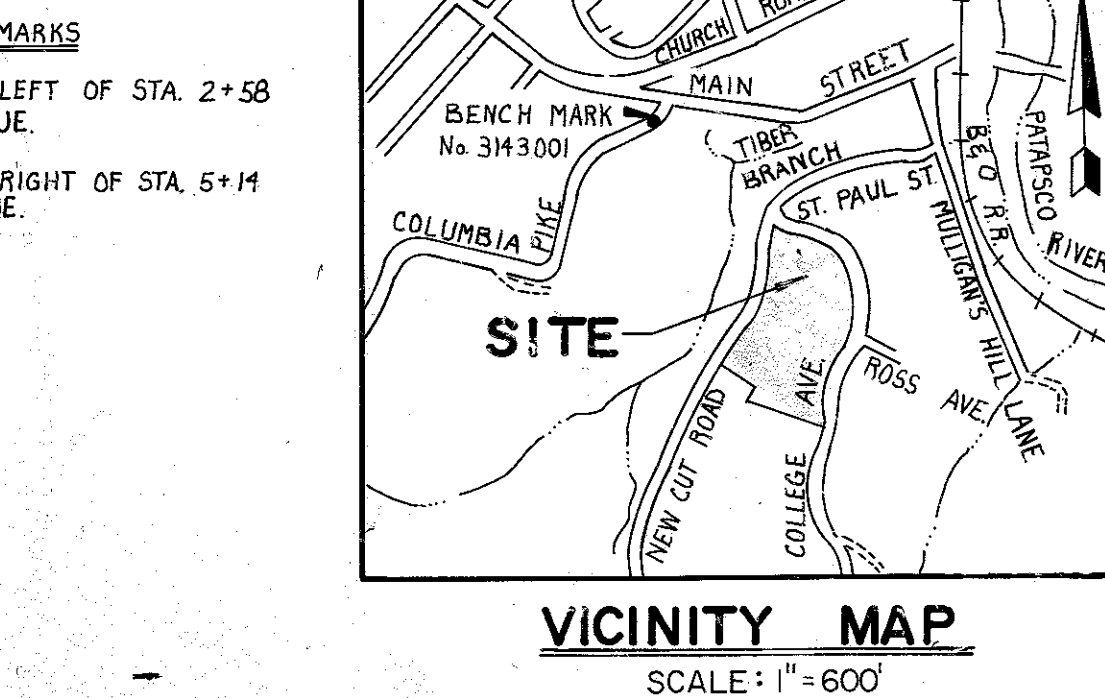
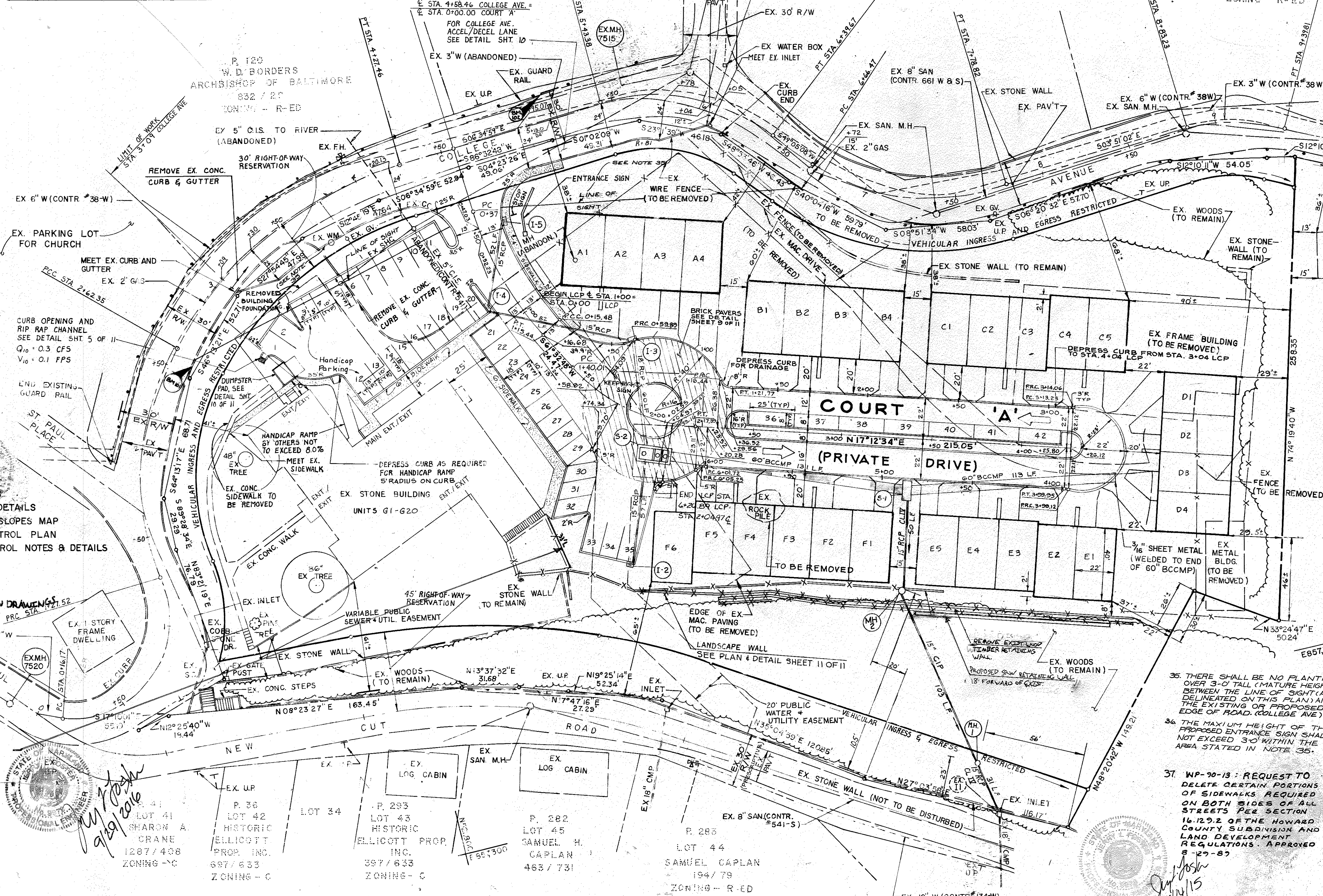


UNIT NO.	STREET ADDRESS
A 1	3784 COLLEGE AVE.
A 2	3782 " "
A 3	3780 " "
A 4	3778 " "
B 1	3774 " "
B 2	3772 " "
B 3	3770 " "
B 4	3768 " "
C 1	3764 " "
C 2	3762 " "
C 3	3760 " "
C 4	3758 " "
C 5	3756 " "
D 1	3752 " "
D 2	3750 " "
D 3	3748 " "
D 4	3746 " "
E 1	3742 " "
E 2	3740 " "
E 3	3738 " "
E 4	3736 " "
E 5	3734 " "
F 1	3730 " "
F 2	3728 " "
F 3	3726 " "
F 4	3724 " "
F 5	3722 " "
F 6	3720 " "
G 1	3700 COLLEGE AVE.
G 2	" "
G 3	" "
G 4	" "
G 5	" "
G 6	" "
G 7	" "
G 8	" "
G 9	" "
G 10	" "
G 11	" "
G 12	" "
G 13	" "
G 14	" "
G 15	" "
G 16	" "
G 17	" "
G 18	" "
G 19	" "
G 20	" "

CURVE DATA (EXISTING)	RADIUS	LENGTH	TAN	DELTA	CHORD	CHORD BEARING
PC STA. 0+617 TO PCC STA. 1+27.52	5500'	111.35'	88.02'	116°00'00"	9329'	S40°57'12" E
PRC STA. 1+27.52 TO PCC STA. 2+62.35	150.00'	134.83'	72.35'	51°30'00"	13033'	S73°12'12" E
PCC STA. 2+62.35 TO PT STA. 4+27.46	216.00'	165.11'	86.87'	44°00'00"	16108'	S25°27'12" E
PC STA. 5+43.38 TO PT STA. 6+39.67	105.00'	96.28'	51.82'	52°32'20"	92.94'	S22°48'58" W
PC STA. 6+66.47 TO PT STA. 7+78.82	121.61'	112.35'	60.55'	52°56'10"	108.40'	S22°37'03" W
PC STA. 8+83.23 TO PT STA. 9+39.81	106.58'	96.58'	28.97'	30°24'56"	55.92'	S11°21'26" W
PC STA. 0+3700 TO PT STA. 1+15.54	180.00'	78.54'	39.91'	25°00'00"	77.92'	N74°02'48" E
PC STA. 1+40.01 TO PT STA. 2+17.39	100.00'	77.38'	40.75'	44°20'14"	75.47'	N39°22'41" E



- ### GENERAL NOTES
- SUBJECT PROPERTY IS LOCATED ON TAX MAP 25-A, PARCEL 295. SEE LITIGATION, FOLIO 628.
 - PRESENT ZONING IS R-O.
 - SITE ANALYSIS:
 - TOTAL AREA OF SITE: 0.7978 AC. ± OR 4126 AC.
 - OPEN SPACE REQUIRED: 0.41 AC.
 - OPEN SPACE PROVIDED: 2.24 AC. ± OR 55%.
 - OPEN SPACE REQUIRED (SLOPES 2% OR LESS): 0.31 AC.
 - OPEN SPACE PROVIDED (SLOPES 2% OR LESS): 1.34 AC.
 - BUILDING COVERAGE OF SITE: 0.66 AC.
 - PROPOSED 3/4" RESERVATION: 0.46 AC.
 - NEW CUT ROAD: 0.35 AC.
 - 48 SPACES FOR APARTMENT UNITS PROVIDED FOR APARTMENT UNITS PROVIDED: 48 UNITS.
 - STEEP SLOPES = 0.22 AC.
 - NET ACREAGE = 3.21 AC.
 - FLOOR SPACE REQUIRED FOR RESIDENTIAL UNITS: 20 APARTMENTS, 28 CONDOMINIUMS (16-431-SQUARE FEET) MINIMUM FLOOR AREA: 64 SQ. FT. MAXIMUM OF TENANTS: 96.
 - EXISTING CONDITIONS BY DEMBERRY AND DAVIS, REF. 89-18-23, SUPPLEMENTED BY JOHN E. HARMS, JR. AND ASSOCIATES, INC., JAN. 1989.
 - ALL ROADWAYS ON SITE ARE PRIVATE.
 - ALL WORK PERFORMED WITHIN THE COLLEGE AVENUE R/W SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING THE LATEST ADDENDA THERETO.
 - RESIDENTIAL DRIVEWAY ENTRANCES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-6102, AND WITH PAVING SECTION P-1.
 - CASE STAIR: AMENDED SECTION 112.3 B.H.O. ZONING DISTRICT TO ANY APARTMENT UNITS AS MATTER OF RIGHT, HISTORIC STRUCTURES AND TO LIMIT DISTRICT TO 15 UNITS PER ACRE. SEPT. 14, 1988.
 - REAR 18'-85" VARIANCE FROM THE 40' HEIGHT RESTRICTIONS FOR SECTION 125.8.2.A.(4) IN ADDITION, ALL OUTLET LIGHT SHALL FACE BOTH DOWNWARD AND INWARD SO AS NOT TO SHINE OR REFLECT ONTO ADJACENT PROPERTIES.
 - THE SOIL CONSTRUCTION BELOW SUBGRADE OF ALL PAVING AREAS AND UNDER A FEET OF ALL PAVED AREAS SHOULD BE A DENSITY OF 98% AS DETERMINED BY THE AASHTO METHOD, COMPACTION AND DENSITY OF SOILS (9-180, METHOD A).
 - FLOOR AREA RATIO: 0.42:1 FOR PARKING PURPOSES ONLY IN ACCORDANCE WITH SECTION 127.8.2.(1)(B) OF THE HOWARD COUNTY ZONING REGULATIONS.
 - THE TYPICAL TOWN UNITS WILL BE SERVICED BY PRIVATE TRASH REMOVAL.
 - NP-89-146 WAIVER FROM SECTION 16.13A OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS MAY 24, 1989. REQUEST TO WAIVER REQUIRED SKETCH AND PRELIMINARY PLANS AND FINAL PLANS AND BOUNDARY SURVEY BY DEMBERRY AND DAVIS DATED 11/4/88.
 - THE EXISTING BUILDING AND TOWN CONDOMINIUMS WILL BE PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM.
 - ALL SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984.
 - SOIL BORINGS AS SHOWN WERE PERFORMED BY ROBERT S. BALTER CO., GEOTECHNICAL ENGINEERS (REF. SWM REPORT).
 - UTILITIES SHOWN ON THESE PLANS ARE FROM RECORD DRAWINGS. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES AS REQUIRED BY EXISTING UTILITIES.
 - CONTRACTOR SHALL NOTIFY MISS UTILITIES (550-0000) AT LEAST 2 WORKING DAYS BEFORE STARTING WORK ON THESE PLANS.
 - THE SOIL CONSTRUCTION BELOW SUBGRADE OF ALL PAVING AREAS AND UNDER A FEET OF ALL PAVED AREAS SHOULD BE A DENSITY OF 98% AS DETERMINED BY THE AASHTO METHOD, COMPACTION AND DENSITY OF SOILS (9-180, METHOD A).
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- ### INDEX OF SHEETS
- SITE LAYOUT
 - GRADING PLAN
 - WATER & SEWER PLAN
 - WATER & SEWER PROFILES
 - STORM DRAIN PROFILE & DETAILS
 - DRAINAGE AREA & STEEP SLOPES MAP
 - SEDIMENT & EROSION CONTROL PLAN
 - SEDIMENT & EROSION CONTROL NOTES & DETAILS
 - LANDSCAPE PLAN
 - DETAIL SHEET
 - DETAIL SHEET
 - RETAINING WALL CONSTRUCTION DRAWINGS

OWNER/DEVELOPER
 PATAPSCO VALLEY ASSOCIATES
 1018 N. CHARLES STREET
 BALTIMORE, MARYLAND 21202
 301 - 752 - 1616

REMAIN EXIST CONCRETE BLOCK RETAINING WALL. REPLACE IN KIND. SEE DETAIL 14, SHEET 11. REMAIN AND REPAIR EXIST FENCE.

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER: *[Signature]* DATE: 7-14-89

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONS 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

SIGNATURE OF DEVELOPER: *[Signature]* DATE: 7-14-89

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE: 7-14-89

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

APPROVED: *[Signature]* DATE: 7-14-89

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR: *[Signature]* DATE: 7-11-89

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* DATE: 7-3-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

HOWARD COUNTY HEALTH DEPARTMENT: *[Signature]* DATE: 7-6-89

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS: *[Signature]* DATE: 8-3-89

DIRECTOR: *[Signature]* DATE: 8-3-89

CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 8-3-89

SUBDIVISION NAME: GREYSTONE SECTION/AREA: N/A PARCEL NUMBER: 295

PLAT NO. 1903/628 BLOCK NO. 14/TM25 ZONE H.O. TAX/25A ELEC. DIST. 2ND. CENSUS TR. 6025

WATER CODE: 04 SEWER CODE: 1400500

SITE DEVELOPMENT PLAN
GREYSTONE
 COLLEGE AT ST. PAUL TOWNHOMES SDP 89-159
 REF SDP-88-28 1903/628
 TAX MAP 25-A PARCEL 295
 SECOND ELECTION DISTRICT HOWARD COUNTY, MD

JOHN E. HARMS JR. AND ASSOCIATES INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS

8816 CENTRE PARK DRIVE SUITE 208
 COLUMBIA MARYLAND 21045 TELEPHONE 1301 740-5200

DESIGNED BY: K.B.C.
 DRAWN BY: R.P.E.
 CHECKED BY: R.H.V.
 DATE: 1/89
 SCALE: 1" = 30'
 W.O. NO. 44-88-008A 1 SHEET OF 12

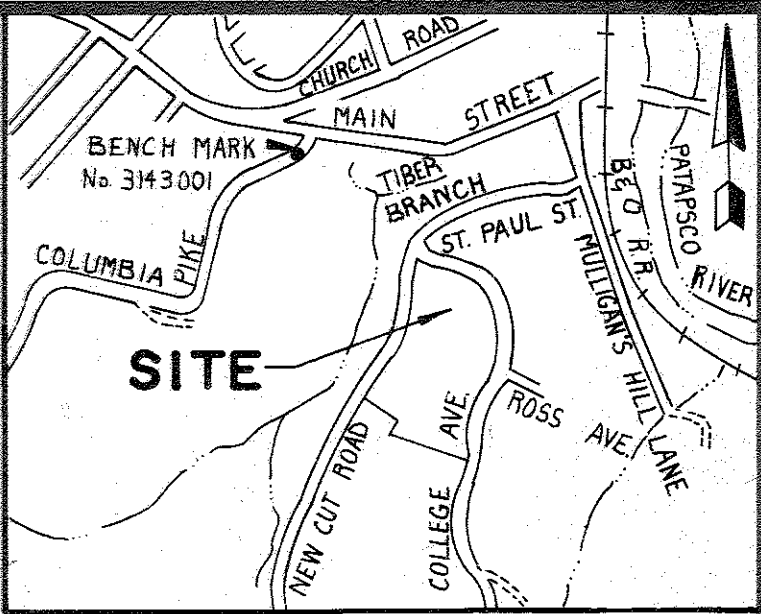
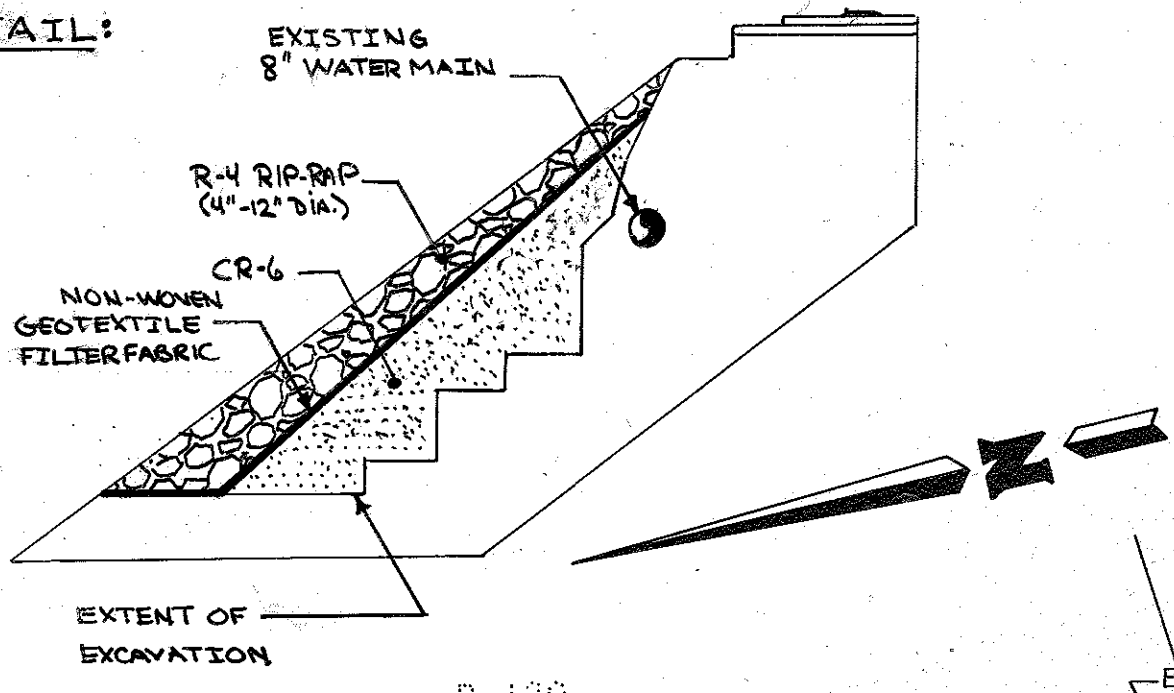
3 SLOPE REPAIR

CONSTRUCTION NOTES:

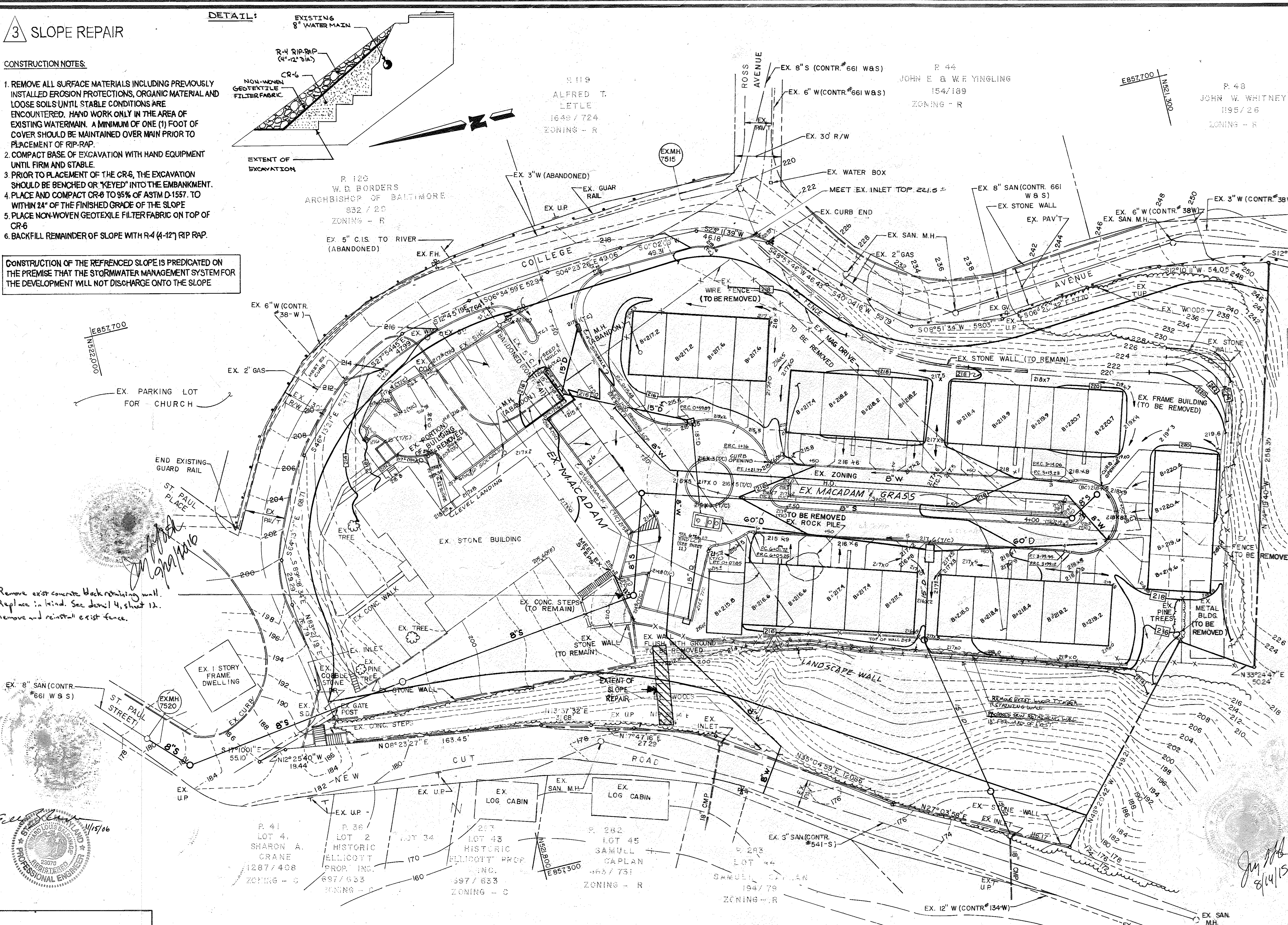
1. REMOVE ALL SURFACE MATERIALS INCLUDING PREVIOUSLY INSTALLED EROSION PROTECTIONS, ORGANIC MATERIAL AND LOOSE SOILS UNTIL STABLE CONDITIONS ARE ENCOUNTERED. HAND WORK ONLY IN THE AREA OF EXISTING WATERMAIN. A MINIMUM OF ONE (1) FOOT OF COVER SHOULD BE MAINTAINED OVER MAIN PRIOR TO PLACEMENT OF RIP-RAP.
2. COMPACT BASE OF EXCAVATION WITH HAND EQUIPMENT UNTIL FIRM AND STABLE.
3. PRIOR TO PLACEMENT OF THE CR-6, THE EXCAVATION SHOULD BE BENCHMARKED OR "KEYED" INTO THE EMBANKMENT.
4. PLACE AND COMPACT CR-6 TO 95% OF ASTM D-1557 TO WITHIN 24" OF THE FINISHED GRADE OF THE SLOPE.
5. PLACE NON-WOVEN GEOTEXTILE FILTER FABRIC ON TOP OF CR-6.
6. BACKFILL REMAINDER OF SLOPE WITH R-4 (4-12) RIP-RAP.

CONSTRUCTION OF THE REFERENCED SLOPE IS PREDICATED ON THE PREMISE THAT THE STORMWATER MANAGEMENT SYSTEM FOR THE DEVELOPMENT WILL NOT DISCHARGE ONTO THE SLOPE

DETAIL:



VICINITY MAP
SCALE: 1"=600'

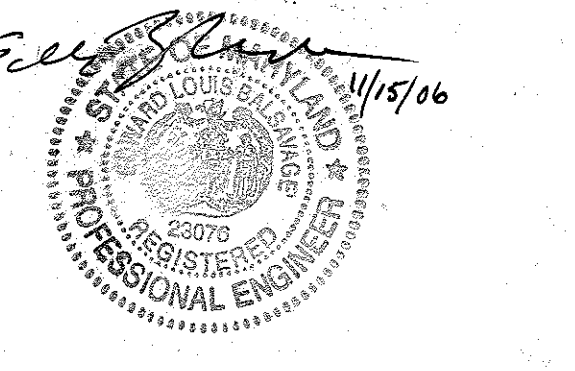


- Note**
1. For Sediment And Erosion Control See Sheet 7 of 11.
 2. For Top Of Curb Elevations For Roadway See Linear Curb Profile Sheet 11.
 3. Existing Contours By Dewberry And Davis Ref. S.D.P. 88-28 (Basis For Earthwork).
 4. Existing Features By Dewberry And Davis Ref. S.D.P. 88-28 Supplemented By John E. Harms Jr. And Associates Inc. Jan. 7, 1989.
 5. All Units Built on Fill To Have 95% Compacted Fill With Spread Footers or Equivalent.

OWNER/DEVELOPER
PATAPSCO VALLEY ASSOCIATES
1018 N. CHARLES STREET
BALTIMORE, MARYLAND 21202
301-752-1616

GRADING PLAN
GREYSTONE
COLLEGE AT ST. PAUL TOWNHOUSES
REF. SDP 88-28
TAX MAP 25-A
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS PLANNERS SURVEYORS
8818 CENTRE PARK DRIVE SUITE 205
COLUMBIA, MARYLAND 21045 TELEPHONE (301) 740-3200



ENGINEER'S CERTIFICATE
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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *John E. Harms Jr.* 2/14/89
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

APPROVED: *Sharon A. Crane* 2/14/89
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

APPROVED: *John E. Harms Jr.* 8-3-89
DIRECTOR DATE

APPROVED: *Stephen C. Hahn* 8/3/89
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

APPROVED: *James J. ...* 9/2/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: *John ...* 9-6-89
FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER DATE

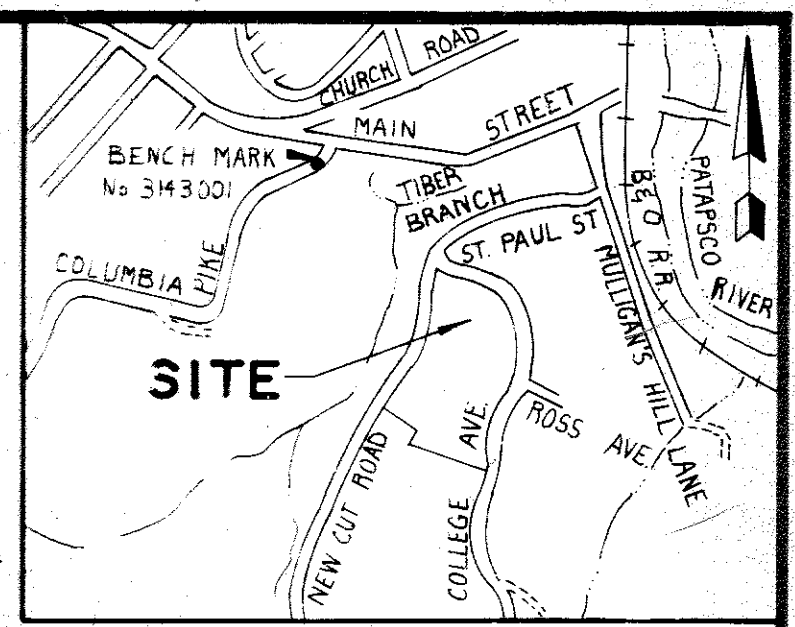
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: *James J. ...* 8/31/89
DIRECTOR DATE

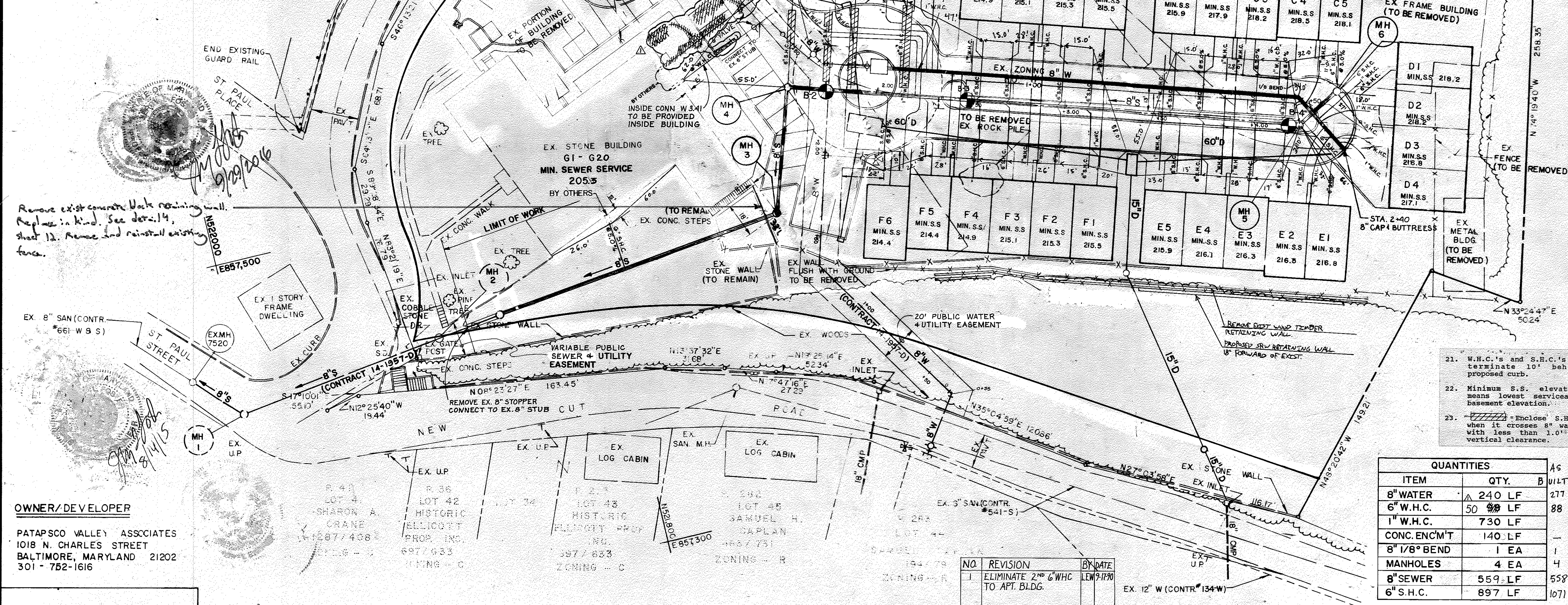
SUBMISSION NAME	SECTION/AREA	PARCEL NUMBER

DESIGNED BY: K.B.C.
DRAWN BY: R.P.E.
CHECKED BY: R.H.V.
DATE: 1/89
SCALE: 1"=30'
W.C. NO. 44-88-008A 2 SHEET OF 12

SEWER HOUSE CONNECTIONS		
STATION	UNIT	ELEV. (TO CURB LINE)
MH #4 TO MH #5		
MH-4	A1	211.2
0+20	A2	211.4
0+46	A3	211.6
0+53	F6	211.5
0+61	A4	211.8
0+75	F5	211.5
1+02	B1	211.8
1+04	F4	211.8
1+18	B2	212.0
1+20	F3	212.0
1+45	B3	212.2
1+47	F2	212.2
1+61	B4	212.4
1+63	F1	212.4
2+05	C1	212.8
2+09	E5	212.8
2+20	C2	213.9
2+22	E4	213.0
2+49	C3	214.2
2+51	E3	213.2
2+65	C4	214.4
2+67	E2	213.4
MH-5	E1	213.6
MH #5 TO MH #6		
0+07	D4	213.7
0+24	D3	213.6
MH-6	D2	213.7
MH-6	D1	213.7
MH-6	C5	213.7
MH #2 TO MH #3		
0+71	G1-G20	197.93 (5' FROM BLDG.)



- GENERAL NOTES**
- Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the engineer at the contractor's expense.
 - All horizontal controls are based on Maryland State coordinates.
 - All vertical controls are based on U.S.G.S. data.
 - All pipe elevations shown are invert elevations.
 - Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
 - For details not shown on the drawing, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction. The contractor shall have a copy of Volume IV on the job.
 - Where test pits have been made on existing utilities, they are noted by the symbol \odot at the location of the test pit or pits as included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
 - Contractor shall notify the following utilities or agencies at least five working days before starting work shown on these plans.
 - State Highway Administration-531-5533
 - Baltimore Gas & Electric Co.-Contractor Services 561-2585
 - Baltimore Gas & Electric Co.-Underground Damage Control-234-5621
 - Baltimore Gas & Electric Co. Trouble Shooting 299-9013
 - Miss Utility-1-559-0100
 - Colonial Pipeline Co.-795-1390
 - Bureau of Utilities, Howard Co. Dept. of Public Works-992-2366
 - Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
 - Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
 - All water mains to be D.I.P. unless otherwise noted.
 - Tops of all water mains to have a minimum of 3' cover unless otherwise noted.
 - Valves adjacent to tees shall be trapped to tees.
 - All fittings shall be buttressed or anchored with concrete in accordance with the standard details unless otherwise provided for on the drawings.
 - Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the hydrant shall be compacted in accordance with sections 1003 and 1008 of the Standard Specifications.
 - The contractor shall not operate any water main valves on the existing water system.
 - All sewer mains shall be C.S.P.P., R.C.S.P., V.C.P.P., A.C.P. class 2400 or P.V.C. unless otherwise noted.
 - The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
 - All manholes shall be 4'-0" inside diameter unless otherwise noted.
 - Manholes shown with 12" and 16" walls are brick manholes only.



OWNER/DEVELOPER
 PATAPSCO VALLEY ASSOCIATES
 1018 N. CHARLES STREET
 BALTIMORE, MARYLAND 21202
 301-752-1616

QUANTITIES		
ITEM	QTY.	BUILT
8" WATER	240 LF	277
6" W.H.C.	50 LF	88
1" W.H.C.	730 LF	
CONC. ENC/M	140 LF	
8" 1/8" BEND	1 EA	1
MANHOLES	4 EA	4
8" SEWER	559 LF	558
6" S.H.C.	897 LF	1071

WATER & SEWER GREYSTONE
 REF. SDP-88-28 SDP 89-159
 TAX MAP 25-A PARCEL 295
 SECOND ELECTION DISTRICT HOWARD COUNTY, MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
 CONSULTING ENGINEERS PLANNERS SURVEYORS
 8816 CENTRE PARK DRIVE SUITE 2C B
 COLUMBIA, MARYLAND 21045 TELEPHONE 301-740-5200

DESIGNED BY: J.G.H.
 DRAWN BY: R.A.M.
 CHECKED BY: R.H.V.
 DATE: 2/89
 SCALE: 1"=30'
 W.C. NO. 44-88-008A 3 SHEET OF 12

APPROVED
 DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 7-14-89

ENGINEER'S CERTIFICATE
 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 REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER: _____ DATE: _____

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SIGNATURE OF DEVELOPER: _____ DATE: _____

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE: _____
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: _____ DATE: _____
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

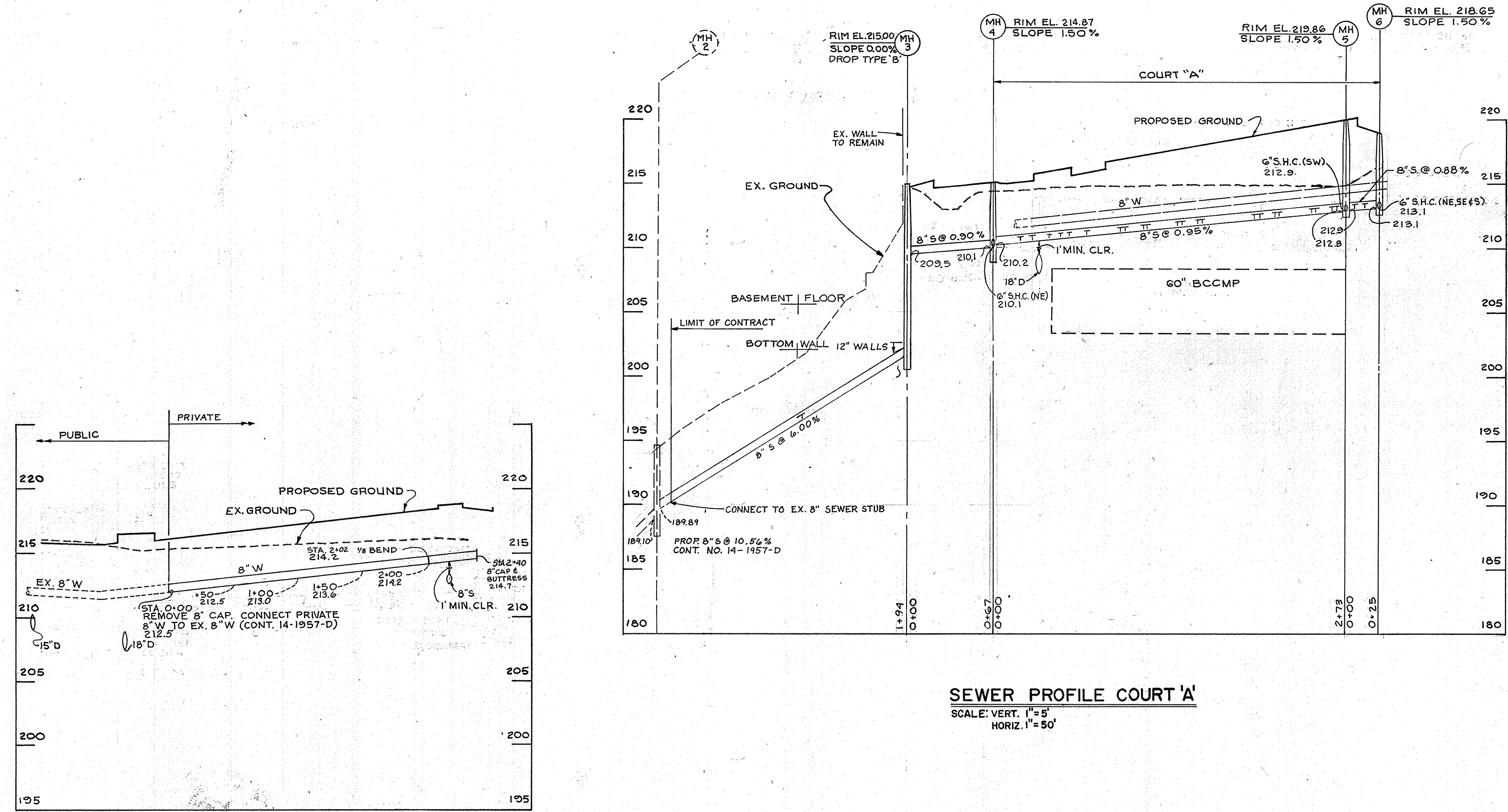
DATE: 9/11/89
 DATE: 7/21/89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 1-6-89

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

DATE: 8/31/89
 DATE: 8-30-89

STRUCTURE SCHEDULE				
STRUCTURE	TYPE	TOP ELEV.	LOCATION	REMARKS
MH-3	DROP TYPE 'B'	215.00	SEE PLAN	HOWARD COUNTY DETAIL S 1.32
MH-4	4' STD.	214.87	1+61 COURT 'A' 19' RT	HOWARD COUNTY DETAIL G 5.01
MH-5	4' STD.	219.86	4+22 COURT 'A' 10' RT	HOWARD COUNTY DETAIL G 5.01
MH-6	4' TERMINAL	218.65	SEE PLAN	HOWARD COUNTY DETAIL S 5.01



SEWER PROFILE COURT 'A'
SCALE: VERT. 1"=5'
HORIZ. 1"=50'

WATER PROFILE COURT 'A'
SCALE: VERT. 1"=5'
HORIZ. 1"=50'

OWNER/DEVELOPER
PATAPSCO VALLEY ASSOCIATES
1018 N. CHARLES STREET
BALTIMORE, MD 21202
TEL: 301-752-1616

**WATER & SEWER PROFILES
GREYSTONE**
COLLEGE AT ST. PAUL TOWNHOUSES
REF. SDP 88-2E
TAX MAP 25-A
SECOND ELECTION DISTRICT
SDP 89-159
PARCEL 295
HOWARD COUNTY, MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS - PLANNERS - SURVEYORS
8816 CENTRE PARK DRIVE
COLUMBIA, MARYLAND 21045
SUITE 208
TELEPHONE 1301-740-5200

DESIGNED BY: J.G.H.
DRAWN BY: R.A.M.
CHECKED BY: R.H.V.
DATE: 2/89
SCALE: AS SHOWN
W.O. NO. 44-88-008A

4 SHEET OF 12

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE: 7-14-89

ENGINEER'S CERTIFICATE
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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: [Signature]
DATE: 2/14/89

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Signature: [Signature]
DATE: 2 Feb. 1989

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED: [Signature]
HOWARD SOIL CONSERVATION DISTRICT DATE

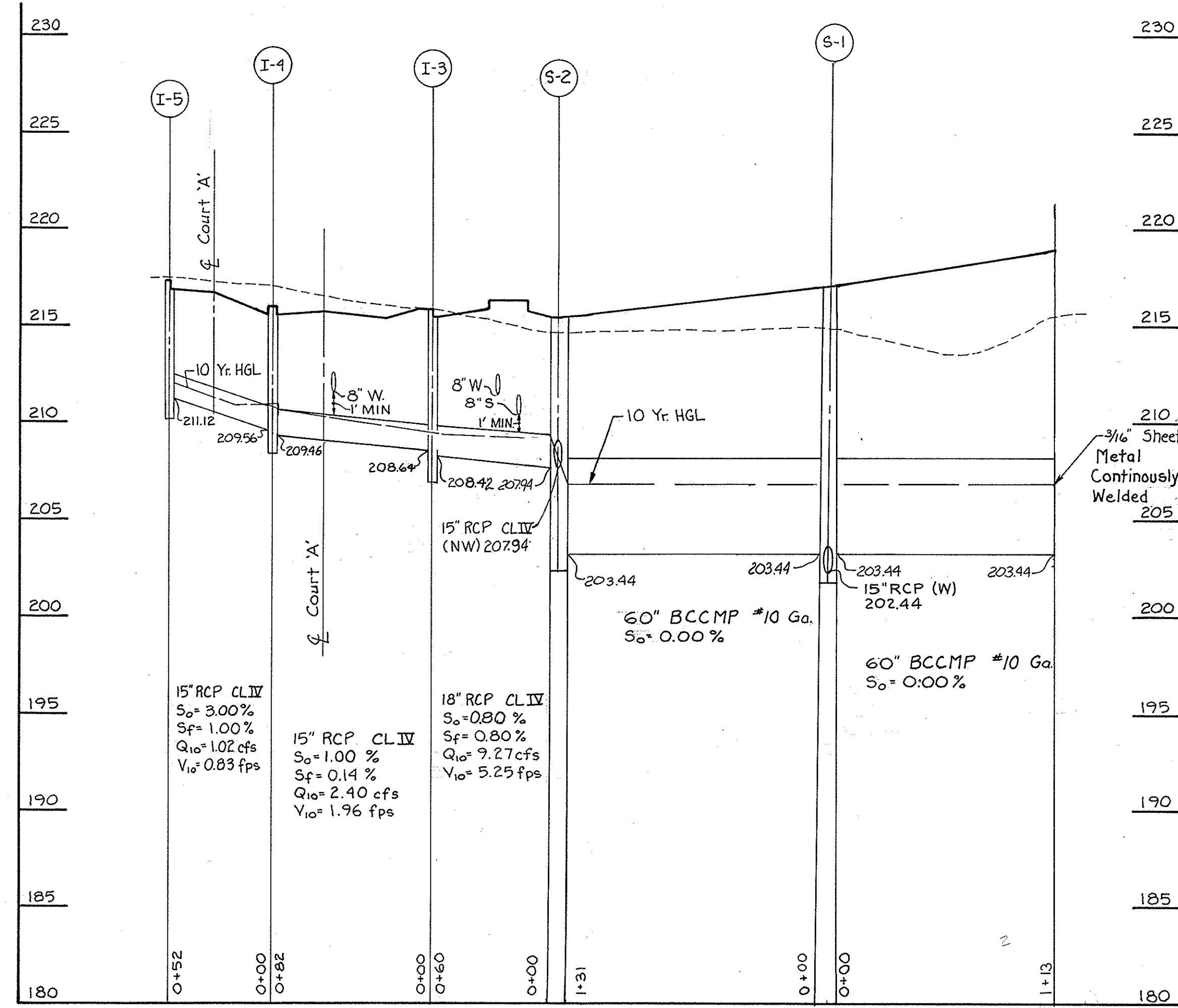
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature]
DIRECTOR DATE: 7/11/89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[Signature]
COUNTY HEALTH OFFICER DATE: 7-6-89

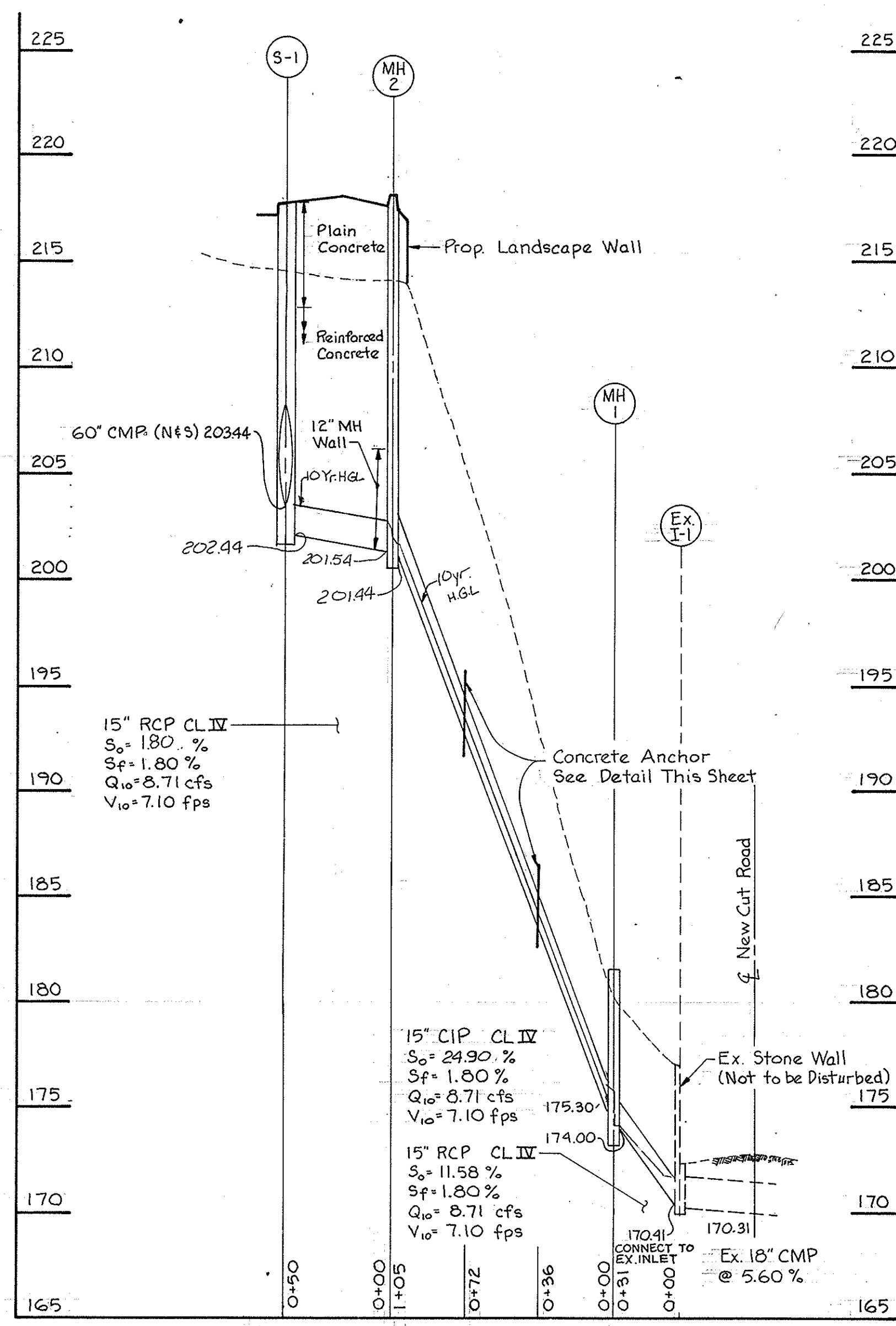
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature]
DIRECTOR DATE: 8/3/89

CHIEF, BUREAU OF ENGINEERING
[Signature]
DATE: 2-30-89

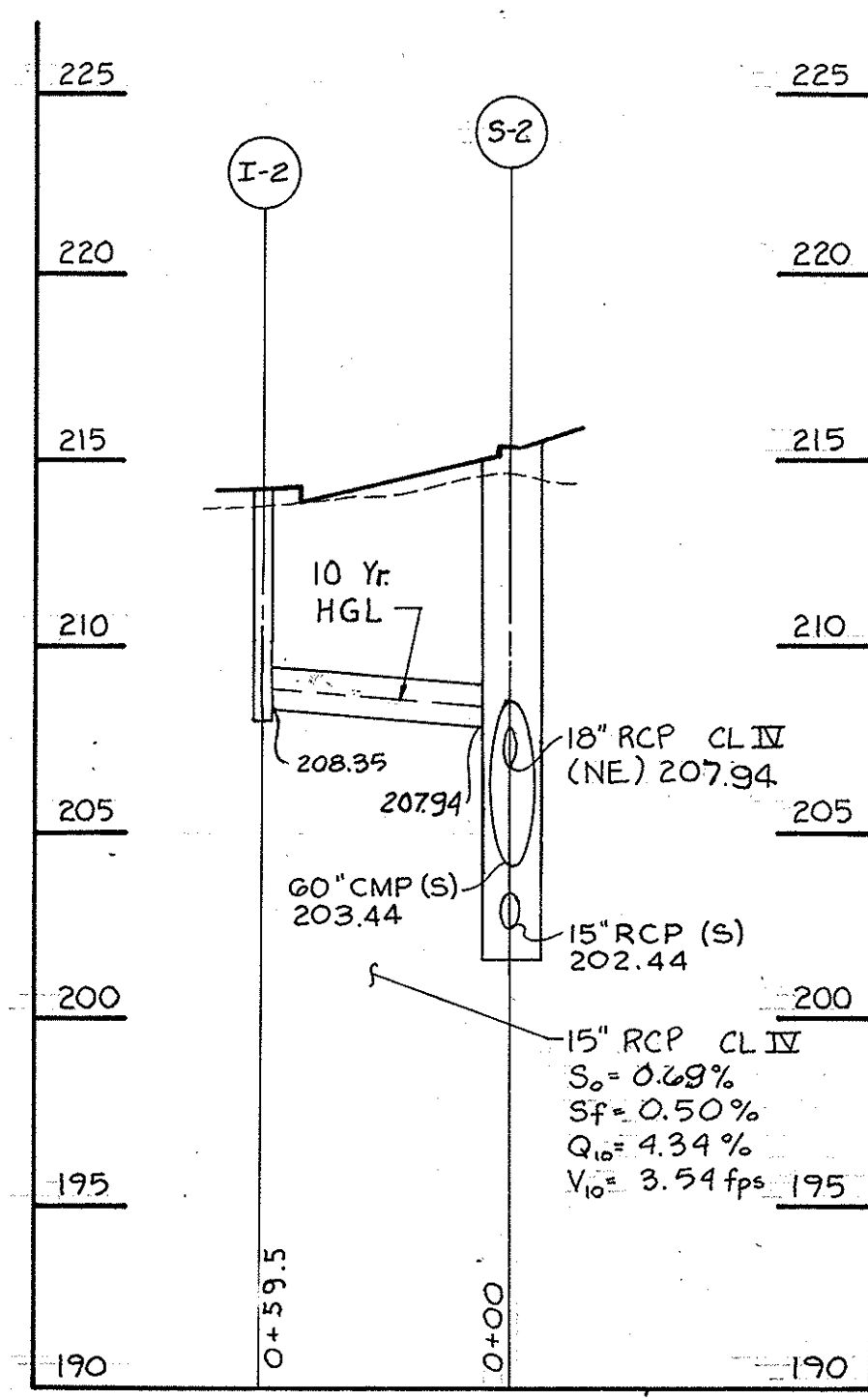
SECTION/AREA PARCEL NUMBER
PLAT NO. BLOCK NO. ZONE ELEC. DIST. CENSUS TR.



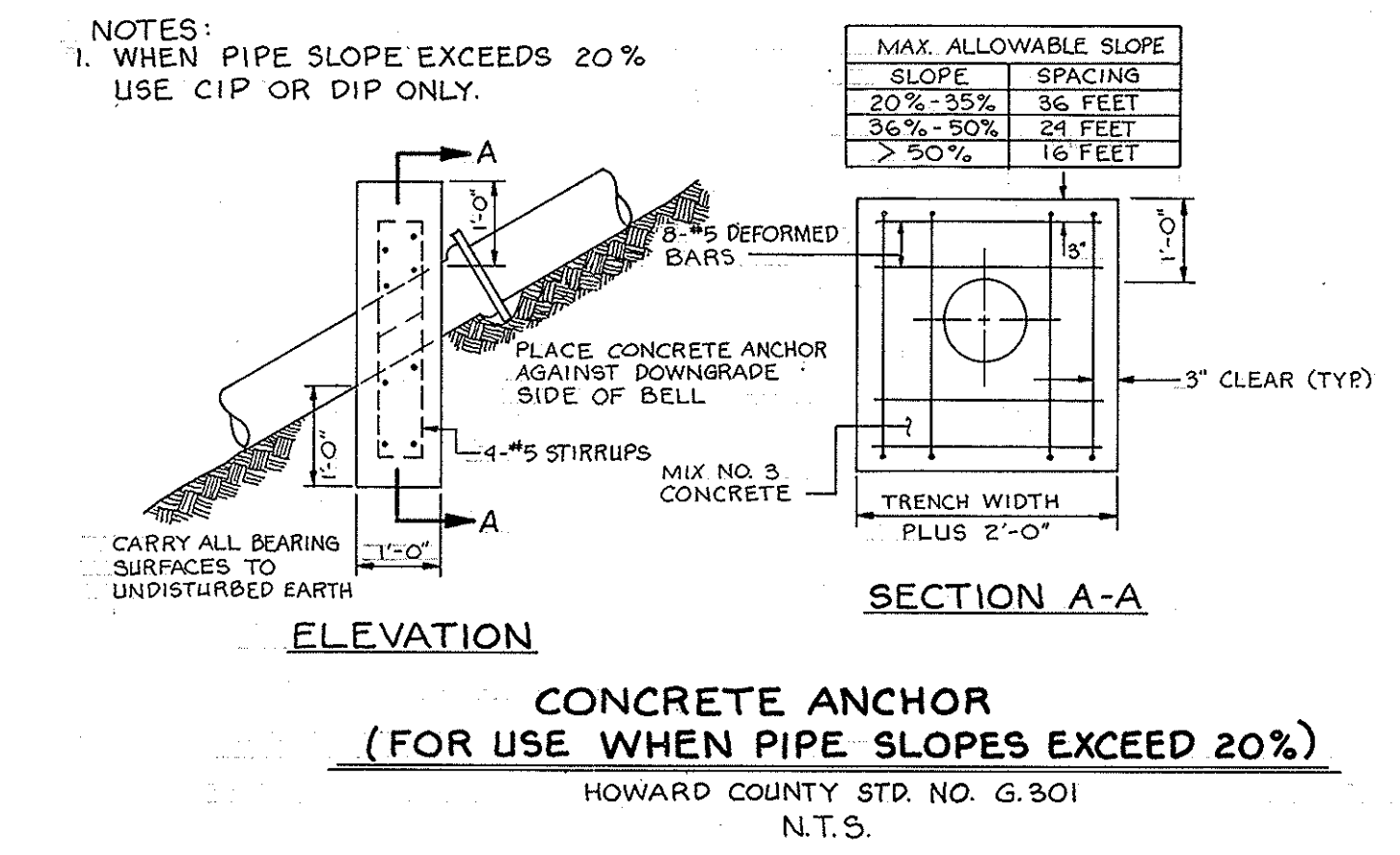
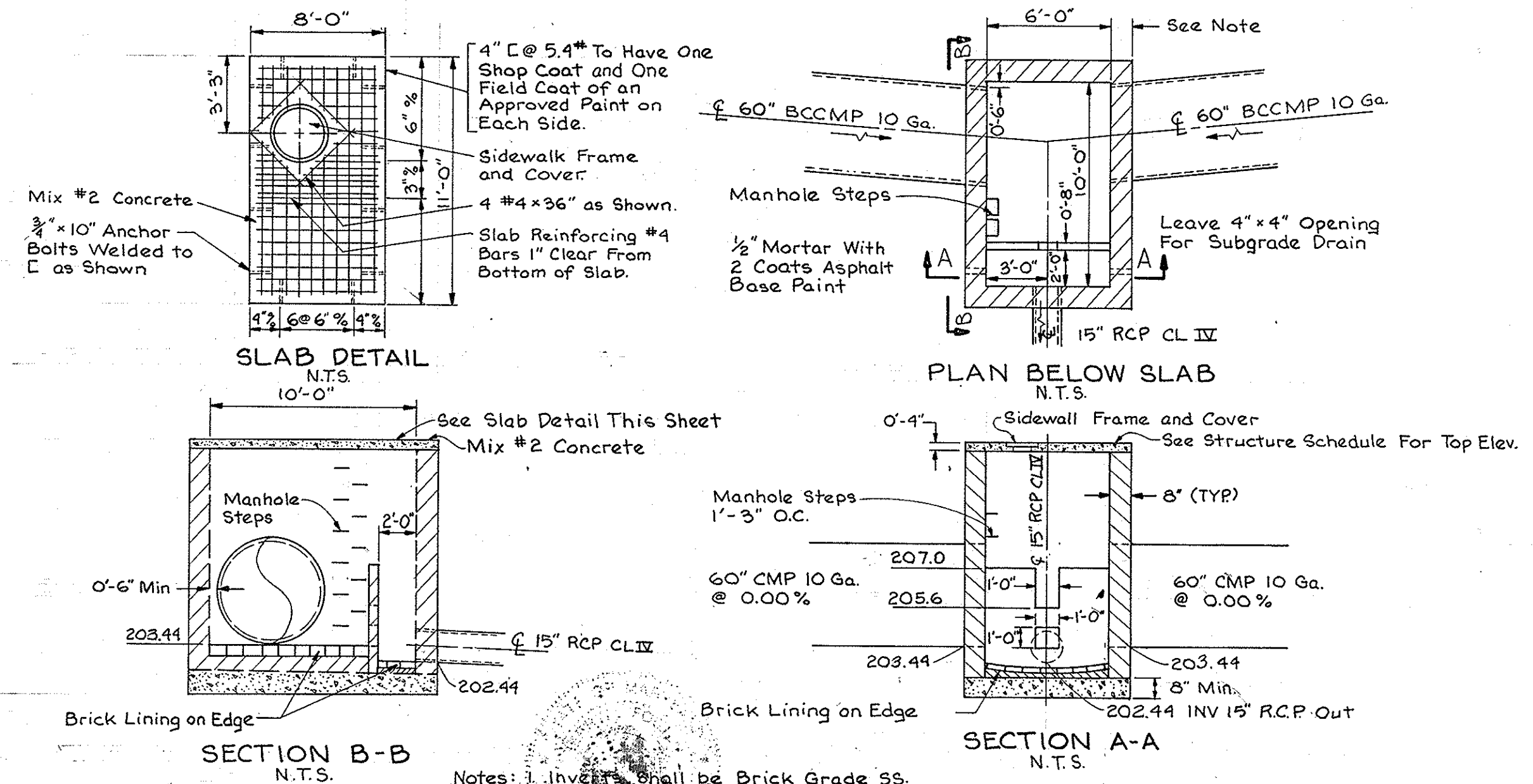
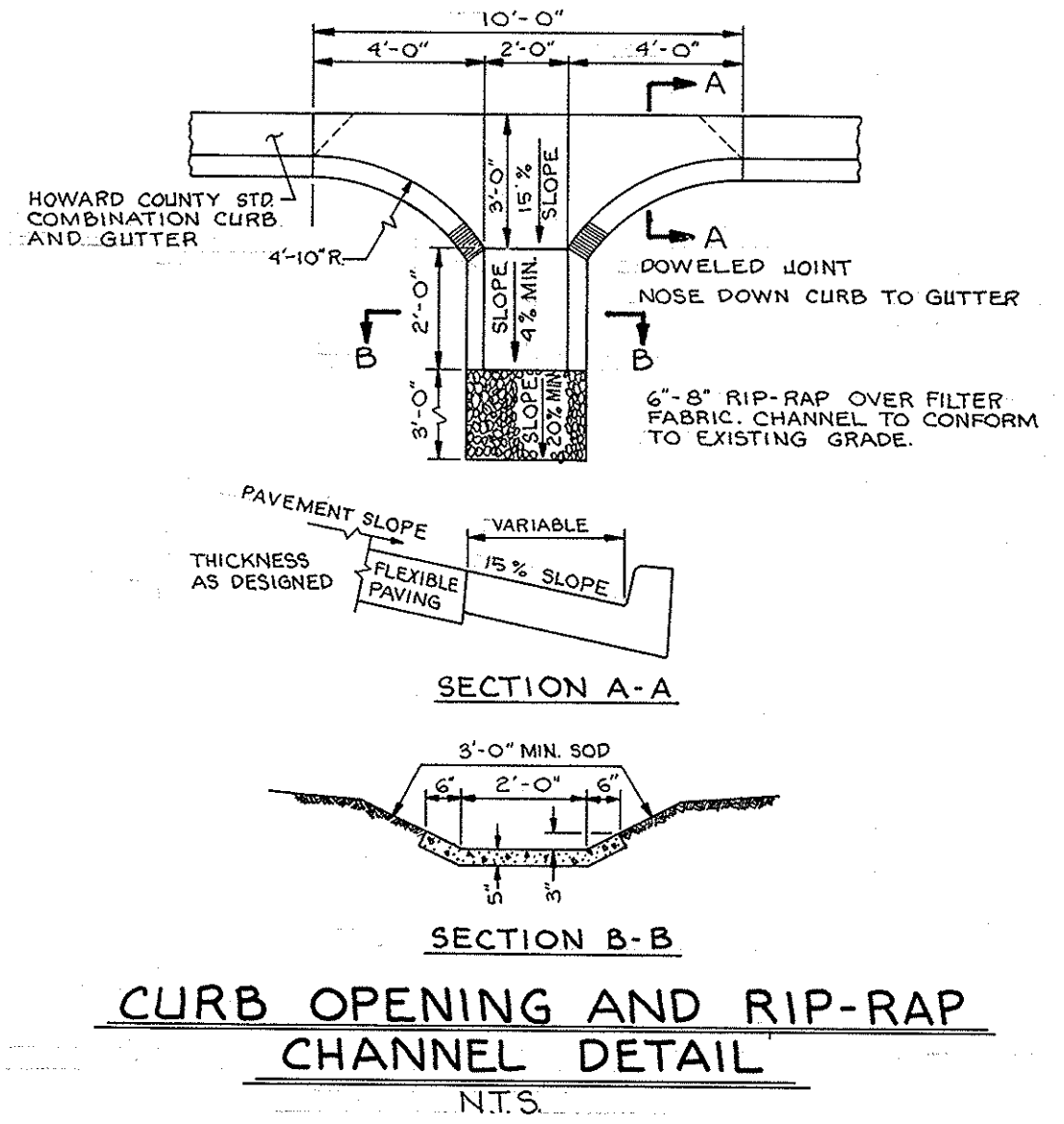
PROFILE
Scale: Vert: 1"=5', Horiz: 1"=50'



PROFILE
Scale: Vert: 1"=5', Horiz: 1"=50'



PROFILE
Scale: Vert: 1"=5' Horiz: 1"=50'



Structure	Type	Top Elev.	Location (Approx. Structure)	Remarks
I-1	-	-	New Cut Rd.	Ex. Inlet
I-2	A-5 Inlet Depressed	214.40	1+86 Court A 54' Rt.	Howard County Details SD 4.01, SD 4.81
I-3	A-10 Inlet Depressed	216.16	1+64 Court A 38' Lt.	Howard County Details SD 4.02, SD 4.81
I-4	A-5 Inlet Depressed	216.16	0+97 Court A 18' Rt.	Howard County Details SD 4.01, SD 4.81
I-5	A-5 Inlet W/Deflectors	217.10	0+54 Court A 14' Lt.	Howard County Details SD 4.01, SD 4.83
MH-1	Manhole	185.00	See Plan	Howard County Detail G 5.01
MH-2	Manhole	217.50	See Plan	Howard County Detail G 5.01
S-2	Water Quality Structure	215.96	1+98 Court A 19' Rt.	Howard County Detail W 3.26, W 3.27 & W 3.28
S-1	Control Structure	217.50	3+36 Court A 29' Rt.	See Detail This Sheet

STRUCTURE SCHEDULE

Note: Howard County Details SD 4.4, Precast Standard A-5 and A-10 Inlets, May Be Substituted for SD 4.01 and SD 4.02.

Notes: 1. Inlets shall be Brick Grade SS.
2. Walls shall be Mix #3 Concrete.
3. Walls shall be Grade MS ASTM C-32 Brick or Plain Concrete for the Top 5'-0" Below Slab to Bottom of Inlet Walls shall be 8" R.C. Reinforcing #4 @ 10" O.C. E.W. in E of Walls. Reinforcing Continuous in Corners. All Laps 1'-4".
4. Top 4" of Walls shall be Brick Masonry.

DETAIL STRUCTURE S-1 MODIFIED 'A-10' INLET
Ref: Howard County Detail SD 4.02

APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE: **7-14-89**

ENGINEER'S CERTIFICATE
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 REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.

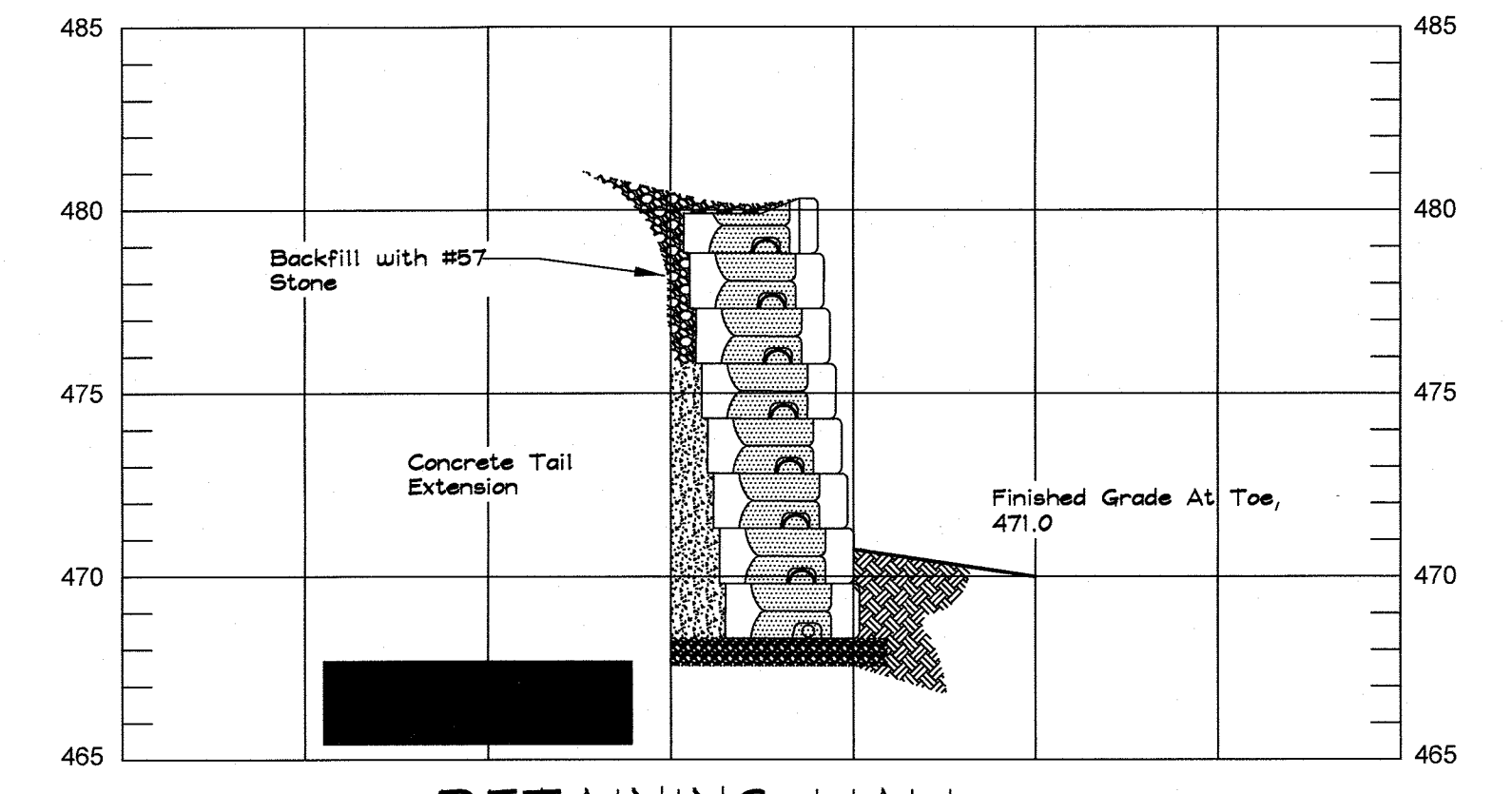
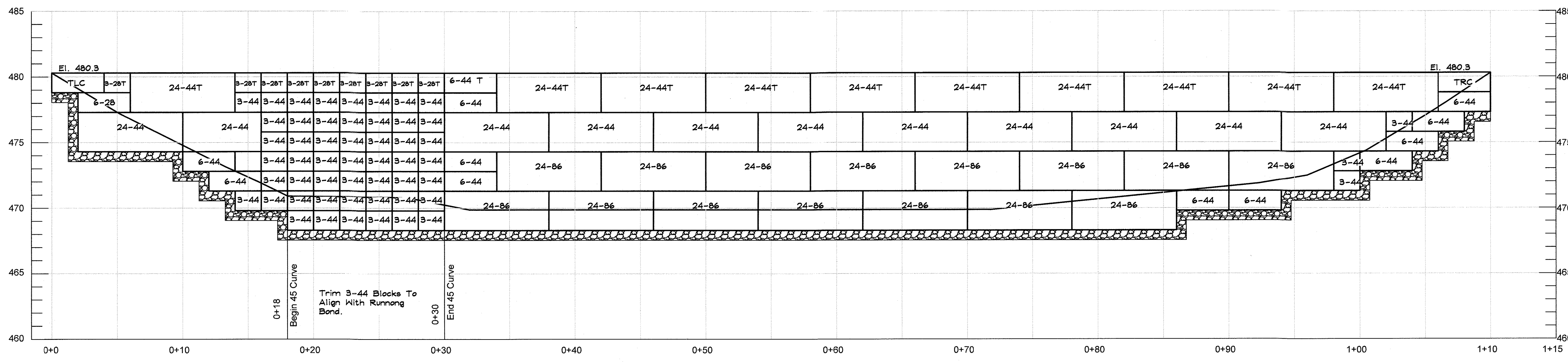
DEVELOPER'S CERTIFICATE
I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE
DATE
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED:
HOWARD SOIL CONSERVATION DISTRICT

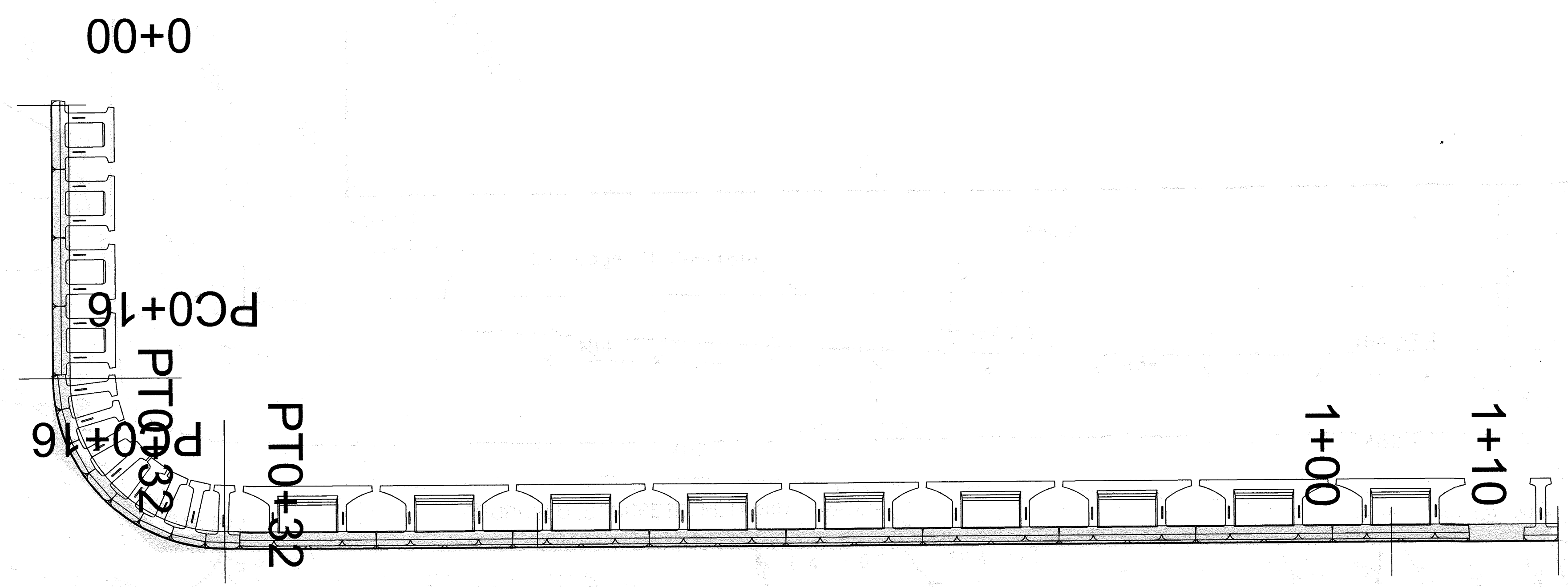
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
DIRECTOR
DATE: 9/1/89
APPROVED: [Signature] 3/1/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER
DATE: 9-6-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
DATE: 8/3/89
CHIEF, BUREAU OF ENGINEERS
DATE: 8-30-89

STORM DRAIN PROFILES & DETAILS
GREYSTONE
COLLEGE AT ST. PAUL TOWNHOUSES
REF. SDP 88-28
TAX MAP 25-A
SECOND ELECTION DISTRICT
SDP 89-159
PARCEL 295
HOWARD COUNTY, MD.
JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS - PLANNERS - SURVEYORS
8818 CENTRE PARK DRIVE
COLUMBIA, MARYLAND 21045
TELEPHONE (301) 740-5200
DESIGNED BY: K.B.C.
DRAWN BY: D.G.H.
CHECKED BY: R.H.V.
DATE: 2/89
SCALE: As Shown
W.O. NO. 44-88-008A
5 SHEET OF 12



RETAINING WALL SECTION at 0+18 tp 0+30
SCALE 1" = 5'



DATA SOURCES:
DETAIL WALL DESIGN BASED UPON AECOM PROVIDED SITE PLANS TITLED "IMBRICATED ROCK WALL DETAILS" PREPARED FOR THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. NO GEOTECHNICAL INFORMATION WAS AVAILABLE FOR DESIGN.

DDC
Development Design Consultants

Planners
Surveyors
Engineers
Landscape Architects

192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

OWNER:
Richard A. Jones
8440 Grove Angle Road
Ellicott City, MD 21043
301-465-0647

DEVELOPER:
Same as Owner

SITE ADDRESS:
4882 Montgomery Road
Ellicott City, MD 21043

SITE DEVELOPMENT PLAN - REVISED
RICHARD A. JONES PROPERTY
RETAINING WALL
PLAN & PROFILE

2nd. Election District		Howard County	
REVISIONS			
NO.	DESCRIPTION OF CHANGES	DRN.	REV. DATE

- HOWARD COUNTY NOTES:
- NO TREES SHALL BE PLANTED WITHIN 10 FEET OF THE TOP OF THE RETAINING WALL.
 - RETAINING WALLS SHALL ONLY BE CONSTRUCTED UNDER THE OBSERVATION OF A REGISTERED PROFESSIONAL ENGINEER AND A (INCEP, WACEL, OR EQUIVALENT) CERTIFIED SOILS TECHNICIAN.
 - ONE SOIL BORING SHALL BE REQUIRED EVERY ONE HUNDRED FEET ALONG THE ENTIRE LENGTH OF THE WALL. COPIES OF ALL BORING REPORTS SHALL BE PROVIDED TO THE HOWARD COUNTY INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
 - THE REQUIRED BEARING PRESSURE BENEATH THE WALL SYSTEM SHALL BE VERIFIED IN THE FIELD BY A CERTIFIED SOILS TECHNICIAN. TESTING DOCUMENTATION MUST BE PROVIDED TO THE HOWARD COUNTY INSPECTOR PRIOR TO START OF CONSTRUCTION. THE REQUIRED BEARING TEST SHALL BE THE DYNAMIC CONE PENETROMETER TEST ASTM D1586.
 - THE SUITABILITY OF FILL MATERIAL SHALL BE CONFIRMED BY THE ON-SITE SOILS TECHNICIAN. EACH 4" LIFT MUST BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY AND THE TESTING REPORT SHALL BE MADE AVAILABLE TO THE HOWARD COUNTY INSPECTOR UPON COMPLETION OF CONSTRUCTION.
 - WALLS SHALL NOT BE CONSTRUCTED ON UNCERTIFIED FILL MATERIALS.
 - WALLS SHALL NOT BE CONSTRUCTED WITHIN A HOWARD COUNTY RIGHT-OF-WAY OR EASEMENT.

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 21998, EXPIRATION DATE: JUNE 6, 2020

11/14/2019
DATE

W. RICHARD DEMARIO
PROFESSIONAL ENGINEER NO. 21998

ENGINEER'S CERTIFICATE

"I certify that this plan for sediment and erosion 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."

W. Jones
Signature of Engineer (print name below signature) 11/16/19
Date

DEVELOPER'S CERTIFICATE

"We hereby certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attention at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

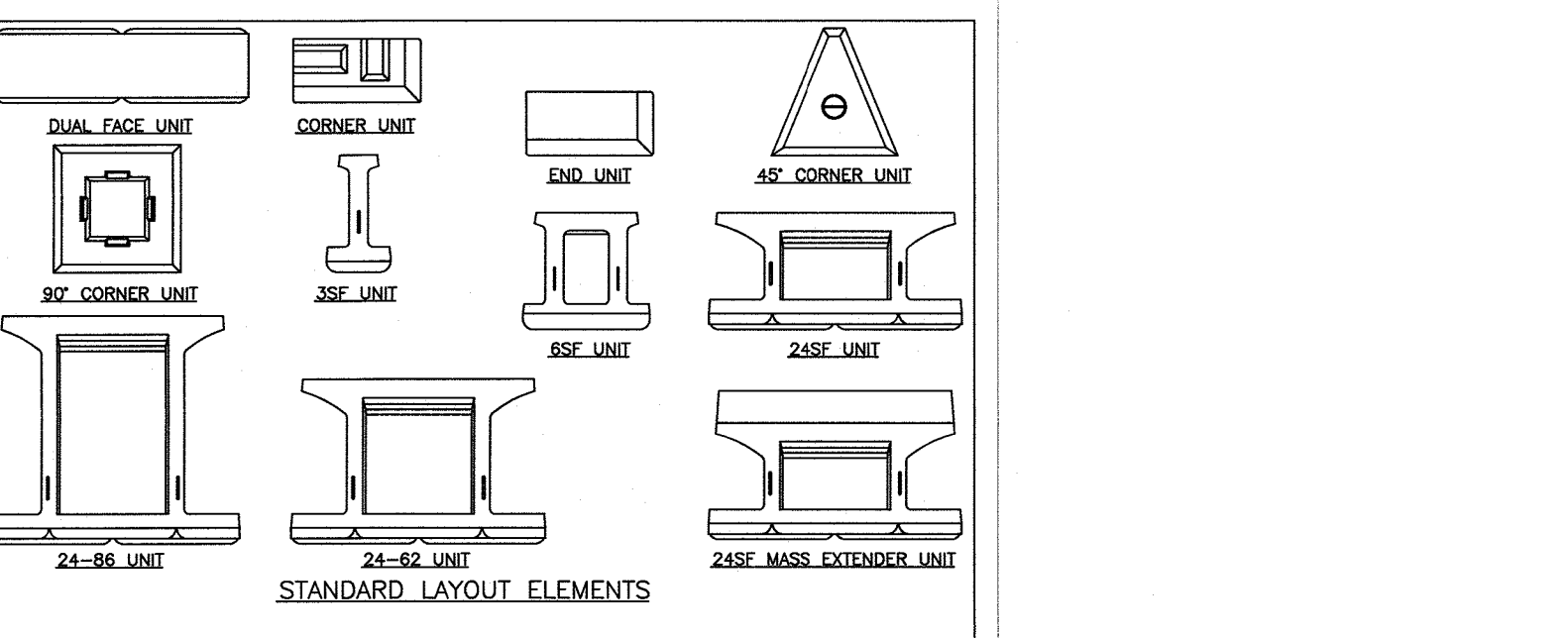
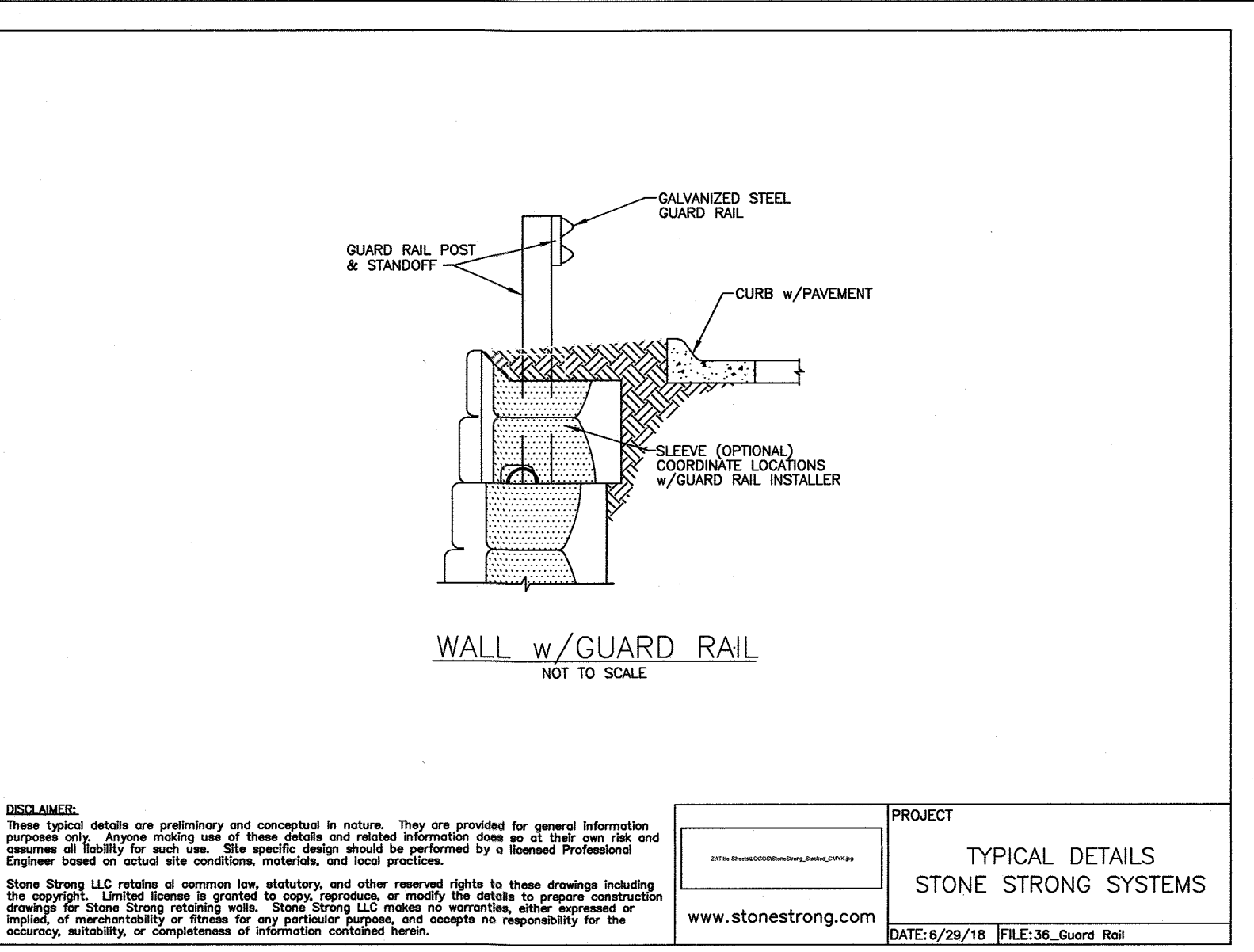
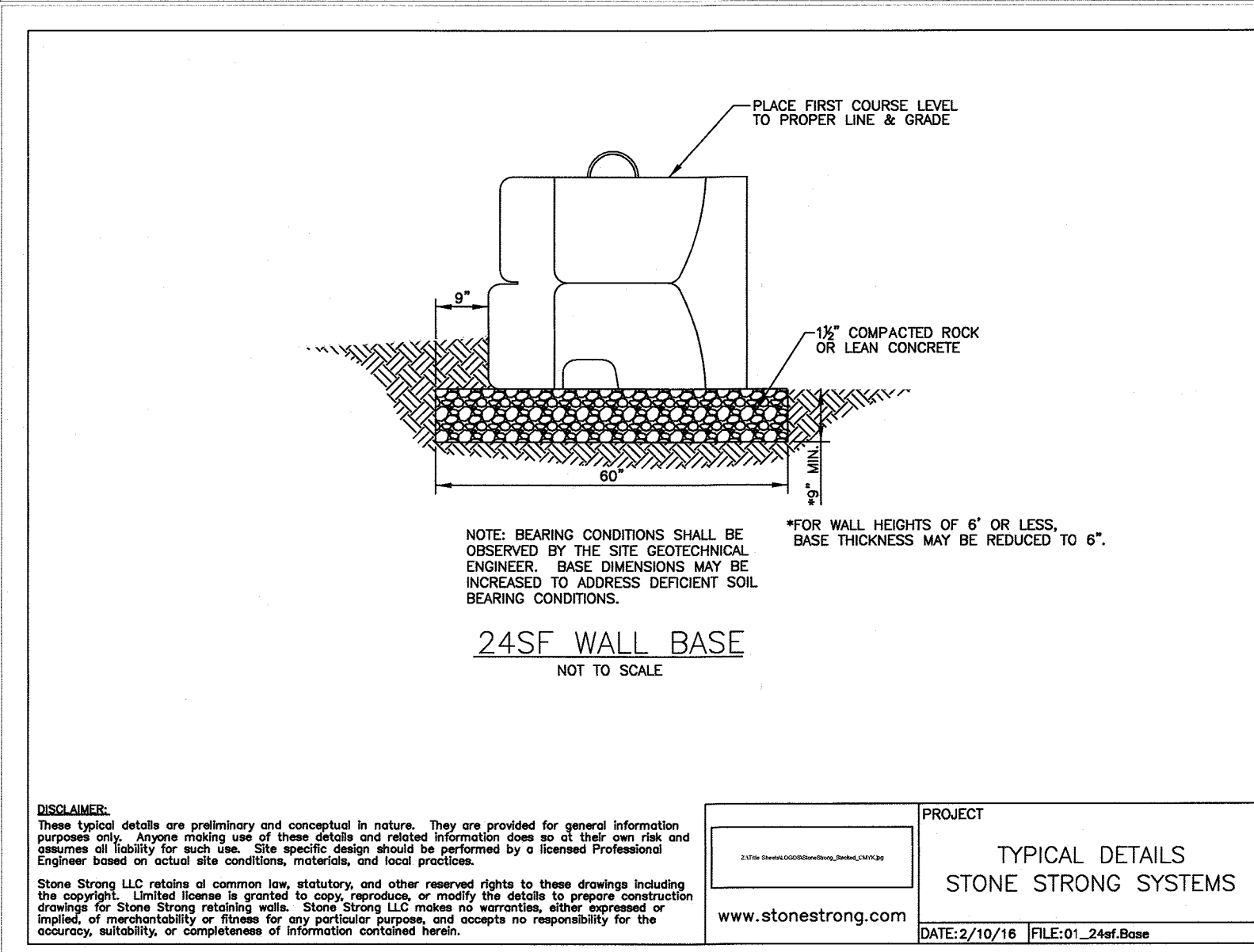
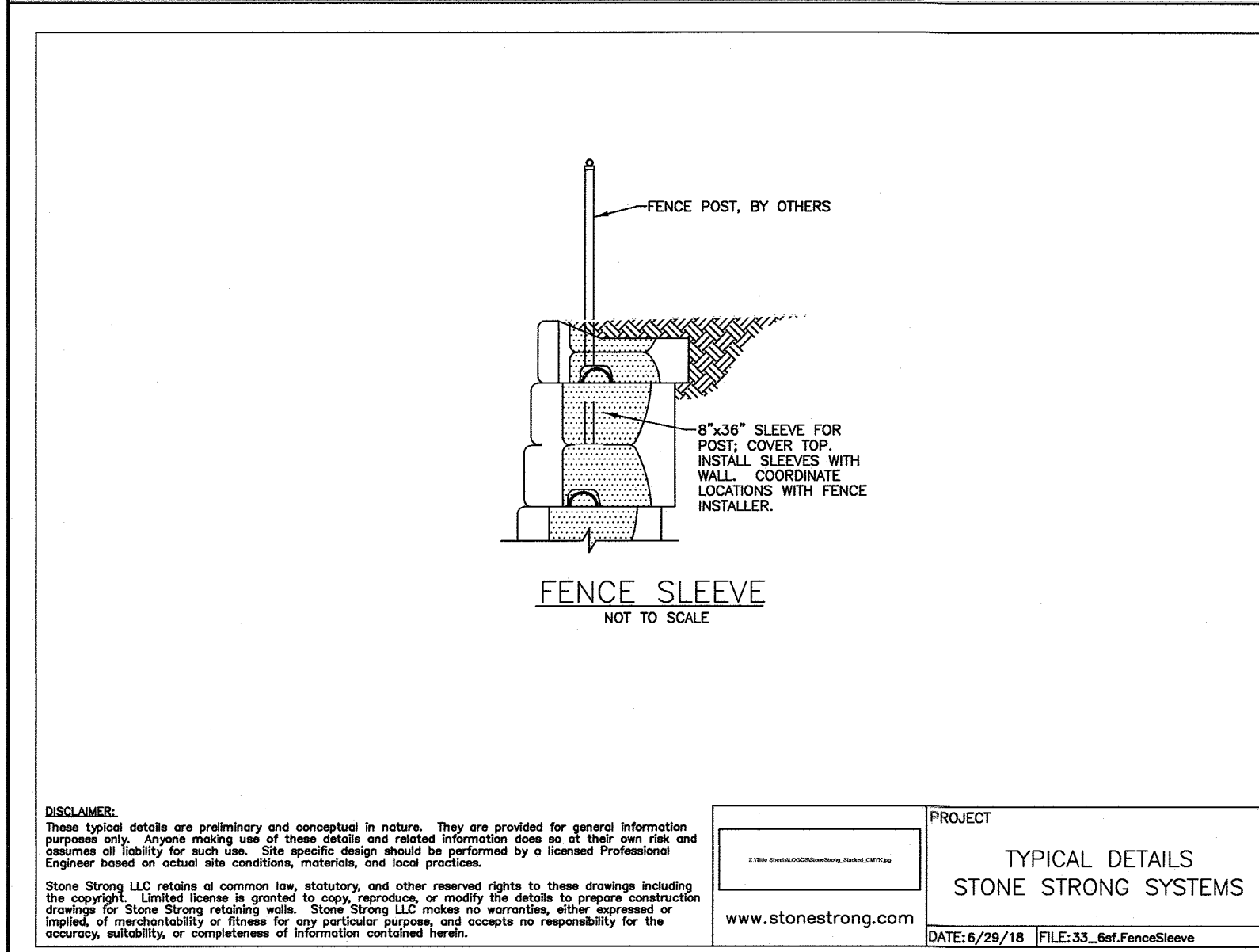
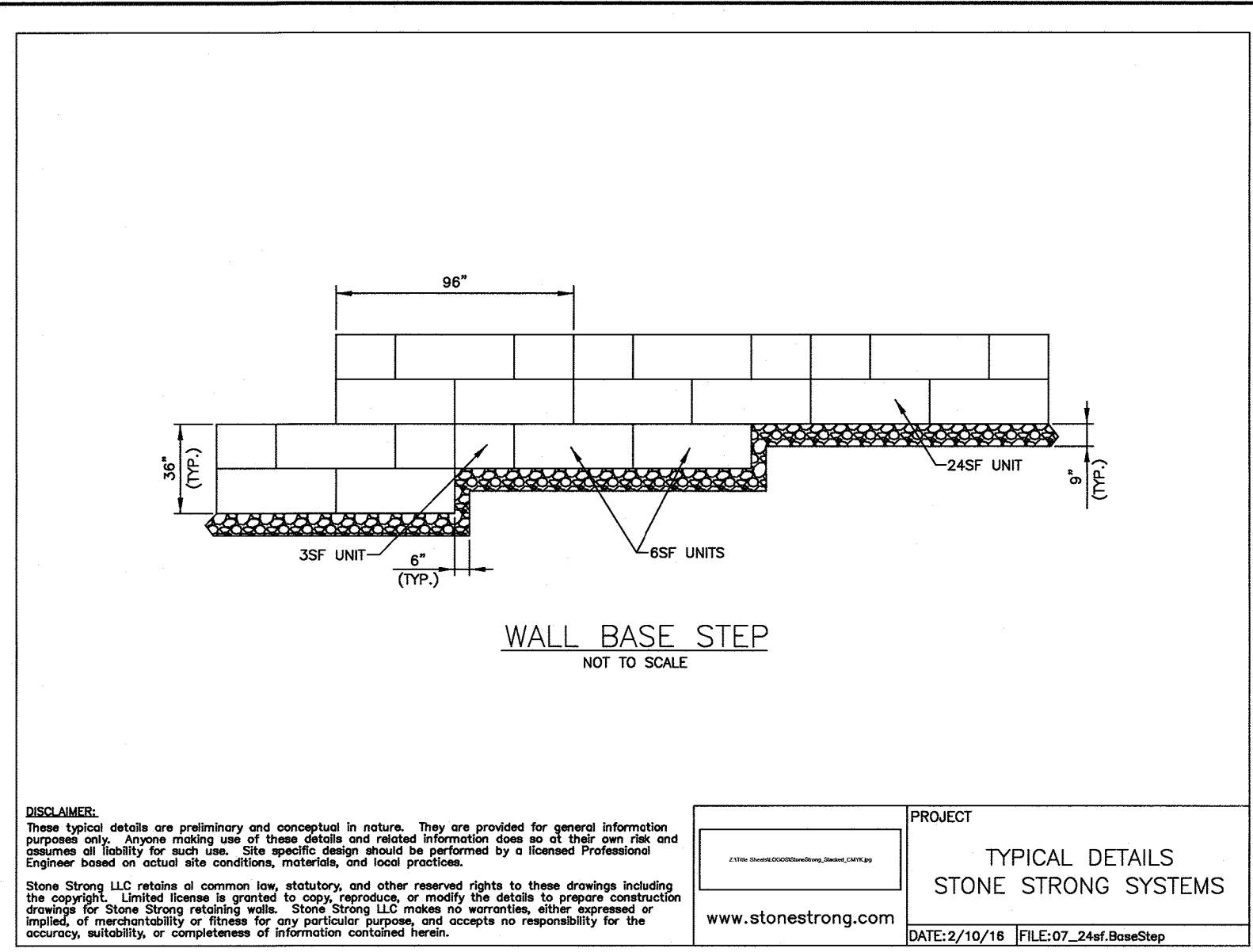
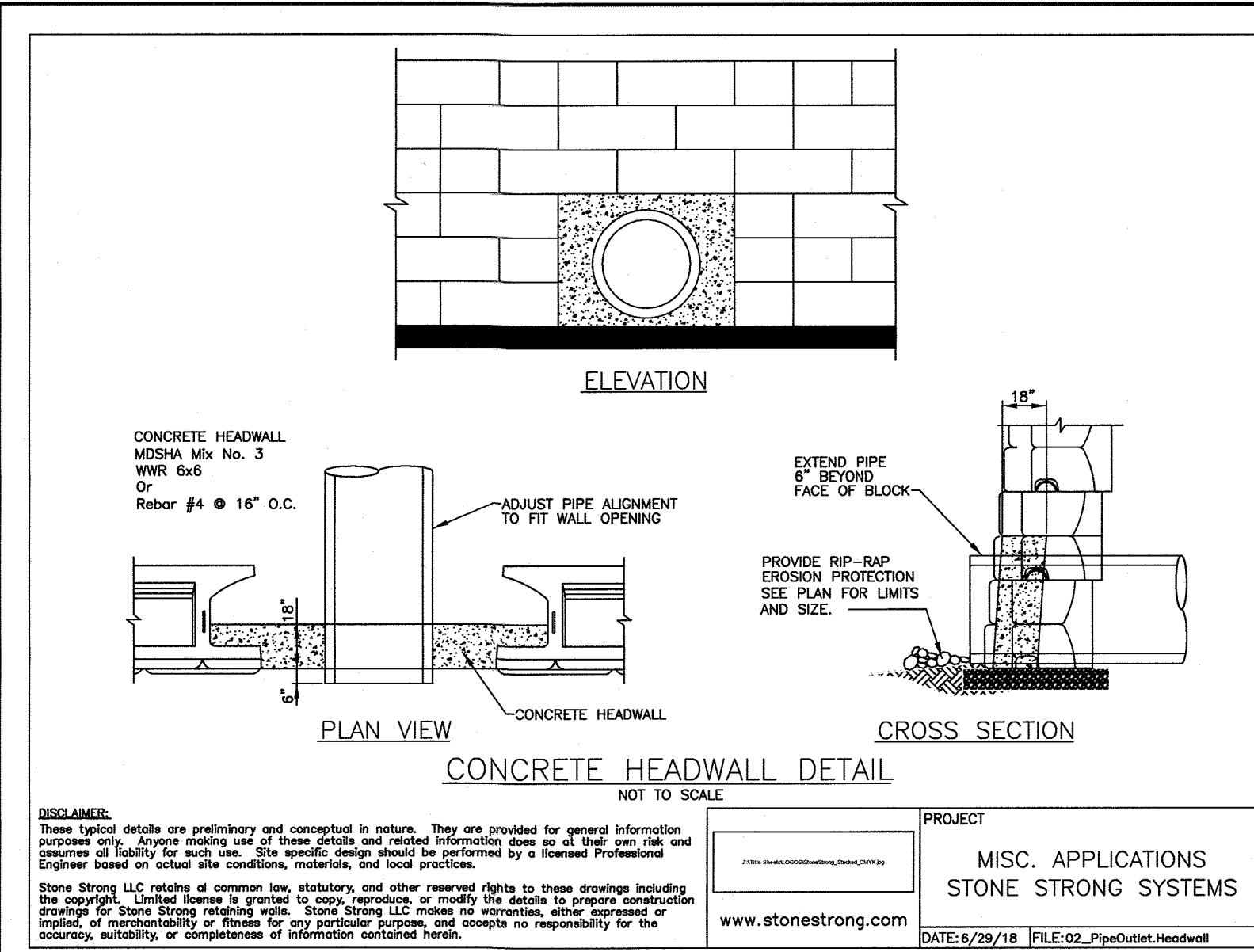
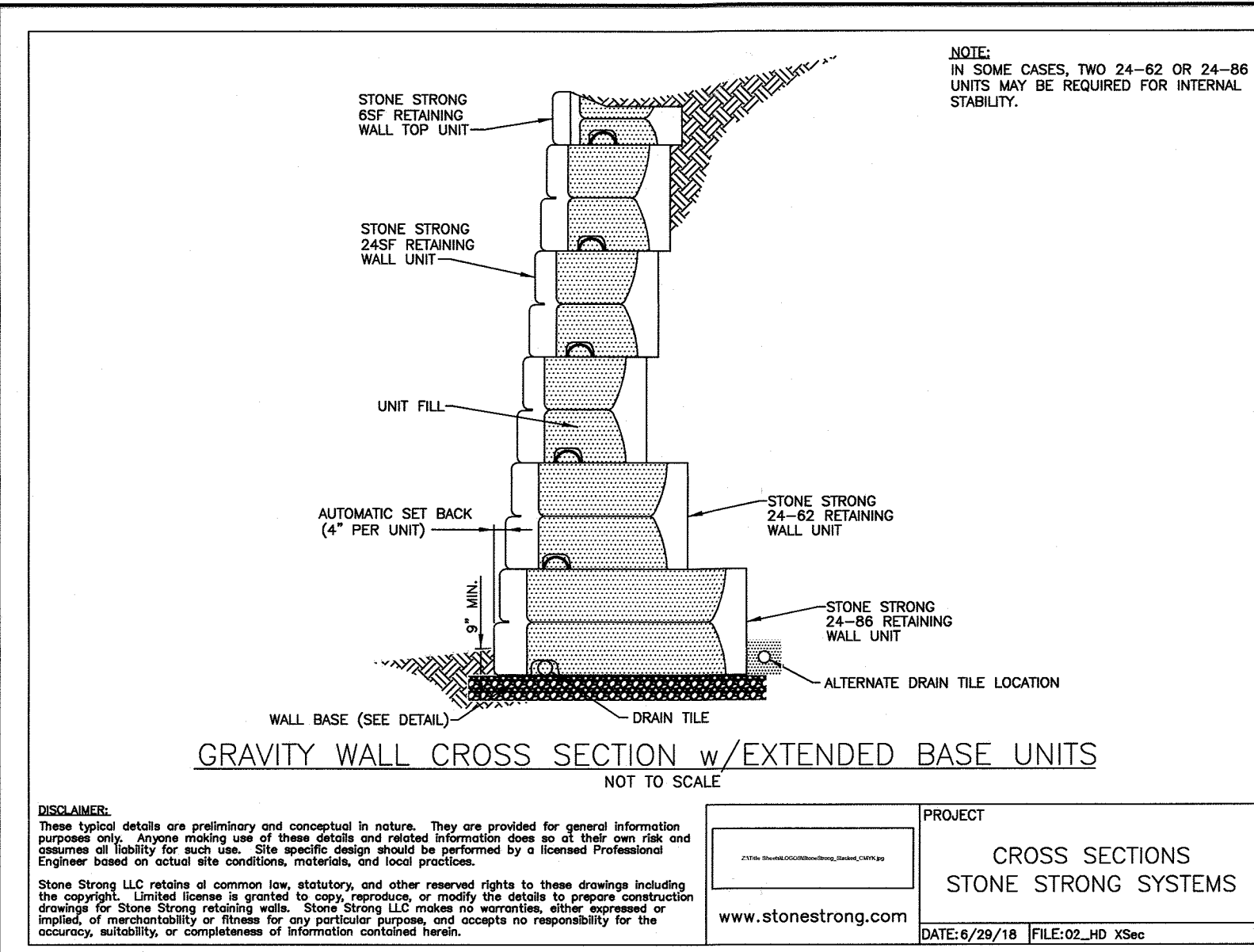
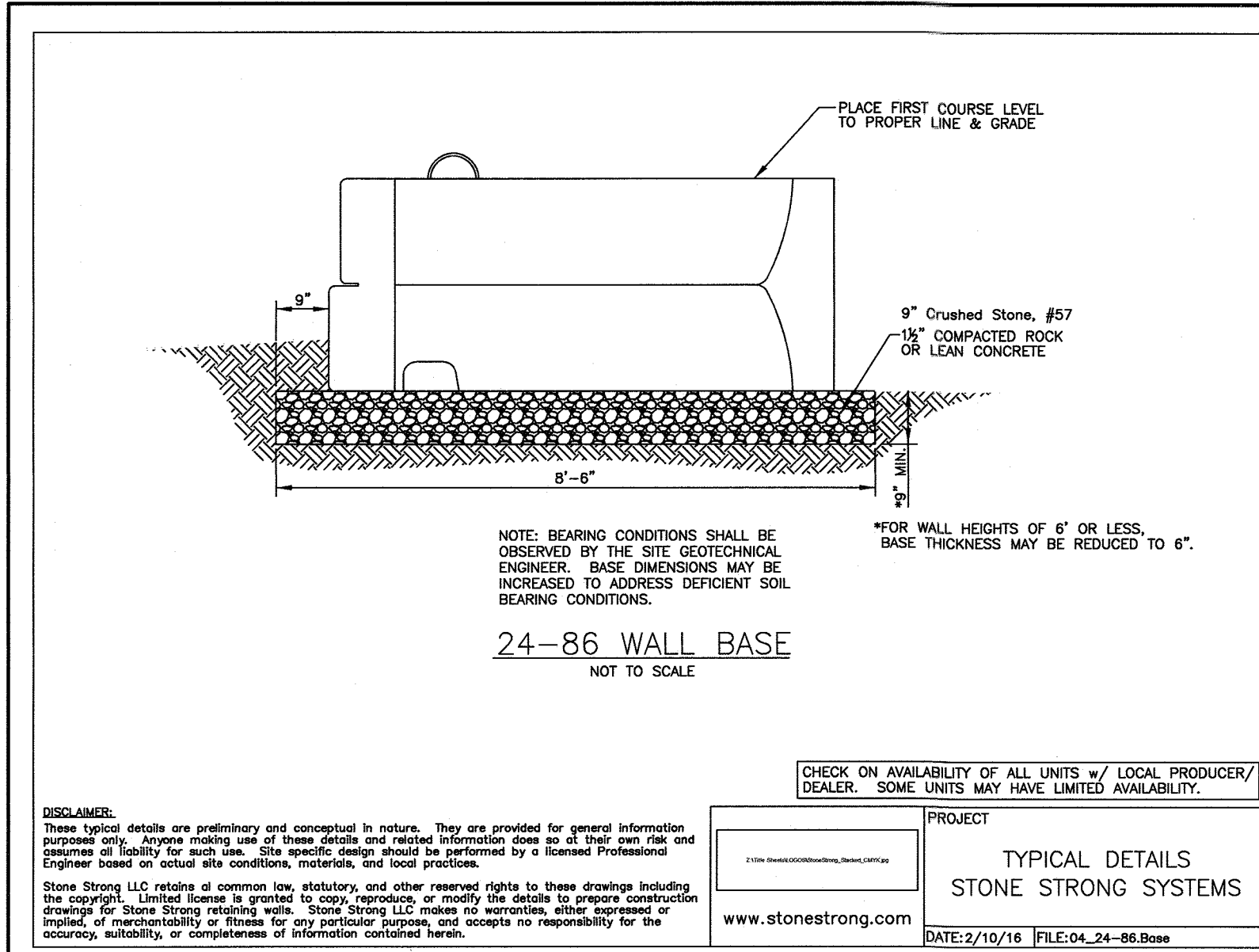
Signature of Developer (print name below signature) _____
Date _____

APPROVED: DEPARTMENT OF PLANNING AND ZONING

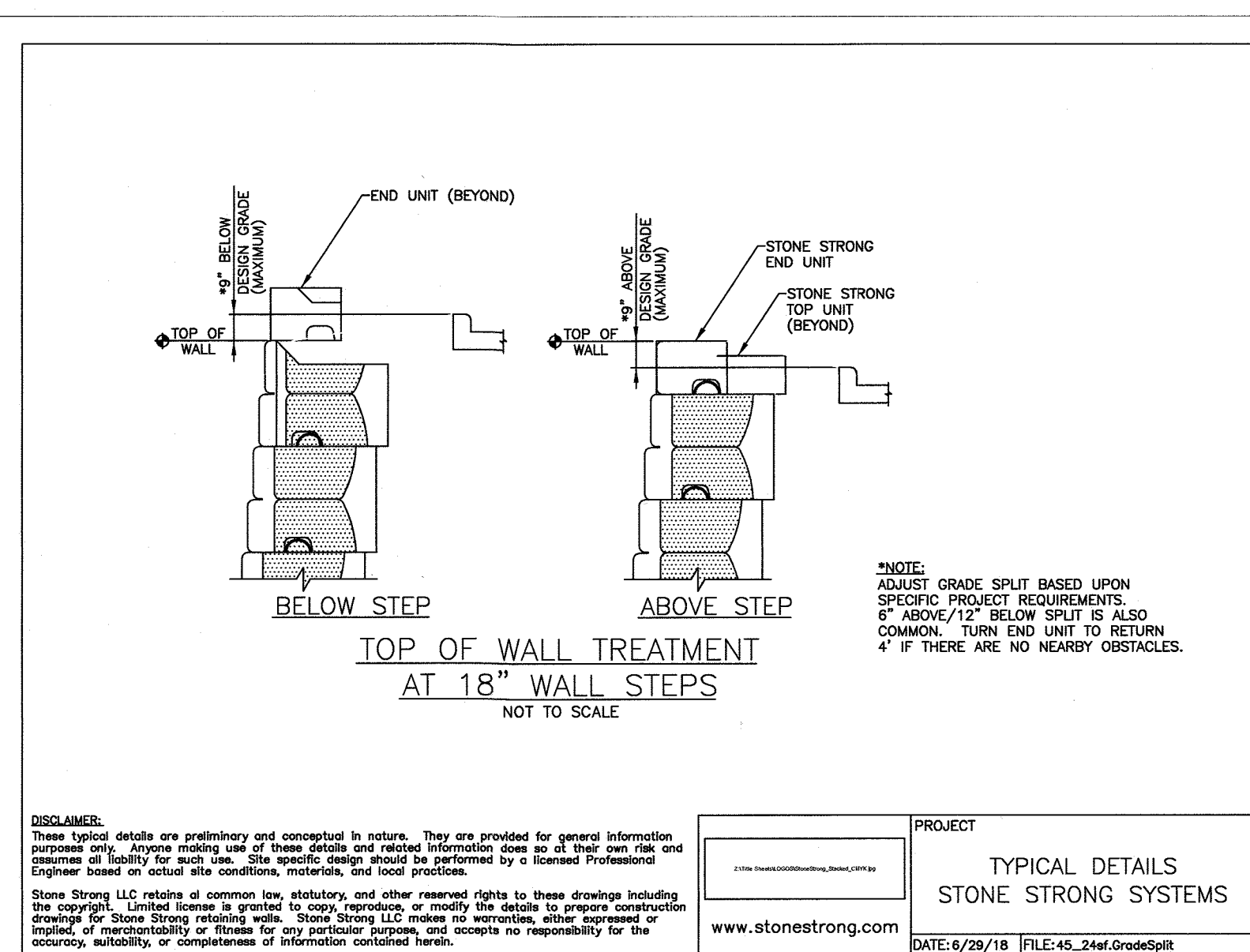
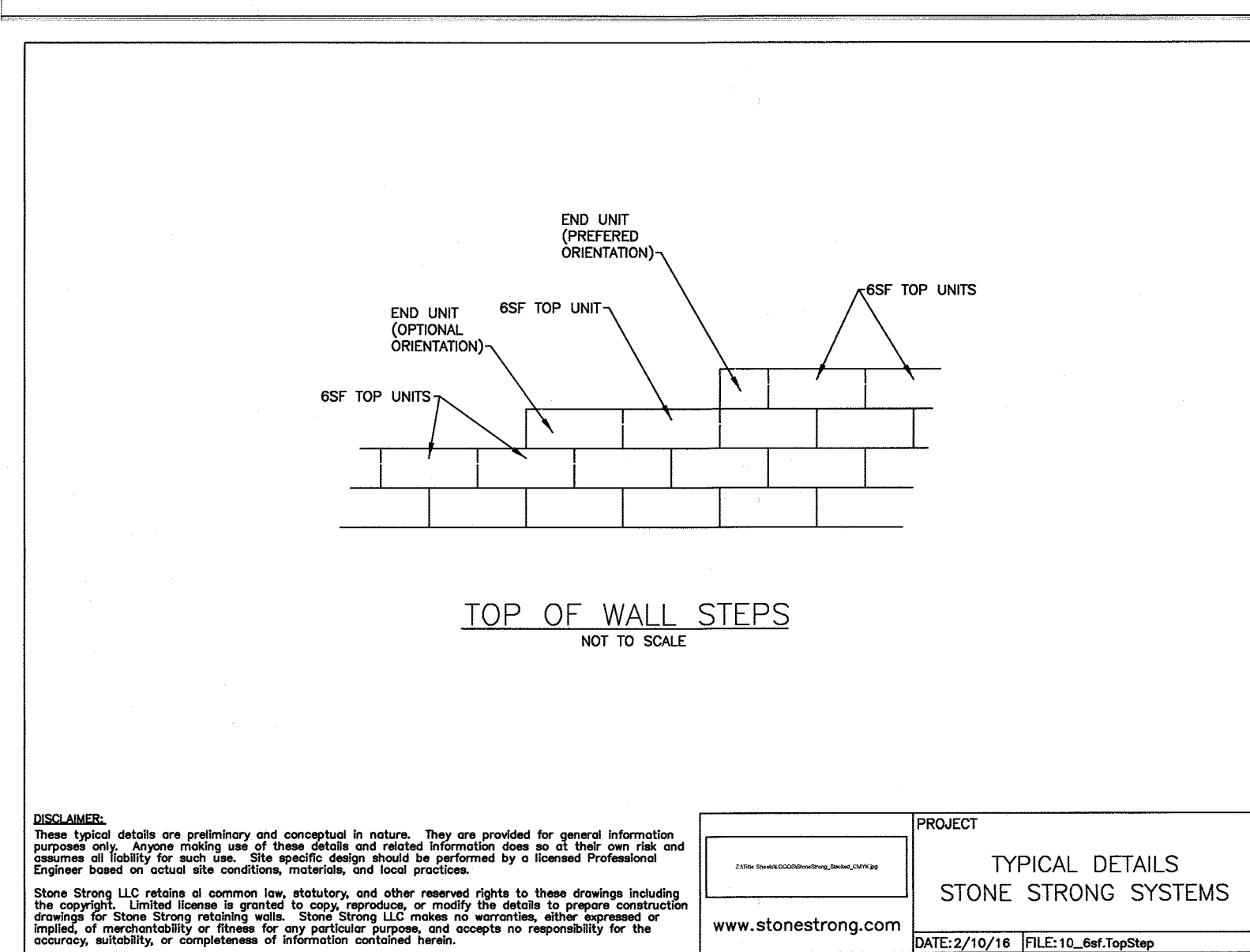
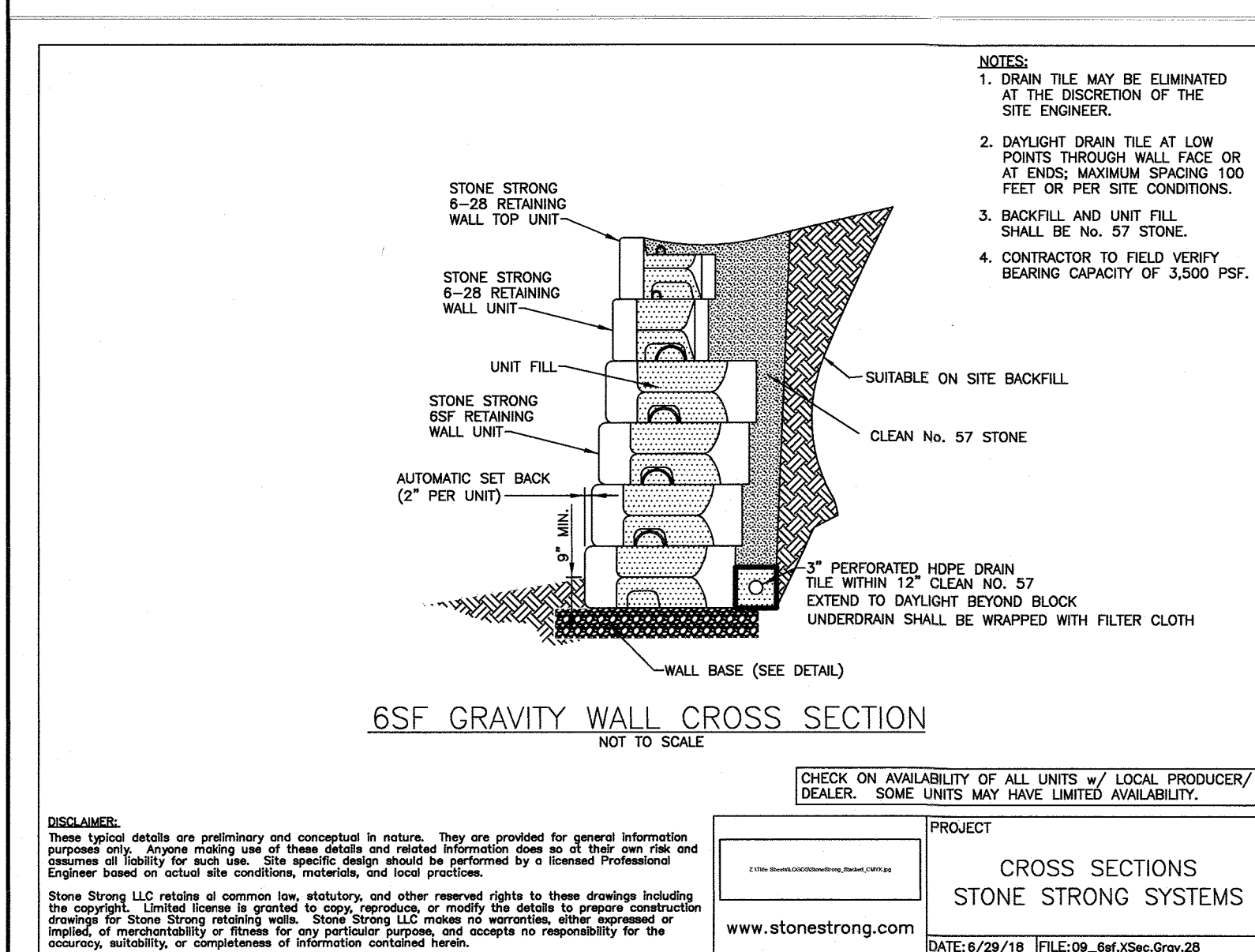
[Signature] 12-16-19
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 12/26/19
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 12-24-19
DIRECTOR DATE



DATA SOURCES:
DETAIL WALL DESIGN BASED UPON AECOM PROVIDED SITE PLANS TITLED "IMBRICATED ROCK WALL DETAILS" PREPARED FOR THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. NO GEOTECHNICAL INFORMATION WAS AVAILABLE FOR DESIGN.



Planners
Surveyors
Engineers
Landscape Architects

192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

OWNER: Richard A. Jones
8440 Grove Angle Road
Ellicott City, MD 21043
301-465-0847

DEVELOPER: Same as Owner

SITE ADDRESS: 4882 Montgomery Road
Ellicott City, MD 21043

SITE DEVELOPMENT PLAN - REVISED
RICHARD A. JONES PROPERTY
RETAINING WALL DETAILS

2nd Election District
Howard County

APPROVED: DEPARTMENT OF PLANNING AND ZONING

12-16-19
12/20/19
12-24-19

DATE
DATE
DATE

DEVELOPER'S CERTIFICATE

"I/we hereby certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Environment Approved Training Program for the Control of Erosion before beginning the project. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

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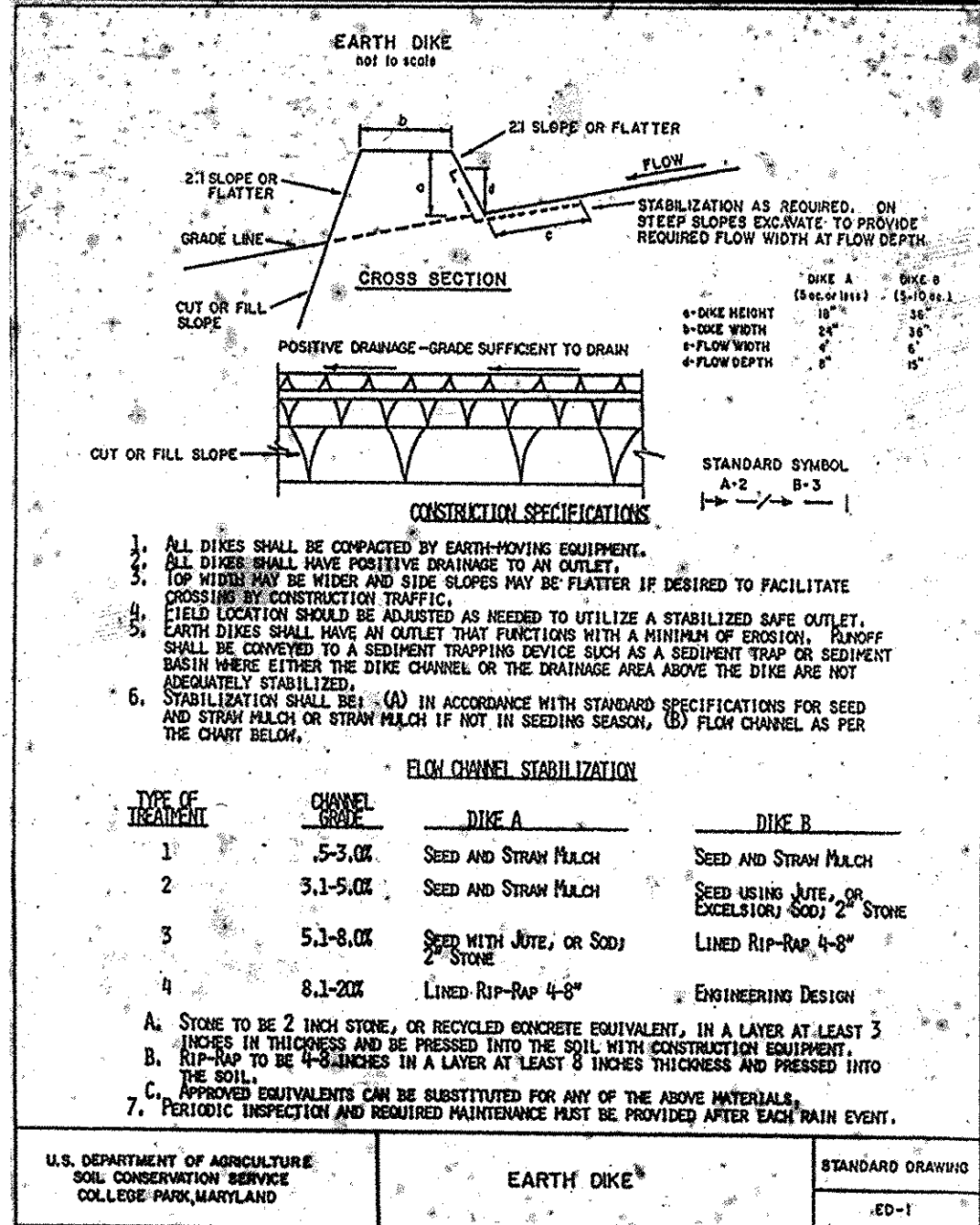
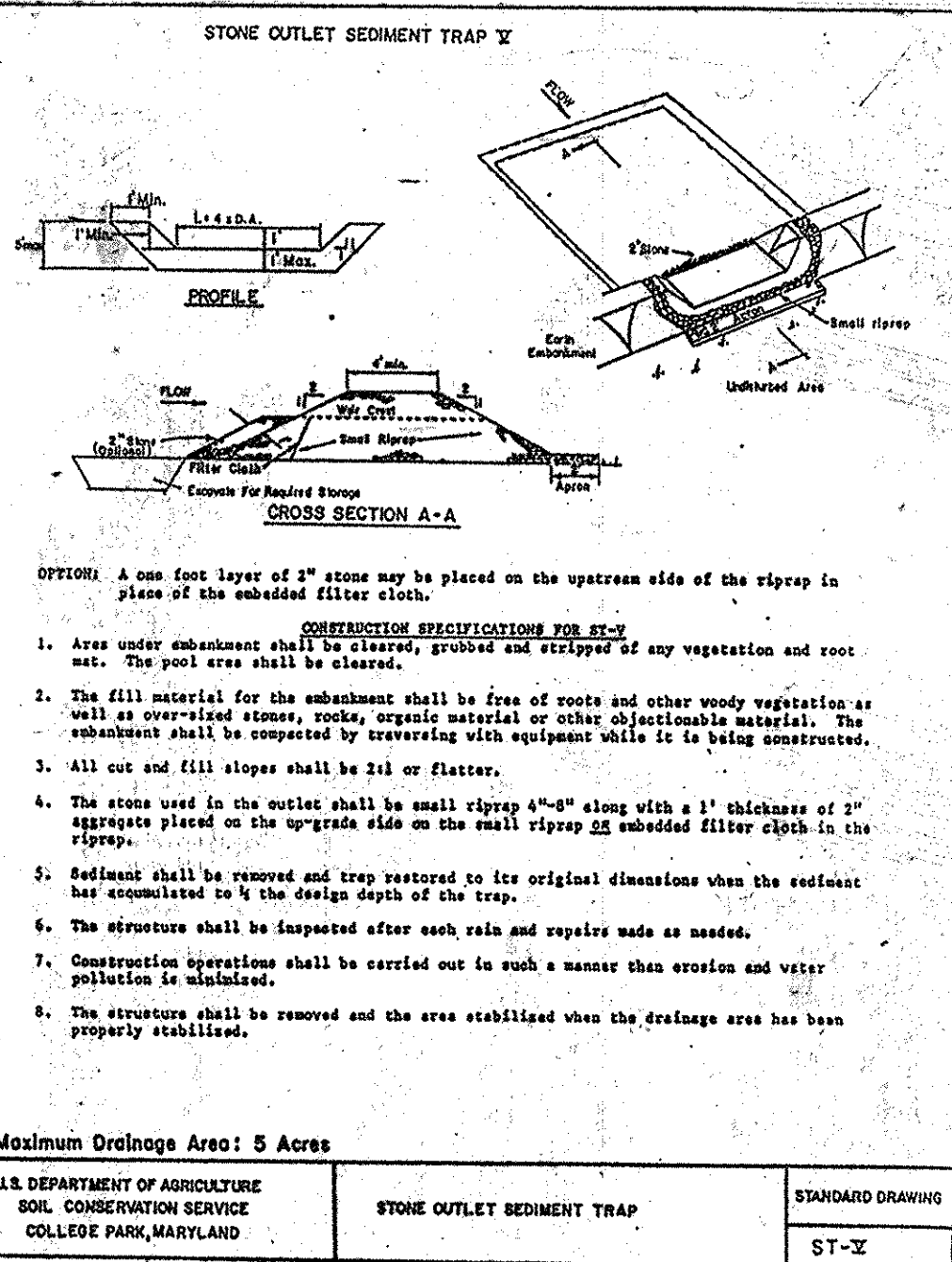
LICENSE NO. 21998 EXPIRATION DATE: JUNE 6, 2020

11/14/2019
DATE

W. RICHARD DEMARIO
PROFESSIONAL ENGINEER NO. 21998

NO.	DESCRIPTION OF CHANGES	DRN	REV	DATE
CO. FILE #	SDP-87-159	DES. BY:	WRD	
TAX ACC. #		DRN. BY:	TPM	
TAX MAP:	31	CHK. BY:	WRD	
BLOCK / GRID:	7	DATE:	11/14/2019	
PARCEL #:	36	DDC JOB#:	17041.36	
ZONE / USE:	B1 & R20	SHEET NUMBER:		
DWG. SCALE:	AS SHOWN		7 of 8	

SDP-87-159



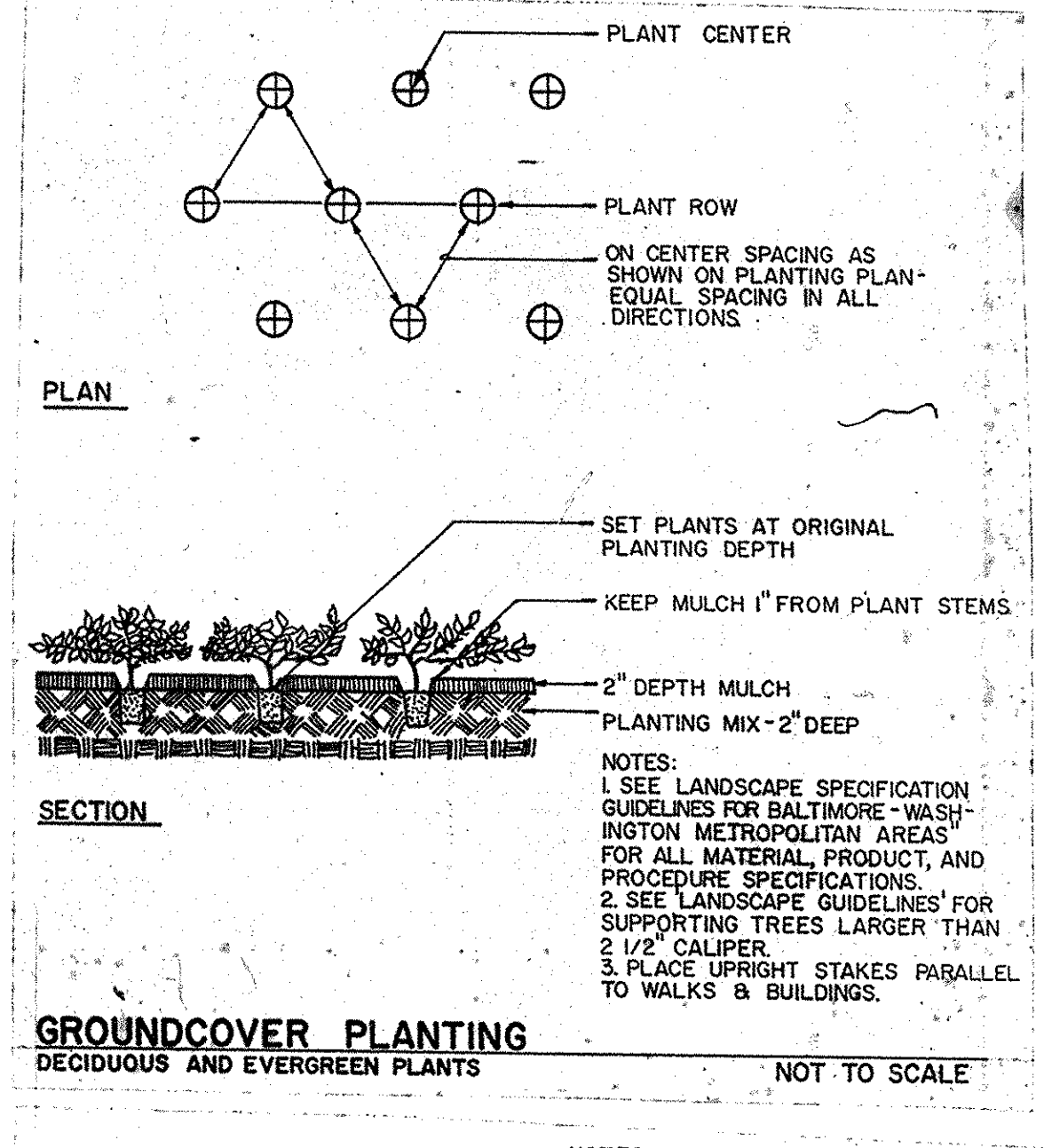
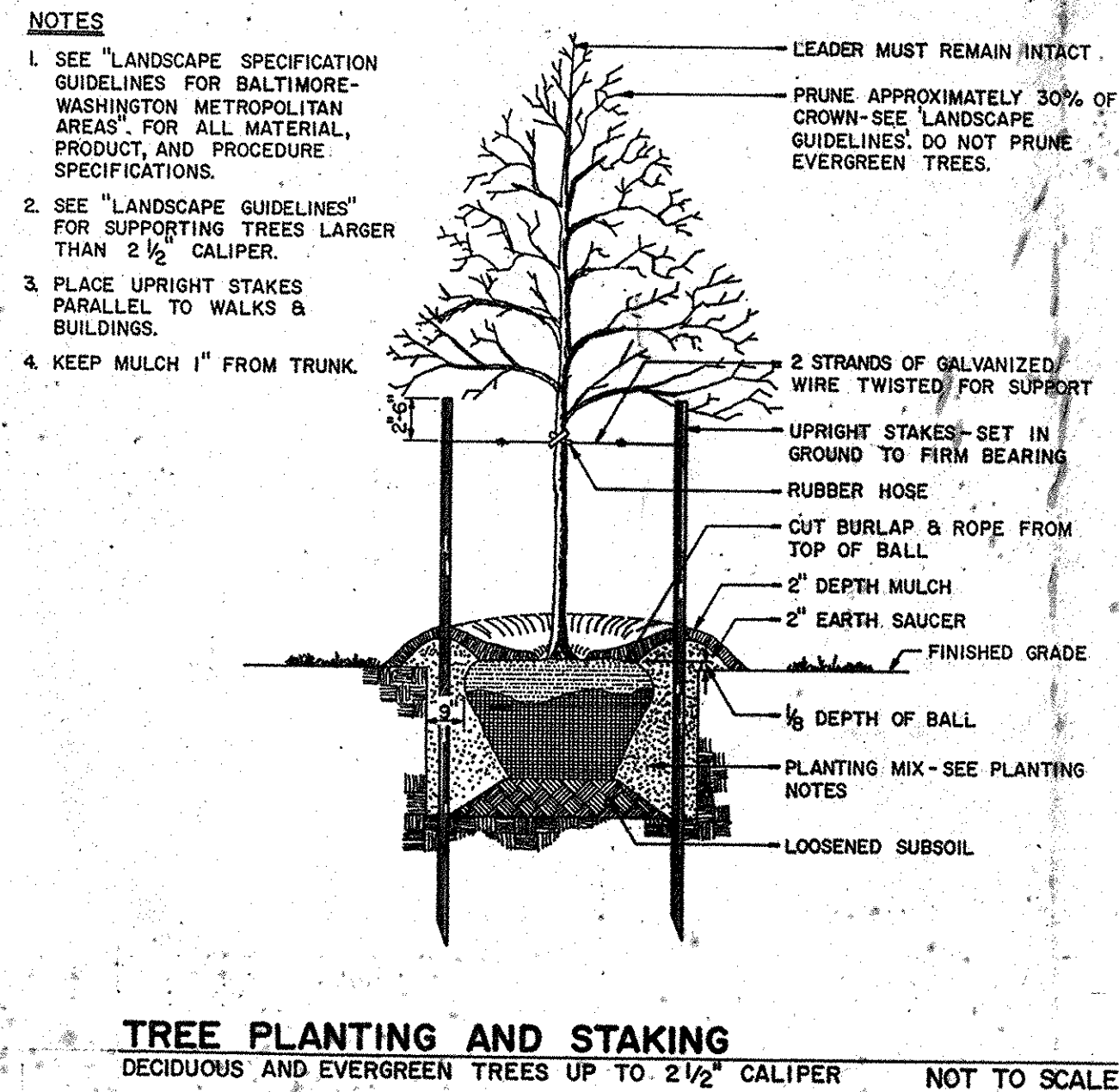
SEDIMENT CONTROL NOTES

- 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. (992-2437)
- 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 3:1; b) 14 days for 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. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

Site Analysis:

- Total Area of Site: 4.1 Acres
- Area Disturbed: 2.5 Acres
- Area to be roofed or paved: 1.0 Acres
- Area to be vegetatively stabilized: 0.9 Acres
- Total Cut: 16.4 Cu. yds
- Total Fill: 2.72 Cu. yds
- Offsite waste/borrow area location: TO BE DETERMINED

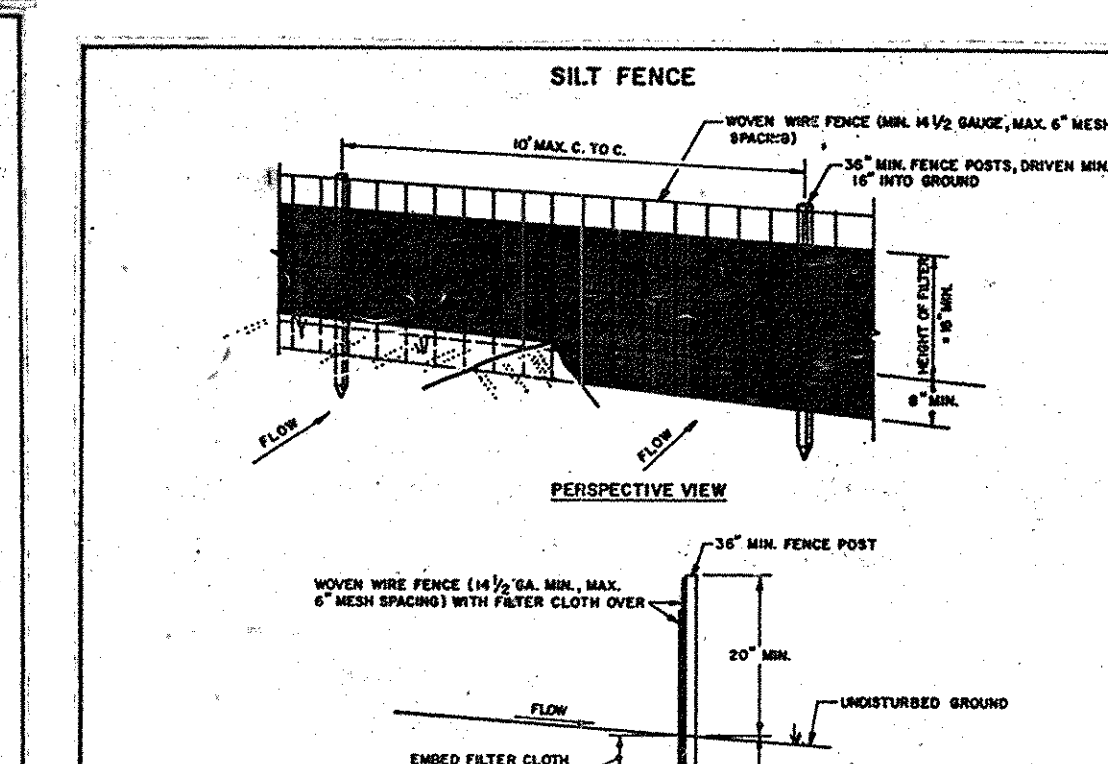
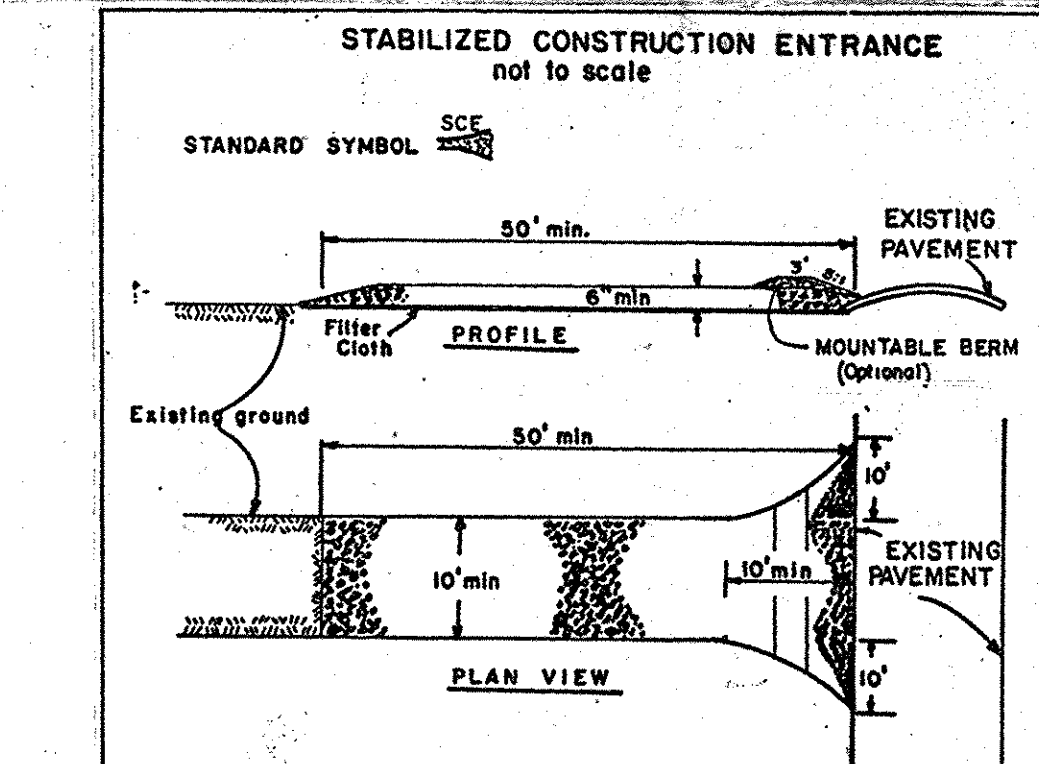
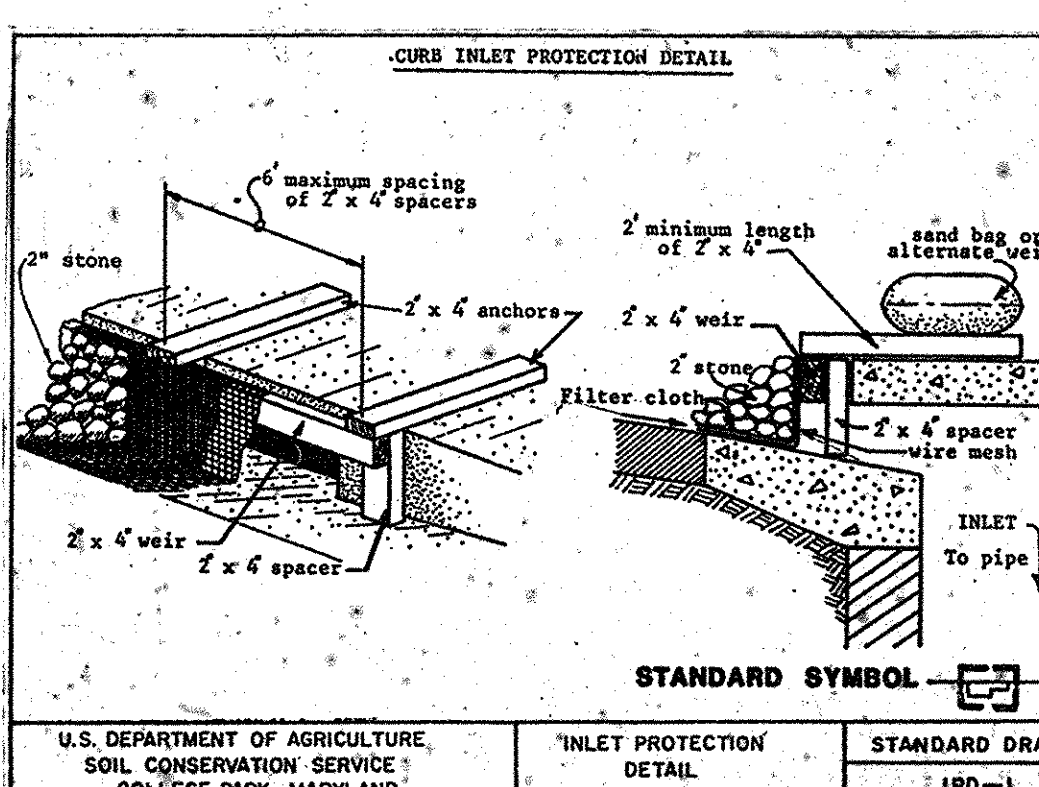
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- On all sites with disturbed areas 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.



REQUIRED SEQUENCE OF CONSTRUCTION

OPERATION	TIME FOR COMPLETION
1. OBTAIN GRADING PERMIT	3 DAYS
2. NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS (992-2437) AND MISS UTILITY (1-559-0100) A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY WORK	1 DAY
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE	1 DAY
4. BEGIN MINOR CLEARING OPERATIONS FOR CONSTRUCTION OF SEDIMENT CONTROL MEASURES AND DEVICES	3 DAYS
5. INSTALL SEDIMENT CONTROL MEASURES AND DEVICES	5 DAYS
6. NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS (992-2437) UPON COMPLETING INSTALLATION OF PERIMETER CONTROLS	1 DAY
7. DEMOLISH EXISTING BUILDINGS AND SITE WALLS TO BE REMOVED	1 WEEK
8. CLEAR AND GRUB SITE AND PERFORM ROUGH GRADING OPERATIONS	3 WKS
9. INSTALL UTILITIES, STORM DRAINS, STORMWATER MANAGEMENT, AND INLET PROTECTION	4 WKS
10. REMOVE TEMPORARY EARTH DIKE BEHIND UNITS E & F & SEDIMENT TRAP #3	2 DAYS
11. PERFORM BUILDING CONSTRUCTION AND NEW PAVING OPERATIONS	6 MOS
12. PERFORM FINE GRADING AND VEGETATIVE STABILIZATION	6 MOS
13. CLEAN OUT ALL COLLECTED SILT AND REMOVE SEDIMENT CONTROL MEASURES PRIOR TO SUBSTANTIAL COMPLETION AND SOD AREA OF TRAP #1 (WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR)	1 WEEK

NOTE: ALL TIMES FOR COMPLETION ARE APPROXIMATE AND SUBJECT TO MODIFICATION.



OWNER/DEVELOPER

PATAPSCO VALLEY ASSOCIATES
1018 N. CHARLES STREET
BALTIMORE, MARYLAND 21202
301-762-1616

CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum but not less than the full width at points where ingress or egress occurs.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance, if piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way, this may require periodic top dressing with additional stone as conditions demand, and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
- When top sections of filter cloth remain on each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when "bales" develop in the silt fence.

TREE INVENTORY SUMMARY

STAND NUMBER	AREA (ACRES)	DOMINANT SPECIES	QUANTITY	TIMBER SIZE	OTHER SPECIES	QUANTITY	TIMBER SIZE
1	0.70	Sycamore Red Maple Sugar Maple	24* 66k 18* +/-	38" 18" 18"	VIRGINIA PINE WHITE OAK BEECH	4k 4k 4k	(18") (18") (18")
2	0.28	Sycamore Red Maple Sugar Maple	24* 19k 18* +/-	38" 18" 18"	VIRGINIA PINE WHITE OAK BEECH	1k 1k 1k	(18") (18") (18")

NOTES:

- UNDERBRUSH CONSISTS OF SPARSE GREENRIAR AND HONEYSUCKLE.
- THICK LEAF LITTER UNDER BOTH STANDS; (25% LOGS AND BRICKS).
- BOTH STANDS TO REMAIN AS BUFFER AREAS.
- SEE SHEET NO. 6 FOR SOIL TYPES.
- SOME TREES WITH CAVITIES PRESENT, MINIMAL STANDING DEAD WOOD.
- VEGETATION INVENTORY CONDUCTED 11/16/88 BY HIRMS & ASSOC.

TREE SUPPORT SCHEDULE

DECIDUOUS AND EVERGREEN TREES

TREE SIZE HEIGHT	TREE SIZE CALIPER	STAKE #	WIRE OR CABLE	TURNOCKLE	HOSE
6'-8'	1-1 1/2"	5'	UPRIGHT	2	14 GAUGE WIRE - 1/2"
8'-10'	1 1/2-2"	6' or 6'	UPRIGHT	2	14 GAUGE WIRE - 1/2"
10'-12'	2-2 1/2"	7' or 8'	UPRIGHT	2	14 GAUGE WIRE - 1/2"
12'-14'	2 1/2-3"	8'	UPRIGHT	3	12 GAUGE WIRE - 1/2"
14'-16'	3-4"	8'	UPRIGHT	3	12 GAUGE WIRE - 3/4"
16'-20'	4-6"	30'	UPRIGHT	3	12 GAUGE WIRE - 3/4"
20' and OVER	6" and OVER	DEADENED	3	3/16" CABLE	3/8" x 6"

SEDIMENT CONTROL NOTES & DETAILS GREYSTONE

COLLEGE AT ST. PAUL TOWNHOUSES
REF: SDP-88-28
TAX MAP 25-A
SECOND ELECTION DISTRICT

SDP-89-159
PARCEL 295
HOWARD COUNTY, MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS - PLANNERS - SURVEYORS

8818 CENTRE PARK DRIVE
COLUMBIA, MARYLAND 21045

SUITE 208
TELEPHONE (301) 740-5200

DESIGNED BY: GM/JH
DRAWN BY: DGH
CHECKED BY: RHV
DATE: 2/89
SCALE: AS SHOWN
W.O. NO. 44-88-008A

ENGINEER'S CERTIFICATE

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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

7-14-89

Signature of Engineer: [Signature]
DATE: 7/24/89

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Signature of Developer: [Signature]
DATE: 7/24/89

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: [Signature]
DATE: 8/3/89

U.S. SOIL CONSERVATION SERVICE

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

Signature: [Signature]
DATE: 8/3/89

HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Signature: [Signature]
DATE: 9/11/89

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

Signature: [Signature]
DATE: 8/3/89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

Signature: [Signature]
DATE: 9-6-89

HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER

SEDIMENT CONTROL NOTES & DETAILS GREYSTONE

COLLEGE AT ST. PAUL TOWNHOUSES
REF: SDP-88-28
TAX MAP 25-A
SECOND ELECTION DISTRICT

SDP-89-159
PARCEL 295
HOWARD COUNTY, MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS - PLANNERS - SURVEYORS

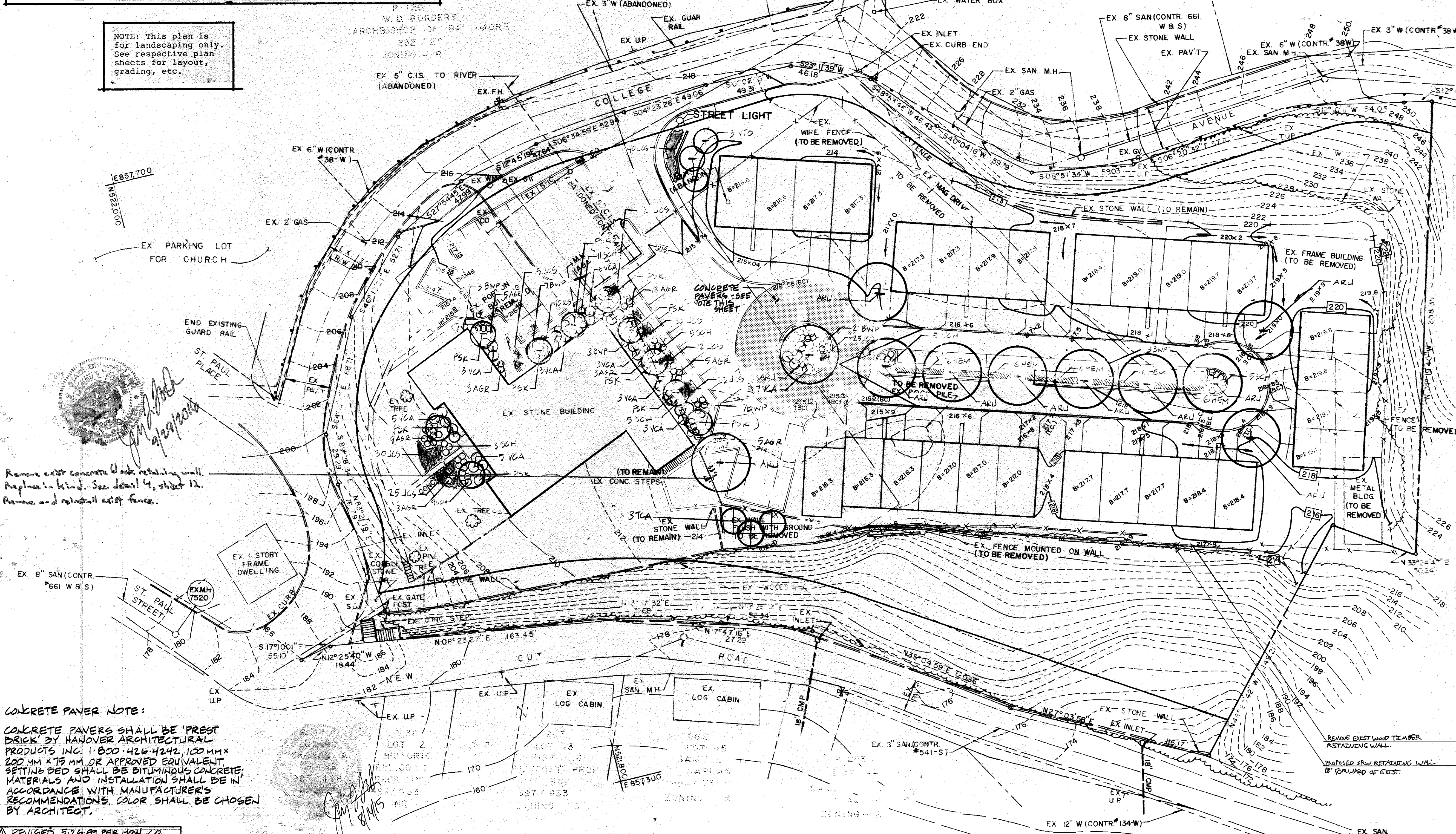
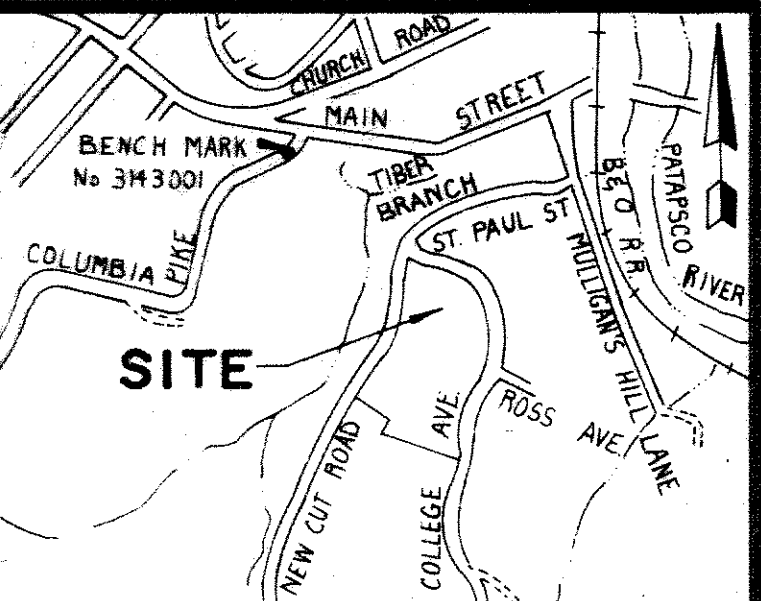
8818 CENTRE PARK DRIVE
COLUMBIA, MARYLAND 21045

SUITE 208
TELEPHONE (301) 740-5200

DESIGNED BY: GM/JH
DRAWN BY: DGH
CHECKED BY: RHV
DATE: 2/89
SCALE: AS SHOWN
W.O. NO. 44-88-008A

KEY	QTY	BOTANICAL NAME / COMMON NAME	SIZE	ROOT	REMARKS
AGR	46	ABELIA GRANDIFLORA / GLOSSY ABELIA	18"-24" HT.	POTS	FULL, HEAVY
ARU	11	ACER RUBRUM / RED MAPLE	2"-2 1/2" CN., 12"-14" HT.	BB	SINGLE STRAIGHT LEADERS
BMP	54	BERBERIS GLANDYENSIS 'M. PENN' / W. PENN. BARBERY	15"-18" HT. & SPREAD	POTS	FULL, HEAVY
JCS	214	JUNIPERUS CHINENSIS SARGENTI / SARGENT JUNIPER	15"-18" HT. & SPREAD	POTS	PLANT 2 24" ON CENTER
PSK	10	PRUNUS SEROTINATA 'KAWAZUMI' / TWIGG CHERRY	8"-10" HT.	BB	TREE FROM SPECIMEN
SCH	43	SIPHOCARPUS F. HANCKELI / HANCKEL CHALBERRY	18"-24" HT.	BB	FULL, HEAVY
TCA	3	TSUGA CANADENSIS / CANADIAN HEMLOCK	7"-8" HT.	BB	HEAVY, SINGLE LEADER
HEM	30	TSUGA CANADENSIS / CANADIAN HEMLOCK	2"-3" HT.	BB	WELL-HATCHED, FULL
VCA	38	VIBURNUM CARLESI / FRAGRANT VIBURNUM	2"-2 1/2" HT.	POTS	HEAVY FOLIAGE (NOT LOSSY)
VTO	3	VIBURNUM TOMENTOSUM / DOUBLEFILE VIBURNUM	2"-3" HT.	POTS	FULL, HEAVY

NOTE: This plan is for landscaping only. See respective plan sheets for layout, grading, etc.



- PLANTING NOTES**
- PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.
 - ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DECAY, DISTURBING ROOTS, BUNSCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BOYERS AND ALL FORMS OF INFESTATION OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WRECK OR WHICH HAS BEEN CUT BACK FROM LARGER GRASSES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FREELY DUG OR HEELED-IN PLANTS OR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
 - UNLESS OTHERWISE SPECIFIED, ALL PLANT MATERIAL SHALL CONFORM TO "AMERICAN STANDARD FOR NURSERY STOCK", PART 266.1-1986, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INCLUDING ALL ADDENDA.
 - UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, SEPTEMBER, 1981, INCLUDING ALL ADDENDA.
 - CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES, UTILITY CONTRACTORS AND "MISS UTILITY" A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND LOCATION OF PLANT MATERIALS TO AVOID CONFLICTS WITH UTILITIES.
 - PLANTING BEDS SHALL BE MULCHED WITH 3" OF SHREDED HARDWOOD BARK MULCH. GROUND COVER BEDS SHALL BE MULCHED TO A DEPTH OF 2".
 - ALL AREAS WITHIN THE CONTRACT LIMIT NOT COVERED BY BUILDING, PAVING, PLANTING BEDS OR OTHERWISE DESIGNATED ON THE PLANS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PERMANENT SEEDING SPECIFICATIONS, INCLUDING ALL ADDENDA.
 - CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIAL IN THE PROPER PLANTING SEASON FOR EACH PLANT TYPE.
 - PLANTING MIX SHALL BE AS FOLLOWS:
 - DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE, ADD 3 LBS. OF STANDARD 18-18-18 FERTILIZER PER CUBIC YARD OF PLANTING MIX.
 - EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL, ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX.
 - TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.

Remove exist concrete block retaining wall. Replace in kind. See detail 4, sheet 12. Remove and reinstall exist fence.

CONCRETE PAVER NOTE:
 CONCRETE PAVERS SHALL BE PREST DRICK BY HANOVER ARCHITECTURAL PRODUCTS INC. 1-800-426-4242, 100 MM X 200 MM X 75 MM, OR APPROVED EQUIVALENT. SETTING BED SHALL BE BITUMINOUS CONCRETE. MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COLOR SHALL BE CHOSEN BY ARCHITECT.

OWNER/DEVELOPER
 PATAPSCO VALLEY ASSOCIATES
 1018 N CHARLES STREET
 BALTIMORE, MARYLAND 21202
 301-752-1616

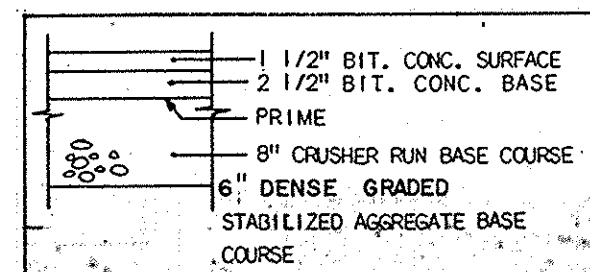
LANDSCAPE PLAN
GREYSTONE
 COLLEGE AT ST. PAUL TOWNHOUSES
 REF SDP-88-28 SDP-89-159
 TAX MAP 25-A PARCEL 295
 SECOND ELECTION DISTRICT HOWARD COUNTY, MD

JOHN E. HARMS JR. AND ASSOCIATES INC.
 CONSULTING ENGINEERS PLANNERS SURVEYORS
 8818 CENTRE PARK DRIVE SUITE 208
 COLUMBIA MARYLAND 21045 TELEPHONE 301-742-5200

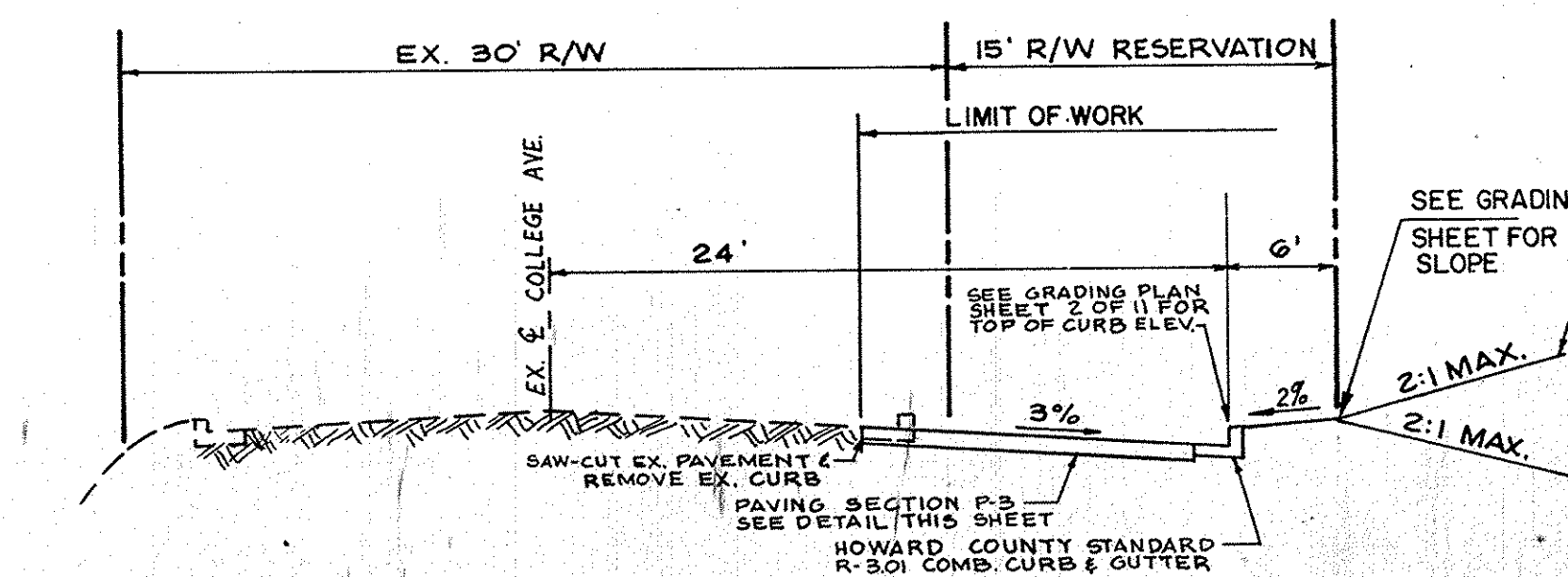
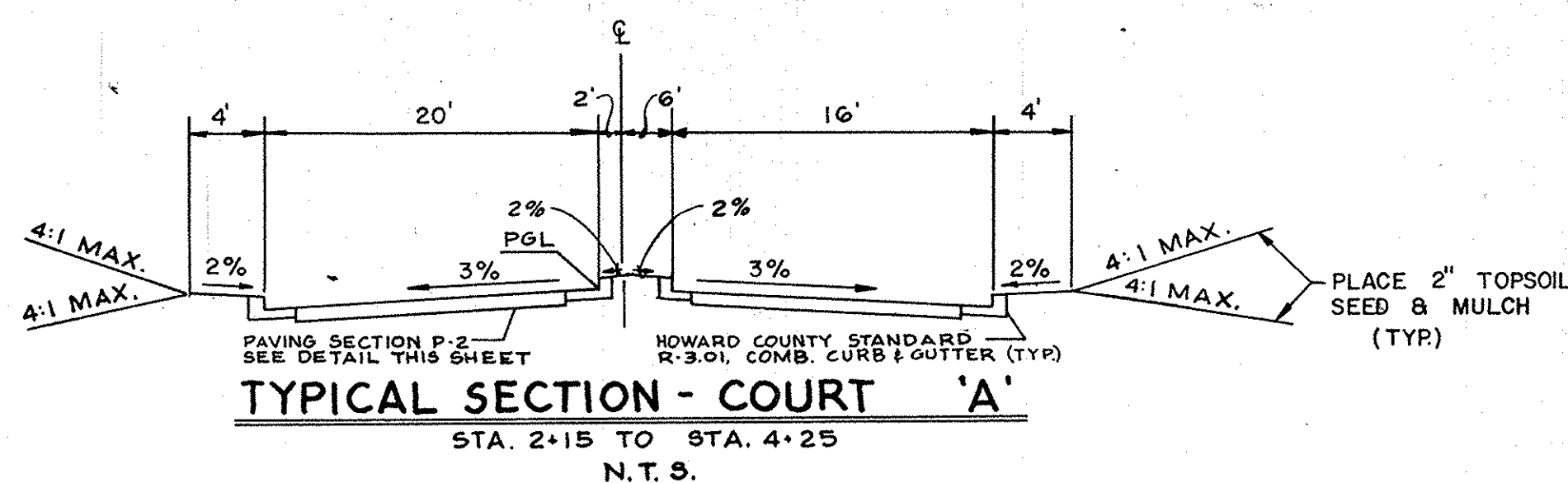
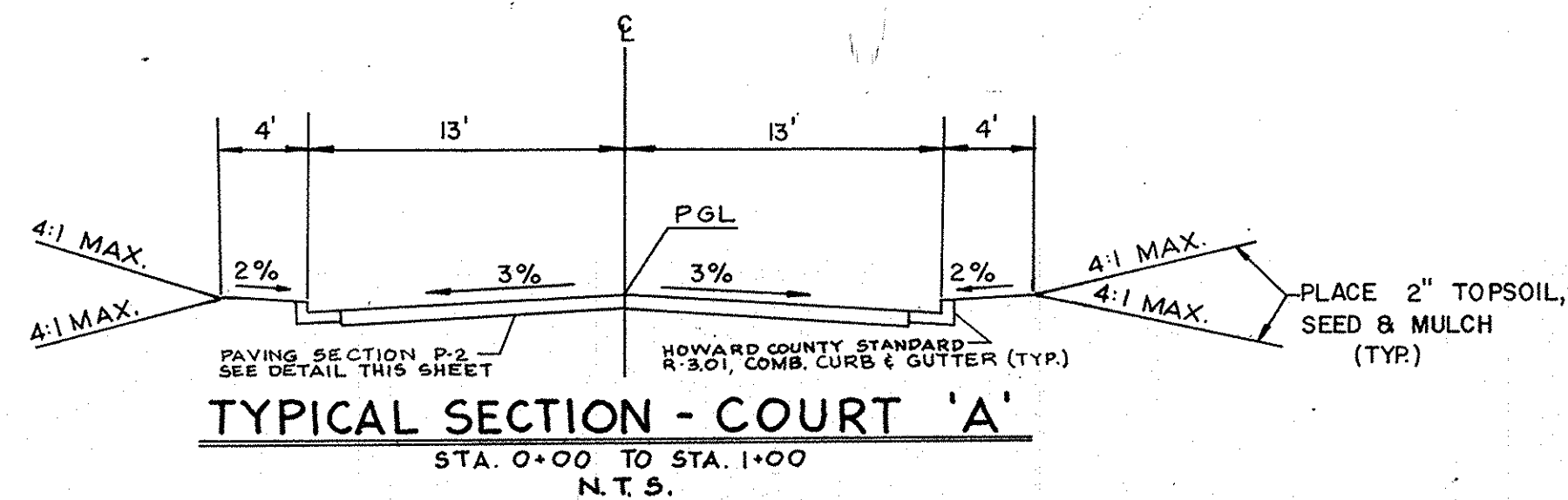
REVISED 5/26/89 PER HOW. CO. OFF. COMMENTS

<p>APPROVED DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT HOWARD COUNTY, MARYLAND DATE 7-14-89</p>	<p>ENGINEER'S CERTIFICATE I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.</p>	<p>DEVELOPER'S CERTIFICATE I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.</p>	<p>REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.</p>	<p>APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING DATE 9/11/89 DIRECTOR</p>	<p>APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DATE 8/31/89 DIRECTOR</p>
	<p>APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT DATE 9/6/89 COUNTY HEALTH OFFICER</p>	<p>APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS DATE 8-30-89 CHIEF, BUREAU OF ENGINEERING</p>	<p>DESIGNED BY: G.E.M. DRAWN BY: G.E.M. CHECKED BY: R.H.V. DATE: 1/89 SCALE: 1" = 30' W.C. NO. 44-88-008A</p>	<p>9 SHEET OF 12 SDP-89-159</p>	

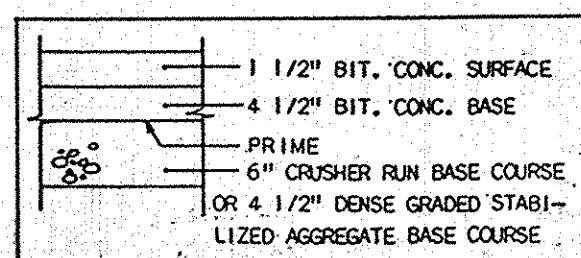
EXISTING BUILDING FLOOR PLANS



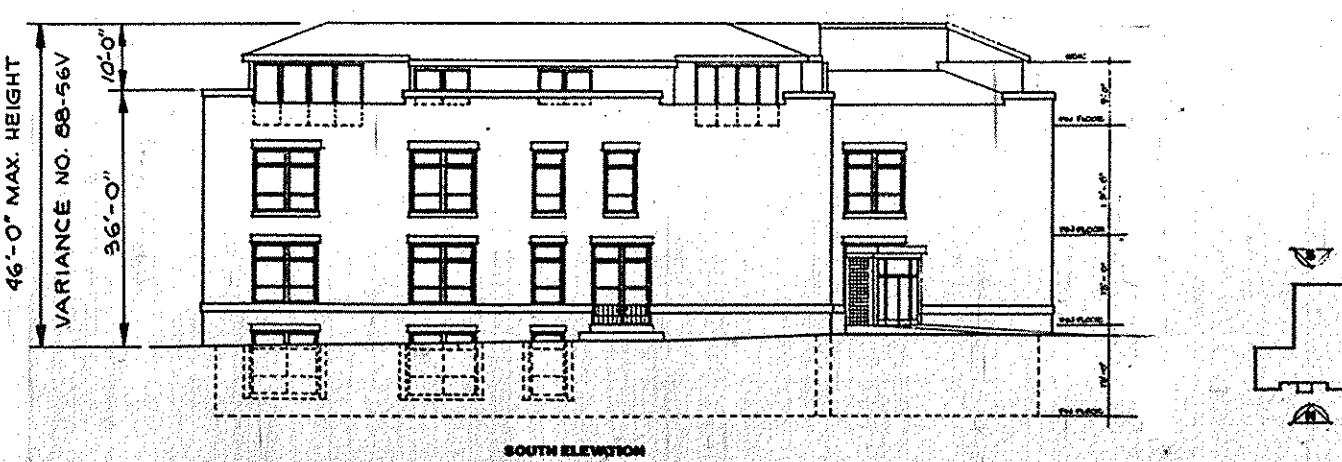
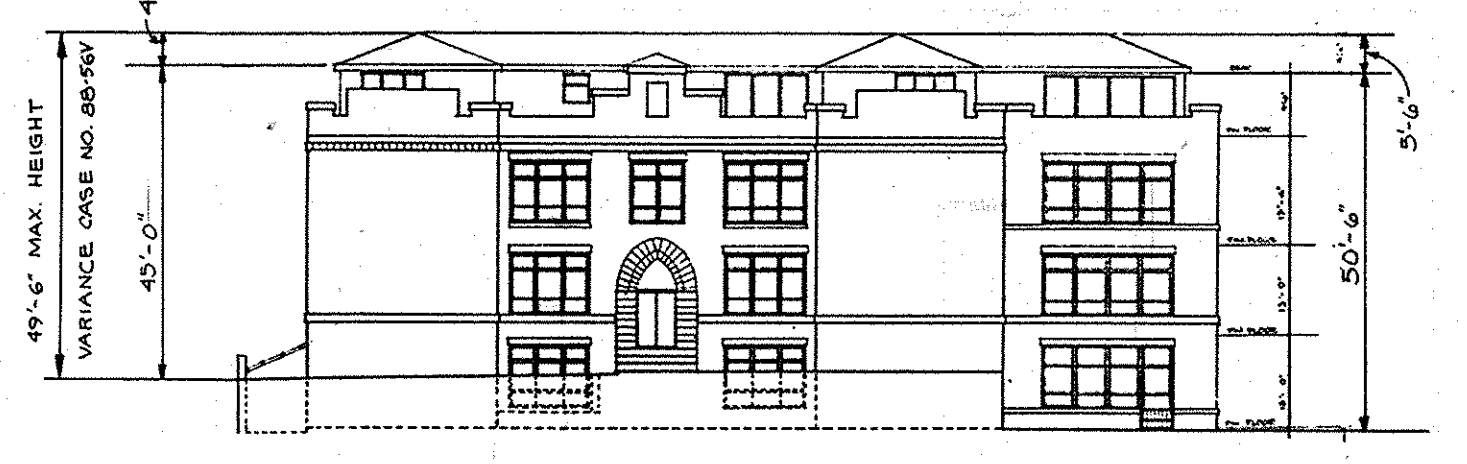
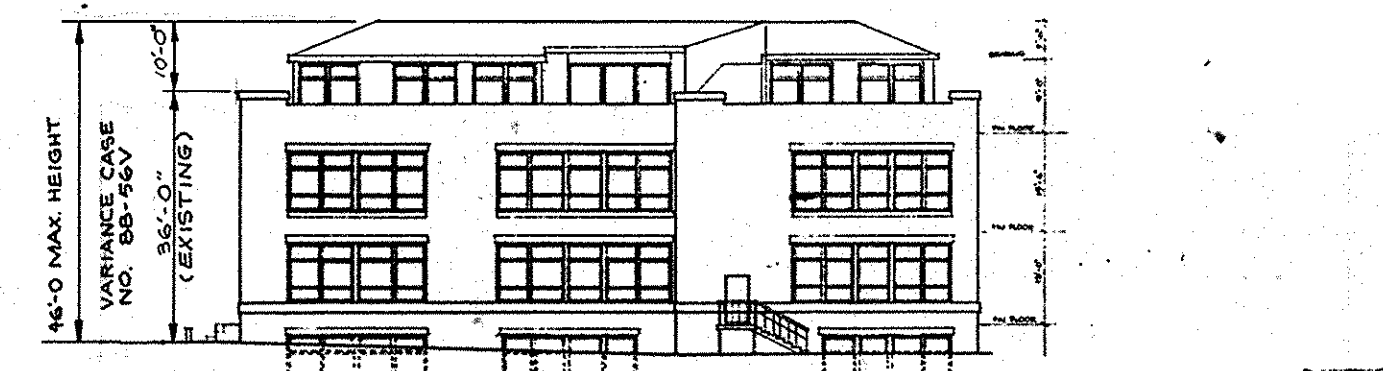
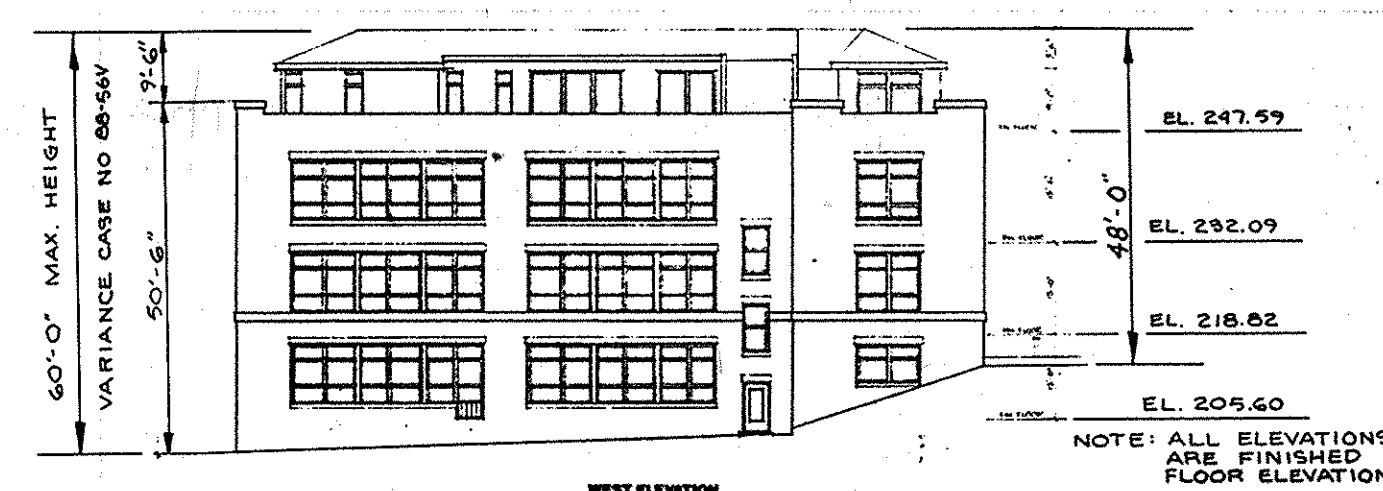
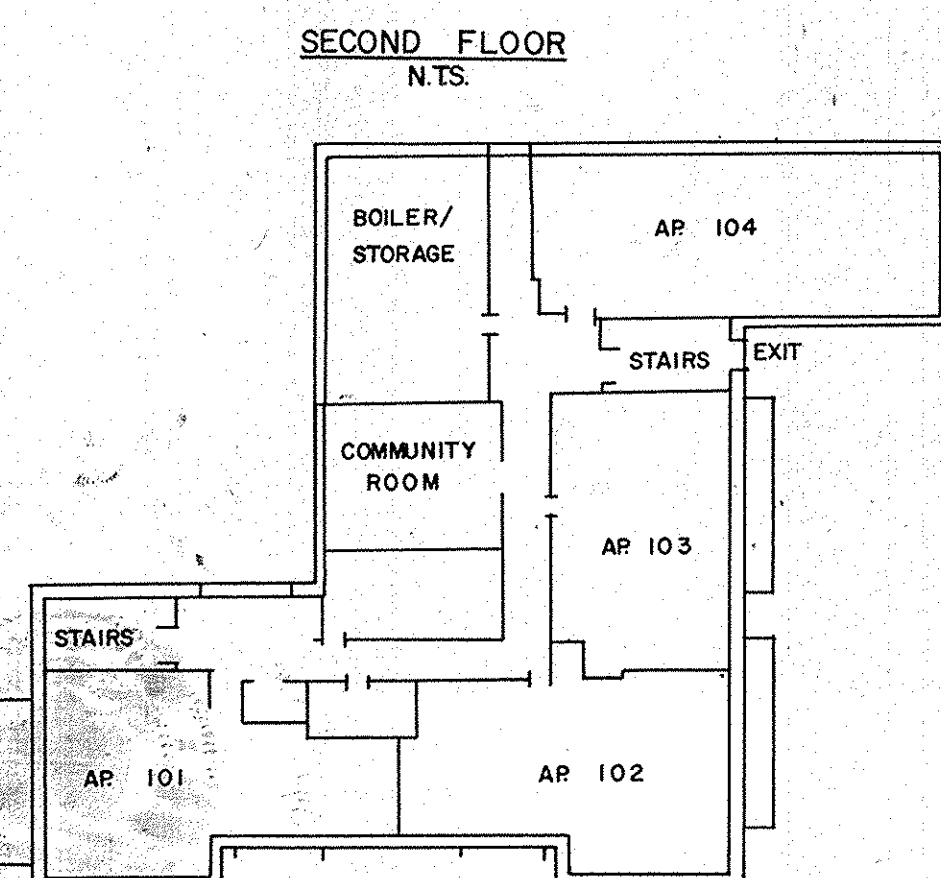
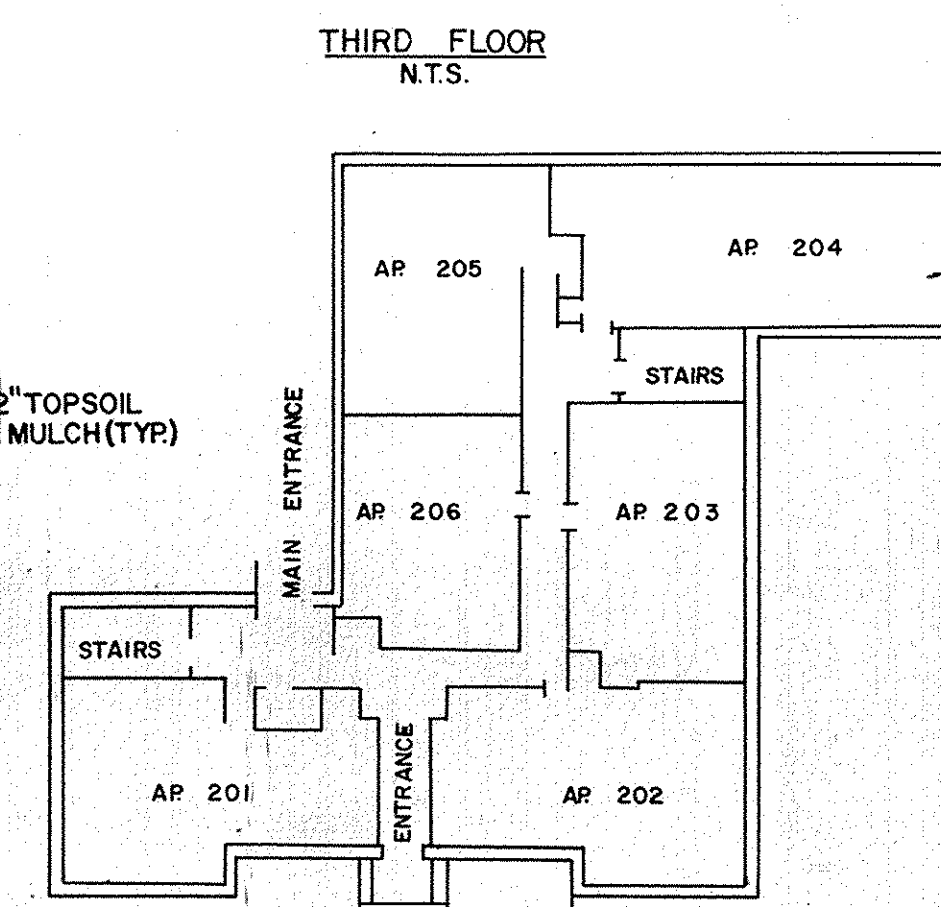
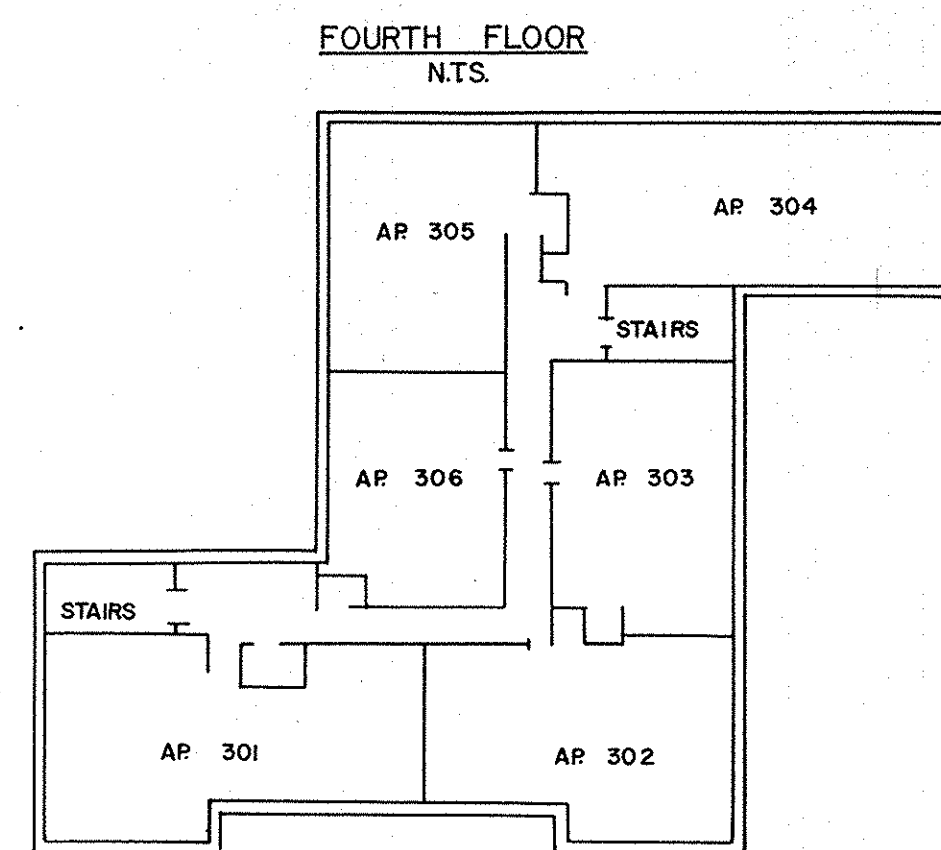
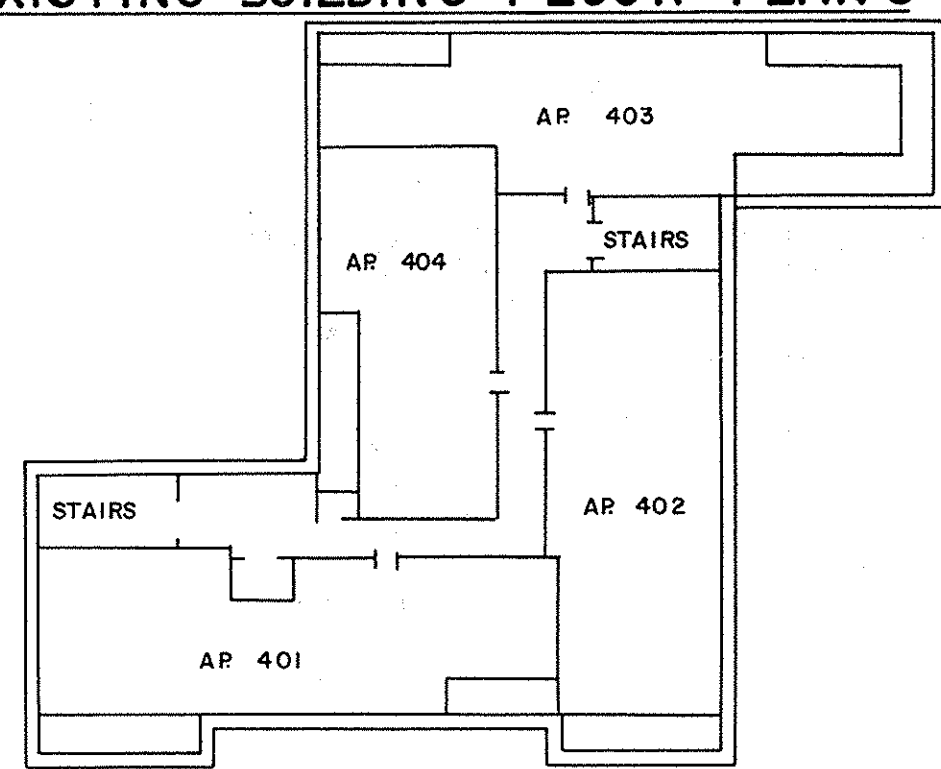
PAVING DETAIL P-2
N.T.S.
PARKING AREA AND COURT 'A'



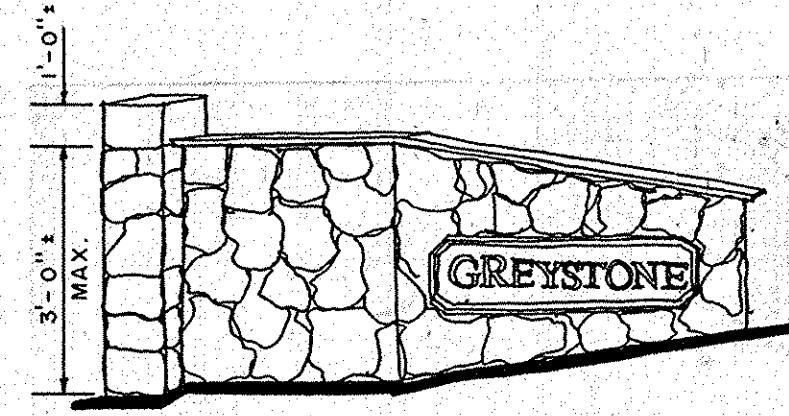
NOTE:
PLACE HOT LIQUID ASPHALT SEALER AE-5 (OR EQUIVALENT) ALONG VERTICAL FACE OF EXISTING PAVING PRIOR TO PLACING NEW MATERIAL TO INSURE CONTINUOUS BOND. UPON COMPLETION OF NEW PAVING, EXCESS LIQUID ASPHALT SHALL BE BRUSHED INTO THE JOINT BETWEEN OLD AND NEW PAVING SURFACES TO PREVENT EXCESS LIQUID ASPHALT FROM BEING TRACKED BY TRAFFIC



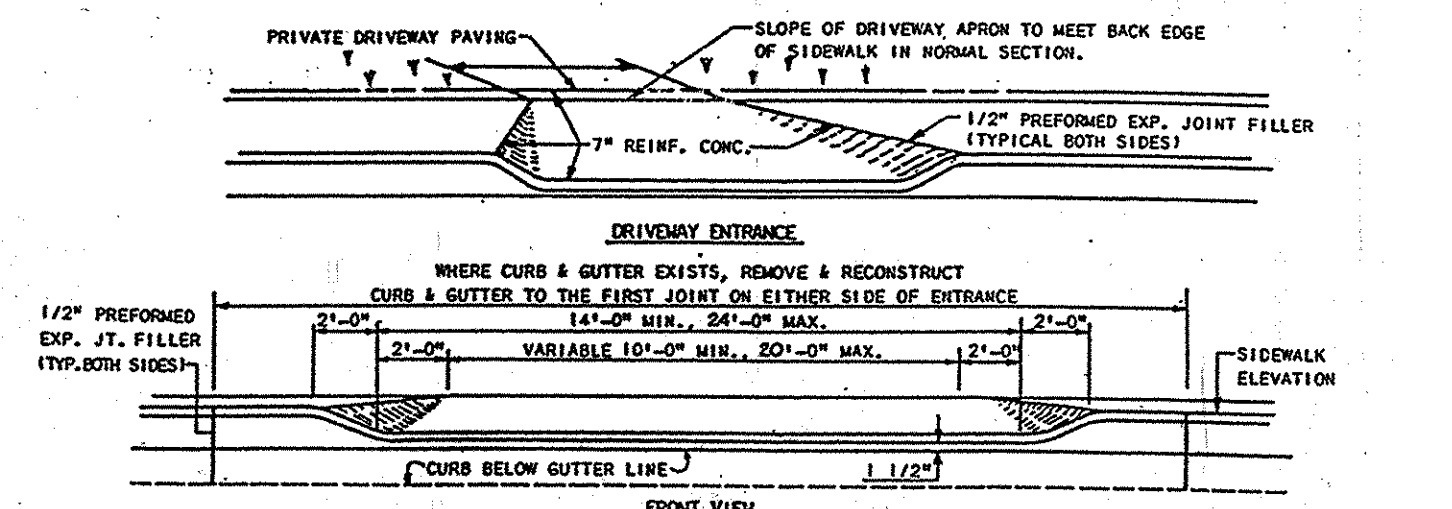
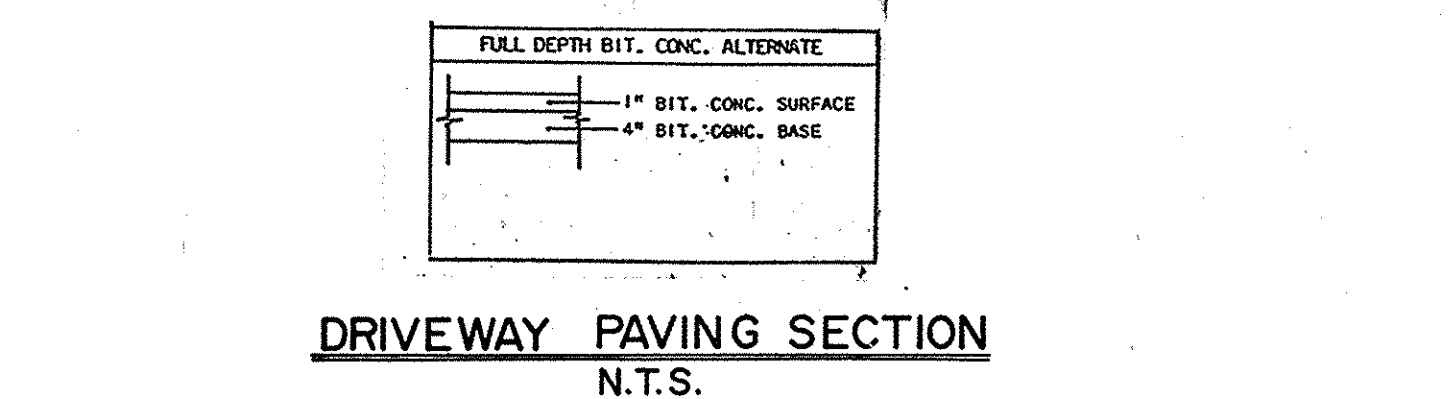
PAVING DETAIL P-3
N.T.S.
COLLEGE AVENUE



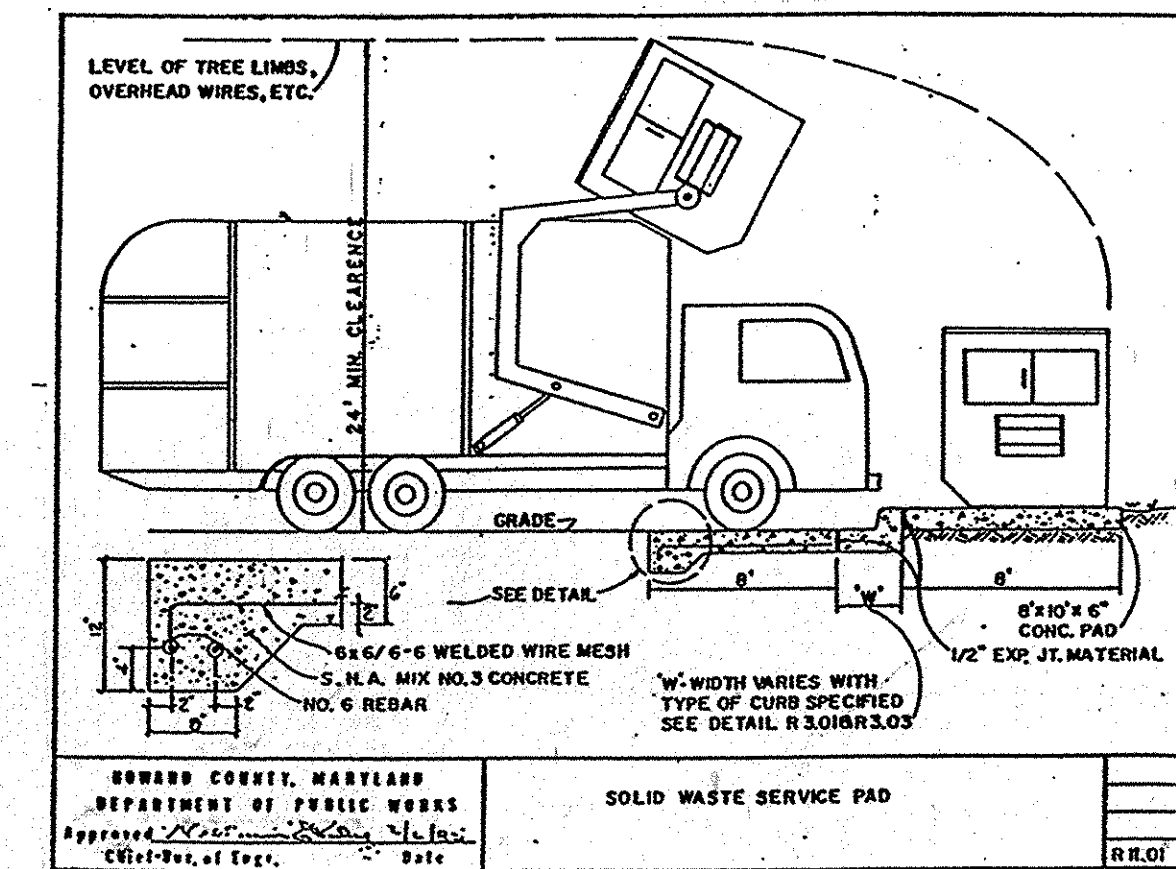
EXISTING BUILDING ELEVATIONS



PLAN
N.T.S.



DRIVEWAY ENTRANCE DETAIL
N.T.S. REF: HO. CO. STD. NO. R-6.02



PROTECTION WALL AT PARKING SPACES AS NOTED ON SITE (DECORATIVE NON-STRUCTURAL)

DETAIL SHEET
GREYSTONE

COLLEGE AT ST PAUL TOWNHOUSES
REF SDP-88-28
TAX MAP 25-A
SECOND ELECTION DISTRICT HOWARD COUNTY, MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.

CONSULTING ENGINEERS - PLANNERS - SURVEYORS
8818 CENTRE PARK DRIVE SUITE 208
COLUMBIA, MARYLAND 21045 TELEPHONE (301) 740-5200

DESIGNED BY: K.B.C.
DRAWN BY: R.P.E.
CHECKED BY: R.H.V.
DATE: 1/89
SCALE: AS SHOWN
W.O. NO. 44-88-008A



APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE: 7-14-89

ENGINEER'S CERTIFICATE
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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
SIGNATURE OF ENGINEER _____ DATE _____

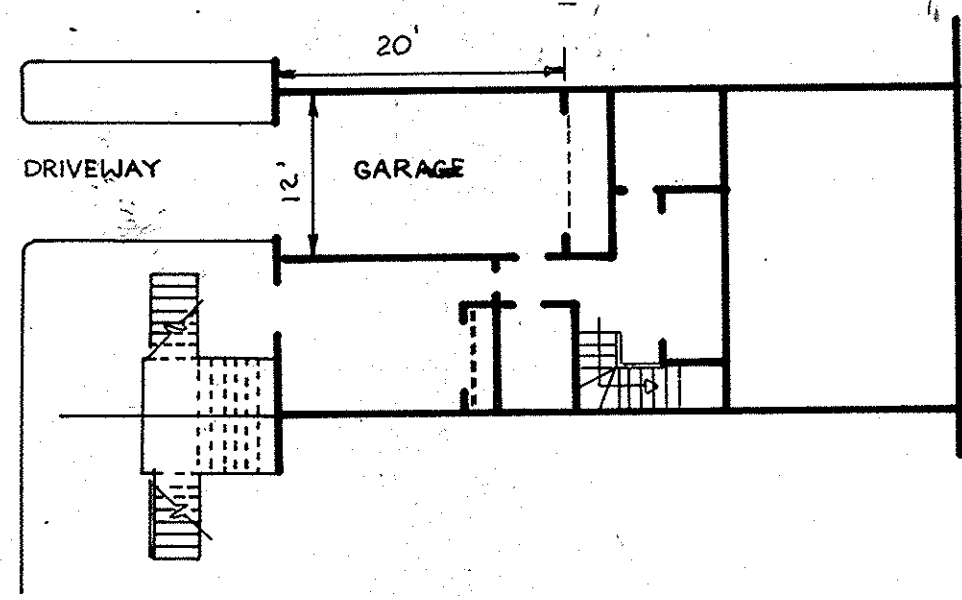
DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
SIGNATURE OF DEVELOPER _____ DATE _____

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE DATE _____
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: _____ DATE _____
HOWARD SOIL CONSERVATION DISTRICT

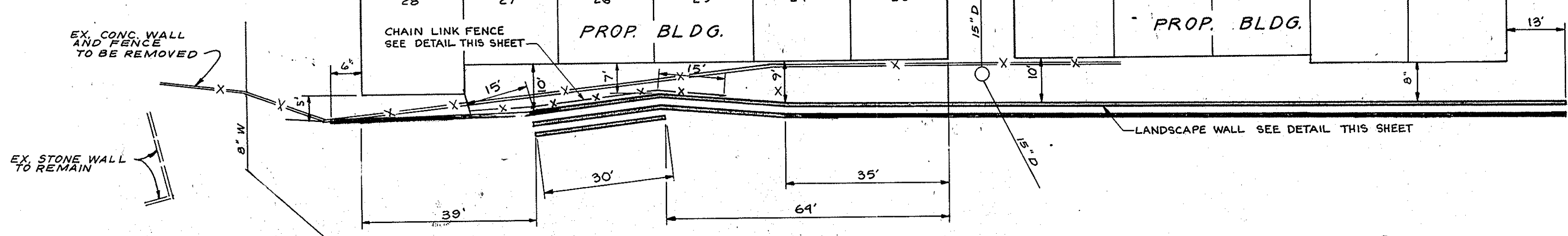
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
9/11/89
DIRECTOR _____ DATE _____
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
9/30/89
DATE _____
APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
9-6-89
COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
8/21/89
DIRECTOR _____ DATE _____
CHIEF, BUREAU OF ENGINEERING
8-30-89
DATE _____

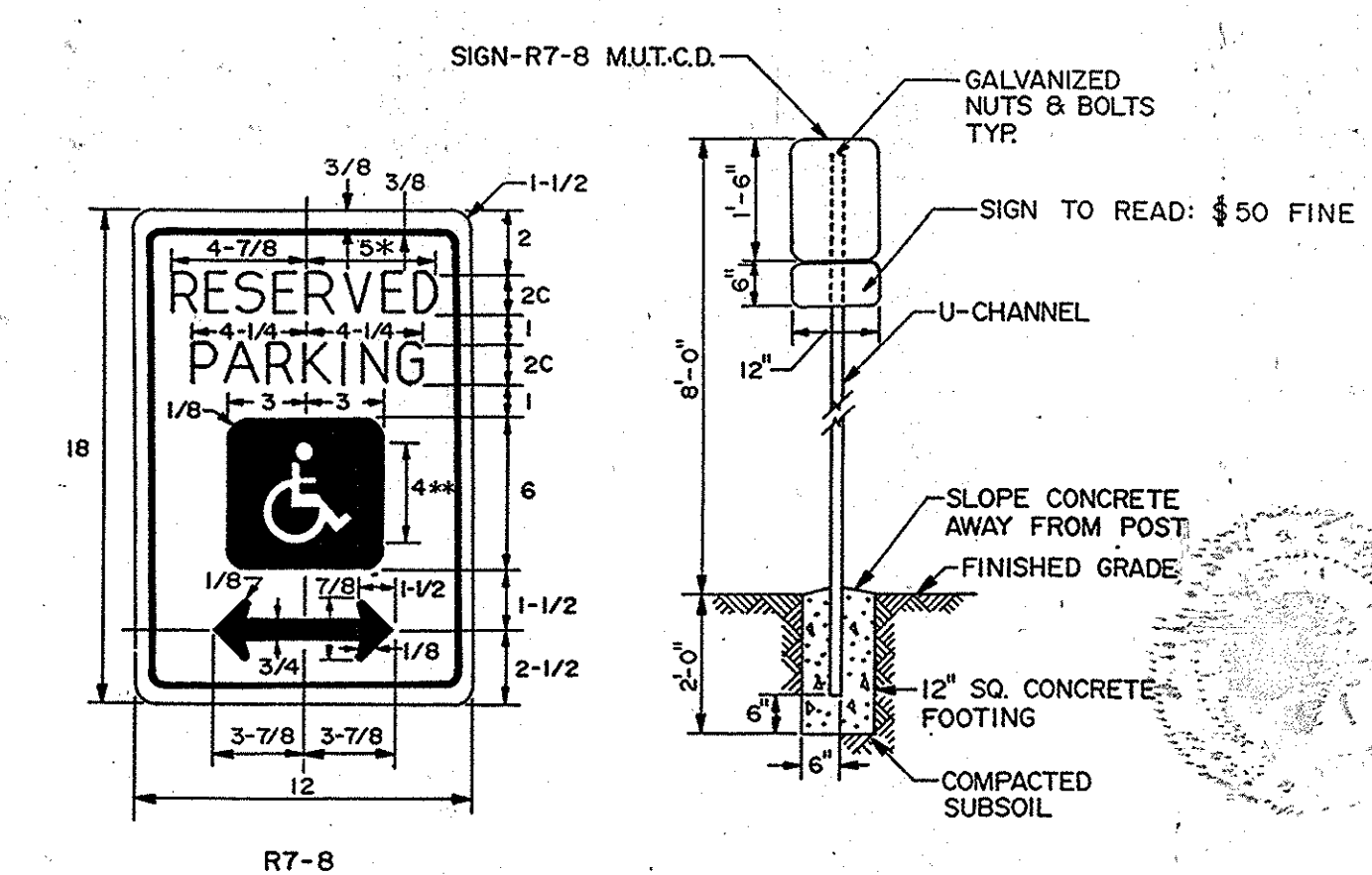
SUBMISSION NAME	SECTION/AREA	PARCEL NUMBER
PLAT NO.	BLOCK NO.	ZONE
WATER CODE	ELEC. DIST.	CENSUS TR
SEWER CODE		



SINGLE UNIT DETAIL
NOT TO SCALE



LANDSCAPE WALL LAYOUT
SCALE: 1" = 20'

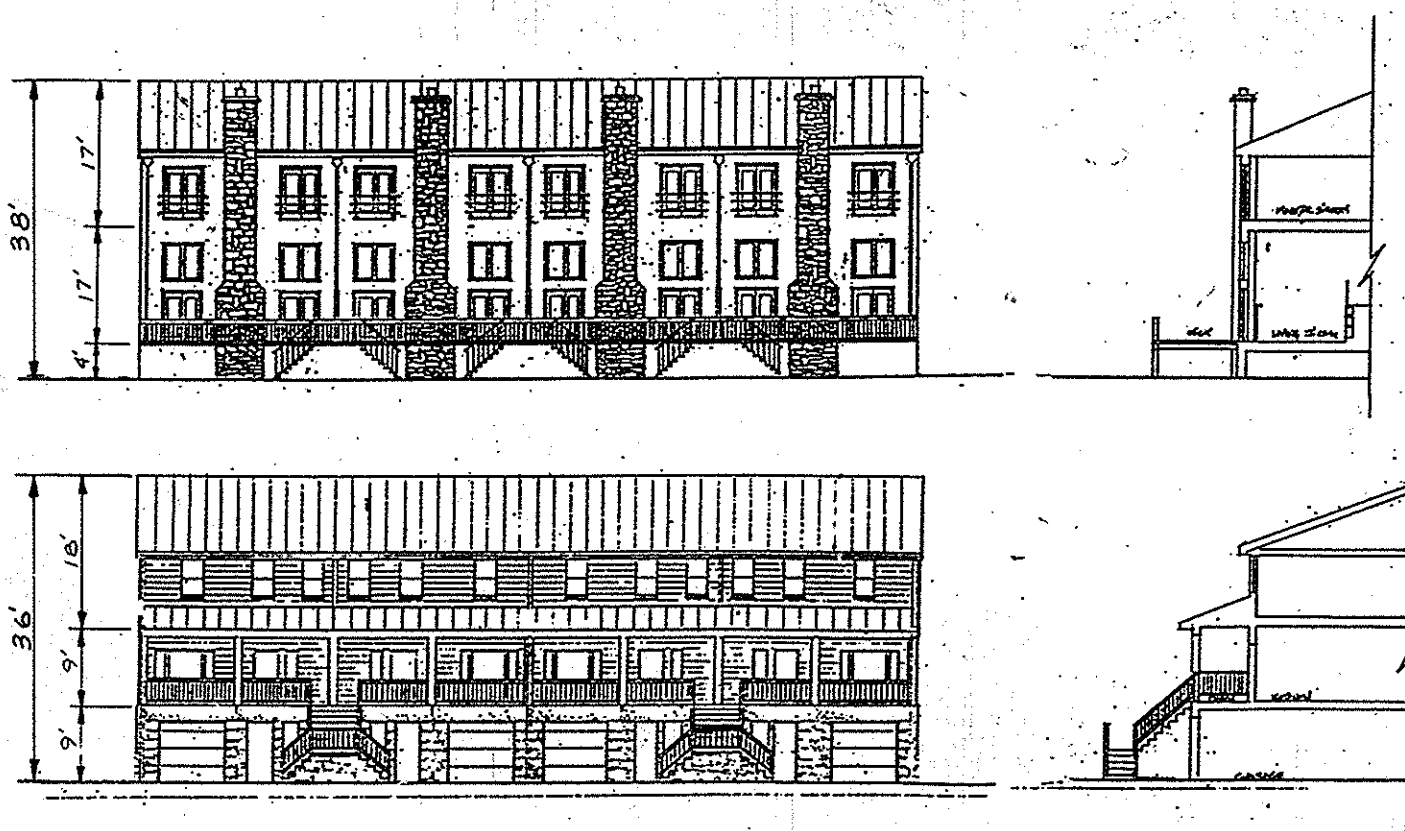


*REDUCE SPACING 50%
**SEE SYMBOL 186D FOR SYMBOL DESIGN (ALL DIMENSIONS FOR SIGN IN INCHES)

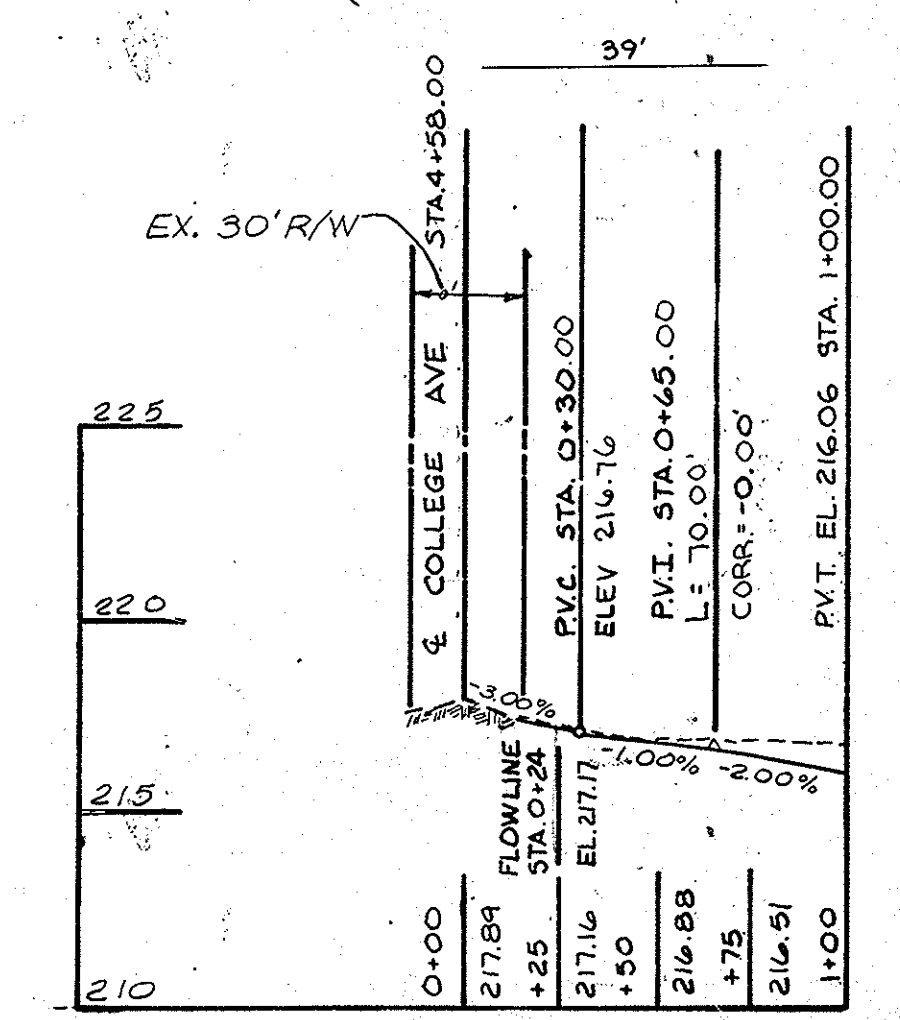
COLORS:
LEGEND & BORDER-GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND-WHITE

REFERENCE: STATE OF MARYLAND STANDARD HIGHWAY SIGNS BOOKLET
MARYLAND DEPARTMENT OF TRANSPORTATION

HANDICAP SIGN DETAIL
NO SCALE



PROPOSED BUILDING ELEVATIONS
NOT TO SCALE

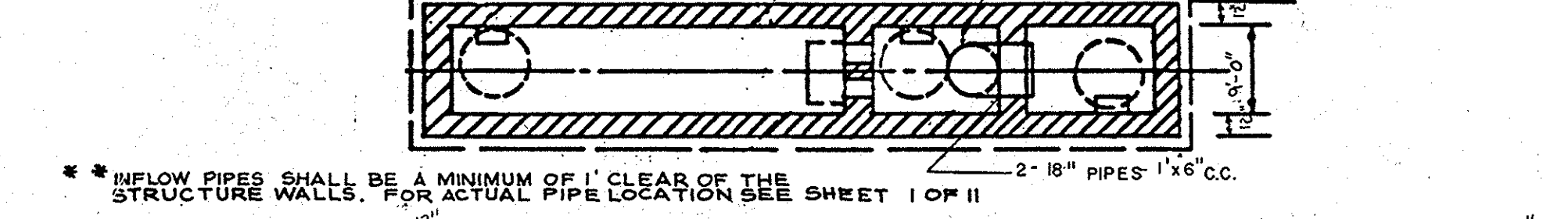


ENTRANCE PROFILE COURT A
SCALE: HORIZ. 1" = 50' VERT. 1" = 5'

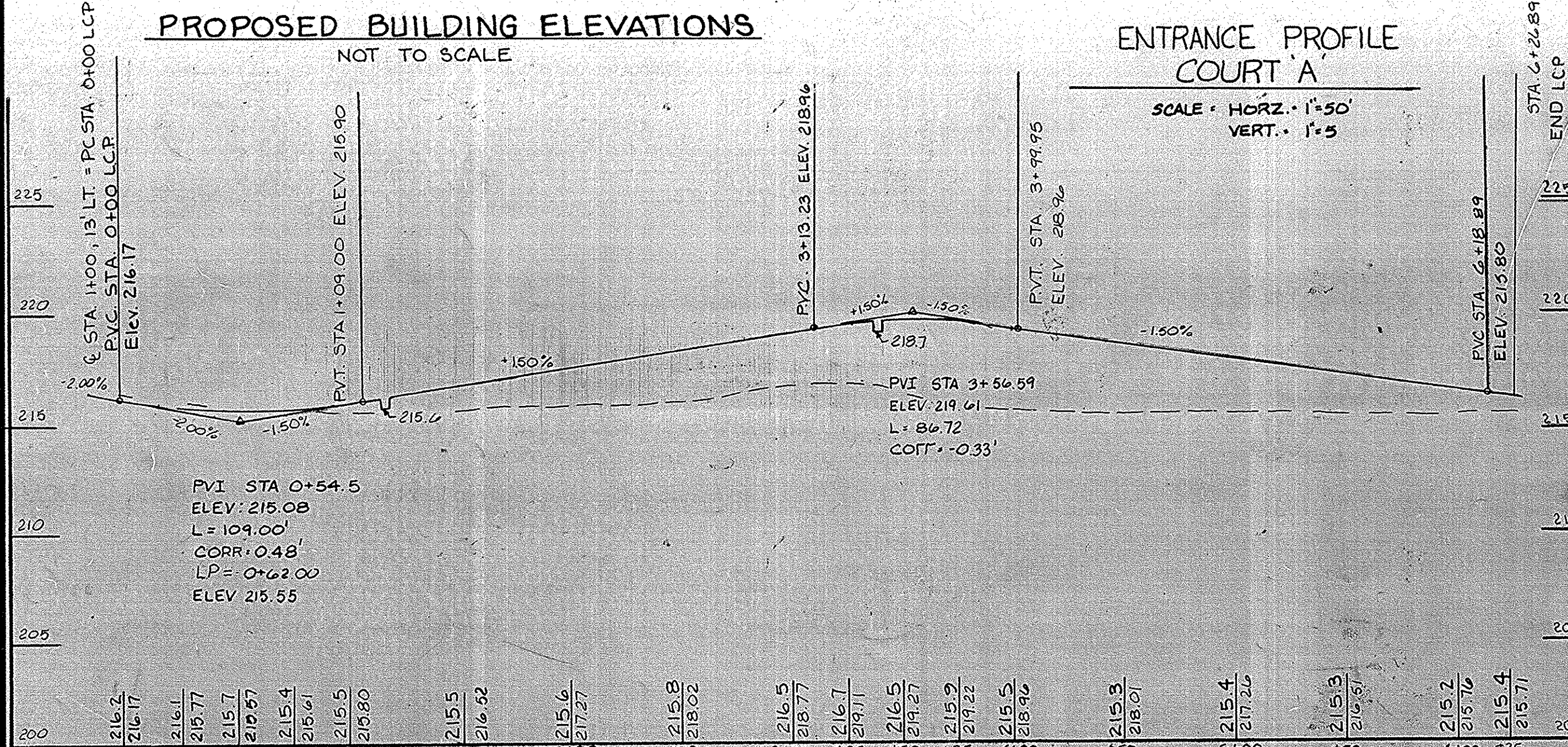
STRUCTURE DATA:

STRUCT. NUMBER	(1+P) DRAIN. AREA	VOL. REQ'D	VOL. PROV.	DIMENSIONS							FLOOR SLAB ELEV.	18" ACCOMP. ELBOW INV.	THROAT LENGTH 1" req'd	TOP SLAB ELEV.	
				A	B	C*	D*	E	F	G					
3-2	1.01 Ac.	202 cft.	297 cft.	1.5'	3.0'	7.0'	4.0'	1.0'	2.91'	1.5'	203.44	205.69	N/A	211.89	210.85

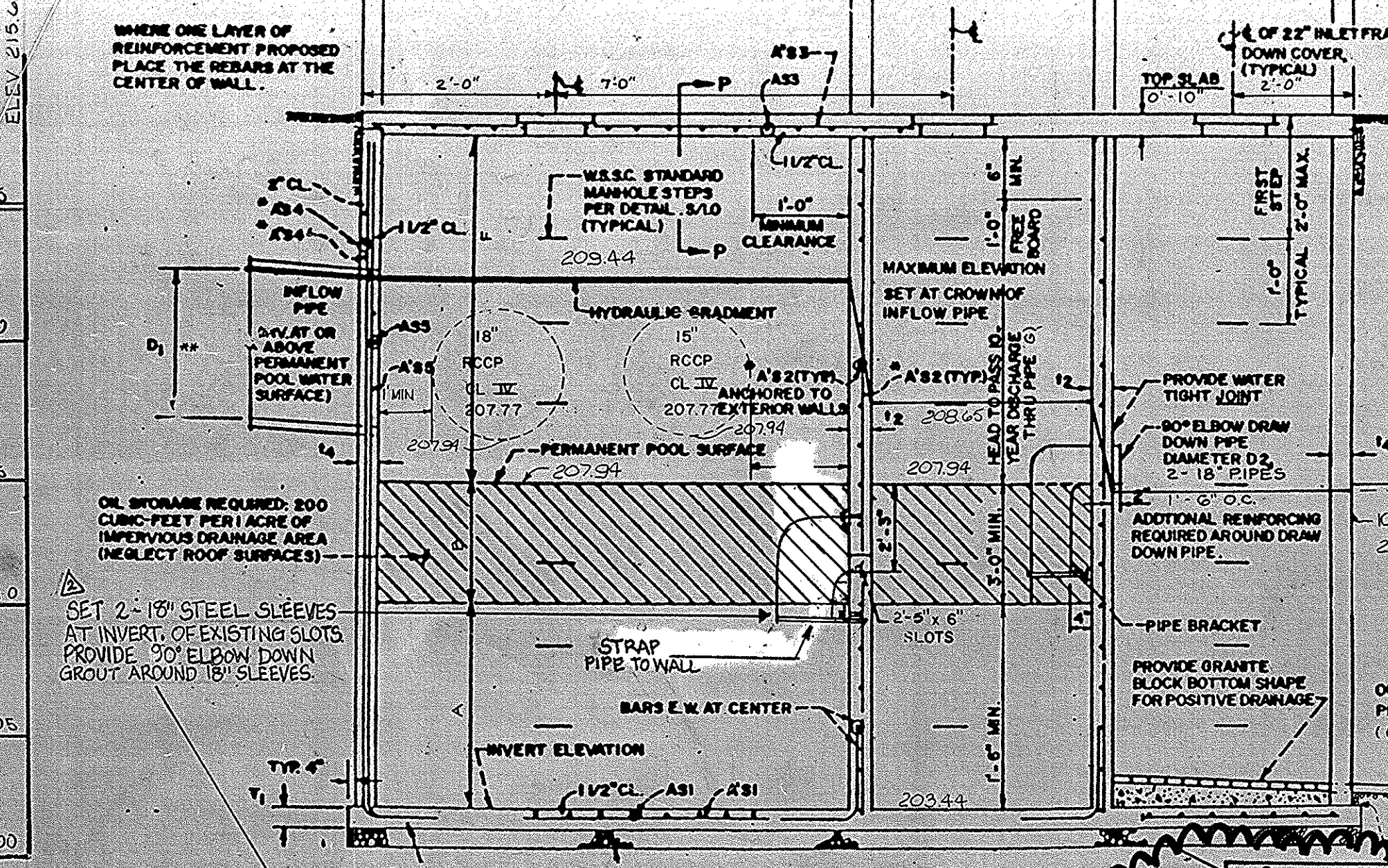
NOTE: SEE HOWARD COUNTY STD. W-3.26, W-3.27, W-3.28 FOR ADDITIONAL INFORMATION



** INFLOW PIPES SHALL BE A MINIMUM OF 1' CLEAR OF THE STRUCTURE WALLS. FOR ACTUAL PIPE LOCATION SEE SHEET I OF II



TOP OF CURB LINEAR CURB PROFILE COURT A
SCALE: HORIZ. 1" = 50' VERT. 1" = 5'



WATER QUALITY STRUCTURE
N.T.S.

APPROVED
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-14-89

ENGINEER'S CERTIFICATE
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 REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DEVELOPER'S CERTIFICATE
WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT WE WILL MAINTAIN AND SEGMENT CONTROL AND THAT A 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 INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS DEEMED NECESSARY.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE DATE: 9/15/89
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
DIRECTOR: [Signature] DATE: 7/11/89

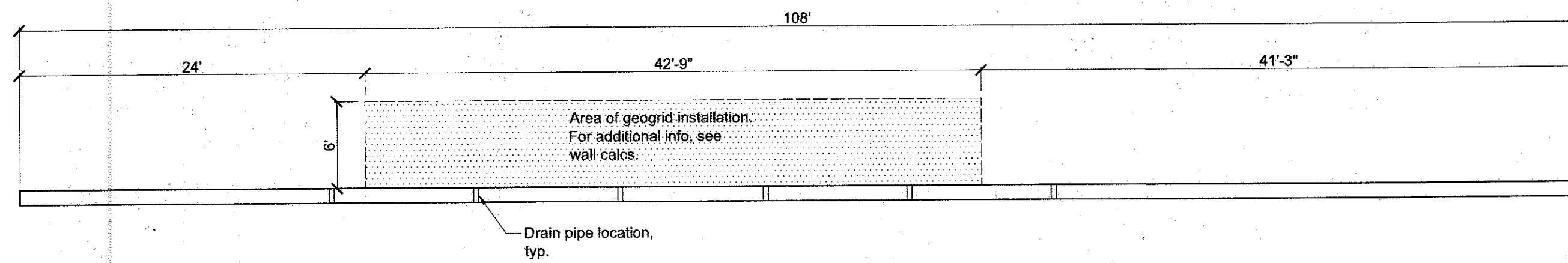
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 8/30/89

NO.	REVISION	DATE
1	Water Quality Structure Modification	12/3/06

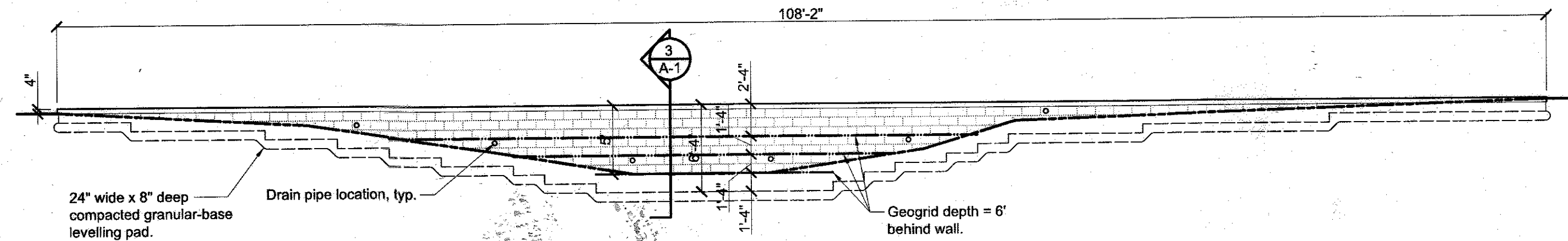
DETAIL SHEET GREYSTONE
COLLEGE AT ST. PAUL TOWNHOUSES
REF. SDP-88-28
TAX MAP 25-A
SECOND ELECTION DISTRICT HOWARD COUNTY, MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS PLANNERS SURVEYORS
8818 CENTRE PARK DRIVE SUITE 2C-B
COLUMBIA, MARYLAND 21045 TELEPHONE (301) 740-5200

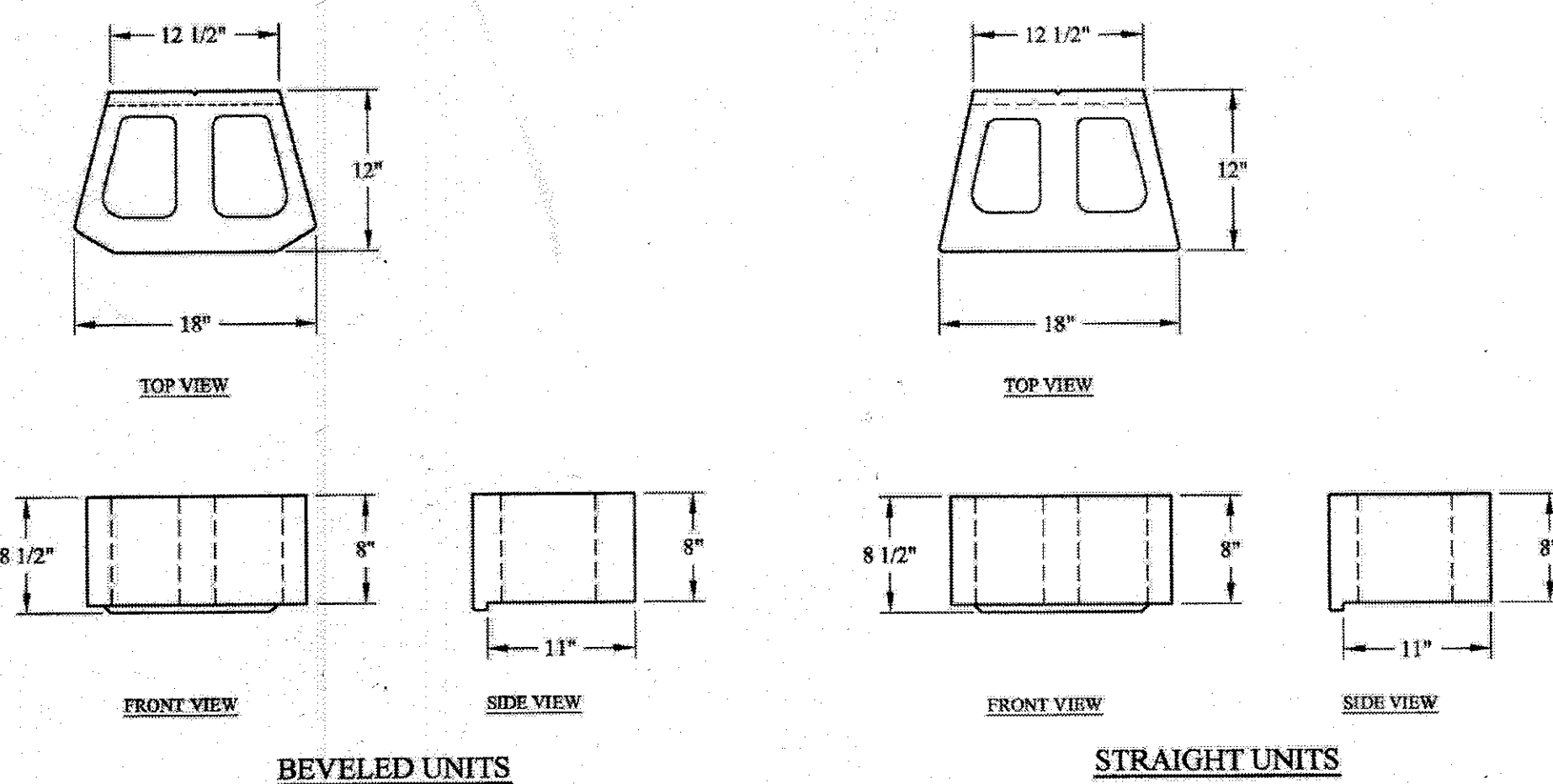
DESIGNED BY: JGH
DRAWN BY: CAG
CHECKED BY: RHV
DATE: 1/89
SCALE: AS SHOWN
W.O. NO: 4488008A



1 Proposed Wall Plan
A-1 Scale: 1/8" = 1'-0"



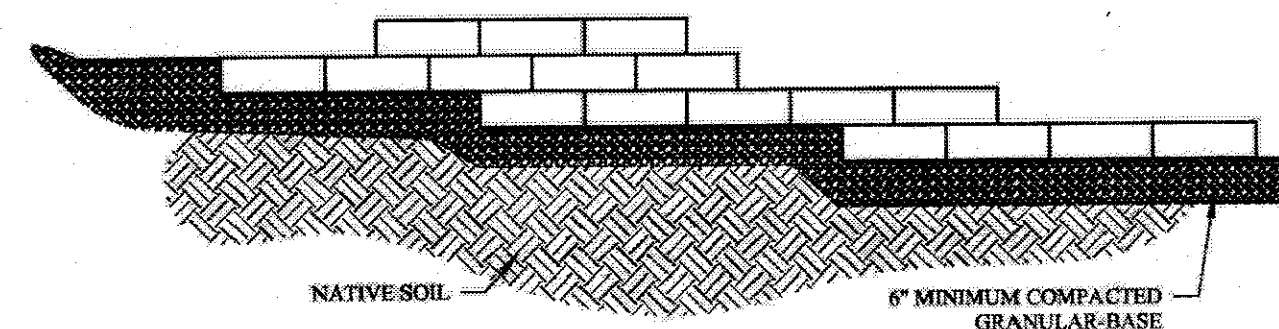
2 Proposed Wall Elevation
A-1 Scale: 1/8" = 1'-0"



ANCHOR BUILD SOMETHING BEAUTIFUL
Anchor Wall Engineering, LLC
5959 Baker Road, Suite 390
Minnetonka, MN 55345

These graphic representations are intended for preliminary design purposes only and are not to be used for construction without the signature of a registered professional engineer.

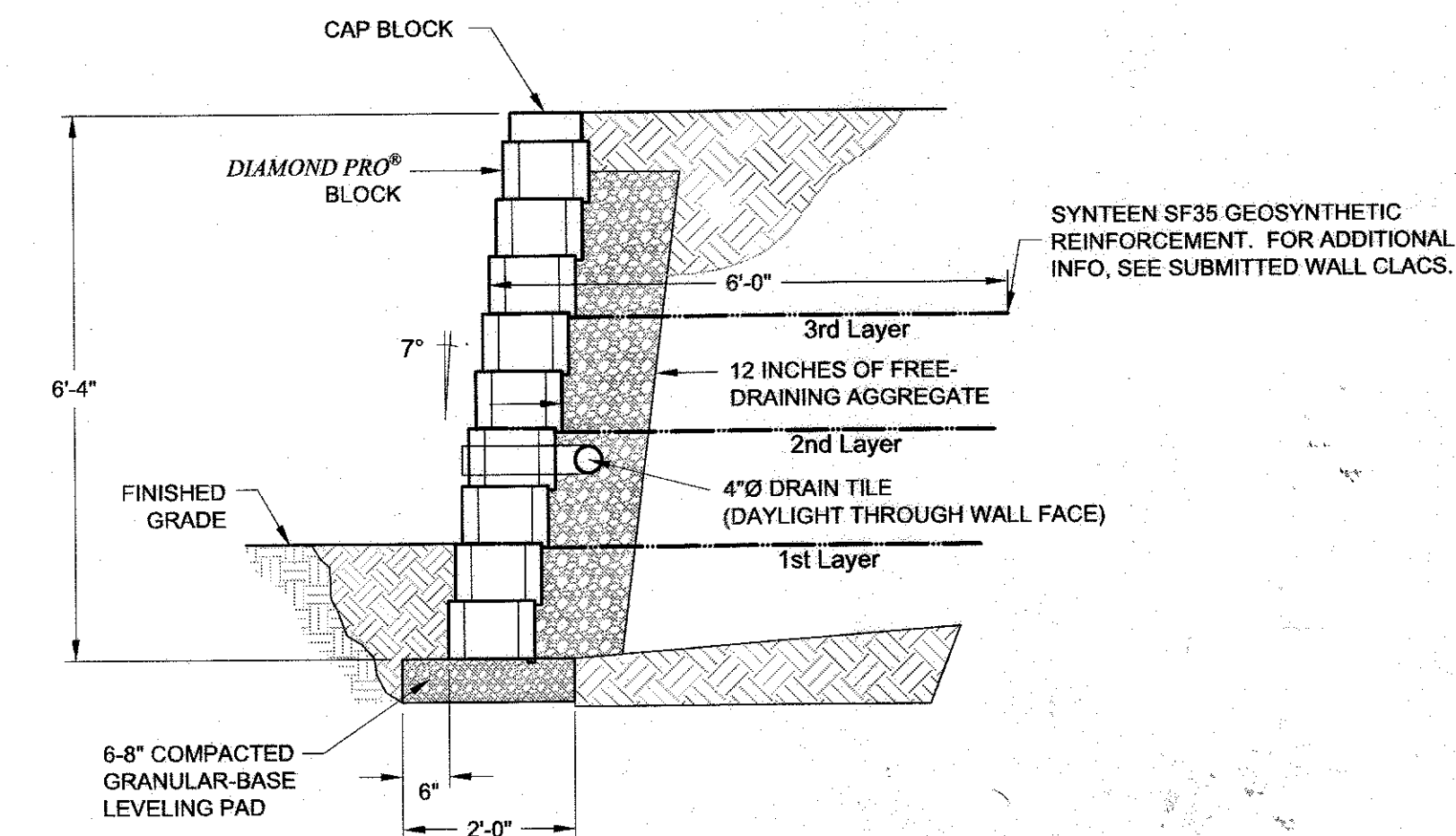
Drawn By: AWE
Date: 3/18/2008
Scale: None
Project Information: Typical Retaining Wall Details
www.anchorwall.com



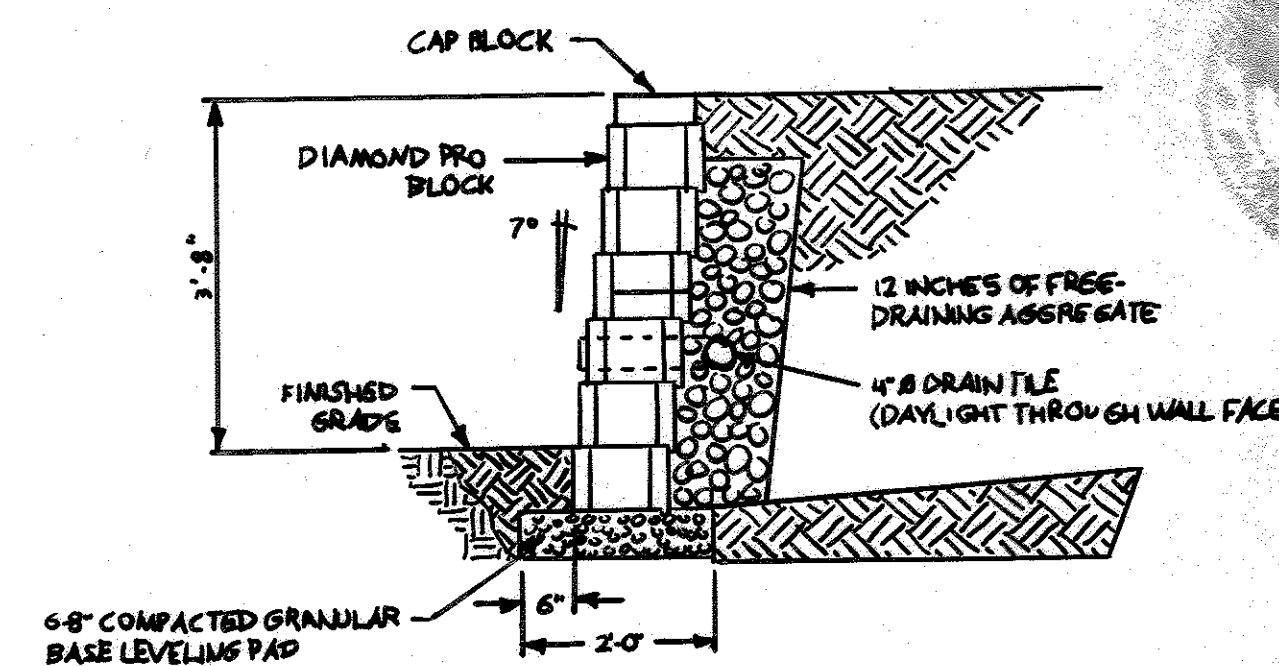
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Minnetonka, MN 55345

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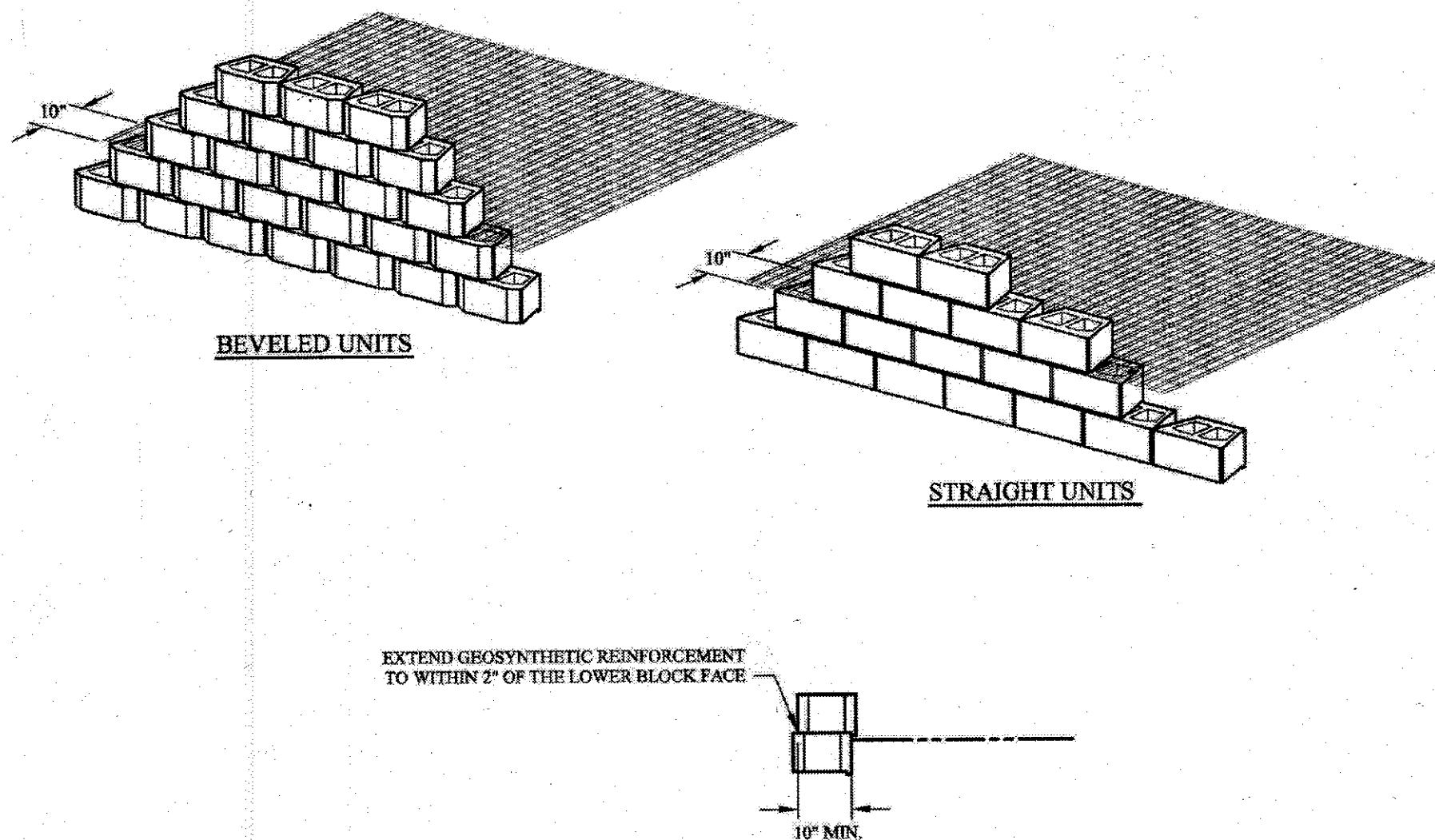
Drawn By: AWE
Date: 3/18/2008
Scale: None
Project Information: Typical Retaining Wall Details
www.anchorwall.com



3 Proposed Wall Section
A-1 Scale: 1/2" = 1'-0"



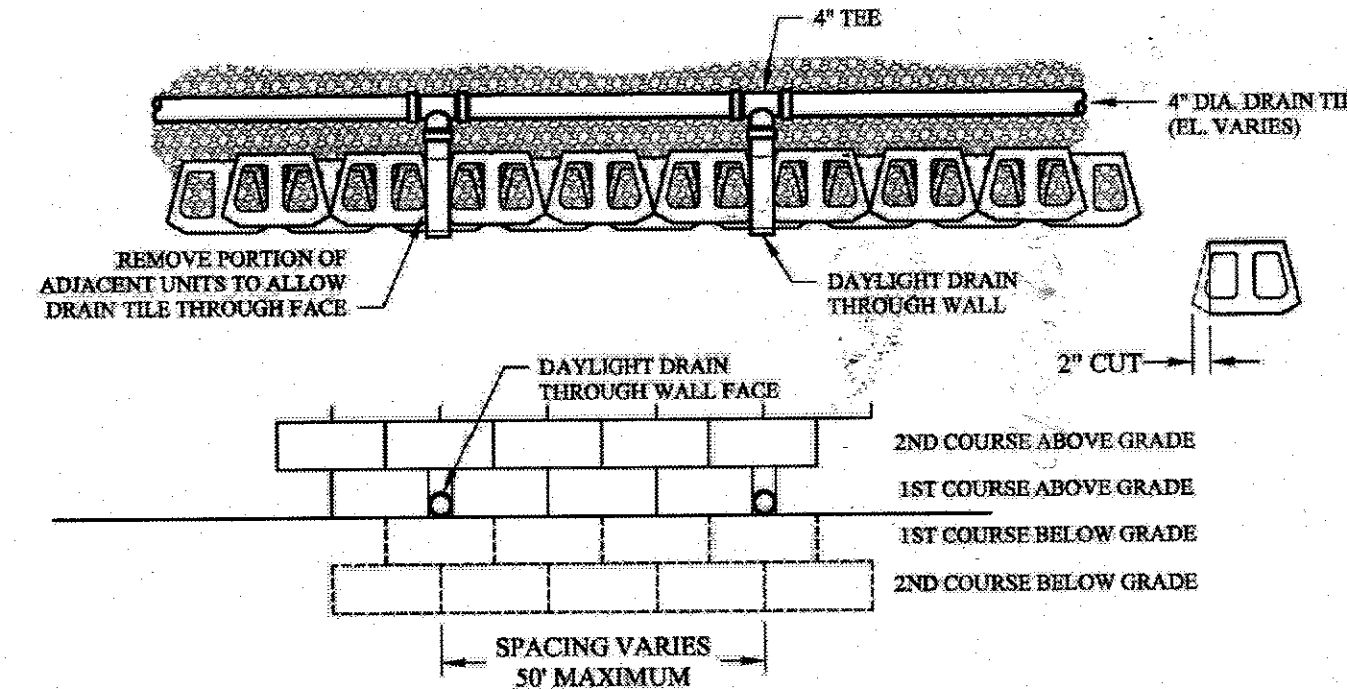
4 Proposed Wall Section
A-1 Scale: 1/2" = 1'-0"



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Minnetonka, MN 55345

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Drawn By: AWE
Date: 3/18/2008
Scale: None
Project Information: Typical Retaining Wall Details
www.anchorwall.com



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Drawn By: AWE
Date: 3/18/2008
Scale: 3/8" = 1'-0"
Project Information: Typical Retaining Wall Details
www.anchorwall.com

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 8-26-15
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 8-27-15
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 8-27-15
DIRECTOR DATE

Jerry L. Foster, P.E.
P.E. No. 9978

Design & Build
3913 Mountain Road
Pasadena, MD 21122
Office: 410.360.5263
Fax: 410.360.3955

LANDMARK ASSOCIATES, LLC.

Sheet Title: **Construction Drawings**

Project Name: **Greystone**
College at St. Paul Townhomes
Howard County, Maryland

Date: 5-14-15
Date: 9/29/2016
Detail: 4-A-1
Remove & replace
conc. block wall.

Scale: Varies
Drawn By: DJW

Sheet Drawing No. **12**