ALPHA RIDGE LANDFILL WATER EXTENSION

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN APRIL & OCTOBER, 2007 BY KCI TECHNOLOGIES
- 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/' 91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATION NO. ALPHA 3, BASE A, BASE F AND 16DA. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE REBAR WITH DISC AND CONC. COLUMN WITH DISC.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. II THE EVENT THE CONTRACTOR'S WORK REQUIRE'S THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES
- 6. FOR DETAILS NOT SHOWN ON THE DRAWING, 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
- 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PITS. 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
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133	s -
BGE (CONSTRUCTION SERVICE	S)410-850-4620	
BGE (EMERGENCY)	410-685-1400	
BUREAU OF UTILITIES	410-313-4900	
	410-795-1390	
	1-800-257-7777	
	ION410-531-5533	
	1-800-743-0033	/ 410-224-9210
TRANSCON	410-984-3442	

- 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND
- 10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION, PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUTTING OR BORING / JACKING OF ANY 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.

WATER GENERAL NOTES

- 1. ALL DUCTILE IRON PIPES TO BE USED ON THE PUBLIC WATER SYSTEM SHALL BE CLASS 54. DUCTILE IRON FITTINGS SHALL MEET THE REQUIREMENTS OF THE HOWARD COUNTY DESIGN MANUAL VOLUME IV-STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND SHALL BE EXTERIOR EPOXY COATED IN ACCORDANCE WITH AWWA C116.
- 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 5. FIRE HYDRANTS SHALL BE SET TO BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 7. WATER MAINS SHALL BE FILLED WITH WATER AND BROUGHT TO 150 PSI FOR 2 HOURS, VARYING 5 PSI. SEE HOWARD COUNTY DESIGN MANUAL.

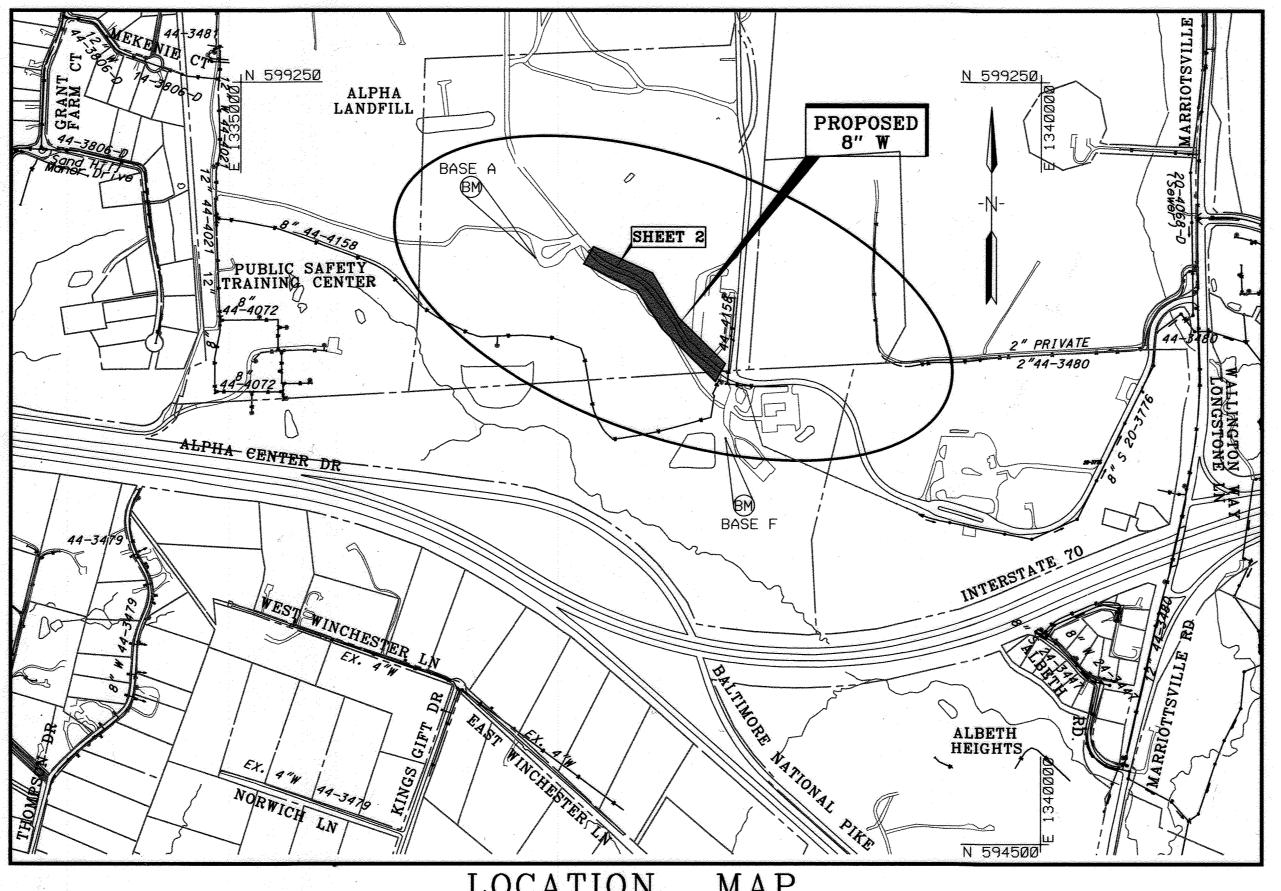
SUGGESTED SEQUENCE OF CONSTRUCTION FOR WATER

- CONSTRUCT NEW 8" DIP WATER MAIN AND ASSOCIATED APPURTENANCES FROM STA. 0+00 TO STA. 11+55. RESTRAIN JOINTS AS SHOWN ON THE DRAWING (SEE SHEET 2 OF 3).
- TEST THE NEW WATER MAIN PER HOWARD COUNTY STAND SPECIFICATIONS.
- CONNECT NEW 8" DIP WATER MAIN TO EX. 8" WATER MAIN WITH NEW 8"X8" CROSS AT STA. 11+22. COORDINATE TEMPORARY SHUTDOWN WITH ALPHA RIDGE LANDFILL FOR CONNECTION.
- RESTORE AREA.

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECTS No. W-8288 CONTRACT NO. 14-4588



SCALE: 1"= 600'

HORIZONTAL AND VERTICAL CONTROL BASED ON MARYLAND NAD83(91) (HORIZONTAL) AND NAVD88 (VERTICAL) DATUM. HOWARD COUNTY GEODETIC SURVEY CONTROL NUMBERS:

	A comment of the second of the control of the contr
NO. BASE A	NO. BASE F
N 598156.23	N 597030.50
E 1336841.78	E 1338031.40
ELEV. 564.87	ELEV. 512.93

INDEX OF SHEETS

DESCRIPTION SHEET No.

... TITLE SHEET

·· 8" WATER LINE PLAN AND PROFILE

· EROSION AND SEDIMENT CONTROL NOTES AND DETAILS WATER MAIN PLAN AND PROFILES - COMPOST FACILITY PHASE IIA . WATER MAIN PLAN AND PROFILE -COMPOST FACILITY PHASE IIB

WATER MAIN PIPE PLAN AND PROFILE - COMPOST FACILITY PHASE IIC (FUTURE)

ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIEF
8" WATER	L.F.	1157	1151	BRS/GRIFFIN PIPI
8" RSGV	EACH	4	4	BRS/MUELLER CO

RESTORATION SCHEDULE				
LOCATION	DISTANCE (FT.)	TYPE		
UNPAVED PRIVATE ROAD (SH. 2 OF 3)	17	GRAVEL		
PAVED PRIVATE ROAD (SH. 2 OF 3)	44	ASPHALT		
WL STA. 0+00 TO STA. 11+57	1157	MULCH & SEEDING		

TYPE OF BUILDING:

NUMBER OF PARCELS:

DRAINAGE AREA: PRESSURE ZONE: LITTLE PATUXENT 730′

N/A

N/A

WATER TEST GRADIENT

1000'

LEGEND

FIRE HYDRANT — LOD — LIMIT OF DISTURBANCE WATER HOUSE CONNECTION SEWER HOUSE CONNECTION TEST PIT LOCATION BORING LOCATION DECIDUOUS TREE CONIFEROUS TREE

TRAVERSE POINT

EXISTING FIRE HYDRANT EXISTING VALVE EXISTING WATER MAIN ——G—— EXISTING GAS MAIN ---OH--- EXISTING OVERHEAD ELECTRIC EXISTING UNDERGROUND ELECTRIC EXISTING MANHOLE --- WUS -- WATERS OF THE U.S. - WETLAND BUFFER

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.: 28911 EXPIRATION DATE: 1/11/10

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND



	DES: CLO	WA can also a second and a second a second and a second a	<u> </u>				
	DRN: CK						TITLE
	CHK: TWW	CVH	2	REVISIONS TO INCLUDE WATER SERVICE TO COMPOST FACILITY	04/2072		
	DATE:	LFN	Δ	AS BUILT - DBW 1/6/09			
i de la constante de la consta	DEC, 2007	BY	NO.	REVISION	DATE	600' SCALE M	AP NO. 16

TITLE SHEET

BLOCK NO. _ 9 & 10

AS-BUILT

DATE 1/6/09

ALPHA RIDGE LANDFILL WATER EXTENSION

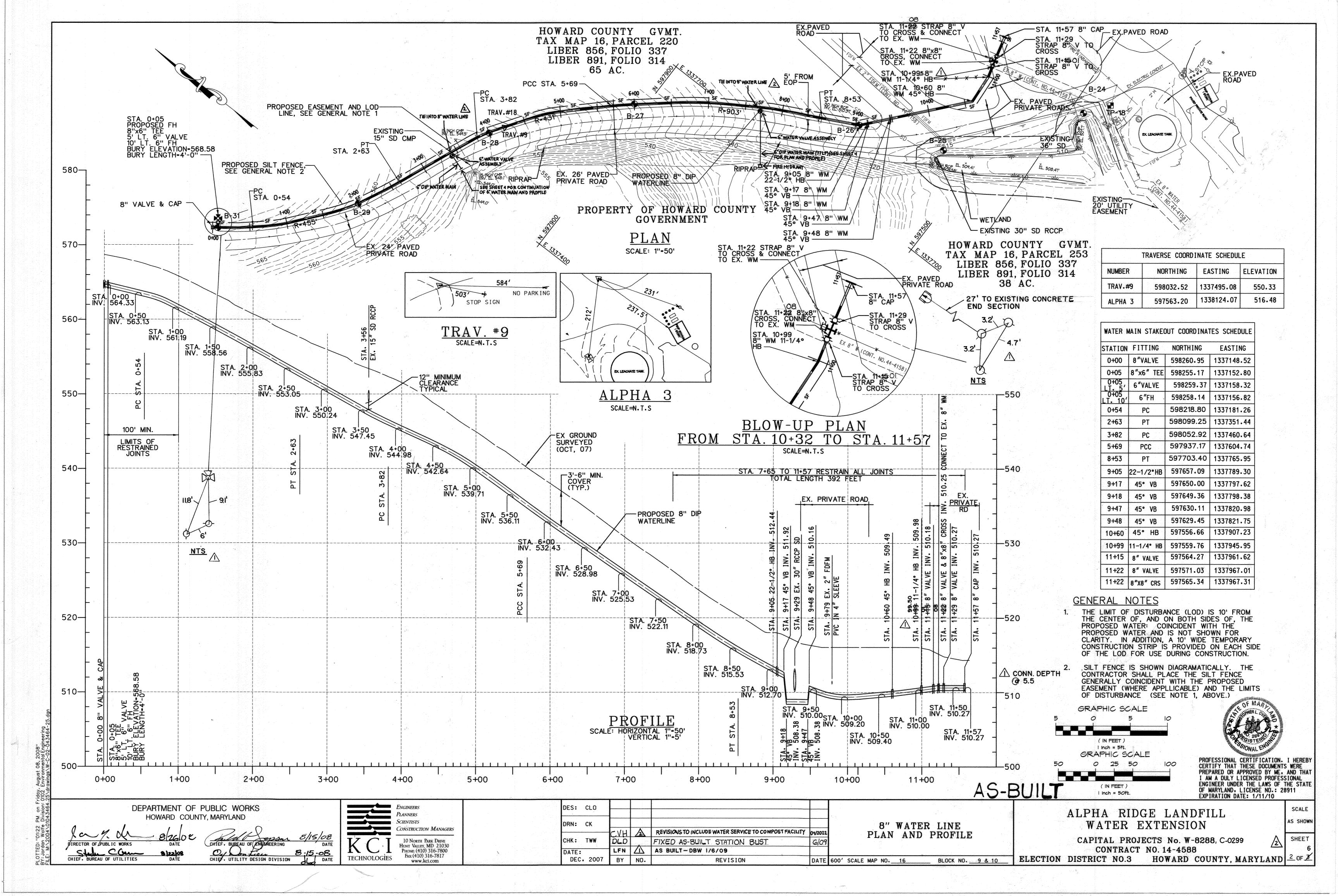
CAPITAL PROJECTS No. W-8288, C-0299 **CONTRACT NO. 14-4588** ELECTION DISTRICT NO.3

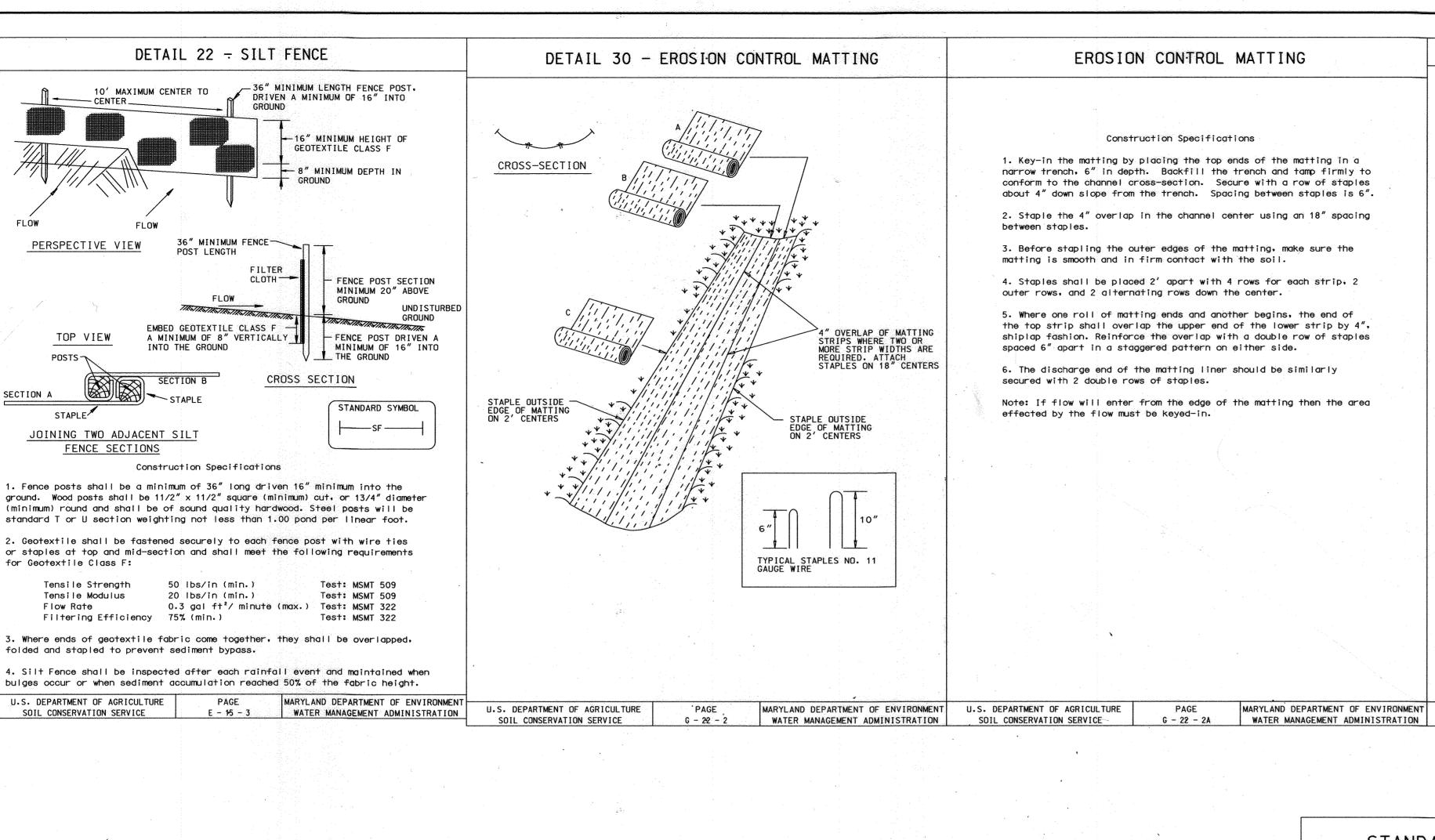
SHEET

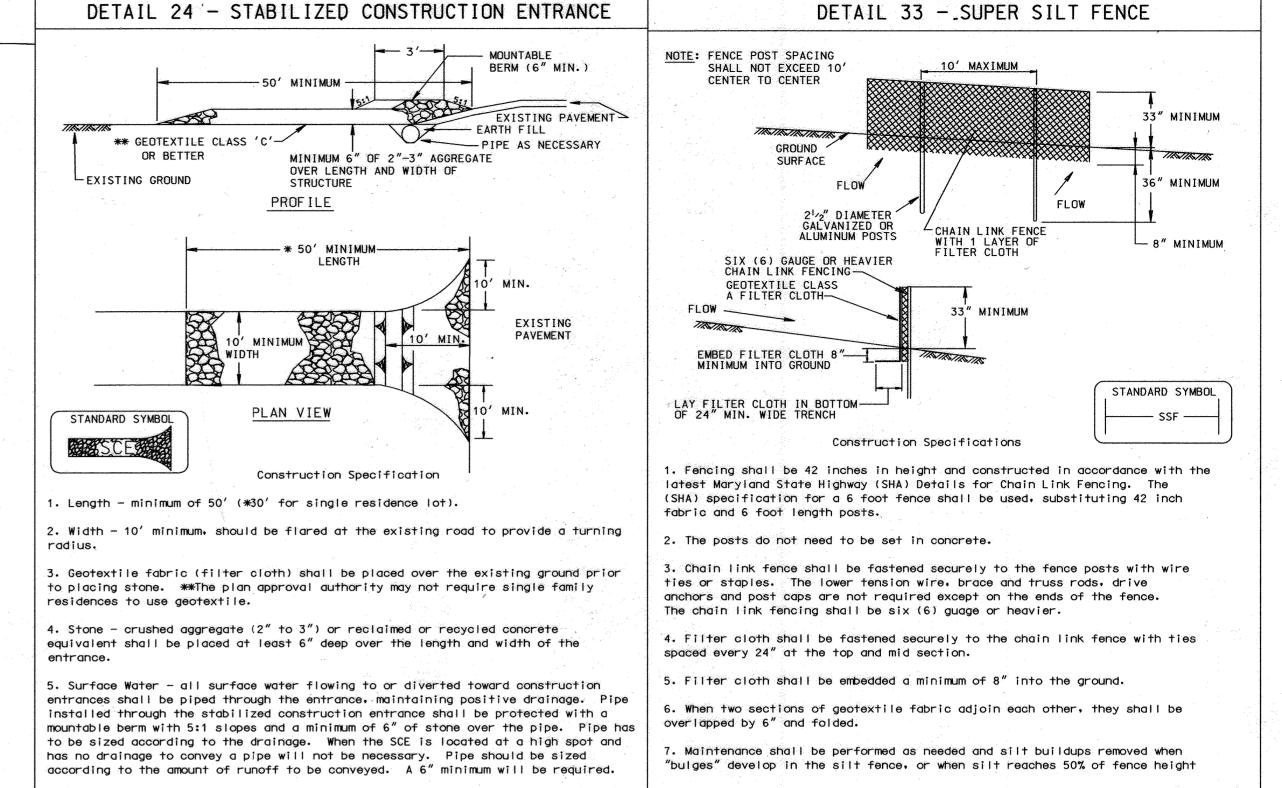
SCALE

AS SHOWN

HOWARD COUNTY, MARYLAND 100 A







MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

WATER MANAGEMENT ADMINISTRATION

NOTE: SCE TO BE INSTALLED AT THE DIRECTION OF THE SOIL CONSERVATION INSPECTOR.

6. Location - A stabilized construction entrance shall be located at every point

where construction traffic enters or leaves a construction site. Vehicles leaving

the site must travel over the entire length of the stabilized construction entrance

F - 17 - 3

PERMANENT SEEDING NOTES

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

EEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING. DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1) PREFERRED - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT.)
AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14LBS/1000 SQ FT.) BEFORE SEEDING.
HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT.). 2)ACCEPTALBE - 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 OF DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT.) OF UNROTTED 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 RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED 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.).

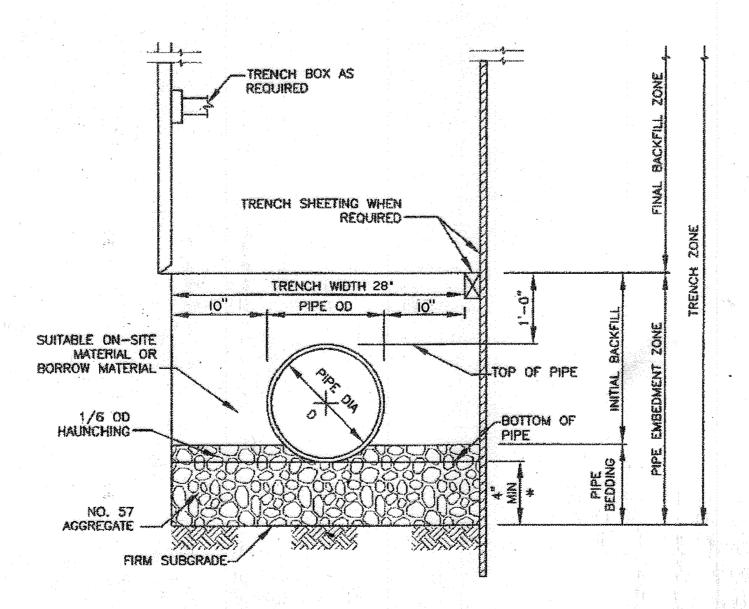
SEEDING: - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS

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 (5 GAL/1000 SQ FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ FT.) FOR ANCHORING.

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

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.
- 2. LAYOUT ALIGNMENT AT SITE. (2 DAYS)
- 3. INSTALL SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN 4. EXCAVATE DITCH TO THE GRADE SPECIFIED ON THE PROFILE,
- INSTALL SEWER MAIN AND BACK FILL TRENCH AND STABILIZE IN KIND (45 DAYS) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 25' OF PIPE LENGTH OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- 5. CLEAN UP CONSTRUCTION SITE. (1 DAY)
- 6. REMOVE SEDIMENT CONTROL DEVICES AFTER PERMISSION IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR. (1 DAY)



* FOR TRENCHES IN ROCK, MINIMUM BEDDING DEPTH IS 6 INCHES. FOR RCP 96 INCHES AND GREATER, MINIMUM BEDDING DEPTH IS 12 INCHES.

STANDARD SEDIMENT CONTROL NOTES

U.S. DEPARTMENT OF AGRICULTURE

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1855).
- ALL VEGETIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISION OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COPLETED WITHIN:
- A) 7 CALENDER 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.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (SEC. G20.0) FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING AND MULCHING. TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR 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: 0.6 ACRES TOTAL AREA OF SITE AREA DISTURBED N/A AREA TO BE ROOFED OR PAVED N/A AREA TO BE VEGATATIVELY STABILIZED - ACRES TOTAL CUT _ CU. YDS. N/A TOTAL FILL _ CU. YDS. OFFSITE 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 THE DISTURBANCE.
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. 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.
- 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

12. CONTRACTOR SHALL PLACE EXCAVATED MATERIALS ON UPHILL SIDE OF TRENCH AND PLACE SILT FENCE ON DOWNHILL SIDE OF TRENCH.

AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODING ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT. BUREAU OF ENGINEERING DATE DEPARTMENT OF PUBLIC WORKS



THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE

ENGINEER'S CERTIFICATION

AND SEDIMENT CONTROL REPRESENTS A PRACTICAL

SOIL CONSERVATION DISTRICT.

*I/WE CERTIFY THAT THIS PLAN FOR EROSION

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

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

BEST MANAGEMENT PRACTICE (BMP) NOTES

IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100 YEAR FLOODPLAIN.

PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLANDS BUFFERS, WATERWAYS,

PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED USE CLEAN MATERIAL FREE OF

1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR

3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL

WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER

2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY

4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO

5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT MODIFICATION OF THE 100 YEAR FLOODPLAIN IN EXCESS OF THAT

6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100 YEAR

7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.) AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL

WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE,

BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION.

8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND

9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY

10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT

11. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT

THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO

KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION

ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY

JSE I WATERS: IN STREAM WORK SHALL NOT BE CONDUCTED DURING THE

PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.

LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.

FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.

THE 100 YEAR FLOODPLAIN.

DELETERIOUS SUBSTANCE.

ACTIVITIES HAVE BEEN COMPLETED.

THE CLASSIFICATION OF THE STREAM:

IMPOUND WATER.

DEVELOPER'S CERTIFICATION

*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 DEPART-

MENT OF THE ENVIRONMENT APPROVED TRAINING

PROGRAM FOR THE CONTROL OF SEDIMENT

AS-BUIL

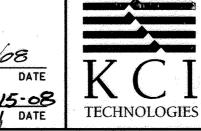
DATE _ 1/6/09

THE WASHING OF DEBRIS INTO THE WATERWAYS.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

1a CHIEF, BUREAU OF UTILITIES

Bild to spor 8/15/08 CHIEF, BUREAU OF ENGINEERING CHIEF. UTILITY DESIGN DIVISION



ENGINEERS Pianners SCIENTISTS CONSTRUCTION MANAGERS 10 NORTH PARK DRIVE HUNT VALLEY, MD 21030 PHONE: (410) 316-7800

Fax: (410) 316-7817

DES: CLO DRN: CK CHK: TWW REVISIONS TO INCLUDE WATER SERVICE TO COMPOST FACILITY AS BUILT-DBW 1/G/09 DLD DATE: DEC. 2007 BY NO. REVISION DATE 600' SCALE MAP NO. 16

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

BLOCK NO. 9 & 10

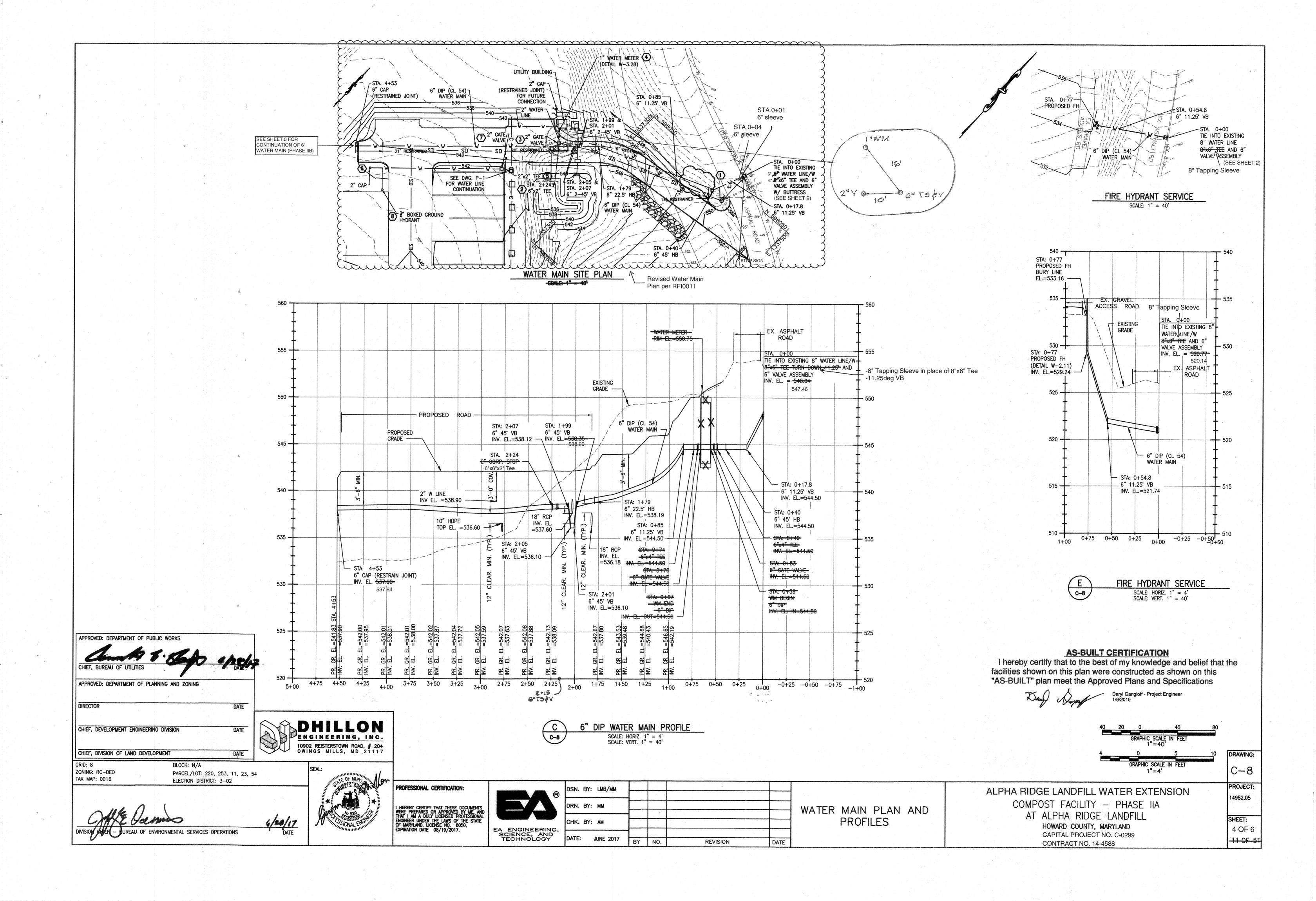
ALPHA RIDGE LANDFILL WATER EXTENSION

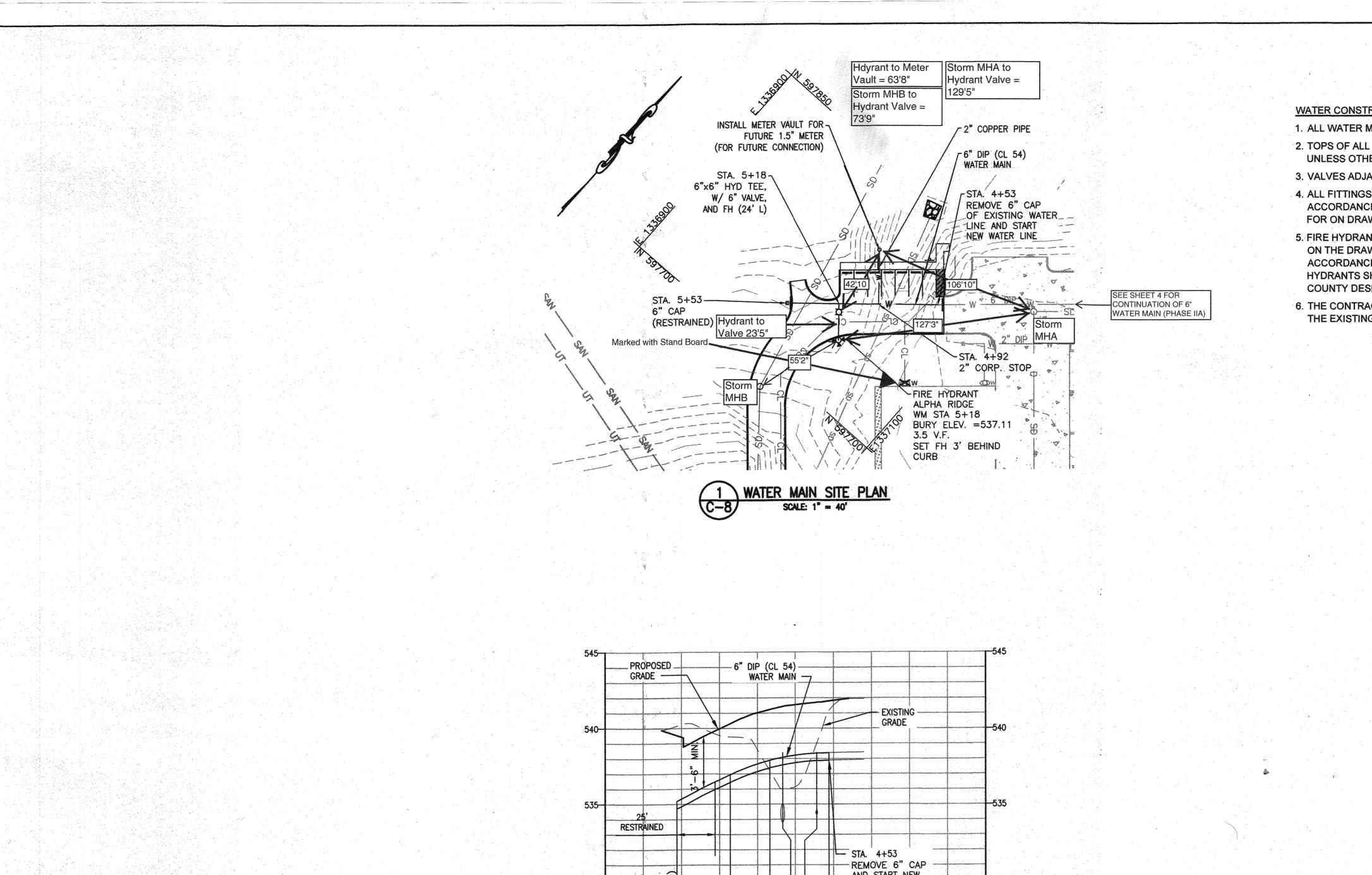
CAPITAL PROJECTS No. W-8288, C-0299 CONTRACT NO. 14-4588

ELECTION DISTRICT NO.3 HOWARD COUNTY, MARYLAND

SHEET

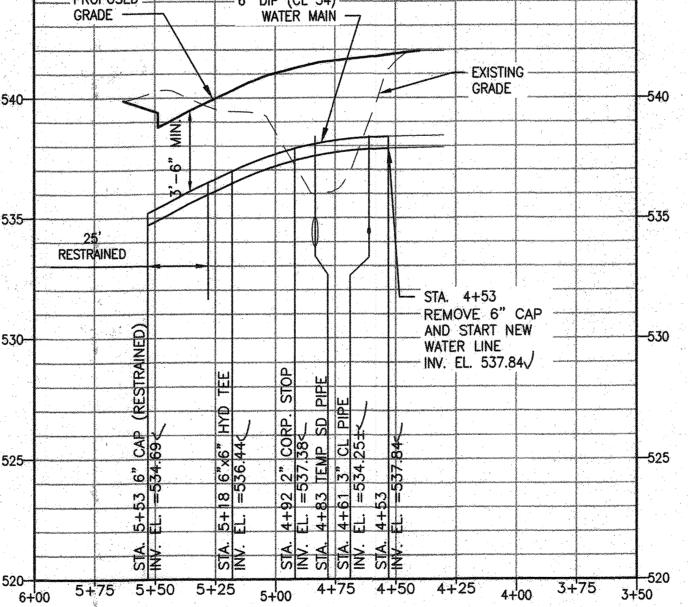
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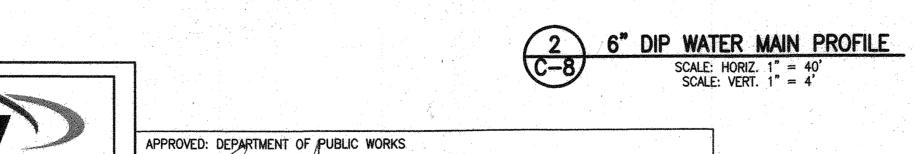




WATER CONSTRUCTION NOTES:

- 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO THE TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON DRAWINGS.
- 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV (LATEST EDITION).
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.





6-24-2020

DRAWING: C-8

PROJECT:

15564.05

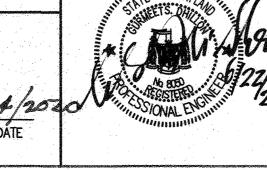
5 OF 6

11-0F-38

SHEET:

GRID: 8 ZONING: RC-DEO BLOCK: N/A PARCEL/LOT: 220, 253, 11, 23, 54 TAX MAP: 0016 ELECTION DISTRICT: 3-02

DIVISION CHIEF - BUREAU OF ENVIRONMENTAL SERVICES OPERATIONS



DHILLON ENGINEERING INC.

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. 8050, EXPIRATION DATE 08/19/2021.	EA ENGIN
	TECHN

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CHIEF, BUREAU OF UTILITIES

	DATE: MAY 2020	BY	NO.	REVISION
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	DRN. BY: MM	1		
	DSN. BY: LMB/MM	1		

WATER MAIN PLAN AND PROFILE

DATE

ALPHA RIDGE LANDFILL WATER EXTENSION COMPOST FACILITY - PHASE IIB AT ALPHA RIDGE LANDFILL HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. C-0299 CONTRACT NO. 14-4588

AS-BUILT DRAWING