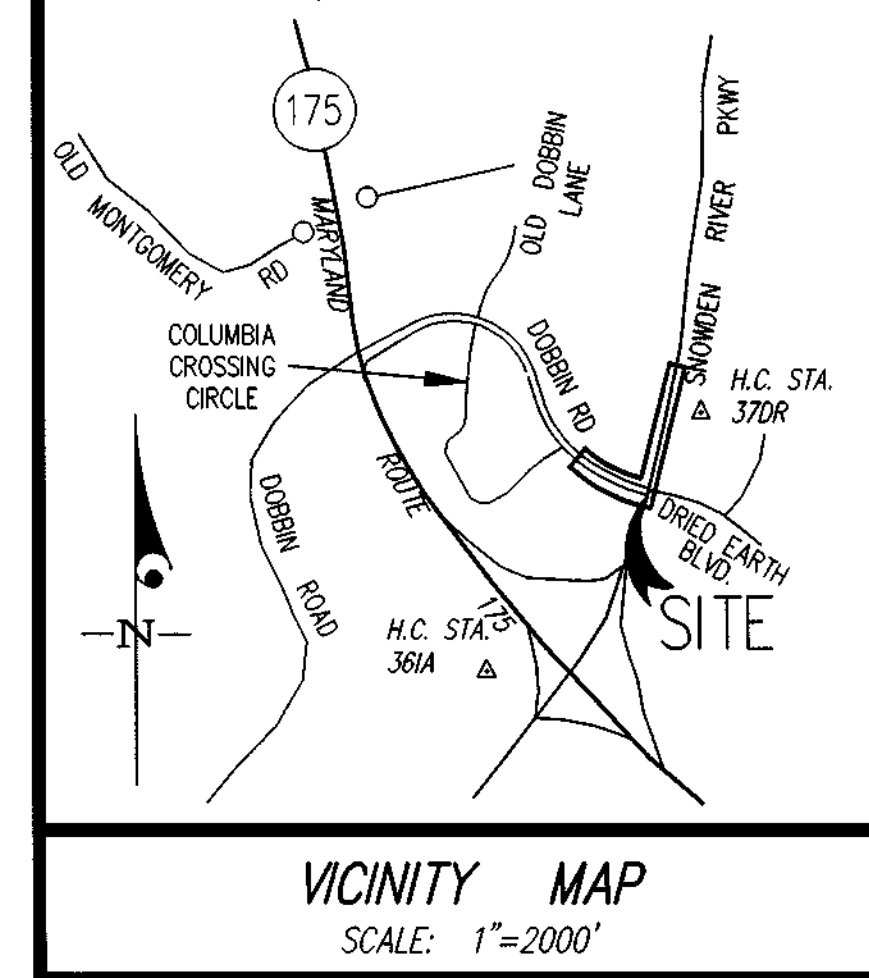


CONSTRUCTION PLAN FOR SNOWDEN RIVER PARKWAY (STA. 18+62 TO 38+40) DOBBIN ROAD (STA. 107+05 TO 111+15) DRIED EARTH BOULEVARD (STA. 0+47 TO 1+70)



GENERAL NOTES

1. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
2. PROJECT BACKGROUND:
LOCATION: DOBBIN ROAD @ SNOWDEN RIVER PARKWAY
TAX MAP: 36-18, 37-13
ZONING: NEW TOWN
ELECTION DISTRICT: 6
GROSS AREA OF TRACT: N/A
3. SEE DEPARTMENT OF PLANNING & ZONING FILE NUMBERS: S 99-05, FDP-235, PB-337, WP-99-117, WP-00-24, WP-99-41, SDP-01-09, F-00-20 & F-00-149.
4. THE TOPOGRAPHY SHOWN HAS A 2' CONTOUR INTERVAL AND WAS DETERMINED BY A FIELD SURVEY PREPARED BY GUTSCHICK, LITTLE AND WEBER IN THE SUMMER OF 2000.
5. PUBLIC WATER AND SEWER TO BE UTILIZED.
SITE IS IN METROPOLITAN DISTRICT.
6. HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY CONTROL STATIONS 37DR AND 361A
7. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM BEST AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALL CROSSINGS WELL IN ADVANCE OF CONSTRUCTION. ANY DISCREPANCIES MUST BE COMMUNICATED TO THE ENGINEER AT ONCE.
8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
9. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS /DIVISION OF CONSTRUCTION INSPECTION AT 1 (410) 313 - 1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
10. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS.
MISS UTILITY 1-800-257-7777
BELL ATLANTIC COMPANY 729-9976
HOWARD COUNTY BUREAU OF UTILITIES 313-4900
AT&T CABLE LOCATION DIVISION 393-3553
BALTIMORE GAS & ELECTRIC CO. 850-4620 & 787-9068
11. TYPES OF STORM DRAINS REFER TO THE STANDARD DETAILS OF HOWARD COUNTY AND MSHA.
12. TRENCH COMPACTION FOR STORM DRAINS WITHIN ROADS AND STREET RIGHT-OF-WAYS LIMITS SHALL BE IN ACCORDANCE WITH "HOWARD COUNTY DESIGN MANUAL", VOL. IV, STANDARD G-2.01.
13. SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH "1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOILS EROSION AND SEDIMENT CONTROL".
14. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
15. STREET TREES SHALL BE PLANTED A MINIMUM OF FIVE (5) FEET FROM STORM DRAIN, WATERLINE OR SEWER PIPE MANHOLES; ALSO A MINIMUM OF TWENTY (20) FEET FROM STREET LIGHTS.
16. COMPACTION IN FILL AREAS SHALL BE IN ACCORDANCE WITH AASHTO T-180 OR AS APPROVED IN THE DESIGN MANUAL VOLUME IV.

ON JULY 1, 1999, WP-99-117, WAIVER OF SECTION 16.144 (I), WAS GRANTED, TO NOT BE REQUIRED TO SUBMIT A PRELIMINARY PLAN, SUBJECT TO VARIOUS CONDITIONS IN THE APPROVAL LETTER.

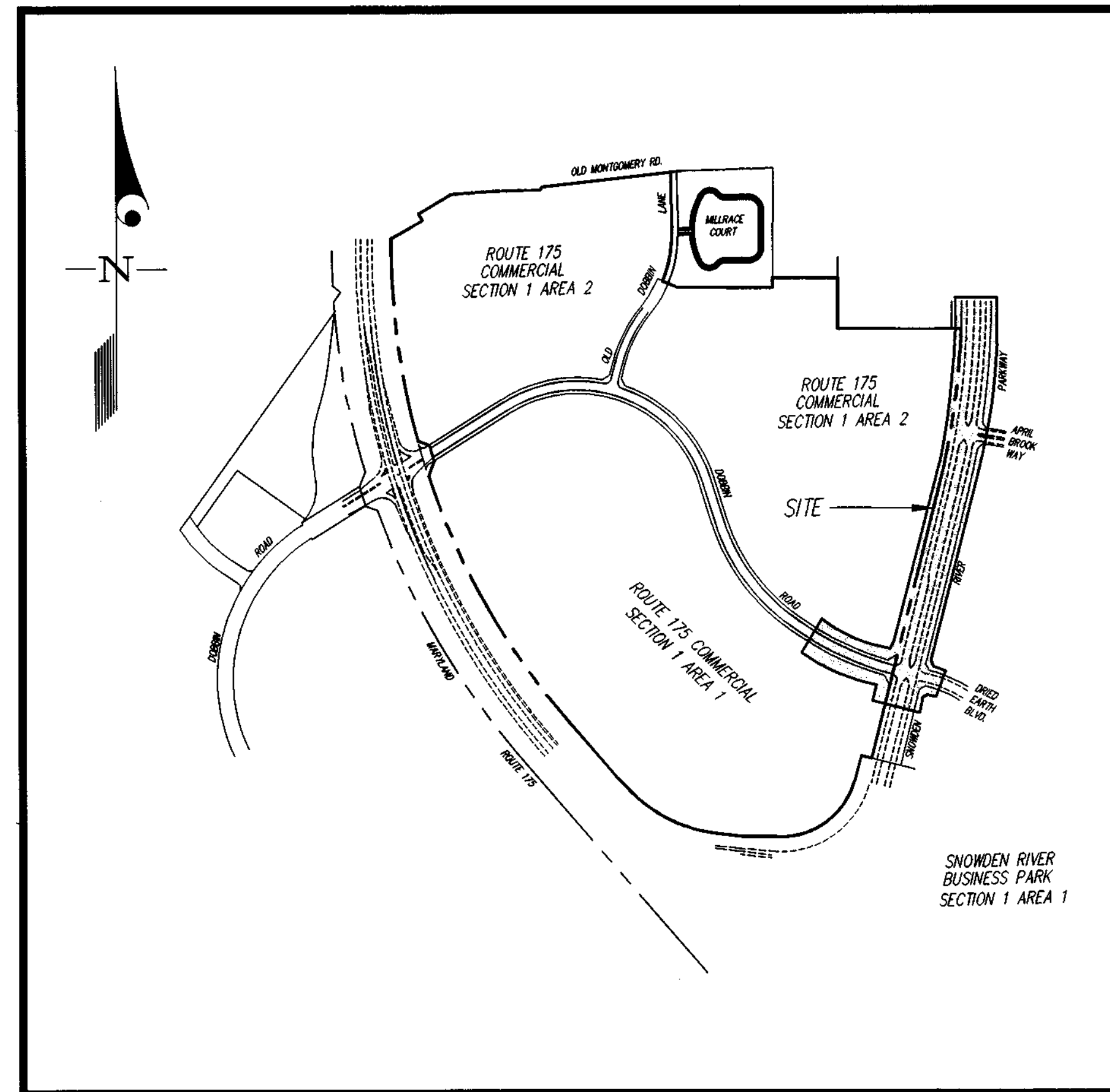
ON OCTOBER 1, 1999, WP-00-24, WAIVER OF SECTION 16.144, WAS GRANTED, TO REACTIVATE SKETCH PLAN S-99-05 AND GRANT A 45 DAY EXTENSION TO SUBMIT THE SKETCH PLAN FOR SIGNATURE.

ON OCTOBER 5, 1999, CR-126-1999 WAS ADOPTED, APPROVING THE ABANDONMENT OF A PORTION OF OLD MONTGOMERY ROAD.

ON MARCH 23, 1999, WP-99-41, WAIVER OF SECTION 16.144(I), WAS APPROVED TO PERMIT A PRIVATE COMMERCIAL DRIVEWAY DIRECT ACCESS TO AN ARTERIAL ROAD, SUBJECT TO VARIOUS CONDITIONS IN THE APPROVAL LETTER.

FLOODPLAIN TABLE

Point or Line No.	Bearing & Distance	Elevation
1	S 77°02'48" E 75.77'	357.7
2	N 64°51'00" E 42.57'	357.9
3	N 78°15'48" E 163.31'	358.0
4	S 70°24'09" E 83.90'	359.0
5	S 59°58'16" E 136.91'	361.1
6	S 31°58'03" E 68.14'	364.0
7	S 52°45'41" E 81.11'	364.7
8	S 17°07'44" E 87.38'	365.8
9	N 79°09'17" E 7.15'	366.3
10	N 05°15'16" E 93.78'	366.3
11	N 30°14'10" W 87.59'	366.3
12	N 60°15'42" E 143.83'	366.3
13	N 80°42'24" E 72.77'	366.3
14	N 09°23'26" W 15.26'	366.3
15	S 87°32'16" W 121.86'	366.3
16	N 81°20'21" W 134.26'	366.3
17	N 59°20'45" W 95.34'	364.2
18	N 73°15'53" W 289.75'	362.4
19	N 49°08'45" W 65.24'	358.1
20	N 77°39'59" W 64.45'	357.8
21		357.7



LEGEND

- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
-
-
-
- EXIST. CURB/CURB & GUTTER
- PROP. CURB & GUTTER
- EXISTING PAVING
- PROPOSED PAVING
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING STREET TREES
- PROPOSED STREET TREES
- PROPOSED STORM DRAIN
- EX. SIGN

BENCHMARK DESCRIPTION

STATION 2542001 (CONCRETE MONUMENT)
ELEV. 426.971 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED ON B.G. & E. TRANSMISSION LINES 1080± S.W. OF DOBBIN ROAD

BENCHMARK DESCRIPTION

STATION 2542002 (CONCRETE MONUMENT)
ELEV. 363.638 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED 1000± WEST OF RTE. 175 ON TRANSMISSION LINE @ B.G. & E. TOWER 19±

BENCHMARK DESCRIPTION

STATION 37DR (1/2 REBAR)
N.169881.1794, E.416566.7155 (FOR HORIZONTAL CONTROL ONLY)
STATION IS LOCATED 0.45± MILES NORTH OF RTE. 175 AND 46± EAST OF THE EAST CURB OF SNOWDEN RIVER PKWY.

BENCHMARK DESCRIPTION

STATION 361A (CONCRETE MONUMENT)
N.169205.9263, E. 416313.5119 (FOR HORIZONTAL CONTROL ONLY)
STATION IS LOCATED @ THE SOUTHEAST CORNER OF THE INTERSECTION OF SNOWDEN RIVER PARKWAY AND RTE. 175 3± FROM CURB AND 5.7± FROM GRADORAIL END.

INDEX OF SHEETS

1. COVER SHEET
2. PLAN & PROFILE
3. PLAN & PROFILE
4. GRADING, SEDIMENT CONTROL & DRAINAGE AREA MAP
5. SEDIMENT CONTROL NOTES AND DETAILS
6. STORM DRAIN PROFILES
7. SIGNING & STRIPING PLAN
8. DETAIL SHEET
9. TRAFFIC SIGNAL PLAN
10. MAINTENANCE OF TRAFFIC PLAN

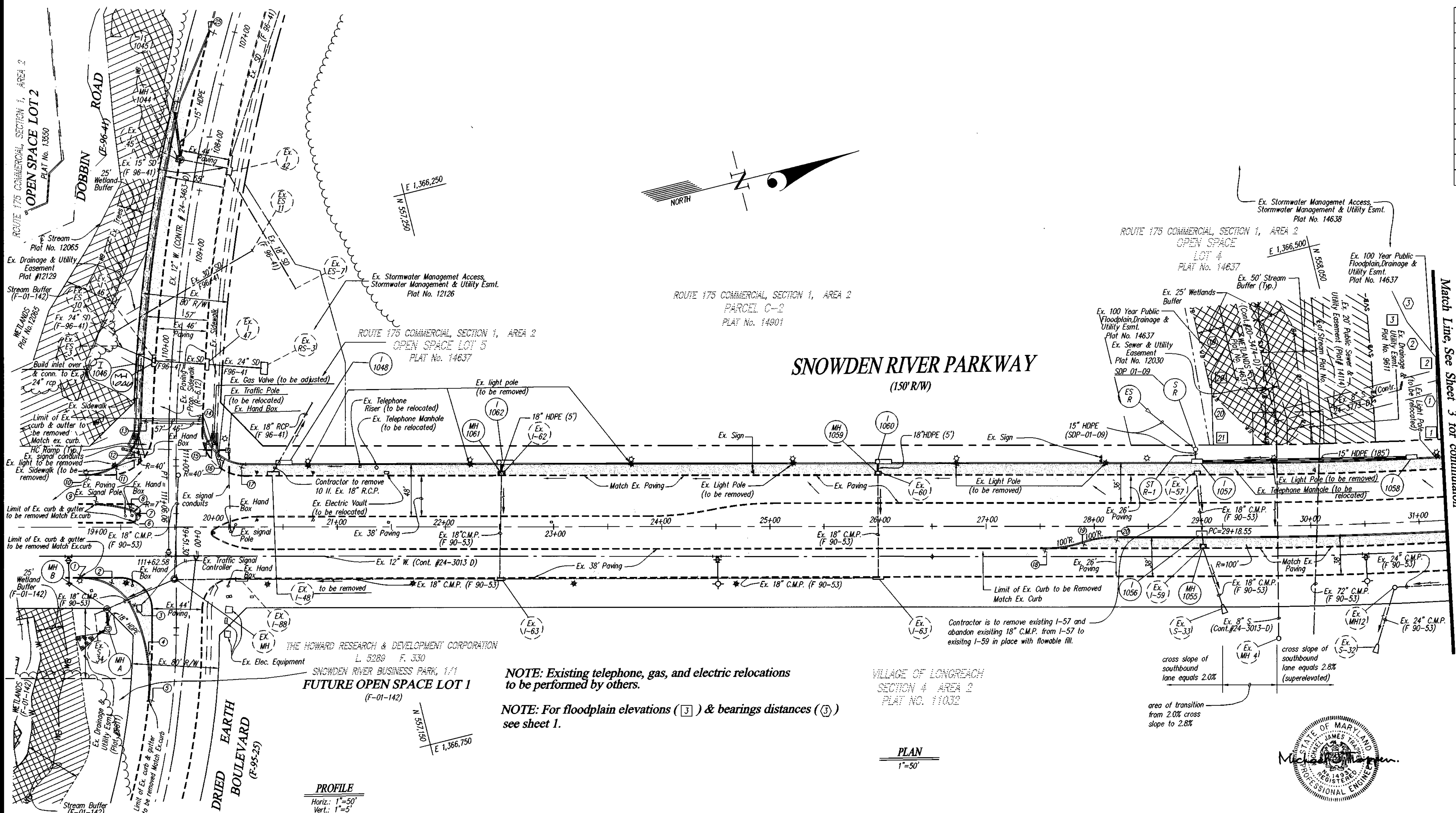
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Daniels 11-15-01
Chief, Bureau of Highways HS Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
David W. Smith 12/4/01
Chief, Division of Land Development Date

Chad D. Williams 11/28/01
Chief, Development Engineering Division MK Date



GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20886 TEL: 301-421-4024 BALT: 410-886-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	PREPARED FOR: THE HOWARD RESEARCH & DEVELOPMENT CORP. THE ROUSE BUILDING 10275 LITTLE PATUMENT PARKWAY COLUMBIA, MD. 21044		COVER SHEET SNOWDEN RIVER PARKWAY (Sta. 18+62 to 38+40) DOBBIN ROAD (Sta. 107+05 to 111+15) DRIED EARTH BOULEVARD (Sta. 0+47 to 1+70) TAX MAP 37, PARCELS 50 & 255, GRID 19		SCALE AS SHOWN	ZONING NEW TOWN	G. L. W. FILE No. 95003
	DATE Sept., 2001	TAX MAP - GRID 36-18 37-13	SHEET 1 OF 10	HOWARD COUNTY, MARYLAND			



STREET LIGHT SCHEDULE			
LOCATION	LAMP TYPE	MOUNTING	POLE TYPE
Sta. 20+73, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 22+23, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 23+72, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 25+21, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 26+72, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 28+50, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 29+67, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 31+19, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 18+68, Offset 61' L	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 18+94, Offset 51' R	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass

CURB ELEVATION TABLE				
PT. No.	STATION	OFFSET	ELEVATION	REMARKS
1	18+62.08	47.20' R		MATCH EX
2	18+88.01	51.79' R	361.94	CATCH
3	04+69.06	43.10' R		CATCH
4	14+14.66	26.93' R	360.41	CATCH
5	14+63.64	21.83' R		MATCH EX
6	19+13.22	4.64' L		MATCH EX
7	19+14.85	11.23' L	362.89	SPILL
8	19+09.44	16.33' L	362.89	SPILL
9	18+77.02	21.75' L		MATCH EX
10	18+94.15	47.89' L		MATCH EX
11	18+94.15	54.94' L	362.05	CATCH
12	111+00.78	48.51' R	361.37	CATCH
13	110+67.61	32.72' R	360.69	CATCH
14	110+62.50	23.71' L		MATCH EX
15	110+85.25	29.98' L	362.03	CATCH
16	19+93.92	64.09' L	362.27	CATCH
17	20+15.61	57.71' L	362.52	CATCH
18	27+50.10	20.01' R		MATCH EX
19	27+87.60	14.98' R	371.63	SPILL
20	28+25.10	9.94' R	372.06	SPILL
21	107+04.60	22.34' R		MATCH EX

DATE	REVISION	BY	APPR.

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

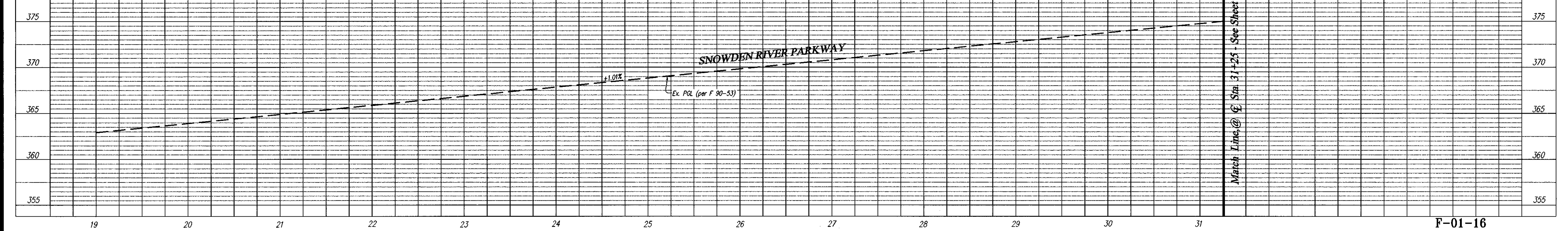
DESIGNED DEV	ROAD CONSTRUCTION PLAN SNOWDEN RIVER PARKWAY STATION 18+62 TO 38+40 DOBBIN ROAD STATION 107+05 TO 111+15 DRIED EARTH BOULEVARD STATION 0+47 TO 1+70 TAX MAP 37, PARCELS 50 & 255, GRID 19 8TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=50'
DRAWN JAU		DRAWING 2 OF 10
CHECKED MJT		ZONING NEW TOWN
DATE Sept., 2001		JOB No. 95003

LOWES\95003\DESIGN\95003SRP2.DWG

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard M. Anale 11/15/01
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cindy Krivtsov 12/14/01
 Chief, Division of Land Development Date

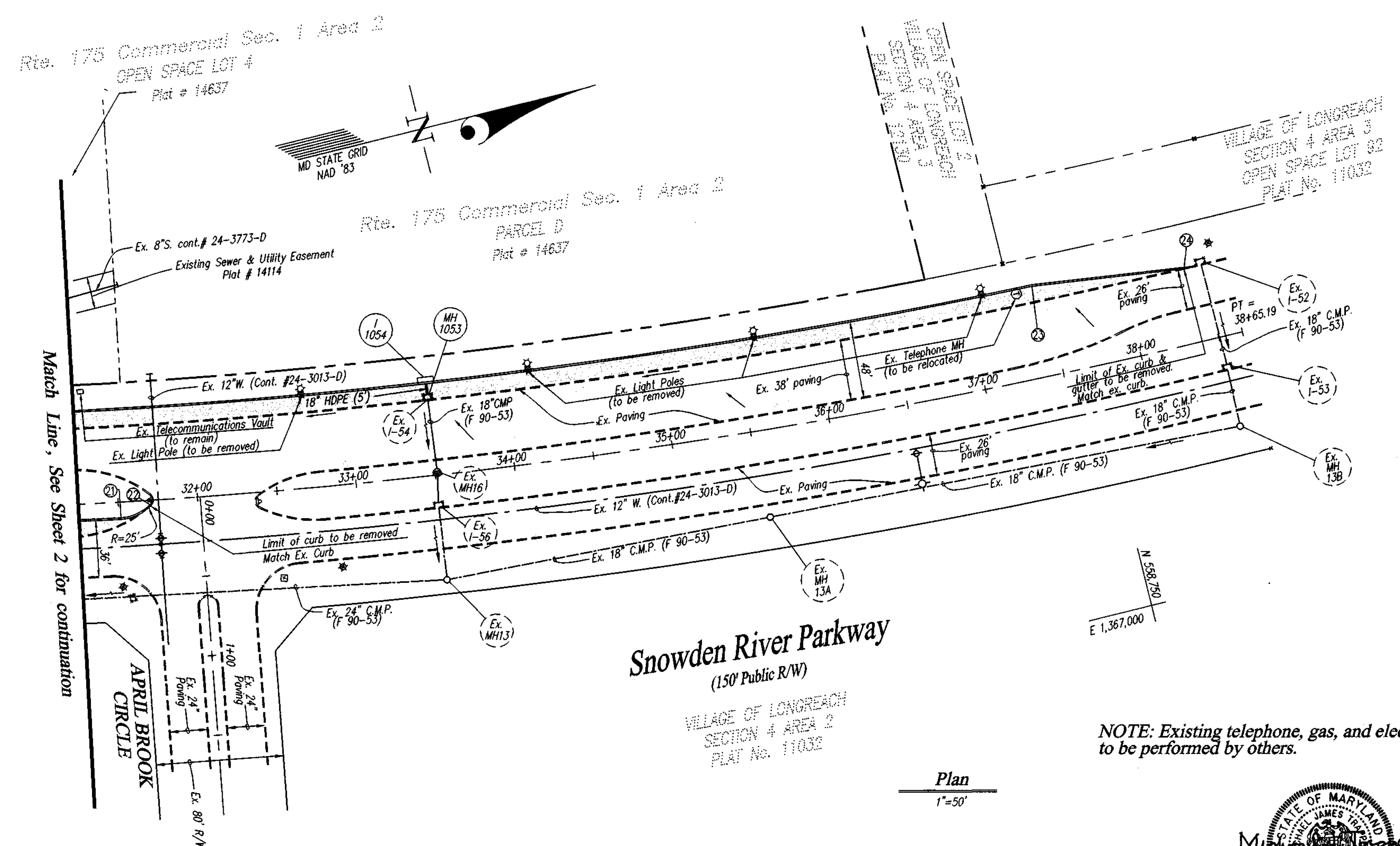
Mike Roman 11/28/01
 Chief, Development Engineering Division MK Date



LOCATION	LAMP TYPE	MOUNTING	POLE TYPE
Sta. 32+51, Offset 61'	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 34+76, Offset 61'	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 35+61, Offset 61'	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass
Sta. 37+09, Offset 61'	250 Watt H.P.S. Vapor Pendant (Cut-Off)	12' Arm	30' Bronze Fiberglass

Q CURVE DATA			
STATION	△	RADIUS	TANGENT
PC=29+18.55 to PT=38+65.19	13° 51' 06"	3915.67	946.64

CURB ELEVATION TABLE				
PT. No.	STATION	OFFSET	ELEVATION	REMARKS
①	31+51.24	10.78' R	375.11	CATCH
②	31+70.43	3.48' R	---	MATCH EX.
③	37+42.02	57.23' L	379.36	CATCH
④	38+40.68	46.69' L	---	MATCH EX.



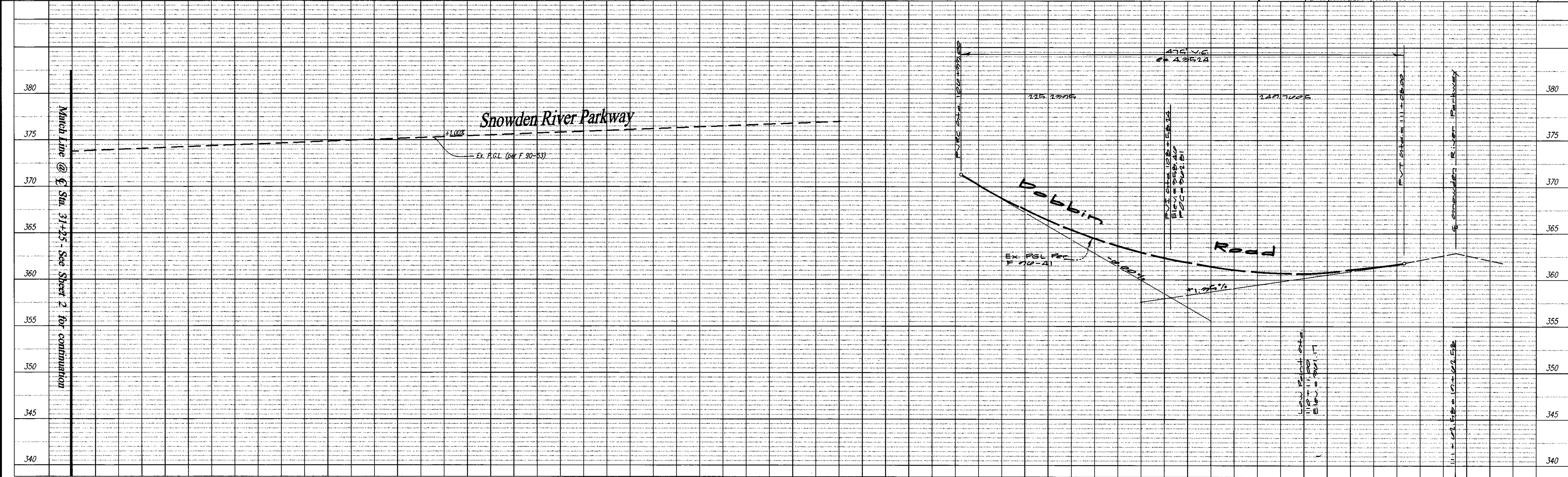
NOTE: Existing telephone, gas, and electric relocations to be performed by others.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert M. Cavale 11-15-01
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cynthia Karaster 11/14/01
 Chief, Division of Land Development Date

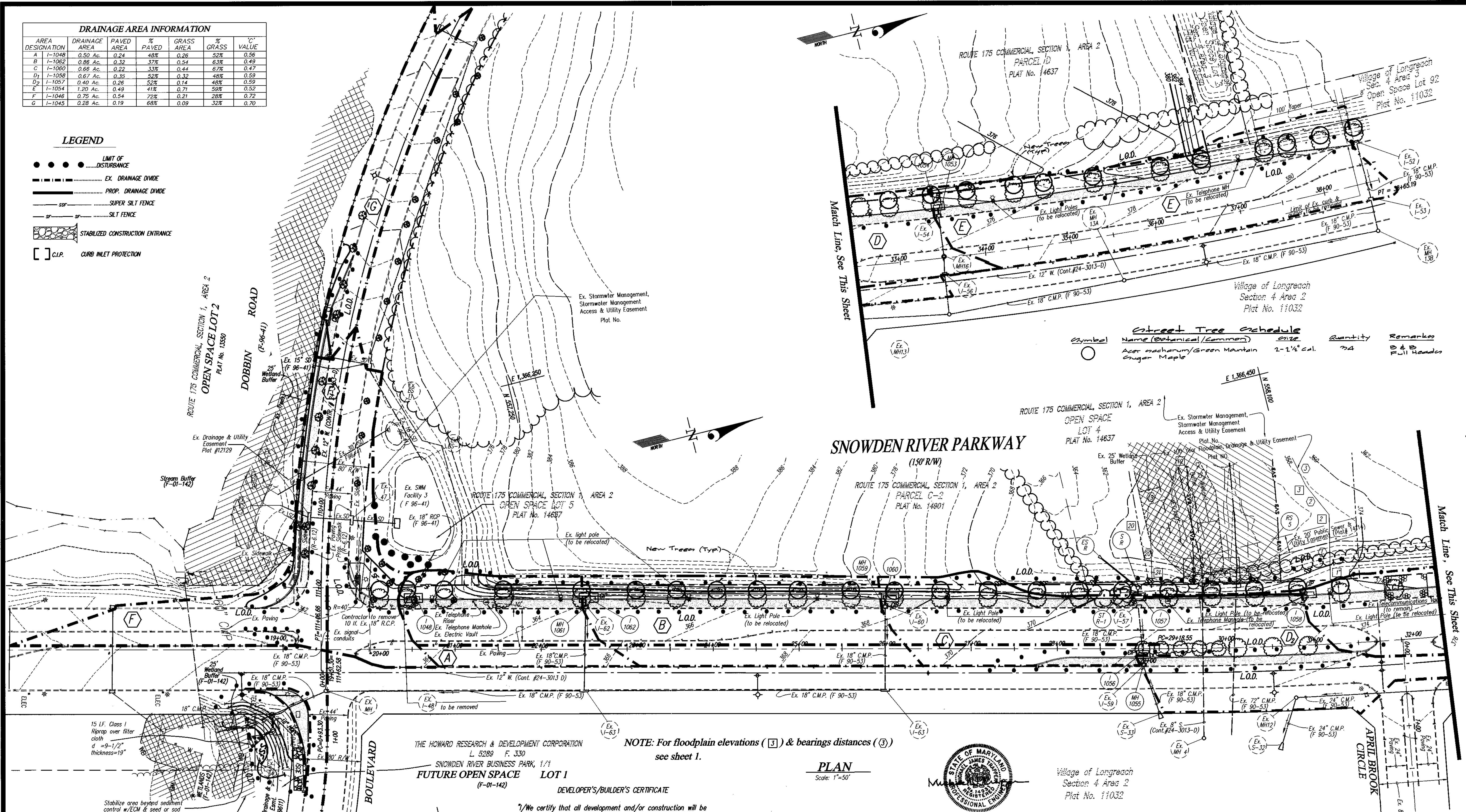
Mark 11/28/01
 Chief, Development Engineering Division Date



DRAINAGE AREA INFORMATION						
AREA DESIGNATION	DRAINAGE AREA	PAVED AREA	% PAVED	GRASS AREA	% GRASS	C' VALUE
A	I-1048	0.50 Ac.	0.24	48%	0.26	0.56
B	I-1062	0.86 Ac.	0.32	37%	0.54	0.49
C	I-1060	0.66 Ac.	0.22	33%	0.44	0.47
D ₁	I-1058	0.67 Ac.	0.35	52%	0.32	0.59
D ₂	I-1057	0.40 Ac.	0.26	52%	0.14	0.59
E	I-1054	1.20 Ac.	0.49	41%	0.71	0.52
F	I-1046	0.75 Ac.	0.54	72%	0.21	0.72
G	I-1045	0.28 Ac.	0.19	68%	0.09	0.70

LEGEND

- ● ● ● ● LIMIT OF DISTURBANCE
- - - - - EX. DRAINAGE DIVIDE
- - - - - PROP. DRAINAGE DIVIDE
- - - - - SUPER SILT FENCE
- - - - - SILT FENCE
- ▨ STABILIZED CONSTRUCTION ENTRANCE
- [] C.I.P. CURB INLET PROTECTION



Symbol	Name (Botanical/Common)	Size	Quantity	Remarks
○	Acer macrocarpum/Green Mountain Sugar Maple	2-1 1/2" cal.	74	B & B Full Heads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 APPROVED: *[Signature]* 11-15-01
 Chief, Bureau of Highways

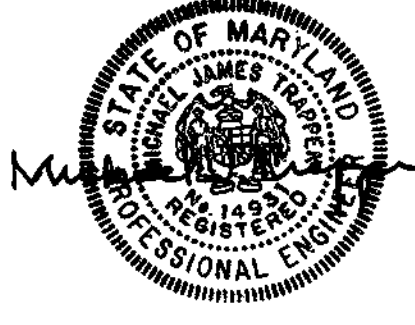
HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 APPROVED: *[Signature]* 12/1/01
 Chief, Division of Land Development

HOWARD COUNTY DEPARTMENT OF ENGINEERING
 APPROVED: *[Signature]* 11/20/01
 Chief, Development Engineering Division

THE HOWARD RESEARCH & DEVELOPMENT CORPORATION
 L. 52289 F. 330
 SNOWDEN RIVER BUSINESS PARK, 1/1
 FUTURE OPEN SPACE LOT 1
 (F-01-142)
 DEVELOPER'S/BUILDER'S CERTIFICATE

NOTE: For floodplain elevations (③) & bearings distances (⑤) see sheet 1.

PLAN
 Scale: 1"=50'



ENGINEER'S CERTIFICATE

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.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

[Signature]
 Signature of Developer/Builder

12/10/00
 Date

[Signature]
 Signature of Engineer

7/27/01
 Date

[Signature]
 Natural Resources Conservation Service

[Signature]
 Howard S.C.D.

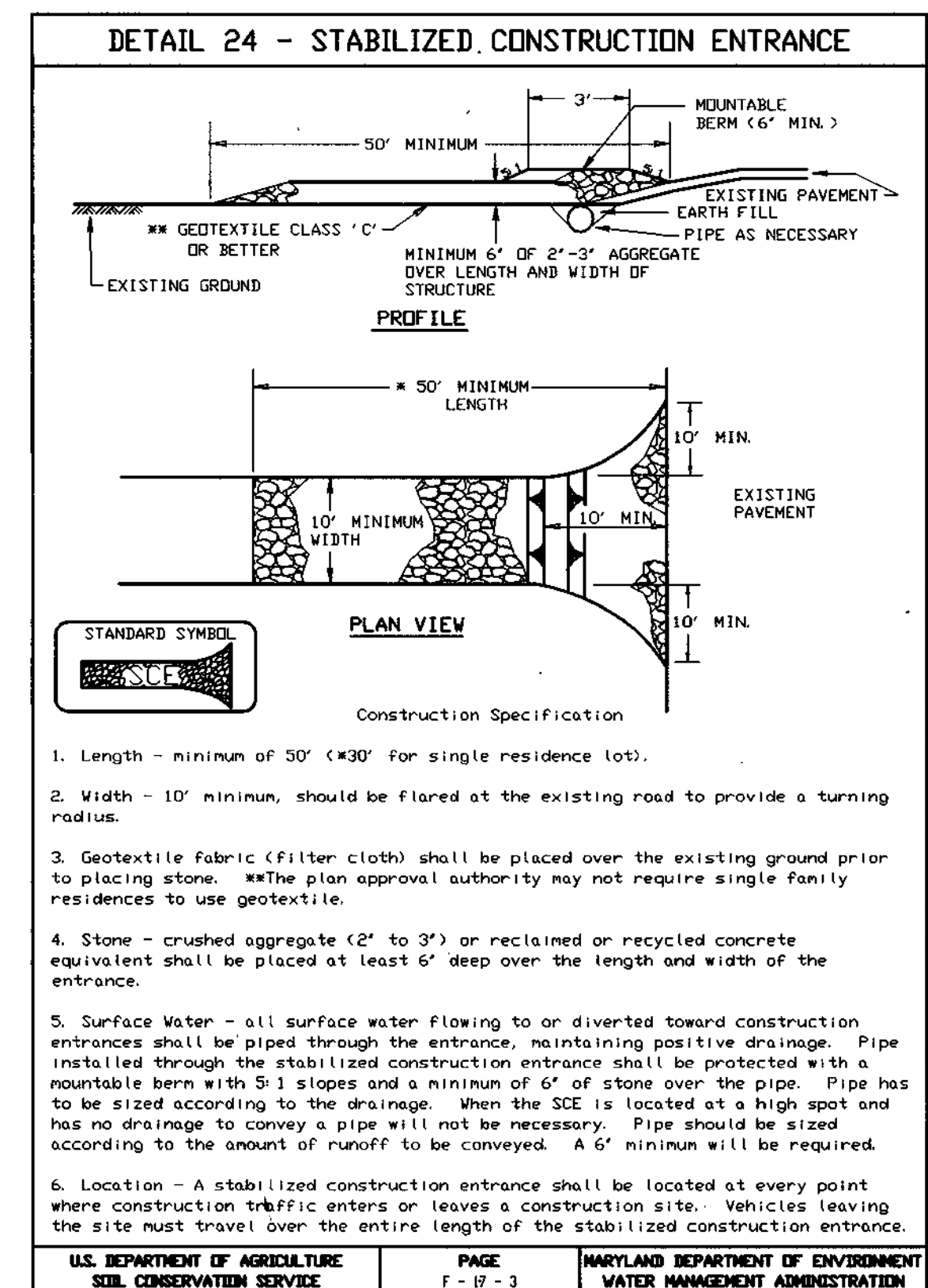
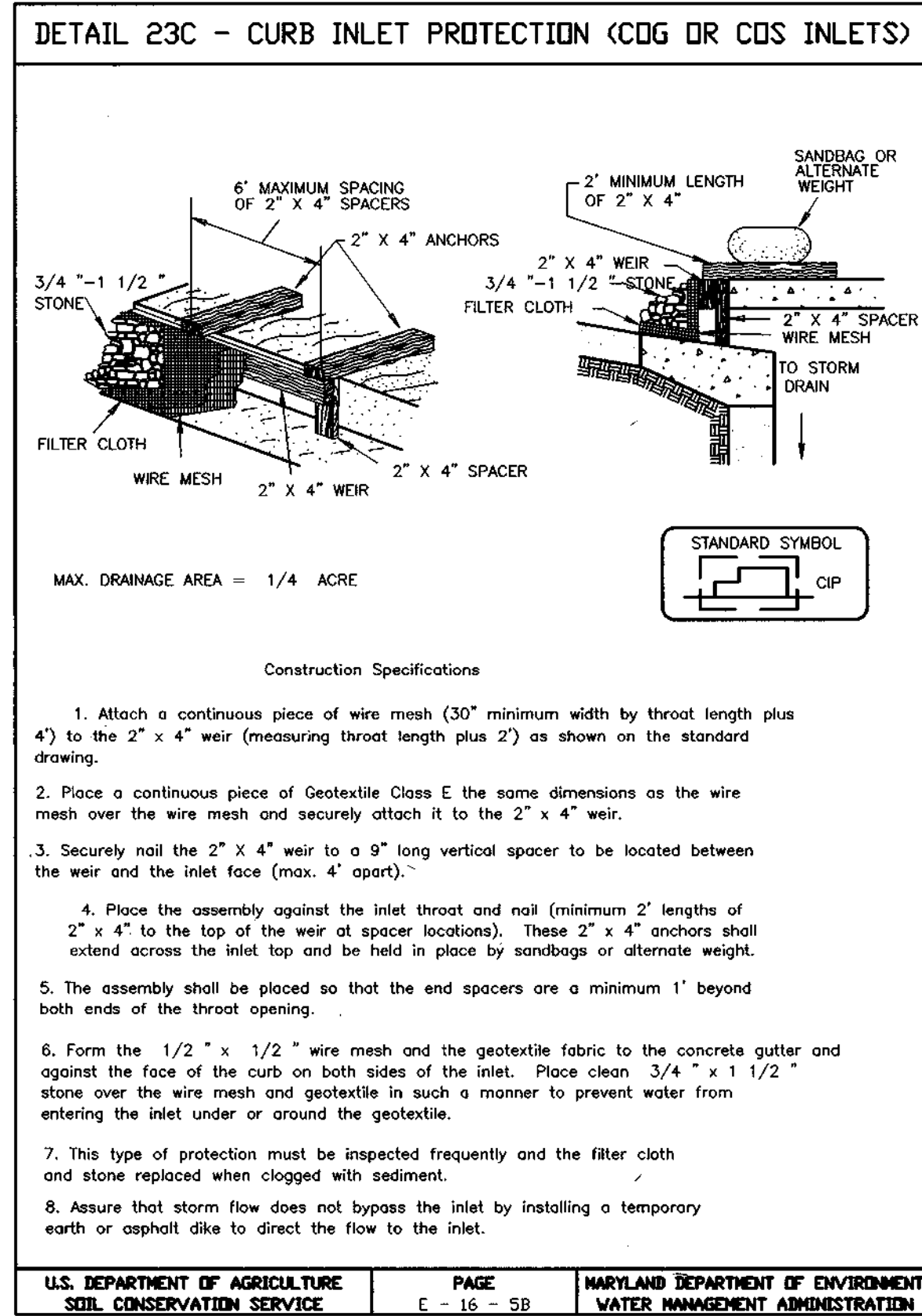
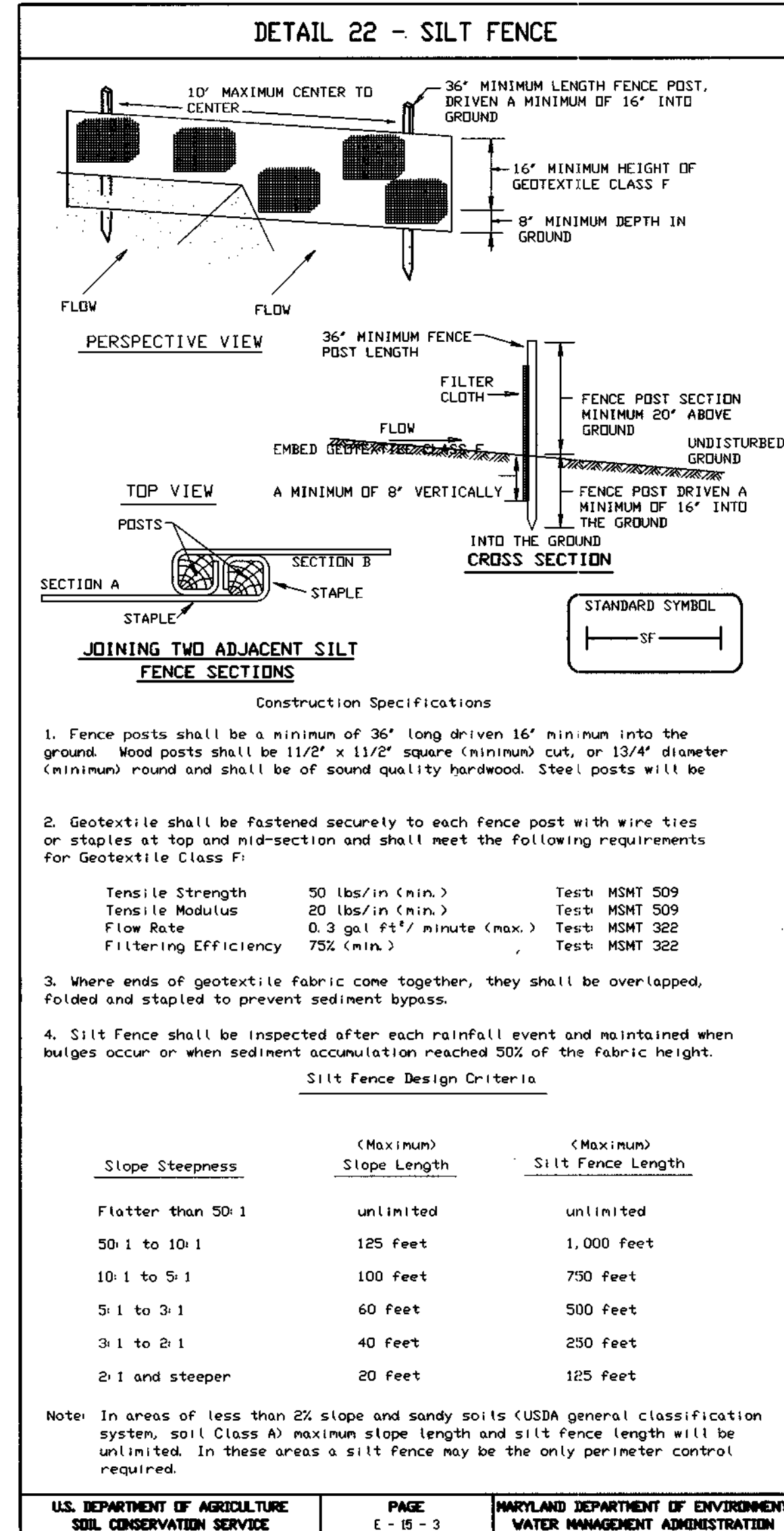
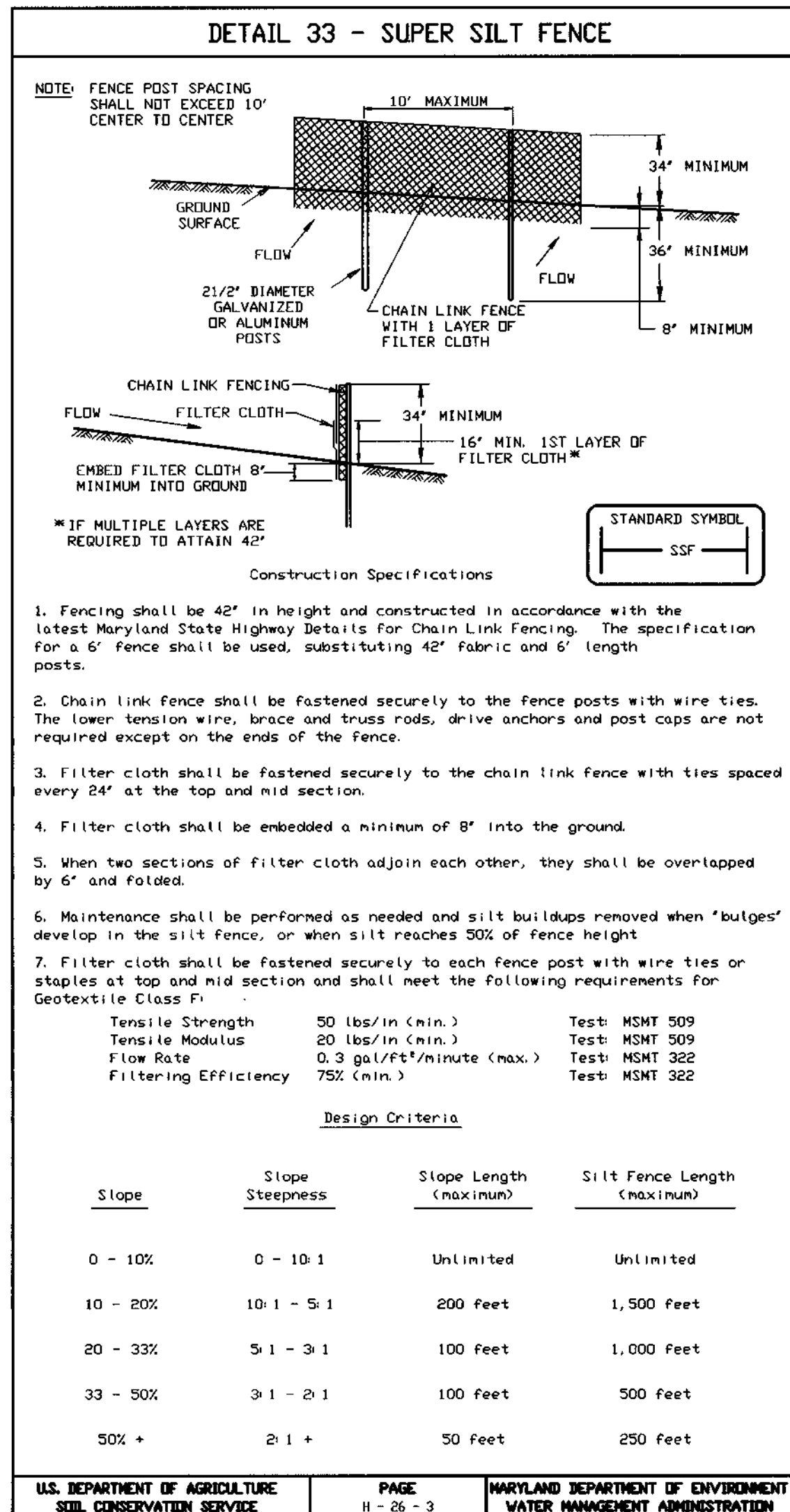
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 220 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4196

DATE	REVISION	BY	APPR.

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MD. 21044

GRADING, SEDIMENT CONTROL AND DRAINAGE AREA MAP
 SNOWDEN RIVER PARKWAY (Sta. 18+62 to 38+40)
 DOBBIN ROAD (Sta. 107+05 to 111+15)
 DRIED EARTH BOULEVARD (Sta. 0+47 to 1+70)
 TAX MAP 37, PARCELS 50 & 255, GRID 19
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
1"=50'	NEW TOWN	95003
DATE	TAX MAP - GRID	SHEET
Sept., 2001	36-18 37-13	4 OF 10



PERMANENT SEEDING NOTES

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

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) 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 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/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, weed-free, 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.

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.

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless 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 October 15, seed with 2-1/2 bushel per acre of annual ryegrass (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, weed-free, 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 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1994 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. (410) 313-1855.
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 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 and 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, sod, temporary seeding and mulching (Sec. 6). 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	: 2.15 Acres±
Area Disturbed	: 2.15 Acres±
Area to be roofed or paved	: 0.82 Acres
Area to be vegetatively stabilized	: 1.33 Acres±
Total Cut	: 1287 Cu. Yds.
Total Fill	: — Cu. Yds.

 Off-site waste/borrow area location: Rte. 175 Commercial Sec.1, Area 2 Parcel D (SDP 01-09)
- 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 control must be provided, if deemed necessary by the Howard County DPW 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.
- Trenches for the construction of utilities is limited to 3 pipe lengths or that which shall be backfilled and stabilized within one working day, whichever is shorter.

ENGINEER'S CERTIFICATE

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.

Michael J. Trapper 9/27/01
Signature of Engineer Date

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and/or 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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD.

Jim Mues 10/10/01
Signature of Developer/Builder Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

John L. Roberts 10/10/01
Howard S.C.D. Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Approved: *Robert M. Dwyer* 11-15-01
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Approved: *Andy Hamilton* 12/14/01
 Chief, Division of Land Development Date

Approved: *John D. Williams* 11/20/01
 Chief, Development Engineering Division Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 200 - BURTONVILLE OFFICE PARK
 BURTONVILLE, MARYLAND 20886
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-589-2524 FAX: 301-421-4186

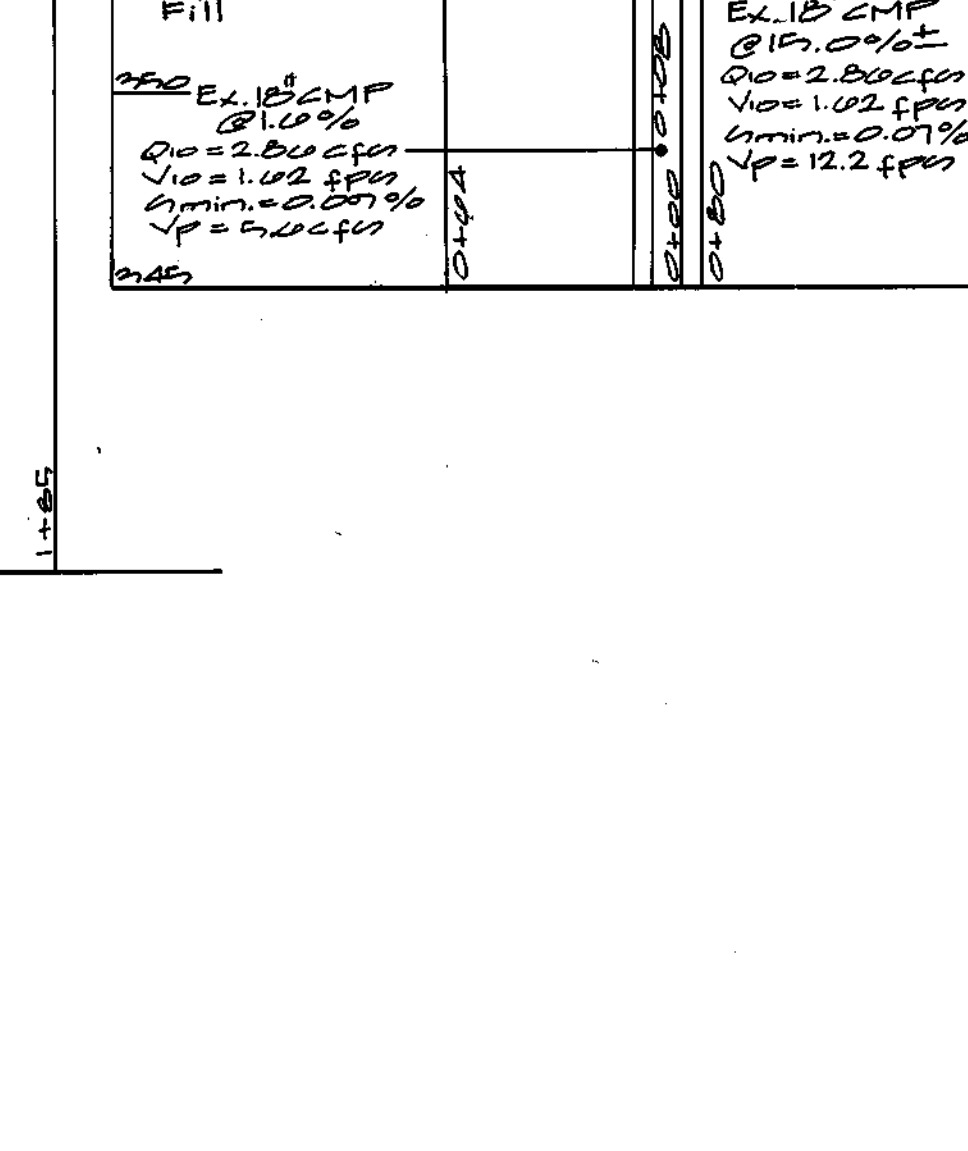
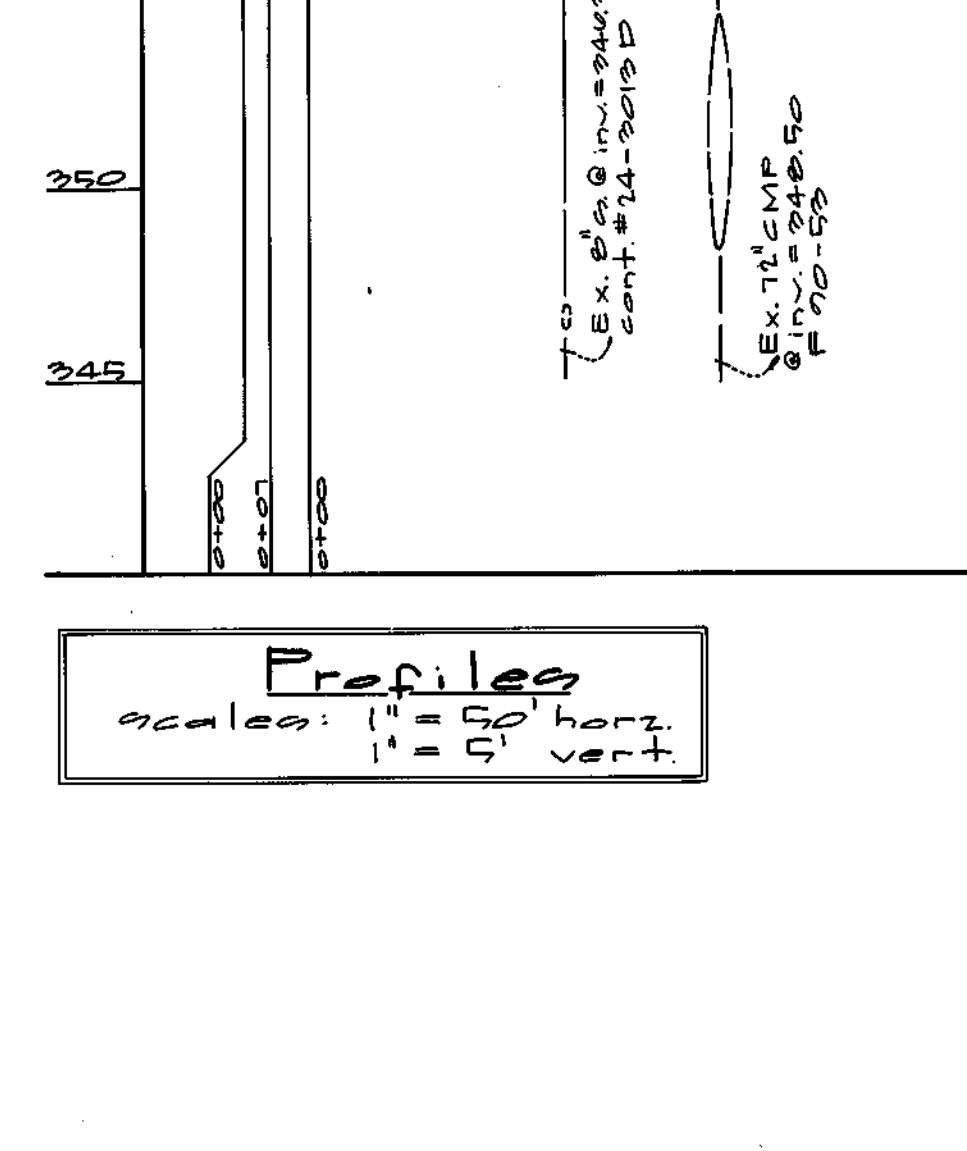
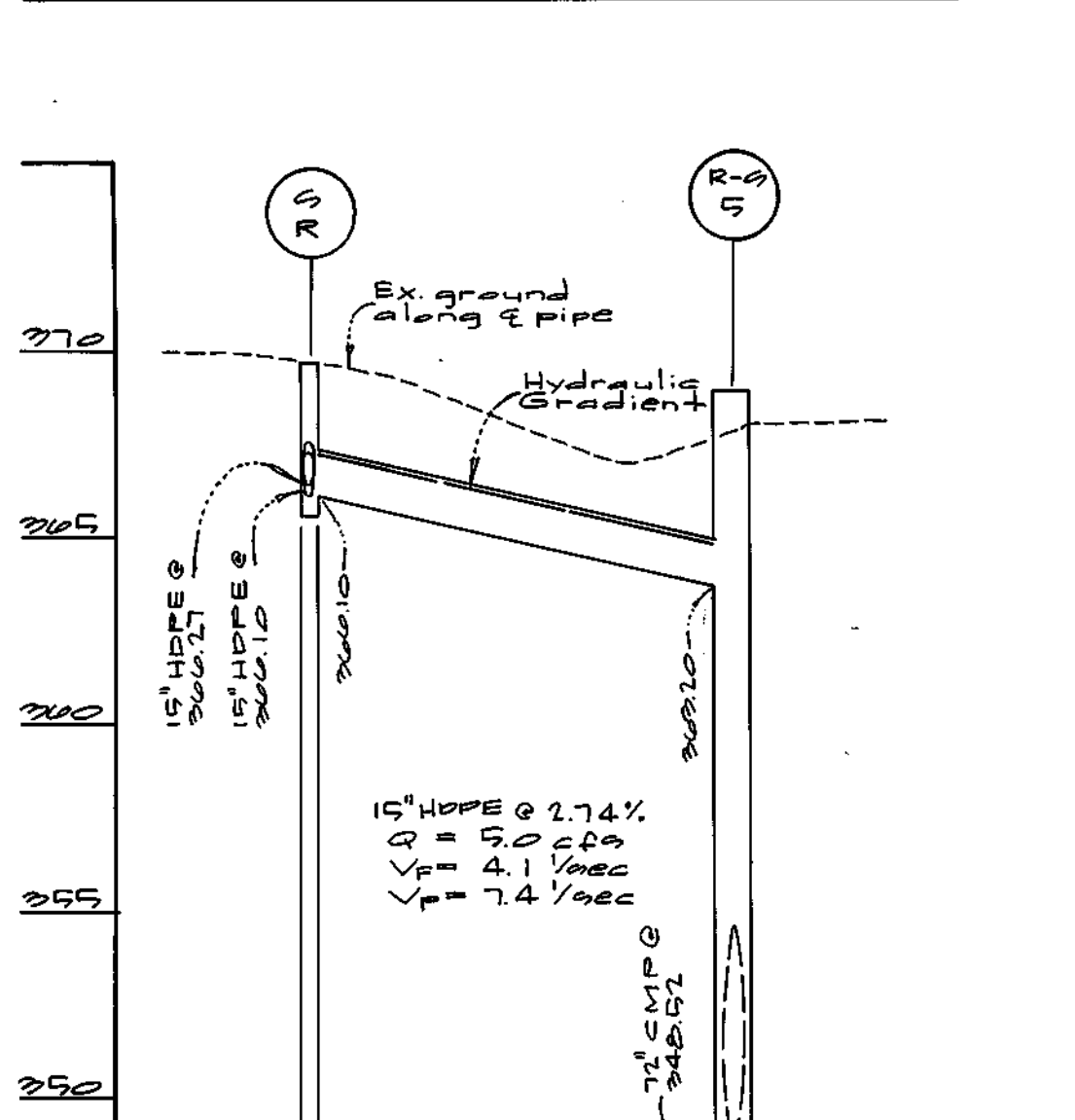
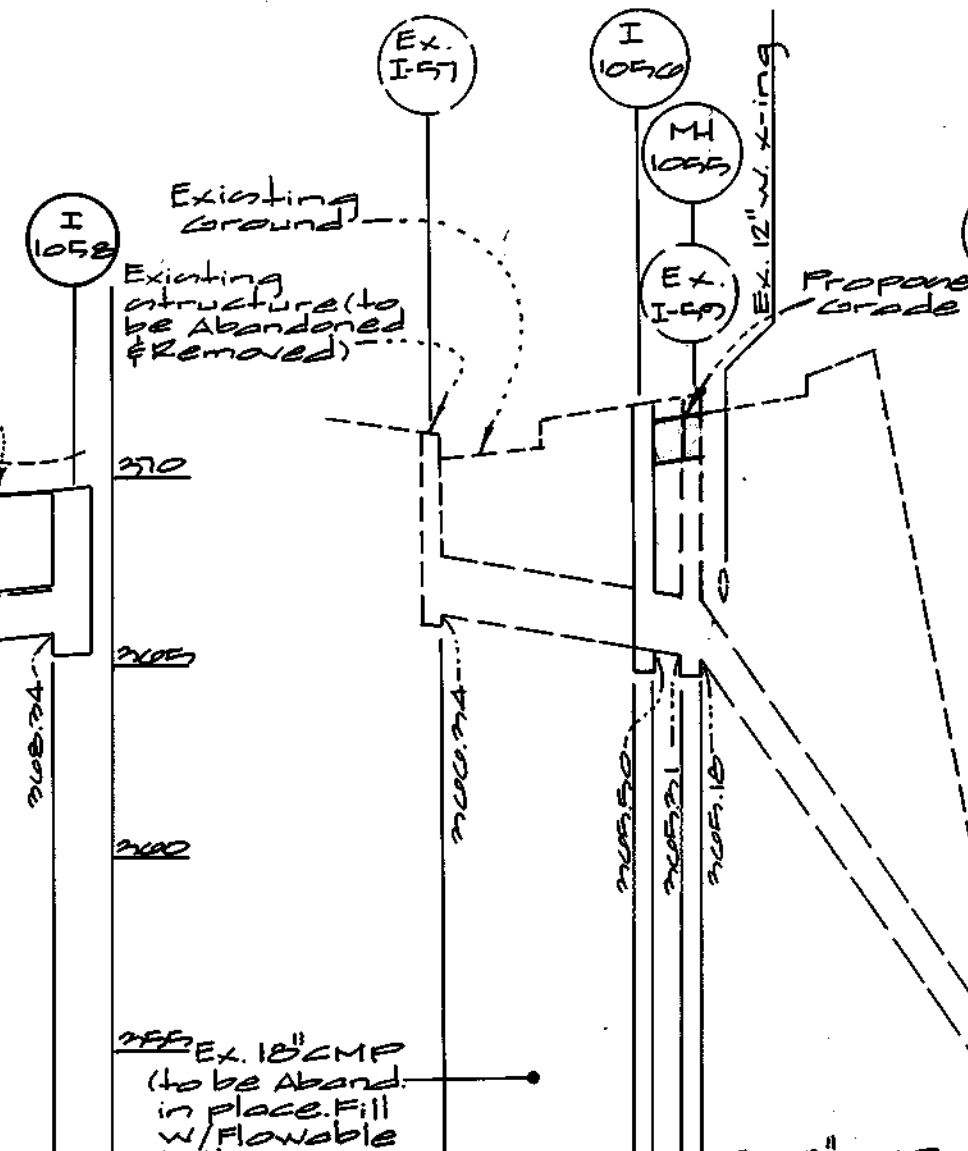
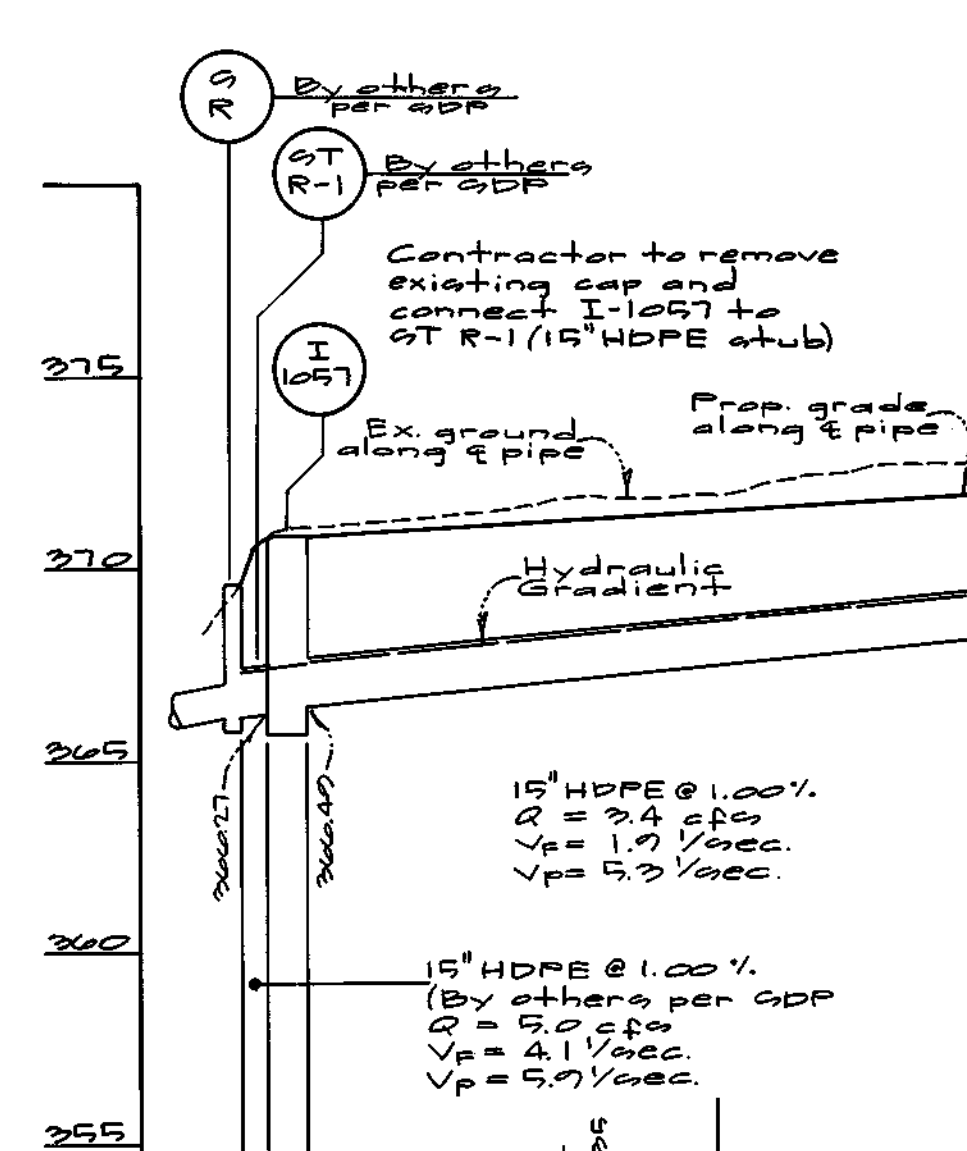
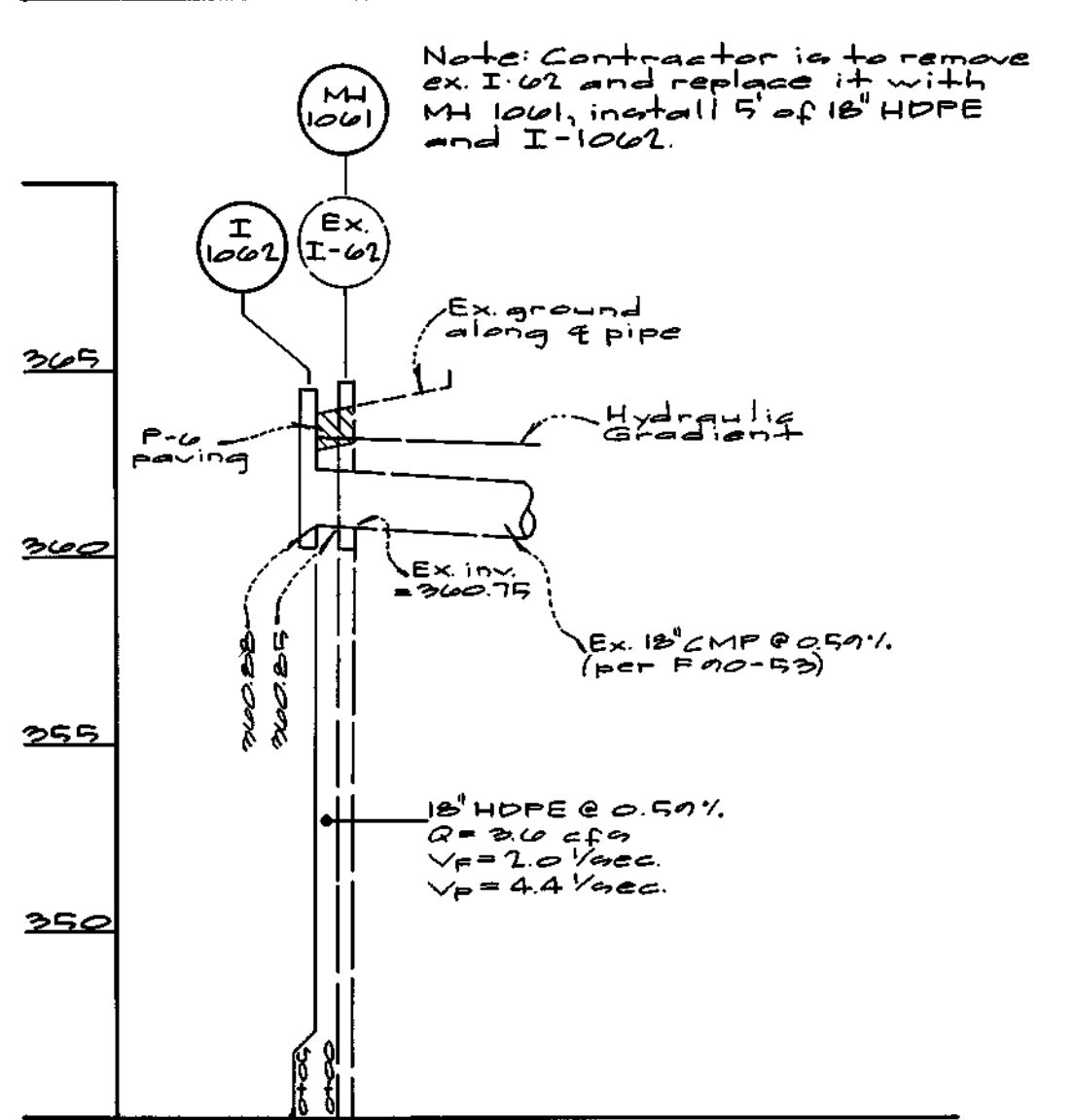
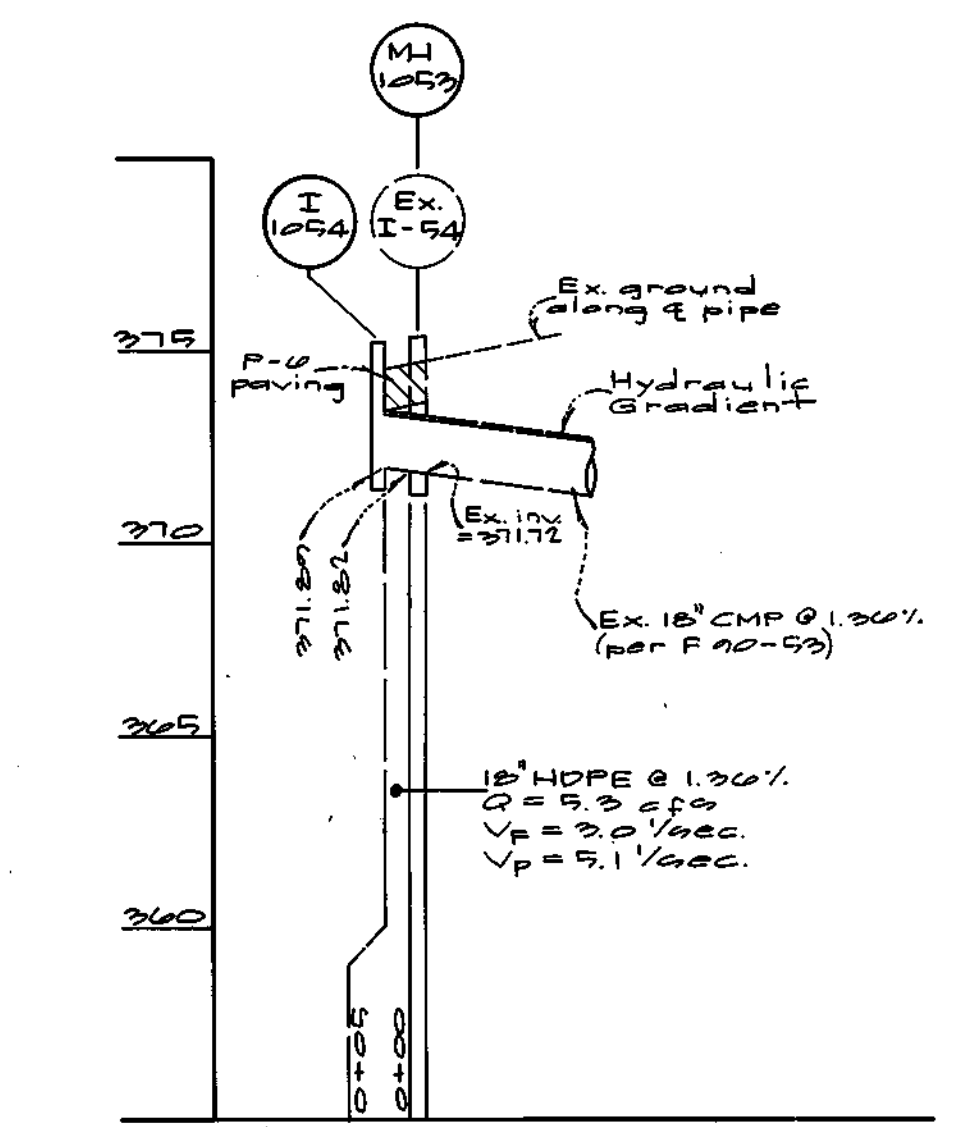
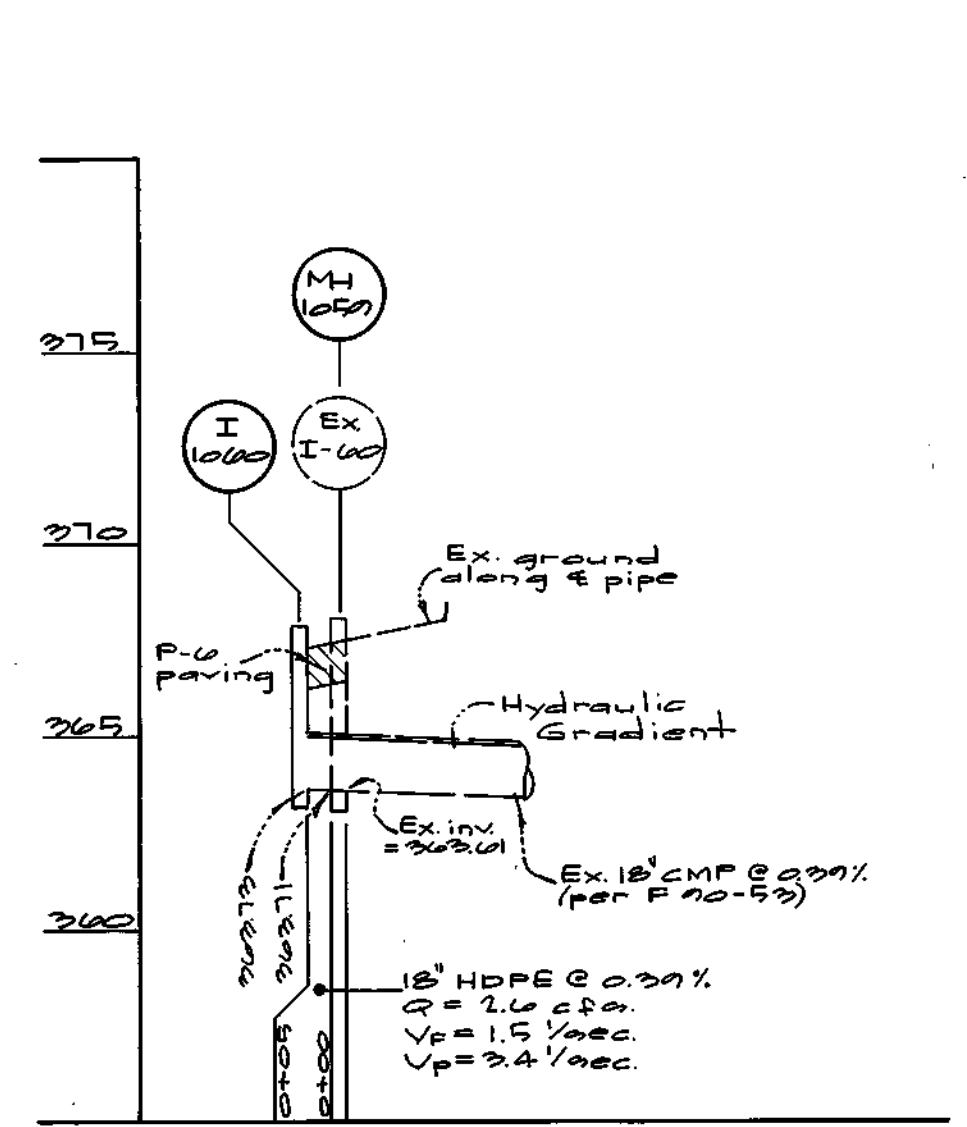
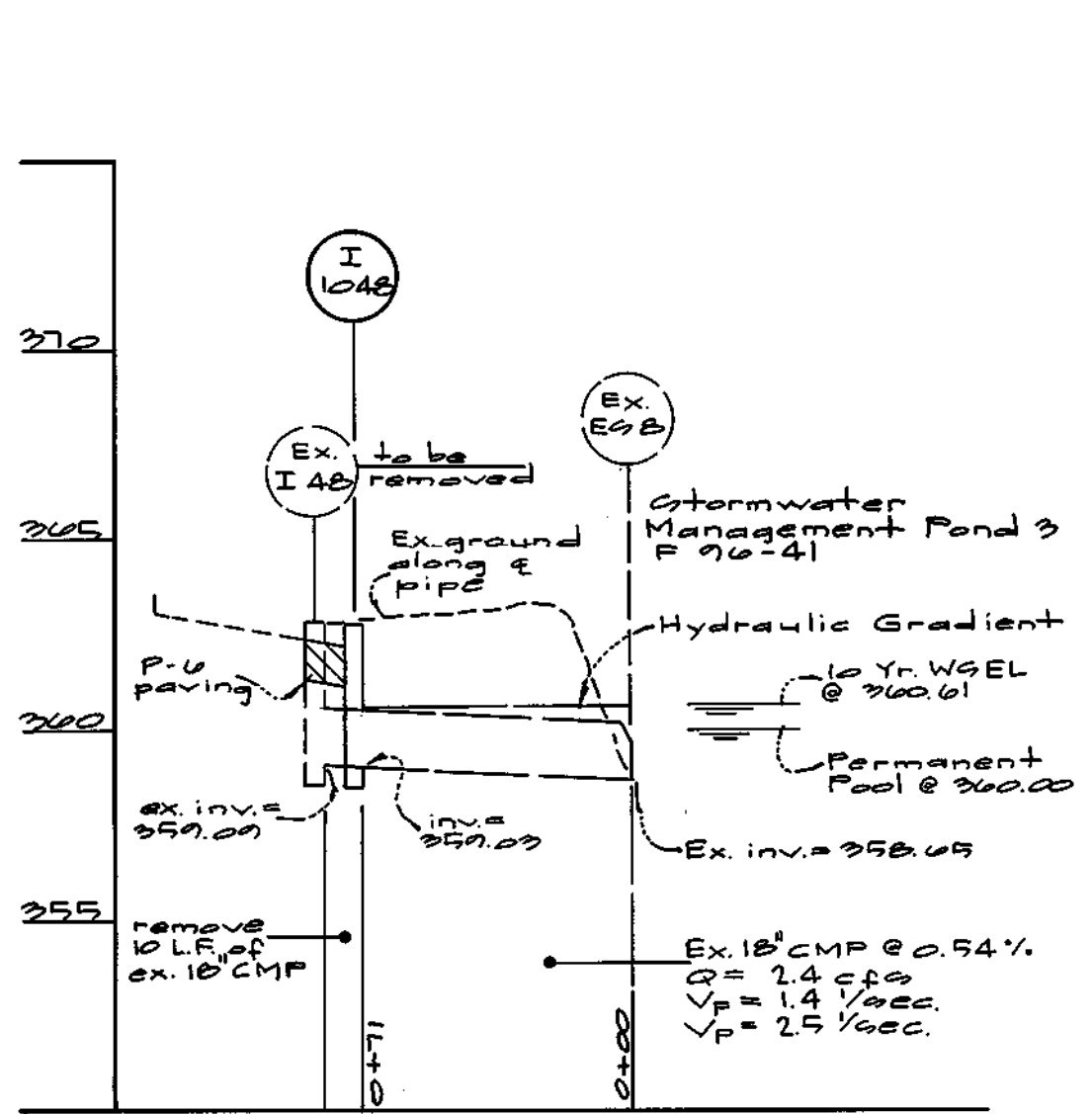
DRAWINGS\95003\DESIGN\95003SRP5.DWG DES. DEV DRN. JAU CHK.

DATE	REVISION	BY	APPR.

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATENT PARKWAY
 COLUMBIA, MD. 21044

SEDIMENT CONTROL NOTES AND DETAILS
 SNOWDEN RIVER PARKWAY (Sta. 18+62 to Sta. 38+40)
 DOBBIN ROAD (Sta. 107+05 to 111+15)
 DRIED EARTH BOULEVARD (Sta. 0+47 to 1+70)
 TAX MAP 37, PARCELS 50 & 255, GRID 19
 ELECTION DISTRICT No. 6
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	NEW TOWN	95003
DATE	TAX MAP - GRID	SHEET
Sept., 2001	36-18 37-13	5 OF 10



Approved: Department of Public Works
Robert M. Qualls 11-15-01
 Chief, Bureau of Highways Date

Approved: Department of Planning and Zoning
Cindy Hromada 12/14
 Chief, Division of Land Development Date

Chris Dammann 1/2/02
 Chief, Development Engineering Division MK Date

Profiles
 scaled: 1" = 50' horiz.
 1" = 5' vert.

* Contractor shall Field Verify Width of Manhole Required to Fit Field Conditions Prior to Precasting.

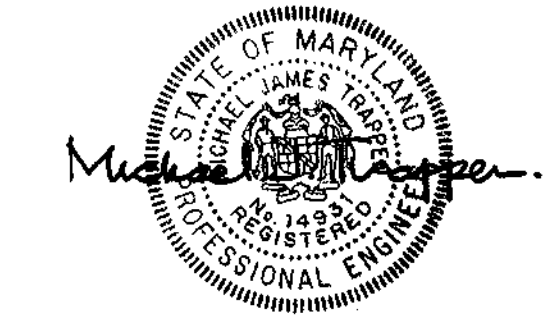
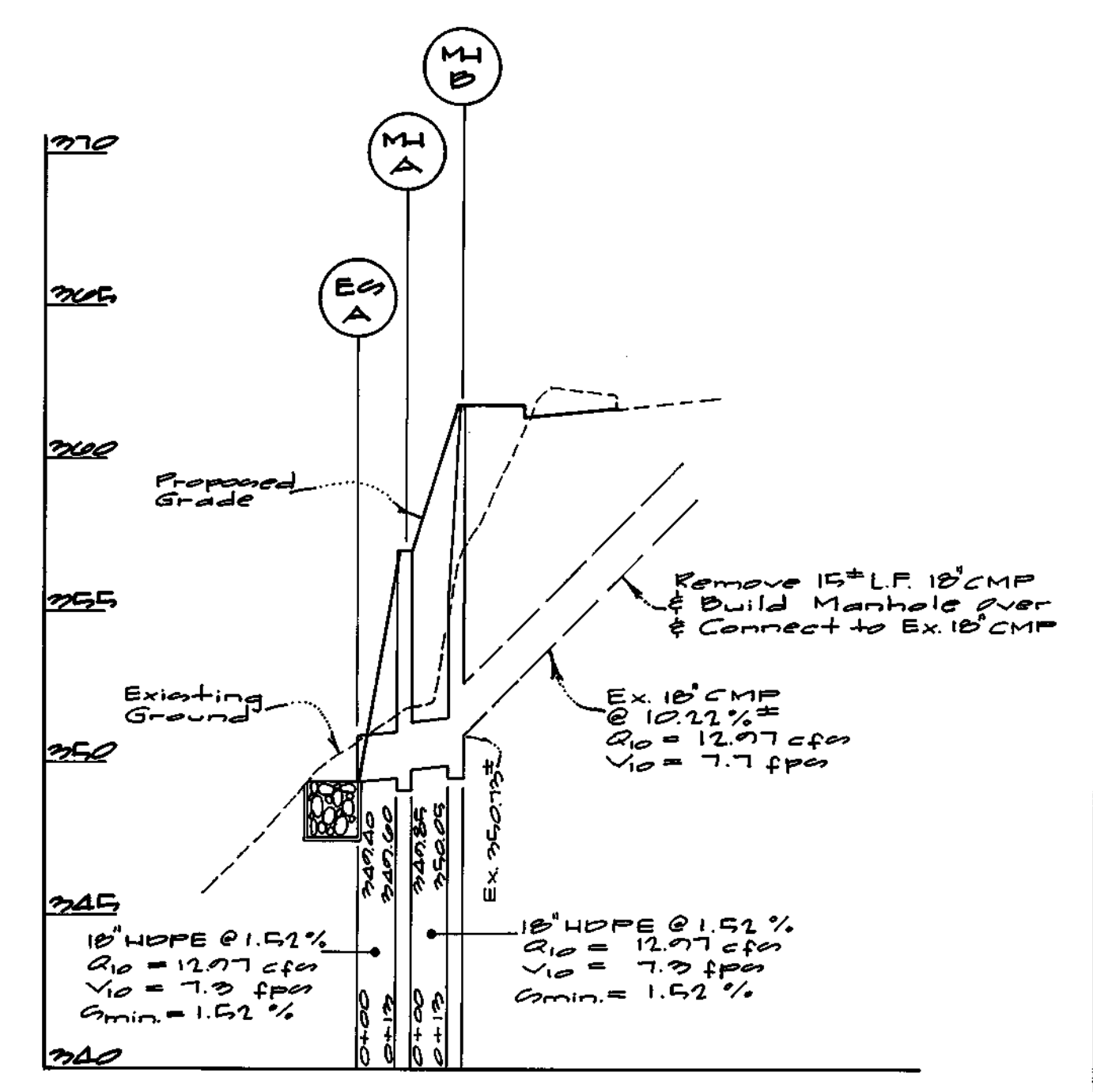
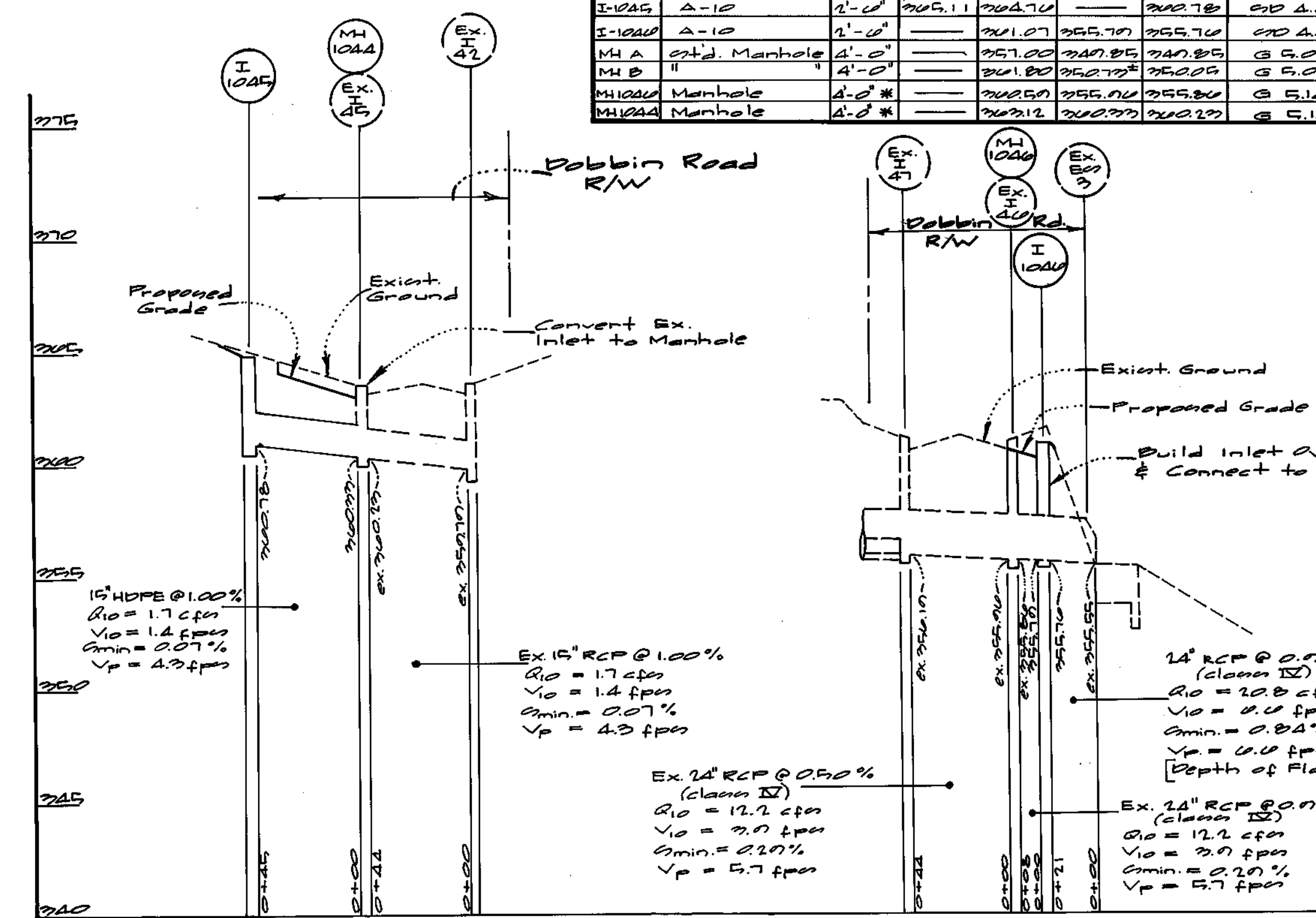
Structure Schedule

No.	Type	Width (inside)	Top Elevation	Invert Elevation	Upper	Lower	St'd Detail	Locations	Remarks
MH1059	Manhole	4'-0"	271.70	271.82	271.72	271.72	G. 5.14	29+50.04 40.16' Lt	Snowden River Parkway
MH1060	Manhole	4'-0"	271.65	272.71	272.61	272.61	G. 5.14	10+00 40.15' Lt	
MH1061	Manhole	4'-0"	271.60	272.75	272.65	272.65	G. 5.14	22+51.05 40.15' Lt	
MH1062	Manhole	4'-0"	271.55	272.79	272.69	272.69	G. 5.01	20+00.00 18.81' Lt	
I-1046	CS-15	4'-0"	272.73	272.63	272.63	272.63	MD 374.02	10+51.13 57.81' Lt	
I-1048	CS-15	4'-0"	271.14	271.07	271.07	271.07	MD 374.02	23+50.44 57.95' Lt	
I-1057	A-10	3'-0"	271.00	270.93	270.93	270.93	GD 4.41	18+05.17 58.02' Lt	
I-1059	A-10	3'-0"	272.00	271.93	271.93	271.93	GD 4.41	20+05.94 57.92' Lt	
I-1060	CS-15	4'-0"	272.18	272.09	272.09	272.09	MD 374.02	10+05.40 57.97' Lt	
I-1061	CS-15	4'-0"	272.03	271.93	271.93	271.93	MD 374.02	22+55.44 57.78' Lt	
I-1062	A-10	2'-0"	272.10	272.11	272.11	272.11	GD 4.41	20+00.00 0.00' Rt	
I-1063	A-10	2'-0"	272.11	272.11	272.11	272.11	GD 4.41	107+00.00 0.00' Rt	Robbin Road
I-1064	A-10	2'-0"	271.07	255.70	255.70	255.70	GD 4.41	110+11.00 0.00' Rt	
MH A	std. Manhole	4'-0"	271.00	270.85	270.85	270.85	G. 5.01	See Plan	
MH B	std. Manhole	4'-0"	271.00	270.85	270.85	270.85	G. 5.01	See Plan	
MH1065	Manhole	4'-0"	272.50	272.00	272.00	272.00	G. 5.14	110+11.00 2.00' Rt	
MH1066	Manhole	4'-0"	272.12	272.23	272.23	272.23	G. 5.14	108+00.00 2.00' Rt	

Pipe Schedule

Size	Type	Quantity	Remarks
15"	HDPE	230'	
18"	HDPE	15'	

Note: Dimensions shown are to the center of a manhole and to the center of an inlet at the face of curb.



GW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20886
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

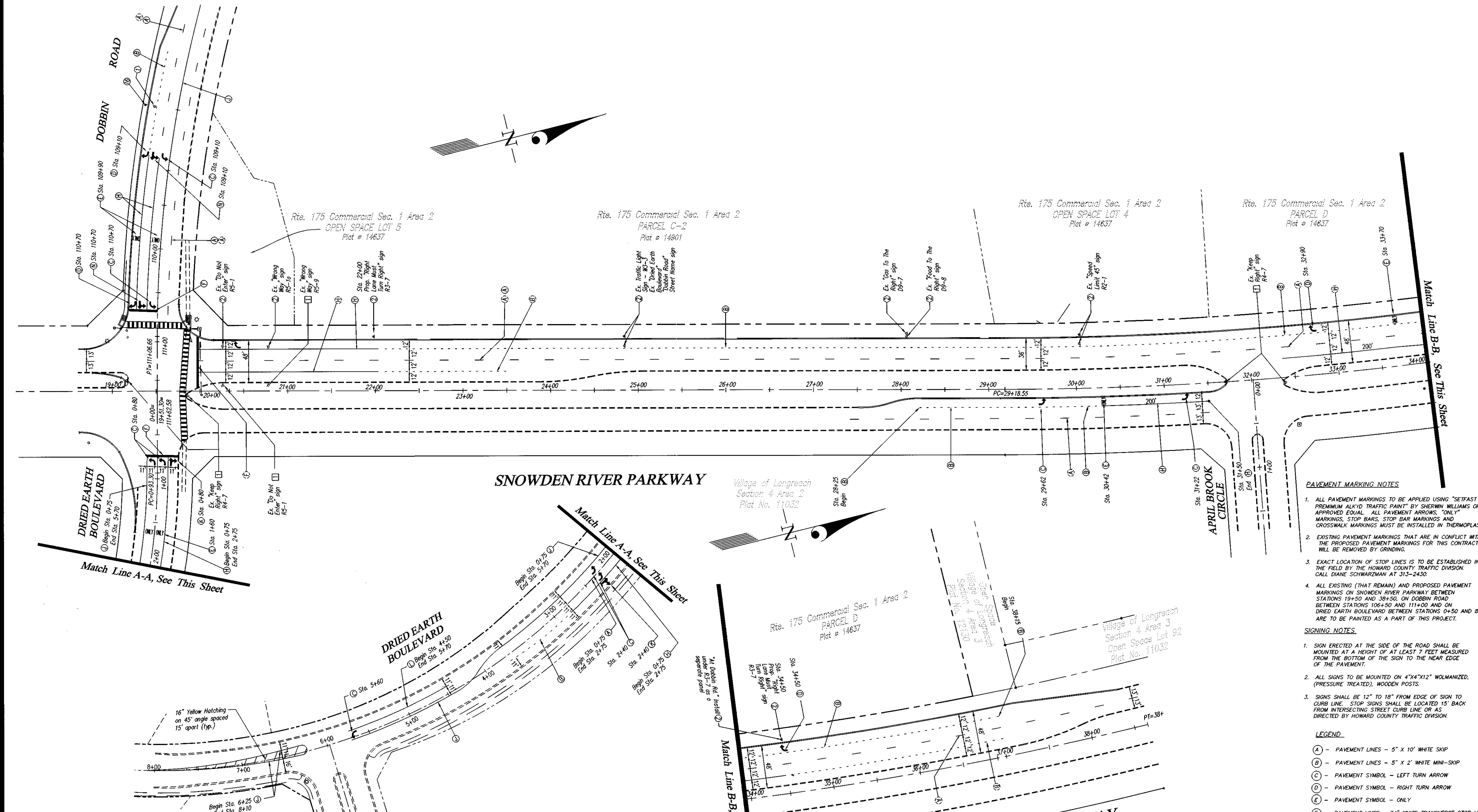
PREPARED FOR: The Howard Research & Development Corporation
 10275 Little Patuxent Parkway
 Columbia, Maryland 21044
 Phone: (410) 992-0027

Storm Drain Profiles & Details
 Snowden River Parkway ~ Station 18+02 to 28+40
 Robbin Road ~ Station 107+05 to 111+15
 Dried Earth Boulevard ~ Station 0+47 to 1+04
 Road Improvements
 Tax Map 27, Parcels 52 & 225, Grid 10
 4th Election District

DES: KLF
 DEV: KLF
 DRN: KLF
 CHK: KLF

SCALE: as shown
 ZONING: New Town
 DATE: September 2001
 TAX MAP No.: 27/18 & 27/13
 G.L.W. FILE No.: 95003
 SHEET: 6 of 10

F-01-10



- PAVEMENT MARKING NOTES**
1. ALL PAVEMENT MARKINGS TO BE APPLIED USING "SEIFAST PREMIUM ALKYD TRAFFIC PAINT" BY SHERWIN WILLIAMS OR APPROVED EQUAL. ALL PAVEMENT ARROWS, ONLY MARKINGS, STOP BARS, STOP BAR MARKINGS AND CROSSWALK MARKINGS MUST BE INSTALLED IN THERMOPLASTIC.
 2. EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS FOR THIS CONTRACT WILL BE REMOVED BY GRINDING.
 3. EXACT LOCATION OF STOP LINES IS TO BE ESTABLISHED IN THE FIELD BY THE HOWARD COUNTY TRAFFIC DIVISION. CALL DIANE SCHWARZMAN AT 313-2430.
 4. ALL EXISTING (THAT REMAIN) AND PROPOSED PAVEMENT MARKINGS ON SNOWDEN RIVER PARKWAY BETWEEN STATIONS 19+50 AND 38+50, ON DOBBIN ROAD BETWEEN STATIONS 106+50 AND 111+00 AND ON DRIED EARTH BOULEVARD BETWEEN STATIONS 0+50 AND 8+25 ARE TO BE PAINTED AS A PART OF THIS PROJECT.
- SIGNING NOTES**
1. SIGN ERRECTED AT THE SIDE OF THE ROAD SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 7 FEET MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.
 2. ALL SIGNS TO BE MOUNTED ON 4"x4"x12" WOLMANIZED, (PRESSURE TREATED), WOODEN POSTS.
 3. SIGNS SHALL BE 12" TO 18" FROM EDGE OF SIGN TO CURB LINE. STOP SIGNS SHALL BE LOCATED 15' BACK FROM INTERSECTING STREET CURB LINE OR AS DIRECTED BY HOWARD COUNTY TRAFFIC DIVISION.

- LEGEND**
- (A) - PAVEMENT LINES - 5" x 10' WHITE SKIP
 - (B) - PAVEMENT LINES - 5" x 2' WHITE MINI-SKIP
 - (C) - PAVEMENT SYMBOL - LEFT TURN ARROW
 - (D) - PAVEMENT SYMBOL - RIGHT TURN ARROW
 - (E) - PAVEMENT SYMBOL - ONLY
 - (F) - PAVEMENT LINES - 24" WHITE TRANSVERSE STOP LINE (SEE PAVEMENT MARKING NOTE #3)
 - (G) - PAVEMENT SYMBOL - THROUGH ARROW
 - (H) - PAVEMENT LINE - 5" x 200' WHITE
 - (J) - PAVEMENT LINE - 5" DOUBLE YELLOW SOLID
 - (K) - PAVEMENT SYMBOL - COMBINATION THRU & RIGHT TURN ARROW
 - (L) - PAVEMENT LINE - 5" x 120' WHITE
 - (M) - PAVEMENT LINES - CROSSWALK
 - (N) - PAVEMENT SYMBOL - COMBINATION THRU & LEFT TURN ARROW
- LEGEND**
- (1) - EXISTING SIGN TO REMAIN
 - (2) - EXISTING SIGN TO BE REMOVED AND SALVAGED
 - (3) - EXISTING SIGN TO BE REMOVED AND RESET AT NEW LOCATION
 - (4) - NEW SIGNS - SEE SHEET 8
 - (5) - EXISTING PAVEMENT MARKING - See right
 - (6) - NEW PAVEMENT MARKING - See right

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard M. Campbell 11-75-01
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Chris Roberts 12/1/01
 Chief, Division of Land Development Date

Chad Williams 11/20/01
 Chief, Development Engineering Division Date

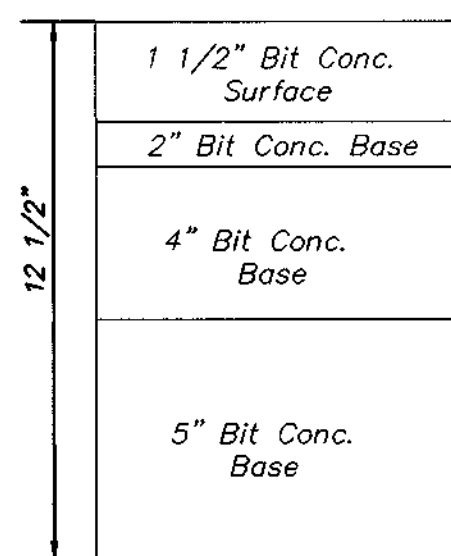
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20886
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.

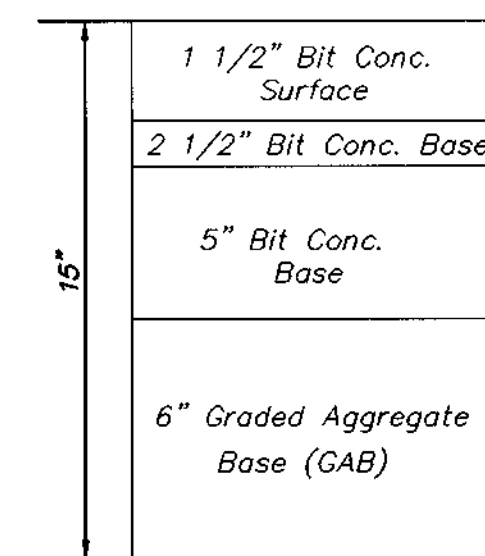
PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MD. 21044

SIGNING & STRIPING PLAN
 SNOWDEN RIVER PARKWAY (Sta. 18+62 to 38+40)
 DOBBIN ROAD (Sta. 107+05 to 111+15)
 DRIED EARTH BOULEVARD (Sta. 0+47 to 1+70)
 TAX MAP 37, PARCELS 30 & 255, GRID 19
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

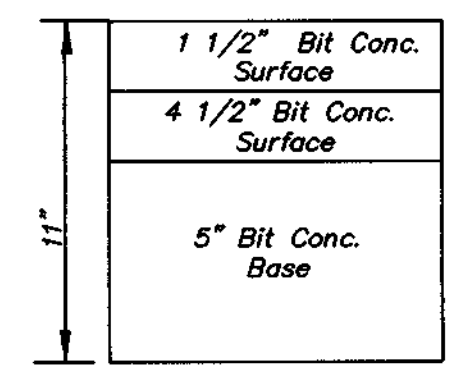
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1"=50'	NEW TOWN	95003
DATE	TAX MAP - GRID	SHEET
Sept., 2001	36-18 37-13	7 OF 10



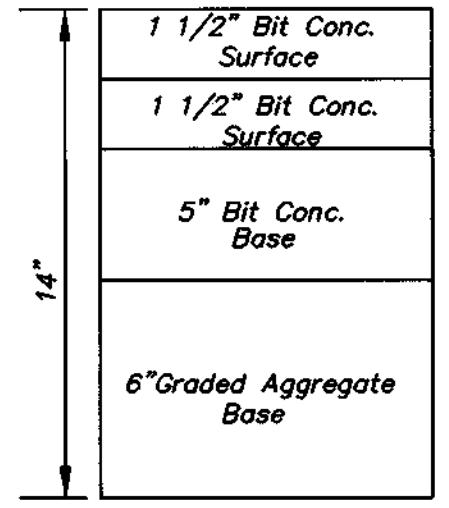
P-6
Full Depth
Bit Conc.



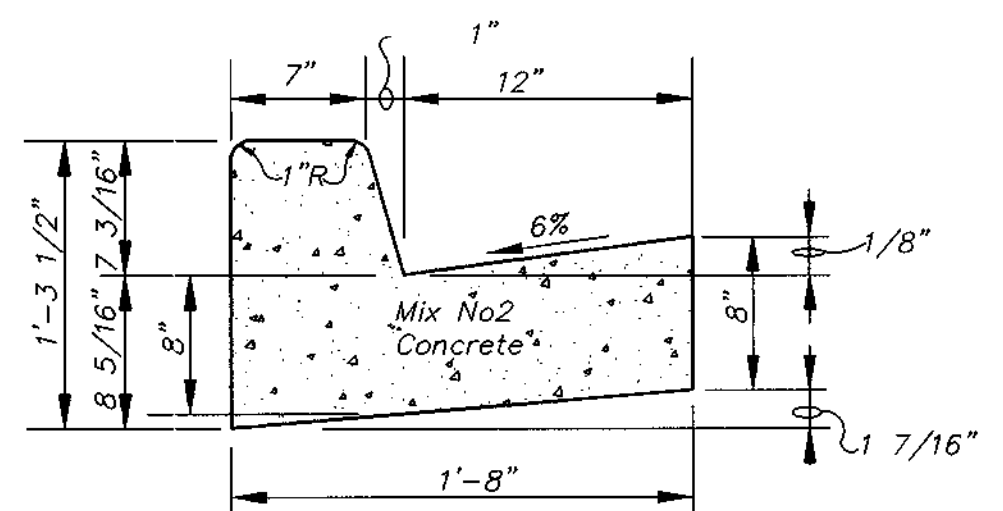
P-6
Granular Base
(Alternate)



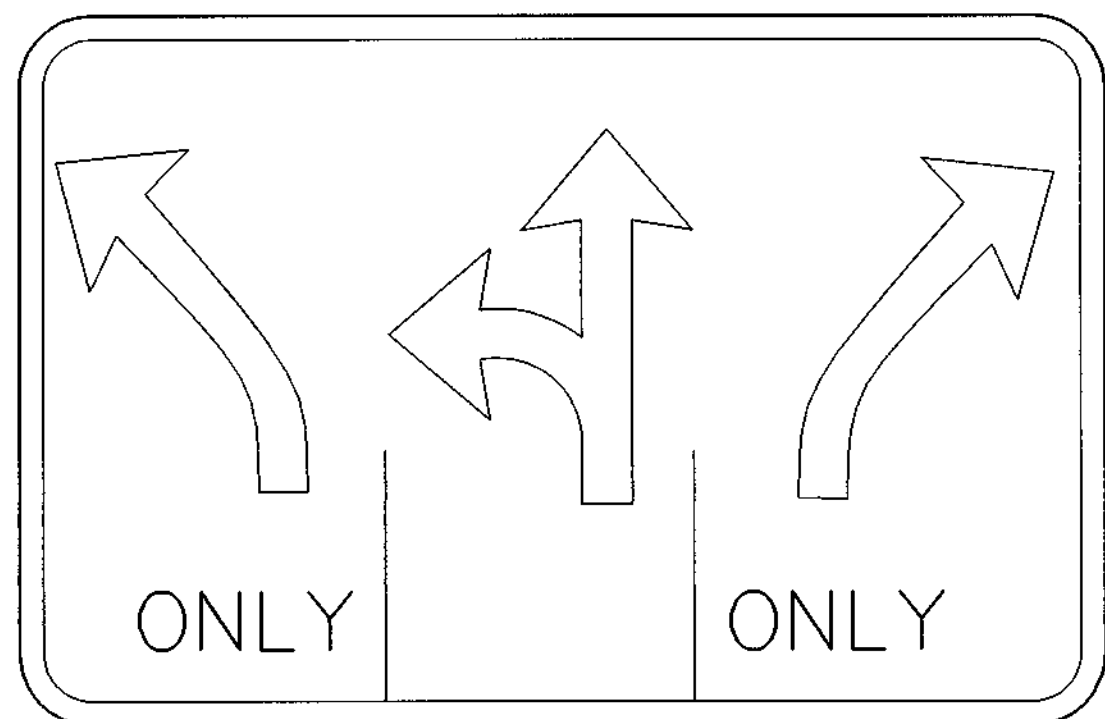
**P-5 Full Depth
Bituminous Concrete**
N.T.S.



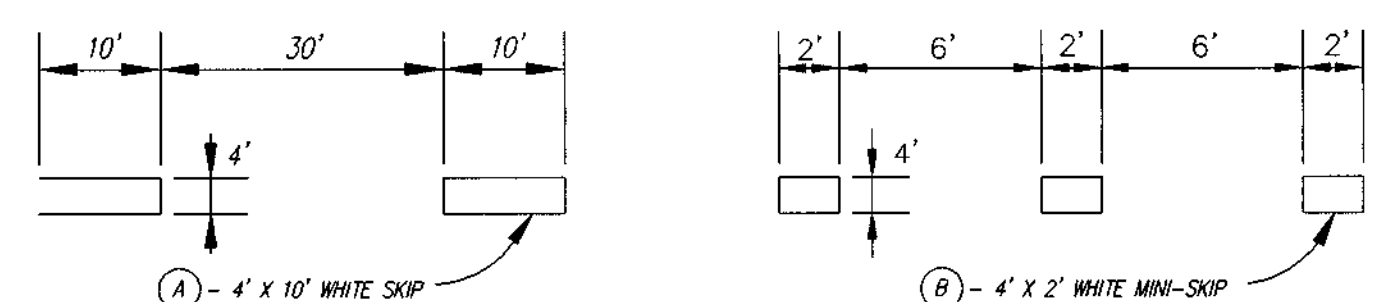
**P-5 Granular
Base (Alternate)**
N.T.S.



Standard 7\"/>



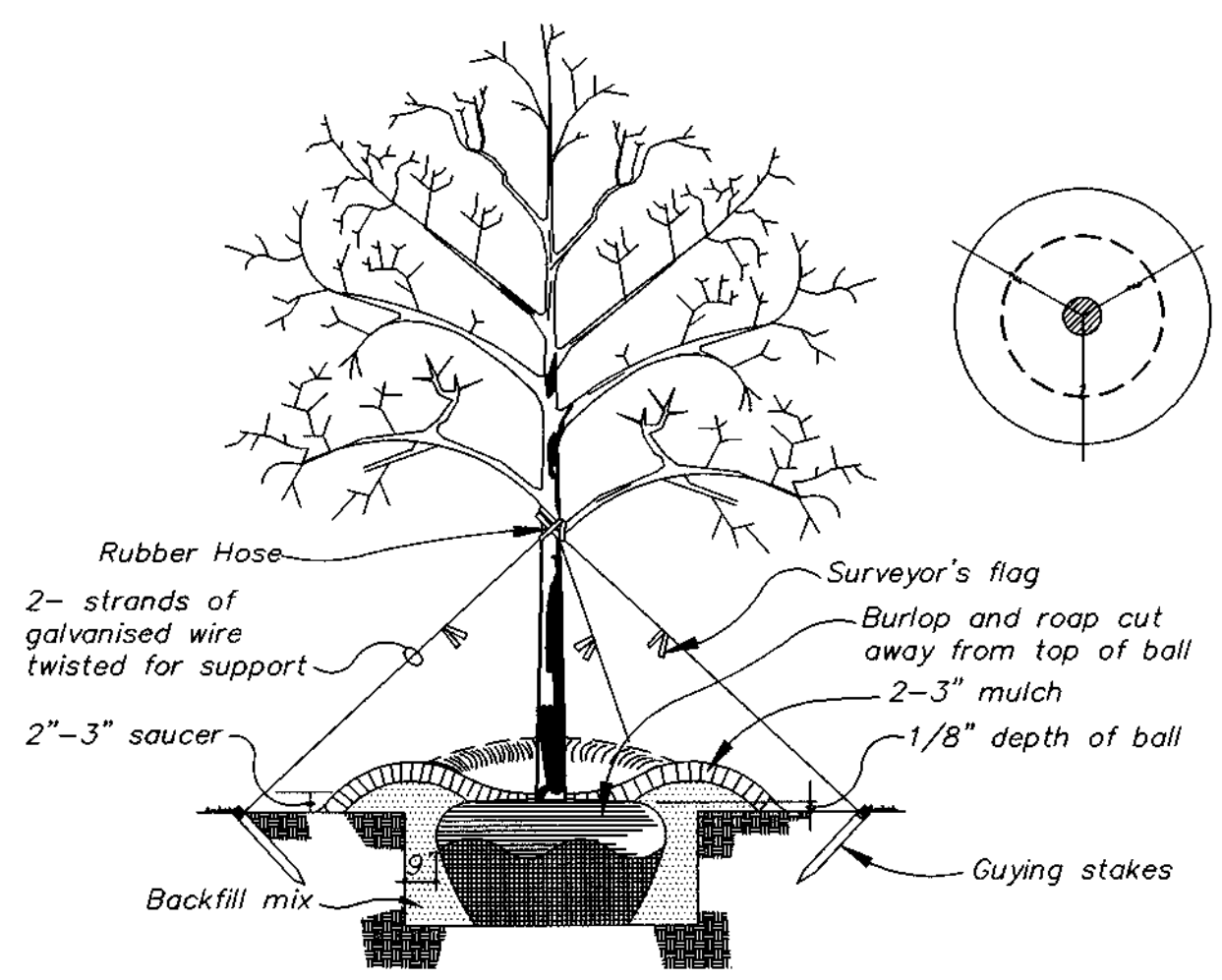
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(FORMAT)
36\"/>**



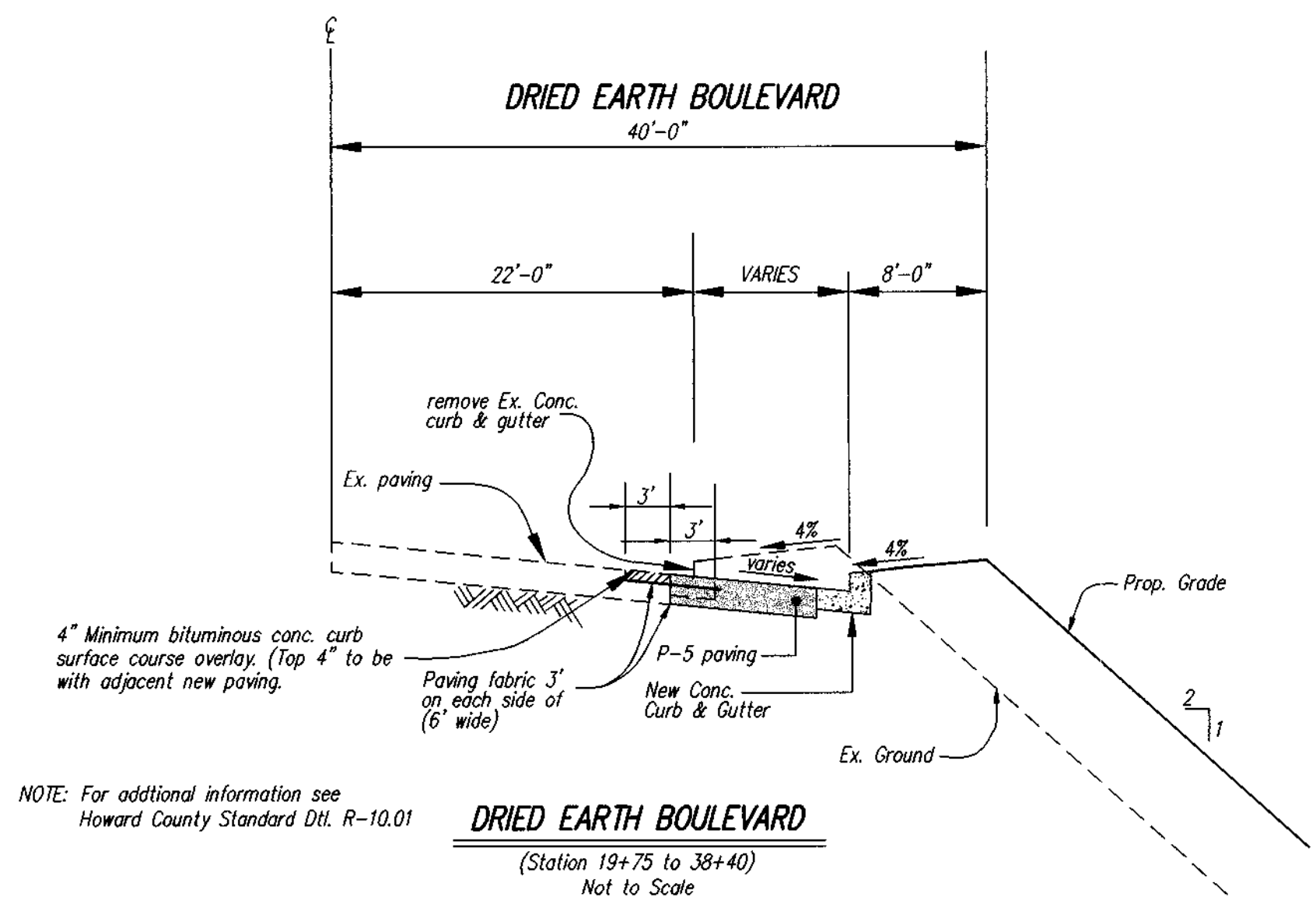
Typical Spacing Longitudinal Pavement Lines
NO SCALE

Note: Other equivalent paving sections may be approved where approved by a professional soils engineer.

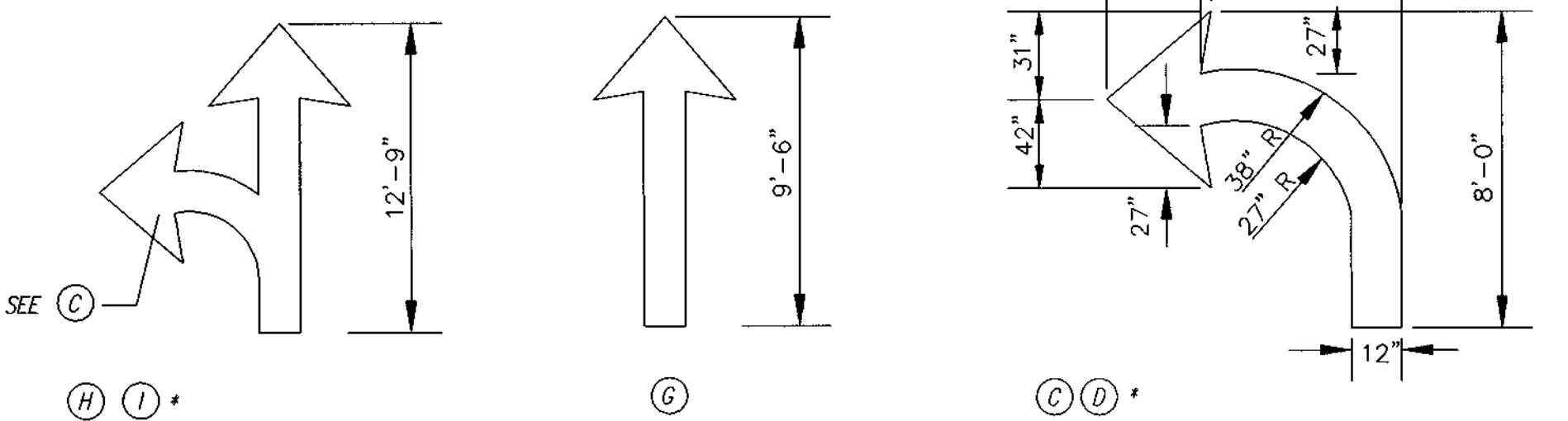
Paving Sections
N.T.S.



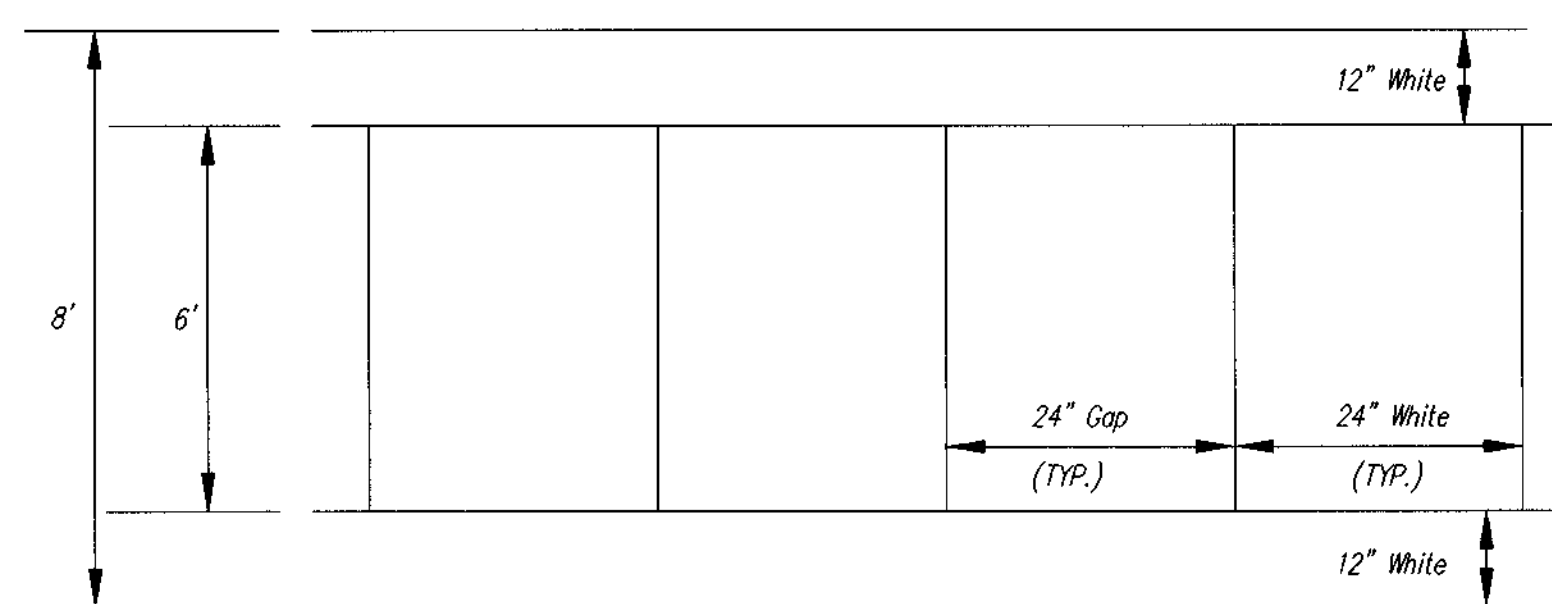
Typical Tree Guying Detail
N.T.S.



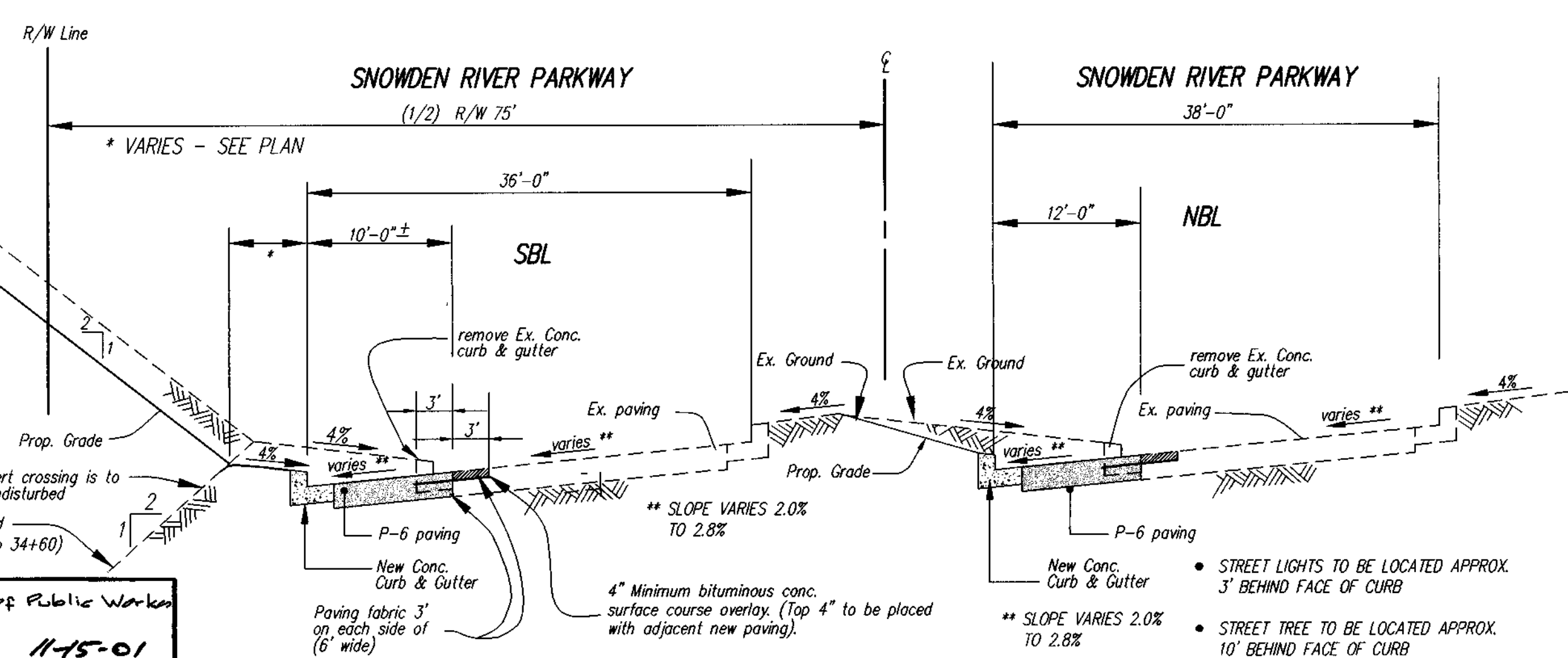
**Pavement Marking Arrows
General Detail**
N.T.S.



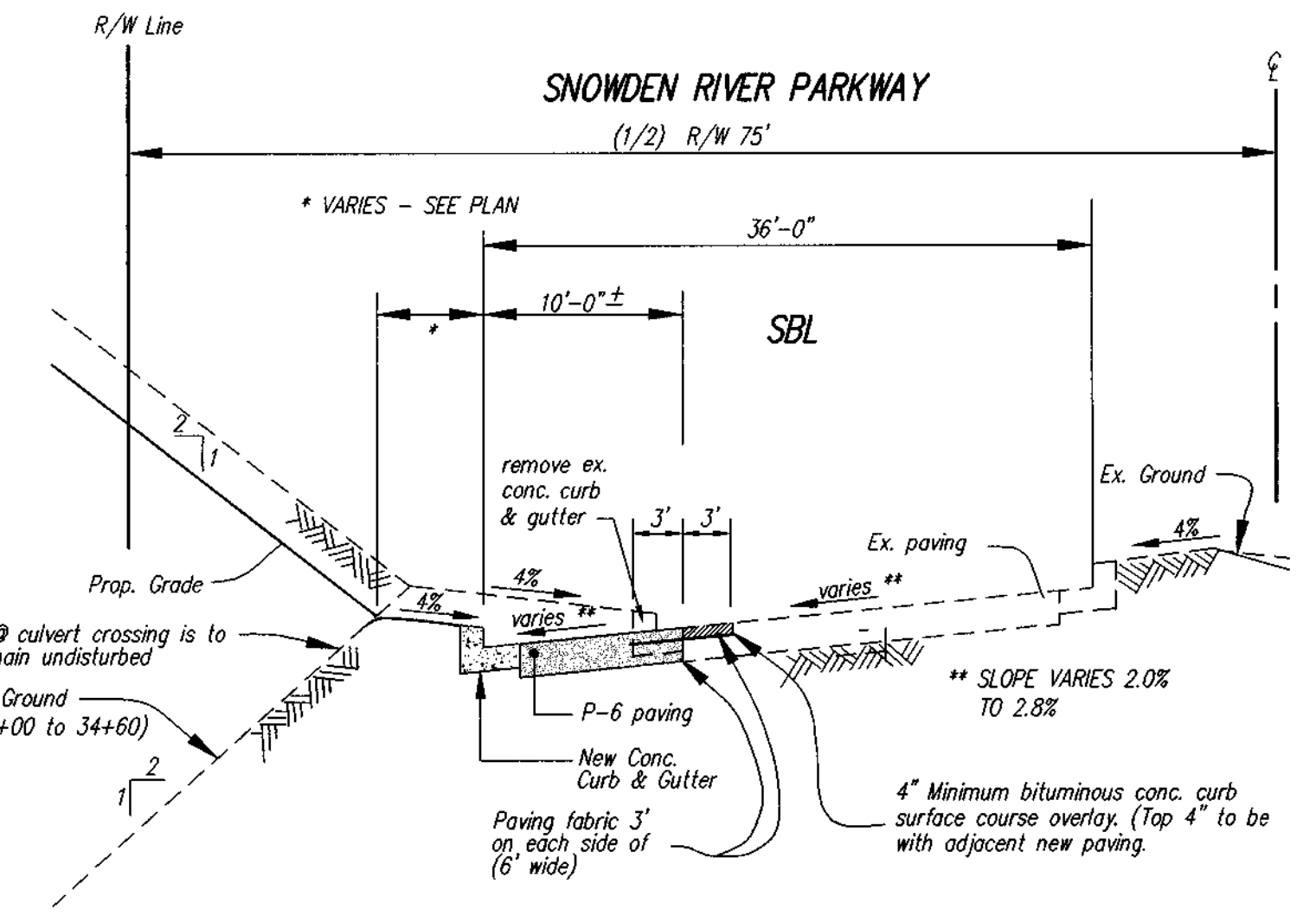
PAVEMENT SYMBOLS



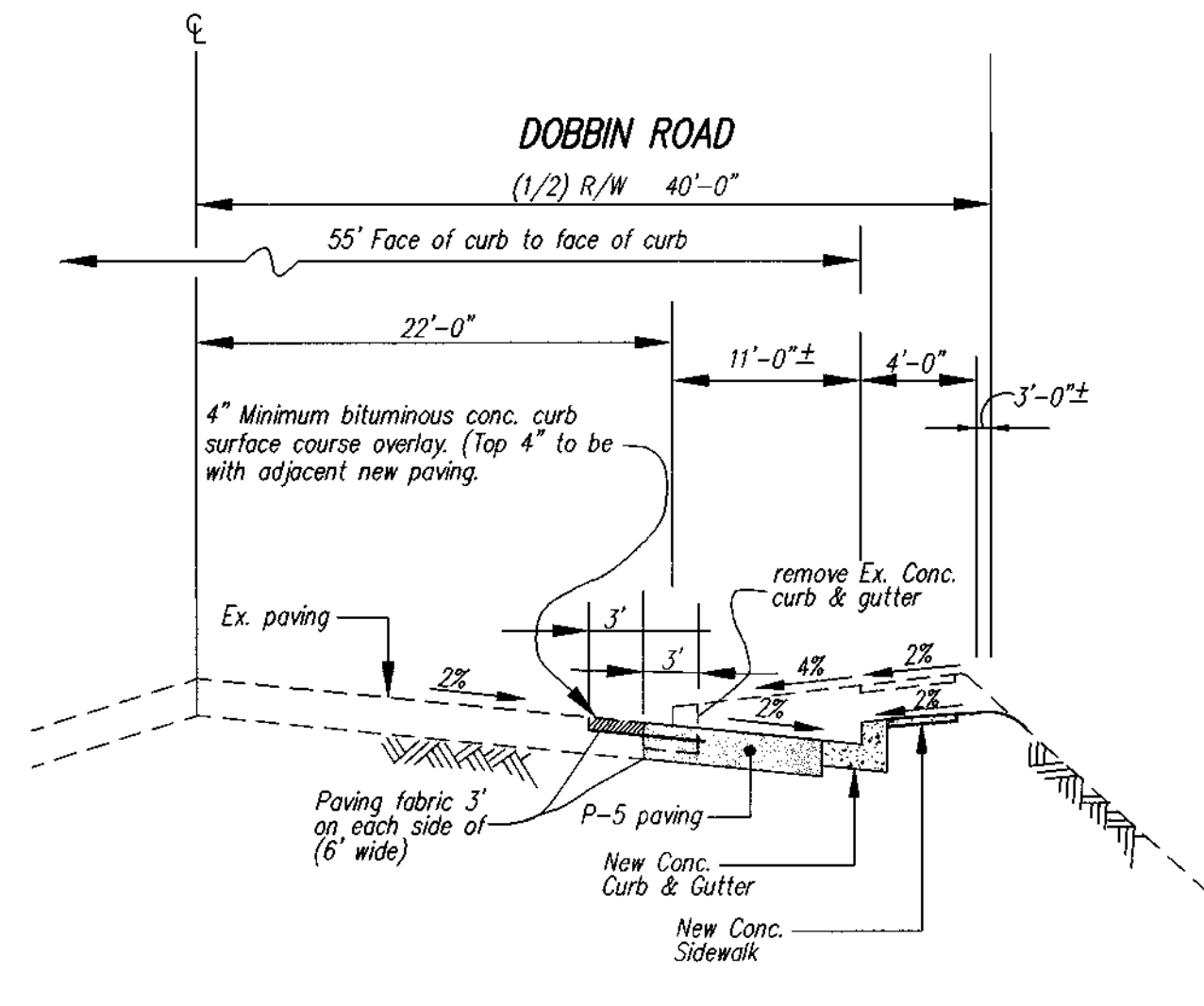
Howard County Pedestrian Crosswalk Marking Detail
Pavement Marking Details
NO SCALE



SNOWDEN RIVER PARKWAY
(Station 28+25.10 to 31+51.24)
Not to Scale

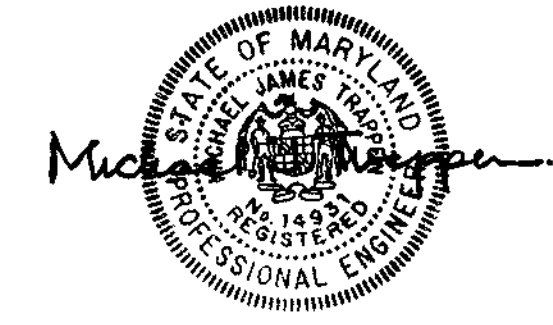


SNOWDEN RIVER PARKWAY
(Station 20+15.61 to 27+50.10)
(Station 31+70.43 to 37+42.02)
Not to Scale



**TYPICAL SECTION
DOBBIN ROAD**
(Station 107+74.27 to 110+67.61)
Not to Scale

APPROVED: Howard County Dept. of Public Works
Richard M. Daniels 11/15/01
Chief, Bureau of Highways
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cindy Horvath 12/4/04
Chief, Division of Land Development
Mark DeWitt 11/20/01
Chief, Development Engineering Division MK



GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BIRKTONVILLE OFFICE PARK
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PREPARED FOR:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE HOUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MD. 21044

DETAIL SHEET
SNOWDEN RIVER PARKWAY (18+62 to 38+40)
DOBBIN ROAD (Sta. 107+05 to 111+15)
DRIED EARTH BOULEVARD (Sta. 0+47 to Sta. 1+70)
TAX MAP 37, PARCELS 50 & 255, GRID 19
HOWARD COUNTY, MARYLAND

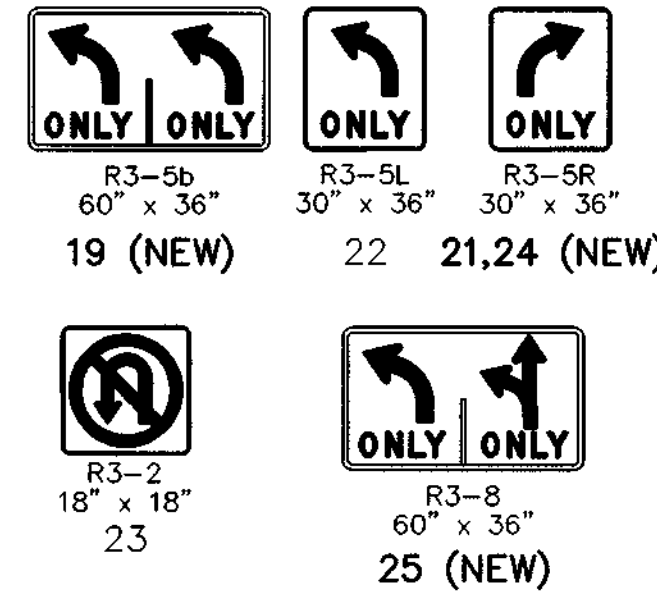
SCALE	ZONING	G. L. W. FILE NO.
AS SHOWN	NEW TOWN	95003
DATE	TAX MAP - GRID	SHEET
September, 2001	36-18 37-13	8 OF 10

ORIGINAL CONSTRUCTION DETAILS (10-18-96)

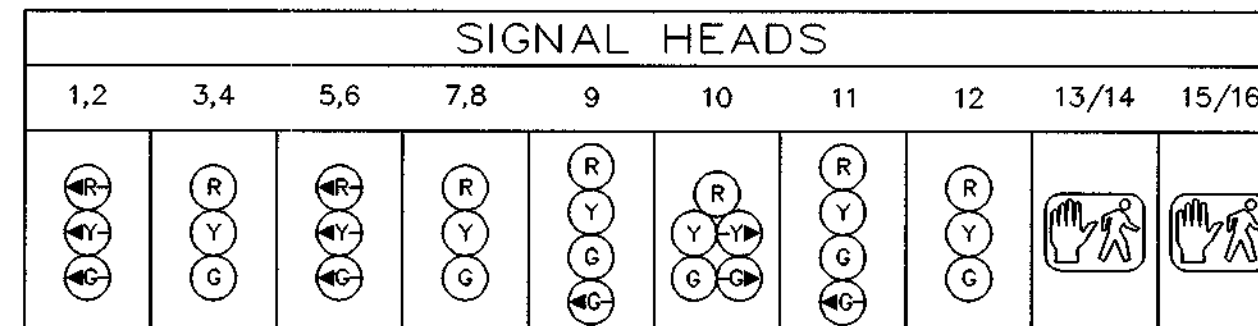
- A. INSTALL 2 1/2" STEEL SIGNAL POLE WITH 48' MAST ARM, 46' MAST ARM, TRAFFIC SIGNAL HEADS, AND SIGN. (NOTE: 1-2" GALVANIZED 90° ELBOW).
- B. INSTALL 2 1/2" STEEL SIGNAL POLE WITH 50' MAST ARM, 42' MAST ARM, TRAFFIC SIGNAL HEADS, AND SIGN. (NOTE: 1-2" GALVANIZED 90° ELBOW).
- C. INSTALL BASE MOUNTED CABINET/CONTROLLER AND ALL NECESSARY EQUIPMENT FOR AN ELECTRICAL SERVICE. (NOTE: 2-4" GALVANIZED 90° ELBOWS AND 1-2" PVC 90° ELBOW).
- D. INSTALL HANDBOX.
- E. INSTALL 1 IN. GALVANIZED STEEL ELECTRICAL CONDUIT FOR LOOP DETECTOR SLEEVE.
- F. INSTALL 2 IN. GALVANIZED STEEL ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL 8" STEEL BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN. (NOTE: 1-2" GALVANIZED 90° ELBOW).
- J. INSTALL 4 IN. GALVANIZED STEEL ELECTRICAL CONDUIT - HAND TRENCHED.
- K. INSTALL 6"x40" QUADRUPOLE TYPE VEHICLE LOOP DETECTOR (2-4-2 TURNS).
- L. INSTALL 2 IN. PVC ELECTRICAL CONDUIT - TRENCHED.
- M. INSTALL 8" STEEL BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNALS, PUSHBUTTONS AND SIGNS. (NOTE: 1-2" GALVANIZED 90° ELBOW).
- N. INSTALL 6"x6" LOOP DETECTOR (3 TURNS).
- R. USE EXISTING 3" GALVANIZED STEEL CONDUIT.
- S. USE EXISTING HANDBOX.

- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE STARTING CONSTRUCTION.
 - ALL PAVEMENT MARKINGS TO BE INSTALLED BY OTHERS.

SIGNS



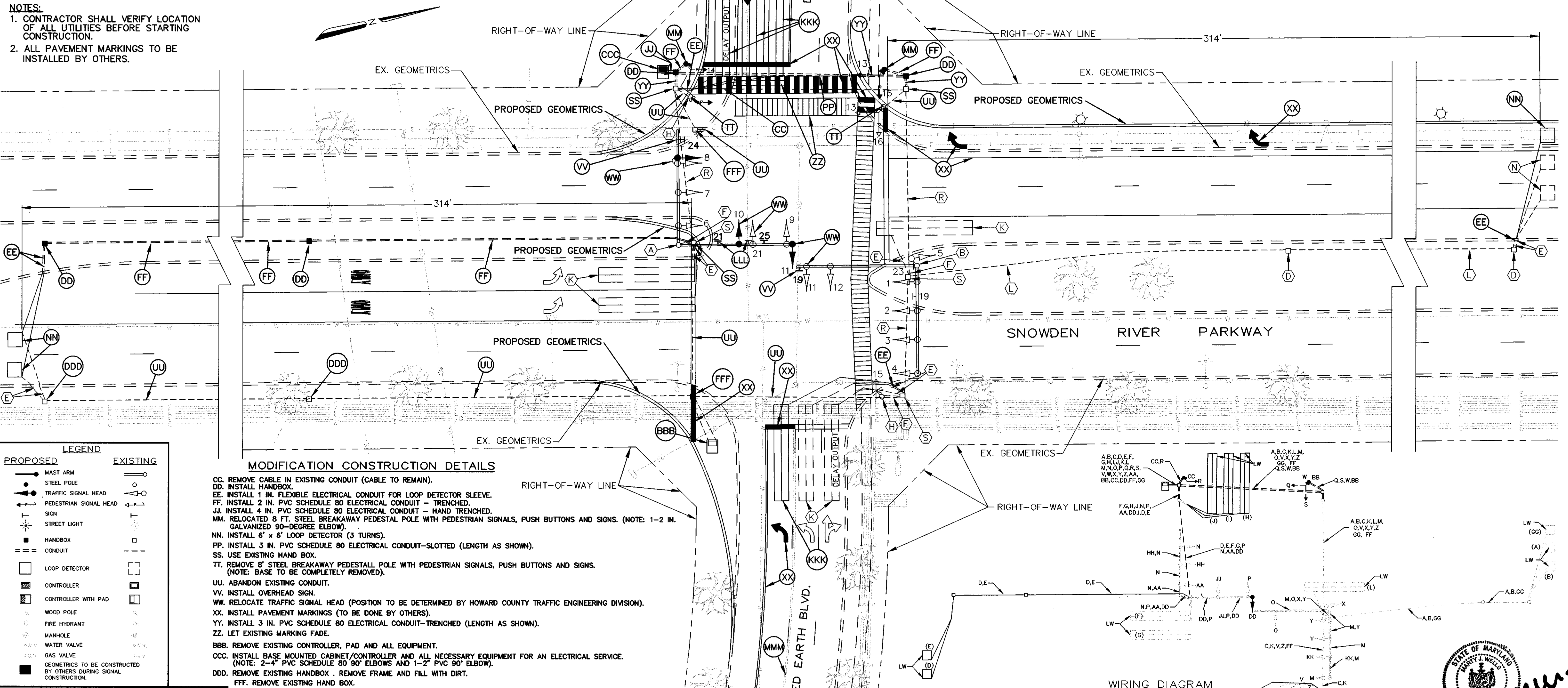
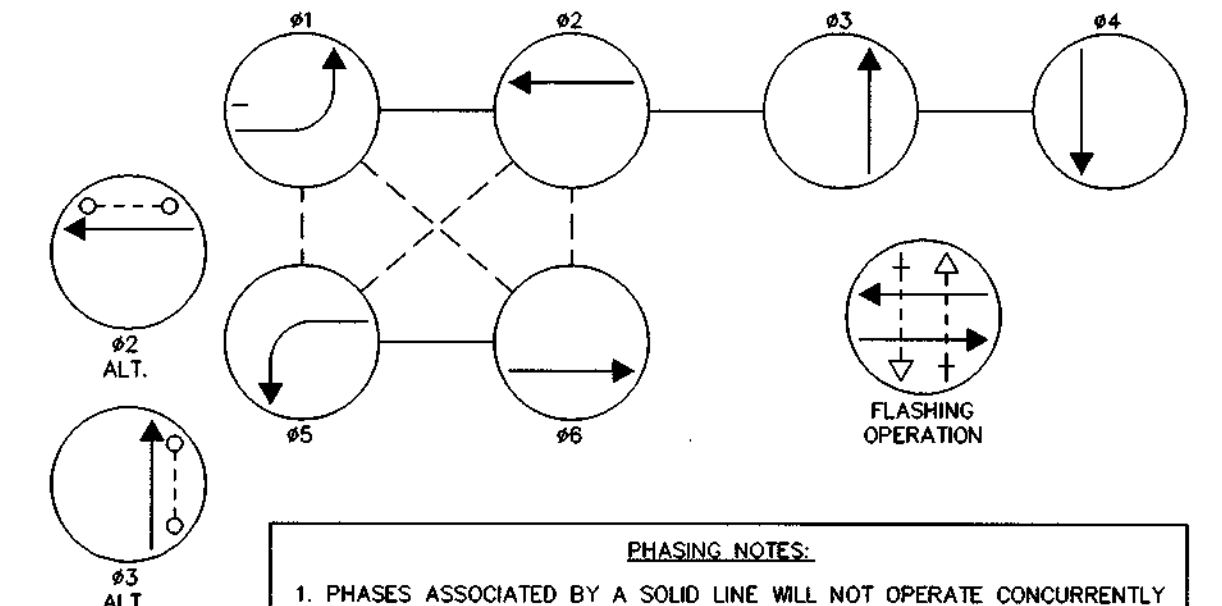
SIGNAL HEADS



WIRING LEGEND

- A - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- B - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- C - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- D - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- E - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- F - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- G - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- H - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- I - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- J - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- K - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- L - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- M - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- N - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- O - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- P - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- Q - 3 CONDUCTOR CABLE (NO. 14 A.W.G.)
- R - 3 CONDUCTOR CABLE (NO. 14 A.W.G.)
- S - 3 CONDUCTOR CABLE (NO. 14 A.W.G.)
- T - 3 CONDUCTOR CABLE (NO. 14 A.W.G.)
- V - 3 CONDUCTOR CABLE (NO. 14 A.W.G.)
- W - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- X - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- Y - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- Z - 2 CONDUCTOR CABLE (NO. 14 A.W.G.)
- AA - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- BB - 2 CONDUCTOR CABLE (NO. 14 A.W.G.)
- CC - 2 CONDUCTOR CABLE (NO. 14 A.W.G.)
- LL - LOOP WIRE (NO. 14 A.W.G.)
- FF - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- GG - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)
- DD - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- HH - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- JJ - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- KK - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)

NEMA PHASING



LEGEND

- | PROPOSED | EXISTING |
|---|------------------------|
| MAST ARM | MAST ARM |
| STEEL POLE | STEEL POLE |
| TRAFFIC SIGNAL HEAD | TRAFFIC SIGNAL HEAD |
| PEDESTRIAN SIGNAL HEAD | PEDESTRIAN SIGNAL HEAD |
| SIGN | SIGN |
| STREET LIGHT | STREET LIGHT |
| HANDBOX | HANDBOX |
| CONDUIT | CONDUIT |
| LOOP DETECTOR | LOOP DETECTOR |
| CONTROLLER | CONTROLLER |
| CONTROLLER WITH PAD | CONTROLLER WITH PAD |
| WOOD POLE | WOOD POLE |
| FIRE HYDRANT | FIRE HYDRANT |
| MANHOLE | MANHOLE |
| WATER VALVE | WATER VALVE |
| GAS VALVE | GAS VALVE |
| GEOMETRICS TO BE CONSTRUCTED BY OTHERS DURING SIGNAL CONSTRUCTION | |

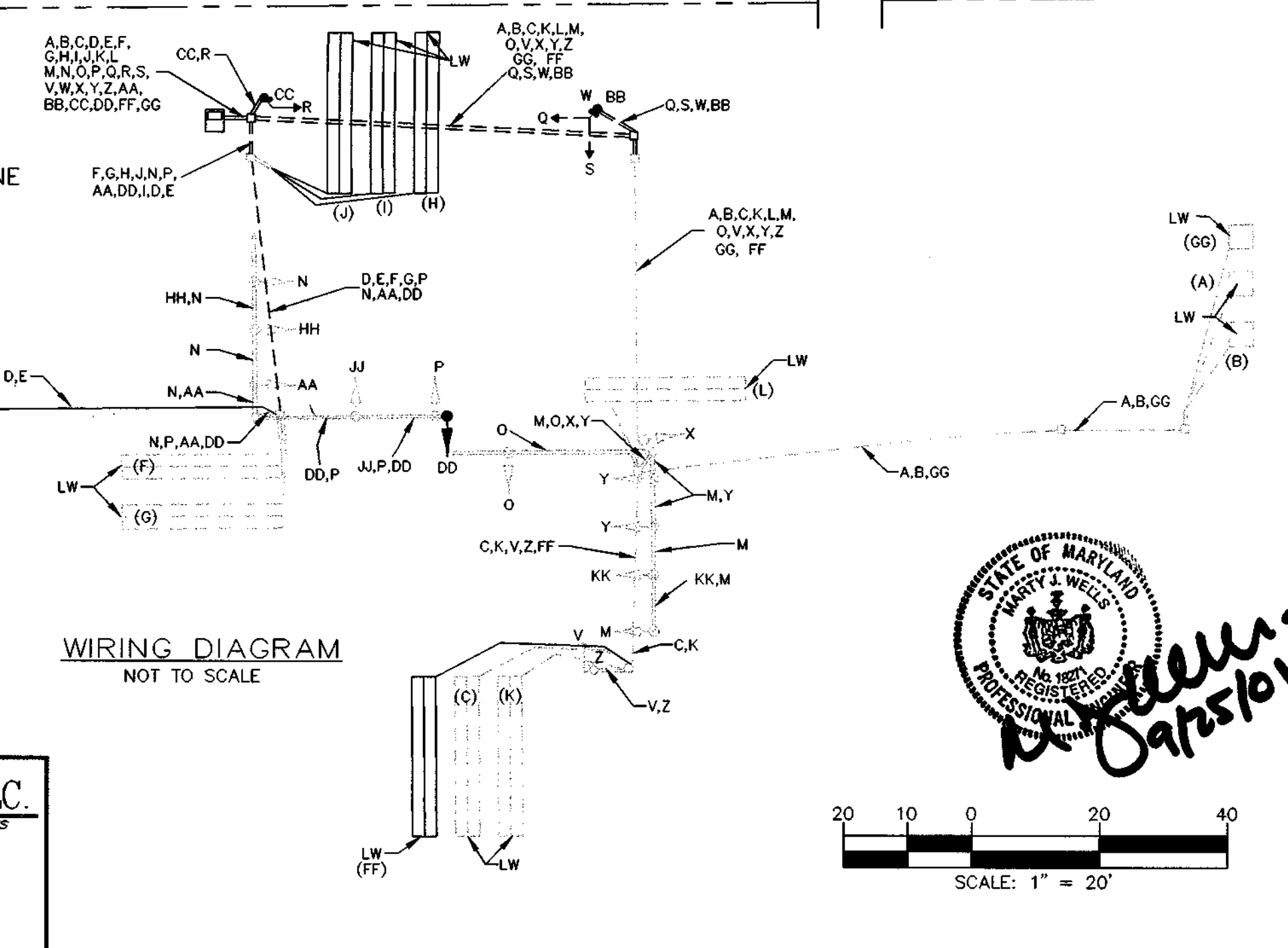
MODIFICATION CONSTRUCTION DETAILS

- CC. REMOVE CABLE IN EXISTING CONDUIT (CABLE TO REMAIN).
- DD. INSTALL HANDBOX.
- EE. INSTALL 1 IN. FLEXIBLE ELECTRICAL CONDUIT FOR LOOP DETECTOR SLEEVE.
- FF. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- JJ. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - HAND TRENCHED.
- MM. RELOCATED 8 FT. STEEL BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNALS, PUSH BUTTONS AND SIGNS. (NOTE: 1-2 IN. GALVANIZED 90-DEGREE ELBOW).
- NN. INSTALL 6" x 6" LOOP DETECTOR (3 TURNS).
- PP. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-SLOTTED (LENGTH AS SHOWN).
- SS. USE EXISTING HANDBOX.
- TT. REMOVE 8" STEEL BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNALS, PUSH BUTTONS AND SIGNS. (NOTE: BASE TO BE COMPLETELY REMOVED).
- UU. ABANDON EXISTING CONDUIT.
- VV. INSTALL OVERHEAD SIGN.
- WW. RELOCATE TRAFFIC SIGNAL HEAD (POSITION TO BE DETERMINED BY HOWARD COUNTY TRAFFIC ENGINEERING DIVISION).
- XX. INSTALL PAVEMENT MARKINGS (TO BE DONE BY OTHERS).
- YY. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED (LENGTH AS SHOWN).
- ZZ. LET EXISTING MARKING FADE.
- BBB. REMOVE EXISTING CONTROLLER, PAD AND ALL EQUIPMENT.
- CCC. INSTALL BASE MOUNTED CABINET/CONTROLLER AND ALL NECESSARY EQUIPMENT FOR AN ELECTRICAL SERVICE. (NOTE: 2-4" PVC SCHEDULE 80 90° ELBOWS AND 1-2" PVC 90° ELBOW).
- DDD. REMOVE EXISTING HANDBOX. REMOVE FRAME AND FILL WITH DIRT.
- FFF. REMOVE EXISTING HAND BOX.
- LLL. INSTALL 6"x40" QUADRUPOLE TYPE VEHICLE DETECTOR (2-4-2 TURNS).
- LLL. RELOCATE OVERHEAD SIGN.
- MMM. ERADICATE EXISTING PAVEMENT MARKINGS. (TO BE DONE BY OTHERS)

UTILITY LEGEND

- GAS MAIN
- WATER MAIN
- SEWER MAIN
- STORM DRAIN
- CABLE TELEVISION
- ELECTRIC CABLES
- TELEPHONE CABLES
- AERIAL CABLES

WIRING DIAGRAM NOT TO SCALE



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Danaher 11-15-01
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Chris Stovner 12/4/01
 Chief, Division of Land Development Date

W.D. ... 11/20/01
 Chief, Development Engineering Division Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
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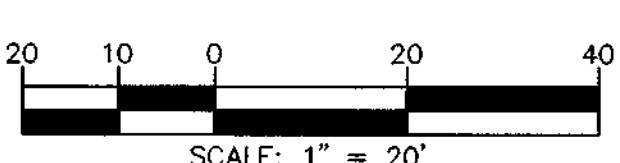
DATE	REVISION	BY	APP'R.

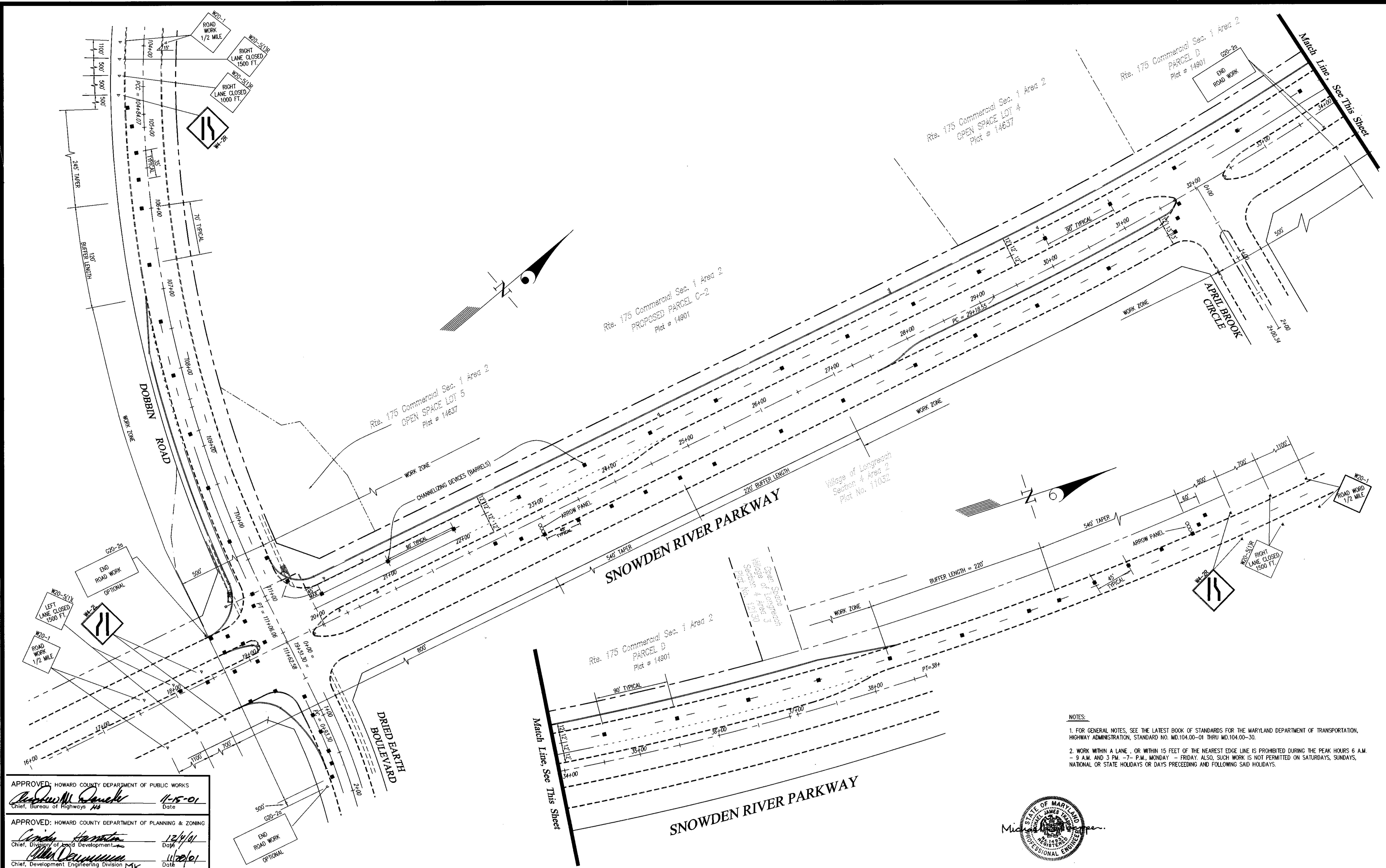
PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATENT PARKWAY
 COLUMBIA, MD. 21044

WELLS & ASSOCIATES, LLC.
 TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS
 1420 Spring Hill Road, Suite 600, McLean, Virginia 22102
 Phone: 703/917-8820 Facsimile: 703/917-0739
 170 Jennifer Road, Suite 280, Annapolis, Maryland 21401
 Phone: 410/266-5723 Facsimile: 410/266-9189
 420 Virginia Avenue, Towson, Maryland 21286
 Phone: 410/825-2527 Facsimile: 410/825-2517

PREPARED BY:
TRAFFIC CONTROL SIGNAL DESIGN
 SNOWDEN RIVER PARKWAY (Sta. 18+62 to Sta. 38+40)
 DOBBIN ROAD (Sta. 107+05 to 111+15)
 DRIED EARTH BOULEVARD (Sta. 0+47 to 1+70)
 TAX MAP 37, PARCELS 50 & 255, GRID 19
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	NEW TOWN	95003
DATE	TAX MAP - GRID	SHEET
Sept., 2001	36-18 37-13	9 OF 10





APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 11-15-01
 Chief, Bureau of Highways

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] 12/4/01
 Chief, Division of Land Development

[Signature] 11/20/01
 Chief, Development Engineering Division

NOTES:
 1. FOR GENERAL NOTES, SEE THE LATEST BOOK OF STANDARDS FOR THE MARYLAND DEPARTMENT OF TRANSPORTATION, HIGHWAY ADMINISTRATION, STANDARD NO. MD.104.00-01 THRU MD.104.00-30.
 2. WORK WITHIN A LANE, OR WITHIN 15 FEET OF THE NEAREST EDGE LINE IS PROHIBITED DURING THE PEAK HOURS 6 A.M. - 9 A.M. AND 3 P.M. - 7 P.M., MONDAY - FRIDAY. ALSO, SUCH WORK IS NOT PERMITTED ON SATURDAYS, SUNDAYS, NATIONAL OR STATE HOLIDAYS OR DAYS PRECEDING AND FOLLOWING SAID HOLIDAYS.



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DATE	REVISION	BY	APP'R.

PREPARED FOR:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MD. 21044

MAINTENANCE OF TRAFFIC PLAN
 SNOWDEN RIVER PARKWAY (Sta. 18+62 to 38+40)
 DOBBIN ROAD (Sta. 107+05 to 111+15)
 DRIED EARTH BOULEVARD (Sta. 0+47 to 1+70)
 TAX MAP 37, PARCELS 50 & 255, GRID 19
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
1"=50'	NEW TOWN	95003
DATE	TAX MAP - GRID	SHEET
Sept., 2001	36-18 37-13	10 OF 10