

VICINITY MAP
SCALE: 1"=200'

SHEET INDEX

SHT. NO.	DESCRIPTION
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- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
MISS UTILITY: 1-800-257-7777
C & P TELEPHONE COMPANY: 725-9976
HOWARD COUNTY BUREAU OF UTILITIES: 313-2366
AT&T CABLE LOCATION DIVISION: 303-3553
B.G.&E. CONTRACTOR SERVICES: 850-4620
B.G.&E. CO. UNDERGROUND DAMAGE CONTROL: 787-4620
STATE HIGHWAY ADMINISTRATION: 531-5533
 - SITE ANALYSIS:**
AREA OF PARCEL = 3.90 AC
PRESENT ZONING = B-2
USE OF STRUCTURE: AUTO RETAIL SALES AND SERVICE
SALES FLOOR SPACE: 4,000 SQ.FT., MEZZANINE: 3,995 SQ.FT.
SERVICE AND BODY SHOP AREA: 20,600 SQ.FT. = 17 SERVICE BAYS
MAXIMUM NUMBER OF EMPLOYEES: 24
BUILDING COVERAGE ON SITE: 0.56 AC OR 14% OF GROSS AREA
PAVED PARKING LOT/AREA ON SITE: 0.78 AC OR 20% OF GROSS AREA
AREA OF LANDSCAPE ISLAND: 0.12 AC = 5,230 SQ.FT.
 - PROJECT BACKGROUND:**
LOCATION: CLARKSVILLE, MARYLAND TAX MAP: 34 PARCELS: 256, 365 AND 195
ZONING: B-2
SECTION/AREA: N/A
SITE AREA: 3.90 AC
DPZ REFERENCES: SP-93-14 APPROVED 9/20/93
F-94-38 APPROVED 4/8/94
WP-93-90 APPROVED 7/16/93
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
 - ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 - EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3,500 P.S.I.
 - 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.
 - ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
 - SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEERS (MEYER CONSULTING ENGINEERS, P.C.) WHICH MEET OR EXCEED APPLICABLE AGENCY STANDARDS. REFERENCE WINKELLY CHEVROLET REPORT DATED MARCH 2, 1994.
 - ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIG. 11-4 VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL.
 - STORMWATER MANAGEMENT PROVIDED UNDER F-94-38.
 - FLOODPLAIN SHOWN IN ACCORDANCE WITH STUDY APPROVED IN CONJUNCTION WITH F-94-14.
 - COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENTS 0013 AND 34C2 (NAD 83). NO GRADING IS PERMITTED WITHIN WETLANDS OR 25' WETLANDS BUFFER.
 - A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
 - EXISTING TOPOGRAPHY IS FROM HOLWECK SUBDIVISION ROAD CONSTRUCTION PLANS, PROPOSED GRADING F 94-38.
 - WATER AND SEWER FOR THIS PROJECT ARE PRIVATE.
 - ALL PAVING TO BE HOWARD COUNTY STANDARD P-2 UNLESS OTHERWISE NOTED (SEE P-2 AND P-3 DETAILS SHEET 7).
 - ALL CURB AND GUTTER TO BE HOWARD COUNTY STANDARD CONCRETE OR HOWARD COUNTY STANDARD BITUMINOUS WHERE SPECIFIED (SEE DETAIL SHEET 7).
 - REFERENCE ARCHITECTURAL/MECHANICAL PLANS FOR SEWER AND GRINDER PUMPS UP TO SEPTIC TANK.
 - GRADING PERMITTED WITHIN 50' OF STREAM BUFFER IN ACCORDANCE WITH WAIVER PETITION WP 93-90, APPROVED JULY 16, 1993.
 - COMAR 26.04.02 SPECIFIES 25 FEET TO BE MAINTAINED FROM THE SEWAGE DISPOSAL AREA TO DRAINAGE WAYS AND GULLIES. BY VIRTUE OF HEALTH DEPARTMENT SIGNATURE ON THIS DOCUMENT, AN EXCEPTION IS AUTHORIZED TO ALLOW CONSTRUCTION OF A ROOF DRAIN AND CATCH BASIN AT A SEPARATION OF 20 FEET FROM THE SEWAGE DISPOSAL AREA.
 - PROPOSED ELEVATIONS SHOWN HEREIN TO BE STRICTLY ENFORCED DURING GRADING AND SITE DEVELOPMENT. DISTURBANCE TO GROUND BELOW PROPOSED ELEVATIONS WILL RESULT IN LOSS OF PRIVATE SEWAGE EASEMENT.
 - A WATER METER SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION ON THE INCOMING WELL LINE TO EACH BUILDING.
 - APPROVAL OF COMMERCIAL SITE DEVELOPMENT PLAN SUBJECT TO COMPLIANCE TO INDUSTRIAL DISCHARGE PERMIT REQUIREMENTS AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - WATER SUPPLY TO BE APPROVED BY MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER SUPPLY PROGRAM PRIOR TO SITE DEVELOPMENT PLAN APPROVAL.
 - THE LOTS HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - ALL MATERIALS COLLECTED BY INTERNAL OIL/GRIET SEPARATOR TO BE DISPOSED OF OFFSITE.
 - THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
 - THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENT OF SECTION 161202 OF THE HOWARD COUNTY CODE FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES DESCRIBED IN DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

PARKING TABULATION

MEZZANINE LEVEL: 3995 SQ.FT.	PROVIDED	REQUIRED
17 SERVICE BAYS; 3 SPACES/BAY	51 SPACES	51 SPACES
4,000 SQ.FT. SHOWROOM; 2 SPACES/1000 SQ.FT.	8 SPACES	8 SPACES
11 BODY SHOP BAYS; 3 SPACES/BAY	33 SPACES	33 SPACES
2 (10) SQ.FT. OUTDOOR DISPLAY; 1 SPACE/1000 SQ.FT.	2 SPACES	3 SPACES
HANDICAP SPACES	5 SPACES	5 SPACES
TOTAL SPACES	113 SPACES	100 SPACES

PROPOSED WELL LINE SPECIFICATIONS

PROPOSED 1-1/2" 250 p.s.i. POLY BUTYLENE WELL LINE TO BE CONSTRUCTED UTILIZING FORD FITTINGS AND 1-1/2" PACK JOINT COUPLINGS WITH STAINLESS STEEL INSERTS. COMMON TRENCH WITH 3 #1 RR STANDARD SINGLE CONDUCTOR COPPER WIRE BUTT CONNECTOR WITH SCOTCHCAST #8282 SPLICE KITS AT ALL WIRE SPLICES. 4.0' MINIMUM COVER TO PROPOSED GRADE.

LEGEND

---484---	EXISTING CONTOUR	•	BOLLARD (SEE DETAIL SHEET 7)
-484-	PROPOSED CONTOUR	■	P-3 PAVING (SEE DETAIL SHEET 7)
□	PROPOSED LIGHTING FIXTURE	▨	PRIVATE SEWAGE EASEMENT

ADDRESS CHART

PARCEL	STREET ADDRESS
'H'	12421 AUTO DRIVE

NOTE: ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE INDICATED.

OWNER/DEVELOPER
WIN KELLY CHEVROLET/CEO
12205 HALL SHOP ROAD
CLARKSVILLE MARYLAND, 21029

NOTE: NEW HC ACCESS TO BUILDING TO MEET ALL ADA REQUIREMENTS INCLUDING 2% MAXIMUM CROSS SLOPE.

NO.	REVISION	DATE
5	REVISE ENTRANCE FEATURE AND PARKING	05/30/13
4	ADD CANOPY AND NEW ENTRY FEATURE, RELOCATE HC SPACES	12/21/11
3	BODY SHOP ADDITION, RELOCATE HC SPACES	01/14/09
2	ADD FUEL TANK	5/8/95
1	REMOVE HANDICAP RAMP	12/21/94

**WIN KELLY CHEVROLET
PARCEL 'H' HOLWECK SUBDIVISION
SITE DEVELOPMENT PLAN**

TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

MARKS-VOGEL ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101
ELICOTT CITY, MARYLAND 21043
TELEPHONE: (410) 461-5828
FAX: (410) 465-8966

DESIGN BY: R.H.V.	
DRAWN BY: D.G.H.	
CHECKED BY: R.H.V.	
DATE: MARCH, 1994	
SCALE: 1"=30'	
W.O. NO.:	1 SHEET OF 8

ENGINEERS CERTIFICATE

"I HEREBY 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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

[Signature] 5/17/94
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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] 5/18/94
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

[Signature] 6/16/94
S. SOIL CONSERVATION SERVICE DATE

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

[Signature] 6/16/94
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 6/16/94
DIRECTOR DATE

[Signature] 6/16/94
CHIEF, LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: FOR STORM DRAINAGE AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 6/16/94
DIRECTOR DATE

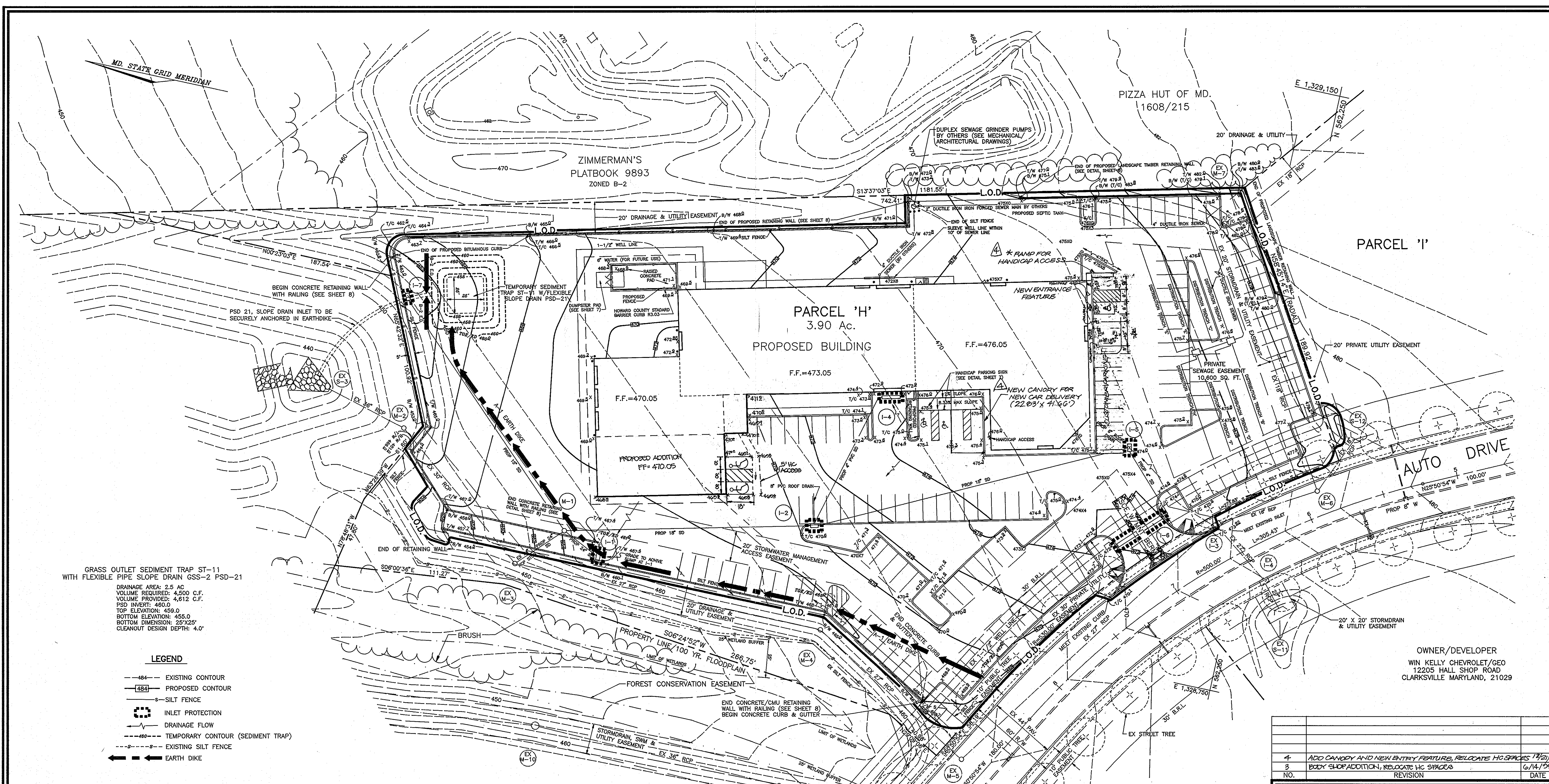
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 6-10-94
CHIEF, HEALTH OFFICER DATE

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER
HOLWECK SUBDIVISION	N/A	PARCEL 'H'

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
11180	6	B-2	34	5th	6051.01

PRIVATE PRIVATE
WATER CODE SEWER CODE



GRASS OUTLET SEDIMENT TRAP ST-11 WITH FLEXIBLE PIPE SLOPE DRAIN GSS-2 PSD-21
 DRAINAGE AREA: 2.5 AC
 VOLUME REQUIRED: 4,500 C.F.
 VOLUME PROVIDED: 4,612 C.F.
 PSD INVERT: 460.0
 TOP ELEVATION: 459.0
 BOTTOM ELEVATION: 455.0
 BOTTOM DIMENSION: 25' X 25'
 CLEANOUT DESIGN DEPTH: 4.0'

- LEGEND**
- 484- EXISTING CONTOUR
 - 484- PROPOSED CONTOUR
 - S- SILT FENCE
 - INLET PROTECTION
 - DRAINAGE FLOW
 - 460- TEMPORARY CONTOUR (SEDIMENT TRAP)
 - S- EXISTING SILT FENCE
 - ← EARTH DIKE

NOTE:
 1. ALL ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED.
 2. ALL CONCRETE CURB AND GUTTER IS HOWARD COUNTY STANDARD DETAIL R 3.01 UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED.
 4. PAVEMENT TO BE WARPED AS NECESSARY TO PROVIDE DRAINAGE TO INLET, AND KEEP FLOW MINIMUM OF 3' AWAY FROM RETAINING WALL.
 5. PROPOSED ELEVATIONS SHOWN HEREIN TO BE STRICTLY ENFORCED DURING GRADING AND SITE DEVELOPMENT. DISTURBANCE TO GROUND BELOW PROPOSED ELEVATIONS WILL RESULT IN LOSS OF PRIVATE SEWAGE EASEMENT.

OWNER/DEVELOPER
 WIN KELLY CHEVROLET/SEO
 12205 HALL SHOP ROAD
 CLARKSVILLE MARYLAND, 21029

4	ADD CANOPY AND NEW ENTRY FEATURE, RELOCATE HC SPACES 17/211	
3	BODY SHOP ADDITION, RELOCATE HC SPACES	6/14/99
NO.	REVISION	DATE

WIN KELLY CHEVROLET
PARCEL 'H' HOLWECK SUBDIVISION
GRADING
SEDIMENT & EROSION CONTROL
 TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

MARKS-VOGEL ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS

3891 PARK AVENUE, SUITE 101
 ELLICOTT CITY, MARYLAND 21048
 TELEPHONE: (410) 461-5828
 FAX: (410) 465-3986

DESIGN BY: R.H.V.	
DRAWN BY: D.G.H.	
CHECKED BY: R.H.V.	
DATE: MARCH, 1994	
SCALE: 1"=30'	
W.O. NO.:	2 OF 8

ENGINEERS CERTIFICATE
 I HEREBY 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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT
 Signature of Engineer: [Signature] DATE: 5/17/94

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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: [Signature] DATE: 5/18/94

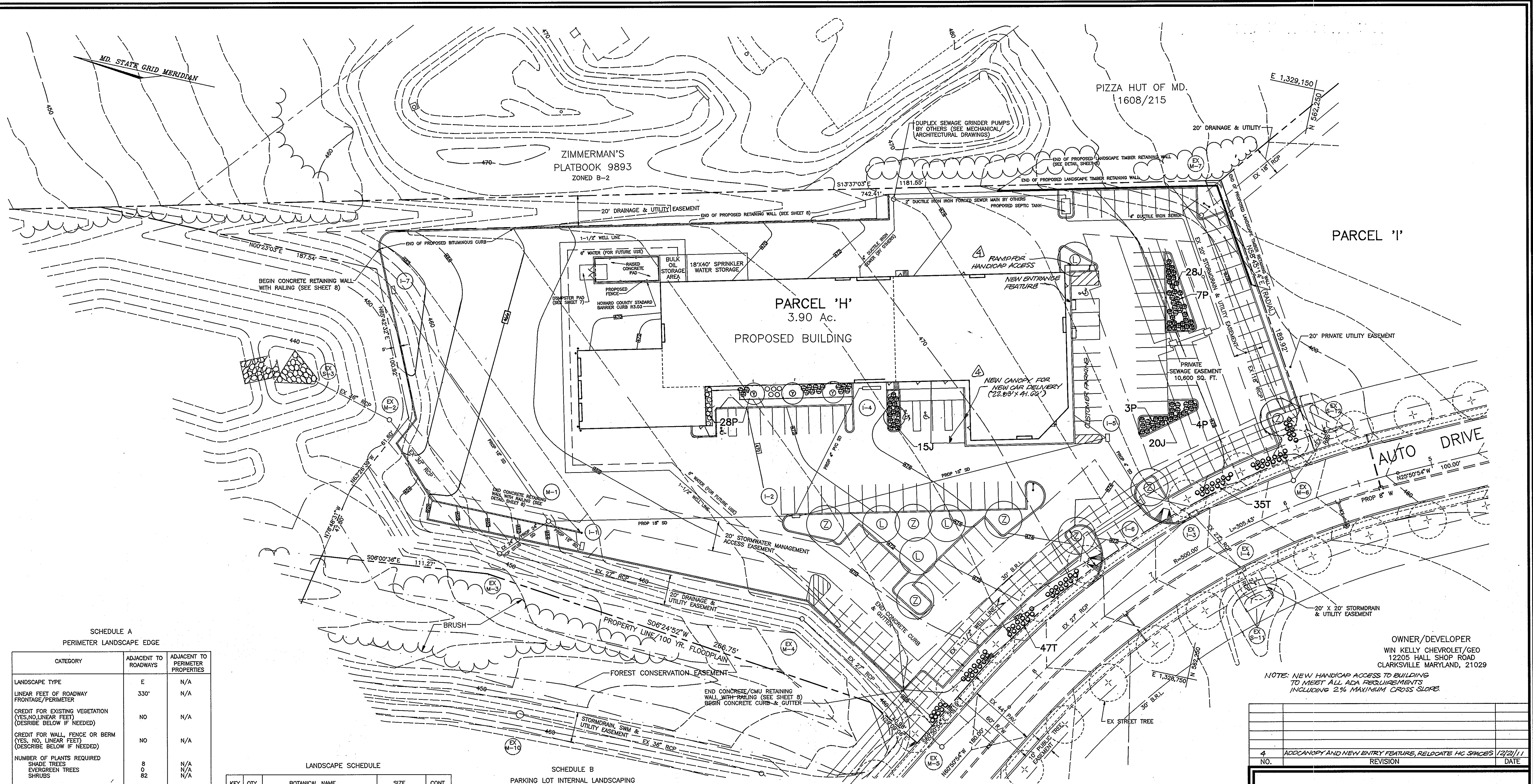
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Signature: [Signature] DATE: 6/16/94
 S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Signature: [Signature] DATE: 6/16/94
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Signature: [Signature] DATE: 6/16/94
 DIRECTOR
 Signature: [Signature] DATE: 6/16/94
 CHIEF, LAND DEVELOPMENT AND RESEARCH
 APPROVED: FOR STORM DRAINAGE AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: [Signature] DATE: 6/16/94
 DIRECTOR
 Signature: [Signature] DATE: 6/16/94
 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 Signature: [Signature] DATE: 6-10-94
 COUNTY HEALTH OFFICER

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER
HOLWECK SUBDIVISION	N/A	PARCEL 'H'
PLAT NO.	BLOCK NO.	ZONE
11180	6	B-2
TAX/ZONE	ELECT. DIST.	CENSUS TR.
34	5th	6051
PRIVATE	SEWER CODE	PRIVATE

*NOTE: NEW HANDICAP ACCESS TO MEET ALL ADA REQUIREMENTS INCLUDING 2% MAXIMUM CROSS SLOPE.



SCHEDULE A
PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	E	N/A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	330'	N/A
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	N/A
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	N/A
NUMBER OF PLANTS REQUIRED	8	N/A
SHADE TREES	0	N/A
EVERGREEN TREES	0	N/A
SHRUBS	82	N/A
NUMBER OF PLANTS PROVIDED	8	N/A
SHADE TREES	0	N/A
EVERGREEN TREES	0	N/A
OTHER TREES (2:1 SUBSTITUTION)	0	N/A
SHRUBS (10:1 SUBSTITUTION)	82	N/A
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)		

COMMENTS: SHADE TREES PROVIDED IN PARKING LOT DUE TO EXISTING STREET TREES AT ROAD FRONTAGE

LANDSCAPE SCHEDULE

KEY	QTY	BOTANICAL NAME	SIZE	CONT
Z	7	ZELKOVA SERRATA "VILLAGE GREEN"	2-1/2'-3" CAL	B&B
L	4	VILLAGE GREEN ZELKOVA	2-1/2'-3" CAL	B&B
Y	4	LIQUIDAMBAR STYRACIFLUA	8'-10" HT	B&B
P	42	SWEET GUM	2' - 2-1/2" HT	CONT
J	63	PRUNUS YEDOENSIS	18" - 24" SP	CONT
T	66	YOSHINO CHERRY	2' - 2-1/2" HT	B&B
		PRUNUS LAUROCERASUS "OTTO LUTYKEN"		
		JUNIPERUS HORIZONTALIS PLUMOSA COMPACTA		
		COMPACT ANDORA JUNIPER		
		TAXUS CUSPIDATA "NANA" DWARF JAPANESE YEW		

SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	93
NUMBER OF TREES + ISLANDS REQUIRED	1/20 SPACES=5
NUMBER OF TREES PROVIDED	3
SHADE TREES	
OTHER TREES (2:1 SUBSTITUTION)	62
SHRUBS	

COMMENTS: DUE TO LIMITATION OF LANDSCAPING OVER SEPTIC EASEMENT SUBSTITUTE SHRUBS FOR 2 SHADE TREES (10:1 MIN.) 62 SHRUBS PROVIDED

NOTE: THIS PLAN IS INTENDED FOR LANDSCAPE PURPOSES ONLY

- NOTE:
1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 2. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$1,300.00 (\$100 PER TREE)
 3. THE CONTRACTOR IS TO EXERCISE CAUTION WHEN INSTALLING LANDSCAPING IN CLOSE PROXIMITY TO SITE UTILITIES.

OWNER/DEVELOPER
WIN KELLY CHEVROLET/CEO
12205 HALL SHOP ROAD
CLARKSVILLE MARYLAND, 21029

NOTE: NEW HANDICAP ACCESS TO BUILDING TO MEET ALL ADA REQUIREMENTS INCLUDING 2% MAXIMUM CROSS SLOPE

NO.	REVISION	DATE
4	ADD CANOPY AND NEW ENTRY FEATURE, RELOCATE HG SPACES	12/2/11

WIN KELLY CHEVROLET
PARCEL 'H' HOLWECK SUBDIVISION
LANDSCAPE PLAN

TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

MARKS-VOGEL ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101 ELICOTT CITY, MARYLAND 21043 TELEPHONE: (410) 461-5828 FAX: (410) 465-3968

DESIGN BY: K.A.F.
DRAWN BY: D.G.H.
CHECKED BY: K.A.F.
DATE: MARCH, 1994
SCALE: 1"=30'
W.O. NO.:
3 SHEET OF 8

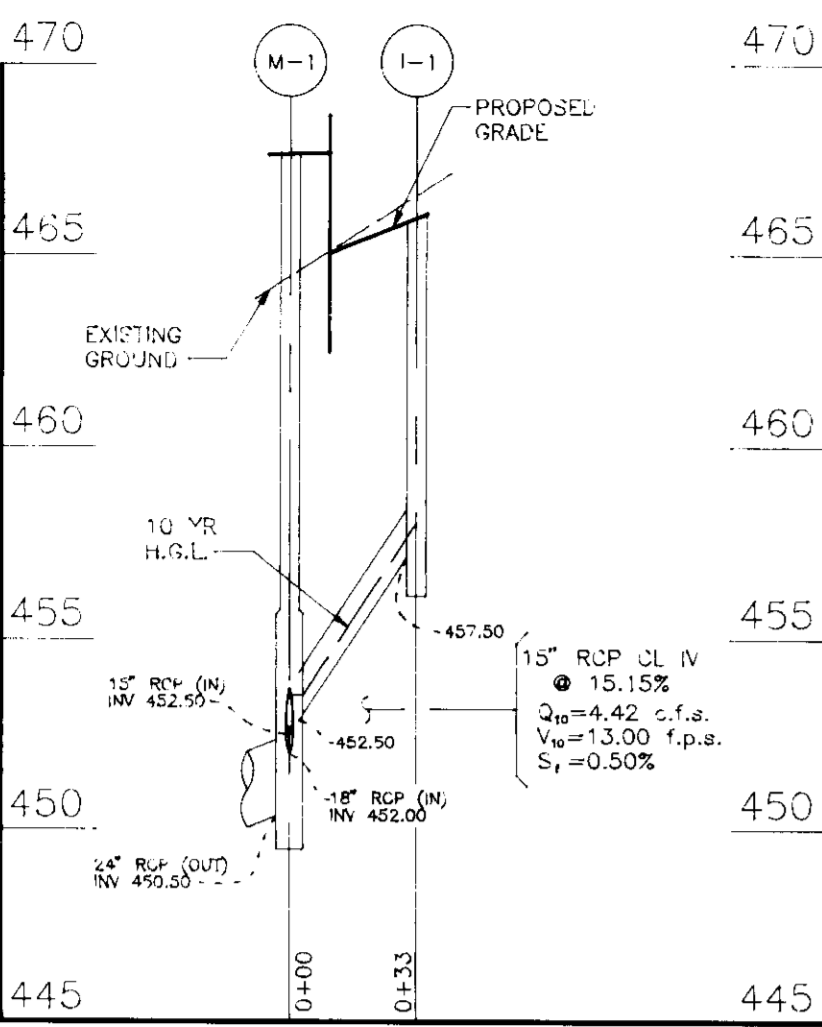
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR
DATE 6/16/94

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER
DATE 6-10-94

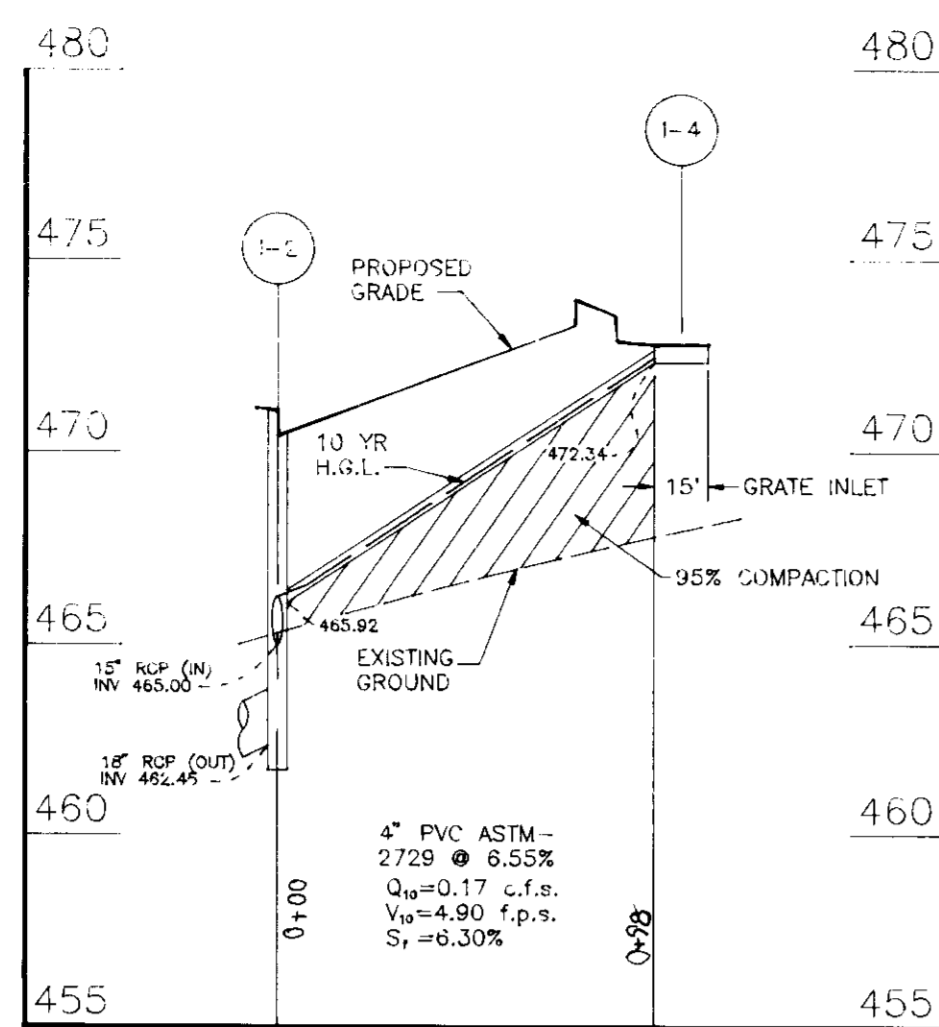
APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
DATE 6/16/94

CHIEF, BUREAU OF ENGINEERING
DATE 6/16/94

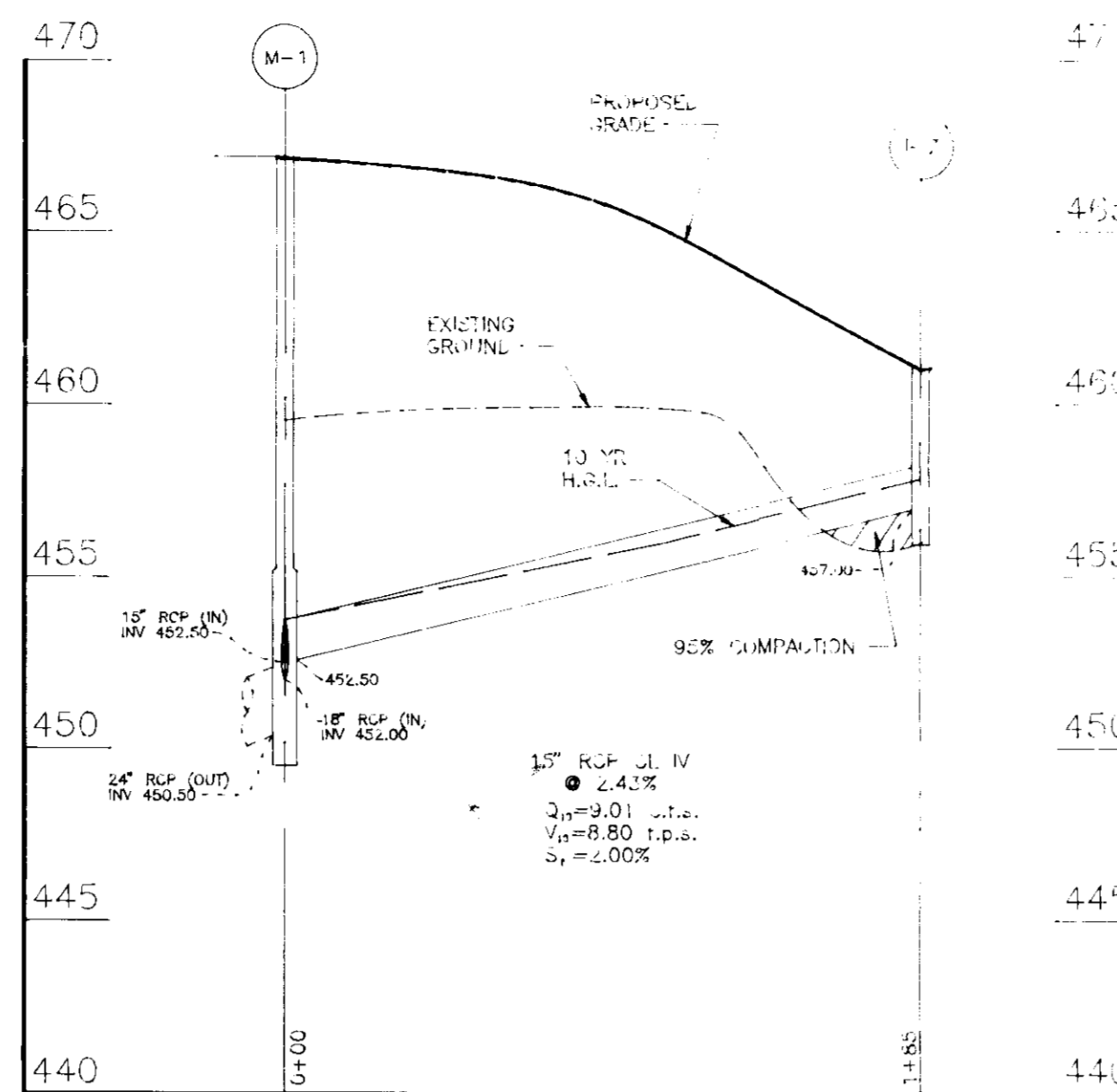
SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER
HOLWECK SUBDIVISION	N/A	PARCEL 'H'
PLAT NO.	BLOCK NO.	ZONE
11180	6	B-2
TAX/ZONE	ELECT. DIST.	CENSUS TR.
34	5th	6051
PRIVATE	PRIVATE	
WATER CODE	SEWER CODE	



STORM DRAIN PROFILE
SCALE: VERT. 1"=5', HORIZ. 1"=50'



STORM DRAIN PROFILE
SCALE: VERT. 1"=5', HORIZ. 1"=50'



STORM DRAIN PROFILE
SCALE: VERT. 1"=5', HORIZ. 1"=50'

STRUCTURE SCHEDULE

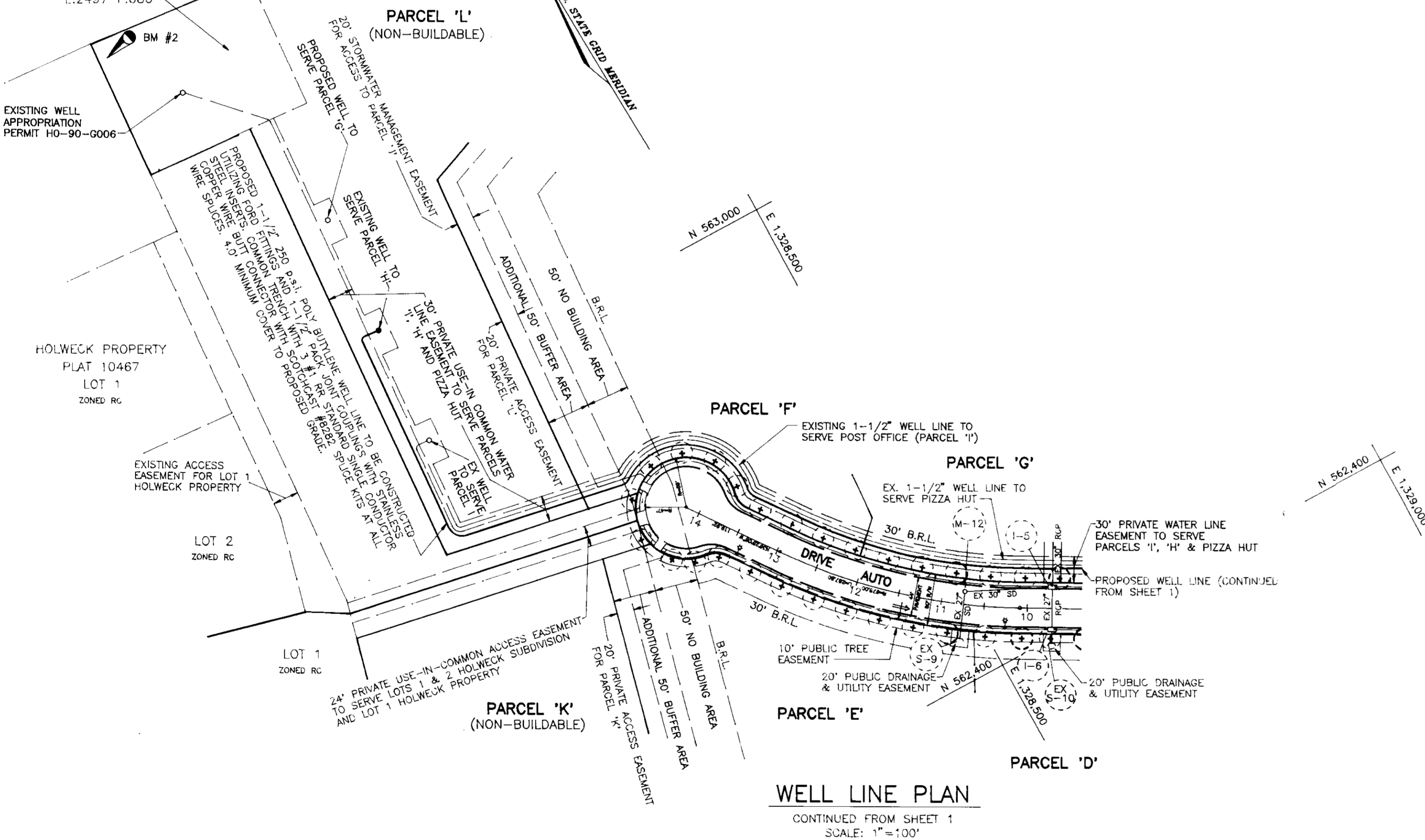
NO.	TYPE	SIZE	LOCATION	INVERT	OUTLET	REMARKS
1-1	4" PVC 12" MANHOLE	482.00	E 'B' STA. 1+39.72 46.00' LEFT	482.00		HOWARD COUNTY ST. 11.00' 4.00' (REPROPOSED)
1-2	PROPOSED TYPE A-13 INLET	471.10	E 'B' STA. 1+87.67 30.00' LEFT	486.00	486.40	HOWARD COUNTY ST. 11.00' 4.40'
1-4	REINFORCED TRENCH FRAME WITH GRATE INLET	472.80	E 'B' STA. 1+35.44 52.29' RIGHT	472.80		REINFORCED TRENCH FRAME WITH HEAVY DUTY GRATE
1-5	4" PVC 12" MANHOLE	474.00	E 'D' STA. 0+43.80 8.41' LEFT	474.00		HOWARD COUNTY ST. 11.00' 4.20'
1-6	REINFORCED TRENCH FRAME WITH GRATE INLET	473.37	E 'A' STA. 0+46.20	473.37		REINFORCED TRENCH FRAME WITH HEAVY DUTY GRATE
1-7	4" PVC 12" MANHOLE	491.00	N 262.312.05 E 1,325.890.26	491.00		HOWARD COUNTY ST. 11.00' 4.60'
M-1	4" 2" PRECAST MANHOLE	492.00	E 'B' STA. 3+51.67 30.81' LEFT	492.00	492.00	HOWARD COUNTY ST. 11.00' 4.20'

* REPRESENTS HIGHPOINT INVERT IN.

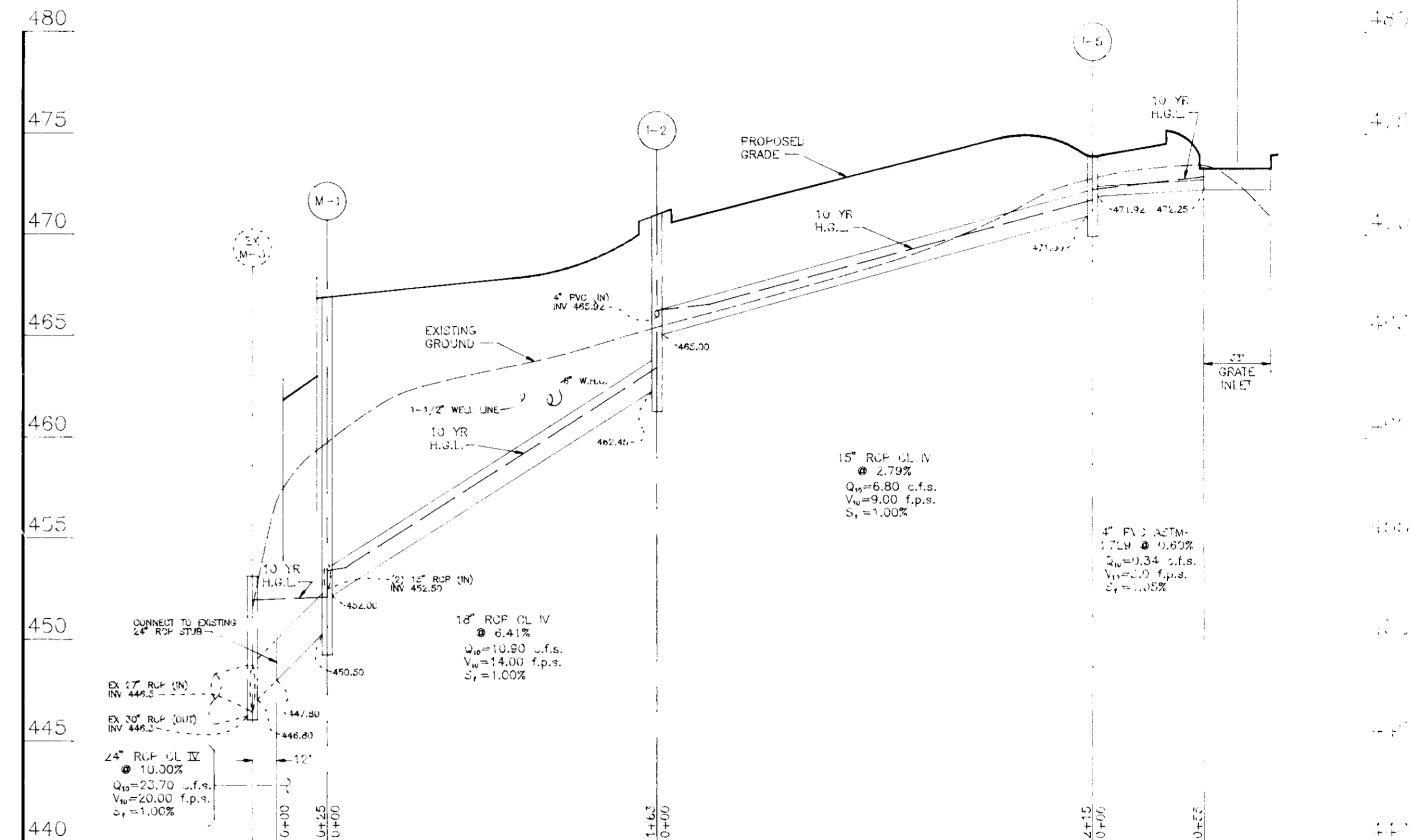
BENCH MARK #2

5/8" REBAR
ELEVATION= 448.18
COORDINATES:
N 563,512.56
E 1,327,919.74

EASMT. FOR A WELL AND WATERLINE TO PIZZA HUT
L.2497 F.680



WELL LINE PLAN
CONTINUED FROM SHEET 1
SCALE: 1"=100'



STORM DRAIN PROFILE
SCALE: VERT. 1"=5', HORIZ. 1"=50'

NO.	REVISION	DATE

OWNER/DEVELOPER
WIN KELLY CHEVROLET/GEO
12205 HALL SHOP ROAD
CLARKSVILLE MARYLAND, 21029

WIN KELLY CHEVROLET
PARCEL 'H' HOLWECK SUBDIVISION
STORM DRAIN PROFILES AND
WELL LINE PLAN

TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

MARKS-VOGEL ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101 ELLICOTT CITY, MARYLAND 21048 TELEPHONE: (410) 461-5828 FAX: (410) 465-3666



DESIGN BY: R.H.V.
DRAWN BY: D.G.H.
CHECKED BY: R.H.V.
DATE: MARCH, 1994
SCALE: AS SHOWN
W.C. NO.:

4 SHEET OF 8

ENGINEERS CERTIFICATE

"I HEREBY 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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

Robert H. Vogel 5/17/94
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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."

Kevin J. Zell 5/10/94
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

J. L. Wainfield 6/16/94
S. SOIL CONSERVATION SERVICE DATE

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

John L. Kauter 6/16/94
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

David Smith 6/16/94
DIRECTOR DATE
Anna Sturman 6/16/94
CHIEF, LAND DEVELOPMENT AND RESEARCH DATE

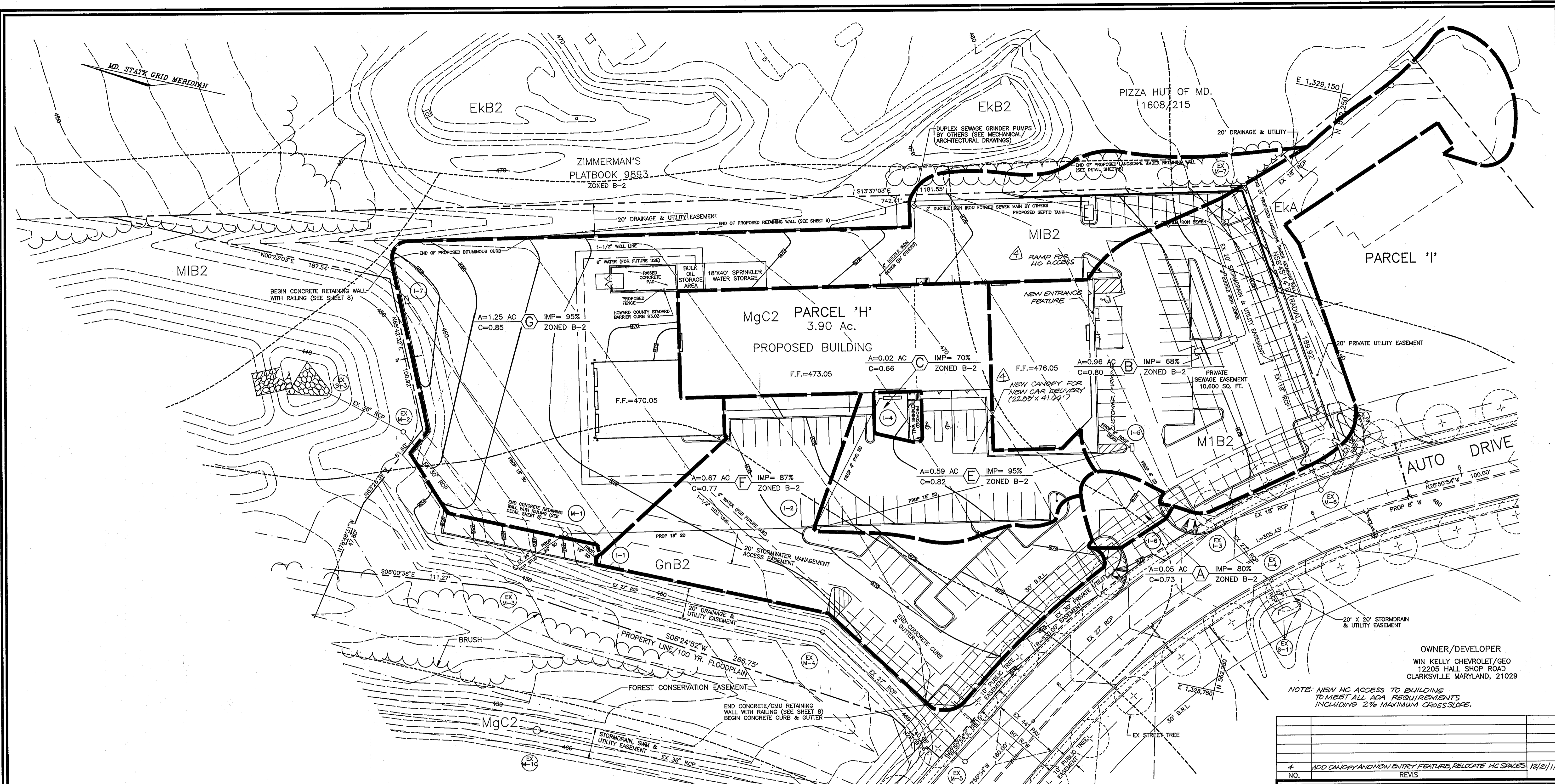
APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Thomas J. ... 6/16/94
DIRECTOR DATE
Charles ... 6/16/94
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH DEPARTMENT
Joseph ... 6/10/94
COUNTY HEALTH OFFICER DATE

SUBMISSION NAME		SECTION/AREA	PARCEL NUMBER		
HOLWECK SUBDIVISION		N/A	PARCEL 'H'		
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
11180	6	B-2	34	5th	6051
PRIVATE		PRIVATE	PRIVATE		
WATER CODE	SEWER CODE				



SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	TYPE
MgB2	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
EKA	ELIQUAK SILT LOAM, 0 TO 3 PERCENT SLOPES	C
MIB2	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
EKB2	ELIQUAK SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C

NOTE:
 -THIS SITE DOES NOT INCLUDE SOILS DESIGNATED AS HYDRIC OR SOILS WITH HYDRIC INCLUSIONS. SOILS ARE NOT CLASSIFIED AS HIGHLY ERODIBLE.
 -HOWARD SOIL SURVEY, MAP NUMBER 23

LEGEND	
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	DRAINAGE AREA DIVIDE
---	INLET PROTECTION
---	SOILS LINE
---	DRAINAGE FLOW

OWNER/DEVELOPER
 WIN KELLY CHEVROLET/CEO
 12205 HALL SHOP ROAD
 CLARKSVILLE MARYLAND, 21029

NOTE: NEW HC ACCESS TO BUILDING TO MEET ALL ADA REQUIREMENTS INCLUDING 2% MAXIMUM CROSS SLOPE.

NO.	REVISION
4	ADD CANOPY AND NEW ENTRY FEATURE, RELOCATE HC SPACES 12/21/11

WIN KELLY CHEVROLET
 PARCEL 'H' HOLWECK SUBDIVISION
 DRAINAGE AREA MAP
 AND EXISTING CONDITIONS

TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

MARKS-VOGEL ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE: (410) 461-5828 FAX: (410) 465-8966

DESIGN BY: R.H.V.
 DRAWN BY: D.G.H.
 CHECKED BY: R.H.V.
 DATE: MARCH, 1994
 SCALE: 1"=30'
 W.O. NO.:

5 SHEET OF 8

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR *Quinn Zimmerman* DATE 6/16/94
 CHIEF, LAND DEVELOPMENT AND RESEARCH

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *James G. Lewis* DATE 6/14/94
 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *Josephine Boudreau* DATE 6-10-94

SUBDIVISION NAME HOLWECK SUBDIVISION	SECTION/AREA N/A	PARCEL NUMBER PARCEL 'H'
PLAT NO. 11180	BLOCK NO. 6	ZONE B-2
TAX/ZONE 34	ELECT. DIST. 5th	CENSUS TR. 6051
PRIVATE WATER CODE	PRIVATE SEWER CODE	

SEPTIC SYSTEM DESIGN

24 EMPLOYEES X 15 GPD: REQUIRED=360 GPD PROVIDED=725 GPD
 +40 CUSTOMERS X 3 GPD=200 GPD
TOTAL GPD REQUIRED=560 GPD
 7.5 GPD MAXIMUM SEWAGE DESIGN FLOW ALLOCATION
 TRENCH LOADING RATES= 0.8 GAL/SF/DAY
 725/0.8=906

TRENCH CONFIGURATION= 4'x1' (12" O.S.)
 906/4=227 L.F. OF TRENCH
 INVERT INTO GRINDER PUMP CHAMBER: 464.50
 INVERT OUT OF BUILDING TO (GRINDER PUMP): 465.10
 INVERT INTO SEPTIC TANK: 475.00
 INVERT OUT OF SEPTIC TANK: 474.80
 EXISTING GRADE AT SEPTIC TANK: 478.8
 PROPOSED GRADE AT SEPTIC TANK: 476.1
 INVERT INTO DISTRIBUTION BOX #1: 473.20
 INVERT INTO TRENCH AT DISTRIBUTION BOX #1: 482.0
 ORIGINAL GRADE AT DISTRIBUTION BOX #1: 476.9
 PROPOSED GRADE AT DISTRIBUTION BOX #1: 470.8
 INVERT INTO DISTRIBUTION BOX #2: 470.6
 INVERT INTO TRENCH AT DISTRIBUTION BOX #2: 479.6
 ORIGINAL GRADE AT DISTRIBUTION BOX #2: 475.9
 PROPOSED GRADE AT DISTRIBUTION BOX #2: 475.9

NOTE: OUTLET PIPE FROM DISTRIBUTION BOX #1 TO DISTRIBUTION BOX #2 TO BE PLUGGED FOR FUTURE

SYSTEM #1	LENGTH OF TRENCH
A	60
B	80
C	65
D	65

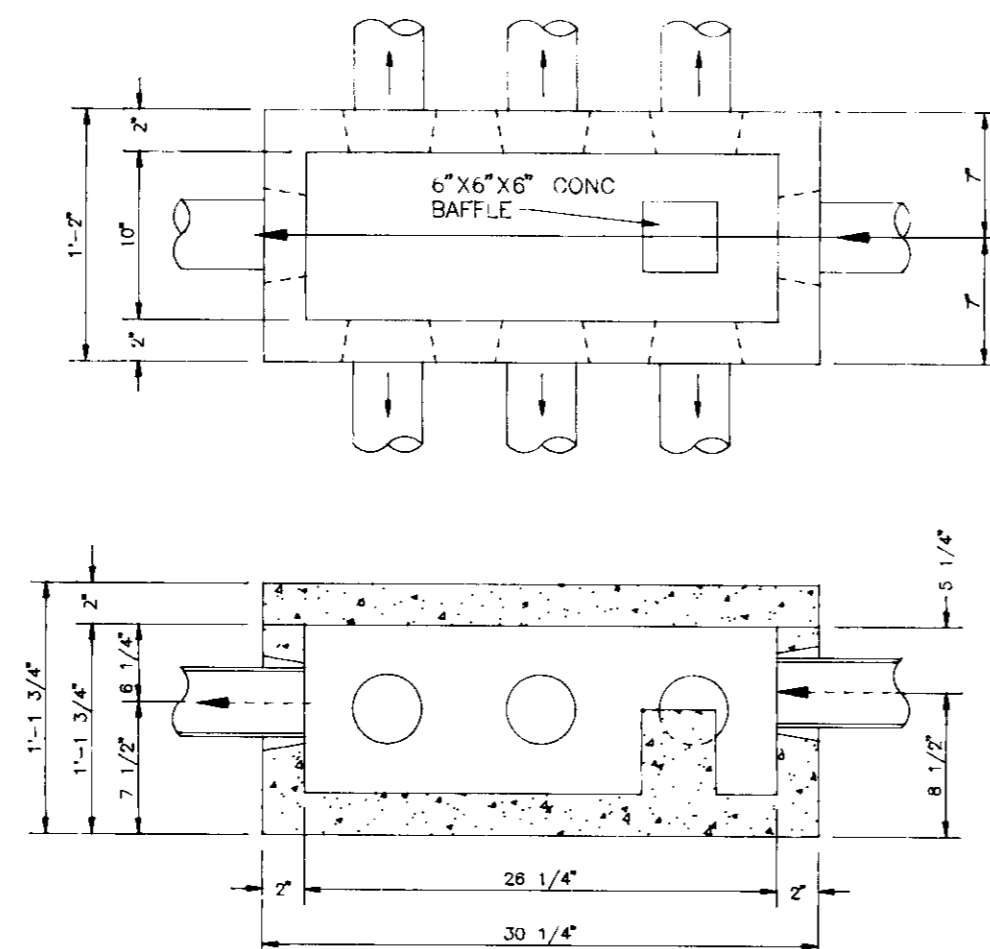
TOTAL TRENCH PROVIDED SYSTEM #1= 250

SYSTEM #2	LENGTH OF TRENCH
E	70
F	65
G	75
H	65

TOTAL TRENCH PROVIDED SYSTEM #2= 275

SEQUENCE OF CONSTRUCTION

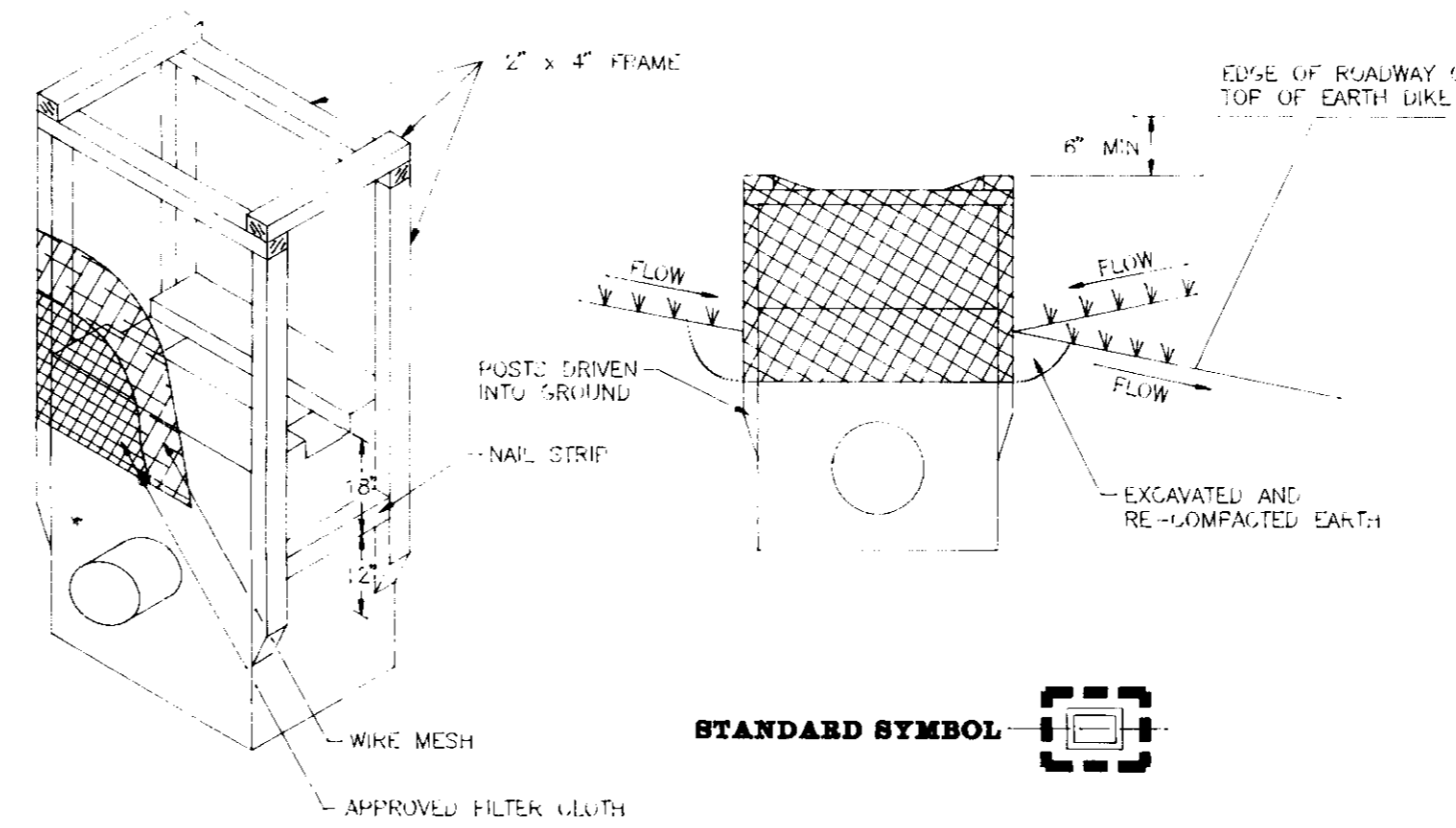
- OBTAIN GRADING PERMIT.
- NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. 1 DAY
- INSTALL PERIMETER SEDIMENT CONTROL MEASURES. 1 DAY
- PERFORM ROUGH SITE GRADING. 2 DAYS
- BEGIN BUILDING CONSTRUCTION 8 WEEKS
- INSTALL PRIVATE SEWAGE DISPOSAL SYSTEM. CONTACT HEALTH DEPARTMENT FOR INSPECTION PRIOR TO STONE PLACEMENT IN TRENCH. 2 DAYS
- CONSTRUCT RETAINING WALLS. 2 WEEKS
- CONSTRUCT STORM DRAINAGE SYSTEM AND INSTALL INLET PROTECTION. 1 WEEK
- INSTALL PRIVATE WELL LINE FROM PARCEL 1. CONTACT HEALTH DEPARTMENT FOR INSPECTION. 2 DAYS
- CONSTRUCT PARKING LOTS, DRIVEWAYS, AND SIDEWALKS. 2 WEEKS
- INSTALL LANDSCAPING. 1 DAY
- DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN HEREON.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.
- UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL STRUCTURES.



NOTE: CONCRETE MINIMUM STRENGTH= 4,000 P.S.I. @ 28 DAYS
 STEEL REINFORCEMENT= ASTM A-615-75, GRADE 60, 1" MIN. COVER

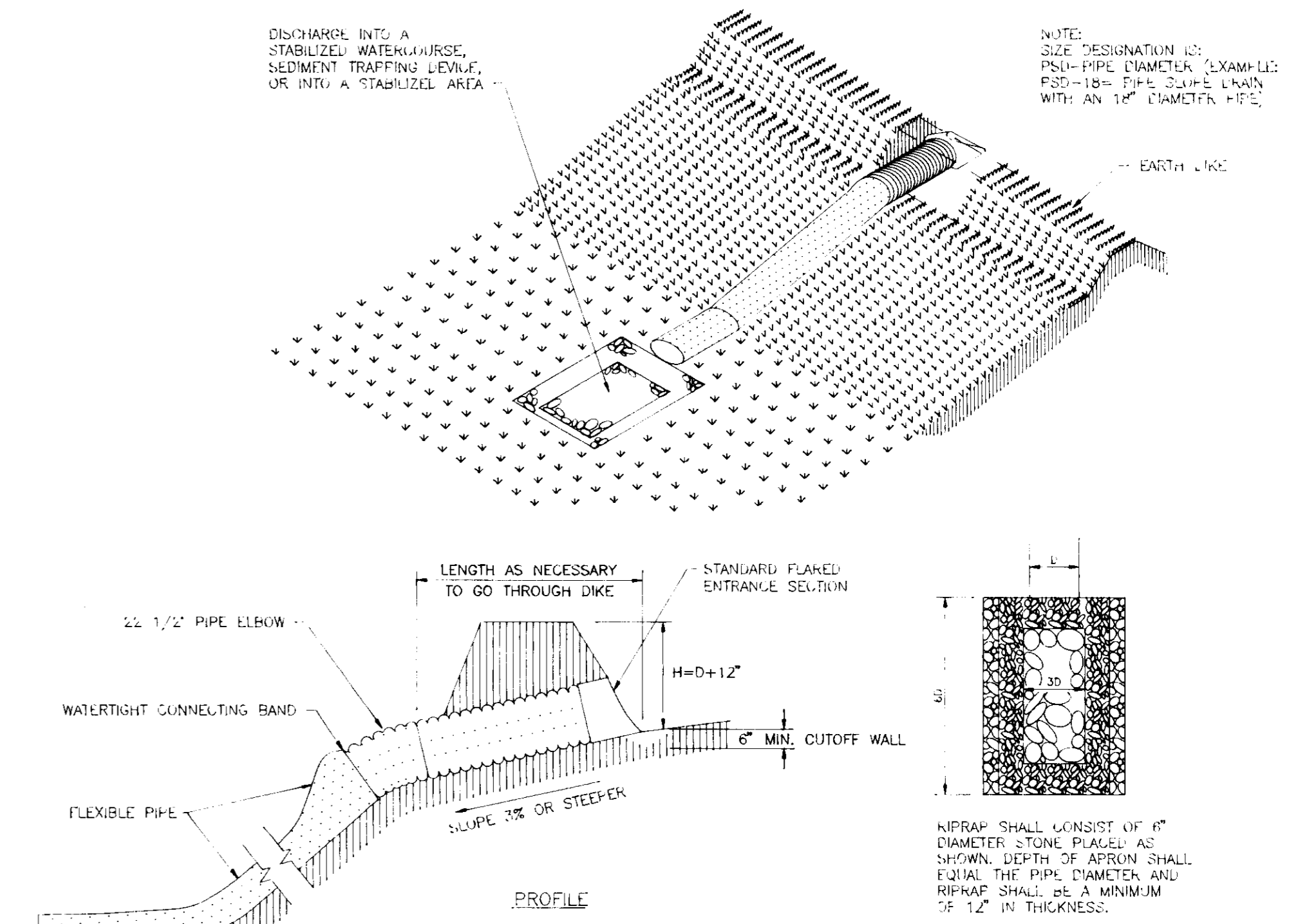
DISTRIBUTION BOX DETAIL

NOT TO SCALE



SWALE INLET PROTECTION DETAIL

NOT TO SCALE

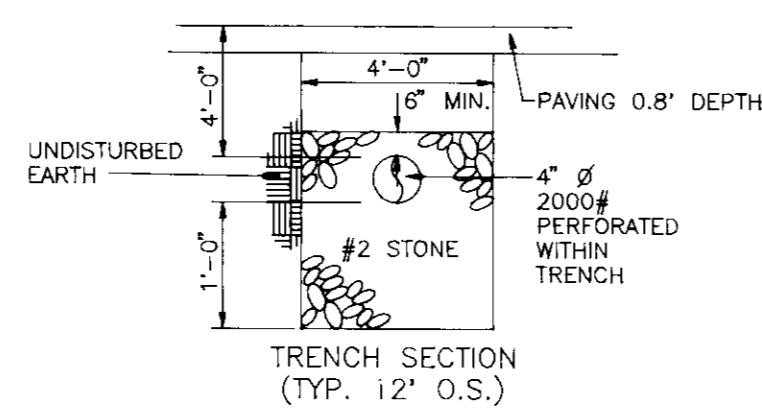


CONSTRUCTION SPECIFICATIONS

- THE INLET PIPE SHALL HAVE A SLOPE OF 3% OR STEEPER.
- THE TOP OF EARTH DIKE OVER THE INLET PIPE AND THOSE DIKES CARRYING WATER TO THE PIPE SHALL BE AT LEAST 1" HIGHER AT ALL POINTS THAN THE TOP OF THE INLET PIPE.
- THE INLET PIPE SHALL BE CORRUGATED METAL PIPE WITH WATERTIGHT CONNECTION BANDS.
- THE FLEXIBLE TUBING SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF A DURABLE MATERIAL WITH HOLD-DOWN GROMMETS SPACED 10" ON CENTERS.
- THE FLEXIBLE TUBING SHALL BE SECURELY FASTENED TO THE CORRUGATED METAL PIPE WITH METAL STRAPPING OR WATERTIGHT CONNECTING COLLARS.
- THE FLEXIBLE TUBING SHALL BE SECURELY ANCHORED TO THE SLOPE BY STAKING AT THE GROMMETS PROVIDED.
- A RIPRAP APRON SHALL BE PROVIDED AT THE OUTLET. THIS SHALL CONSIST OF 6" DIAMETER STONE PLACED AS SHOWN ON STANDARD DRAWING GSS-3.
- THE SOIL AROUND AND UNDER THE INLET PIPE AND ENTRANCE SECTION SHALL BE HAND TAMPED IN 4" LIFTS TO THE TOP OF THE EARTH DIKE.
- FOLLOW-UP INSPECTION AND ANY NEEDED MAINTENANCE SHALL BE PERFORMED AT EACH STORM.

GSS-3 PIPE SLOPE DRAIN (FLEXIBLE)

NOT TO SCALE



TYPICAL SEPTIC SYSTEM TRENCH DETAIL

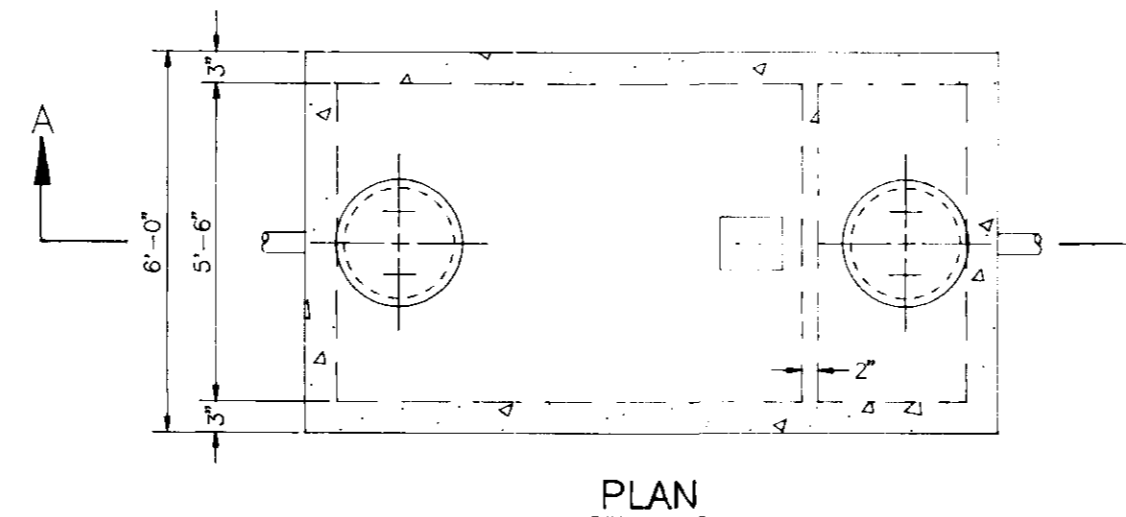
NOT TO SCALE

TRENCH CONSTRUCTION NOTES

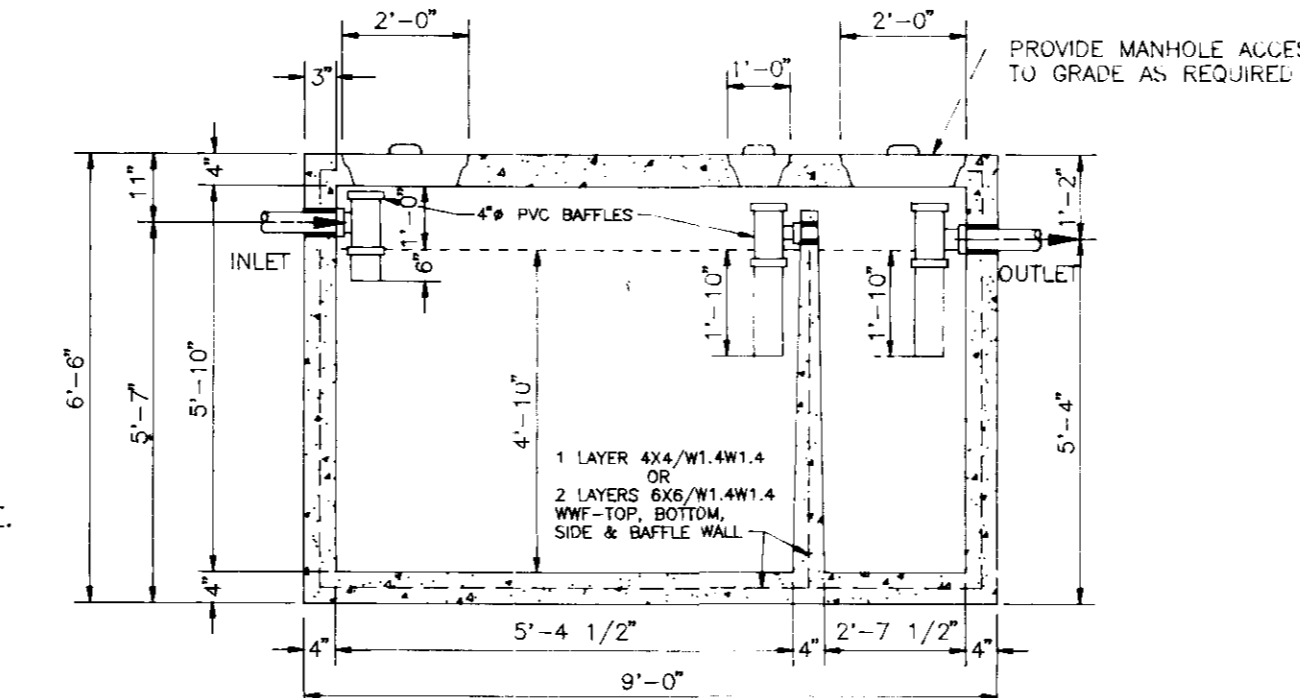
- TRENCHES SHALL BE EXCAVATED USING A BACKHOE. FRONT-END LOADERS OR BULLDOZERS SHOULD NOT BE USED FOR TRENCH EXCAVATION.
- EXCAVATED MATERIALS FROM THE TRENCHES SHALL BE PLACED AT A SUFFICIENT DISTANCE DOWNSLOPE OF THE TRENCHES TO AVOID MIGRATION OF SOILS BACK INTO THE TRENCH.
- WORK SHALL BE SCHEDULED SUCH THAT THE TRENCHES CAN BE COVERED IN ONE DAY TO PREVENT WINDBLOWN OR WATERBORNE SEDIMENT FROM ENTERING THE TRENCH. HEALTH DEPARTMENT TO BE NOTIFIED FOR INSPECTION PRIOR TO STONE PLACEMENT IN TRENCH.
- THE FIELD ENGINEER SHALL VERIFY THE CONSTRUCTED ELEVATIONS OF THE TRENCHES TO ENSURE A MINIMUM 4 FOOT COVER IS PROVIDED BELOW PAVEMENT BASE GRADE.
- UPON COMPLETION OF THE TRENCH EXCAVATION AND PRIOR TO PLACEMENT OF PAVING, HEAVY CONSTRUCTION EQUIPMENT TRAFFIC SHALL BE PERMANENTLY DIVERTED FROM THE TRENCHES AND ADJACENT AREA.

NOTE:

- PROPOSED ELEVATIONS SHOWN HEREIN TO BE STRICTLY ENFORCED DURING GRADING AND SITE DEVELOPMENT. DISTURBANCE TO GROUND BELOW PROPOSED ELEVATIONS WILL RESULT IN LOSS OF PRIVATE SEWAGE EASEMENT.
- WHEN EJECTOR/GRINDER PUMPS ARE REQUIRED, THE CONTRACTOR IS TO RUN A SEPTIC SYSTEM TEST TO INSURE PROPER PUMP FUNCTION AND DELIVERY TO TRENCHES PRIOR TO FINAL APPROVAL OF SEPTIC SYSTEM.



PLAN

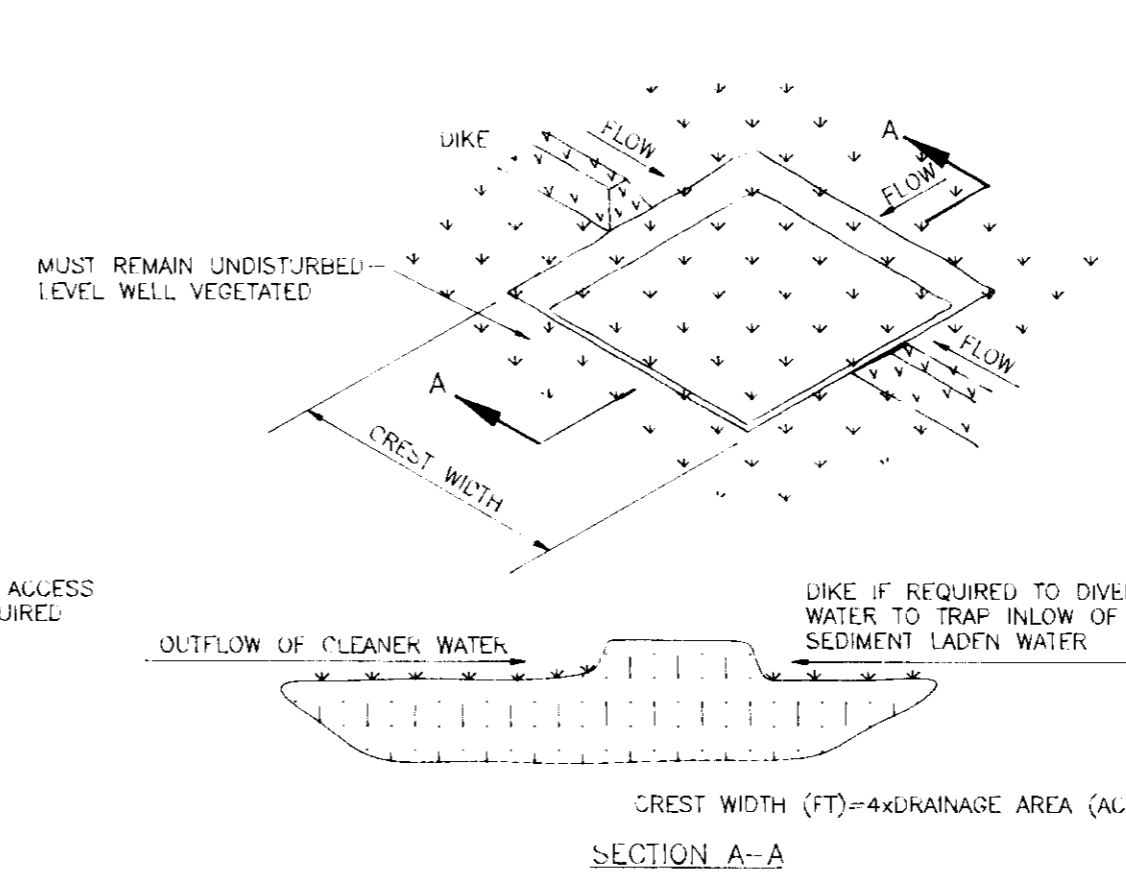


SECTION: A-A

NOTE: THIS TANK IS NOT DESIGNED, MANUFACTURED, OR RECOMMENDED TO BE INSTALLED UNDER VEHICLE TRAFFIC AREA
 NOTE: PORTLAND TYPE 1/4 4,000 P.S.I. MIN. CONCRETE

1,500 GALLON SEPTIC TANK TOP SEAM ONLY

NOT TO SCALE



SECTION A-A

CONSTRUCTION SPECIFICATIONS

- VOLUME OF SEDIMENT STORAGE SHALL BE 1800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE AREA.
- MINIMUM CREST WIDTH SHALL BE 4 X DRAINAGE AREA.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
- THE SEDIMENT TRAP SHALL BE REMOVED AN AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL OUT SLOPES SHALL BE 1:1 OR FLATTER.

MAXIMUM DRAINAGE AREA: 5 ACRES

GRASS OUTLET SEDIMENT TRAP ST-II

NOT TO SCALE

ENGINEERS CERTIFICATE

"I HEREBY 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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

Robert H. Reed, 5/17/94
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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."

Ken M. Bell, 5/18/94
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

J. H. Warfield, 6/16/94
 S. SOIL CONSERVATION SERVICE DATE

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

J. H. Warfield, 6/16/94
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James J. Smith, 6/16/94
 DIRECTOR DATE
 Gina Swannery, 6/16/94
 CHIEF, LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

Howard County Department of Public Works
 Director DATE
 Chief, Bureau of Engineering DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

Howard County Health Department
 County Health Officer DATE
 6-10-94

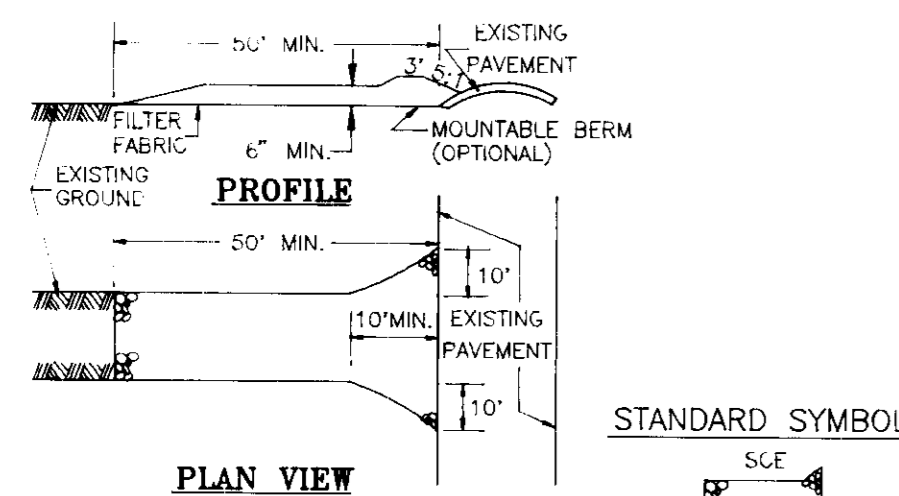
SUBDIVISION NAME HOLWECK SUBDIVISION	SECTION/AREA N/A	PARCEL NUMBER PARCEL 'H'
PLAT NO. 11180	BLOCK NO. 6	ZONE B-2
TAX/ZONE 34	ELECT. DIST. 5th	CENSUS TR. 6051
PRIVATE	PRIVATE	SEWER CODE

NO.	REVISION	DATE

WIN KELLY CHEVROLET
PARCEL 'H' HOLWECK SUBDIVISION
SEQUENCE OF CONSTRUCTION AND SPECIFICATIONS AND DETAILS
 TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

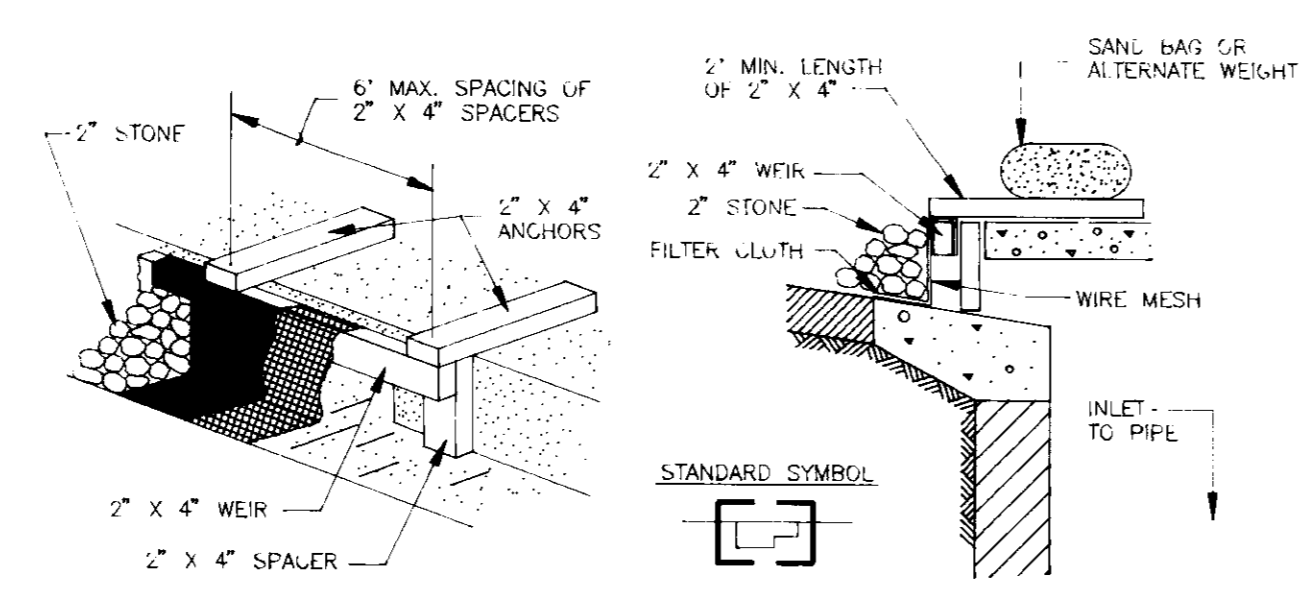
MARKS-VOGEL ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 3891 PARK AVENUE, SUITE 101 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE: (410) 461-5828 FAX: (410) 465-8966

DESIGN BY: R.H.V.
 DRAWN BY: D.G.H.
 CHECKED BY: R.H.V.
 DATE: MARCH, 1994
 SCALE: AS SHOWN
 W.O. NO.:
 6 SHEET OF 8



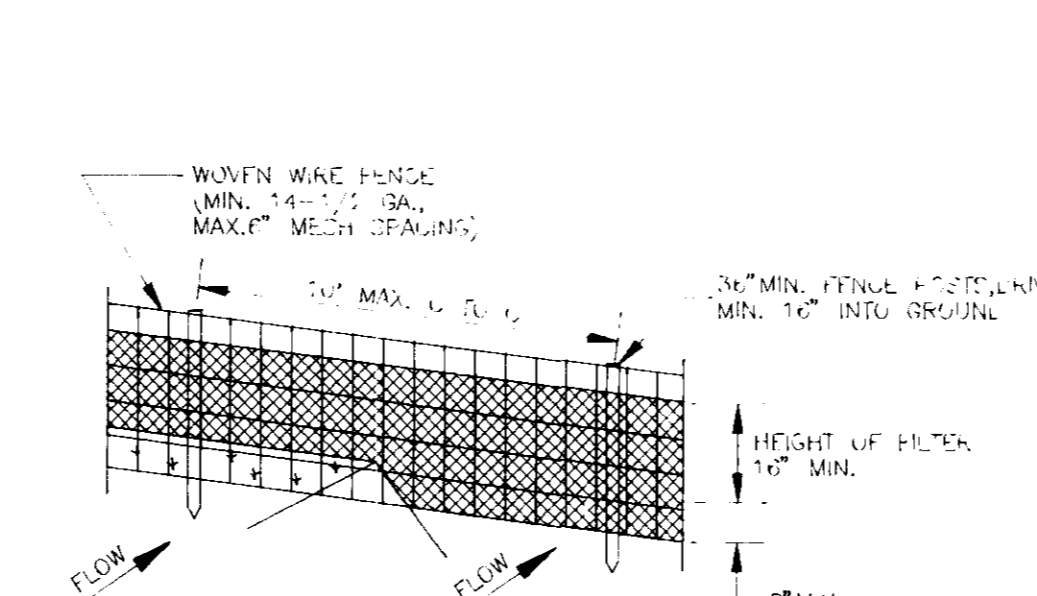
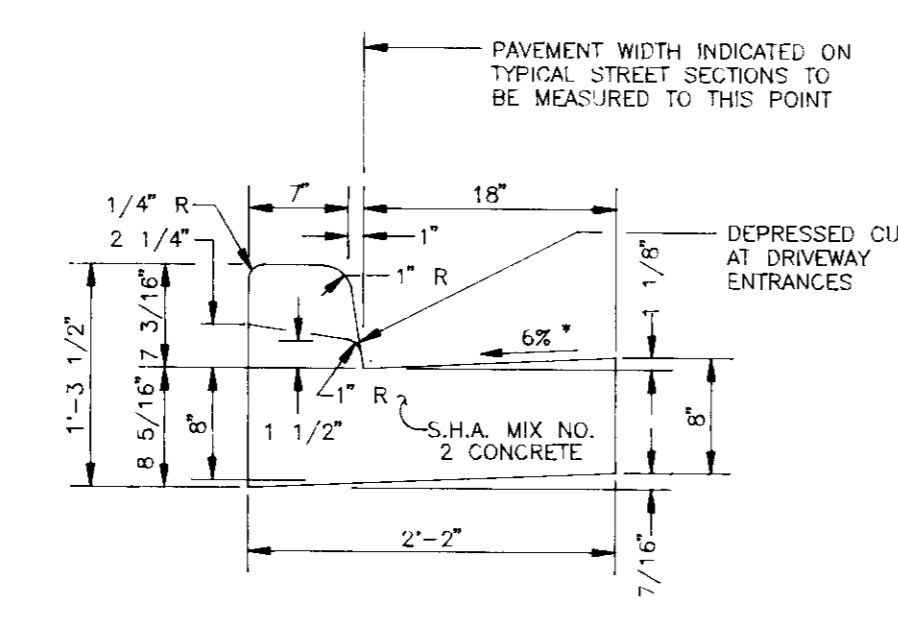
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENT LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINT WHERE INGRESS AND EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY LOT.
6. 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.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-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.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

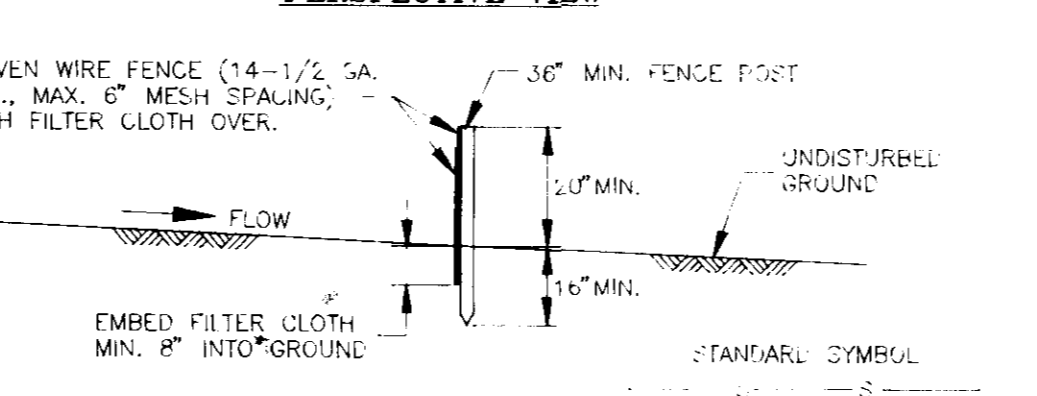


CURB INLET PROTECTION DETAIL

NOT TO SCALE



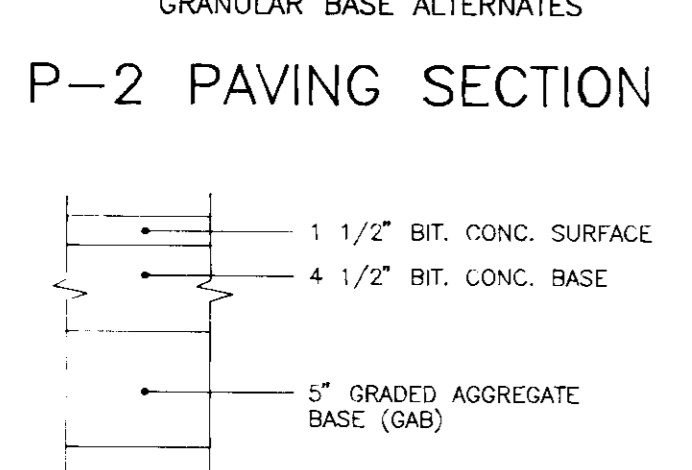
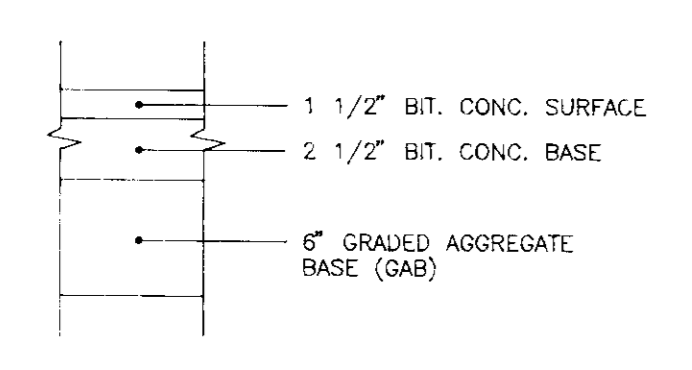
PERSPECTIVE VIEW



CONSTRUCTION NOTES FOR SILT FENCE

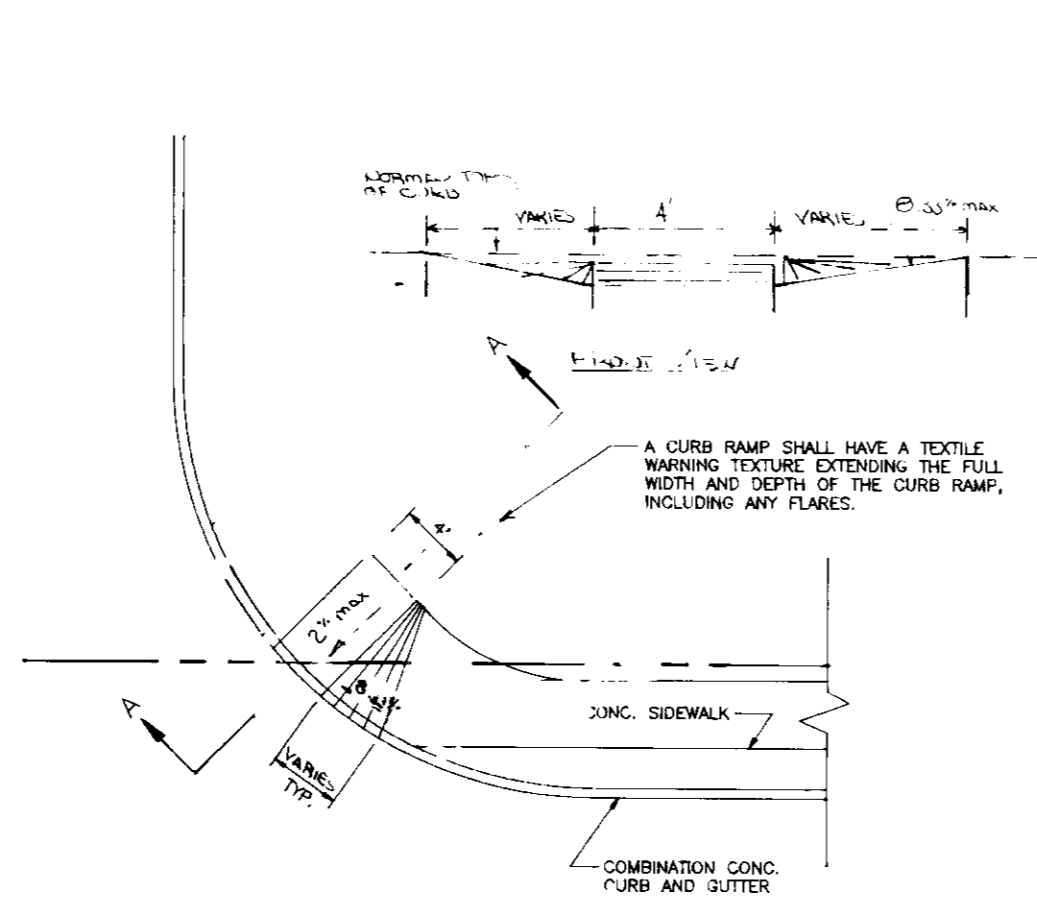
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP & MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

STABILIZED CONSTRUCTION ENTRANCE



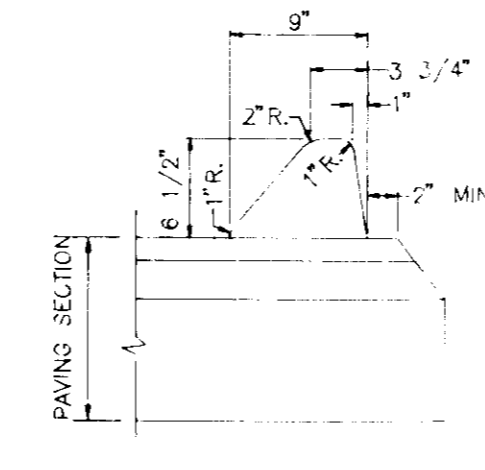
STANDARD COMBINATION CURB AND GUTTER

HOWARD COUNTY STANDARD R-3.01 NOT TO SCALE



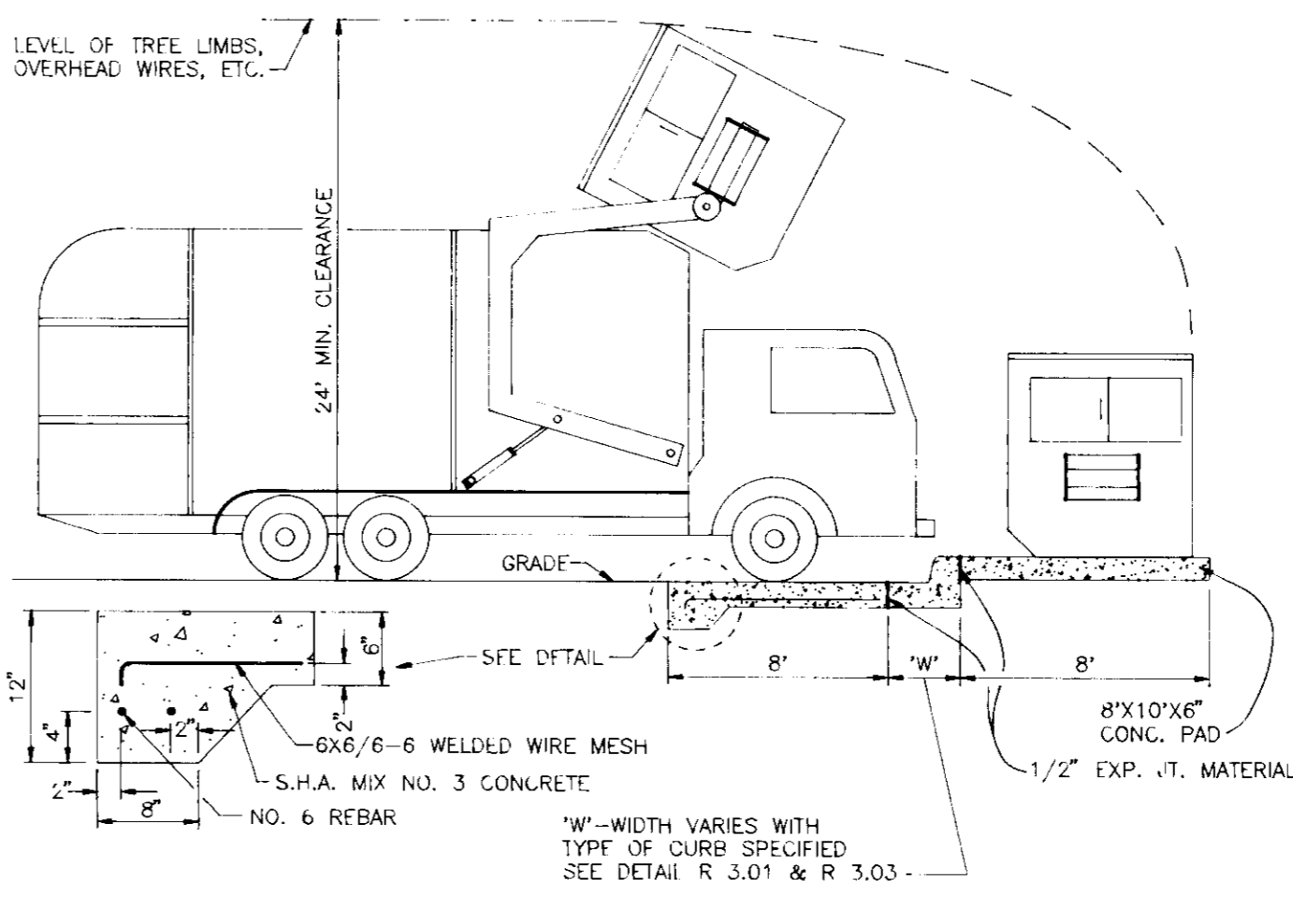
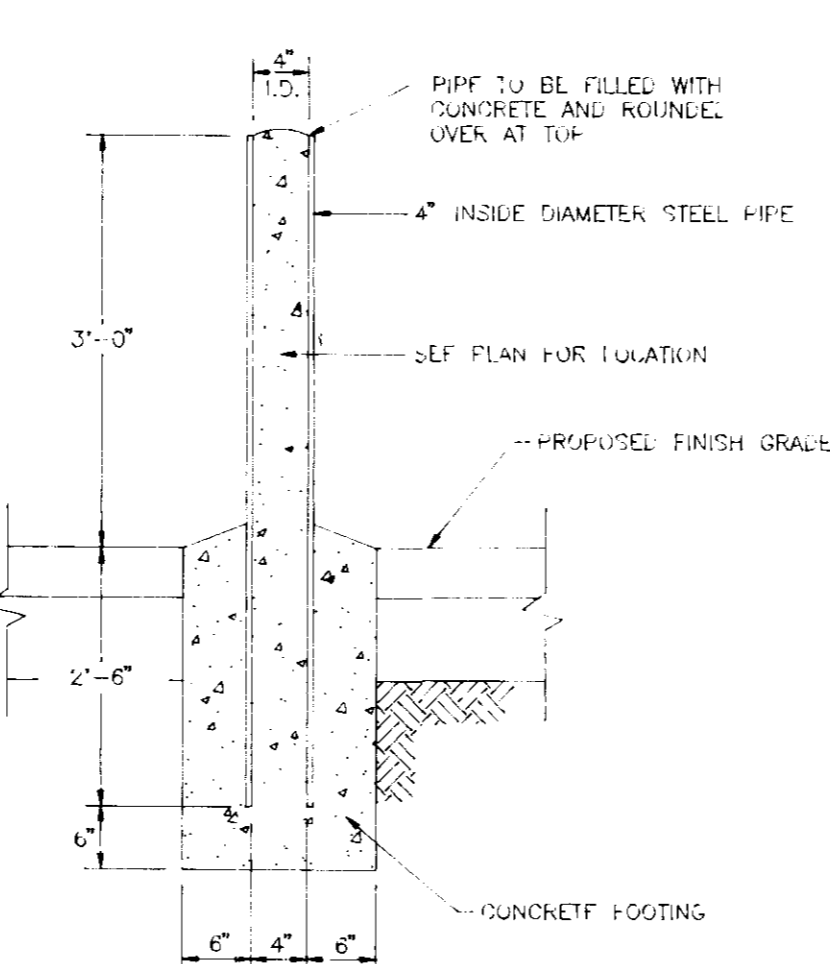
SILT FENCE

N.T.S.



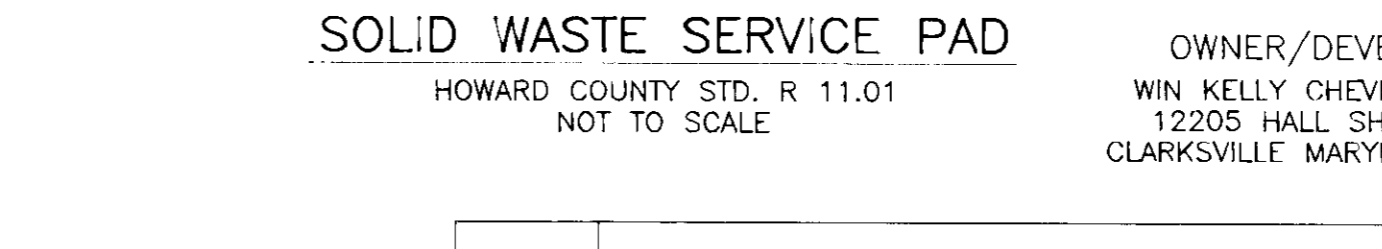
STANDARD BITUMINOUS CURB

HOWARD COUNTY STANDARD NO. R-3.02 NOT TO SCALE



HANDICAP SIGN

NOT TO SCALE



SOLID WASTE SERVICE PAD

HOWARD COUNTY STD. R 11.01 NOT TO SCALE

OWNER/DEVELOPER
WIN KELLY CHEVROLET/CEO
12205 HALL SHOP ROAD
CLARKSVILLE, MARYLAND, 21029

TEMPORARY SEEDING

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, disking, or other acceptable means before seeding, if not 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 November 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 unrattled 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.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SOIL 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 3 inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper 3 inches of soil. At time of seeding apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq. ft.).
- 2) 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. of 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. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified 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 reseeding.

SEDIMENT CONTROL NOTES

1. All Grading Permits shall be obtained prior to the starting of any Grading work.
2. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (992-2437).
3. All vegetation 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.
4. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.
5. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, Storm Drainage, of the Howard County Design Manual.
6. 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 seeding (Sec. 51), and (Sec. 54), temporary seeding (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow proper germination and establishment of grasses.
7. 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.
8. Site Analysis

Total area of site R/W and easements	3.9 acres
Area disturbed	3.0 acres
Area to be roofed or paved	2.7 acres
Area to be vegetatively stabilized	0.3 acres
Total cut	411 yds.
Total fill	3000 cu. yds.
Offsite waste/borrow area location	SITE BROUGHT TO FINAL GRADE UNDER FINAL CONSTRUCTION PLANS (P 94-38)
9. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
10. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
11. 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.
12. It is the contractor's responsibility to clean/restore the adjacent SWM facilities due to sediment emanating from construction activities on this site.

WIN KELLY CHEVROLET
PARCEL 'H' HOLWECK SUBDIVISION
DETAILS AND NOTES

TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND.

MARKS-VOGEL ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS

3891 PARK AVENUE, SUITE 101
ELLICOTT CITY, MARYLAND 21043

TELEPHONE: (410) 461-5828
FAX: (410) 465-8966

DESIGN BY: R.H.V.
DRAWN BY: D.G.H.
CHECKED BY: R.H.V.
DATE: MARCH, 1994
SCALE: AS SHOWN
W.O. NO.: 7 SHEET 8

ENGINEERS CERTIFICATE

I HEREBY 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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature of Engineer: [Signature] DATE: 5/17/94

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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: [Signature] DATE: 5/18/94

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: [Signature] DATE: 6/16/94

U.S. SOIL CONSERVATION SERVICE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: [Signature] DATE: 6/16/94

DIRECTOR

Signature: [Signature] DATE: 6/16/94

CHIEF, LAND DEVELOPMENT AND RESEARCH

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH DEPARTMENT

Signature: [Signature] DATE: 6-10-94

COUNTY HEALTH OFFICER

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature: [Signature] DATE: 6/16/94

DIRECTOR

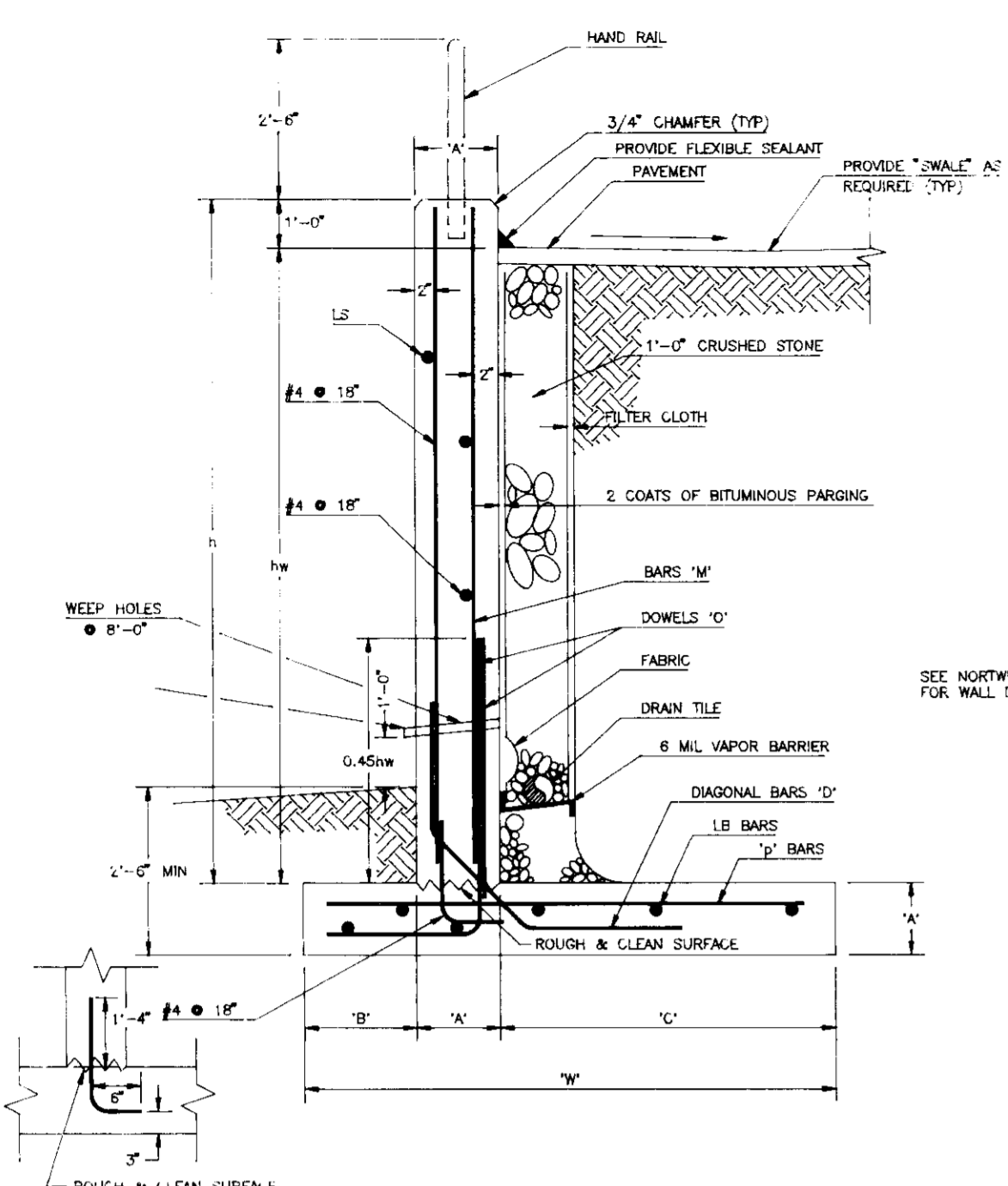
APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

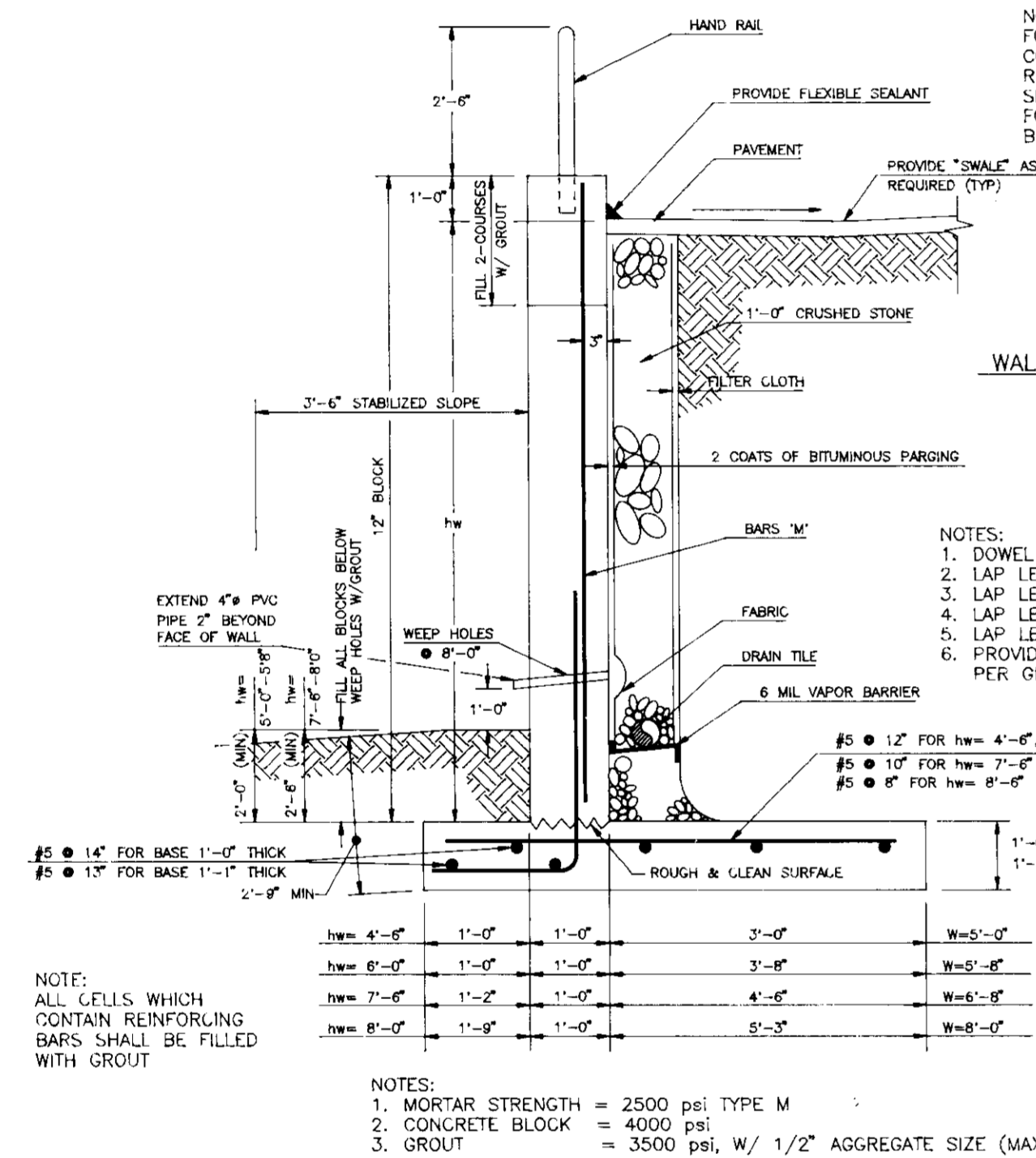
Signature: [Signature] DATE: 6/16/94

CHIEF, BUREAU OF ENGINEERING

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER
HOLWECK SUBDIVISION	N/A	PARCEL 'H'
FLAT NO.	BLOCK NO.	ZONE
11180	6	B-2
TAX/ZONE	ELECT. DIST.	CENSUS TR.
34	5th	6051
PRIVATE	PRIVATE	
WATER CODE	SEWER CODE	



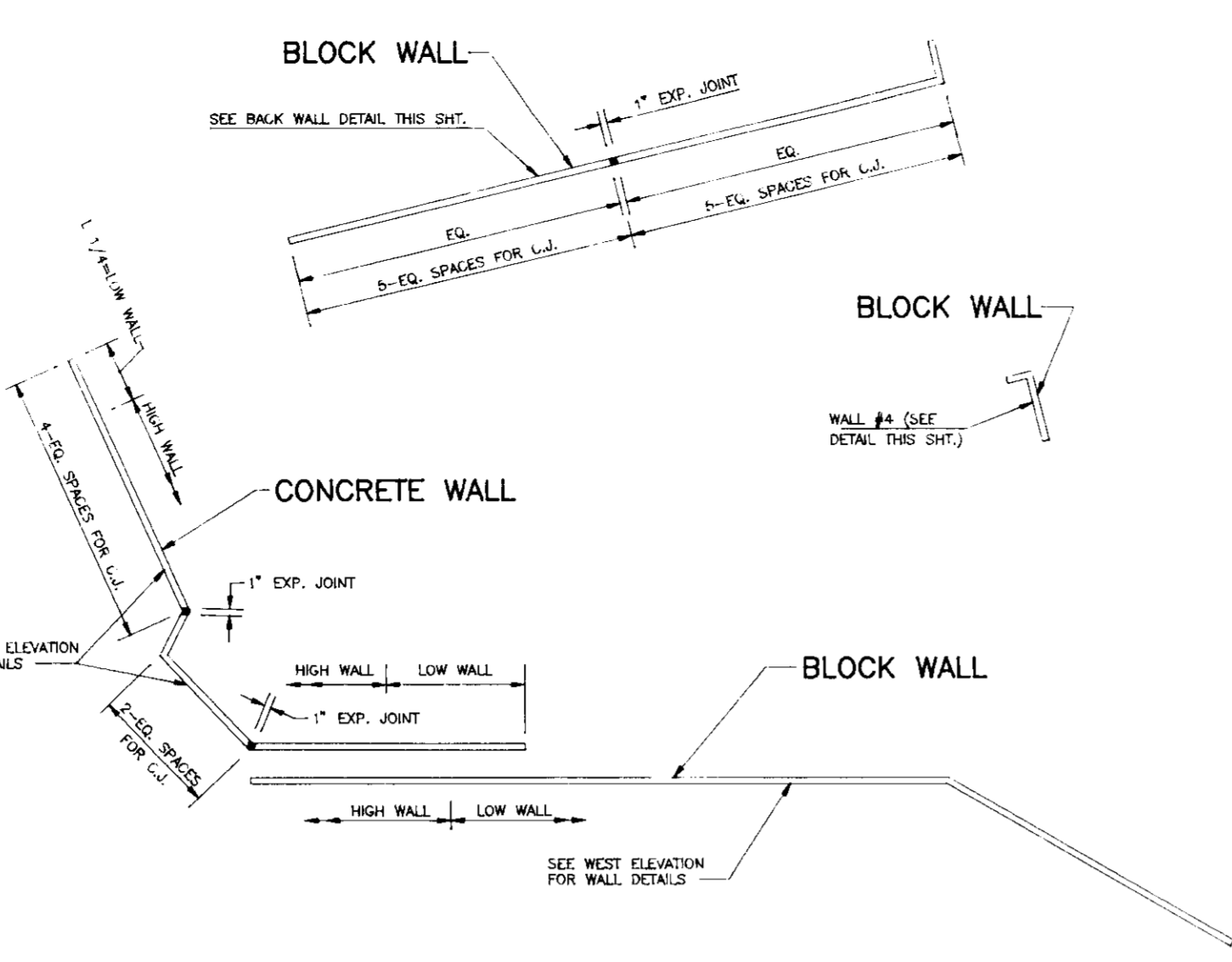
RETAINING WALL SECTION #1: CONCRETE WALL
NOT TO SCALE



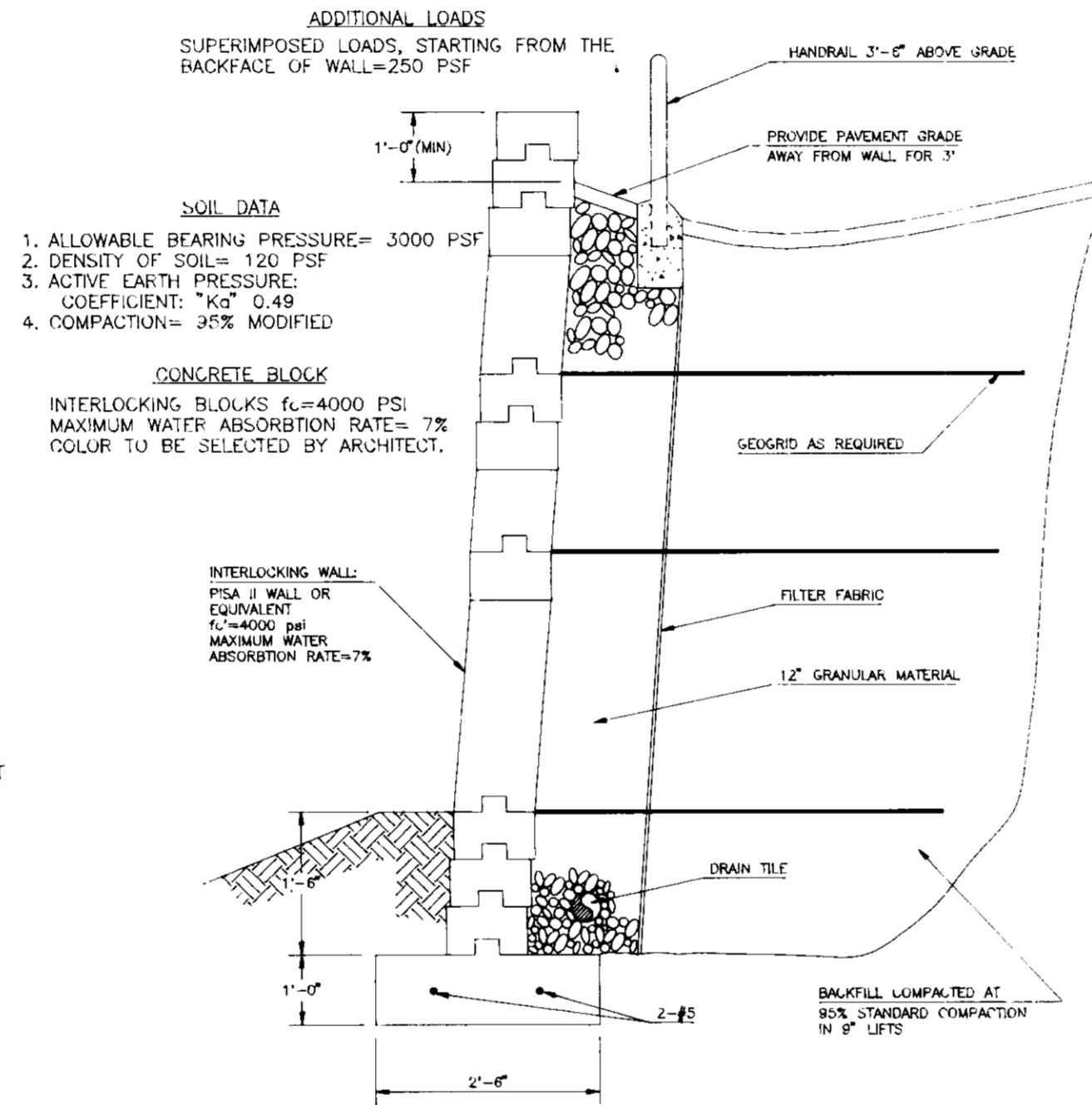
RETAINING WALL SECTION #2: BLOCK WALL
NOT TO SCALE

	hw	THICKNESS OF WALL & BASE 'A'	HEEL 'C'	WIDTH OF FOOTING 'W'	BASE REINFORCEMENT				STEM REINFORCEMENT	
					'D' DOWELS	'D' BARS	'D' BARS	'LB' BARS	'M' BARS	'LS' BARS
LOW WALL	6'-6"	1'-0"	4'-3"	6'-4"	#5 @ 16"	#4 @ 12"	#5 @ 18"	#5 @ 14"	-	#4 @ 18"
	8'-6"	1'-0"	5'-7"	8'-3"	#5 @ 9"	#4 @ 12"	#5 @ 9"	#5 @ 14"	-	#4 @ 18"
	10'-4"	1'-2"	6'-8"	9'-10"	#6 @ 9"	#4 @ 9"	#6 @ 9"	#5 @ 14"	#5 @ 18"	#4 @ 18"
HIGH WALL	11'-3"	1'-3"	7'-5"	10'-6"	#6 @ 8"	#5 @ 12"	#6 @ 9"	#5 @ 12"	#6 @ 16"	#4 @ 12"
	13'-6"	1'-6"	9'-4"	13'-8"	#7 @ 8"	#5 @ 12"	#7 @ 10"	#6 @ 14"	#6 @ 16"	#5 @ 18"

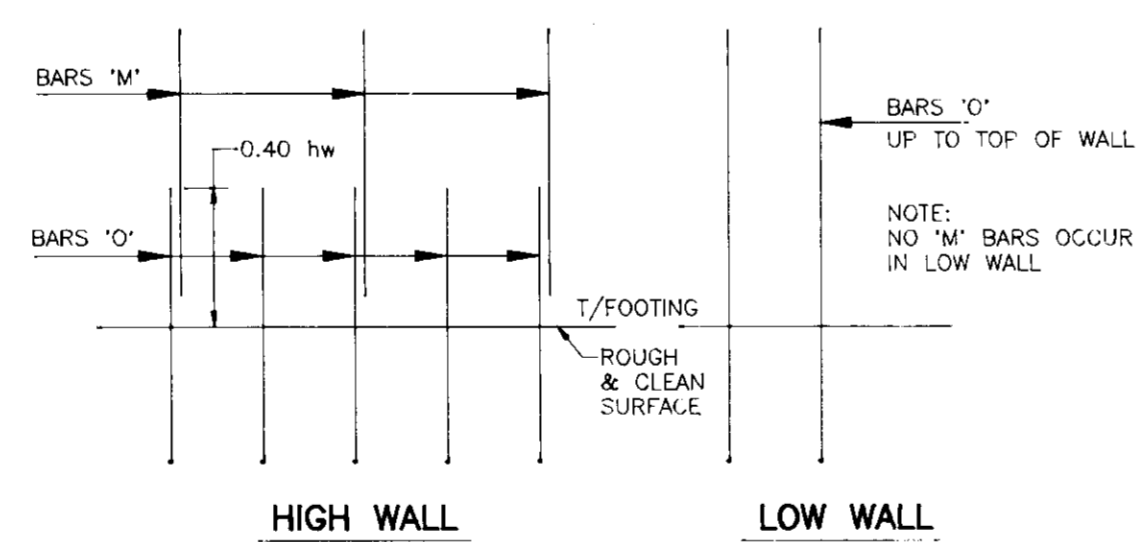
CONCRETE WALL SCHEDULE
NOTE: REFERENCE SECTION #1



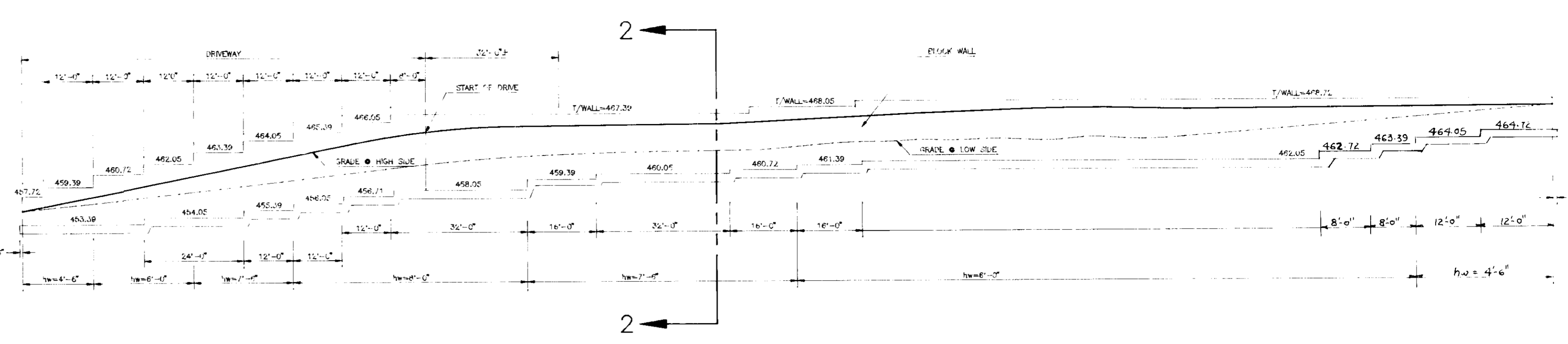
SCHEMATIC WALL LAYOUT PLAN
NOT TO SCALE



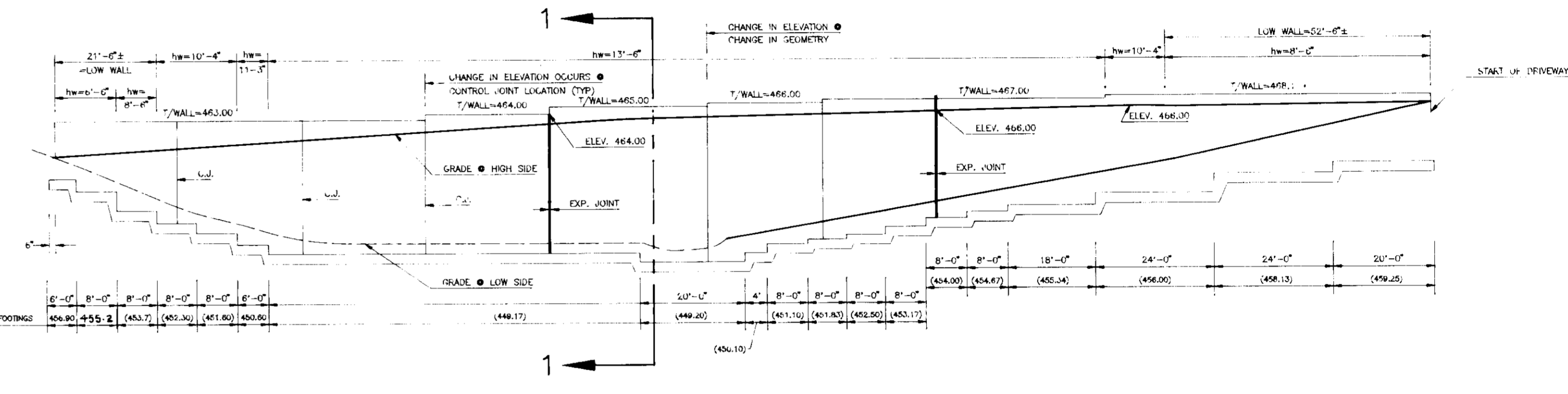
ALTERNATE RETAINING WALL SYSTEM: INTERLOCKING WALL
NOT TO SCALE



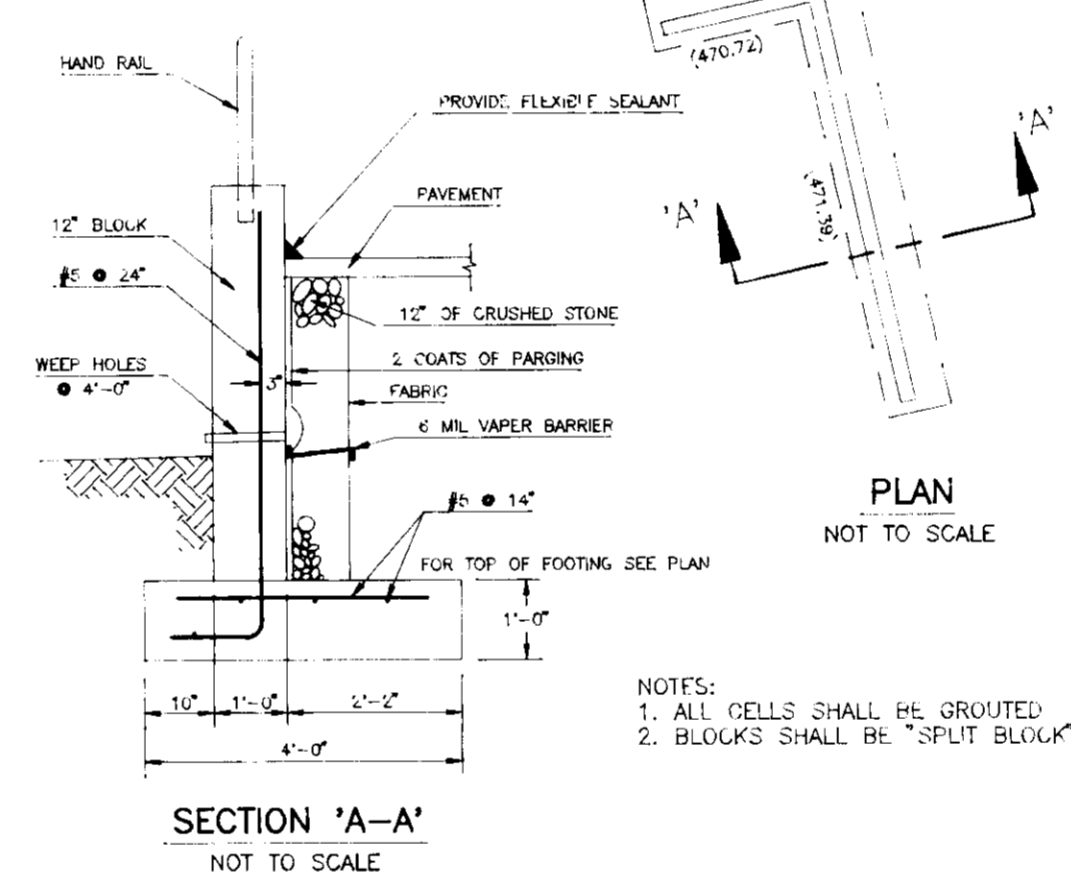
REINFORCING DETAILS
NOT TO SCALE



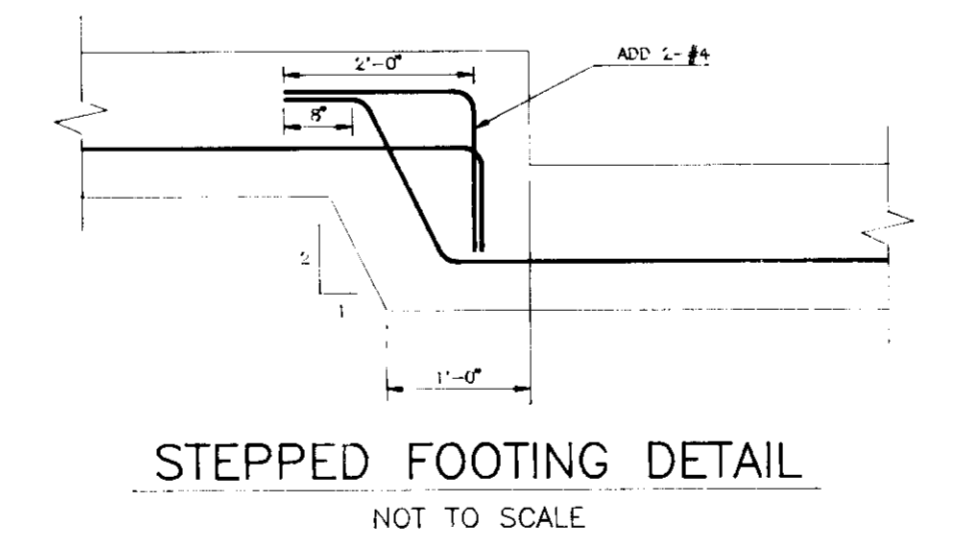
WALL DETAIL AT WEST ELEVATION
SCALE: VERT. 1"=10'; HORIZ. 1"=20'



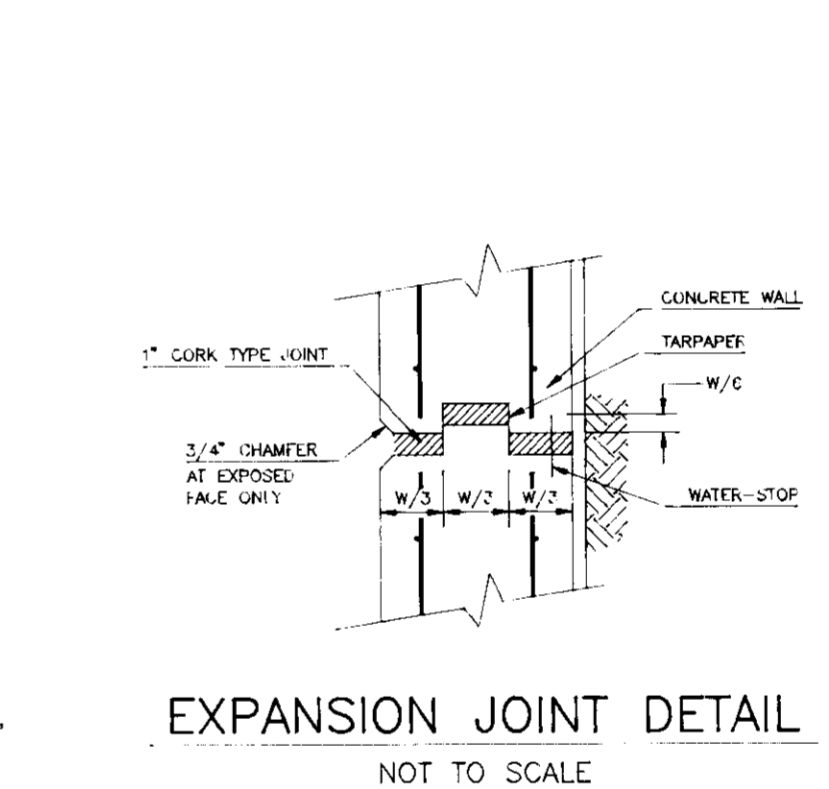
WALL DETAIL AT NORTH-WEST ELEVATION
SCALE: VERT. 1"=10'; HORIZ. 1"=20'



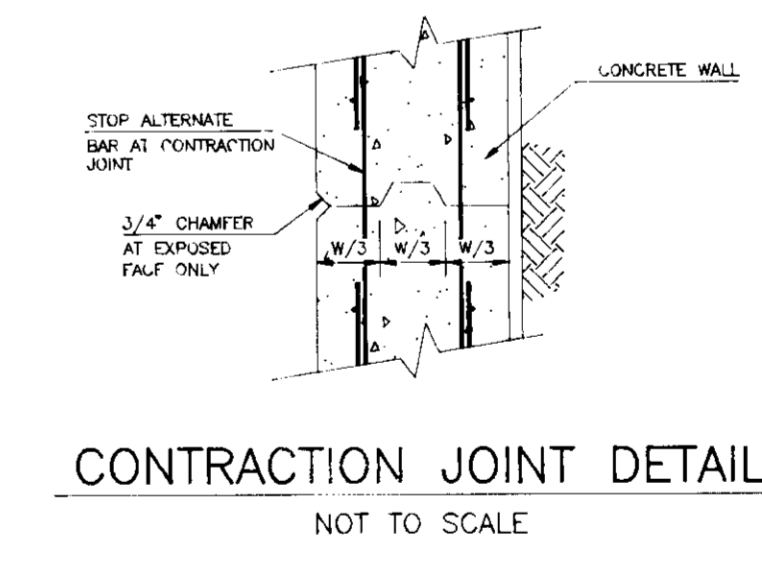
SECTION 'A-A' WALL #4 DETAIL
NOT TO SCALE



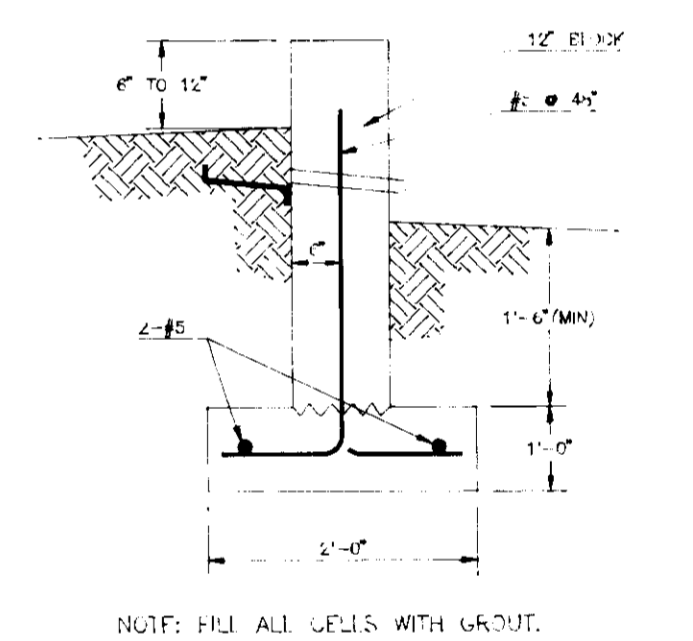
STEPPED FOOTING DETAIL
NOT TO SCALE



EXPANSION JOINT DETAIL
NOT TO SCALE



CONTRACTION JOINT DETAIL
NOT TO SCALE



DETAIL AT BACK WALL SECTION #3
NOT TO SCALE

MEHTA CONSULTANTS, INC.
Structural Engineers

1025 St. Paul Street
Baltimore, MD 21202
Phone: (410)539-3480
Fax: (410)539-3481

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR
DATE: 6/16/94

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
DATE: 6/18/94

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER
DATE: 6-10-94

SUBMISSION NAME HOLWECK SUBDIVISION	SECTION/AREA N/A	PARCEL NUMBER PARCEL 'H'
PLAT NO. 11180	BLOCK NO. 6	ZONE B-2
TAX/ZONE 34	ELECT. DIST. 5th	CENSUS TR. 6051
PRIVATE	PRIVATE	SEWER CODE

NO.	REVISION	DATE

WIN KELLY CHEVROLET
PARCEL 'H' HOLWECK SUBDIVISION
RETAINING WALL DETAILS
AND SPECIFICATIONS

TAX MAP #34 REFERENCE F 94-38, SP 93-14 PARCEL 'H'
5TH ELECTION DISTRICT 12205 HALL SHOP ROAD HOWARD COUNTY, MARYLAND

MARKS-VOGEL ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101 ELICOTT CITY, MARYLAND 21045
TELEPHONE: (410) 461-5828
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DESIGN BY: P. MEHTA
DRAWN BY: D.G.H.
CHECKED BY: P. MEHTA
DATE: MARCH, 1994
SCALE: AS SHOWN
W.C. NO.:
8 SHEET OF 8