

HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS

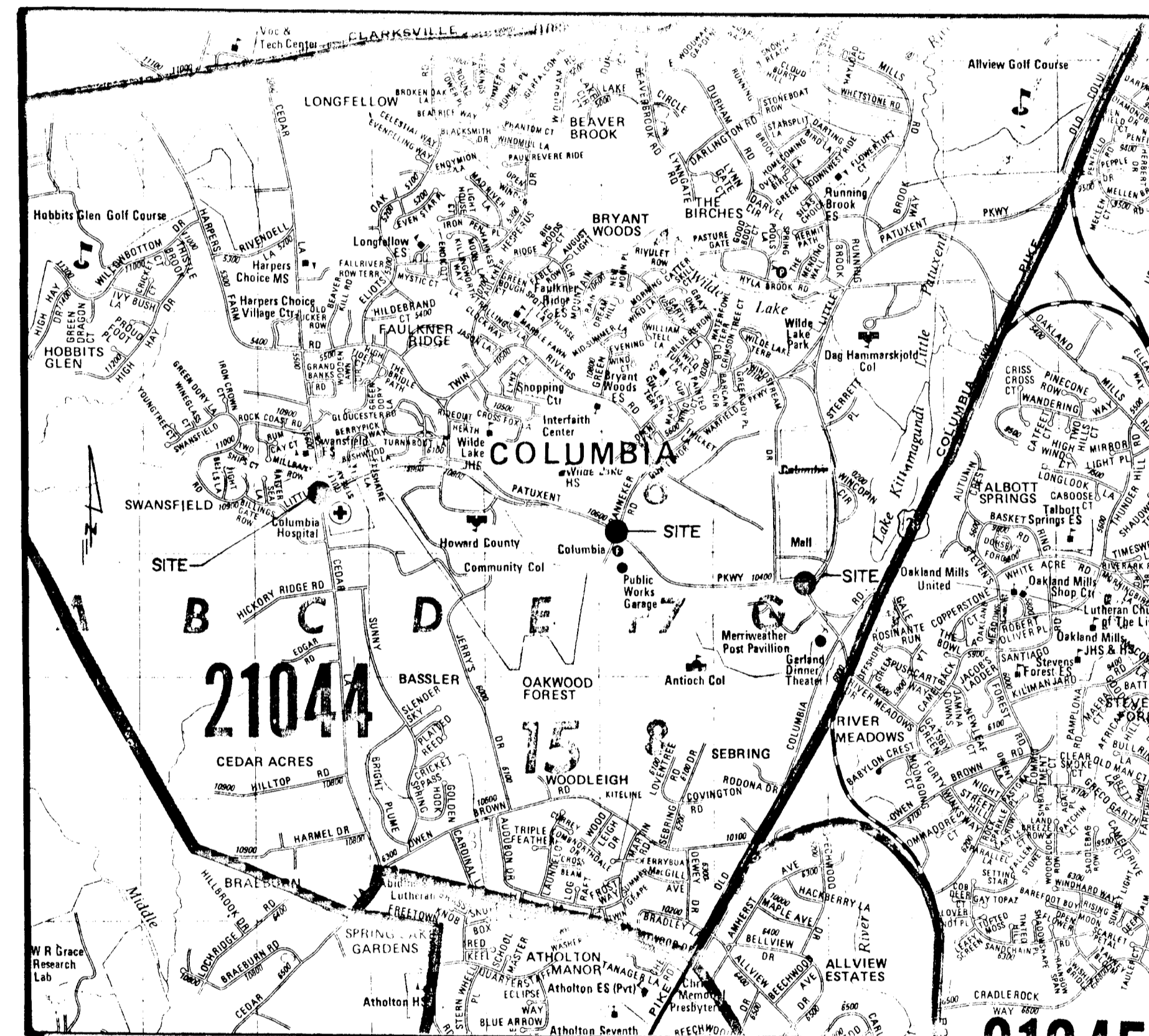
INDEX OF DRAWINGS

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LITTLE PATUXENT PARKWAY  
INTERSECTION IMPROVEMENT  
CAPITAL PROJECT NO. T-7033

GENERAL NOTES

1. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ON THE PLANS ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION. NEITHER THE ENGINEER NOR THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WARRANT OR GUARANTEE THE COMPLETENESS OR CORRECTNESS OF THE INFORMATION SHOWN.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ALL DRIVEWAYS DAMAGED AS A RESULT OF HIS CONSTRUCTION ACTIVITIES.
4. TREES, SHRUBS, AND BUSHES ARE TO BE PROTECTED TO THE MAXIMUM EXTENT POSSIBLE. TREES, SHRUBS, BUSHES, MAILBOXES, FENCES, AND ROADWAY SIGNS WHICH INTERFERE WITH ROADWAY INSTALLATION AND RELATED GRADING ACTIVITIES SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
5. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
6. PERFORMANCE OF WORK SHALL CONFORM TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. WHERE SPECIFIED ON THE PLANS OR STIPULATED IN THE SPECIFICATIONS THE WORK SHALL CONFORM TO THE STATE HIGHWAY ADMINISTRATION BOOK TITLED "SPECIFICATIONS FOR MATERIALS, HIGHWAYS AND INCIDENTAL STRUCTURES."
7. REFERENCE MADE TO STANDARD DRAWINGS REFER TO THE STANDARDS BOUND IN THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, UNLESS OTHERWISE SPECIFIED. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE STANDARD DETAILS IN HIS POSSESSION ARE LATEST REVISED STANDARDS UP TO THE DATE OF THE ADVERTISEMENT OF THIS CONTRACT.
8. ALL HORIZONTAL CONTROLS AND COORDINATES SHOWN ARE BASED ON THE MARYLAND STATE COORDINATE SYSTEM.
9. ONLY THOSE BENCHMARKS SHOWN ON THE PLAN INDICATED BY THE SYMBOL SHALL BE USED FOR CONSTRUCTION.
10. STOPPING SIGHT DISTANCE FOR VERTICAL CREST CURVES SHOWN AS (SSD=400) ON PLANS IS BASED ON HEIGHT OF EYE BEING 3.50 FEET ABOVE THE ROAD SURFACE SIGHTING AN OBJECT 6 INCHES HIGH.
11. ALL LAWNS DISTURBED BY CONSTRUCTION SHALL BE SODDED. ALL OTHER SHALL BE REPAIRED BY TOPSOIL, SEEDING, AND MULCHING.
12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS SO AS NOT TO DISTURB THE EXISTING VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION. SOIL STABILIZATION WILL CONFORM TO USDA SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS."
13. THE CONTRACTOR SHALL SUBMIT HIS SCHEDULE OF CONSTRUCTION AND PLAN FOR MAINTENANCE OF TRAFFIC TO HOWARD COUNTY BEFORE GRADING OR EXCAVATING OPERATIONS ARE INITIATED. THESE CONSTRUCTION AND TRAFFIC MAINTENANCE SCHEDULES SHALL BE DEVELOPED SO AS TO MAINTAIN TWO (2) LANES OF TRAFFIC AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES AND SIGNS.
14. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AT LEAST THREE (3) DAYS PRIOR TO BEGINNING CONSTRUCTION OF THIS PROJECT.  
HOWARD COUNTY FIRE DEPARTMENT 992-2311  
HOWARD COUNTY POLICE DEPARTMENT 992-2222  
MISS UTILITY 559-0100  
STATE HIGHWAY ADMINISTRATION 531-5533  
CHESAPEAKE & POTOMAC TELEPHONE COMPANY 795-1390



LOCATION MAP  
SCALE: 1" = 2000'

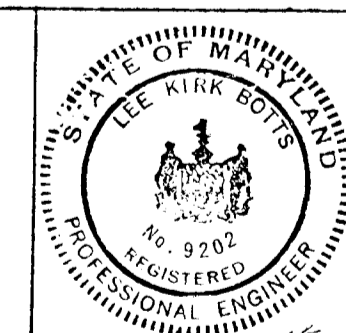
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT  
Howard S.C.D. \_\_\_\_\_ Date \_\_\_\_\_

Sediment Control to be executed in accordance with Article 15 of the Howard County Design Manual, Volume IV, "Standard Specifications and Details".

Reviewed for \_\_\_\_\_ S.C.D. Name \_\_\_\_\_ and meets Technical Requirements.  
U.S. Soil Conservation Service Date \_\_\_\_\_

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."  
William E. Riley, Chief Bureau of Engineering Date \_\_\_\_\_

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.  
Lee K. Botts, P.E. Date 8-8-95



RECEIVED  
AUG 15 1995  
ROADS, BRIDGES, STORM DRAINAGE  
BUREAU OF ENGINEERING

REVISIONS

NO.	DESCRIPTION

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
DIRECTOR OF PUBLIC WORKS DATE CHIEF - BUREAU OF ENGINEERING DATE  
CHIEF - ROADS, BRIDGES, STORM DRAINAGE DIVISION DATE

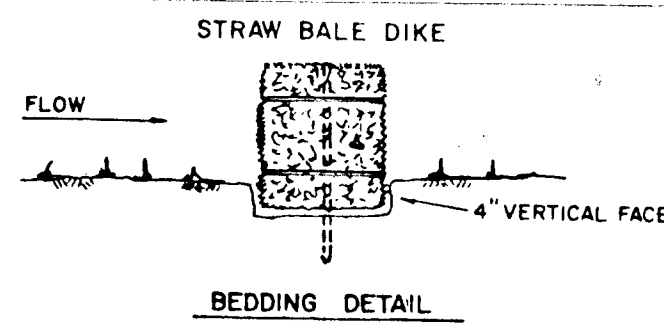
PROGRESSIVE ENGINEERING CONSULTANTS  
ENGINEERS PLANNERS SURVEYORS  
LAUREL, MARYLAND

TITLE SHEET

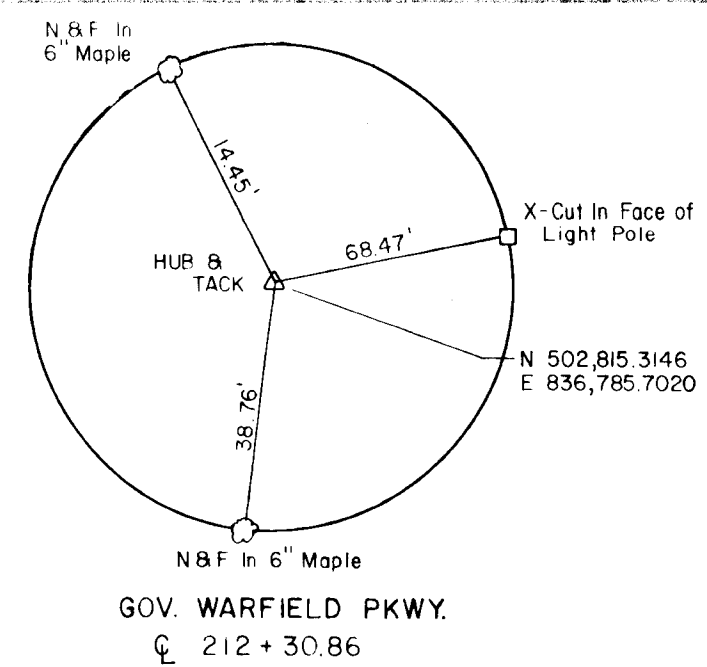
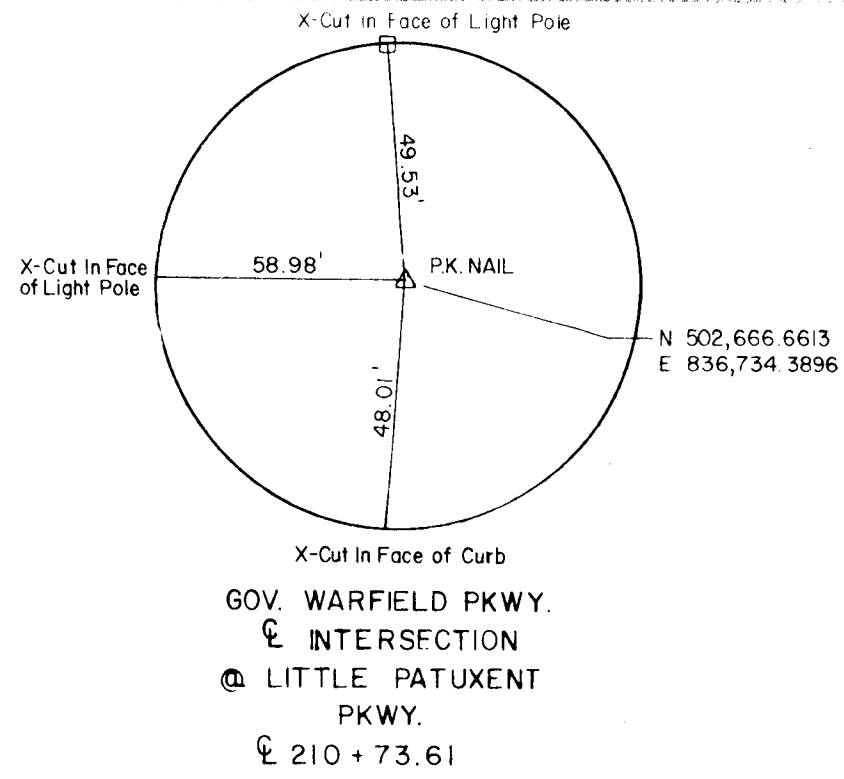
LITTLE PATUXENT PARKWAY  
INTERSECTION IMPROVEMENTS  
CAPITOL PROJECT NO. T-7033  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

DRAWING NO. 1 OF 3  
SCALE AS SHOWN  
L.K.B. DESIGNED  
A.D.G. DRAFTED  
L.K.B. CHECKED

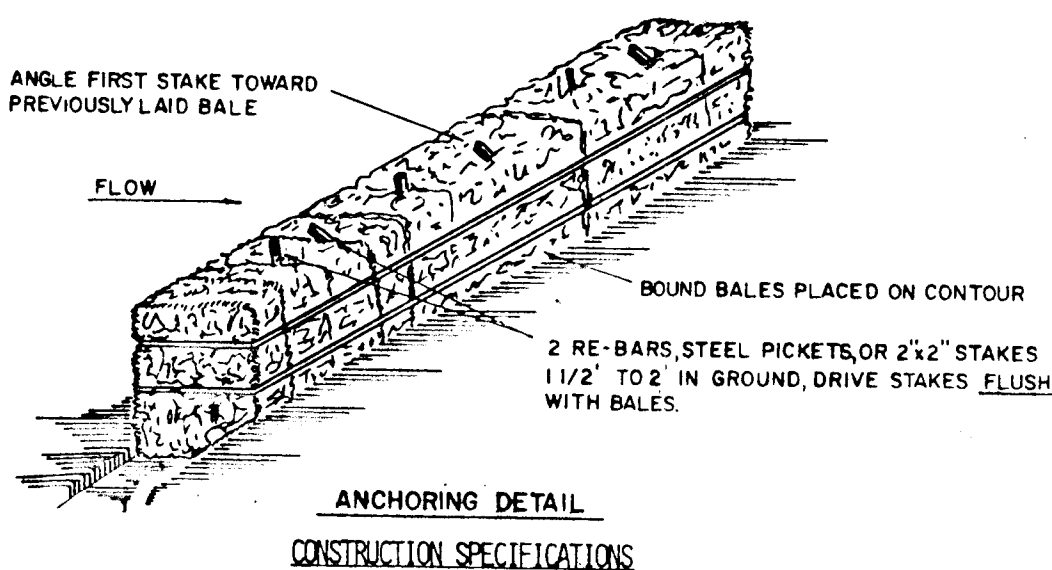
C794E201



FLOW LINE ELEVATIONS		
STA	WIDENING WIDTH ±	ELEVATIONS
PC 0+0		403.20 EX.
0+20		403.25
PRC 0+36.85		403.25
0+60		403.16
PT 0+81.84		403.07
1+00		403.00
PC 1+27.89		402.89
1+40		402.84
1+60		402.76
1+80		402.68
2+00		402.60
PT 2+28.94		402.50



STANDARD SYMBOL  
SBD



- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

STRAW BALE DIKE

STANDARD DRAWING  
SBD-1

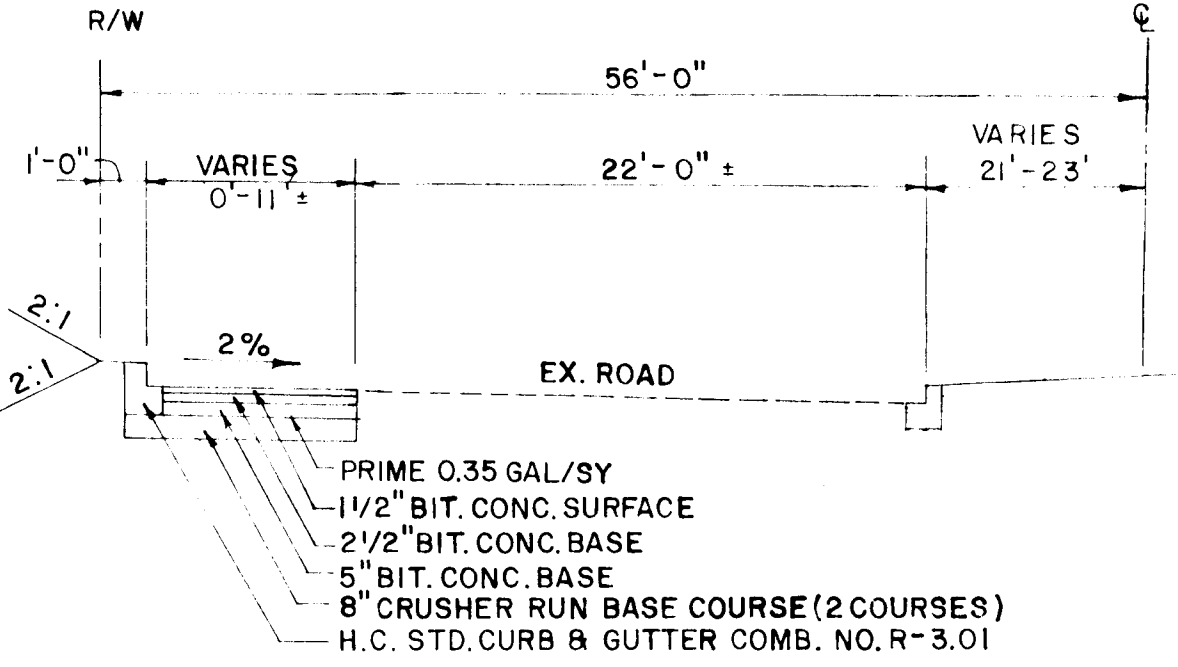
SEDIMENT CONTROL NOTES

- 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.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector
- Site Analysis:
 

Total Area of Site	NA Acres
Area Disturbed	0.12 Acres
Area to be roofed or paved	0.10 Acres
Area to be vegetatively stabilized	0.02 Acres
Total Cut	205 Cu. yds
Total Fill	0 Cu. yds
Offsite waste/borrow area location	AS DIRECTED

STRIPING LEGEND

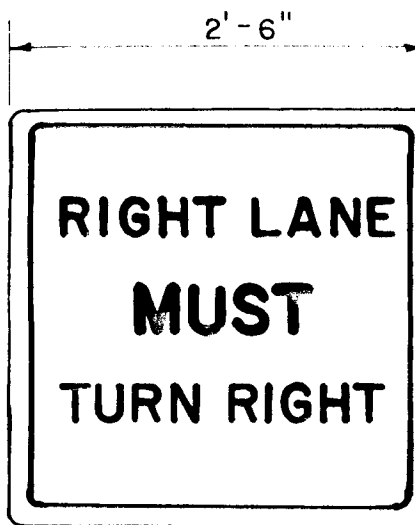
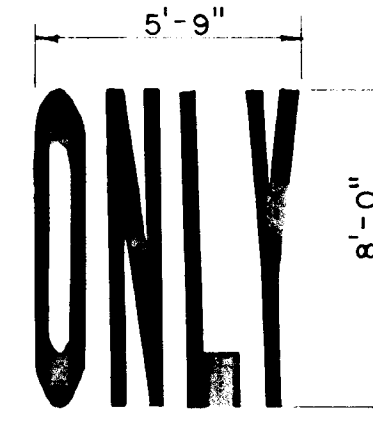
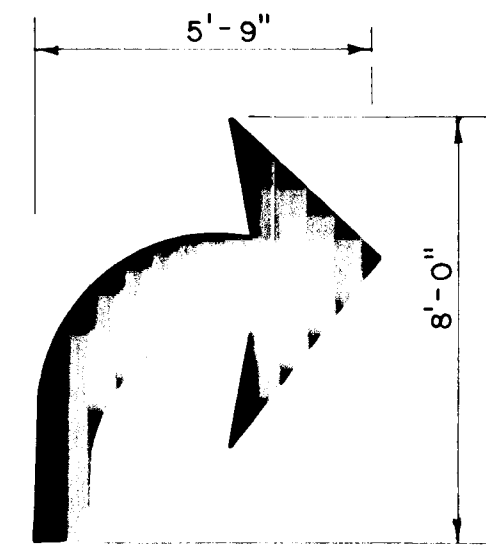
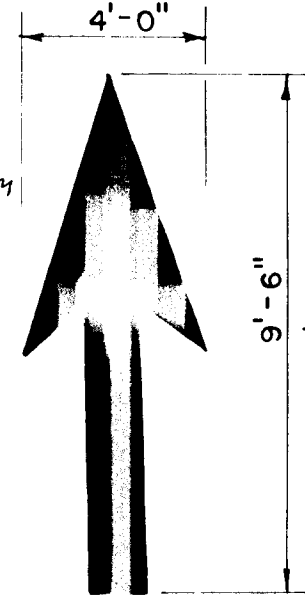
- LANE STRIPE WHITE  
4" W X 12" LONG @ 30' INTERVALS
- LANE DROP LINE - WHITE  
8" W X 3" LONG @ 12' INTERVALS
- GORE AREA - WHITE  
4" W STRIPES @ 4' INTERVALS



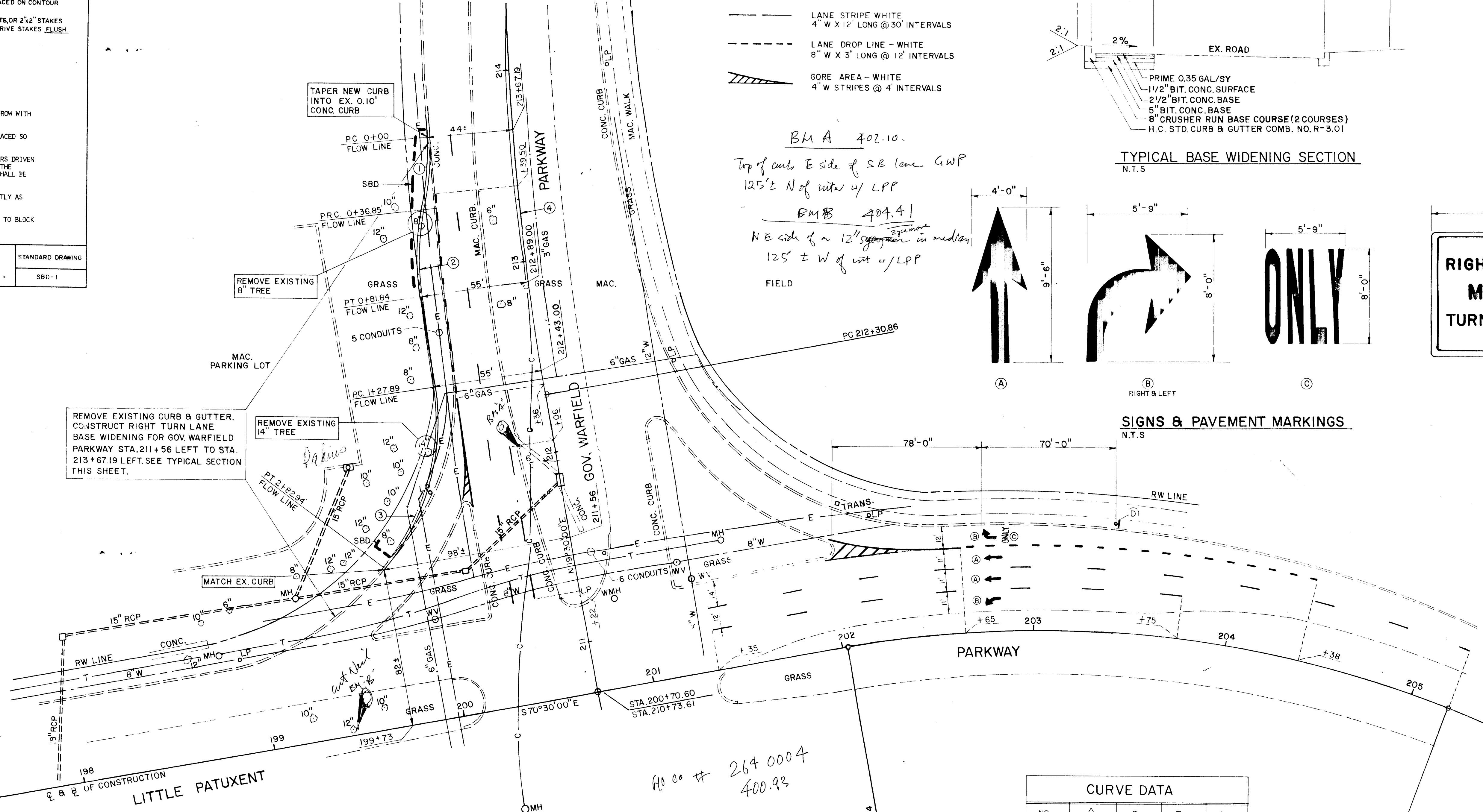
TYPICAL BASE WIDENING SECTION  
N.T.S.

BMA 402.10.  
Top of curb E side of SB lane GWP  
125' ± N of inter w/ LPP

BMB 404.41  
NE side of a 12" stream in median  
125' ± W of inter w/ LPP



SIGNS & PAVEMENT MARKINGS  
N.T.S.



PLAN  
SCALE: 1" = 30'-0"

CURVE DATA				
NO.	Δ	R	T	L
1	14°04'34"	150.00'	18.52'	36.85'
2	17°12'14"	150.00'	22.69'	45.04'
3	48°15'00"	120.00'	53.74'	101.05'
4	03°07'40"	1432.39'	39.11'	78.19'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS \_\_\_\_\_ DATE \_\_\_\_\_  
CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_  
CHIEF, DIV. OF RD, BR. & S.D. \_\_\_\_\_ DATE \_\_\_\_\_

PROGRESSIVE ENGINEERING  
CONSULTANTS

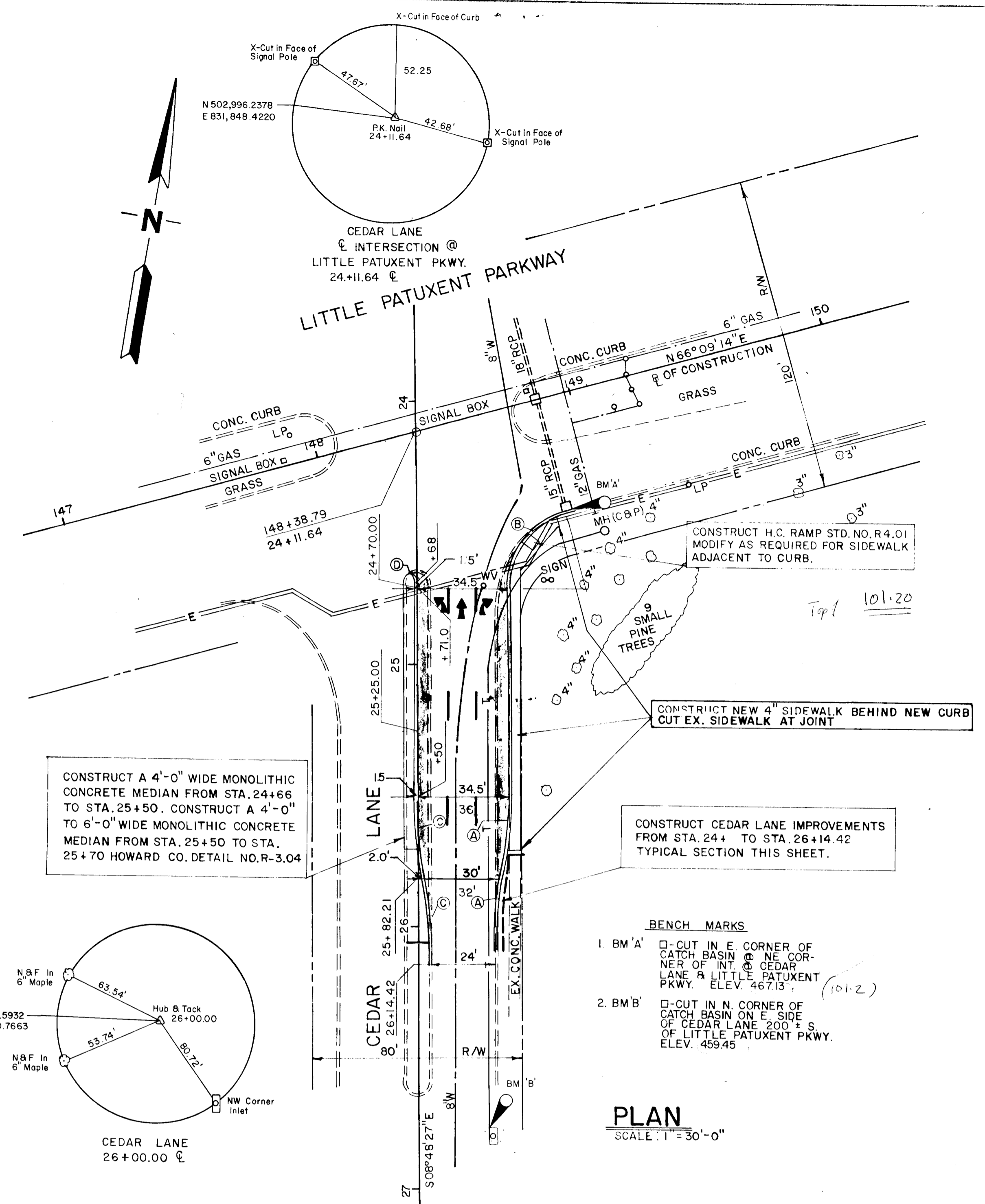
14333 LAUREL-BOWIE ROAD, SUITE 108  
LAUREL, MARYLAND 20708  
(301) 621-1050 (Wash.), (301) 792-8632 (Balt.)

DES: I.H.				
DRN: A.D.G.				
CHK: L.K.B.				
DATE: MAY, 85	BY	NO.	REVISION	DATE

PLAN  
LITTLE PATUXENT PARKWAY  
&  
GOVERNOR WARFIELD PARKWAY

LITTLE PATUXENT PARKWAY  
INTERSECTION IMPROVEMENT  
CAPITOL PROJECT NO. T-7033  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY MARYLAND

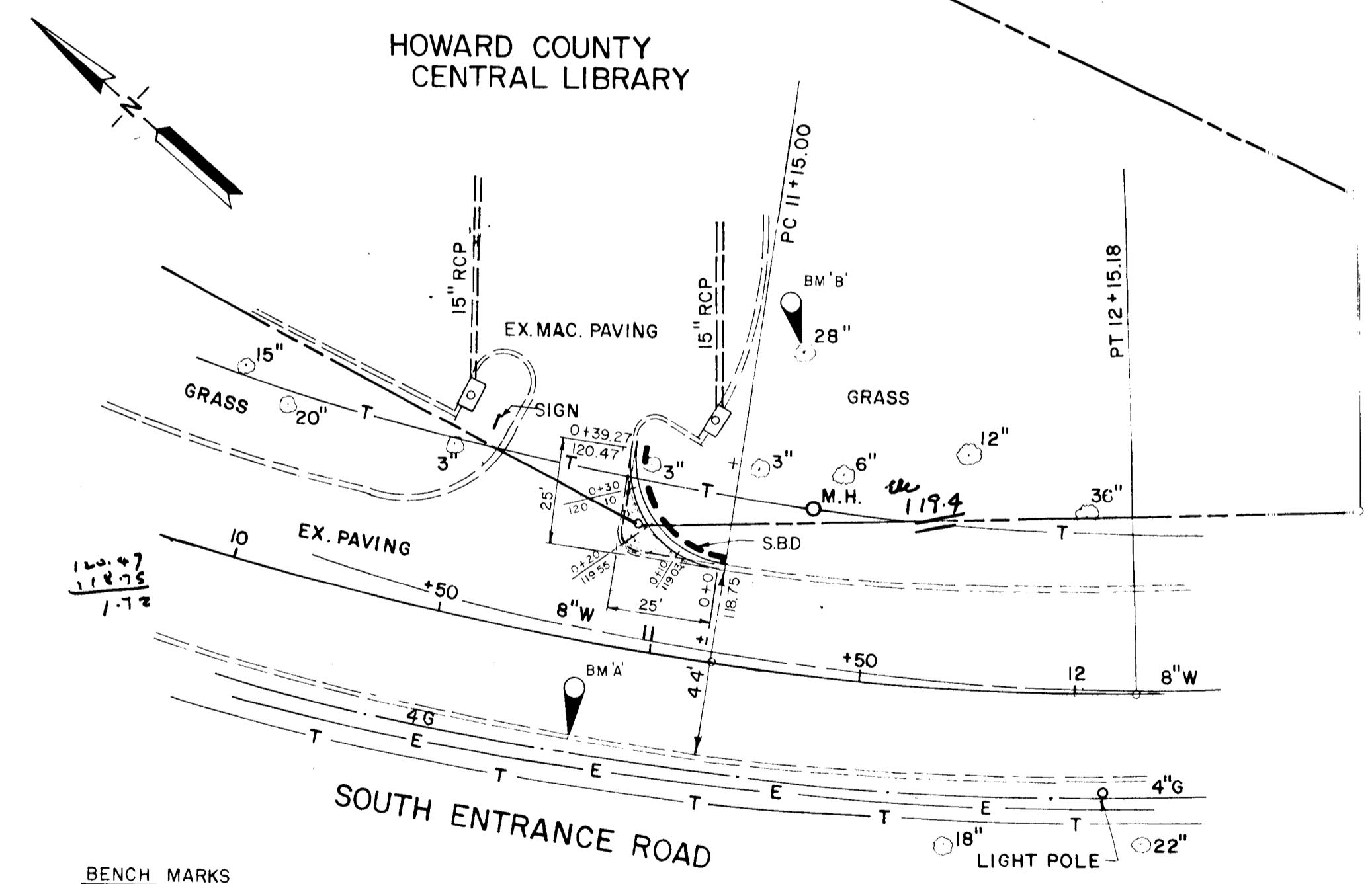
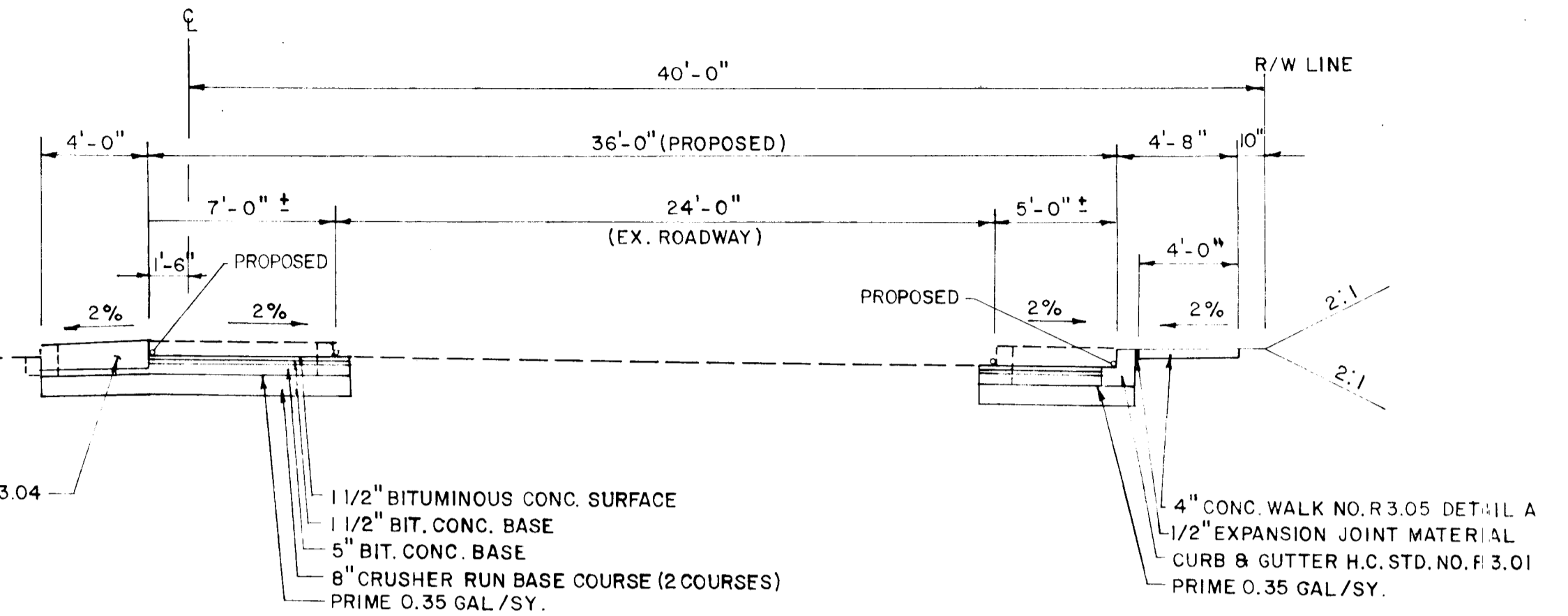
SCALE AS SHOWN  
SHEET 2 OF 2



CURVE DATA				
NO.	Δ	R	T	L
A	12-24-05	150.00	16.30	32.47
B	74-57-41	30.00	23.00	39.25
C	13-16-53	140.21	16.32	32.50
D	180°	2.00	-	-

CEDAR LANE			
STATION	FLOW LINE	ELEV	RT LANE
24+70	99.17	98.90	98.90
25+00	98.74	98.03	98.03
25+25	98.22	97.27	97.27
25+50 PC	97.61	96.49	96.49
25+82.21 PRC	96.87	95.79	95.79
26+14.42 PT	96.15	95.12	95.12

CURVE DATA			
NO.	Δ	R	T
1	101.20	96.15	5.05
2	467.13	5.05	462.08



CURVE DATA			
Δ	R	T	L
90°00'00"	25.00	25.00	39.25

STA

0+39.27	1.72
0+30	1.35
0+20	.75
0+10	.28
0+0	-

Assum 118.75

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

PROGRESSIVE ENGINEERING  
CONSULTANTS  
14333 LAUREL-BOWIE ROAD, SUITE 108  
LAUREL, MARYLAND 20708  
(301) 621-1050 (Wash.), (301) 792-8632 (Balt.)

DES: L.K.B			
DRN: A.D.G			
CHK: I.H			
DATE: MAY, 85	BY	NO	REVISION

PLAN  
LITTLE PATUXENT PARKWAY  
&  
CEDAR LANE

LITTLE PATUXENT PARKWAY  
INTERSECTION IMPROVEMENT  
CAPITOL PROJECT NO. T-7033  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY MARYLAND

SCALE: AS SHOWN  
SHEET 3 OF 3