

PARCEL 3 - PLAT 1520
EMERSON COMMUNITY ASSOCIATION INC.
LIBER 0596 FOLIO 0702
LAND USE: R
ZONE: RSC

PARCEL 5
HOWARD COUNTY RESEARCH AND DEVELOPMENT
LIBER 0579 FOLIO 0883
LAND USE: R
ZONE: PEC

PARCEL 100 - PLAT 1291
COLETTE M. POUNTNAY AND THOMAS C. POUNTNAY T/E
LIBER 0648 FOLIO 0322
LAND USE: R
ZONE: RED

PARCEL 1032
HOWARD COUNTY BOARD OF EDUCATION
LIBER 110491
LAND USE: E
ZONE: RED

MINOR COLLECTOR
GORMAN ROAD
VARIABLE WIDTH P.O.W.
SPEED LIMIT: 35 MPH

MINOR COLLECTOR
WILDERNESS LANE
VARIABLE WIDTH P.O.W.
SPEED LIMIT: 35 MPH

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SPEED LIMIT: 35 MPH

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WILDERNESS LANE
VARIABLE WIDTH P.O.W.
SPEED LIMIT: 35 MPH

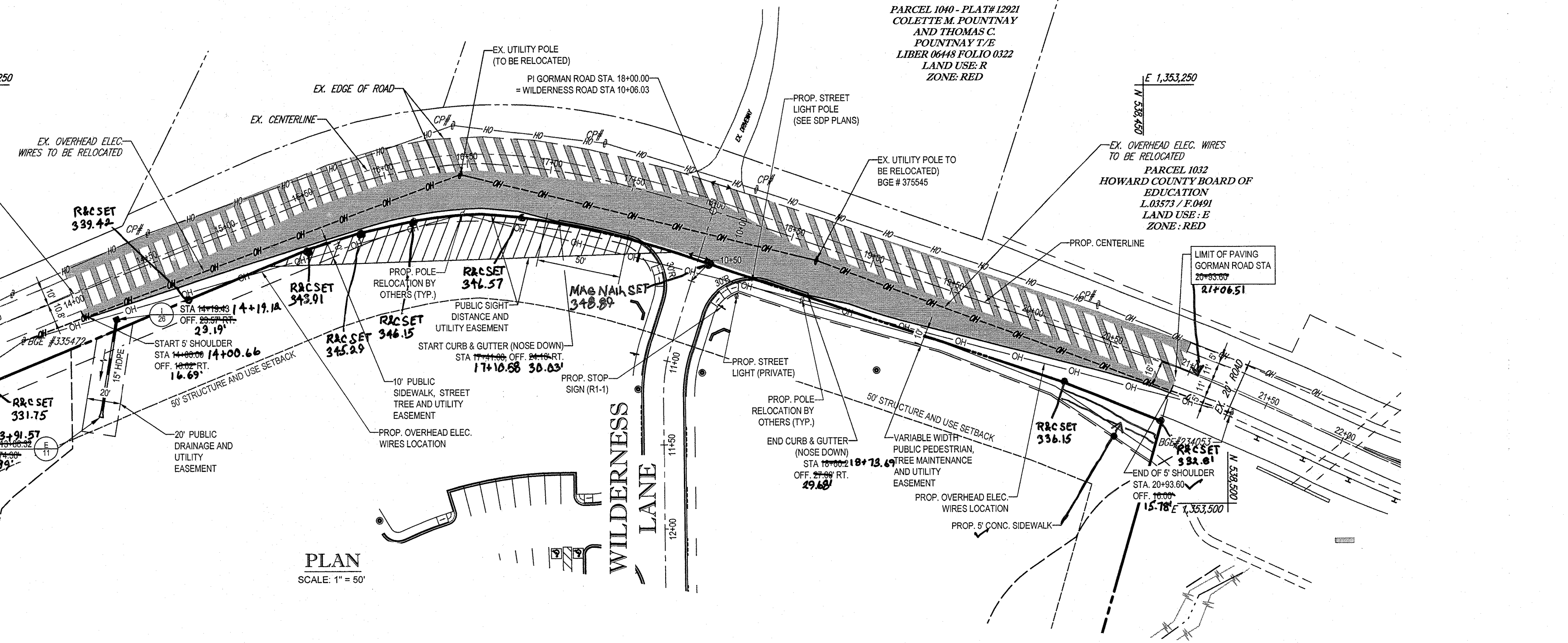
MINOR COLLECTOR
WILDERNESS LANE
VARIABLE WIDTH P.O.W.
SPEED LIMIT: 35 MPH

MINOR COLLECTOR
WILDERNESS LANE
VARIABLE WIDTH P.O.W.
SPEED LIMIT: 35 MPH

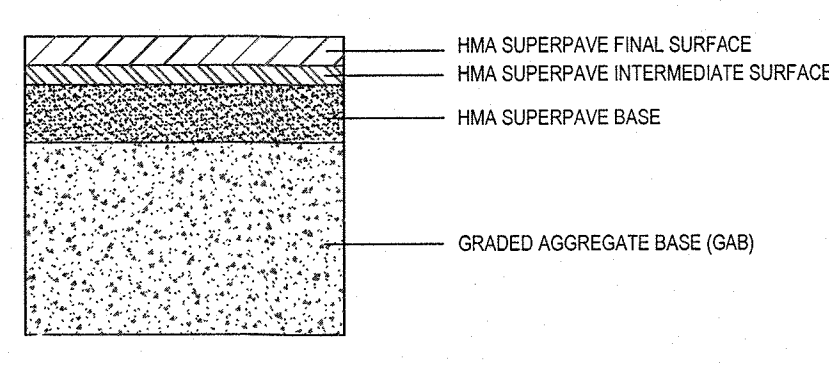
MINOR COLLECTOR
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WILDERNESS LANE
VARIABLE WIDTH P.O.W.
SPEED LIMIT: 35 MPH

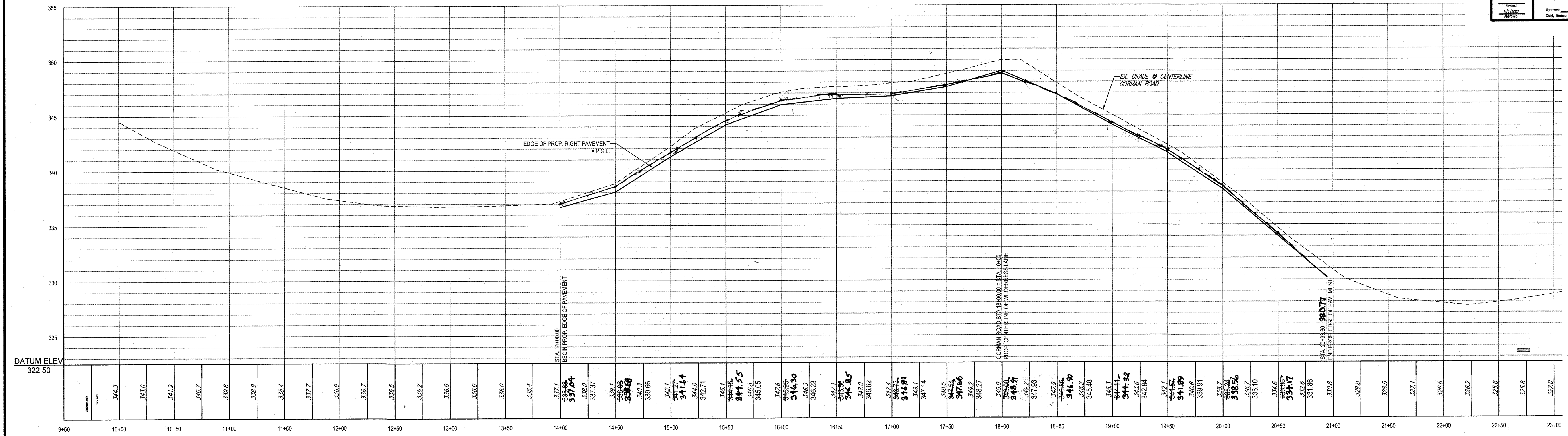
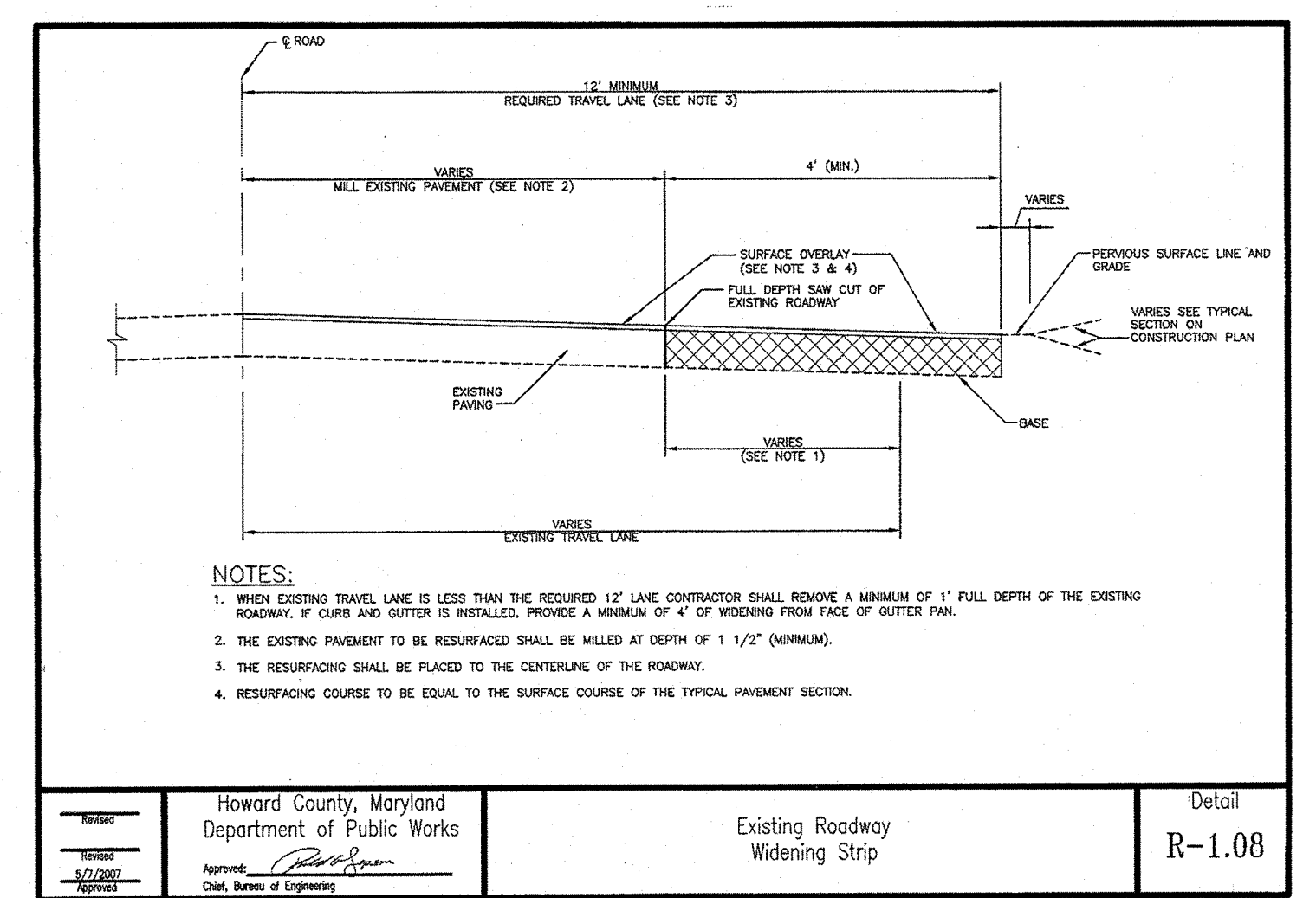
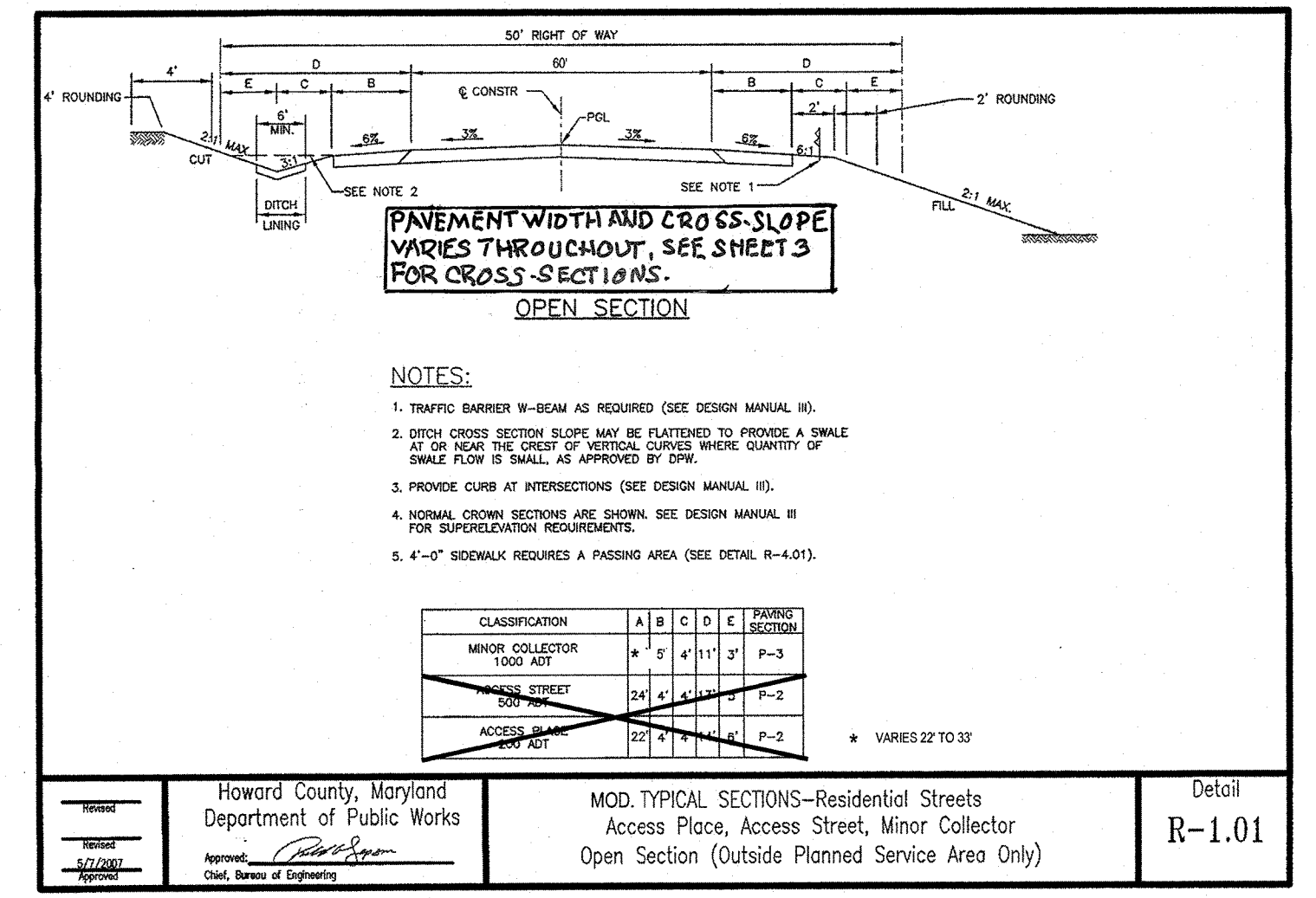
MINOR COLLECTOR
WILDERNESS LANE
VARIABLE WIDTH P.O.W.
SPEED LIMIT: 35 MPH



SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)				
		3 TO <5	5 TO <7	> 7	3 TO <5	
P-3	PARKING DRIVE ABLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY LOCAL ROADS: ACCESS PLACE, ACCESS STREET CUL-DE-SACS: NON-RESIDENTIAL MINOR COLLECTORS: RESIDENTIAL	PAVEMENT MATERIAL (INCHES)		MIN HMA WITH GAB		
		HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.0	1.0	1.0	1.0
		HMA SUPERPAVE BASE 19.0 MM, PG 64-22, LEVEL 1 (ESAL)	3.0	3.0	4.5	3.0
		GRADED AGGREGATE BASE (GAB)	10.0	6.0	3.0	6.0



NOTE:
1. GORMAN ROAD TO BE IMPROVED TO MINOR COLLECTOR STANDARDS WITH THE EXCEPTION OF SIDEWALK INSTALLATION, WHICH WILL BE COMPLETED BY OTHERS.
2. FOR P.C.'S, P.T.'S, OFFSETS, AND SPOT ELEVATIONS, SEE SHEET 5 OF SDP-13-023.



APPROVED: DEPARTMENT OF PLANNING AND ZONING
Paul Edwards 7-1-14
 CHIEF DEVELOPMENT ENGINEERING DIVISION
Keith DeWitt 7-02-14
 CHIEF DIVISION OF LAND DEVELOPMENT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Heather Seawans 6-27-14
 CHIEF, BUREAU OF HIGHWAYS
 DIRECTOR OF PUBLIC WORKS

BOHLER ENGINEERING
 901 DULANEY VALLEY ROAD, SUITE 801
 TOWSON, MARYLAND 21284
 Phone: (410) 821-7900
 Fax: (410) 821-7987
 www.BohlerEngineering.com

PROFESSIONAL CERTIFICATION
 I, DAVID C. WOESSNER, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14440, EXPIRATION DATE: 5/18/15

GORMAN ROAD PROFILE
 SCALE: 1"=50' HORIZONTAL
 1"=5' VERTICAL
 POSTED SPEED LIMIT = 35 MPH

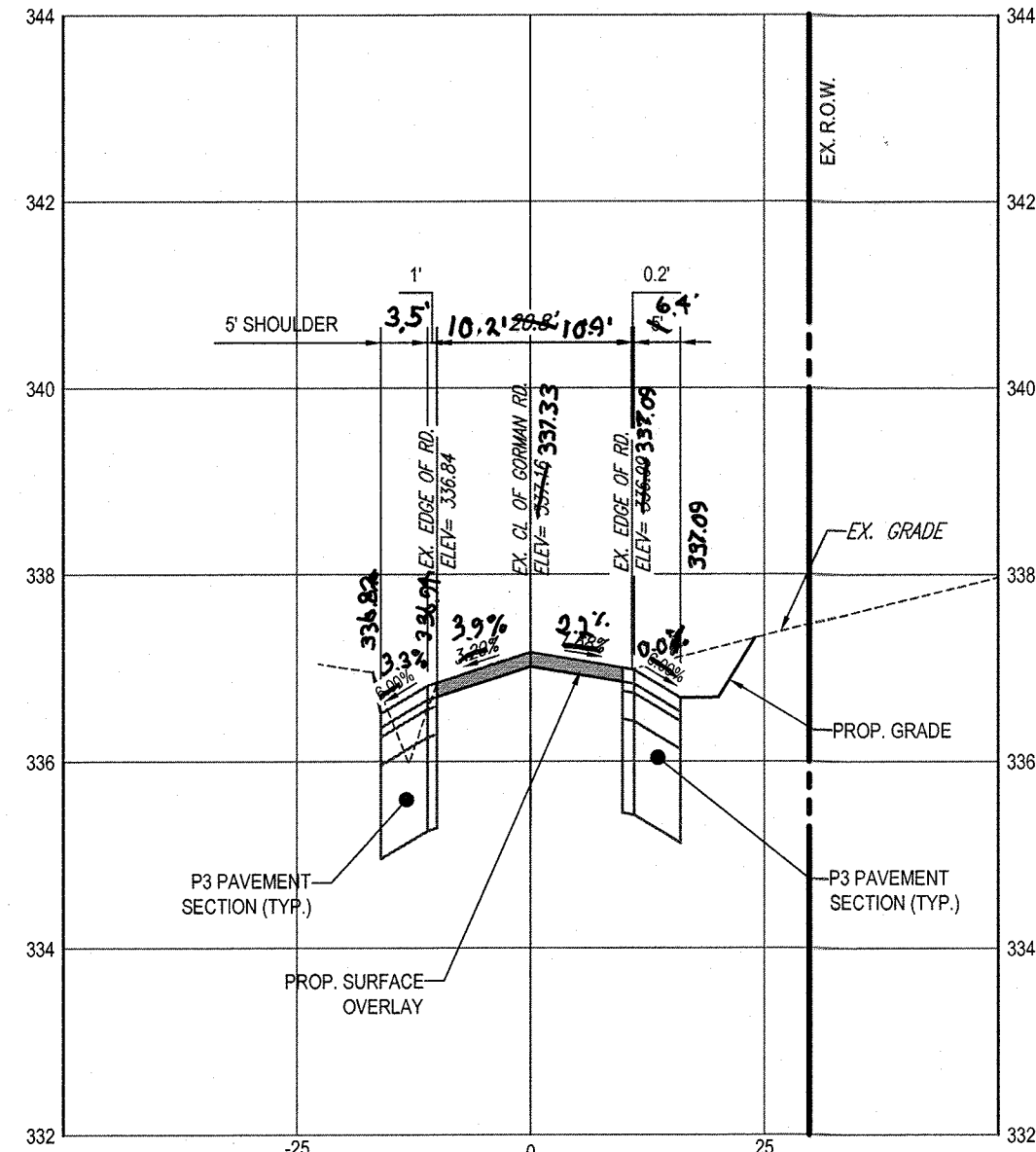
DES: J.A./A.V.G.
 DRN: R.M.S./A.V.G.
 CHK: B.R.R.
 DATE: 6/18/14

GORMAN ROAD PLAN AND PROFILE
 PARCEL NO. 4 (LOTS 1-102)
 600' SCALE MAP NO. 47 BLOCK NO. N/A

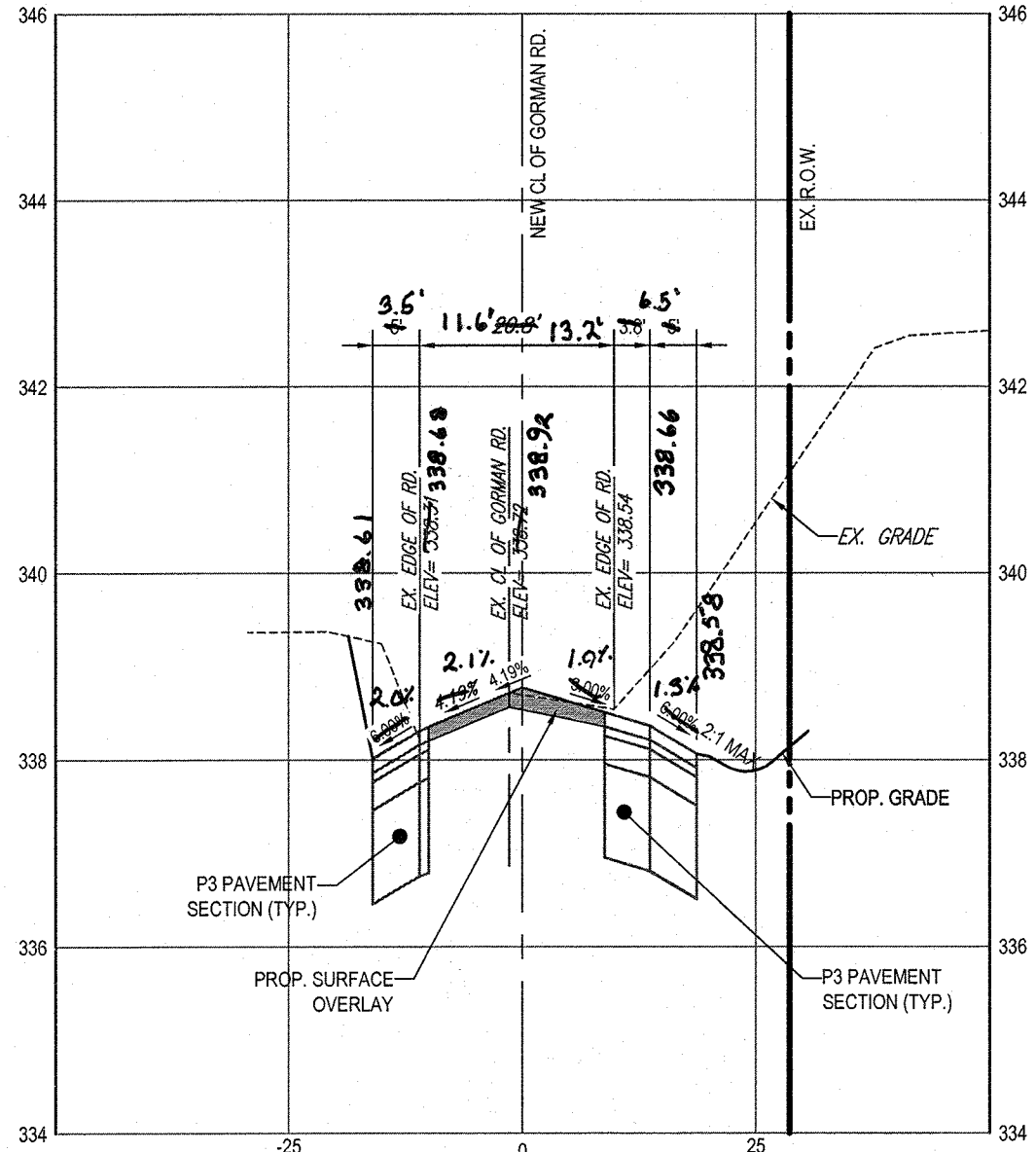
FINAL ROAD IMPROVEMENTS PLAN
 GORMAN ROAD
 WALDEN WOODS
 BUILDABLE LOTS 1-87, AND OPEN SPACE LOTS 98-102
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS NOTED
 SHEET 2 OF 6

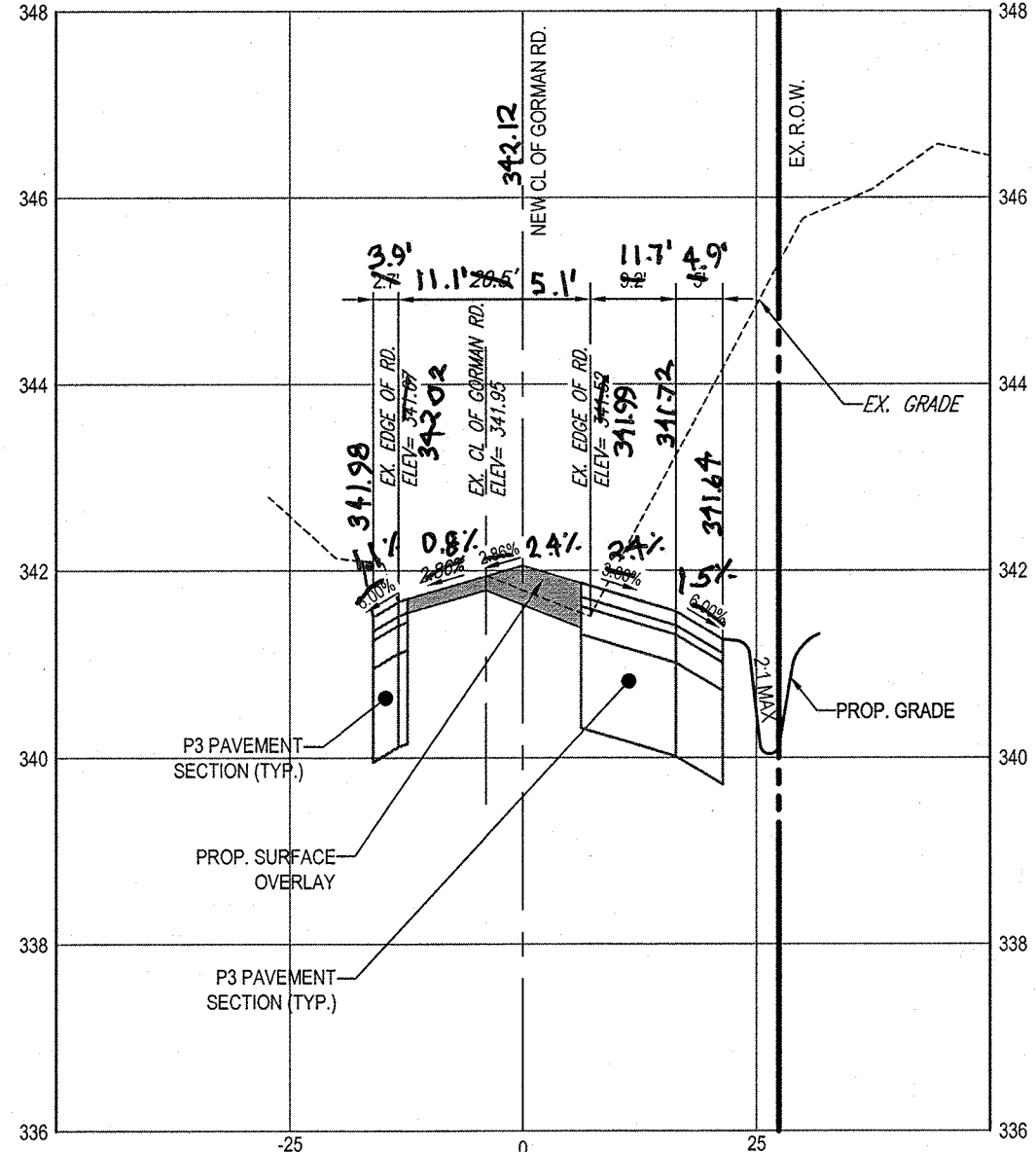
CROSS SECTION 14+02



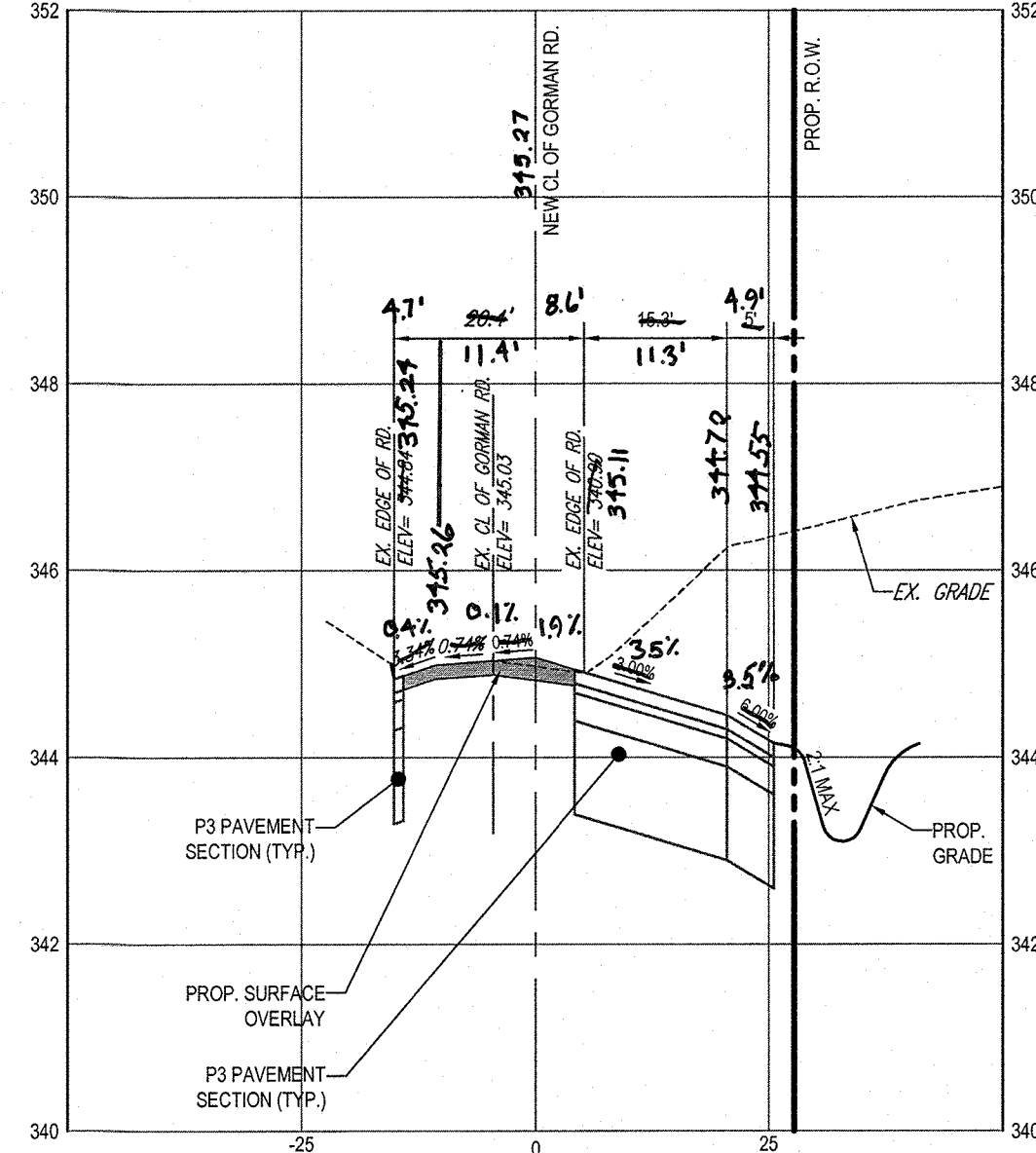
CROSS SECTION 14+50



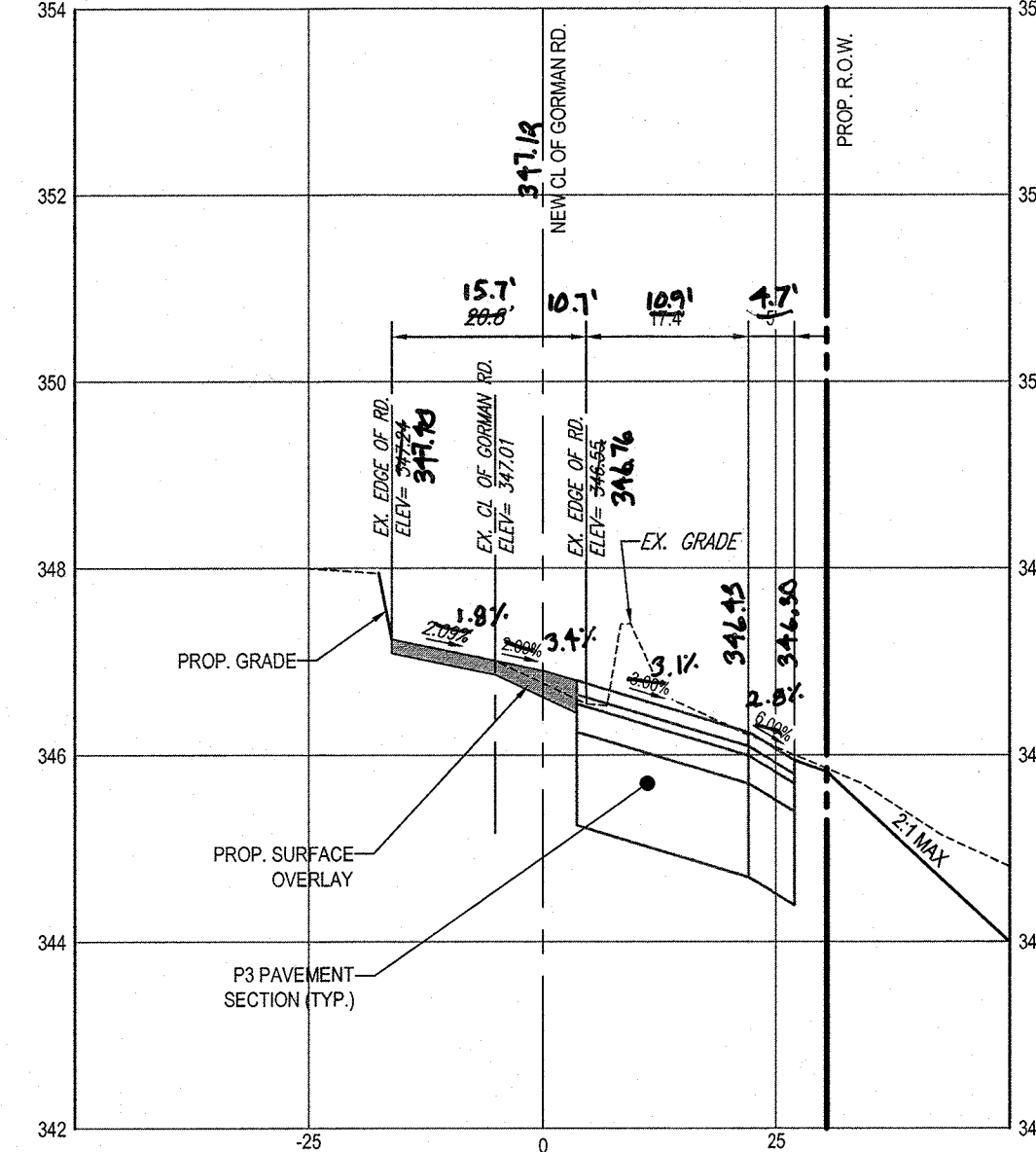
CROSS SECTION 15+00



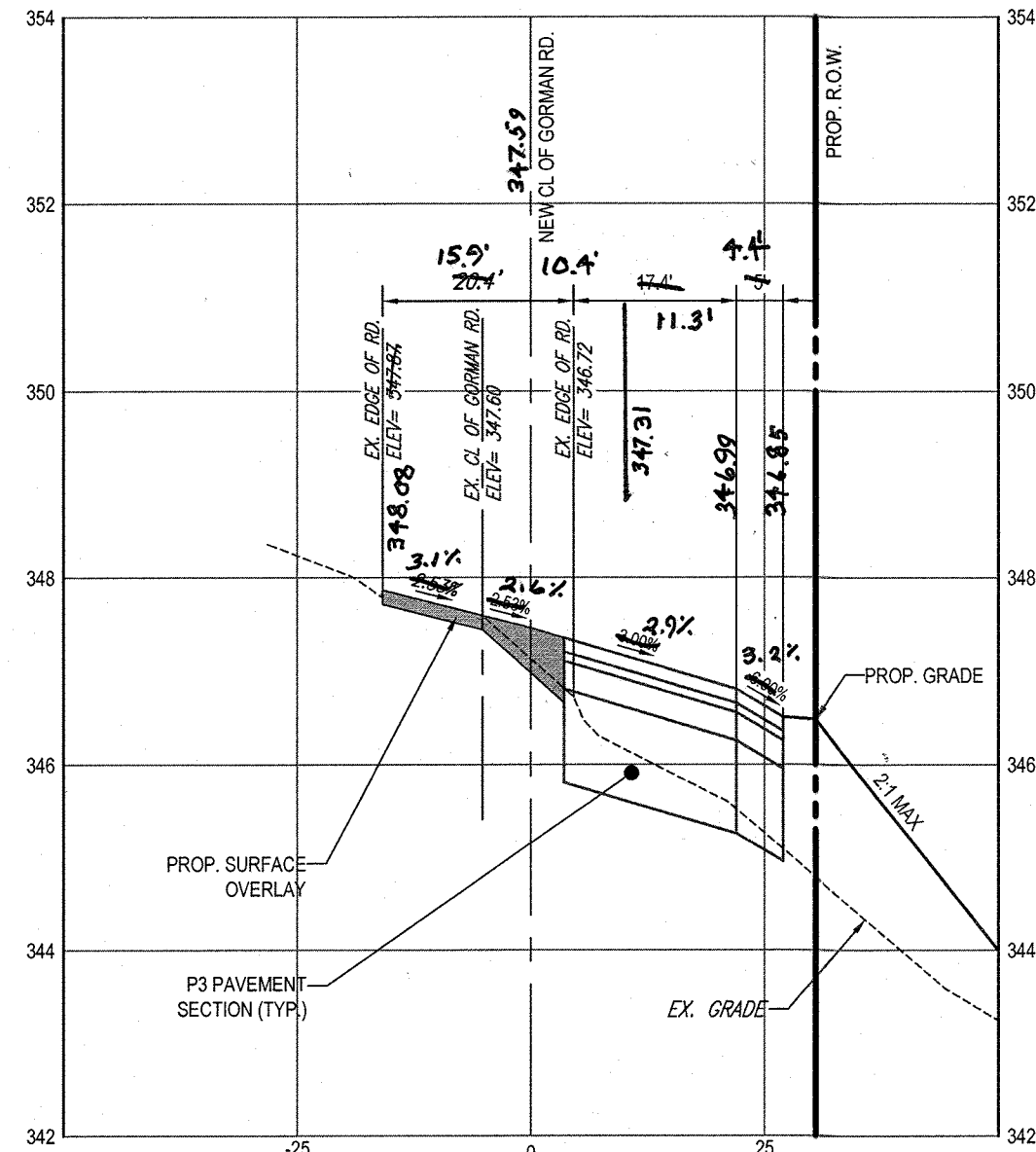
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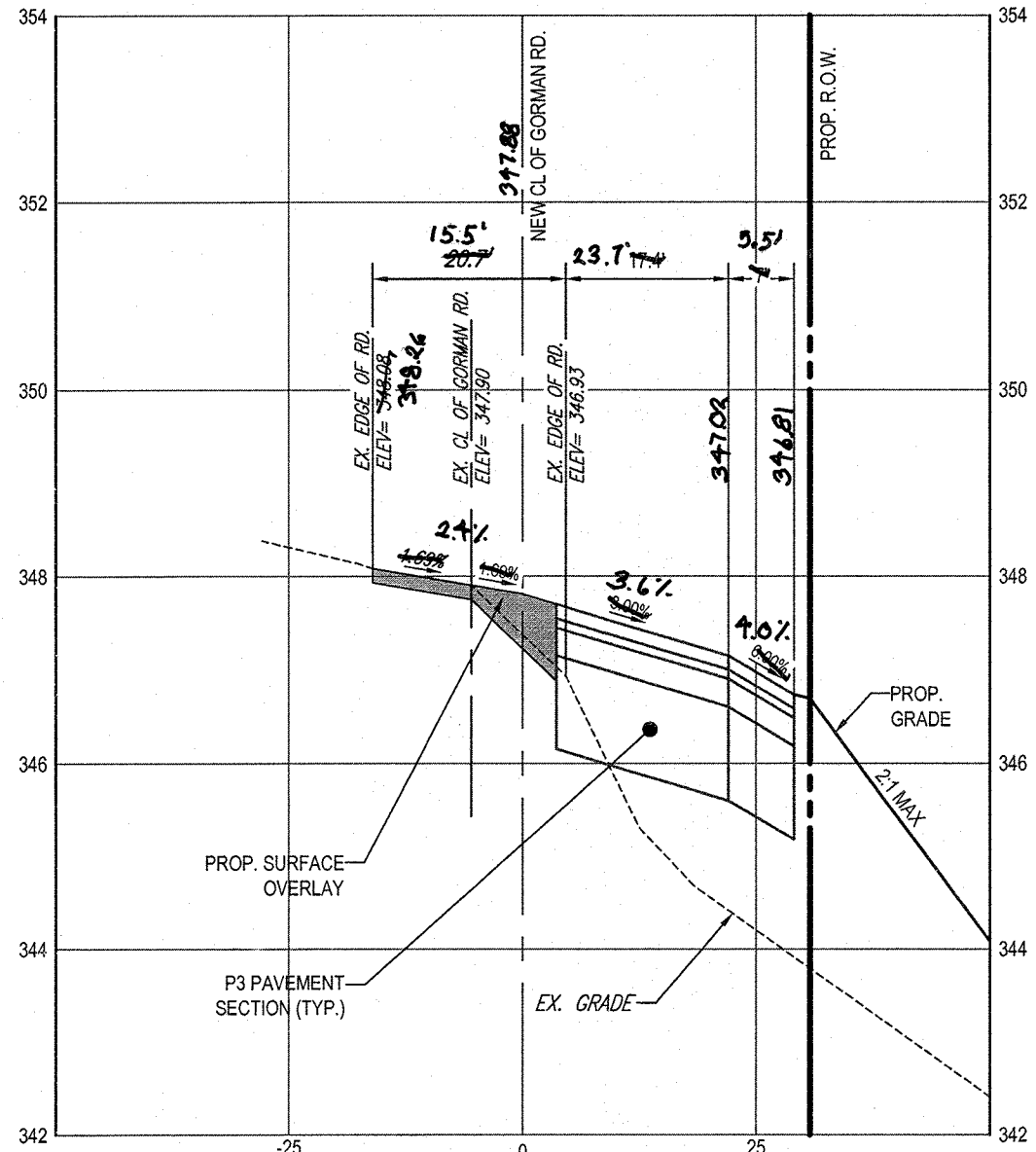
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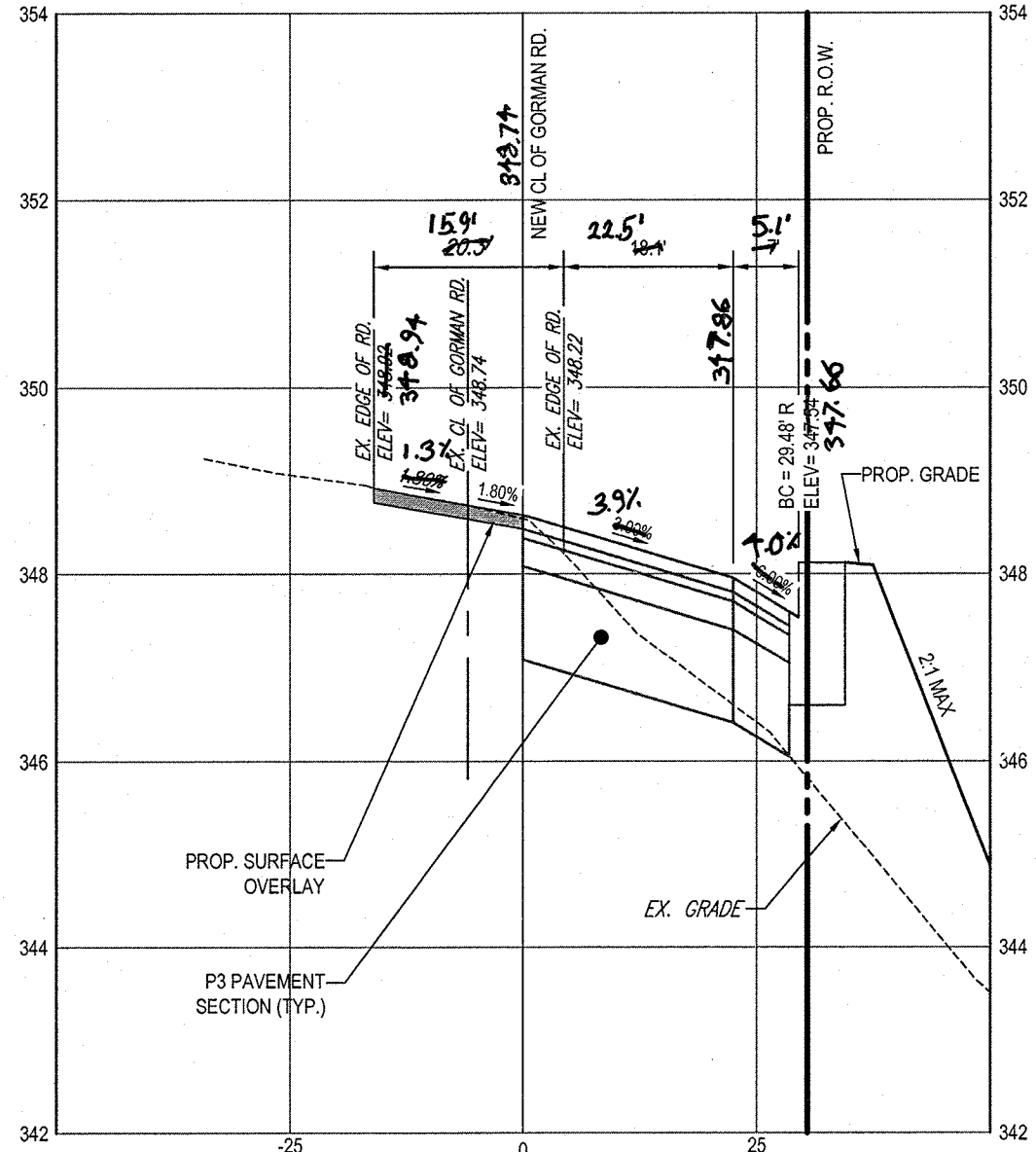
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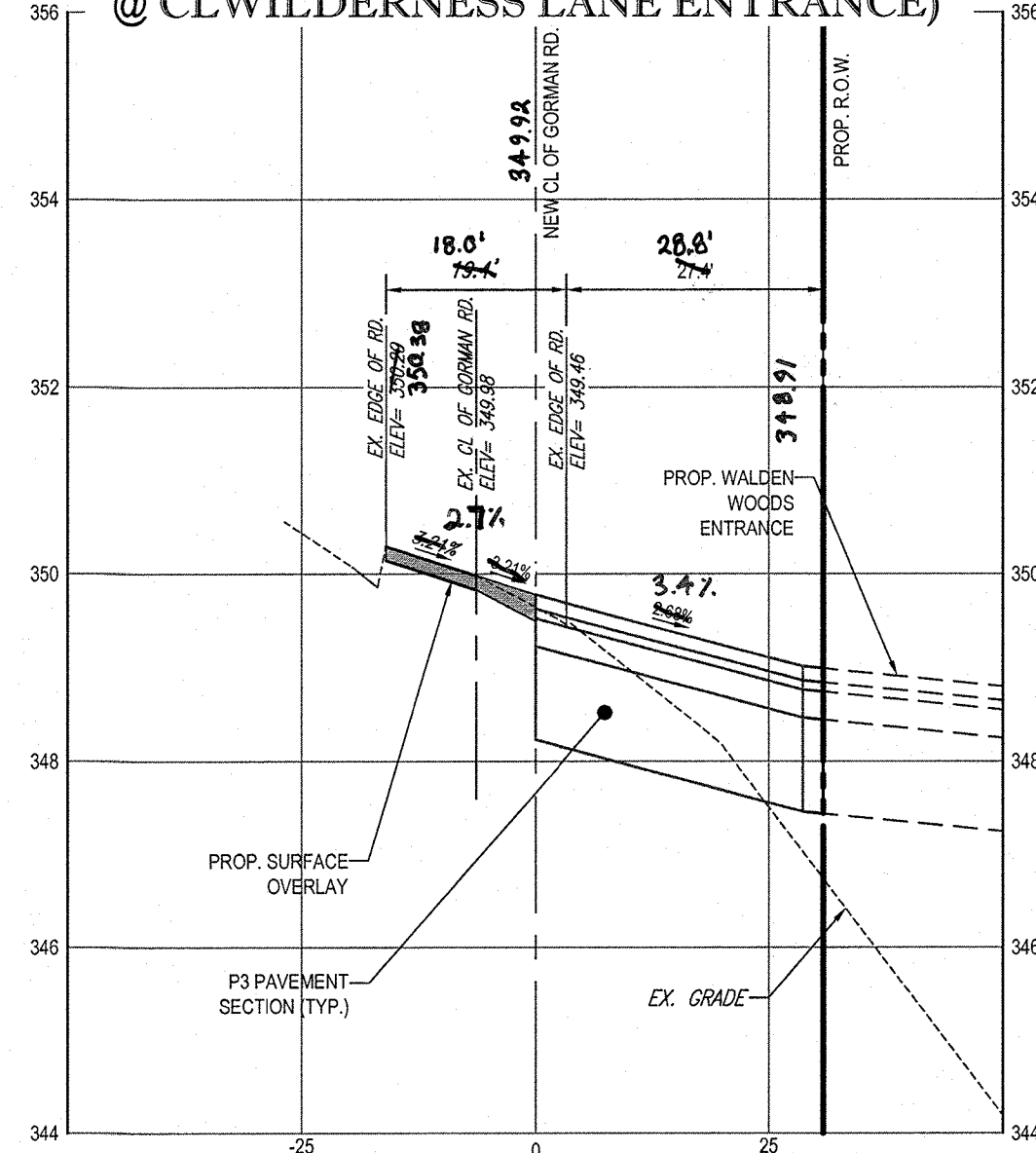
CROSS SECTION 17+00



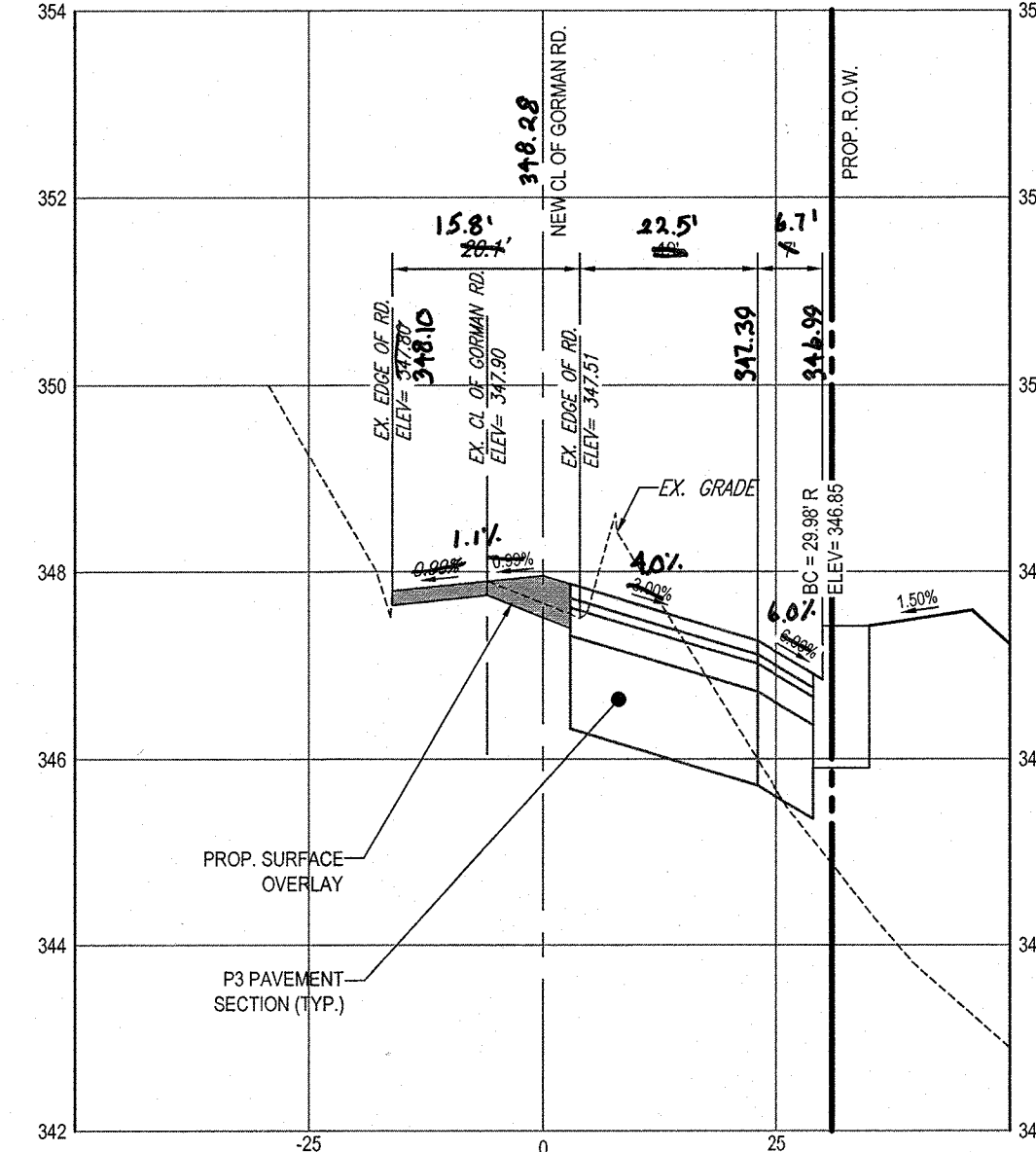
CROSS SECTION 17+50



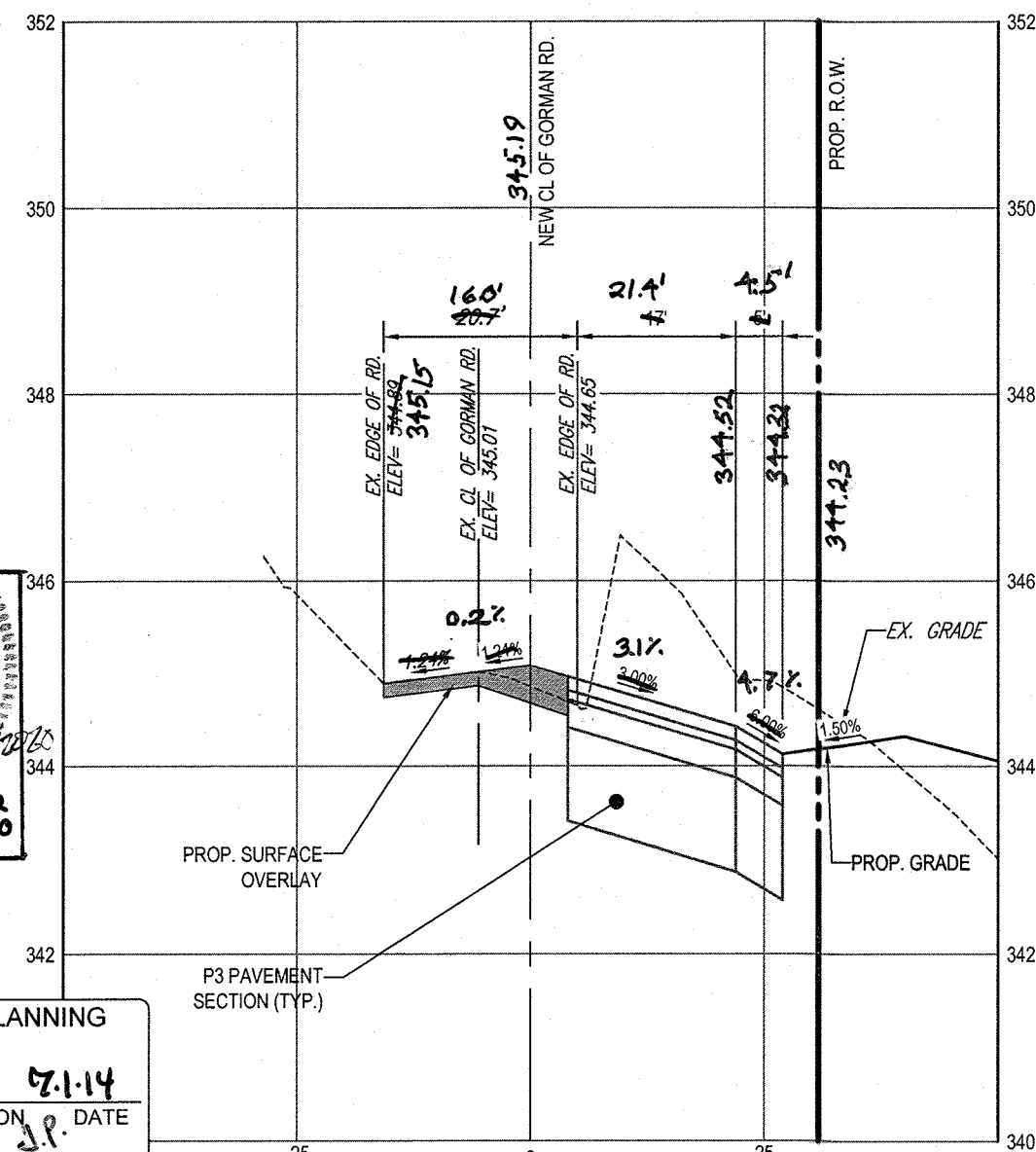
CROSS SECTION 18+00 @ CL WILDERNESS LANE ENTRANCE



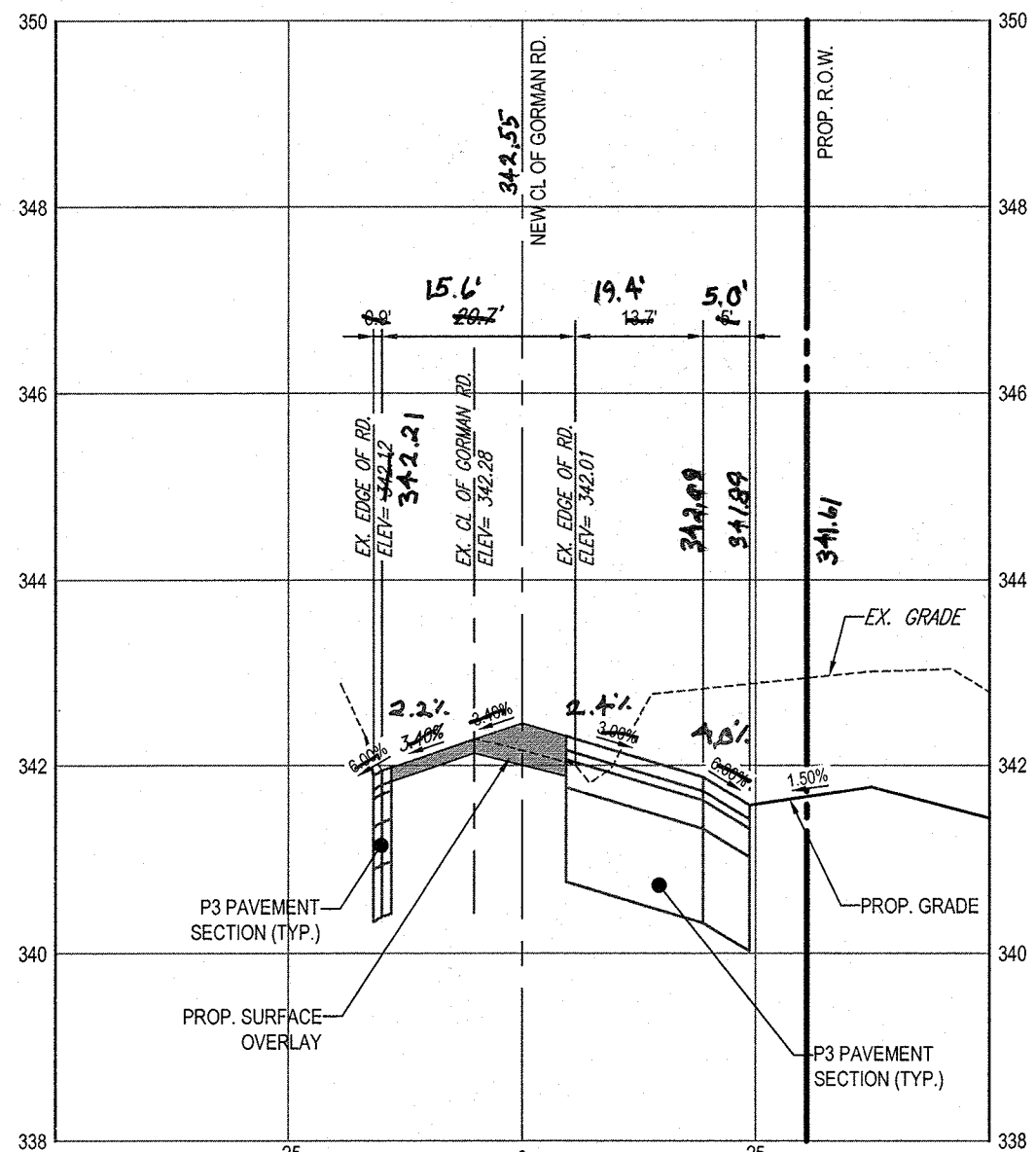
CROSS SECTION 18+50



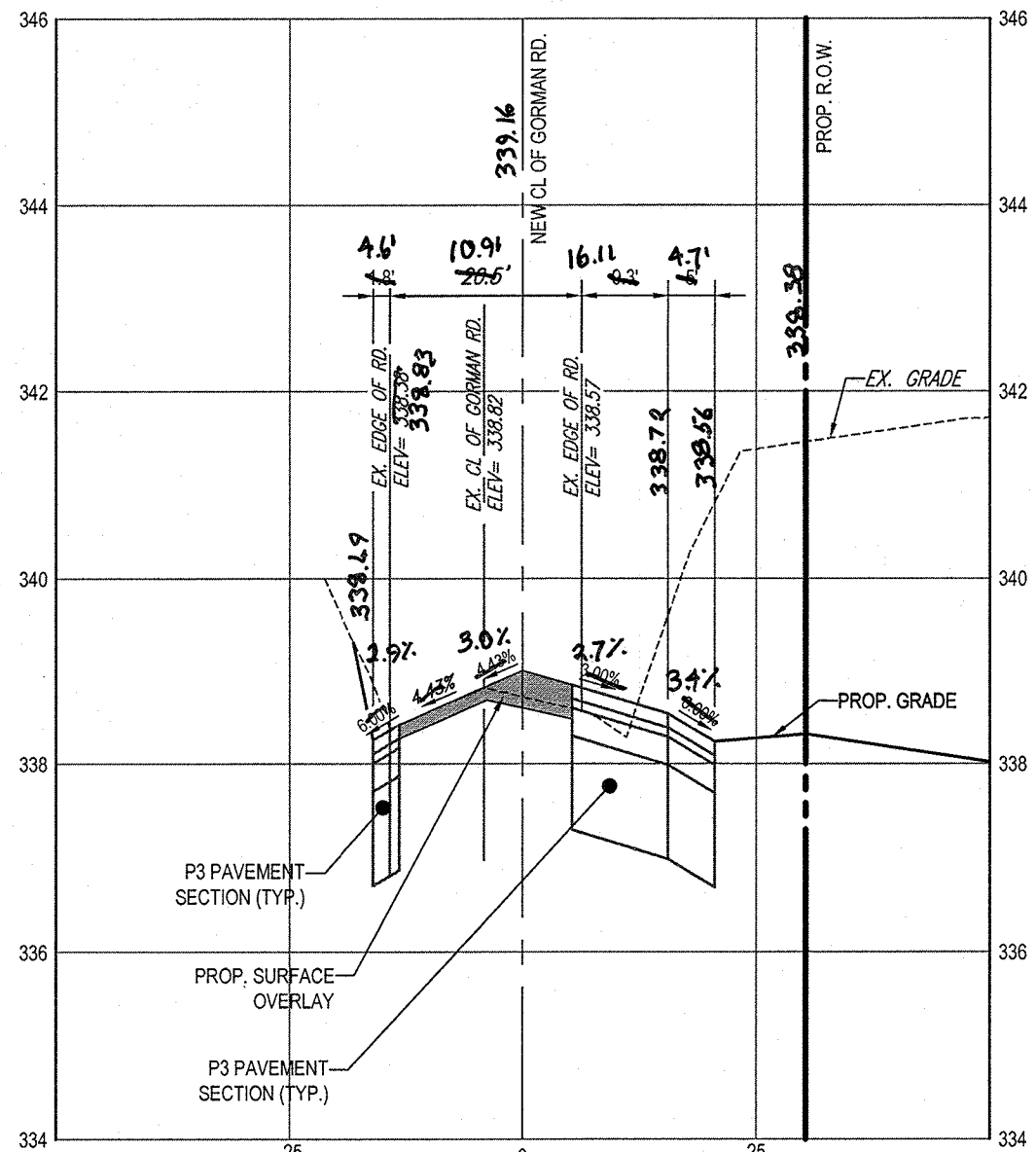
CROSS SECTION 19+00



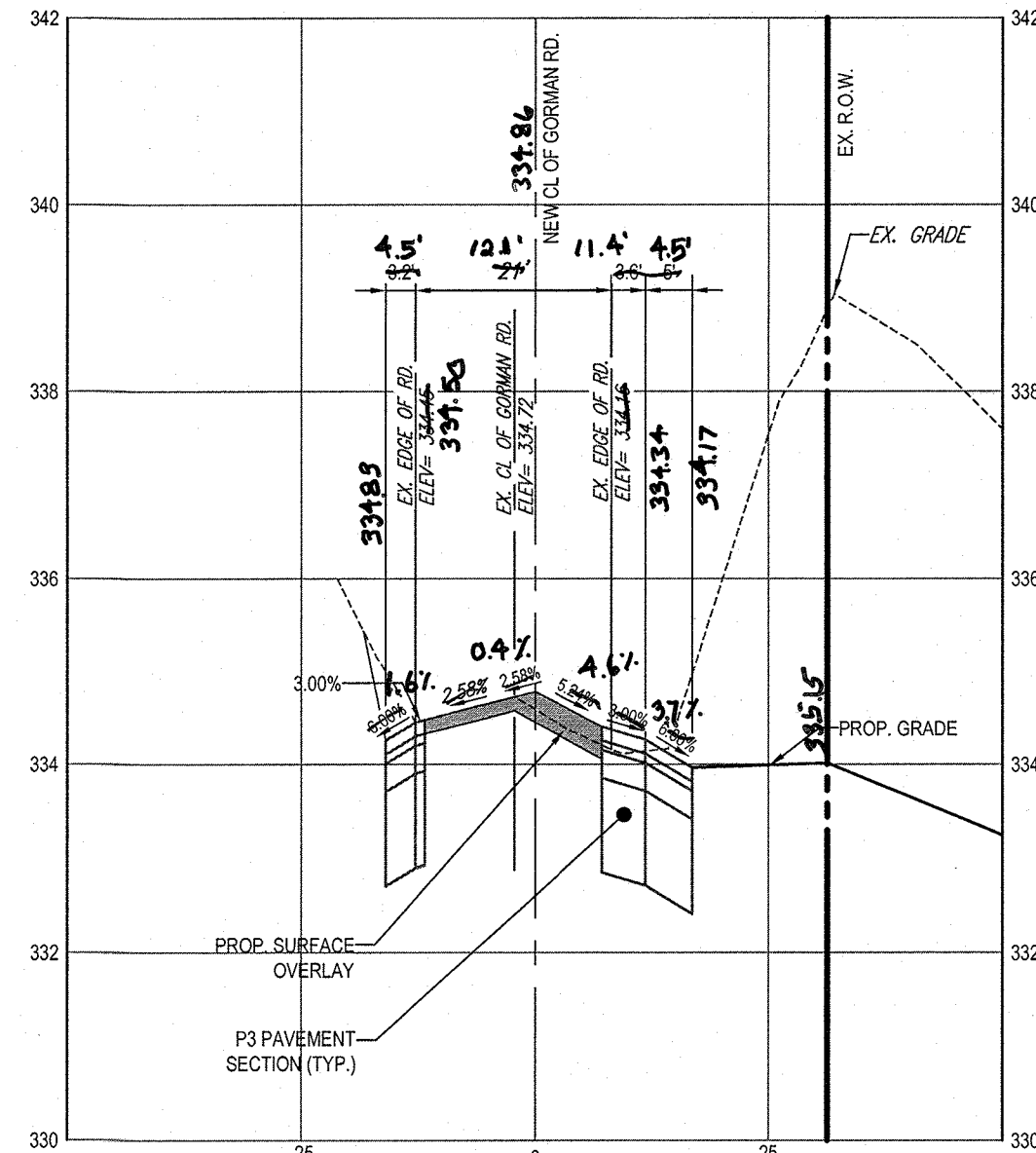
CROSS SECTION 19+50



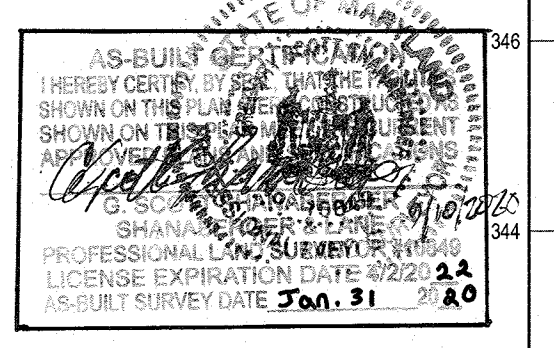
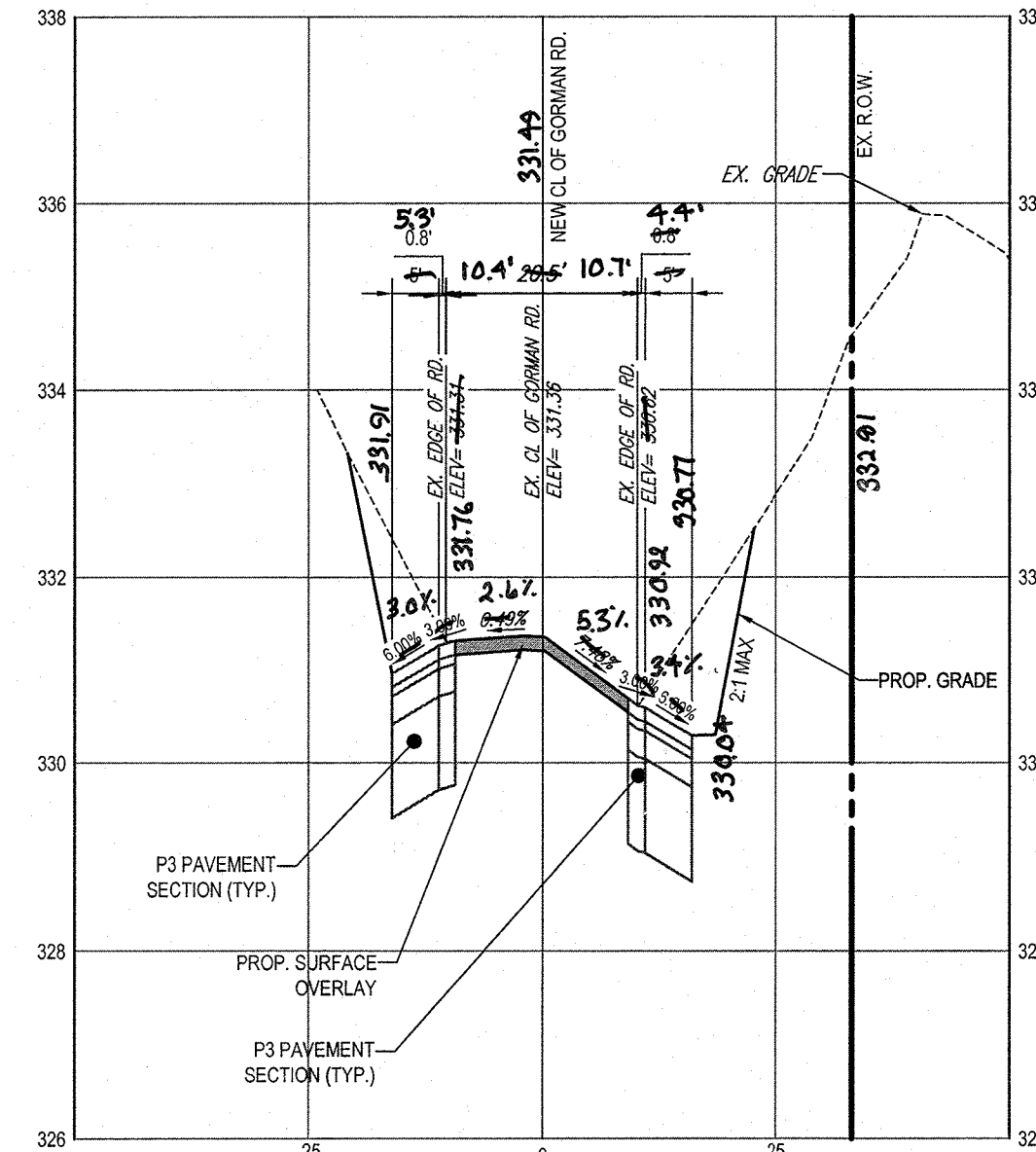
CROSS SECTION 20+00



CROSS SECTION 20+50



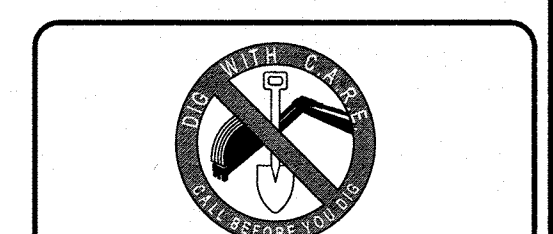
CROSS SECTION 20+94



APPROVED: DEPARTMENT OF PLANNING AND ZONING. Chief-Development Engineering Division, DATE 7-1-14. Chief-Division of Land Development, DATE 7-1-14.

PROFESSIONAL CERTIFICATION I, DAVID C. WOESSNER, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14460, EXPIRATION DATE 8/31/15.

LEGEND: MILL AND OVERLAY



THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND DELAWARE CALL - 811 (WV 1-800-245-4848) (PA 1-800-242-7776) (DC 1-800-257-7777) (VA 1-800-552-7021) (MD 1-800-257-7777) (DE 1-800-293-8559)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

BOHLER ENGINEERING 801 DULANEY VALLEY ROAD, SUITE 801 TOWSON, MARYLAND 21204 Phone: (410) 821-7900 Fax: (410) 821-7987 www.BohlerEngineering.com

D.C. WOESSNER PROFESSIONAL ENGINEER License No. 14460

Table with columns: DES: J.A./A.V.G., DRN: R.M.S./A.V.G., CHK: B.R.R., DATE: 6/18/14, REV., DATE, DESCRIPTION, BY.

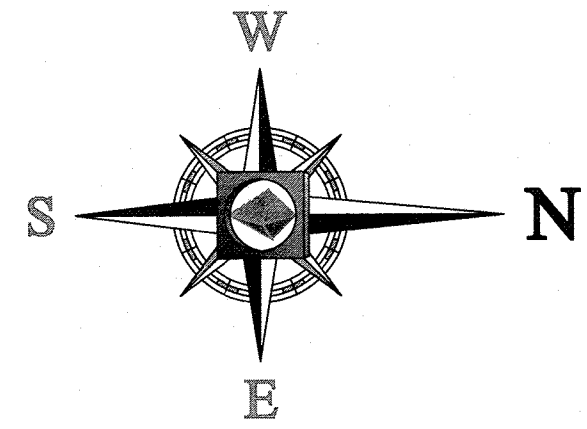
GORMAN ROAD CROSS SECTIONS

PARCEL NO. 4 (LOTS 1 - 102) 600' SCALE MAP NO. 47 BLOCK NO. N/A

FINAL ROAD IMPROVEMENTS PLAN GORMAN ROAD

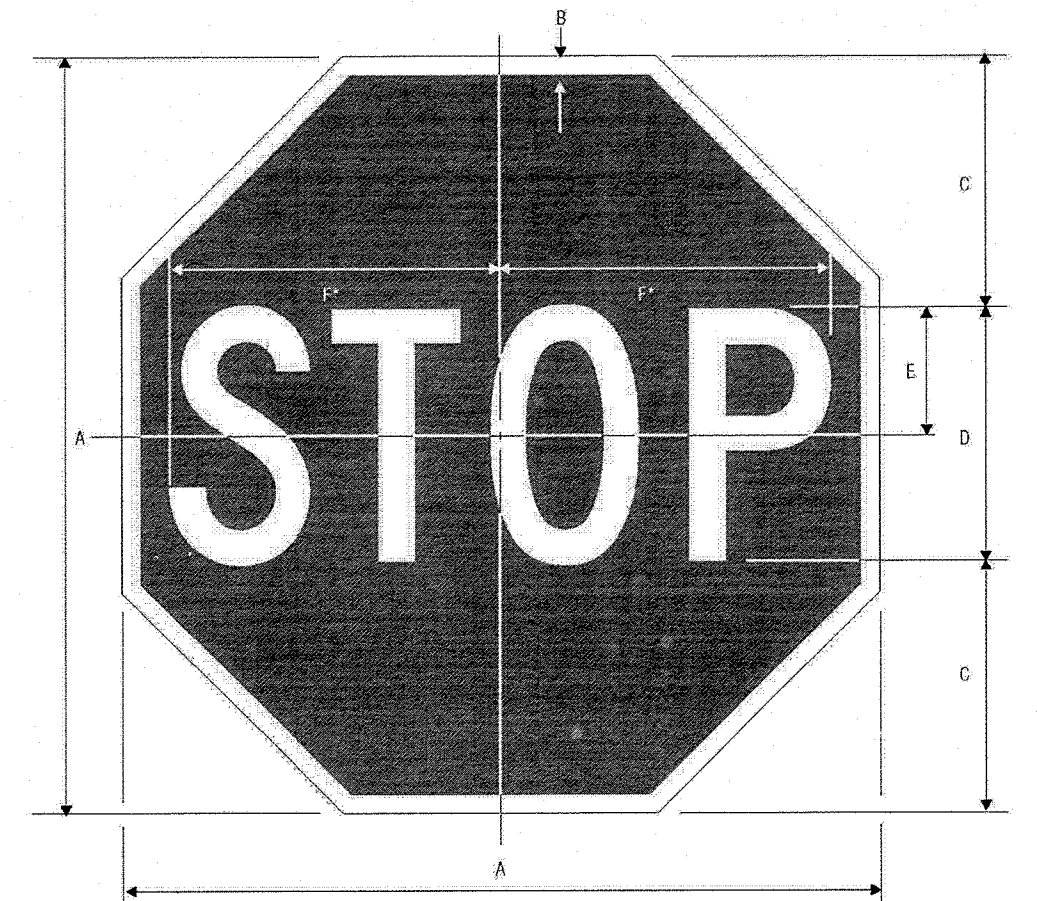
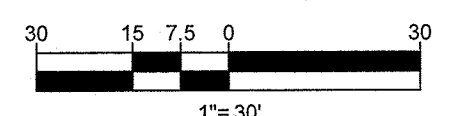
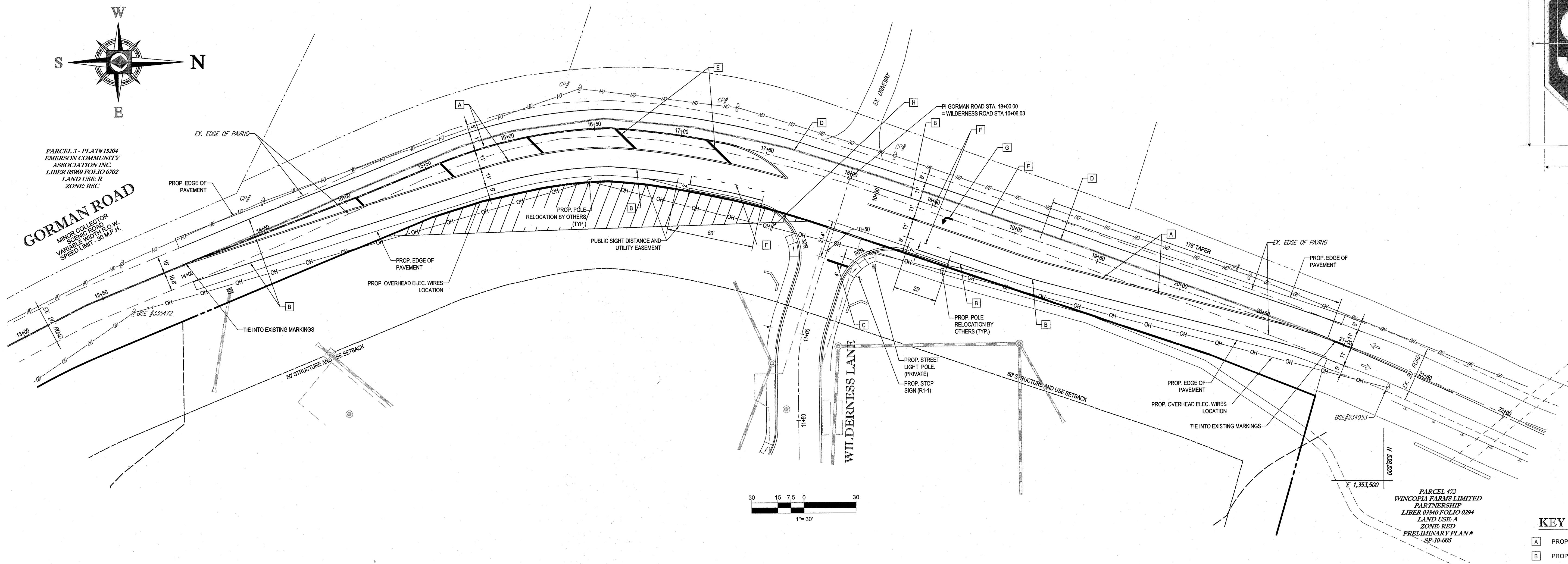
WALDEN WOODS BUILDABLE LOTS 1-97, AND OPEN SPACE LOTS 98-102 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE 1" = 2' (VERT.) 1" = 20' (HORIZ.) SHEET 3 OF 6



PARCEL 3 - PLAT# 1324
EMERSON COMMUNITY
ASSOCIATION INC.
LIBER 05069 FOLIO 0702
LAND USE: R
ZONE: RSC

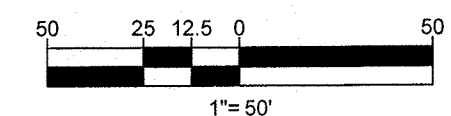
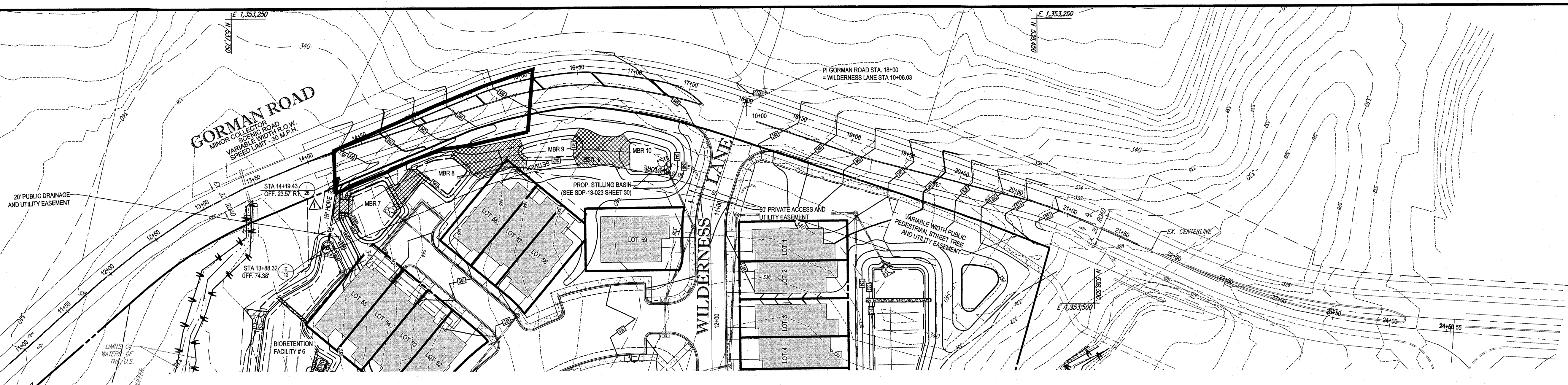
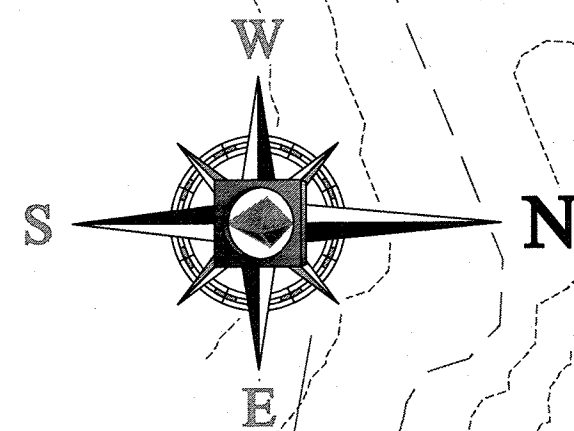
MINOR COLLECTOR
SPACING WITH C.O.W.
VARIABLE LMP - 30' M.P.H.



R1-1
STOP *Reduce spacing 40%

A	B	C	D	E	F
18	3.75	8	6	3	7.75
24	4.25	8	6	4	10
30	4.75	10	10	5	12.5
36	5.25	12	12	6	15
48	6.75	16	16	8	20

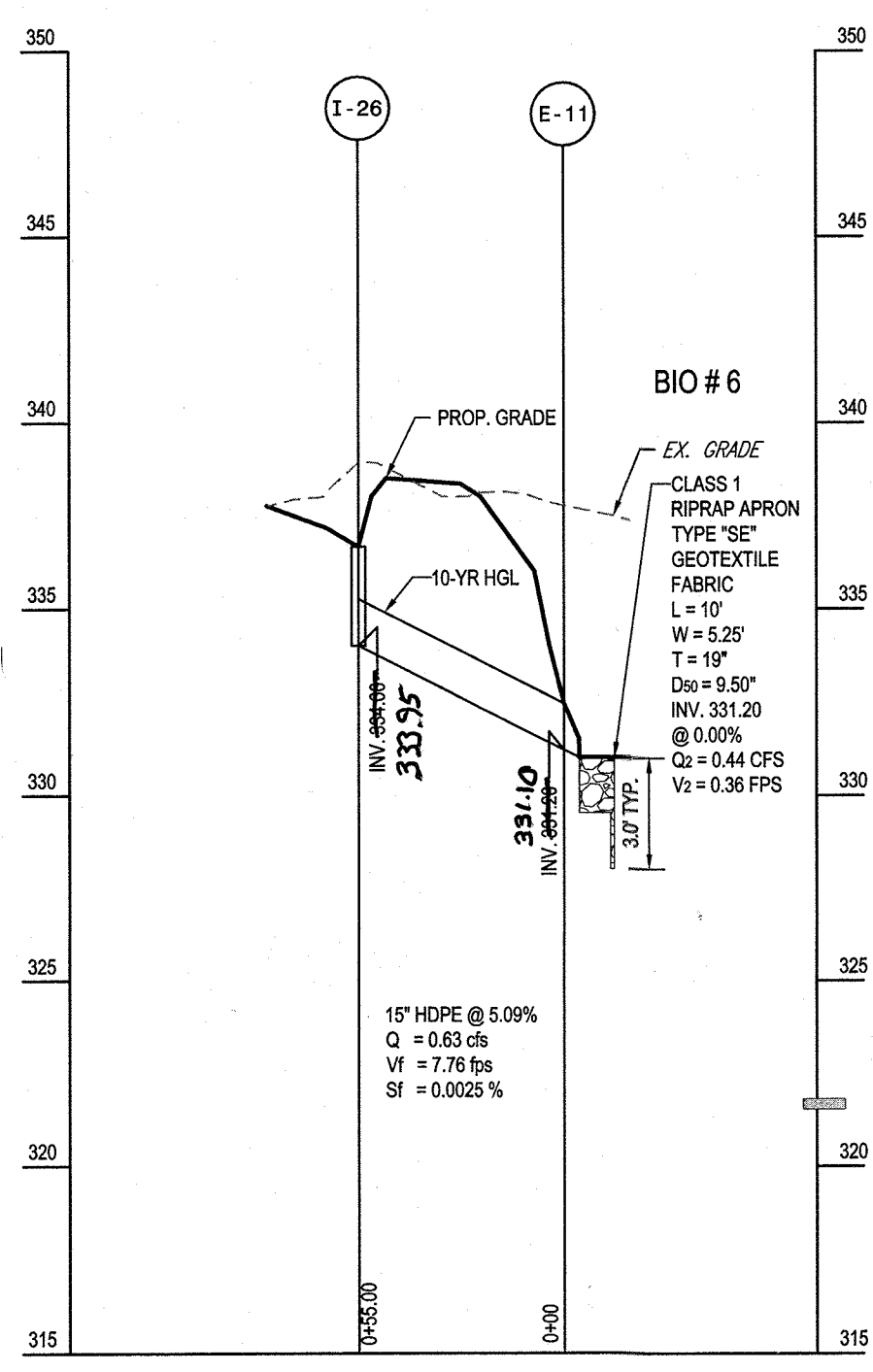
SMALLER SIZES: 18, 24, 30, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240, 252, 264, 276, 288, 300, 312, 324, 336, 348, 360, 372, 384, 396, 408, 420, 432, 444, 456, 468, 480, 492, 504, 516, 528, 540, 552, 564, 576, 588, 600, 612, 624, 636, 648, 660, 672, 684, 696, 708, 720, 732, 744, 756, 768, 780, 792, 804, 816, 828, 840, 852, 864, 876, 888, 900, 912, 924, 936, 948, 960, 972, 984, 996, 1008, 1020, 1032, 1044, 1056, 1068, 1080, 1092, 1104, 1116, 1128, 1140, 1152, 1164, 1176, 1188, 1200, 1212, 1224, 1236, 1248, 1260, 1272, 1284, 1296, 1308, 1320, 1332, 1344, 1356, 1368, 1380, 1392, 1404, 1416, 1428, 1440, 1452, 1464, 1476, 1488, 1500, 1512, 1524, 1536, 1548, 1560, 1572, 1584, 1596, 1608, 1620, 1632, 1644, 1656, 1668, 1680, 1692, 1704, 1716, 1728, 1740, 1752, 1764, 1776, 1788, 1800, 1812, 1824, 1836, 1848, 1860, 1872, 1884, 1896, 1908, 1920, 1932, 1944, 1956, 1968, 1980, 1992, 2004, 2016, 2028, 2040, 2052, 2064, 2076, 2088, 2100, 2112, 2124, 2136, 2148, 2160, 2172, 2184, 2196, 2208, 2220, 2232, 2244, 2256, 2268, 2280, 2292, 2304, 2316, 2328, 2340, 2352, 2364, 2376, 2388, 2400, 2412, 2424, 2436, 2448, 2460, 2472, 2484, 2496, 2508, 2520, 2532, 2544, 2556, 2568, 2580, 2592, 2604, 2616, 2628, 2640, 2652, 2664, 2676, 2688, 2700, 2712, 2724, 2736, 2748, 2760, 2772, 2784, 2796, 2808, 2820, 2832, 2844, 2856, 2868, 2880, 2892, 2904, 2916, 2928, 2940, 2952, 2964, 2976, 2988, 3000, 3012, 3024, 3036, 3048, 3060, 3072, 3084, 3096, 3108, 3120, 3132, 3144, 3156, 3168, 3180, 3192, 3204, 3216, 3228, 3240, 3252, 3264, 3276, 3288, 3300, 3312, 3324, 3336, 3348, 3360, 3372, 3384, 3396, 3408, 3420, 3432, 3444, 3456, 3468, 3480, 3492, 3504, 3516, 3528, 3540, 3552, 3564, 3576, 3588, 3600, 3612, 3624, 3636, 3648, 3660, 3672, 3684, 3696, 3708, 3720, 3732, 3744, 3756, 3768, 3780, 3792, 3804, 3816, 3828, 3840, 3852, 3864, 3876, 3888, 3900, 3912, 3924, 3936, 3948, 3960, 3972, 3984, 3996, 4008, 4020, 4032, 4044, 4056, 4068, 4080, 4092, 4104, 4116, 4128, 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HYDROLOGIC TABLE								
INLET NUMBER	AREA (AC)	IMP. %	C FACTOR	C X AREA	TC (MIN)	I _a (CFS)	Q _a (CFS)	ZONE
I-26	0.12	65	0.62	0.07	5.0	8.50	0.63	PSC

STRUCTURE TABLE							
NAME	TYPE	TOP ELEVATION	INV. IN	INV. OUT	ROAD NAME	ROAD STATION & OFFSET	HO. CO. STD
I-26	K	337.03		333.95	GORMAN ROAD	STA 14+10.45 D 4.12	D 4.12
E-11	15' END SECTION	332.35	331.10		GORMAN ROAD	STA 14+08.32 E 5.52	E 5.52

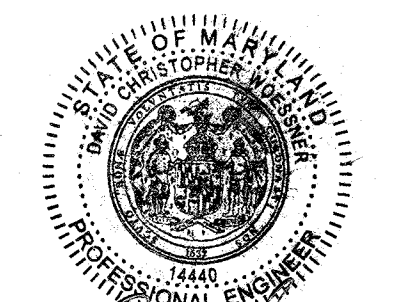
*A GRATE WILL BE INSTALLED PER D-413



I-26 TO E-11 STORM DRAIN PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

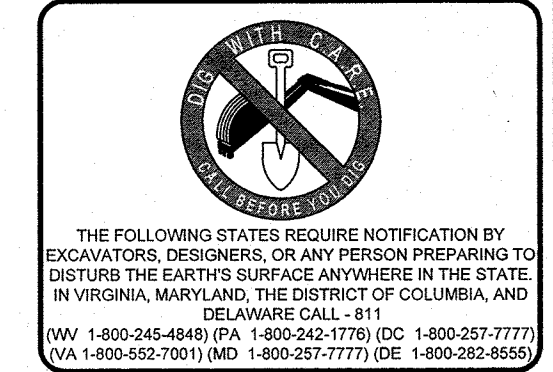
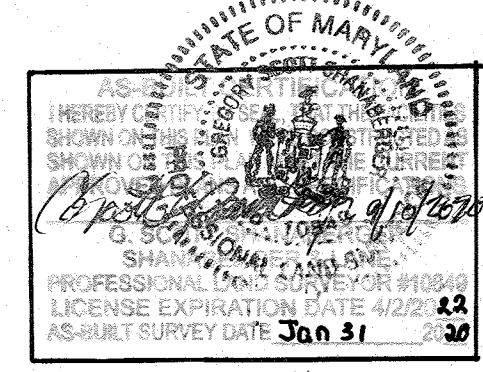
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Edwards 7/1/14
 CHIEF-DEVELOPMENT ENGINEERING DIVISION, DATE
Robert D. Lane 7/02/14
 CHIEF-DIVISION OF LAND DEVELOPMENT, DATE

PROFESSIONAL CERTIFICATION
 I, DAVID C. WOESSNER, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14440, EXPIRATION DATE: 5/19/15



*FOR REVISION 1 ONLY

David C. Woessner 3/11/2015



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Holger Semons 6/22/14
 CHIEF, BUREAU OF HIGHWAYS, DATE
 DIRECTOR OF PUBLIC WORKS, DATE

BOHLER ENGINEERING
 901 DULANEY VALLEY ROAD, SUITE 801
 TOWSON, MARYLAND 21284
 Phone: (410) 821-7900
 Fax: (410) 821-7967
 www.BohlerEngineering.com

DES. JA / A.V.G.
 D.R.N. R.M.S. / A.V.G.
 D.K.B.R.
 DATE: 6/16/14

STORM DRAIN PROFILES AND DRAINAGE AREA MAP

PARCEL NO. 4 (LOTS 1-102)
 600' SCALE MAP NO. 47 BLOCK NO. N/A

FINAL ROAD IMPROVEMENTS PLAN
 GORMAN ROAD

WALDEN WOODS
 BUILDABLE LOTS 1-97, AND OPEN SPACE LOTS 98-102
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS NOTED
 SHEET
 6
 OF
 6