

**GENERAL NOTES**

1. Present Zoning: R.A. 15
2. Area of section: 10.406 Ac.
3. Number of dwelling units: 156 units
4. Public water and public sewer will be utilized in this submission.
5. The bearings and distances shown hereon are based on the Md. State Grid System.
6. Street trees shall be provided by the developer.
7. All setback distances are shown.
8. Water and sewer service to these units will be granted under the provisions of section 18.122 B of the Howard County Code.
9. Area of proposed parcels: 9.05 Ac.±
10. Area of roads: 1.356 Ac.±
11. Number of dwelling units allowed: 15 units/ac.: 10.406 X 15 = 156
12. % Open space = 48% or 5.01 Ac.
13. Parking space req'd. = 1.5 spaces/unit = 15 X 156 = 234 spaces. Parking space provided = 240 spaces.
14. Building Nos. 1 to 4 are Garden Apartments with 12 two-bedroom units per building.
15. All stormwater facilities are to be privately owned and maintained.

**DENSITY TABULATIONS**

1. Gross area	10.406 Ac.
2. Floodplain/Steep slopes	N.A.
3. Net area	10.406 Ac.
4. No. of dwelling units allowed based on net area	156
5. No. of dwelling units allowed total	156
6. No. of dwelling units proposed total	156
7. Density per acre	15
8. Floodplain lot adjustment lot allowance	NA

**PARKING REQUIREMENTS**

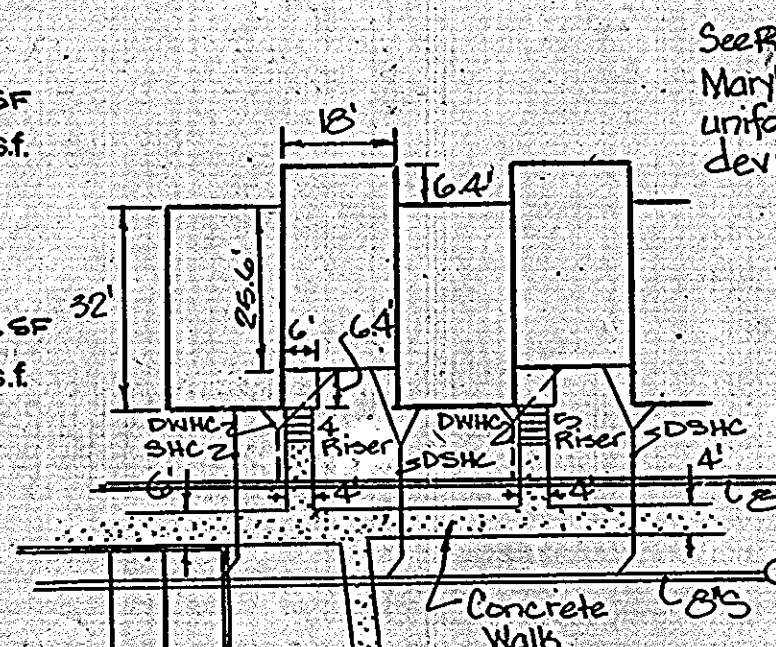
Parking requirements = 1.5 spaces / two bedroom unit, 1.5 X 156 = 234 spaces  
 Buildings 1 to 4 - 48 Units. Parking required - 72, Parking provided - 72.  
 Units 5 to 48 - 44 Units. Parking required - 66, Parking provided - 69.  
 Units 49 to 112 - 64 Units. Parking required - 96, Parking provided - 99.  
 Total Number of parking spaces required - 234.  
 Total Number of parking spaces provided - 240.  
 Total area of site --- 9.026 ac.  
 Percentage of Building --- 16% or 1.48 ac.  
 Percentage of Open Space Provided --- 54% or 4.916 ac.  
 Percentage of Paving --- 29% or 2.63 ac.

**BUILDING NOS. 1 TO 4**

Number of bedrooms per unit - 2.  
 Floor area of two bedrooms provided = 875sf  
 Floor area of two bedrooms required = 660 sf.  
 Number of units per building - 12.

**BUILDING NOS. 5 TO 112**

Number of bedrooms per unit - 2.  
 Floor area of two bedrooms provided = 1152sf  
 Floor area of two bedrooms required = 660sf.  
 Total number of units - 108.



TYPICAL HOUSE LAYOUT

**OWNER/DEVELOPER**

WILDER BUILDING CORPORATION  
 3430 BIRCH HOLLOW ROAD  
 BALTIMORE, MARYLAND 21208

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 11-5-86

HANDICAPPED PARKING SIGN DETAIL  
 PLAN SCALE: 1"=30'

Reviewed for Howard Soil Conservation District and meets technical requirements.  
 Approved: *Stephen L. Fahn* 12/1/87  
 Signature Date

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

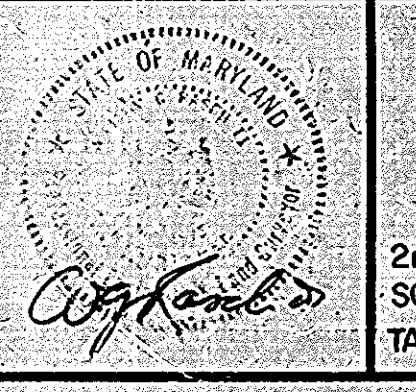
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
 Director *James M. ...* 9/24/87  
 Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer *Joseph M. ...* 8-5-87  
 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 Chief, Division of Land Development and Zoning *Shirley ...* 8-6-87  
 Date

DEVELOPER'S CERTIFICATION  
 I certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.  
*Joseph M. Wilder* 3/24/86  
 Signature Date

ENGINEER'S CERTIFICATION  
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on the personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
*William G. ...* 3/24/86  
 Signature Date



**WILDER SUBDIVISION**  
 SITE DEVELOPMENT PLAN  
 PARCELS A-2, A-3, A-4  
 A RESUBDIVISION OF A PORTION OF PARCEL A-1  
 HOENES PROPERTY  
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE 1" = 30' APRIL 1986  
 TAX MAP 17 F-86-160 PARCEL 848  
 SHEET 1 OF 10  
 DES. A.R.T.  
 DRWN.  
 CHK. A.R.T.  
 J.O. NO. 5394-40



VICINITY MAP  
 SCALE: 1"=1,000



SOIL BORING LOG - B-3

DEPTH IN FEET	SOIL DESCRIPTION
1 0.0	TOPSOIL
2 2.0	ORANGE BROWN MOIST LOOSE SILT W/MICA AND SOME CLAY
3	ORANGE BROWN MOIST LOOSE SILTY CLAY W/MICA
4 4.5	TAN BROWN BLACK MOIST LOOSE SILT W/MICA AND SOME SAND
5	
6	
7 7.0	
8	BLACK BROWN TAN MOIST MEDIUM DENSE SILT W/MICA
9	
10	
11	
12 15.0	Bottom of hole

\* SEE ADDRESS CHART ON SHEET 7 OF 10

ADDRESS CHART

PARCEL NO.	STREET ADDRESS

SUBDIVISION NAME: WILDER PROP.	SECT./AREA: 24	LOT/PARCEL NO. 848
PLAT/BLK/LF: 172/16	BLOCK: 24	TAX ZONE: 17
WATER CODE: F03	ELEC. DIST. 2	CENSUS TR. 60216
SEWER CODE: 1432000		

Revised 6/10/92  
 Revised 5/12/88  
 Waiver Reference VP-87-77  
 Revised 2/29/86

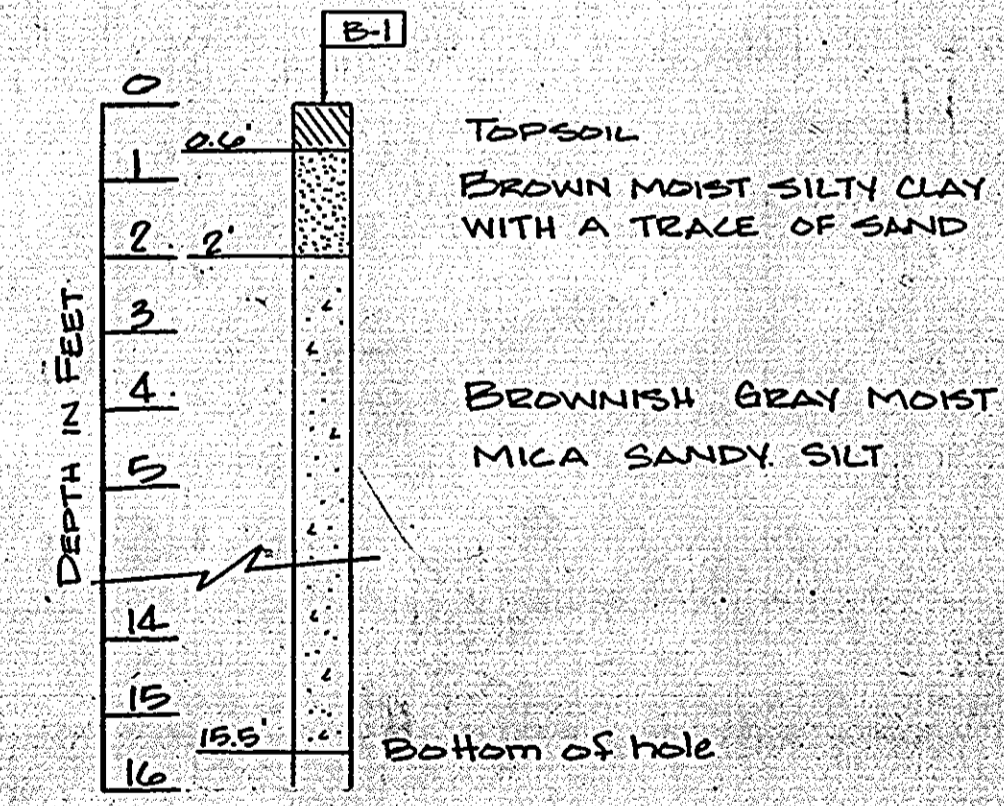
NOTE: All pipes inside infiltration trench shall be perforated.

SEWER HOUSE CONNECTION INVERTS

UNIT NO.	INVERT	UNIT NO.	INVERT
1	399.14	54,55	405.69
2	396.34	56,57	405.69
3	392.90	58	406.36
4	395.64	59	408.58
5	388.31	60,61	408.70
6,7	387.73	62,63	410.03
8,9	387.06	64,65	412.05
10	387.18	66	415.40
11	385.09	67	409.51
12,13	384.97	68,69	406.83
14	384.96	70,71	404.82
15	389.56	72,73	403.48
16,17	389.68	74	403.36
18,19	391.68	75	399.82
20,21	393.03	76,77	397.81
22	395.04	78	397.93
23	398.19	79	392.32
24,25	398.73	80,81	393.10
26,27	398.87	82,83	394.45
28	400.75	84	397.13
29	406.71	85	393.36
30	403.06	86,87	391.35
31	403.06	88,89	389.34
32,33	403.18	90,91	389.46
34,35	403.06	92,93	389.90
36,37	403.06	94,95	391.91
38,39	403.18	96	393.92
40,41	403.06	97	402.06
42	403.18	98,99	402.18
43	405.58	100,101	402.85
44,45	405.70	102,103	403.40
46,47	408.38	104,105	403.35
48,49	408.26	106,107	403.47
50	408.38	108,109	403.35
51	405.14	110,111	402.68
52,53	405.02	112	402.80

Invert given is 5' from unit or at Y connection if joint use.

Handicap Parking Spaces: In front of Units: 79, 90, 31, 32



SOIL BORING LOG - B-1  
NTS

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 11-5-86

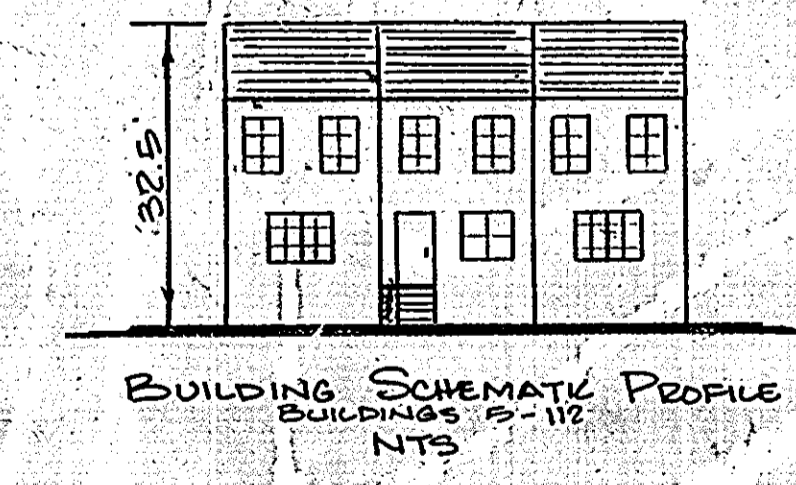
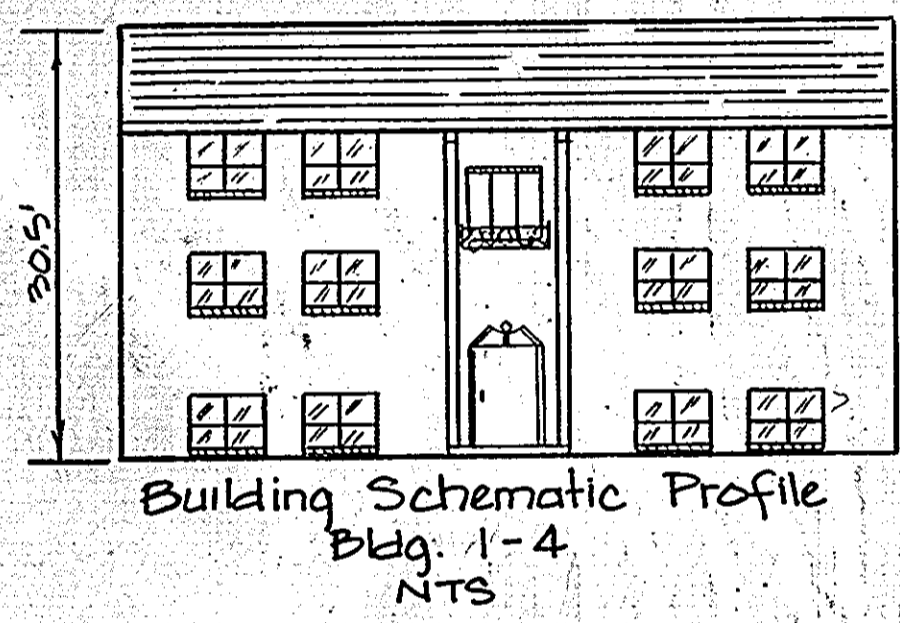
Revised 8/2/95  
Revised 6/10/92  
Revised 5/12/88  
Revised 5/29/80

Plan Scale: 1"=30'

Waiver Reference: VP-87-77

AS-BUILT CERTIFICATION  
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS  
CONSTRUCTED AS SHOWN ON THE AS-BUILT PLANS AND MEETS THE  
APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE \_\_\_\_\_ BE. NO. \_\_\_\_\_  
DATE \_\_\_\_\_



OWNER / DEVELOPER  
WILDER BUILDING CORPORATION  
3430 BIRCH HOLLOW ROAD  
BALTIMORE, MARYLAND 21208

Reviewed for Howard Soil Conservation District and meets technical requirements.  
Approved 7-30-87  
Signature \_\_\_\_\_ Date \_\_\_\_\_

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Approved 7/30/87  
Signature \_\_\_\_\_ Date \_\_\_\_\_

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS  
HOWARD COUNTY DEPT. OF PUBLIC WORKS  
Director \_\_\_\_\_ Date 8/16/87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
Director \_\_\_\_\_ Date 8/16/87

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
Director \_\_\_\_\_ Date 8/16/87

DEVELOPER'S CERTIFICATION  
I certify that all development and construction will be done according to this plan and that any responsible persons involved in the construction project will have been notified of attendance at the Department of Natural Resources approved training program for the control of soil erosion and sedimentation before beginning the project.  
Signature \_\_\_\_\_ Date 8/16/87

ENGINEER'S CERTIFICATION  
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 \_\_\_\_\_ Date 8/16/87



**WILDER SUBDIVISION**  
SITE DEVELOPMENT PLAN  
PARCELS A-2, A-3, A-4  
A RESUBDIVISION OF A PORTION OF PARCEL A-1  
HOENES PROPERTY  
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=30' APRIL, 1986  
TAX MAP 17 F-86-160 PARCEL 848 5394-40  
SHEET 2 OF 10  
DES. A.R.T.  
DRWN  
CHK. A.R.T.

SDP-86-214



**STORM OUTLET SEDIMENT TRAP NO.1**  
 DRAINAGE AREA = 1.82 AC.  
 VOLUME REQUIRED =  $1.82 \times 1850 = 3276$  C.F.  
 VOLUME PROVIDED =  $25' \times 55' \times 2.5' = 3437.50$  C.F.  
 BOTTOM ELEV. = 384.50  
 STORAGE LIMIT ELEV. = 387.00  
 STONE OUTLET CREST ELEV. = 388.00  
 EARTH DIKE ELEV. = 389.00  
 LENGTH OF STONE OUTLET =  $4 \times 1.82 = 8'$   
 CLEANOUT ELEV. = 385.75

- CONSTRUCTION SEQUENCE**
1. OBTAIN GRADING PERMIT - 15 DAYS.
  2. CLEANING AND GRUBBING FOR THE INSTALLATION OF PERIMETER CONTROL - 10 DAYS.
  3. INSTALL SEDIMENT CONTROL DEVICES - 15 DAYS.
  4. CLEANING AND GRUBBING OF SITE - 10 DAYS.
  5. CONSTRUCT TEMPORARY STORMWATER MANAGEMENT FACILITY AND CONSTRUCT STORM DRAIN FROM I-6 (M-1 TO M-2) TO EXISTING MANHOLE - 20 DAYS.
  6. START GRADING OF SITE TO SUBGRADE - 30 DAYS.
  7. INSTALL STORM DRAIN AND UTILITIES, EXCEPT I-9 TO I-8 AND PROVIDE INLET PROTECTION - 20 DAYS.
  8. CONSTRUCT CURB AND GUTTER - 20 DAYS.
  9. CONSTRUCTION OF DWELLING UNITS - 1 YEAR.
  10. START PAVING OF PARKING AREA AND STABILIZE AREAS IN FINAL GRADE - 3 MONTHS. CONSTRUCT I-7 TO I-8.
  11. START CONSTRUCTION OF INFILTRATION DEVICES - 20 DAYS.
  12. FINAL GRADING AND STABILIZATION OF DISTURBED AREAS NOT TO PAVED AND REMOVE TEMPORARY STORMWATER MANAGEMENT FACILITY - 3 MONTHS.
  13. REMOVE SEDIMENT CONTROL DEVICES AS PER APPROVAL OF THE SEDIMENT CONTROL INSPECTOR - 10 DAYS.

- INFILTRATION TRENCH CONSTRUCTION SEQUENCE**
1. EXCAVATE TRENCH TO THE REQUIRED DIMENSIONS.
  2. AFTER EXCAVATING TO THE REQUIRED DIMENSIONS, PROVIDE SILT FENCE AROUND THE TRENCH EXCEPT AT THE RAMP ENTRANCE.
  3. START FILLING TRENCH WITH STONE.
  4. AFTER A DAY OF WORK, THE ENTRANCE RAMP SHALL BE CLOSED WITH EARTH BERM AND SILT FENCE TO PREVENT SEDIMENT LADEN RUNOFF ENTERING TRENCH.
  5. WHEN FACILITY IS COMPLETE, REMOVE SILT FENCE, STABILIZE AREAS, AND PAVE.

Note: Sediment Traps 1 & 2 are located on Wilder Property.

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 11-5-86

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *Stephen L. John* 7/30/87  
 Signature Date

Approved: *James M. Hahn* 7-30-87  
 U.S. Soil Conservation District Date

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

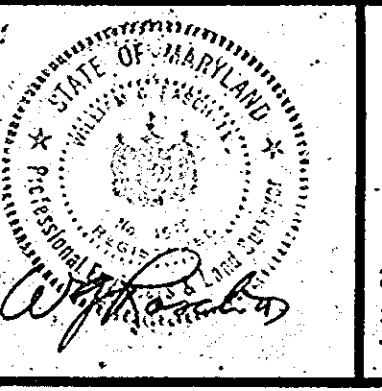
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*James M. Hahn* 8-8-87  
 PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGES, AND ROADS  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
*James M. Hahn* 8-8-87  
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Hahn* 8-8-87  
 COUNTY HEALTH OFFICER DATE

**DEVELOPER'S CERTIFICATION**  
 I certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.  
*James M. Hahn* 8/8/87  
 Signature Date

**ENGINEER'S CERTIFICATION**  
 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.  
*William G. Kasep* 8/24/86  
 Signature Date

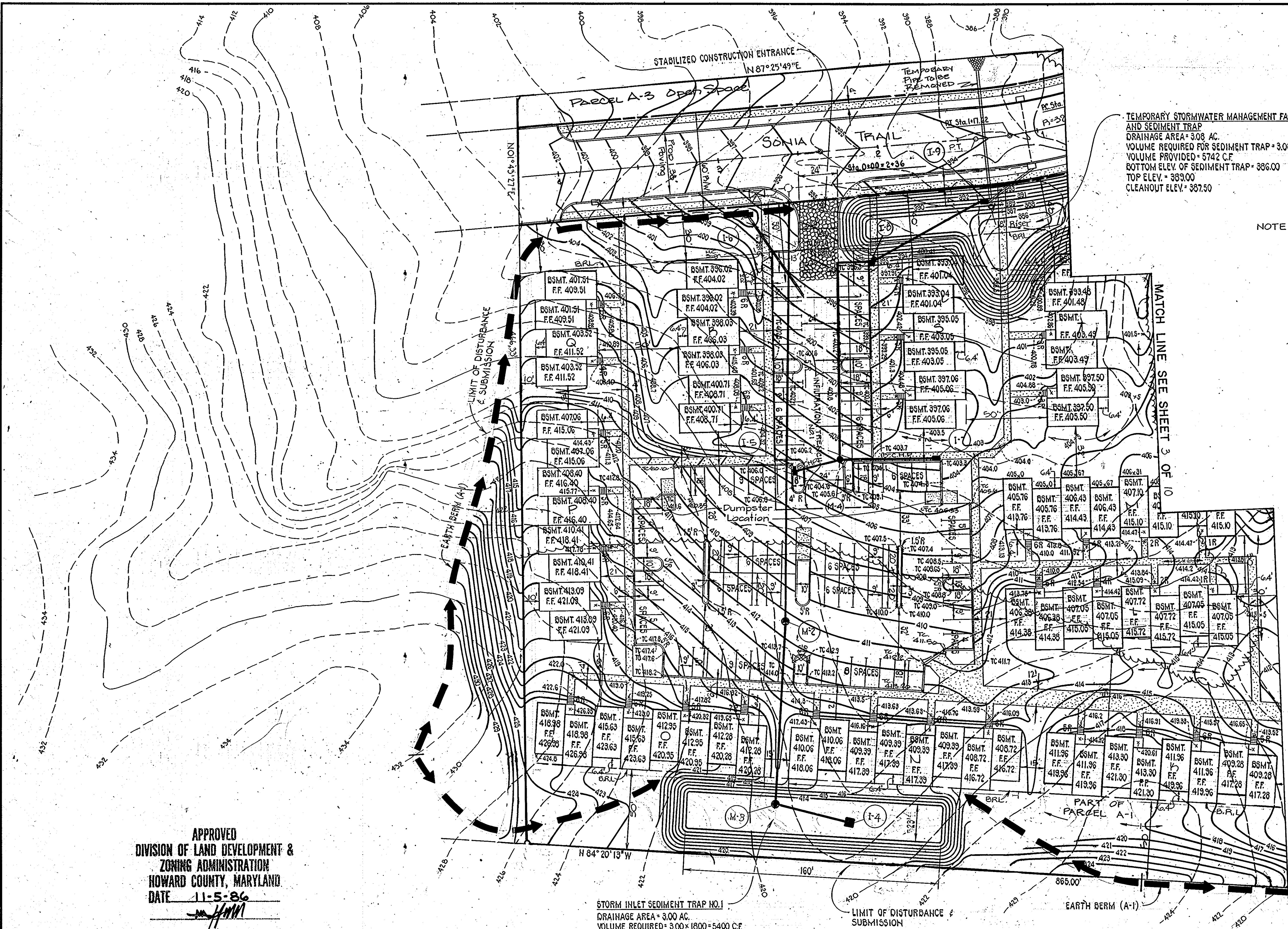


**WILDER SUBDIVISION**  
 SITE DEVELOPMENT PLAN  
 PARCELS A-2, A-3, A-4  
 A RESUBDIVISION OF A PORTION OF PARCEL A-1  
 HOENES PROPERTY  
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' APRIL, 1986  
 TAX MAP 17 F-86-160 PARCEL 848

SHEET 3 OF 10  
 DES. A.R.T.  
 DRWN. A.R.W.  
 CHK. A.R.T.  
 J.O. NO. 5394-40

Waiver Reference VP-87-77

Revised 5/29/86



TEMPORARY STORMWATER MANAGEMENT FACILITY AND SEDIMENT TRAP  
 DRAINAGE AREA = 3.08 AC.  
 VOLUME REQUIRED FOR SEDIMENT TRAP = 3.08 x 1800 = 5544 CF  
 VOLUME PROVIDED = 5742 CF  
 BOTTOM ELEV. OF SEDIMENT TRAP = 386.00  
 TOP ELEV. = 389.00  
 CLEANOUT ELEV. = 387.50

NOTE: The temporary storm water management facility shall be seeded and mulched after construction. See sheet 9 of 10 for temporary seeding notes.

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 11-5-86  
*[Signature]*

STORM INLET SEDIMENT TRAP NO. 1  
 DRAINAGE AREA = 3.00 AC.  
 VOLUME REQUIRED = 3.00 x 1800 = 5400 CF  
 VOLUME PROVIDED = 160' x 23' x 1.5' = 5520 CF  
 BOTTOM ELEV. = 414.00  
 STORAGE UNIT ELEV. = 415.50  
 CLEANOUT ELEV. = 414.75

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 Approved: *[Signature]* 7-30-87  
 Reviewed for Howard Soil Conservation District and meets technical requirements.  
 Approved: *[Signature]* 7-30-87  
 U.S. Soil Conservation District Date

Waiver Reference VP-87-77  
 Revised 6/10/92  
 Revised 5/20/86

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

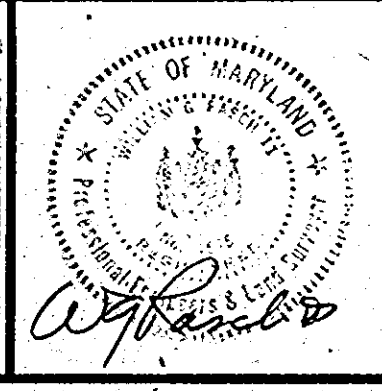
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*[Signature]* 8-6-87  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 APPROVED: *[Signature]* 8-6-87  
 PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
*[Signature]* 8/11/87  
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 8-5-87  
 COUNTY HEALTH OFFICER DATE

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*[Signature]* 8/11/87  
 DATE

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*[Signature]* 8/11/87  
 WILLIAM G. KASPER, P.E. No. 4375 DATE



**WILDER SUBDIVISION**  
 SEDIMENT & EROSION CONTROL PLAN  
 PARCELS A-2, A-3, A-4  
 A RESUBDIVISION OF A PORTION OF PARCEL A-1  
 HOENES PROPERTY  
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30'  
 TAX MAP 17 F-86-160 APRIL, 1986  
 PARCEL 848

SHEET 4. OF 10  
 DES. A.R.T.  
 DRWN. A.R.W.  
 CHK. A.R.T.  
 J.O. NO. 5394-40



SEE SHEET 9 OF 10 FOR PLANT LIST, SYMBOLS & TREE PLANTING DETAIL

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 11-5-86  
*[Signature]*

SEE F 86-166 for street tree planting details and schedule (typ.)

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: *[Signature]* 8/6/87  
 Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

*[Signature]* 7-30-87  
 U.S. Soil Conservation District Date

WILDER BUILDING CORP.  
 643/532  
 ZONED R.A.15

Open space for contract agreement with the Leonard Hoenes property owner to the south.

Waiver Reference VP-87-77

Revised 5/20/86

**PURDUM & JESCHKE**  
**CONSULTING ENGINEERS**  
**LAND SURVEYORS**  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

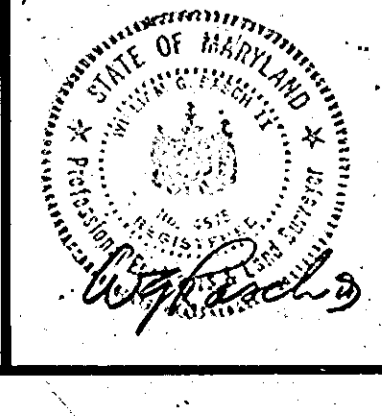
APPROVED: For public water, public sewerage, storm drainage and roads.  
 Howard County Health Department  
*[Signature]* 8/6/87  
 Director Date  
*[Signature]* 8-3-87  
 Chief, Bureau of Engineering Date

APPROVED: For public water and public sewerage systems.  
 Howard County Health Department  
*[Signature]* 8-5-87  
 County Health Officer Date

APPROVED: Howard County Office of Planning and Zoning.  
*[Signature]* 8/6/87  
 Chief, Division of Land Development and Zoning Administration Date  
*[Signature]* 8-6-87  
 Planning Director Date

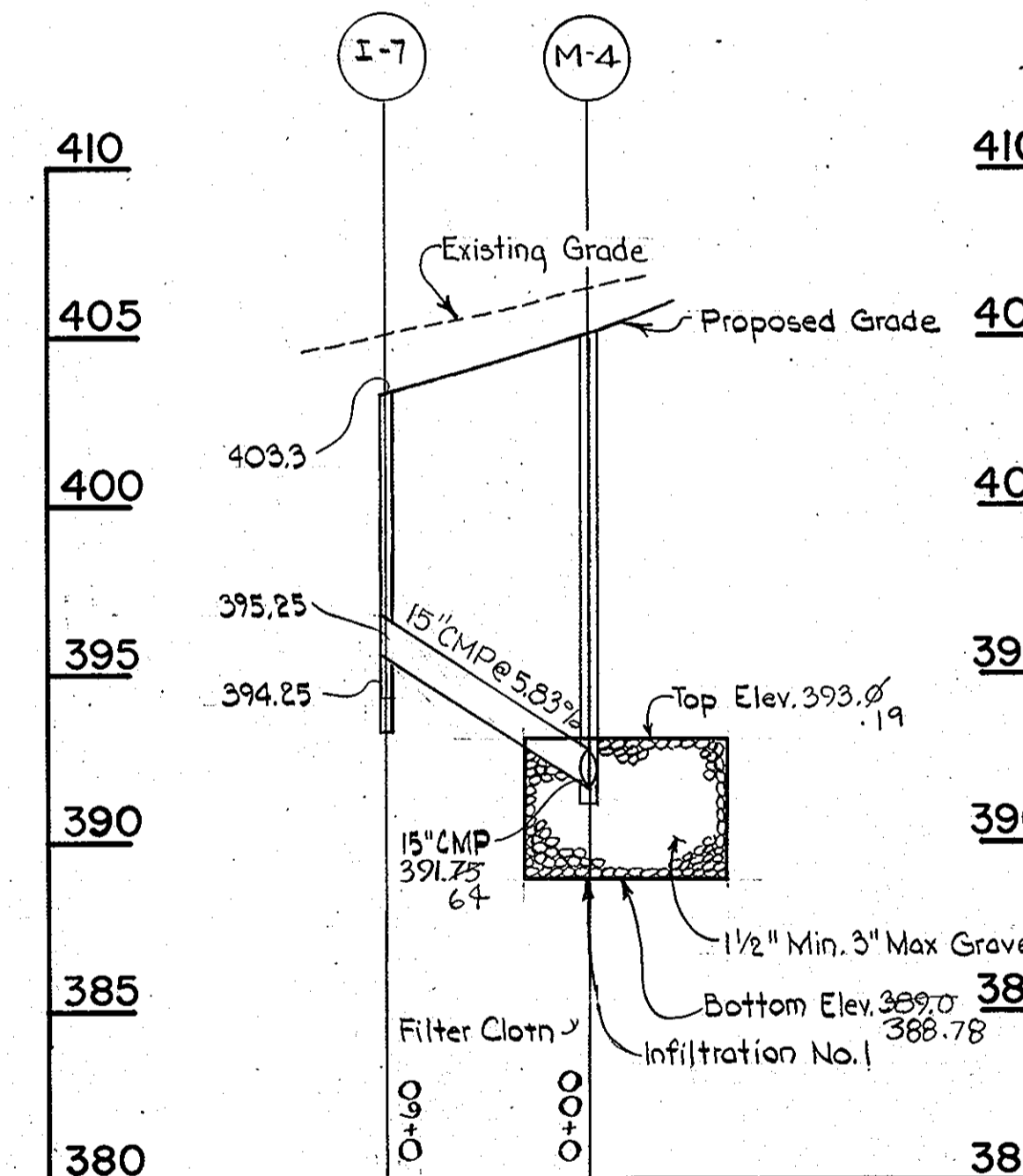
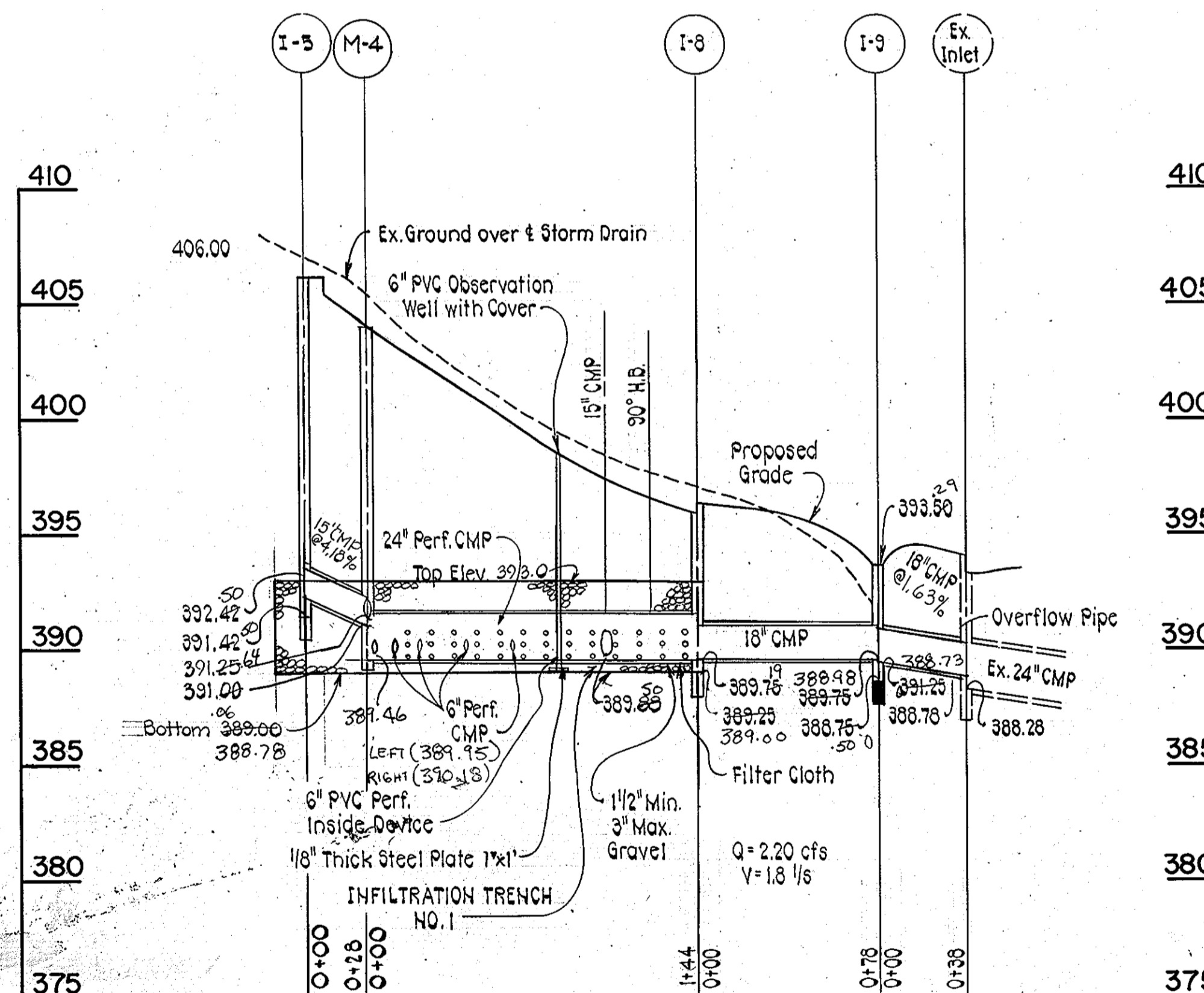
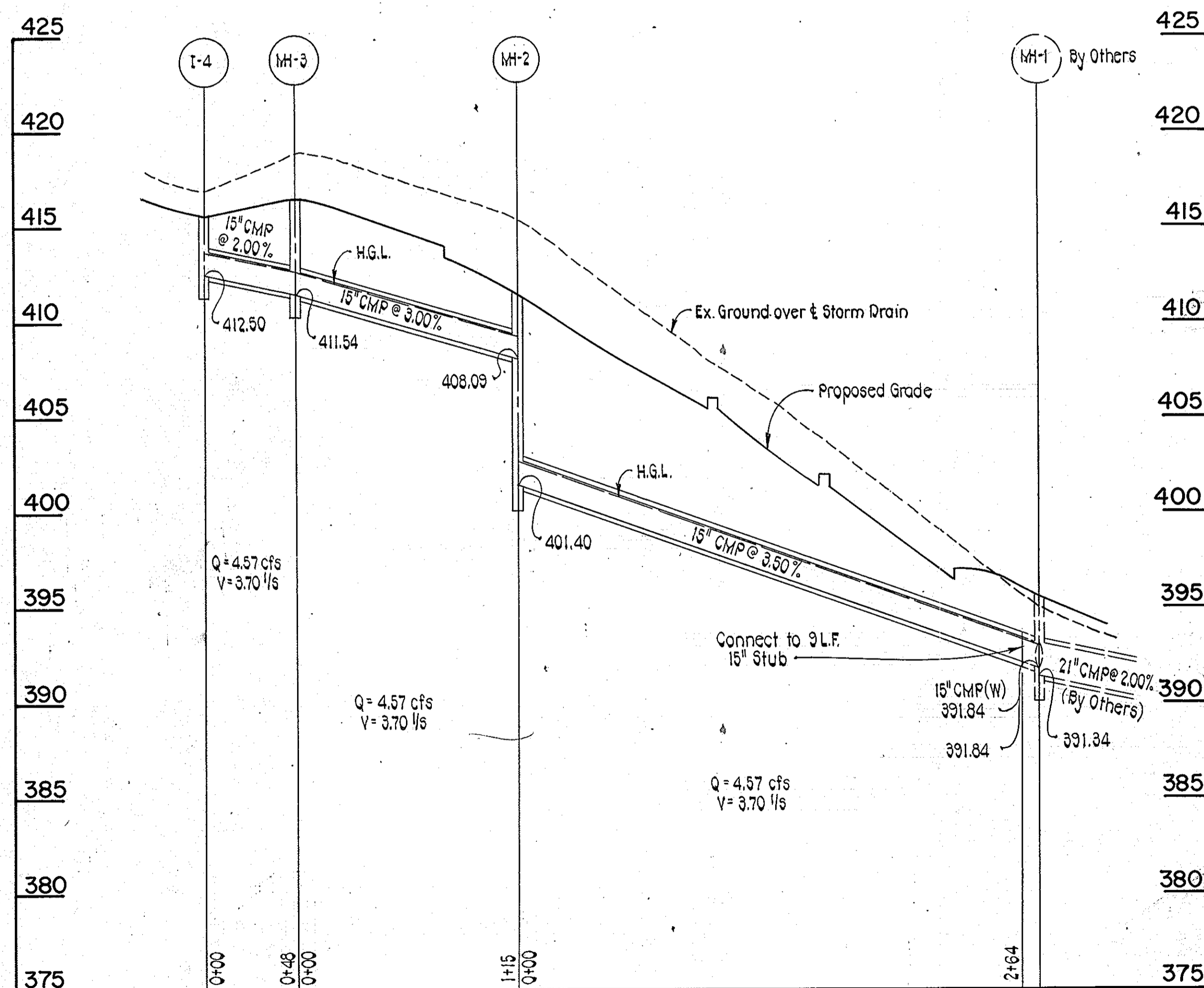
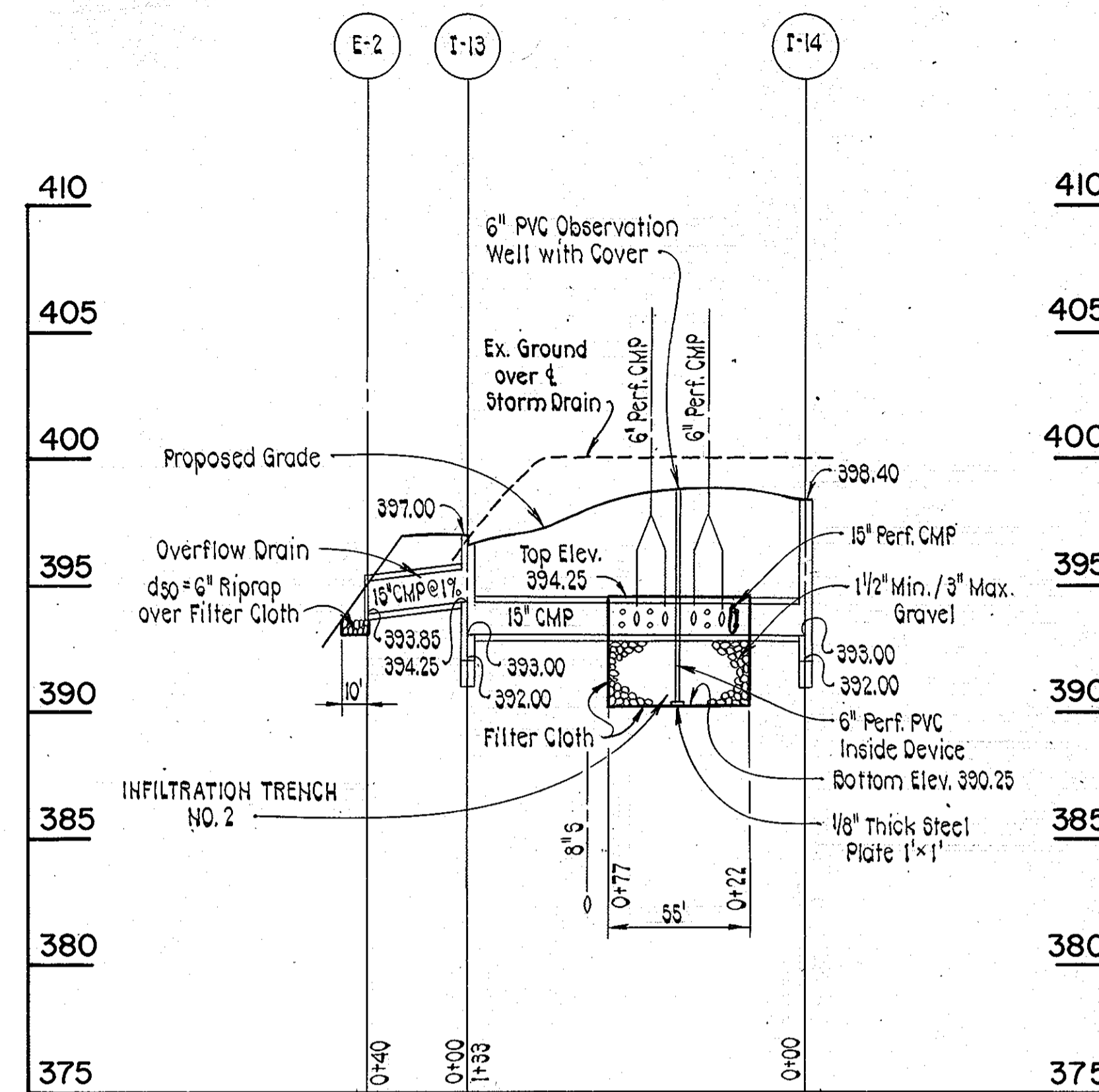
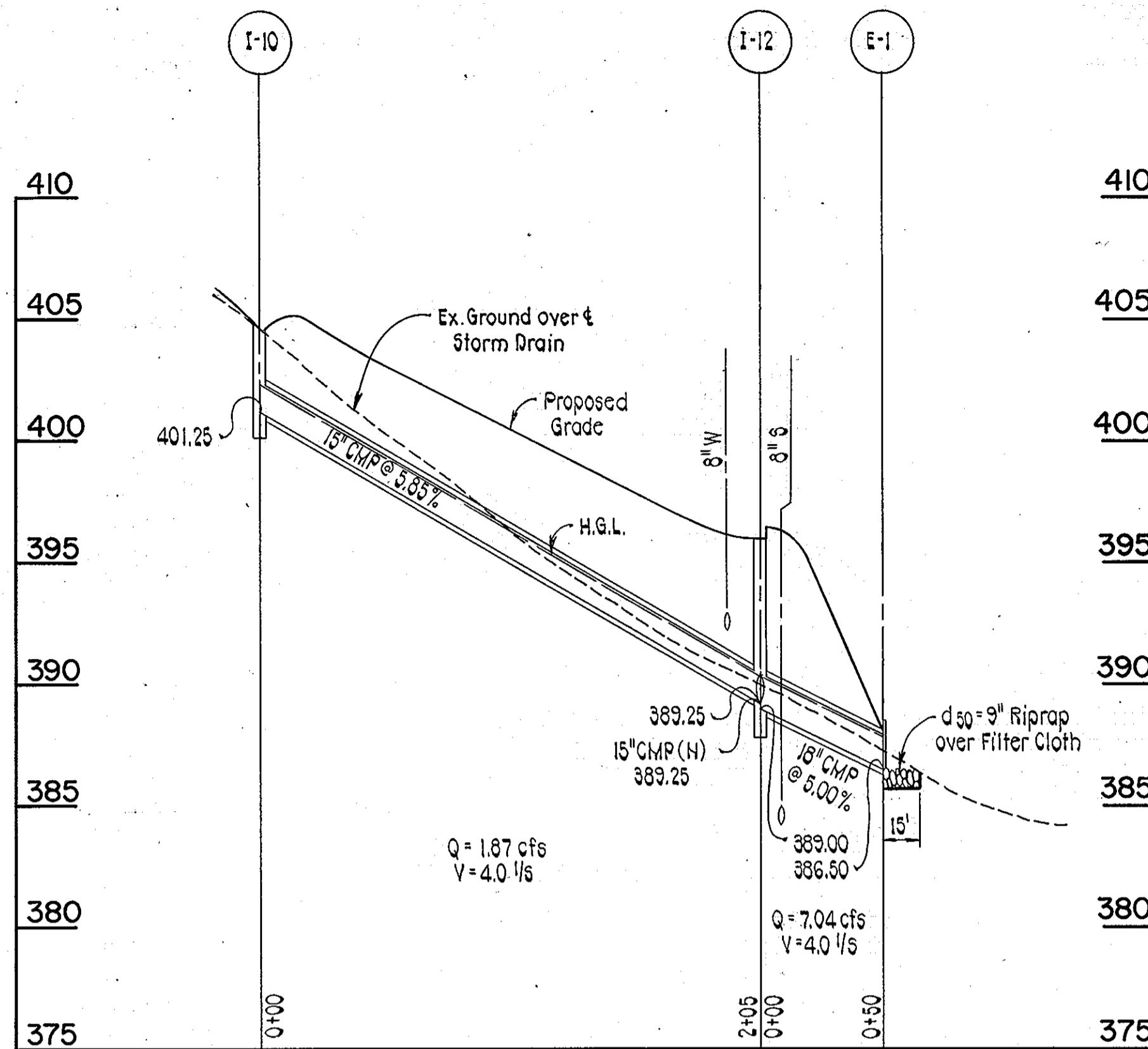
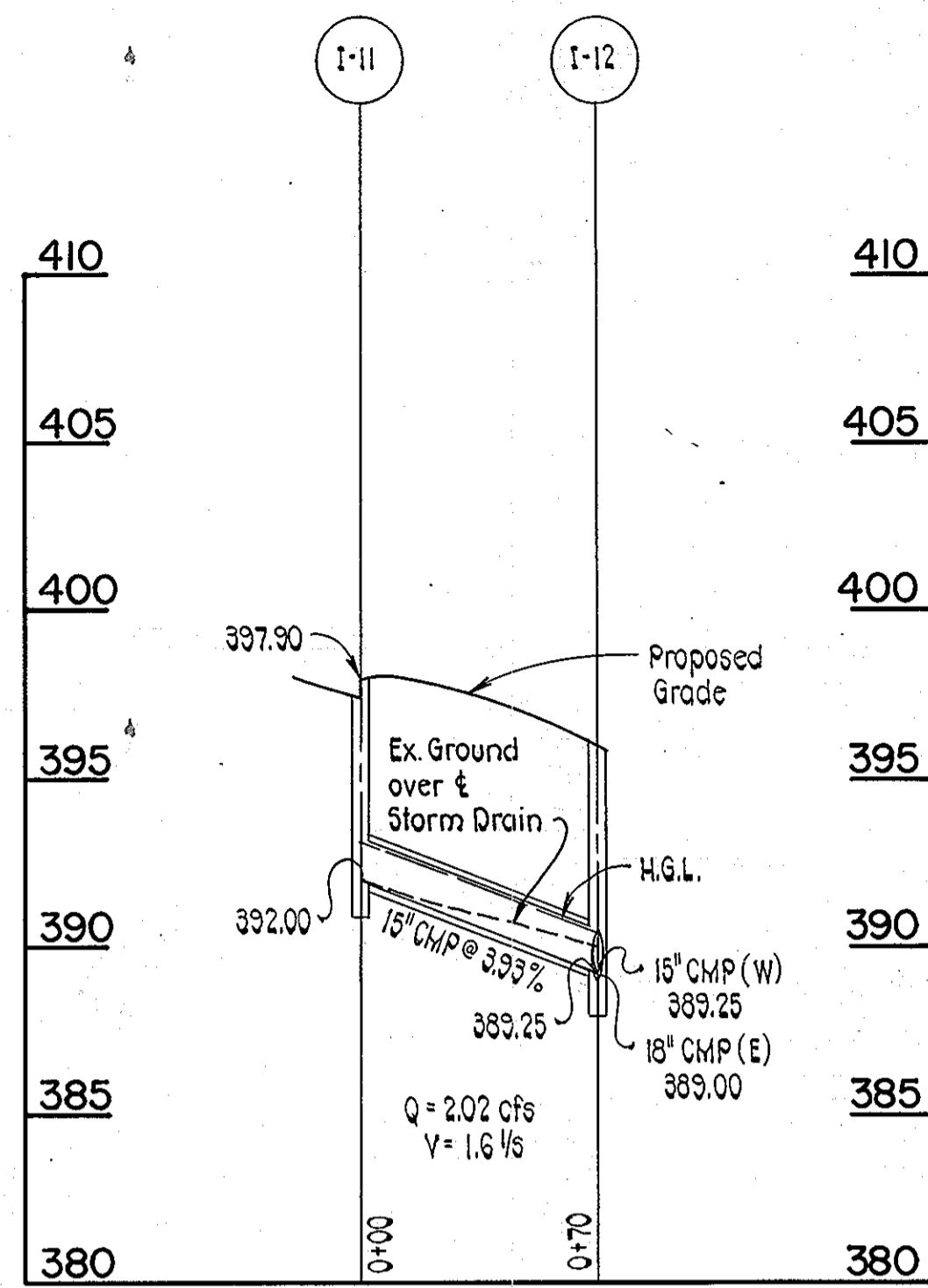
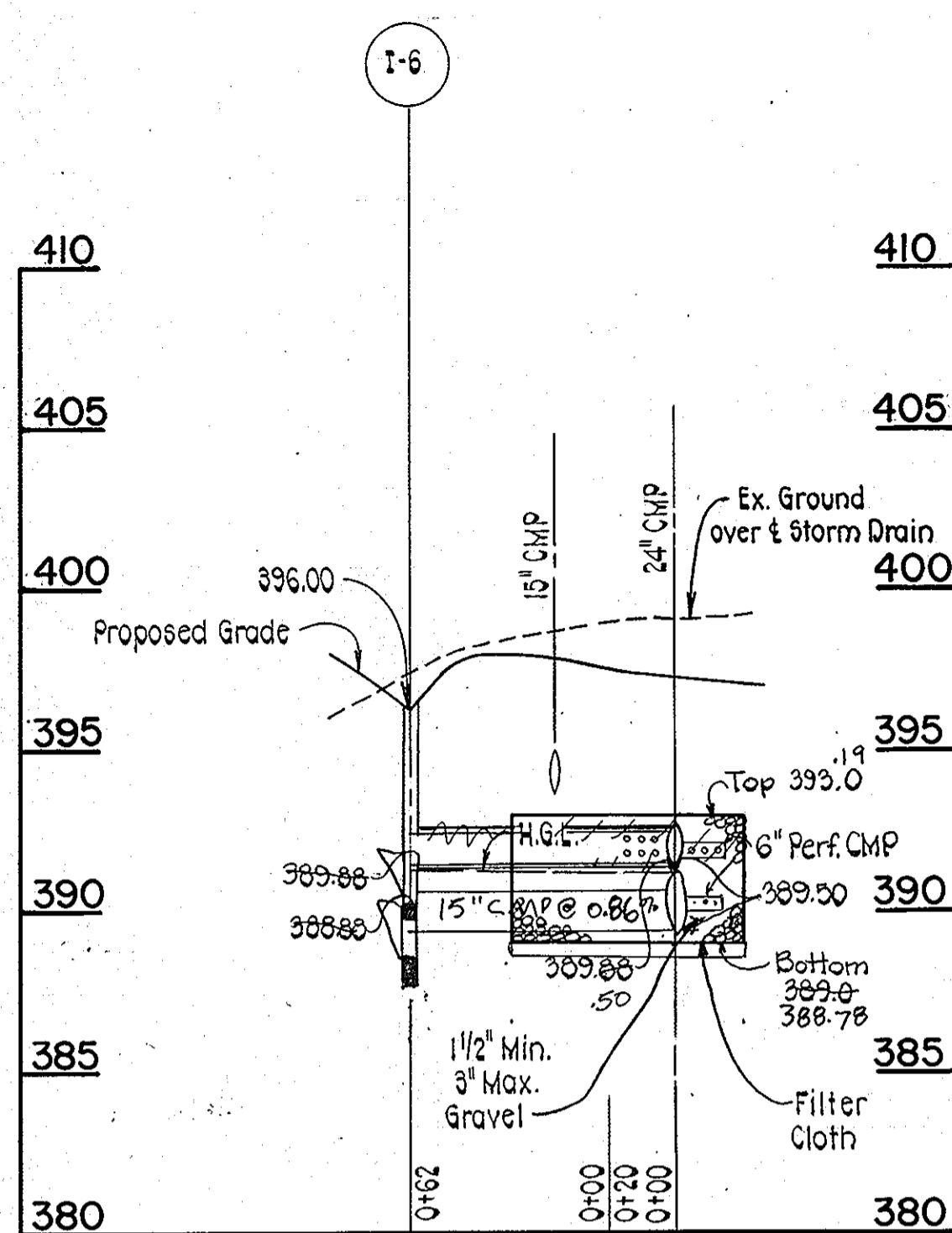
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*[Signature]* 8/6/86  
 Signature Date

**ENGINEER'S CERTIFICATION**  
 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]* 8/24/86  
 William G. Rgsch II No. 4575 Date



**WILDER SUBDIVISION**  
**LANDSCAPING & GRADING PLAN**  
 PARCELS A-2, A-3, A-4  
 A RESUBDIVISION OF A PORTION OF PARCEL A-1  
 HOENES PROPERTY  
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 TAX MAP NO. 17 PARCEL NO. 848  
 ZONED RA15 SCALE: 1" = 30'  
 F-86-160 APRIL 1986

SHEET 5 OF 10  
 DES: ATR  
 DRAWN: ARW  
 CHK: ATR  
 J.O. NO. 5394-40



AS BUILT CERTIFICATION  
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE AS BUILT PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.



SIGNATURE \_\_\_\_\_ P.E. NO. \_\_\_\_\_  
 DATE \_\_\_\_\_

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 11-5-86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*James M. Beck* 7-30-87  
 U.S. SOIL CONSERVATION DISTRICT DATE

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

*Stephen D. Miller* 7/20/87  
 HOWARD SOIL CONSERVATION DISTRICT DATE

Revised 8/2/95  
 Revised 6/10/92  
 Revised 5/29/86

Waiver Reference VP-87-77

**PURDUM & JESCHKE**  
**CONSULTING ENGINEERS**  
**LAND SURVEYORS**  
 1029 North Calver Street  
 Baltimore, Maryland 21202 301/837-0194

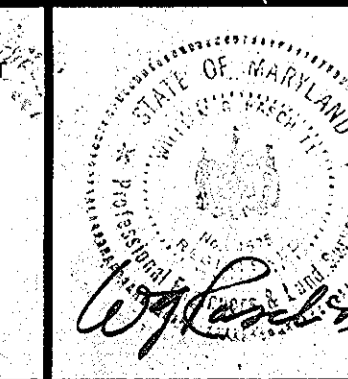
APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE AND ROAD  
 HOWARD CO. DEPT. OF PUBLIC WORKS  
*James M. Beck*  
 DIRECTOR DATE 8-3-87  
 CHIEF, BUREAU OF ENGINEERING DATE 8-3-87

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Beck M.D.*  
 COUNTY HEALTH OFFICER DATE 8-5-87

APPROVED  
 HOWARD CO. OFFICE OF PLANNING & ZONING  
*William G. Resch II*  
 CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE 8-6-87  
 PLANNING-DIRECTOR DATE 8-6-87

DEVELOPER'S CERTIFICATION  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.  
*Joseph Wilder* 2/25/86  
 DATE 2/25/86

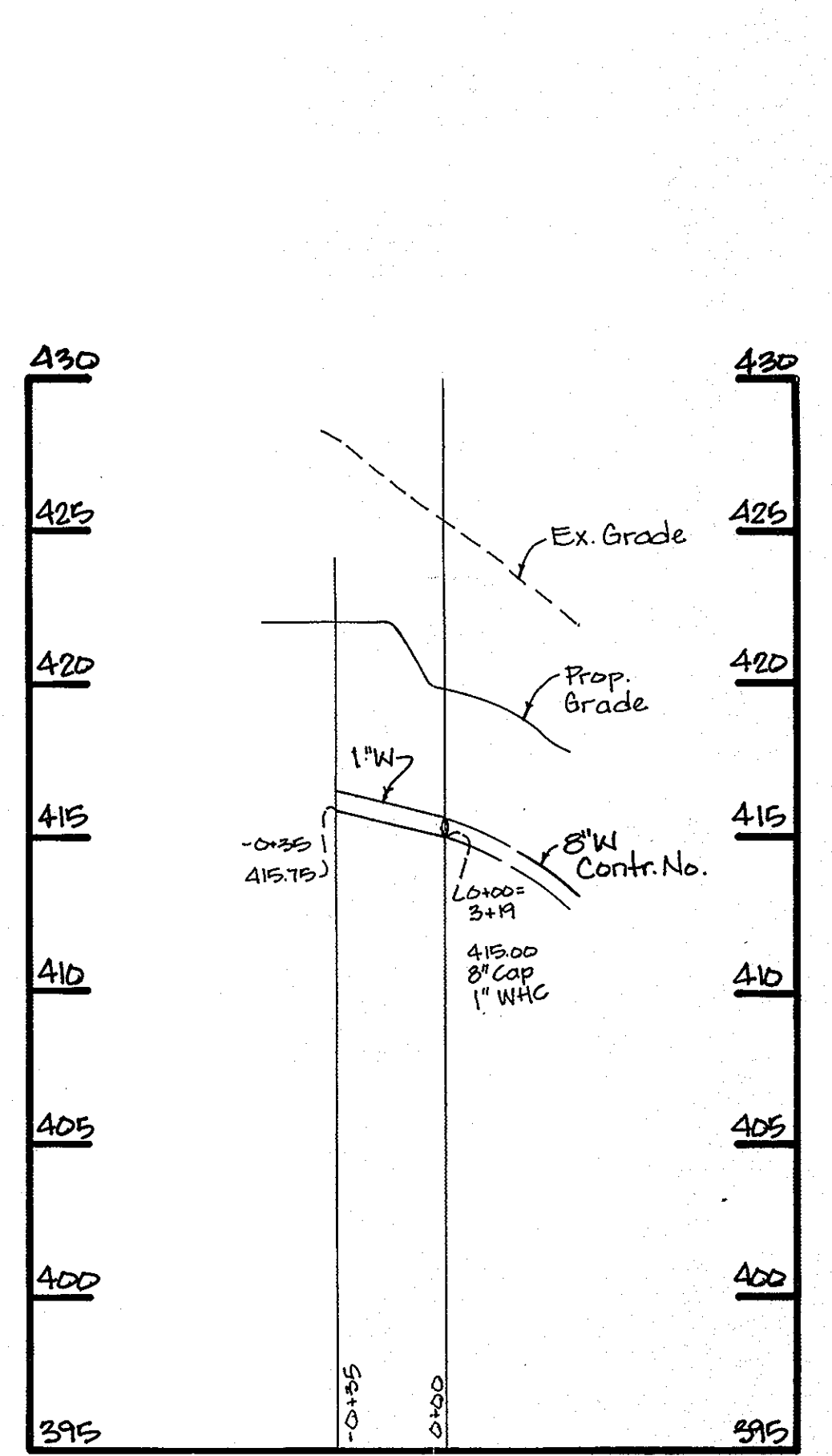
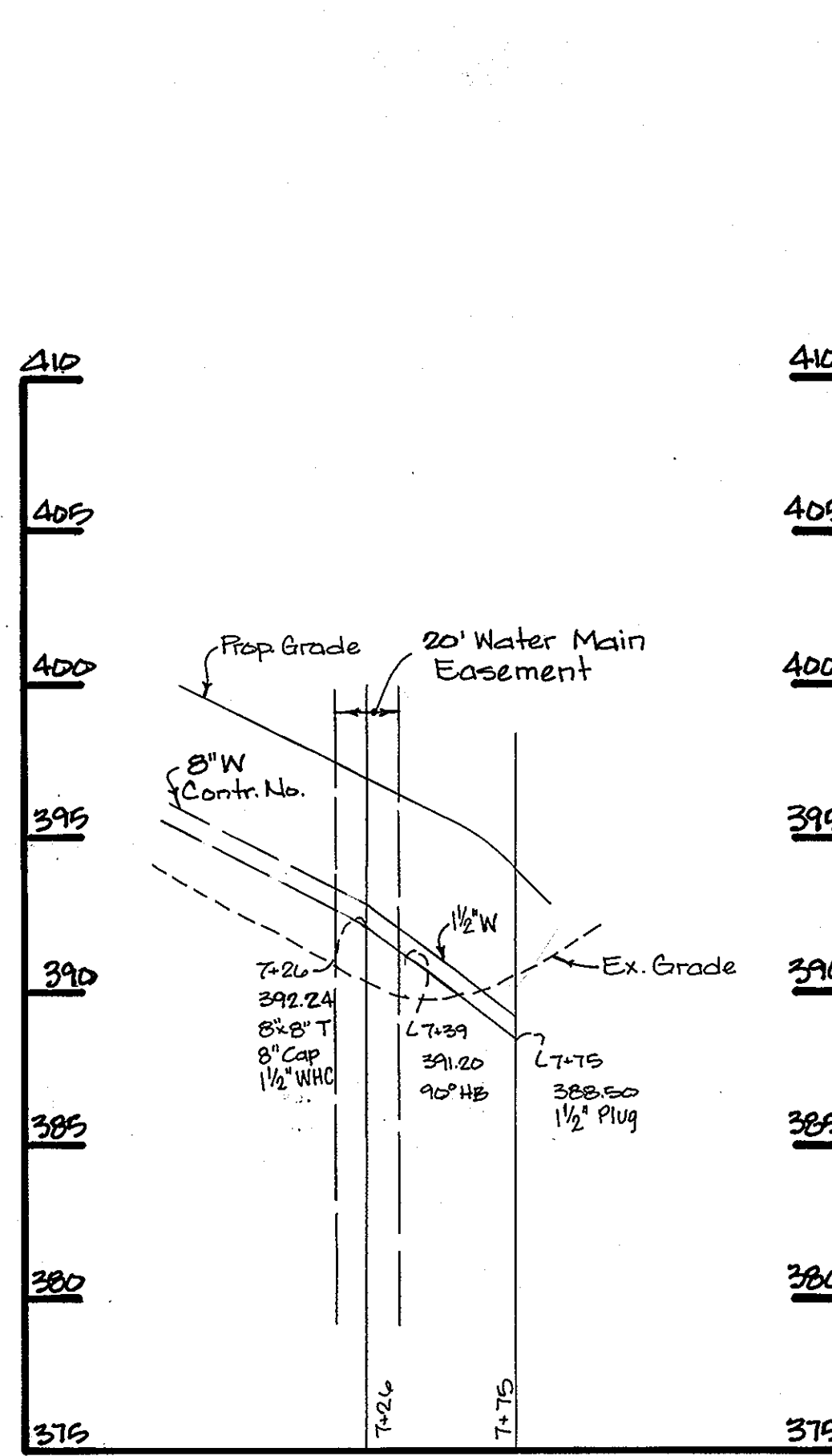
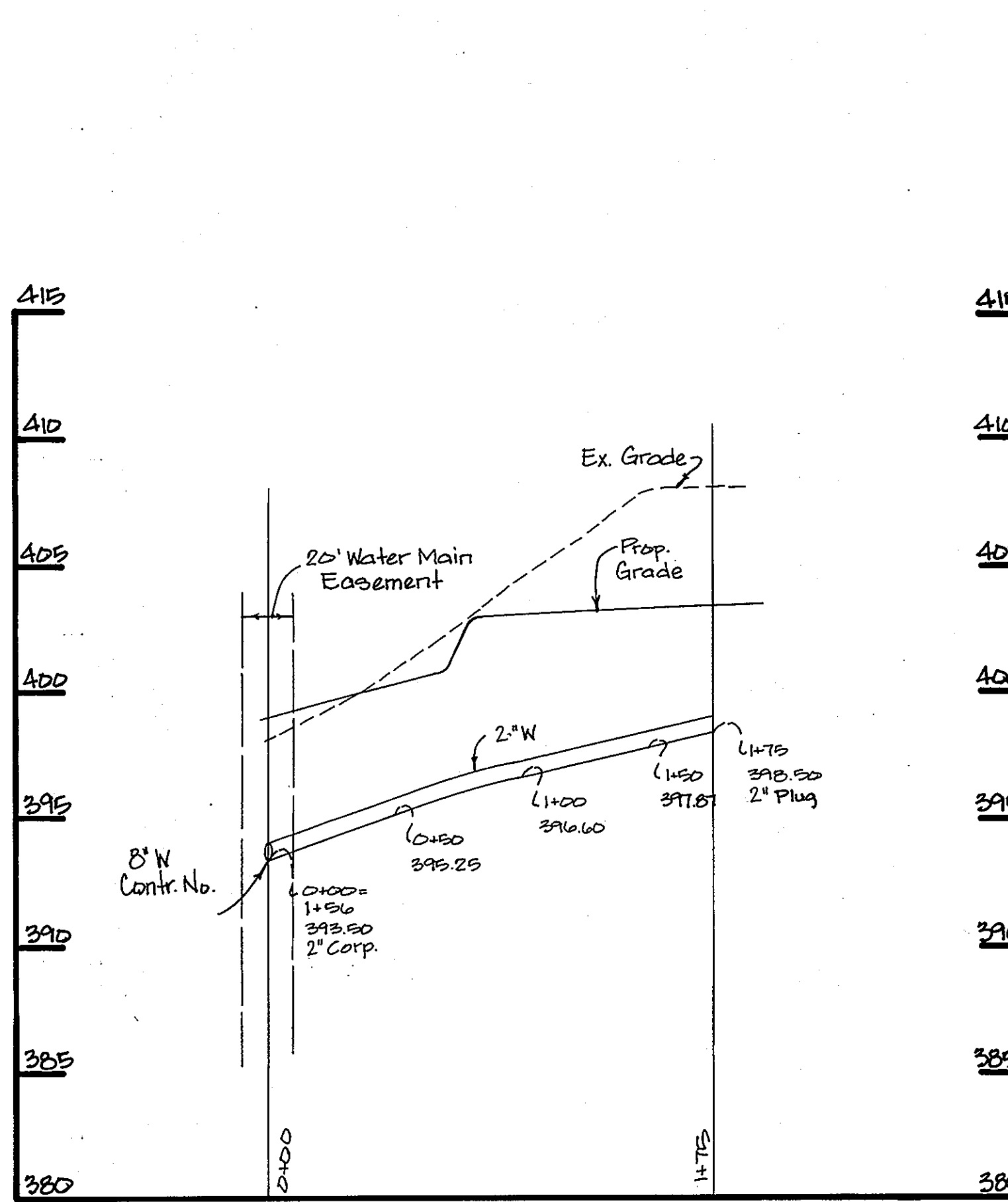
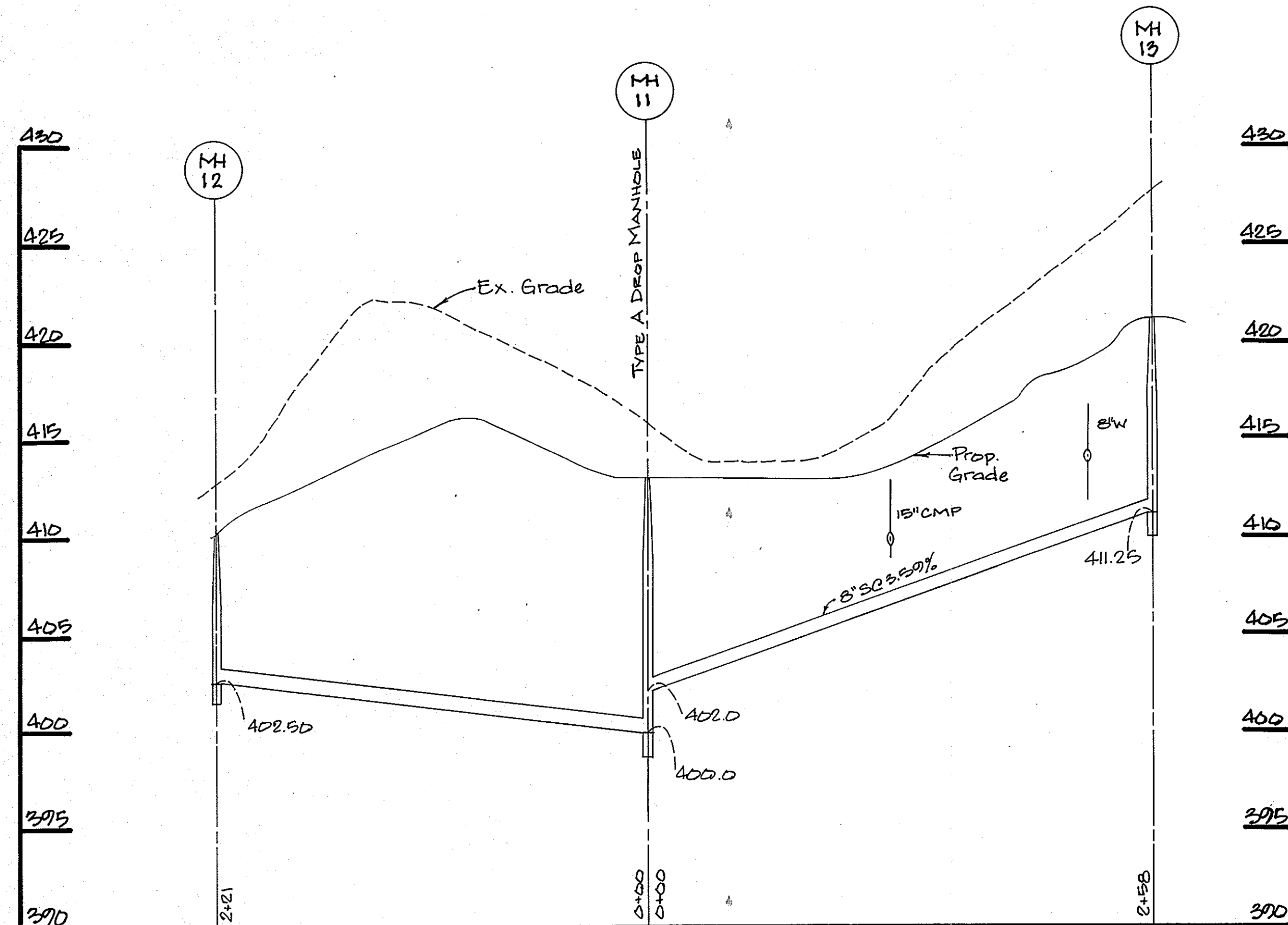
ENGINEER'S CERTIFICATION  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*William G. Resch II* 2/24/86  
 DATE 2/24/86



**WILDER SUBDIVISION**  
**STORM DRAIN & INFILTRATION TRENCH PROFILES**  
 PARCELS A-2, A-3, A-4  
 A RESUBDIVISION OF A PORTION OF PARCEL A-1  
 HOENES PROPERTY  
 2nd ELECTION DISTRICT HOWARD COUNTY, MD.  
 SCALE: 1"=50' HORIZ. 1"=5' VERT. APRIL, 1986  
 TAX MAP I7 F-86-160 PARCEL 848

SHEET 6 OF 10  
 DES. BY: ATR  
 DRWN. BY: ARW  
 CHK'D BY: ATR  
 JO. NO. 5394-30

SDP-86-214

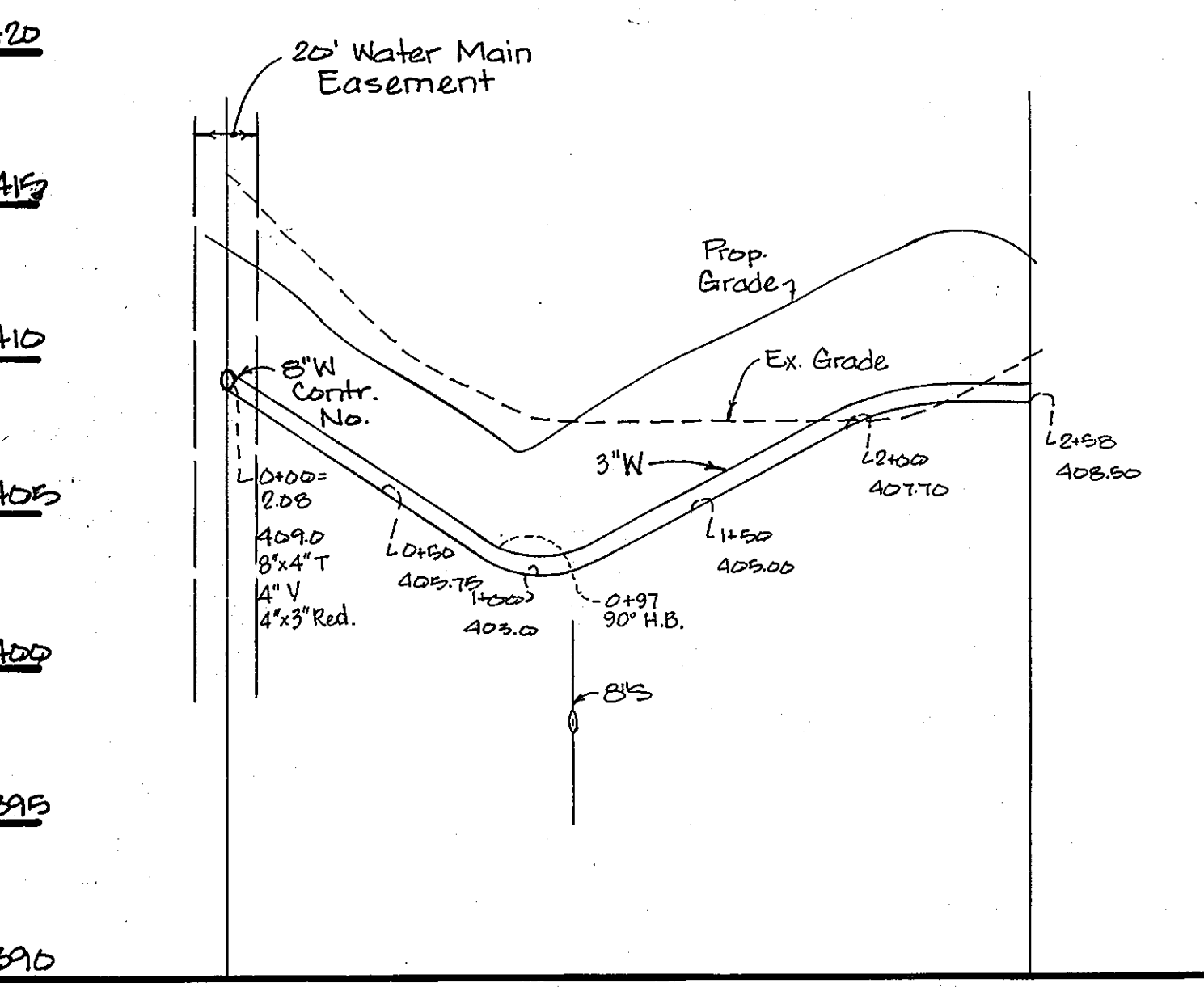
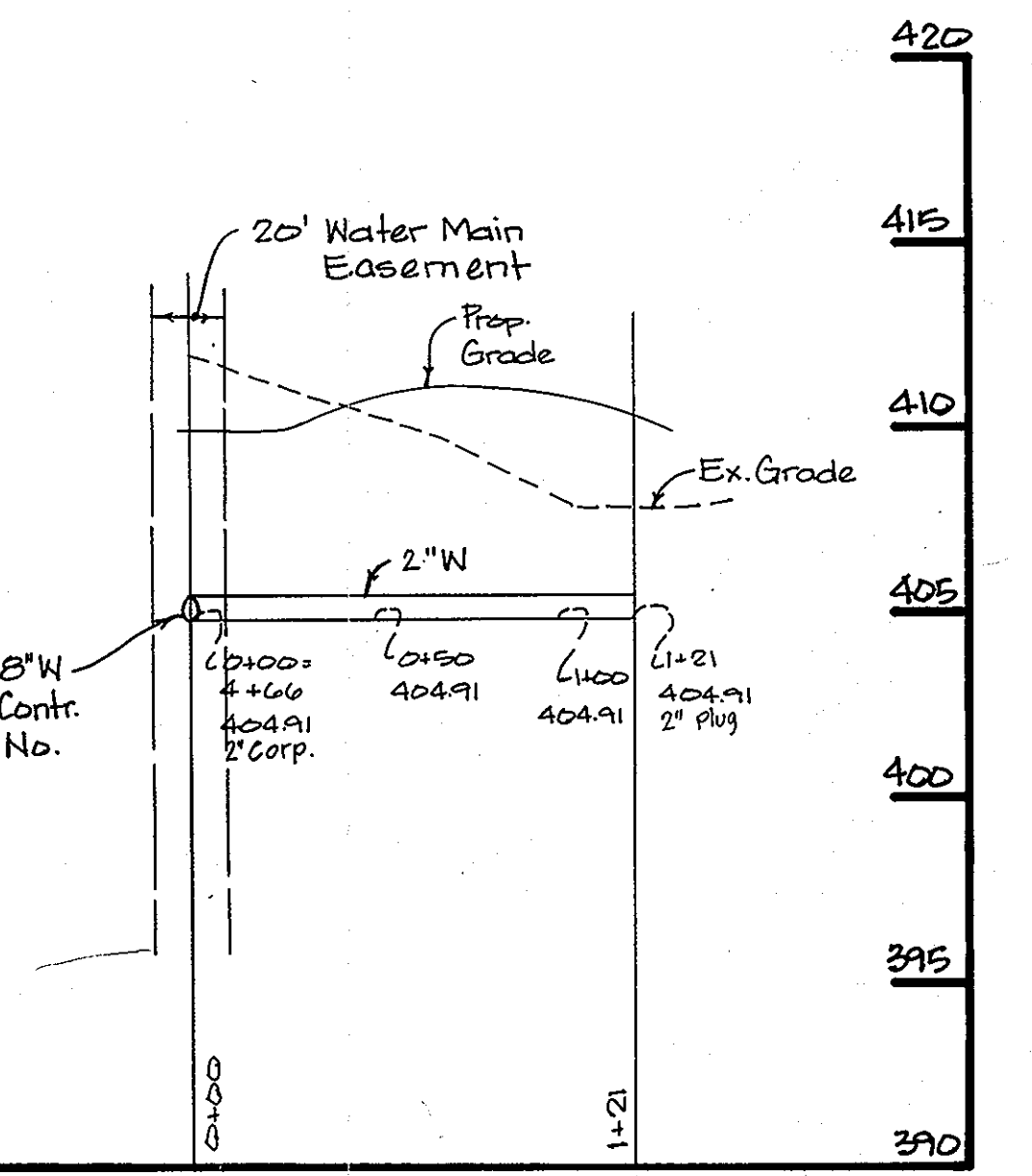
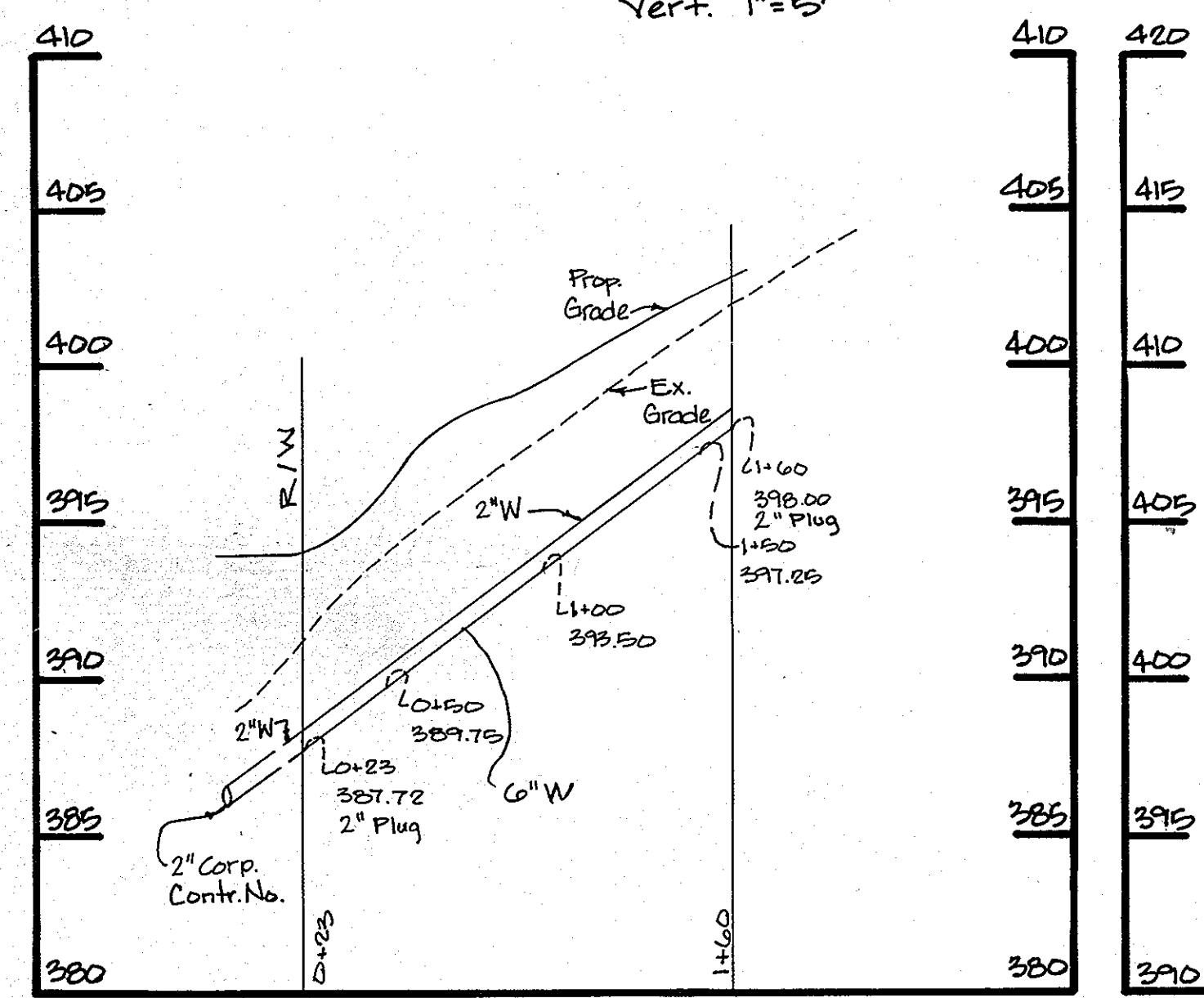


SCALE: Horz. 1"=50'  
Vert. 1"=5'

PROFILE No. 4

PROFILE No. 6

PROFILE No. 1



PROFILE No. 3

PROFILE No. 5

PROFILE No. 2

ADDRESS CHART					
Bldg.#	STREET ADDRESS	Bldg.#	STREET ADDRESS	Bldg.#	STREET ADDRESS
1	3203 WEST SPRING DRIVE	30	3220 WEST SPRING DRIVE	77	3241 SOLIA TRAIL
2	3201 "	40	3222 "	78	3243 "
3	3207 "	41	3224 "	79	3247 "
4	3209 "	42	3224 "	80	3249 "
5	3226 "	43	3165 SOLIA TRAIL	81	3251 "
6	3224 "	44	3167 "	82	3253 "
7	3202 "	45	3169 "	83	3255 "
8	3220 "	46	3171 "	84	3257 "
9	3215 "	47	3173 "	85	3111 "
10	3216 "	48	3175 "	86	3109 "
11	3212 "	49	3177 "	87	3107 "
12	3210 "	50	3179 "	88	3105 "
13	3208 "	51	3183 "	89	3103 "
14	3206 "	52	3185 "	90	3101 "
15	3202 "	53	3187 "	91	3115 "
16	3200 "	54	3189 "	92	3117 "
17	3228 "	55	3191 "	93	3119 "
18	3226 "	56	3193 "	94	3121 "
19	3224 "	57	3195 "	95	3123 "
20	3222 "	58	3197 "	96	3125 "
21	3220 "	59	3201 "	97	3129 "
22	3248 "	60	3203 "	98	3131 "
23	3244 "	61	3205 "	99	3133 "
24	3242 "	62	3207 "	100	3135 "
25	3240 "	63	3209 "	101	3137 "
26	3238 "	64	3211 "	102	3139 "
27	3236 "	65	3213 "	103	3141 "
28	3234 "	66	3215 "	104	3143 "
29	3232 "	67	3217 "	105	3147 "
30	3230 "	68	3221 "	106	3149 "
31	3202 "	69	3223 "	107	3151 "
32	3204 "	70	3225 "	108	3153 "
33	3206 "	71	3227 "	109	3155 "
34	3208 "			110	3157 "
35	3210 "	73	3231 "	111	3159 "
36	3212 "	74	3233 "		
37	3216 "	75	3237 "	113	3161 "
38	3218 "	76	3239 "	114	

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: *Stephen L. Fisher* 7/30/87  
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

*James M. Delmon* 7-30-87  
U.S. Soil Conservation District Date

**OWNER / DEVELOPER**  
WILDER BUILDING CORPORATION  
3430 BIRCH HOLLOW ROAD  
BALTIMORE, MARYLAND 21208

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 11-5-86

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1023 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.  
HOWARD COUNTY DEPT. OF PUBLIC WORKS  
*James M. Delmon* 7-30-87  
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Delmon* 7-30-87  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*John W. Messelhorn* 8-12-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

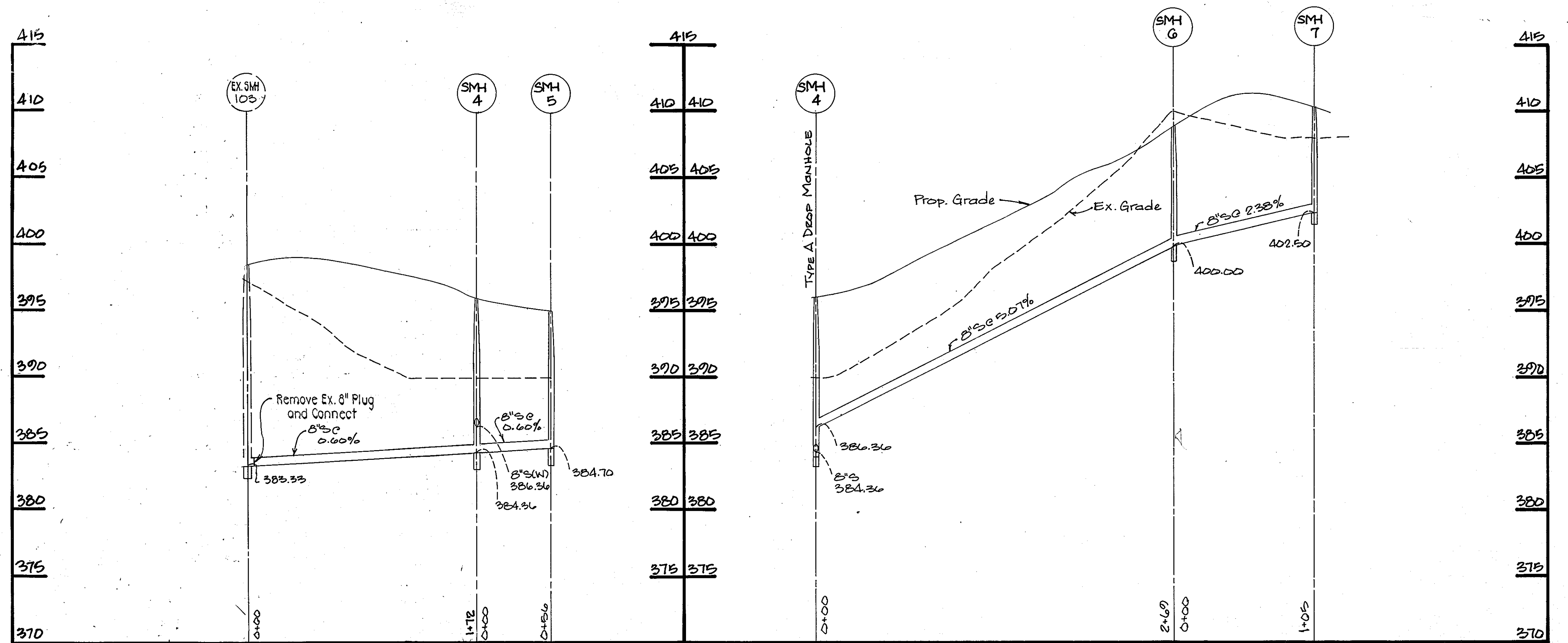
**DEVELOPER'S CERTIFICATION**  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.  
*Joseph Wilder* 3/21/88  
DATE

**ENGINEER'S CERTIFICATION**  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*William G. Rasch II* 2/24/88  
WILLIAM G. RASCH II NO. 4575 DATE

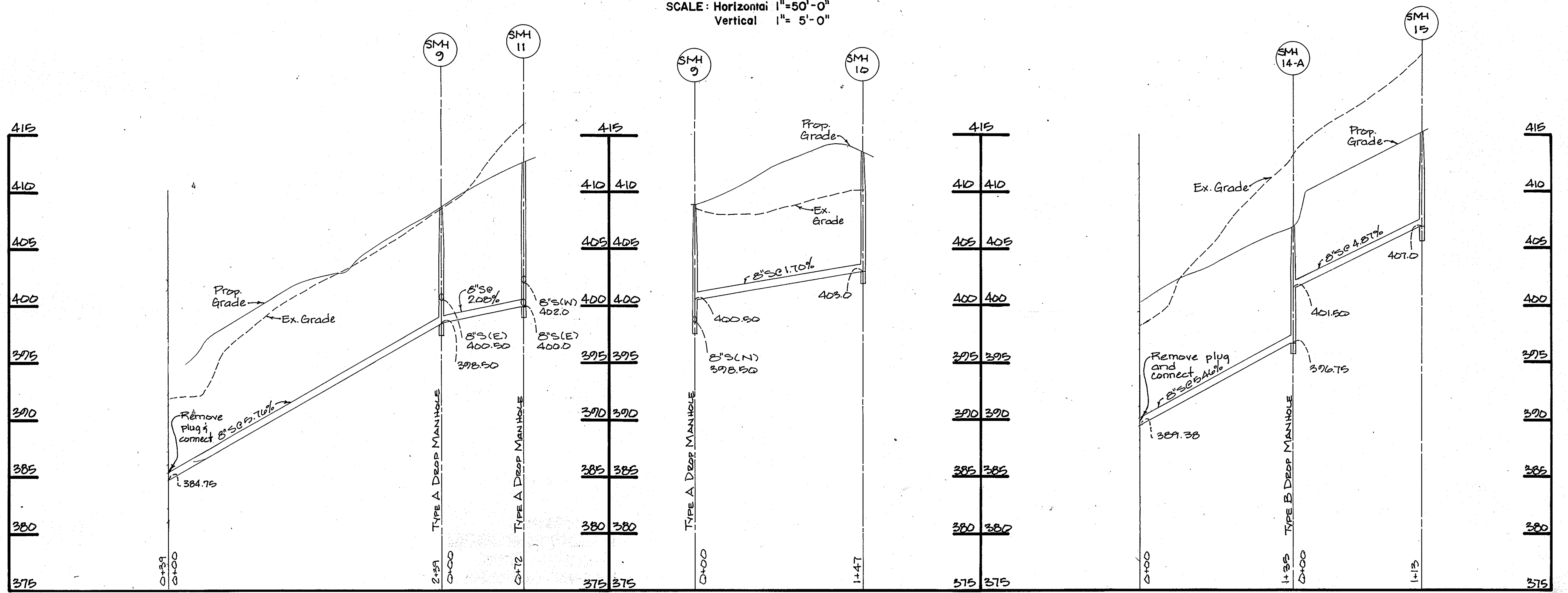


**WILDER SUBDIVISION**  
WATER & SEWER PROFILES  
PARCELS A-2, A-3, A-4  
A RESUBDIVISION OF A PORTION OF PARCEL A-1  
HOENES PROPERTY  
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN APRIL, 1986  
TAX MAP 17 F-86-160 PARCEL 848

**SHEET 7 OF 10**  
DES. A.R.T.  
DRWN. P.S.  
CHK. A.R.T.  
5394-40



SCALE: Horizontal 1"=50'-0"  
Vertical 1"= 5'-0"



APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 11-5-86

OWNER / DEVELOPER  
WILDER BUILDING CORPORATION  
3430 BIRCH HOLLOW ROAD  
BALTIMORE, MARYLAND 21208

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: *Stephen L. Smith* 7/30/87  
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

*James M. Helm* 7-30-87  
U.S. Soil Conservation District Date

Waiver Reference VP-87-77

Revised 5/20/86

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

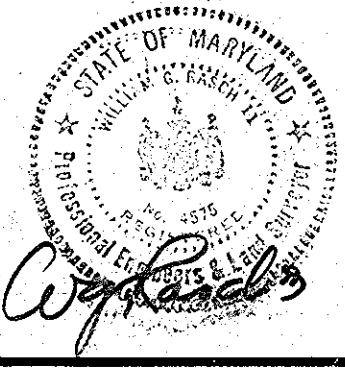
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.  
HOWARD COUNTY DEPT. OF PUBLIC WORKS  
*James M. Helm* 8/23/87  
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Boyd M.D.* 8-5-87  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*John W. M... 8-2-87*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
*W. P. ... 8-6-87*  
PLANNING DIRECTOR DATE

DEVELOPER'S CERTIFICATION  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.  
*Joseph Wilde* 3/24/86  
DATE

ENGINEER'S CERTIFICATION  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*William G. Jaschke II* 3/24/86  
WILLIAM G. JASCHKE II NO. 4575 DATE

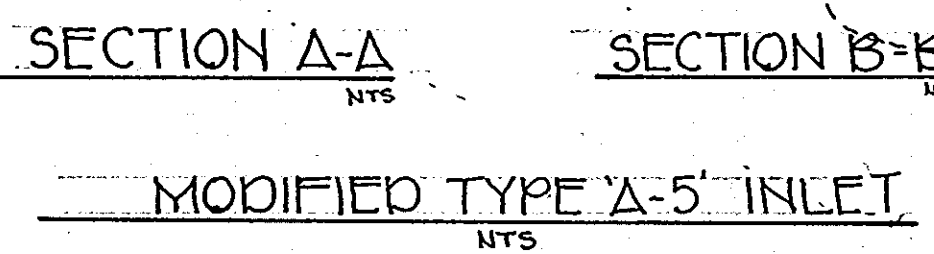
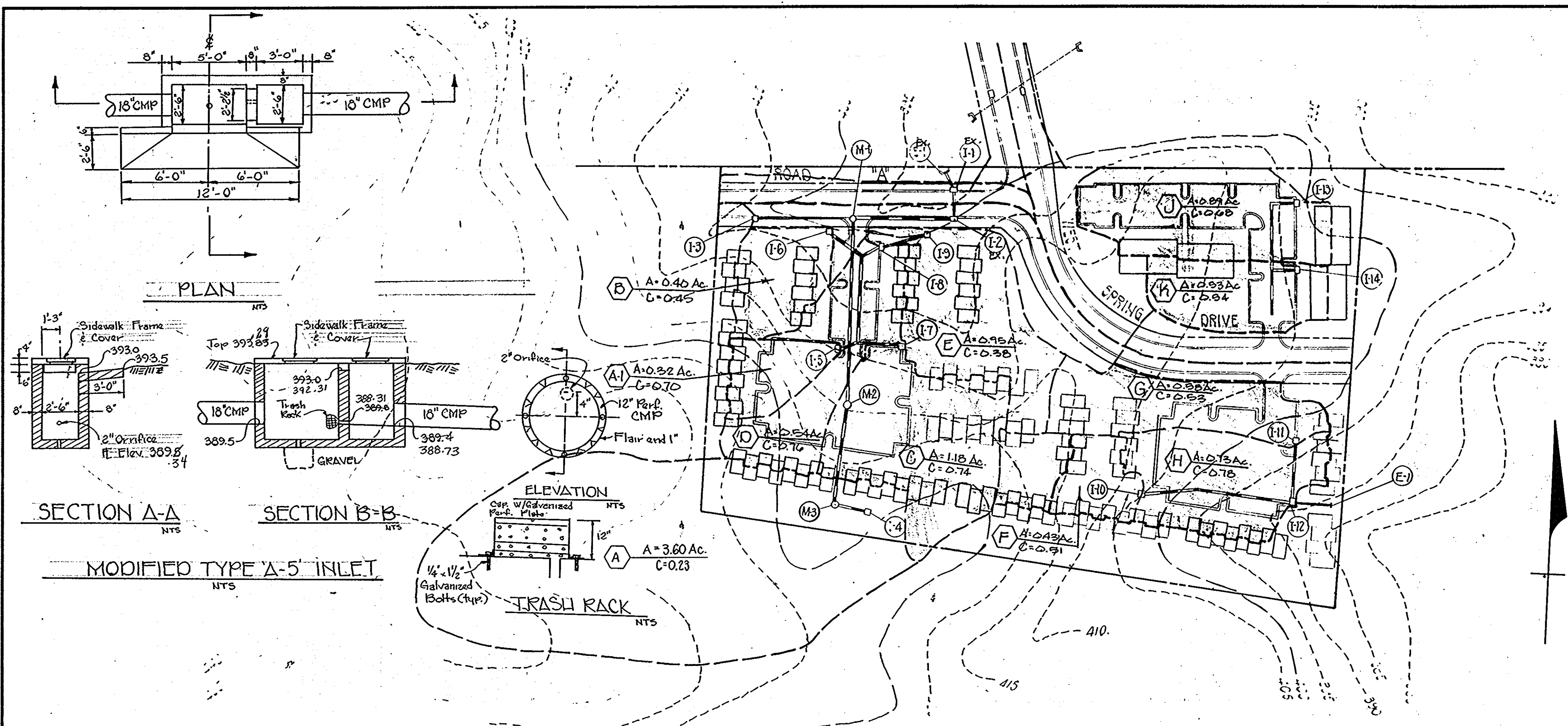


**WILDER SUBDIVISION**  
SEWER PROFILES  
PARCELS A-2, A-3, A-4  
A RESUBDIVISION OF A PORTION OF PARCEL A-1  
HOENES PROPERTY  
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN APRIL, 1986  
TAX MAP 17 F-86-160 PARCEL 848

SHEET 8 OF 10  
DES. A.R.T.  
DRWN. P.S.  
CHK. A.R.T.  
J.O. NO. 5394-40

SDP-86-214





**STORM DRAINAGE MAP**  
SCALE: 1"=100'

**CONSTRUCTION SPECIFICATIONS  
INFILTRATION TRENCH**

- Trench Preparation**  
Excavate the trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.
- Fabric Laydown**  
The filter fabric roll must be cut to the proper width prior to installation. The cut width must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. Place the fabric roll over the trench and unroll a sufficient length to allow placement of the fabric down into the trench. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the lined trench open during windy periods. When overlaps are required between rolls, the upstream roll should lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or to ensure that the fabric conforms to the excavation surface during aggregate placement and compaction.
- Stone Aggregate Placement and Compaction**  
The stone aggregate should be placed in lifts and compacted. A maximum loose lift thickness of 12 inches shall be used per layer.
- Perforated Pipe**  
All piping inside infiltration device shall be perforated corrugated metal pipe. Perforation shall be provided at the bottom half of the pipe. Pipes shall be installed in accordance with the drawings.
- Overlapping and Covering**  
Following the stone aggregate placement, the filter fabric shall be folded over the stone aggregate to form a 6" minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.
- Contamination**  
Care shall be exercised to prevent natural or fill soils from intermixing with the stone aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.

**STRUCTURE SCHEDULE**

No.	TYPE	INN. IN	INN. OUT	TOP ELEV.	REMARKS
I-4	Type S	-	412.50	412.50	Ho.Co.SD-4.22
I-5	A-5	-	391.42*	406.00	Ho.Co.SD-4.01
I-6	Type S	-	388.62*	396.00	Ho.Co.SD-4.22
I-7	A-10	-	394.25*	403.30	Ho.Co.SD-4.02
I-8	A-5	-	389.25*	396.30	Ho.Co.SD-4.01
I-9	Type S	-	388.75*	393.50	Ho.Co.SD-4.22
I-10	Type S	-	401.45	404.50	Ho.Co.SD-4.22
I-11	A-5	-	392.00	397.90	Ho.Co.SD-4.01
I-12	A-5	389.25	389.00	396.50	Ho.Co.SD-4.01
I-13	A-5	-	392.00*	397.00	Ho.Co.SD-4.01
I-14	A-5	-	392.00*	398.40	Ho.Co.SD-4.01
M-2	Manhole	408.09	401.40	411.50	Ho.Co.SD-5.01 or 5.11
M-3	Manhole	411.54	411.54	416.50	Ho.Co.SD-5.01 or 5.11
E-1	Manhole	-	386.50	-	Ho.Co.SD-5.61

\* Bottom of Inlet

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications and with Road Construction Plan F ; Drawing Sediment and Erosion Control.

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 Approved: *Stephen L. Jank* 7/30/87  
 Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.  
 Approved: *James M. Albin* 7-30-87  
 U.S. Soil Conservation District Date

**OWNER / DEVELOPER**  
**WILDER BUILDING CORPORATION**  
 3430 BIRCH HOLLOW ROAD  
 BALTIMORE, MARYLAND 21208

**APPROVED**  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 11-5-86

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE \_\_\_\_\_ P.E. NO. \_\_\_\_\_  
 DATE \_\_\_\_\_

**PURDUM & JESCHKE**  
**CONSULTING ENGINEERS**  
**LAND SURVEYORS**  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

APPROVED: For public water and public storm drainage and roads.  
 Howard County Health Department  
*James M. Albin* 8/1/87  
 Director Date

APPROVED: For public water and public sewerage systems.  
 Howard County Health Department  
*James M. Albin* 8-3-87  
 Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning and Zoning.  
*John W. Hanchman* 8-6-87  
 Chief, Division of Land Development and Zoning Date

APPROVED: Howard County Office of Planning and Zoning.  
*William A. ...* 8-6-87  
 Planning Director Date

DEVELOPER'S CERTIFICATION  
 I certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance of the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.  
*Joseph Wilder* 7/24/87  
 Signature Date

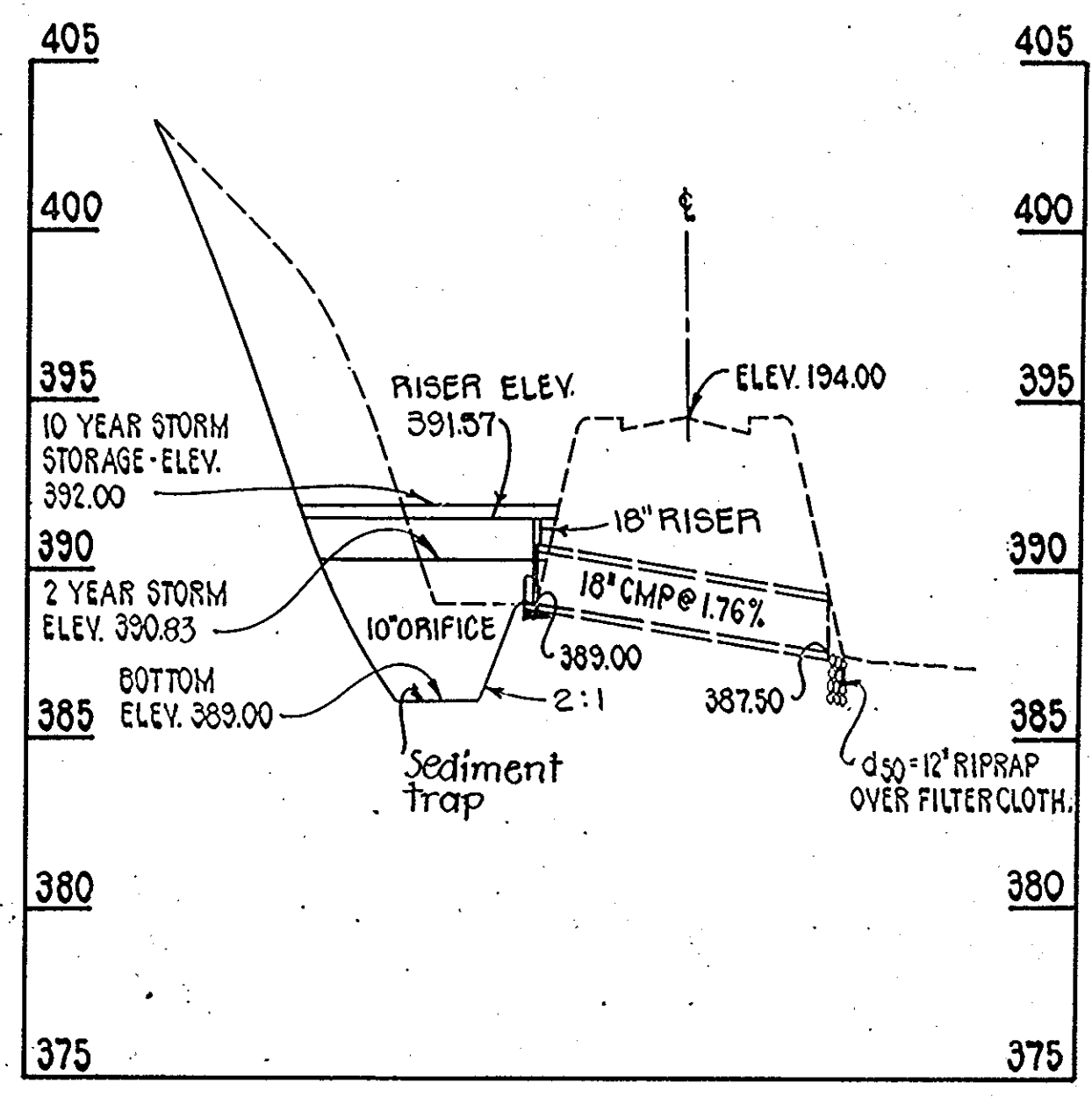
ENGINEER'S CERTIFICATION  
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
*Richard H. Beech* 7/24/87  
 RICHARD H. BEECH Date

WILDER SUBDIVISION  
 STORM WATER & SITE DETAILS  
 PARCELS A-2, A-3, A-4  
 A RESUBDIVISION OF A PORTION OF PARCEL A-1  
 HOENES PROPERTY  
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 TAX MAP NO. 17 PARCEL NO. 848  
 ZONED RA15 F-86-160 APRIL 1986

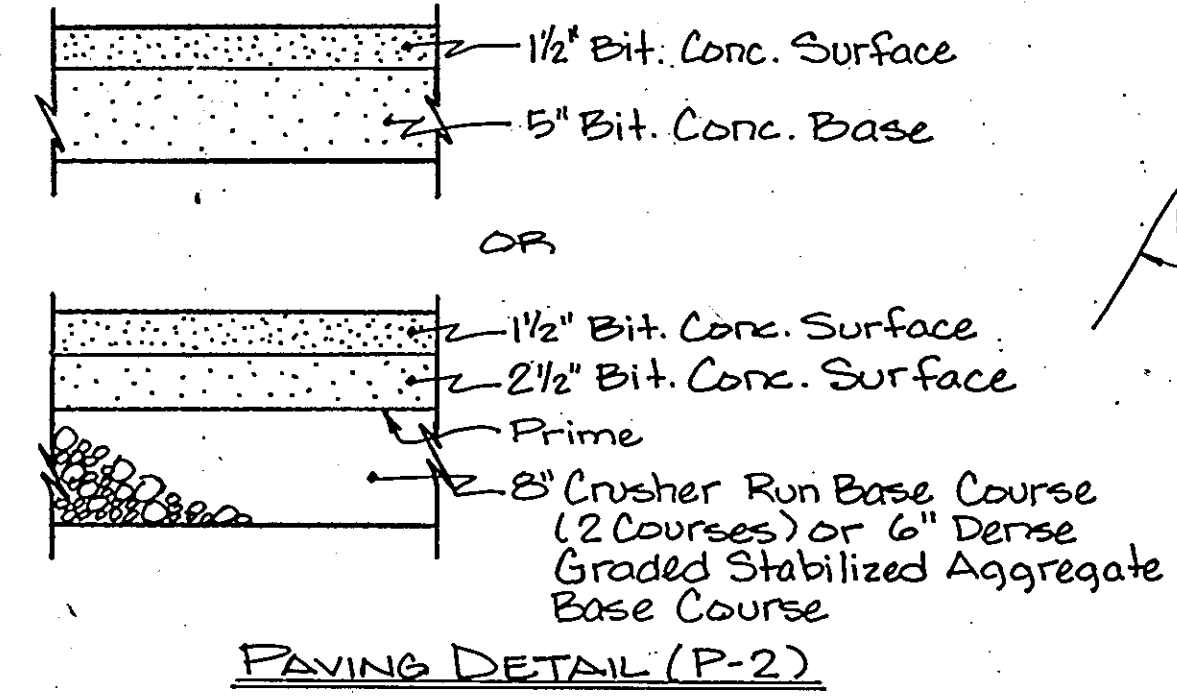


Waiver Reference VP-87-77

DES: ATR  
 DRAWN: ARW  
 CHK: WGR  
 SHEET 9 OF 10  
 J.O. NO. 5394-40  
 SDP-86-214



**TEMPORARY SWM FACILITY**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'



**PAVING DETAIL (P-2)**

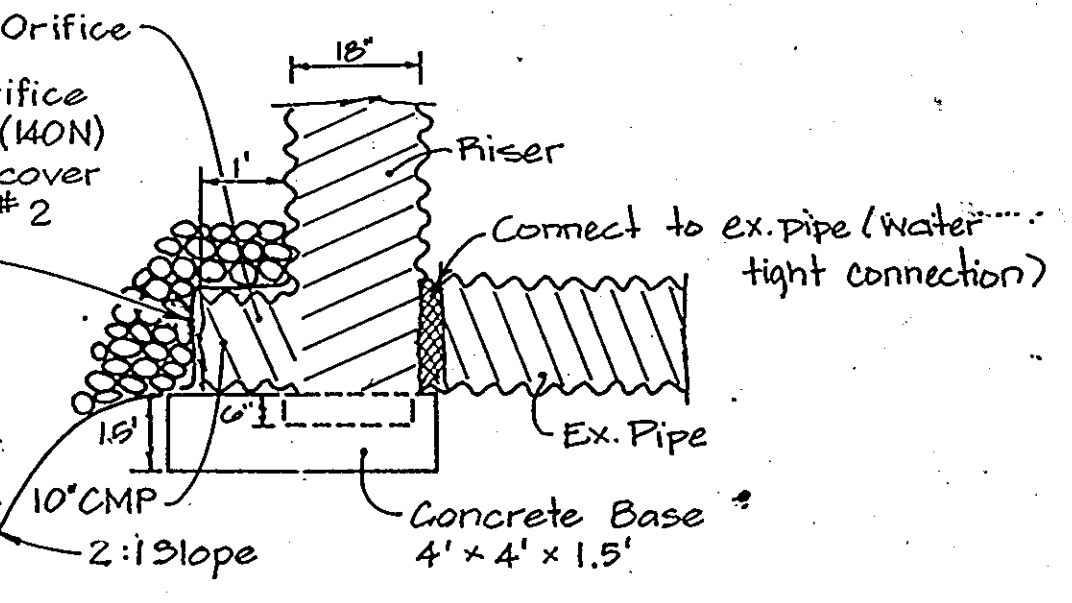
**7. Voids Behind Fabric**  
 Voids can be created between the fabric and excavation sides and shall be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.

**8. Stone Aggregate**  
 Stone aggregate shall be 1-1/2" minimum to 3" maximum size.

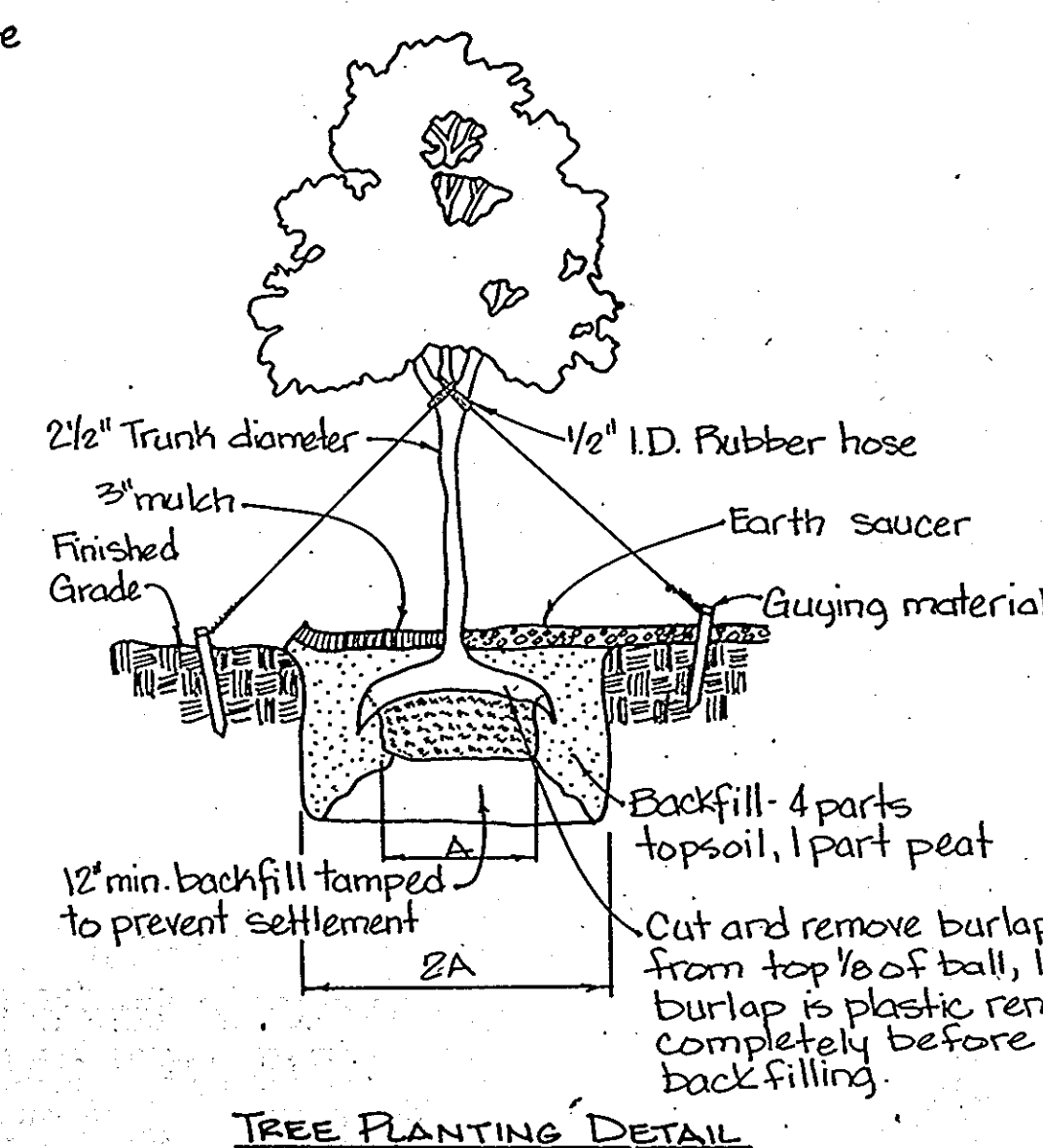
**9. Trench Backfill**  
 The trench, after installing infiltration devices, shall be backfilled in 12" layers and shall be compacted to at least 90 percent of maximum density.

**10. Timing**  
 An infiltration trench shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

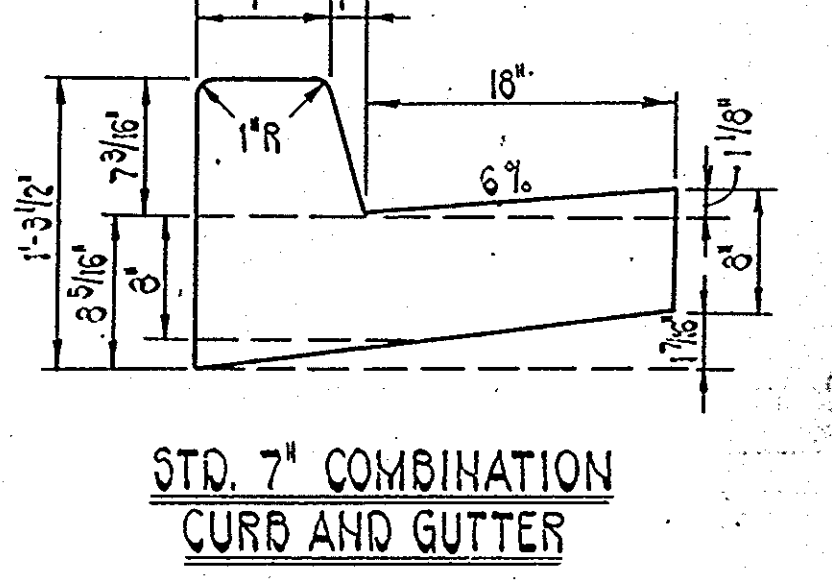
**11. Stabilization**  
 See approved Sediment Control Plan for stabilization of areas not to be paved.



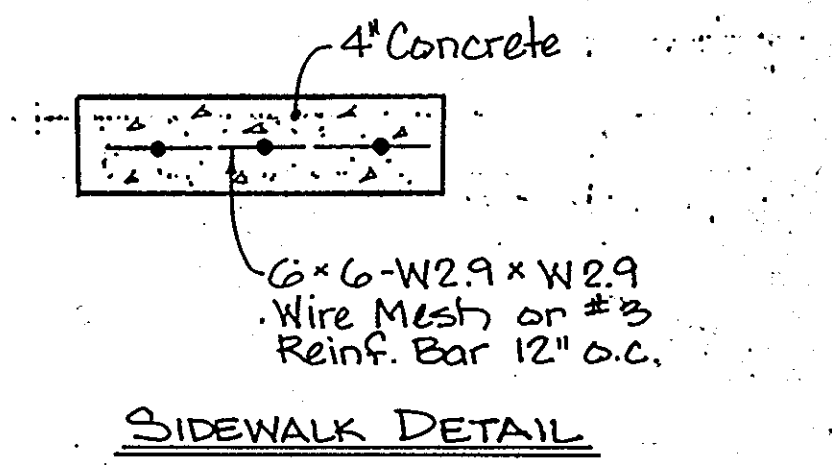
**RISER DETAIL  
TEMP. SWMF**



**TREE PLANTING DETAIL**



**STD. 7" COMBINATION  
CURB AND GUTTER**

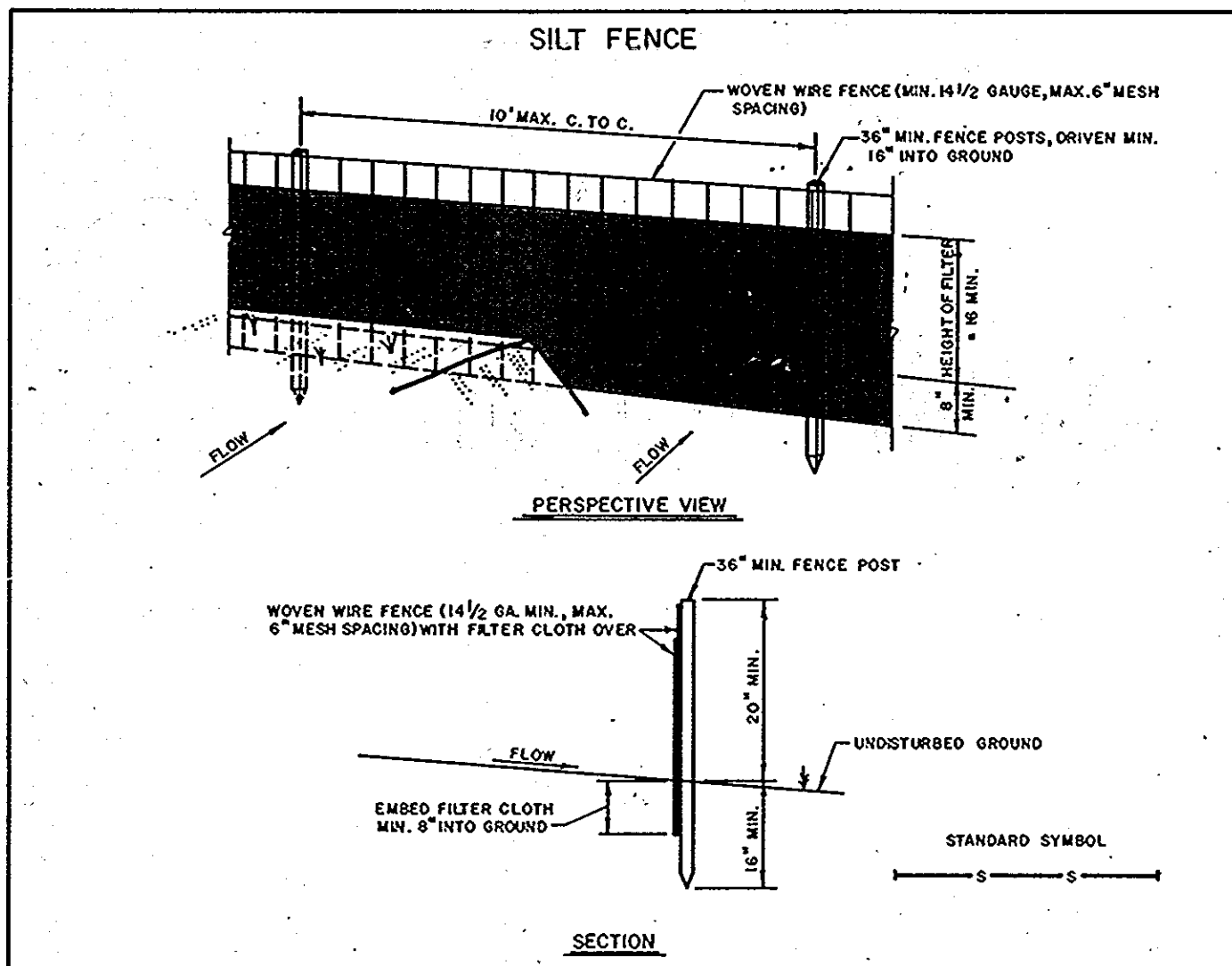


**SIDEWALK DETAIL**

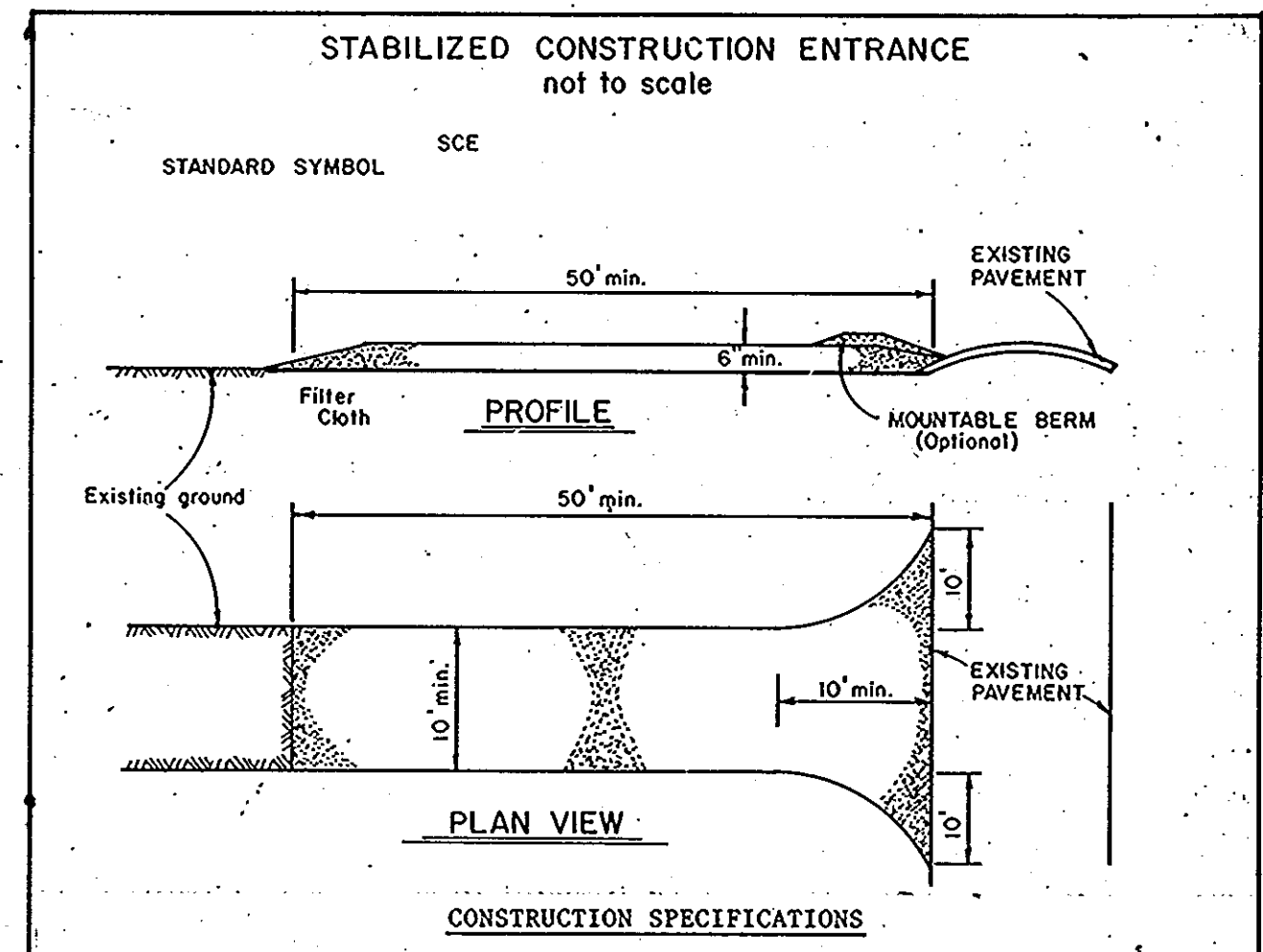
**PLANT LIST**

Key/Symbol	Quan.	Name	Size	Spacing
TC	63	Taxus cuspidata 'Nana'	15-18" cal.	5'oc.
		Dwarf Japanese Yew		as shown
TB	8	Taxus baccata 'Repanders'	18-24" BxB	As shown
		English Yew		
PC	6	Prunus calleryana 'Bradford Pear'	2-2 1/2" cal.	As shown
ZS	20	Zelkova serrata	2-2 1/2" cal.	As shown
		Japanese zelkova		
PS	29	Pinus strobus	4-5' BxB	30' oc.
		White Pine		
TD	6	Thuja occidentalis 'Nigra'	5-6' BxB	As shown
		Dr. Green American Arborvitae		
AP	26	Acer palmatum autumnale	2-2 1/2" cal.	As shown
		Redspire		
		Bloodgood Maple		
FS	20	Forsythia x intermedia	4-5' BxB	As shown
		Canadian Hemlock		
FI	2	Forsythia var. sieboldii	3-4' BxB	As shown
		Forsythia		

Revised 8/2/85  
 Revised 6/11/82  
 Revised 5/27/86



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- Woven wire fence to be fastened securely to fence posts with wire ties or staples. **POSTS:** Steel either T or U Type or 2" Hardwood
  - Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid-section. **FENCE:** Woven wire, 14 Ga. 6" Max. Mesh Opening
  - When two sections of filter cloth adjoin each other, they shall be overlapped by six inches and folded. **FILTER CLOTH:** Filter X, Mirafil 100X, Stabilinka T140N, or approved equal
  - Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence. **PREFABRICATED UNIT:** Geofab, Envirofence, or approved equal



- 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.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 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 inspections and needed maintenance shall be provided after each rain.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent, long-lived vegetative cover is needed.

**Seedbed Preparation:** Loosen upper 3 inches of soil by raking, discing, or other acceptable means before seeding.

**Soil Amendments:** Use on the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.)
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

**Seeding:** For the periods March 1 thru April 30 and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option 1 - 2 tons per acre of well-anchored straw mulch, and seed as soon as possible in the spring. Option 2 - Use sod. Option 3 - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well-anchored straw.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq.ft.) for anchoring.

**Maintenance:** Inspect all seeded areas, and make needed repairs, replacements, and reseedings.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

**Seedbed Preparation:** Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding.

**Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.)

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per area of annual rye (3.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch, and seed as soon as possible in the spring, or use sod.

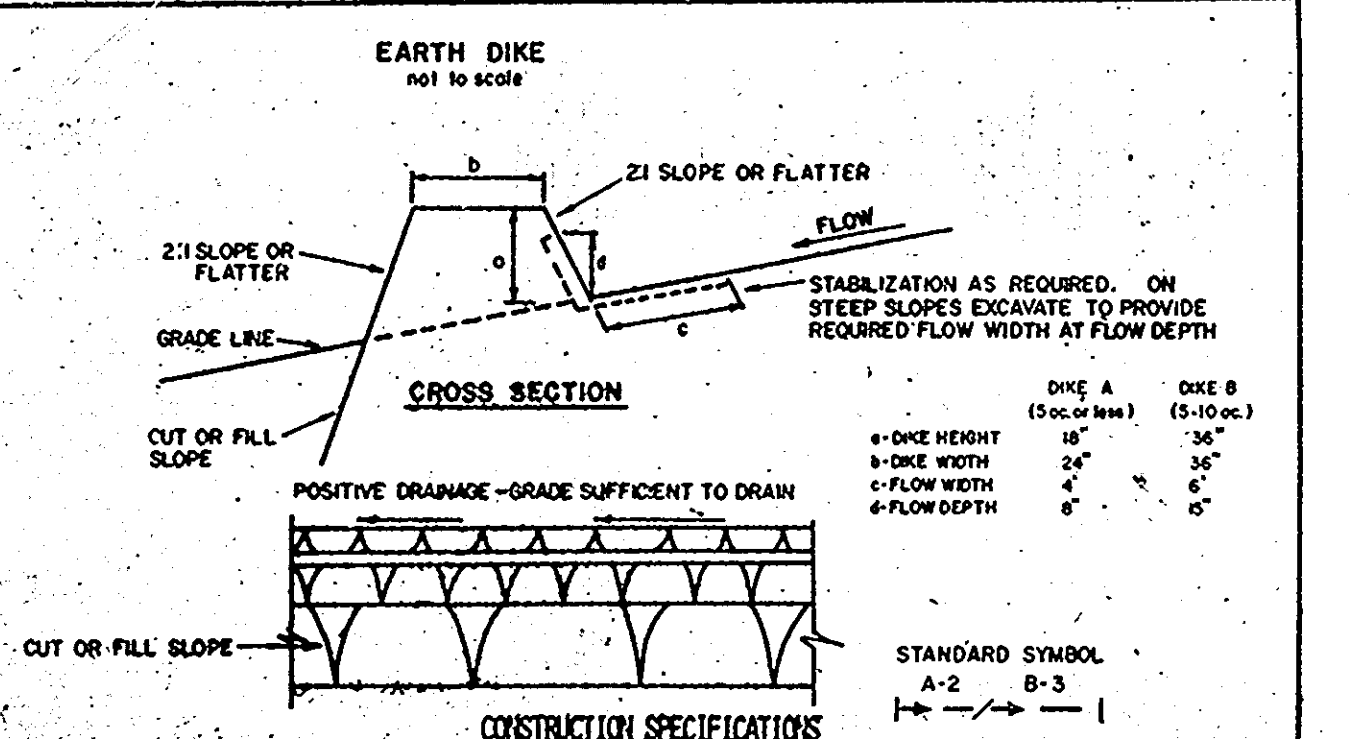
**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal/1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

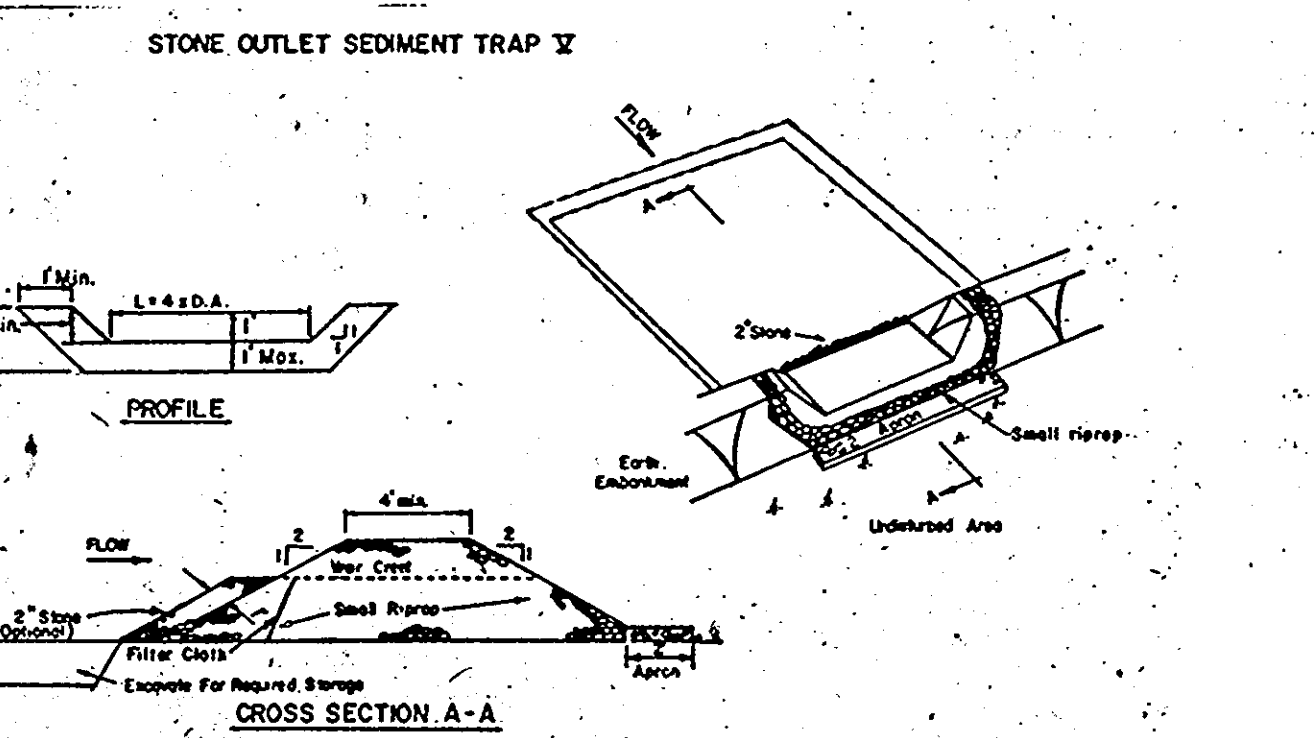
**SEDIMENT CONTROL NOTES**

- 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 as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch along can only be done when recommended seeding dates do not allow 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:
 

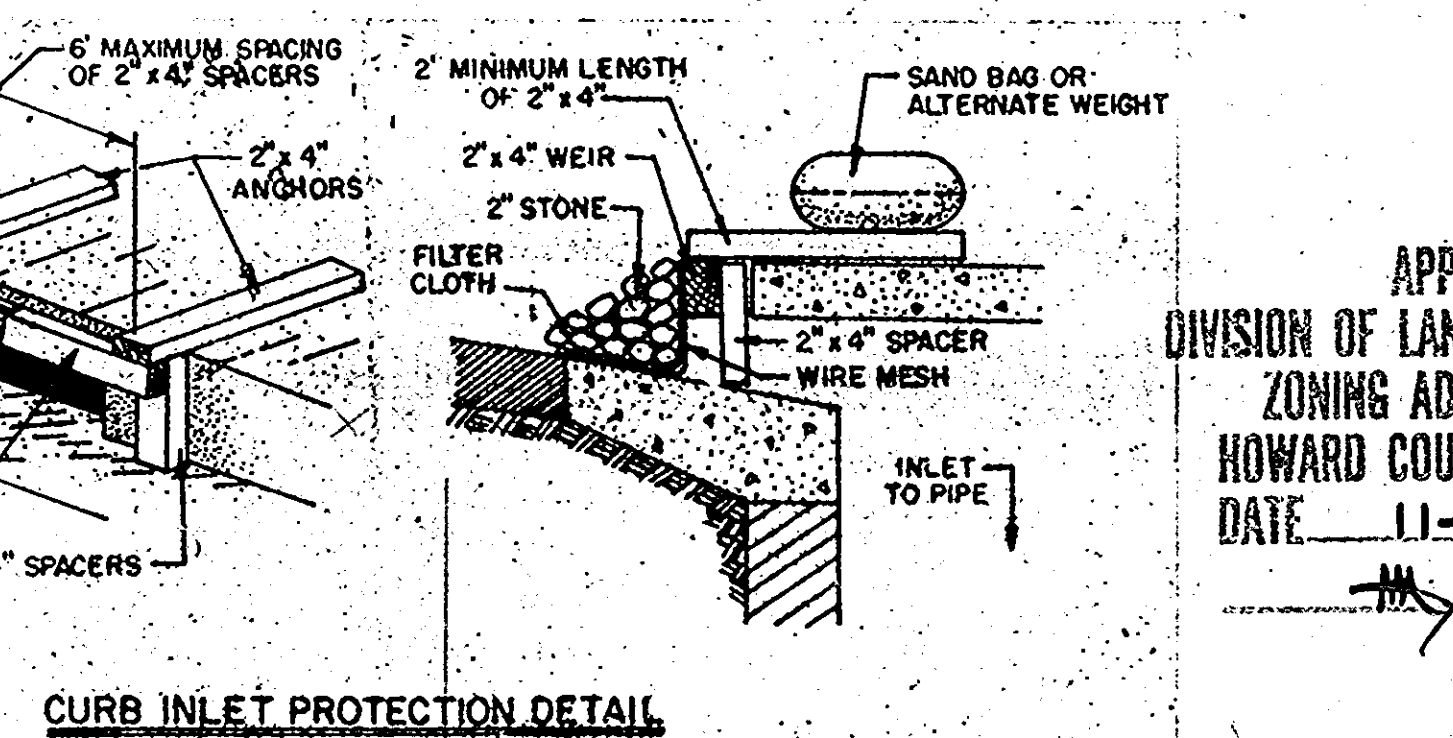
Total area of site	7.16 acres
Area disturbed	7.00 acres
Area to be roofed or paved	4.11 acres
Area to be vegetatively stabilized	5.09 acres
Total cut	11,641 cu.yds.
Total fill	14,083 cu.yds.
Office waste/borrow area location	Not shown
- Any sediment control practice which is disturbed by grading activity 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 DW 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.
- On all site 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.



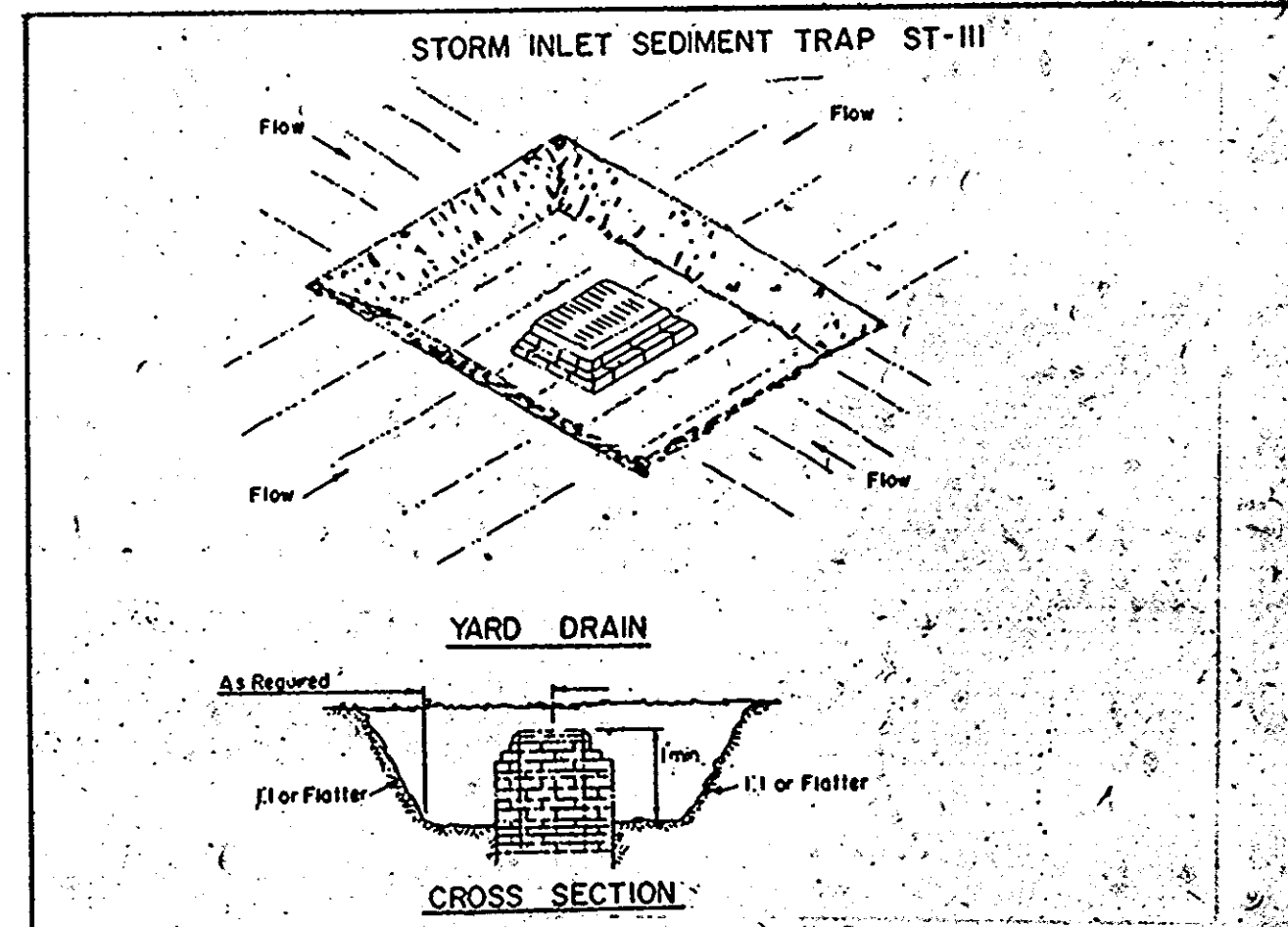
- All dikes shall be compacted by earth-moving equipment.
  - All dikes shall have positive drainage to an outlet.
  - Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
  - Field location should be adjusted as needed to utilize a stabilized safe outlet.
  - Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment-trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
  - Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per the chart below.
- | TYPE OF TREATMENT | CHANNEL GRADE | DIKE A                           | DIKE B                                       |
|-------------------|---------------|----------------------------------|--|
| 1                 | 5-3.0%        | SEED AND STRAW MULCH             | SEED AND STRAW MULCH                         |
| 2                 | 3-1-5.0%      | SEED AND STRAW MULCH             | SEED USING JUTE, OR EXCELISUR; SOD; 2" STONE |
| 3                 | 5-1-8.0%      | SEED WITH JUTE, OR SOD; 2" STONE | LINED RIP-RAP 4-8"                           |
| 4                 | 8-1-20%       | LINED RIP-RAP 4-8"               | ENGINEERING DESIGN                           |
- A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.  
 B. Rip-rap to be 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.  
 C. Approved equivalents can be substituted for any of the above materials.  
 7. Periodic inspection and required maintenance must be provided after each rain event.



- CONSTRUCTION SPECIFICATIONS FOR ST-T**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mats. The soil area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregated placed on the upgrade side on the small riprap 2" embedded filter cloth in the riprap.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 11-5-86  
*[Signature]*



- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 Approved: *[Signature]* 7-30-87  
 Signature Date  
 Reviewed for Howard Soil Conservation District and meets technical requirements.  
 Approved: *[Signature]* 7-30-87  
 U.S. Soil Conservation Dist. Date

APPROVED FOR PUBLIC WATER & PRIVATE SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 Joyce M. Boyd M.D./J.D. 9-5-87  
 COUNTY HEALTH OFFICER DATE

OWNER / DEVELOPER  
 WILDER BUILDING CORPORATION  
 3430 BIRCH HOLLOW ROAD  
 BALTIMORE, MARYLAND 21208

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

APPROVED FOR PUBLIC WATER, PRIVATE SEWERAGE, STORM DRAINAGE, AND ROAD.  
 HOWARD CO. DEPT. OF PUBLIC WORKS  
 James M. Selva 8-23-87  
 DIRECTOR DATE  
 William E. Reddy 8-23-87  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING  
 John W. Muehlenstein 8-6-87  
 CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE  
*[Signature]* 8-6-87  
 PLANNING DIRECTOR DATE

DEVELOPER'S CERTIFICATION  
 I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.  
*[Signature]* 7/20/86  
 Date

ENGINEER'S CERTIFICATION  
 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]* 3/11/86  
 William G. Rasch II. Date

Waiver Reference VP-87-77  
 Revised 5/29/86  
**WILDER SUBDIVISION**  
 SEDIMENT CONTROL DETAILS  
 PARCELS A-2, A-3, A-4  
 A RESUBDIVISION OF A PORTION OF PARCEL A-1  
 HOENES PROPERTY  
 2nd ELECTION DISTRICT HOWARD COUNTY MD.  
 ZONED RA15 SCALE: AS SHOWN  
 F-86-160 APRIL, 1986  
 J.O. NO. 5394-40

SHEET 10 OF 10  
 DES. ATR.  
 DRWN. ATR.  
 CHK. ATR.  
 J.O. NO. 5394-40  
 SDP-86-214