VILLAGE OF HARPER'S CHOICE
HARPER'S FARM ROAD
STORM DRAIN

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
COLUMBIA, MARYLAND

DATE: 4/10/70 | SCALE: AS SHOWN | DRN. BY: R.M.

DWG. NO. 1 OF 1

COLUMBIA
MARYLAND

REMOVE EXISTING WINGWALL. PLACE NO. 9 BAR DOWELS 9 INCHES ON CENTER GROUTED INTO EXISTING WALL. DOWELS TO BE 1'-6" LONG EMBEDDED 9 INCHES INTO EXISTING WALL. PRIME EXISTING CONCRETE SURFACE WITH "SIKA EPOXY" BONDING COMPOUND OR APPROVED EQUAL. PLACE PROPOSED 42" RCCP CL IV TWO FEET AWAY FROM AND PARALLEL TO EXISTING 42" RCCP CL IV AS SHOWN ON PLAN. CONSTRUCT EXTENSION OF WALL TO CONFORM TO HO. CO. STANDARD DETAIL FOR TYPE "F" MOD. WALL.

NOTE: VEHICULAR INGRESS & EGRESS IS RESTRICTED EXCEPT AT APPROVED STREET CONNECTIONS

NOTE: EXISTING STD. MH - HOWARD CO. STD. DETAILS - PLATE #158. CONNECT 33 RCCP E & W AND 18 RCCP S

NORMAL CROWN STA. 41+28
222' SUPERELEVATION TRANSITION

EXISTING CLASS "S" COMB. INLET (DBL. GRATE) PAGE 154 OF THE HOWARD CO. ROAD CONST. CODE INV. 445.41 STA. 28+50 24' LT.

STA. - 32+77.33 - 24' LT. STANDARD CLASS "S" COMBINATION INLET (SINGLE GRATE) AS SHOWN ON PAGE 153 OF THE "HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECS." INV. 433.18

EXISTING 42" R.C.C.P. 100 L.F. AT 2.25 % CL IV

PROPOSED 42" R.C.C.P. CL IV @ 2.25%

NOTE: CONTRACTOR TO DEMOLISH BUILDING.

STA. - 40+77.36 - 24' LT. EXISTING STANDARD CLASS "S" COMBINATION INLET (SINGLE GRATE) AS SHOWN ON PAGE 153 OF THE "HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICTIONS." INV. 443.86

CONST. 200 L.F. 18" R.C.C.P. @ 1.60 % CL IV

EXIST. HW. TYPE "F" INV. 443.25

HW. TYPE "F" INV. 431.06

15' LONG 20' WIDE STORM DRAINAGE EASEMENT

Harper's Farm Road

R.O.W. LINE

S - 19° 01' 01" E 1123.06'

427 L.F. 15" R.C.C.P. @ 2.67 % CL IV

℄ INV. 430.04

S - 14° 09' 06" E 758.80'

℄ INV. 441.00

EXISTING 41 L.F. 15" R.C.C.P. @ 1.00 % CL

NOTE: FUTURE SERVICE ROAD TO BE CONSTRUCTED FOR THE HOBBITS GLEN SUBDIVISION

EXISTING 41 L.F. 24" R.C.C.P. @ 1.00 % CL IV

25' LONG 20' WIDE STORM DRAINAGE EASEMENT

EXISTING 38 L.F. 24" R.C.C.P. @ 1.47 % CL IV

25' LONG 20' WIDE STORM DRAINAGE EASEMENT

EXISTING 33" R.C.C.P. 96 L.F. AT 5.00 % CL IV

P.C. Sta. 33+72.36

P.T. Sta. 36+15.62

R = 2864.79'
Δ = 04° 51' 55"
L = 243.26'
T = 121.71'
℄ CURVE DATA

STA. 28+50 - 24' RT. CONST. STANDARD CLASS "S" COMBINATION INLET (DOUBLE GRATE) AS SHOWN ON PAGE 154 OF THE "HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECS." INV. 445.00

STA. - 32+77.33 - 24' RT. EXIST. STANDARD CLASS "S" COMBINATION INLET (SINGLE GRATE) AS SHOWN ON PAGE 153 OF THE "HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECS." INV. (IN) 432.77 INV. (OUT) 432.27

EXIST. HW. TYPE "G" INV. 428.81 42" INV. 429.56 30"

HARPERS FARM RD.

EXISTING 45 L.F. / 30" R.C.C.P. @ 6.02% CL IV

EX. 30 RCCP CL IV @ 6.02%

EX. 24" RCCP CL IV @ 1.00%

EX. 42" RCCP CL IV @ 2.25% PROPOSED

Type G Headwall

STA - 40+77.36 - 24' RT. EXISTING STANDARD CLASS "S" COMBINATION INLET (SINGLE GRATE) AS SHOWN ON PAGE 153 OF THE "HOWARD COUNTY ROAD CONSTRUCTION CODE & STANDARD SPECS." INV. (IN) 433.30 INV. (OUT) 442.80

EXISTING 35 L.F. 30" R.C.C.P. @ 12.0% CL IV

EXIST. HW. TYPE "G" INV. 438.35 33" INV. 438.60 30"

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

EXISTING 15" RCCP CL IV @ 1.00% Q = 1.46 cfs V = 1.2 f/s

EXISTING 15" RCCP CL IV @ 1.00% Q = 2.97 cfs V = 3.8 f/s

EXIST. GROUND NORTHBOUND 25' OFF R.O.W.
EXIST. GROUND SOUTHBOUND 25' OFF R.O.W.
PROPOSED FINISHED CENTERLINE
EXISTING GROUND CENTERLINE

PROPOSED EXISTING STA. 28+50.00 INLET 3 TOP OF CURB PIECE EL. 452.42

EXISTING STA. 32+77.33 INLET 3 TOP OF CURB PIECE EL. 438.08

INV. 445.00 EXISTING 427 L.F. 15" R.C.C.P. @ 2.67% CL IV Q = 7.90 cfs V = 7.1 f/s

INV. 433.27 EXISTING 42" R.C.C.P. INV. AT ℄ 430.04

M.O. 3.50 ELEV. 434.66 P.V.I. 33+0 300' V.C.

450' V.C. P.V.I. 37+25 ELEV. 457.48 M.O. 4.93

300' V.C. P.V.I. 41+50 ELEV. 442.97 M.O. 5.38

EXISTING 24" RCCP CL IV @ 1.47% Q = 9.16 cfs V = 5.1 f/s

EXISTING 33" R.C.C.P. V = 5.1 f/s INV. AT ℄ 441.00

3.98%

5.37%

3.41%

1.30%

ENLARGED

PLOTS TOP OF EXISTING INLET PIECE EL. 447.61 STA 41+00

CENTERLINE

458.42 456.44 454.46 452.48 450.50 448.52 446.54 444.56 442.58 440.60 439.71 439.01 438.51 438.20 438.08 438.16 438.43 438.91 439.57 440.42 441.48 442.72 445.41 446.69 447.85 448.89 449.81 450.59 451.27 451.82 452.26 452.55 452.74 452.80 452.74 452.54 452.26 451.83 451.29 450.60 449.80 449.02 448.13 448.00 447.73 447.63 447.71 447.94 448.35 448.83 449.67 450.98 451.66

454.3 452.3 451.5 450.4 449.8 448.4 447.2 446.4 445.2 444.0 443.9 443.0 442.6 441.9 441.8 441.5 441.6 441.9 442.3 443.5 444.6 445.5 446.4 447.2 447.9 448.4 448.9 449.5 450.2 450.8 451.3 451.9 452.4 452.7 452.9 453.0 453.0 452.9 452.7 452.4 452.1 451.7 451.3 450.8 450.3 449.7 449.1 448.4 447.7 447.0 446.3 445.6 444.9 444.2 443.5 442.8 442.1 441.7 441.6 441.8 442.1 442.5 443.0 443.6 444.2 444.8 445.4 446.0 446.6 447.2 447.8 448.3 448.8 449.3 449.7 450.1 450.5 450.8 451.1 451.4 451.6 451.8 451.9 452.0 452.1 452.1 452.1 452.1 452.0 451.9 451.8 451.6 451.4 451.2 450.9 450.6 450.3 449.9 449.5 449.1 448.7 448.3 447.8 447.4 446.9 446.4 445.9 445.4 444.9 444.4 443.9 443.4 442.9 442.4 441.9 441.4 440.9 440.4

27+0 28+0 29+0 30+0 31+0 32+0 33+0 34+0 35+0 36+0 37+0 38+0 39+0 40+0 41+0 42+0

460 450 440 430 420

STATE OF MARYLAND — GEORGE LAMBROS — No. 6519 — REGISTERED PROFESSIONAL ENGINEER

George Lambros 6519 4/10/70
ENGINEER REG. NO. DATE
GEORGE LAMBROS
ROUSE CO. — OAKLAND BUILDING
COLUMBIA, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS
Granville W. Wakeland Jr. 4-10-70
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING & ZONING
J. H. Clawson 4-10-70
CHIEF ENGINEER, DIVISION OF LAND DEV. DATE

PLAN — DATE | BY | REVISED | NOTE BOOK | NO.
PROFILE — SURVEYED | PLOTTED | GRADES CHECKED | AS BUILT | STRUCTURES NOTED
CHECKED — PLAN | PROFILE | STRUCTURES | R/W

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
46 7012 IMPERIAL™ TRACING CLOTH

F 70-60

SHEET 1 OF 1