

CONTRACT NO. 24-3476-D

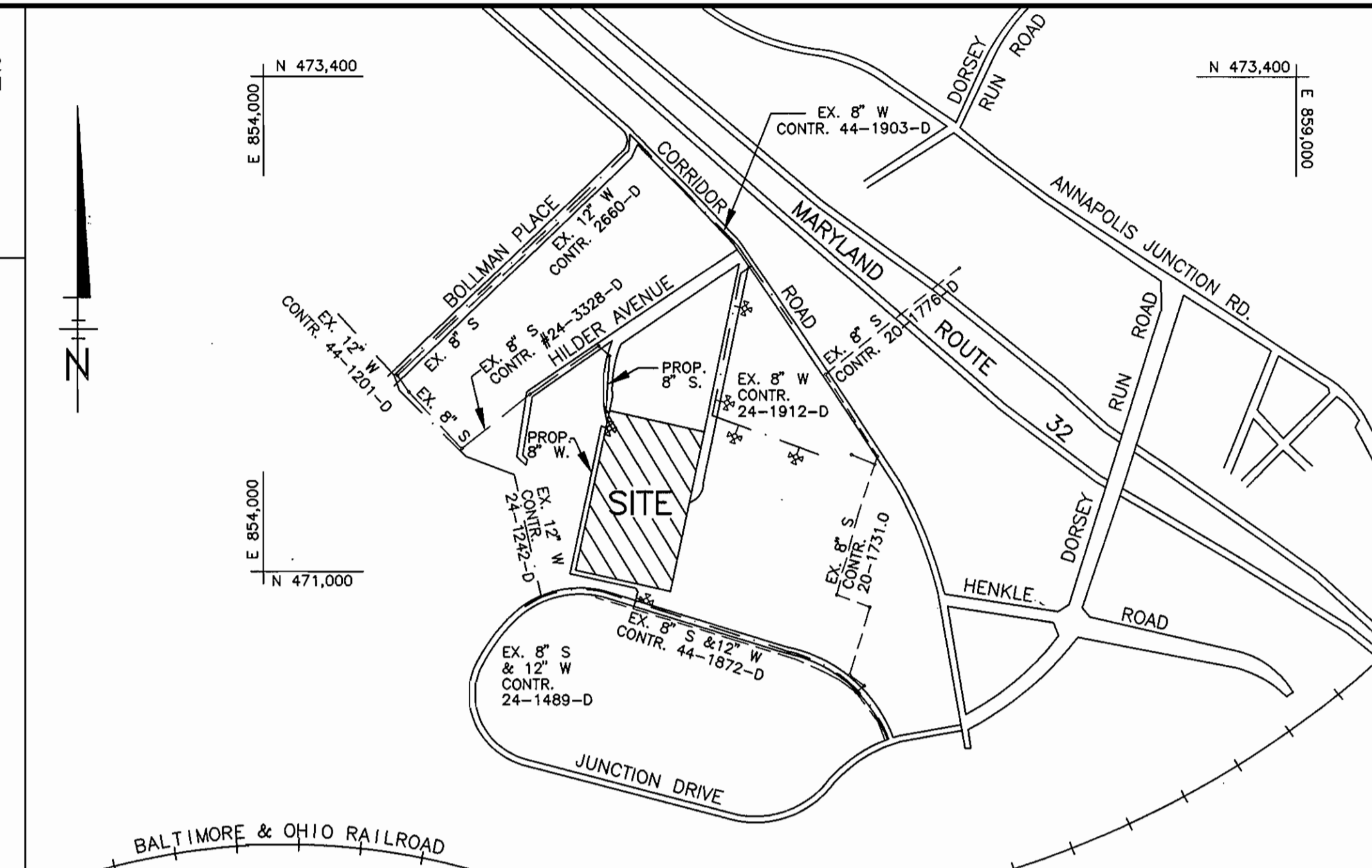
GARRISON INCORPORATED

HOWARD COUNTY, MARYLAND

WATER AND SEWER MAIN EXTENSIONS

DEPARTMENT OF PUBLIC WORKS

USE OF BUILDINGS: COMMERCIAL
 NUMBER OF LOTS: 1
 NUMBER OF WATER HOUSE CONNECTIONS: 2
 NUMBER OF SEWER HOUSE CONNECTIONS: 1
 DRAINAGE AREA: LITTLE PATUXENT
 TREATMENT PLANT SERVICE AREA: LITTLE
 PATUXENT WATER RECLAMATION PLANT,
 SAVAGE, HOWARD COUNTY.
 WATER CODE: CD4
 SEWER CODE: 4110000
 WATER PRESSURE ZONE: 400'
 WATER TEST GRADIENT: .550'



VICINITY MAP
 SCALE: 1" = 600'

GENERAL NOTES

- PART I**
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
 - ALL VERTICAL CONTROLS ARE BASED ON A BOUNDARY SURVEY PERFORMED BY JOHN E. HARMS JR. & ASSOCIATES, INC. DATED MARCH 15, 1990, VERIFIED AUGUST 9, 1995.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (+) AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION: 531-5533
 BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES: 850-4620
 BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL: 787-9088
 MISS UTILITY: 1-800-257-7777
 COLONIAL PIPELINE CO.: 795-1390
 BUREAU OF UTILITIES, HOWARD CO. DEPT. OF PUBLIC WORKS: 313-4900
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- PART II-WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- PART III-SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. AND P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G552. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

LEGEND

- PROPERTY LINE
- 240----- EXISTING CONTOUR
- EX. W ----- EX. CONC. CURB & GUTTER
- EX. S ----- EXISTING WATER
- EXISTING SEWER
- EXISTING TREE LINE
- EX. CHAIN LINK FENCE
- EXISTING EDGE MACADAM PAVEMENT
- EXISTING POWER POLE
- 240----- PROPOSED CONTOUR
- 8" W----- PROPOSED CONC. CURB & GUTTER
- 8" S----- PROPOSED WATER
- S----- PROPOSED SEWER
- SILT FENCE
- IRON PIPE FOUND
- CONC. MONUMENT FOUND

TABLE OF CONTENTS	
SHT. NO.	DESCRIPTION
1	COVER SHEET & GENERAL NOTES
2	PLAN VIEW
3	WATER & SEWER PROFILES

QUANTITIES

ITEM	QUANTITY ESTIMATED	AS-BUILT		
		QUANTITY	TYPE	MANUFACTURER/SUPPLIER
8" SEWER MAIN	106 L.F.	102 L.F.	PVC	J.M. MANUFACTURING
6" S.H.G.	30 L.F.	28 L.F.	PVC	J.M. MANUFACTURING
SANITARY MANHOLE	1 EA.	1 EA.	PRECAST CONCRETE	ATLANTIC CONCRETE PROD.
8" WATER MAIN	800 L.F.	806 L.F.	DIP	U.S. PIPE
6" WATER MAIN	8 L.F.	8 L.F.	DIP	"
4" WATER MAIN	4 L.F.	4 L.F.	DIP	GRIFFIN PIPE PRODUCTS
2" WATER MAIN	6 L.F.	6 L.F.	K COPPER	HOWELL METALS
8" VALVE	4 EA.	4 EA.	CAST IRON GATE VALVE	U.S. PIPE
6" VALVE	1 EA.	1 EA.	CAST IRON GATE VALVE	"
6" FIRE HYDRANT	1 EA.	1 EA.	CAST IRON	MULLER CO.
8"x6" REDUCER	1 EA.	1 EA.	DIP	GRIFFIN PIPE PRODUCTS
8"x4" REDUCER	2 EA.	2 EA.	DIP	"
4"x2" REDUCER TAPPED CAP	2 EA.	2 EA.	DIP	"
2" METER	2 EA.	2 EA.	"	"

NAME OF UTILITY CONTRACTOR: RONKIN CONSTRUCTION
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

ACAD FILE = GARRISON1.DWG

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert Berman 12-5-95
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

John E. Harms, Jr. 12/5/95
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

JOHN E. HARMS, JR. & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 90 GOV. RITCHIE HIGHWAY
 PASADENA, MARYLAND
 410-647-6000



DES: D.L.M.

DRN: D.L.M./S.D.K.

CHK: R.M.F.

DATE: 11-95

BY	NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 48 BLOCK NO. 13

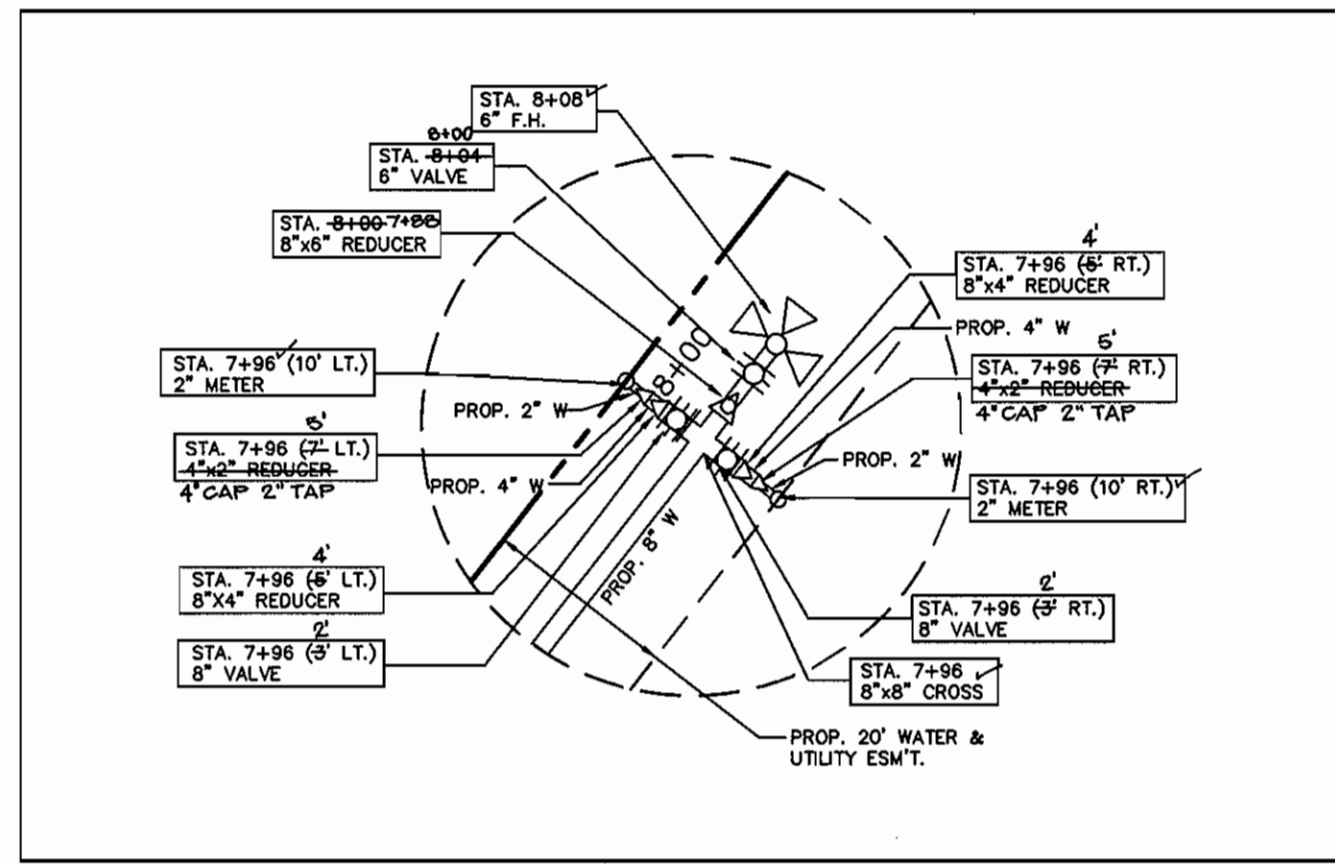
GARRISON INCORPORATED
 CONTRACT NO. 24-3476-D

TAX MAP 48
 ELECTION DISTRICT 6

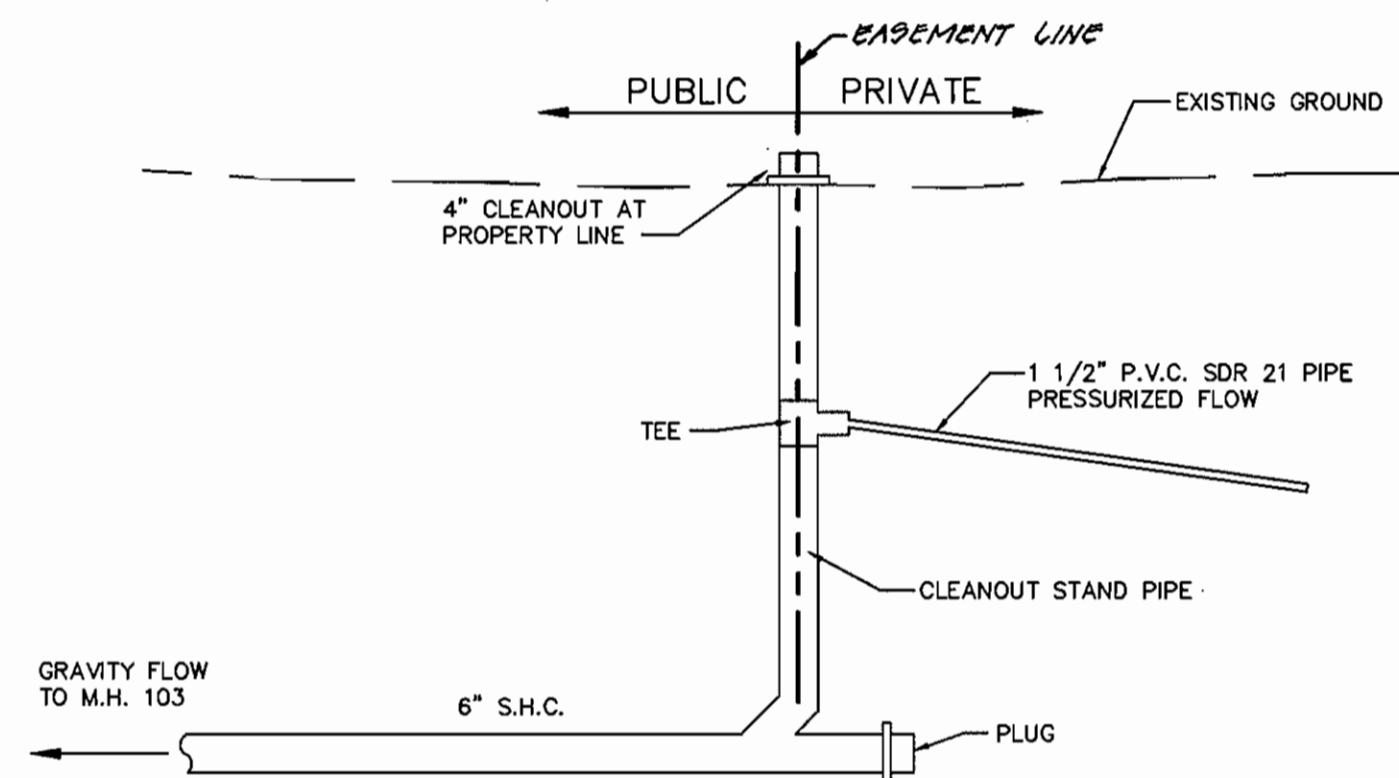
PARCEL 75
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 3



INSET DETAIL "A"
SCALE: 1" = 20'



HOUSE CONNECTION DETAIL
NOT TO SCALE

TRAVERSE INFO		BENCH MARKS	
HO. CO. #1844001	N 469916.562	BENCH MARK "B"	ELEV. 233.08
	E 858380.949	IRON PIPE	
HO. CO. #1843007	N 469424.430		
	E 857132.358		
J.E.H. TP-1	N 471567.720		
	E 855604.807		
J.E.H. TP-2	N 471360.813		
	E 855562.292		
J.E.H. TP-3	N 471192.769		
	E 856034.755		

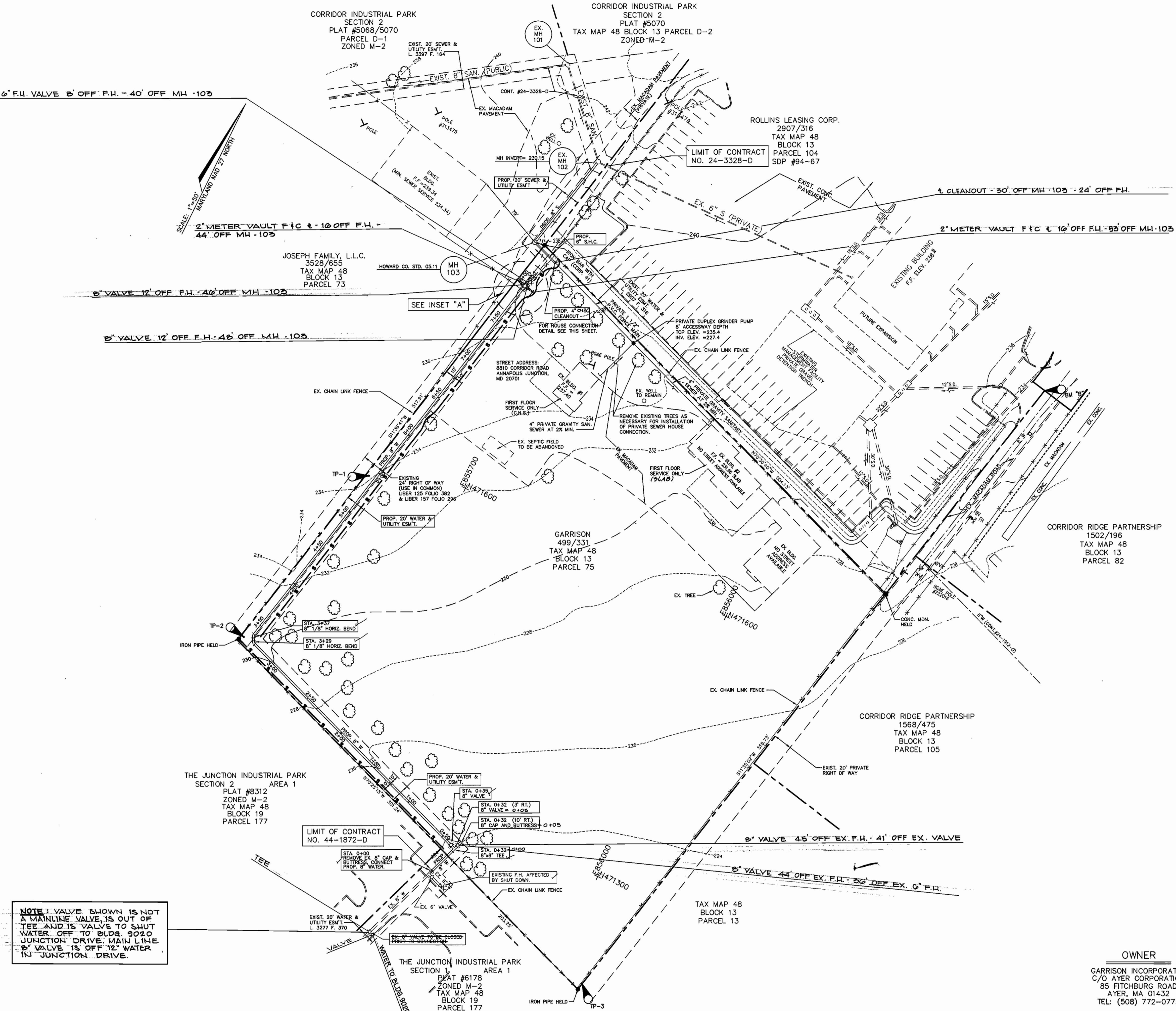
REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS

Patricia S. [Signature] 12/2/95
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREA.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREA.

NOTE: VALVE SHOWN IS NOT A MAINLINE VALVE, IS OUT OF TEE AND IS VALVE TO SHUT WATER OFF TO BLDG. 9020 JUNCTION DRIVE. MAIN LINE 8" VALVE IS OFF 12" WATER IN JUNCTION DRIVE.

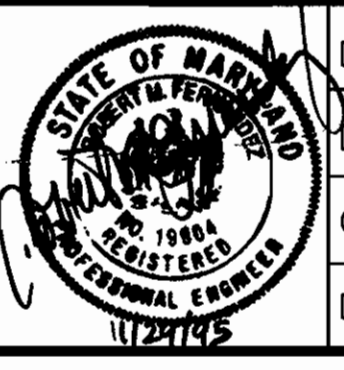


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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert [Signature] 12-5-95
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
John [Signature] 12/28/95
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

JOHN E. HARMS, JR. & ASSOCIATES, INC.
CONSULTING ENGINEERS
90 GOV. RITCHIE HIGHWAY
PASADENA, MARYLAND
410-647-8000



DES: D.L.M.					
DRN: D.L.M./S.D.K.					
CHK: R.M.F.					
DATE: 11-95	BY NO.	REVISION	DATE	600' SCALE MAP NO. 48	BLOCK NO. 13

WATER AND SEWER PLAN

GARRISON INCORPORATED
CONTRACT NO. 24-3476-D
TAX MAP 48 ELECTION DISTRICT 6
PARCEL 75
HOWARD COUNTY, MARYLAND

OWNER
GARRISON INCORPORATED
C/O AYER CORPORATION
85 FITCHBURG ROAD
AYER, MA 01432
TEL: (508) 772-0775

SCALE
1" = 50'
SHEET
2 OF 3

- 1) 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).
- 2) ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1; (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/BASINS SHALL BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1 CHAPTER 12. STORM DRAINAGE OF THE HOWARD COUNTY DESIGN MANUAL.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOIL TEMPORARY SEEDING AND MULCHING. TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6) 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.
- 7) SITE ANALYSIS

TOTAL AREA OF SITE	N/A
AREA DISTURBED	0.425 AC. ±
AREA TO BE ROOVED OR PAVED	0.049 AC. ±
AREA TO BE VEGETATIVELY STABILIZED	0.376 AC. ±
TOTAL CUT	N/A
TOTAL FILL	N/A
OFF-SITE WASTE/BORROW AREA LOCATION	N/A

8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING, 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 RYE (8.2 LBS./1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 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 SOO.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GAL. PER ACRE (6 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 3 FEET OR HIGHER, USE 340 GAL. PER ACRE (6 GAL./1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT, LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: USE ONE OF THE FOLLOWING SCHEDULES:

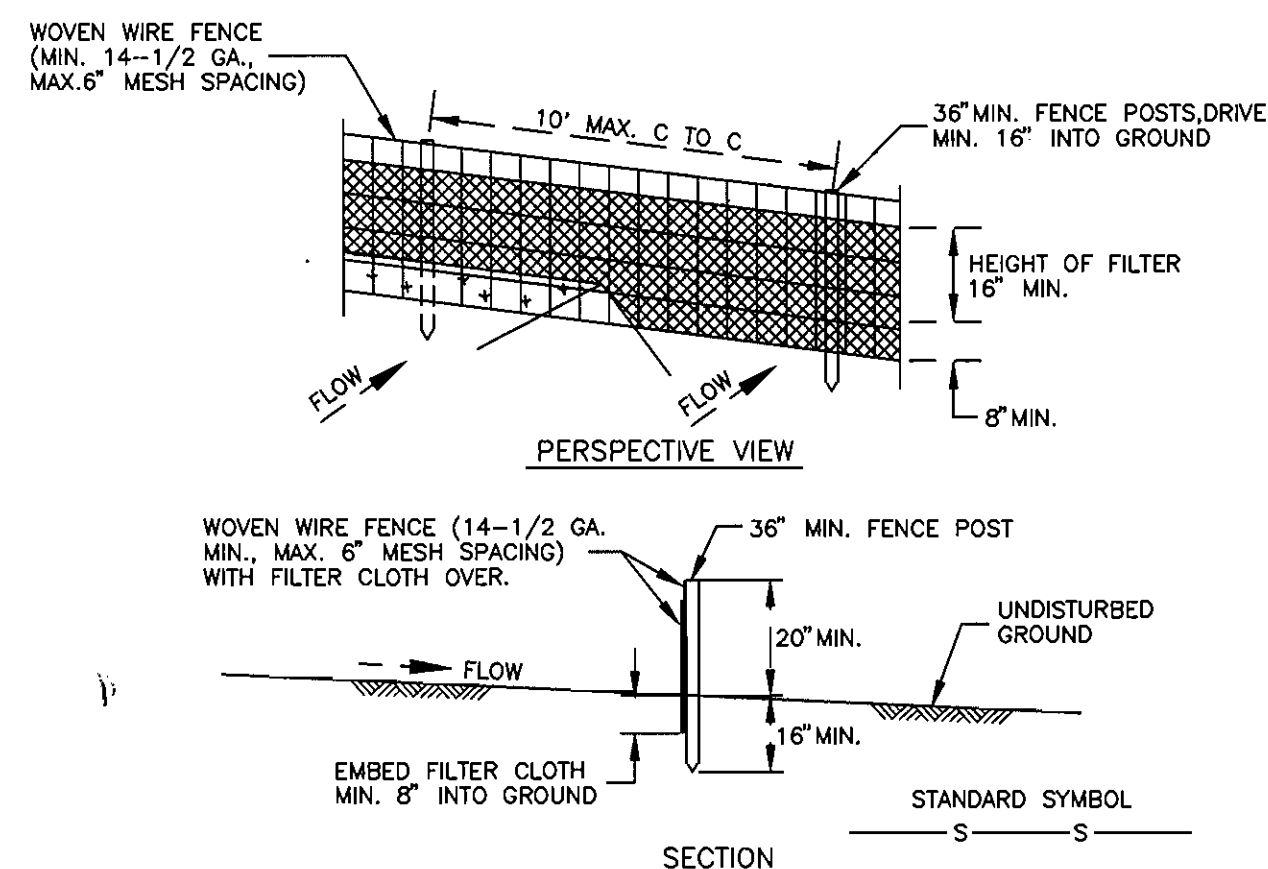
1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER 3 INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 20-0-0 UREA-FORM FERTILIZER (9 LBS./1000 SQ. FT.).

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 3 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 SOO. 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 (10-90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GAL. PER ACRE (6 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 3 FEET OR HIGHER, USE 340 GAL. PER ACRE (6 GAL./1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS, AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.



SILT FENCE DETAILS
NOT TO SCALE

CONSTRUCTION NOTES FOR FABRICATED 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.

- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
- FENCE: WOVEN WIRE, MIN. 14-1/2 GA., 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
- PREFABRICATED UNIT: GEOFAB, ENVROFENCE, OR APPROVED EQUAL.

SEQUENCE OF CONSTRUCTION

1. NOTIFY HOWARD COUNTY BUREAU OF INSPECTION AND PERMITS (992-2437) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
2. INSTALL SILT FENCE AS SHOWN ON PLAN.
3. CONSTRUCT SEWER LINE.
4. CONSTRUCT WATER LINE AND APPURTENANCES.
5. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - a. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, SLOPES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - b. 14 DAYS FOR ALL OTHER DISTURBED AREAS.
6. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL STRUCTURES.

DEVELOPER'S CERTIFICATE

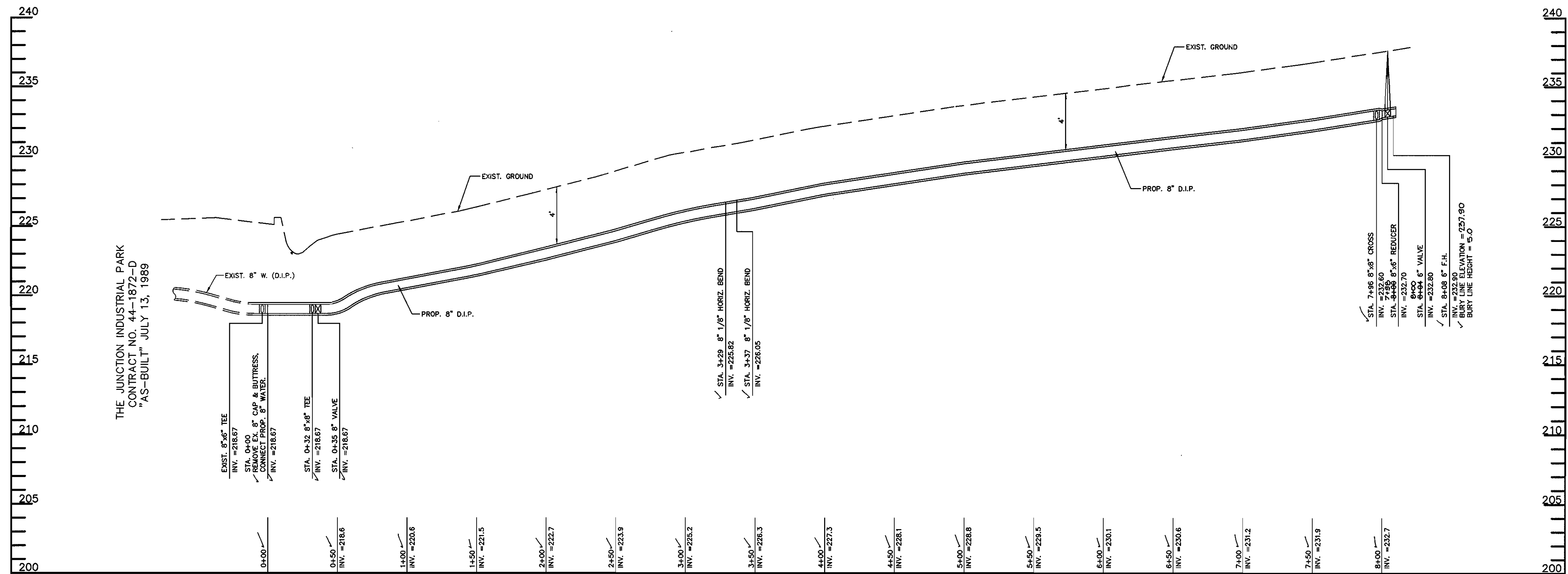
"I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

Robert W. Smith V.P. 12-22-95
SIGNATURE OF DEVELOPER DATE

ENGINEERING CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

Robert W. Smith 12/21/95
SIGNATURE OF ENGINEER DATE



WATER PROFILE

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

REVIEWED FOR HOWARD COUNTY S.C.D. AND METS TECHNICAL REQUIREMENTS
Robert W. Smith 12/21/95
U.S. SOIL CONSERVATION DISTRICT DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT
Robert W. Smith 12/21/95
DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREA.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	JOHN E. HARMS, JR. & ASSOCIATES, INC. CONSULTING ENGINEERS 90 GOV. RITCHIE HIGHWAY PASADENA, MARYLAND 410-647-8000	DES: D.L.M. DRN: D.L.M./S.D.K. CHK: R.M.F. DATE: 11-95	BY NO. REVISION DATE	60' SCALE MAP NO. 48 BLOCK NO. 13	GARRISON INCORPORATED CONTRACT NO. 24-3476-D	AS SHOWN SHEET 3 OF 3
TAX MAP 48 ELECTION DISTRICT 8		PARCEL 75 HOWARD COUNTY, MARYLAND		© JOHN E. HARMS, JR. & ASSOCIATES, INC. W.O. #04-94-017A			