

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TELEPHONE 792-7272.
6. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES CURRENT REVISED EDITION.

THE HORIZONTAL CONTROL IS BASED ON THE FOLLOWING STATIONS:

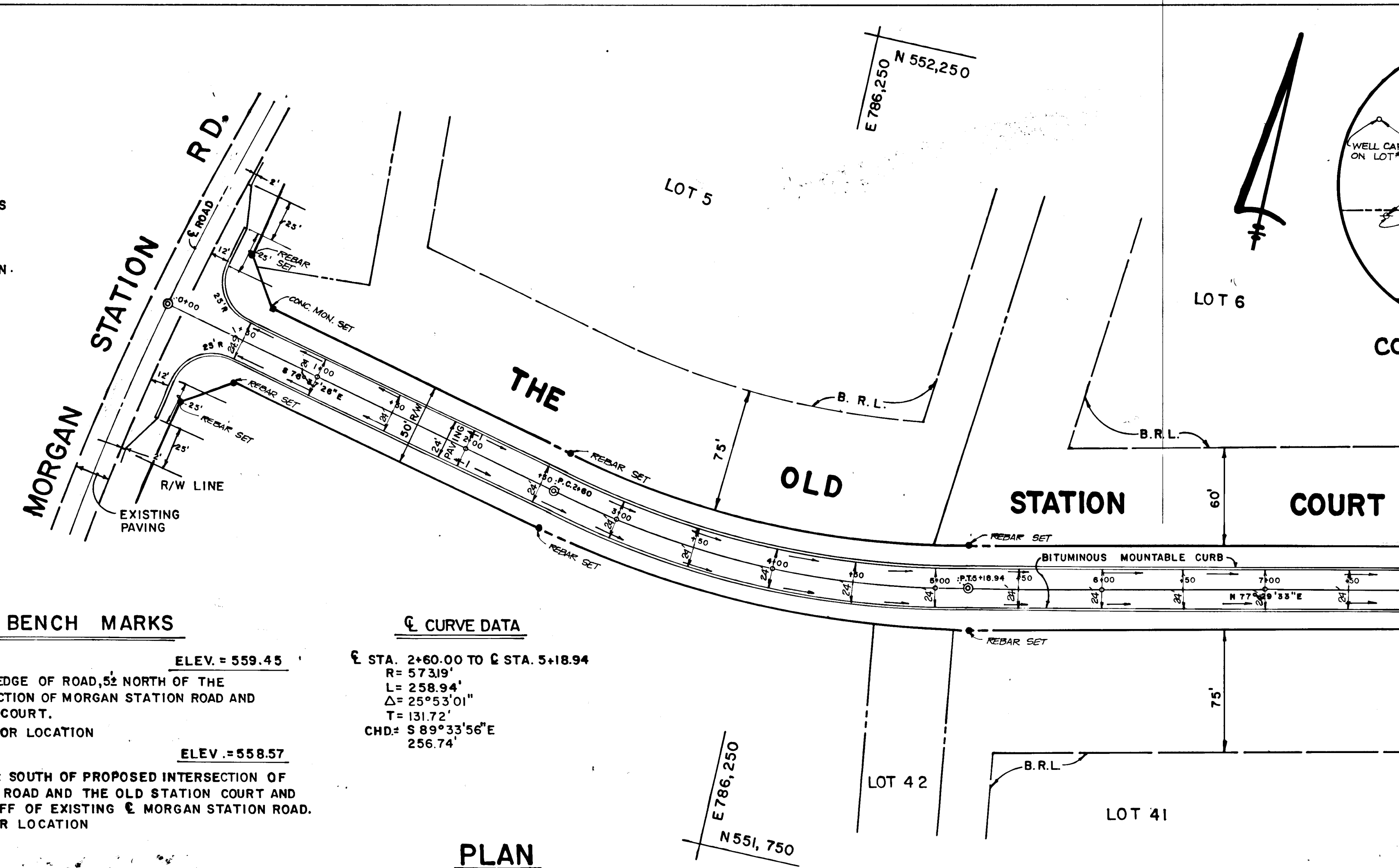
STA. 3932002	N 555 918.773
	E 787 271.512
STA. 3932003	N 554 688.934
	E 786 659.322

APPROVED
DEPARTMENT OF PUBLIC WORKS
Middle Jones 3/9/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Franklin W. McLean 3/10/88
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
R. Johnson & K. King 3-14-88
REGISTERED PROFESSIONAL ENGINEERS DATE

APPROVED
OFFICE OF PLANNING AND ZONING
James Rutter 3/10/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



BENCH MARKS

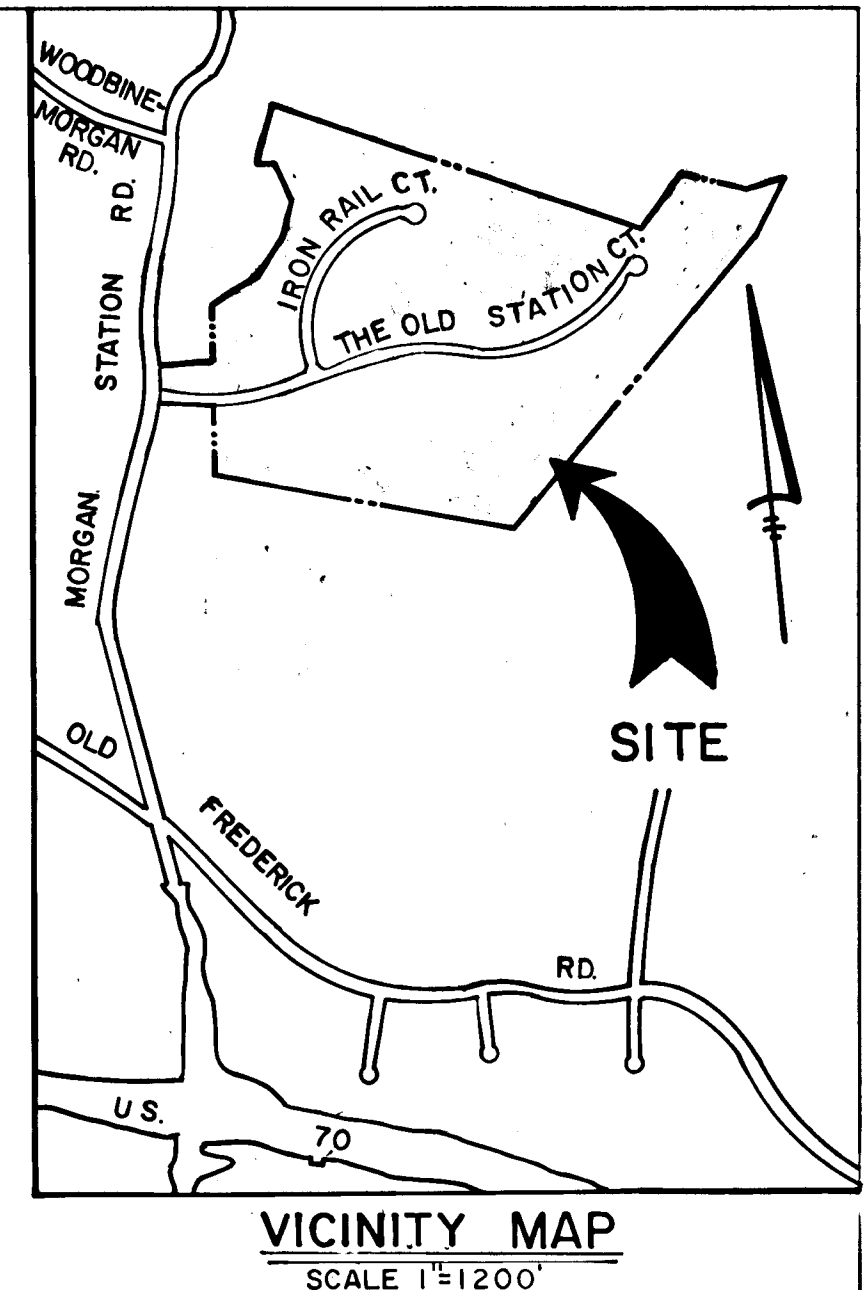
B.M. #1 ELEV. = 559.45
P.K. NAIL SET IN EDGE OF ROAD, 52' NORTH OF THE PROPOSED INTERSECTION OF MORGAN STATION ROAD AND THE OLD STATION COURT.
#SEE SHEET 6 FOR LOCATION

B.M. #2 ELEV. = 558.57
REBAR SET 545' SOUTH OF PROPOSED INTERSECTION OF MORGAN STATION ROAD AND THE OLD STATION COURT AND SET BACK 44' OFF OF EXISTING E MORGAN STATION ROAD.
#SEE SHEET 6 FOR LOCATION

CURVE DATA

E STA. 2+60.00 TO C STA. 5+18.94
R = 573.19'
L = 258.94'
Δ = 25°53'01"
T = 131.72'
CHD = S 89°33'56" E 256.74'

PLAN
SCALE 1" = 50'



MORGAN STATION
LOTS 5-42
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

THE OLD STATION COURT
PLAN AND PROFILE

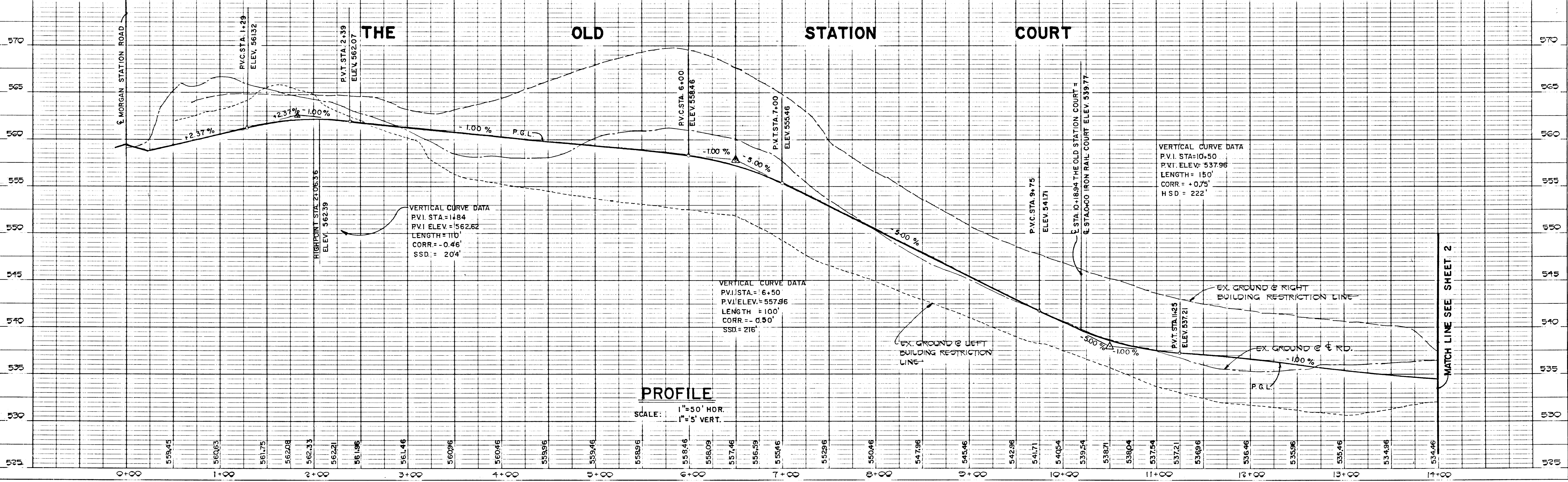
OWNER AND DEVELOPER
HEMPHILL ASSOCIATES
P.O. BOX 15
ELLCOTT CITY MARYLAND 21043

SCALE AS SHOWN DATE OCT 23, 1987 DWG. NO. 1 OF 8
DES. R. ISAACS DRN. S. BOOTH CHK. C. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLCOTT CITY, MARYLAND 21043

AS-BUILT SURVEY CERTIFIED BY
CHARLES J. CROVO, SR. - MD. REG. NO. 13204 ON 9-21-88

Charles J. Crovo Sr. 3/11/87
REGISTERED PROFESSIONAL SURVEYOR
STATE OF MARYLAND



PROFILE
SCALE: 1" = 50' HOR.
1" = 5' VERT.

DATE _____ BY _____
SURVEYED _____
ALIGNED _____
CHECKED _____
RT. OF WAY CHECKED _____
NO. _____

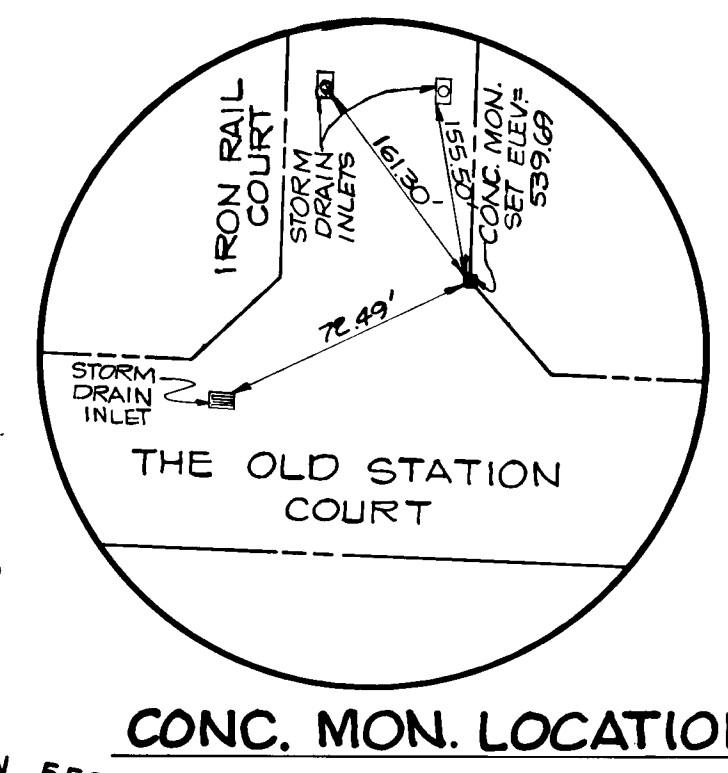
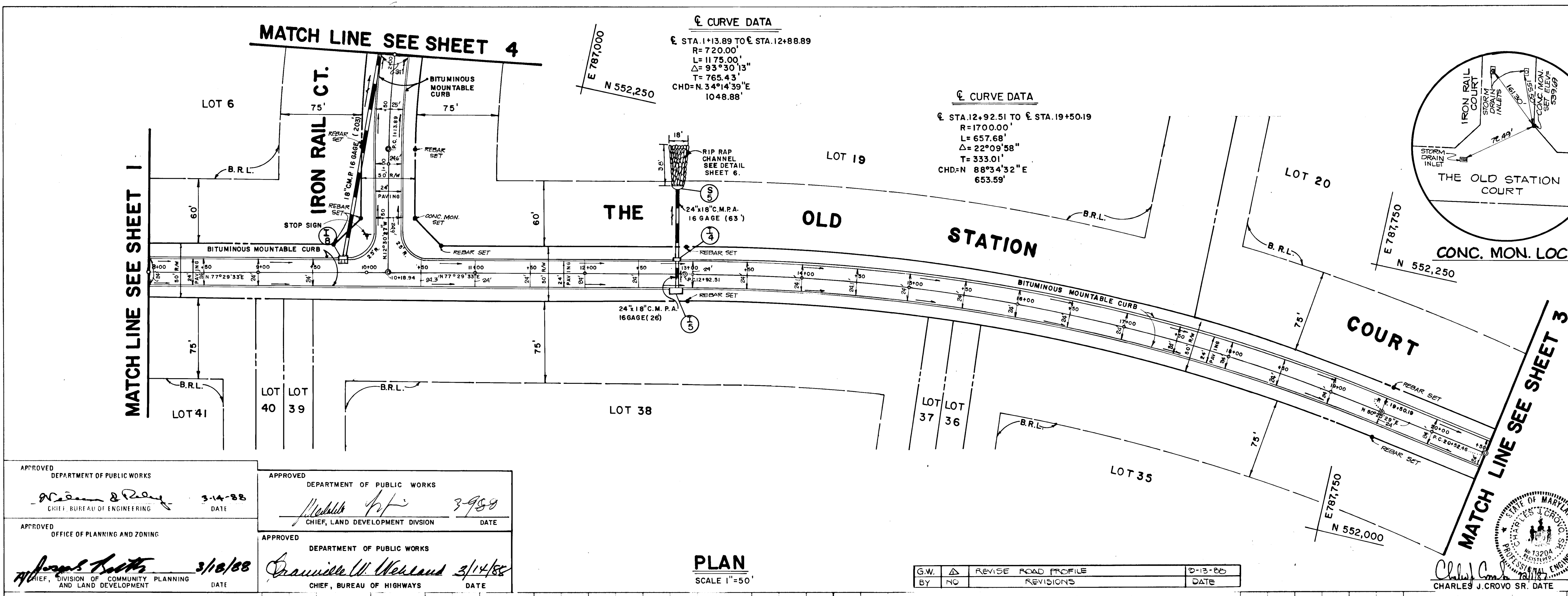
DATE _____ BY _____
SURVEYED _____
GRADES CHECKED _____
B.M.'S NOTED _____
STRUCTURE NOTATIONS CHECKED _____
NO. _____

12/2

PLAN
 SURVEYED
 PLOTTED
 CHECKED
 REVISIONS
 NO.

PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 REVISIONS
 NO.

1272



AS-BUILT SURVEY CERTIFIED BY
 CHARLES J. GROVO, SR. - MD. P.E. NO.
 13204 ON 9-21-88

APPROVED DEPARTMENT OF PUBLIC WORKS
 3-14-88
 APPROVED DEPARTMENT OF PUBLIC WORKS
 3-9-88
 APPROVED OFFICE OF PLANNING AND ZONING
 3/18/88
 APPROVED DEPARTMENT OF PUBLIC WORKS
 3/14/88

PLAN
 SCALE 1"=50'

G.W.	REVISIONS	DATE
BY	NO	

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 CHARLES J. GROVO SR. DATE

MORGAN STATION
 LOTS 5-42
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

THE OLD STATION COURT
 PLAN & PROFILE

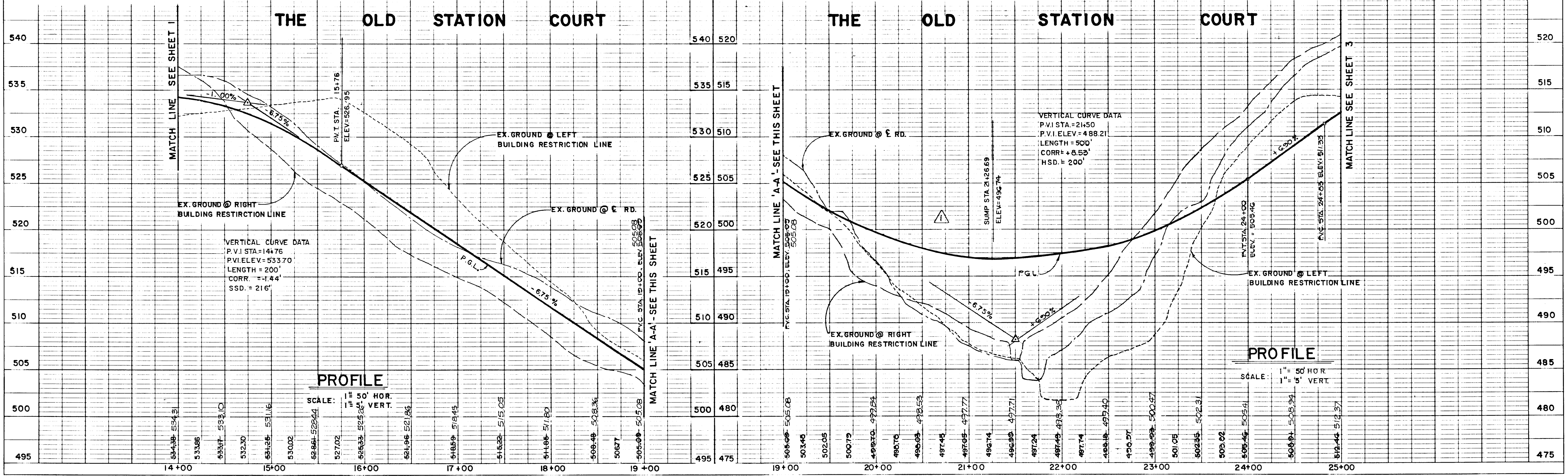
IRON RAIL COURT
 PLAN

OWNER AND DEVELOPER
 HEMPHILL ASSOCIATES
 P.O. BOX 15
 ELLICOTT CITY MARYLAND 21043

DATE SHOWN: OCT 23, 1987
 DWG. NO. 2 OF 8

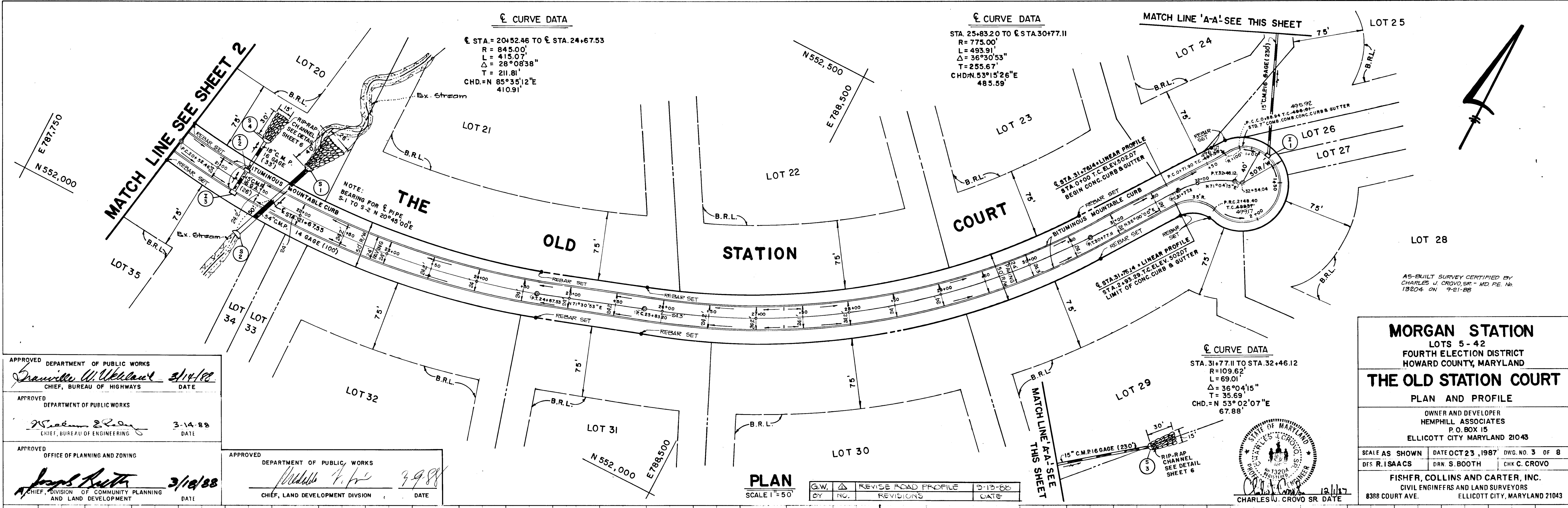
DESIGNED BY: R. ISAACS
 DRAWN BY: S. BOOTH
 CHECKED BY: C. GROVO

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



PLAN
 SURVEYED
 PLOTTED
 CHECKED
 DATE

PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 DATE



MORGAN STATION
 LOTS 5-42
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

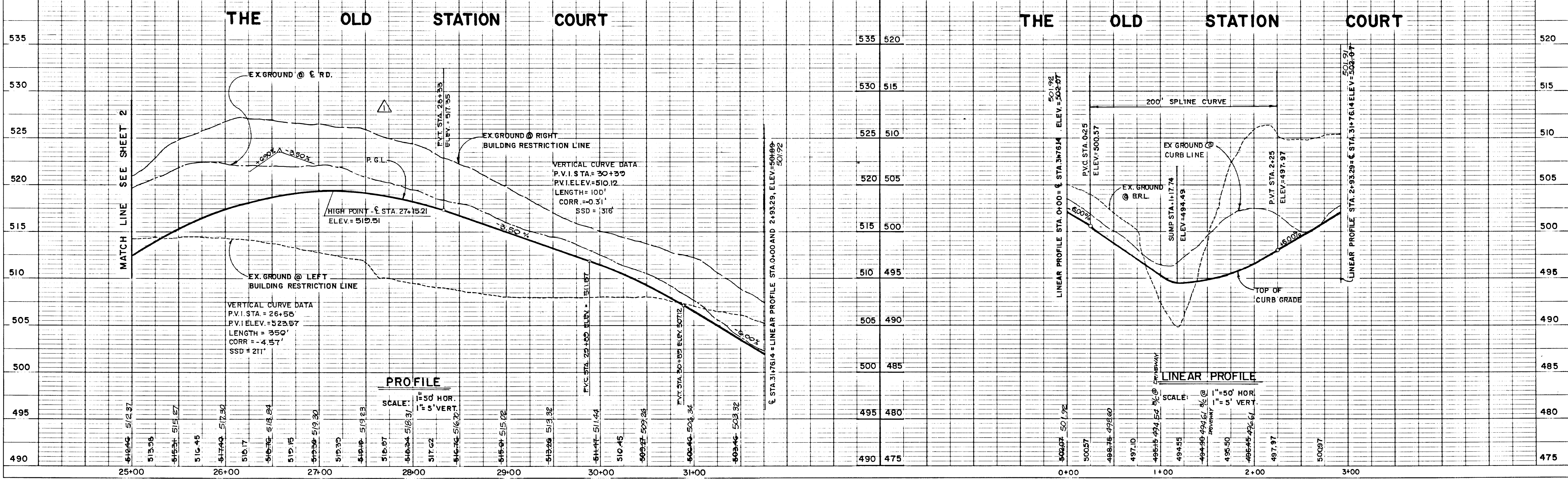
THE OLD STATION COURT
 PLAN AND PROFILE

OWNER AND DEVELOPER
 HEMPHILL ASSOCIATES
 P.O. BOX 15
 ELLICOTT CITY MARYLAND 21043

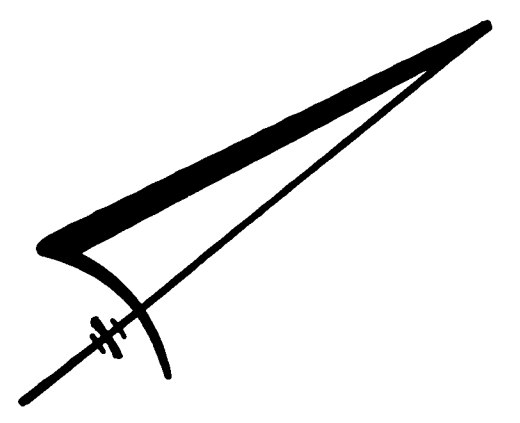
SCALE AS SHOWN DATE OCT 23, 1987 DWG. NO. 3 OF 8
 DRS R. ISAACS DRN S. BOOTH CHK C. CROVO

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

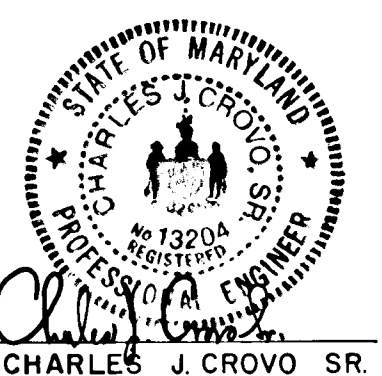
AS-BUILT SURVEY CERTIFIED BY
 CHARLES U. CROVO SR. - MD. PE. No. 13204 ON 9-21-88



1272



AS-BUILT SURVEY CERTIFIED BY
CHARLES J. CROVO, SR. - MD. P.E. NO.
1320A ON 9-21-88



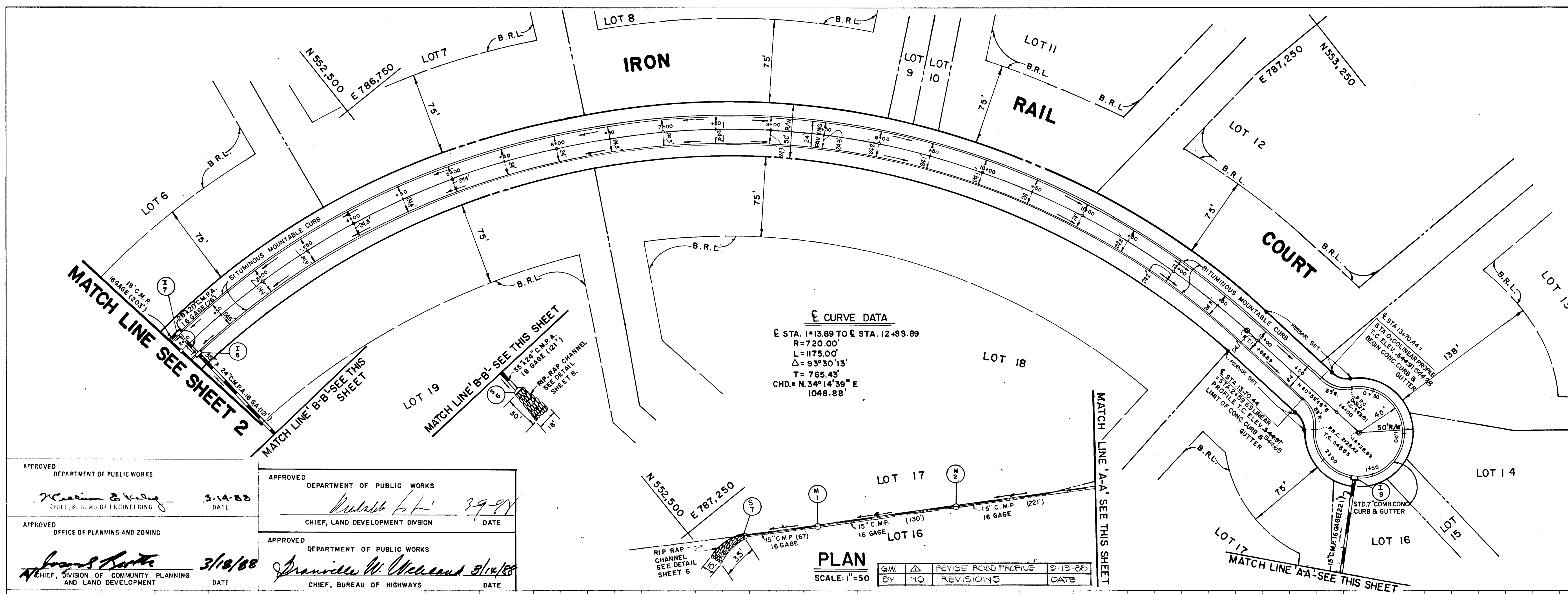
MORGAN STATION
LOTS 5-42
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

IRON RAIL COURT
PLAN AND PROFILE

OWNER AND DEVELOPER
HEMPHILL ASSOCIATES
P.O. BOX 15
ELLCOTT CITY MARYLAND 21043

SCALE(S) SHOWN DATE OCT 23, 1987 DWG. NO. 4 OF 8
DFS RISAACS DRN S. BOOTH CHY. C. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLCOTT CITY, MARYLAND 21043



PLAN
SCALE: 1"=50'

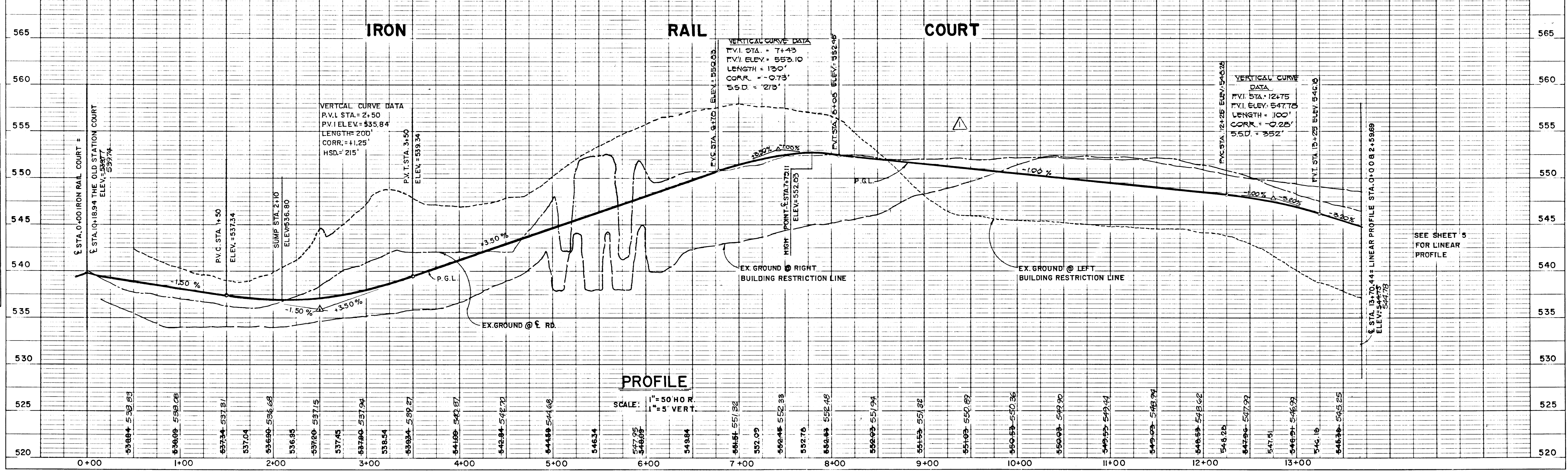
NO.	REVISIONS	DATE
1	REVISE ROAD PROFILE	9-13-88

APPROVED DEPARTMENT OF PUBLIC WORKS
William E. Kiley 3-14-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Walter L. ... 3-9-87
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED OFFICE OF PLANNING AND ZONING
James ... 3/18/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Granville W. McLeod 3/14/88
CHIEF, BUREAU OF HIGHWAYS DATE



PROFILE
SCALE: 1"=50' HOR.
1"=5' VERT.

SEE SHEET 5
FOR LINEAR
PROFILE

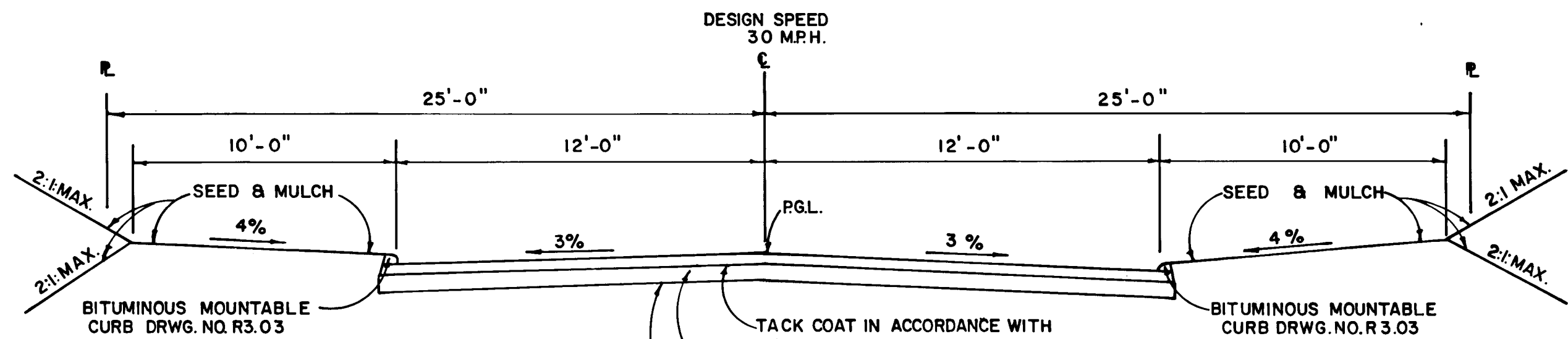
DATE: _____
BY: _____
SURVEYED: _____
PLOTTED: _____
ALIGNED CHECKED: _____
NOTE BOOK NO. _____
RT. OF WAY CHECKED: _____

DATE: _____
BY: _____
SURVEYED: _____
PLOTTED: _____
GRADES CHECKED: _____
NOTE BOOK NO. _____
STRUCTURE NOTATIONS CHECKED: _____

1272

AS-BUILT 9-21-89

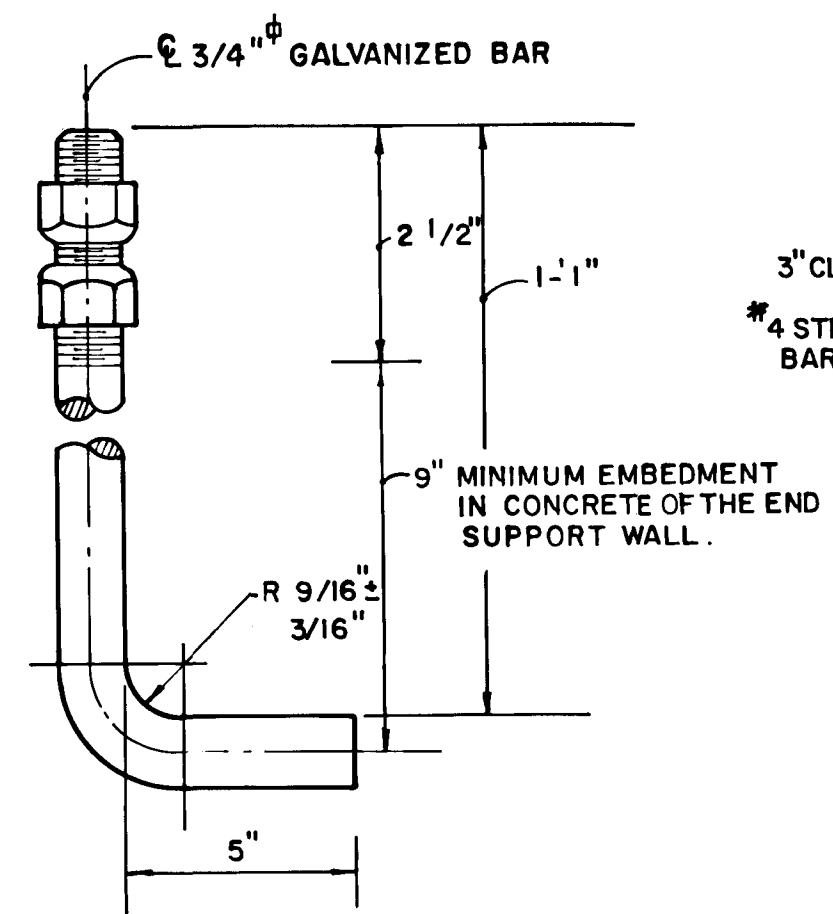
ROAD NAME	CLASSIFICATION	ZONING	STA. LIMITS
THE OLD STATION COURT	CULDESAC	R	0+00-31+76.14
IRON RAIL COURT	CULDESAC	R	0+00-13+70.44



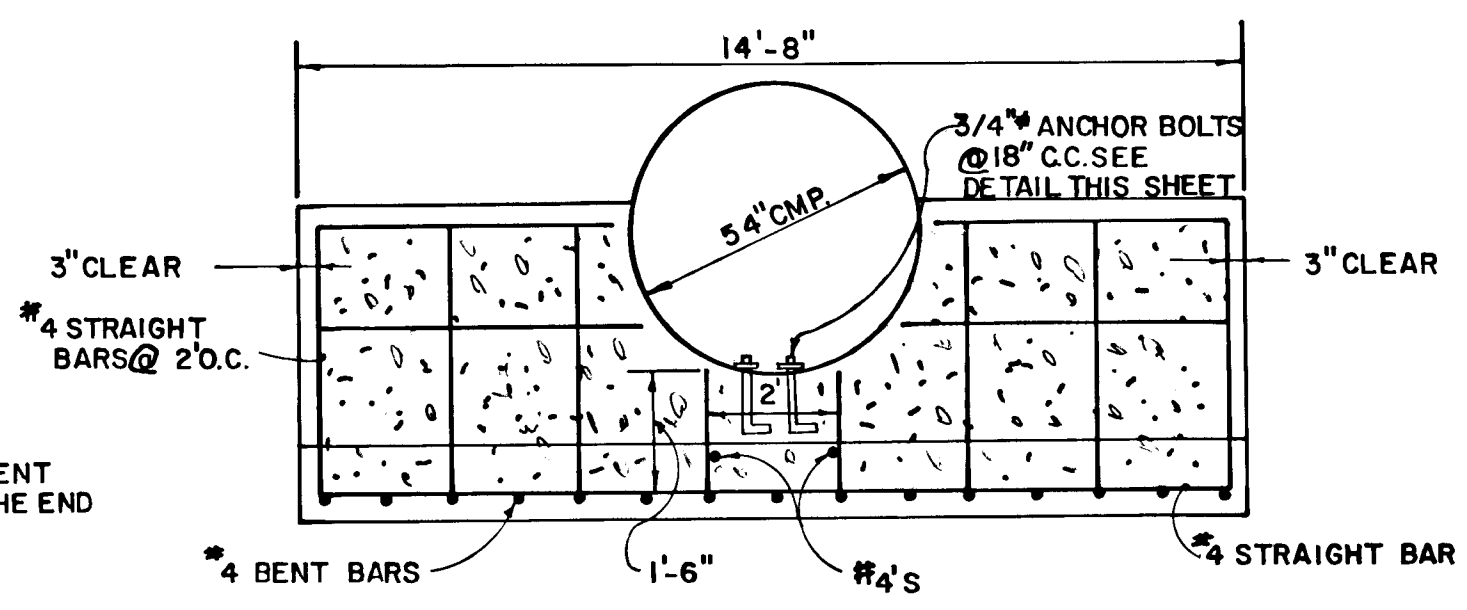
NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

TACK COAT IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX. PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2, DRAWING R-2.01. BASE WILL BE PRIMED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX.

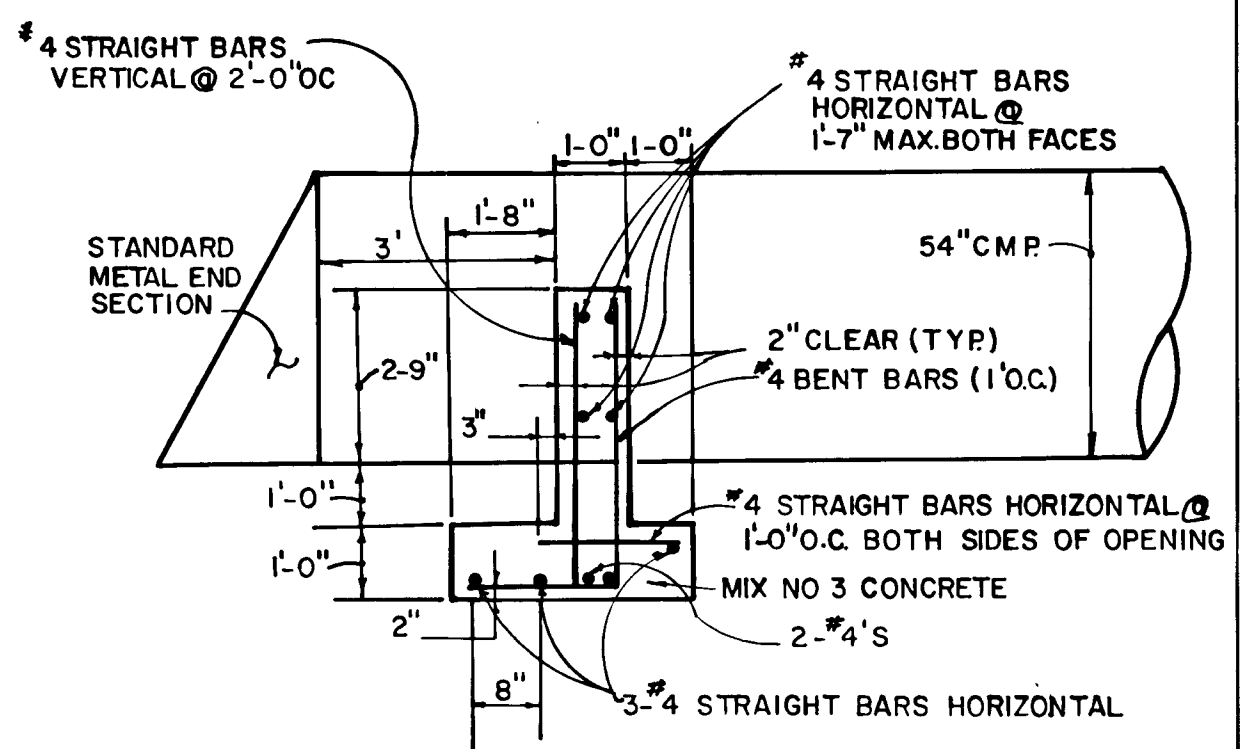
TYPICAL ROADWAY SECTION
NO SCALE



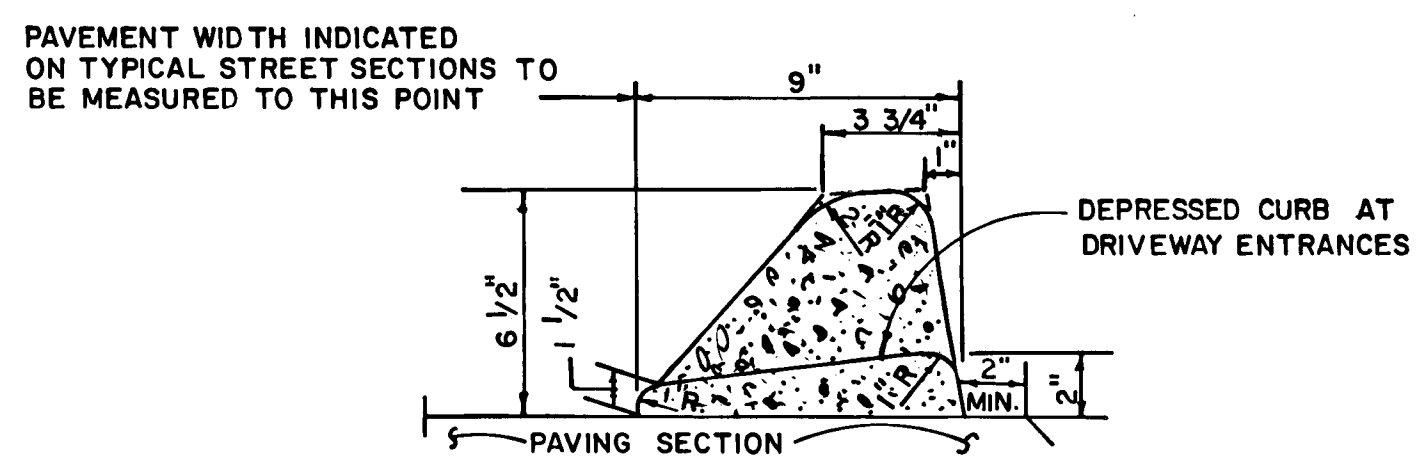
ANCHOR BOLT DETAIL
NO SCALE



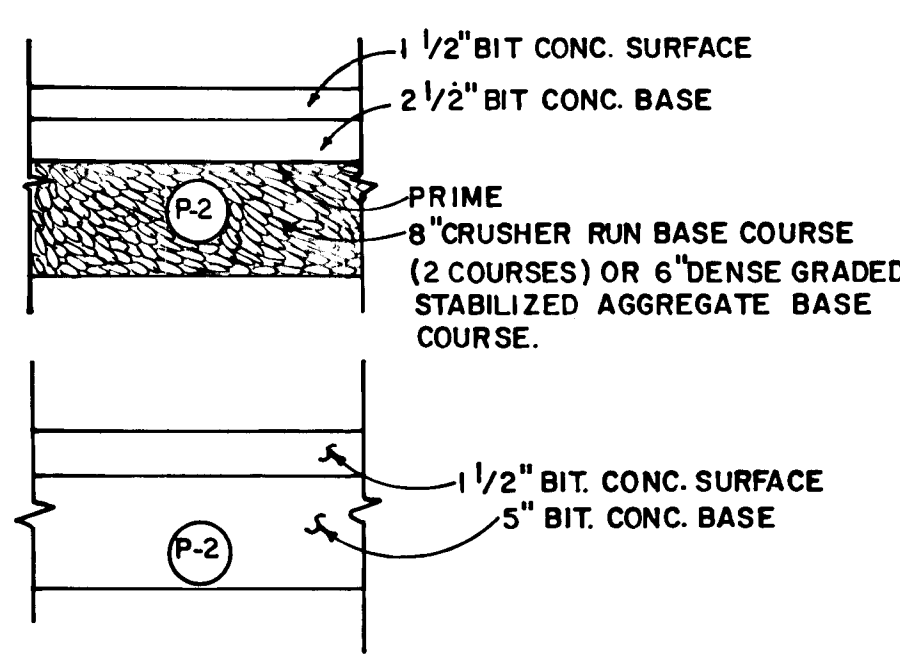
NOTE: REINFORCING STEEL SHALL BE FREE FROM MUD, OIL, OR OTHER NON-METALLIC COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY. BARS SHALL BE SECURELY TIED TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF CONCRETE.



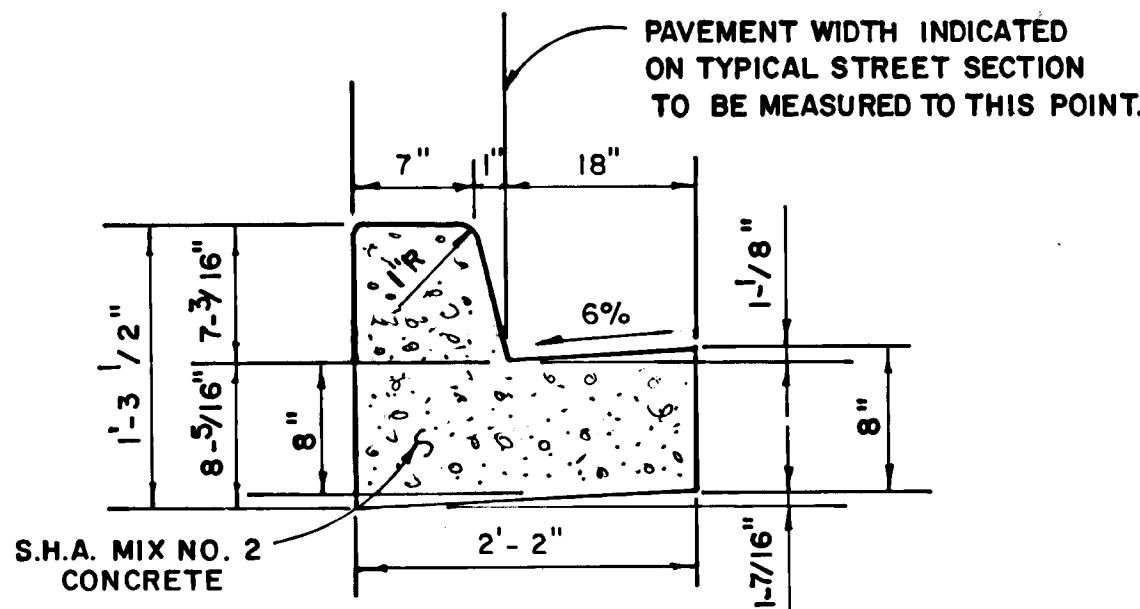
END SUPPORT WALL DETAIL
NO SCALE



STANDARD BITUMINOUS CURB
NO SCALE



PAVING SECTION P-2
NO SCALE



STANDARD 7" COMB. CONC. CURB & GUTTER
NO SCALE

SW. BY	NO.	REVISIONS	DATE
Δ		REVISE LINEAR PROFILE	9-13-89

MORGAN STATION
LOTS 5-42
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

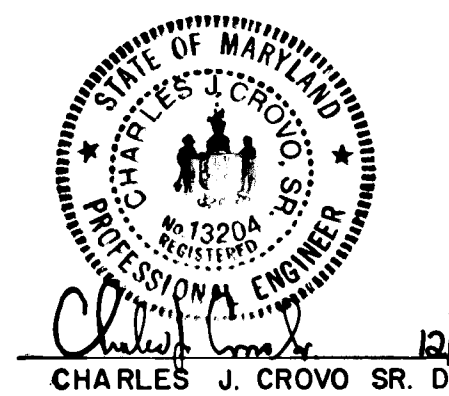
IRON RAIL COURT ROAD SECTIONS
LINEAR PROFILE AND DETAILS

OWNER AND DEVELOPER
HEMPHILL ASSOCIATES
P.O. BOX 15
ELLCOTT CITY MARYLAND 21043

SCALE AS SHOWN DATE OCT 23, 1987 DWG. NO. 5 OF 8
DES. R. ISAACS DRN. S. BOOTH CHK. C. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

AS-BUILT SURVEY CERTIFIED BY
CHARLES J. CROVO, SR. - MD. REG. NO.
13204 ON 9-21-89



DATE	BY	NO.	REVISIONS

APPROVED DEPARTMENT OF PUBLIC WORKS
3/9/88
CHIEF LAND DEVELOPMENT DIVISION

APPROVED DEPARTMENT OF PUBLIC WORKS
3/14/88
CHIEF, BUREAU OF HIGHWAYS

APPROVED DEPARTMENT OF PUBLIC WORKS
3-14-88
CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING
3/14/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

DATE	BY	NO.	REVISIONS

1272

PROF. SURVEYED, ALIGNED, CHECKED, RT. OF WAY CHECKED, STRUCTURE NOTATIONS CHECKED

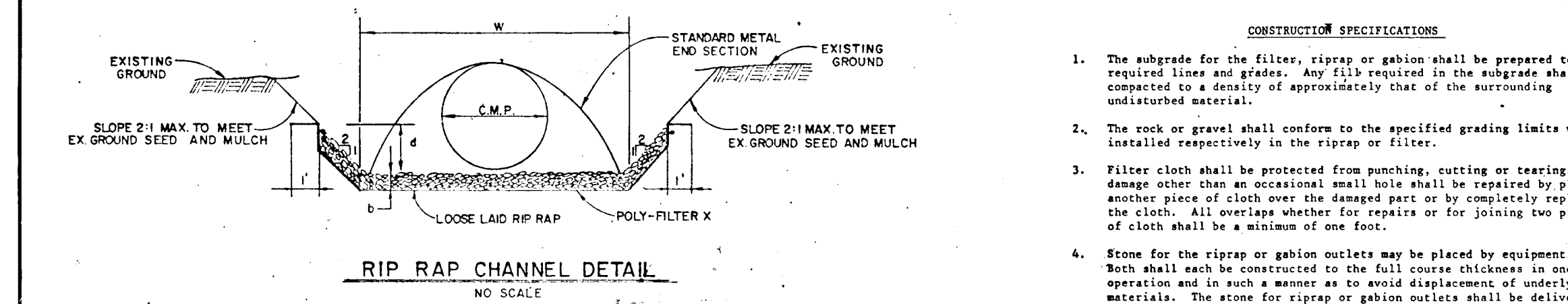
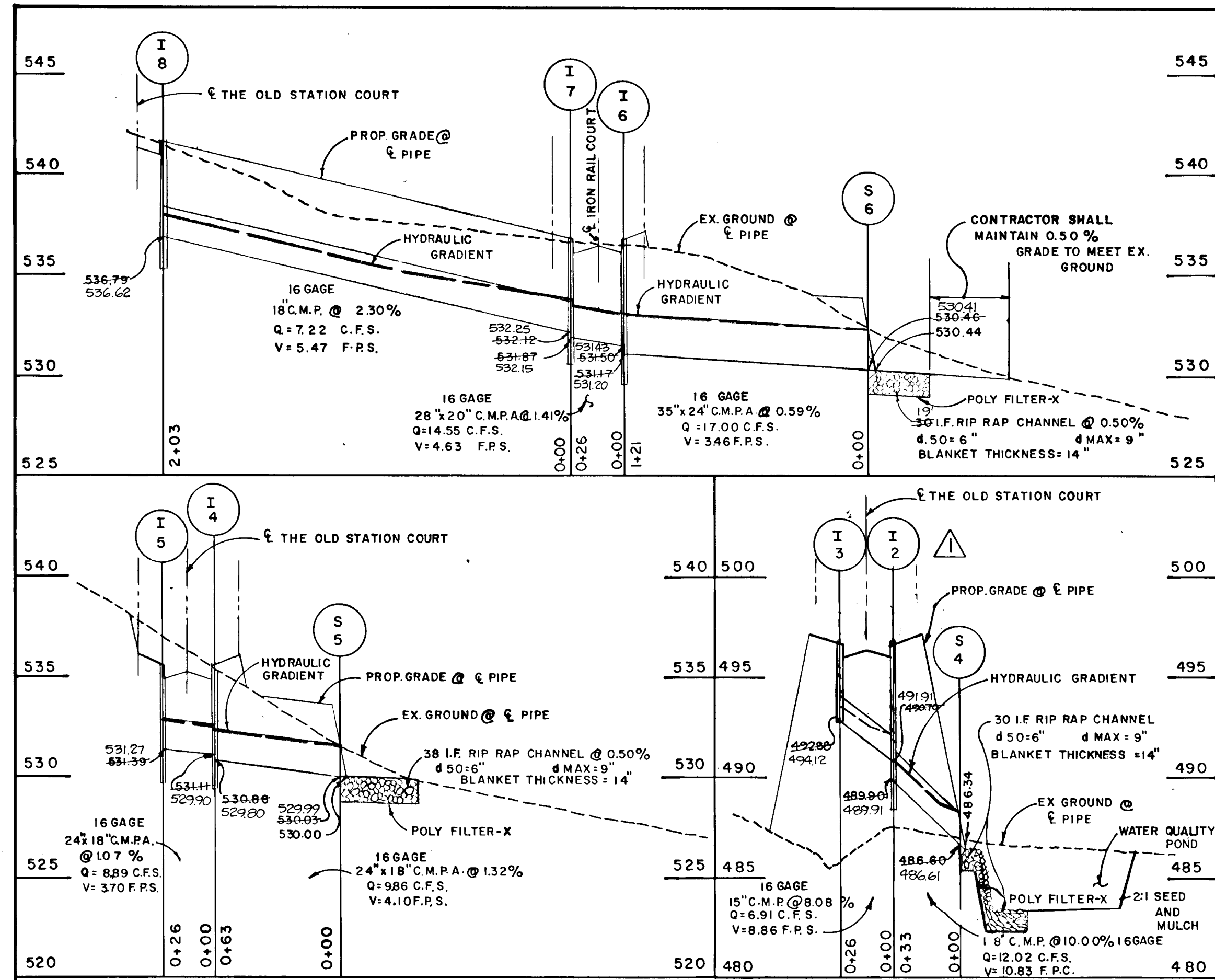
LINEAR PROFILE STA. 0+00 = STA. 13+70.44 T.C. ELEV. = 544.91
LINEAR PROFILE STA. 2+59.69 = STA. 13+70.44 T.C. ELEV. = 544.91

159.69' SPLINE CURVE
EX. GROUND @ CURB LINE
EX. GROUND @ BUILDING RESTRICTION LINE
SUM. STA. 1+69.30 ELEV. = 540.26
SUM. STA. 1+70.44 ELEV. = 540.26

TOP OF CURB GRADE
-3.20%

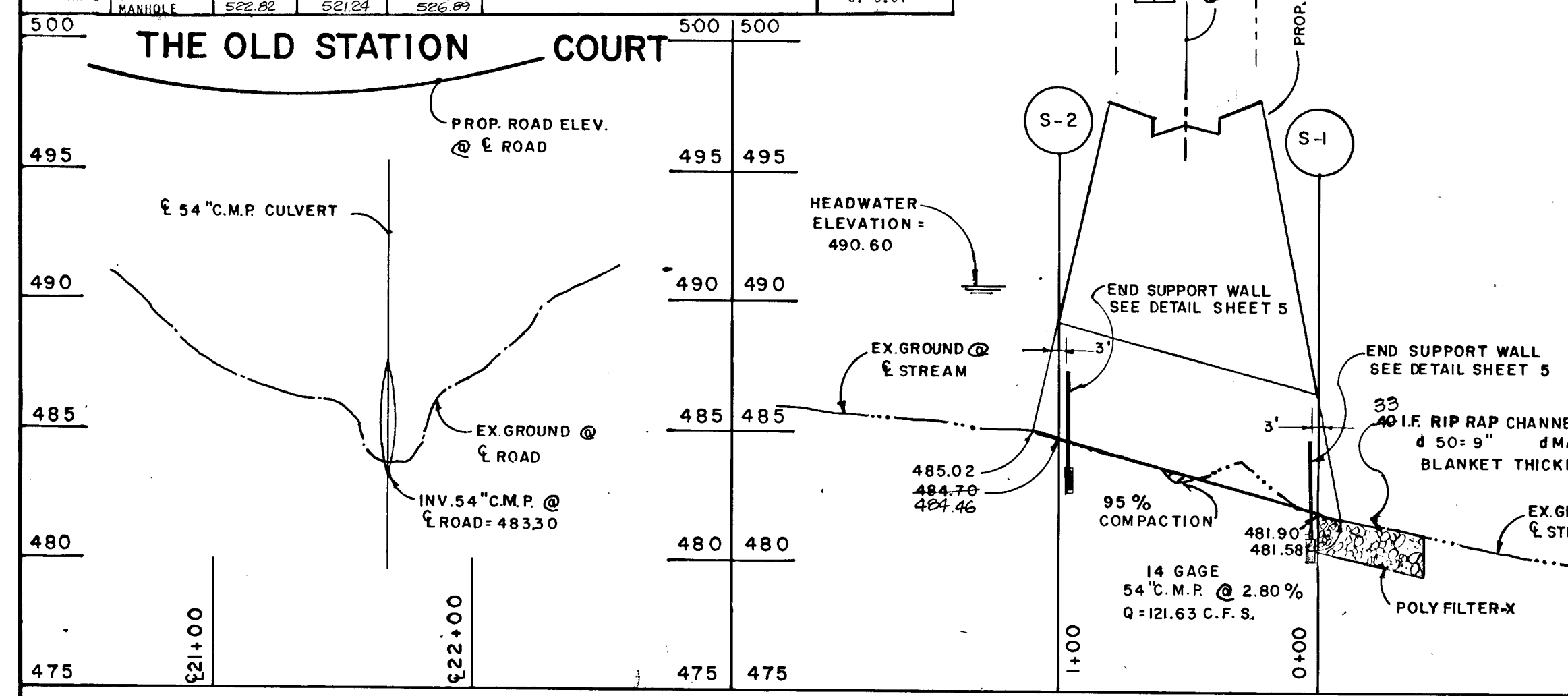
SCALE: 1" = 50' HOR. 1" = 5' VERT.

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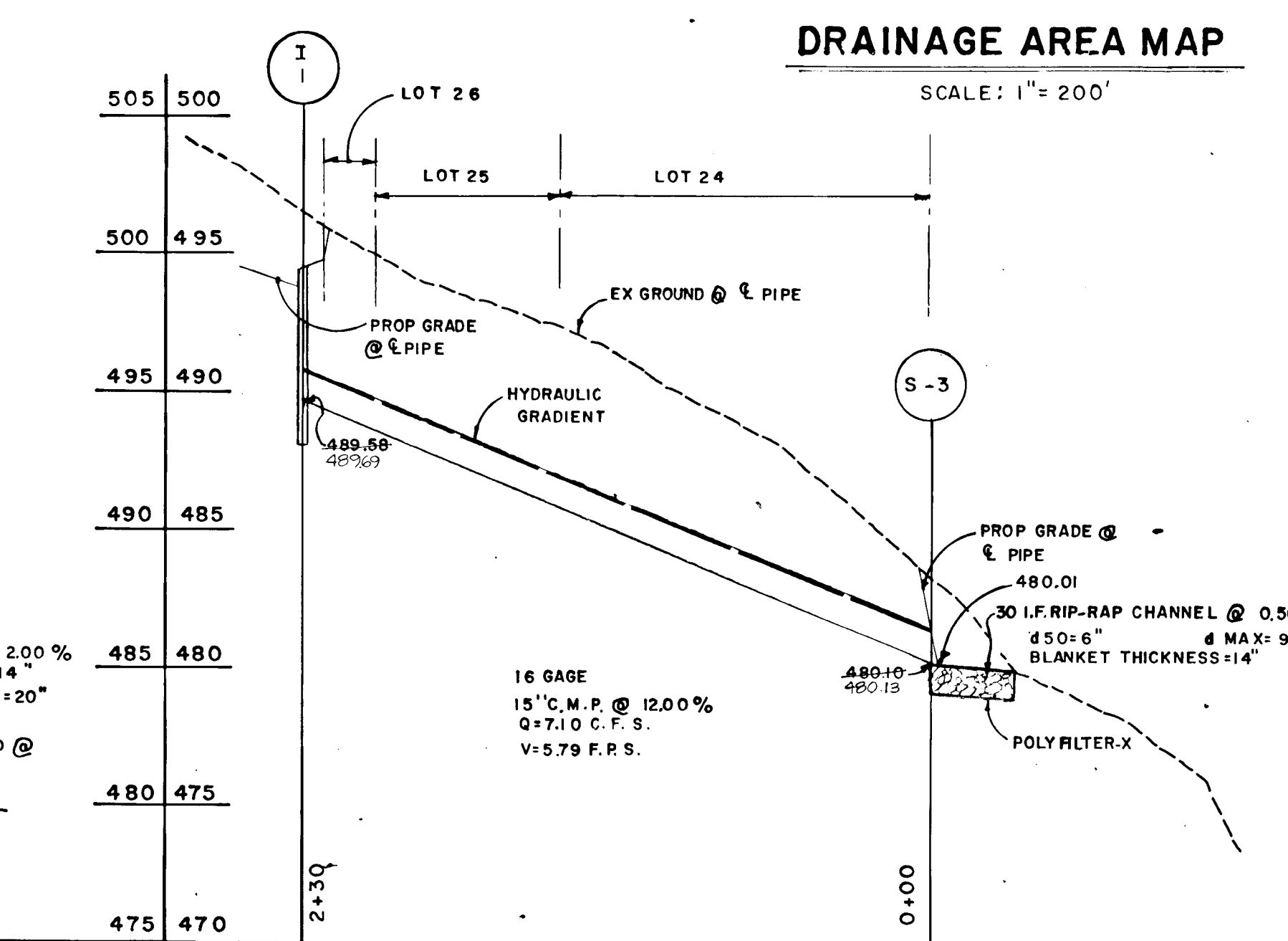
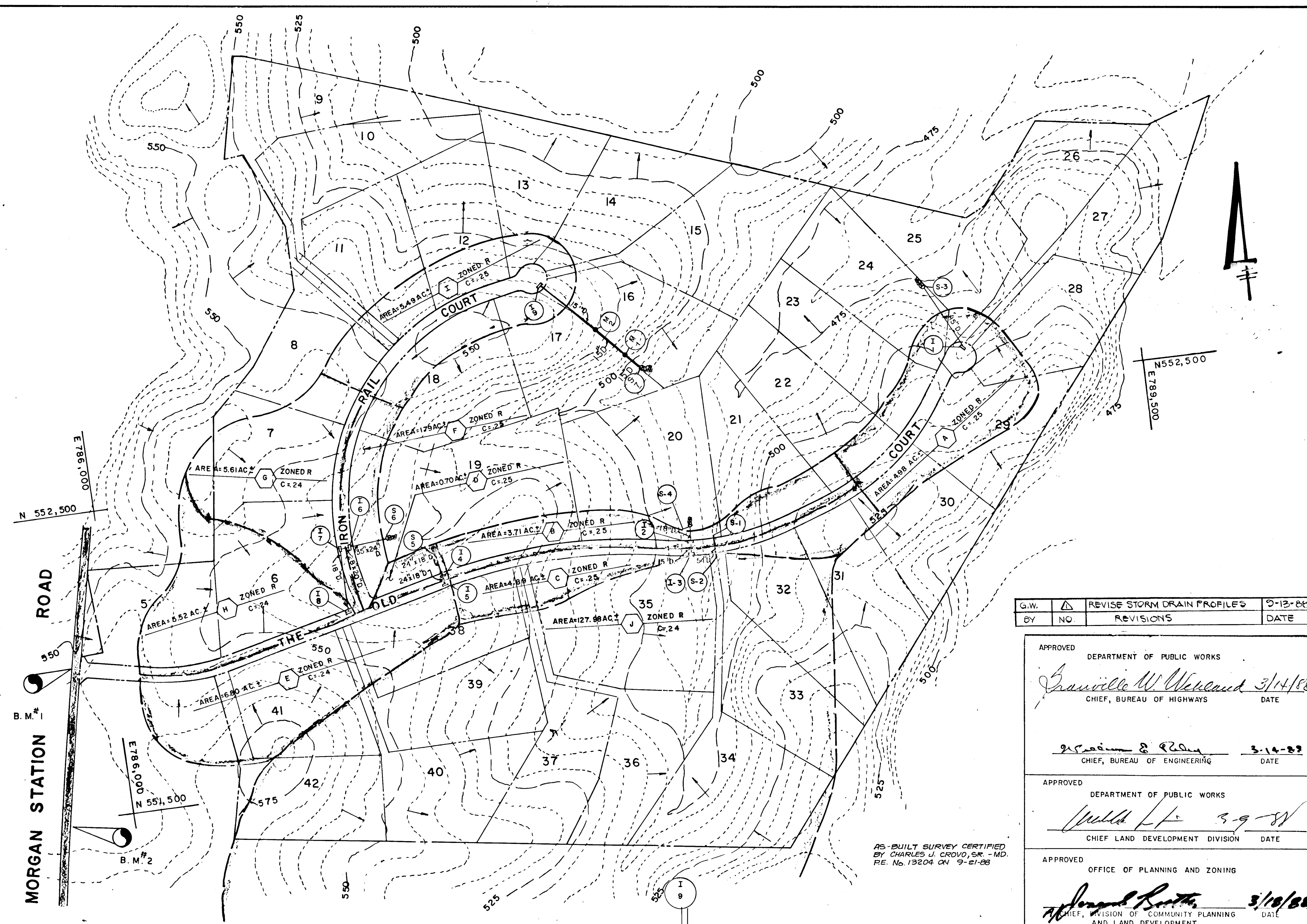


STRUCT.	A	P	R	R	R	S	d	n	Q	V	RIP RAP SIZE	BLANKET THICKNESS
S-3	4.20	7.40	5.670	6.838	0.502	0.707	4.0	0.767	0.4	7.53 C.F.S.	1.80	14"
S-4	6.16	8.79	7.009	7.881	0.502	0.707	4.5	0.881	0.4	16.70 C.F.S.	2.07	14"
S-5	5.28	8.38	6.152	7.222	0.502	0.707	5.0	1.000	0.4	17.00 C.F.S.	2.12	14"
S-6	6.42	11.07	7.221	8.002	0.502	0.707	5.0	1.000	0.4	17.00 C.F.S.	2.12	14"
S-7	3.31	6.82	4.861	5.167	1.000	1.000	4.0	0.637	0.4	7.56 C.F.S.	2.29	14"

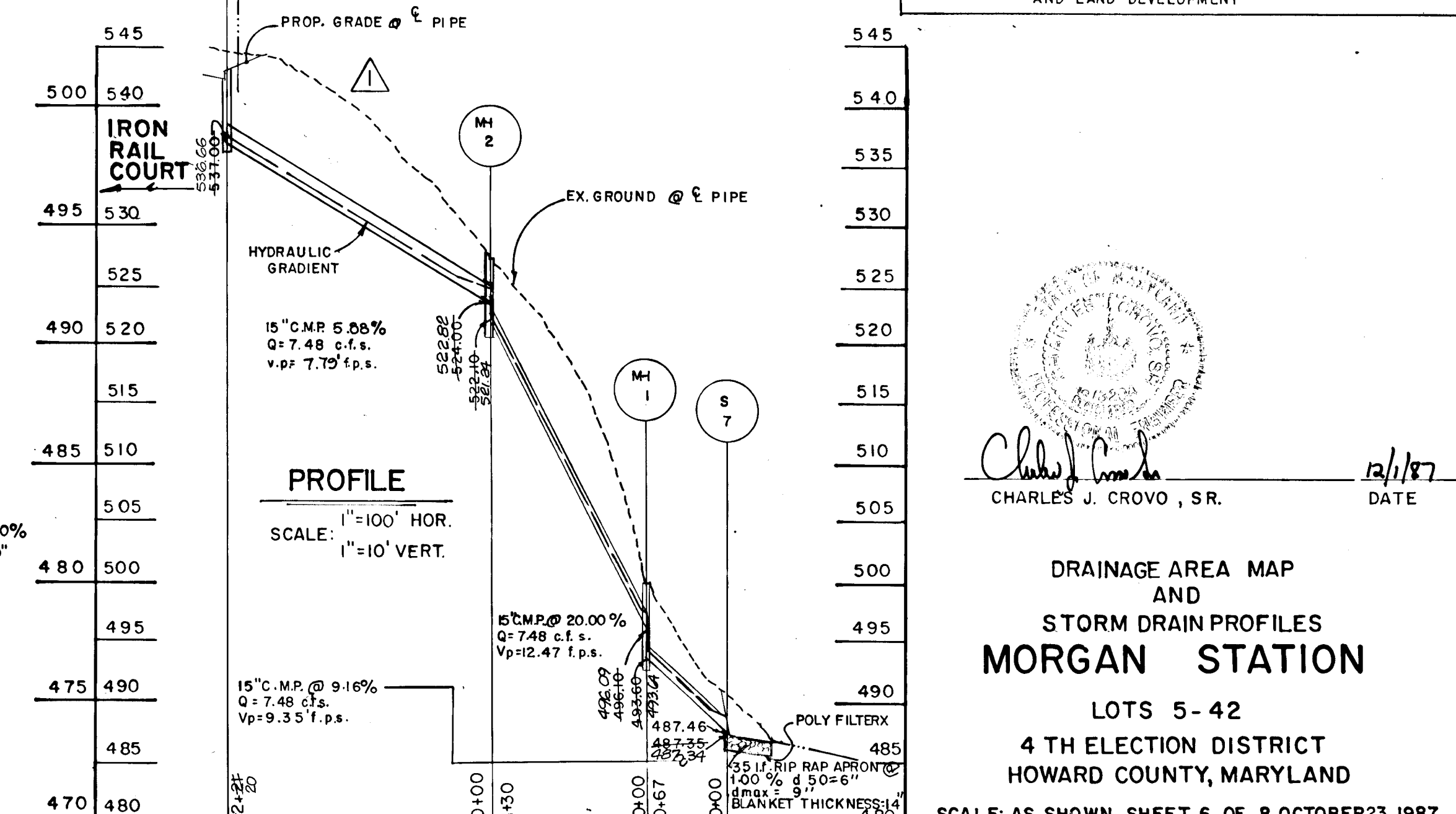
STRUCT.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
S-1	A.S.	450.14	485.80	256.14	1222.82 MH OLD STATION CT.
S-2	A.S.	485.02	484.70	484.70	1222.82 MH OLD STATION CT.
S-3	A.S.	485.02	484.70	484.70	1222.82 MH OLD STATION CT.
S-4	A.S.	485.02	484.70	484.70	1222.82 MH OLD STATION CT.
S-5	A.S.	485.02	484.70	484.70	1222.82 MH OLD STATION CT.
S-6	A.S.	485.02	484.70	484.70	1222.82 MH OLD STATION CT.
S-7	A.S.	485.02	484.70	484.70	1222.82 MH OLD STATION CT.
MH 1	STANDARD MANHOLE	485.02	484.70	484.70	1222.82 MH OLD STATION CT.
MH 2	STANDARD MANHOLE	485.02	484.70	484.70	1222.82 MH OLD STATION CT.



FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043



PROFILES
 SCALE: 1" = 50' HOR.
 1" = 5' VERT.



DRAINAGE AREA MAP AND STORM DRAIN PROFILES
 MORGAN STATION
 LOTS 5-42
 4 TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN SHEET 6 OF 8 OCTOBER 23, 1987

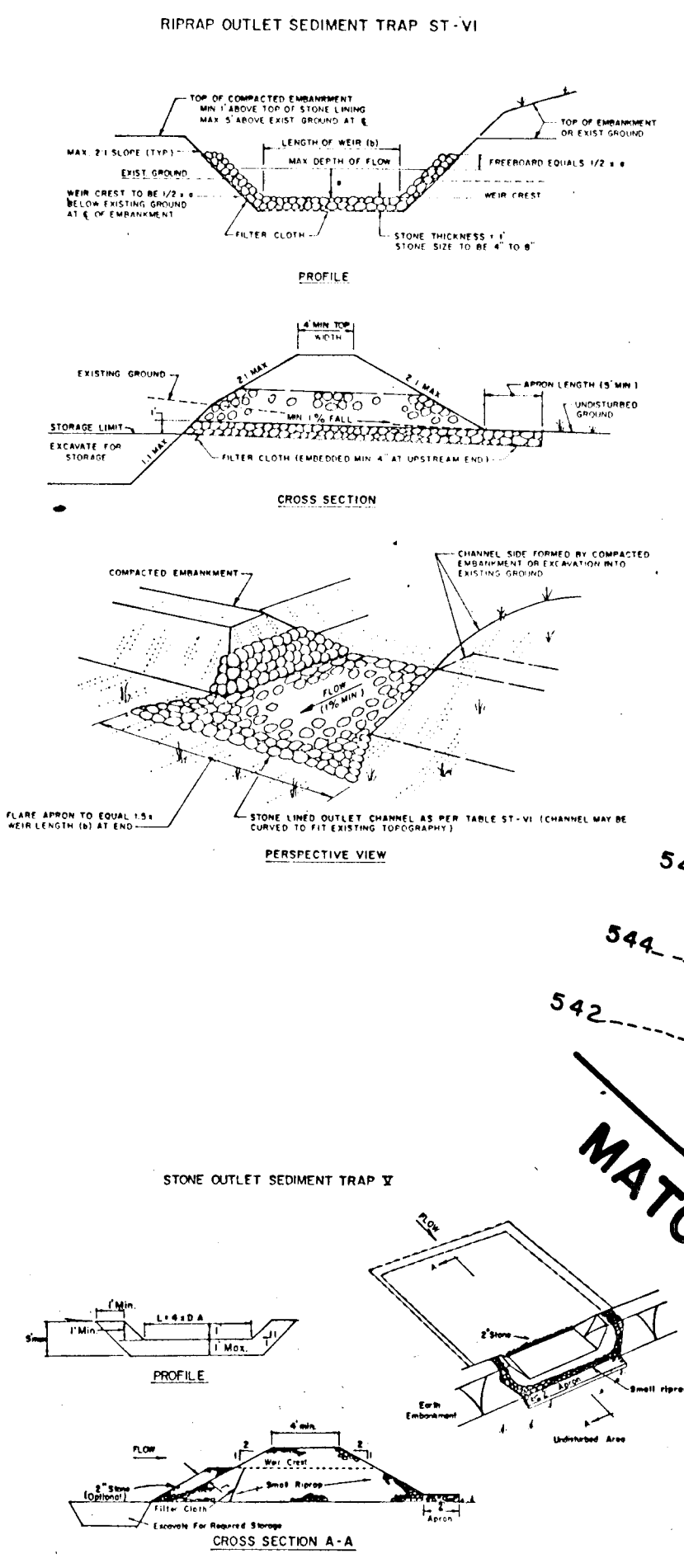
G.W.	REVISION	DATE
BY	NO	REVISIONS

APPROVED
 DEPARTMENT OF PUBLIC WORKS
Granville W. Weiland 3/14/88
 CHIEF, BUREAU OF HIGHWAYS DATE

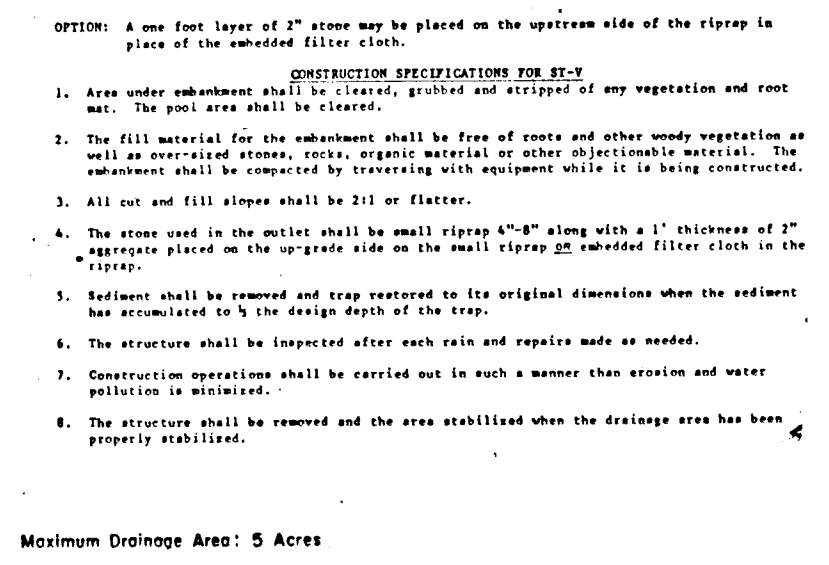
APPROVED
 DEPARTMENT OF PUBLIC WORKS
William E. Quinn 3-14-88
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
 DEPARTMENT OF PUBLIC WORKS
Walter L. ... 3-9-88
 CHIEF LAND DEVELOPMENT DIVISION DATE

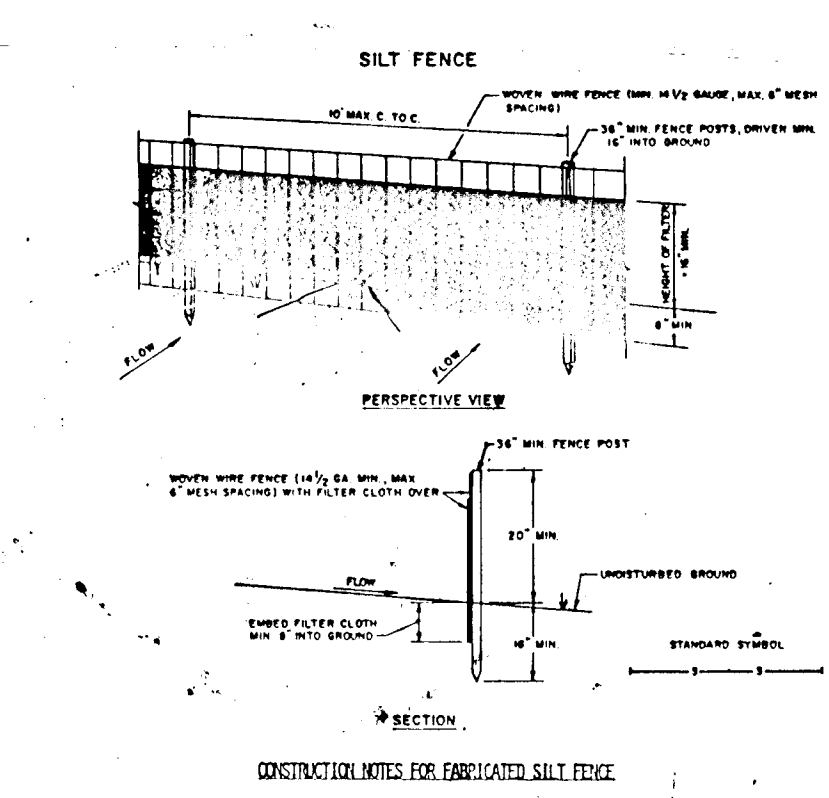
APPROVED
 OFFICE OF PLANNING AND ZONING
Charles J. Crovo, Sr. 3/18/88
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



- CONSTRUCTION SPECIFICATIONS FOR ST-VI**
- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be constructed by excavating with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
 - All fill slopes shall be 2:1 or flatter or slopes 1:1 or flatter.
 - Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
 - Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
 - Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
 - Stones used in the outlet channel shall be four (4) to eight (8) inches (center). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
 - 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. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 - The structure shall be inspected after each rain and repaired as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
 - Drainage area for this practice is limited to 15 acres or less.



- CONSTRUCTION SPECIFICATIONS FOR ST-VI**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be constructed by excavating with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
 - All fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet channel shall be small riprap 4" to 8" with a 1/2" thickness of 2" aggregate placed on the upstream side of the small riprap 20' minimum filter cloth on the riprap.
 - Structure 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 repaired as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



- CONSTRUCTION SPECIFICATIONS FOR SILT FENCE**
- When wire fence is to be fastened securely to stone posts with wire ties, staples, or other fasteners, the fasteners shall be placed on the inside of the fence.
 - Filter cloth to be fastened securely to stone posts with wire ties, staples, or other fasteners. The fasteners shall be placed on the inside of the fence.
 - When the sections of filter cloth are joined together, they shall be overlapped by six (6) inches and fastened with staples or other fasteners.
 - Maintenance shall be performed as needed and material removed from the silt fence.

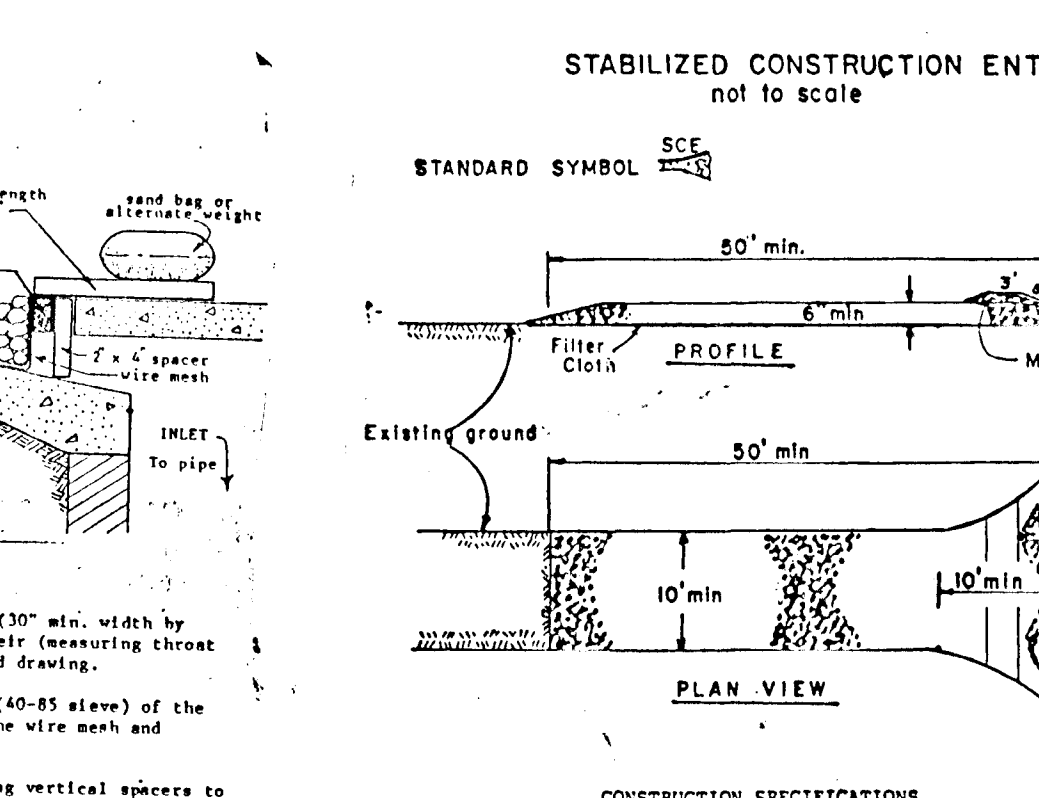
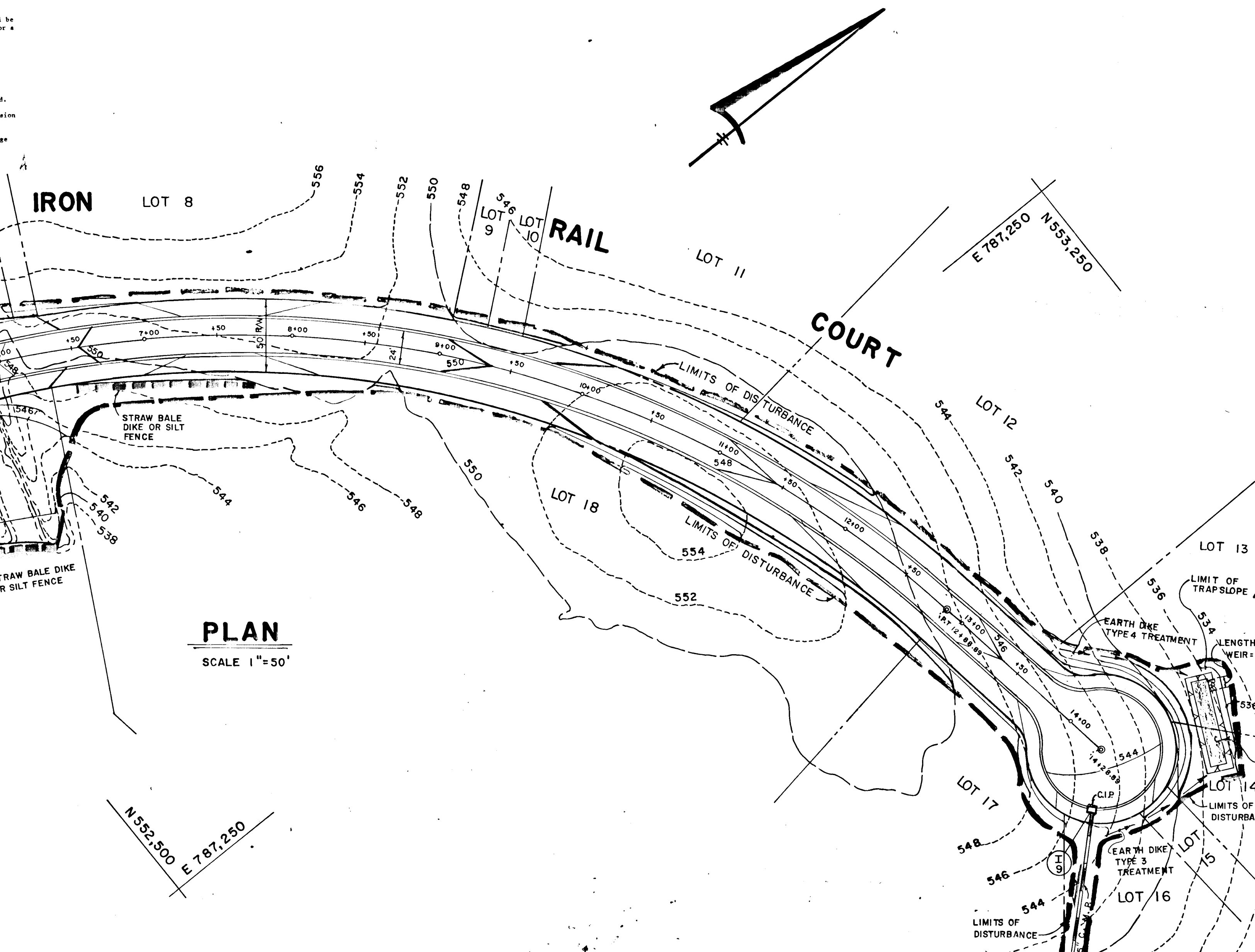
DRAINAGE AREA

DRAINAGE AREA	12.9AC ±
VOLUME REQUIRED	860 CU. YDS.
VOLUME PROVIDED	863 CU. YDS.
TOP DIMENSIONS	41' X 161'
BOTTOM DIMENSIONS	33' X 153'
SIDE SLOPES	1:1
DEPTH	4'
WEIR CREST ELEVATION	529.00
BOTTOM ELEVATION	526.00
CLEANOUT ELEVATION	524.00

STONE OUTLET SEDIMENT TRAP

DRAINAGE AREA	1.74 AC ±
VOLUME REQUIRED	116 CU. YDS.
VOLUME PROVIDED	116 CU. YDS.
TOP DIMENSIONS	18' X 72'
BOTTOM DIMENSIONS	12' X 66'
SIDE SLOPES	1:1
DEPTH	3.0'
WEIR CREST ELEVATION	537.00
BOTTOM ELEVATION	533.00
CLEANOUT ELEVATION	534.50

- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING PERMIT.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT TRAPS AS SHOWN ON PLAN. STABILIZE THE TRAPS WITH TEMPORARY SEEDING.
 - INSTALL STRAW BALE OR SILT FENCE AS SHOWN ON THE PLAN.
 - CONSTRUCT STORM DRAIN SYSTEM AND STABILIZE WITH TEMPORARY SEEDING.
 - GRADE ROADS TO SUBGRADE.
 - CONSTRUCT STORM DRAIN SYSTEM AND INSTALL INLET PROTECTION DEVICE AT INLET 1-9.
 - THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
 - SEDIMENT SHALL BE REMOVED FROM THE TRAPS WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
 - THE SEDIMENT TRAPS SHALL BE DEWATERED BY PUMPING.
 - REMOVE SEDIMENT FROM ROADWAYS AND FRESH STORM CONSTRUCTION ENTRANCE AS REQUIRED.
 - REMOVE INLET PROTECTION DEVICES AND DRESS STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT.
 - REMOVE STONE CONSTRUCTION ENTRANCE AND STRAW BALE/SILT FENCE, CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
 - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL STRUCTURES SHALL BE GRABBED AND STABILIZED BY PERMANENT SEEDING.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 42 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; 42 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - COMPLETE STABILIZATION OF ALL DISTURBED AREAS SHALL BE DONE PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL STRUCTURES.
 - FINAL HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR EROSION INSPECTION AT DURATION OF PROJECT.



- STABILIZED CONSTRUCTION ENTRANCE**
not to scale
- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 3" stone, or recycled 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 occur.
 - 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 applied, 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 which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

- PERMANENT SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:
- 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 KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF KEEPING 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 500. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW. MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS MULCH 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
- TEMPORARY SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
- SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 25 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF KEEPING 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 500.
- MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS MULCH 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 FT. 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.

- SEEDMENT CONTROL NOTES:**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (892-2437).
 - 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 REDISTURBANCE, 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, SIGNAGE.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED HEREON IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51) AND TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:

TOTAL AREA OF SITE	138.09 ACRES
AREA DISTURBED	2.80 ACRES
AREA TO BE ROOFED OR PAVED	2.80 ACRES
AREA TO BE VEGETATIVELY STABILIZED	6.99 ACRES
TOTAL CUT	16,000 CU. YDS.
TOTAL FILL	16,000 CU. YDS.
 - ON-SITE WASTE/BORROW AREA LOCATION FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY OR CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY.
 - ADDITIONAL SEDIMENT CONTROL MEASURES MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - APPROVAL OF 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 CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING. INSPECTION APPROVALS MUST BE OBTAINED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

ENGINEER'S CERTIFICATE

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

Charles J. Crovo 12/18/87
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

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

Stephen L. Miller 3/4/88
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS.

James H. Hahn 3-4-88
U.S. SOIL CONSERVATION DISTRICT DATE

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

APPROVED: *Stephen L. Miller* 3/4/88
DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: *James H. Hahn* 3/10/88
OFFICE OF PLANNING AND ZONING DATE

APPROVED: *James H. Hahn* 3/10/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: *James H. Hahn* 3/10/88
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DATE

APPROVED: *James H. Hahn* 3/10/88
Land Development Division DATE

APPROVED: *James H. Hahn* 3/10/88
Chief, Bureau of Highways DATE

APPROVED: *James H. Hahn* 3/10/88
Chief, Bureau of Engineering DATE

OWNER AND DEVELOPER

HEMPHILL ASSOCIATES
P.O. BOX 15
ELLCOTT CITY MARYLAND 21043

GRADING AND SEDIMENT CONTROL PLAN

MORGAN STATION

LOTS 5-42
4 TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN SHEET 8 OF 8 OCTOBER 23, 1987

Charles J. Crovo 12/18/87
CHARLES J. CROVO SR. DATE

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FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855