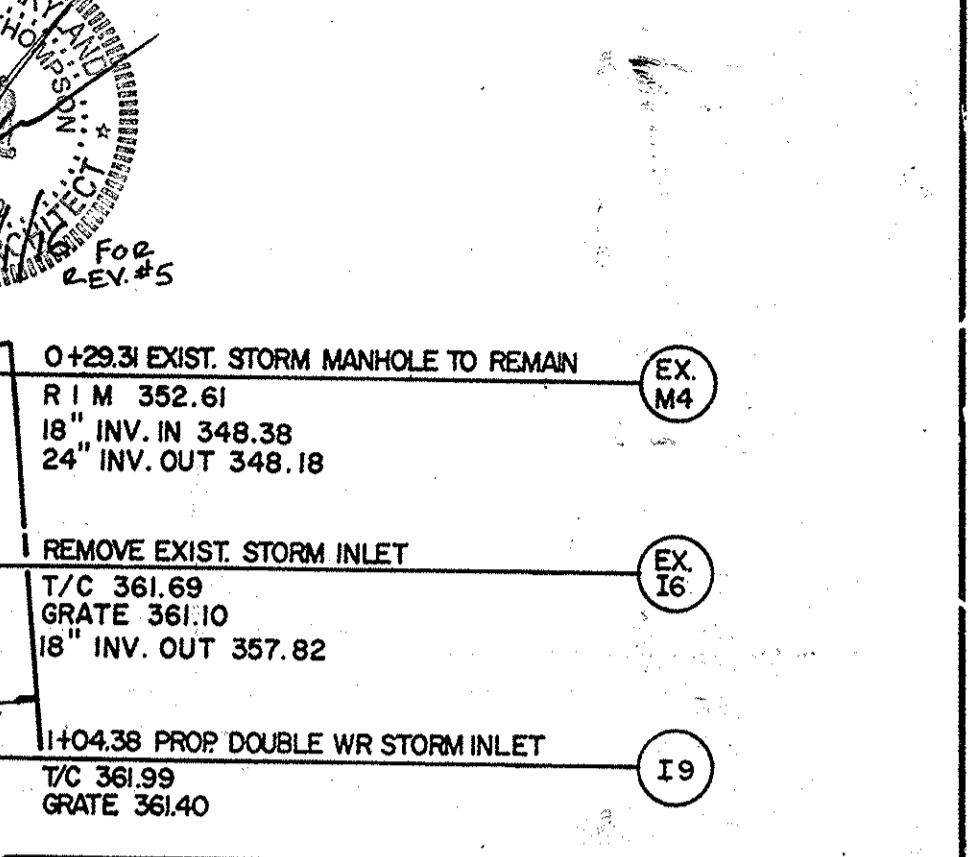
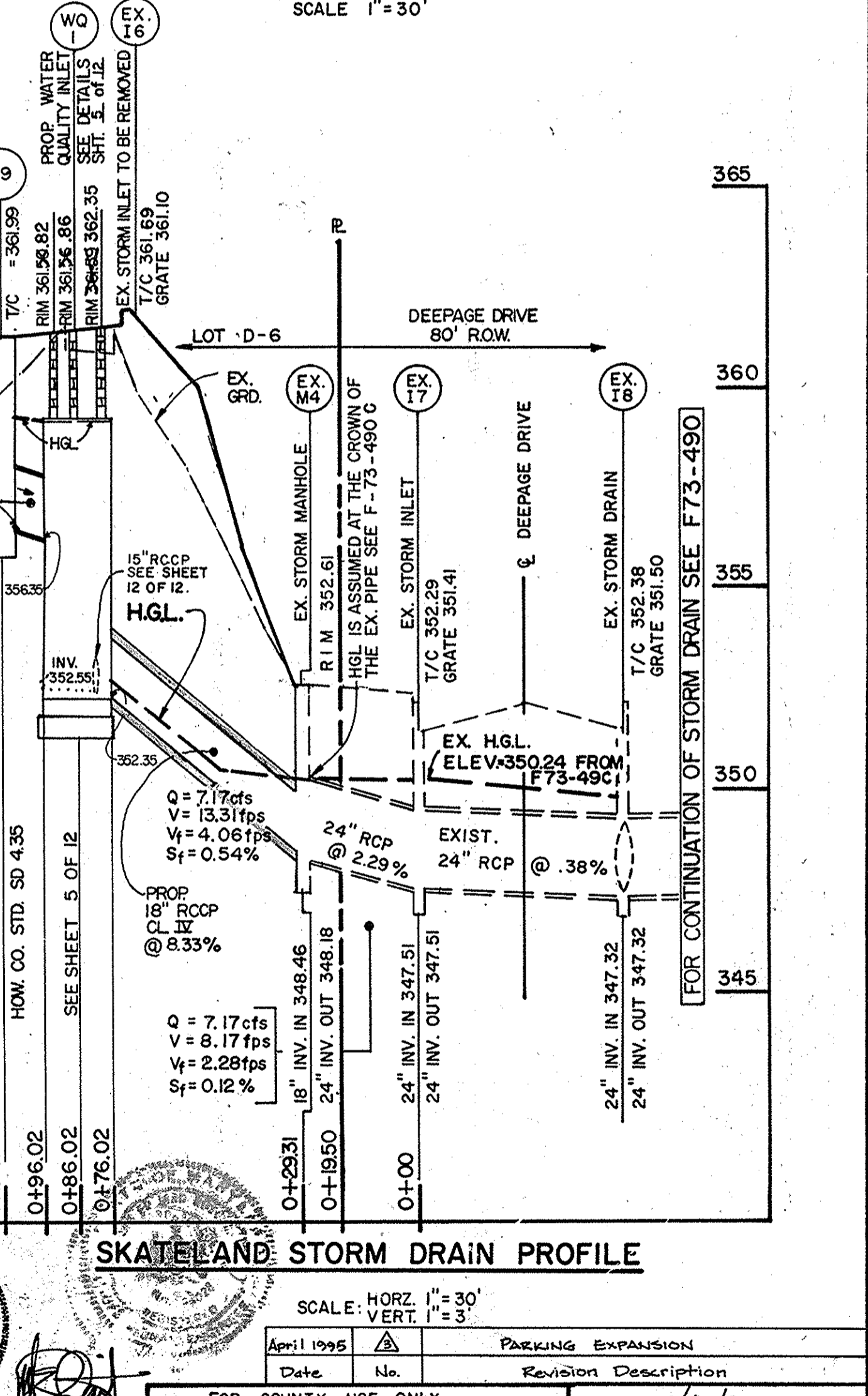
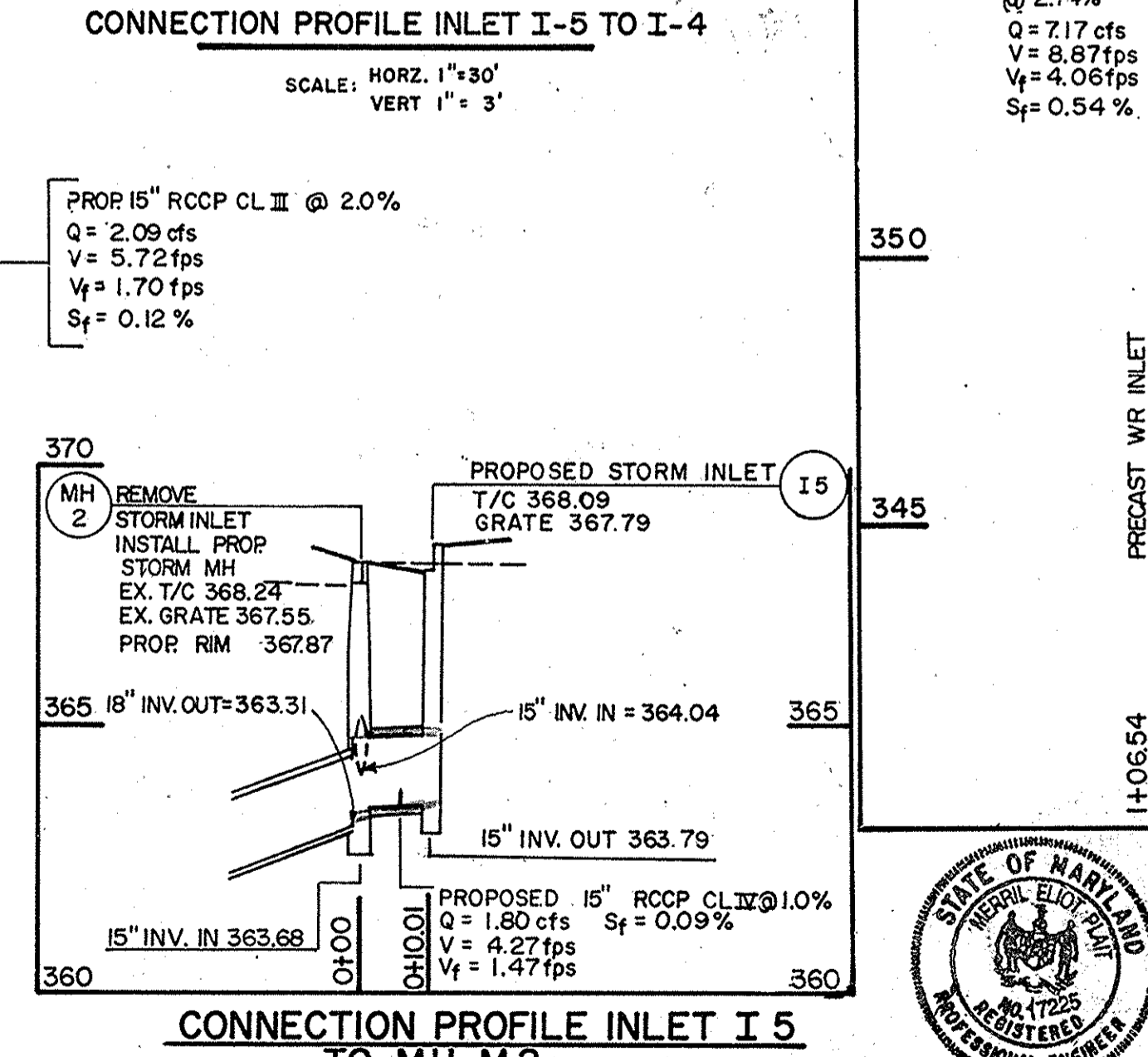
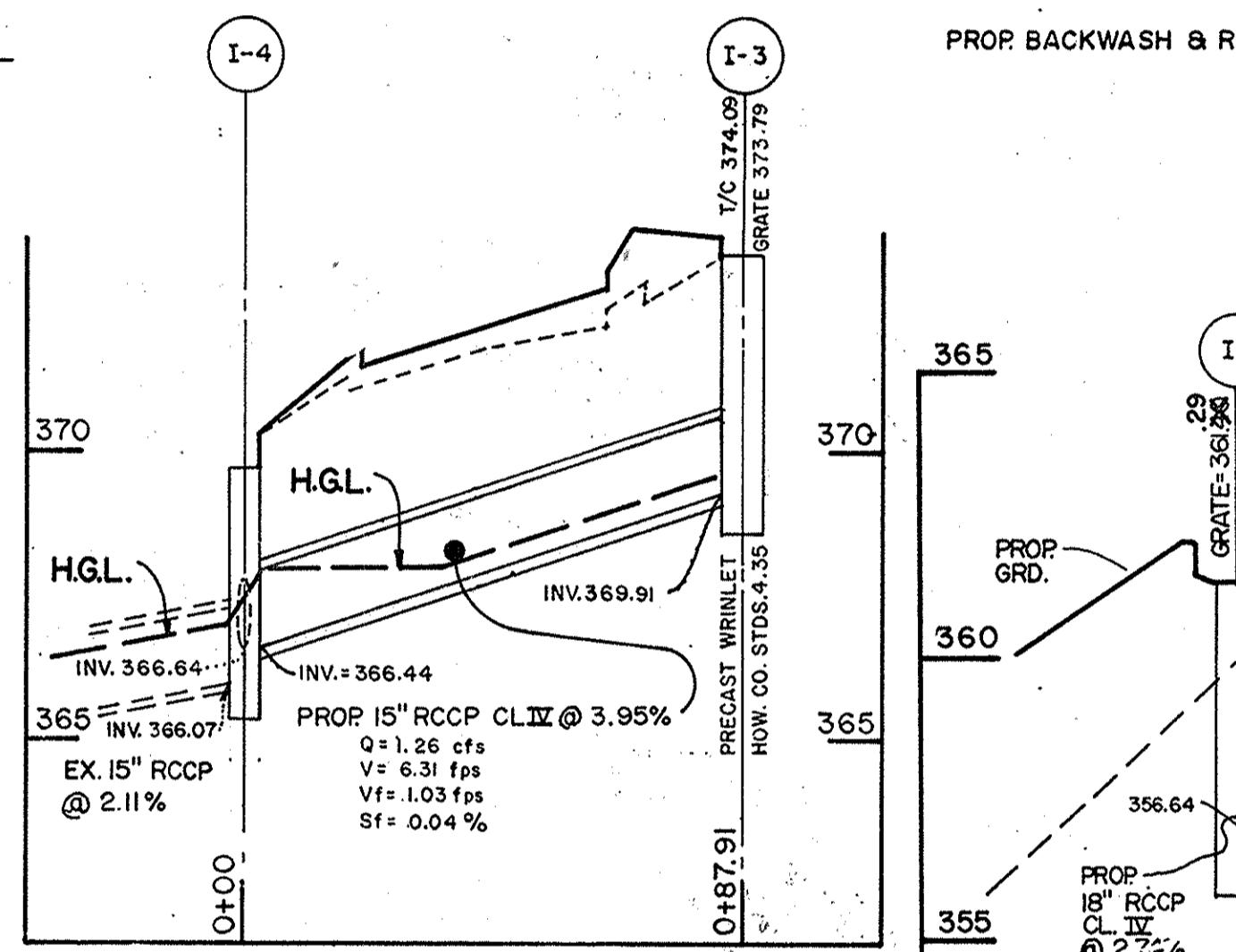
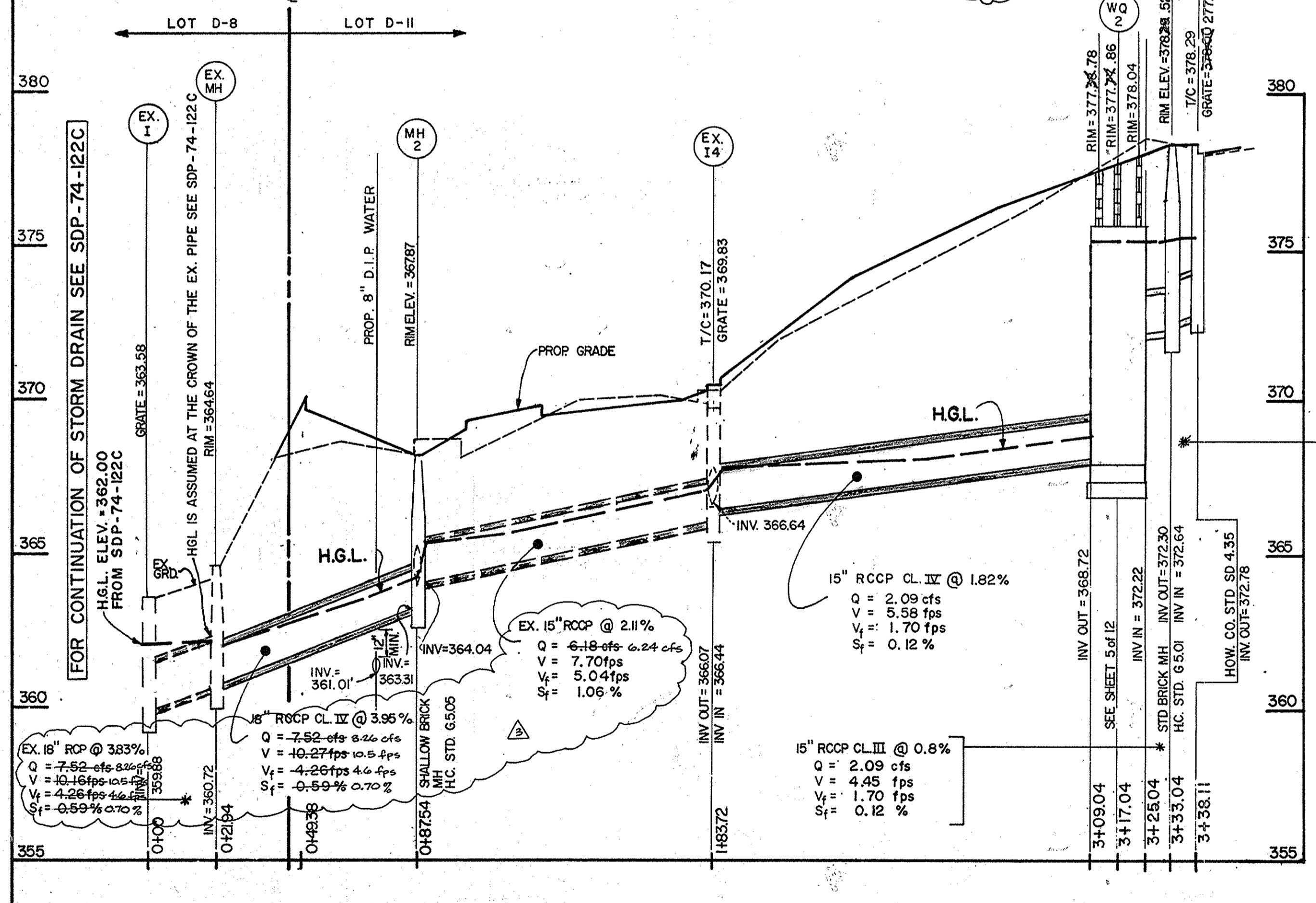
MANHOLE & INLET SCHEDULE

NO.	COORDINATES *	INV. IN	INV. OUT	GRATE/RIM ELEV.
EX. I7	N 489609.2276 E 845721.2600	347.51	347.51	351.41
EX. M4	N 489595.5801 E 845747.1955	348.46	348.18	352.61
WQ1	N 489556.6035 E 845778.3776	356.35	352.35	(R)3361.50 (R)361.56 (R)361.59
I9	N 489574.1393 E 845784.1821	---	356.64	361.40
EX. I	N 489097.4082 E 845497.9301	359.88	---	363.58
EX. MH	N 489100.4625 E 845519.6592	360.72	360.72	364.64
M2	N 489125.6584 E 845580.2191	364.04	363.31	367.87
I5	N 489127.0327 E 845590.1310	---	363.79	367.79
I4	N 489052.4730 E 845642.6277	366.64 366.44	366.07	369.83
WQ2	N 489152.9195 E 845730.3007	372.22	368.72	(R)377.38 (R)377.77 (R)378.04
M1	N 489164.9737 E 845740.8219	372.64	372.30	378.29
I2	N 489162.3706 E 845743.8267	---	372.78	378.00
I3	N 489017.5640 E 845723.1437	---	369.91	373.79

* CENTER OF STRUCTURE



- NOTES:**
1. FOR FLOW TABULATIONS SEE SHEET 5 OF 12.
 2. FOR DRAINAGE AREAS AND SOIL CONDITIONS SEE SHEET 7 OF 12.
 3. FOR SITE GEO. PLAN SEE SHEET 6 OF 12.
 4. FOR WATER QUALITY STRUCTURE SEE SHEET 5 OF 12.
 5. FOR DETAILED SITE GRADING SEE SHEET 3 OF 12.



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

James M. Hahn 7/27/90
U.S. CONSERVATION SERVICE DATE

John P. Ricketts 7/27/90
HOWARD S.C.D. DATE

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

James M. Blandford 10/23/90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Walt 11.6.90
PLANNING DIRECTOR DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Donald J. Spason 10/16/90
Acting DIRECTOR DATE

APPROVED: 8/7/90

William P. Kelly 8/7/90
CHIEF, BUREAU OF ENGINEERING DATE

Date	No.	Revision Description
4-2-90	1	REVISED PER HOWARD CO. COMMENTS
7-5-90	2	REVISED PER HOWARD CO. COMMENTS

OWNER/DEVELOPER (301) 391-0020
COLUMBIA ASSOCIATION
9861 BROKEN LAND
SUITE 300
COLUMBIA, MARYLAND 21046

CENTURY ENGINEERING, INC.
(301) 828-8070
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA RECORD PLAN REFERENCE NO. 3337, 4240
VILLAGE OF OWEN BROWN
SECTION 2 AREA 2 PARCELS D-6 & D-11
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD.

TITLE **STORM DRAIN PROFILES**

Des By NAM Scale AS SHOWN Proj No 89-064
Dwn By -MAG Date DEC. 26, 1989 Drawing No.
Chk By DDS Approved CSC 4 OF 14

NOTE: WATER QUALITY STRUCTURE AS-BUILTS PROVIDED BY CENTURY ENGINEERING 5/92

MD. P.E. NO. 11028

STATE OF MARYLAND
PROFESSIONAL ENGINEER

ADDRESS CHART

LOT NO.	ADDRESS
D6	7060 DEEPAE DRIVE
D11	7080 DEEPAE DRIVE

NO.	DATE	REVISION
4-1-16		REVISE TOTAL SHEETS
9-9-03		ADDED WALKWAY AT WEST END OF BLDG 'B'

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."

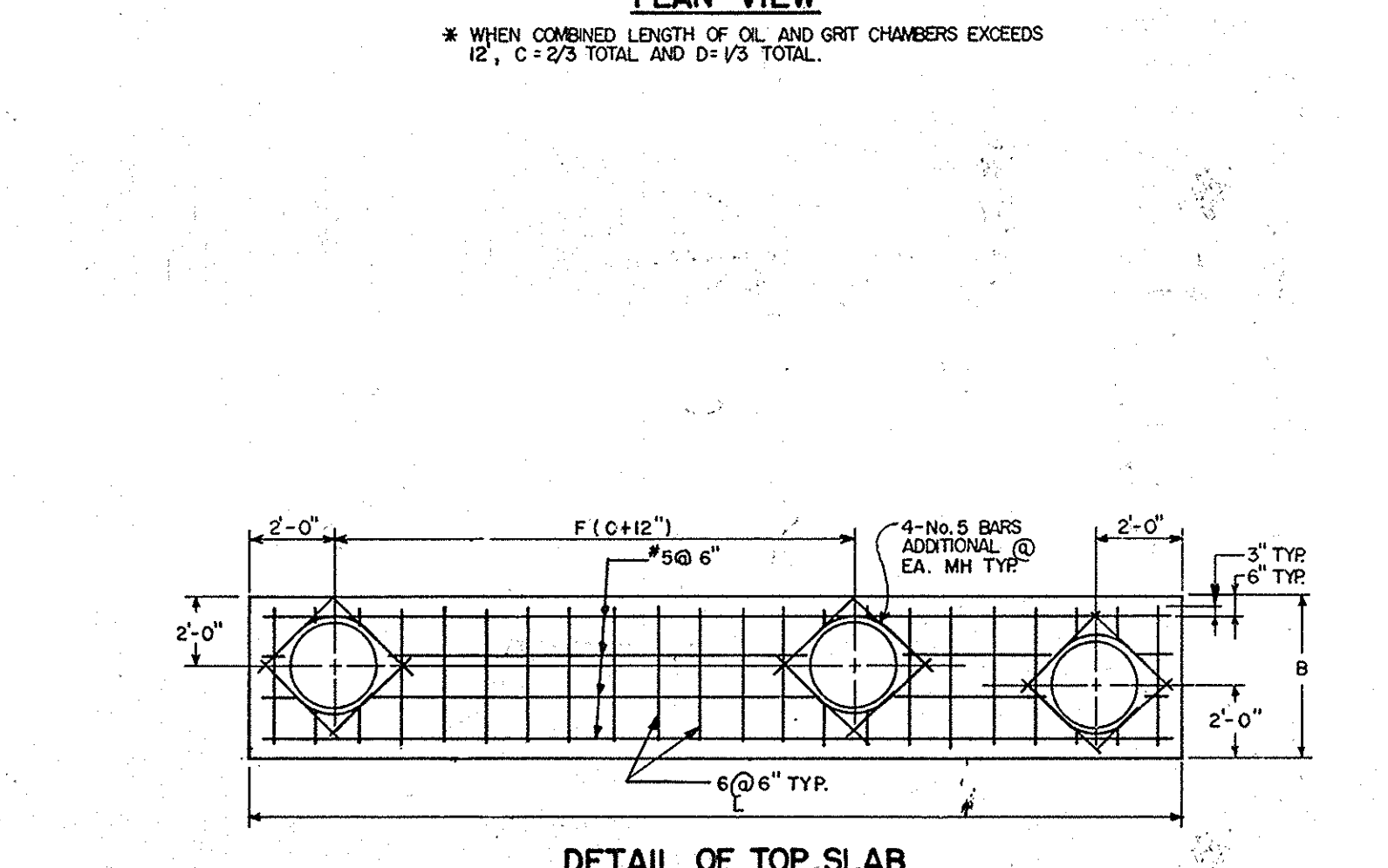
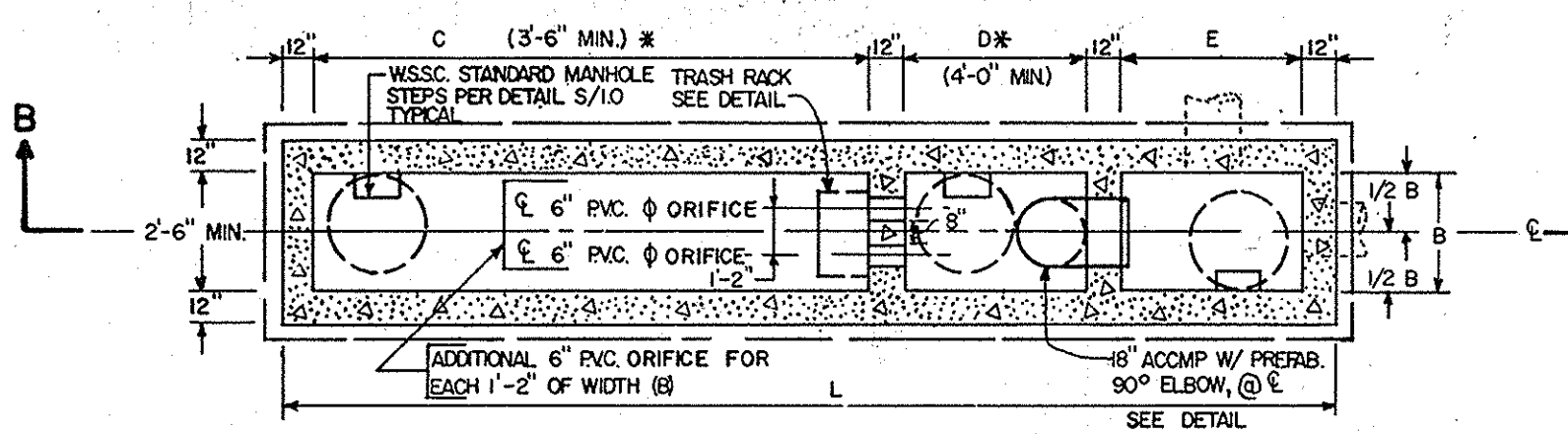
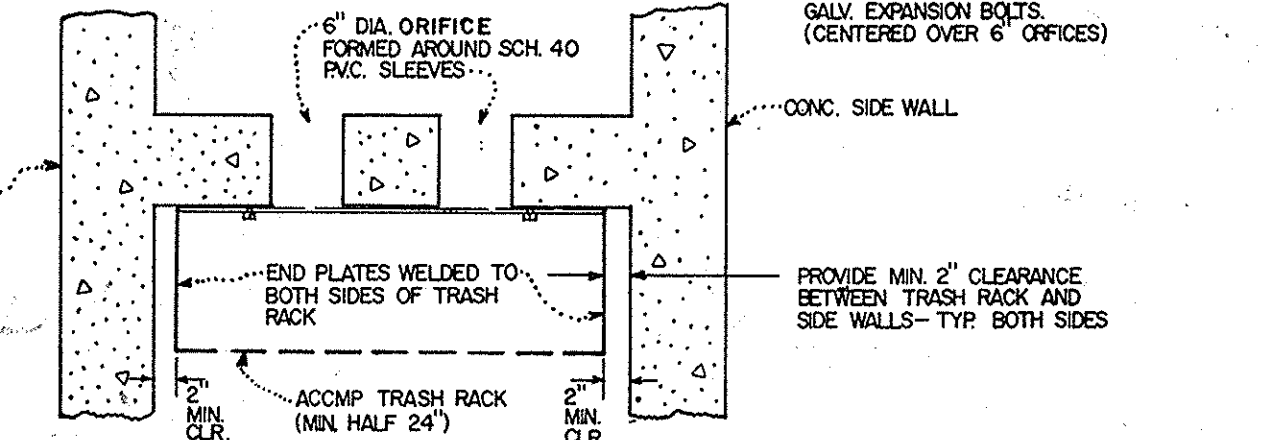
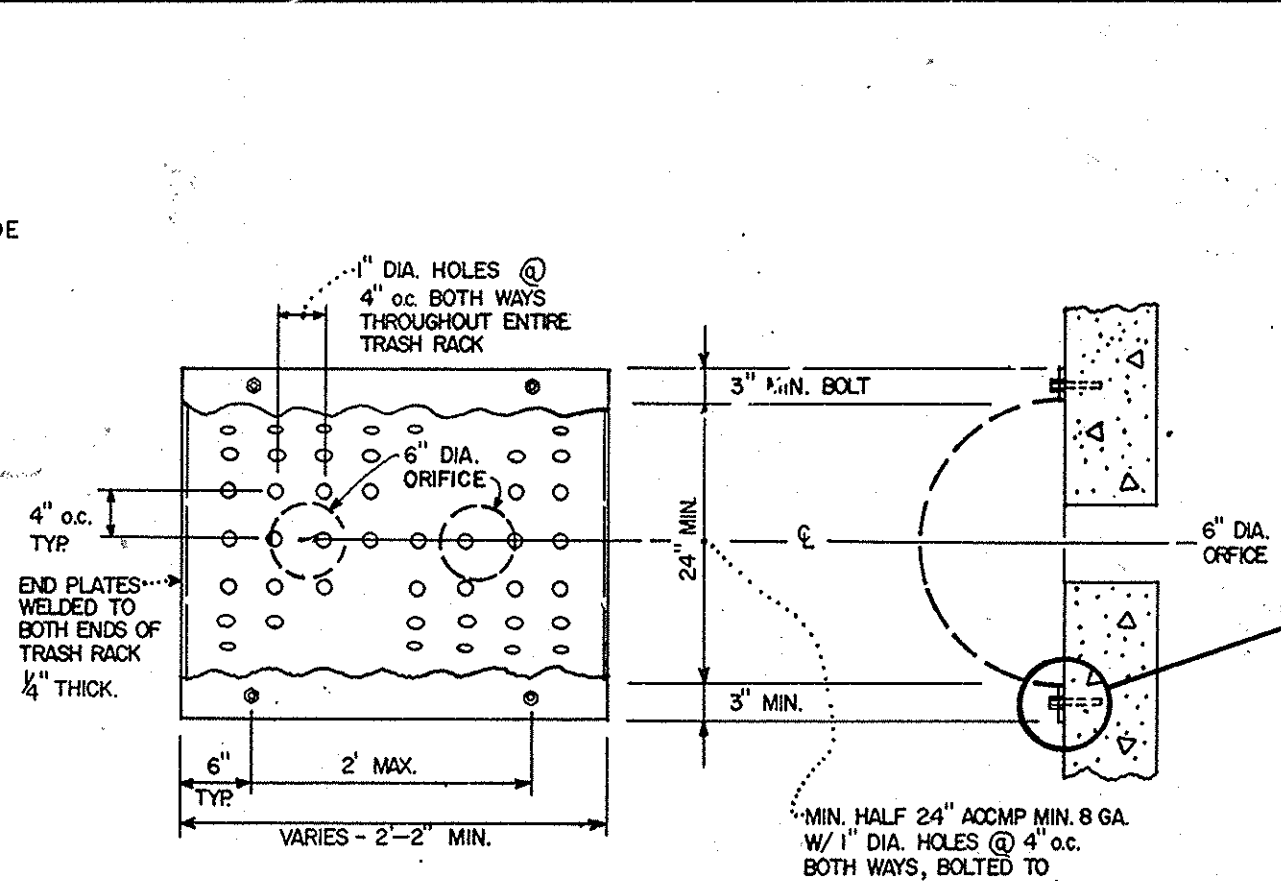
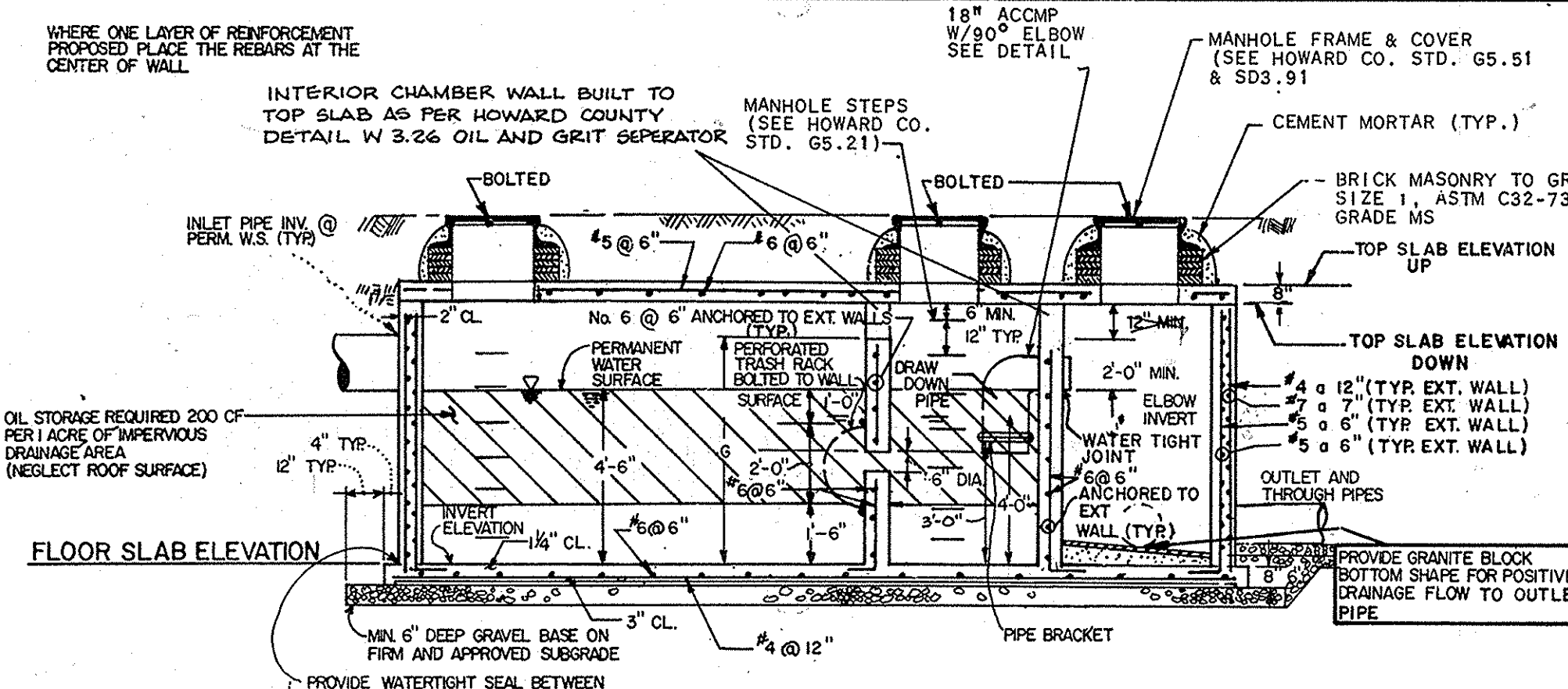
Charles S. Carnagno 7/23/90
ENGINEER: CHARLES S. CARNAGNO DATE

BY THE DEVELOPER:
"I/WE 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I/ALSO AUTHORITY PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

D. Watt 7-24-90
DEVELOPER DATE

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 7-5-90

STATE OF MARYLAND
PROFESSIONAL ENGINEER



STORM DRAIN FLOW TABULATION FORM

LOCATION	AREA	ACRES	COEFF.	CA	ΣCA	TIME CONC. MIN.	INTEN.	Q-CIA	PIPE N	0.014	REMARKS			
FROM	TO	SUB.	TOTAL	"C"	CA	INLET	DRAIN	TOTAL	"I"	CFS	SIZE	SLOPE	VEL.	LGTH.
I9	WQ1	E	1.55	0.72	1.12	7.5	7.50	6.43	7.17	18"	0.34	4.08	10'	d = 46.67%
WQ1	EX. M4	E	1.55	1.12	1.12	7.50	6.43	7.17	18"	0.34	4.08	48'	d = 4.42%	
EX. M4	EX. I7	E	1.55	1.12	1.12	7.50	6.43	7.17	24"	0.12	1.28	29'	d = 32.99%	
BLDG.	WQ1			1.0					1.11	8"	0.50	5.18	135'	d = 33.32% h = 0.010
I2	M1	B	0.47	0.70	0.33	7.81	7.81	6.36	2.09	15"	0.12	1.28	5'	d = 33.82%
M1	WQ2	B	0.47	0.33	0.33	7.81	6.36	2.09	15"	0.12	1.28	8'	d = 40.74%	
WQ2	I4	B	0.47	0.33	0.33	7.81	6.36	2.09	15"	0.12	1.28	125'	d = 34.67%	
I3	I4	A	0.26	0.74	0.19	7.10	7.10	6.52	1.26	15"	0.04	0.48	8'	d = 21.96%
I4	M2	ABC	0.78	1.48	0.64	8.91	8.91	6.18	6.18	15"	1.06	10.64	96'	d = 62.20%
I5	MH2	B	0.87	0.87	0.87	10.98	10.98	5.70	7.52	15"	0.09	0.90	11'	d = 37.56%
MH2	EX. MH	ABCD	2.15	1.32	1.32	10.98	5.70	7.52	18"	0.59	5.86	66'	d = 43.24%	
EX. MH2	EX. I	ABCD	2.59	1.32	1.32	10.98	5.70	7.52	18"	0.59	5.86	22'	d = 43.61%	

SEQUENCE OF CONSTRUCTION AND INSPECTOR'S CHECK-OFF LIST FOR SM OIL/GRIT SEPARATORS

STAGE	DEVELOPER'S/ENGINEER APPROVAL		H.C.D.P.W. INSPECTOR'S APPROVAL	
	INITIALS	DATE	INITIALS	DATE
1. PRE-CONSTRUCTION MEETING *				
2. INSTALLATION OF OIL/GRIT SEPARATOR AND ASSOCIATED STORM DRAINAGE: *				
a. FOOTING SUBGRADE PRIOR TO POURING. *				
b. FOOTING FORMED AND STEEL SET PRIOR TO POURING. *				
c. STRUCTURE SIDES FORMED AND STEEL SET PRIOR TO POURING. *				
d. PRIOR TO TOP SLAB AND MANHOLES BEING SET ON, H.C.D.P.W. INSPECTOR MUST INSPECT ALL CAST-IN-PLACE AND PRE-CAST STRUCTURES FOR PROPER ASSEMBLY. *				
3. SITE IS PERMANENTLY STABILIZED, SEDIMENT CONTROL MEASURES REMOVED AND ALL SEDIMENT AND DEBRIS REMOVED FROM THE STRUCTURE. *				
4. FINAL INSPECTION. *				

NOTE: SEE CONSTRUCTION SPECIFICATIONS FOR DETAILED REQUIREMENTS.
* MANDATORY 72 HOUR NOTIFICATION/APPROVAL OF H.C.D.P.W. INSPECTOR PRIOR TO PROCEEDING WITH NEXT STAGE.

MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE)

- WATER QUALITY STRUCTURES WILL REQUIRE PERIODICAL CLEANING. OWNERS OF THESE FACILITIES WILL HAVE TO CLEAN THEM QUARTERLY PER YEAR FROM THE APPROVAL OF INSTALLATION, OR AS DETERMINED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
- MAINTENANCE OF THESE FACILITIES WILL CONSIST OF CLEANING OUT THE SEPARATOR AND DISPOSAL OF THE WASTE AND THE REPAIR OF THE FACILITY AS NEEDED. PERIODIC INSPECTIONS OF THESE FACILITIES WILL BE MADE BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE DISPOSAL OF THE LIQUID AND SOLID MATTER SHOULD BE AS FOLLOWS:
 - ALL LIQUID MATERIAL IN THE SEPARATOR INLET SHALL BE PUMPED INTO A SUITABLE TANK TRUCK AND DISPOSED OF AT AN APPROVED SANITARY DISTRICT DISCHARGE MANHOLE OR BE TAKEN TO AN APPROVED SEWAGE TREATMENT PLANT FOR DISCHARGE.
 - THE SOLID PIPES, TRASH RACKS, GRATES, AND STRUCTURAL PARTS SHALL BE REPAIRED AS NEEDED.

CONSTRUCTION NOTES:

- SILT AND DEBRIS SHALL NOT BE ALLOWED TO ENTER THE STRUCTURES UNTIL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ALL OPENINGS TO STRUCTURES SHALL BE PROTECTED WITH THE APPROPRIATE SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.

INSPECTION NOTES:

- PRIOR TO START OF CONSTRUCTION ON WATER QUALITY STRUCTURES, THE H.C.D.P.W. INSPECTOR MUST BE CALLED 72 HOURS IN ADVANCE AT 792-7272.
- THE H.C.D.P.W. INSPECTOR MUST BE NOTIFIED 792-7272, AT EACH OF THE FOLLOWING STAGES:
 - APPROVAL OF SUBGRADE FOR FOOTINGS.
 - FOOTING FORMED AND STEEL SET PRIOR TO POURING.
 - STRUCTURE SIDES FORMED AND STEEL SET PRIOR TO POURING.
 - PRIOR TO TOP SLAB AND MANHOLES BEING SET, H.C.D.P.W. INSPECTOR MUST CHECK STRUCTURE AND ALL DEBRIS AND SILT IN STRUCTURE REMOVED.
 - WHEN SITE IS PERMANENTLY STABILIZED AND SEDIMENT CONTROL MEASURES TO PROTECT INLET ARE TO BE REMOVED.

GENERAL NOTES:

- USE POURED-IN PLACE CONCRETE FOR THE ENTIRE STRUCTURE.
- REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION FOR MATERIALS AND METHODS OF CONSTRUCTION.
- f'c = 4000psi AT 28 DAYS.
- ALL REINFORCING STEEL TO BE ASTM A613, GR. 60.
- THE TOP 4 INCHES OF WALLS MAY BE BRICK MASONRY FOR LEVELING, IF REQUIRED. BRICK MASONRY SHALL COMPLY WITH THE LATEST S.A. SPECIFICATION.

WATER QUALITY CONTROL STRUCTURE

NOT TO SCALE
ALL DIMENSIONS ARE MINIMUM DIMENSIONS
ALSO SEE HOWARD CO. STD. DETAILS W3.26 THRU W3.28

NOTES:
FOR STORM DRAIN INVERTS, SEE STORM DRAIN PROFILES, SHEETS 4 & 12 OF 12.
STORAGE REQUIRED = 40 cf. PER 0.1 AC. OF DRAINAGE AREA.
(TOTAL STORAGE COMPUTED TO DEPTH (G))
* WHEN COMBINED LENGTH OF OIL AND GRIT CHAMBERS EXCEEDS 12',
"D" = 1/2 X "C" ("C" = 2/3 TOTAL AND "D" = 1/3 TOTAL).

NOTE:
WATER QUALITY STRUCTURE AS-BUILTS PROVIDED BY CENTURY ENGINEERING 5/92
MD. P.E. NO. 11028

ADDRESS CHART

LOT NO.	ADDRESS
D-6	7060 DEEPAE DRIVE
D-II	7080 DEEPAE DRIVE

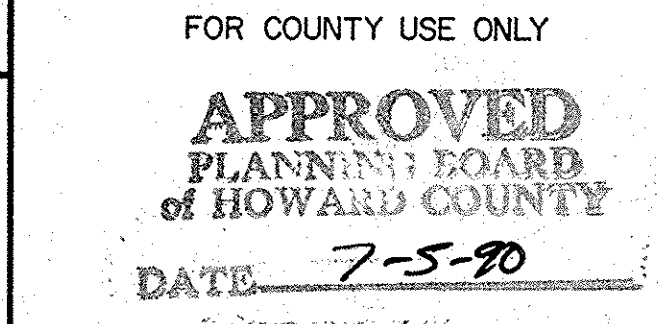
SUBDIVISION NAME: VILLAGE OF OWEN BROWN

PLAT NO. / BLOCK NO.	ZONING	TAX / ZONE MAP	ELECT. DIST.	CENSUS TR.
3337 / 4240	4	42	6	6061.03

WATER CODE: E-II
SEWER CODE: 53303006

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."
CHARLES S. CARNAGGIO
7/23/90

BY THE DEVELOPER:
"I/WE 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 NATURAL RESOURCES APPROPRIATE TRAINING BEFORE BEGINNING THE PROJECT." I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
D. WILKINSON
7/24/90



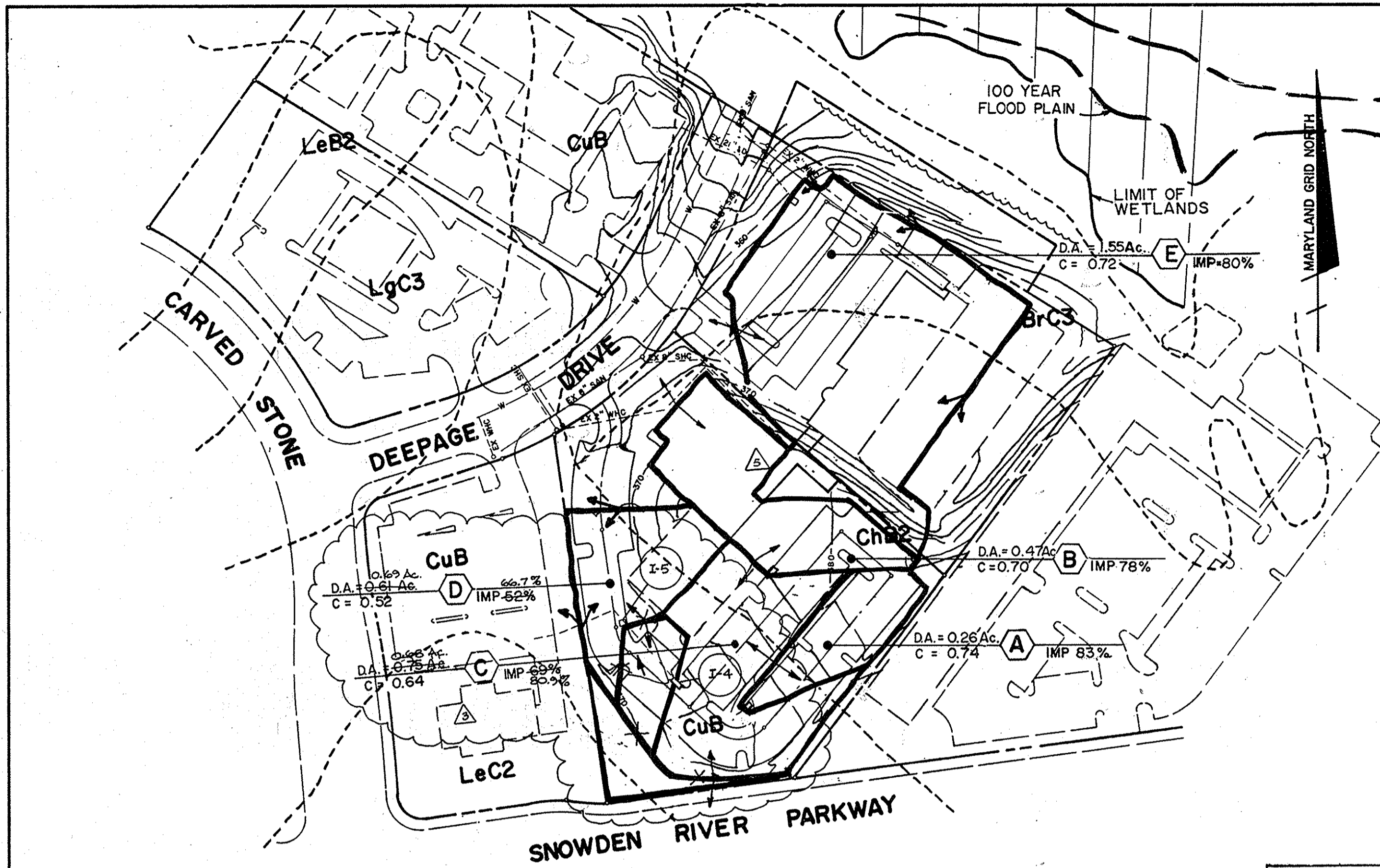
FOR COUNTY USE ONLY
DATE: 7/23/90
PROFESSIONAL ENGINEER
CHARLES S. CARNAGGIO
Professional Engr. No. 40953

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS
James M. Helm, P.E. 7/27/90
S.S. SOIL CONSERVATION SERVICE DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
John R. Robertson 7/27/90
HOWARD S.C.D. DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Bazelmd, P.E. 10/23/90
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
W. J. ... 11.1.90
PLANNING DIRECTOR DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Frank J. ... 10/16/90
PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William C. P... 8/9/90
CHIEF, BUREAU OF ENGINEERING DATE
4-2-90 1 REVISED PER HOWARD CO. COMMENTS
7-5-90 2 REVISED PER HOWARD CO. COMMENTS
Date No Revision Description
OWNER/DEVELOPER (301) 381-0020
COLUMBIA ASSOCIATION
9861 BROKEN LAND
SUITE 300
COLUMBIA, MARYLAND 21046

SUPREME COURT / SKATELAI ID
LOT D-II LOT D-6
CENTURY ENGINEERING, INC.
(301) 823-8070
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204
(301) 823-8070
AREA RECORD PLAT REFERENCE NO. 3337, 4240
VILLAGE OF OWEN BROWN
SECTION 2 AREA 2 LOTS D-6, D-11
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD.
TITLE WATER QUALITY INLET DETAILS
Des By NAM Scale 1" = 30' Proj No 89-064
Dwn By FLP Date DEC. 26, 1989 Drawing No
Chk By DDS Approved CSC 5 OF 14

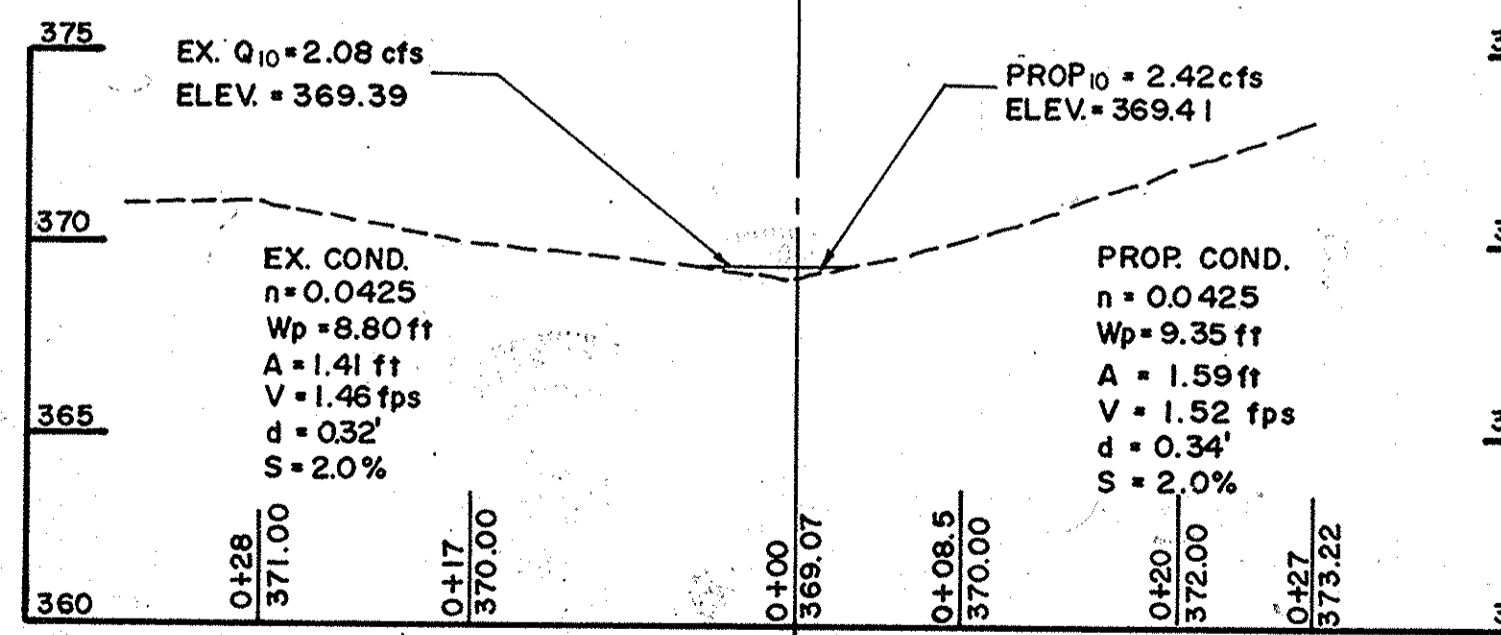


DRAINAGE AREA MAP
SCALE: 1"=100'

SOIL TYPE	HYDROLOGIC CLASS	DESCRIPTION
Br C3	C	BRANDY WINE LOAM, 8 TO 15% SLOPES, SEVERELY ERODED
Ch B2	B	CHESTER SILT LOAM, 3 TO 8% SLOPES, MODERATELY ERODED
Cu B	B	COMUS SILT LOAM, LOCAL ALLUVIUM, 3 TO 8% SLOPES, MODERATELY ERODED
Le B2	B	LEGORE SILT LOAM, 3 TO 5% SLOPES, MODERATELY ERODED
Le C2	B	LEGORE SILT LOAM, 8 TO 15% SLOPES, MODERATELY ERODED
Lg C3	B	LEGORE SILTY CLAY LOAM, 8 TO 15% SLOPES, SEVERELY ERODED

SEDIMENT CONTROL NOTES

- 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.
- 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.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 2:1, b) 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 53), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding rates 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 Site: 3.4452 Acres
Area Disturbed: 1.2377 Acres
Area to be roofed or paved: 1.2377 Acres
Area to be vegetatively stabilized: 2.2075 Acres
Total Cut: 3.4452 Cu. Yds.
Total Fill: 3.4452 Cu. Yds.
Offsite waste/borrow area location: TO BE DETERMINED
- 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 DWS Sediment Control Inspector.
- On all sites with 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.

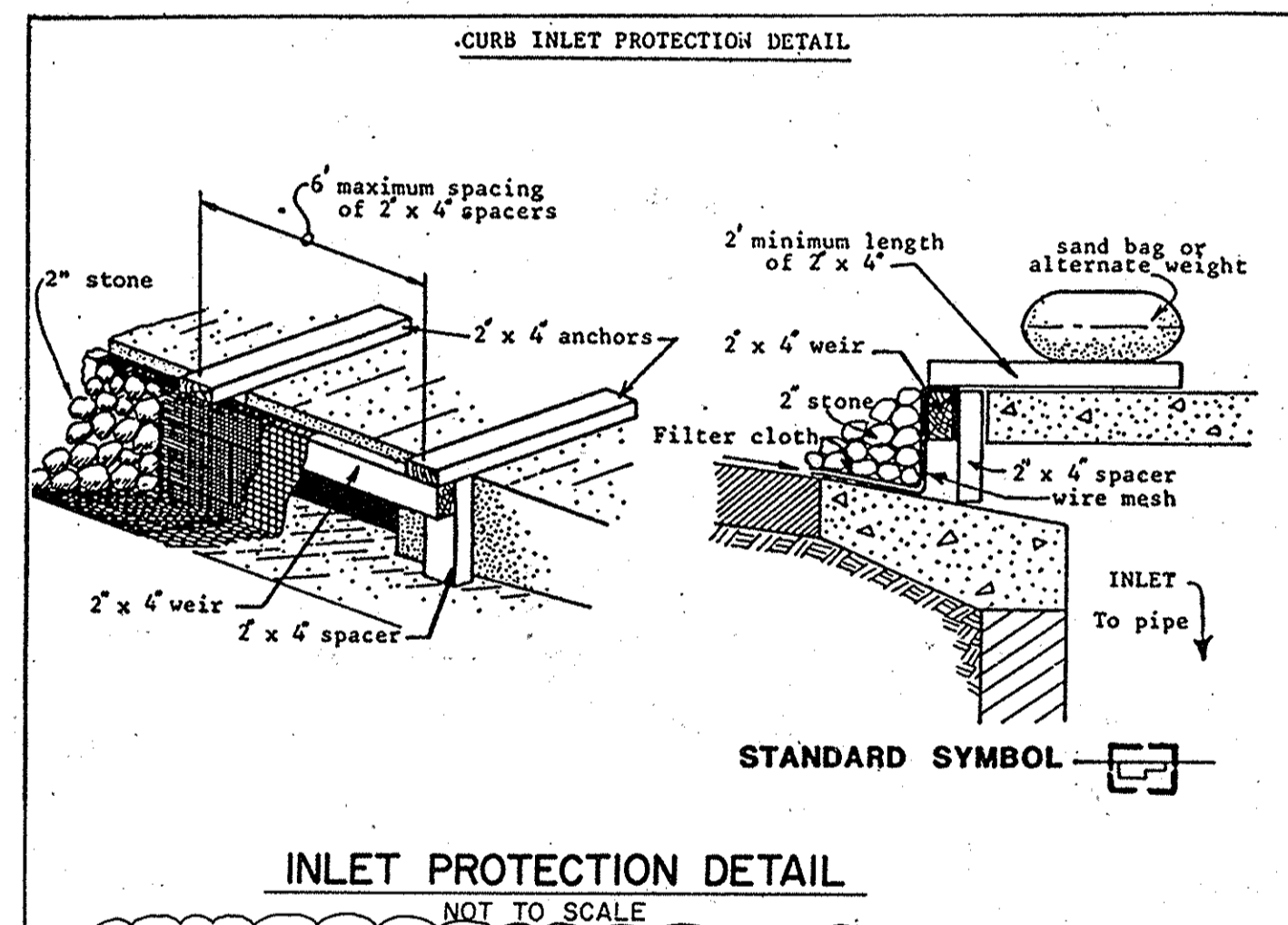


SECTION A-A
SCALE: HORIZ. 1"=10', VERT. 1"=5'

NO.	DATE	REVISION
1	10-20-04	ADDED CANOPY BETWEEN BLDG'S A#8, ADDED G/FIRE CONN, UPDATED EX. CONDITIONS

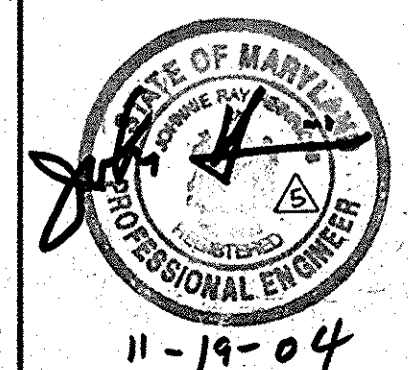
NO.	DATE	REVISION
1	10-20-04	ADDED CANOPY BETWEEN BLDG'S A#8, ADDED G/FIRE CONN, UPDATED EX. CONDITIONS

NO.	DATE	REVISION
1	10-20-04	ADDED CANOPY BETWEEN BLDG'S A#8, ADDED G/FIRE CONN, UPDATED EX. CONDITIONS



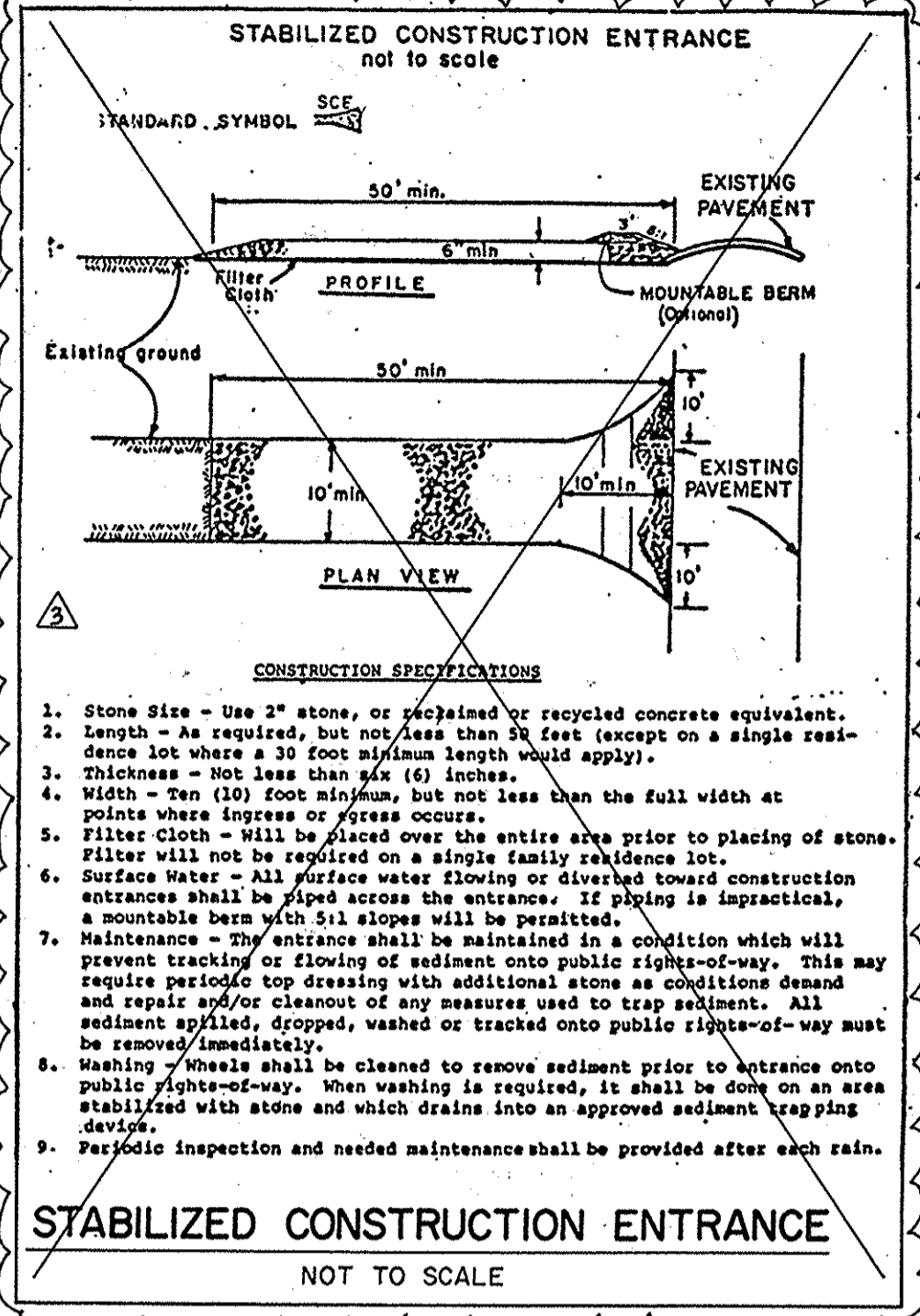
INLET PROTECTION DETAIL
NOT TO SCALE

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - NOTIFY THE DEPARTMENT OF PUBLIC WORKS' SEDIMENT CONTROL INSPECTOR FOR HOWARD COUNTY 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
 - STAKE OUT LIMITS OF DISTURBANCE AND SEDIMENT AND EROSION CONTROL DEVICES (PROVIDE SEDIMENT AND EROSION CONTROL).
 - WITH THE PERMISSION OF THE DEPARTMENT OF PUBLIC WORKS' SEDIMENT CONTROL INSPECTOR, BEGIN CONSTRUCTION.
 - STAKE OUT BUILDING-ADDITION AND REVISED PARKING AREAS.
 - BEGIN DEMOLITION OF EXISTING STRUCTURES, BITUMINOUS CONCRETE AND ASPHALTMENTS AS REQUIRED.
 - CLEAR AND GRUB AREAS TO BE GRADED.
 - GRADE FOR NEW BUILDING-ADDITION.
 - BRING ALL AREAS TO SUBGRADE.
 - BEGINNING AT THE UPSTREAM PORTION OF THE DRAINAGE AREA, STABILIZE ALL DISTURBED AREAS BEFORE ALLOWING RUNOFF TO ENTER THE WATER QUALITY STRUCTURES.
 - CONTINUE THIS PROCESS AND REMOVE EXISTING STORM DRAIN STRUCTURES AS SHOWN UNTIL STORM DRAIN SYSTEM IS COMPLETED.
 - CONTRACTOR IS GIVEN 15 DAYS FROM THE TIME THE AREA IS DISTURBED UNTIL THE AREA IS STABILIZED. CONTRACTOR SHALL STABILIZE ALL AREAS NOT TO BE PAVED BY SEEDING. REFER TO TEMPORARY AND PERMANENT SEEDING NOTES.
 - WITH THE PERMISSION OF THE DEPARTMENT OF PUBLIC WORKS' SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE REMAINING AREAS.

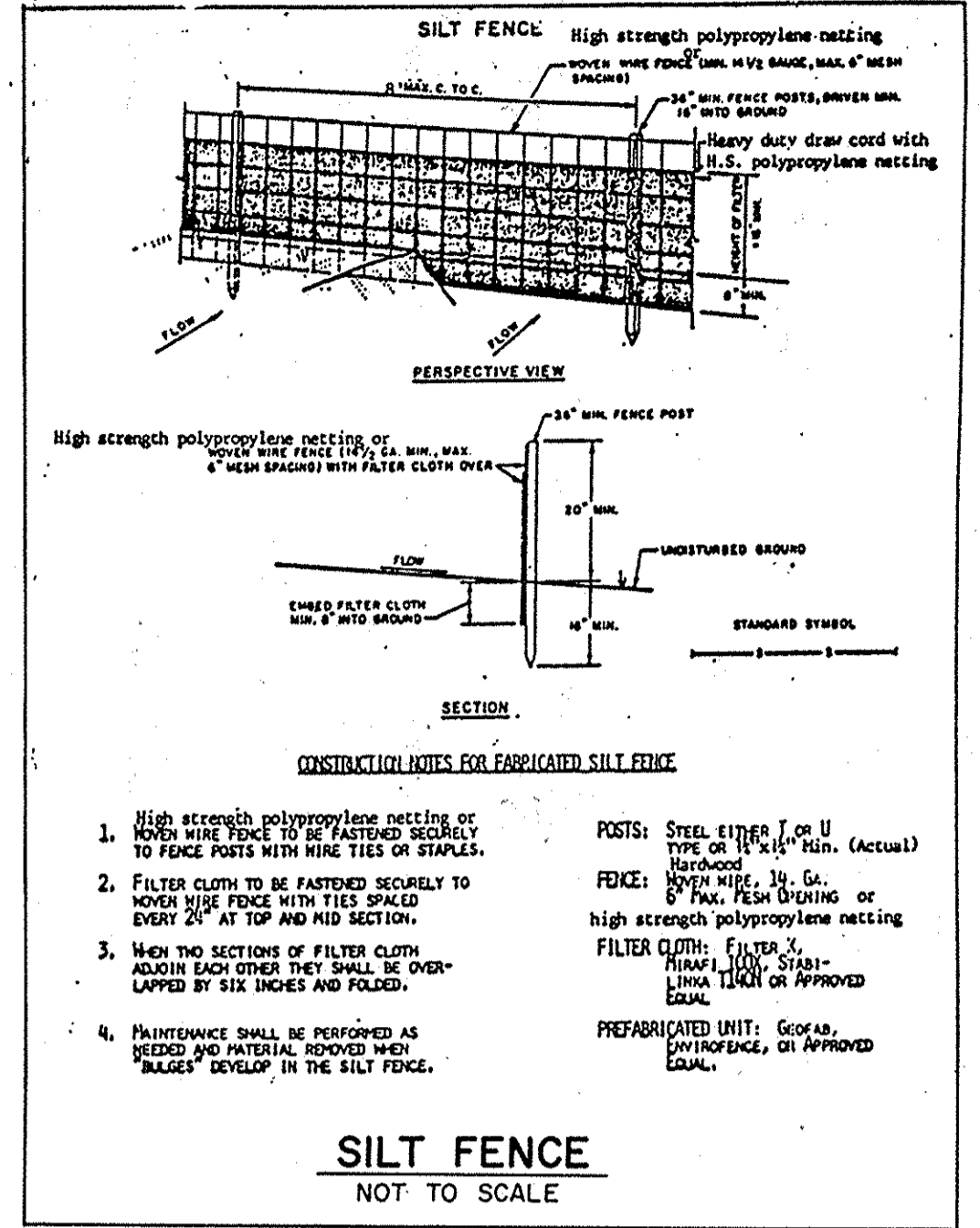


BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
ENGINEER: CHARLES S. CARROZZINI
DATE: 7/23/90

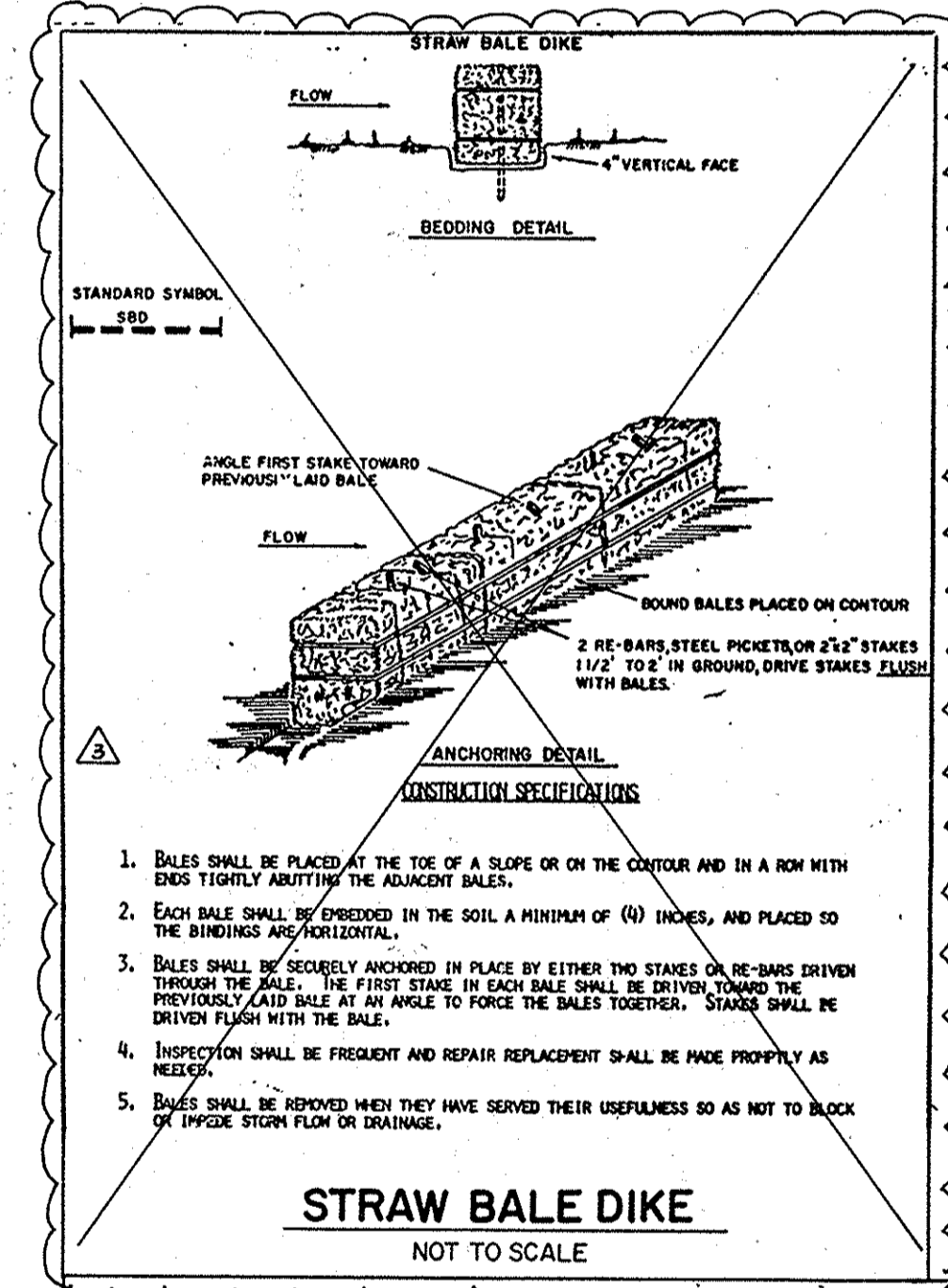
BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT." I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
DEVELOPER: [Signature]
DATE: 7-24-90



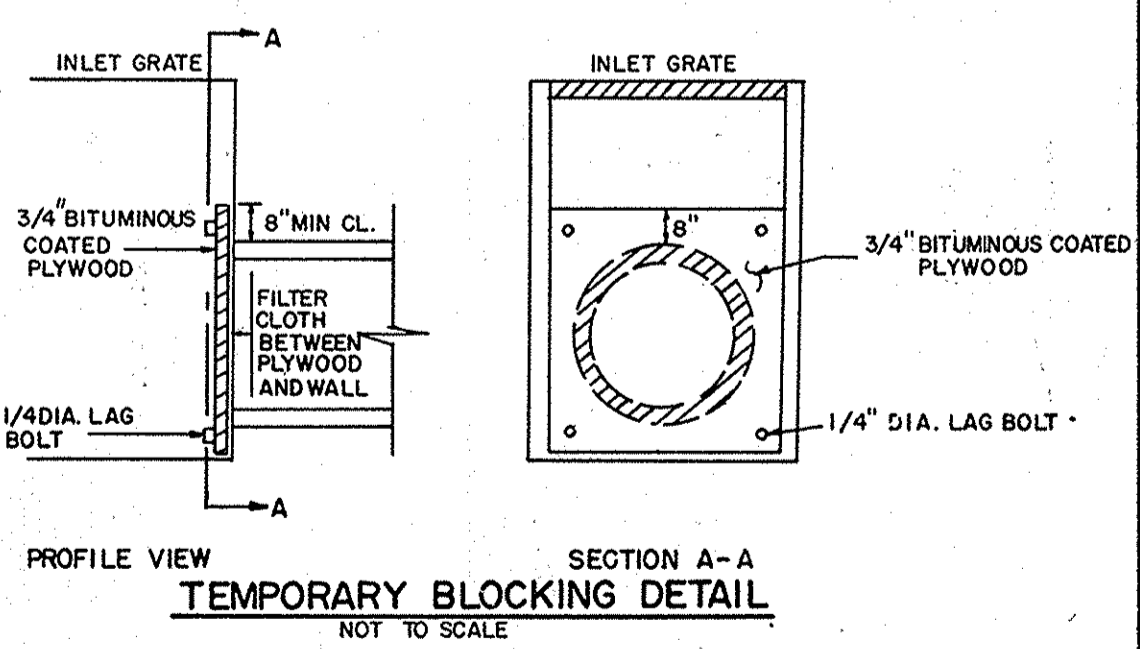
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



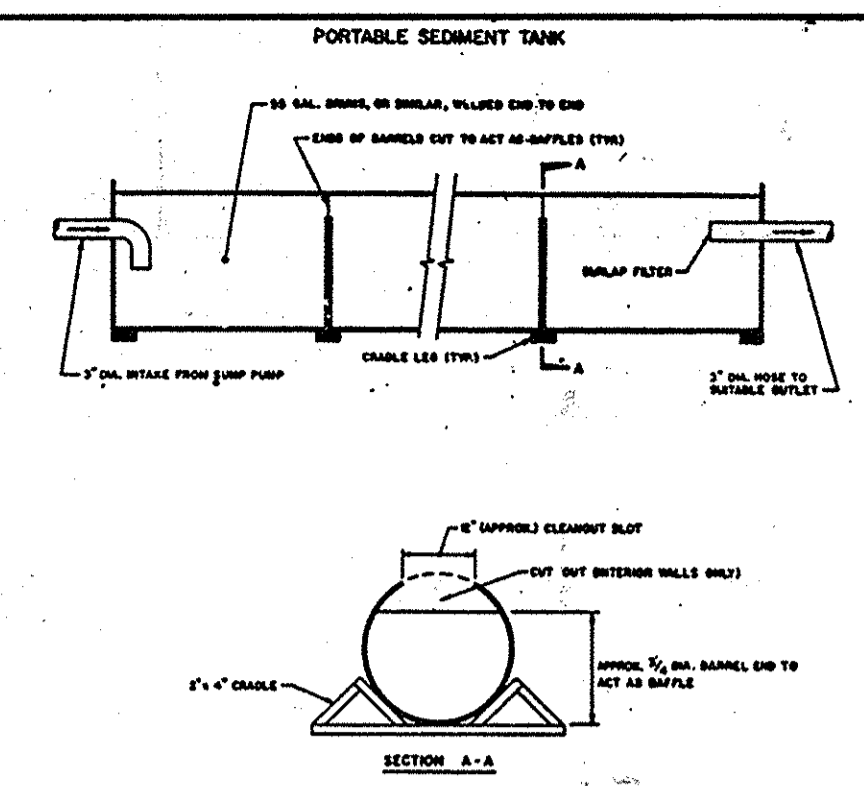
SILT FENCE
NOT TO SCALE



STRAW BALE DIKE
NOT TO SCALE



TEMPORARY BLOCKING DETAIL
NOT TO SCALE



PORTABLE SEDIMENT TANK
NOT TO SCALE

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
James M. Helms
U.S. CONSERVATION SERVICE
DATE: 7/27/90

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Robertson
HOWARD S.C.D.
DATE: 7/27/90

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

James M. Beard
COUNTY HEALTH OFFICER
DATE: 10/23/90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Planning Director
DATE: 11.1.90

Chief, Division of Community Planning and Land Development
DATE: 10/26/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
Howard County Department of Public Works
Acting Director
DATE: 10/16/90

William E. Ryan
CHIEF, BUREAU OF ENGINEERING
DATE: 8/7/90

Date	No.	Revision Description
4-2-90	1	REVISED PER HOWARD CO. COMMENTS
7-5-90	2	REVISED PER HOWARD CO. COMMENTS

OWNER/DEVELOPER (301) 381-0020
COLUMBIA ASSOCIATION
9861 BROKEN LAND
SUITE 300
COLUMBIA, MARYLAND 21046

SUPREME COURT/SKATELAND
LOT D-11 LOT D-6

CENTURY ENGINEERING, INC.
(301) 823-8070
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA RECORD PLAT REFERENCE NO. 3337, 4240
VILLAGE OF OWEN BROWN
SECTION 2 AREA 2 LOTS D6 & D11
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD

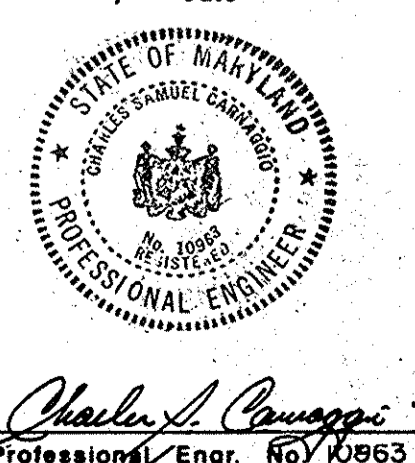
GRADING AND SEDIMENT EROSION CONTROL DETAILS

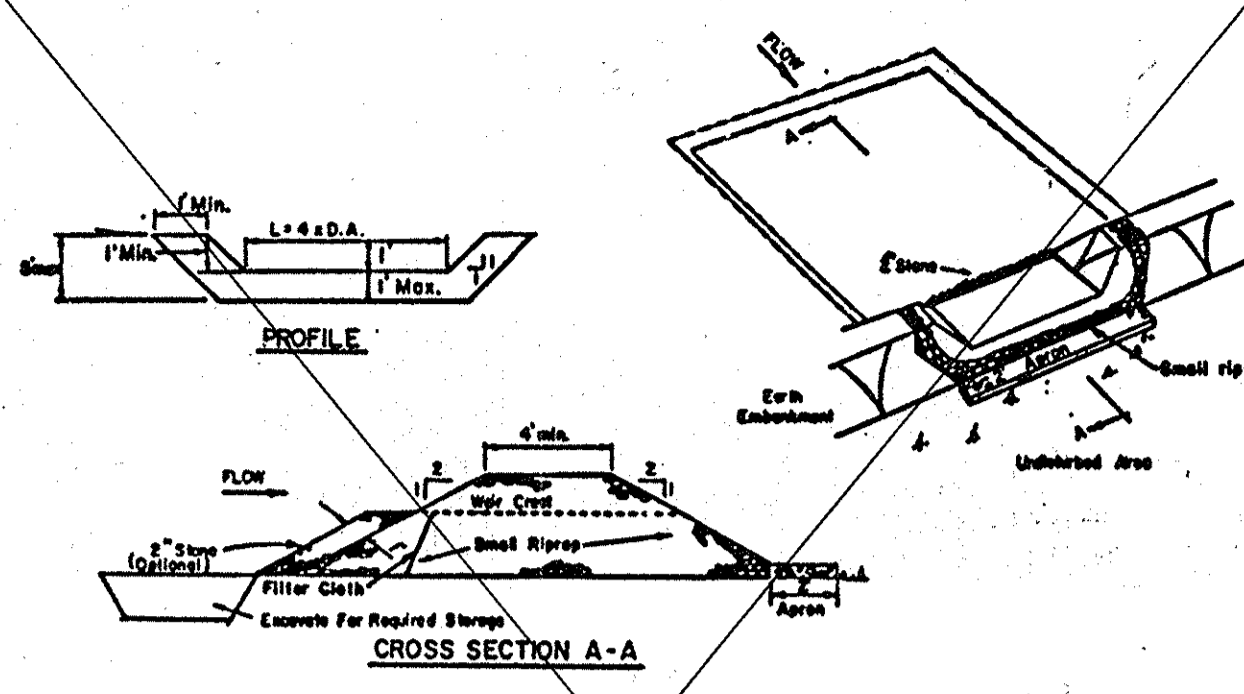
Des By: NAM
Dwn By: MAG
Chk By: DDS

Scale: AS SHOWN
Date: DEC 26, 1989
Approved: CSC

Proj No: 89-064
Drawing No: 7- OF 14

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: 7-5-90





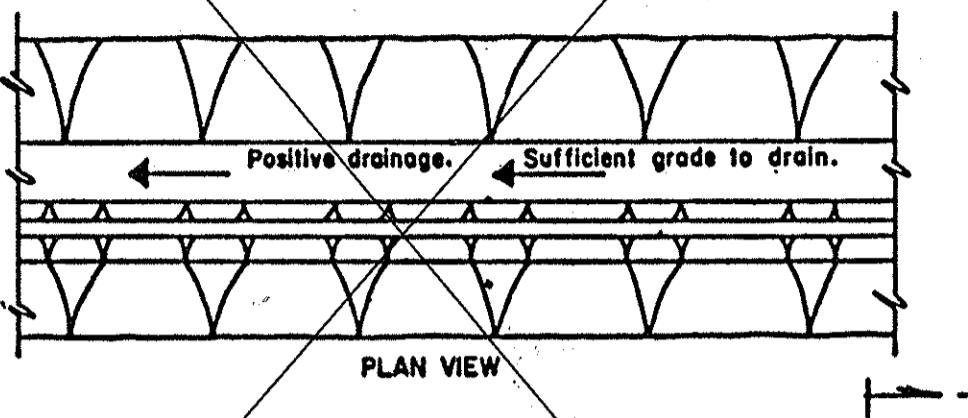
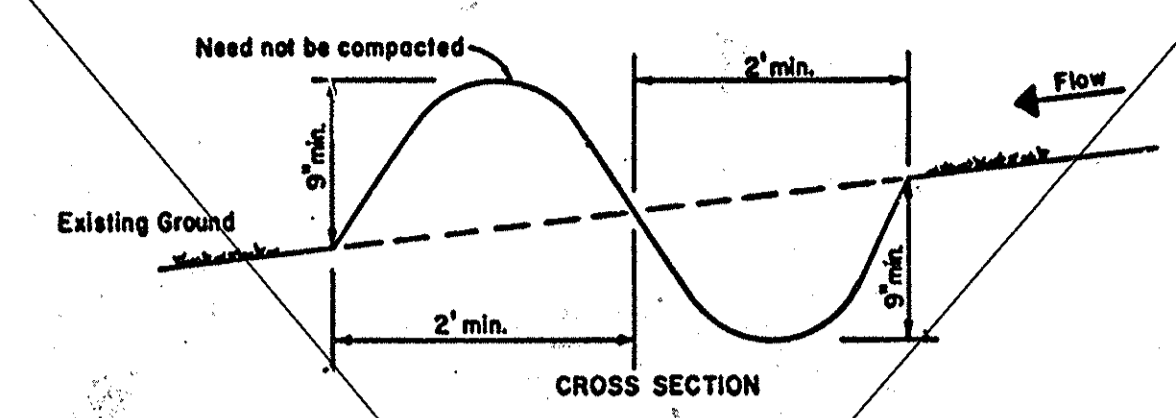
OPTION: A one foot layer of 3" stones may be placed on the upstream side of the riprap in place of the embedded filter cloth.

CONSTRUCTION SPECIFICATIONS FOR ST-1

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side on the small riprap embedded filter cloth in the riprap.
- 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.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

STONE OUTLET SEDIMENT TRAP
SCALE: NTS



- ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
 - STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SEED AND STRAW MULCH, AND SHALL BE DONE WITHIN 30 DAYS.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
- Max. Drainage Area Limit: 2 Acres

PERIMETER DIKE/SWALE
SCALE: NTS

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION PERMANENT SEEDINGS

Definition: Planting vegetation such as grasses and legumes on critical areas.

Purpose: To temporarily stabilize the soil to reduce damage from sediment and runoff to downstream areas; improve wildlife habitat; enhance natural beauty.

Conditions Where Practice Apply: Graded or cleared areas subject to erosion and where a permanent, long-lived vegetative cover is needed.

Specifications: Vegetation cannot be expected to provide an erosion control cover and prevent soil slippage on a soil that is not stable due to its texture, structure, water movement or excessively steep slope.

Minimum soil conditions needed for the establishment and maintenance of a long-lived vegetative cover:

- Enough fine-grained materials (over 30 percent silt plus clay) to provide the capacity to hold at least a moderate amount of available moisture. Multibillion acreages would be planting legumes and exotic legumes which can be planted on a sandy soil.
- Sufficient pore space to permit adequate root penetration.
- The soil shall be free from any material harmful to plant growth.
- If these conditions cannot be met, see specification, Topsoiling (52.01).

Site Preparation:

- Install needed erosion and sediment control practices such as dikes, contour ripping, erosion sills, channel liners, sediment basins, or other practices.
- Grade as needed and feasible to permit the use of conventional equipment for seeding, topsoiling, mulch application, anchoring and maintenance.

Soil Preparation: When the soil to be seeded has been recently loosened to the extent that an adequate seed bed exists, no additional treatment is required. If the soil is not adequately loosened, the following practices shall be used: 1. Topsoiling: Topsoil shall be loosened to a depth of at least 3 inches. The top layer of soil shall be loosened by cutting, discing or other acceptable means before seeding. Slopes steeper than 3:1 shall have the top 1-3 inches of soil loose and friable before seeding.

Soil Amendments: Lime and fertilizer according to soil tests. Lime and fertilizer needs can be determined by a soil testing laboratory, such as the University of Maryland's Soil Testing Laboratory.

In lieu of soil test results, apply two tons dolomitic limestone per acre and one of the following rates of fertilizer: 1,000 pounds 10-10-10 or equivalent per acre. For a longer lasting fertilizer treatment apply 600 pounds 10-10-10 or equivalent per acre and disk in and at time of seeding apply an additional 400 pounds of a urea-form fertilizer of a grade of at least 20-0-0 per acre. If the soil is not adequately loosened before seeding and/or disk uniformly into the soil to a minimum depth of 3 inches on slopes flatter than 3:1. On slopes steeper than 3:1, grade, the lime and fertilizer shall be worked the best way possible. On sloping land, the final harrowing or discing operation should be on the contour wherever feasible. No placement should be made to drag any disk area to make the soil surface smooth after seeding.

Note: The slow release urea-form fertilizer will supply nitrogen over a longer period of time.

Seeding:

- Select a mixture from Table 51-1.
- Apply seed uniformly with a cyclone seeder, drill, cultipacker, roller or hydroseeder (slurry includes seed and fertilizer) on a firm, moist seedbed. Maximum seeding depth shall be 1/2 inch on heavy soils and 1/4 inch on sandy soils, when using other than hydroseeder methods. Application depth shall be uniform in site and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be immediate without interruption.

Mulching: Mulch materials are listed in order of their effectiveness. Mulch materials are normally only used on critical areas such as waterways or steep slopes.

Materials and Amounts:

- Mulch Matting:** - Such as jute or excelsior blanket shall be applied to the surface in waterways and on steep slopes. Lighter materials of paper, plastic and cotton mulch matting may be used where erosion hazard is not severe. If the area is to be mowed, do not use metal staples.
- Straw:** - Straw shall be unrotted small grain straw applied at the rate of 1/2 to 2 tons per acre, or 70 to 90 (two bales) pounds per 1,000 sq. ft. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds such as: thistles, Johnsongrass and quackgrass. Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 square foot sections and place 70-90 lbs. of mulch in each section.
- Wood chips:** - at the rate of approximately 6 tons per acre or 275 pounds per 1,000 square foot may be used when available and when feasible. These are particularly well-suited for utility and road rights-of-way. If wood chips are used, increase the application rate of nitrogen fertilizer by 20 pounds (200 pounds 10-10-10 or 66 pounds 30-0-0).
- Wood cellulose fiber:** - mulch at the rate of 1,500 pounds per acre or 35 pounds per 1,000 square foot may be applied by hydroseeding.
- Mulch anchoring:** shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by one of the following methods, (listed by preference): depending upon size of area, erosion hazard, and cost. On sloping land, practice No. 1 below, should be done on the contour wherever possible, except "tracking" should be done up and down the slope with 1/2 inch cleat marks running across the slope.

TABLE 51-2
Minimum Seeding Rates for Permanent Seeding on Soil Test Recommendations of Later Shows Below

Soil Test Recommendation	Species Mixture	Population (Lbs. Per Acre)	Rate (Lbs. Per 1,000 Sq. Ft.)	Time	Notes
1, 2, 3, 7, 8, 10	Full season mix of 30% 10-10-10	500	11.3	Yearly, or as needed	Use clear than 2" if occasional mowing is desired.
4, 5, 6, 7	Grass-legume mixture	400	9.3	Yearly, or as needed	Do not mow crown-cut.
9, 11	Grass-legume mixture	300	7.3	Yearly, or as needed	Use clear than 2" if occasional mowing is desired, and fall after mowing.
12, 13, 14	Grass-legume mixture	200	5.3	Yearly, or as needed	Use clear than 2" for for trees and shrubs and clear than 3" for forest.
15, 17	Grass-legume mixture	100	2.3	Yearly, or as needed	

TABLE 51-1
Permanent Seeding and Seeding Dates

Species	Planting Date	Seeding Date	Seeding Rate (Lbs. Per 1,000 Sq. Ft.)
1. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	11.3
2. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	9.3
3. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	7.3
4. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	5.3
5. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	2.3
6. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	11.3
7. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	9.3
8. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	7.3
9. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	5.3
10. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	2.3
11. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	11.3
12. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	9.3
13. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	7.3
14. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	5.3
15. Kentucky 31 Tall Fescue	4/15 - 6/15	4/15 - 6/15	2.3

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION TEMPORARY SEEDING

Definition: Planting short-term vegetation on critical areas.

Purpose: To temporarily stabilize the soil to reduce damage from sediment and runoff to downstream areas; improve wildlife habitat; enhance natural beauty.

Conditions Where Practice Apply: Graded or cleared areas which are subject to erosion for a period of 14 days or more.

Specifications:

- Site Preparation:**
 - Prior to seeding, install needed erosion and sediment control practices such as diversions, grade stabilization structures, basins, dikes, grassed waterways, and sediment basins.
 - Final grading and shaping has usually not been completed for temporary seedings.
- Soil Amendments:** For temporary seedings, fertilizer shall be applied at the rate of 600 lbs./ac. or 15 lbs./1,000 sq. ft., using 10-10-10 or equivalent. Soils which are highly acid should be limed.
- Seedbed Preparation:** When the area to be seeded has been recently loosened to the extent that an adequate seed bed exists, no additional treatment is required. However, when the area to be seeded is packed, crusted, and hard, the top layer of soil shall be loosened by discing, raking or other acceptable means before seeding.
- Seeding:**
 - Select a mixture from Table 50-1.
 - Apply seed uniformly with a cyclone seeder, drill, cultipacker, roller or hydroseeder (slurry includes seed and fertilizer).
- Mulching:** When seedings are made on critical sites or adverse soil conditions, mulch material will be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soils on very flat areas may not need to be mulched. Mulch materials are listed in order of their effectiveness.

TABLE 50-1
Temporary Seedings by Rates, Dates and Dates

Species	Seeding Rate		Planting Date		Seeding Dates	
	Lbs. Per 1,000 Sq. Ft.	(Inches)	CONSTANT PLAIN	MOUNTAINS	CONSTANT PLAIN	MOUNTAINS
Barley	25	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Oats	25	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Rye	25	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Timothy	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Wheat	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Wheatgrass	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Wheatgrass	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15

Notes:

- Use only on areas where seed stalks and volunteer growth are acceptable.
- Applicable on slopes 3:1 or less.
- Use varieties currently recommended for Maryland. Use certified seed when available.
- Use common seedlings varieties only. Do not use hybrids.
- Twenty pounds per acre of annual legumes may be added to 1/2 the seeding rate of any species used for seedings.
- Between fall and spring seeding dates, use mulching only or sodding practices.
- Applicable during entire period.
- Not applicable in period.

TABLE 50-1
Temporary Seedings by Rates, Dates and Dates

Species	Seeding Rate		Planting Date		Seeding Dates	
	Lbs. Per 1,000 Sq. Ft.	(Inches)	CONSTANT PLAIN	MOUNTAINS	CONSTANT PLAIN	MOUNTAINS
Barley	25	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Oats	25	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Rye	25	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Timothy	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Wheat	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Wheatgrass	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15
Wheatgrass	40	1-2	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15	4/15 - 6/15

Notes:

- Use only on areas where seed stalks and volunteer growth are acceptable.
- Applicable on slopes 3:1 or less.
- Use varieties currently recommended for Maryland. Use certified seed when available.
- Use common seedlings varieties only. Do not use hybrids.
- Twenty pounds per acre of annual legumes may be added to 1/2 the seeding rate of any species used for seedings.
- Between fall and spring seeding dates, use mulching only or sodding practices.
- Applicable during entire period.
- Not applicable in period.

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."

BY THE DEVELOPER:
"I 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT." I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DATE: 7/23/90
DATE: 7-24-90

REVISION TOTAL SHEETS

Date	No.	Revision Description
April 1995	1	PARKING EXPANSION
4-1-16	2	REVISE TOTAL SHEETS

FOR COUNTY USE ONLY

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 7-5-90

7/23/90
DATE

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

James M. Helms 7/27/90
S.O.I.L. CONSERVATION SERVICE DATE

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

John R. Roberts 7/27/90
HOWARD S.C.D. DATE

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

Joyce M. Boudreau 10/23/90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

U. S. S. 11.1.90
PLANNING DIRECTOR DATE

Frank J. Aragon 10/24/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

Donald J. Jackson 10/16/90
ACTING DIRECTOR DATE

William P. Riley 8/2/90
CHIEF, BUREAU OF ENGINEERING DATE

4-2-90 1 REVISED PER HOWARD COUNTY COMMENTS
7-5-90 2 REVISED PER HOWARD COUNTY COMMENTS

OWNER/DEVELOPER (301) 381-0C20

COLUMBIA ASSOCIATION
9661 BROKEN LAND
SUITE 300
COLUMBIA, MARYLAND 21046

SUPREME COURT/SKATELAND

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA RECORD PLAN REFERENCE NO. 3337, 4240
VILLAGE OF OWEN BROWN
SECTION 2 AREA 2 PARCELS D6 & D11
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD

TITLE GRADING AND SEDIMENT EROSION CONTROL DETAILS

Des By CEI Scale AS NOTED Proj No 89-064
Drn By CEI Date MARCH 8, '90 Drawing No. 8 OF 11
Chk By RFM Approved CSC

ADDRESS CHART

LOT NO.	ADDRESS
D-6	7060 DEEPAE DRIVE
D-11	7080 DEEPAE DRIVE

SUBDIVISION NAME
VILLAGE OF OWEN BROWN

PLAT NO./BLOCK NO.	ZONE	TAX/ZONE-42 MAP	ELECT. DIST.	CENSUS TR.
3337/4	NEW TOWN COMMERCIAL	42	6	6061.03

SECT./AREA 2/2

LOT PARCEL NO. D-6 & D-11

SEWER CODE E-11

53303006

ENGINEER: CHARLES S. CARVASSIO
DATE: 7/23/90

DEVELOPER: DATE: 7-24-90

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 7-5-90

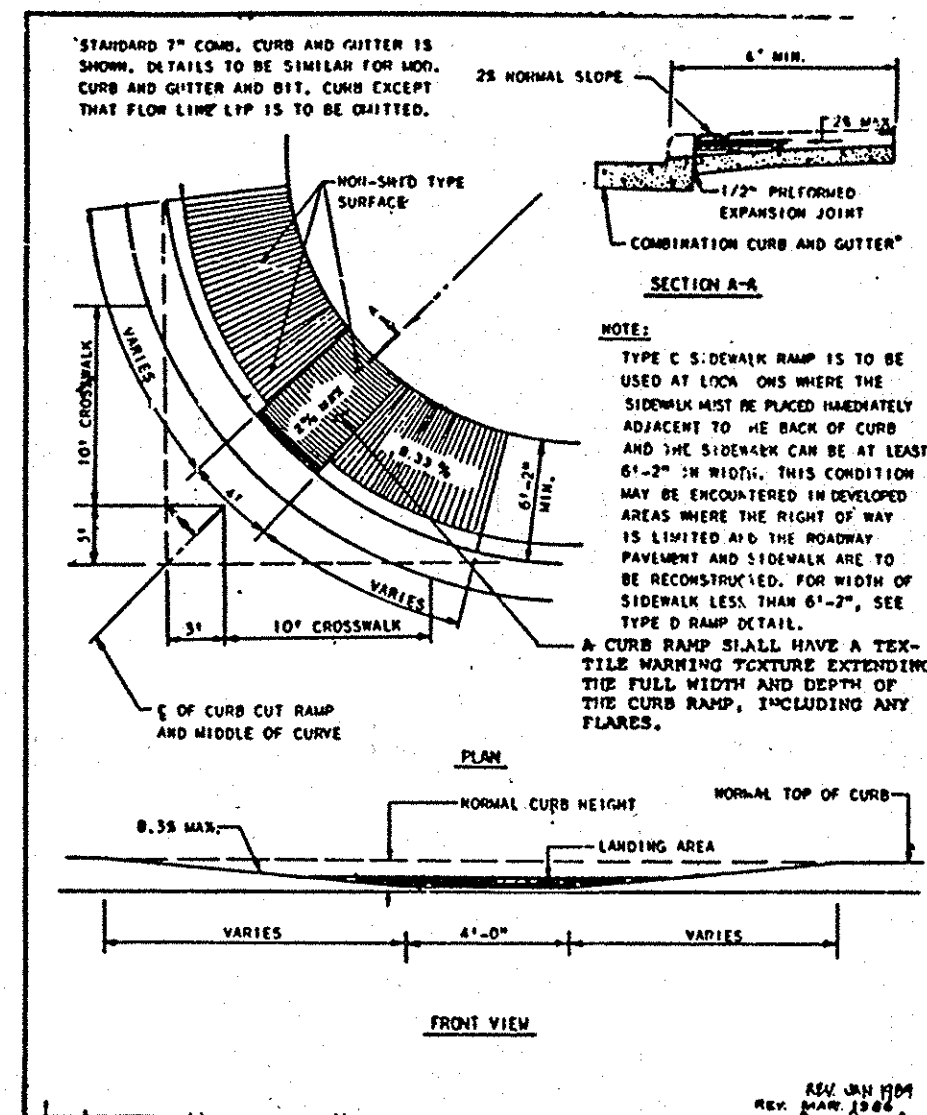
PROFESSIONAL ENGINEER
DATE: 7/23/90
DATE

DESIGNER: DATE: 7-24-90

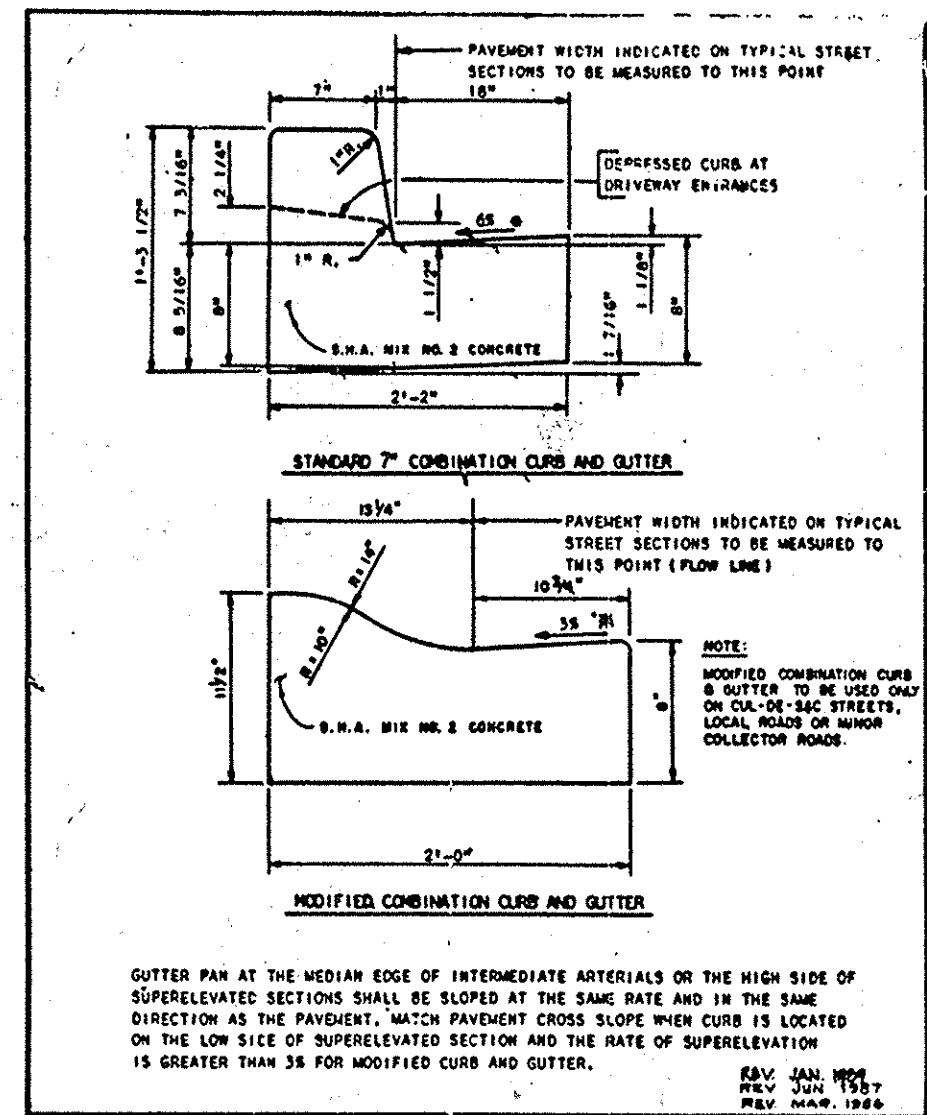
DATE: 7-24-90

DATE: 7-24-90

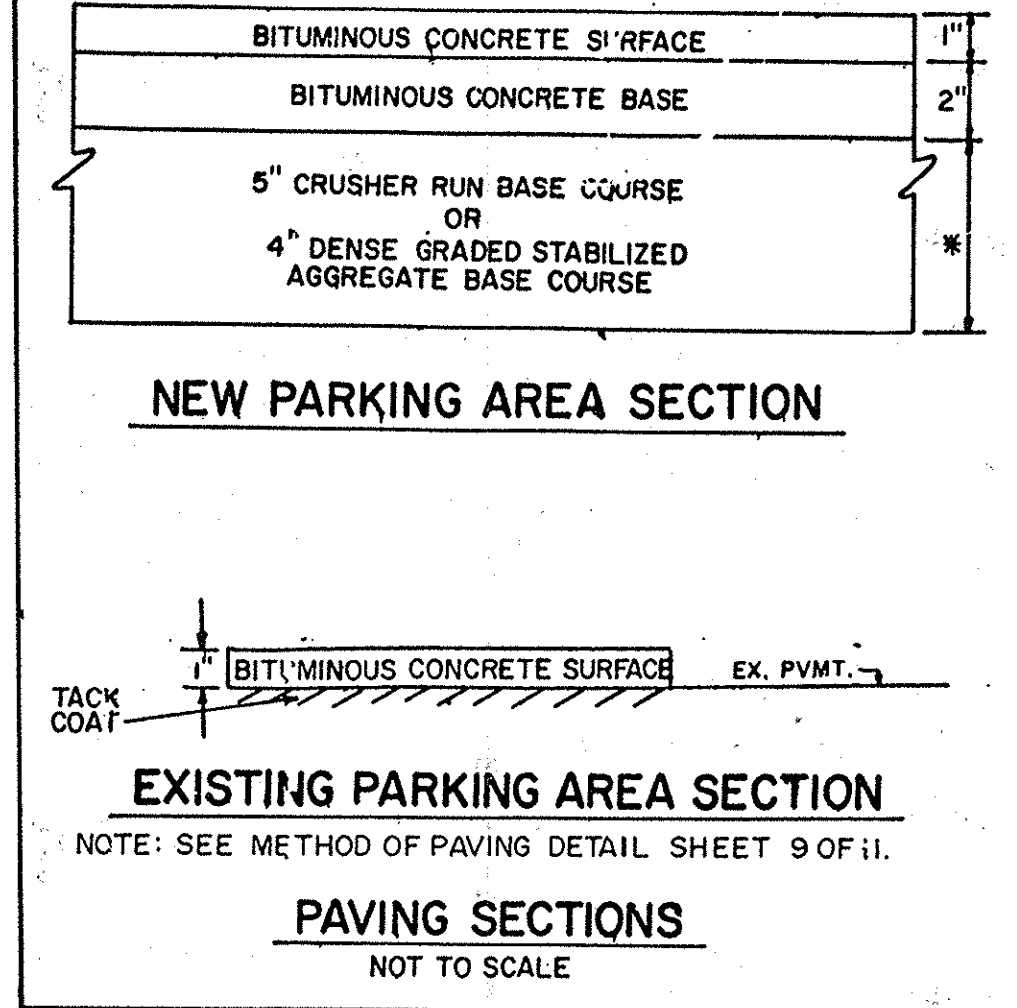
SDP 90.124



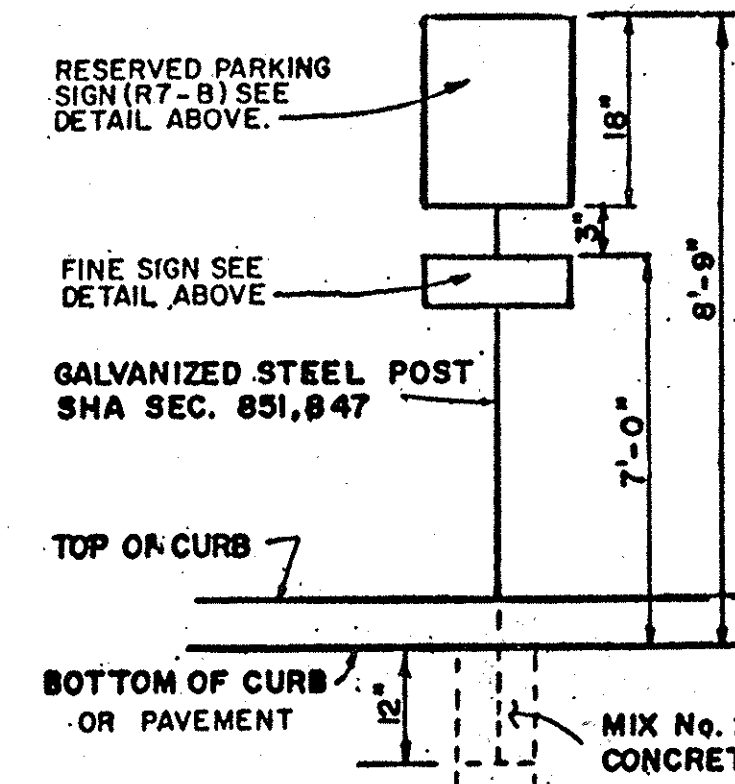
SIDEWALK RAMP
NOT TO SCALE



COMBINATION CURB & GUTTER
NOT TO SCALE

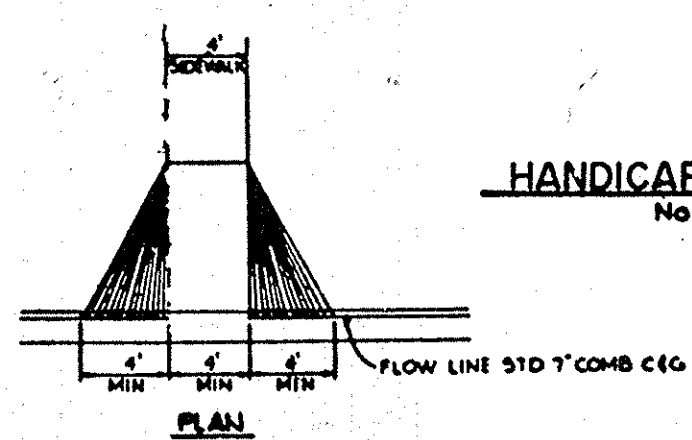


NEW PARKING AREA SECTION
EXISTING PARKING AREA SECTION
PAVING SECTIONS
NOT TO SCALE

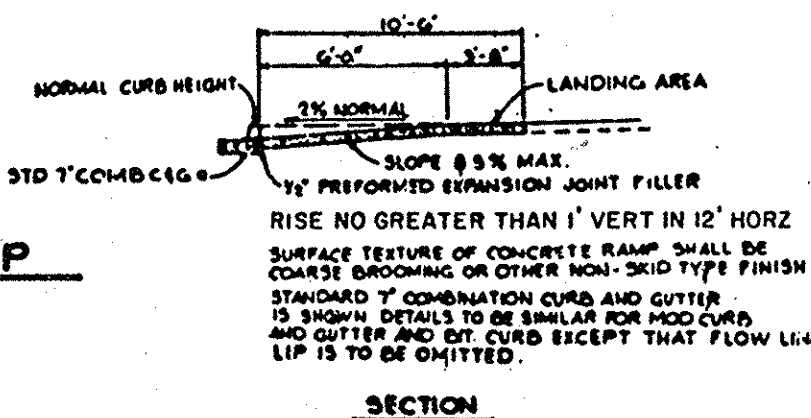


NUTS AND BOLTS ASTM B21L, ALLOY T4, G262 T9 OR 6061 T6
FLAT WASHERS ASTM B 209, ALLOY 2024 T4
LOCK WASHERS ASTM B 211, ALLOY 7075 T6
ELASTIC NUT STOPS ASTM B 211, ALLOY 2017 T4

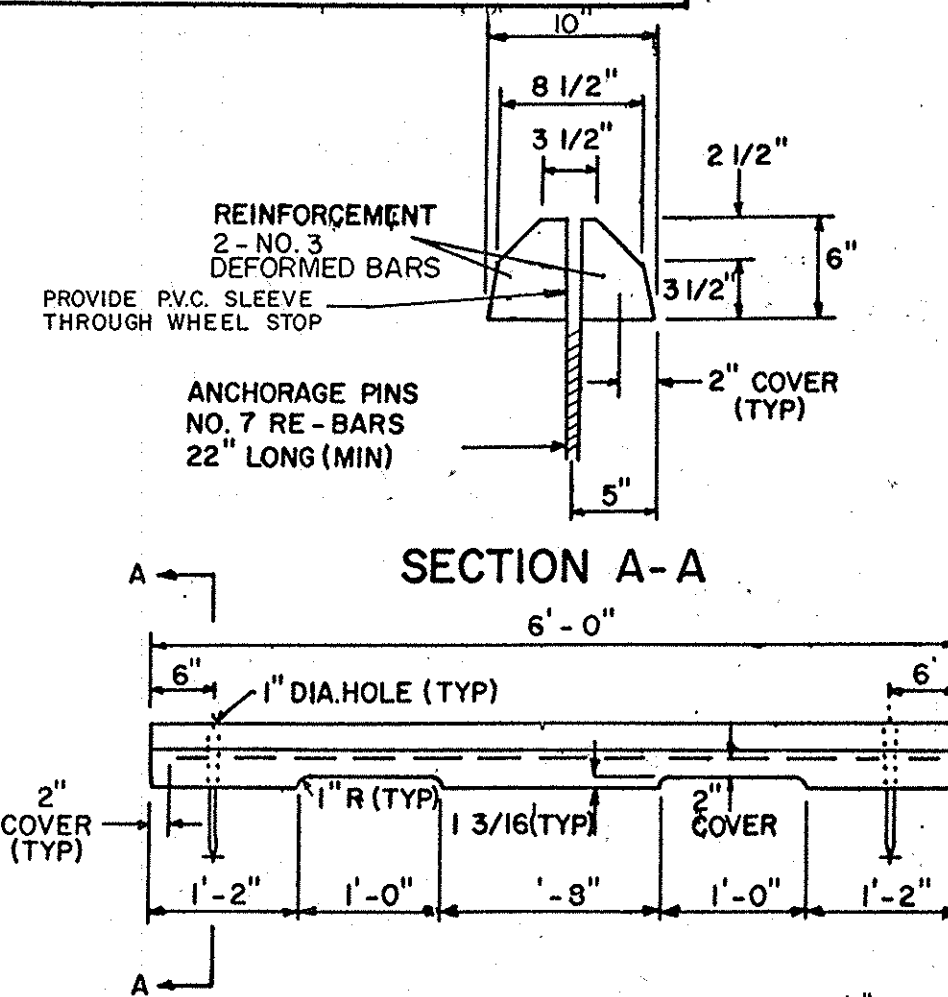
HANDICAP SIGN AND PLACEMENT DETAILS
NOT TO SCALE



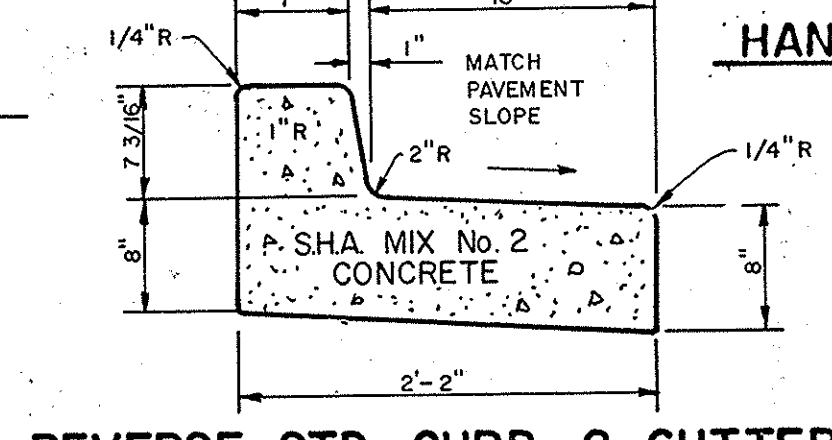
HANDICAP RAMP
NOT TO SCALE



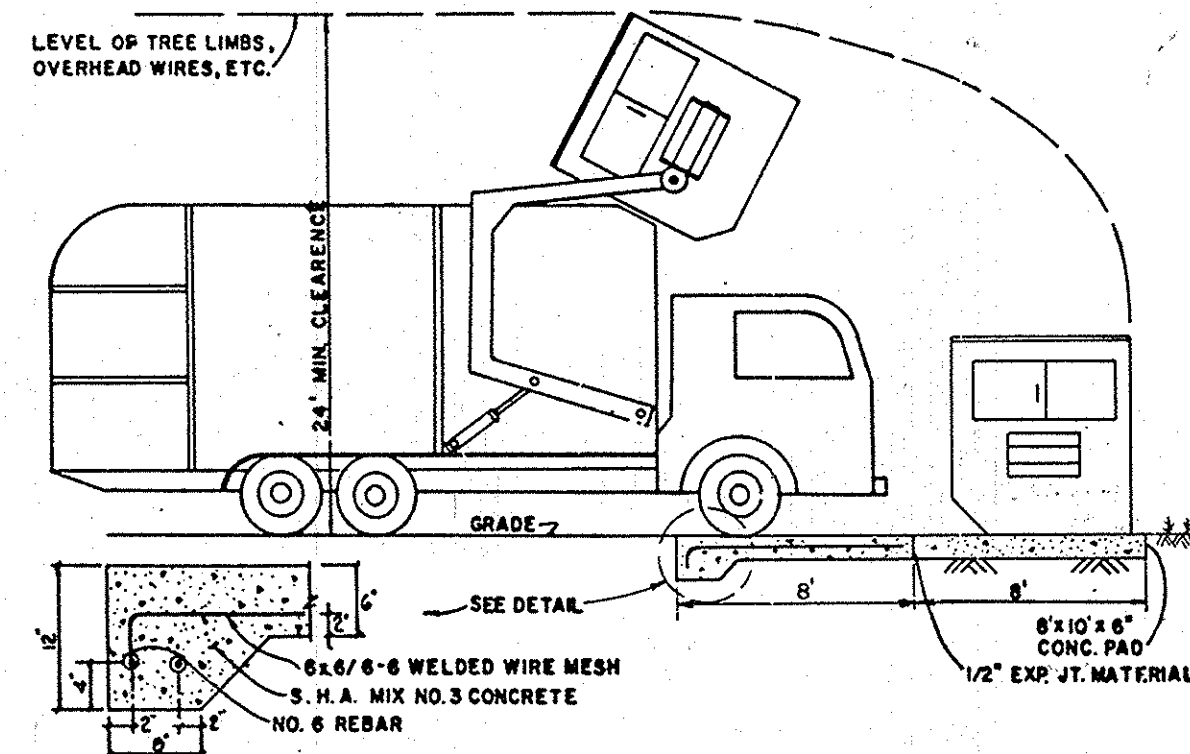
REVERSE MODIFIED CURB & GUTTER
NOT TO SCALE



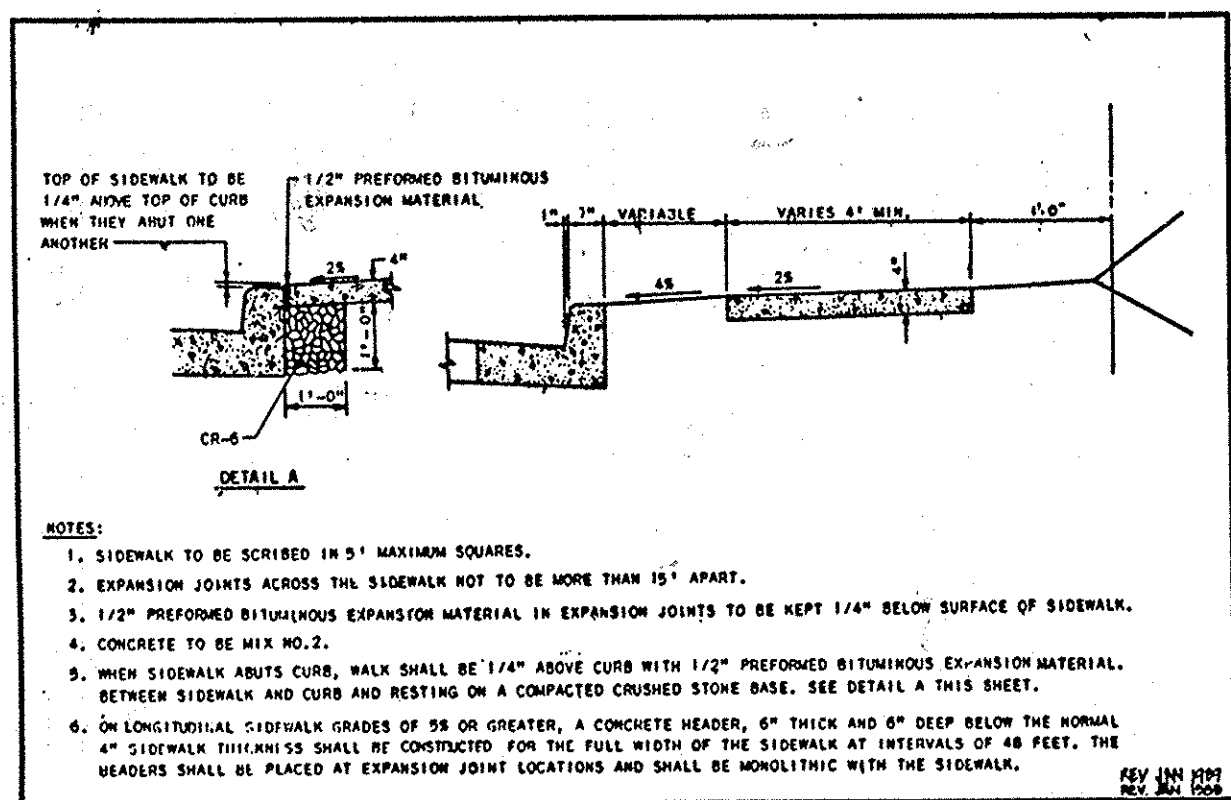
WHEEL STOPS
NOT TO SCALE



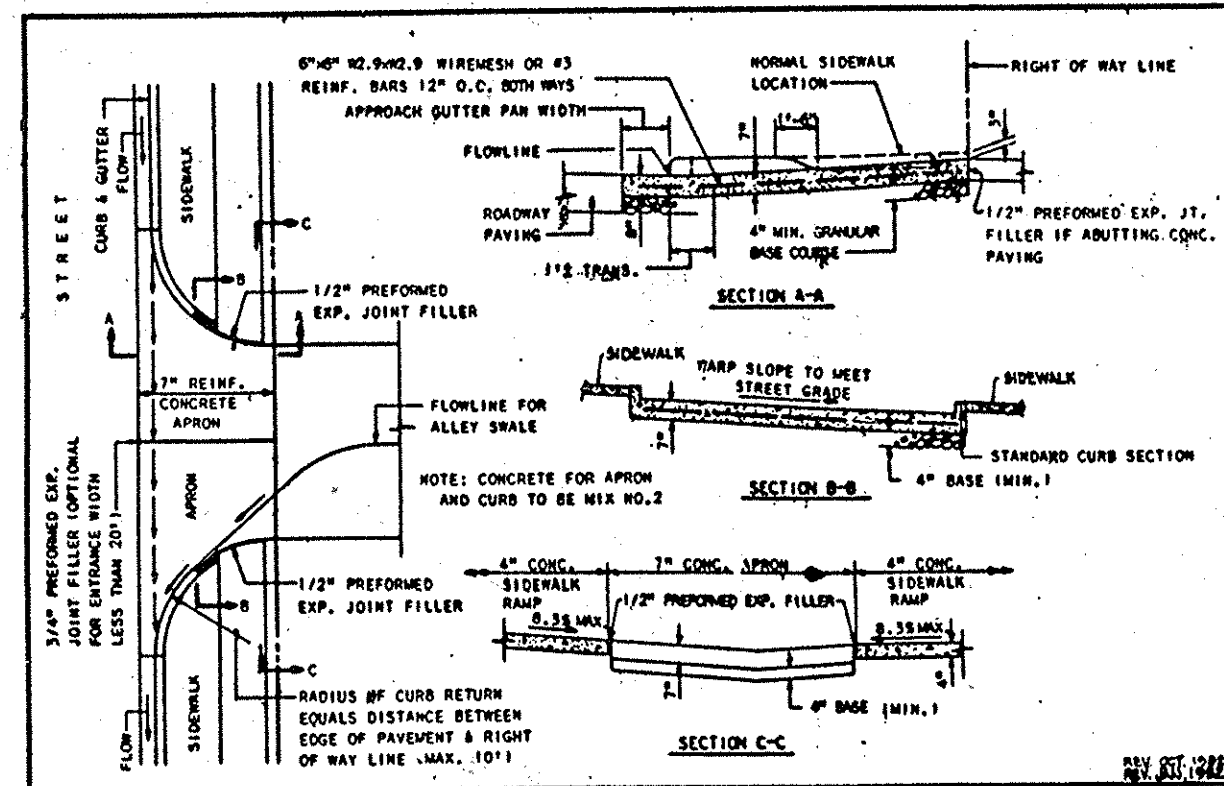
REVERSE STD. CURB & GUTTER
NOT TO SCALE



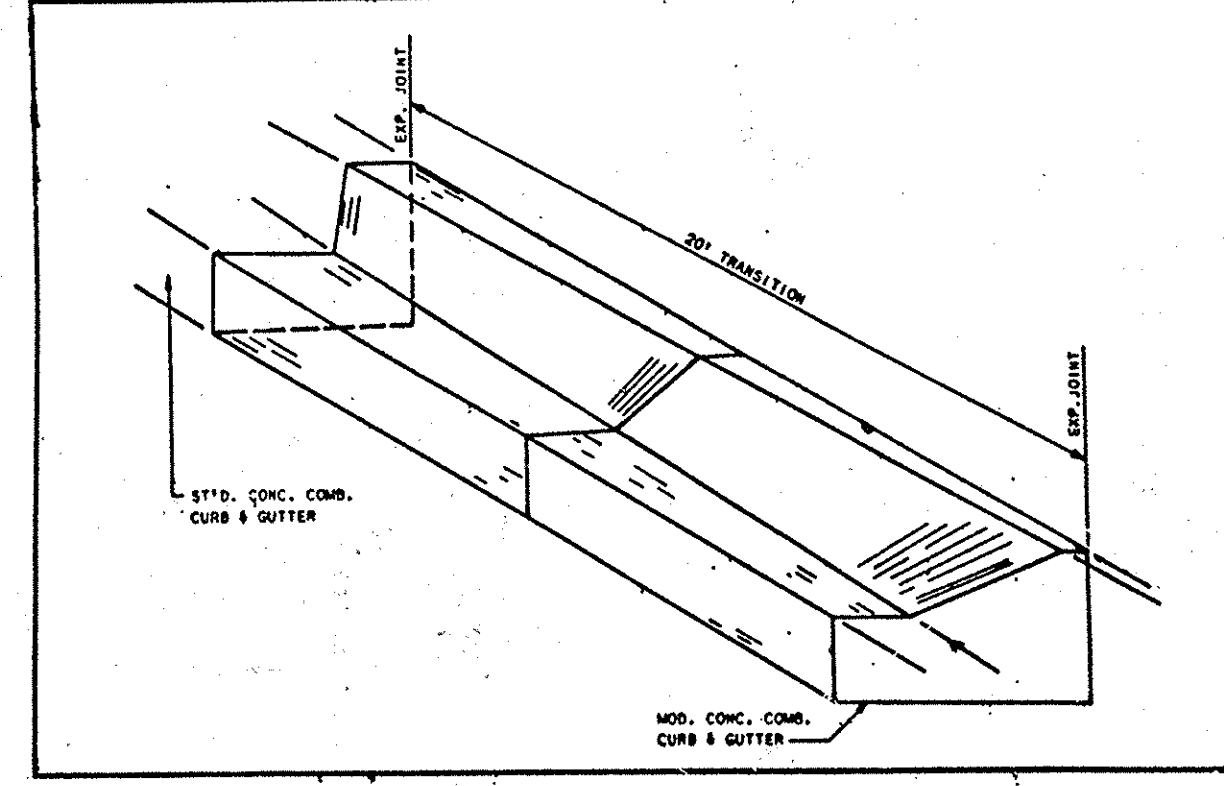
DUMPSTER PAD
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



CONCRETE APRON FOR COMMERCIAL INDUSTRIAL APARTMENT ENTRANCE
NOT TO SCALE



CONCRETE CURB AND GUTTER TRANSITION
NOT TO SCALE

ADDRESS CHART	
LOT NO.	ADDRESS
D6	7060 DEEPAE DRIVE
D11	7080 DEEPAE DRIVE

SUBDIVISION NAME	SECT./AREA	LCT PARCEL NO.
VILLAGE OF OWEN BROWN	2/2	D-6 & D-11
PLAT NO., BLOCK NO.	TAX ZONE	ELECT. DIST.
3337 42-40	NEW TOWN COMMERCIAL	6
WATER CODE	SEWER CODE	CENSUS TR.
E-11	5330300	6061.03

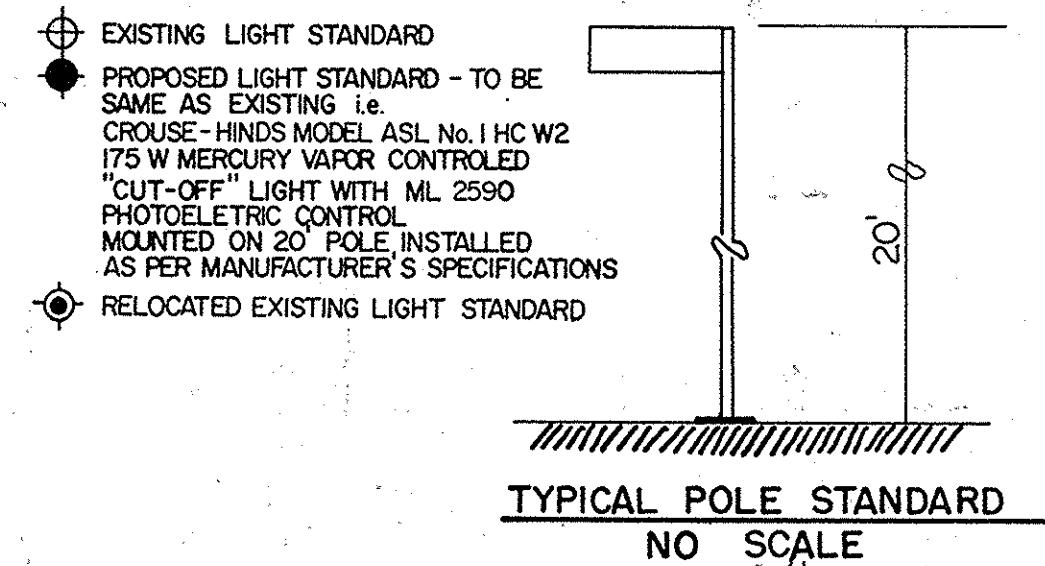
BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Charles S. Canagga 7/23/90
ENGINEER: CHARLES S. CANAGGA

BY THE DEVELOPER:
"I/WE 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I/ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
D. M. [Signature] 7-28-90
DEVELOPER

FOR COUNTY USE ONLY
APPROVED PLANNING
of HOWARD COUNTY
DATE 7-5-90

7/23/90
Date
Professional Engr. No. 10963
Charles S. Canagga

LIGHTING SCHEDULE



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

James M. Adams 7/27/90
S.O. SOIL CONSERVATION SERVICE DATE

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

John R. [Signature] 7/27/90
HOWARD S.C.D. DATE

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

Joyce M. [Signature] 8/10/90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 11.1.90
PLANNING DIRECTOR DATE

[Signature] 10/26/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 10/16/90
Acting DIRECTOR DATE

William C. [Signature] 8/7/90
CHIEF, BUREAU OF ENGINEERING DATE

Date	No.	Revision Description
4-2-90	1	REVISED PER HOWARD CO. COMMENTS
7-5-90	2	REVISED PER HOWARD CO. COMMENTS

OWNER/DEVELOPER (301) 381-0023

COLUMBIA ASSOCIATION
9861 BROKEN LAND
SUITE 300
COLUMBIA, MARYLAND 21046

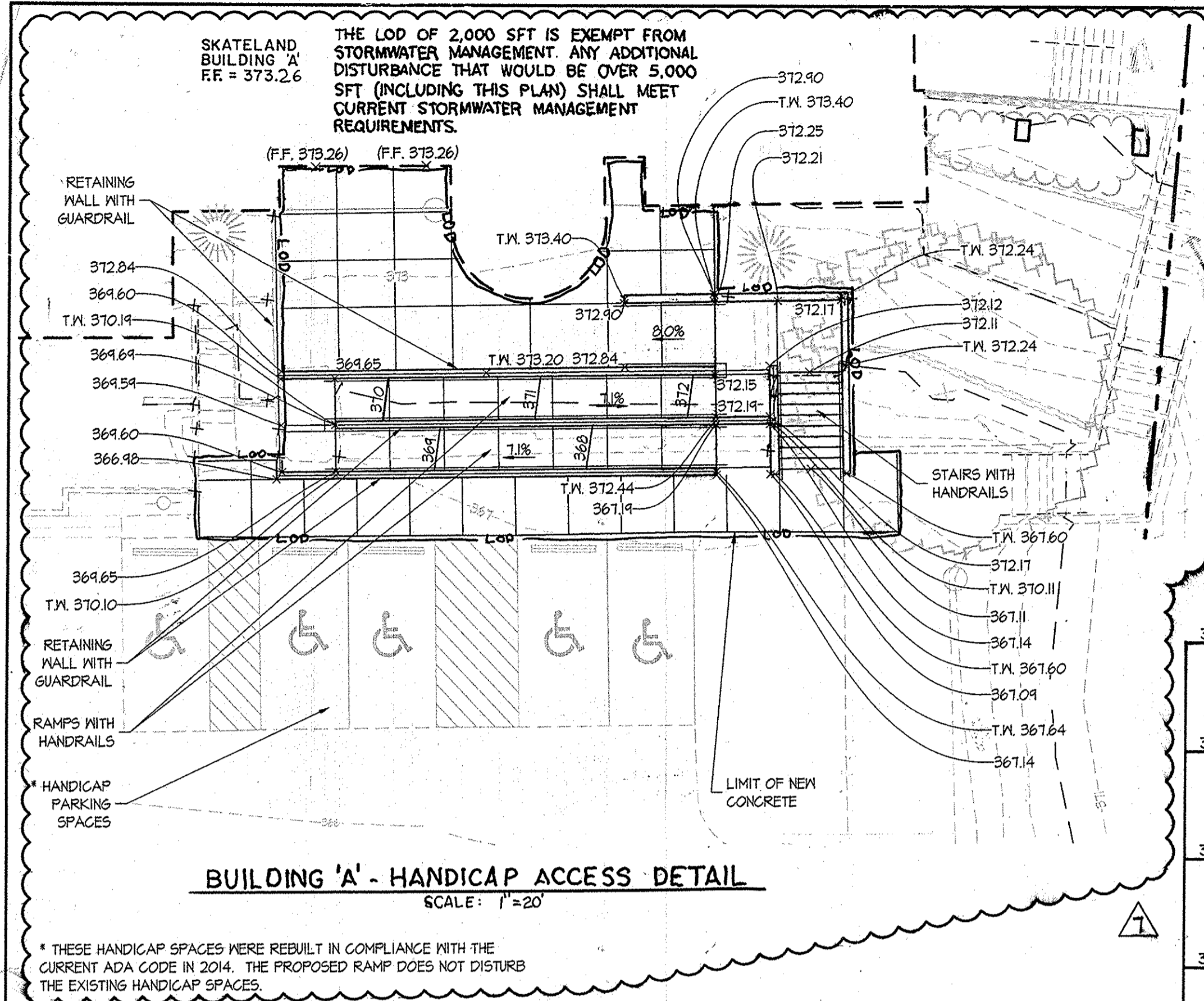
SUPREME COURT/SKATELAND
LOT D-11 LOT D-6

CENTURY ENGINEERING, INC.
(301) 823-6070
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

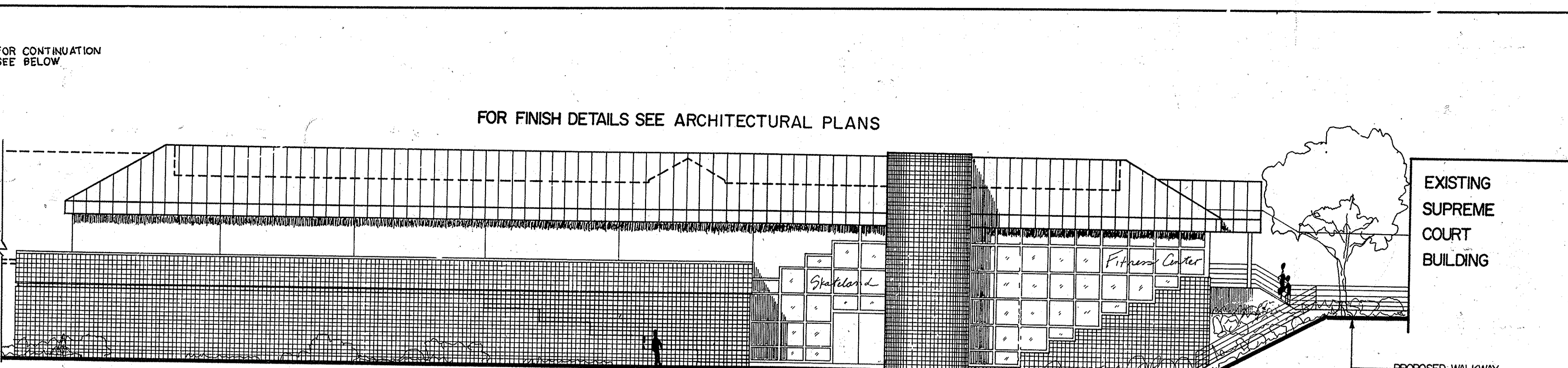
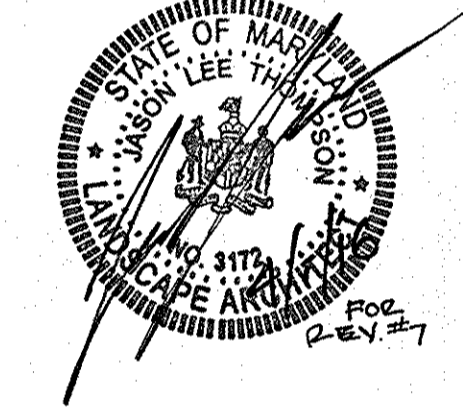
AREA RECORD PLAT REFERENCE NO. 3337, 4247
VILLAGE OF OWEN BROWN
SECTION 2 AREA 2 LOTS D-6 & D-11
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD

TITLE
SITE DEVELOPMENT DETAILS

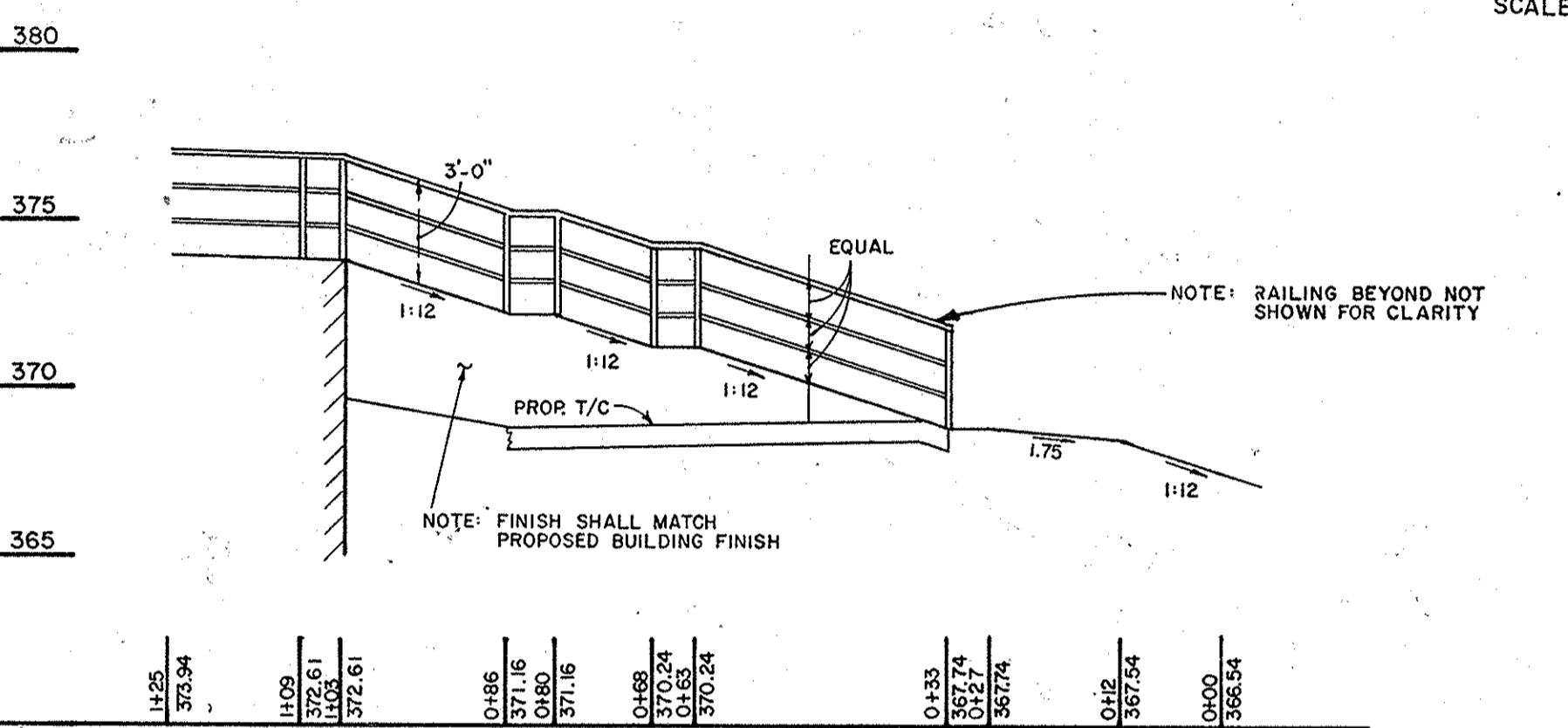
Des By	NAM	Scale	AS SHOWN	Proj No	89-064
Drn By	MAG	Date	DEC. 26, 1989	Drawing No.	
Chk By	DDS	Approved	CSC		9 OF 14



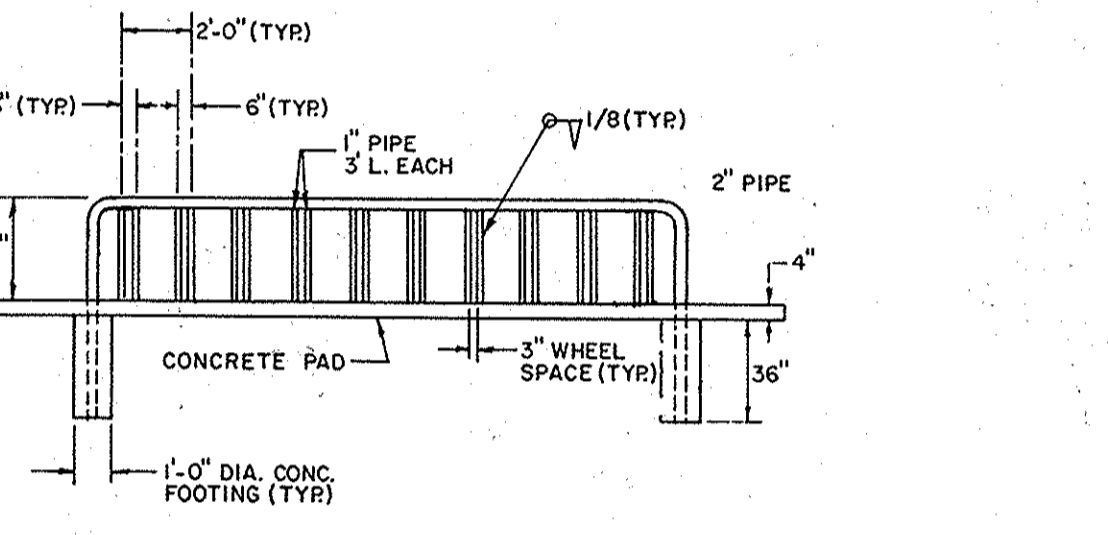
BUILDING 'A' - HANDICAP ACCESS DETAIL
SCALE: 1"=20'



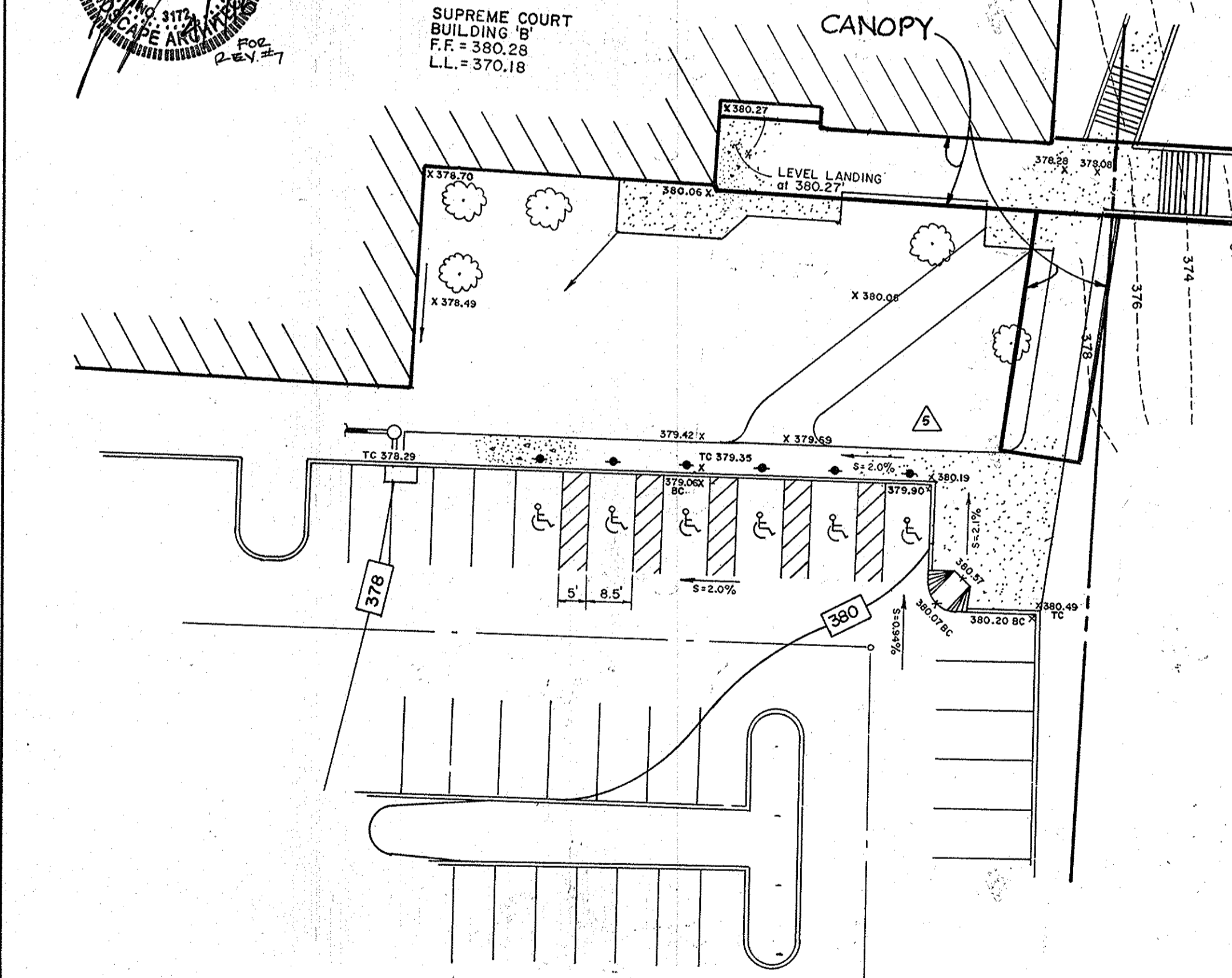
PROPOSED BUILDING 'A' ADDITION - ELEVATION VIEW
SCALE: NTS



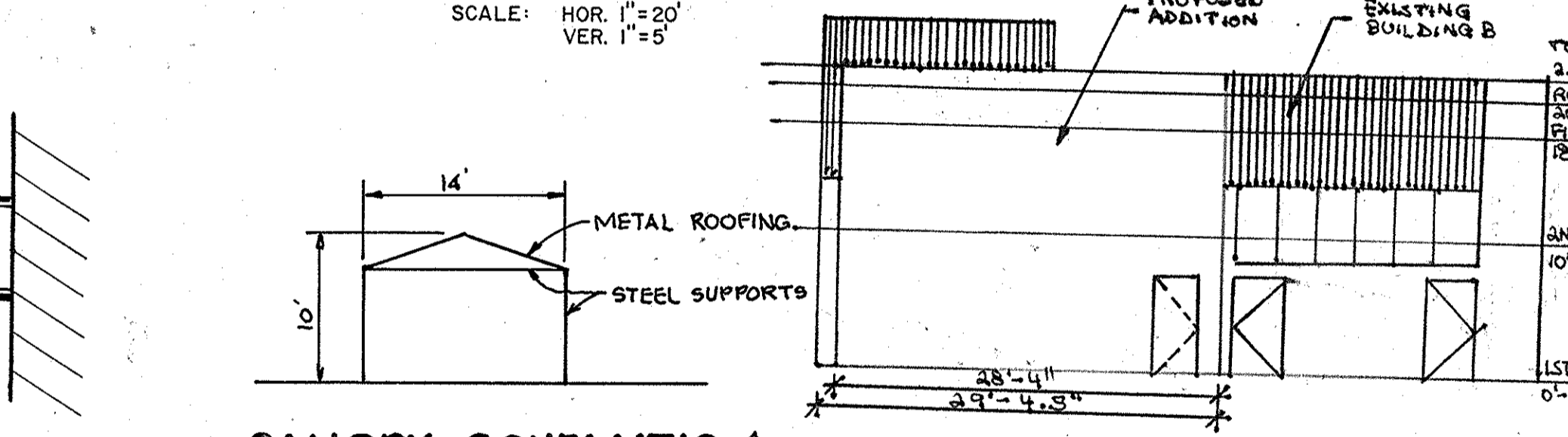
PROFILE C HANDICAP RAMP
SCALE: HOR. 1"=20' VER. 1"=5'



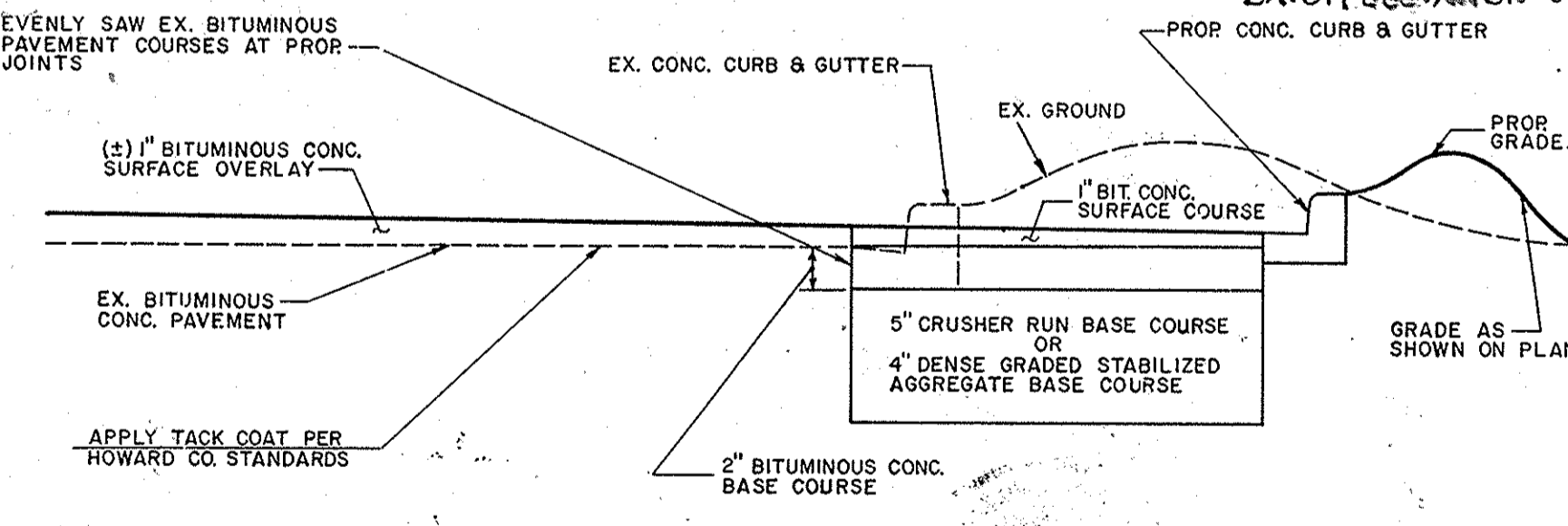
BIKE RACK DETAIL
NOT TO SCALE



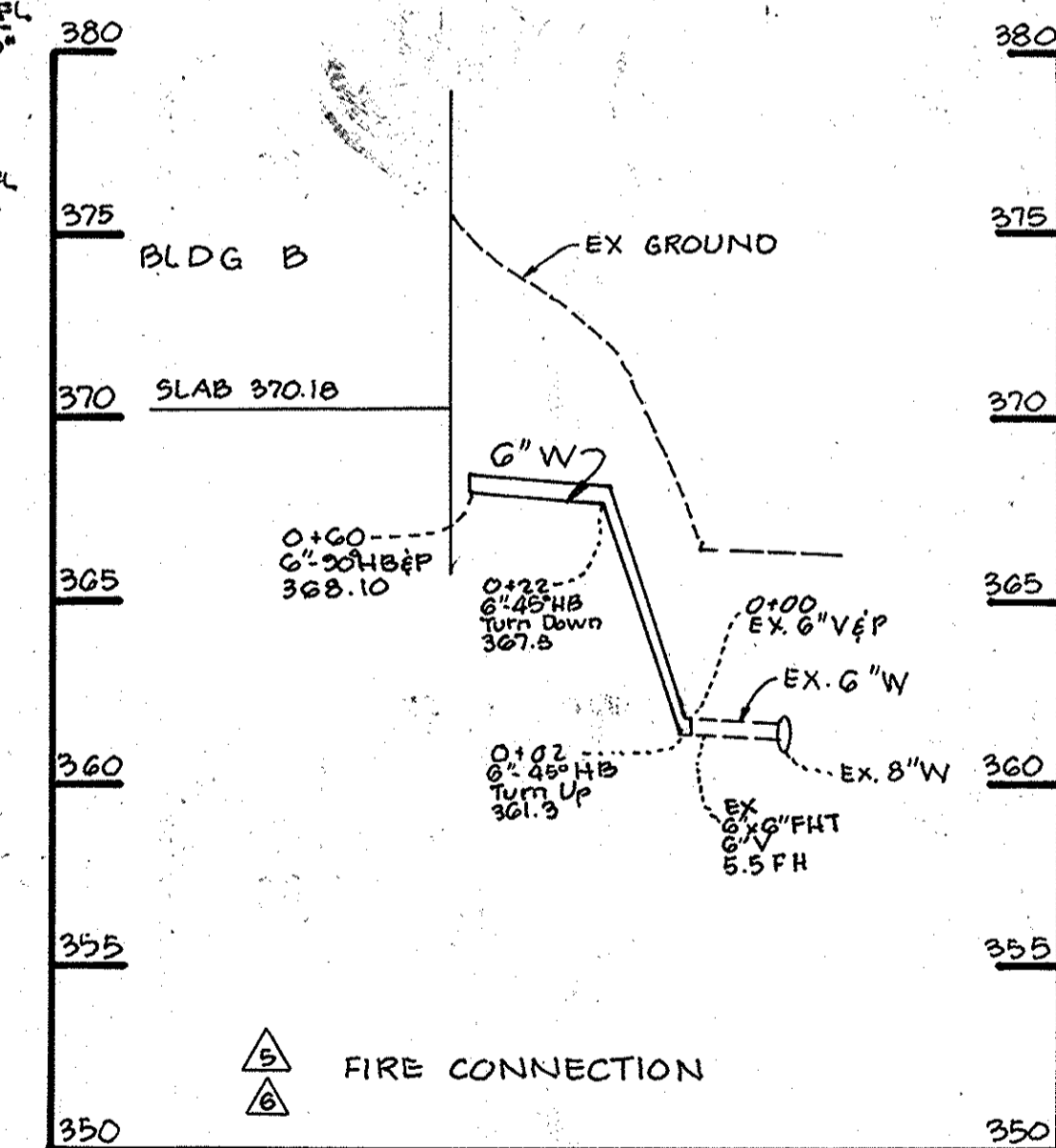
BUILDING 'B' - HANDICAP ACCESS DETAIL
SCALE: 1"=20'



CANOPY SCHEMATIC PROPOSED ADDITION - ELEVATION VIEW WEST
SCALE: 1"=10'



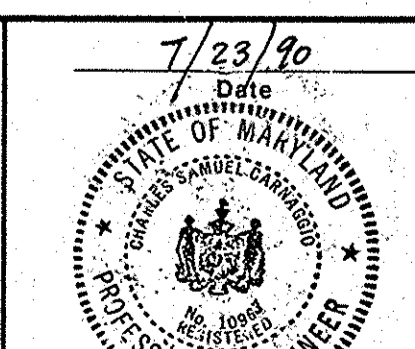
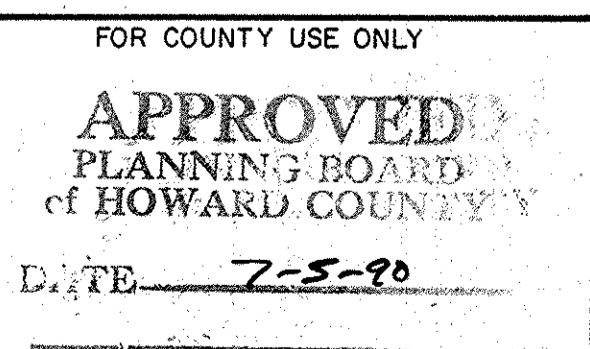
METHOD OF PAVEMENT LAYOUT
SCALE: NTS



PROFILE G'W. CONN @ BLDG 'B'
SCALE: H: 1"=20' V: 1"=5'

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."
Charles A. Camargo
ENGINEER/CHARLES S. CAMARGO
DATE 7/23/90

BY THE DEVELOPER:
"I/WE 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
Dunay
DEVELOPER
DATE 7-23-90



REVIEWED FOR HOWARD COUNTY S.E.D. AND MEETS TECHNICAL REQUIREMENTS
James M. Helm/JKH 7/27/90
S.O.S. SOIL CONSERVATION SERVICE DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
John L. Robertson 7/27/90
HOWARD S.C.D. DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd/ndm 10/23/90
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Charles A. Camargo 7/11/90
PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
March V. DeWright 7/21/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Ronald L. Sepan 10/16/90
Acting DIRECTOR DATE
William C. Riley 8/7/90
CHIEF, BUREAU OF ENGINEERING DATE

4-2-90	1	REVISED PER HOWARD CO. COMMENTS
7-5-90	2	REVISED PER HOWARD CO. COMMENTS
Date	No.	Revision Description
OWNER/DEVELOPER (301) 361-0020		
COLUMBIA ASSOCIATION 9861 BROKEN LAND SUITE 300 COLUMBIA, MARYLAND 21046		

SUPREME COURT/SKATELAND
LOT D-11 LOT D-6

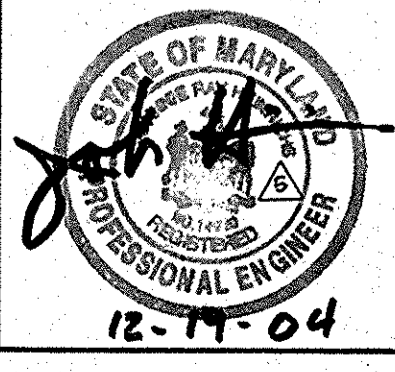
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204
(801) 823-8070

AREA RECORD PLAT REFERENCE NO. 3337, 4240
VILLAGE OF OWEN BROWN
SECTION 2 AREA 2 LOTS D-6 & D-11
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD

Des By	NAM	Scale	AS SHOWN	Proj No	89-064
Drn By	FLP	Date	DEC. 26, 1989	Drawing No.	10 OF 14
Chk By	DDS	Approved	CSC		

ADDRESS CHART			
LOT NO.	ADDRESS	LOT NO.	ADDRESS
D6	7060 DEEPEGE DRIVE		
D-11	7080 DEEPEGE DRIVE		

4-1-16	REUSE BLDG 'A' ACCESS TOTAL SHEETS	
11-10-04	REVISED G" FIRE CONN. LOCATION	
10-20-04	ADDED CANOPY BETWEEN BLDG'S A & B, ADDED G" FIRE CONN., AND UPDATED EX. CONDITIONS	
NO.	DATE	REVISION
SUBDIVISION NAME		SECT./AREA
VILLAGE OF OWEN BROWN		2/2
LOT PARCEL NO.		D-6 & D-11
TAX. ZONE		ELECT. DIST.
NEW TOWN COMMERCIAL		42 MAP
CENSUS TR		6061.03
WATER CODE		SEWER CODE
E-11		53303006



PLANT LIST - SITE PLANTING PLAN

NO	SYM	QTY	PLANT NAME	SIZE	ROOTS	REMARKS	ADDITION	RELOCATE
1	⊕	12	ACER RUBRUM 12" OBER GLORY RED OCKER GLORY MAPLE	2 1/2" CAL 12'4" HT	B&B	FULL HEAD	ADD 1 MAPLE	2
2	⊗	12	CRATAEGUS VIRID. WINTER KING WINTER KING HAW-DORN	2 1/2" CAL 8'0" HT	B&B	FULL HEAD		
3	⊙	6	CORNUS FLORIDA FLOWERY TWIG	2 1/2" CAL 8'0" HT	B&B	FULL HEAD		
4	⊗	50	FINIS TENDRUS WITE WINE	2 1/2" CAL 6'8" HT	B&B	FULL HEAD	ADD 14 PINES	
5	⊙	42	PLATANUS SPERANZA AMERICAN Sycamore	2 1/2" CAL 2 1/2" HT	B&B	FULL HEAD	ADD 2 SYCAMORE	4
6	⊗	40	TAXUS M HICKSI HICK'S YEW	30" HT	B&B	TRIM INP HEDGE	PLANT 36" OC.	
7	⊗		EX ST. TREE TO BE MAINT					
8	⊗		EX ST. TREE TO BE REMOVED					

LANDSCAPE REQUIREMENTS
(AS REQUIRED BY HOWARD RESEARCH & DEVELOPMENT CORP)

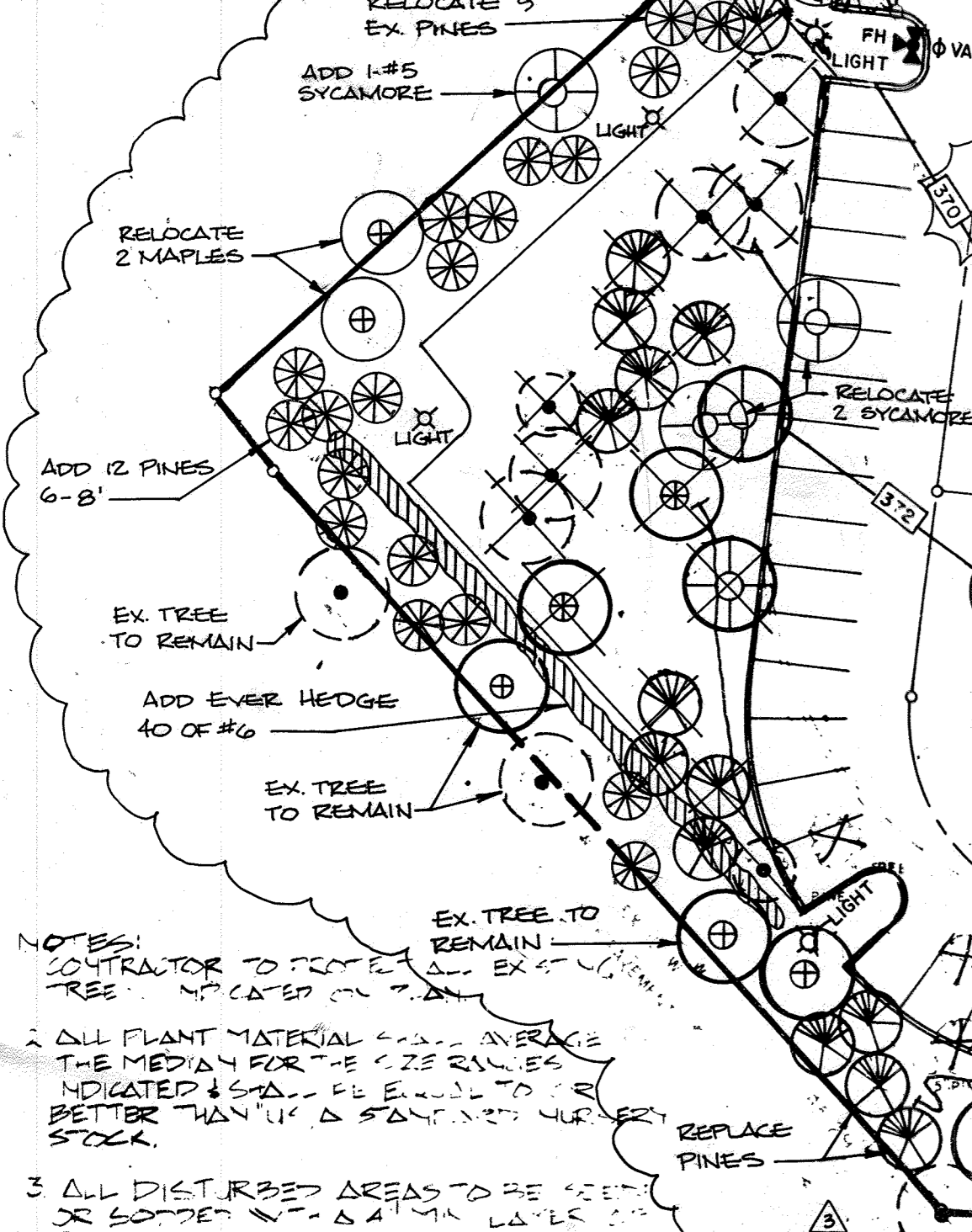
- RES: 5.44 AC
 - TREES PER ACROSS ACRE: 40 WOODS 20 TREES
 - NUMBER OF TREES REQUIRED: 40
 - NUMBER OF EX ST. TREES TO BE SAVED: 10
- | PLANT NAME | QTY | HT | HT COUNT |
|-------------------|-----|------|----------|
| ACER RUBRUM | 12 | 12.4 | 148.8 |
| CRATAEGUS VIRID. | 12 | 8.0 | 96.0 |
| CORNUS FLORIDA | 6 | 8.0 | 48.0 |
| FINIS TENDRUS | 50 | 6.8 | 340.0 |
| PLATANUS SPERANZA | 42 | 2.5 | 105.0 |
| TAXUS M HICKSI | 40 | 30 | 1200 |

OPERATION AND MAINTENANCE SCHEDULE FOR RAINGARDEN AREA

ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER AND SOIL IS LIMITED TO CORRECTING ANY AREA OF EROSION AND WASH OUT. MULCH REPLACEMENT AND WASH OUT SHALL BE DONE IN THE SPRING. PLANT AND INSECT INSPECTION AND MATERIALS WILL ADDRESS DEAD PLANTS AND INSECTS.

INSPECTION OF PLANTING SHALL BE DONE YEARLY IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DECAYING VEGETATION, CONSULTATION WITH LANDSCAPE ARCHITECT FOR TREATMENT, TRIMMING OF SHRUBS AND REPLACEMENT OF DEFICIENT PLANTS.

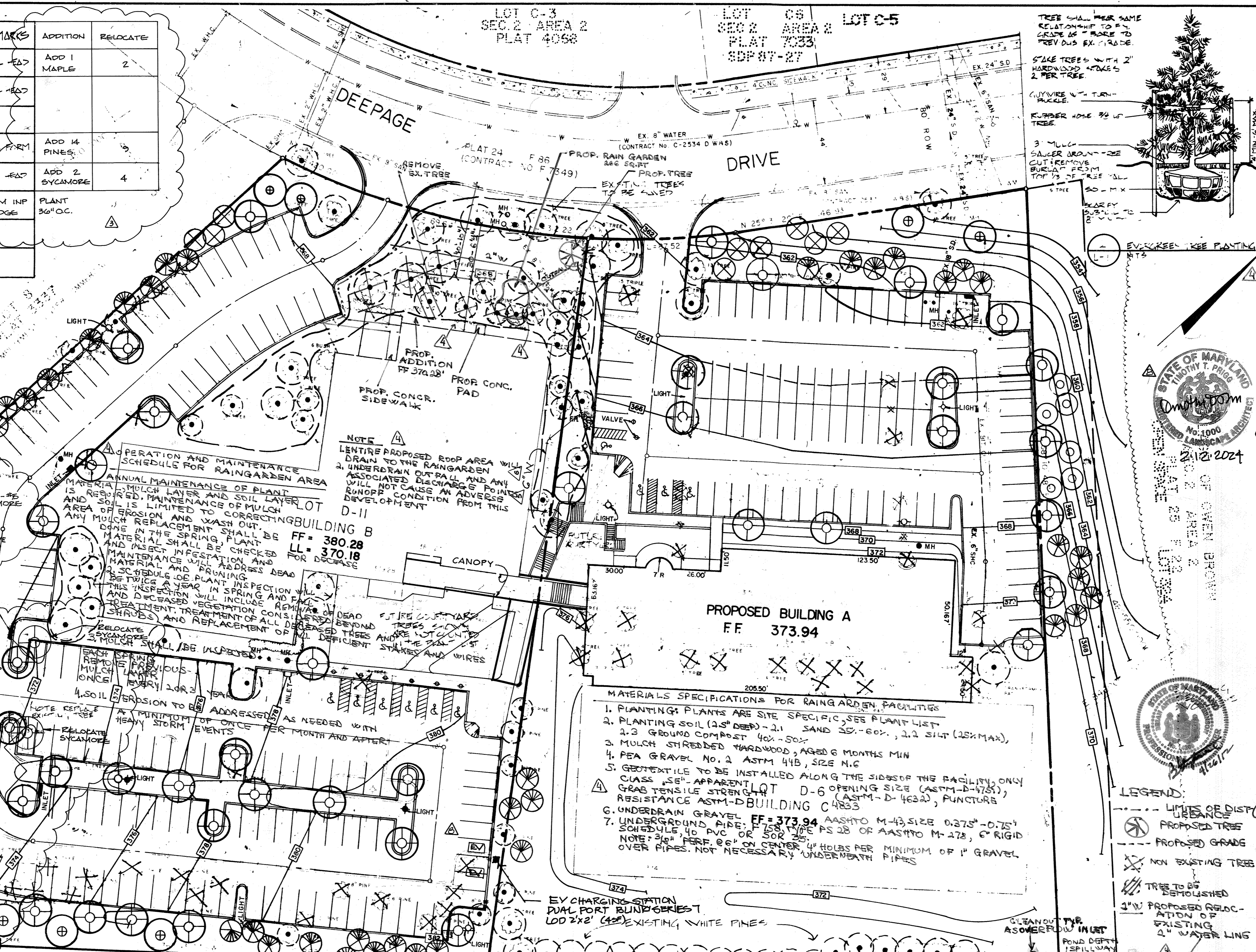
SOIL EROSION TO BE ADDRESSED AS NEEDED WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.



- 1. CONTRACTOR TO MAINTAIN EXISTING TREES UNLESS NOTED OTHERWISE.
- 2. ALL PLANT MATERIAL SHALL BE AVERAGE THE MEDIUM FOR THE SIZE RANGES INDICATED. ALL PLANTS TO BE BETTER THAN 1/4" D. S. AND 1/4" D. STOCK.
- 3. ALL DISTURBED AREAS TO BE SEED & SOPEL W/ A MULCH LAYER TO TOP SO.
- 4. ALL PLANTS TO BE LOCATED 4 FEET FROM LANDSCAPE AS NOTED ON OWNER'S REPRESENTATIVE.
- 5. CONTRACTOR SHALL CALL 511 TO GET A MINIMUM OF 24 HOURS ADVANCE OF CONSTRUCTION PLANTING.
- 6. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO VERIFY REPRESENTATIVE 48 HRS BEFORE PLANTING.
- 7. THIS PLAN IS FOR PLANTING ONLY.
- 8. ALL NEW PLANTS TO BE PRESERVE EXISTING TREES TO BE MAINT.

ADDRESS CHART

LOT NO.	ADDRESS
D6	7060 DEEPAGE DRIVE
D11	7080 DEEPAGE DRIVE



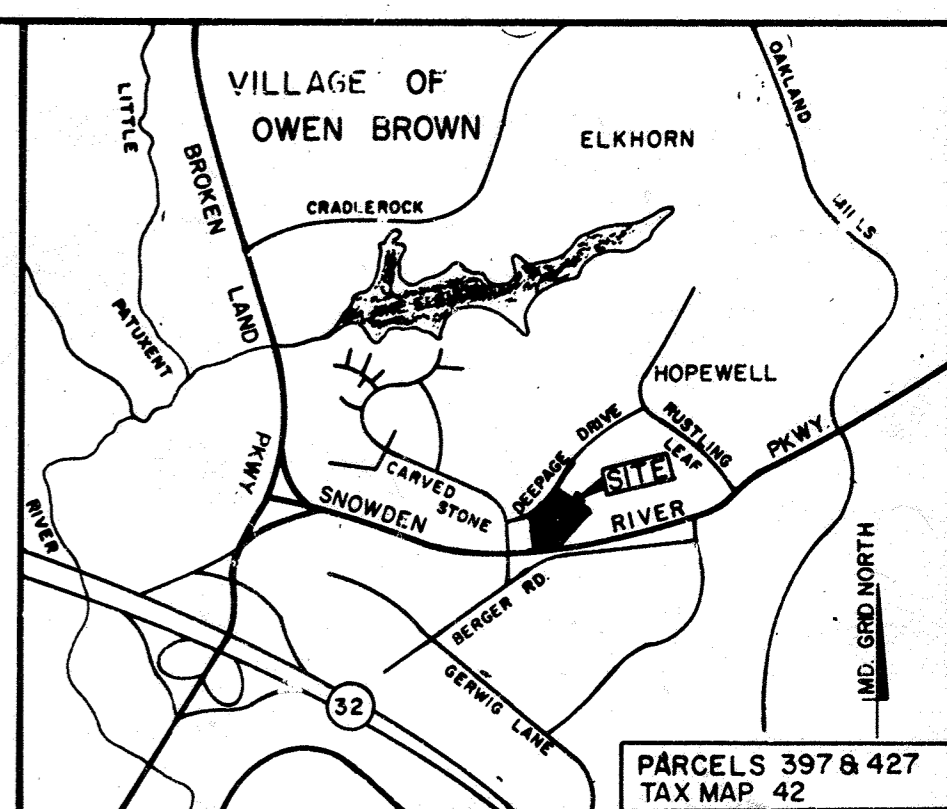
RAINGARDEN FACILITY PLANT LIST

BOTANICAL NAME	COMMON NAME	QUANTITY	SPACING
EUPATORIUM FERRUGINEA	ROSE PINE WOOD	1	SEE NOTE 1
VIOLINUM DENICATUM	ARROW WOOD	1	SEE NOTE 1
DRYOPTERIS ATRATA	SHAGGY SHIELD FERN	1	SEE NOTE 1
MISCANTHUS GRACIELLA	MAIDEN GRASS	1	SEE NOTE 1
POSTICA OVINA	HARD FESCUE GRASS	1	SEE NOTE 1

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."

BY THE DEVELOPER:
"I/WE 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I/ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 7-5-90



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

James M. Helm / JMH 7/27/90
U.S. SOIL CONSERVATION SERVICE, DATE

John P. Robertson / JPR 7/27/90
HOWARD S.C.D. DATE

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

Joyce M. Borland / JMB 10/23/90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

William C. Riley / WCR 8/3/90
CHIEF, BUREAU OF ENGINEERING DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William C. Riley / WCR 10/16/90
DIRECTOR DATE

SUPREME COURT/SKATELAND
D-11 D-6

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

REVISIONS

Date	No	Revision Description
4-2-90	1	REVISED PER HOWARD CO COMMENTS
7-5-90	2	REVISED PER HOWARD CO COMMENTS

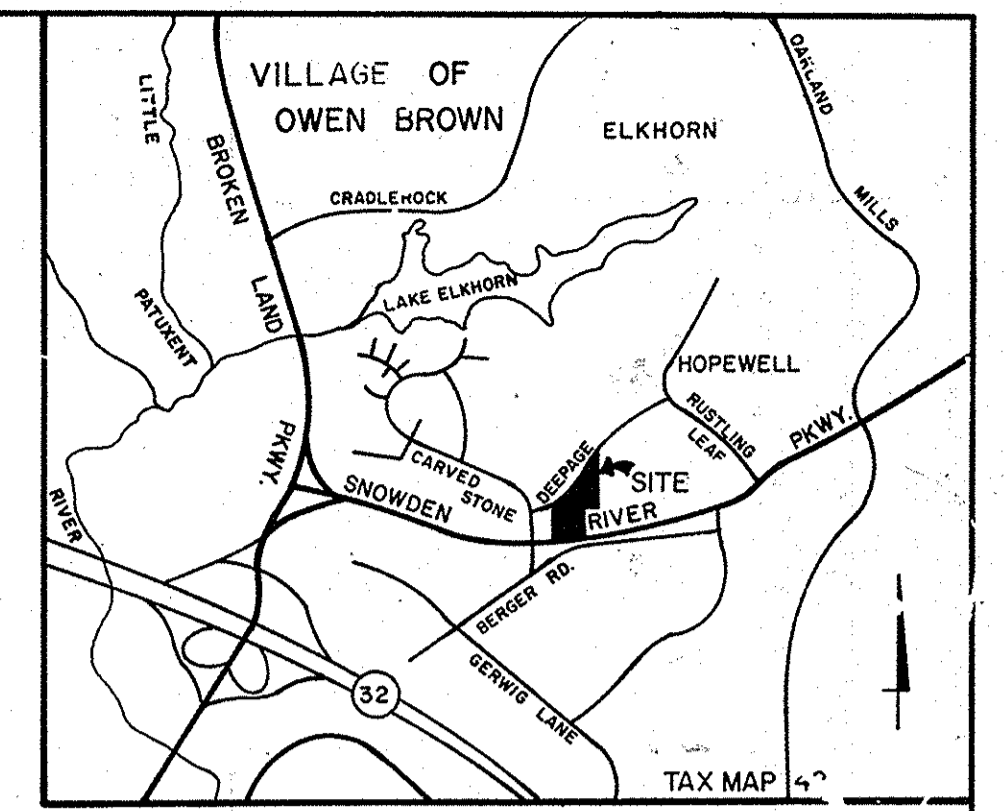
OWNER/DEVELOPER: (301) 381-0020
COLUMBIA ASSOCIATION
9861 BROKEN LAND
SUITE 300
COLUMBIA, MARYLAND 21046

AREA: RECORD PLAT REFERENCE NO. 3337, 4240
VILLAGE OF OWEN BROWN
SECTION 2, AREA 2, PARCELS D6 & D11
ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD

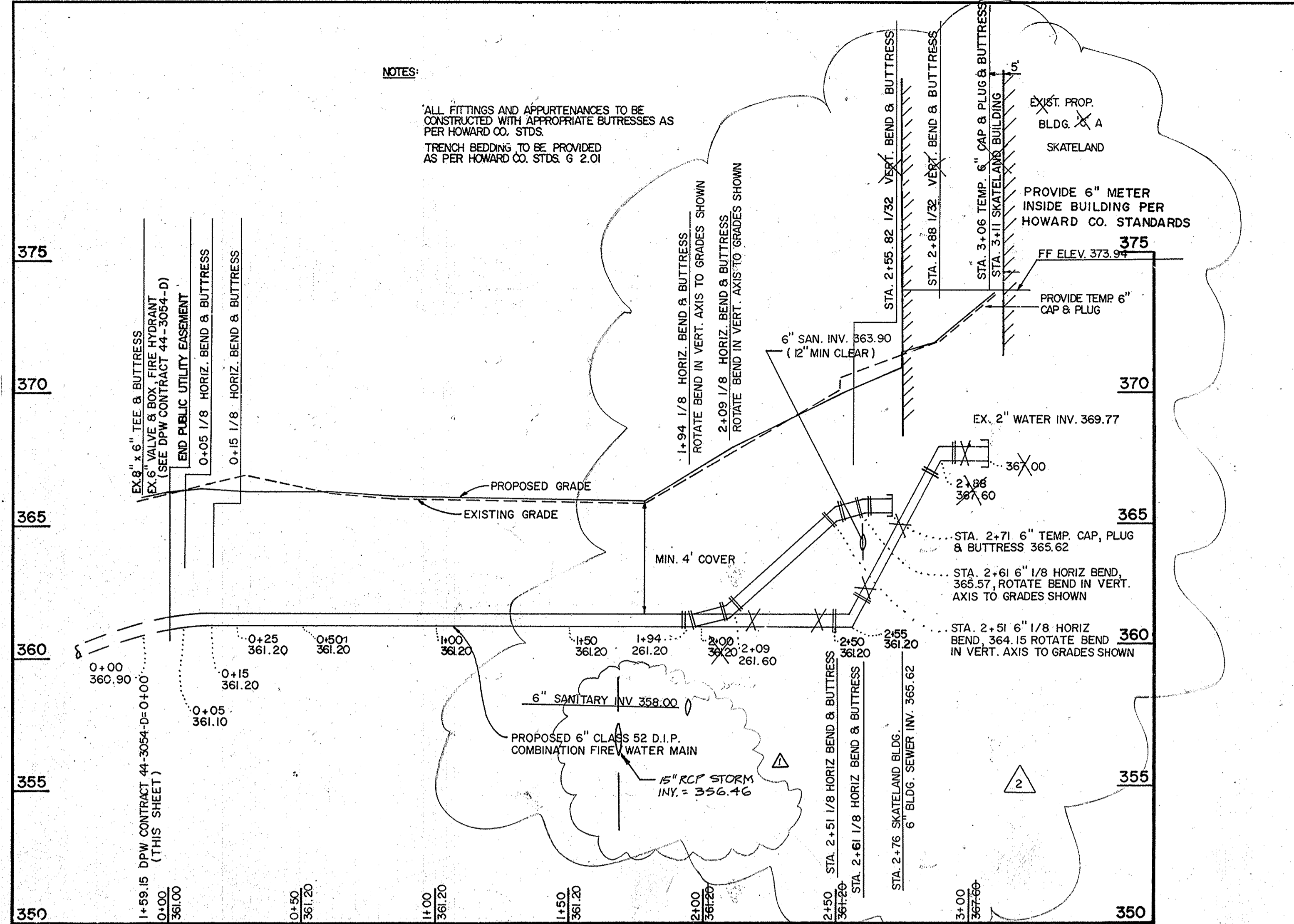
TITLE: LANDSCAPING PLAN

Des By	Scale	Proj No
NAM	1" = 30'	89-064
Drn By	Date	Drawing No
ETJ	DEC. 26, 1989	11 OF 14
Chk By	Approved	Scale
DDS	CSC	1" = 30'

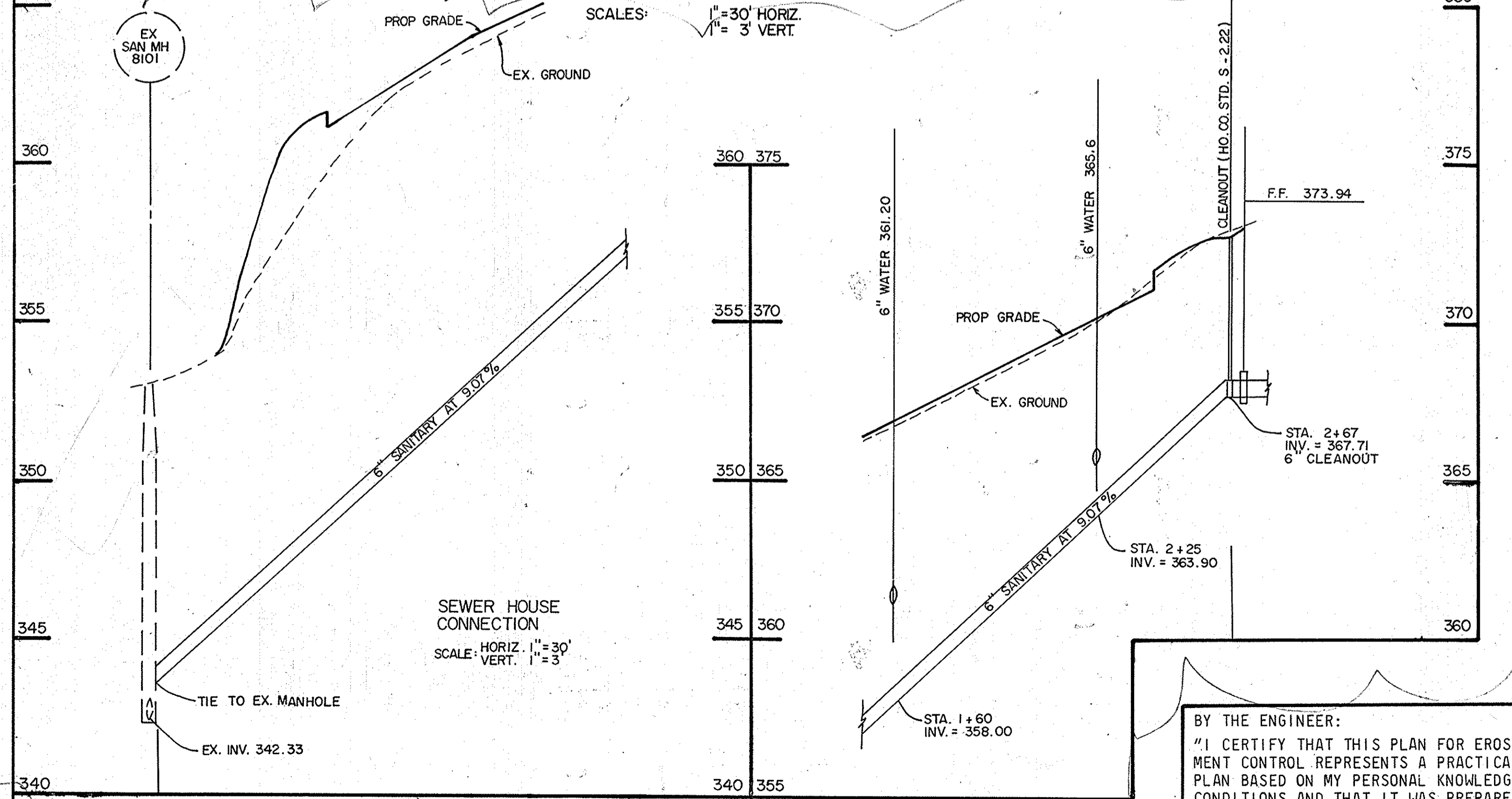
NOTES:
 ALL FITTINGS AND APPURTENANCES TO BE
 CONSTRUCTED WITH APPROPRIATE BUTTRESSES AS
 PER HOWARD CO. STDS.
 TRENCH BEDDING TO BE PROVIDED
 AS PER HOWARD CO. STDS. § 2.01



VICINITY MAP
 SCALE: 1" = 200'



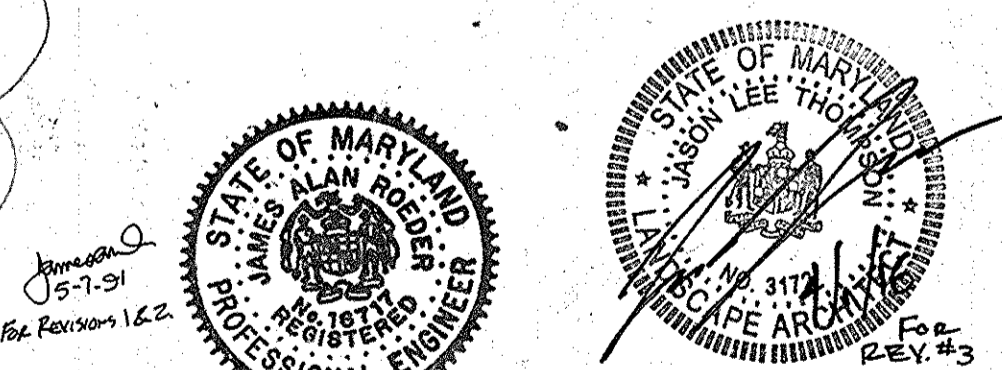
WATER MAIN PROFILE
 SCALES: 1" = 30' HORIZ.
 1" = 3' VERT.



POOL BACKWASH AND ROOFLEADER DRAIN PROFILE
 SCALES: 1" = 30' HORIZ.
 1" = 3' VERT.

PROCEDURE FOR ABANDONMENT OF EXISTING 6" WATER HOUSE CONNECTION

1. CUT THROUGH TO DEEPER LEVEL AND EXCAVATE TO LOCATE 6" WHIC COORDINATE PROBABLY AT 6" WATER MAIN
2. CLOSE CONNECTION STOP AND UNHOOK 2" WHIC. PLUG END OF 2" WHIC WITH CONCRETE, MIN. 12" LENGTH OF PLUG
3. BACKFILL AND COMPACT PER HO. CO. STD. SPECS.
4. PATCH PAVEMENT PER HO. CO. STD. DRAWING #6-4.01
5. EXCAVATE AND REMOVE EX. WATER METER, SEVERING 2" WHIC PIPE INTO AND CUT OFF WATER. PLUG ENDS OF BOTH PIPES WITH 12" LENGTH OF CONCRETE. METER UTILITIES METER SECTION
6. BACKFILL, COMPACT, AND STABILIZE



NO.	REVISION	DATE	INITIALS
1	ADD 6" WHIC NOTES REVERSE WATER MAINS AND SEWER MAIN	7/23/90	JZ
2	LOWER POOL BACKWASH DISCHARGE PIPE @ M.H.	7/23/90	JR

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 7-5-90

DATE 7/23/90
 PROFESSIONAL ENGINEER
 Charles S. Camargo
 Professional Engr. No. 19963

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."
 Charles S. Camargo
 ENGINEER/CHARLES S. CAMARGO
 DATE 7/23/90

BY THE DEVELOPER:
 "I/WE 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT." I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE 7-24-90
 DEVELOPER DATE

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

James M. Adam / JMA
 U.S. CONSERVATION SERVICE
 DATE 7/27/90

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

John K. Robison / JKR
 HOWARD S.C.D.
 DATE 7/27/90

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

Joyce M. Bond / JMB
 COUNTY HEALTH OFFICER
 DATE 10/23/90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DATE 11.1.90

David J. Day / DJD
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 11/1/90

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

Howard County Department of Public Works
 Acting Director
 DATE 10/16/90

William O. Riley / WOR
 CHIEF, BUREAU OF ENGINEERING
 DATE 8/7/90

Date	No	Revision Description
4-2-90	1	REVISED PER HOWARD CO. COMMENTS
7-5-90	2	REVISED PER HOWARD CO. COMMENTS

OWNER/DEVELOPER (301) 361-0020
 COLUMBIA ASSOCIATION
 9861 BROKEN LAND SUITE 300
 COLUMBIA, MARYLAND 21046

SUPREME COURT/SKATELAND

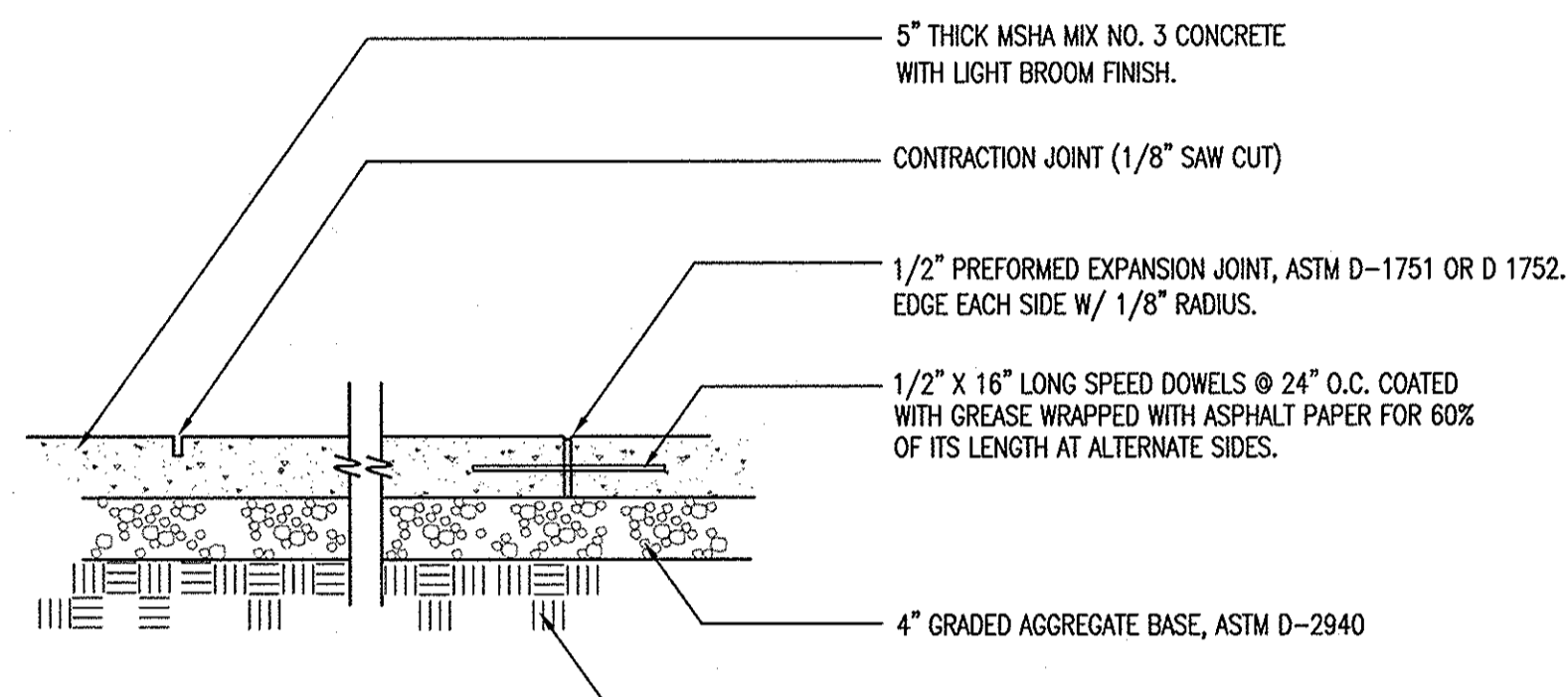
CENTURY ENGINEERING, INC.
 (301) 823-8070
 CONSULTING ENGINEERS • PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21204

AREA RECORD PLAT REFERENCE NO.
 VILLAGE OF OWEN BROWN
 SECTION 2 AREA 3 PARCELS D7 & D8
 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MD.

UTILITY PROFILES

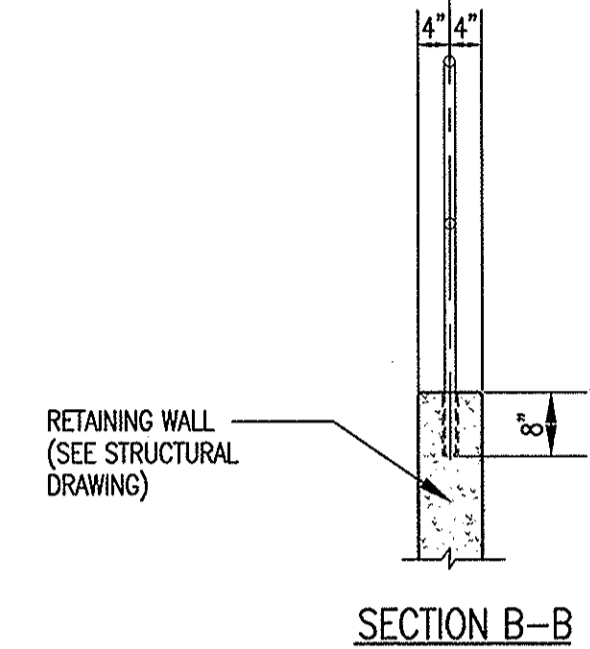
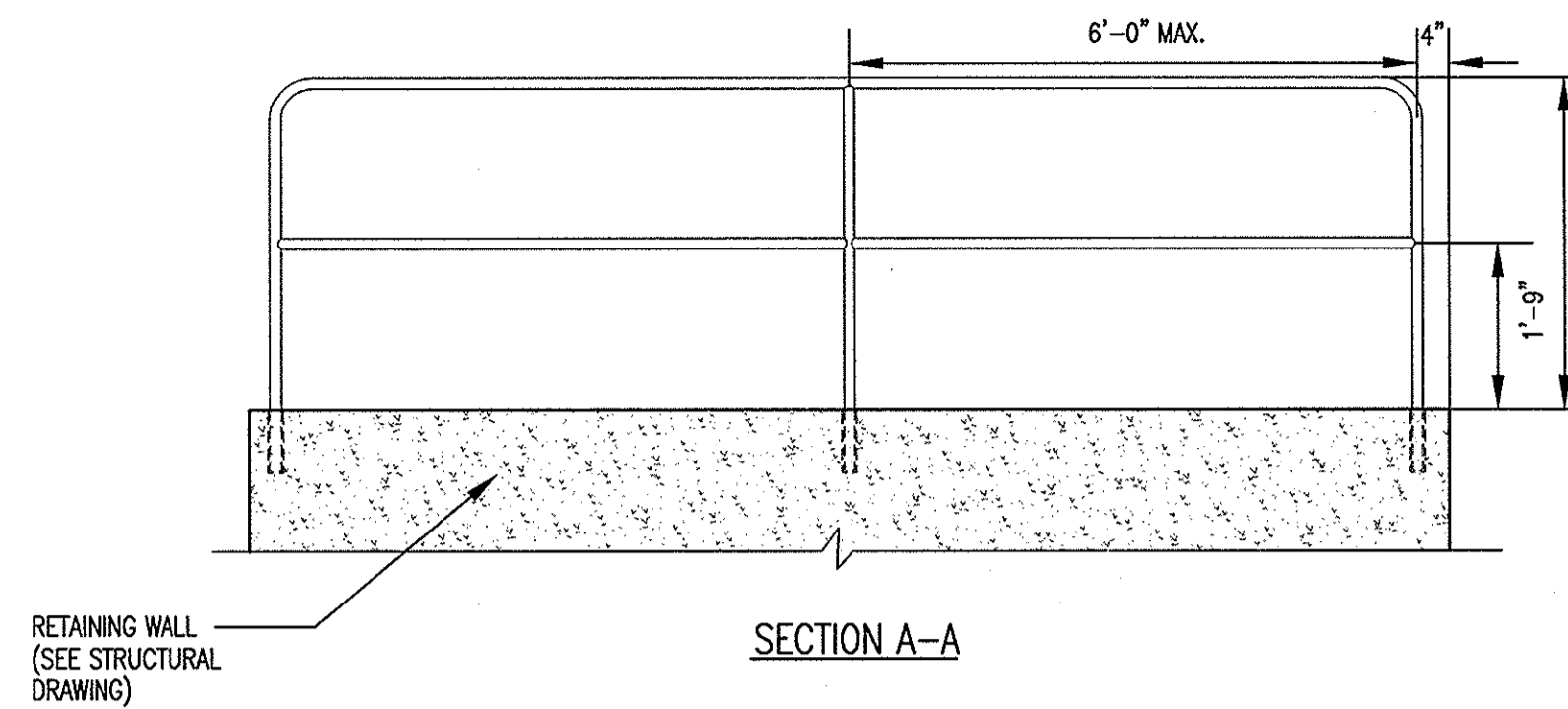
Des By	NAM	Scale	1" = 30'	Proj No	89-064
Des By	FLP	Date	DEC. 26, 1989	Drawing No.	12 OF 14
Chk By	DDS	Approved	CSC		

ADDRESS CHART		SUBDIVISION NAME				SECT./AREA		LOT-PARCEL NO.	
LOT NO.	ADDRESS	VILLAGE OF OWEN BROWN				2/2		D6 & D7	
D6	7060 DEEPAPE DRIVE	PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR		
D7	7080 DEEPAPE DRIVE	4240	4	NEW TOWN COMMERCIAL	42 MAP	6		6061.03	
		WATER CODE	SEWER CODE		SEWER CODE				
		E-11			53303006				

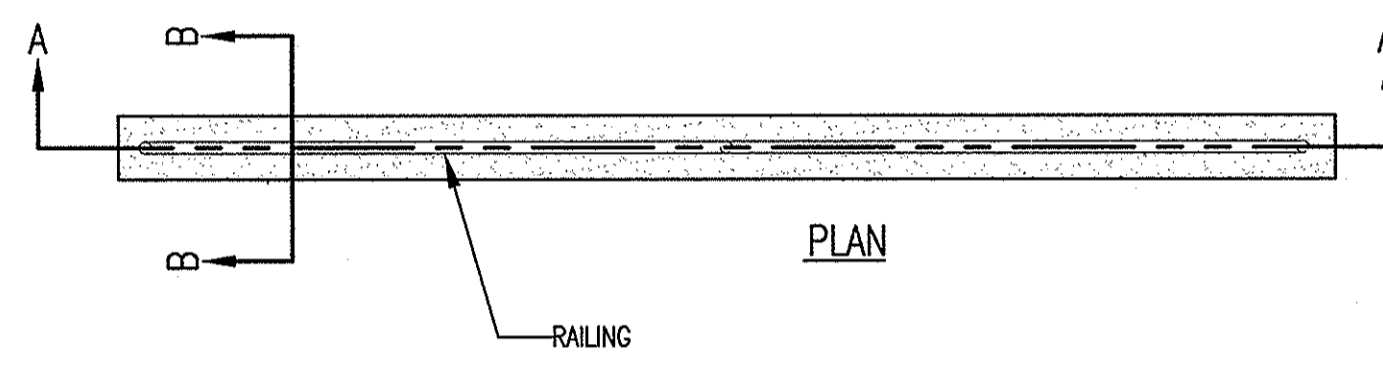


- NOTES:**
1. Place expansion joints not more than 20'-25' apart and at the end of each contiguous pour.
 2. Place saw cut contraction joints at interval matching width of sidewalk but not more than 6' apart.
 3. Provide expansion joints where pour meets existing concrete paving or curb.
 4. Expansion joints to be recessed 1/4" below surface of sidewalk.
 5. When sidewalk abuts back of street curb, walk shall be 1/4" above top of curb.
 6. When sidewalk abuts existing concrete walk, core drill and install dowels per detail.
 7. Match score pattern of adjacent sidewalk where practical.
 8. Unless otherwise shown on plan, contractor to submit layout of proposed contraction expansion joints for approval prior to pouring concrete.

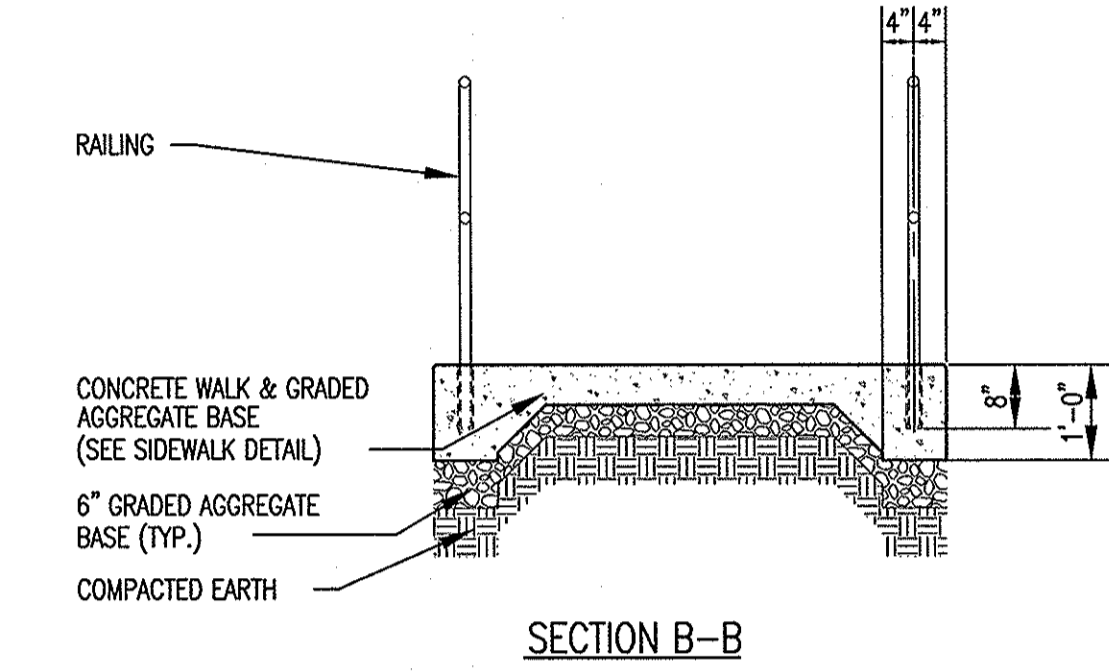
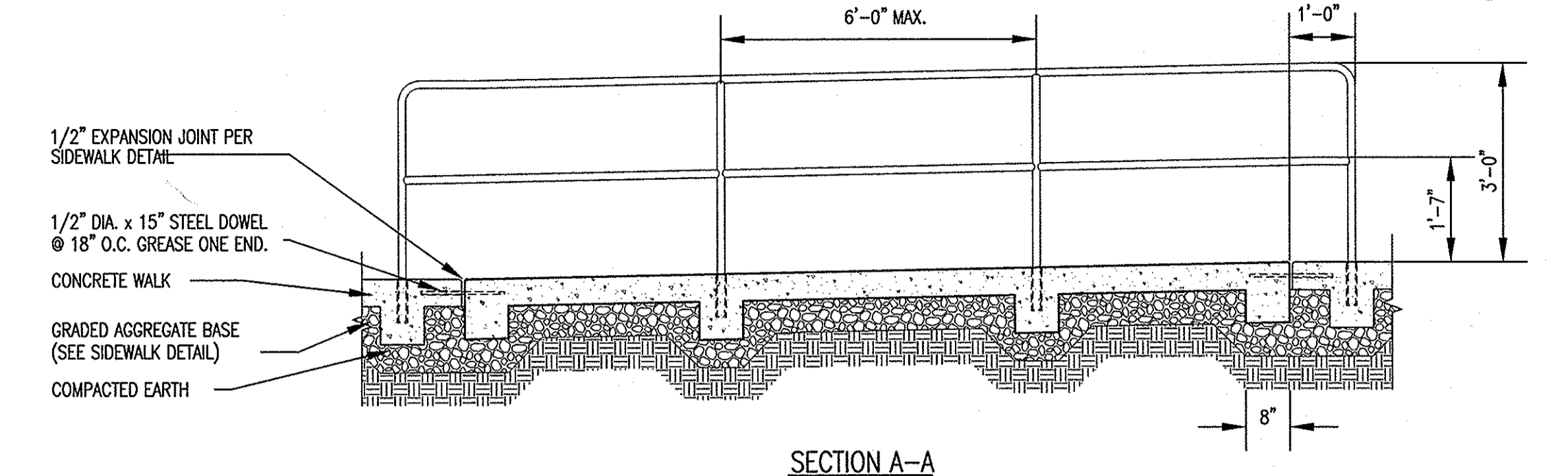
1 CONCRETE SIDEWALK DETAIL NOT TO SCALE



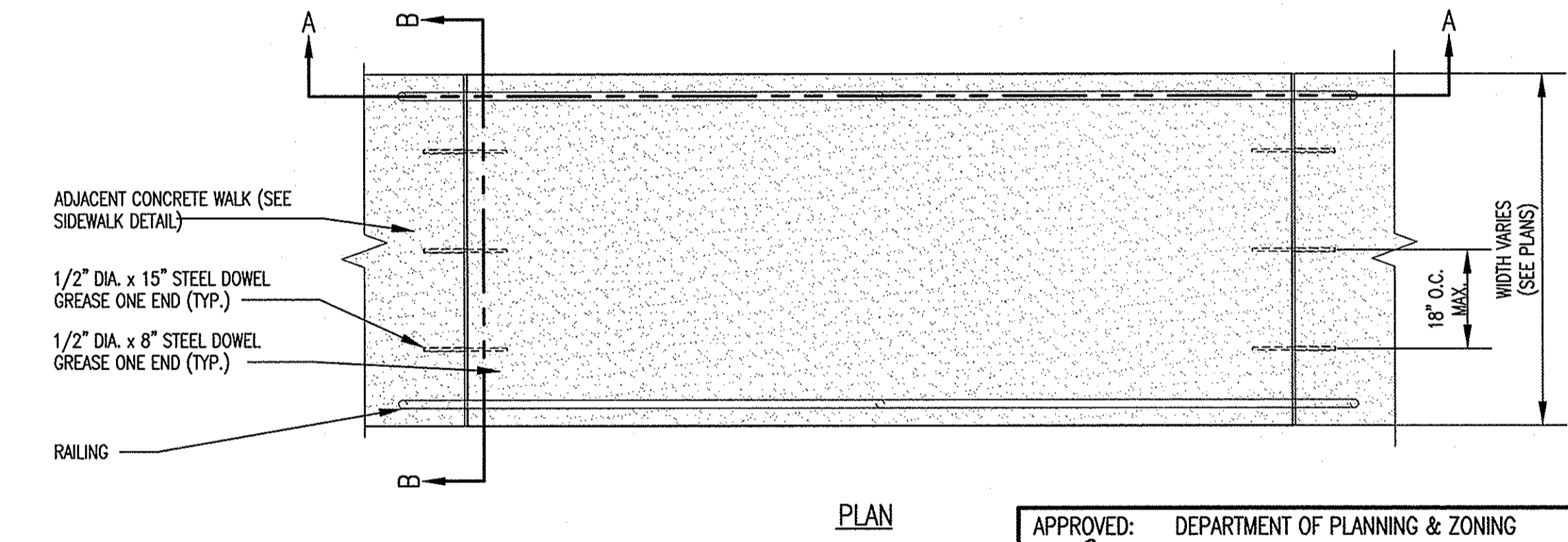
- NOTES:**
1. RAILINGS & POST TO BE SHOP FABRICATED OF 1-1/2" O.D. STAINLESS STEEL TUBING WITH ALL JOINTS CONTINUOUSLY WELDED.
 2. TOP OF RAILING TO BE 42" ABOVE WALKING SURFACE.
 3. ALL EXPOSED CONCRETE EDGE RADII SHALL BE 1/2".
 4. ALL RAILING EXTERIOR RADII SHALL BE 4".
 5. RAILING POSTS SHALL BE INSTALLED AT A DEPTH OF 8" INTO CONCRETE. CONCRETE SHALL BE CORE DRILLED AND POST SET WITH NON-SHRINK GROUT.



2 RAILING DETAIL FOR REINING WALL SCALE: 1/2" = 1'-0"

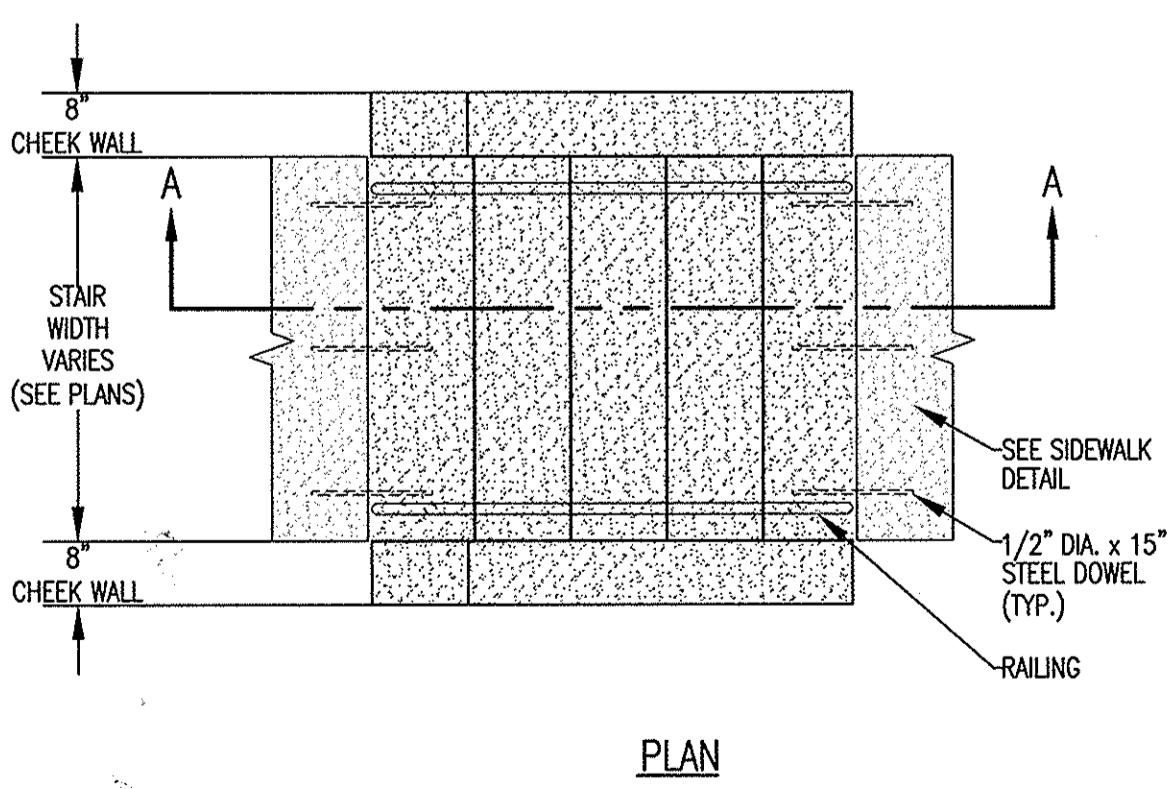
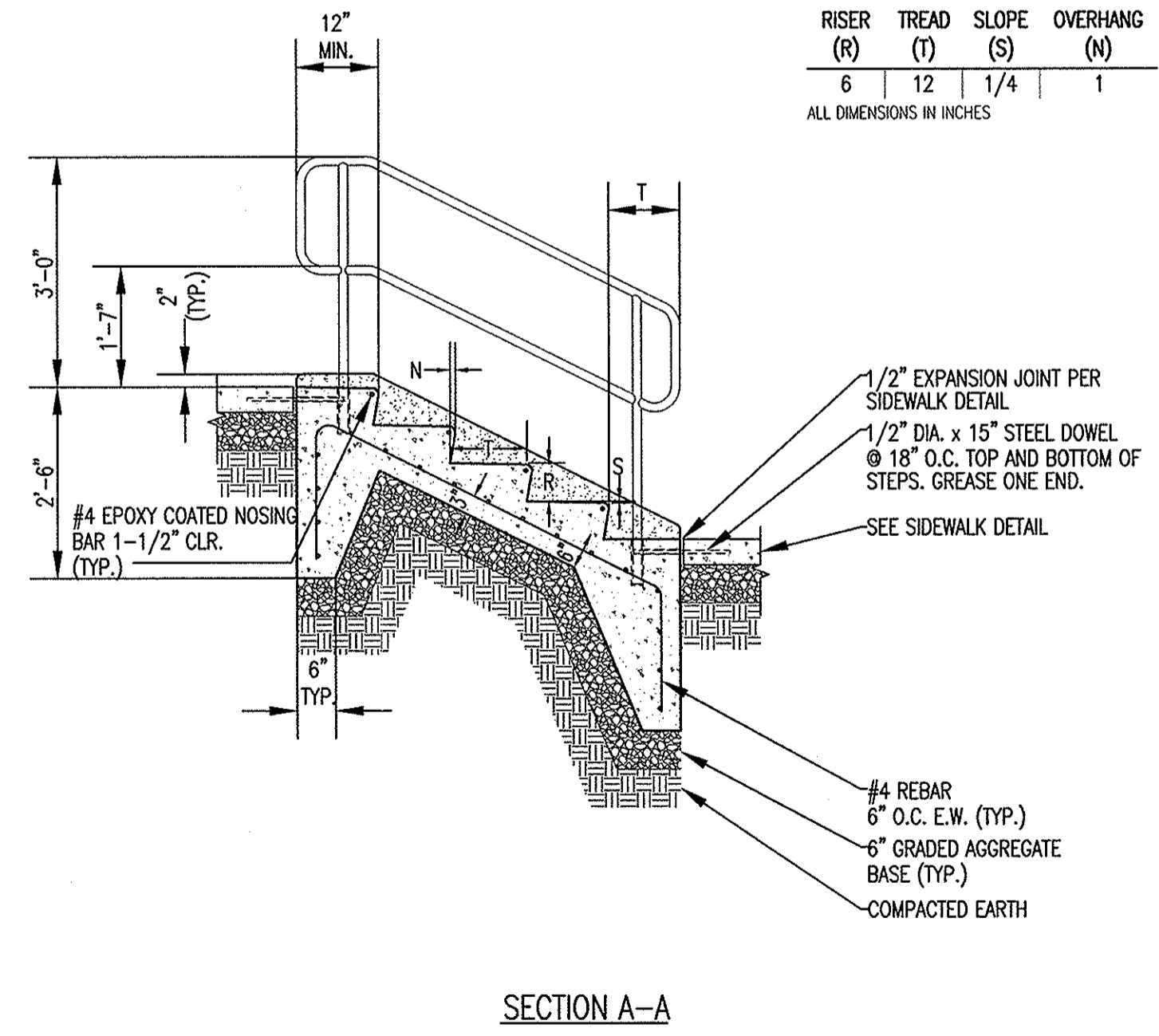


- NOTES:**
1. RAILINGS & POST TO BE SHOP FABRICATED OF 1-1/2" O.D. STAINLESS STEEL TUBING WITH ALL JOINTS CONTINUOUSLY WELDED.
 2. TOP OF RAILING TO BE 36" ABOVE WALKING SURFACE.
 3. ALL CONCRETE TO BE SHA MIX NO. 3.
 4. ALL EXPOSED CONCRETE EDGE RADII SHALL BE 1/2".
 5. ALL RAILING EXTERIOR RADII SHALL BE 4".
 6. ALL RAILING EXTERIOR RADII SHALL BE 4".
 7. RAILING POSTS SHALL BE INSTALLED AT A DEPTH OF 8" INTO CONCRETE. CONCRETE SHALL BE CORE DRILLED AND POST SET WITH NON-SHRINK GROUT.
 8. WALKING SURFACE TO RECEIVE LIGHT BRUSHED NON-SLIP FINISH THAT IS PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL. (SEE SPECS)
 9. UNLESS OTHERWISE SHOWN ON PLAN, ALL REBAR SHALL HAVE A MINIMUM CLEARANCE OF 3" FROM SURFACE.
 10. EXPANSION AND CONTRACTION JOINTS SHALL BE SPACED IN ACCORDANCE WITH CONCRETE SIDEWALK DETAIL.
 11. ALL EXPANSION JOINTS ON RAMP SHALL BE DOWELED AS SHOWN.



3 CONCRETE RAMP & HANDRAILS SCALE: 1/2" = 1'-0"

- NOTES:**
1. RAILINGS & POST TO BE SHOP FABRICATED OF 1-1/2" O.D. STAINLESS STEEL TUBING WITH ALL JOINTS CONTINUOUSLY WELDED.
 2. TOP OF RAILING TO BE 36" ABOVE WALKING SURFACE AND STAIR NOSE.
 3. RAILING TO EXTEND A MINIMUM OF 12" BEYOND BOTTOM AND TOP RISER.
 4. ALL CONCRETE TO BE SHA MIX NO. 3.
 5. ALL CHEEK WALL AND STAIR NOSE RADII SHALL BE 1/2".
 6. CHEEK WALL SHALL BE 2" ABOVE STAIR NOSE AND WALKING SURFACE.
 7. ALL RAILING EXTERIOR RADII SHALL BE 4".
 8. RAILING POSTS SHALL BE INSTALLED AT A DEPTH OF 8" INTO STAIR TREAD. STAIR TREAD SHALL BE CORE DRILLED AND POST SET WITH NON-SHRINK GROUT.
 9. RAILING POSTS SHALL BE A MAXIMUM SPACING OF 6'.
 10. STAIR TREADS TO RECEIVE LIGHT BRUSHED NON-SLIP FINISH. (SEE SPECS)
 11. UNLESS OTHERWISE SHOWN ON PLAN, ALL REBAR SHALL HAVE A CLEARANCE OF 3" FROM SURFACE.
 12. COORDINATE WITH STRUCTURAL PLANS FOR CHEEK WALL LOCATIONS.

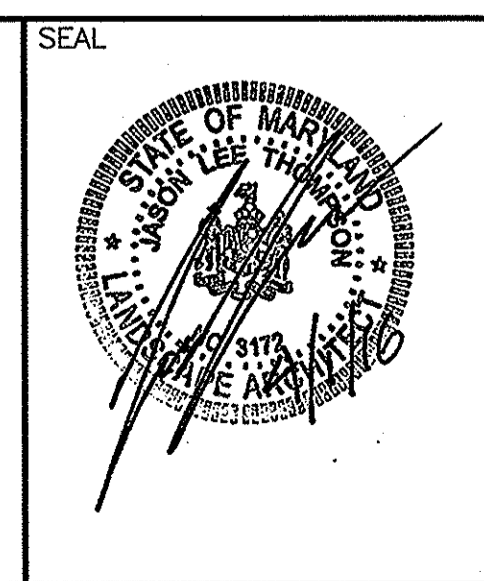


4 CONCRETE STAIRS WITH HANDRAILS AND CHEEK WALLS SCALE: 1/2" = 1'-0"

ADDRESS CHART	
LOT NO.	ADDRESS
D-6	7060 DEEPAGE DRIVE
D-11	7080 DEEPAGE DRIVE

SUBDIVISION NAME						SECT./AREA		LOT PARCEL NO.	
VILLAGE OF OWEN BROWN						2/2		D-6 & D-11	
SECT./AREA	BLOCK NO.	ZONE	TAX ZONE MAP	ELECT. DIST.	CENSUS TRACT				
3337	4	NEW TOWN COMMERCIAL	42	6	6061.03				
E-11						53303006			

FOR COUNTY USE ONLY	



APPROVED:	DEPARTMENT OF PLANNING & ZONING
<i>Valerie Joffe</i>	4-27-16
DIRECTOR	DATE
<i>Paul Schuler</i>	4-23-16
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Neil Salvalade</i>	4-22-16
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

Date	No	Revision	Description

OWNER/DEVELOPER (301) 381-0020

COLUMBIA ASSOCIATION
9450 GERWIG LANE
COLUMBIA, MD 21046

SUPREME COURT/SKATELAND
LOT D-11 LOT D-6

SITE RESOURCES
INCORPORATED
Comprehensive Land Planning & Site Design Services

14315 Jarnettville Pike • Plover, Maryland 21151
(410) 683-3388 • fax (410) 683-3389

AREA	RECORD PLAT REFERENCE NO. 3337, 4240
	VILLAGE OF OWEN BROWN
	SECTION 2 AREA 2 LOTS D-6 & D-11
	ELECTION DISTRICT NO. 6, HOWARD COUNTY, MD

TITLE		
HANDICAP AND PATIO DETAILS		
Des By	EAM/JLT	Scale AS SHOWN
Proj No	15073	
Drn By	EAM/RSW	Date April 1, 2016
Drawing No.	13_OF_14	
Chk By	JLT	Approved JLT

GENERAL NOTES

FOUNDATION AND SLAB ON GRADE:

NOTE: 1
FOOTINGS ARE DESIGNED FOR A BEARING CAPACITY OF 3000 PSF. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL 1'-4" BELOW ORIGINAL GRADE OR ON STRUCTURALLY COMPACTED FILL. BOTTOM OF EXTERIOR FOOTINGS SHALL BE 2'-4" BELOW FINISHED GRADE. A GEOTECHNICAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION SHALL VERIFY THE SOIL PRESSURE IN THE FIELD. IF FOUND TO BE LESS THAN THE REQUIRED BEARING CAPACITY, THE FOOTINGS WILL HAVE TO BE REDESIGNED.

NOTE: 2
DO NOT BACKFILL AGAINST WALLS UNTIL SUPPORTING SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTH.

NOTE: 3
CANTILEVER RETAINING WALLS HAVE NOT BEEN DESIGNED FOR SURCHARGE LOADINGS ASSOCIATED WITH CONSTRUCTION TRAFFIC, TEMPORARY STORAGE, ETC. THE CONTRACTOR SHALL KEEP CONSTRUCTION SURCHARGES AWAY FROM THE INFLUENCE LINE OF THESE WALLS OR THE CONTRACTOR SHALL INSTALL TEMPORARY BRACINGS FOR THESE WALLS. DESIGN OF THE TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONCRETE:

NOTE: 1
ALL CONCRETE, EXCEPT AS NOTED, SHALL BE $f_c=3000$ PSI NORMAL WEIGHT CONCRETE AT 28 DAYS. ALL CONCRETE EXPOSED TO THE WEATHER AND WALLS SHALL BE $f_c=4000$ PSI NORMAL WEIGHT CONCRETE AND SHALL BE AIR ENTRAINED FOR SEVERE EXPOSURE PER ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION).

NOTE: 2
ALL REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 (LATEST LOCAL APPROVED EDITION), GRADE 60. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (LATEST LOCAL APPROVED EDITION).

NOTE: 3
ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION) EXCEPT AS OTHERWISE NOTED.

NOTE: 4
UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:
CAST AGAINST EARTH — 3"
EXPOSED TO EARTH OR WEATHER — 5 AND SMALLER BARS — 1 1/2"

NOTE: 5
CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED MIDWAY BETWEEN SUPPORTS. BEFORE FRESH CONCRETE IS POURED AGAINST CONCRETE IN PLACE, THE CONTACT SURFACES SHALL BE THOROUGHLY CLEANED, ALL LAITANCE SHALL BE REMOVED AND THE CONTACT SURFACES SHALL BE THOROUGHLY SLUSHED WITH GROUT CONSISTING OF ONE PART SAND TO ONE PART CEMENT WITH A MINIMUM AMOUNT OF WATER.

NOTE: 6
CONSTRUCTION JOINTS SHALL HAVE THE SURFACE OF THE FIRST FOUR ROUGHENED TO 1/4" AMPLITUDE, UNLESS OTHERWISE NOTED.

NOTE: 7
THE CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI 318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT, WATER-CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADMIXTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.

NOTE: 8
ALL CONCRETE WORK SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF THE FOLLOWING ACI AND ASTM DOCUMENTS:
• ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE
• ACI-318 CODE
• ACI-214 COMPRESSIVE TEST
• ACI-306 COLD WEATHER
• ACI-315 DETAILING
• ACI-347 FORMWORK
• ACI-305 HOT WEATHER
• ACI-211 PROPORTIONS OF CONCRETE
• ACI-304 PLACING CONCRETE
• ASTM C-84 READY-MIX CONCRETE

NOTE: 9
ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF ASTM:
• ASTM C-31 FIELD CYLINDER SPECIMENS
• ASTM C-143 SLUMP TEST
• ASTM C-231 AIR CONTENT (WHEN REQUIRED)
• ASTM C-39 LAB TESTING CYLINDERS
• ASTM C-172 SAMPLING FRESH CONCRETE
• ASTM C-42 HARDENED CORES (WHEN REQUIRED)
TEST RESULTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

NOTE: 10
ALL FORMWORK SHALL BE IN ACCORDANCE WITH ACI 347, "GUIDE TO FORMWORK FOR CONCRETE" (LATEST LOCAL APPROVED EDITION).

NOTE: 11
CONCRETE FORMWORK SHALL NOT BE DISTURBED UNTIL THE CONCRETE HAS HARDENED SUFFICIENTLY TO SUPPORT ITS OWN WEIGHT PLUS 20 PSF MINIMUM CONSTRUCTION LOAD. AS A MINIMUM, FORMS MUST REMAIN IN PLACE FOR THE LENGTH OF TIME RECOMMENDED BY ACI 347, "GUIDE TO FORMWORK FOR CONCRETE" (LATEST LOCAL APPROVED EDITION). FORM REMOVAL REQUIRES SIMULTANEOUS RESHORING. RESHORING SHALL REMAIN IN PLACE UNTIL THE CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH. IN LIEU OF THE RECOMMENDATIONS ESTABLISHED IN ACI 347, THE CONTRACTOR MAY TEST FIELD CURED CYLINDERS TO CONFIRM EARLY CONCRETE DESIGN STRENGTH. THE CONTRACTOR SHALL HAVE A FORMWORK PLAN AT THE SITE SHOWING THE SIZE AND STRENGTH OF FORMWORK, SEQUENCE OF CONSTRUCTION, AND A TEMPERATURE DEPENDENT FORMWORK REMOVAL AND RESHORING PROCEDURE. THE PLANS SHALL BE PREPARED AND SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

EXISTING CONSTRUCTION:

NOTE: 1
COLUMBIA ENGINEERING INC. HAS PREPARED THESE PLANS BASED ON A LIMITED AMOUNT OF FIELD EXPLORATION. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING WALLS SHOWN IN THE PLANS MATCH EXISTING AS BUILT CONDITIONS. IF THE AS BUILT CONDITIONS DO NOT CONFORM TO THE INFORMATION SHOWN IN THE PLANS, OR IF ANY STRUCTURAL MEMBER IS FOUND TO BE IN POOR CONDITION, THE CONTRACTOR SHALL INFORM COLUMBIA ENGINEERING INC. OF THE ACTUAL SIZES AND/OR CONDITION. RE-DESIGN AND ADDITIONAL FRAMING MAY BE REQUIRED IN THAT CASE.

MISCELLANEOUS:

NOTE: 1
ITEMS AND CONDITIONS NOTED OR IDENTIFIED IN SECTIONS AND DETAILS APPLY TO AREAS SIMILAR IN CONDITION TO THOSE DENOTED BY THE SECTION OUT OR DETAIL MARK.

NOTE: 2
THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH FABRICATION OR CONSTRUCTION.

NOTE: 3
SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS MUST BE SUBMITTED BY THE CONTRACTOR. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE FIRM COLUMBIA ENGINEERING, INC., WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND/OR THE DESIGN OF THE PROJECT.

NOTE: 4
REPRODUCTION OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

NOTE: 5
SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER REVIEW:
a. CONCRETE MIX DESIGNS
b. CONCRETE REINFORCING STEEL

NOTE: 6
THE FOLLOWING ITEMS SHALL BE DESIGNED FOR LOADS INDICATED IN THE LOCAL BUILDING CODE:
a. HANDRAILS AND GUARDRAILS
SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION AND SUBMITTED FOR REVIEW.

NOTE: 7
ALL SHOP DRAWINGS USED FOR WORK SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER, AND SHALL BE MARKED "REVIEWED" OR "REVIEWED AS NOTED."

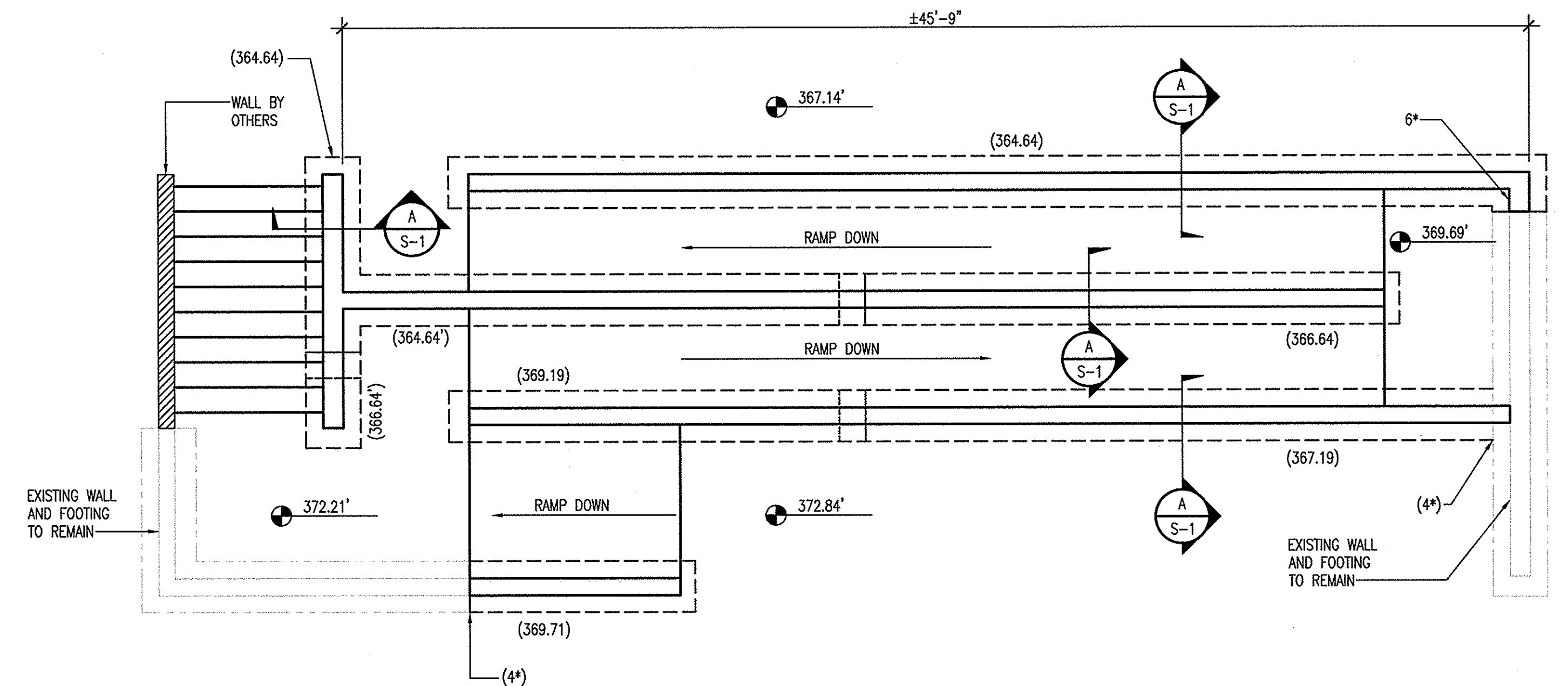
NOTE: 8
THE CONTRACTOR SHALL SUPPORT ADJACENT STRUCTURES, UTILITIES, AND EXCAVATIONS. CONTRACTOR SHALL HAVE ALL TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC., AS PART OF THE CONTRACTOR'S WORK, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

NOTE: 9
ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 (EXCEPTIONS NOTED SHALL NOT BE EXCLUDED) AND ALL LOCAL ORDINANCES. THE OWNER SHALL HIRE AN EXPERIENCED, QUALIFIED INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. THE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS A PART OF HIS DESIGN SERVICE. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.

NOTE: 10
LEGAL USE OF DOCUMENTS
THE PLANS, SPECIFICATIONS AND OTHER INFORMATION CONTAINED IN THESE DRAWINGS (COLLECTIVELY THE "DRAWINGS") WERE PREPARED BY COLUMBIA ENGINEERING, INC. AND ARE INSTRUMENTS OF PROFESSIONAL SERVICES RENDERED AND DELIVERED PURSUANT TO THE TERMS AND CONDITIONS OF A WRITTEN AGREEMENT (THE "AGREEMENT") ONLY TO THE RECIPIENT NAMED THEREIN. ANY USE OF THE DRAWINGS BY ANY PARTY WHICH IS INCONSISTENT WITH THE TERMS AND CONDITIONS OF THE AGREEMENT IS EXPRESSLY PROHIBITED. COLUMBIA ENGINEERING, INC. EXPRESSLY RESERVES ITS COPYRIGHT AND ALL INTELLECTUAL PROPERTY AND OTHER RIGHTS IN THE DRAWINGS. NO PORTION OF THE DRAWINGS ARE TO BE REPRODUCED, CHANGED OR OTHERWISE USED IN ANY FORM OR MANNER WHATSOEVER WHICH IS INCONSISTENT WITH EITHER THE AGREEMENT OR THE PURPOSES FOR WHICH THEY WERE ORIGINALLY PREPARED, NOR ARE THEY TO BE DEEMED ASSIGNED TO ANY PERSON OR ENTITY WITHOUT OBTAINING THE EXPRESS PRIOR WRITTEN PERMISSION AND CONSENT OF COLUMBIA ENGINEERING, INC. ITS EMPLOYEES, OFFICERS, DIRECTORS AND AGENTS, FROM AND AGAINST ANY AND ALL DAMAGES WHICH ARISE OUT OF OR IN CONNECTION WITH ANY VIOLATION OF THE FOREGOING.

DESIGN CODES:

- INTERNATIONAL BUILDING CODE: 2015
- BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE: ACI 318-11

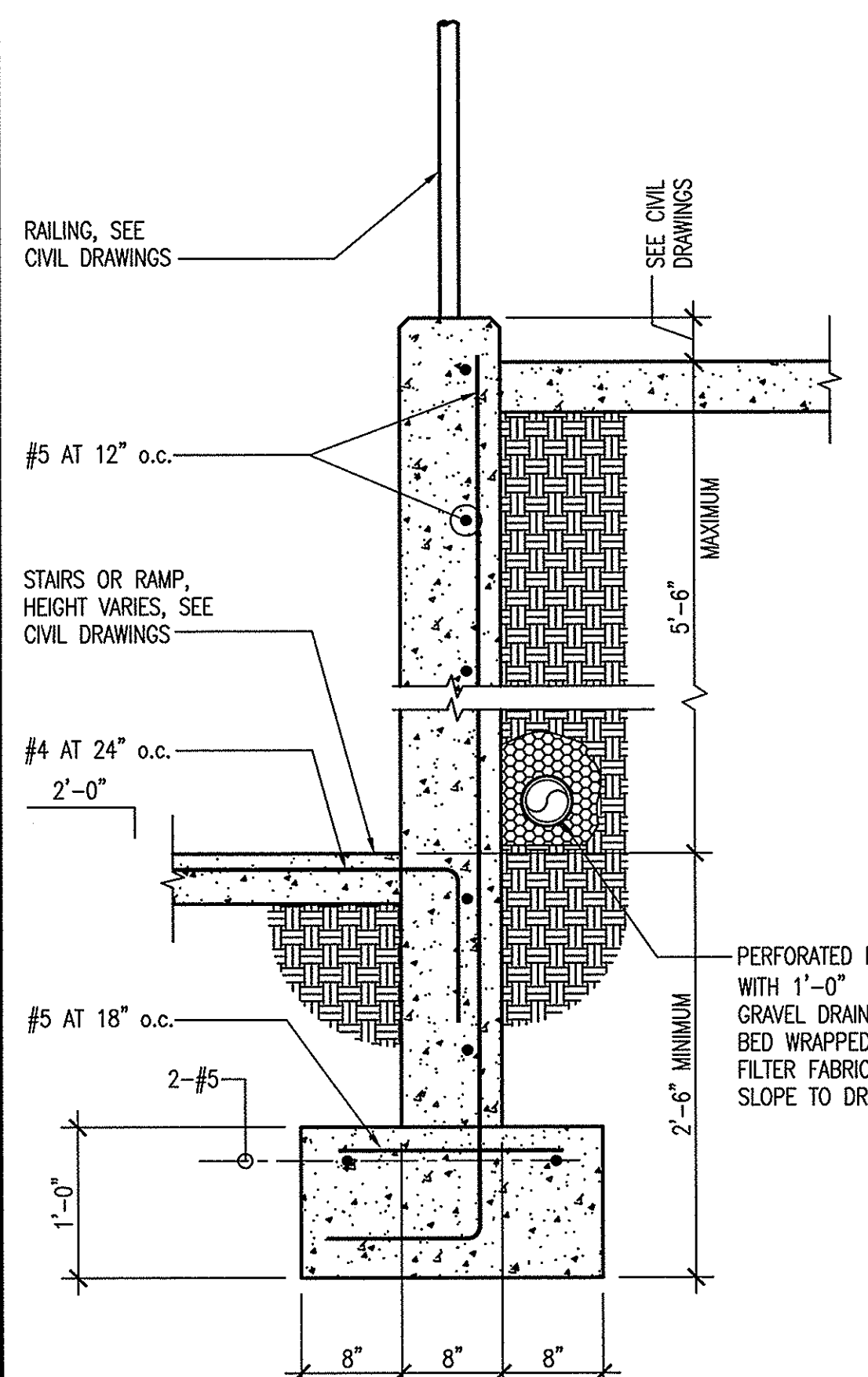


PLAN

SCALE: 1/4"=1'-0"

NOTES:

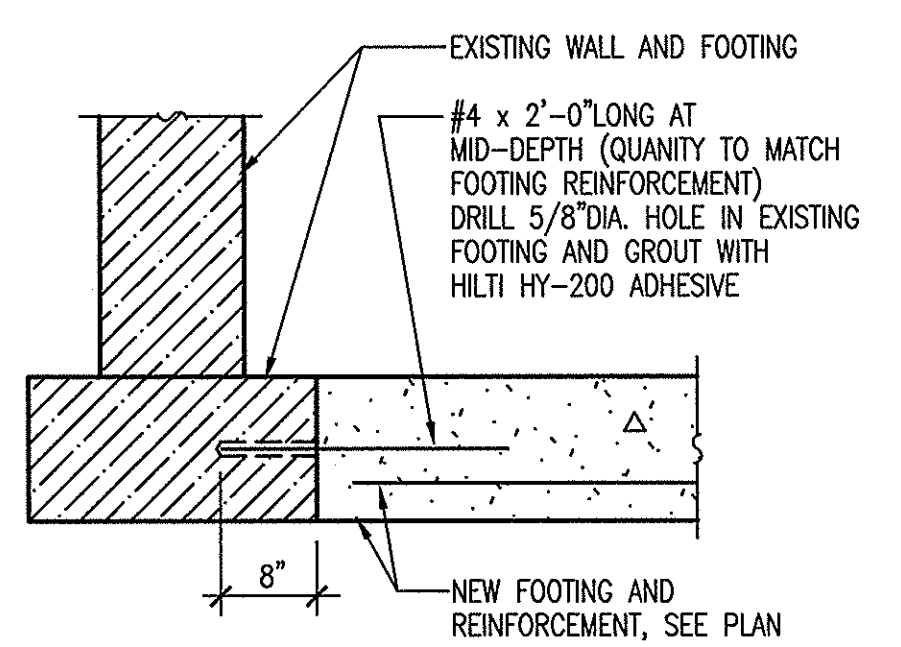
- SEE SITE GRADING PLAN FOR DIMENSIONS.
- SPOT ELEVATIONS ARE APPROXIMATE. SEE SITE GRADING PLAN FOR ACTUAL DIMENSIONS.
- BOTTOM OF EXTERIOR FOOTING ELEVATION SHALL BE MINIMUM 2'-6" BELOW FINISHED GRADE. TOP OF FOOTING NOTED THUS: (...). ON PLAN, TOP OF FOOTING ELEVATIONS ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED.
- (4*) DENOTES BOTTOM OF NEW FOOTING TO MATCH EXISTING. ADJUST FOOTINGS AS REQUIRED. MAINTAIN 2'-6" MINIMUM FROST DEPTH. DOWEL NEW FOOTING TO EXISTING. SEE C/S-1.
- REFER TO C103 FOR TOP OF WALL AND SPOT ELEVATIONS.
- (6*) DENOTES DRAIN PIPE THROUGH WALL. SEE D/S-1.



SECTION

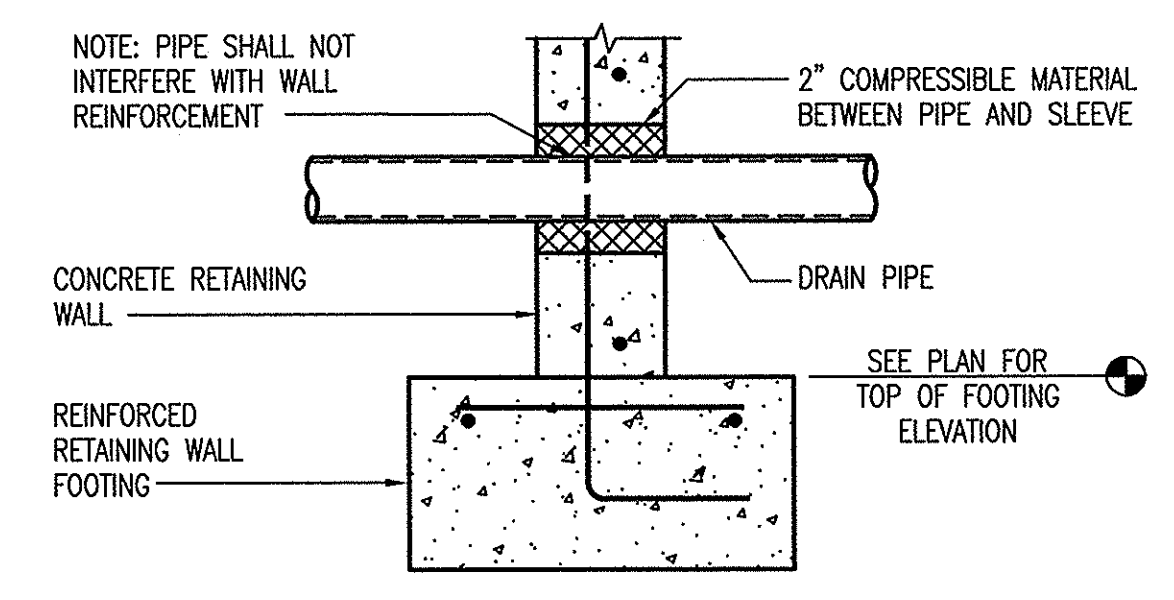
SCALE: 1"=1'-0"

A
S-1



TYPICAL FOOTING AT EXISTING WALL DETAIL

B
S-1



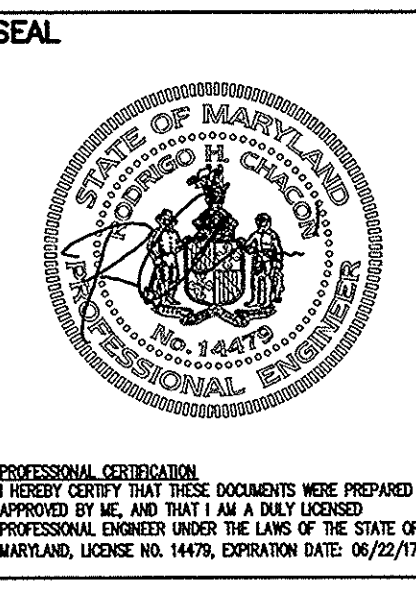
TYPICAL PIPE THROUGH CONCRETE WALL DETAIL

C
S-1

ADDRESS CHART	
LOT NO.	ADDRESS
D-6	7060 DEEPAPE DRIVE
D-11	7080 DEEPAPE DRIVE

SECTION	AREA	LOT	PARCEL NO.
VILLAGE OF OWEN BROWN	2/2	D-6 & D-11	
3337	4	NEW TOWN COMMERCIAL	42
4240			6
			6061.03

FOR COUNTY USE ONLY



APPROVED: DEPARTMENT OF PLANNING & ZONING
William J. J. J. 4-27-16
 DIRECTOR DATE
John E. J. 4-25-16
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
V. J. 4-27-16
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Date No Revision Description
 OWNER/DEVELOPER (301) 381-0020
 COLUMBIA ASSOCIATION
 9450 GERWIG LANE
 COLUMBIA, MD 21046

SUPREME COURT/SKATELAND
 LOT D-11 LOT D-6

SITE RESOURCES
 Incorporated
 Comprehensive Land Planning & Site Design Services
 14315 Jarraldville Pike • Phoenix, Maryland 21131
 (410) 683-3000 • Fax (410) 683-3009

AREA RECORD PLAT REFERENCE NO. 3337, 4240
 VILLAGE OF OWEN BROWN
 SECTION 2 AREA 2 LOTS D-6 & D-11
 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MD

RETAINING WALL DETAILS

Des By EAM/JLT Scale AS SHOWN Proj No 15073
 Drn By EAM/RSW Date April 1, 2016 Drawing No.
 Chk By RC Approved JC 14 OF 14