ROBEY PUBLIC SAFETY TRAINING CENTER SEWER 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.
- 2. 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. IN
 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
- 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.
- 8. 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
BGE (CONSTRUCTION SERVICES)	•410-850-4620
BGE (EMERGENCY)	•410-685-1400
BUREAU OF UTILITIES	
COLONIAL PIPELINE CO	
MISS UTILITY	
STATE HIGHWAY ADMINISTRATION	
VERIZON.	
TRANSCON	
TIMMOCOIT TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T	• 110 301 3112

- 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 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 THE MAIN.
- 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.

SEWER GENERAL NOTES

- 1. ALL SEWER MAINS SHALL BE DIP OR PVC UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 3. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER. STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED. SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

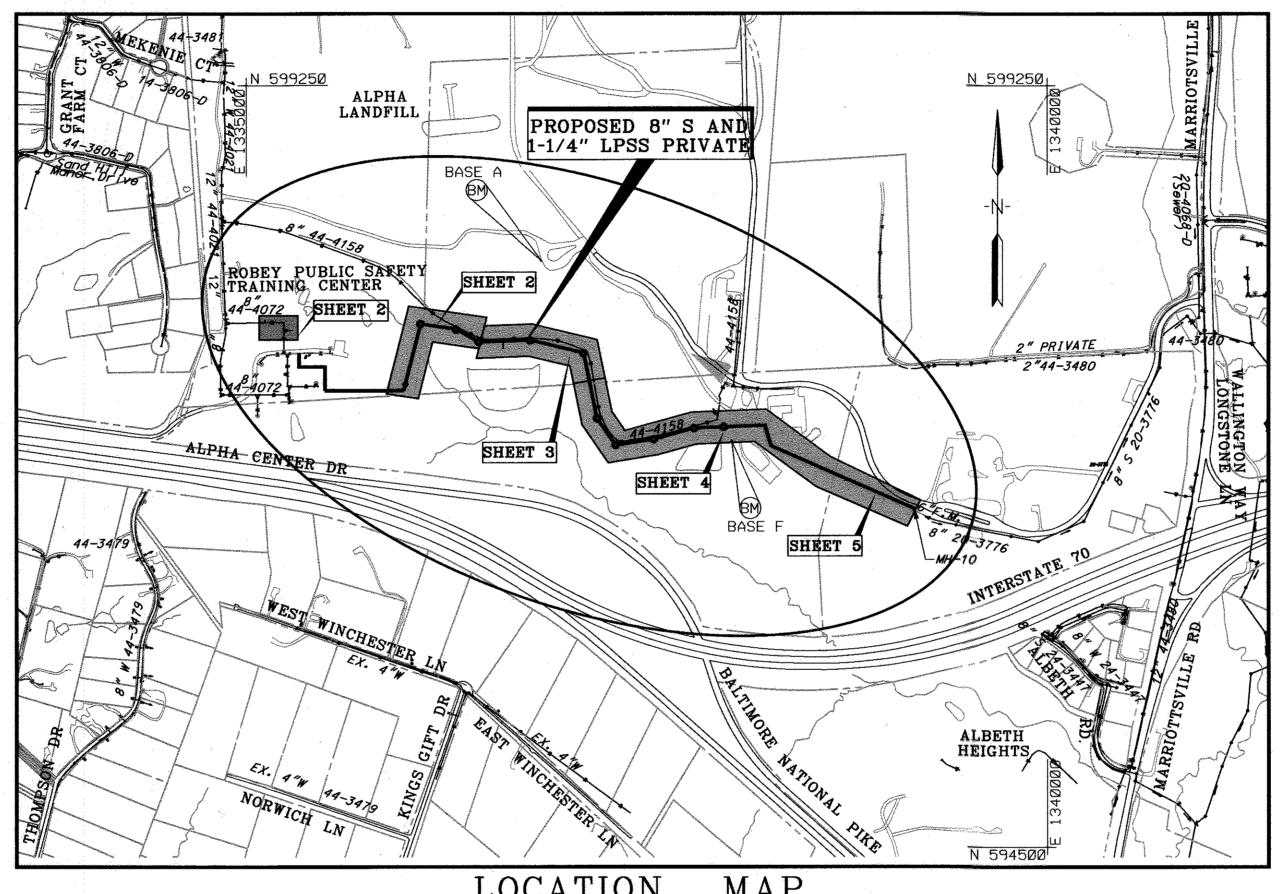
SUGGESTED SEQUENCE OF CONSTRUCTION FOR SEWER

- CONSTRUCT NEW GRAVITY SEWER, LPSS AND ALL SANITARY SEWER APPURTENANCES FROM EX. MH 10 (DOWNSTREAM) TO EX. MH 2 (UPSTREAM).
- TEST ALL SANITARY GRAVITY SEWERS AND PRESSURE SEWERS INCLUDING GRINDER PUMP STATION PER HOWARD COUNTY STANDARD SPECIFICATIONS AND MANUFACTURER RECOMMENDATIONS.
- CONNECT GRAVITY SEWER TO EX. MH 2 AND REMOVE EXISTING GRINDER PUMP STATION EX GP-1 PER DRAWING NOTES (SEE SHEET 2 OF 7). COORDINATE BYPASS PUMPING IF NECESSARY.
- CONNECT EXISTING GRAVITY SEWER AT EXISTING STORAGE TANK AREA (SMH-A TO SMH-11) SEE PLAN AND PROFILE ON SHEET 2 OF 7.
- COMPLETE RESTORATION.

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECTS No. S-6261 CONTRACT NO. 14-4577



LOCATION

SCALE: 1"= 600'

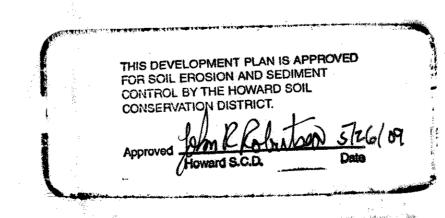
HORIZONTAL AND VERTICAL CONTROL BASED ON MARYLAND NAD83(91) (HORIZONTAL) AND NAVD88 (VERTICAL) DATUM. HOWARD COUNTY GEODETIC SURVEY CONTROL NUMBERS:

NO. BASE A N 598156.23

NO. BASE F N 597030.50

E 1336841.78 ELEV. 564.87

E 1338031.40 ELEV. 512.93



INDEX OF SHEETS

SHEET No.	DESCRIPTI	ON
1 TIT	TLE SHEET	
28"	SANITARY SEWER PL	AN AND PROFILE
38"	SANITARY SEWER PL	AN AND PROFILE
48"	& 1-1/4" SANITARY	SEWER PLAN AND PROFILE
51-1	1/4" SANITARY SEWER	R FORCE MAIN PLAN AND PROFILE
6GR	RINDER PUMP STATION	I PLAN AND DETAILS
7ER	OSION AND SEDIMENT	CONTROL NOTES AND DETAILS

QUANTITIES							
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER			
8" SEWER (DIP)	L.F.	390	390	BELAIR RD SUPPLY CO.			
8" SEWER (PVC)	L.F.	2466	2463	11 11 11 11			
11/4" FM (HDPE)	L.F.	1624	1624	FLYING "W" PLASTICS			
4' DIA. MH	EA	8	8+1(ARV)	ATLANTIC CONCRETE			
4' DIA. MH TYPE A DROP MH	EA	- 2	2	PRODUCTS			
GRINDER PUMP STATION	EA	1		APCO CORP.			
6"STEEL PIPE ASTM A5307	L.F.	136	136	MONUMENTAL SUPPLY CO			

RESTORATION SCHEDULE					
LOCATION	DISTANCE (FT.)	TYPE			
PAVED PRIVATE ROAD (SH. 4 OF 7)	20	ASPHALT			
EX. SMH-A - EX. SMH-11	52	MULCH & SEEDING			
RIP RAP DITCH (SH. 2,3,4 OF 7)	127	RIPRAP			
EX. MH 10 TO EX. MH 2	3845	MULCH & SEEDING			

TYPE OF BUILDING:

NUMBER OF PARCELS:

NUMBER OF SEWER HOUSE CONNECTION:

DRAINAGE AREA:

LITTLE PATUXENT

N/A

N/A

LEGEND

TRAVERSE POINT — LOD — LIMIT OF DISTURBANCE WATER HOUSE CONNECTION SEWER HOUSE CONNECTION TEST PIT LOCATION BORING LOCATION DECIDUOUS TREE

CONIFEROUS TREE

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

AS-BUILT DATE 09.15.10

WETLAND

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

CHIEF. UTILITY DESIGN DIVISION



CONSTRUCTION MANAGERS 10 North Park Drive HUNT VALLEY, MD 21030 PHONE: (410) 316-7800 Fax: (410) 316-7817



DES:	CLO				
DE3.	CLO	·			
DRN:	СК				
CHK:	TWW				
DATE:		LFN		AS BUILT MARKUPS	
DEC	2008	BY	NO.	REVISION	

TITLE SHEET

BLOCK NO. 9 & 10

DATE 600' SCALE MAP NO. 16

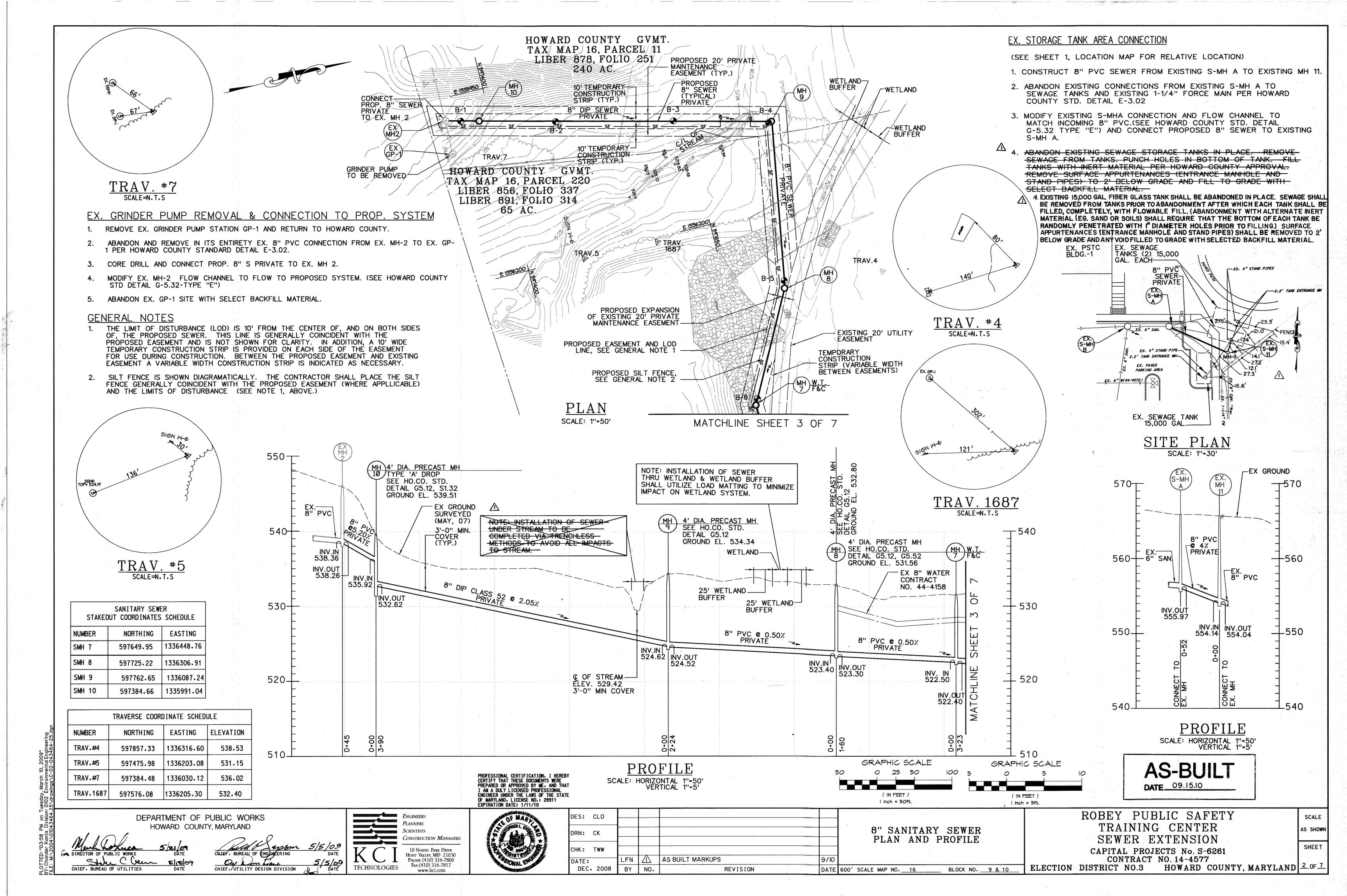
ROBEY PUBLIC SAFETY TRAINING CENTER SEWER EXTENSION CAPITAL PROJECTS No. S-6261 CONTRACT NO. 14-4577

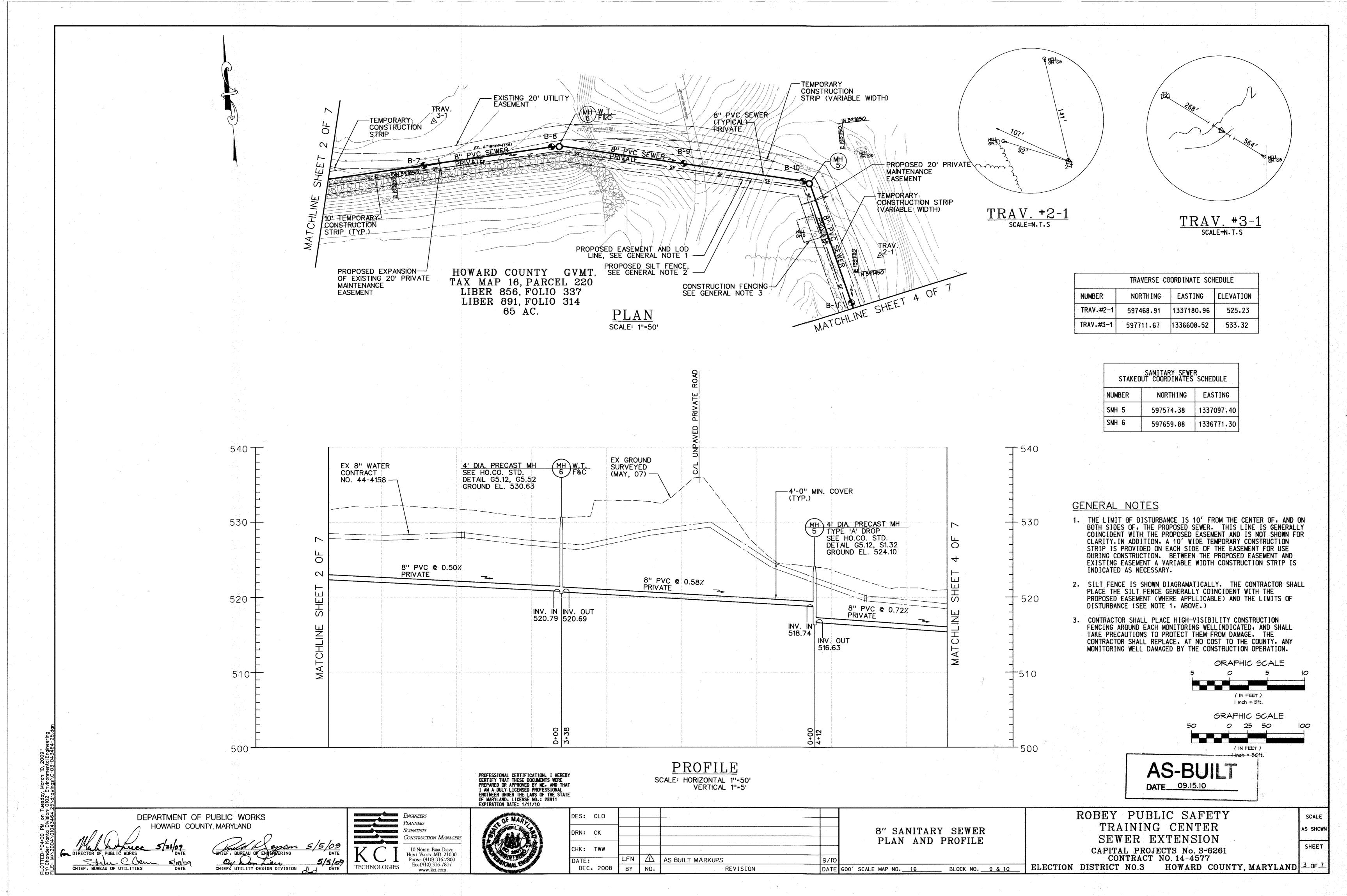
SHEET

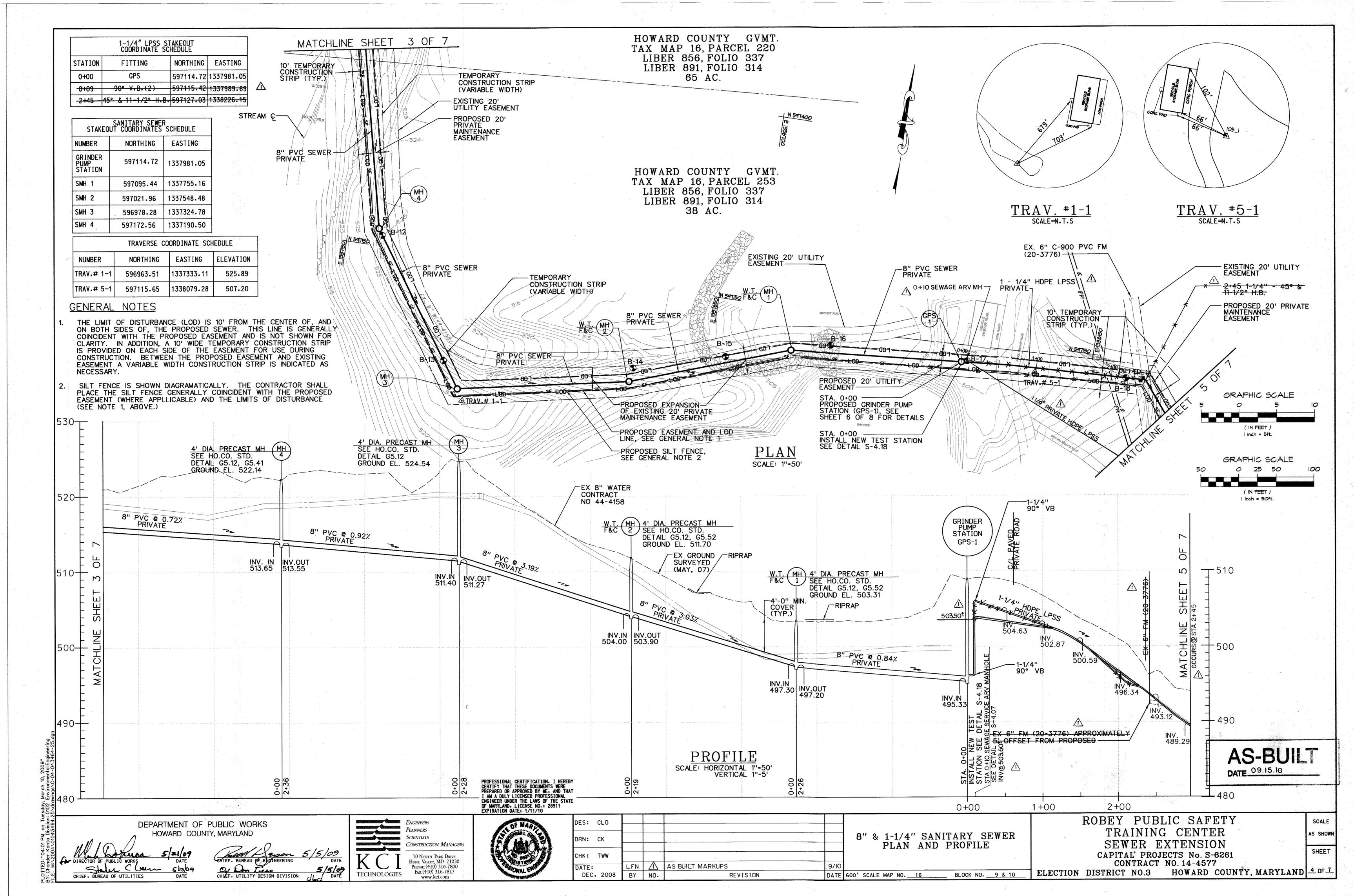
SCALE

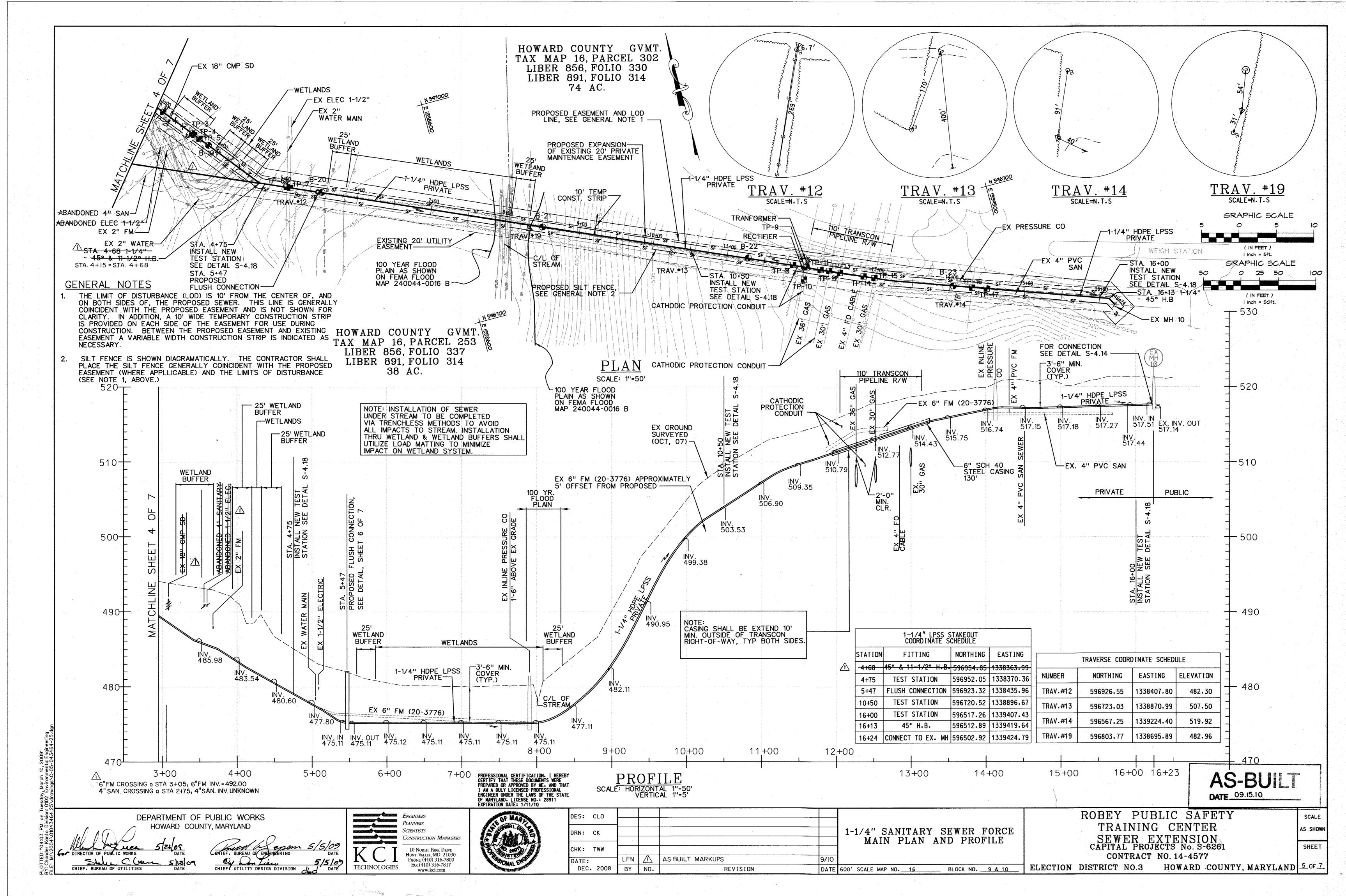
AS SHOWN

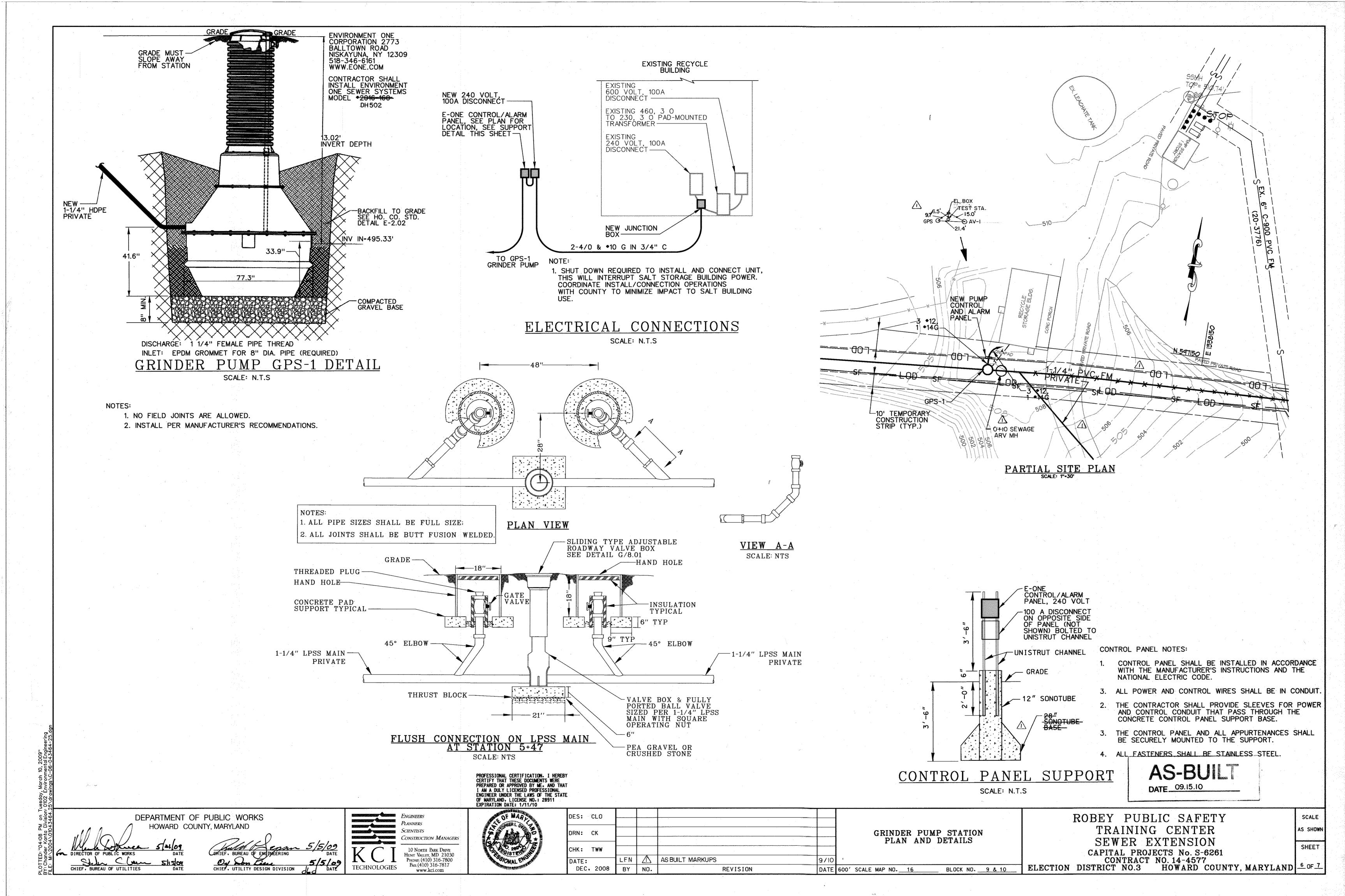
HOWARD COUNTY, MARYLAND 10 OF 7 ELECTION DISTRICT NO.3

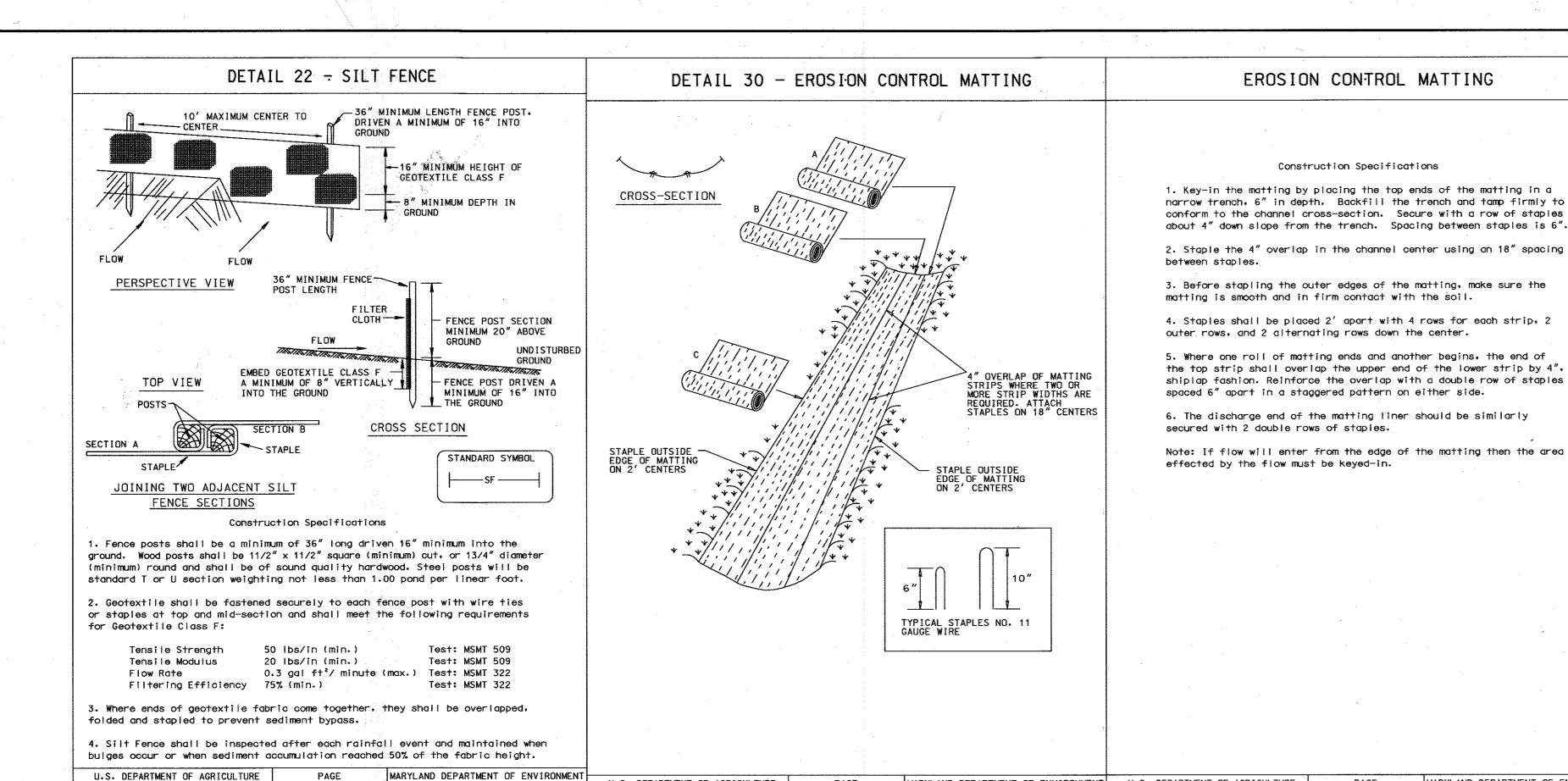






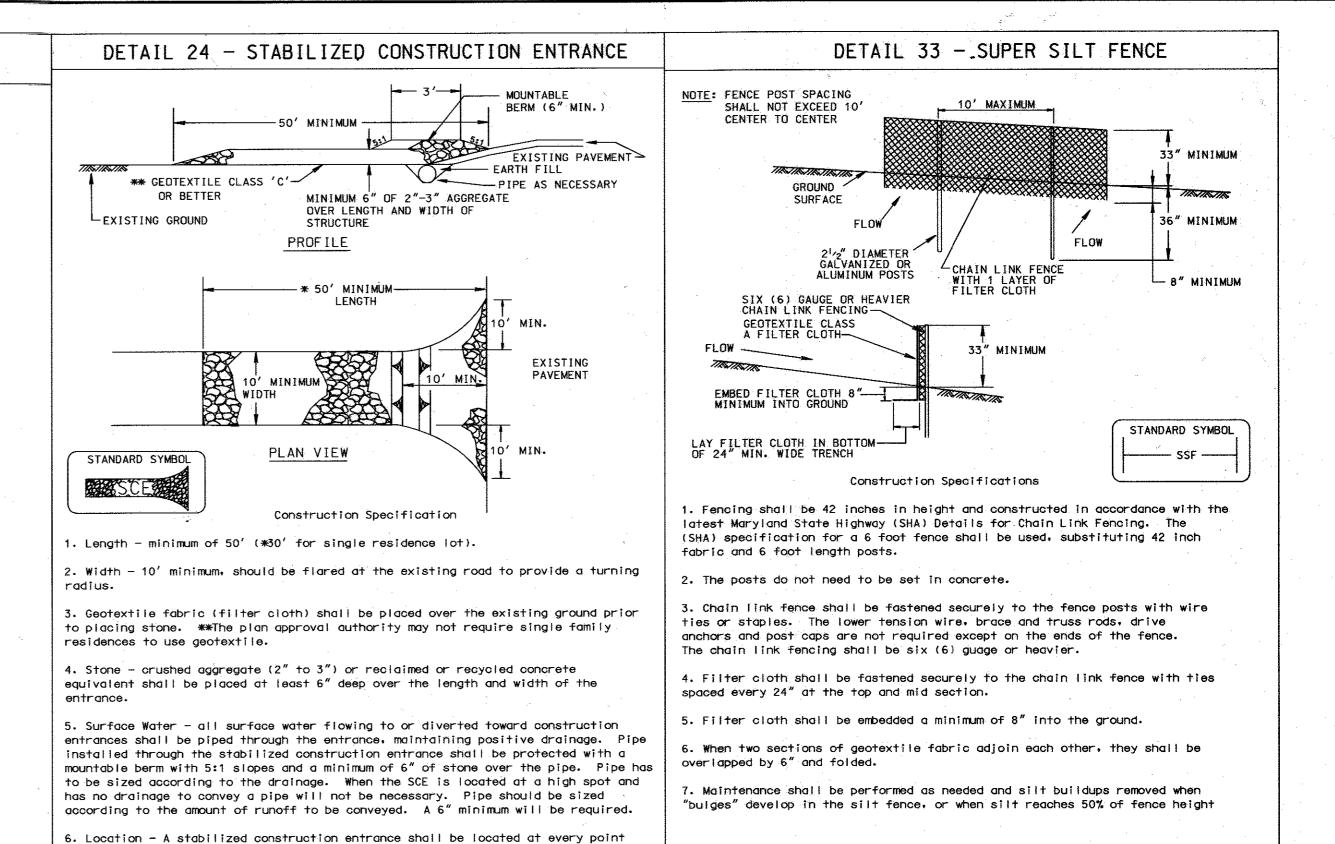






U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE



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

F - 17 - 3

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

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

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

PERMANENT SEEDING NOTES

WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE

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, 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) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW

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

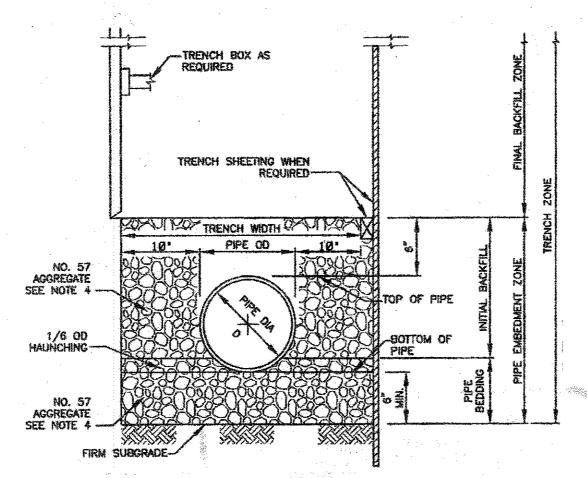
SEQUENCE OF CONSTRUCTION

WATER MANAGEMENT ADMINISTRATION

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

- 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)



NOTES:

Fax: (410) 316-7817

- 1. THE TRENCH WIDTH DIMENSION SHALL BE USED TO CALCULATE MAXIMUM TRENCH PAY WIDTH. 2. FOR TRENCHES WHERE TRENCH BOX OR TRENCH SHEETING IS NOT REQUIRED, MEASUREMENT
- FOR CONTINGENT BORROW MATERIAL'S WILL BE BASED ON THE TRENCH WIDTH SHOWN. 3. FOR TRENCHES WHERE TRENCH BOX OR THRECH SHEETING IS REQUIRED, MEASUREMENT FOR
- CONTINGENT BORROW MATERIALS WILL BE BASED ON THE TRENCH WIDTH SHOWN PLUS 24 INCHES. 4. FOR COPPER, PVC AND HOPE-PIPE, 3 INCHES OR SMALLER

PIPE EMBEDMENT ZONE MATERIAL IS FINE AGGREGATE (SAND) "10" DIMENSION IS 6 INCHES MINIMUM AND BEDDING THICKNESS UNDER PIPE IS 4 INCHES MINIMUM. FOR TRENCHES IN ROCK, MINIMUM BEDDING THICKNESS IS 6 INCHES.

STANDARD SEDIMENT CONTROL NOTES

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

- 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).
- 2. ALL VEGETIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS 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: 1.7 ACRES TOTAL AREA OF SITE AREA DISTURBED N/A AREA TO BE ROOFED OR PAVED — ACRES N/A ACRES AREA TO BE VEGATATIVELY STABILIZED N/A TOTAL CUT CU. YDS. N/A TOTAL FILL _ CU. YDS. OFFSITE WASTE/BORROW AREA LOCATION N/A

THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

- 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

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

600' SCALE MAP NO. 16

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

BEST MANAGEMENT PRACTICE (BMP) NOTES

- 1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100 YEAR FLOODPLAIN.
- 2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS. NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100 YEAR FLOODPLAIN.
- 3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
- 4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO OR THE 100 YEAR FLOODPLAIN.
- 5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT MODIFICATION OF THE 100 YEAR FLOODPLAIN IN EXCESS OF THAT
- LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL. 6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100 YEAR
- FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION. 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.), QATS (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.
 KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE
 AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- 8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY
- 9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM

USE I WATERS: IN STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.

- 10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAYS.
- 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

DEVELOPER'S CERTIFICATION

U.S. DEPARTMENT OF AGRICULTURE

ENGINEER'S CERTIFICATION

MARYLAND DEPARTMENT OF ENVIRONMENT

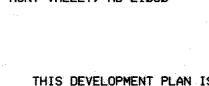
*I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPART-MENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

I ALSO AUTHORIZE PERIODING ON-SITE INSPECTION

*I/WE 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.

BY THE HOWARD SOIL CONSERVATION DISTRICT. DEPARTMENT OF PUBLIC WORKS

Cha On CHRISTOPHER L. OVERCASH, P.E. CI TECHNOLOGIES, INC Ø NORTH PARK DRIVE HUNT VALLEY, MD 2103

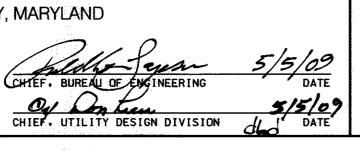


THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

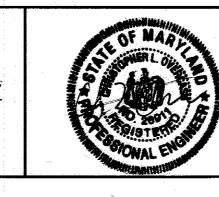
AS-BUILT DATE 09/15/10

HOWARD S.C.D.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND







DES: CLO	-			
DRN: CK				
CHK: TWW				
DATE:	LFN		AS BUILT MARKUPS	9/10
 DEC, 2008	BY	NO.	REVISION	DATE

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

BLOCK NO. 9 & 10

ROBEY PUBLIC SAFETY TRAINING CENTER SEWER EXTENSION CAPITAL PROJECTS No. S-6261

CONTRACT NO. 14-4577

AS SHOWN SHEET

SCALE

HOWARD COUNTY, MARYLAND 7 OF ELECTION DISTRICT NO.3