

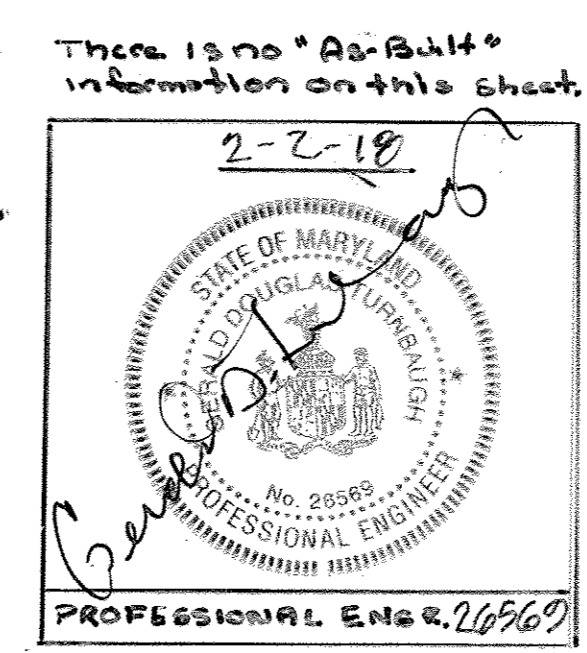
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	DETAILS AND PROFILES
4	DRAINAGE AREA MAP & SEDIMENT CONTROL PLAN
5	2011 SEDIMENT & EROSION CONTROL DETAILS & NOTES
6	2011 SEDIMENT & EROSION CONTROL SPECIFICATIONS
7	SEDIMENT CONTROL DETAILS
8	SITE DETAILS
9	PLANTING
10	MICRO-BIO-RETENTION PLAN
11	MICRO-BIO-RETENTION PLANTING PLAN & DRAINAGE AREA
12	PROPOSED GRADING PLAN AND ADA RAMP AND ROUTE

# SITE DEVELOPMENT PLAN

## ACURA

### 2ND ELECTION DISTRICT

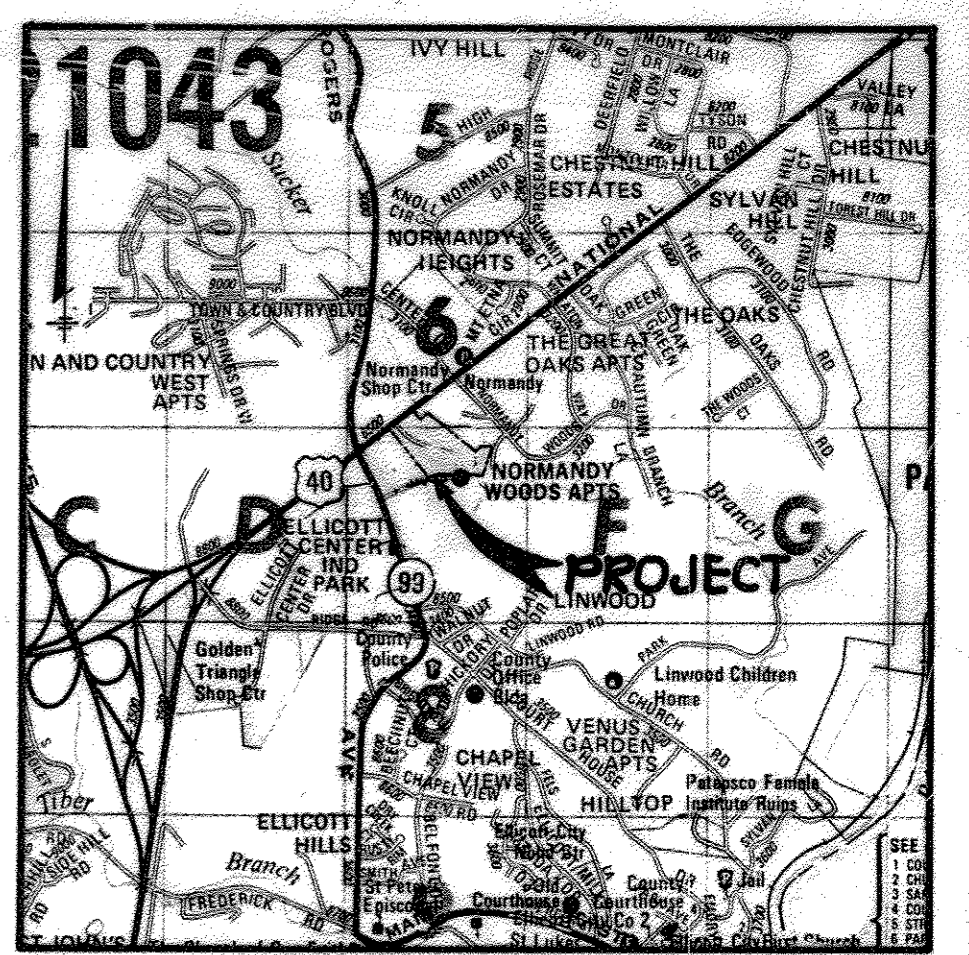
### HOWARD COUNTY, MARYLAND



There is no "AS-BUILT" information on this sheet.

HERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MATTHEW C. ZANE  
PROFESSIONAL LAND SURVEYOR  
UC# 21734 (EXP. 12-12-19)  
DATE: 01-05-18



I 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. 26860, Exp. Date 7-18-19.

I 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. 8061, Expiration Date: 8-26-17.

15. THIS REDLINE REVISION, REVISION NO. 9, HAS BEEN REVIEWED BY, AND HAS RECEIVED SITE DESIGN INPUT FROM THE HOWARD COUNTY DESIGN ADVISORY PANEL (DAP), ON JANUARY 13, 2016. THE PANEL APPROVED THE SUBMISSION AS SUPPLIED BY THE APPLICANT.

- GENERAL NOTES**
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
  - CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
  - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
  - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTIONS A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
  - CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 

MISS UTILITY	559-0100
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3533
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
  - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
  - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
  - PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
  - NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
  - TOPO TAKEN FROM FIELD RUN SURVEY DATED NOVEMBER, 1985 BY THE RIEMER GROUP INC.
  - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  - ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2-01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
  - THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.

**SITE TABULATION**

TOTAL AREA OF SITE:	6.289 ACRES (272,944.40 SQ. FT.)
PRESENT ZONING:	B-2
USE OF STRUCTURES:	BUILDING A - AUTOMOBILE DEALERSHIP (SALES, REPAIR, SERVICE BUILDINGS) B+C - STORAGE OF NON-FLAMMABLE MATERIALS ONLY
TOTAL BUILDING COVERAGE:	8.695% - 0.541 ACRES
PAVED PARKING LOT/AREA ON SITE:	2.680 AC. (116,726.65 SQ. FT.)
TOTAL BUILDING FLOOR AREA:	18,008 SF (FIRST FLOOR)
AREA OF LANDSCAPE ISLAND:	970 SQ. FT. (2.2%)
LIMIT OF DISTURBED AREA:	.517 AC. (22,528.52 SQ. FT.)
	4,367 SF.

\* BASED ON DESIGN BY THE ENGINEER OF RECORD AS APPROVED AND SHOWN PRIOR TO REVISIONS.

**PURPOSE STATEMENT: REDLINE REVISION #3**

THE PURPOSE OF THIS REDLINE REVISION IS TO BRING THE EXISTING BUILDING TO CURRENT ACURA SHOWCASE STANDARDS. THE NEW STANDARDS MANDATE NEW CUSTOMER SERVICE REQUIREMENTS. THE FOLLOWING IMPROVEMENTS PERTAIN TO SERVICE CUSTOMER INTAKE PROCEDURES AND PROTOCOLS. THE BUILDING UPGRADE WILL INCLUDE THE ADDITION OF A NEW ENCLOSED SERVICE PARKING AREA AND ASSOCIATED SPACE AND CAR WASH AREA. EXISTING DEALERSHIP CANOPIES WILL BE ENCLOSED FOR THESE IMPROVED IMPROVEMENTS.

**PURPOSE STATEMENT: REDLINE REVISION #2**

THE PURPOSE OF THIS REDLINE REVISION IS TO ADDRESS THE CURRENT BUILDING FOOTPRINT FIELD CHANGE AND MODIFY THE APPROVED LANDSCAPE PLAN, BASED ON CURRENT HOWARD COUNTY LANDSCAPE REGULATIONS. THE BUILDING UPGRADES MATCH THE PREVIOUS APPROVED PLAN, WITHOUT THE ADDITION OF TWO OFFICE EXPANSION AREAS.

**PARKING TABULATION**

BUILDING A: SALES, 21,600 S.F.	
SALES / SHOWROOM / PARTS / OFFICE: 1400 S.F.	
@ 2 SPACES PER 1000 SF	0 SPACES
SERVICE BAY (4): 10 AUTOMOBILE SERVICE BAYS	
@ 3 SPACES PER SERVICE BAY	48 SPACES
OUTDOOR AUTOMOBILE DISPLAY AREA	
@ 1 SPACE PER 1000 SF	0 SPACES
SPACES REQUIRED FOR SDP 86-182	60 SPACES
SPACES REQUIRED FOR SDP 84-055*	16 SPACES
SDP 84-055	76 SPACES
TOTAL SPACES PROVIDED	76 SPACES

GERALD + BETTY MANZLISH  
40 ACURA WEST  
L. 3071, F. B3  
PARCEL 202  
NISSAN DEALERSHIP  
SDP-94-55

EX. PRIVATE USE IN-COMMON ACCESS EASEMENT FOR PARCEL 199 & PARCEL 302 L. 3162, F. 507

PARCEL 'B-1'

PROP SHARED PARKING EASEMENT TO BE ADDED TO EX. USE IN-COMMON ACCESS EASEMENT

**PARKING TABULATIONS**

Existing Sales Area on Site = 3,874 s.f.  
Proposed Sales Trailer Area = 700 s.f.

USE	FIELD	EXISTING	PROPOSED	TOTAL
SALES	Required	0	0	0
SALES	Provided	0	0	0
SERVICE BAYS	Required	42	0	42
SERVICE BAYS	Provided	42	0	42
DISPLAY	Required	0	0	0
DISPLAY	Provided	0	0	0
		16 SPACES FOR ADJACENT NISSAN (SDP-94-55)		16
Total Required		74 Spaces		
Total Provided		76 Spaces		
* Existing Sales Building = 4,054 SF				

NOTE: THE AUTOMOBILE STORAGE PARKING REQUIREMENT HAS BEEN SATISFIED DUE TO AN OFF-SITE AUTOMOBILE STORAGE PARKING LOT LOCATED IN BALTIMORE COUNTY AT 6421 BALTIMORE NATIONAL PIKE, GREENVILLE, MD 21226. TAX MAP # 44 PARCEL 124.

NOTE: SEVEN (7) EXTERIOR PARKING SPACES HAVE BEEN REMOVED AND TEN (10) PARKING SPACES HAVE BEEN ADDED WITHIN THE NEW SERVICE STAGING EXPANSION AREA. LANDSCAPING FOR THE REQUIRED NUMBER OF TREES/SHRUBS HAS BEEN PROVIDED IN ACCORDANCE WITH SECTION 12.4 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL, SUBJECT TO THE SIGNATURE OF SECTION 12.4.02 SHALL BE PAID WITH DRAW DEVELOPER'S AGREEMENT.

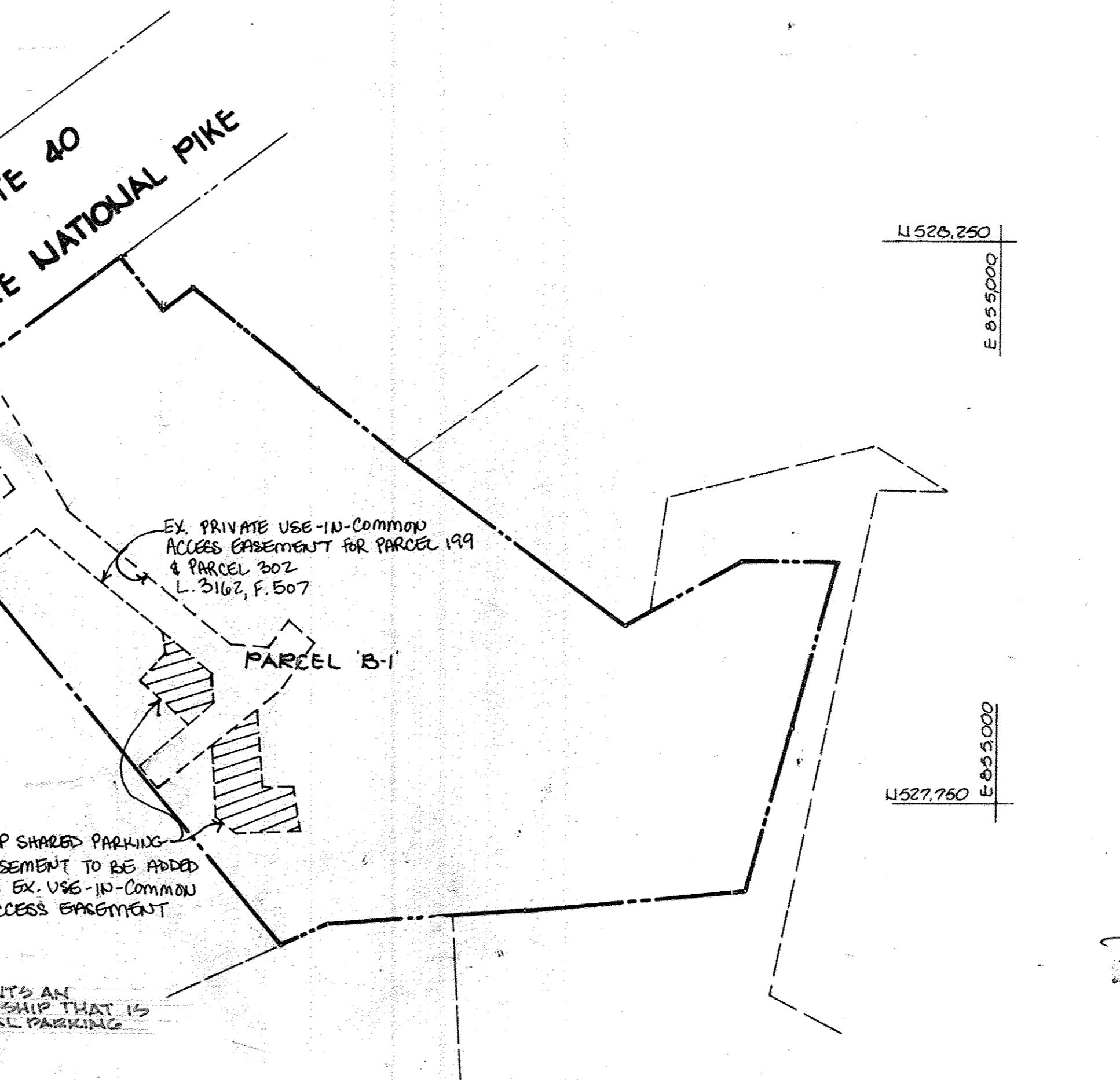
**NOTE:** BASED UPON APPROVED SDP 86-182 DATED 12-15-15, THE MAX. BUILDING COVERAGE AREA OF 8.7% IS ALLOWED.

**NOTE:** 16 EXISTING STORAGE SPACES ASSIGNED TO NISSAN WEST (SDP-94-55) PROPOSED SERVICE BAY EXPANSION.

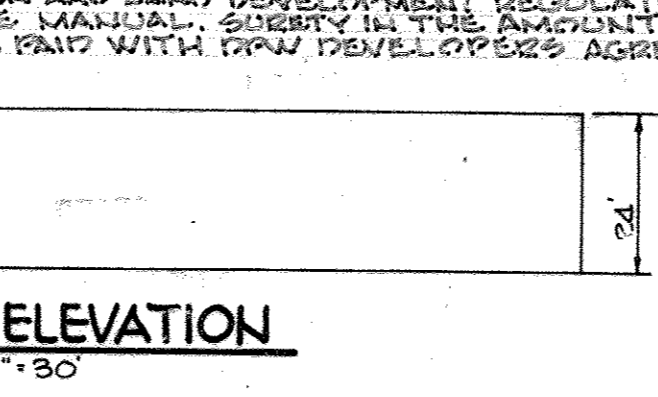
**SITE TABULATION**

TOTAL AREA OF SITE	6.2889 AC. (272,944.40 SF)
EXISTING ZONING	B-2
PROPOSED USE	BUILDING 'A' Automobile Dealership - sales, repair and servicing
	BUILDING 'B'+C' Storage of nonflammable material only.
BUILDING COVERAGE PERMITTED (50%)	3.1445 AC. (136,972 SF)
BUILDING COVERAGE PROPOSED (7.3%)	0.47 AC. (20,402 SF)
TOTAL BUILDING AREA (3,874 S.F. SALES AREA; 14,234 S.F. SERVICE BAYS)	18,008 SF First floor 7,016 SF Mezzanine 3,040 SF Existing Storage Buildings 28,064 SF
PARKING REQUIRED	36 spaces
@ 1 space per 500 SF of Sales, Repair and Storage (17,828 SF)	
@ 7 spaces per 10 employees of Office Area (15 employees)	11 spaces
	47 spaces total
* PARKING PROPOSED	48 spaces
Includes two handicapped spaces	
OPEN SPACE REQUIRED (20%)	1.26 AC.
OPEN SPACE PROPOSED (59%)	3.69 AC.
LANDSCAPED ISLANDS REQUIRED (5%)	828 SF
LANDSCAPED ISLANDS PROPOSED (5.9%)	970 SF
TOTAL AREA OF PUBLIC PARKING LOTS	0.36 AC. (16,440 SF)

\* Note: Additional parking provided (155 spaces) is for storage of automobiles. Handicapped parking is computed only as part of public parking provided.



**PLAN**  
SCALE: 1" = 100'



DATE	NO.	REVISION
1-01-2017	1	ACURA WEST LANDSCAPING & PLANTING FOOTPRINT & REVISE SHEET INDEX
7-25-15	2	ACURA WEST SERVICE AREA EXPANSION
4-4-08	7	REVISE PARKING TABULATION
8-16-04	8	ASSIGN 16 EXISTING STORAGE SPACES TO NISSAN WEST PROP. SERVICE BAY EXPANSION

**ADDRESS CHART**

PARCEL	STREET ADDRESS
B-1	8559 US. ROUTE 40

SUBDIVISION NAME	PROPERTY	SECT. / AREA	LOT/PARCEL #
ACURA LANCELOTTA	PROPERTY		PARCEL B-1
ACURA LANCELOTTA	PROPERTY		PARCEL B-1
FLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP
GG56	1	B-2	17,18,24,25
WATER CODE	F01	SEWER CODE	452600

FOR REVISION NO. 9 ONLY

2-14-17  
DATE

PROFESSIONAL ENGR. 8061

FOR REVISION ONLY

1-18-16  
DATE

PROFESSIONAL ENGR. 26860

FOR REVISION

11/1/04

PROFESSIONAL ENGR. 16195

FOR REVISION

12/17/03

PROFESSIONAL ENGR. 16195

FOR REVISION

12/21/01

PROFESSIONAL ENGR. 16195

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

DATE: 8-20-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

DATE: 8-21-86

DATE: 8-21-86

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 8-21-86

APPROVED: CHIEF, BUREAU OF ENGINEERING

DATE: 8-18-86

2-2-01 4. REVISE BUILDING COVERAGE FOR VESTIBULE

3-17-03 8. ADD SALES TRAILER

OWNER/DEVELOPER

NORRIS AUTO GROUP  
905 MERRITT COLLEAVARD  
BALTIMORE, MARYLAND 21222  
CONTACT: DAVID NORRIS COOK

PROJECT: ACURA NORRIS AUTO GROUP  
AUTOMOBILE DEALERSHIP

AREA: LANCELOTTA PROPERTY PLAT NO. GG56  
PARCEL B-1, TAX MAPS 17,18,24,25  
2ND ELECTION DISTRICT, HOWARD COUNTY, MD

TITLE: TITLE SHEET  
REVISED SITE DEVELOPMENT PLAN

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

DATE: 7-25-86

AS-BUILT

DESIGNED BY: OAM

DRAWN BY: FDM

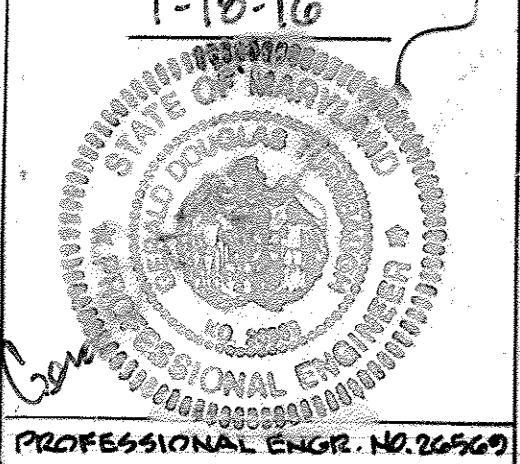
PROJECT NO: 23900

DATE: 2-28-86

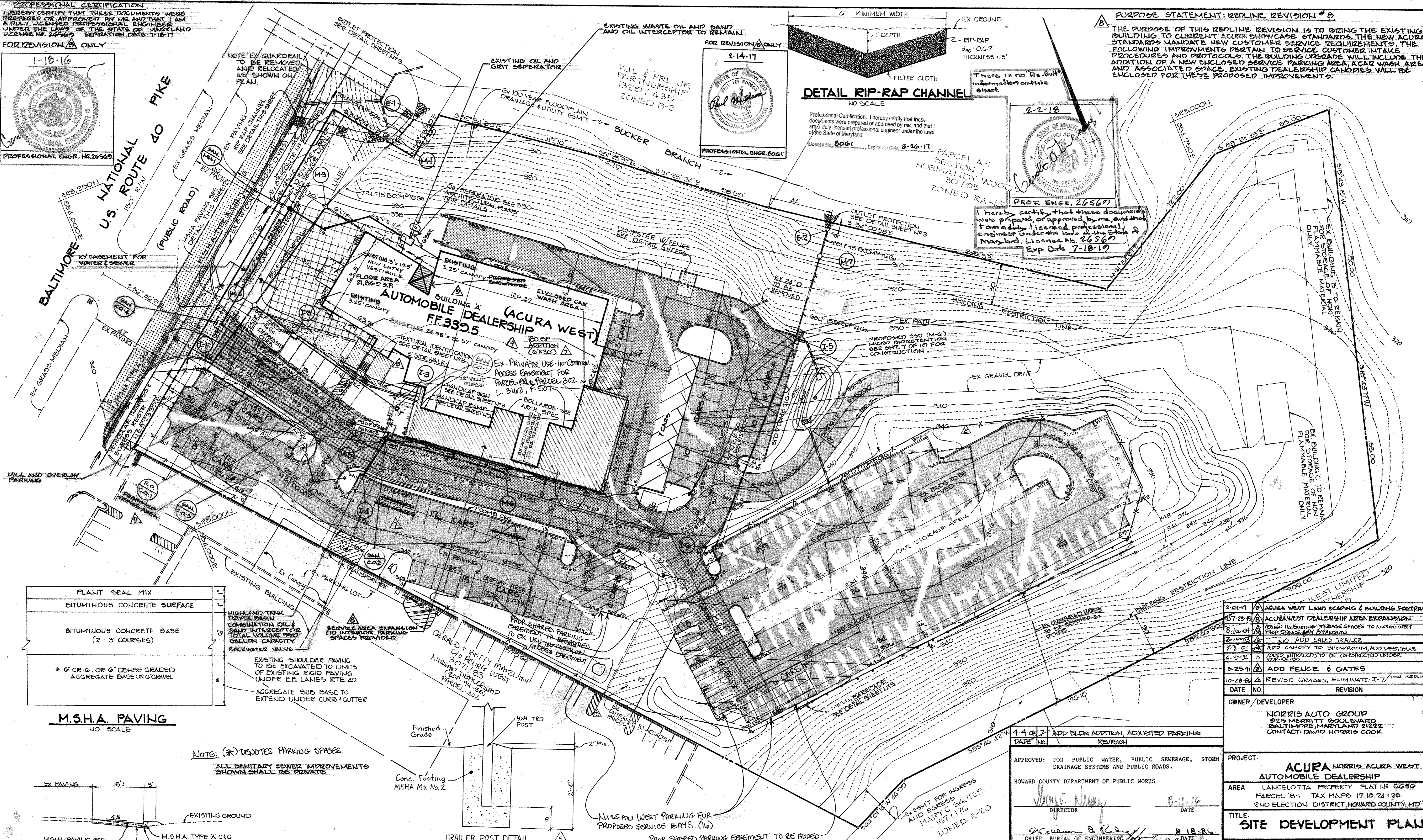
SCALE: AS SHOWN

DRAWING NO. 1 OF 12

**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 26560 EXPIRATION DATE 7-18-17  
**FOR REVISION #1 ONLY**

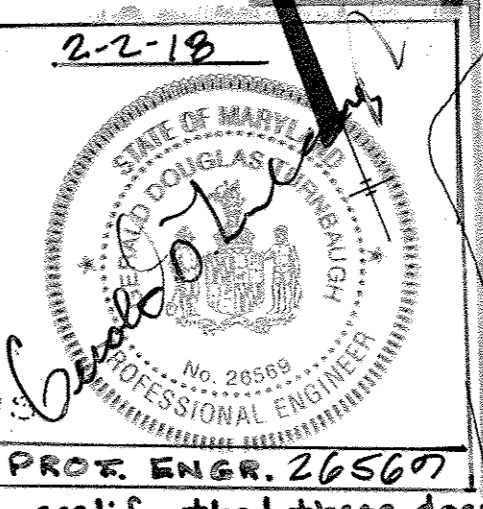


**PURPOSE STATEMENT: REDLINE REVISION #3**  
 THE PURPOSE OF THIS REDLINE REVISION IS TO BRING THE EXISTING BUILDING TO CURRENT ACURA SHOWCASE STANDARDS. THE NEW ACURA STANDARDS MANDATE NEW CUSTOMER SERVICE REQUIREMENTS. THE FOLLOWING IMPROVEMENTS PERTAIN TO SERVICE CUSTOMER INTAKE PROCEDURES AND PROTOCOLS. THE BUILDING UPGRADE WILL INCLUDE THE ADDITION OF A NEW ENCLOSED SERVICE PARKING AREA, A CAR WASH AREA AND ASSOCIATED SPACE. EXISTING DEALER BAY CANOPIES WILL BE ENCLOSED FOR THESE PROPOSED IMPROVEMENTS.



**DETAIL RIP-RAP CHANNEL**  
 NO SCALE

Professional Certification. I hereby certify that these documents were prepared or approved by me and that I am a fully licensed professional engineer under the laws of the State of Maryland.  
 License No. 8061, Expiration Date: 8-26-17

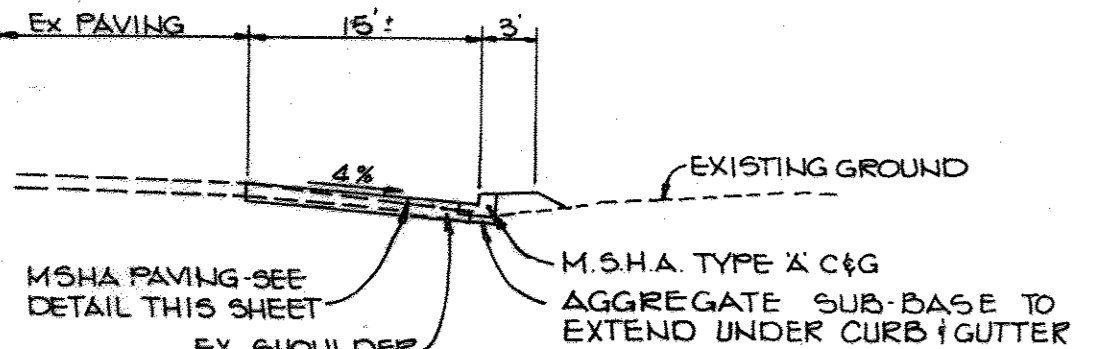


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 here by certify that these documents were prepared or approved by me and that I am a fully licensed professional engineer under the laws of the State of Maryland. License No. 26560 Exp. Date 7-18-17

PLANT SEAL MIX	1 1/2"
BITUMINOUS CONCRETE SURFACE	1 1/2"
BITUMINOUS CONCRETE BASE (2" - 3" COURSES)	1 1/2"
* 6" CR-G, OR 6" DENSE GRADED AGGREGATE BASE OR GRAVEL	1 1/2"

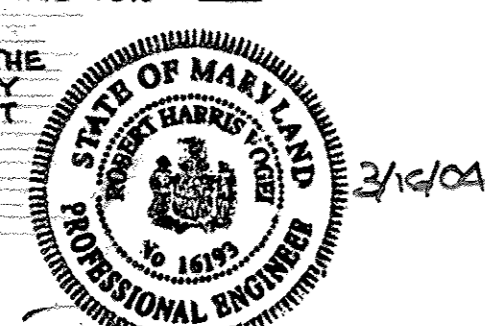
**M.S.H.A. PAVING**  
 NO SCALE

NOTE: (PK) DENOTES PARKING SPACES.  
 ALL SANITARY SEWER IMPROVEMENTS SHOWN SHALL BE PRIVATE



**U.S. ROUTE 40 ROAD WIDENING**  
 NO SCALE

**PURPOSE STATEMENT: REDLINE REVISION #2**  
 THE PURPOSE OF THIS REDLINE REVISION IS TO ADDRESS THE CURRENT BUILDING FOOTPRINT CHANGES AND MODIFY THE APPROVED LANDSCAPE PLAN BASED ON THE CURRENT HOWARD COUNTY LANDSCAPE REGULATIONS. THE BUILDING UPGRADES MATCH THE PREVIOUS APPROVED PLAN, WITHOUT THE ADDITION OF TWO OFFICE EXPANSION AREAS.



**NOTES PER REVISION #3**  
 1. THERE WILL BE NO INCREASE IN DISPLAY AREA ON THE ACURA SITE.  
 2. OVERFLOW STORAGE FROM THE ADJACENT NISSAN WEST PROPERTY WILL BE STORED AT THE REAR OF THE ACURA SITE.

NOTE: ALL CURB RADII ARE 5 UNLESS OTHERWISE NOTED.

**LEGEND**

- P1 PAVING
- P3 PAVING
- MSHA PAVING
- PAVERS
- CONCRETE
- POST & CABLE 2 1/2" HT.
- SWING GATES

DATE	NO.	REVISION
2-01-17	1	ACURA WEST LAND SCAPING & BUILDING FOOTPRINT
07-23-15	2	ACURAVEST DEALERSHIP AREA EXPANSION
8-16-04	3	ASIGN IN EXISTING STORAGE SPACES TO NISSAN WEST PROP. SERVICE BAY EXPANSION
3-17-03	4	NO ADD SALES TRAILER
7-2-01	5	ADD CANOPY TO SHOWROOM, ADD VESTIBULE
4-10-94	6	ADD ENCLOSURES TO BE CONSTRUCTED UNDER
3-25-91	7	ADD FENCE & GATES
10-29-84	8	REVISE GRADES, ELIMINATE I-7 (PER REVISION)

**OWNER / DEVELOPER**  
 NORRIS AUTO GROUP  
 925 MERRITT BOULEVARD  
 BALTIMORE, MARYLAND 21222  
 CONTACT: DAVID NORRIS COOK

**PROJECT:** ACURA NORRIS ACURA WEST AUTOMOBILE DEALERSHIP  
**AREA:** LANCELOTTA PROPERTY FLAT # 6656 PARCEL B-1 TAX MAPS 17,10,21,25 2ND ELECTION DISTRICT, HOWARD COUNTY, MD  
**TITLE:** SITE DEVELOPMENT PLAN

**THE RIEMER GROUP, INC.**  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

7-25-86	DATE
AS-BUILT	DESIGNED BY: D.A.M.
	DRAWN BY: F.D.M.
	PROJECT NO: 23500
	DATE: 2-28-86
	SCALE: 1" = 30'
	DRAWING NO. 2 OF 12

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 [Signature] 8-20-86 DATE

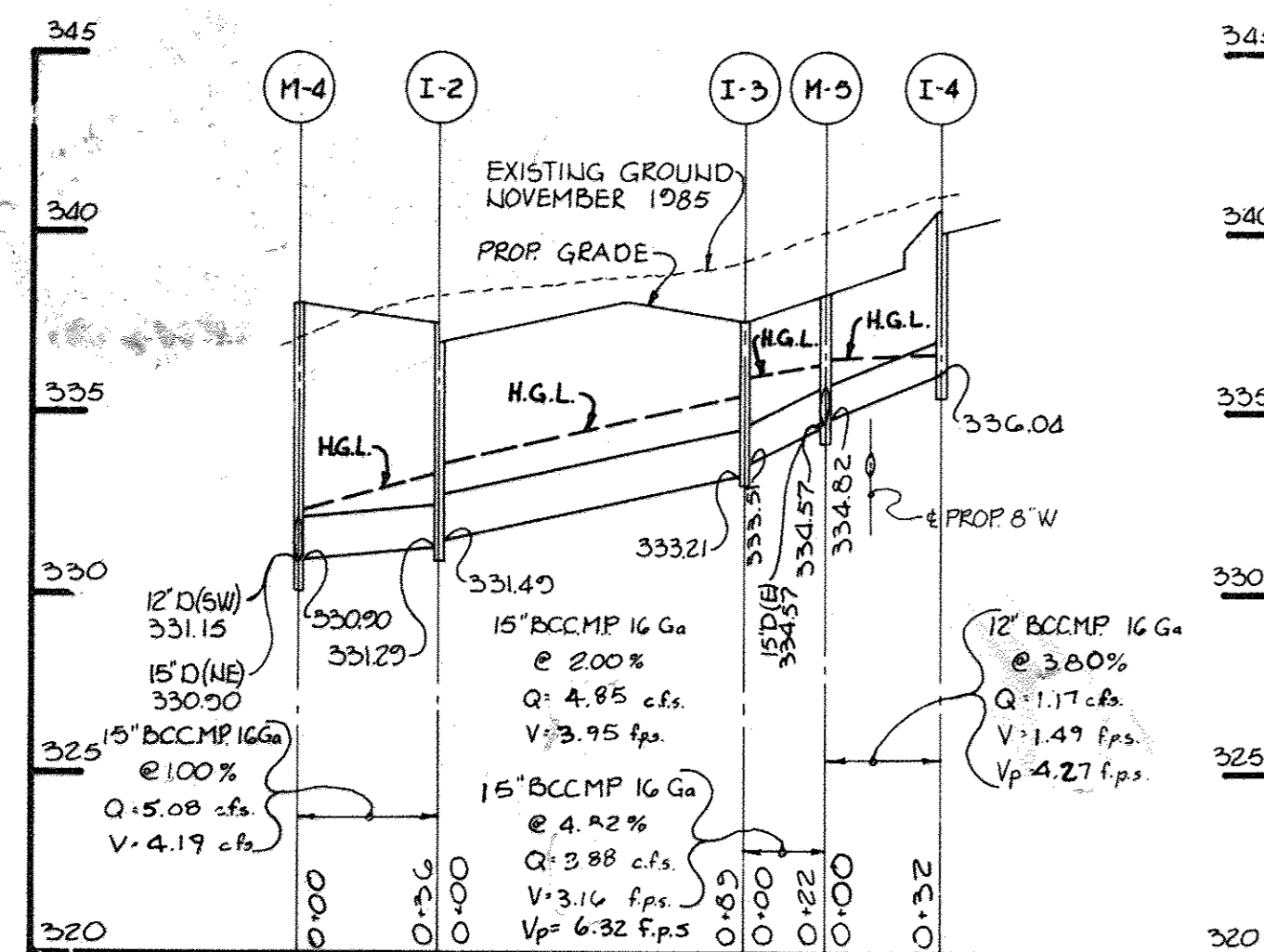
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 [Signature] 8-21-86 DATE  
 [Signature] 8-21-86 DATE  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 6-20-86

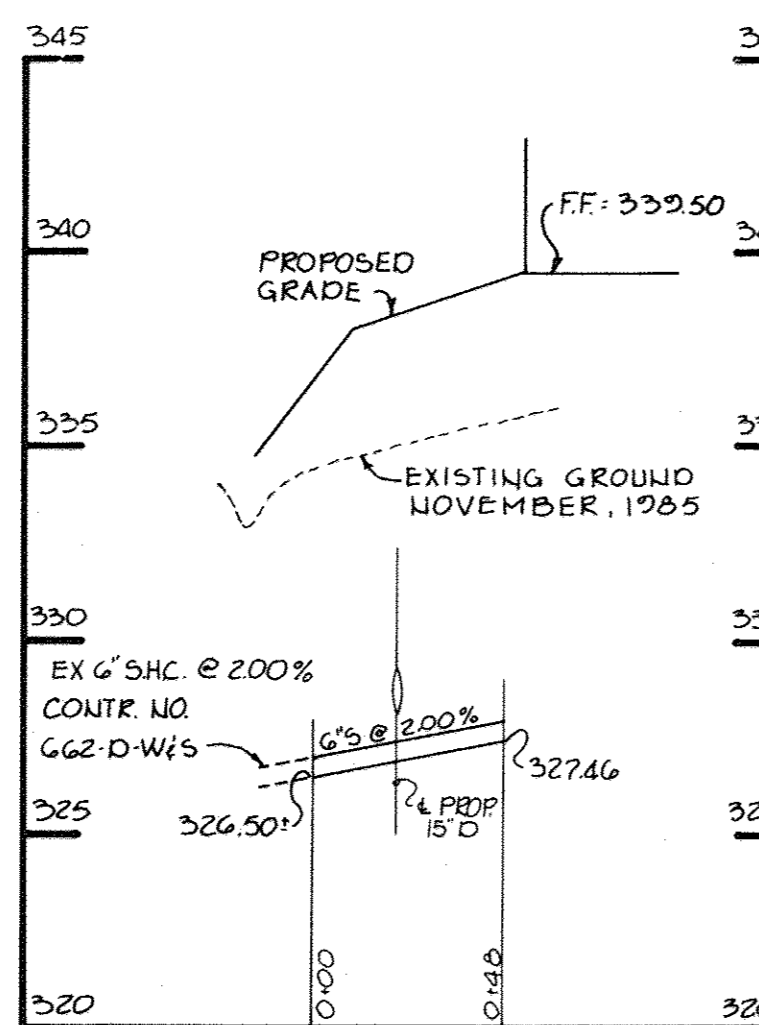


**PURPOSE STATEMENT: REDEFINE REVISION #3**

THE PURPOSE OF THIS REDEFINE REVISION IS TO BRING THE EXISTING BUILDING TO CURRENT ACURA SHOWCASE STANDARDS. THE NEW ACURA STANDARDS MANDATE NEW CUSTOMER SERVICE REQUIREMENTS. THE FOLLOWING IMPROVEMENTS PERTAIN TO SERVICE CUSTOMER INTAKE PROCEDURES AND PROTOCOLS. THE BUILDING UPGRADE WILL INCLUDE THE ADDITION OF A NEW ENCLOSED SERVICE PARKING AREA, A CAR WASH AREA AND ASSOCIATED SPACE. EXISTING DEALERSHIP CANOPIES WILL BE ENCLOSED FOR THESE PROPOSED IMPROVEMENTS.



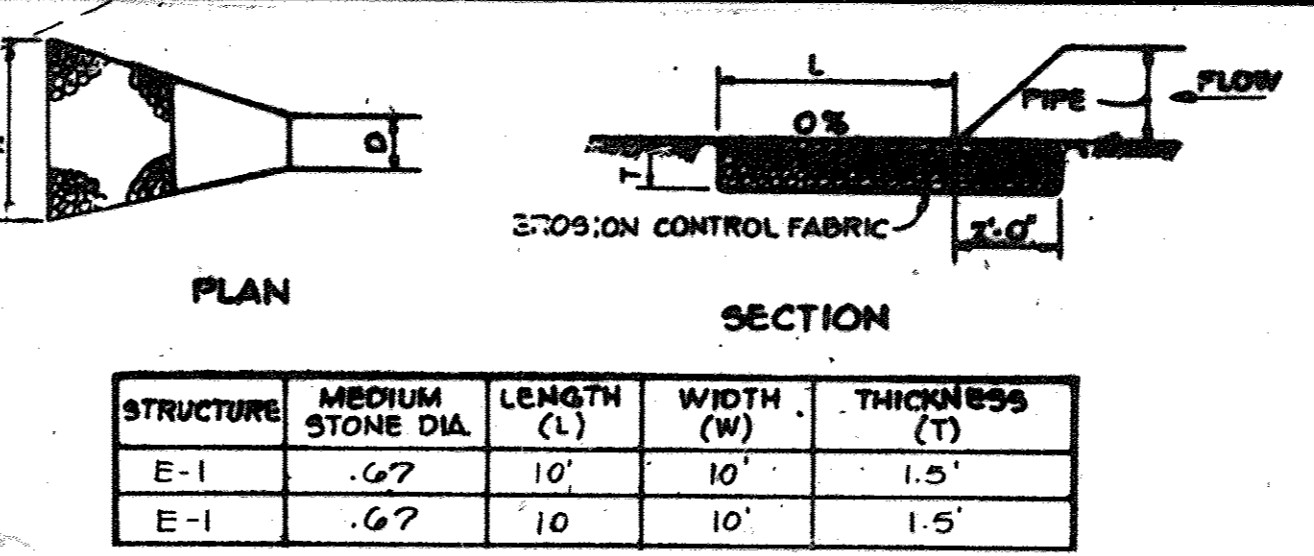
**PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



**SEWER PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

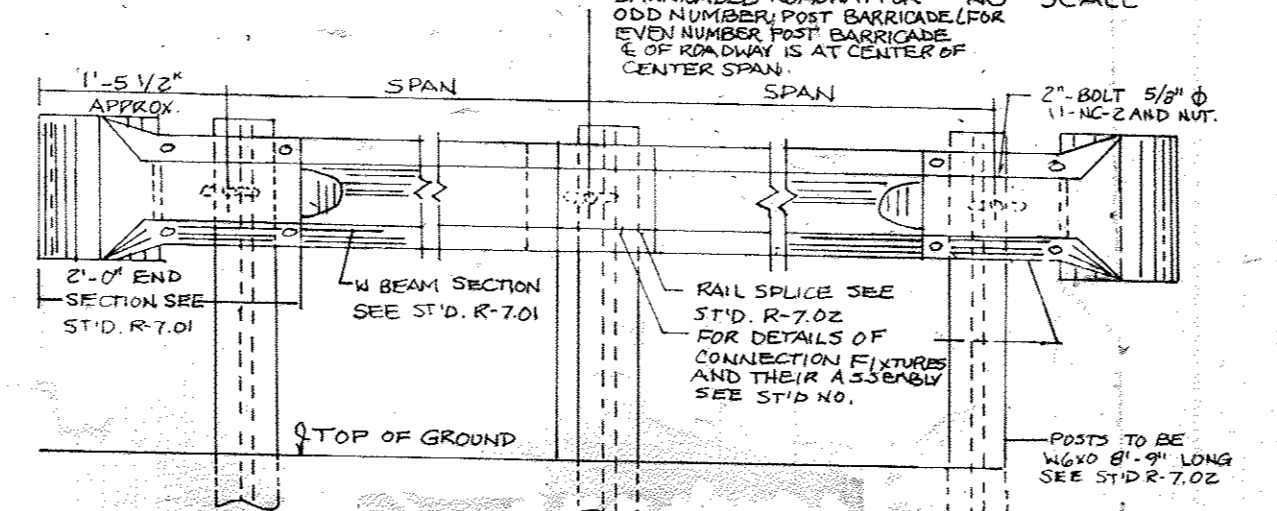
THIS IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

MATTHEW C. ZANE  
PROFESSIONAL LAND SURVEYOR  
LIC. # 21734 (EXP. 12-12-19)  
DATE: 01-05-18



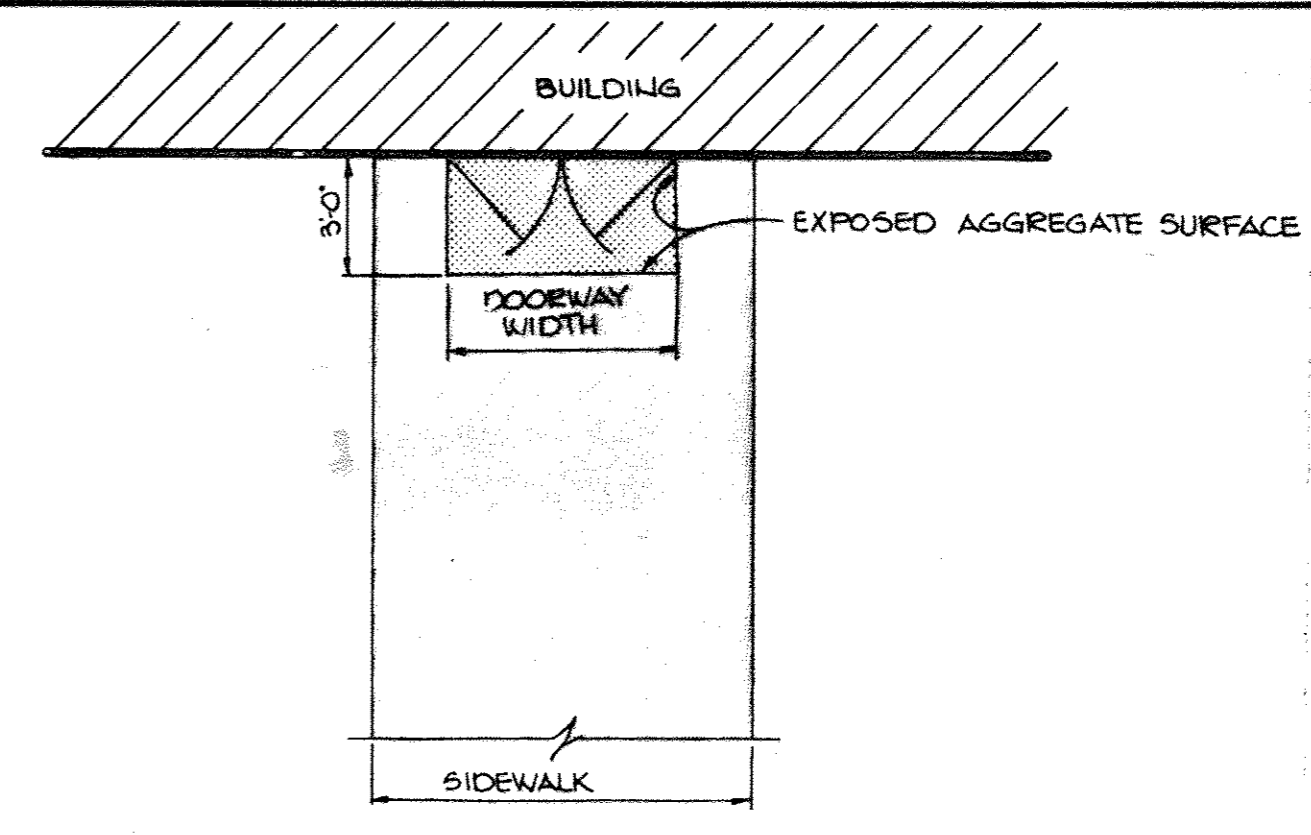
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E-1	.67	10	10'	1.5'

**OUTLET PROTECTION**



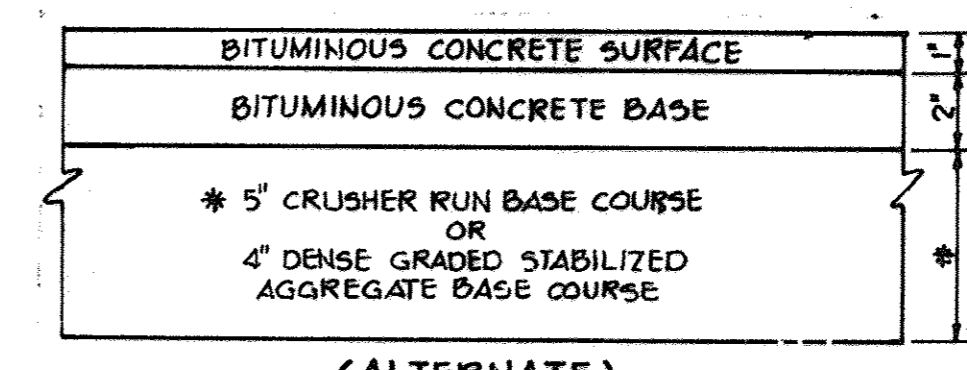
**METAL BARRICADE**

NO SCALE  
SEE HO. CO. STD. DETAIL # 7.12

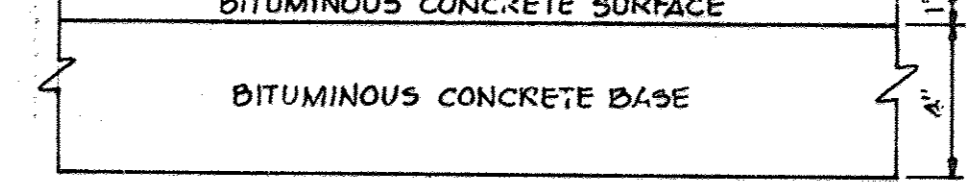


**DETAIL BUILDING ENTRANCE TEXTURAL IDENTIFICATION FOR THE BLIND**

NOTE: TO BE USED FOR ALL BUILDING ENTRANCES EXCEPT THOSE THAT ARE EXCLUSIVELY FIRE EXITS

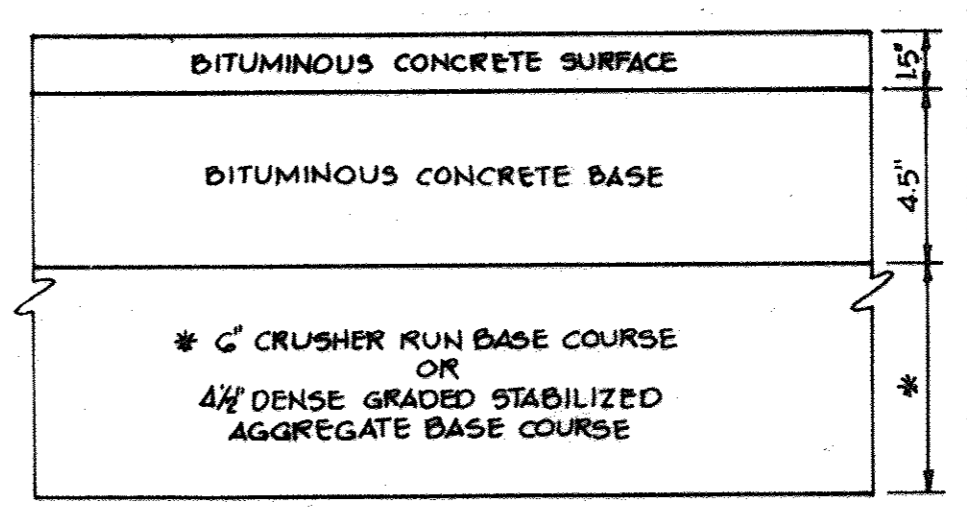


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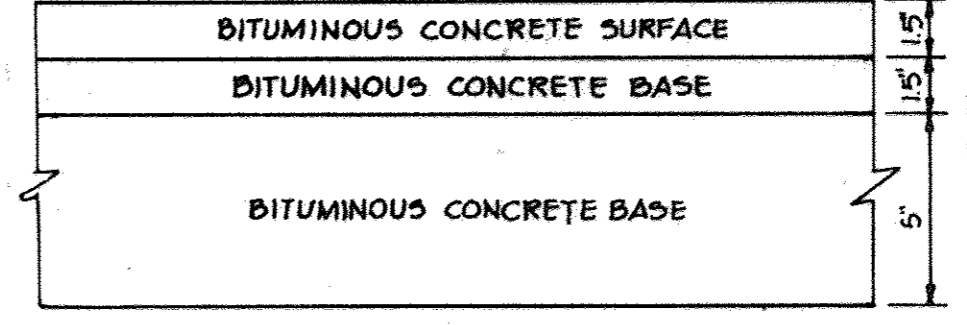


HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

(5" PAVING, P-1)

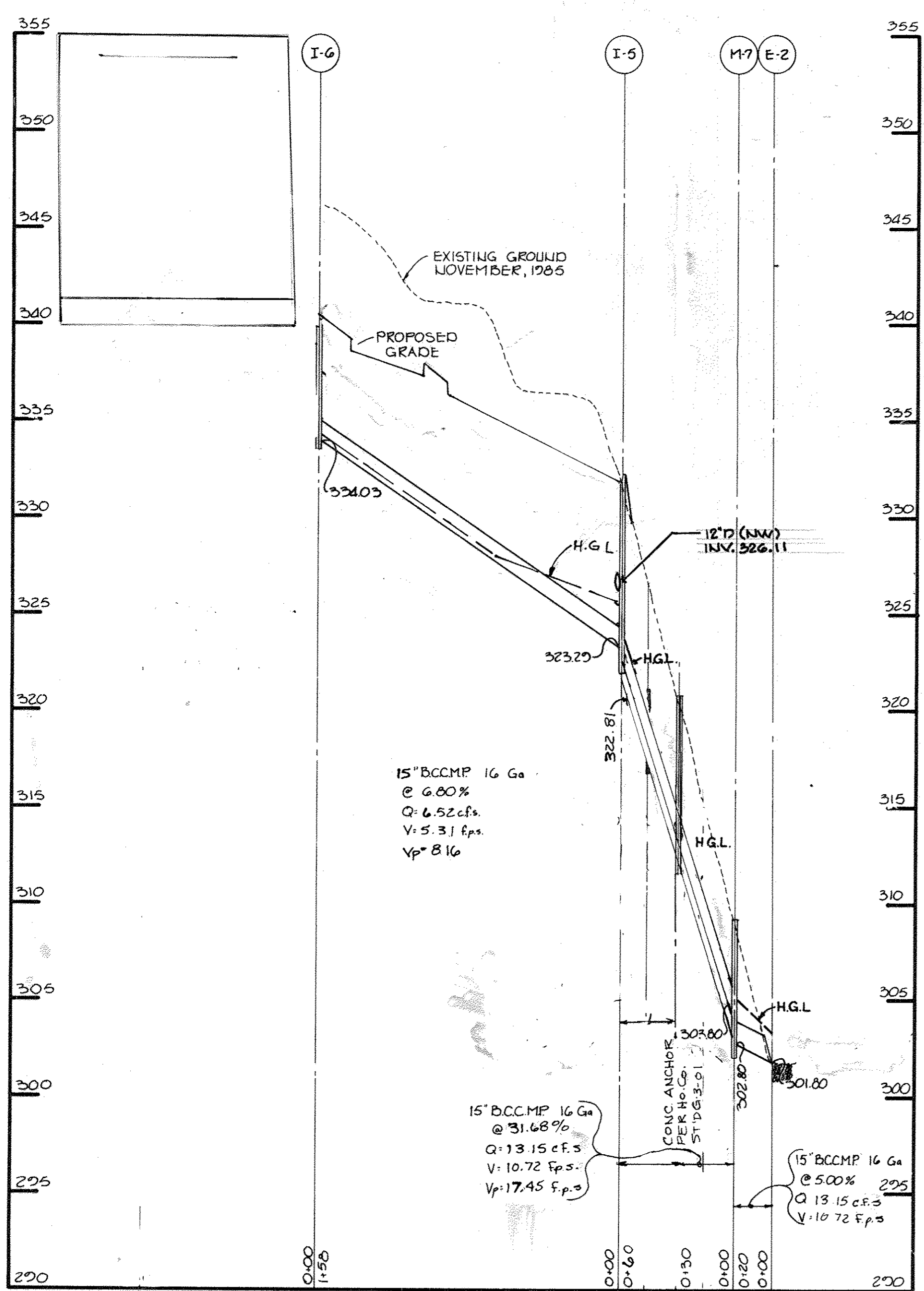


(ALTERNATE)



HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

(8" PAVING, P-3)

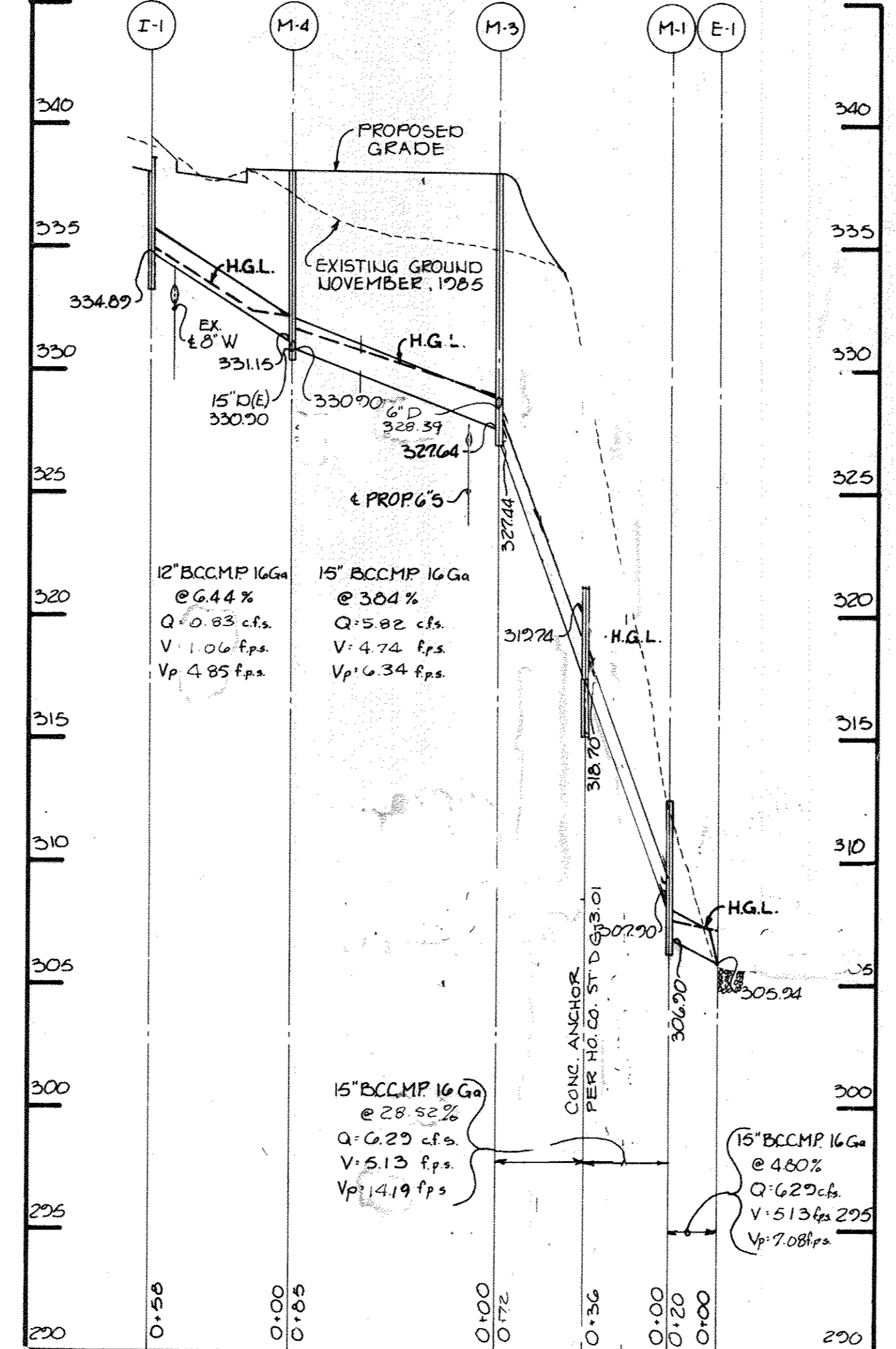


**PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

I 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.

2-2-18 License No. 26569 Exp. Date 7-18-19

PROF. ENGR 26569  
There is no "As-Built" information provided on this sheet



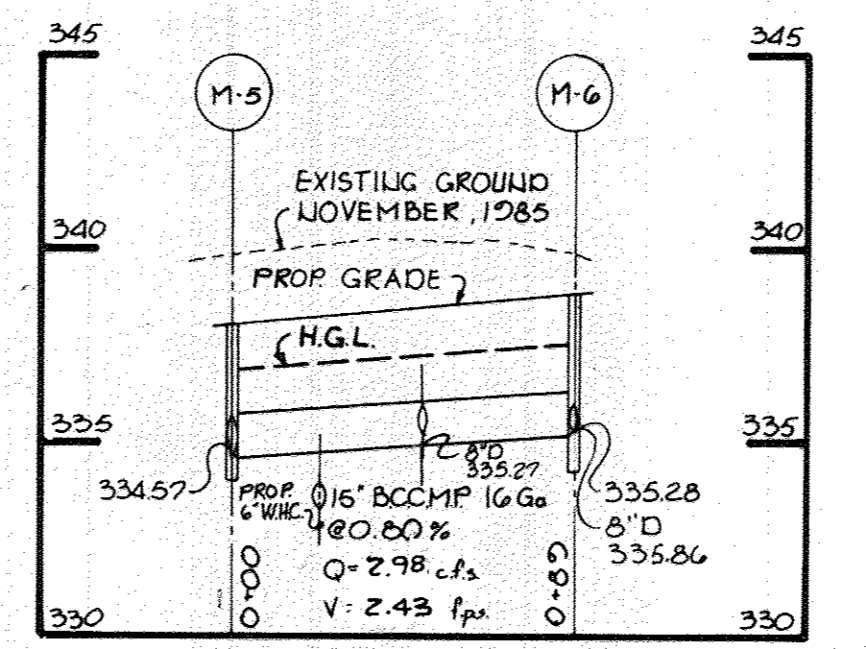
**PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

**M.S.H.A. TYPE 'A' CURB AND GUTTER**

NO SCALE

**SECTION 'A-A' HANDICAP RAMP DETAIL**

NO SCALE



**PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

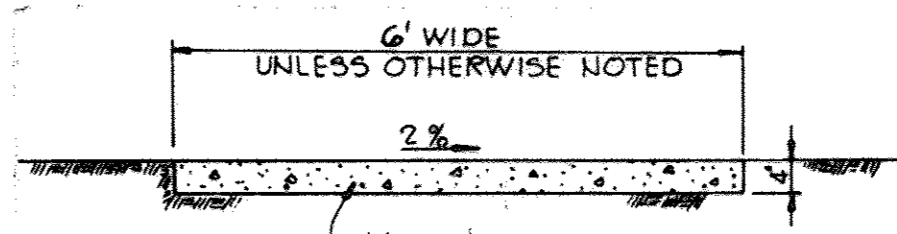


LEGEND AND BORDER - GREEN  
WHITE SYMBOLS ON BLUE BACKGROUND  
BACKGROUND - WHITE

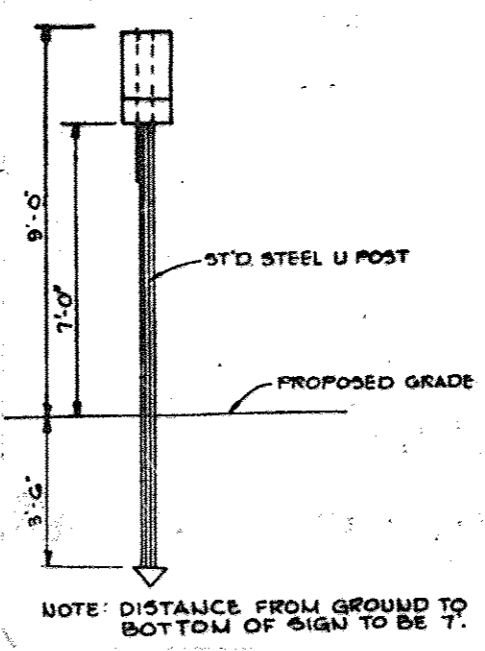


TO BE MOUNTED BELOW RESERVED PARKING SIGN ON THE STD STEEL U POST

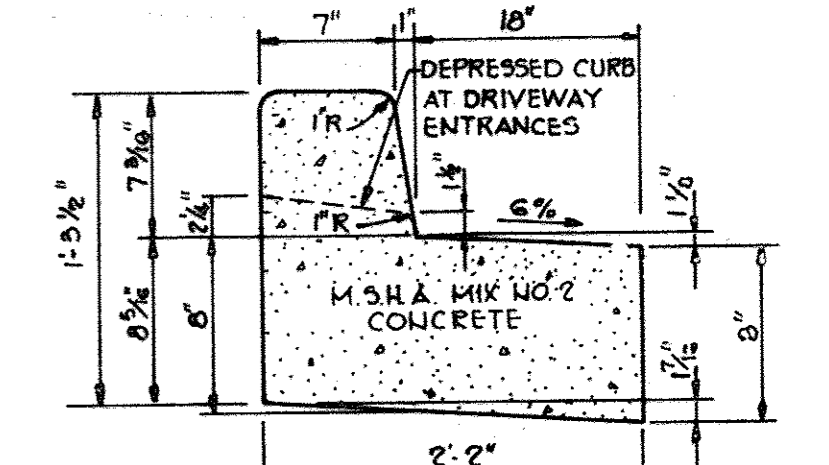
**HANDICAP SIGN DETAIL**  
NO SCALE



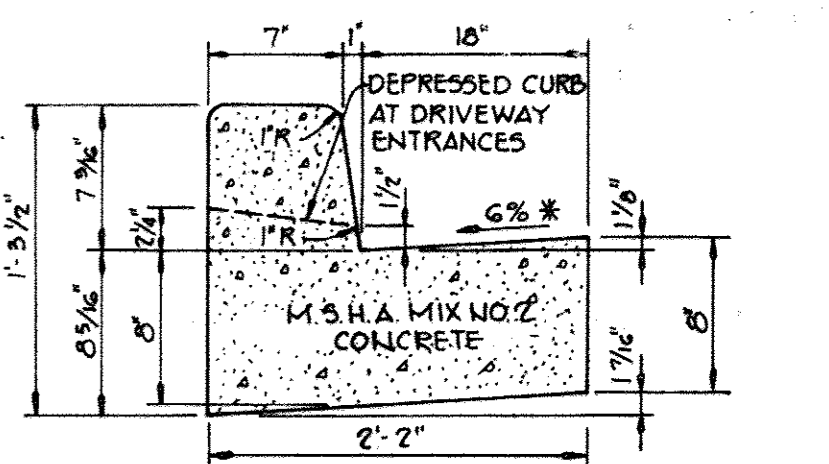
**SIDEWALK DETAIL**  
NO SCALE



NOTE: DISTANCE FROM GROUND TO BOTTOM OF SIGN TO BE 7'



**REVERSE 7" COMBINATION CURB AND GUTTER**  
NO SCALE



**STANDARD 7" COMBINATION CURB AND GUTTER**  
NO SCALE

HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED: *[Signature]* 8-20-89  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

APPROVED: *[Signature]* 8-21-86  
PLANNING DIRECTOR DATE

APPROVED: *[Signature]* 8-21-86  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: *[Signature]* 8-17-16  
DIRECTOR DATE

APPROVED: *[Signature]* 8-18-85  
CHIEF, BUREAU OF ENGINEERING DATE

10-28-84 ELIMINATE I-7, M-2 & M-8, REVISE BARRICADE

7-29-15 ACURA WEST DEALERSHIP SER. AREA EXPANSION

OWNER/DEVELOPER  
NOZZIS AUTO GROUP  
225 MERRITT BOULEVARD  
BALTIMORE, MARYLAND 2122  
CONTACT: DAVID NOZZIS, COO

PROJECT: ACURA-NORRIS ACURA WEST  
AUTOMOBILE DEALERSHIP

AREA LANCELOTTA PROPERTY PLAT NO GG5G  
PARCEL B-1 TAX MAPS 17, 18, 24 125  
2ND ELECTION DISTRICT, HOWARD COUNTY, MD

TITLE: DETAILS AND PROFILES

THE RIEMER GROUP, INC.  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2890

DATE: 7-25-86  
AS-BUILT

DESIGNED BY: D.A.M.  
DRAWN BY: F.D.M.

PROJECT NO: 23700  
DATE: 2-28-86  
SCALE: AS SHOWN

DRAWING NO. 3 OF 12

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 6-20-86  
*[Signature]*

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 26569 EXPIRATION DATE: 7-18-17

FOR REVISION ONLY  
DATE: 1-18-16  
PROFESSIONAL ENGR. NO. 26569

NOTE: GRASS OUTLET TRAP OUTLET AREA TO BE STABILIZED WITH STONE IF DEEMED NECESSARY BY THE SEDIMENT CONTROL INSPECTOR

GRASS OUTLET TRAP DATA  
DRAINAGE AREA: 0.02 ac  
VOLUME REQ.: 1080 cuft  
VOLUME PROV.: 1923 cuft  
CREST ELEV.: 333.0  
CLEANOUT ELEV.: 331.5  
BOTTOM ELEV.: 330.0  
CREST WIDTH: 3  
BOTTOM DIM.: 24"x8"

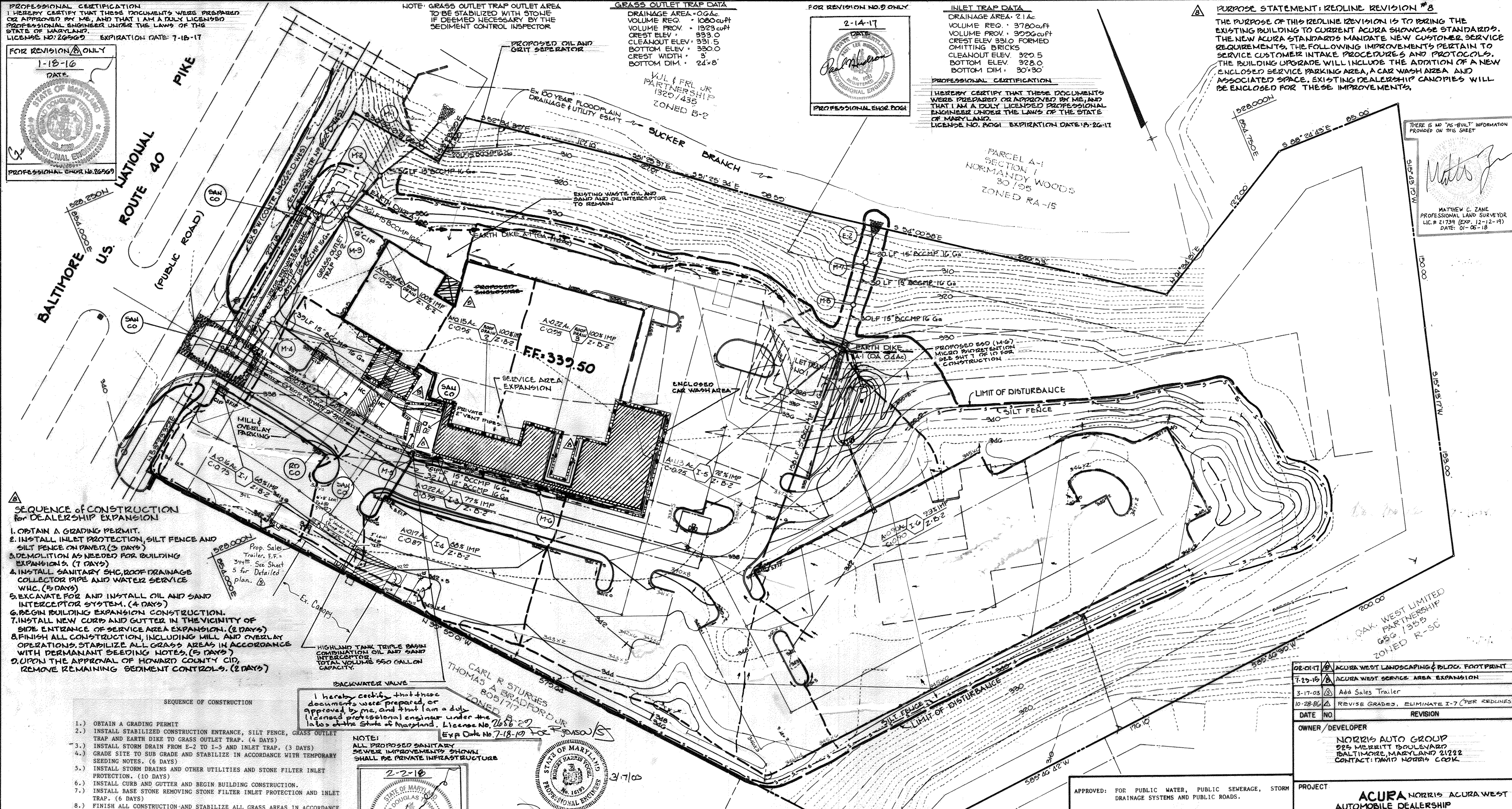
FOR REVISION NO. 9 ONLY  
DATE: 2-14-17  
PROFESSIONAL ENGR. NO. 8061

INLET TRAP DATA  
DRAINAGE AREA: 2.1 ac  
VOLUME REQ.: 3780 cuft  
VOLUME PROV.: 3000 cuft  
CREST ELEV.: 330.0  
CLEANOUT ELEV.: 329.5  
BOTTOM ELEV.: 328.0  
BOTTOM DIM.: 30"x30"

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 8061 EXPIRATION DATE: 12-26-17

PURPOSE STATEMENT: REDLINE REVISION #8  
THE PURPOSE OF THIS REDLINE REVISION IS TO BRING THE EXISTING BUILDING TO CURRENT ACURA SHOWCASE STANDARDS. THE NEW ACURA STANDARDS MANDATE NEW CUSTOMER SERVICE REQUIREMENTS. THE FOLLOWING IMPROVEMENTS PERTAIN TO SERVICE CUSTOMER INTAKE PROCEDURES AND PROTOCOLS. THE BUILDING UPGRADE WILL INCLUDE THE ADDITION OF A NEW ENCLOSED SERVICE PARKING AREA, A CAR WASH AREA AND ASSOCIATED SPACE. EXISTING DEALERSHIP CANOPIES WILL BE ENCLOSED FOR THESE IMPROVEMENTS.

THIS IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET  
MATTHEW C. ZANE  
PROFESSIONAL LAND SURVEYOR  
LIC. # 21734 (EXP. 12-12-19)  
DATE: 01-05-18



- SEQUENCE OF CONSTRUCTION FOR DEALERSHIP EXPANSION
- OBTAIN A GRADING PERMIT.
  - INSTALL INLET PROTECTION, SILT FENCE AND SILT FENCE ON PAVED. (3 DAYS)
  - DEMOLITION AS NEEDED FOR BUILDING EXPANSIONS. (7 DAYS)
  - INSTALL SANITARY SHC, ROOF DRAINAGE COLLECTOR PIPE AND WATER SERVICE W.H.C. (5 DAYS)
  - EXCAVATE FOR AND INSTALL OIL AND SAND INTERCEPTOR SYSTEM. (4 DAYS)
  - BEGIN BUILDING EXPANSION CONSTRUCTION.
  - INSTALL NEW CURB AND GUTTER IN THE VICINITY OF SIDE ENTRANCE OF SERVICE AREA EXPANSION. (2 DAYS)
  - FINISH ALL CONSTRUCTION, INCLUDING MILL AND OVERLAY OPERATIONS, STABILIZE ALL GRASS AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (5 DAYS)
  - UPON THE APPROVAL OF HOWARD COUNTY CIP, REMOVE REMAINING SEDIMENT CONTROLS. (2 DAYS)

- SEQUENCE OF CONSTRUCTION
- OBTAIN A GRADING PERMIT
  - INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, GRASS OUTLET TRAP AND EARTH DIKE TO GRASS OUTLET TRAP. (4 DAYS)
  - INSTALL STORM DRAIN FROM E-2 TO I-5 AND INLET TRAP. (3 DAYS)
  - GRADE SITE TO SUB GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES. (6 DAYS)
  - INSTALL STORM DRAINS AND OTHER UTILITIES AND STONE FILTER INLET PROTECTION. (10 DAYS)
  - INSTALL CURB AND GUTTER AND BEGIN BUILDING CONSTRUCTION.
  - INSTALL BASE STONE REMOVING STONE FILTER INLET PROTECTION AND INLET TRAP. (6 DAYS)
  - FINISH ALL CONSTRUCTION AND STABILIZE ALL GRASS AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
  - UPON THE APPROVAL OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR REMOVE REMAINING SEDIMENT CONTROL.

STRUCTURE SCHEDULE

STRUCTURE	TYPE	INV IN	INV OUT	TOP OF CURB	REMARKS
I-1	5" comb	331.49	333.93	338.7	Ho. Co. ST'D SD 4.32
I-2	5" comb	331.29	333.76	337.6	Ho. Co. ST'D SD 4.32
I-3	5" comb	333.51	333.21	388.2	Ho. Co. ST'D SD 4.32
I-4	5" comb	336.04	340.8	340.8	Ho. Co. ST'D SD 4.32
I-5	5" comb	323.29	322.80	332.4	Ho. Co. ST'D SD 4.32
I-6	5" comb	334.23	334.03	340.3	Ho. Co. ST'D SD 4.32
I-7	5" comb	307.90	338.50	343.0	Ho. Co. ST'D SD 4.32
M-1	4'-0 dia manhole	319.74	306.90	*311.7	Ho. Co. ST'D G 5.12
M-2	4'-0 dia manhole	319.74	318.74	*330.2	Ho. Co. ST'D G 5.12
M-3	4'-0 dia manhole	327.64	327.44	*338.4	Ho. Co. ST'D G 5.12
M-4	4'-0 dia manhole	12" 331.15	330.90	*337.9	Ho. Co. ST'D G 5.12
M-5	4'-0 dia manhole	15" 330.90	334.57	*338.0	Ho. Co. ST'D G 5.12
M-6	4'-0 dia manhole	15" 334.82	335.28	*338.9	Ho. Co. ST'D G 5.12
M-7	4'-0 dia manhole	303.80	302.80	*309.0	Ho. Co. ST'D G 5.12
M-8	4'-0 dia manhole	313.80	312.80	*320.8	Ho. Co. ST'D G 5.12
E-1	15" metal end section	305.94	305.94	---	Ho. Co. ST'D SD 5.61
E-2	15" metal end section	301.80	301.80	---	Ho. Co. ST'D SD 5.61

\* ELEVATION AT RIM

I 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. 26569 Exp. Date No. 7-18-17

NOTE: ALL PROPOSED SANITARY SEWER IMPROVEMENTS SHOWN SHALL BE PRIVATE INFRASTRUCTURE

2-2-16  
PROF. ENGR. 26569

STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
No. 16193  
2/7/10

BY THE DEVELOPER:  
"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."  
David Muegge DEVELOPER 7/23/1886 DATE

BY THE ENGINEER:  
"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."  
Arthur E. Muegge ENGINEER 7-25-86 DATE  
ARTHUR E. MUEGGE #8707

PURPOSE STATEMENT REDLINE REV.#9  
THE PURPOSE OF THIS REDLINE REVISION IS TO ADDRESS THE CURRENT BUILDING FOOTPRINT FIELD CHANGES AND MODIFY THE APPROVED LANDSCAPE PLAN BASED ON CURRENT HOWARD COUNTY LANDSCAPE REGULATIONS. THE BUILDING UPGRADES MATCH THE PREVIOUS APPROVED PLAN WITHOUT THE ADDITION OF TWO OFFICE EXPANSION AREAS.

REVIEWED FOR: Howard NAME S.C.D.  
AND MEETS TECHNICAL REQUIREMENTS

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
James M. Helms U.S. SOIL CONSERVATION SERVICE 8/14/86 DATE  
L. J. Helms CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 8-14-86 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
Howard County Department of Public Works  
Director: [Signature] 8-18-86 DATE  
Chief, Bureau of Engineering: [Signature] 8-18-86 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
James B. [Signature] 8-20-86 DATE  
COUNTY HEALTH OFFICER

APPROVED: OFFICE OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 6-20-86

DATE	NO.	REVISION
02-01-17	1	ACURA WEST LANDSCAPING & BLDG. FOOTPRINT
7-23-16	2	ACURA WEST SERVICE AREA EXPANSION
3-17-03	3	Add Sales Trailer
10-28-86	4	REVISE GRADES, ELIMINATE I-7 (PER REDLINES)

OWNER/DEVELOPER  
NORRIS AUTO GROUP  
925 MERRITT BOULEVARD  
BALTIMORE, MARYLAND 21222  
CONTACT: DAVID NORRIS COOK

PROJECT: ACURA NORRIS ACURA WEST AUTOMOBILE DEALERSHIP  
AREA: LALCELOTTA PROPERTY PLAT NO. GG56 PARCEL B-1 TAX MAPS 17.10.24+25 2ND ELECTION DISTRICT, HOWARD COUNTY, MD.  
TITLE: DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN

THE RIEMER GROUP, INC.  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

DATE: 7-25-86  
AS-BUILT  
DESIGNED BY: D.A.M.  
DRAWN BY: F.D.M.  
PROJECT NO: 25700  
DATE: 2-20-86  
SCALE: 1"=30'  
DRAWING NO. 4 OF 12

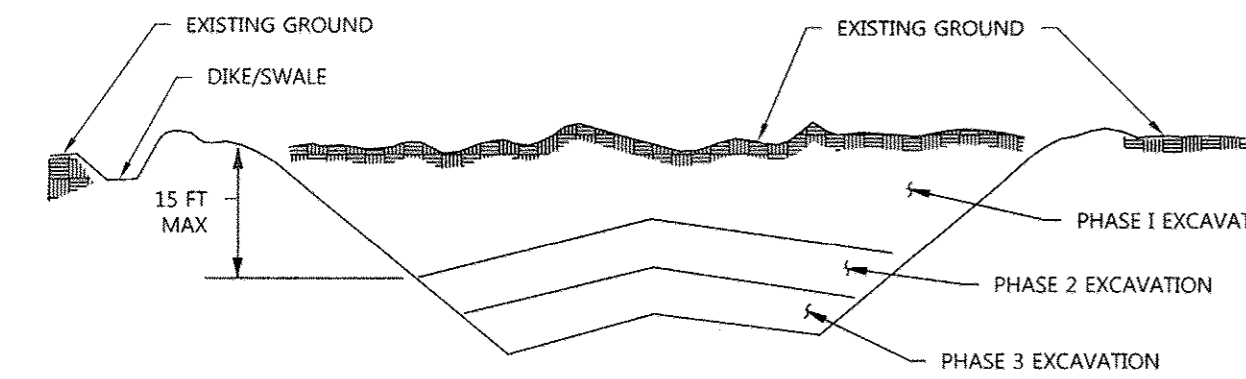


STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

(B-4-1) SECTION 1 - INCREMENTAL STABILIZATION

- A. INCREMENTAL STABILIZATION - CUT SLOPES
1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT.
2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.1.)
a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
b. PERFORM PHASE I EXCAVATION, PREPARE SEEDBED, AND STABILIZE.
c. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE OVERSEED PHASE 1 AREAS AS NECESSARY.
d. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE EXCAVATION HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

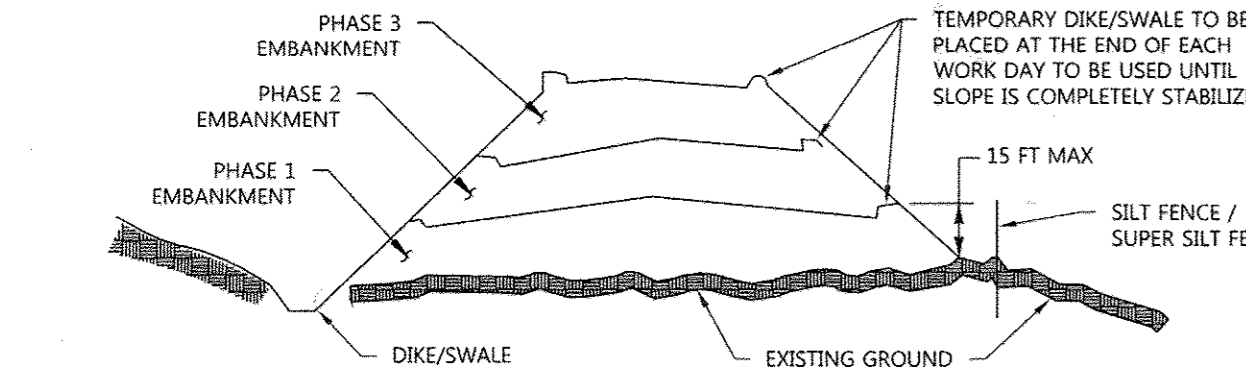


B. INCREMENTAL STABILIZATION - FILL SLOPES

- 1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS DESCRIBED IN THE PLANS.
3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICES, AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2.)

- a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL CONSTRUCTION SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA.
b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICES, AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
c. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.
d. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.
e. PLACE FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.



(B-4-2) SECTION 2 - SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

- A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT...
b. APPLY FERTILIZER AND LIME AS DESCRIBED ON THE PLANS.
c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
2. PERMANENT STABILIZATION
a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE...
i. SOIL PH BETWEEN 6.0 AND 7.0.
ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT EXCEEDS FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY)...
iv. SOIL CONTAINS 15 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN...
d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS...
B. TOPSOILING
1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION...
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS...
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:

- a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND...
b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
D. TOPSOIL APPLICATION
a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 3 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES...
c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MOIDY CONDITION...
c. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER...
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION...
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME) WHICH MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING...
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE 200-400 POUNDS PER 1,000 SQUARE FEET PRIOR TO THE PLACEMENT OF TOPSOIL.

(B-4-3) SECTION 3 - SEEDING AND MULCHING

- A. SEEDING
1. SPECIFICATIONS
a. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW...
b. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN...
c. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA...
d. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL...
2. APPLICATION
a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
i. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES DESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
ii. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER...
b. DRILL OR CULPICKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.
i. CULPICKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING...
ii. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER...
c. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
i. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING...
ii. LIME: ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE) MAY BE APPLIED BY HYDROSEEDING...
iii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.
B. MULCHING
1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY...
b. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
i. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE...
ii. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
iii. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION...
iv. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC...
2. APPLICATION
a. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE...
c. WOOD CELLULOSE FIBER MULCH AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE...
3. ANCHORING
a. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH...
i. A MULCH ANCHORING TOOL IS A TRACTOR MOUNTED IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL...
ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW...
iii. SYNTHETIC BINDERS SUCH AS ACRYLIC ULR (AGRO-TACK), DCA-70, PEROSET, TERRA TAX II, TERRA TACK AR OR OTHER

APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER...
b. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).
GENERAL SPECIFICATIONS
a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED...
b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS...
c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT...
d. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT...
e. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS...
DOD INSTALLATION
a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL...
b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT...
c. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR...
d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING...
e. SOD MAINTENANCE
a. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK...
b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY...
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED...
(H-1) STANDARDS AND SPECIFICATIONS FOR MATERIALS

(B-4-4) SECTION 4 - TEMPORARY STABILIZATION

- EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.
CRITERIA:
1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE...
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY...
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3 A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

Table with 6 columns: Season, Species, Application Rate (lb./Ac), Seeding Dates, Seeding Depths, Fertilizer Rate (10-20-20), Lime Rate. Rows include Cool Annual Ryegrass, Warm Foxtail Millet, and Seed Mixture No. 9 (Hardness Zone 7A).

- SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS)...
SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS...
OATS ARE THE RECOMMENDED NURSE CROP FOR WARM-SEASON GRASSES.
FOR SANDY SOILS, PLANT SEEDS AT TWICE THE DEPTH LISTED ABOVE.
THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE AND MAY REQUIRE ADJUSTMENT TO REFLECT LOCAL CONDITIONS.

- (B-4-5) SECTION 5 - PERMANENT STABILIZATION
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE
A. SEED MIXTURES
1. GENERAL USE
a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE...
b. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES...
c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
d. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER...
2. TURFGRASS MIXTURES
a. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES...
b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE...
3. KENTUCKY BLUEGRASS: FULL SUN MIXTURE FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT...
4. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE FOR USE IN FULL SUN AREAS...
5. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE FOR USE IN DROUGHT PRONE AREAS...
6. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS...
7. TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND: CHOOSE CERTIFIED MATERIAL...
8. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES
WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDNESS ZONES: 5B, 6A)
CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONE: 6B)
SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES: 7A, 7B)
9. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH...
10. RECOMMENDED TEST METHODOLOGIES ARE PROVIDED IN TEST METHODS FOR THE EXAMINATION OF COMPOSTING AND COMPOST (TMC, THE U.S. COMPOSTING COUNCIL).

Table H.1: GEOTEXTILE FABRICS. Columns include Property, Test Method, and Minimum Average Roll Value for Woven Silt Film Geotextile, Woven Monofilament Geotextile, and Nonwoven Geotextile. Properties include Grab Tensile Strength, Elongation, Tear Strength, Puncture Strength, Apparent Opening Size, Permittivity, and Ultraviolet Resistance.

PURPOSE STATEMENT: REDLINE REVISION #8
THE PURPOSE OF THIS REDLINE REVISION IS TO BRING THE EXISTING BUILDING TO CURRENT ACURA SHOWCASE STANDARDS. THE NEW ACURA STANDARDS MANDATE NEW CUSTOMER SERVICE REQUIREMENTS...
1. ALL NUMERIC VALUES EXCEPT APPARENT OPENING SIZE (AOS) REPRESENT MINIMUM AVERAGE ROLL VALUES (MARV)...
2. VALUES FOR AOS REPRESENT THE AVERAGE MAXIMUM OPENING.
GEOTEXTILES MUST BE EVALUATED BY THE NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPPE) AND CONFORM TO THE VALUES IN TABLE H.1.

THE GEOTEXTILE MUST BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS...
WHEN MORE THAN ONE SECTION OF GEOTEXTILE IS NECESSARY, OVERLAP THE SECTIONS BY AT LEAST ONE FOOT...
TABLE H.2: STONE SIZES
Columns: Number, Size Range, d50, d100, AASHTO, MIDSIZE WEIGHT.

- 1. THIS CLASSIFICATION IS TO BE USED ON THE UPSTREAM FACE OF STONE OUTLETS AND CHECK DAMS.
2. THIS CLASSIFICATION IS TO BE USED FOR GABIONS.
3. OPTIMUM GRADATION IS 50 PERCENT OF THE STONE BEING ABOVE AND 50 PERCENT BELOW THE MIDSIZE.
STONE MUST BE COMPOSED OF A WELL GRADED MIXTURE OF STONE SIZED SO THAT FIFTY (50) PERCENT OF THE PIECES BY WEIGHT ARE LARGER THAN THE SIZE DETERMINED BY USING THE CHARTS...
NOTE: RECYCLED CONCRETE EQUIVALENT MAY BE SUBSTITUTED FOR ALL STONE CLASSIFICATIONS FOR TEMPORARY CONTROL MEASURES ONLY...
TABLE H.3: COMPOST
Columns: Parameters, Acceptable Range. Parameters include pH, Moisture content, Organic matter content, Particle size, Physical contaminants.

ADAPTED FROM AASHTO STANDARDS SPECS FOR COMPOST FILTER SOCKS AND EPA EXAMPLE COMPOST FILTER PARAMETERS.
1. RECOMMENDED TEST METHODOLOGIES ARE PROVIDED IN TEST METHODS FOR THE EXAMINATION OF COMPOSTING AND COMPOST (TMC, THE U.S. COMPOSTING COUNCIL).

Table H.3: COMPOST. Columns: Parameters, Acceptable Range. Parameters include pH (5.0 - 8.5), Moisture content (30% - 60%), Organic matter content (25% - 65%), Particle size (various mesh sizes), Physical contaminants (<1% dry weight basis).

FOR REVISION ONLY
PROFESSIONAL CERTIFICATION
I 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. 26569, EXPIRATION DATE: 7-18-17.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

Approval stamps and signatures including dates (7-26-16, 3-01-16, 3-2-16) and titles (Chief, Director) for various departments.

AS-BUILT ACURA WEST DEALERSHIP SERVICE AREA EXPANSION. Includes title block with project name, owner information (NORRIS ACURA WEST), owner/developer details (NORRIS AUTO GROUP), and sediment and erosion control specifications.

Vertical text on the left margin: MARYLAND STATE DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STATE OF MARYLAND, PROFESSIONAL ENGINEER, MATTHEW C. ZANE, LICENSE NO. 26569, EXPIRATION DATE 7-18-17.

Professional Engineer Seal for Matthew C. Zane, License No. 26569, Exp. Date 7-18-17. Includes a handwritten note: 'There is no "As-Built" information provided on this sheet.'

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

*Matthew C. Zane*

MATTHEW C. ZANE  
PROFESSIONAL LAND SURVEYOR  
LIC.# 21739 (ENR) 12-12-14  
DATE: 01-05-18

2-2-18

There is no "As-Built" information provided on this sheet.

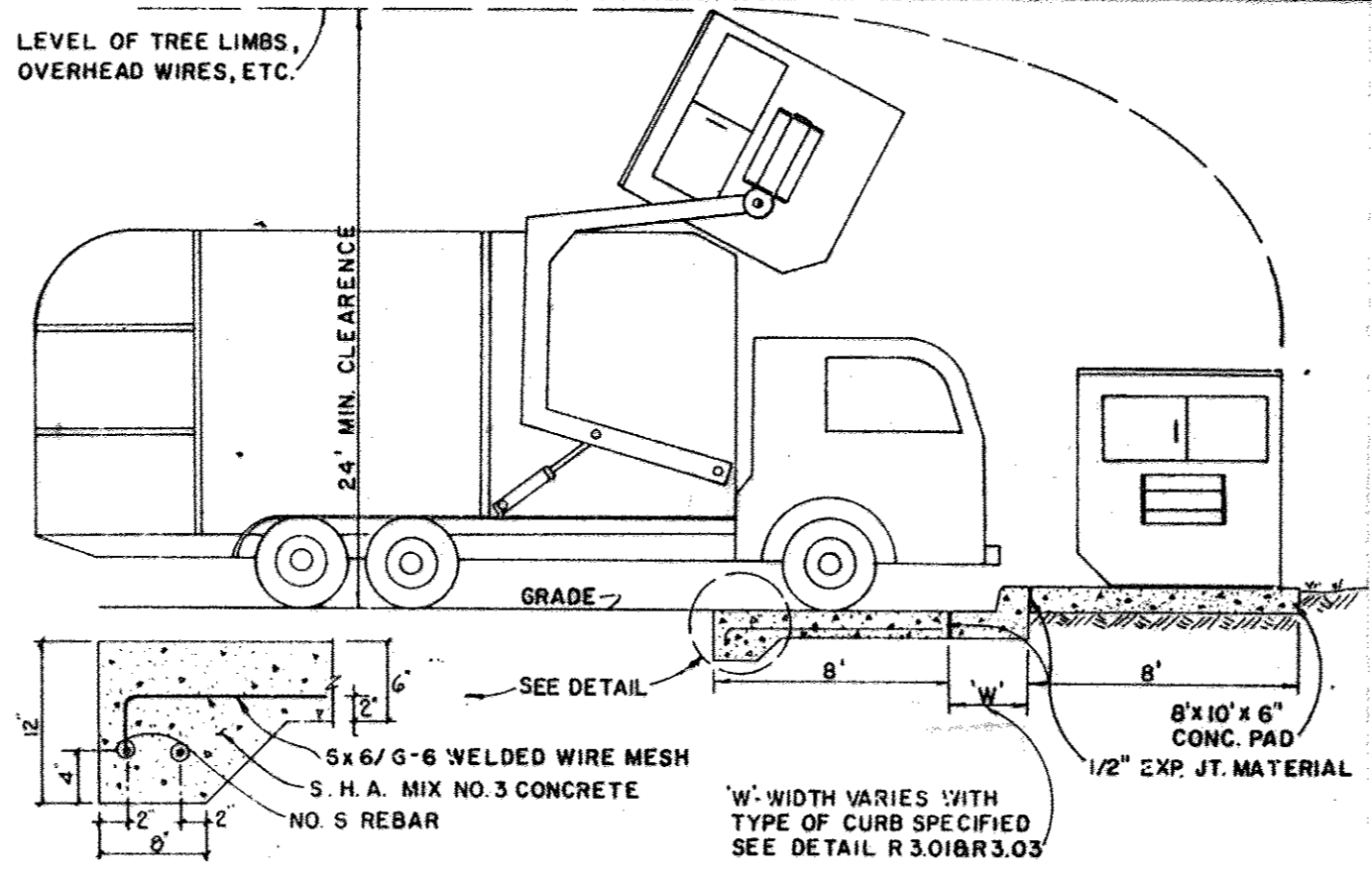
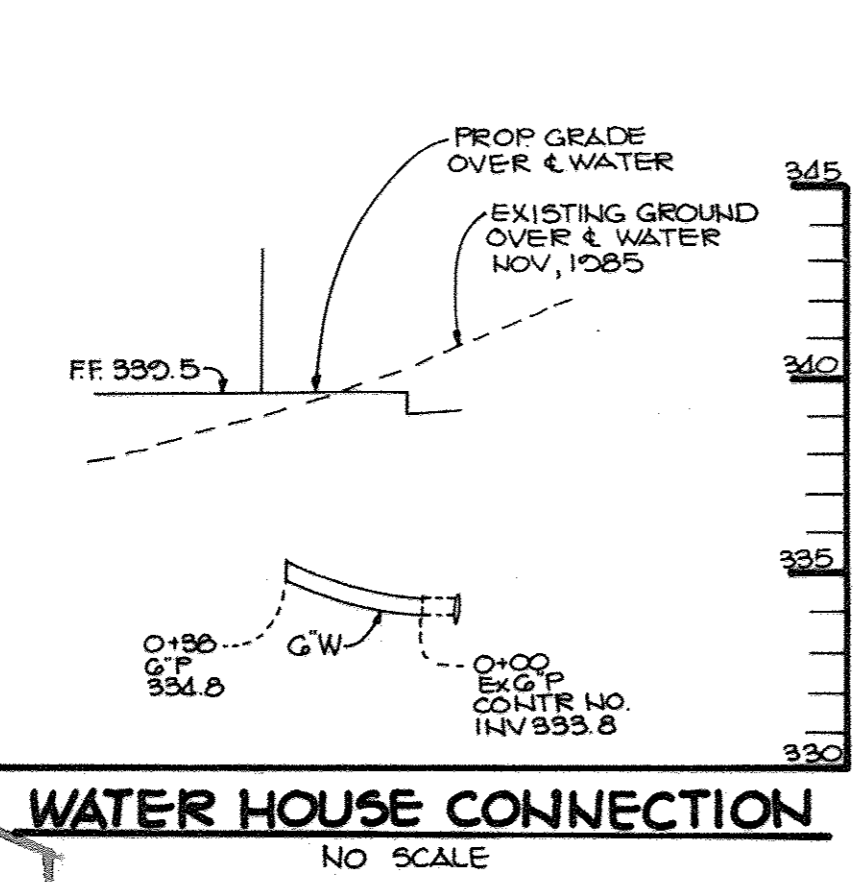
I hereby certify that these documents were prepared, or approved, by me, and that I am a duly licensed Professional Engineer under the Laws of the State of Maryland. License No. 26569 Exp. Date 7-18-19

*Arthur E. Muegge*

PROF. ENGR. 26569

There is no "As-Built" information provided on this sheet.

I 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. 26569 Exp. Date 7-18-19



PROFESSIONAL CERTIFICATION

I 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. 26569 EXPIRATION DATE 7-18-19

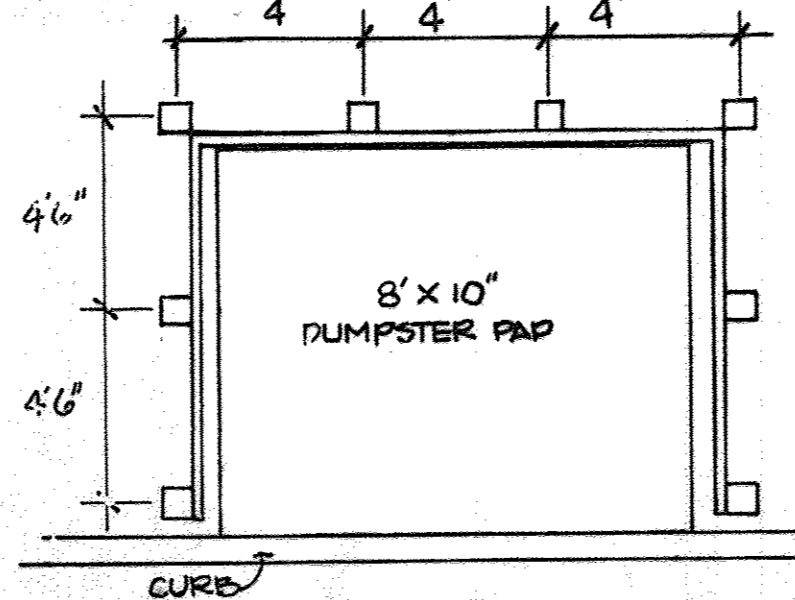
DUMPSTER PAD DETAIL  
NO SCALE

FOR REVISION ONLY

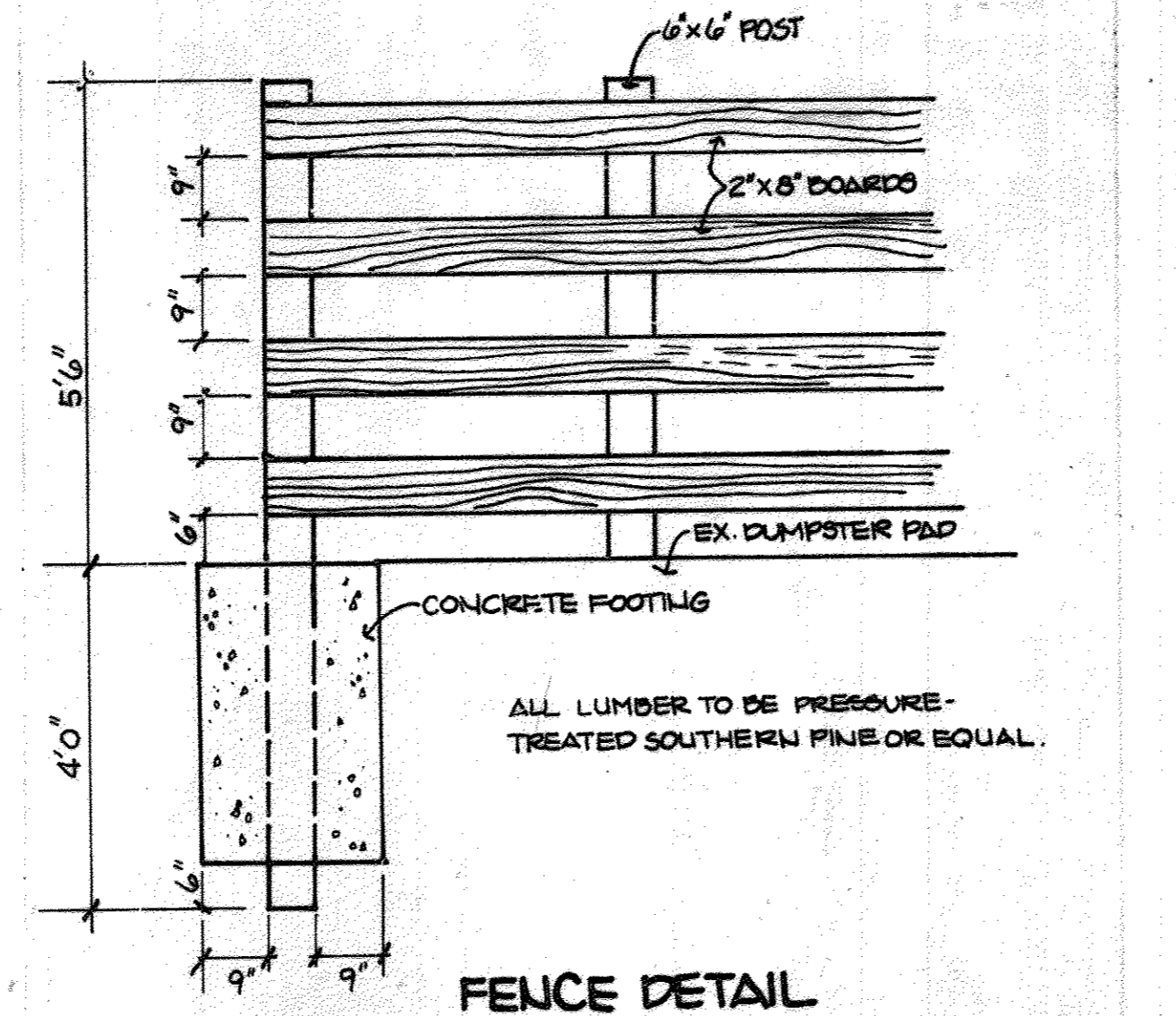
2-14-17 DATE

*Arthur E. Muegge*

PROFESSIONAL ENGINEER



POST LOCATION PLAN  
SCALE: 1/4" = 1'-0"



FOR REVISION ONLY

2-14-17 DATE

*Arthur E. Muegge*

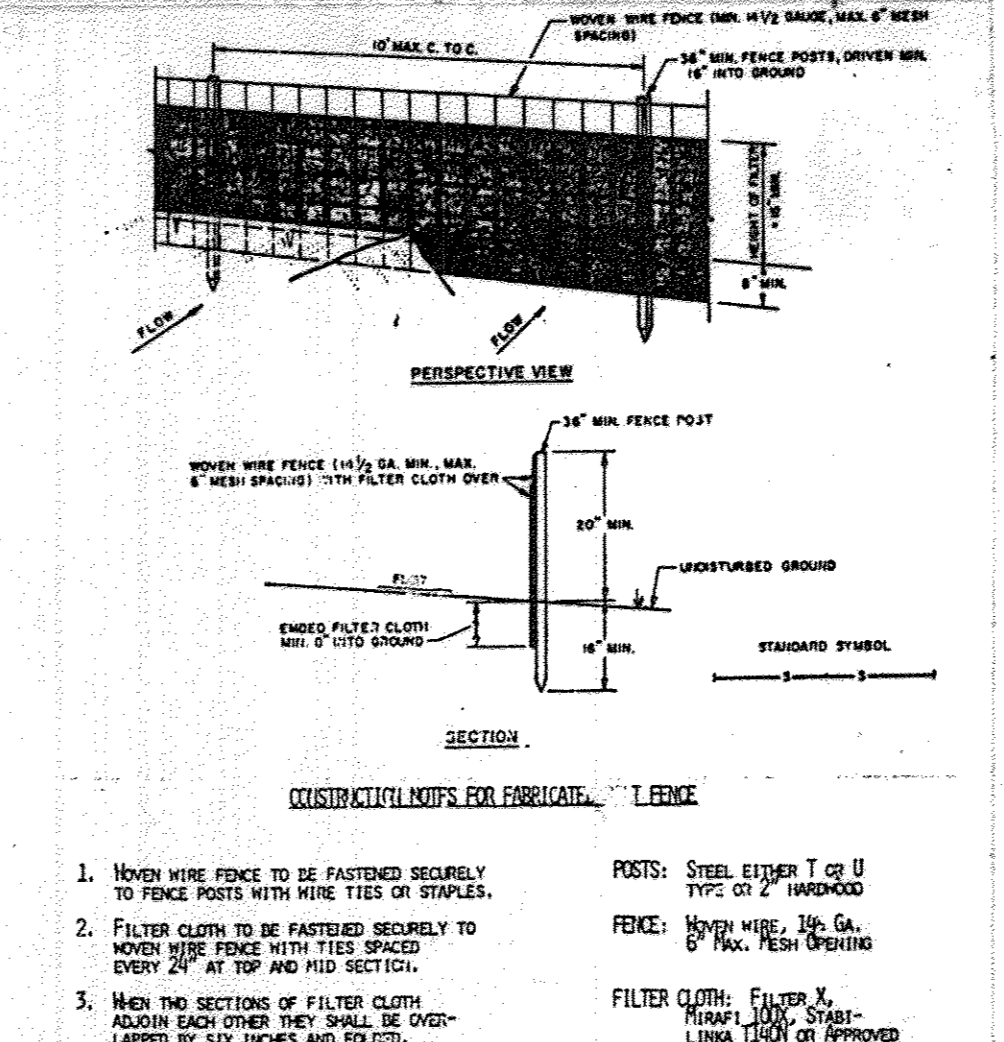
PROFESSIONAL ENGINEER

CONSTRUCTION SPECIFICATIONS FOR STONE FILTER INLET PROTECTION

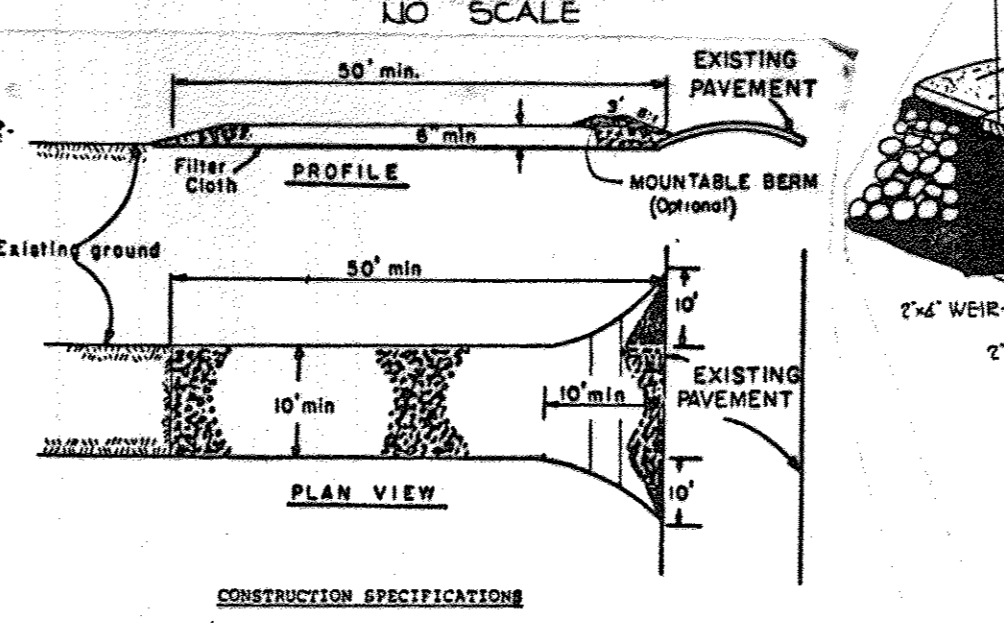
- I. Materials
- Wooden frame is to be constructed of 2" x 4" construction grade lumber.
  - Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
  - Filter cloth must be of a type approved for this purpose, resistant to sunlight with a pore size, 80, 40-85, to allow sufficient passage of water and removal of sediment.
  - Stone is to be 2" in size and clean, since fines would clog the cloth.
- II. Procedure
- A swale, ditchline or yard inlet protection.
  - Excavate completely around inlet to a depth of 18" below notch elevation.
  - Drive 2 x 4 post 1" into ground at four corners of inlet. Place wall string between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
  - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
  - Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
  - Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
  - If the inlet is not in a low point, construct a compacted curb into the ditchline below (i.e. the top of this curb is to be at least 6" higher than the top of frame (weir)).
  - This structure must be inspected frequently and the filter fabric replaced when clogged.
- B. Curb Inlet Protection.
- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
  - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
  - Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
  - Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
  - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
  - Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
  - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
  - Assure that storm flow does not bypass inlet by installing temporary curb or asphalt dikes directing flow into inlet.

SEDIMENT 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 (592-2437).
  - 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 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, Storm Drainage.
  - 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. 31) sod (Sec. 34), temporary seeding (Sec. 30) and mulching (Sec. 32). Temporary stabilization with mulch alone can only be done when recommended seedings 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: 63 acres
    - Area Disturbed: 45 acres
    - Area to be roofed or paved: 26 acres
    - Area to be vegetatively stabilized: 37 acres
    - Total Cut: 6000 Cu. yds.
    - Total Fill: 5000 Cu. yds.
    - Soil Type: Manno
  - 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 controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
  - Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
  - Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.
- PERMANENT SEEDING NOTES
- Apply to graded or cleared areas 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, dicing or other acceptable means before seeding.
- Soil Amendment: Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre. Narrow or disc line and 0-20-20 fertilizer into the soil to a minimum depth of 3". Lawns or high maintenance areas will be dragged and leveled with a York rake. At the time of seeding, apply 400 lbs. of 20-0-0 ureiform fertilizer and 500 lbs. of 10-20-20 or equivalent fertilizer per acre.
- Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 40 lbs. per acre (1 lb./1000 sq-ft.) of a mixture of certified 'Merion' Kentucky bluegrass; common Kentucky bluegrass @ 40 lbs. per acre (1 lb./1000 sq-ft.) and Red Fescue, Fenelon or Jamestown @ 20 lbs. per acre (0.5 lb./1000 sq-ft.) for the period May 1 thru July 31, seed with 40-60-20 mix as specified above and 2 lbs. per acre (0.05 lb./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 40-60-20 mix specified above 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 grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (3 gal./1000 sq-ft.) of unrotted 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 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.
- Seedbed Preparation: Loosen upper three inches of soil by raking, dicing or other acceptable means before seeding.
- Soil Amendment: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lb./1000 sq-ft.). Where soil is slightly acidic, apply domestic limestone at the rate of 1 ton per acre.
- Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs. per acre of annual ryegrass (3.2 lbs./1000 sq-ft.). For the period May 1 thru August 16, seed with 3 lbs. per acre of weeping lovegrass (0.7 lb./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 small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (3 gal./1000 sq-ft.) of unrotted asphalt on flat areas. On slopes 8 feet 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.

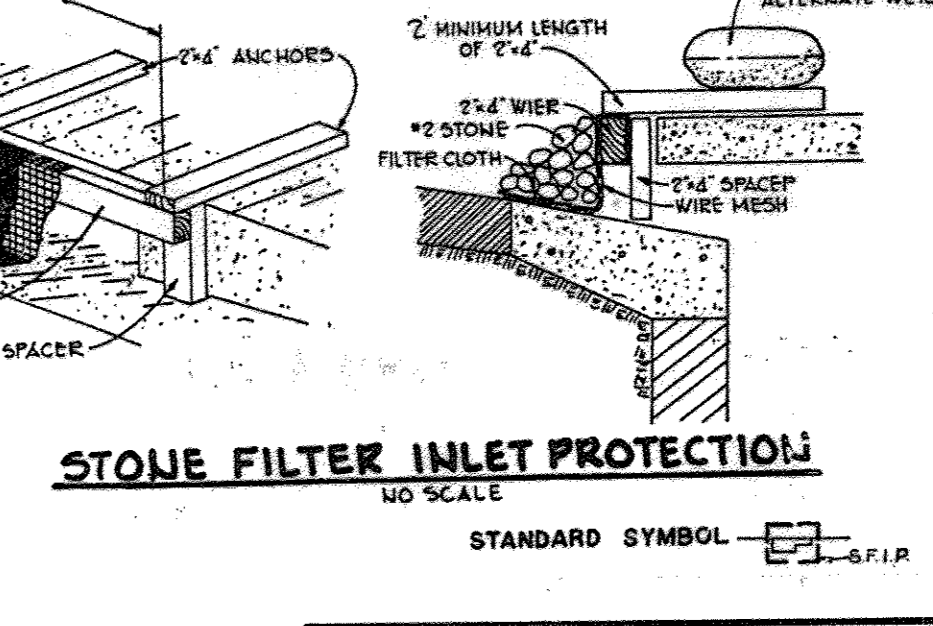


SILT FENCE

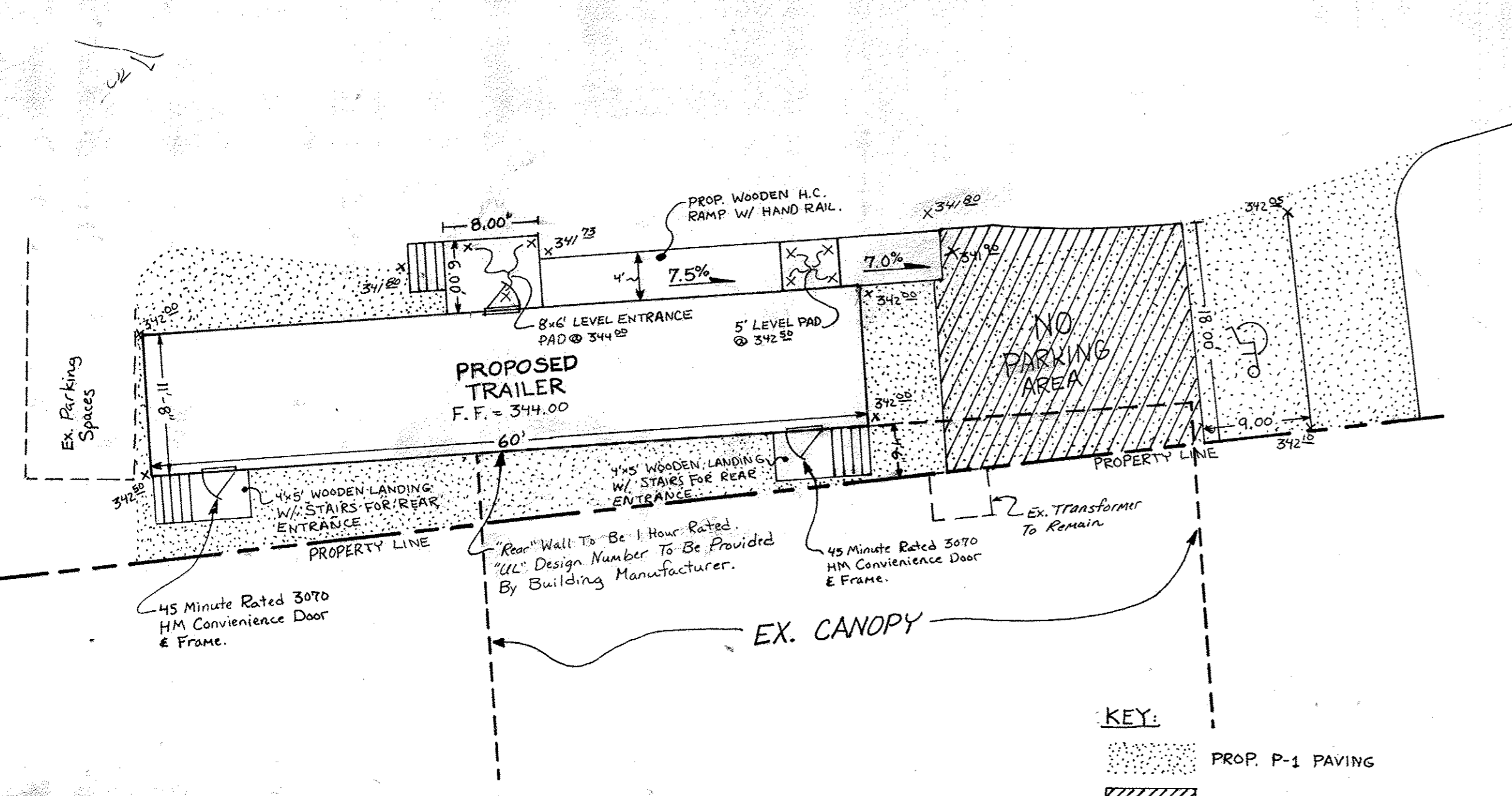
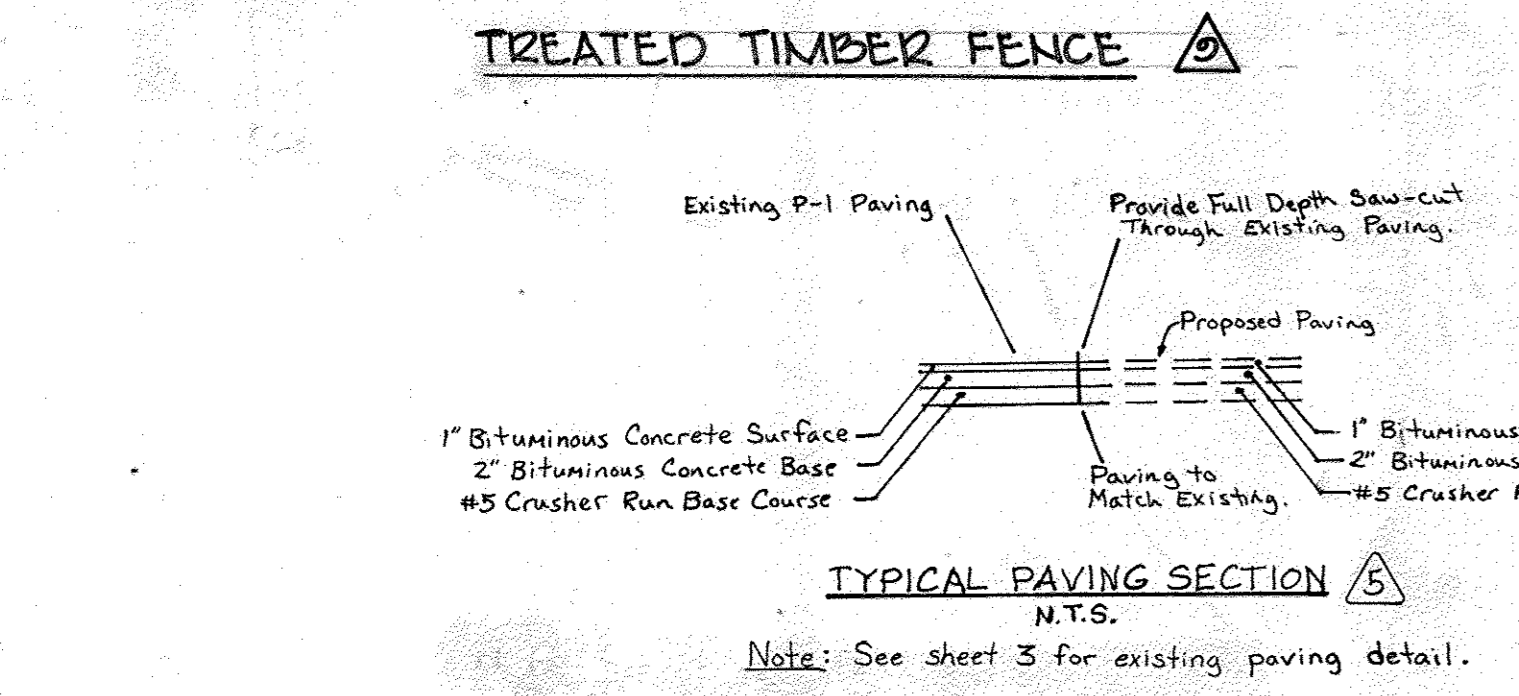
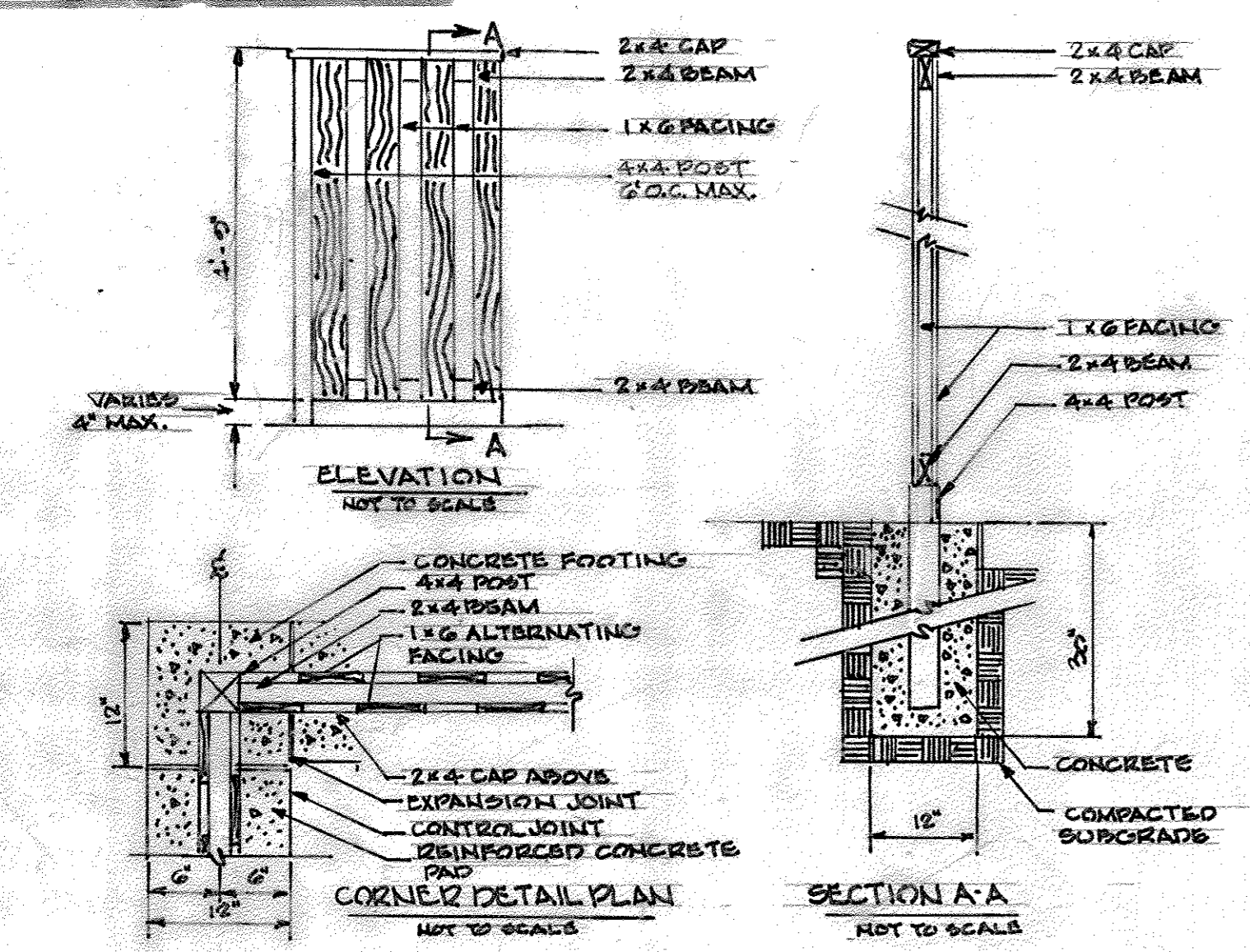


- CONSTRUCTION SPECIFICATIONS
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a simple residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a simple 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 on public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of a measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Mulching - Mulch 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 and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

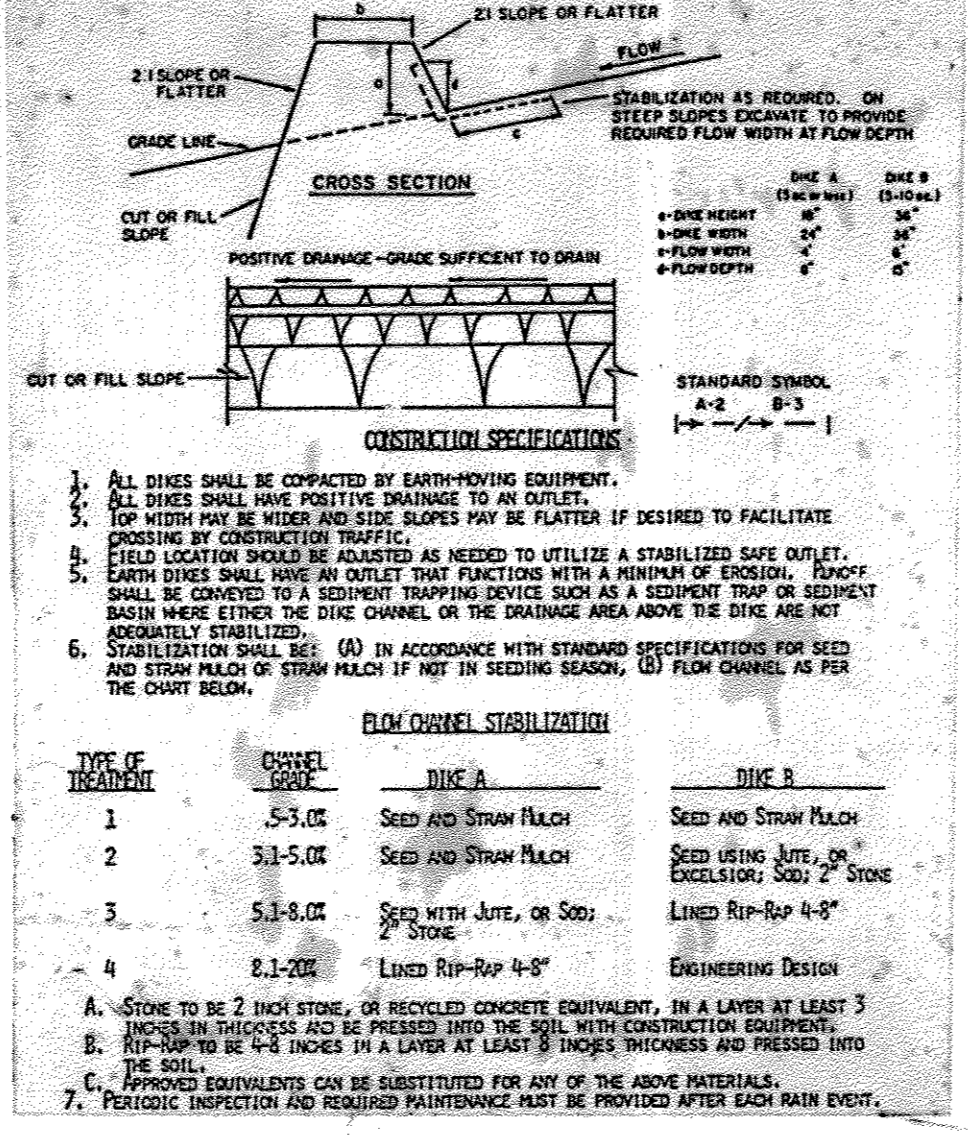
STONE FILTER INLET PROTECTION



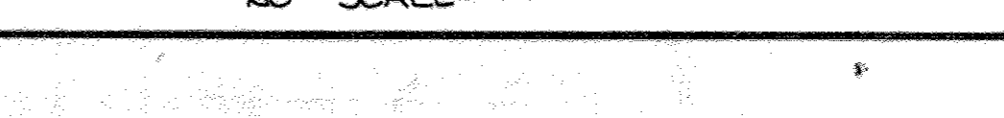
- CONSTRUCTION SPECIFICATIONS
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
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EARTH DIKE



STABILIZED CONSTRUCTION ENTRANCE



02-01-17 ACURA WEST LAND SCAPING & BLDG. FOOTPRINT

BY THE DEVELOPER:

"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."

*David M. Maizlish* DEVELOPER DATE: 2-23-18

BY THE ENGINEER:

"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."

*Arthur E. Muegge* ENGINEER DATE: 7-25-86

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS

*James M. Helms* DATE: 8/14/16

U.S. SOIL CONSERVATION SERVICE

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

*Nancy S. Goff* HOWARD S.O.D. DATE: 8-14-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

*Joyce M. Zylus* COUNTY HEALTH OFFICER DATE: 8-20-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*Arthur E. Muegge* PLANNING DIRECTOR DATE: 8-21-86

*Arthur E. Muegge* CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 8-21-86

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

*George F. Nemy* HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DATE: 8-17-86

*Robert E. Ryan* CHIEF, BUREAU OF ENGINEERING DATE: 8-18-86

10-28-86 1 REVISE CUT AND FILL QUANTITIES

3-17-03 1 ADD SALES TRAILER

OWNER/DEVELOPER

JERRY MAIZLISH  
1623 GLENCOE ROAD  
SPARKS, MARYLAND

PROJECT:

ACURA  
AUTOMOBILE DEALERSHIP

AREA LANCELOTTA PROPERTY PLAT NO. GG56  
PARCEL B-1 TAX MAPS 17, 18, 24:25  
2ND ELECTION DISTRICT, HOWARD COUNTY, MD.

SEDIMENT CONTROL DETAILS

THE RIEMER GROUP, INC.

The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3108 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2890

7-25-86 DATE

AS-BUILT

DESIGNED BY: D.A.M.

DRAWN BY: F.D.M.

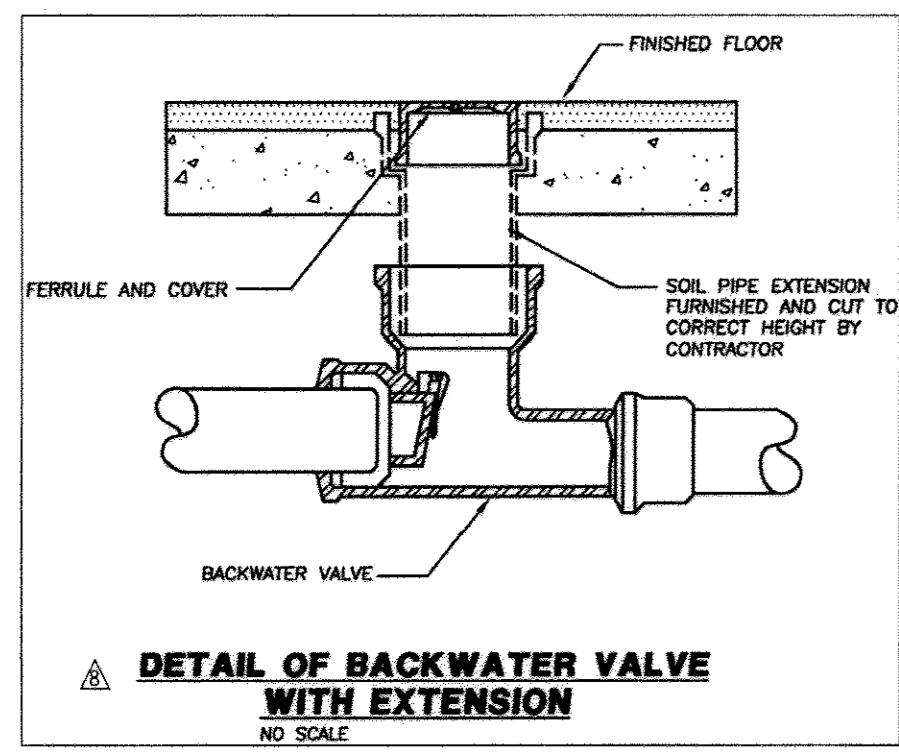
PROJECT NO: 23700

DATE: 2-28-86

SCALE: AS SHOWN

DRAWING NO. 7 OF 12

SDP-86-182



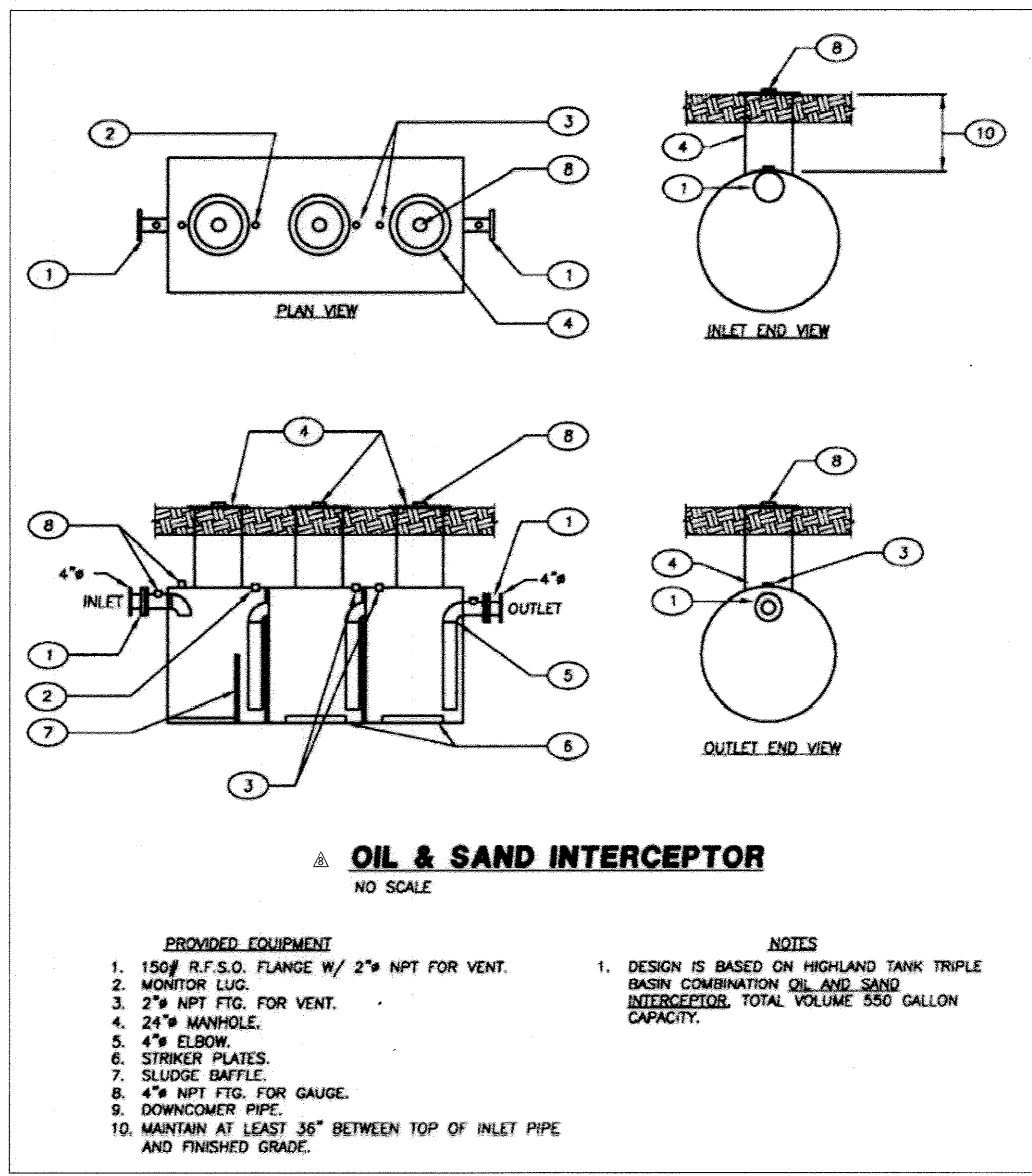
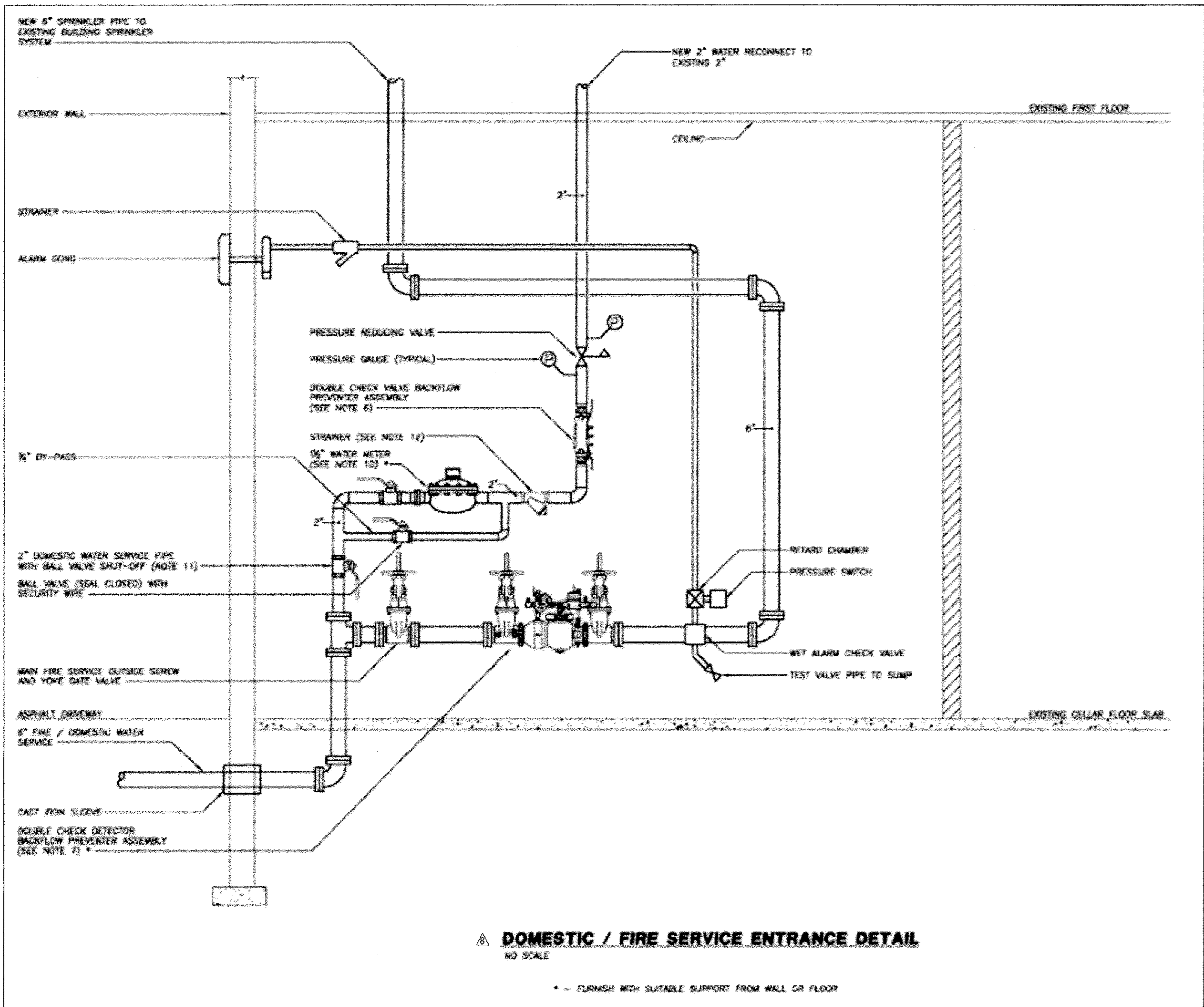
- INSIDE APPURTENANCES SETTING**  
**NOTES DOMESTIC AND FIRE**
- OWNER TO DISARM AND REARM FIRE ALARM SYSTEM DURING TESTING AND MAINTENANCE.
  - ORDER AND INSTALL BACKFLOW PREVENTERS AS PER HOWARD COUNTY STANDARDS.
  - ALL FITTINGS AND NIPPLES TO BE "LEAD FREE" THREADED BRASS WITH APPROPRIATE ADAPTERS.
  - PERMANENT BRICK, CONCRETE SUPPORTS STATIONS AND/OR WELDED, CANTILEVERED WALL BRACKETS TO BE PLACED UNDER FLANGE FITTINGS.
  - BACKFLOW PREVENTERS TO BE TESTED PRIOR TO OPERATIONAL ACCEPTANCE.
  - 2" DOUBLE CHECK VALVE ASSEMBLY (ASME LISTED 1015) ON DOMESTIC WATER SHALL BE "LEAD FREE" "ZURN" MODEL NO. '300S' WITH FULL PORT OR BALL VALVES.
  - 6" FIRELINE DOUBLE CHECK DETECTOR ASSEMBLY (ASME LISTED 1040) WITH METRIC 67-PASS SHALL BE "LEAD FREE" "ZURN" MODEL NO. '350 ADAM' SERIES. INSTALL WITH STAINLESS STEEL BOLTS AND BRASS NUTS. METER FURNISHED BY HOWARD COUNTY. 6" PIPE AND FITTINGS SHALL BE DUCTILE IRON WITH FLANGED CONNECTIONS WITH STAINLESS STEEL BOLTS AND BRASS NUTS.
  - 6" GATE VALVES SHALL BE APPROVED OS&Y TYPE RESILIENT SEAT. PROVIDE LENGTH OF CHAIN FOR EACH VALVE TO ALLOW HOWARD COUNTY TO LOCK VALVE IN DESIRED POSITION.
  - 2" PIPE SHALL BE "LEAD FREE" THREADED BRASS.
  - WATER METER SHALL BE EQUIVALENT TO "HERSEY" MODEL NO. '072" MAGNETIC TYPE POSITIVE DISPLACEMENT DISC TYPE.
  - BALL VALVES SHALL BE 2" FULL PORT BRONZE CONSTRUCTION EQUIVALENT TO "ZURN WILKINS" MODEL NO. '850 XL' (LEAD FREE).
  - STRAINER SHALL BE "Y" TYPE "ZURN" MODEL NO. 'SKL' (LEAD FREE).

There is no "As-Built" information provided on this sheet.

2-2-18

PROF. ENGR. 26569

I 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. 26569  
Exp. Date 7-18-19



**PURPOSE STATEMENT: REDLINE REVISION #8**

THE PURPOSE OF THIS REDLINE REVISION IS TO BRING THE EXISTING BUILDING TO CURRENT ACURA SHOWCASE STANDARDS. THE NEW ACURA STANDARDS MANDATE NEW CUSTOMER SERVICE REQUIREMENTS. THE FOLLOWING IMPROVEMENTS PERTAIN TO SERVICE CUSTOMER INTAKE PROCEDURES AND PROTOCOLS. THE BUILDING UPGRADE WILL INCLUDE THE ADDITION OF A NEW ENCLOSED SERVICE PARKING AREA, A CAR WASH AREA AND ASSOCIATED SPACE. EXISTING DEALERSHIP CANOPIES WILL BE ENCLOSED FOR THESE PROPOSED IMPROVEMENTS.

<b>AS-BUILT</b>	
07-23-15	ACURA WEST DEALERSHIP SERVICE AREA EXPANSION
DATE	NO. REVISION DESCRIPTION
<b>NORRIS ACURA WEST</b>	
8559 BALTIMORE NATIONAL PIKE ELLCOTT CITY, MD 21043 HOWARD COUNTY, MARYLAND	
<b>OWNER / DEVELOPER</b>	
NORRIS AUTO GROUP 925 MERRITT BOULEVARD BALTIMORE, MD 21222 CONTACT: DAVID NORRIS COOK	
501 FAIRMOUNT AVENUE SUITE 300 TOWSON, MD 21286 P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM	

<b>TITLE</b>					
<b>SITE DETAILS</b>					
SUBDIVISION NAME		SECT./AREA	LOT/PARCEL #		
LANCERETTA PROPERTY		25	199		
PLAT# OR L/F	BLOCK#	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
6656	1	B-2	25	2	602900
WATER CODE			SEWER CODE		
ADDRESS CHART					
LOT NUMBER		STREET ADDRESS			
81		8559 BALTIMORE NATIONAL PIKE			
DES. BY	ERS	SCALE:	AS SHOWN	PROJ. NO. 15028	
DRN. BY	GMO	DATE:	1/20/16		
CHKD. BY	APPROVED	8 OF 12			

**PROFESSIONAL CERTIFICATION**  
I 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. 26569. EXPIRATION DATE: 7-18-17.

**APPROVED: DEPARTMENT OF PLANNING AND ZONING**

*[Signature]* 2-26-16  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 3-01-16  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 3-2-16  
DIRECTOR DATE

FOR REVISION ONLY

1-20-16

DATE

PROFESSIONAL ENGR. NO. 26569

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

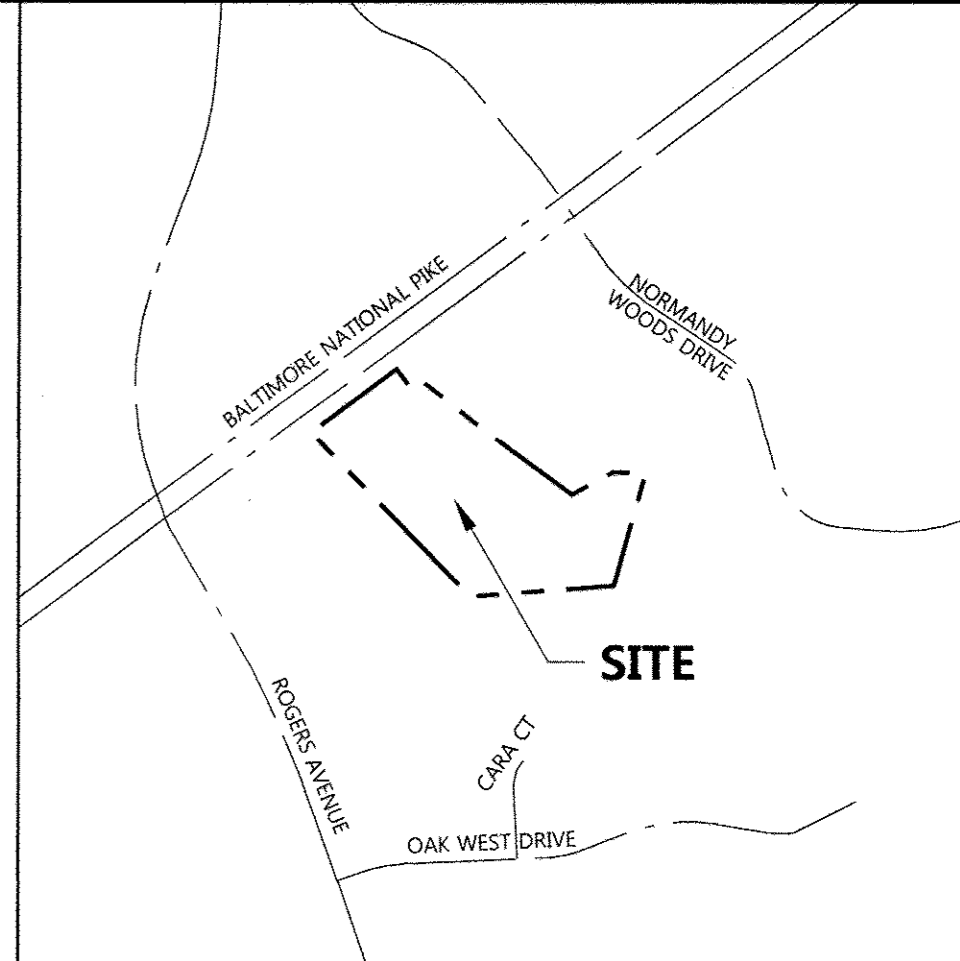
HOWARD SCD *[Signature]* DATE



SYMBOL	KEY	QTY	BOTANICAL/COMMON NAME	PLANT SIZE	ROOT	REMARKS
SHADE TREE						
○	BN	3	BETULA NIGRA 'HERITAGE' / HERITAGE RIVER BIRCH	8-10' HT.	B&B	
EVERGREEN CONIFER TREE						
☼	MG	3	METASEQUOIA GLYPTO STROBILIDES / DAWN REDWOOD	8' HT.	B&B	
SMALL DECIDUOUS TREES						
⊕	CF	5	CARPINUS BETULUS 'FASTIGIATA' / HORNBEAM	2 1/2" CAL.	B&B	6' CLR TO 1ST LATERAL BRANCH
○	LN	13	LAGERSTROEMIA 'NATCHEZ' / NATCHEZ CRAPE MYRTLE	8-10' HT.	B&B	
SHRUBS						
○	RN	10	ROSA 'XNOARE' / RED CARPET ROSE	12" HT	3 GAL.	INSTALL 3"-0" ON-CENTER, FIELD LOCATED AROUND BASE OF TWO EX SIGNS
GROUND COVER						
▨	LV	400	LIRIOPE VARIEGATA / VARIEGATED LIRIOPE	6" HT.	1 GAL.	INSTALL 18" ON-CENTER, 3 ROWS STAGGERED

SCHEDULE 'B' PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PROPOSED PARKING SPACES	79
NUMBER OF TREES REQUIRED (1/20 SPACES)	4
NUMBER OF TREES PROVIDED	0
SHADE TREES	0
OTHER TREES (2:1 SUBSTITUTION)	0
CREDIT	11 EX. TREES TO REMAIN

CATEGORY	SCHEDULE 'A' - PERIMETER LANDSCAPE EDGE											TOTALS
	ADJACENT TO PERIMETER AND ROADWAYS											
PERIMETER/FRONTAGE DESIGNATION	1	1	1	2	2	2	3	4	5	5	5	
LANDSCAPE TYPE	E	B	D	A	D	C	A	A	A	A	A	
LINEAR FEET ROADWAY FRONTAGE/PERIMETER	170 PKG	35 NRFS	30 LDG	307 NRAOU	36 LDG	282 NRRES	170 NRAOU	303 NRAOU	423 NRAOU	108 NRAOU	110 NRAOU	340 NRAOU
CREDIT FOR EXISTING VEGETATION (YES, NO, LF)	NO	YES 2 EX. EV. TREES TO REMAIN	NO	YES EX. WOODS TO REMAIN	YES EX. WOODS TO REMAIN	YES EX. WOODS TO REMAIN	YES EX. WOODS TO REMAIN	YES EX. WOODS TO REMAIN	YES EX. WOODS TO REMAIN	YES EX. WOODS TO REMAIN	NO	NO
CREDIT FOR WALL, FENCE OR BERM	NO	YES	YES 36LF PROP. FENCE	NO	YES 36LF PROP. FENCE	NO	NO	NO	NO	NO	NO	YES 343LF EX FENCE
NUMBER OF PLANTS REQUIRED												
SHADE TREE REQUIREMENT	1:40	1:40	1:60	1:60	1:60	1:40	1:60	1:60	1:60	1:60	1:60	
SHADE TREES REQUIRED	4.25	0.70										6.78
EVERGREEN TREE REQUIREMENT		1:40	1:10		1:10	1:20						
EVERGREEN TREES REQUIRED												
SHRUB REQUIREMENT	1:4											
SHRUBS REQUIRED	42.50											42.50
NUMBER OF PLANTS PROVIDED												
SHADE TREES												3.00
SMALL DEC. TREES (12 MULTI-STEM, 5 @ 2-1/2" CAL.)												18.00
EVERGREEN TREES (CONIFERS)												3.00
SHRUBS	10											10.00
GROUND COVER												250.00
OTHER TREES (2:1 SUBSTITUTION)	2 EX. EV. TREES TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	EX. WOODS TO REMAIN	
SHRUBS (10:1 SUBSTITUTION)												



VICINITY MAP  
SCALE: 1" = 1'

LEGEND

- SUBJECT PROPERTY LINE
- ADJACENT PROPERTY LINE
- EX. CONTOURS
- EX. BUILDING
- EX. CURB
- EX. TREELINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. FENCE LINE
- PROP. BUILDING
- PROP. CURB
- PROP. SEWER
- PROP. WATER
- PROP. STORM DRAIN
- LIMIT OF DISTURBANCE

GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. THE REQUIRED PARKING AND PERIMETER LANDSCAPING WILL BE BONDED PER THIS SUBMISSION.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$22,170.00 FOR THE REQUIRED 18 SHADE TREES AND 57 EVERGREEN TREES.
- \*SEE LANDSCAPE SCHEDULE FOR ADJUSTMENTS

LANDSCAPE SCHEDULE NOTE:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AAS SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH THE HRD PLANTING SPECIFICATIONS.
  - CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
  - FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
  - CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.
- PURPOSE STATEMENT: REDLINE REVISION #9**  
THE PURPOSE OF THIS REDLINE REVISION IS TO ADDRESS THE CURRENT BUILDING FOOTPRINT FIELD CHANGE, AND MODIFY THE APPROVED LANDSCAPE PLAN BASED ON CURRENT HOWARD COUNTY LANDSCAPE REGULATIONS. THE BUILDING UPGRADES MATCH THE PREVIOUS APPROVED PLAN, WITHOUT THE ADDITION OF TWO OFFICE EXPANSION AREAS.

DATE	NO.	REVISION DESCRIPTION
02-01-17	1	ACURA WEST LANDSCAPING AND BUILDING FOOTPRINT
07-23-15	2	ACURA WEST DEALERSHIP SERVICE AREA EXPANSION

**AAS-BUILT**  
FOR REVISION ONLY  
DATE: 2-14-17  
REGISTERED LANDSCAPE ARCHITECT

PROFESSIONAL CERTIFICATION  
I 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. 8061, EXPIRATION DATE: 8-26-17.  
FOR REVISION ONLY  
DATE: 2-14-17  
PROFESSIONAL ENGR. NO. 8061

**NORRIS ACURA WEST**  
8559 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MD 21043  
HOWARD COUNTY, MARYLAND  
**OWNER / DEVELOPER**  
NORRIS AUTO GROUP  
925 MERRITT BOULEVARD  
BALTIMORE, MD 21222  
CONTACT: DAVID NORRIS COOK

**DW**  
DAFT MCCUNE WALKER INC.

501 FAIRMOUNT AVENUE, SUITE 300 TOWSON, MD 21286  
P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM

TITLE			
<b>PLANTING PLAN</b>			
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #	
6656	B-2	25	602900
WATER CODE	SEWER CODE		
ADDRESS CHART			
LOT NUMBER	STREET ADDRESS		
	8559 BALTIMORE NATIONAL PIKE		
DES. BY ERS	SCALE: 1"=40'	PROJ. NO. 15028	
DRN. BY GMO	DATE: 5/31/17		
CHK'D. BY	APPROVED	9 OF 12	

KEY	QTY	FENCE TYPE	FENCE HGT.
WF	72 LF	TREATED TIMBER FENCE - VERTICAL BOARD-ON-BOARD	6' HGT.

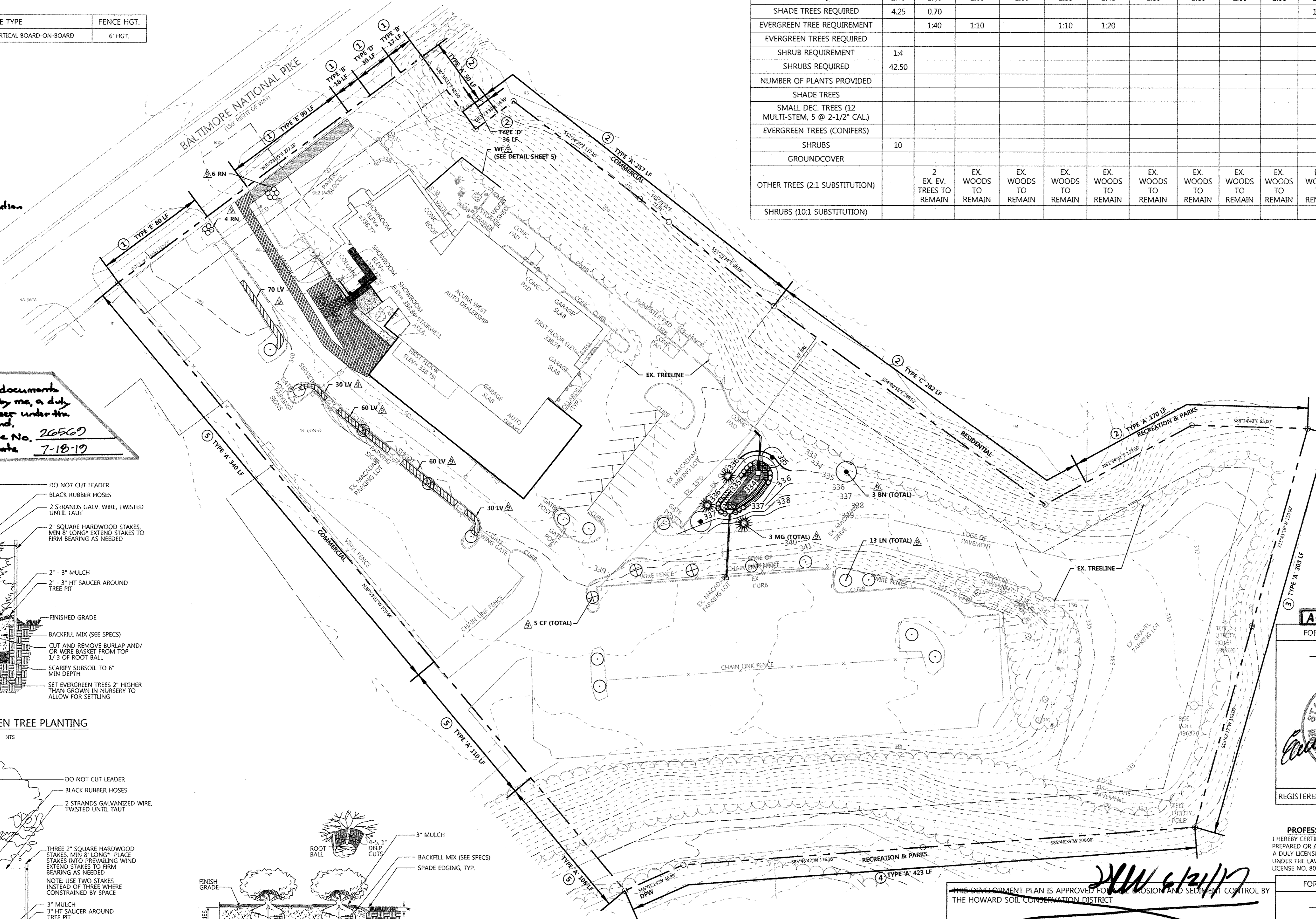
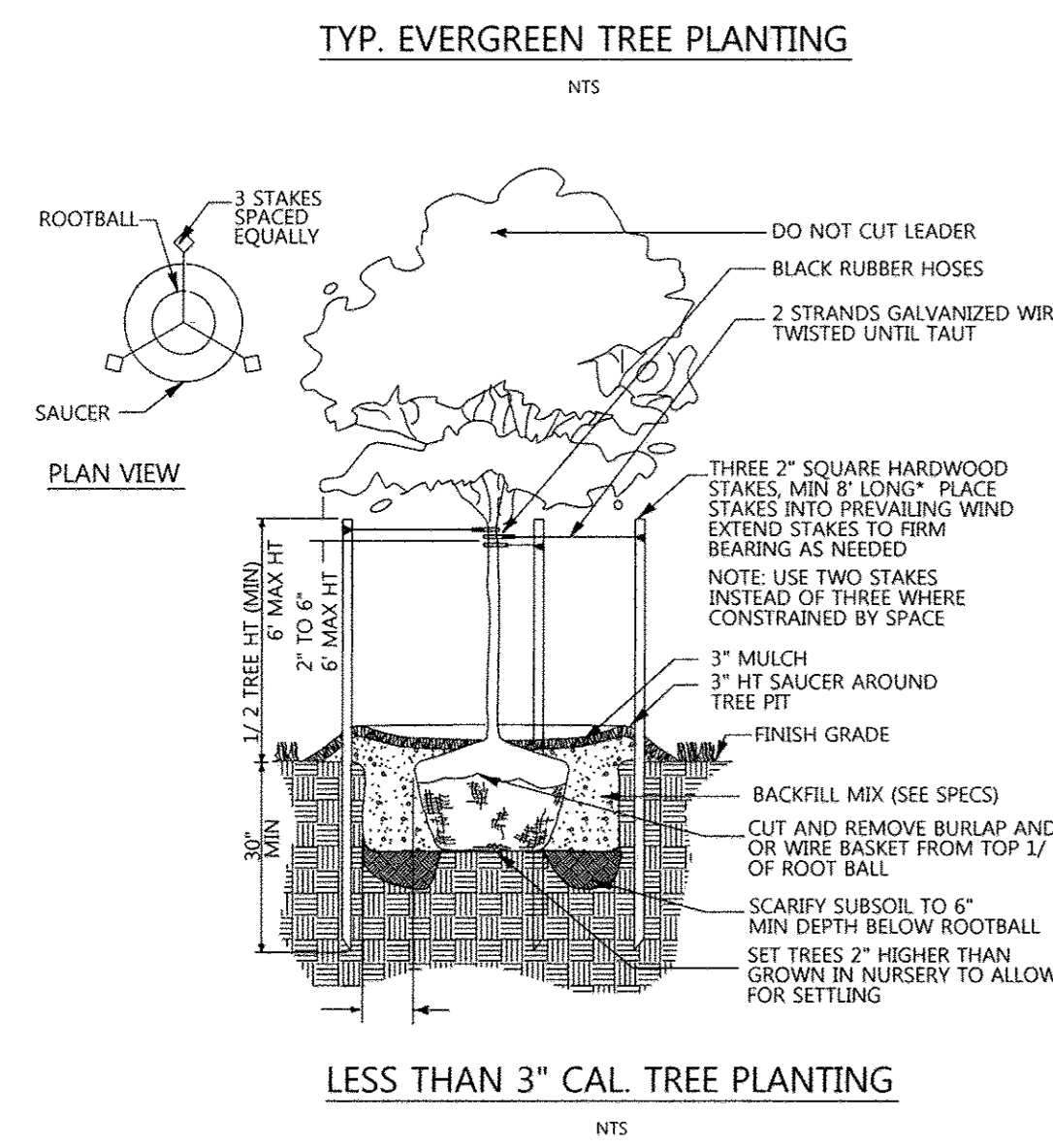
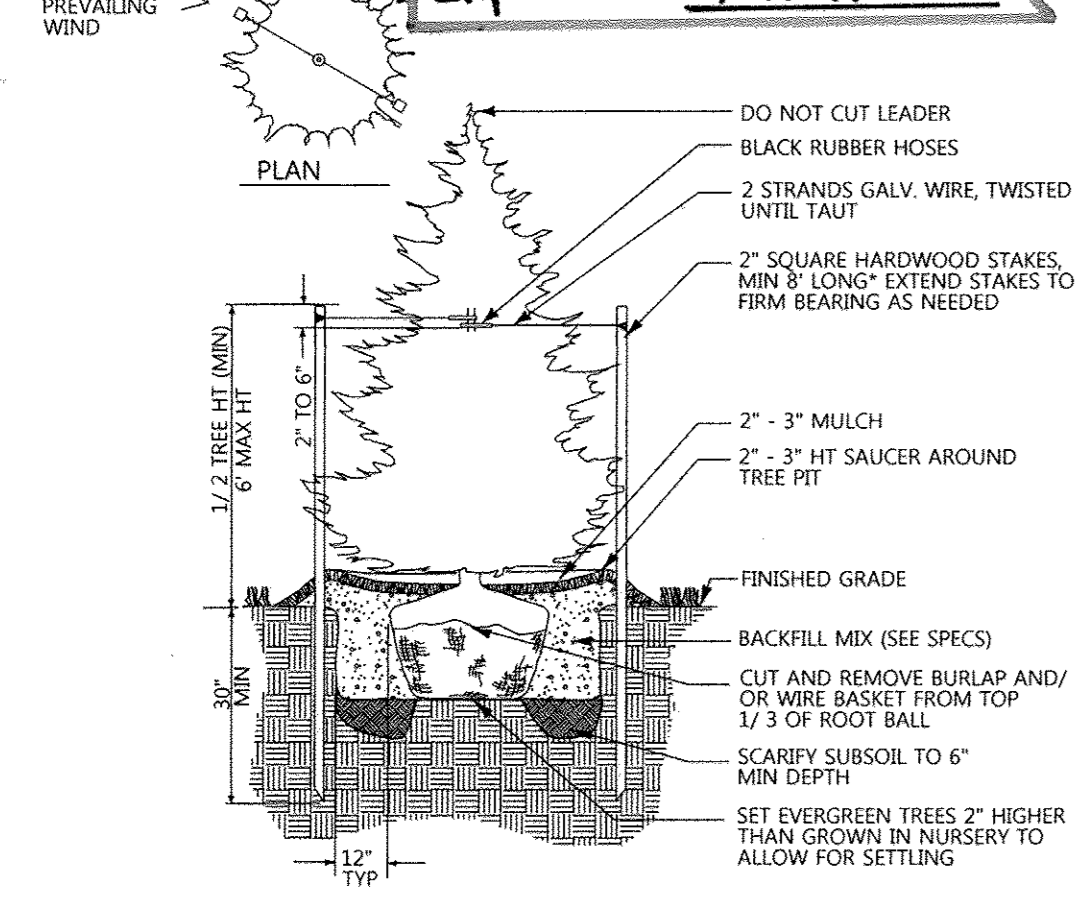
There is no "AS-BUILT" information provided on this sheet.  
2-2-18

MATTHEW C. ZANE  
PROFESSIONAL LAND SURVEYOR  
LIC.# 21739 (EXP. 12-12-19)  
DATE: 01-05-18

There is no "AS-BUILT" information provided on this sheet.  
2-2-18

STATE OF MARYLAND  
BRUCE DOUGLAS  
PROFESSIONAL ENGINEER  
No. 26569

PROF. ENGR. 26569  
I hereby certify that these documents were prepared or approved by me, a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 26569  
Exp. Date 7-18-19



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 6-23-17

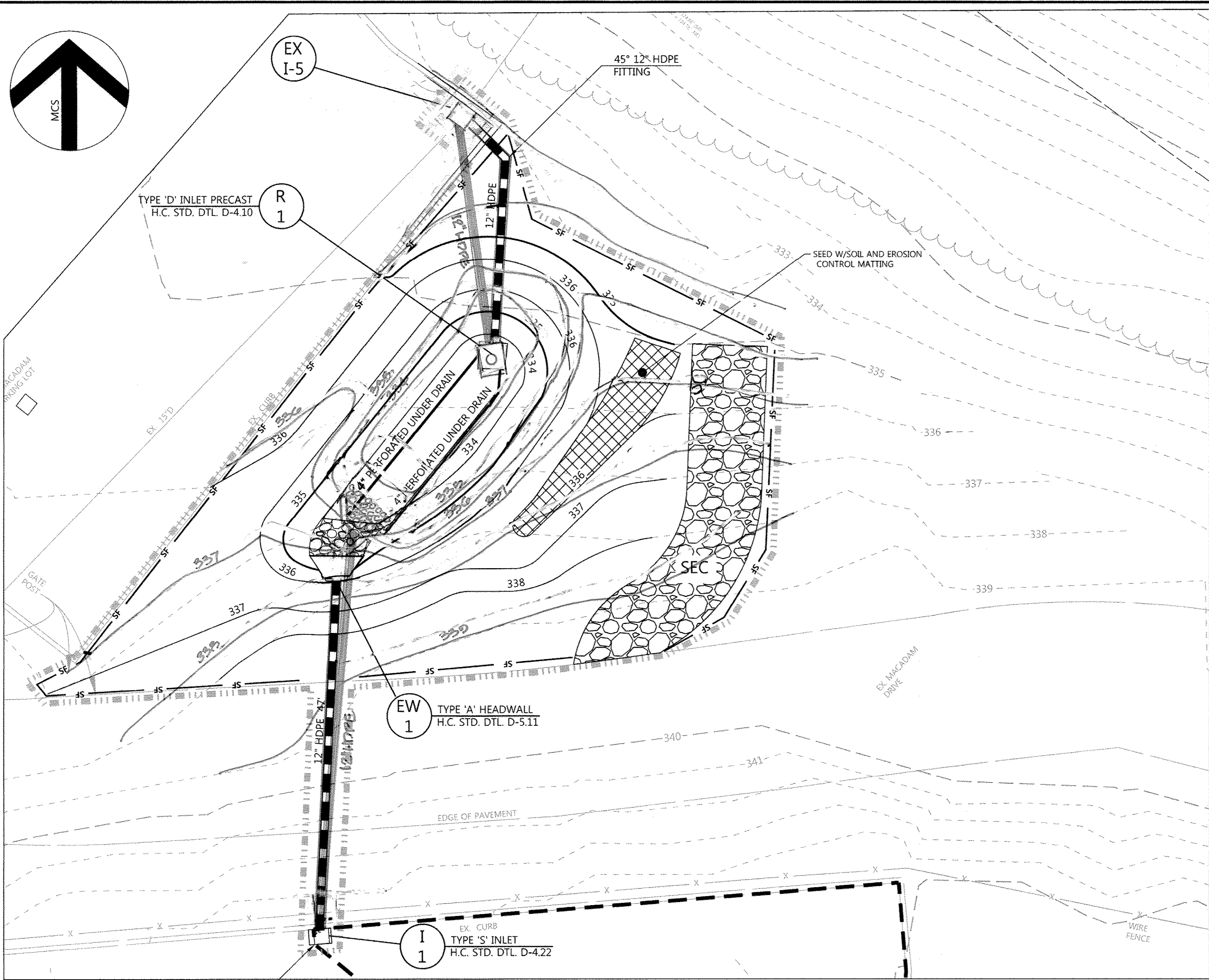
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE: 6-30-17

DIRECTOR  
DATE: 7-6-17

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
DATE: 6/14/17

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.  
DATE: 6/14/17

AUGUST 2015 (REVISED) 15028-02-BL REVISIONS REV. PROCESS, SUPPORTING - WED, MAY 11, 2017



**MICRO-BIORETENTION PLAN**  
SCALE: 1"=10'

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE APPENDIX A, TABLE A.4	N/A	PLANTINGS ARE SITE-SPECIFIC
PLANTING SOIL (2' TO 4" DEEP)	LOAMY SAND (60 - 65%) & COMPOST (35 - 40%) OR SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)	N/A	
ORGANIC CONTENT	MIN. 10% BY DRY WEIGHT (ASTM D 2974)		
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM; NO PINE OR WOOD CHIPS
PEA GRAVEL DIAPHRAGM	PEA GRAVEL: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
CURTAIN DRAIN	ORNAMENTAL STONE: WASHED COBBLES	STONE: 2" TO 5"	
GEOTEXTILE		N/A	PE TYPE 1 NONWOVEN
GRAVEL (UNDERDRAINS AND INFILTRATION BERMS)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" TO 3/4")	
UNDERDRAIN PIPING	758, TYPE PS 28 OR AASHTO M-278	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	SLOTTED OR PERFORATED PIPE: 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4-INCH GALVANIZED HARDWARE CLOTH
POURED IN PLACE CONCRETE (IF REQUIRED)	MSHA MIX NO. 3; F <sub>c</sub> = 3500 PSI @ 28 DAYS, NORMAL WEIGHT, AIR-ENTRAINED, REINFORCED TO MEET ASTM-615-60	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND - DESIGN TO INCLUDE MEETING ACI CODE 350R/89; VERTICAL LOADING (H-10 OR H-20); ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING
SAND	AASHTO-M-6 OR ASTM-C-33	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.

**OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6) AND BIORETENTION SWALE (M-8)**

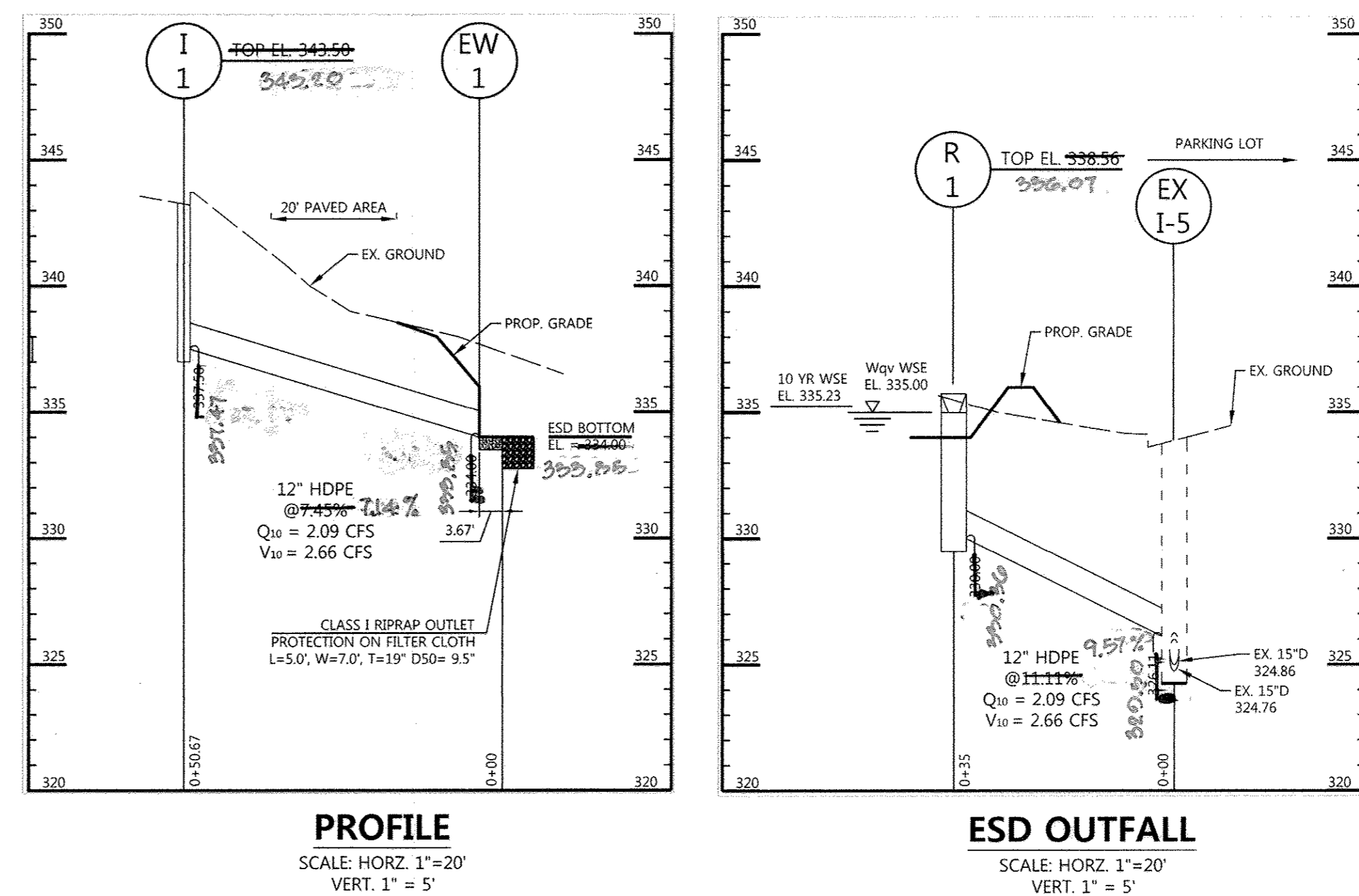
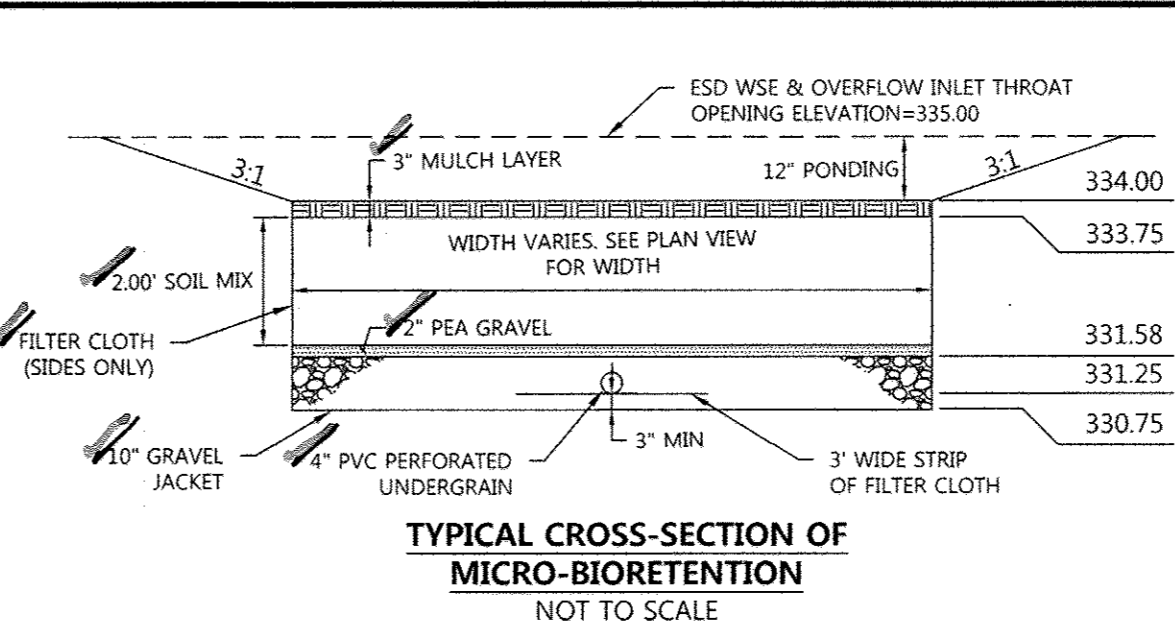
- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

**MAINTENANCE CRITERIA**

- PERIODICALLY REMOVE TRASH & DEBRIS AS IT ACCUMULATES.
- REMOVE AND REPLACE TOP FEW INCHES OF FILTER MEDIA WHEN WATER PONDS FOR MORE THAN 48 HRS.
- PRUNE AND REPLACE DEAD VEGETATION AS NECESSARY.
- WATER VEGETATION DURING DRY PERIODS

**DEVELOPERS CERTIFICATION:**  
"I HAVE CERTIFIED 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 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 HOWARD SOIL CONSERVATION DISTRICT."  
SIGNATURE OF DEVELOPER: \_\_\_\_\_ DATE: \_\_\_\_\_

**ENGINEER'S CERTIFICATION:**  
"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."  
SIGNATURE OF ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_



Professional Certification, I 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. 26569, Expiration Date: 7-18-19

I hereby certify that the facility shown on the plan was constructed as shown on the AS-BUILT Plans and complies with approved plans and specifications. I have verified that the contribution drainage area is sufficiently stabilized to prevent closing of the swm facility.

**SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT FOR THE PROSED WORK. NOTIFY THE HOWARD COUNTY DEPARTMENT OF PERMITS AND LICENSES (DILP) AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. (2 DAYS)
- INSTALL THE STABILIZED CONSTRUCTION ENTRANCE (SCE) AND PERIMETER CONTROLS. (5 DAYS)
- AN ONSITE STOCKPILE AREA, IF APPLICABLE, WILL BE LOCATED WITHIN THE LIMIT OF DISTURBANCE WITH THE COORDINATION AND DISCRETION OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR AND THE GENERAL CONTRACTOR. (1 DAY)
- WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, BEGIN STORM DRAIN INSTALLATION, AS WELL AS, ESD OVERFLOW INLET AND OUTFALL PIPE. TEMPORARILY BLOCK INLET I-1 AND R-1 UNTIL VEGETATIVE STABILIZATION HAS OCCURRED. (10 DAYS)
- EXCAVATE ESD FACILITY TO SUBGRADE AND FINE GRADE AREA WITHIN LIMIT OF DISTURBANCE. STABILIZE SITE WITH VEGETATION. STABILIZE DIVERSION SWALE WITH SEED AND EROSION CONTROL MATTING. (5 DAYS)
- ONCE SITE HAS BEEN STABILIZED WITH VEGETATION, BEGIN INSTALLATION OF ESD COMPONENTS. REFER TO MICRO-BIORETENTION SEQUENCE OF CONSTRUCTION FOR THIS INSTALLATION LOCATED ON THIS SHEET.
- WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL PRACTICES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS. (2 DAYS)
- ONCE DISTURBED AREAS HAVE COMPLETELY BEEN STABILIZED, REMOVE INLET BLOCKINGS AND MAKE THE FACILITY ACTIVE. (1 DAY)

2-2-18

STATE OF MARYLAND  
LAND SURVEYOR  
MATTHEW G. JANE  
PROFESSIONAL LAND SURVEYOR  
LIC# 21734 (EXP. 12-12-19)  
DATE: 01-05-18

I HEREBY CERTIFY THAT THERE IS AS-BUILT INFORMATION AS SHOWN IN RED ON THIS SHEET.

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
CHIEF, DEVELOPMENT ENGINEERING DIVISION: \_\_\_\_\_ DATE: 2-26-16  
CHIEF, DIVISION OF LAND DEVELOPMENT: \_\_\_\_\_ DATE: 3-01-16  
DIRECTOR: \_\_\_\_\_ DATE: 3-2-16

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

**PROFESSIONAL CERTIFICATION**  
I 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. 26569, EXPIRATION DATE: 7-18-17.

FOR REVISION ONLY  
DATE: 1-19-16  
PROFESSIONAL ENGR. NO. 26569

**LEGEND**

- SSF SUPER SILT FENCE
- SFD DIVERSION FENCE
- Limit of Disturbance
- Drainage Area Divide
- EXISTING EASEMENT
- EXISTING CONTOURS
- EXISTING ROADWAY
- EXISTING WETLANDS
- EXISTING INLET
- EXISTING MANHOLE
- EXISTING STORM DRAIN MANHOLE
- PROPOSED INLET
- PROPOSED MANHOLE
- PROPOSED STORM DRAIN
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS

**PURPOSE STATEMENT: REDLINE REVISION #8**

THE PURPOSE OF THIS REDLINE REVISION IS TO BRING THE EXISTING BUILDING TO CURRENT ACURA SHOWCASE STANDARDS. THE NEW ACURA STANDARDS MANDATE NEW CUSTOMER SERVICE REQUIREMENTS. THE FOLLOWING IMPROVEMENTS PERTAIN TO SERVICE CUSTOMER INTAKE PROCEDURES AND PROTOCOLS. THE BUILDING UPGRADE WILL INCLUDE THE ADDITION OF A NEW ENCLOSED SERVICE PARKING AREA, A CAR WASH AREA AND ASSOCIATED SPACE. EXISTING DEALERSHIP CANOPIES WILL BE ENCLOSED FOR THESE PROPOSED IMPROVEMENTS.

**MICRO-BIORETENTION SEQUENCE OF CONSTRUCTION**

- INSTALL STORM DRAIN INFLOW SYSTEM I-1 TO E-1. BLOCK I-1 UNTIL ESD HAS BEEN STABILIZED AND READY FOR STORMWATER TREATMENT.
- INSTALL ESD OVERFLOW INLET R-1 AND OUTFALL PIPE TO EXISTING I-5. TEMPORARILY BLOCK R-1 UNTIL FACILITY IS STABILIZED AND READY FOR STORMWATER TREATMENT.
- EXCAVATE FACILITY TO SUBGRADE AND FINE GRADE AREAS WITHIN LIMIT OF DISTURBANCE. STABILIZE SITE WITH VEGETATION.
- ONCE SITE HAS BEEN STABILIZED AND SUBGRADE ELEVATIONS HAVE BEEN VERIFIED, PLACE 3" OF 10" GRAVEL JACKET OF NO.57 OR NO.6 AGGREGATE IN THE BOTTOM OF EXCAVATION.
- PLACE 3" WIDE STRIPS OF FILTER FABRIC DOWN ON 3" GRAVEL LAYER TO SUPPORT UNDERDRAIN SYSTEM. PLACE UNDERDRAINS IN CENTER OF FABRIC & TIE PIPES TO INLET WALLS AT THEIR PRESCRIBED INVERT ELEVATIONS.
- PLACE REMAINDER (7") OF THE 10" GRAVEL JACKET. CHECK FOR LEVELNESS.
- PLACE 2" PEA GRAVEL LAYER OVER GRAVEL JACKET.
- BACKFILL TOPSOIL FILTER MEDIA IN LIFTS OF 12" TO 18". DO NOT COMPACT. INSTALL LANDSCAPE PLANTINGS.
- INSTALL RIP RAP INFLOW PROTECTION AT ALL CURB OPENING INFLOW POINTS.
- SEED OR SOD 3:1 SIDE SLOPES. ADD 3" MULCH LAYER.
- INSTALL MICRO BIO-RETENTION PLANTINGS

**AS-BUILT**

07-23-15 ACURA WEST DEALERSHIP SERVICE AREA EXPANSION

DATE NO. REVISION DESCRIPTION

**NORRIS ACURA WEST**  
8559 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MD 21043  
HOWARD COUNTY, MARYLAND

**OWNER / DEVELOPER**  
NORRIS AUTO GROUP  
925 MERRITT BOULEVARD  
BALTIMORE, MD 21222  
CONTACT: DAVID NORRIS COOK

**DMW**  
DAFT MCCUNE WALKER INC

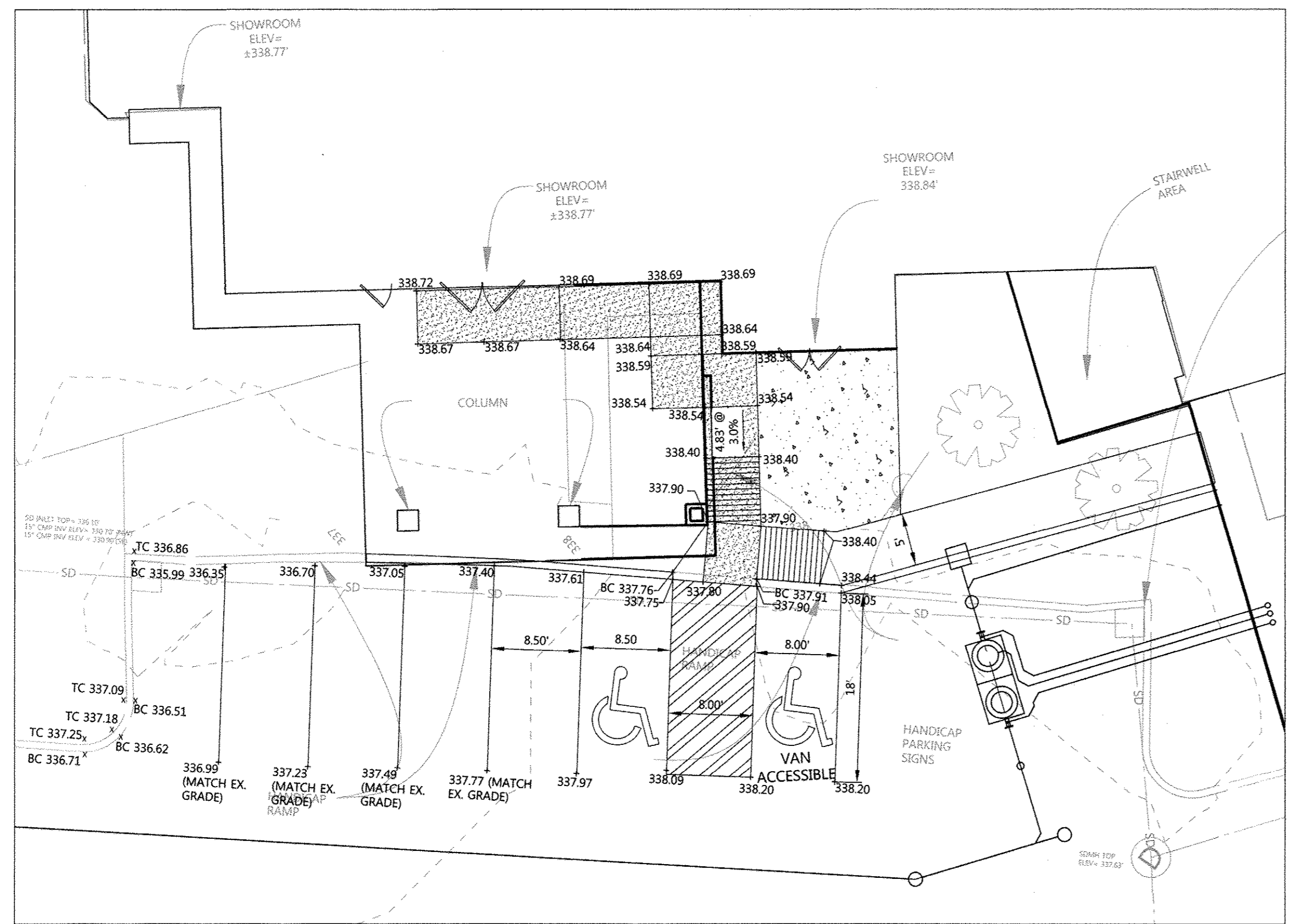
501 FAIRMOUNT AVENUE SUITE 300 TOWSON, MD 21286  
P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM

TITLE: **MICRO-BIORETENTION DETAILS AND NOTES**

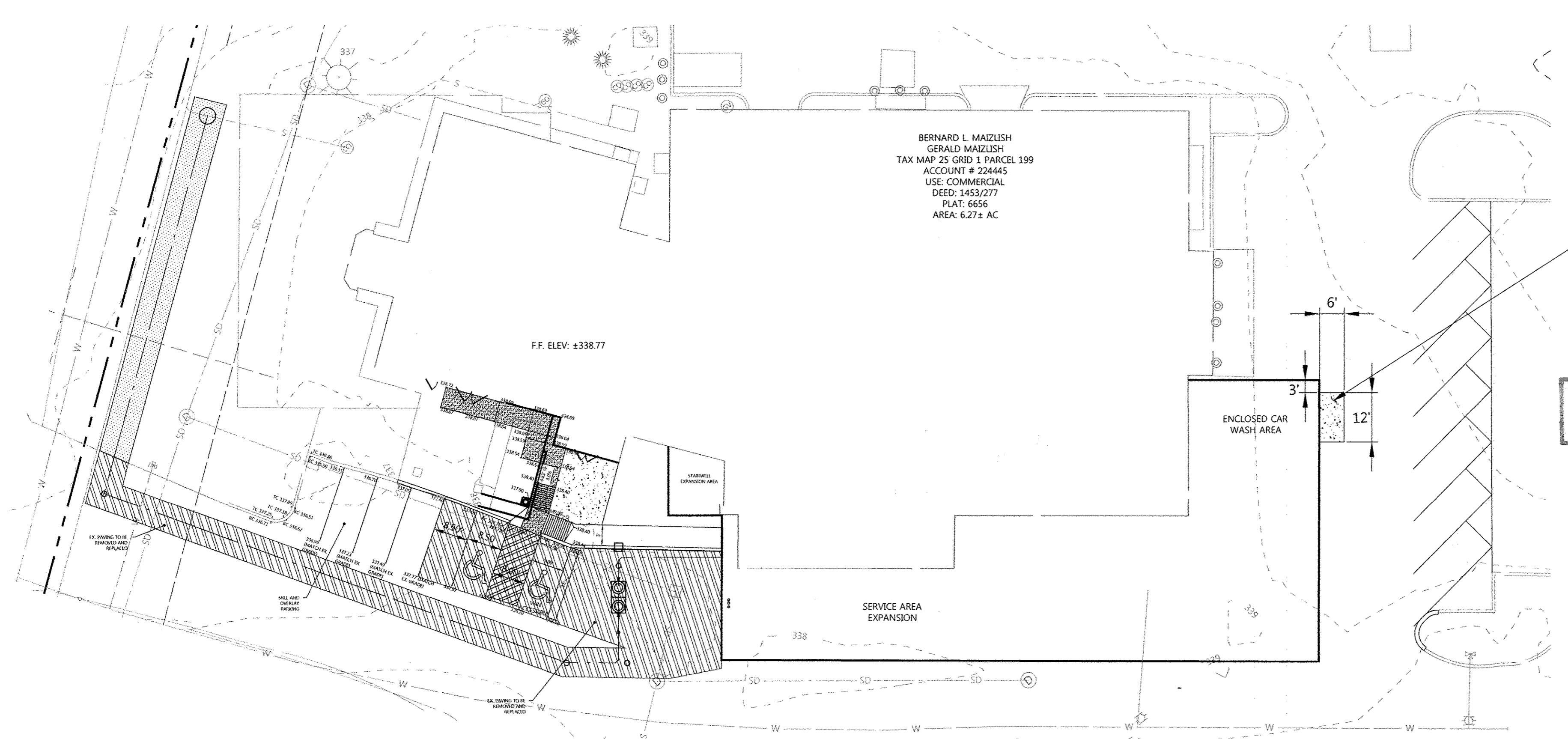
SUBDIVISION NAME: LANGELOTTA DEP. SECT./AREA: 199 LOT/PARCEL #: 199  
PLAT# OR L/P: 6656 BLOCK#: 1 ZONE: B-2 TAX/ZONE MAP: 25 ELEC. DIST.: 2 CENSUS TR.: 602900  
WATER CODE: SEWER CODE:

ADDRESS CHART  
LOT NUMBER: 31 STREET ADDRESS: 8559 BALTIMORE NATIONAL PIKE  
DES. BY ERS SCALE: AS SHOWN PROJ. NO. 15028  
DRN. BY GMO DATE: 1/19/16  
CHK'D. BY APPROVED 10 OF 12





**GRADING PLAN  
(ADA AREA)**  
SCALE 1" = 10'



**GRADING PLAN**  
SCALE 1" = 20'

**LEGEND**

---	SUBJECT PROPERTY LINE
---	ADJACENT PROPERTY LINE
-338 -340-	EX. CONTOURS
---	EX. BUILDING
---	EX. CURB
---	EX. TREELINE
---	EX. WATER LINE
---	EX. SEWER LINE
---	EX. FENCE LINE
---	PROP. BUILDING
---	PROP. CURB
---	PROP. SEWER
---	PROP. WATER
---	PROP. STORM DRAIN
---	LIMIT OF DISTURBANCE
---	ADA ACCESSIBLE ROUTE (MAX 2% CROSS SLOPE)
---	ADA RAMP (MAX 2% CROSS SLOPE) (MAX 1/4" RISE)

**STORMWATER MANAGEMENT NOTE**

STORMWATER MANAGEMENT HAS BEEN ADDRESSED THROUGH ENVIRONMENTAL SITE DESIGN.

**SWALE NOTE**

ALL SWALES HAVE BEEN DESIGNED BY THE ENGINEER TO CONVEY RUNOFF ACCORDING TO HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS.

**STANDARD NONDISTURBANCE NOTE**

THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST BUFFER EASEMENT OR OTHER FOREST RETENTION AREAS, EXCEPT AS PERMITTED BY THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY.

**GRADING NOTE**

THE PROPOSED GRADING SHOWN ON THIS PLAN MEETS THE REQUIREMENTS SET FORTH BY THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY AND COMPLIES WITH ARTICLE 33, TITLE 5 OF THE HOWARD COUNTY CODE. HOWEVER, DUE TO THE BUILDING TYPES AND LAYOUT, SOME FIELD ADJUSTMENTS MAY BE REQUIRED. ALL CHANGES MUST COMPLY WITH THE ABOVE MENTIONED REQUIREMENTS.

**SITE PLAN NOTES:**

- CONTRACTOR SHALL VERIFY EX. ELEVATIONS AND SITE CONDITIONS PRIOR TO BEGINNING OF CONSTRUCTION.
- CONTRACTOR TO MATCH REVISED GRADE FOR ALL EXISTING SURFACE APPURTENANCES (i.e. VALVES, MANHOLES, AREA DRAINS, ETC.)
- CONTRACTOR SHALL STRICTLY ADHERE TO ALL APPLICABLE RULES AND REGULATIONS REGARDING ADA ACCESSIBILITY

**DATA SOURCE:**

- BOUNDARY INFORMATION SHOWN HEREON IS BASED ON PLAT #6656, TITLED "LANCLOTTA PROPERTY PARCEL B-1".
- THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED BY DMW IN AUGUST 2015 AND SUPPLEMENTED WITH HOWARD COUNTY DIGITAL GIS.

DESIGN & DRAWINGS BASED ON MARYLAND COORDINATE SYSTEM  
LIMIT OF DISTURBANCE: 16,758.76 SF. / 0.38 AC.±

02-01-17	ACURA WEST LANDSCAPING AND BUILDING FOOTPRINT	
07-23-15	ACURA WEST DEALERSHIP SERVICE AREA EXPANSION	
DATE	NO.	REVISION DESCRIPTION

**AS-BUILT  
NORRIS ACURA WEST**

8559 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MD 21043  
HOWARD COUNTY, MARYLAND

**OWNER / DEVELOPER**  
NORRIS AUTO GROUP  
925 MERRITT BOULEVARD  
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501 FAIRMOUNT AVENUE SUITE 300 TOWSON, MD 21286  
P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM

**TITLE  
PROPOSED GRADING PLAN AND  
ADA RAMP AND ROUTE**

SUBDIVISION NAME		SECT./AREA	LOT/PARCEL #
PLAT# OR L/F		BLOCK#	ZONE
WATER CODE		SEWER CODE	CENSUS TR.
ADDRESS CHART			
LOT NUMBER		STREET ADDRESS	
8559 Baltimore National Pike			
DES. BY ERS		SCALE: AS SHOWN	PROJ. NO. 15028
DRN. BY GMO		DATE: 5/31/17	
CHK'D. BY		APPROVED	12 OF 12

CONTRACTOR SHALL MATCH EXISTING GRADE AND SLOPE. CONCRETE SERVICE AREA SHALL BE INSTALLED BASED UPON EXISTING GRADING PATTERNS, AND IS FOR THE PURPOSE OF PROVIDING ADDITIONAL PAVING SUPPORT IN ORDER TO ADDRESS MAINTENANCE CONCERNS ADJACENT TO THE PROPOSED CARWASH AREA.

There is no "As-Built" information provided on sheet.

2-2-18

PROF. ENGR 26569

I hereby certify that the documents were prepared or approved by me, a duly licensed professional engineer under the laws of the State of Maryland. License No. 26569 Exp. Date 7-18-19

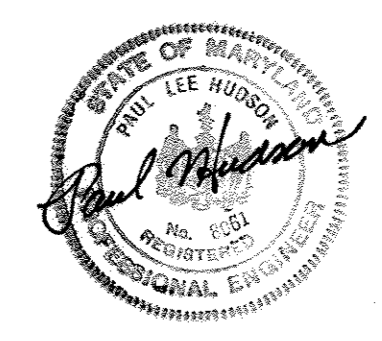
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MATTHEW C. ZANE  
PROFESSIONAL LAND SURVEYOR  
LIC.# 21739 (EXP. 12-12-19)  
DATE: 01-05-18

APPROVED: DEPARTMENT OF PLANNING AND ZONING

<i>Chad Chilton</i>	6-23-17
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Karl Stedman</i>	6-30-17
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>Nachin Jafarizadeh</i>	7-6-17
DIRECTOR	DATE

FOR REVISION ONLY  
2-14-17  
DATE



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

HOWARD SCD DATE

PROFESSIONAL ENGR. NO. 8061