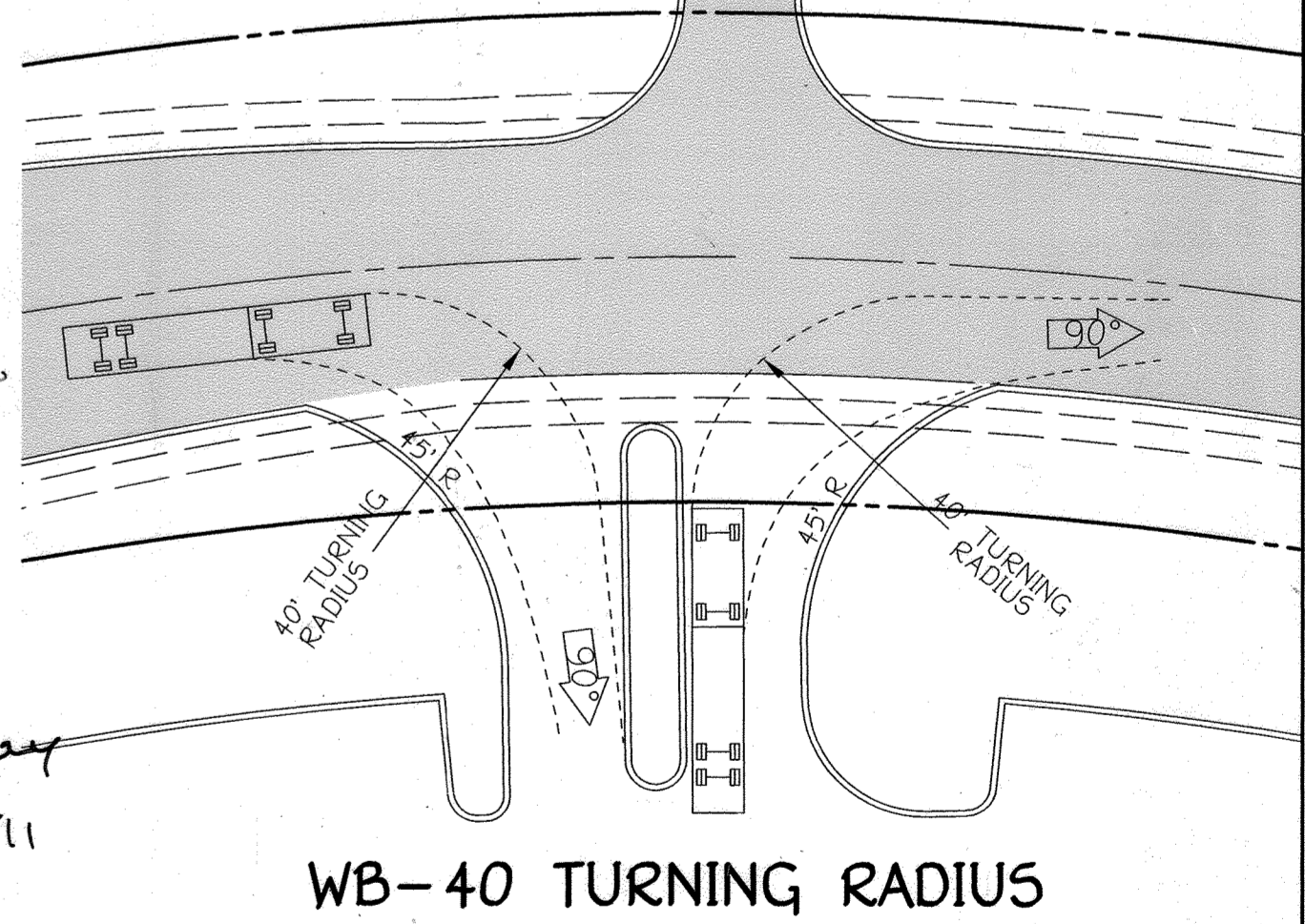


* DENOTES PROPOSED 12' STREET LIGHT, POST TOP MOUNTED LIGHT FIXTURE.

* THE DOMESTIC WATER HOUSE CONNECTION FOR UNIT 7 (BUILDING 'B'), UNIT 6 (BUILDING 'C') & UNIT 8 (BUILDING 'D') SHALL BE "SPLIT" FROM THE 4" WATER MAIN (SPRINKLER LINE) WITHIN THE MECHANICAL ROOM.

WARWICK WAY
MAJOR COLLECTOR

Note: See Sheets 15-18 For Milestone Compound And Tree Pole Plant Details



WB-40 TURNING RADIUS

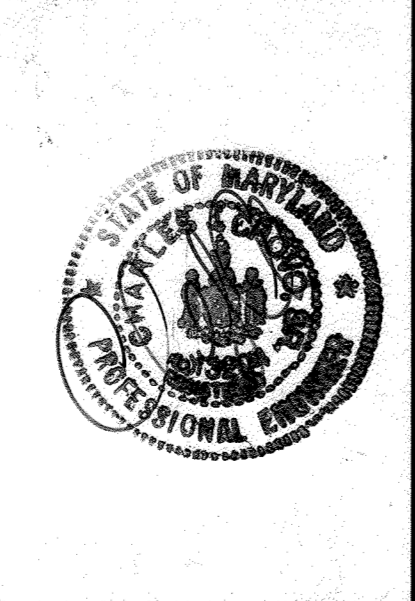
SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21114
410.461.2855

DRAFT: J. LAMKE
DESIGN: R. ISAACS
CHECK: C. CROVO SR.

NO.	REVISION	DATE
8	ADDED SHEETS 16-18	7-26-21
7	REVISE PLAN TO ADD 340SF PATIO SPACE	9/19/14
6	REVISE PLAN TO ADD 300 SF PATIO SPACE	6/9/2011
5	Add Chimney & Fan Rm. to Bldg. 'A'	9-9-08
4	Revise Storm Drain Outfall to Tie to Ex. Grd.	1/20/06
3	Add Porches and show 1.0' expansion to front porch for Buildings 'B' & 'C'	8-29-05
2	Add sidewalks behind Bldgs 'B', 'C' & 'D'	10-29-04
1	ADD ELECTRICAL CLOSETS TO BLDG. 'B', 'C' & 'D'	9/1/04



ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

John R. Robertson
Signature of Engineer
10/13/03 Date

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

John R. Robertson
Signature of Developer
10/13/03 Date

Reviewed for HOWARD SCD and meets Technical Requirements.
John R. Robertson 10-22-03 Date
John R. Robertson 10-22-03 Date

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELLCOTT CITY, MARYLAND 21043
(410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

John A. Gagliardi 10/28/03 Date
John A. Gagliardi 10/28/03 Date
John A. Gagliardi 10/28/03 Date

PROJECT: GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
16022-16027	4	PEC	16	3rd.	6030.00

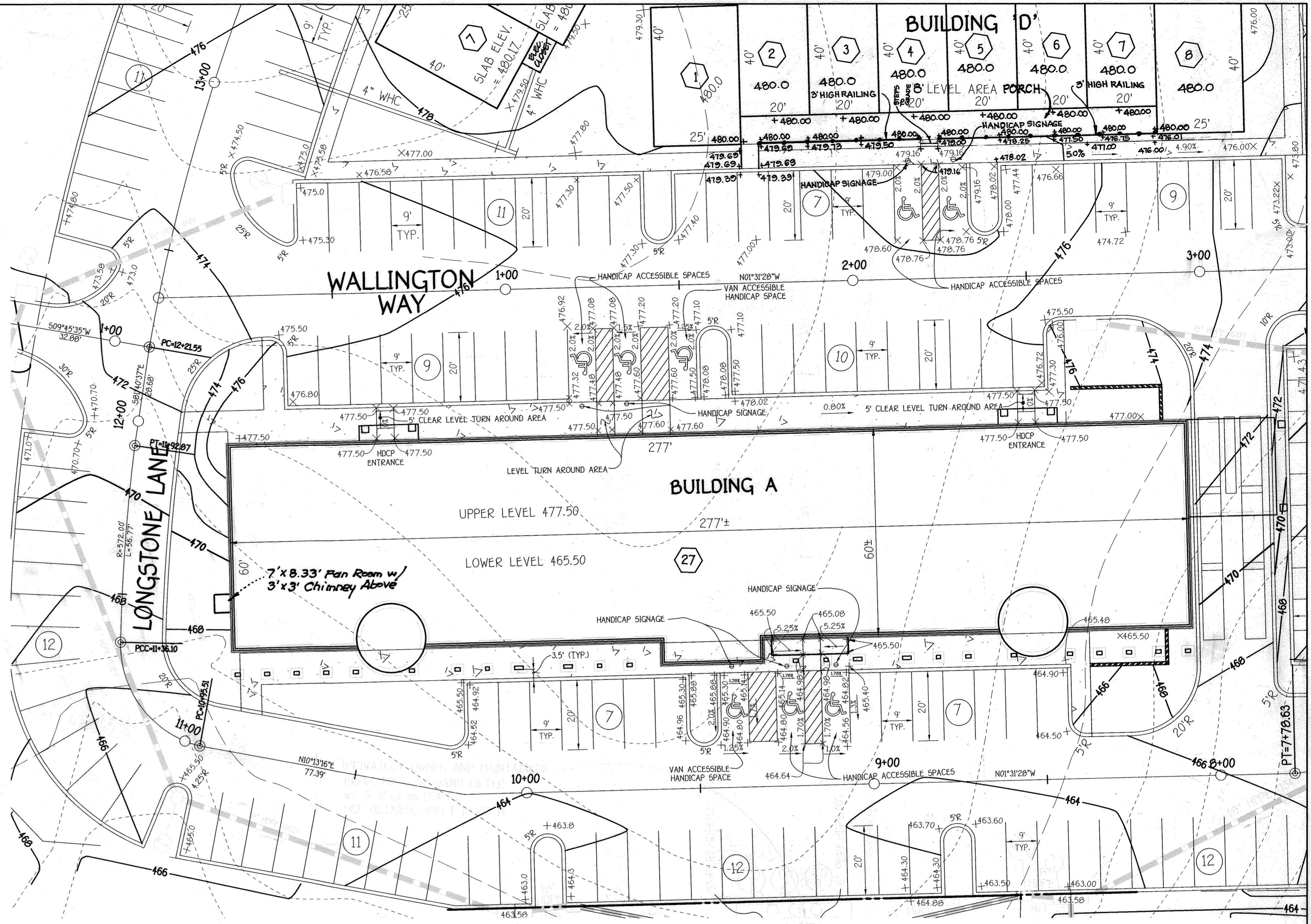
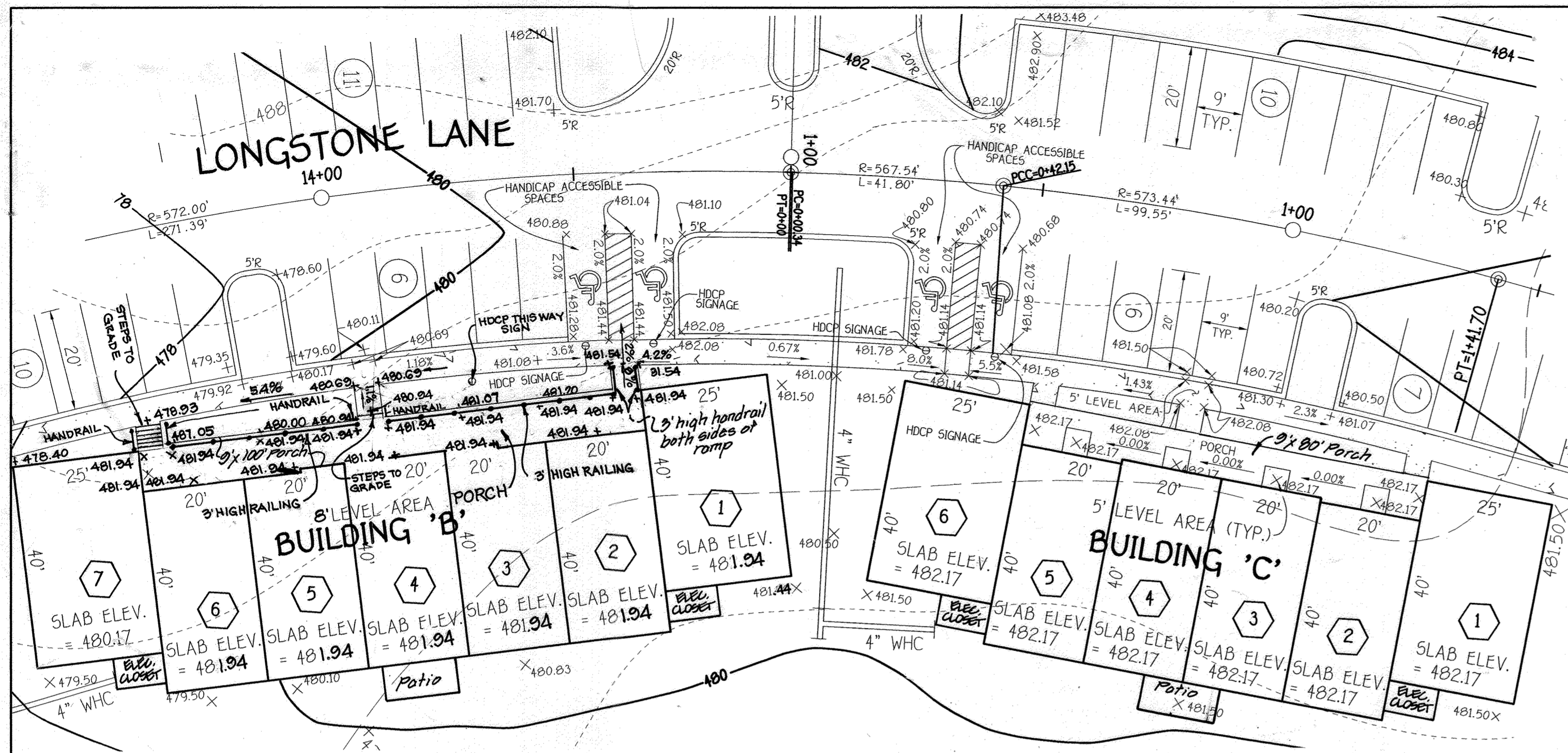
WATER CODE: H 05 SEWER CODE: 5992000

SITE DEVELOPMENT PLAN

GTW'S WAVERLY WOODS
SECTION 7
PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: OCTOBER 10, 2003
SHEET 2 OF 18

SDP-03-046



CONSTRUCTION SPECIFICATIONS FOR UNDERGROUND SAND FILTER

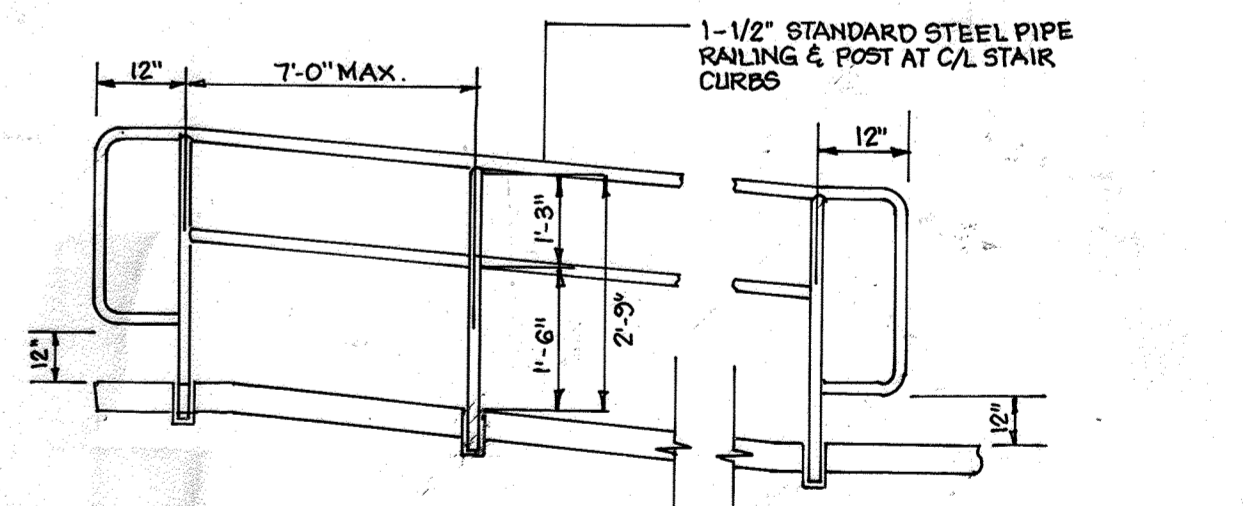
- B.3.A SAND FILTER SPECIFICATIONS
- a) MATERIAL SPECIFICATIONS FOR SAND FILTERS
 - 1) THE ALLOWABLE MATERIALS FOR SAND FILTER CONSTRUCTION ARE DETAILED IN TABLE B.3.1.
 - b) SAND FILTER TESTING SPECIFICATIONS
 - 1) UNDERGROUND SAND FILTERS, FACILITIES WITHIN SENSITIVE GROUNDWATER AQUIFERS, AND FILTERS DESIGNED TO SERVE URBAN HOT SPOTS ARE TO BE TESTED FOR WATER TIGHTNESS PRIOR TO PLACEMENT OF FILTER MEDIA. ENTRANCES AND EXITS SHOULD BE PLUGGED AND THE SYSTEM COMPLETELY FILLED WITH WATER TO DEMONSTRATE WATER TIGHTNESS. WATER TIGHTNESS MEANS NO LEAKAGE FOR A PERIOD OF 8 HOURS.
 - 2) ALL OVERFLOW WEIRS, MULTIPLE ORIFICES AND FLOW DISTRIBUTION SLOTS ARE TO BE FIELD-TESTED TO VERIFY ADEQUATE DISTRIBUTION OF FLOWS.
 - c) SAND FILTER CONSTRUCTION SPECIFICATIONS
 - 1) PROVIDE SUFFICIENT MAINTENANCE ACCESS FOR UNDERGROUND FACILITY BY ACCESS MANHOLES.
 - 2) ABSOLUTELY NO RUNOFF IS TO ENTER THE FILTER UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.
 - 3) SURFACE OF FILTER BED IS TO BE LEVEL.
 - 4) ALL UNDERGROUND SAND FILTERS SHOULD BE CLEARLY DELINEATED WITH SIGNAGE SO THAT THEY MAY BE LOCATED WHEN MAINTENANCE IS DUE.
 - d) SPECIFICATIONS PERTAINING TO UNDERGROUND SAND FILTERS (F-2)
 - 1) PROVIDE MANHOLE AND/OR GRATES TO ALL UNDERGROUND AND BELOW GRADE STRUCTURES. MANHOLES SHALL BE IN COMPLIANCE WITH STANDARD SPECIFICATIONS OF EACH COUNTRY BUT DIAMETERS SHOULD BE 30" MINIMUM (TO COMPLY WITH OFFICE OF SAFETY AND HEALTH ADMINISTRATION CONFINED SPACE REQUIREMENTS). ALUMINUM AND STEEL LOUVERED DOORS ARE ALSO ACCEPTABLE. TEN INCH WIDE MINIMUM MANHOLE STEPS (12" O.C.) SHALL BE CAST IN PLACE OR DRILLED AND MORTARED INTO THE WALL BELOW EACH MANHOLE. A 5' MINIMUM HEIGHT CLEARANCE (FROM THE TOP OF THE SAND LAYER TO THE BOTTOM OF THE UPPER/SURFACE SLAB) IS REQUIRED FOR ALL PERMANENT UNDERGROUND STRUCTURES. LIFT RINGS ARE TO BE SUPPLIED TO REMOVE/REPLACE TOP SLABS ON ALL PRE-FABRICATED STRUCTURES. MANHOLE COVERS SHOULD ALLOW FOR PROPER VENTILATION.
 - 2) UNDERGROUND SAND FILTERS SHOULD BE CONSTRUCTED WITH A GATE VALVE LOCATED JUST ABOVE THE TOP OF THE FILTER BED FOR DEWATERING IN THE EVENT THAT CLOGGING OCCURS.
 - 3) UNDERGROUND SAND BEDS SHALL BE PROTECTED FROM TRASH ACCUMULATION BY A WIDE MESH GEOTEXTILE SCREEN TO BE PLACED ON THE SURFACE OF THE SAND BED. SCREEN IS TO ROLLED UP, REMOVED, CLEANED AND REINSTALLED DURING MAINTENANCE OPERATION.

TABLE B-3.1 MATERIAL SPECIFICATION FOR SAND FILTERS

MATERIAL	SPECIFICATION/TEST METHOD	SIZE	NOTES
SAND	CLEAN AASHTO-M-60R ASTM-C-33 CONCRETE SAND	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE *10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.
PEAT	ASH CONTENT: < 15% pH RANGE: 5.2 TO 4.9 LOOSE BULK DENSITY 0.12 TO 0.15 g/cc	N/A	THE MATERIAL MUST BE REED-SEDGE HEMIC PEAT, SHREDDED, UNCOMPACTED, UNIFORM, AND CLEAN.
LEAF COMPOST	AASHTO-M-43	N/A	
UNDER DRAIN GRAVEL		0.375" TO 0.75"	
GEOTEXTILE FABRIC (IF REQ'D)	ASTM-D-4833 (PUNCTURE STRENGTH-125LB.) ASTM-D-4632 (TENSILE STRENGTH-300 LB.)	0.08" THICK EQUIVALENT OPENING SIZE OF #80 SIEVE	MUST MAINTAIN 125 gpm PER SQ. FT. FLOW RATE. NOTE: A 4" PEA GRAVEL LAYER MAY BE SUBSTITUTED FOR GEOTEXTILES MEANT TO "SEPARATE" SAND FILTERS LAYERS.
IMPERMEABLE LINER (IF REQ'D)	ASTM-D-4833 (THICKNESS) ASTM-D-412 (TENSILE STRENGTH 1100LB. ELONGATION 200%) ASTM-D-624 (TEAR RESISTANCE 150LB./IN.) ASTM-D-471 (WATER ABSORPTION *8 TO -2% MASS)	30 mil THICKNESS	LINER TO BE ULTRAVIOLET RESISTANT. A GEOTEXTILE FABRIC SHOULD BE USED TO PROTECT THE LINER FROM PUNCTURE
UNDER DRAIN PIPING	4" - 6" RIGID SCHEDULE 40 OR SDR35	F 750, TYPE PS 28 OR AASHTO M-278	PREFER 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES.
CONCRETE (CAST-IN-PLACE)	MSHA STANDARDS AND SPECS. SECTION 902, MIX NO.3, f'c= 3500 psi, NORMAL WEIGHT, AIR-ENTRAINED, REINFORCING TO MEET ASTM-615-60	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND.
CONCRETE (PRE-CAST)	PER PRE-CAST MANUFACTURER	N/A	SEE ABOVE NOTE.
NON-REBAR STEEL	ASTM A-36	N/A	STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED ASTM-A-123

NOTE: 4" WATER HOUSE CONNECTION WILL BE REQUIRED AT EACH BUILDING FOR THE PURPOSE OF FIRE PROTECTION

NOTE: ONE (1) WHC CONNECTION TO THE BUILDINGS MUST BE SUPPLIED BY THE 4" WHC FOR FIRE PROTECTION TO PREVENT STAGNATION.

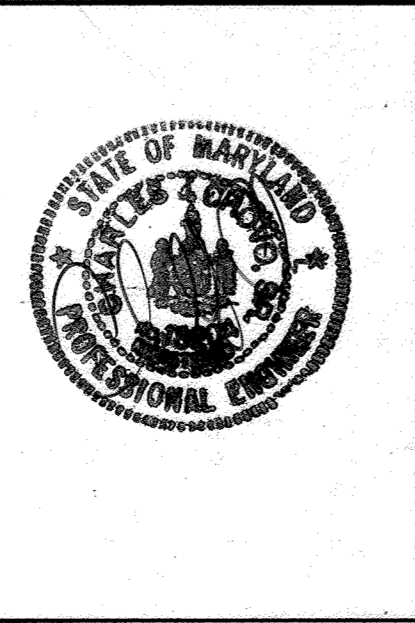


HAND RAIL DETAIL
NO SCALE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2999

DRAFT: J. LAMKE
DESIGN: R. ISAACS
CHECK: C. GROVO SR.

NO.	REVISION	DATE
1	Rev. elev. & grad. for Bldg. B & C	7-27-01
2	Add Electrical notes to Bldg. B & C	9-11-01
3	Add 10' Porch Extensions and Patios to Buildings B & C	9-29-01
4	Add Sheets 15-18	7-27-01
5	Add Form 4 Chimney to Bldg. 'A'	9-29-01
6	Rev. elev. & grad. for Bldg. B & C	7-27-01



ENGINEER'S CERTIFICATE
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.

Signature of Engineer: *[Signature]* Date: 10/13/03

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

Signature of Developer: *[Signature]* Date: 10-13-03

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for sediment and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: 10/13/03

Howard SCD Date: 10/13/03

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELICOTT CITY, MARYLAND 21043
(410) 460-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: *[Signature]* Date: 10/13/03
Signature: *[Signature]* Date: 10/13/03
Signature: *[Signature]* Date: 10/13/03

Director - Department of Planning and Zoning

PROJECT: GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'

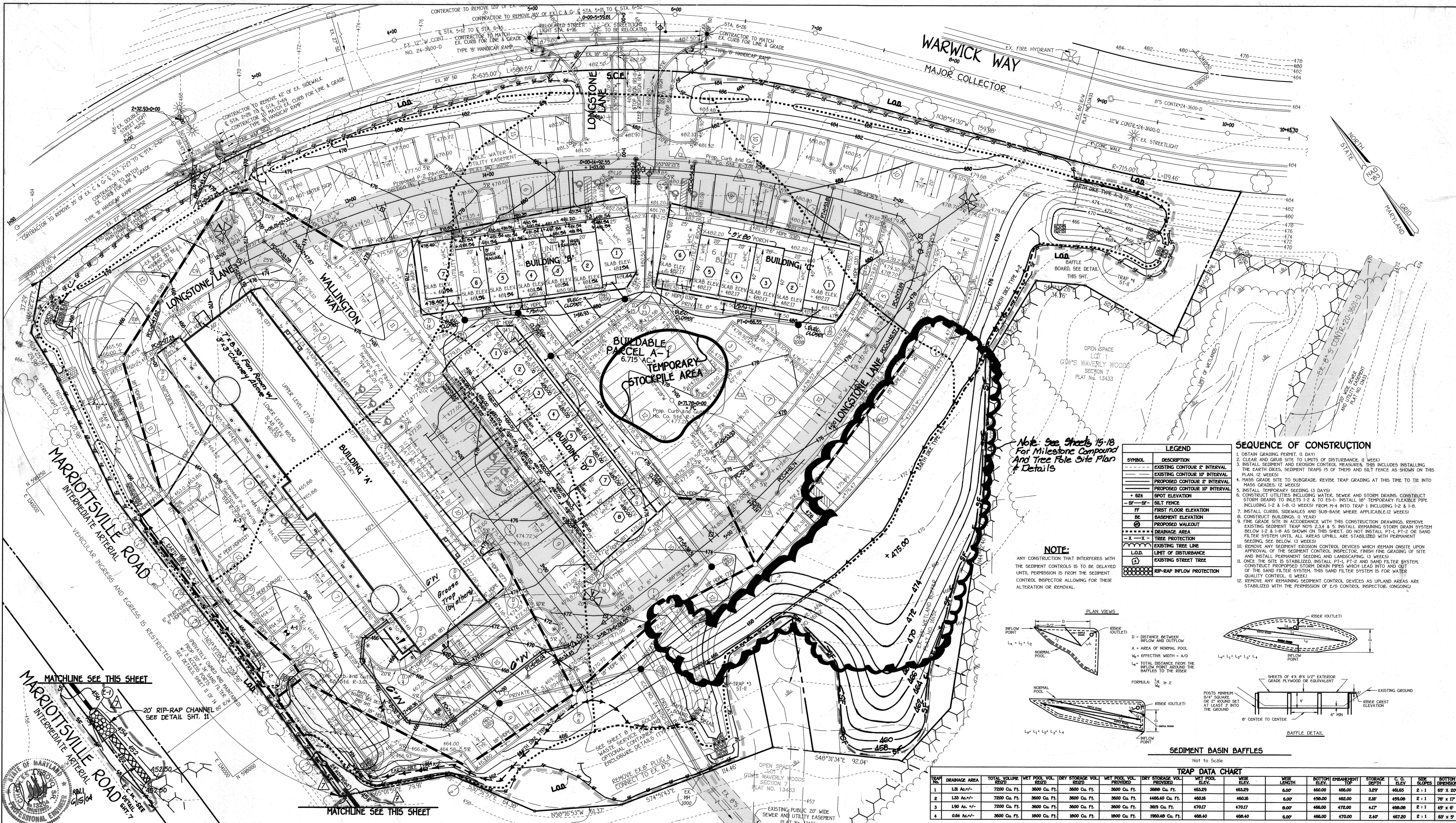
PLAT: 13439	BLOCK NO. 4	ZONE: PEC	TAX/ZONE: 16	ELEC. DIST.: 3rd	CENSUS TR.: 6030.00
WATER CODE: H 05	SEWER CODE: 5992000				

HANDICAP DETAIL PLAN

GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

TAX MAP NO: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: OCTOBER 10, 2003
SHEET 3 OF 18

SDP-03-046



Note: See sheets 15-18 For Milestone Compound And Tree Hole Site Plan & Details

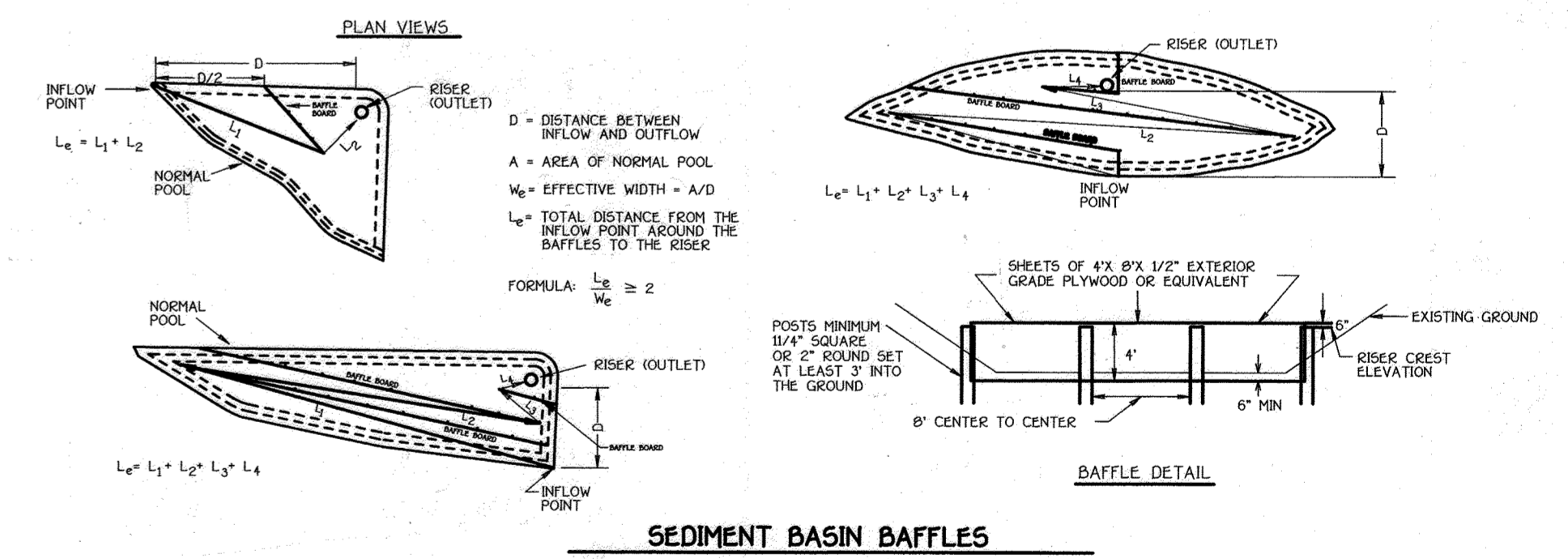
LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - -	PROPOSED CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
- - -	PROPOSED CONTOUR 10' INTERVAL
+	SPOT ELEVATION
—+—	SILT FENCE
FF	FIRST FLOOR ELEVATION
BE	BASEMENT ELEVATION
⊙	DRAINAGE WALKOUT
⊙	DRAINAGE AREA
-X-X-	TREE PROTECTION
---	EXISTING STREET LINE
L.O.D.	LIMIT OF DISTURBANCE
⊙	EXISTING STREET TREE
⊙	RIP-RAP INFLOW PROTECTION

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT (0 DAY)
 - CLEAR AND GRUB SITE TO LIMITS OF DISTURBANCE. (2 WEEK)
 - INSTALL SEDIMENT AND EROSION CONTROL MEASURES. THIS INCLUDES INSTALLING THE EARTH DIKES, SEDIMENT TRAPS (5 OF THEM) AND SILT FENCE AS SHOWN ON THIS PLAN. (2 WEEKS)
 - MASS GRADE SITE TO SUBGRADE. REVISE TRAP GRADING AT THIS TIME TO THE INTO MASS GRADES. (2 WEEKS)
 - INSTALL TEMPORARY SEEDING (3 DAYS)
 - CONSTRUCT UTILITIES INCLUDING WATER, SEWER AND STORM DRAINS. CONSTRUCT STORM DRAINS TO INLETS I-2 & TO E-1. INSTALL 18" TEMPORARY FLEXIBLE PIPE INCLUDING I-2 & I-8 (3 WEEKS) FROM M-4 INTO TRAP 1 INCLUDING I-2 & I-8.
 - INSTALL CURBS, SIDEWALKS AND SUB-BASE WHERE APPLICABLE. (2 WEEKS)
 - CONSTRUCT BUILDINGS. (1 YEAR)
 - FINE GRADE SITE IN ACCORDANCE WITH THIS CONSTRUCTION DRAWINGS. REMOVE EXISTING SEDIMENT TRAP NOS. 2, 3 & 4. INSTALL 18" SPANNING STORM DRAIN SYSTEM BELOW I-2 & I-8 AS SHOWN ON THIS SHEET. DO NOT INSTALL PT-1, PT-2 OR SAND FILTER SYSTEM UNTIL ALL AREAS UPHILL ARE STABILIZED WITH PERMANENT SEEDING. (3 WEEKS)
 - REMOVE ANY SEDIMENT EROSION CONTROL DEVICES WHICH REMAIN ON SITE UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR. FINISH FINE GRADING OF SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPING. (3 WEEKS)
 - ONCE THE SITE IS STABILIZED, INSTALL PT-1, PT-2 AND SAND FILTER SYSTEM. CONSTRUCT PROPOSED STORM DRAIN PIPES WHICH LEAD INTO AND OUT OF THE SAND FILTER SYSTEM. THIS SAND FILTER SYSTEM IS FOR WATER QUALITY CONTROL. (2 WEEKS)
 - REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED WITH THE PERMISSION OF E/S CONTROL INSPECTOR. (ONGOING)

NOTE:

ANY CONSTRUCTION THAT INTERFERES WITH THE SEDIMENT CONTROLS IS TO BE DELAYED UNTIL PERMISSION IS FROM THE SEDIMENT CONTROL INSPECTOR ALLOWING FOR THEIR ALTERATION OR REMOVAL.



TRAP DATA CHART
Not to Scale

TRAP NO.	DRAINAGE AREA	TOTAL VOLUME (CU FT.)	WET POOL VOL. (CU FT.)	DRY STORAGE VOL. (CU FT.)	WET POOL VOL. PROVIDED	DRY STORAGE VOL. PROVIDED	WET POOL ELEV.	WET LENGTH	BOTTOM ELEV.	ENHANCEMENT TOP	STORAGE DEPTH	C. G. ELEV.	SIDE SLOPES	BOTTOM DIMENSION
1	1.31 AC +/-	7250 CU FT.	3600 CU FT.	3650 CU FT.	3600 CU FT.	3650 CU FT.	463.29	6.00'	460.00	465.00	3.25'	461.65	2:1	67' X 20'
2	1.33 AC +/-	7250 CU FT.	3600 CU FT.	3650 CU FT.	3600 CU FT.	4466.40 CU FT.	460.18	6.00'	456.00	462.00	2.18'	459.06	2:1	78' X 17'
3	1.90 AC +/-	7250 CU FT.	3600 CU FT.	3650 CU FT.	3600 CU FT.	3619 CU FT.	470.17	6.00'	466.00	472.00	4.17'	468.08	2:1	45' X 6'
4	0.64 AC +/-	3650 CU FT.	1800 CU FT.	1800 CU FT.	1800 CU FT.	1960.40 CU FT.	468.40	6.00'	464.00	470.00	2.40'	467.20	2:1	63' X 9'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21043
410.461.2095

DRAFT: J. LAMKE
DESIGN: R. ISAACS
CHECK: C. CROVO SR.

NO.	REVISION	DATE
1	Rev. elev. & grad. on Bldg. B & D	6-15-04
2	Rev. elev. & grad. on Bldg. B & D	7-9-04
3	Rev. elev. & grad. on Bldg. B & D	7-9-04
4	ADD WALKWAY UNDER TO BLDG. B, C & D	9-11-04
5	ADD 200 FEET OF WATER MAIN TO SERVE BLDG. B, C & D	10-29-04
6	ADD 10' PARALLEL EXTENSION & PORTALS TO BUILDING B, C & D	0-29-05
7	REVISE STORM DRAIN OUTFALL TO TIE TO EXIST. 12" DIA. STORM DRAIN	1-20-06
8	ADD CHIMNEY & FAN RM. TO BLDG. 'A'	9-9-08
9	ADD SHEETS 15-18	7-16-11

ENGINEER'S CERTIFICATE
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.

Chad
Signature of Engineer
11/13/03 Date

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

John R. Rantow
Signature of Developer
10-13-03 Date

Reviewed for HOWARD SCD and meets Technical Requirements.

Jim Myler
10-22-03 Date
Chief, Division of Conservation Services

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

John R. Rantow
10-22-03 Date
Howard SCD

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELLSWORTH CITY, MARYLAND 21043
(410) 480-3105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

John D. Woyce
11/15/03 Date
Chief, Division of Planning and Zoning

Chad
10/29/03 Date
Director - Department of Planning and Zoning

PROJECT: GTW'S WAVERLY WOODS SECTION: 7 LOTS NO.: PARCEL 'A-1'

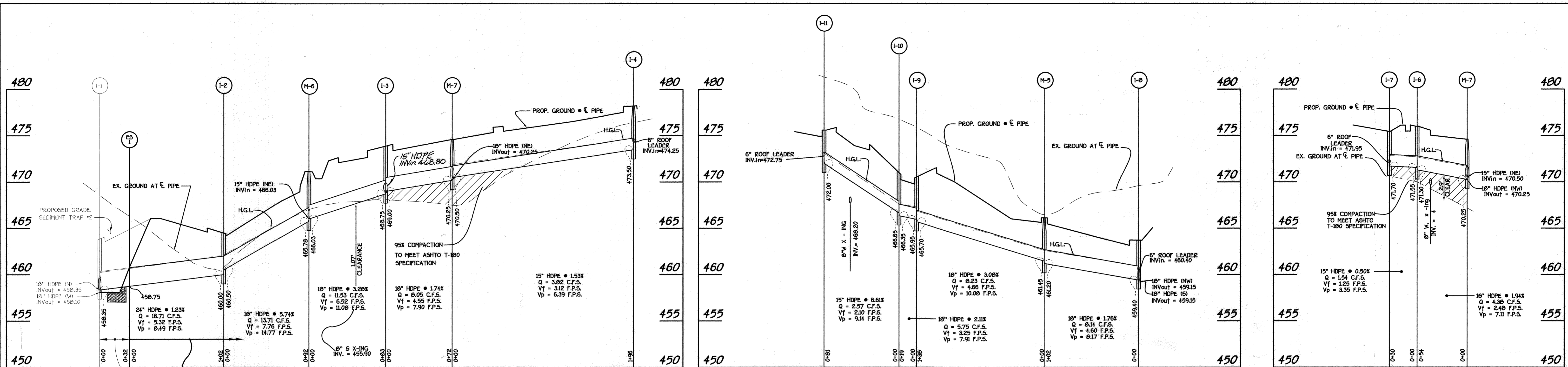
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
13433 16022-16027 16151-16152	4	PEC	15	3rd	6030.00
WATER CODE	SEWER CODE				
H 05	5992000				

SEDIMENT EROSION CONTROL PLAN

GTW'S WAVERLY WOODS
SECTION 7
PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

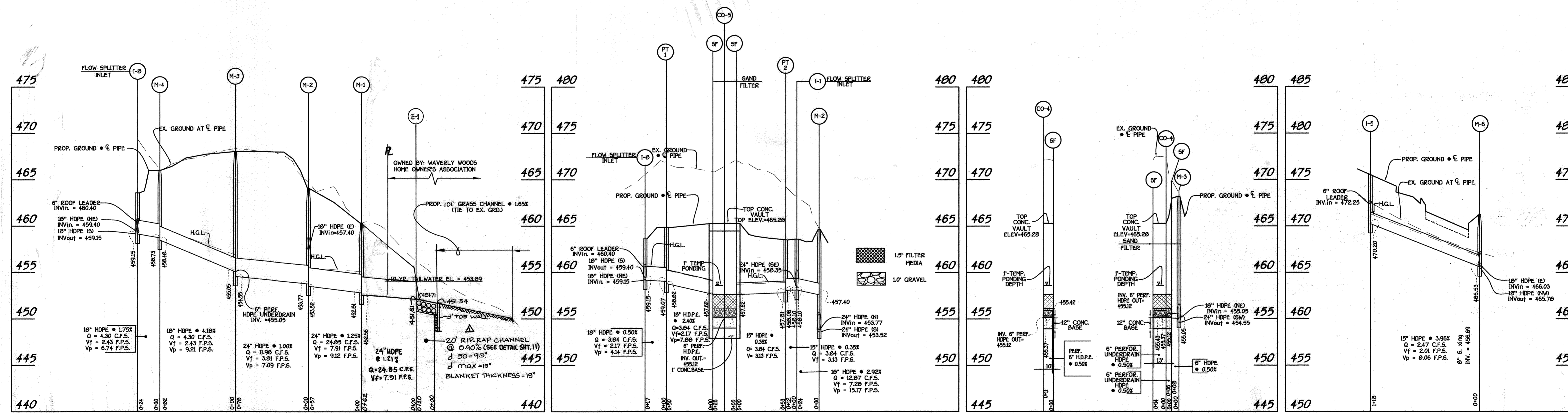
TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: OCTOBER 10, 2003
SHEET 4 OF 18

SDP-03-046



TO BE BUILT IN ACCORDANCE WITH SEQUENCE OF CONSTRUCTION NOTE #9

TO BE BUILT IN ACCORDANCE WITH SEQUENCE OF CONSTRUCTION NOTE #6



STORM DRAIN PROFILES
 SCALE: HORIZ. : 1" = 50'
 VERT. : 1" = 5'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING, CONSULTANTS, & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 16272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 481-2855

DRAFT: J. LAMKE
 DESIGN: R. ISAACS
 CHECK: C. CROVO SR.

NO.	REVISION	DATE
2	Add Sheets 15-18 & 5d Pipe Into 1-3	7-26-01
1	REVISE STORM DRAIN OUTFALL TO TIE TO EX. GRD.	1/20/06

ENGINEER'S CERTIFICATE
 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.

Signature of Engineer: *Chick* Date: 11/13/02

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

Signature of Developer: *Paul J. S.* Date: 10/13/03

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A.-Natural Resources Conservation Service
 Date: _____

This development plan is approved for sediment and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD Date: _____

OWNER / DEVELOPER
 WAVERLY WOODS DEVELOPMENT CORPORATION
 c/o LAND DESIGN & DEVELOPMENT
 8000 MAIN STREET
 ELICOTT CITY, MARYLAND 21043
 (410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development Date: 11/5/05
 Chief, Development Engineering Division Date: 10/29/05
 Director - Department of Planning and Zoning Date: 12/15/05

PROJECT	SECTION	LOTS NO.
GTW'S WAVERLY WOODS	7	PARCEL 'A-1'

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
13439	4	PEC	16	3rd	6030.00

WATER CODE: H 05 SEWER CODE: 5992000

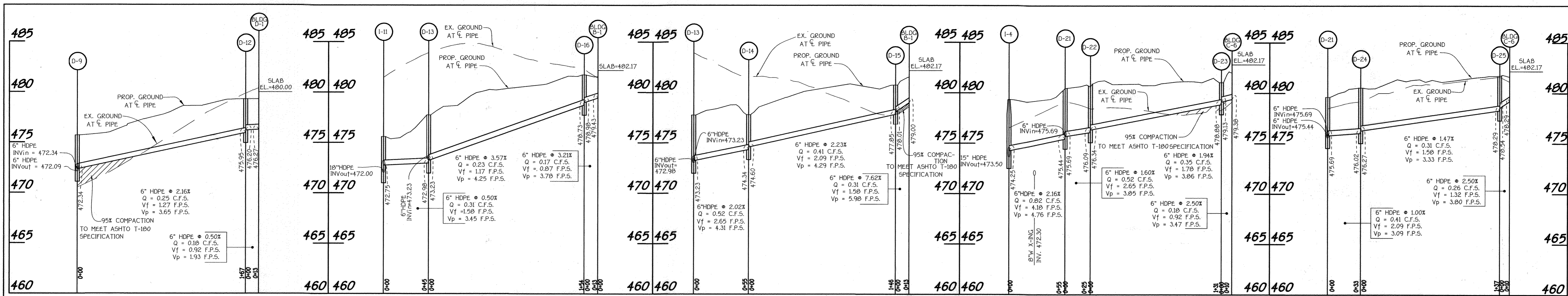
**SITE DEVELOPMENT PLAN
 STORM DRAIN PROFILES**

**GTW'S WAVERLY WOODS
 SECTION 7
 PARCEL 'A-1'**

**BUILDING 'A', BUILDING 'B' UNITS 1-7,
 BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8**

TAX MAP No: 16 P/O PARCEL: 424
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 10, 2003
 SHEET 5 OF 18

SDP-03-046



PROFILE (D-9 TO D-12)

PROFILE (I-11 TO D-16)

PROFILE (D-13 TO D-15)

PROFILE (I-4 TO D-15)

PROFILE (D-21 TO D-25)

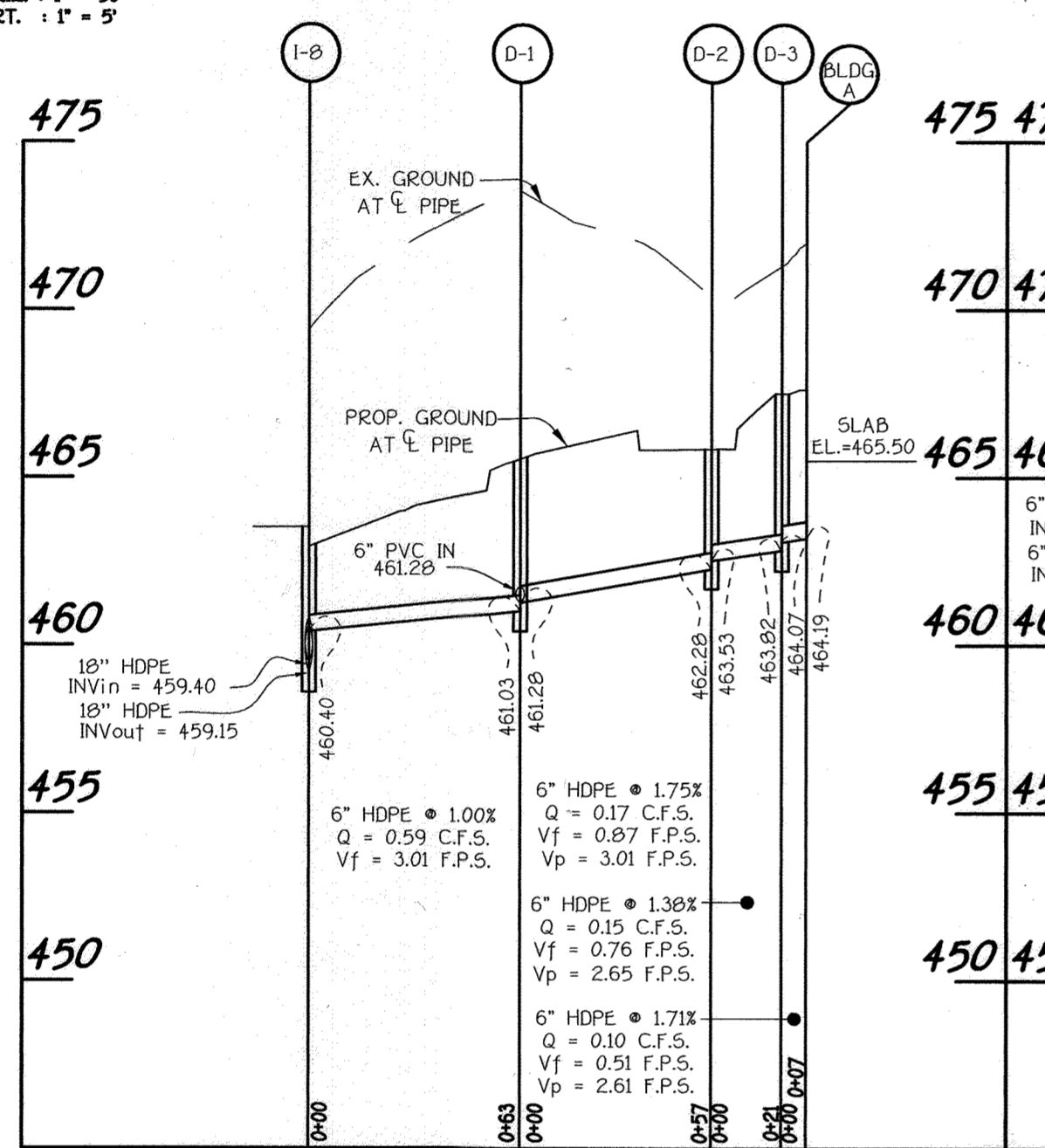
SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'

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

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

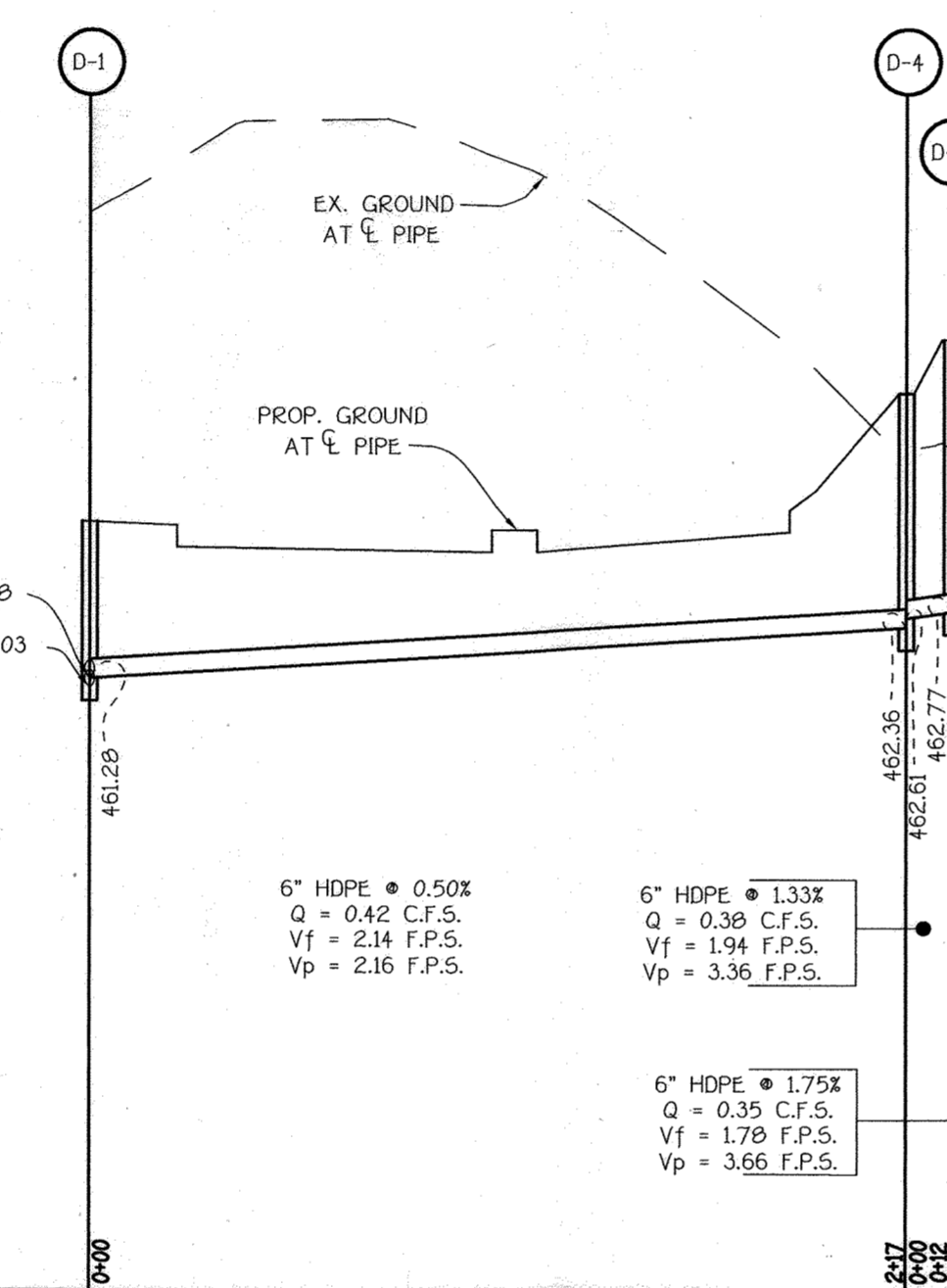
SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'

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



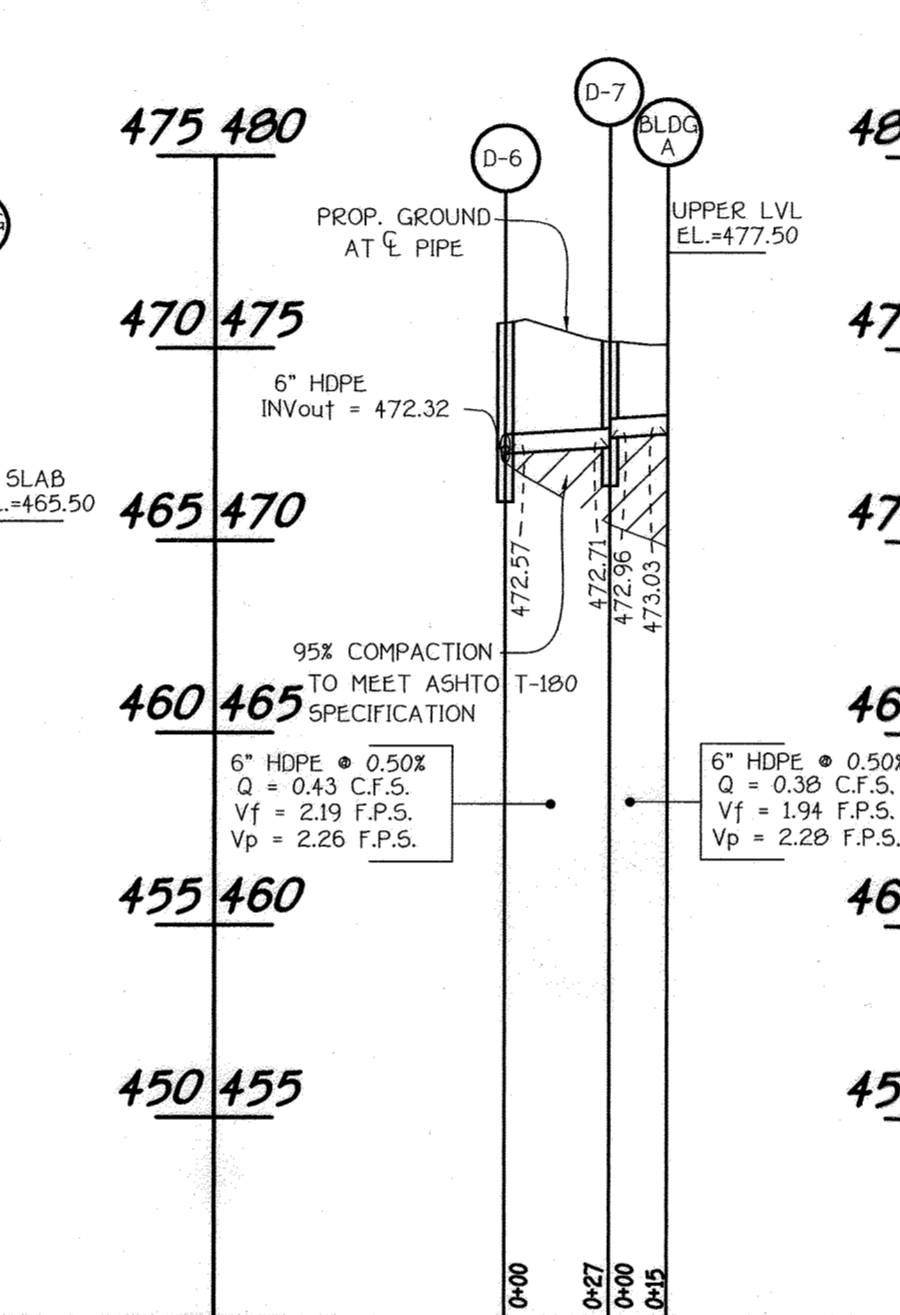
PROFILE (D-3 TO I-8)

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



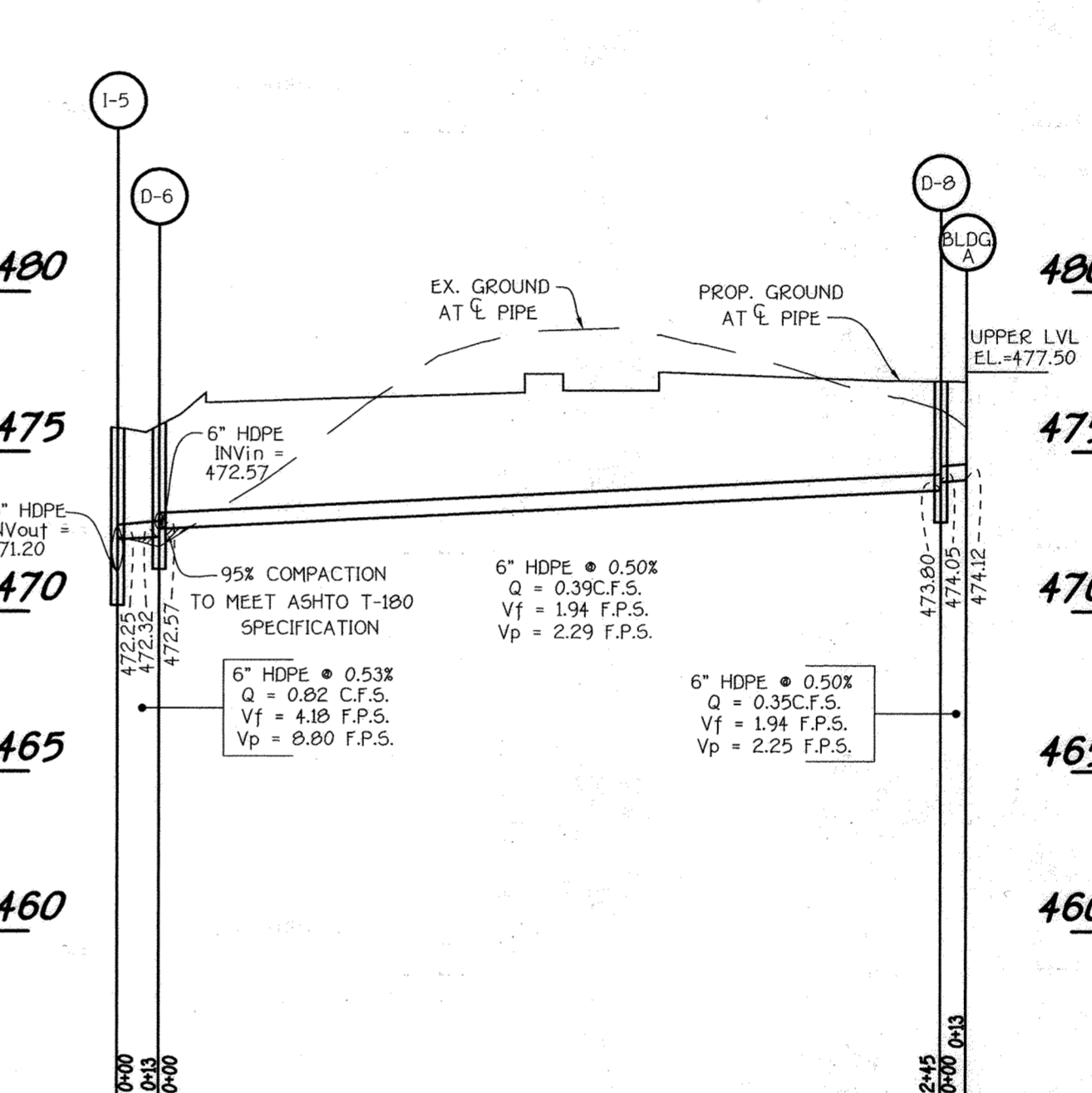
PROFILE (D-1 TO D-5)

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



PROFILE (D-7 TO D-6)

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

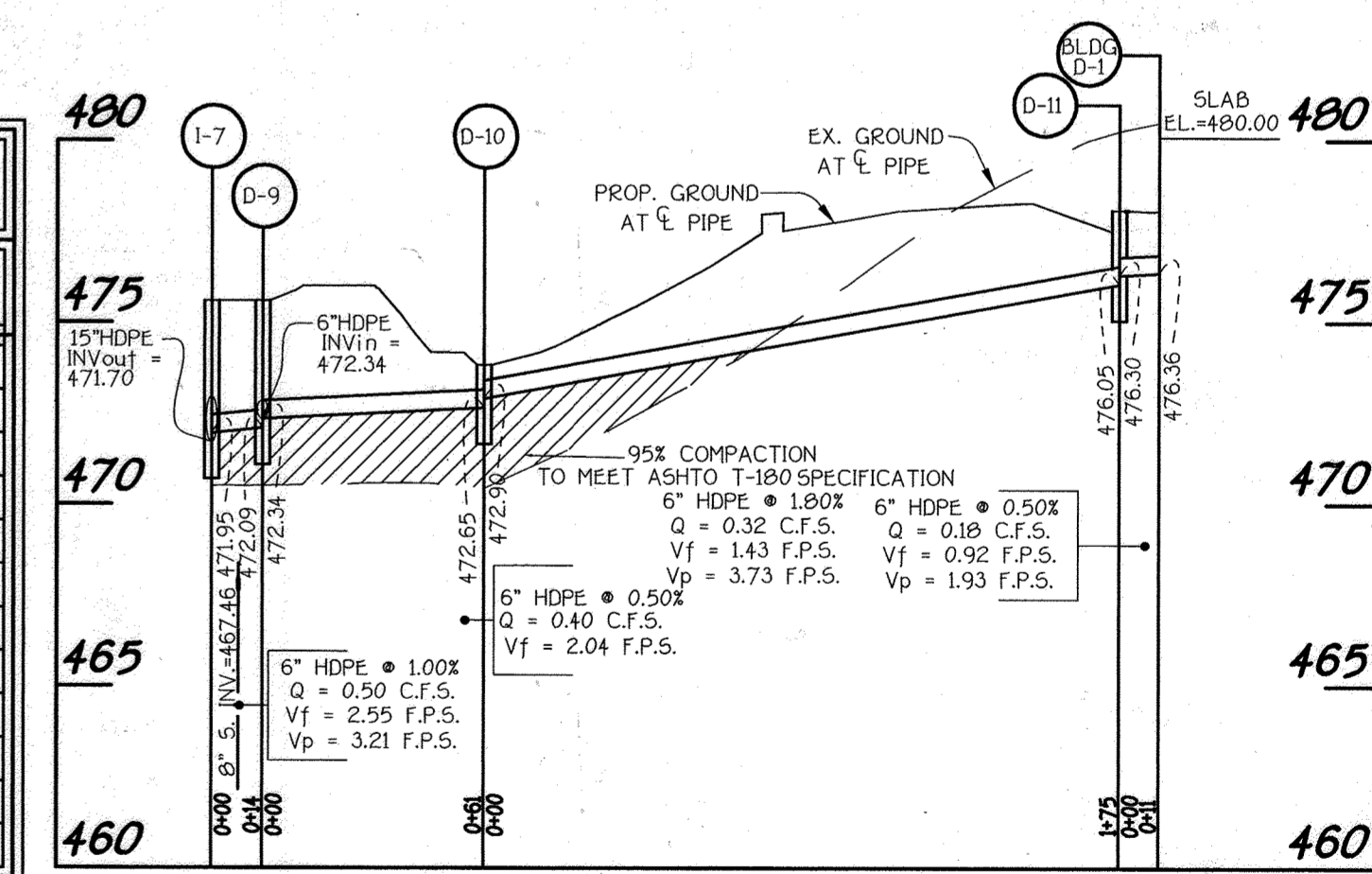


PROFILE (I-5 THRU D-6 TO D-8)

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

STRUCTURE SCHEDULE - ROOF LEADERS								
STRUCTURE NO.	TOP ELEVATION	INV.IN	INV.OUT	ROAD NAME	NORTH	EAST	TYPE	REMARKS
D-1	465.45	461.28 (2)	461.03	LONGSTONE LANE	598211.24	1341133.51	ROOF LEADER C/O	
D-2	465.80	463.53	462.28	LONGSTONE LANE	598273.52	1341130.76	ROOF LEADER C/O	
D-3	467.50	464.07	463.82	LONGSTONE LANE	598274.06	1341151.24	ROOF LEADER C/O	
D-4	468.58	462.61	462.36	LONGSTONE LANE	597997.55	1341143.19	ROOF LEADER C/O	
D-5	470.10	463.02	462.77	LONGSTONE LANE	597998.01	1341155.75	ROOF LEADER C/O	
D-6	475.80	472.57 (2)	472.32	LONGSTONE LANE	598023.31	1341233.37	ROOF LEADER C/O	
D-7	474.62	472.96	472.71	LONGSTONE LANE	597996.06	1341233.83	ROOF LEADER C/O	
D-8	476.38	474.05	473.80	LONGSTONE LANE	598268.26	1341218.94	ROOF LEADER C/O	
D-9	475.60	472.34 (2)	472.09	LONGSTONE LANE	597975.51	1341352.23	ROOF LEADER C/O	
D-10	473.82	472.90	472.65	WALLINGTON WAY	597969.11	1341291.46	ROOF LEADER C/O	
D-11	478.08	476.30	476.05	WALLINGTON WAY	598144.67	1341286.54	ROOF LEADER C/O	
D-12	479.10	476.20	475.95	WALLINGTON WAY	598141.94	1341347.85	ROOF LEADER C/O	
D-13	477.41	473.23 (2)	472.98	LONGSTONE LANE	598234.41	1341324.94	ROOF LEADER C/O	

STRUCTURE SCHEDULE - ROOF LEADERS								
STRUCTURE NO.	TOP ELEVATION	INV.IN	INV.OUT	ROAD NAME	NORTH	EAST	TYPE	REMARKS
D-14	477.87	474.60	474.34	WALLINGTON WAY	598186.48	1341299.02	ROOF LEADER C/O	
D-15	480.75	478.01	477.85	WALLINGTON WAY	598116.98	1341427.38	ROOF LEADER C/O	
D-16	481.72	478.98	478.73	WALLINGTON WAY	598169.43	1341464.95	ROOF LEADER C/O	
D-21	479.60	475.69 (2)	475.44	LONGSTONE LANE	598019.03	1341557.72	ROOF LEADER C/O	
D-22	480.31	476.34	476.09	LONGSTONE LANE	598011.22	1341533.95	ROOF LEADER C/O	
D-23	481.06	479.13	478.88	LONGSTONE LANE	598105.37	1341444.05	ROOF LEADER C/O	
D-24	480.52	476.27	476.02	LONGSTONE LANE	598043.98	1341578.91	ROOF LEADER C/O	
D-25	471.20	478.54	478.29	LONGSTONE LANE	598147.24	1341487.80	ROOF LEADER C/O	



PROFILE (I-7 TO D-9 TO D-10 TO D-11)

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

FISHER, COLLINS & CARTER, INC.
CIVIL, ENGINEERING, CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 18272 BALTIC NATIONAL PIKE
ELICOTT CITY, MARYLAND 21043
410 461-2855

DRAFT: J. LAMKE
DESIGN: R. ISAACS
CHECK: C. GROVO SR.

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S CERTIFICATE
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.

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

NO. 1 Add Sheets 15-1B REVISION DATE 7-26-21

ENGINEER'S CERTIFICATE
Reviewed for HOWARD SCD and meets Technical Requirements.
U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELICOTT CITY, MARYLAND 21043
(410) 460-3005

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Planning & Zoning Division
Director - Department of Planning and Zoning

PROJECT: GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'

PLAT: 13439 BLOCK NO. 4 ZONE 16 TAX/ZONE 16 ELEC. DIST. 3rd CENSUS TR. 6030.00

WATER CODE H 05 SEWER CODE 5992000

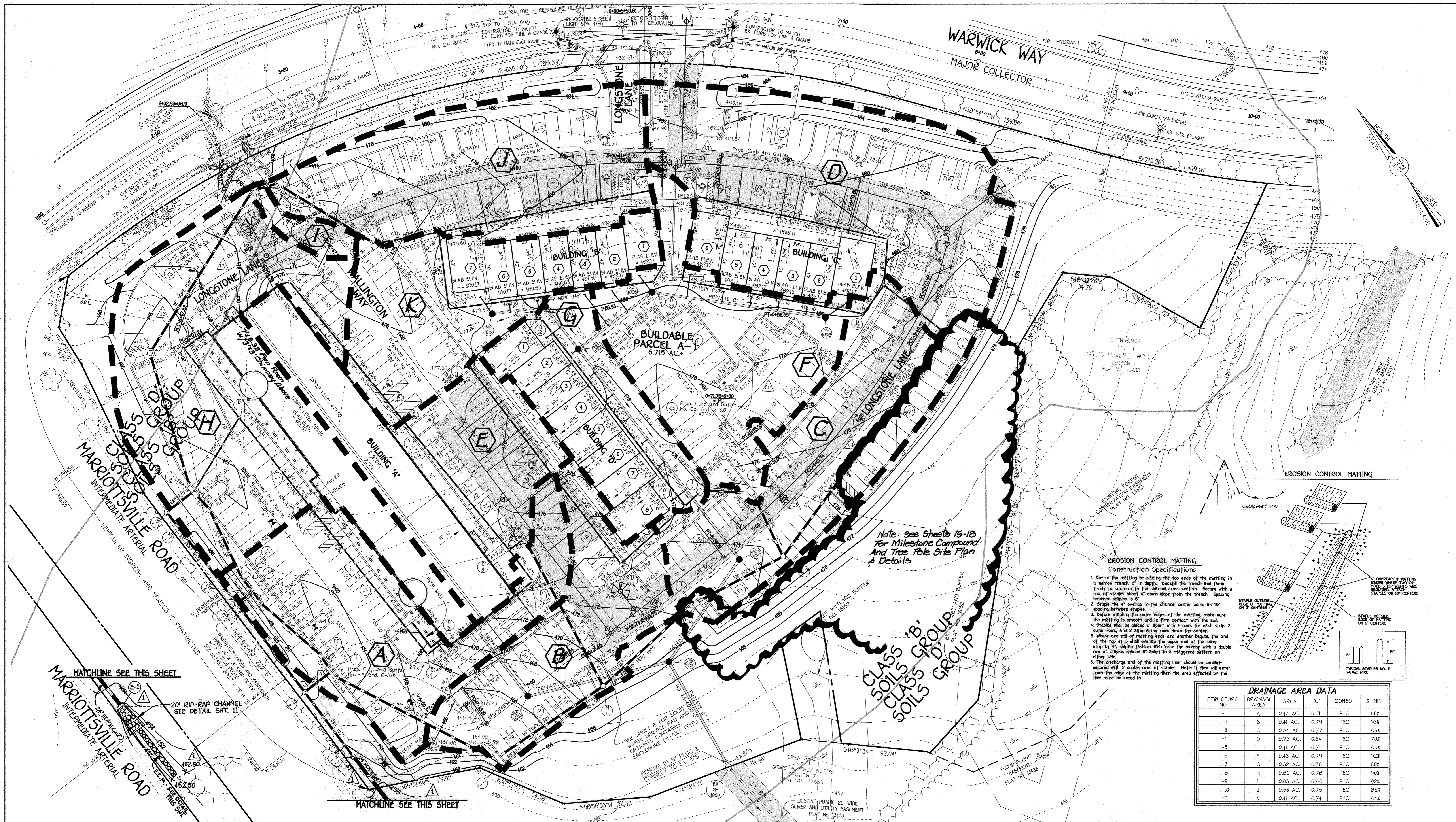
STORM DRAIN PROFILES-ROOF LEADERS

GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'

BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

TAX MAP NO: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: OCTOBER 10, 2003
SHEET 6 OF 18

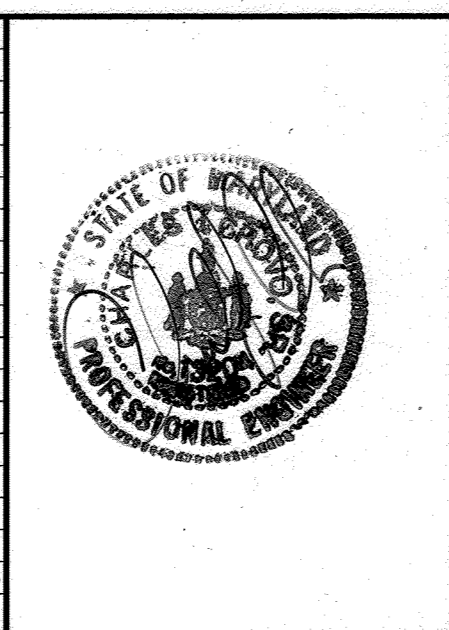
SDP-03-046



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10277 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
410.401.2955

DRAFT: J. LAMKE
DESIGN: R. ISAACS
CHECK: C. CROVO SR.

NO.	REVISION	DATE
3	Add Sheets 15-18	7-21-01
2	Add Fan Room & Chimney to Bldg. 'A'	9-9-00
1	REVISE STORM DRAIN OUTFALL TO TIE TO EX. 600	1/20/00



ENGINEER'S CERTIFICATE
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.

Signature of Engineer: *[Signature]* Date: 10/12/03

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

Signature of Developer: *[Signature]* Date: 10-13-03

Approved for HOWARD SCD and meets Technical Requirements.

U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD Date: _____

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELICOTT CITY, MARYLAND 21043
(410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development
Chief, Development Engineering Division
Director - Department of Planning and Zoning

11/5/02
10/20/03
12/15/02

PROJECT: GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'

PLAT: 13439 BLOCK NO. 4 ZONE PEC TAX/ZONE 16 ELEC. DIST. 3rd. CENSUS TR. 6030.00

WATER CODE: H 05 SEWER CODE: 5992000

STORMDRAIN DRAINAGE AREA MAP

GTW'S WAVERLY WOODS SECTION 7
PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6 & BUILDING 'D' UNITS 1-8

TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: OCTOBER 10, 2003
SHEET 7 OF 18

SDR-03-046

STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Vegetation as cover for bare soil to protect it from erosion... DEFINITION... Vegetative stabilization operations are used to promote the stabilization of vegetation on exposed soil.

1. Incremental Stabilization - Cut Slopes... 2. Incremental Stabilization of Embankments - Fill Slopes... Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading...

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS... A. Site Preparation... 1. Treat erosion and sediment control structures... 2. Perform all grading operations at right angles to the slope.

SECTION 2 - TEMPORARY SEEDING

Vegetation - annual grass or grain used to provide cover on disturbed areas for up to 12 months. For longer duration of vegetative cover, Permanent Seeding is required.

A. Seed mixtures - Temporary Seeding

Table with 7 columns: No., Species, Application Rate (lb/ac), Seeding Dates, Seeding Depth, Fertilizer Rate (lb/1000sq ft), Lime Rate. Includes rows for Barely or Rye Plus Ryegrass and Ryegrass Mixture.

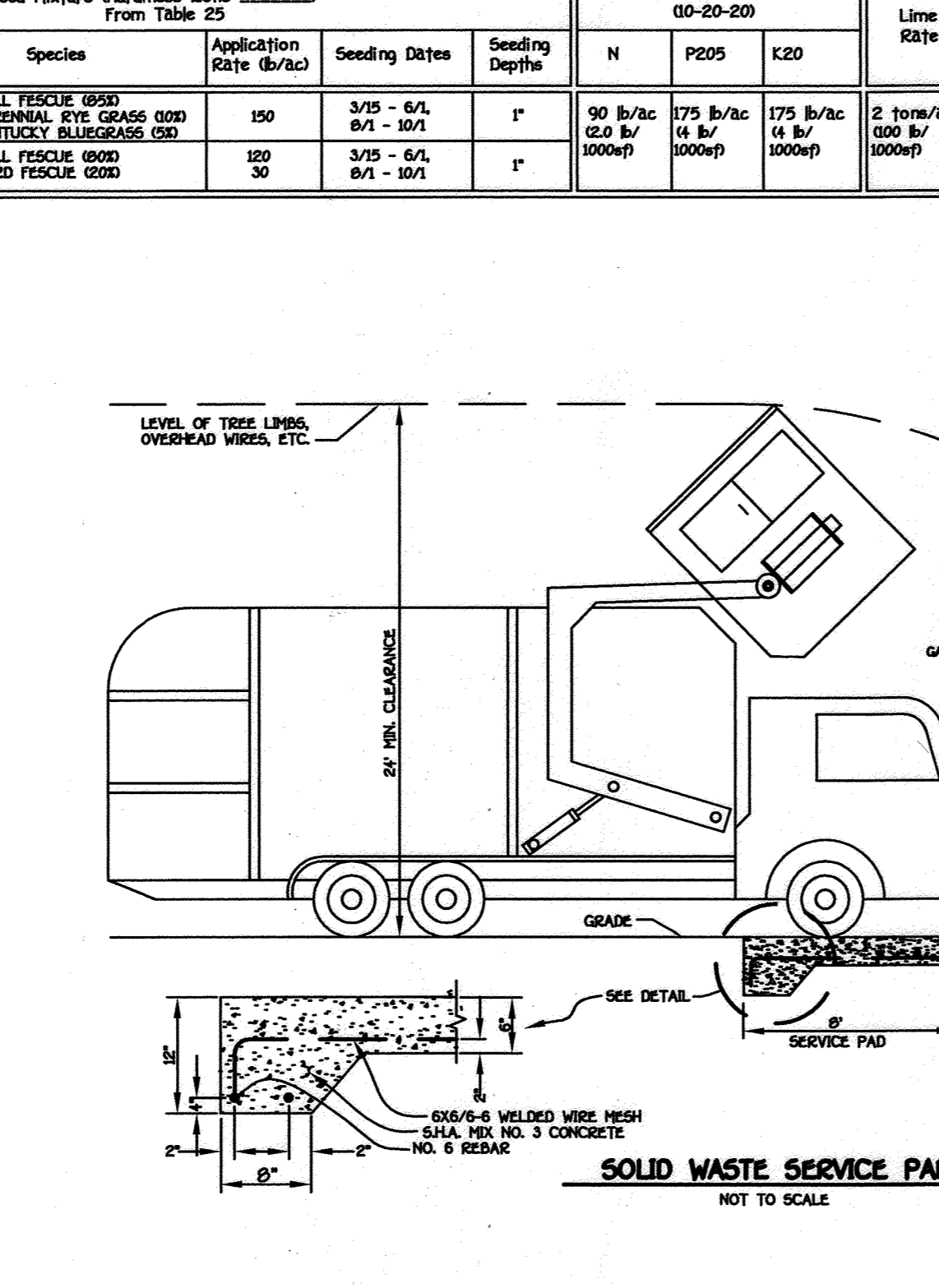
SECTION 3 - PERMANENT SEEDING

Seeding grass and legumes to establish ground cover for a minimum of one year on disturbed areas generally receiving low maintenance.

A. Seed mixtures - Permanent Seeding

Table with 7 columns: No., Species, Application Rate (lb/ac), Seeding Dates, Seeding Depth, Fertilizer Rate (lb/1000sq ft), Lime Rate. Includes rows for Tall Fescue and Kentucky Bluegrass.

LEVEL OF TREE LINES, OVERHEAD WIRE, ETC.

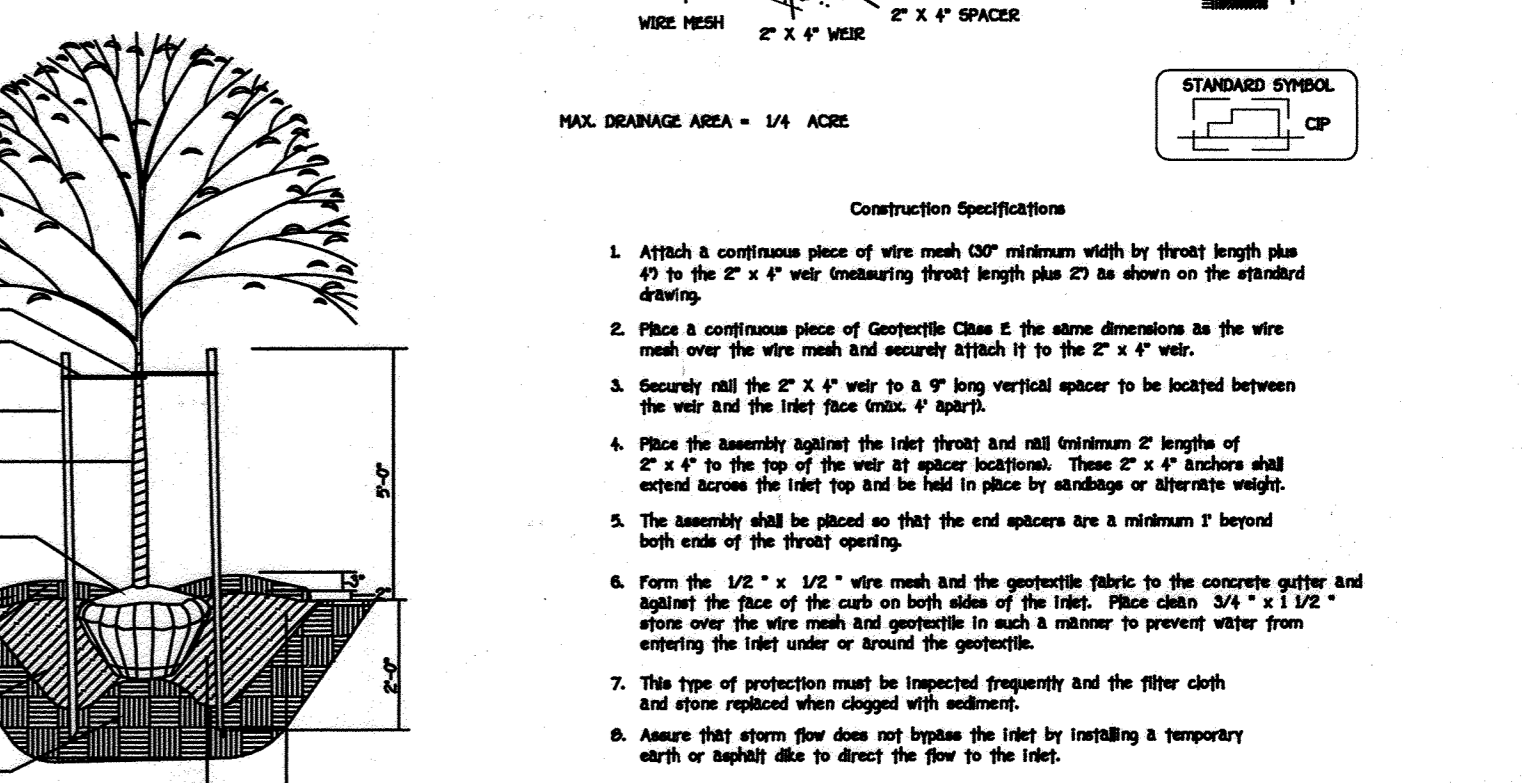
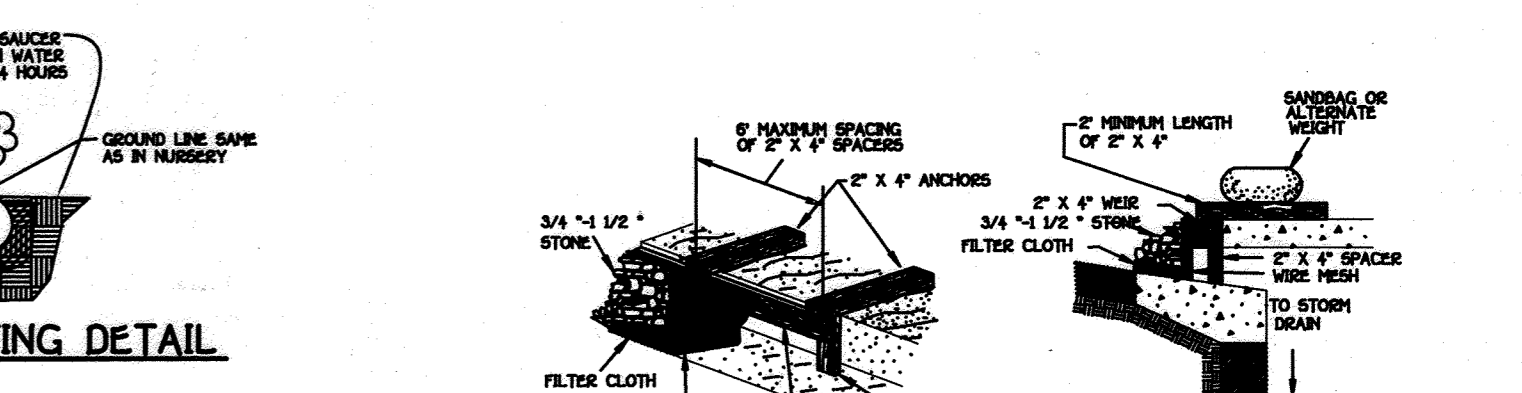


SEDIMENT CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections... 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED BEFORE THE START OF ANY CONSTRUCTION... 3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS...

TEMPORARY SEEDING NOTES

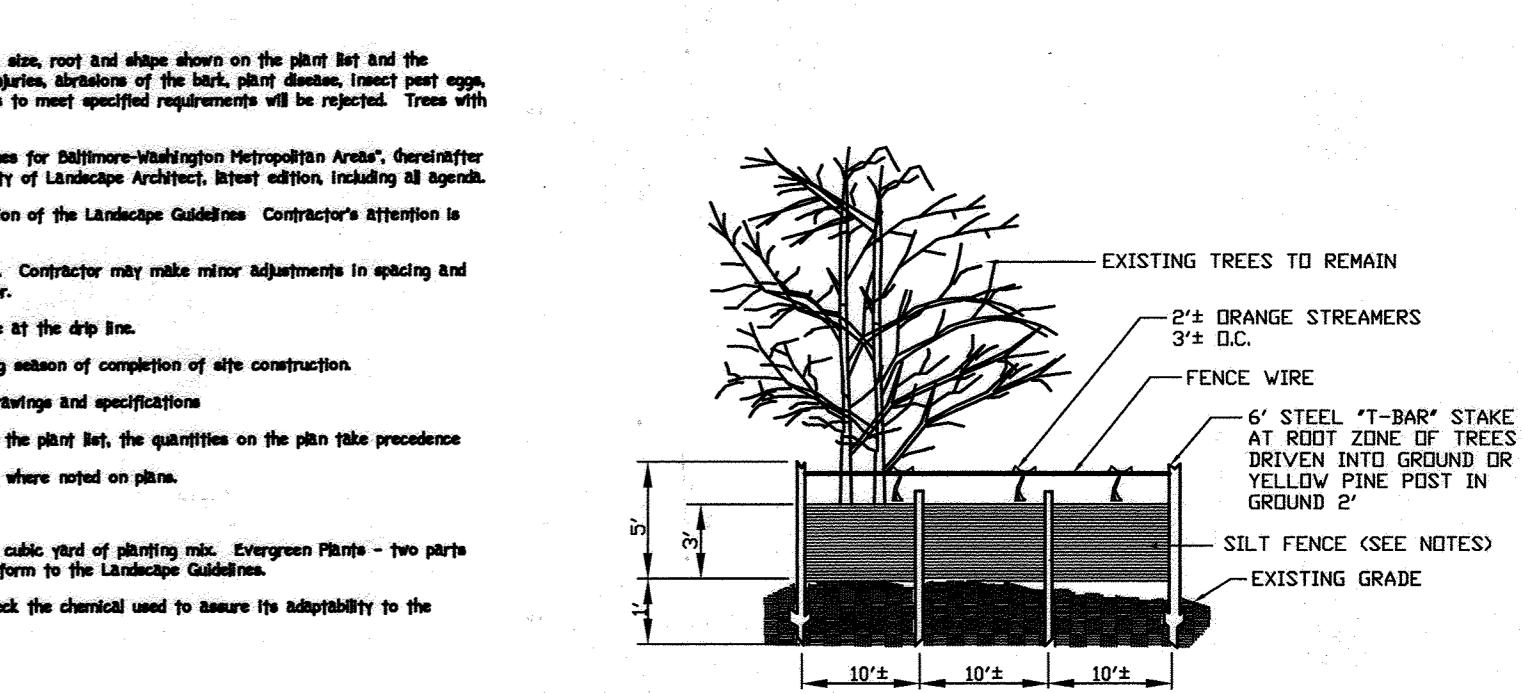
- 1. APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED... 2. SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING... 3. SOIL AMENDMENTS: APPLY 500 LBS PER ACRE 10-10-10 FERTILIZER... 4. SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 31, SEED WITH 100 LBS PER ACRE...



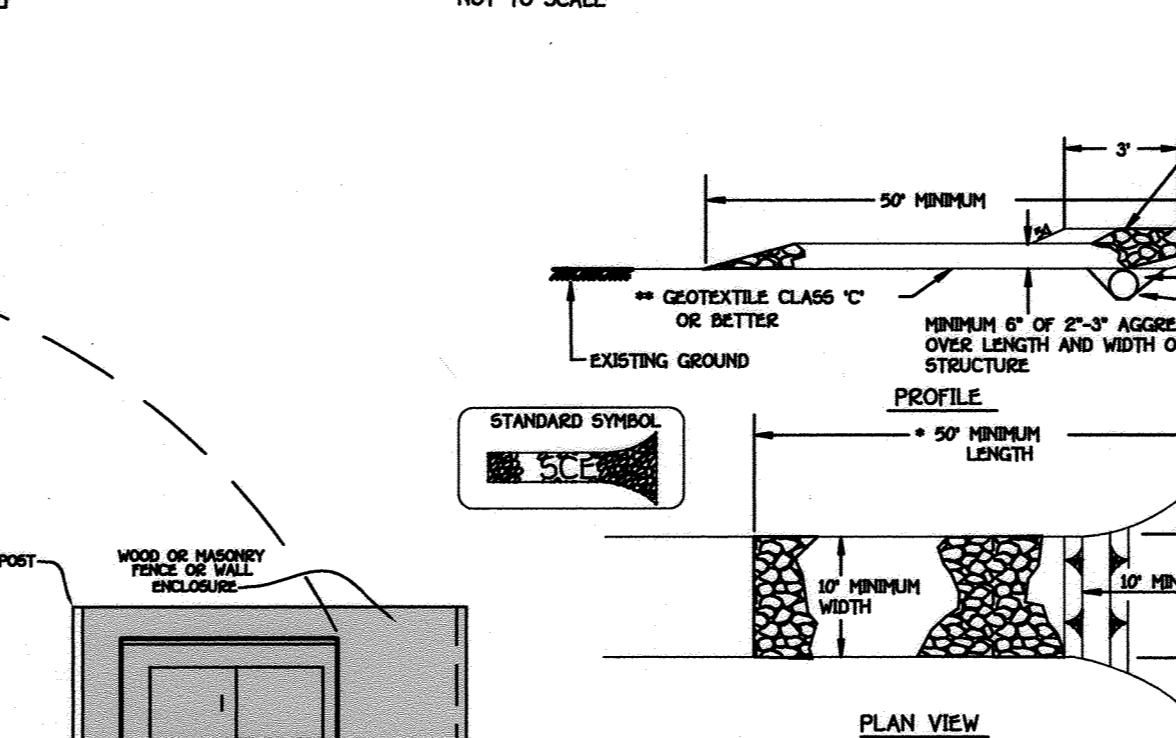
EVERGREEN PLANTING DETAIL PLANTING SPECIFICATIONS

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 native grasses, uniformly branched, have a vigorous root system, and shall conform to the section size, root and stem above the plant and the American Association of Nurserymen (AAN) Standards...

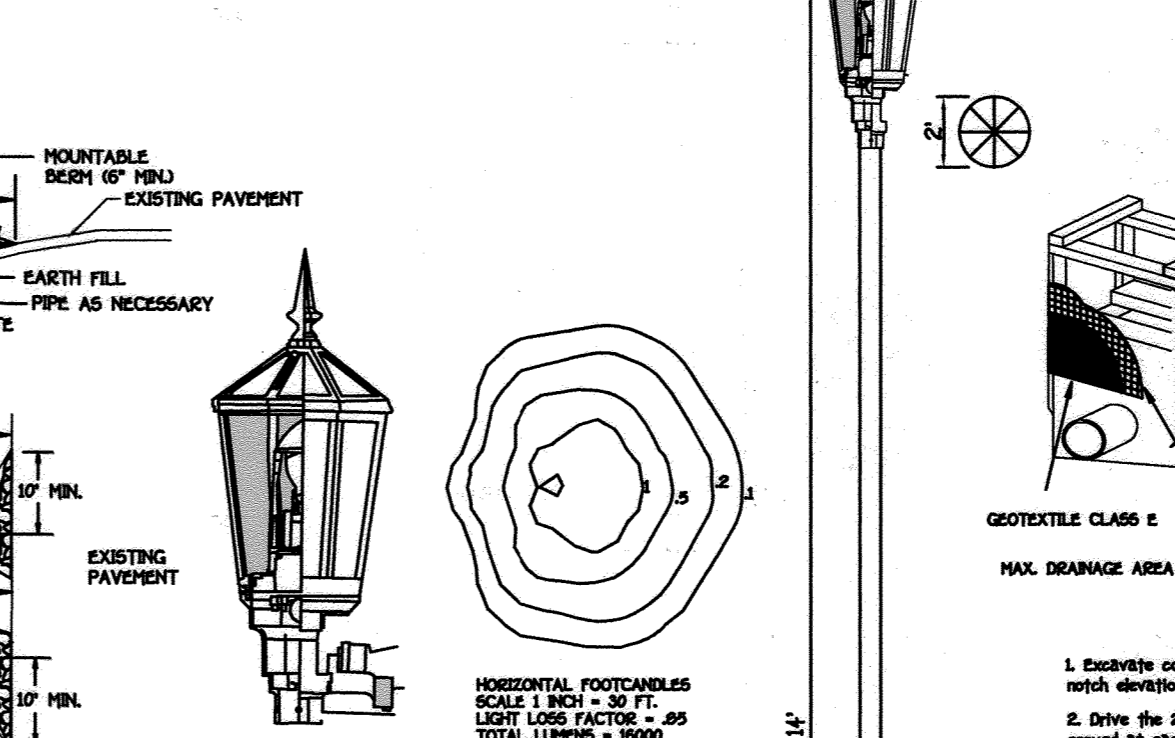
CURB INLET PROTECTION (COQ OR COS INLETS)



SOLID WASTE OPTIONAL CONTAINER ENCLOSURE



STABILIZED CONSTRUCTION ENTRANCE



PERMANENT SEEDING NOTES

- 1. ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS: SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING... 2. SOIL AMENDMENTS: APPLY 500 LBS PER ACRE 10-10-10 FERTILIZER... 3. SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 31, SEED WITH 100 LBS PER ACRE...

Professional Engineer's Stamp for J. Lamke, Designer, and C. Crovo Sr., Checker. Includes date 7-26-03 and project name Add sheets 15-18.

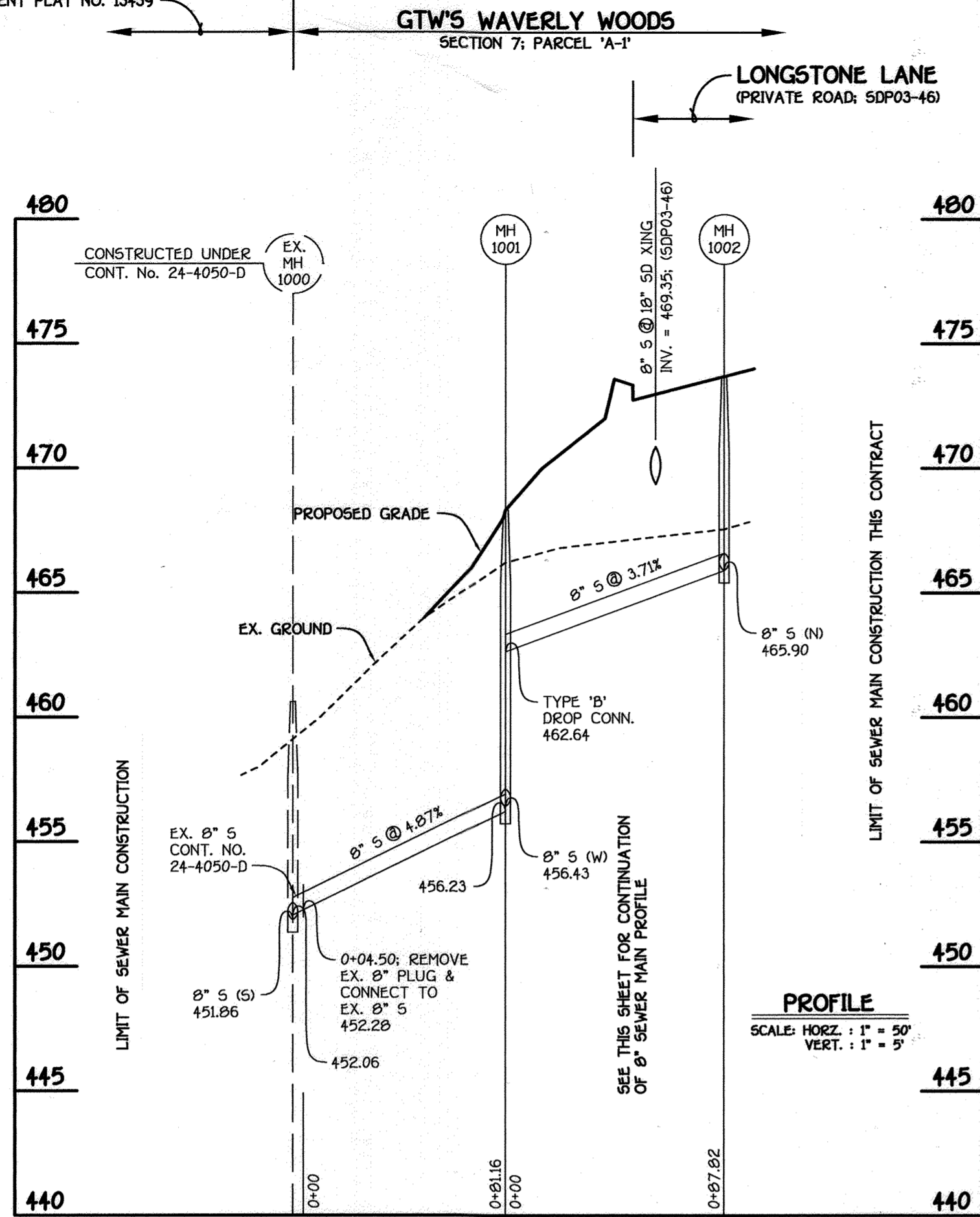
ENGINEER'S CERTIFICATE and DEVELOPER'S CERTIFICATE. Includes signatures and dates for the Engineer (10/18/03) and Developer (10/13/03).

OWNER/DEVELOPER information for Waverly Woods Development Corporation, including address in Ellicott City, Maryland.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Includes signatures and dates for the Chief of Planning and Zoning (10/26/03) and the Director of Planning and Zoning (10/26/03).

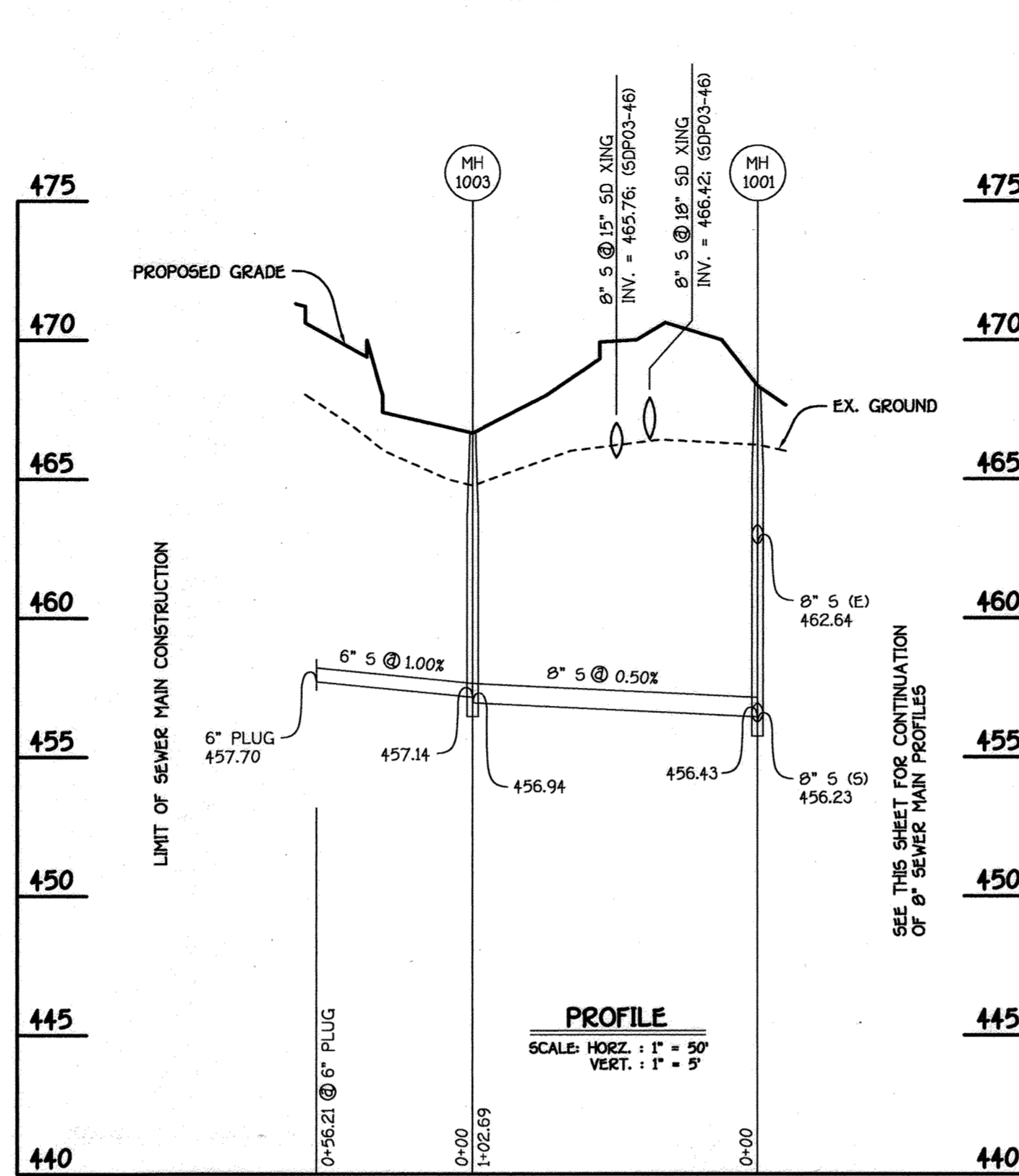
STANDARD DETAILS AND NOTES. SECTION 7 PARCEL 'A-1'. BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8. Includes tax map info and scale.

GTW'S WAVERLY WOODS
SECTION 7, OPEN SPACE LOT 1 EX. PUBLIC SEWER
& UTILITY EASEMENT PLAT NO. 13439



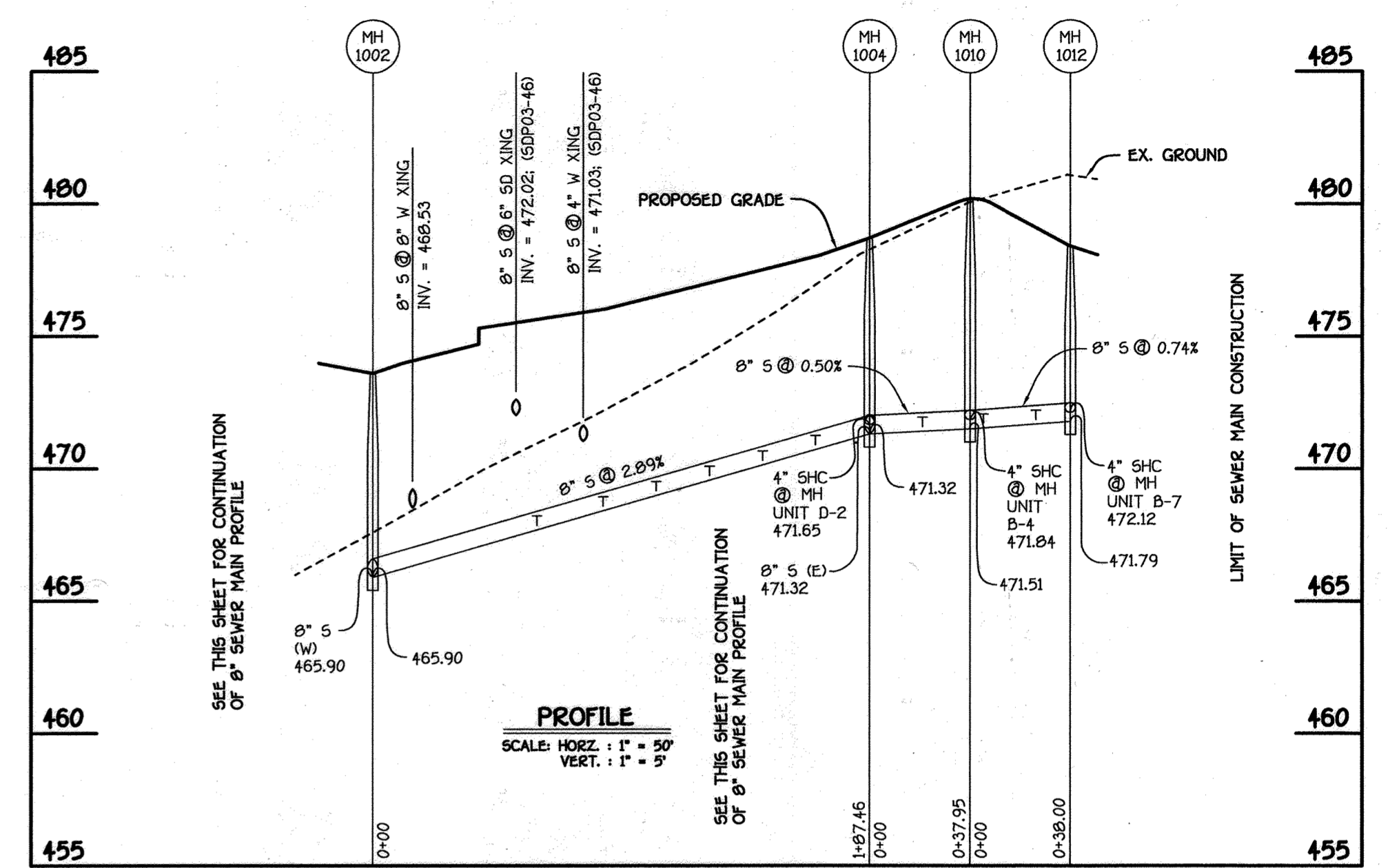
8" SEWER MAIN: OUTFALL

GTW'S WAVERLY WOODS
SECTION 7, PARCEL 'A-1'



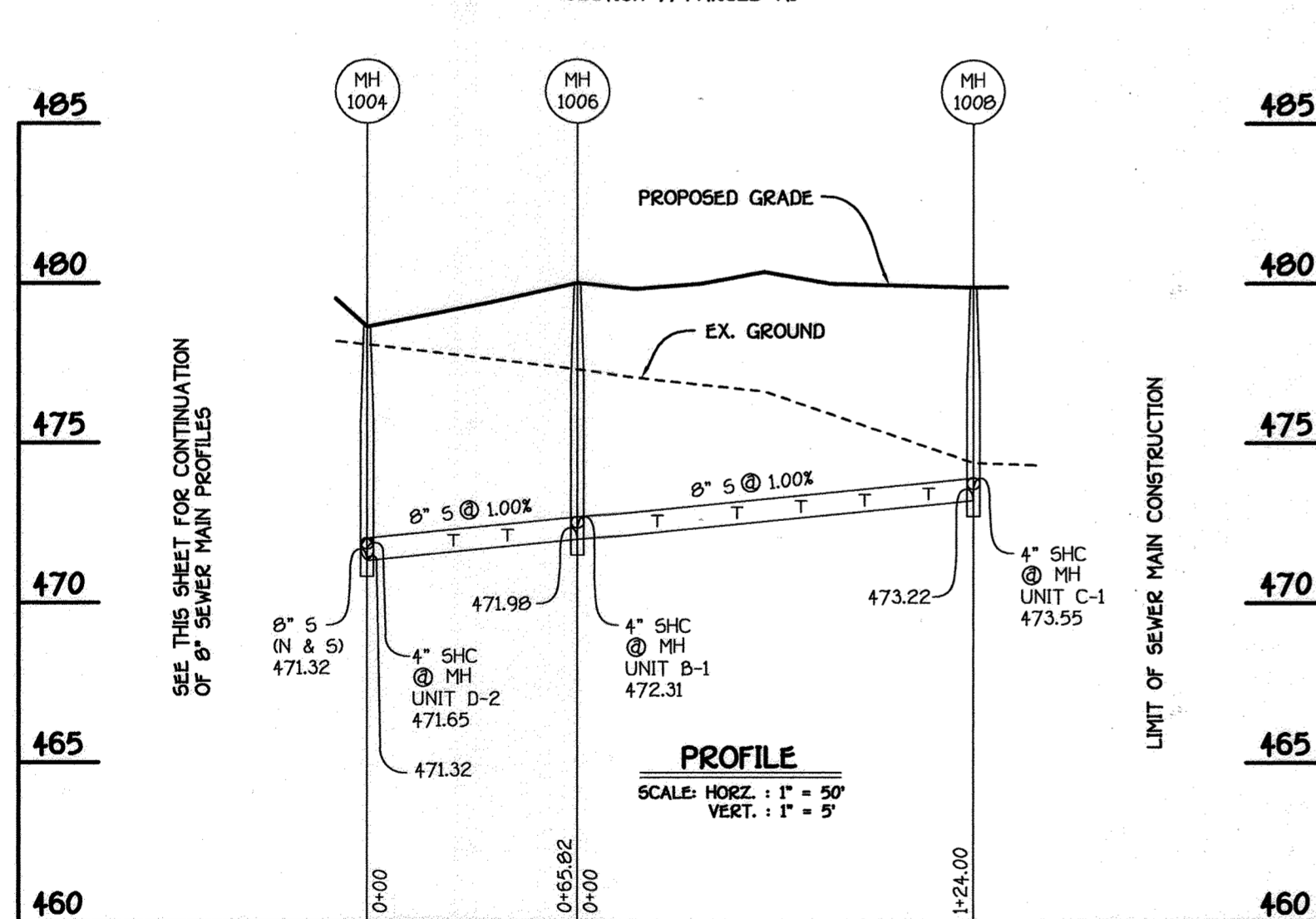
8" SEWER MAIN TO BUILDING 'A'

GTW'S WAVERLY WOODS
SECTION 7, PARCEL 'A-1'



8" SEWER MAIN: BUILDING 'B' & BUILDING 'C'

GTW'S WAVERLY WOODS
SECTION 7, PARCEL 'A'



8" SEWER MAIN: BUILDING 'B' & BUILDING 'C'

M.C.E. CHART	
UNIT	M.C.E.
GTW'S SECTION 7, PARCEL 'A'	
BUILDING 'A'	465.30
BUILDING 'B'	
1	476.51
2	476.09
3	476.12
4	475.76
5	475.82
6	475.77
7	476.32
BUILDING 'C'	
1	477.81
2	477.17
3	476.97
4	476.79
5	476.61
6	476.64
BUILDING 'D'	
1	475.75
2	475.55
3	474.80
4	474.22
5	473.64
6	472.96
7	472.48
8	472.02

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION*
1001	597892.96	1341278.29	466.34
1002	597922.19	1341361.11	473.90
1003	597931.93	1341183.28	466.50
1004	598109.59	1341356.12	478.60
1006	598111.34	1341421.92	480.00
1008	598024.78	1341510.71	480.00
1010	598147.53	1341355.11	480.00
1012	598165.62	1341321.70	478.40

* SET ALL MANHOLE RIMS FLUSH W/ PROPOSED FINISHED GRADE.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
410-461-2995

DRAFT: M. TRIMBLE
DESIGN: M. TRIMBLE
CHECK: P. KRIEBEL

NO.	REVISION	DATE
1	Add Sheets 16-18	7-26-21



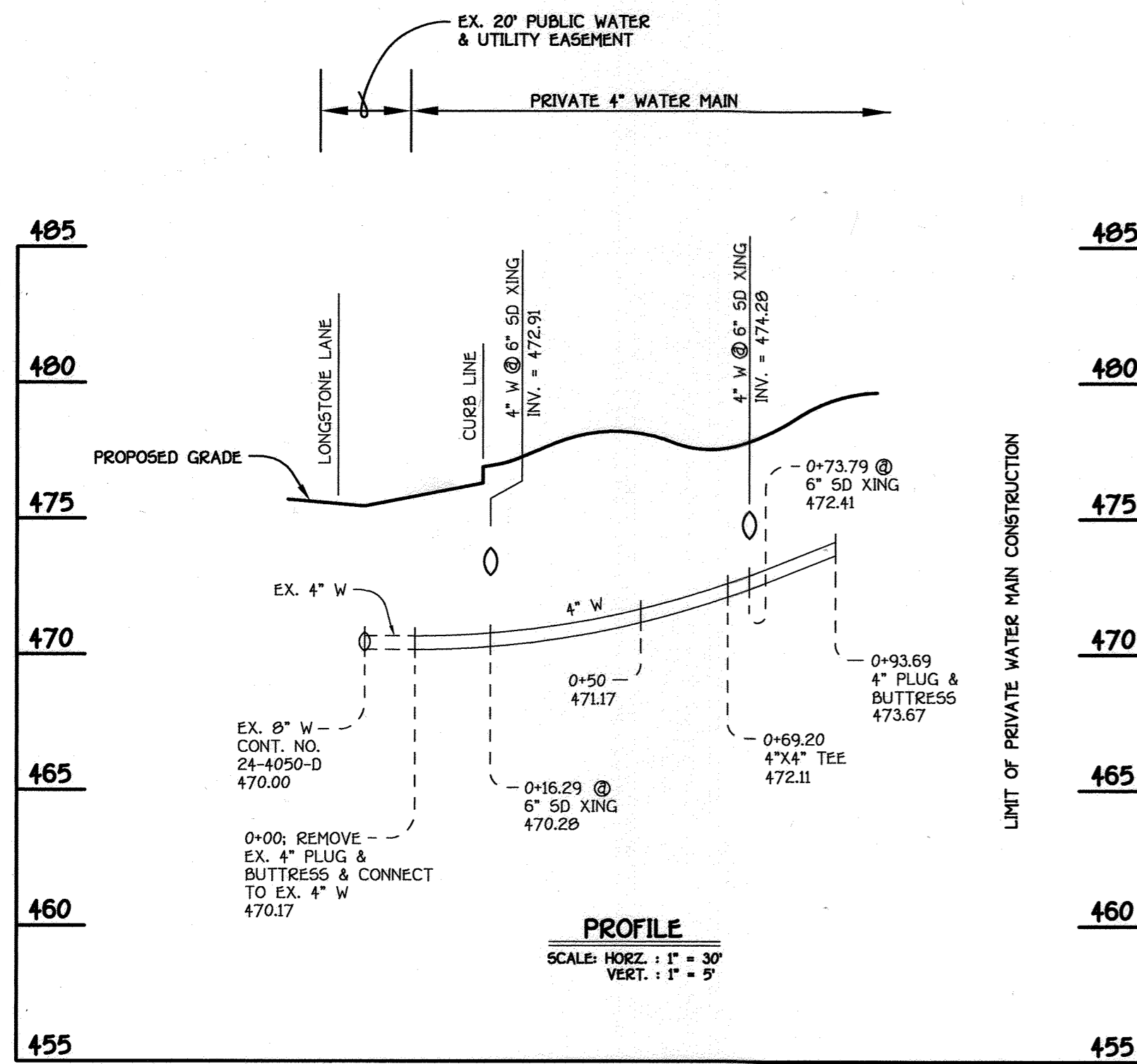
ENGINEER'S CERTIFICATE
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer: [Signature] Date: 10/13/20
DEVELOPER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction of this project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature of Developer: [Signature] Date: 10-13-03

Approved for HOWARD SCD and meets Technical Requirements.
U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for soil and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Howard SCD
OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELLCOTT CITY, MARYLAND 21043
410-480-9105

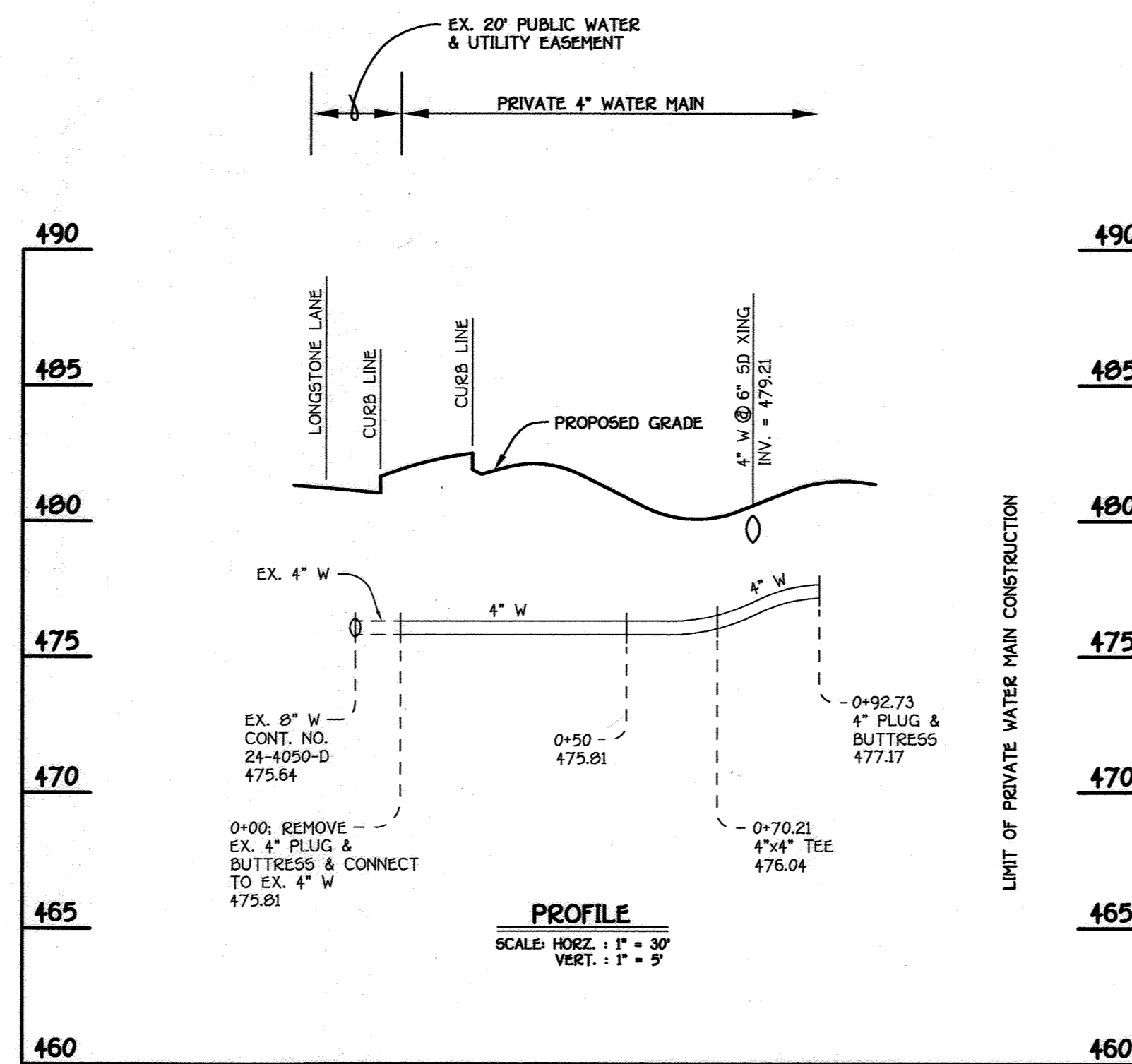
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signatures]
PROJECT: GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'
PLAT: 13439 BLOCK NO. 4 ZONE PEC TAX/ZONE 16 ELEC. DIST. 3rd. CENSUS TR. 6030.00
WATER CODE H 05 SEWER CODE 5992000

PRIVATE SEWER MAIN PROFILES
GTW'S WAVERLY WOODS
SECTION 7
PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8
TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: A5 SHOWN DATE: OCTOBER 10, 2003
SHEET 9 OF 18

SDP-03-046



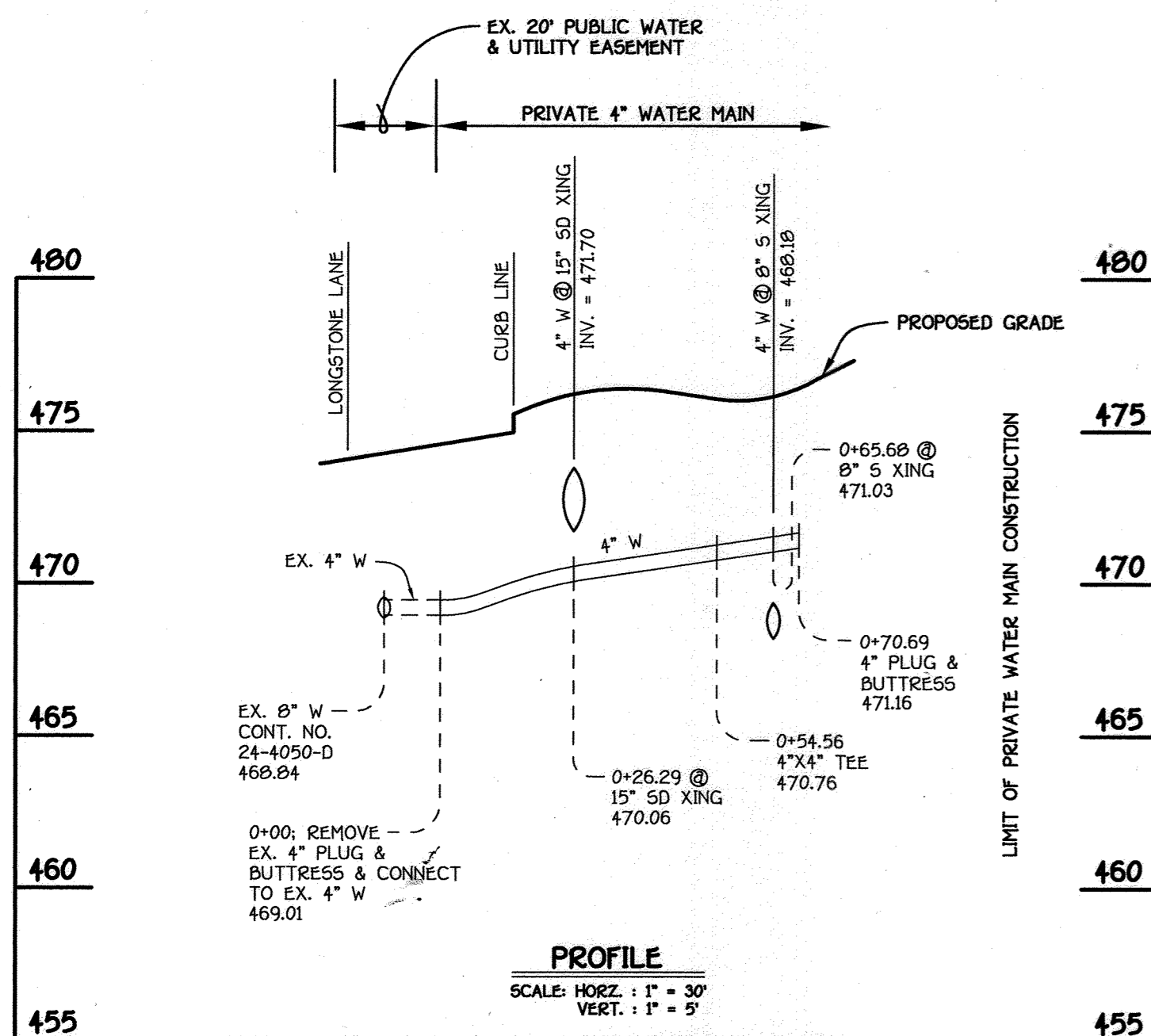
4" WATER MAIN: BUILDING 'B'



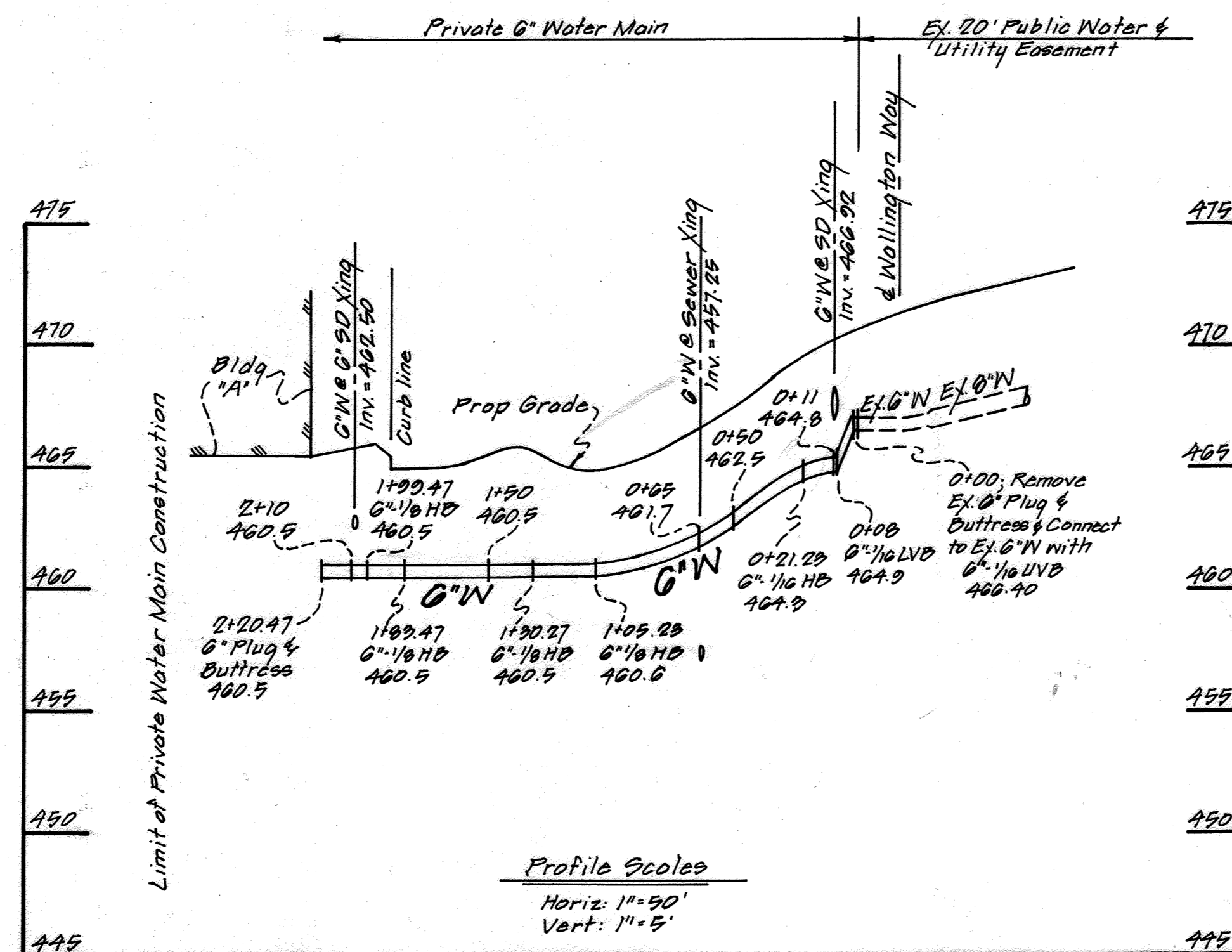
4" WATER MAIN: BUILDING 'C'

SEE SHEET 2 OF 14 FOR PLAN ALIGNMENT OF 4" PRIVATE WATER MAINS.

WATER MAIN TABULATION CHART			
W.M. STATION	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN: BUILDING 'B'			
0+00.00	CONNECT TO EX. 4" W	598256.27	1341317.97
0+69.20	4" X 4" TEE	598190.63	1341296.05
0+93.69	4" PLUG & BUTTRESS	598182.87	1341319.28
4" WATER MAIN: BUILDING 'C'			
0+00.00	CONNECT TO EX. 4" W	598167.53	1341483.13
0+70.21	4" X 4" TEE	598112.20	1341439.92
0+92.73	4" PLUG & BUTTRESS	598098.33	1341457.67
4" WATER MAIN: BUILDING 'D'			
0+00.00	CONNECT TO EX. 4" W	597947.98	1341373.78
0+54.56	4" X 4" TEE	598002.42	1341370.09
0+70.69	4" PLUG & BUTTRESS	598001.33	1341354.00
6" Water: Building 'A'			
0+00.00	Connect to Ex. 6" Water	597994.85	1341242.71
0+01.29	1/8" HD	597944.80	1341244.70
1+08.29	1/8" HD	597941.77	1341142.70
1+30.27	1/8" HD	597959.47	1341139.09
1+89.47	1/8" HD	598012.69	1341121.38
1+99.47	1/8" HD	598024.92	1341132.09
2+20.47	6" Plug & Buttress	598025.08	1341139.08



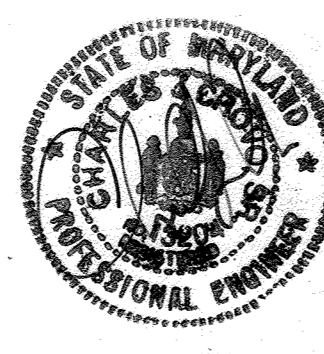
4" WATER MAIN: BUILDING 'D'



6" WATER MAIN: BUILDING 'A'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21041
(410) 468-2895

DRAFT: M. TRIMBLE			
DESIGN: M. TRIMBLE			
CHECK: P. KRIEBEL			
NO.	REVISION	DATE	
2	Add Sheets 16-18	7-26-03	
1	Add 6" Water Main to serve Building 'A'	8-17-04	



ENGINEER'S CERTIFICATE
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.
Signature of Engineer: [Signature] Date: 10/13/03

DEVELOPER'S CERTIFICATE
I/we certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.
Signature of Developer: [Signature] Date: 10-13-03

Reviewed for HOWARD SCD and meets Technical Requirements.
U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for sediment and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature: [Signature] Date: 10/13/03

HOWARD SCD
Date: [Date]

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELLCOTT CITY, MARYLAND 21043
(410) 480-9105

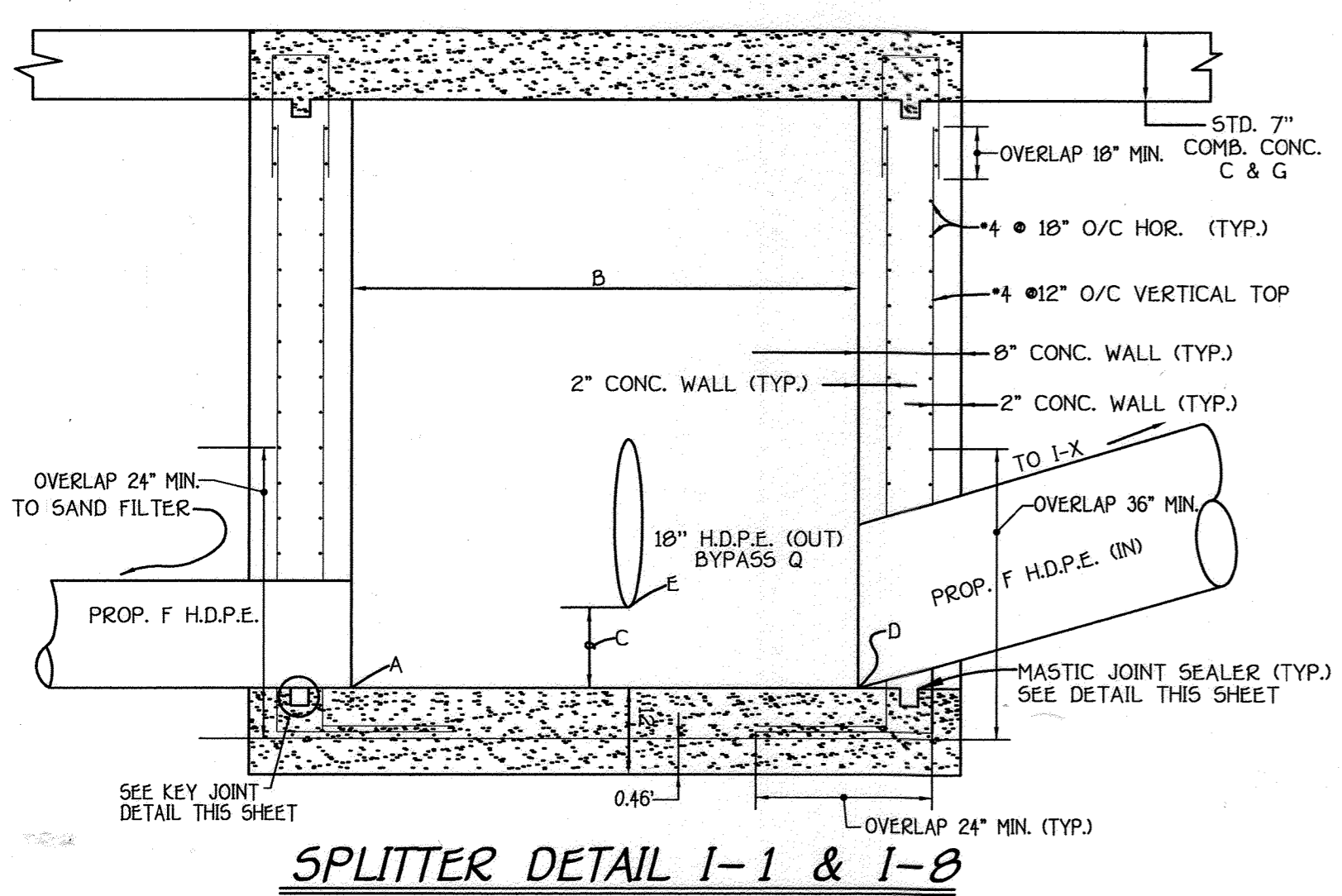
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Signature: [Signature] Date: 11/5/03
Signature: [Signature] Date: 10/28/03
Signature: [Signature] Date: 12/10/03

PROJECT: GTW'S WAVERLY WOODS
SECTION: 7
LOTS NO.: PARCEL 'A-1'

PLAT 13439	BLOCK NO. 4	ZONE PEC	TAX/ZONE 16	ELEC. DIST. 3rd	CENSUS TR. 6030.00
WATER CODE H 05			SEWER CODE 5992000		

PRIVATE WATER MAIN PROFILES
GTW'S WAVERLY WOODS
SECTION 7
PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8
TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 10, 2003
SHEET 10 OF 18

SDP-03-046



SPLITTER DETAIL I-1 & I-B

NOT TO SCALE

X	A	B	C	D	E	F
I-1	450.35	10'	0.39'	450.35	450.74	15'
I-B	459.07	10'	0.71'	459.15	459.86	10'

$Q = 3.84$
 $H = Q / (C \times L) \times 2/3$
 $H = 3.84 / (3.1 \times 10) \times 2/3 = 0.39'$

$Q = 3.84$
 $H = Q / (C \times L) \times 2/3$
 $H = 3.84 / (3.1 \times 10) \times 2/3 = 0.71'$

SOIL BORING PROFILES

Page 1 of 1

SOIL DESCRIPTION	DEPTH (FEET)	DIAMETER (INCHES)	REMARKS
...

Page 2 of 1

SOIL DESCRIPTION	DEPTH (FEET)	DIAMETER (INCHES)	REMARKS
...

Page 3 of 1

SOIL DESCRIPTION	DEPTH (FEET)	DIAMETER (INCHES)	REMARKS
...

Page 4 of 1

SOIL DESCRIPTION	DEPTH (FEET)	DIAMETER (INCHES)	REMARKS
...

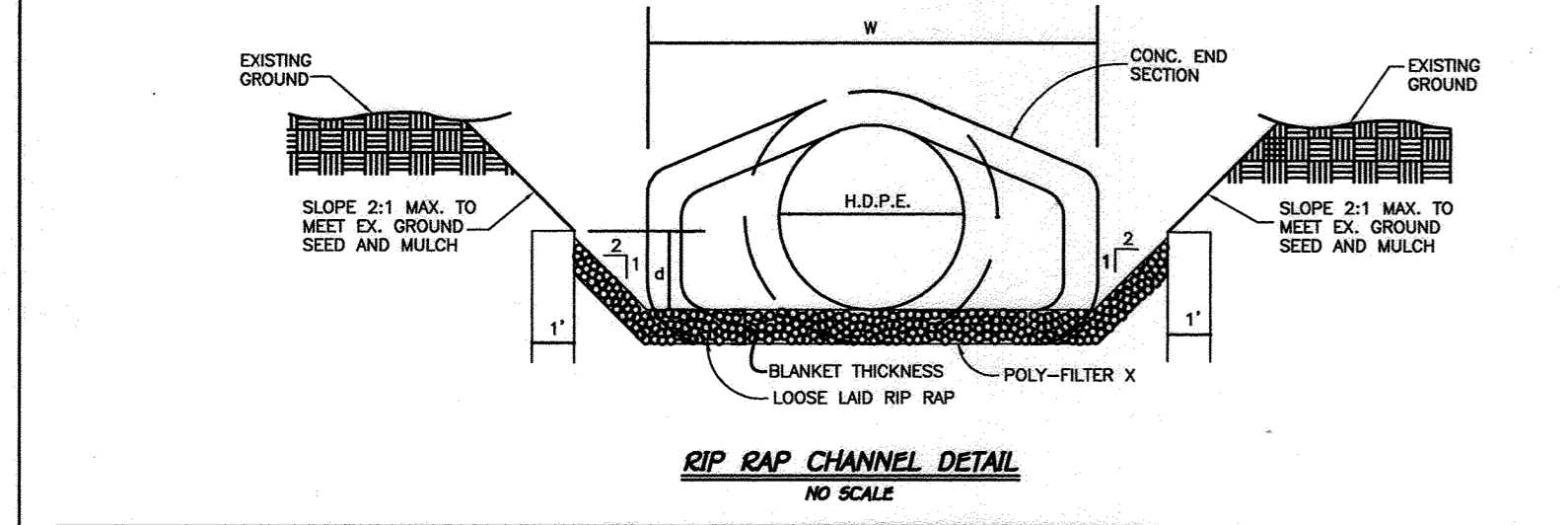
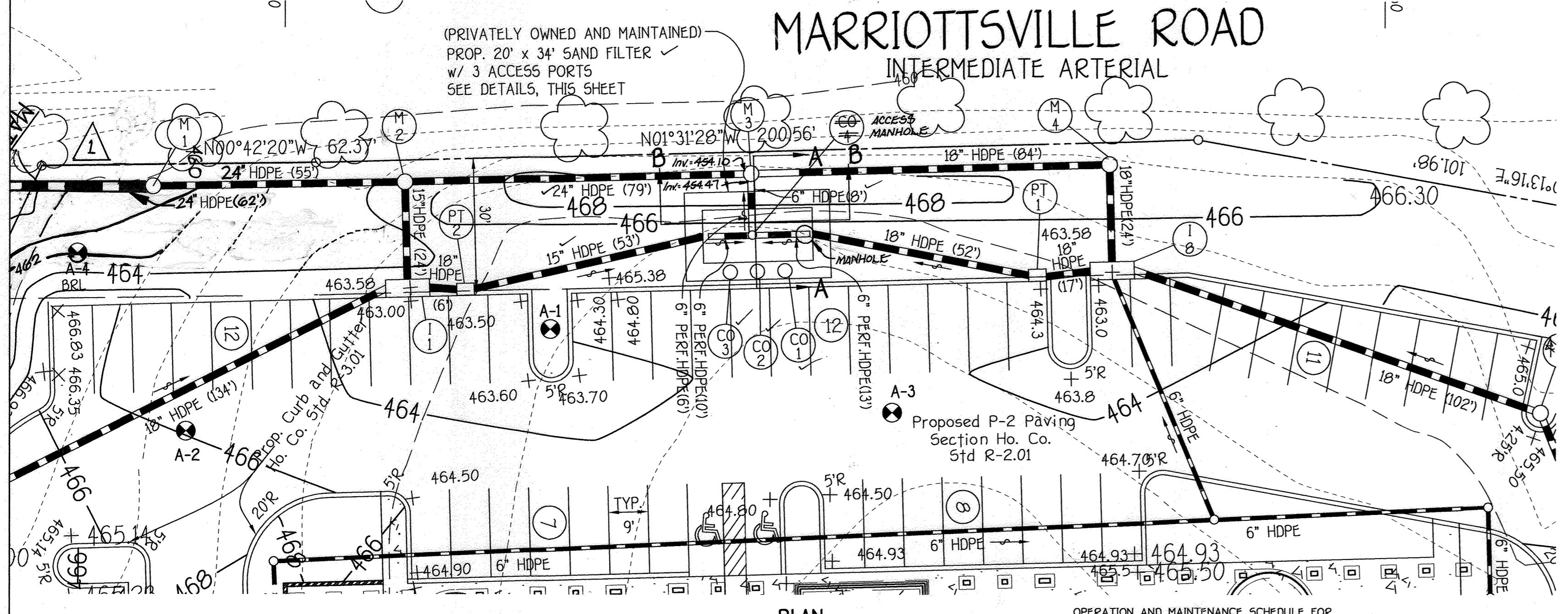
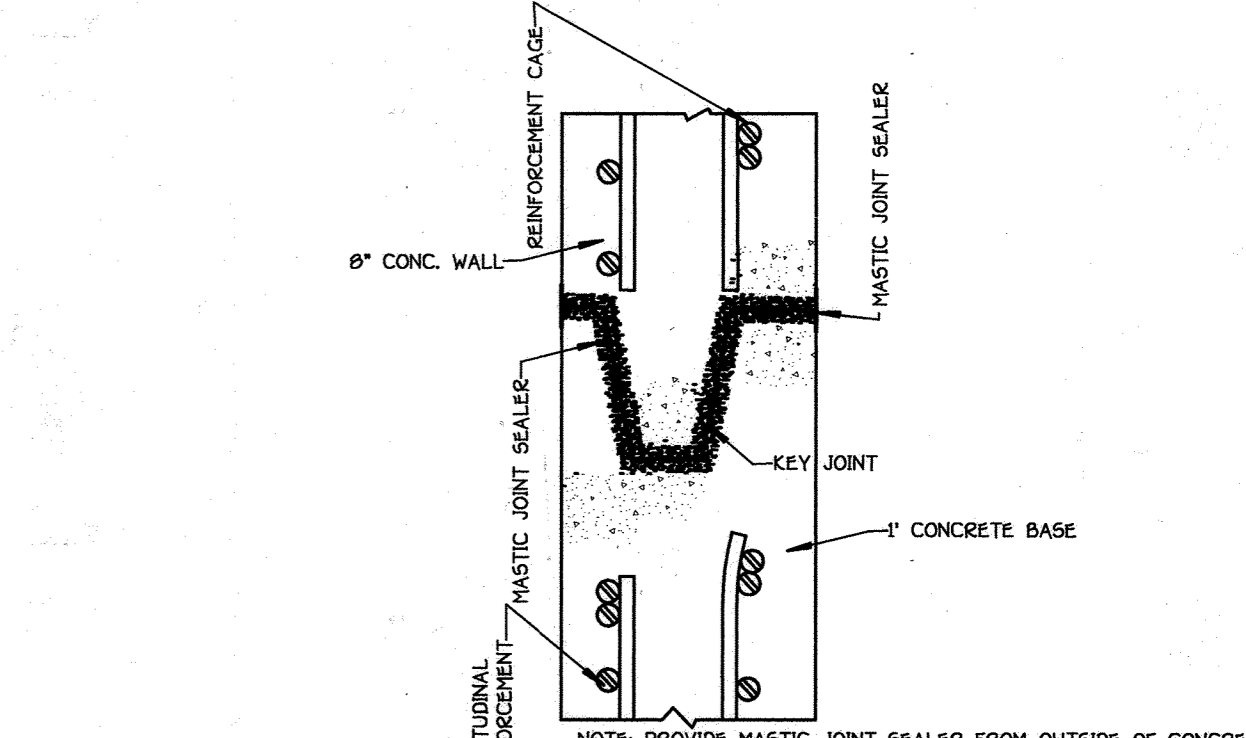
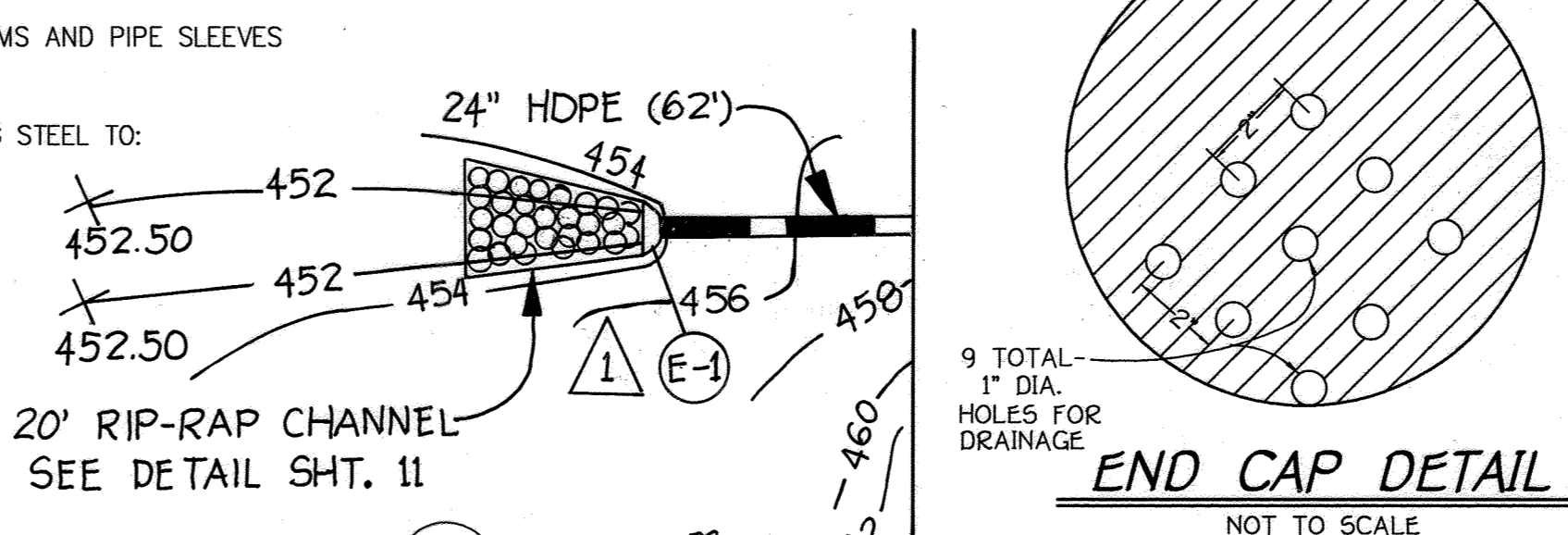
Page 5 of 1

SOIL DESCRIPTION	DEPTH (FEET)	DIAMETER (INCHES)	REMARKS
...

- THE 20' x 34' CONC. BOX SHOWN ON THIS DRAWING HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:
H-20 TRAFFIC LOADING (16KIP MAXIMUM WHEEL LOAD)
HYDROSTATIC PRESSURES ASSOCIATED WITH THE TANK BEING FULL AND/OR EMPTY EARTH SOIL PRESSURES
- THE 20' x 34' CONC. BOX HAS BEEN DESIGNED TO REST ON INORGANIC UNDISTURBED SOIL HAVING A PRESUMPTIVE BEARING VALUE OF 3,000 PSF.
- CONCRETE SHALL BE NORMAL WEIGHT AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 3/4", MAXIMUM WATER TO CEMENT RATIO OF .45, MAXIMUM SLUMP OF 4 INCHES, AND CONTAIN 6% ENTRAINED AIR.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- PROVIDE 2-#4 BARS OVER AND EACH SIDE OF ALL OPENINGS IN WALLS. BARS TO BE 1 1/2" CLEAR OF AND EXTEND 12 INCHES PAST OPENING.
- SIZES AND LOCATIONS OF ALL REQUIRED EMBEDDED ITEMS AND PIPE SLEEVES SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- PROVIDE THE FOLLOWING CLEARANCES FOR REINFORCING STEEL TO:
CAST AGAINST SOIL 3"
EXPOSED TO WEATHER (FORMED) 1 1/2"
NOT EXPOSED TO WEATHER 3/4"

SOIL BORING PROFILES

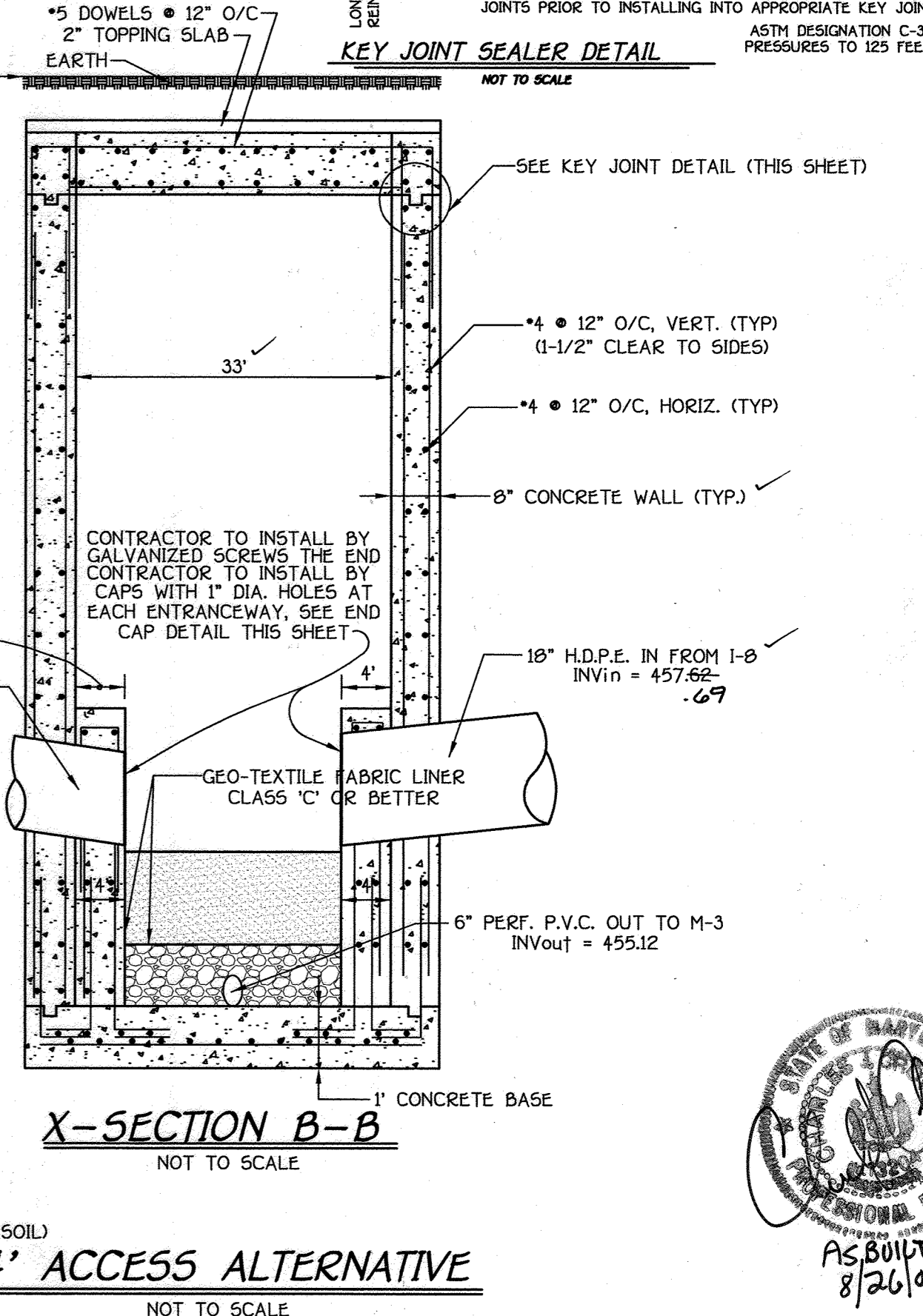
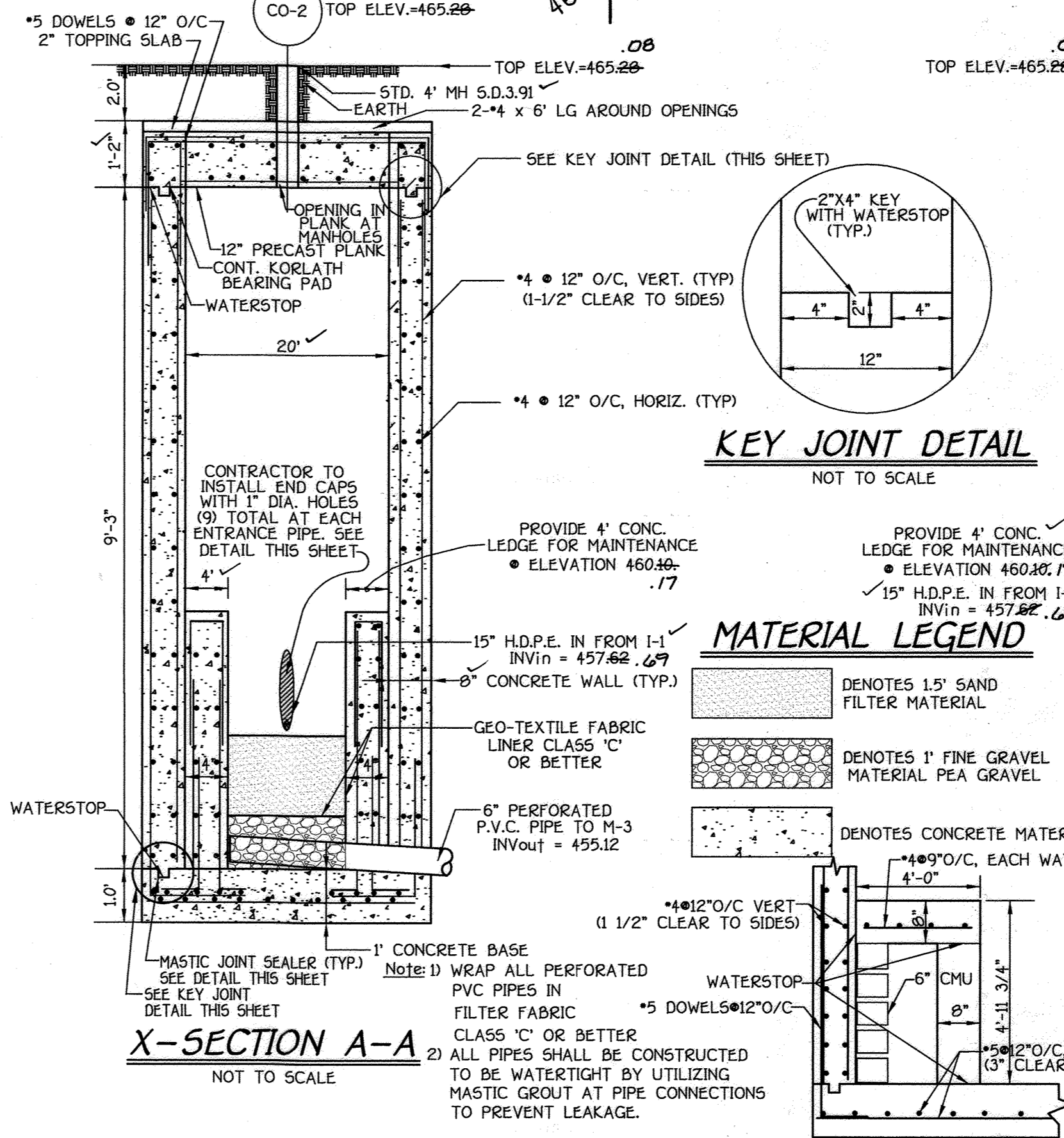
NOT TO SCALE



RIP-RAP CHANNEL DESIGN DATA

STRUCTURE	AREA	WETTED PERIMETER	R	R ^{2/3}	S	S ^{1/2}	W	d	N	Q (C.F.S.)	Q (C.F.S.)	BLANKET THICKNESS	Q ₁₀ (CFS)	D ₅₀
E-1	10.20	11.42	0.8932	0.9271	0.0050	0.0707	6.00	1.21	0.040	2.44	24.85	9.5'	15'	24.85

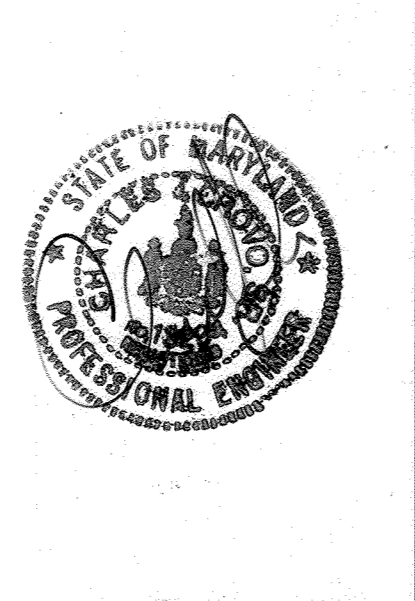
- OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED UNDERGROUND STORMWATER FILTRATION SYSTEMS (F-2 AND F-3)**
- THE SEDIMENT CHAMBER OUTLET DEVICES SHALL BE CLEANED AND / OR REPAIRED WHEN DRAW DOWN TIMES WITHIN THE CHAMBER EXCEED 36 HOURS.
 - DEBRIS AND LITTER SHALL BE REMOVED AS NECESSARY TO INSURE PROPER OPERATION OF THE SYSTEM.
 - SEDIMENT SHALL BE CLEANED OUT OF THE SEDIMENTATION CHAMBER WHEN IT ACCUMULATES TO A DEPTH OF 6 INCHES. VEGETATION WITHIN THE SEDIMENT CHAMBER SHALL BE LIMITED TO A HEIGHT OF 10 INCHES.
 - WHEN WATER POUNDS ON THE SURFACE OF THE FILTER BED FOR MORE THEN 72 HOURS, THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REPLACED WITH FRESH MATERIAL. THE OWNER MUST FOLLOW PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID.
 - A LOGBOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
 - THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO THE HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
 - ONCE THE PERFORMANCE CHARACTERISTICS OF FILTRATION SYSTEM HAVE BEEN VERIFIED THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.
 - AS PRIVATE WATER MAIN PROFILES AND INCREASE EX. 10 TO 11 & 50 ON. TOTAL # OF SHTS. TO 15.



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 410 481-2855

DRAFT: J. LAMKE
 DESIGN: R. ISAACS
 CHECK: C. GROVO SR.

NO.	REVISION	DATE
2	ADD SHEETS 15-18	7/26/03
1	REVISE STORM DRAIN OUTFALL TO TIE TO EX. GRD.	1/20/06



ENGINEER'S CERTIFICATE
 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.

Signature of Engineer: *R. Isaacs* Date: 10/13/03

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

Signature of Developer: *[Signature]* Date: 10-13-03

APPROVED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

U.S.D.A.-Natural Resources Conservation Service
 This development plan is approved for sediment and erosion control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: *[Date]*

OWNER / DEVELOPER
 WAVERLY WOODS DEVELOPMENT CORPORATION
 c/o LAND DESIGN & DEVELOPMENT
 8000 MAIN STREET
 ELICOTT CITY, MARYLAND 21043
 (410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *[Signature]* Date: 10/16/03
 Chief, Development Engineering Division: *[Signature]* Date: 10/16/03
 Director - Department of Planning and Zoning: *[Signature]* Date: 10/16/03

PROJECT	SECTION	LOTS NO.
GTW'S WAVERLY WOODS	7	PARCEL 'A-1'

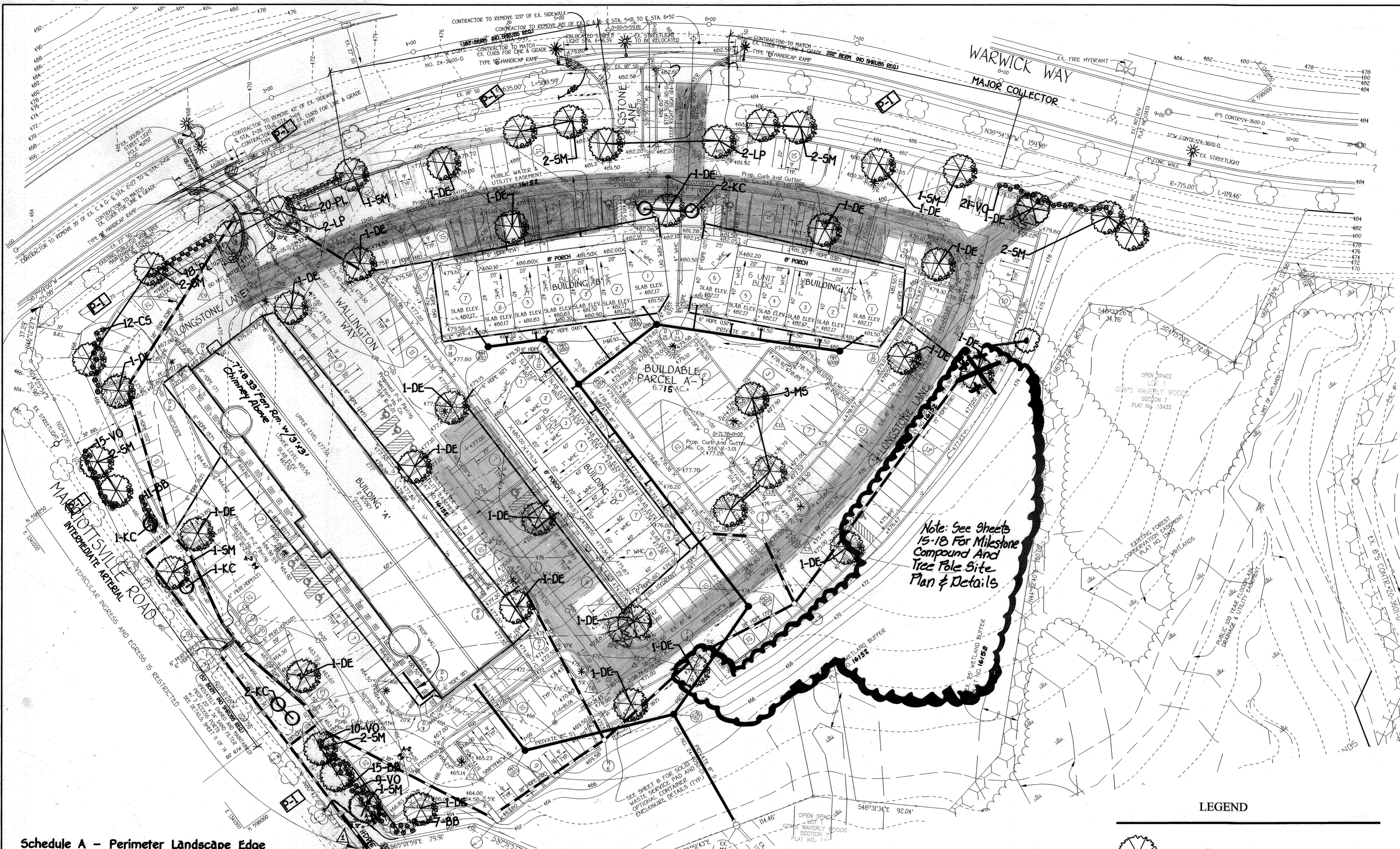
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
13439	4	PEC	16	3rd.	6030.00

WATER CODE: H 05 SEWER CODE: 5992000

SWM - SAND FILTER DETAIL AND SOIL BORING PROFILES

GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'
 BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8
 TAX MAP NO: 16 P/O PARCEL: 424
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: OCTOBER 10, 2003
 SHEET 11 OF 18

AS-BUILT SDR-03-046



Plant List

Quan.	Key	Botanical Name	Common Name	Size	Remarks
TREES					
23	DE	Ulmus parvifolia 'Dynasty'	Dynasty Chinese Elm	2 1/2-3"	B&B or cont.
6	KC	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	1 1/2-2"	B&B or cont.
4	LP	Platanus acerifolia 'Bloodgood'	Bloodgood London Planetree	2 1/2-3"	B&B or cont.
3	MS	Fraxinus pennsylvanica 'Marshall's Seedless'	Marshall's Seedless Ash	2 1/2-3"	B&B or cont.
16	SM	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2 1/2-3"	B&B or cont.
SHRUBS					
33	BB	Fuonyms alatus 'Compacta'	Dwarf Winged euonymus	24-30"	B&B or cont.
12	CS	Comus sericea 'Bailey'	Redtwig Dogwood	24-30"	B&B or cont.
38	PL	Prunus laurocerasus 'Schlipkaensis'	Cherry Laurel	24-30"	B&B or cont.
55	VO	Viburnum opulus 'Compacta'	Compact European Cranberrybush	24-30"	B&B or cont.

Contractor Notes

- Contractor shall be responsible for making himself familiar with all existing on-site conditions prior to submission of bid. The contractor is responsible for the location of all underground utilities, pipes, and structures. Contractor shall take sole responsibility for any cost incurred due to damage of said utilities. Call Miss Utility, 48 hours, prior to digging. (1-800-257-7777)
- Size and standards of plant materials shall conform to latest edition of "USA Standards For Nursery Stock", by the American Association of Nurserymen, Inc. (A.A.N.)
- All planting procedures and specifications shall conform to "Landscape Guidelines for Baltimore-Washington Metropolitan Area" latest edition.
- Contractor shall guarantee all plant material for one (1) year from the date of acceptance.
- Contractor shall confirm quantity of plant materials by plan count.
- Plant pit backfill shall be a uniform mixture of one (1) part topsoil, two (2) parts existing soil and one (1) part Leafgrow[®] or approved alternative organic compost.
- All mulch to be shredded hardwood mulch.
- All Plants shall be thoroughly watered by the contractor immediately follow installation.
- Contractor to adjust plant locations in field as necessary.
- All Plants shall be placed as not to obstruct drainage.
- No Plant substitutes without prior approval.
- Where field conditions exist which would adversely affect plant performance, or interfere with proper planting procedures, the contractor shall notify the Engineer prior to installation of plant material.
- All areas not otherwise indicated are to be seeded or sodded as per plan project specifications and in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control.

Schedule A - Perimeter Landscape Edge

Category	Parking to Roadways
Perimeter Name	P-1
Landscape Type	E
Linear Feet of Roadway Frontage/Perimeter	1084'
Credit for Existing Vegetation (Yes, No, Linear Feet)	No
Credit for Wall, Fence, or Berm (Yes, No, Linear Feet)	Yes, 538' No shrubs
Number of Plants Required	
Shade Trees	27
Evergreen Trees	0
Shrubs	137
Number of Plants Provided	
Shade Trees	25
Evergreen Trees	0
Shrubs	138
Other Trees (2:1 Sub.)	4 (2)

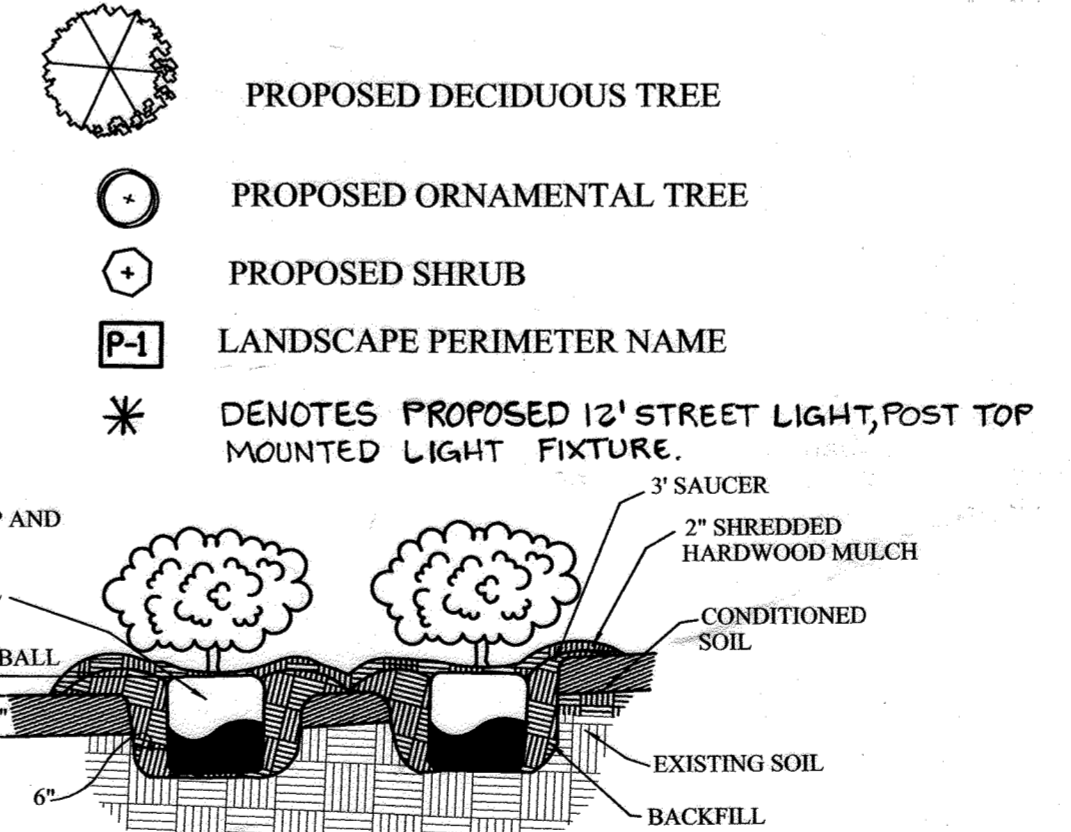
Number of Parking Spaces	286
Number of Trees Required	14
Number of Trees Provided	
Shade Trees	14
Other Trees (2:1 Sub.)	2 (1)

NOTE:
This Plan has been prepared in accordance with the provision of section 16.124 of the Howard County Code and Landscape Manual, Financial Surety for the required landscaping will be posted 25 part of the D.P.W. Developer's Agreement in the amount of \$16,410.00 For 41 Shade Trees, 0 Evergreen Trees And 137 Shrubs.

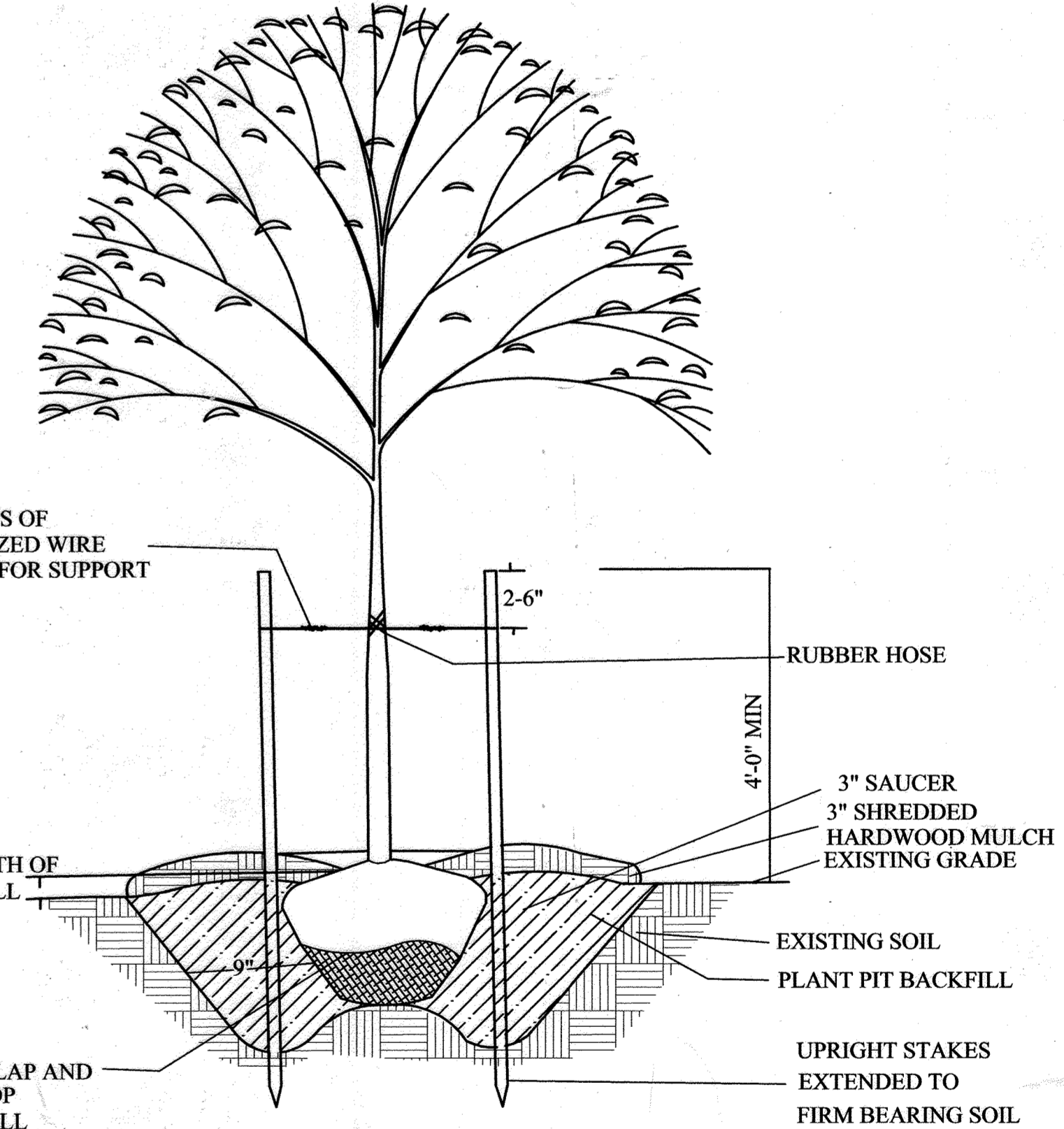
General Notes

- This Landscape Plan has been developed in accordance with the Howard County Landscape Manual (Amended 1998).
- All stormwater management facilities are located underground.
- At the time of installation, all shrubs and other plantings herewith listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation or required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.

LEGEND



1 Shrub Planting Detail
Scale: 1/2" = 1'



2 Tree Planting Detail
Scale: 1/2" = 1'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21114
410 460 2000

NO.	REVISION	DATE
3	Add Sheets 15-1B	7-26-02
2	Add Chimney & Fan Rm. to Bldg. 'A'	8-9-02
1	Revise Storm Drain Outfall To The Top Ex. Grd.	1/20/02

5-9-2003
Date

TIMOTHY I. PRIGG
Landscape Architect No. 1000

ENGINEER'S CERTIFICATE
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.

Signature of Engineer: *[Signature]* Date: 5/20/03

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

Signature of Developer: *[Signature]* Date: 10-13-03

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A. - Natural Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD Date: _____

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
9000 HAIN STREET
ELLCOTT CITY, MARYLAND 21043
(410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] Date: 10/10/03
[Signature] Date: 10/10/03

Chief, Division of Land Development
Chief, Development Engineering Division
Director - Department of Planning and Zoning

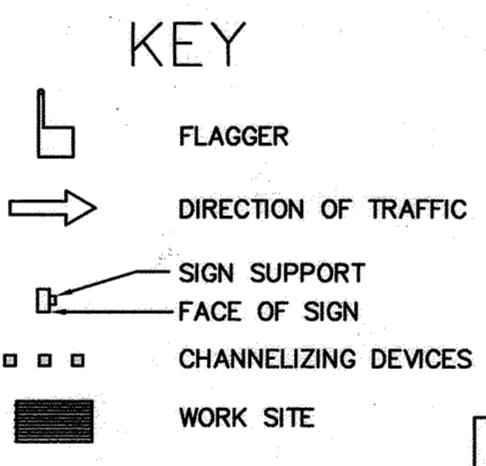
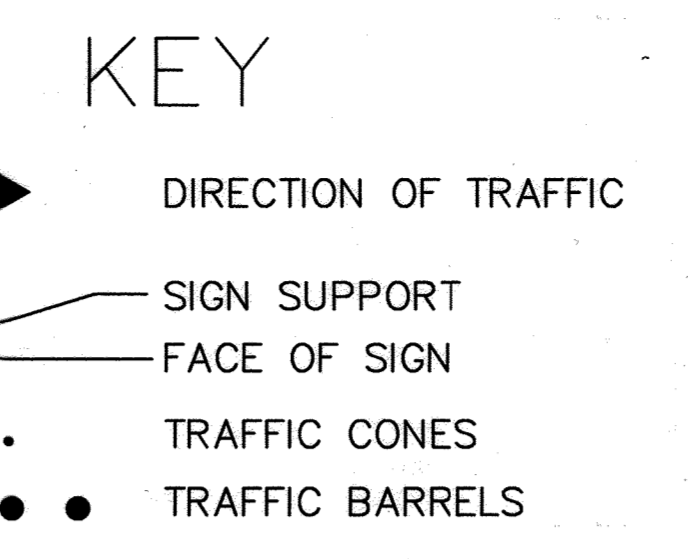
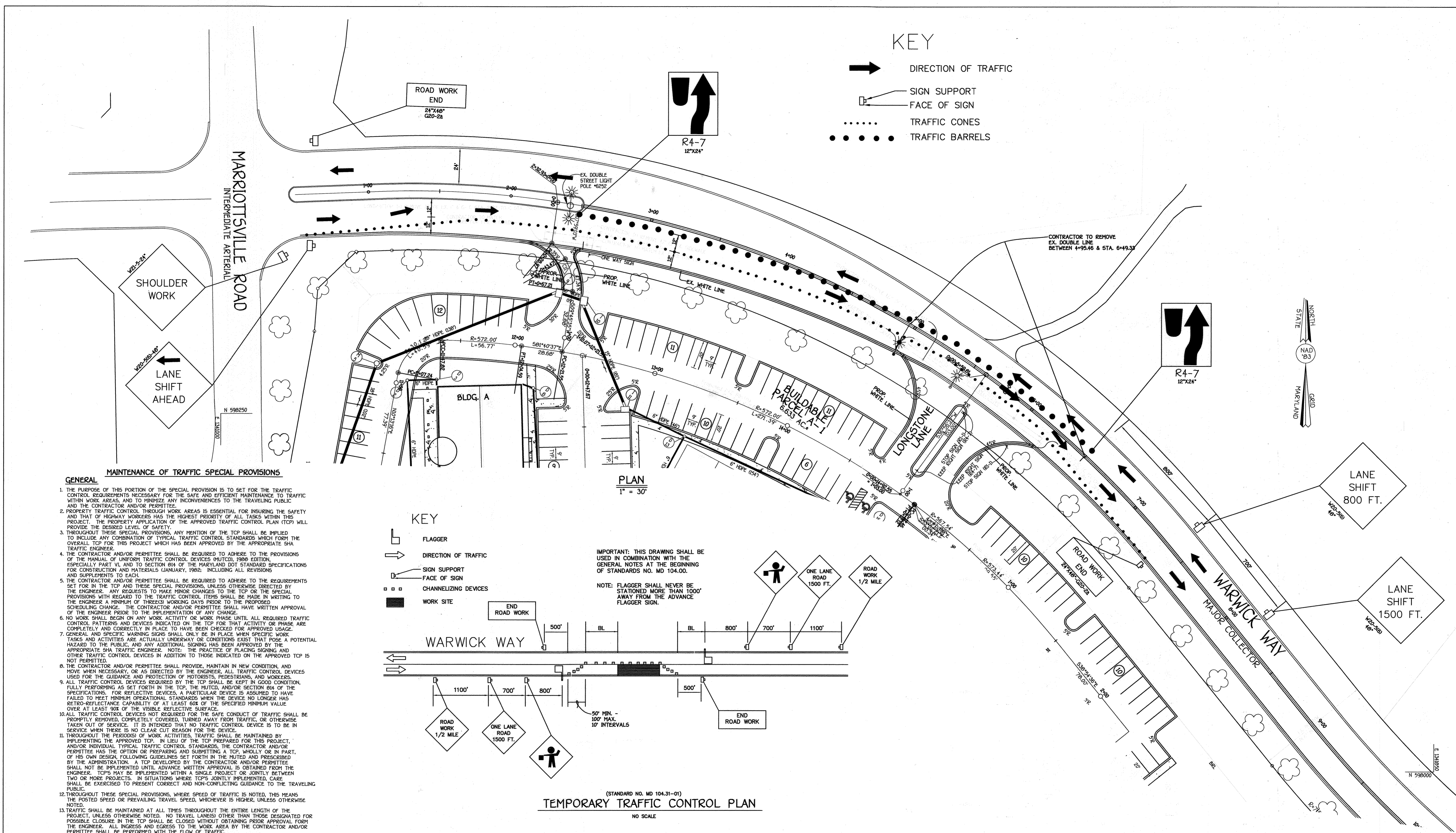
PROJECT: GTW'S WAVERLY WOODS SECTION: 7 LOTS NO.: PARCEL '1A'

PLAT: 1615F-1615Z BLOCK NO.: 5 & 10 ZONE: PEC TAX/ZONE: 16 ELEC. DIST.: 3rd CENSUS TR.: 6030.00

WATER CODE: H 05 SEWER CODE: 9992000

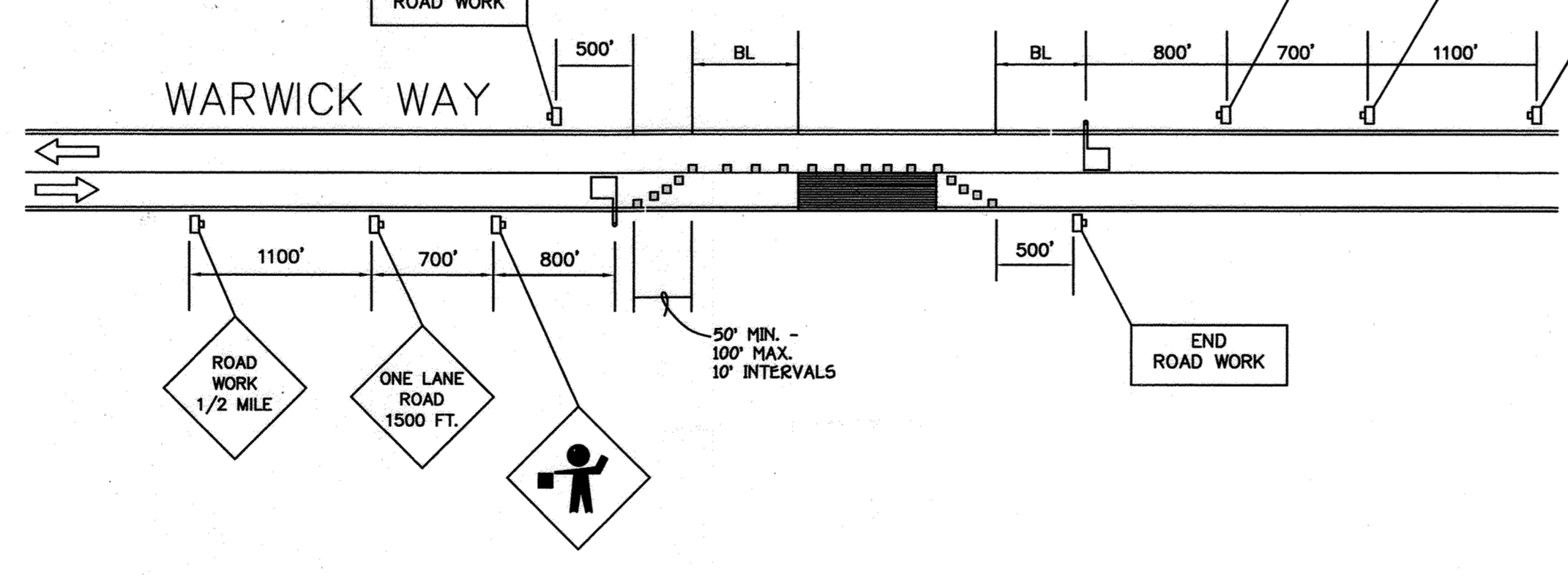
LANDSCAPE PLAN
GTW'S WAVERLY WOODS
SECTION 7
PARCEL 'A-1'
BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8
TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: OCTOBER 10, 2003
SHEET 12 OF 18

SDP-03-046



IMPORTANT: THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES AT THE BEGINNING OF STANDARDS NO. MD 104.00.

NOTE: FLAGGER SHALL NEVER BE STATIONED MORE THAN 1000' AWAY FROM THE ADVANCE FLAGGER SIGN.



(STANDARD NO. MD 104.31-01)
TEMPORARY TRAFFIC CONTROL PLAN
NO SCALE

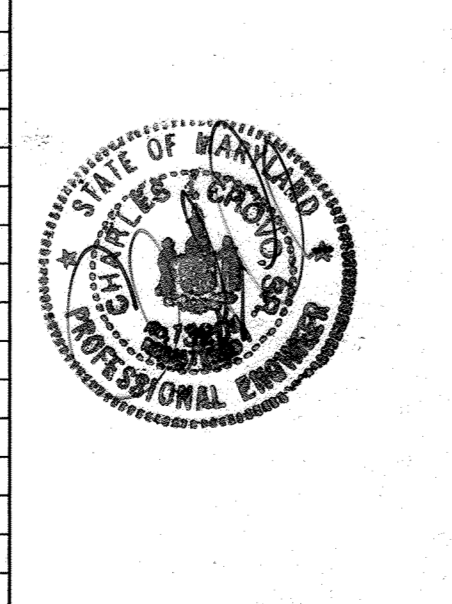
GENERAL MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

1. THE PURPOSE OF THIS PORTION OF THE SPECIAL PROVISION IS TO SET FOR THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE OF TRAFFIC WITHIN WORK AREAS, AND TO MINIMIZE ANY INCONVENIENCES TO THE TRAVELING PUBLIC AND THE CONTRACTOR AND/OR PERMITTEE.
2. PROPER TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY AND THAT OF HIGHWAY WORKERS HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE PROPER APPLICATION OF THE APPROVED TRAFFIC CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY.
3. THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL STANDARDS WHICH FORM THE OVERALL TCP FOR THIS PROJECT WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
4. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE PROVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1999 EDITION, ESPECIALLY PART VI, AND TO SECTION 814 OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JANUARY, 1982; INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH).
5. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS SET FOR IN THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE MINOR CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE(3) WORKING DAYS PRIOR TO THE PROPOSED SCHEDULING CHANGE. THE CONTRACTOR AND/OR PERMITTEE SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE.
6. NO WORK SHALL BEGIN ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE TO HAVE BEEN CHECKED FOR APPROVED USAGE.
7. GENERAL AND SPECIFIC WARNING SIGNS SHALL ONLY BE IN PLACE WHEN SPECIFIC WORK TASKS AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLIC, AND ANY ADDITIONAL SIGNING HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED.
8. THE CONTRACTOR AND/OR PERMITTEE SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY, OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND WORKERS.
9. ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION, FULLY PERFORMING AS SET FORTH IN THE TCP, THE MUTCD, AND/OR SECTION 814 OF THE SPECIFICATIONS. FOR REFLECTORIZING DEVICES, A PARTICULAR DEVICE IS ASSURED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS RETRO-REFLECTANCE CAPABILITY OF AT LEAST 60% OF THE SPECIFIED MINIMUM VALUE OVER AT LEAST 90% OF THE VISIBLE REFLECTIVE SURFACE.
10. ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR CUT REASON FOR THE DEVICE.
11. THROUGHOUT THE PERIODS OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY IMPLEMENTING THE APPROVED TCP. IN LIEU OF THE TCP PREPARED FOR THIS PROJECT, AND/OR INDIVIDUAL TYPICAL TRAFFIC CONTROL STANDARDS, THE CONTRACTOR AND/OR PERMITTEE HAS THE OPTION OF PREPARING AND SUBMITTING A TCP, WHOLLY OR IN PART, OF HIS OWN DESIGN FOLLOWING GUIDELINES SET FORTH IN THE MUTCD AND PRESCRIBED BY THE ADMINISTRATION. A TCP DEVELOPED BY THE CONTRACTOR AND/OR PERMITTEE SHALL NOT BE IMPLEMENTED UNTIL ADVANCE WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. TCP'S MAY BE IMPLEMENTED WITHIN A SINGLE PROJECT OR JOINTLY BETWEEN TWO OR MORE PROJECTS. IN SITUATIONS WHERE TCP'S JOINTLY IMPLEMENTED, CARE SHALL BE EXERCISED TO PRESENT CORRECT AND NON-CONFLICTING GUIDANCE TO THE TRAVELING PUBLIC.
12. THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS THE POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER, UNLESS OTHERWISE NOTED.
13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTED. NO TRAVEL LANES OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TCP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM THE ENGINEER. ALL INGRESS AND EGRESS TO THE WORK AREA BY THE CONTRACTOR AND/OR PERMITTEE SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 481-2855

DRAFT: J. LAMKE
DESIGN: R. ISAACS
CHECK: C. CROVO SR.

7-24-21 Add Sheets 15-18
DATE REVISION



ENGINEER'S CERTIFICATE
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.

Signature of Engineer: *M. Donald R. Reuser, Jr.* Date: 10/12/03

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

Signature of Developer: *M. Donald R. Reuser, Jr.* Date: 10-13-03

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: *[Date]*

Howard SCD Date: *[Date]*

OWNER/DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
C/O LAND DESIGN AND DEVELOPMENT
8000 MAIN STREET
ELLICOTT CITY, MARYLAND 21043
(410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *[Signature]* Date: 11/5/03
Chief, Development Engineering Division: *[Signature]* Date: 10/20/03
Director - Department of Planning and Zoning: *[Signature]* Date: 11/15/03

PLAT: 13439 16022-16027 16151-16152	GRID NO. 4	ZONE PEC	TAX MAP NO. 16	ELEC. DIST. THRD	CENSUS TR. 6030.00
WATER CODE H05	SEWER CODE 5992000				

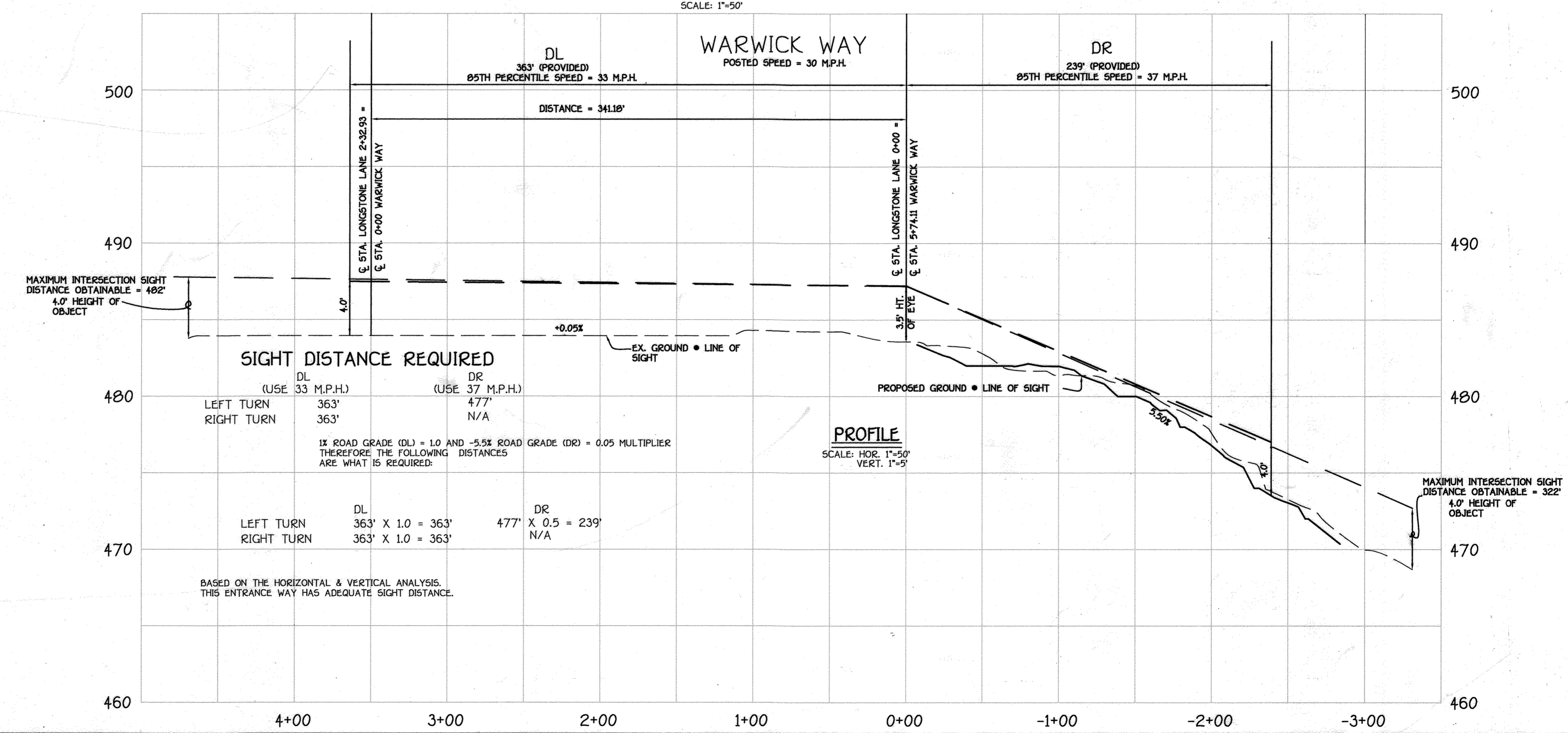
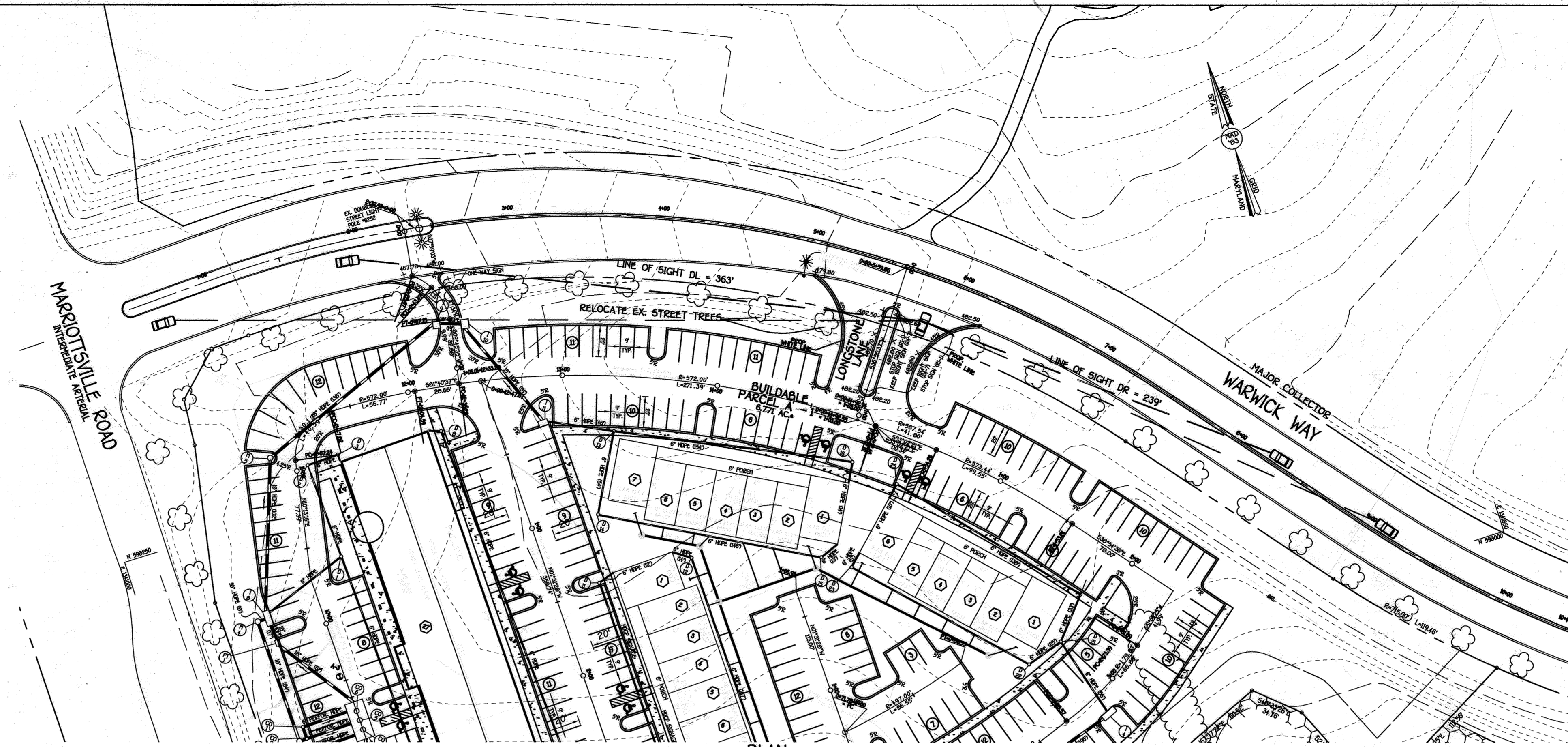
**SITE DEVELOPMENT PLAN
TRAFFIC CONTROL PLAN**

**GTW'S WAVERLY WOODS
SECTION 7
PARCEL 'A-1'**

BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: OCTOBER 10, 2003
SHEET 13 OF 18

SDP-03-046



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 462-2000

DRAFT: J. LAMKE
DESIGN: R. ISAACS
CHECK: C. CROVO SR.

NO.	REVISION	DATE
1	Add Sheets 18-18	7-26-21



ENGINEER'S CERTIFICATE
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.

Signature of Engineer: *[Signature]* Date: 10/13/03

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

Signature of Developer: *[Signature]* Date: 10-13-03

Reserved for HOWARD SCD and meets Technical Requirements.

U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for sediment and erosion control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD Date: *[Signature]*

OWNER / DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
c/o LAND DESIGN & DEVELOPMENT
8000 MAIN STREET
ELICOTT CITY, MARYLAND 21043
(410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *[Signature]* Date: 11/5/03
Chief, Development Engineering Division: *[Signature]* Date: 10/28/03
Director - Department of Planning and Zoning: *[Signature]* Date: 12/15/03

PROJECT: GTW'S WAVERLY WOODS SECTION: 7 LOTS NO.: PARCEL 'A-1'

PLAT 13439	BLOCK NO. 4	ZONE PEC	TAX/ZONE 16	ELEC. DIST. 3rd	CENSUS TR. 6030.00
------------	-------------	----------	-------------	-----------------	--------------------

WATER CODE: H 05 SEWER CODE: 5992000

**SITE DEVELOPMENT PLAN
SIGHT DISTANCE PROFILE**

**GTW'S WAVERLY WOODS
SECTION 7
PARCEL 'A-1'**

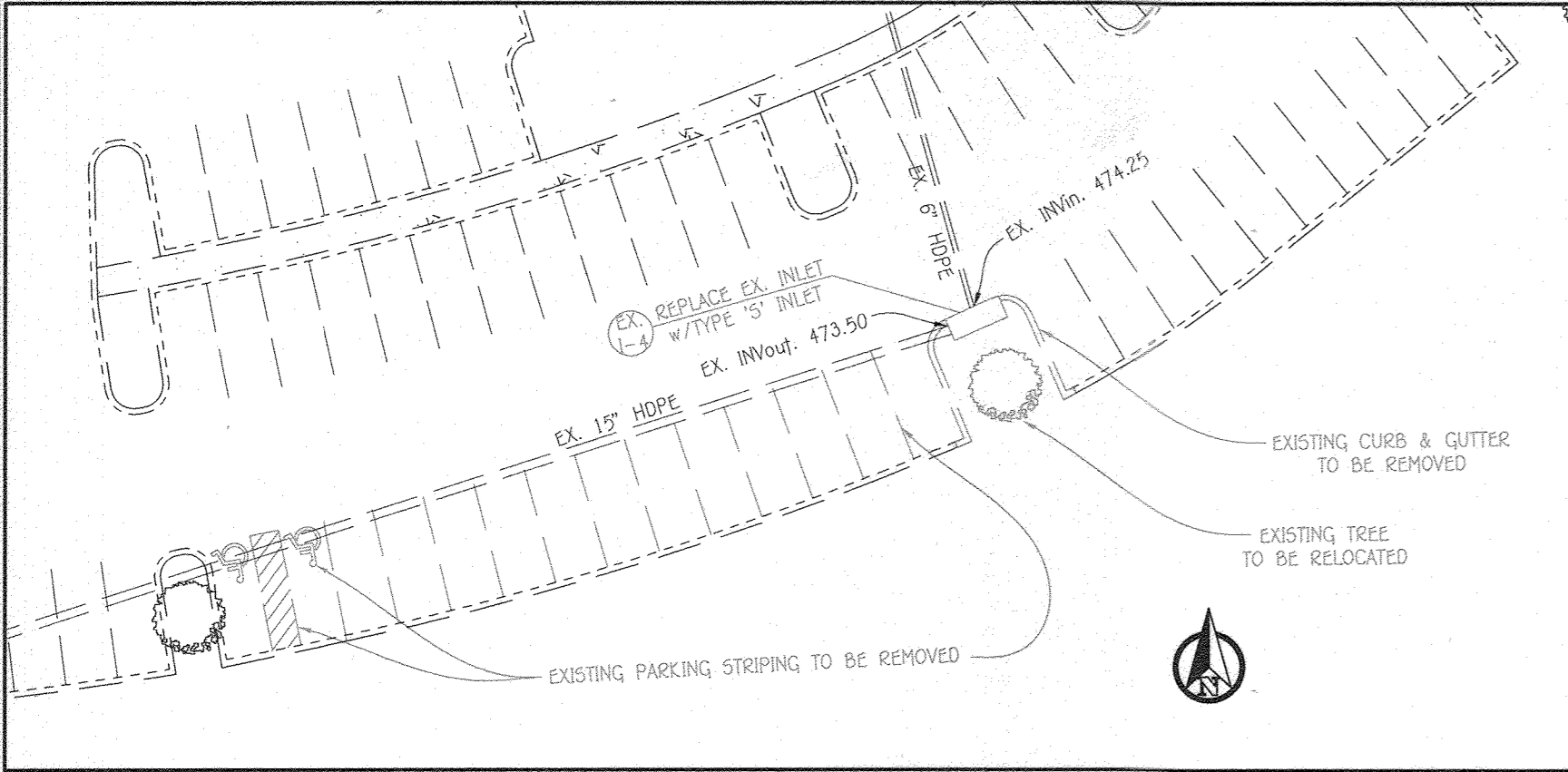
BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6, & BUILDING 'D' UNITS 1-8

TAX MAP No: 16 P/O PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: OCTOBER 10, 2003
SHEET 14 OF 18

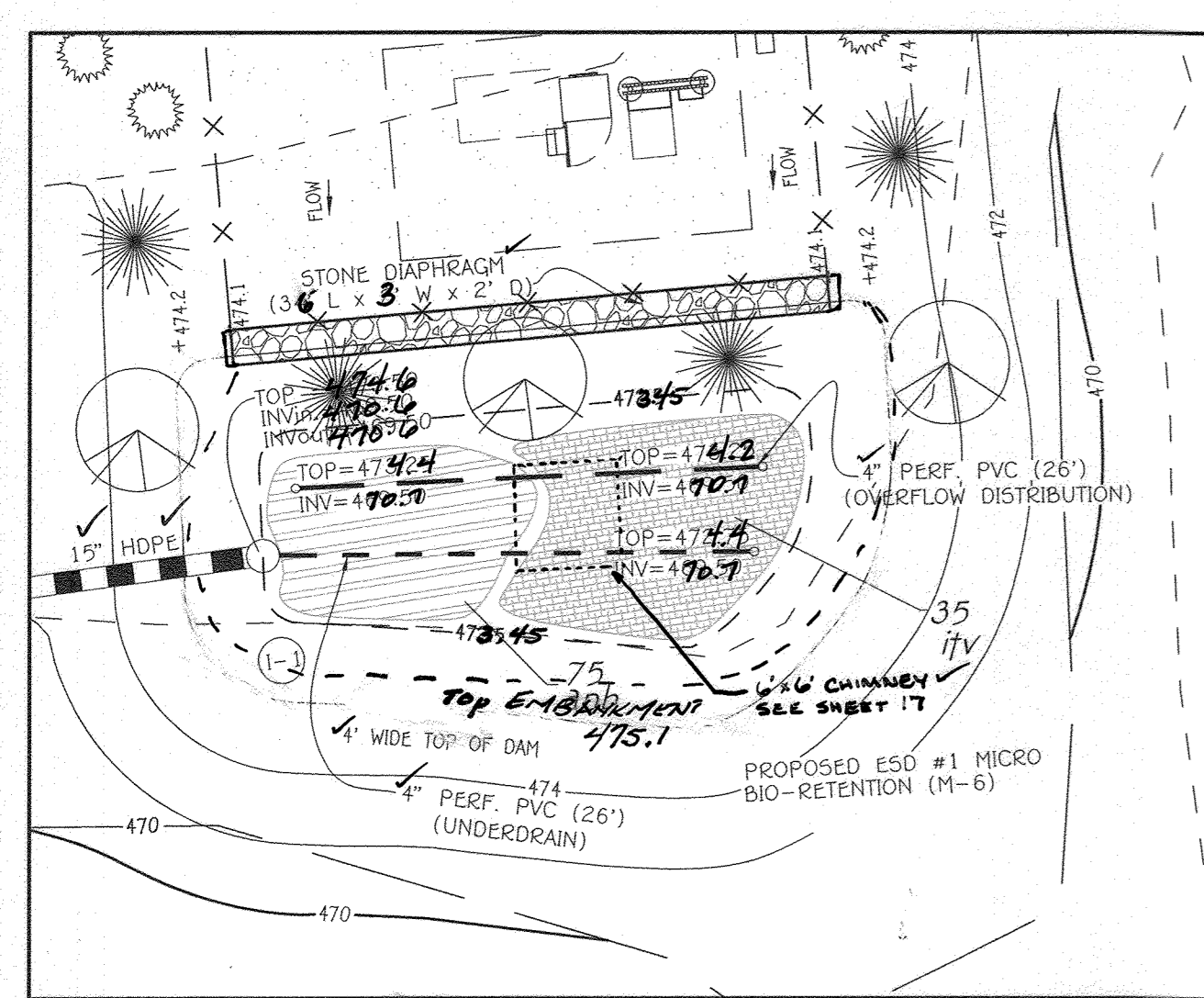
SDP-03-046

SOILS LEGEND		
SOIL	NAME	CLASS
BaA	Baile silt loam, 0 to 3 percent slopes	D
GbB	Gladstone loam, 3 to 8 percent slopes	B

NOTES:
 * Hydric soils and/or contains hydric inclusions
 ** May contain hydric inclusions
 † Generally only within 100-year floodplain areas



DEMOLITION PLAN
 SCALE: 1" = 30'



ESD PLAN (M-6)
 SCALE: 1" = 10'

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	REMARKS
75	onb	Aster novo-belgii	New York Aster	#1	Cont.	18" O.C.
35	lrv	Itea virginica 'Henry's Garnet'	Sweetspire	24"-30" HL	Cont.	36" O.C.

LEGEND	
SYMBOL	DESCRIPTION
---100---	EXISTING CONTOUR 10' INTERVAL
---102---	EXISTING CONTOUR 2' INTERVAL
---100---	PROPOSED CONTOUR 10' INTERVAL
---102---	PROPOSED CONTOUR 2' INTERVAL
+14.72	PROPOSED SPOT SHOT
---	EXISTING TREETLINE
BaA	SOILS
---	WETLAND BUFFER
---	WETLANDS
---	FLOODPLAIN
---	STREAM
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	PROPOSED STONE TRENCH
---	PROPOSED LANDSCAPING
P	EXISTING POWER (ELECTRIC) LINE
T	EXISTING TELEPHONE LINE
GS	EXISTING GAS LINE

AT&T COLLOCATION CERTIFICATION:
 I hereby verify readings shown on this plan are in accordance with AT&T Construction Drawings by Forest Group dated 01/27/22 Jm.

NO.	DATE	REVISION
10		AT&T COLLOCATION

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2895

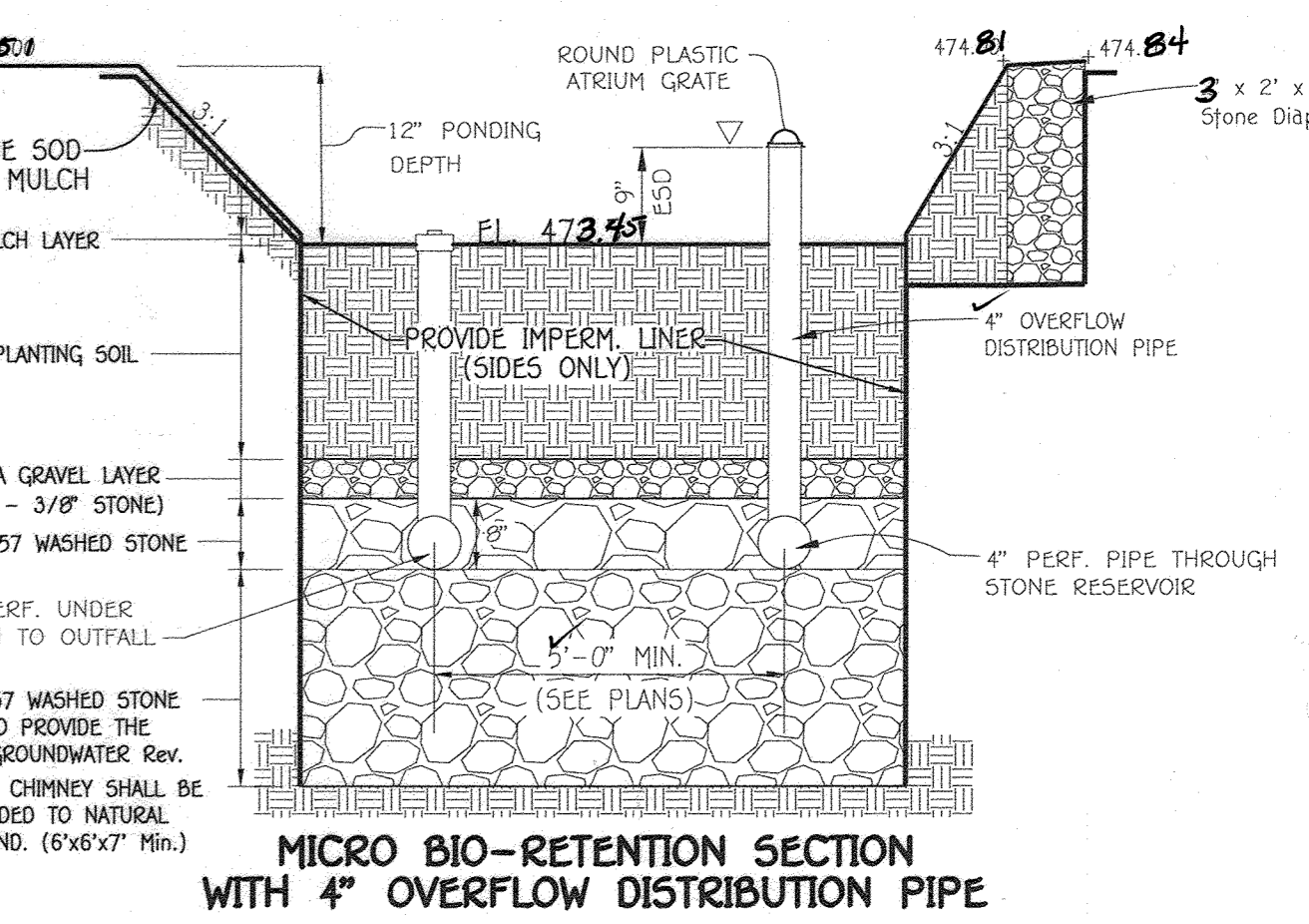


GENERAL NOTES FOR SHEET 15 & 16:

- SUBJECT PROPERTY ZONED PEC PER 10/6/13 COMPREHENSIVE ZONING PLAN.
- THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES ZB 929-M, S 94-07, P 97-04, F 03-198, AND F 97-180.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- BOUNDARY SURVEY PERFORMED BY FISHER COLLINS AND CARTER INC. ON OR ABOUT AUGUST, 1990.
- EXISTING TOPOGRAPHY SHOWN HEREON IS FROM MASS GRADING PLAN SDP 96-115 AND SUPPLEMENTED WITH A FIELD RUN SURVEY.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON HOWARD COUNTY GEOMETRY CONTROL STATIONS:
 HOWARD COUNTY MONUMENT 1012 N 601060.177 ELEV. = 445.577
 E 1345336.7580
 N 593250.9322 ELEV. = 509.924
 E 1340192.7110
 HOWARD COUNTY MONUMENT 16E1
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE LOCATIONS OF EXISTING UTILITIES ARE BASED ON CONTRACT NOS. 24-3600-D, AND 24-3601-D, F 97-180 & MISS UTILITY MARKINGS (GAS, TELEPHONE & ELECTRIC).
- THERE IS NO FLOODPLAIN LOCATED ON THIS SITE.
- A REVISED WETLANDS REPORT HAS BEEN APPROVED BY HOWARD SOIL CONSERVATION SERVICE. THE APPROVED WETLANDS REVISION PLAN HAS BEEN RECORDED AS PLAT # 16151-16152, ON SEPTEMBER 5, 2003.
- THERE IS NO TRAFFIC STUDY REQUIRED FOR THIS PROJECT, HOWEVER A TRAFFIC STUDY WAS PREPARED BY THE TRAFFIC GROUP, INC. AND A.P.F.O. REGULATIONS WERE COMPLIED WITH AND WAS APPROVED ON OCT. 21, 1993.
- THIS PLAN SHALL BE SUBJECT TO COMPLIANCE WITH THE FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION REGULATIONS AND THE AMENDED ZONING REGULATIONS.
- THIS PLAN HAS HAD FOREST CONSERVATION REQUIREMENTS SUBMITTED AND APPROVED UNDER F-97-180.
- THIS PLAN IS SUBJECT TO A DESIGN MANUAL WAIVER REQUESTING A WAIVER FROM DESIGN MANUAL VOLUME III, SECTION 2.6.C WHICH REQUIRES THAT A COMMERCIAL DRIVEWAY WIDTHS BE 16' FOR ONE-WAY AND 24' FOR TWO-WAY TRAFFIC TO ALLOW FOR A REDUCTION TO 12'. THIS WAIVER WAS APPROVED ON JULY 19, 2021 WITH THE FOLLOWING CONDITIONS:
 1) THE DRIVEWAY ENTRANCE WILL HAVE A STANDARD DRIVEWAY APRON.
 2) THE ENTIRE DRIVEWAY AND SERVICE AREA SHALL BE A MINIMUM 6" GRAVEL WITH A TAR AND CHIP COATING TO ENSURE THAT THE AREAS DO NOT DEGRADE AND RUNOFF FROM THE PAVED AREAS DO NOT ADVERSELY IMPACT THE ESD PRACTICE.
 3) IT IS SUGGESTED THAT THE "TELCO VAULTS" AND "SERVICE FRAMES" BE UPGRADED (IF NOT ALREADY) TO TRAFFIC BEARING STRUCTURES.

SITE ANALYSIS DATA CHART

- TOTAL AREA OF PARCEL "A-1" = 6.715 AC.
- LIMIT OF DISTURBED AREA = 14,311 SQ.FT. OR 0.33 AC. (THIS SHEET)
- PRESENT ZONING DESIGNATION = PEC (PER 10/6/13 COMPREHENSIVE ZONING PLAN)
- PROPOSED USE: TREE POLE SITE
- OPEN SPACE ON SITE: N/A
- RECREATIONAL AREA: PROVIDED: N/A
- PROPOSED IMPERVIOUS AREA: 4,298 SQ.FT. OR 0.099 AC.
- PREVIOUS HOWARD COUNTY FILES: F-97-180
- TOTAL AREA OF EX. FLOODPLAIN LOCATED ON SITE: 0.00 AC.
- TOTAL AREA OF SLOPES IN EXCESS OF 15% = 16,180 SQ.FT.
- NET TRACT AREA = 6.715 AC.
- (TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES AREA)
- TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 4,049 SQ.FT.
- TOTAL AREA OF EX. FOREST = 0.00 AC.
- TOTAL GREEN OPEN AREA = 2.66 AC.
- TOTAL IMPERVIOUS AREA = 4,298 AC. (THIS SHEET)
- AREA OF ERODIBLE SOILS = 0.00 AC.



OPERATION AND MAINTENANCE SCHEDULE FOR BIORETENTION AREAS (M-6)

- The owner shall maintain the plant material, mulch layer and soil layer annually, maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland stormwater design manual volume II, table A-1 and 2.
- The owner shall perform a plant in the spring and in the fall each year, during the inspection, the owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material, trees diseased trees and shrubs and replace all deficient stakes and wires.
- The owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the new layer is applied.
- The owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.

Stormwater Management Information				
Lot/Parcel No.	Facility Name & No.	Practicer Type (Quantity)	Public	Private
A-1	ESD #1	(M-6) - 1	X	NO

ENGINEER'S CERTIFICATE
 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.
 Signature of Engineer: Paul Gerard Cavanaugh
 Date: Nov 16, 2021

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.
 Signature of Developer: [Signature]
 Date: Nov 16, 2021

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: Alexander Bostick
 Date: 12/01/21

OWNER/DEVELOPER
 WAVERLY WOODS DEVELOPMENT CORPORATION
 C/O LAND DESIGN AND DEVELOPMENT
 8000 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043
 (410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development	12/14/21
Chief, Development Engineering Division	12-9-21
Director, Department of Planning and Zoning	12-15-21

SUBDIVISION NAME: GTW'S WAVERLY WOODS SECTION/AREA: 7 LOT/PARCEL NO.: PARCEL 'A-1'

PLAT	BLOCK NO.	ZONE	TAX MAP NO.	ELEC. DIST.	CENSUS TR.
13439, 16022-16027, 16151-16152	4	PEC	16	THIRD	6030.00
WATER CODE:	H 05		SEWER CODE:	5992000	

MILESTONE COMPOUND SITE, GRADING, SEDIMENT & EROSION CONTROL PLAN
GTW'S WAVERLY WOODS SECTION 7
PARCEL 'A-1'
 BUILDING 'A', BUILDING 'B' UNITS 1-7,
 BUILDING 'C' UNITS 1-6 & BUILDING 'D', UNITS 1-8
 TAX MAP No: 16 PART OF PARCEL: 424
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: A5 SHOWN DATE: AUGUST, 2021
 SHEET 15 OF 18

SOILS LEGEND		
SOIL	NAME	CLASS
BaA	Baile silt loam, 0 to 3 percent slopes	D
GbB	Gladstone loam, 3 to 8 percent slopes	B

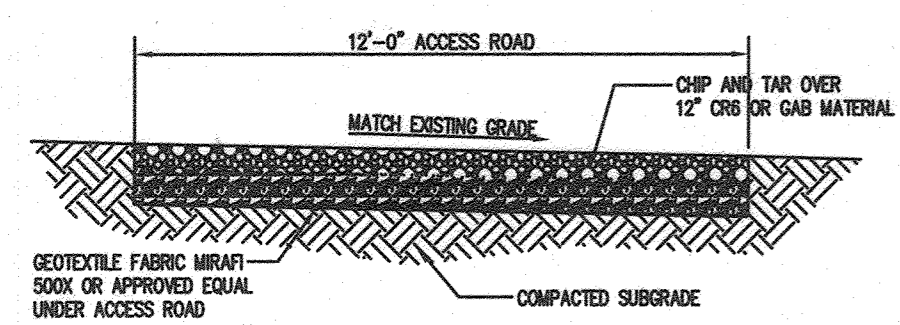
NOTES:
 • Hydric soils and/or contains hydric inclusions
 • May contain hydric inclusions
 † Generally only within 100-year floodplain areas

PRIVATE STRUCTURE SCHEDULE - THIS SHEET									
STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	NORTH	EAST	ROAD STA.	OFFSET	TYPE	REMARKS
I-1	474.6	470.6 (4')	470.6 (15')	997846.07	1341420.47	-----	---	15" BASIN	Nyloplast OR EQUAL
I-4 (REPLACEMENT)	477.00	474.25 (6')	473.50 (15')	997965.67	1341573.32	-----	---	5" INLET	D - 4.24
M-1	473.00	469.95 (15')	469.95 (15')	997804.41	1341315.33	-----	---	4" STD. MANHOLE	G - 5.12
M-2	474.00	469.98 (15')	469.98 (15')	997805.40	1341309.71	-----	---	4" STD. MANHOLE	G - 5.12

PIPE SCHEDULE - THIS SHEET		
SIZE	CLASS	LENGTH
4"	PVC, SCH. 40 (PERFORATED)	52'
15"	HDPE	136'

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)				
		3 TO <5	5 TO <7	7 TO <9	9 TO <12	
P-1	PARKING BAYS: RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE AISLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY TRUCKS PER DAY	HMA SUPERPAVE FINAL SURFACE 5.5 (MMA PG 64-22, LEVEL 1 (ESAL))	1.5	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE N/A	N/A	N/A	N/A	N/A
		HMA SUPERPAVE BASE 19.0 (MMA PG 64-22, LEVEL 1 (ESAL))	2.0	2.0	3.5	3.0
		GRADED AGGREGATE BASE (GAB)	0.5	7.0	5.0	4.0

NOTE: P-1 PAVING MAY BE SUBSTITUTED FOR THE TAR & CHIP SECTION



THE ACCESS ROAD AREA SHALL BE CLEARED AND GRUBBED, PROOF ROLLED AND FILLED WITH STRUCTURAL FILL AS NEEDED IN ACCORDANCE WITH THE SITE PREPARATION SECTION OF THE GEOTECHNICAL REPORT.

CHIP AND TAR ACCESS ROAD DETAIL
SCALE: N.T.S.

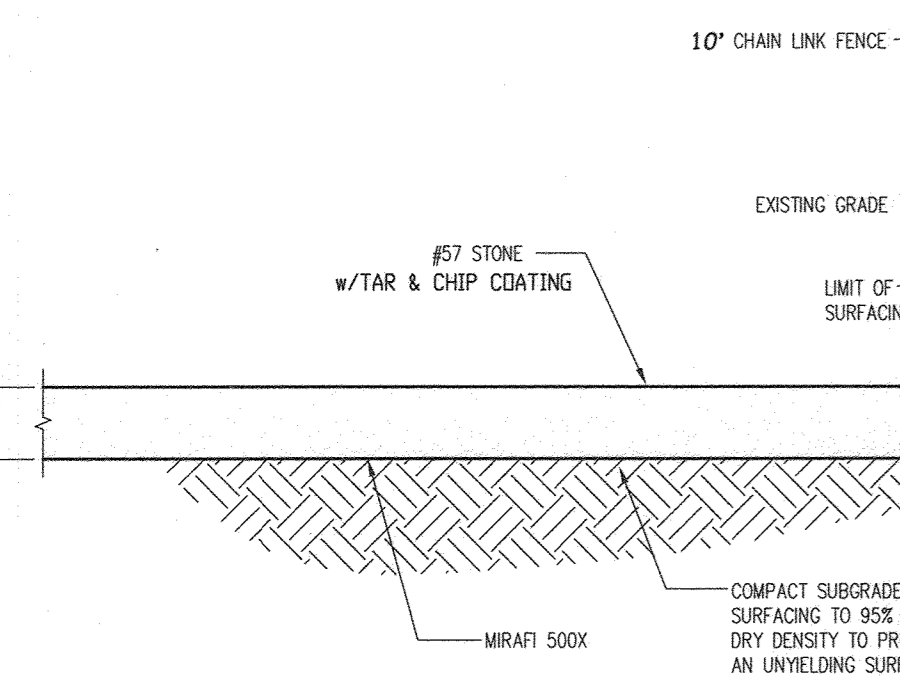
Proposed Buried Conduits for AT&T Power Routing From Proposed Power Meter (120kV/200A) to Proposed AC Panel on AT&T Pad

- Proposed AT&T 120kV (120SF) Pad in 15'6" x 18'6" Lease Area (280SF) to include:
- (2) Shaded Power Cabinets
 - (1) DC Power Plant Cabinets
 - (1) Utility H-Frame w/
 - (1) 120kV/200A AC Panel
 - (3) Buried Conduits to Manholes

AT&T COLOCATION CERTIFICATION:
 I hereby verify redlines shown on this plan are in accordance with AT&T Construction Drawings by Forcaste Group dated 01/27/2022

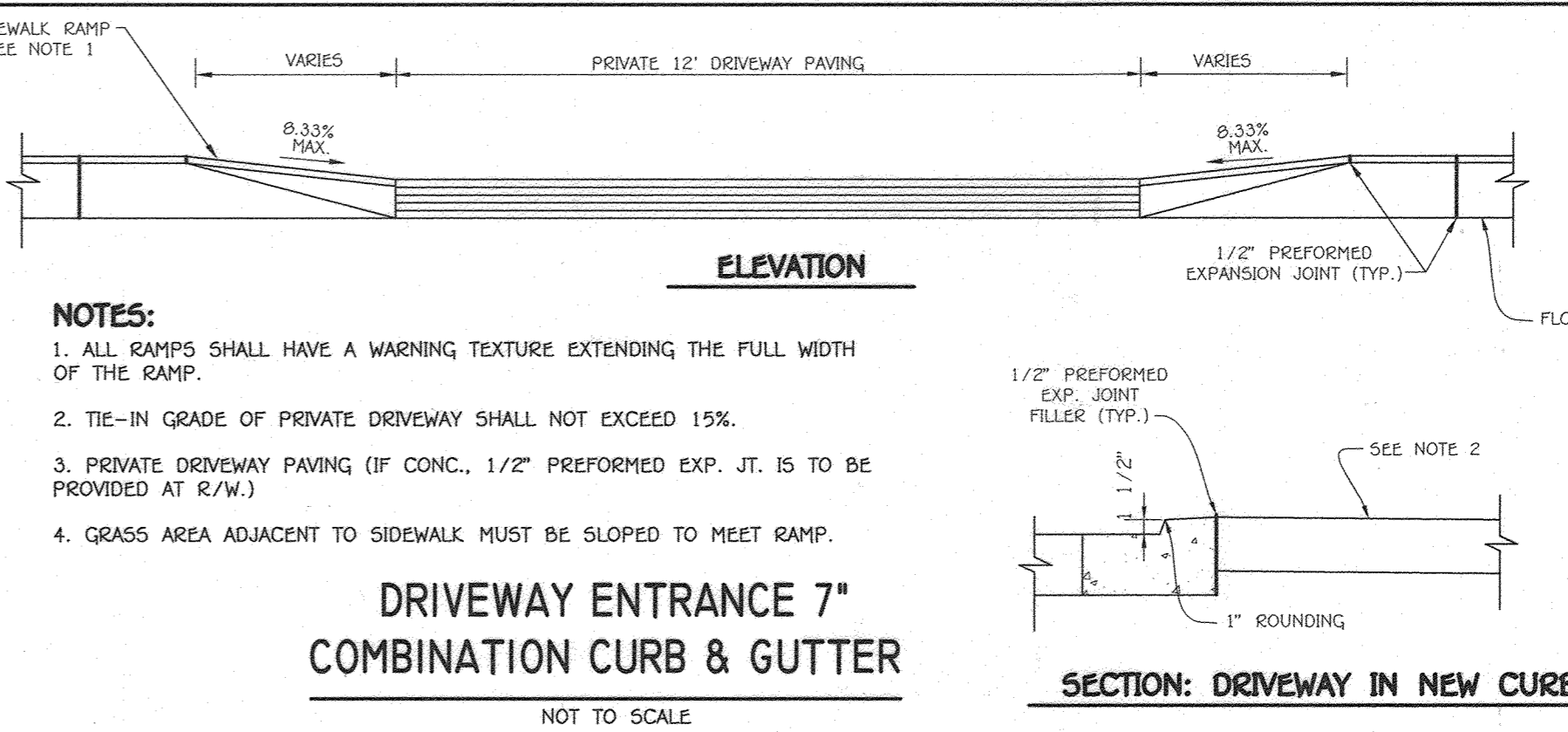
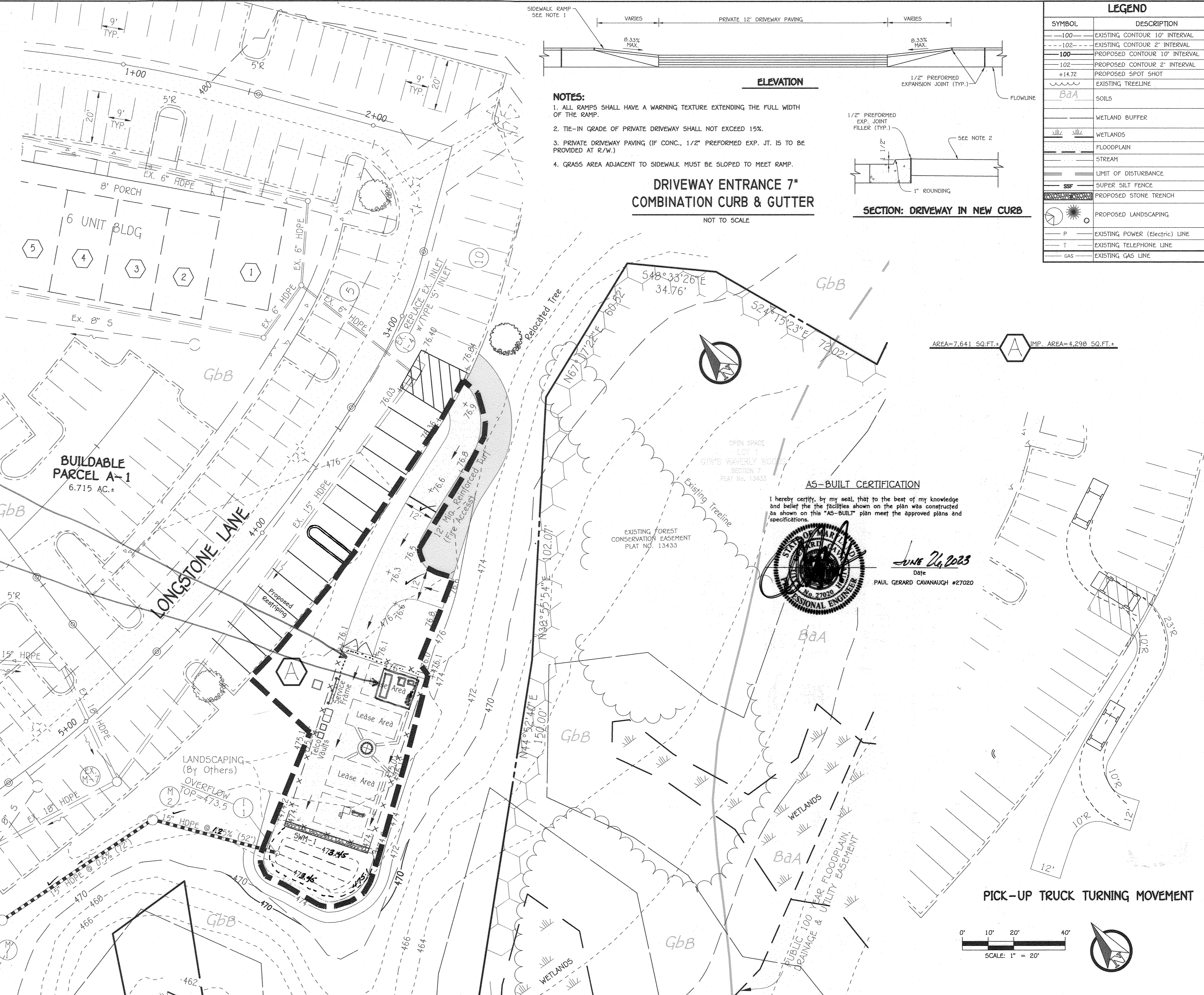


SCALE: 1" = 20'



NOTE:
 LEASE AREA SHALL BE CLEARED AND GRUBBED. REMOVE UNSUITABLE LOOSE OR SOFT SOIL, ORGANIC MATERIAL OR RUBBLE TO FIRM SUBGRADE. PROOF ROLL COMPOUND AREA WITH A 10 TON TRUCK. FILL UNDERCUT AND COMPACT UP TO 6" BELOW FINISH GRADE. PLACE A MIRAFI 500K SOIL STABILIZATION FABRIC ON SUBGRADE. FILL WITH 6" OF AASHTO 57 STONE TO FINISH GRADE.
 REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

COMPOUND SURFACING DETAIL
SCALE: N.T.S.



SECTION: DRIVEWAY IN NEW CURB
NOT TO SCALE

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 10' INTERVAL
- - -	EXISTING CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
+	EXISTING SPOT SHOT
---	EXISTING TRELLINE
BaA	SOILS
---	WETLAND BUFFER
---	WETLANDS
---	FLOODPLAIN
---	STREAM
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	PROPOSED STONE TRENCH
---	PROPOSED LANDSCAPING
P	EXISTING POWER (ELECTRIC) LINE
T	EXISTING TELEPHONE LINE
GAS	EXISTING GAS LINE

AS-BUILT CERTIFICATION
 I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on the plan were constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.
 Date: June 26, 2023
 Paul Gerard Cavanaugh #27020

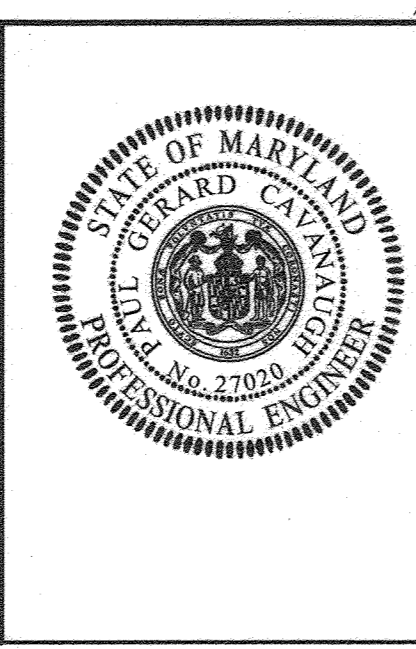


PICK-UP TRUCK TURNING MOVEMENT

SCALE: 1" = 20'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10272 BALTIMORE NATIONAL PLACE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2855

NO.	DATE	REVISION
10		AT&T COLOCATION



ENGINEER'S CERTIFICATE
 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.
 Signature of Engineer: Paul G. Cavanaugh
 Date: Nov 16, 2021

DEVELOPER'S CERTIFICATE
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 Signature of Developer: [Signature]
 Date: Nov 16, 2021

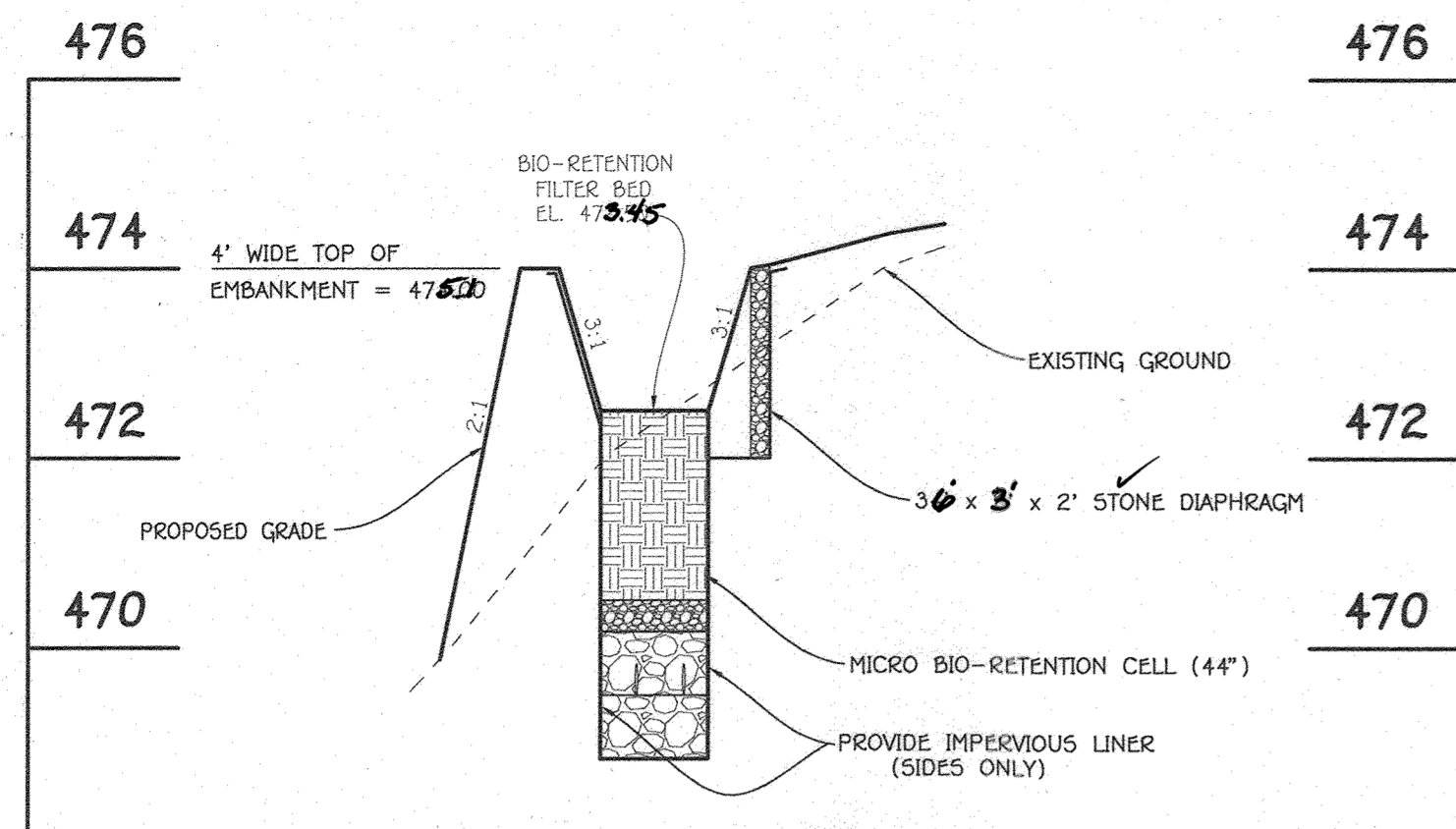
OWNER/DEVELOPER
 WAVERLY WOODS DEVELOPMENT CORPORATION
 C/O LAND DESIGN AND DEVELOPMENT
 8000 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043
 (410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development	12/14/21
Chief, Development Engineering Division	12-9-21
Director, Department of Planning and Zoning	12-15-21

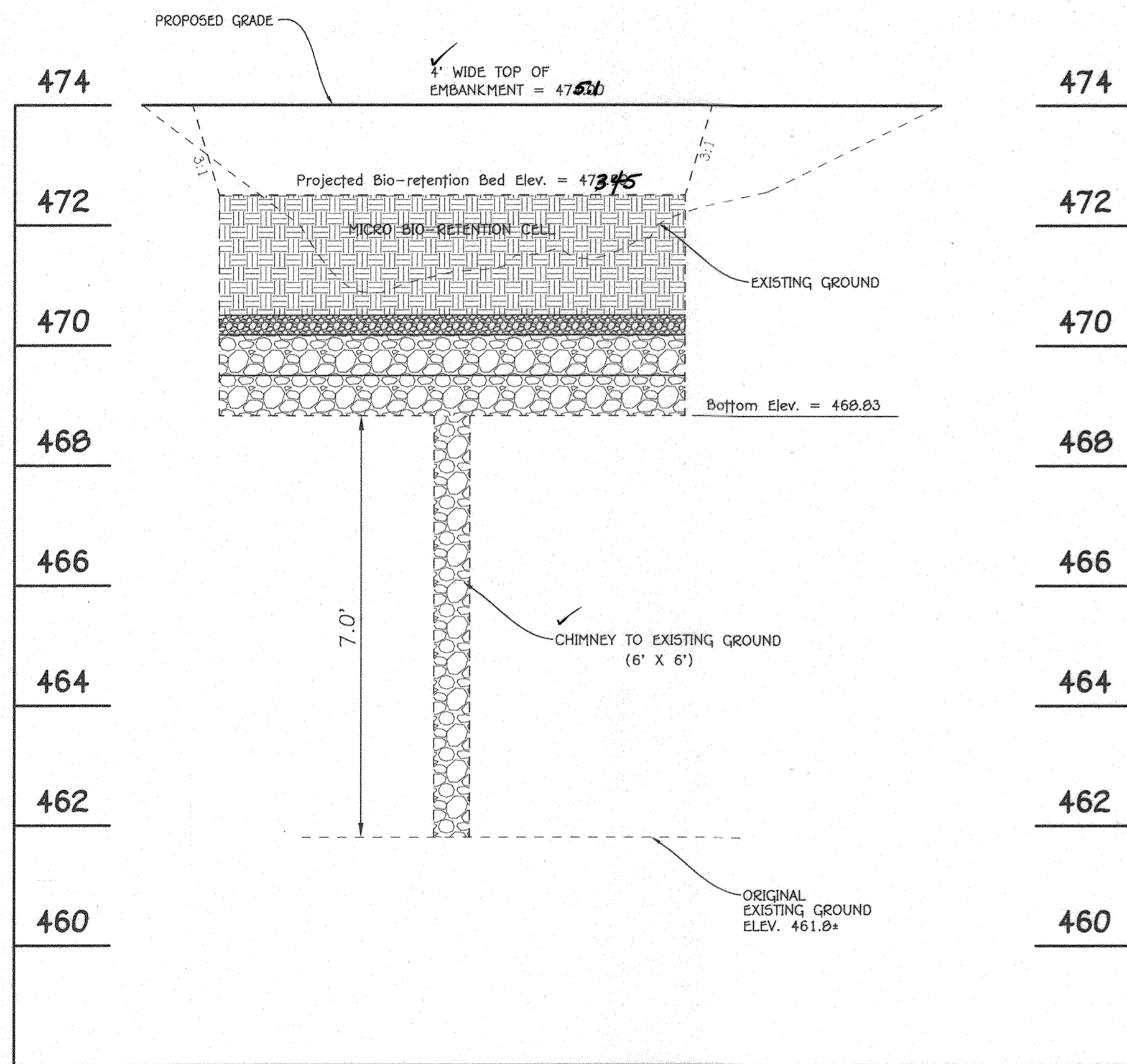
PLAT	BLOCK NO.	ZONE	TAX MAP NO.	ELEC. DIST.	CENSUS TR.
13439, 16022-16027, 16151-16152	4	PEC	16	THIRD	6030.00
WATER CODE	SEWER CODE				
H 05	5992000				

MILESTONE COMPOUND STORMWATER DRAINAGE AREA MAP & DETAILS
GTW'S WAVERLY WOODS SECTION 7 PARCEL 'A-1'
 BUILDING 'A', BUILDING 'B' UNITS 1-7, BUILDING 'C' UNITS 1-6 & BUILDING 'D', UNITS 1-8
 TAX MAP No: 16 PART OF PARCEL: 424
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUGUST, 2021
 SHEET 16 OF 18



SECTION THRU ESD No. 1

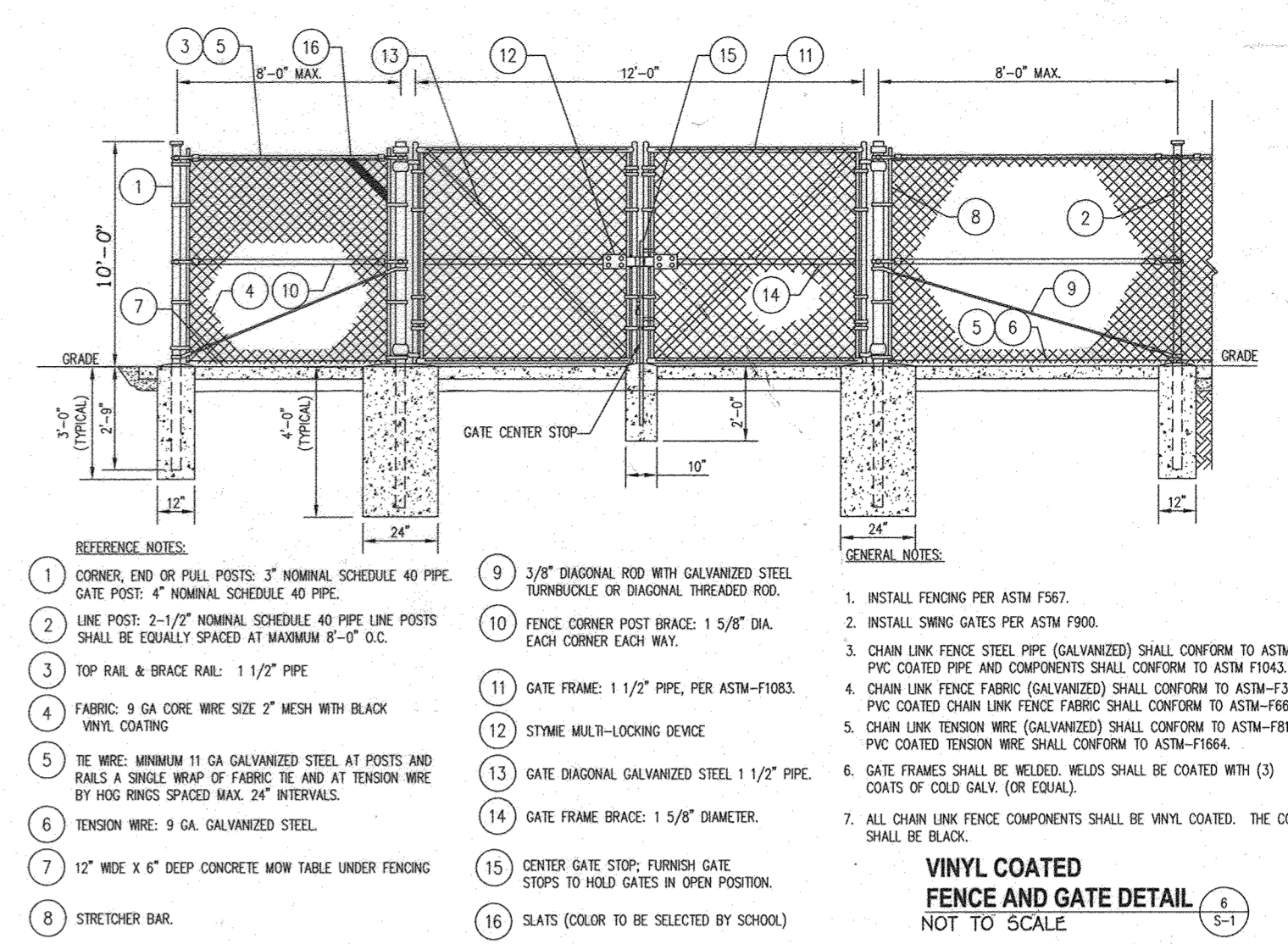
SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'



PROFILE ALONG TOP OF EMBANKMENT

SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'

CLIENT: New Line Residential, LLC				PROJECT NO.: 2023-01	BORING NO.: BHM-1	SHEET: 2 of 1
PROJECT NAME: Milestone Towers Waverly Woods				DRIVER: [Signature]	DATE: 11/16/2023	SCALE: 1:1
SITE LOCATION: Longshore Ln, Woodstock, Maryland 21153				USE OF ENCLAVATION: [Signature]		
STATION: 10+18.2				SURFACE ELEVATION: 424.0		
DEPTH (FT)	SAMPLE NUMBER	SAMPLE TYPE	RECOVERY (%)	DESCRIPTION OF MATERIAL	WATER LEVELS	REMARKS
				Topsoil Thickness (4")		
5-1	SS 18 12	(SC FILL) FILL, CLAYEY SAND, brown, moist, loose	100		43.4	
5-2	SS 18 8	(SC FILL) FILL, CLAYEY SAND, trace gravel, brown, moist, loose, trace roots	100		43.5	
5-3	SS 18 14	(SC FILL) FILL, CLAYEY SAND, trace gravel, dark gray, moist, very loose, few wood, few organics	100		43.9	
5-4	SS 18 16	(SC FILL) FILL, SANDY CLAY, dark brown, moist, firm	100		44.3	
5-5	SS 18 16	(SM) SILTY SAND, trace gravel, brown, moist, loose	100		44.4	
				END OF DRILLING AT 18.0 FT		



VINYL COATED FENCE AND GATE DETAIL NOT TO SCALE

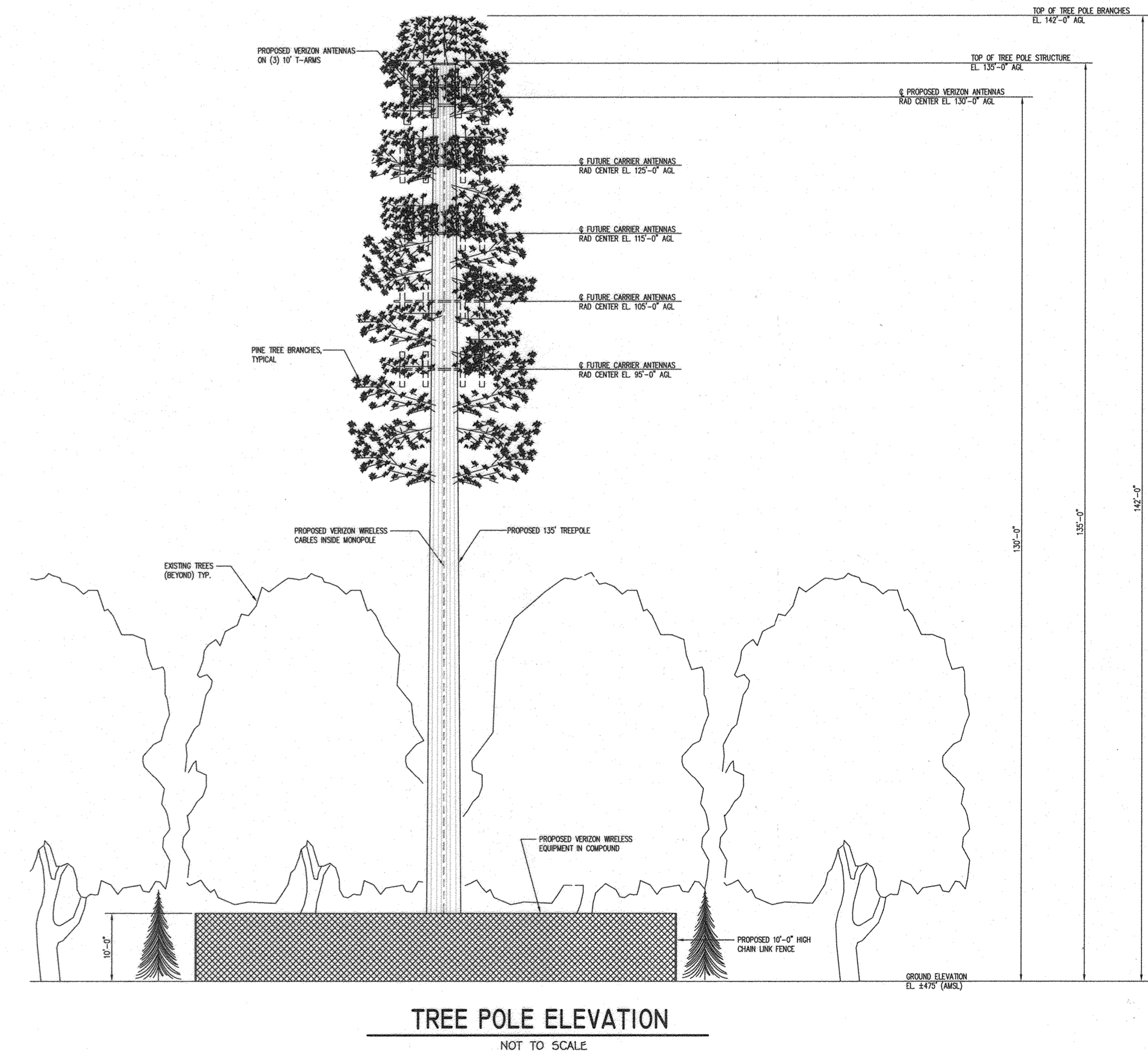
AS-BUILT CERTIFICATION

I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on the plan was constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.

Date: June 26, 2023

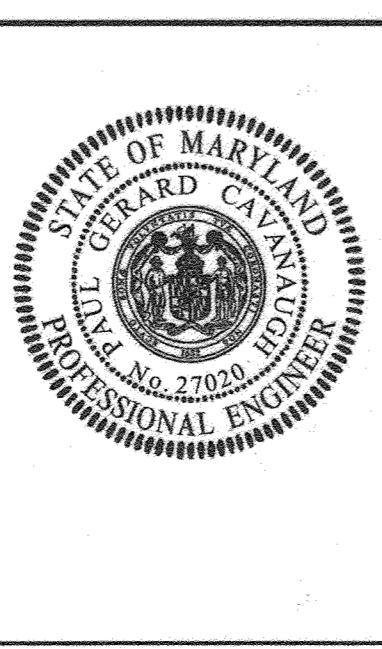
PAUL GERARD CAVANAUGH #27020

Paul Gerard Cavanaugh
Professional Engineer



TREE POLE ELEVATION NOT TO SCALE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2855



ENGINEER'S CERTIFICATE

"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."

Paul Gerard Cavanaugh
Signature of Engineer
Date: Nov 16, 2021

DEVELOPER'S CERTIFICATE

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

[Signature]
Signature of Developer
Date: Nov 16, 2021

OWNER/DEVELOPER

WAVERLY WOODS DEVELOPMENT CORPORATION
C/O LAND DESIGN AND DEVELOPMENT
8000 MAIN STREET
ELLCOTT CITY, MARYLAND 21043
(410) 480-9105

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: [Signature] Date: 12/14/21

Chief, Development Engineering Division: [Signature] Date: 12-9-21

Director, Department of Planning and Zoning: [Signature] Date: 12-15-21

PLAT	BLOCK NO.	ZONE	TAX MAP NO.	ELEC. DIST.	CENSUS TR.
13439, 16022-16027, 16151-16152	4	PEC	16	THIRD	6030.00
WATER CODE		SEWER CODE			
H 05		5992000			

MILESTONE COMPOUND NOTES & DETAILS

GTW'S WAVERLY WOODS SECTION 7

PARCEL 'A'-1'

BUILDING 'A', BUILDING 'B' UNITS 1-7,
BUILDING 'C' UNITS 1-6 & BUILDING 'D', UNITS 1-8

TAX MAP No: 16 PART OF PARCEL: 424
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: A5 SHOWN DATE: AUGUST, 2021
SHEET 17 OF 18

