HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS



ST. JOHNS LANE CAPITAL PROJECT NO. J-4056

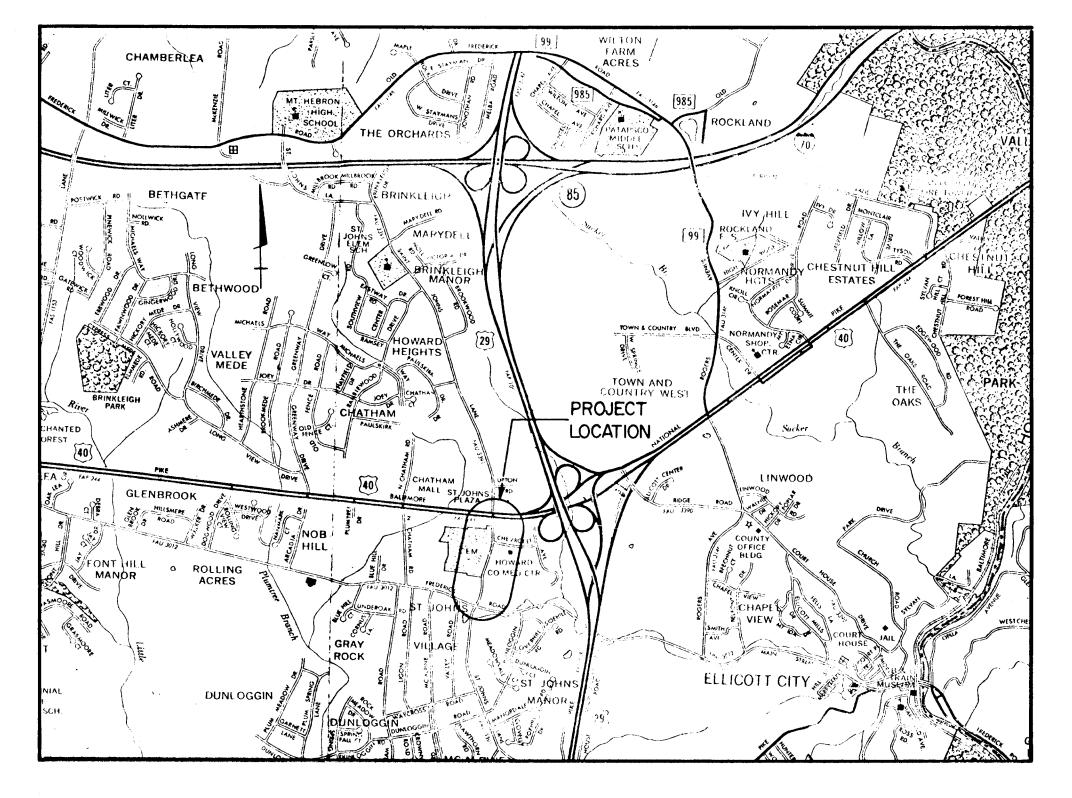
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- STORM DRAIN JUNCTION CHAMBER
- IO. MAINTENANCE OF TRAFFIC
- II. TRAFFIC SIGNAL- ST. JOHNS LANE AND FREDERICK ROAD
- 12. WEST RETAINING WALL
- 13-15 EAST RETAINING WALL
- 16-19 EROSION AND SEDIMENT CONTROL PLANS.

FULL DEPTH PAVING

LEGEND

	N. N.
ABBREVIA	TIONS
Q.	CENTER LINE
PL.	PROPERTY LINE
INV.	INVERT
R/W	RIGHT OF WAY
EX. OR EXIST.	EXISTING
	Q PL INV. R/W



LOCATION MAP



DESIGN SPEED = 40 MPH CLASSIFICATION # MAJOR COLLECTOR

CERTIFICATION BY THE DEVELOPER

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT THE RESPON-HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATIONAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT."

	Vie	فُ	•	29	Dian	٥
SIGN	ATURE	0F	DEVEL	OPER	}	1

CERTIFICATION BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR EROSION & 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."

Dona	La	W.	Wa	Ste
SIGNATU	RE OF	ENGIN	EER	

AND MEETS TECHNICAL REQUIREMENTS.

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

U.S. SOIL CONSERVATION SERVICE

CZ12CZ01

DRAWING

ST. JOHNS LANE

CAPITAL PROJECT NO. J-4056 ELECTION DISTRICT NO. 2

NO. <u>I</u> OF <u>1</u>9_

DESIGNED BY I" = I/2 MILE DRAFTED BY J. K.D.

HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS, DATE CHIEF-BUREAU OF ENGINEERING DATE

CHEF-BUREAU OF UTILITIES. CHIEF-ROADS, BRIDGES, STORM DRAINAGE DIVISION DATE

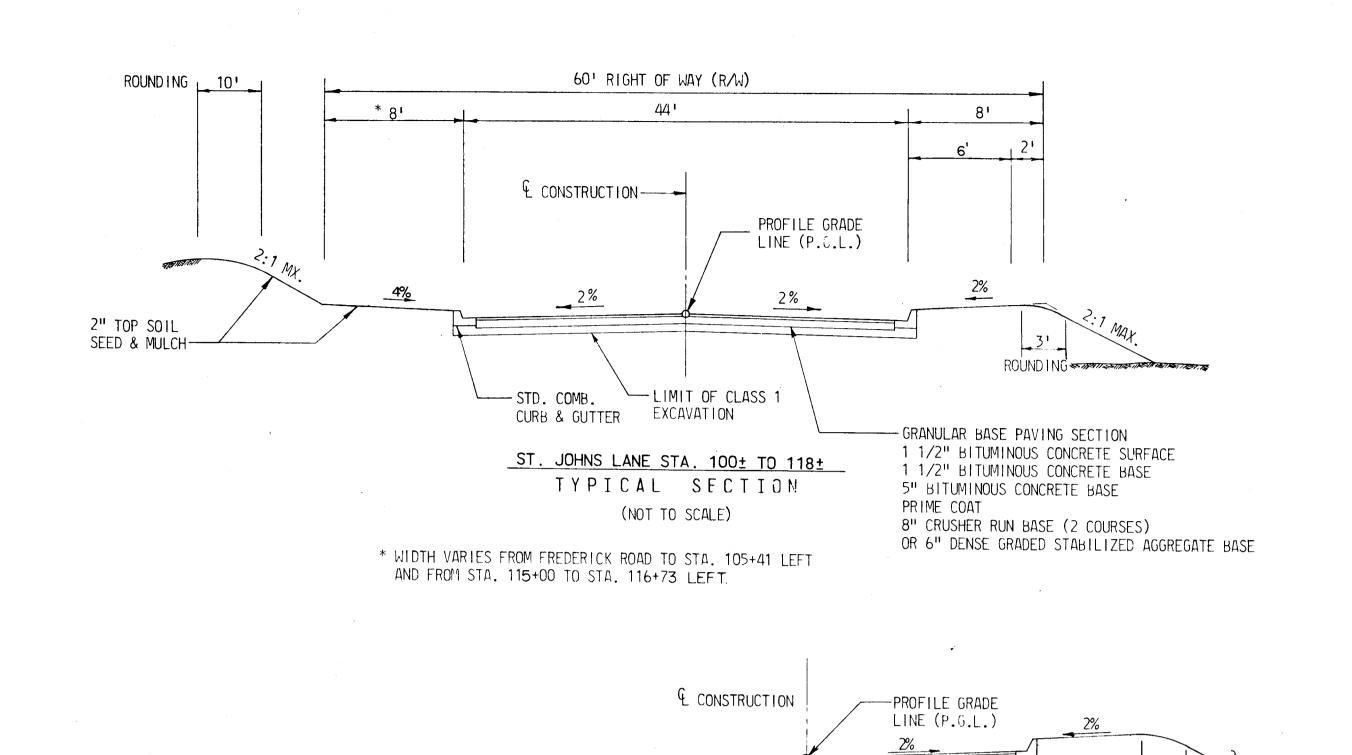
KIDDE CONSULTANTS, INC.

ENGINEERS • ARCHITECTS • PLANNERS BALTIMORE, MARYLAND

TITLE SHEET

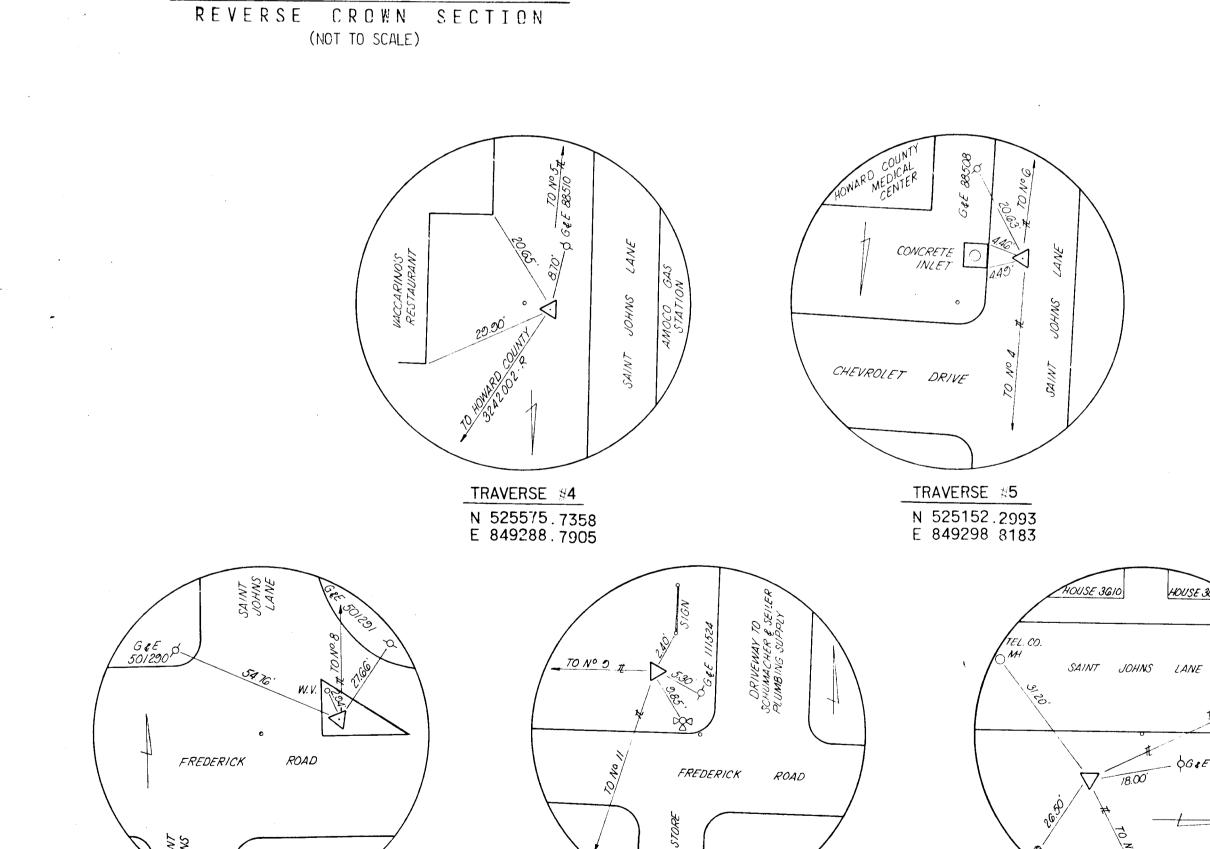
HOWARD COUNTY MARYLAND

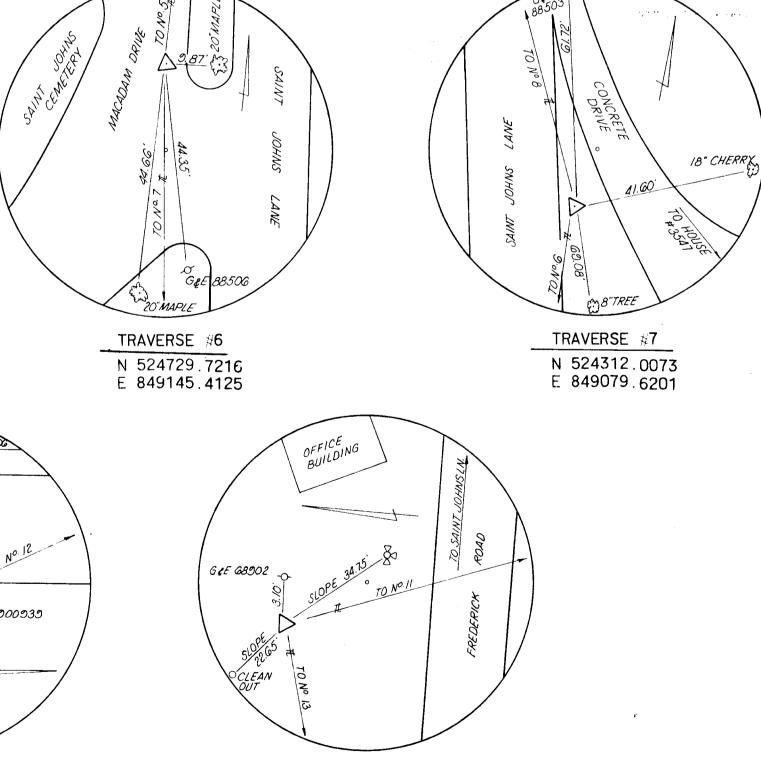
DEPARTMENT OF PUBLIC WORKS



P.C.	P.T.	% SUPERELEVATION	ST. JOHN BEGIN TRANSITION A	S LANE BEGIN SUPERELEVATION B	END SUPERELEVATION C	END TRANSITION D	"C". FT/F
103+09.32	104+46.90	REVERSE CROWN	101+84.32	103+09.32	104+46.90	105+71.90	0.00032
113+69.33	117+25.33	REVERSE CROWN	112+44.33	113+69.22	116+62.83	* 117+25.33	0.00032
117+25.33	118+87.79	REVERSE CROWN	117+25.33	117+87.83	118+40,00	119+40.00	0.00032
			· · · · · · · · · · · · · · · · · · ·				
					1		
ST. JOHNS LANE TO A				7%	P.G.L.		
D T	О А	NORMAL CROWN		2%			
D TO ROUTE 40							
B 10 C		REVERSE CROWN		2%			
STA	. 117+25.33.	LEVEL SECTION		0%	0%		
514					•		

	SCHEDULE OF (COORDINATES	
	BASE LINE OF O	CONSTRUCTION	
POINT	STATION	NORTH	EAST
	ST. JOHNS	S LANE	
P.O.T.	94+13.63	523250.0000	848855.000
P.C.	96+27.01	523462.8258	848870.413
P.1.		523583.0239	. 848879,118
P.T.	98+66.55	523696 . 4745	848919.767
P.C.	103+09.32	524113.2959	849069,113
P.I.		524178 . 1682	849092.357
P.T.	104+46.90	524245.7056	849106.045
P.C.	113+69.33	525149.7513	849289 , 277
P.I.		525327 . 0057	849325.203
P.R.C.	117+25.33	525502.8948	849283 . 099
P.I.		525582 . 2799	849264 . 095
P.T.	118+87.79	525663 . 9063	849264 . 590
P.O.T.	119+37.79	525713 . 9054	849264.893
	FREDERIC	K ROAD	
P.O.T.	4+58.19	52374C.0000	849500.000
P.C.	9+71.32	523815 , 5360	848992 . 466
P.1.		523829.0000	8489 0 2.000
∍.⊺.	11+52 .23	523873.7184	848822.214
P.C.	12+72.40	523932.4730	. 848717 , 386
P.1.		523968,0000	848654.000
P.T.	14+17.62	523997.3512	848587 . 528
P.O.T.	14+67.62	524017 . 5478	848541 . 788





REVISI(ONS				
LVISIO) NO		 		
		L		1116	
<u> </u>	DR AWIN	G			NT.

GEE 200357 \$250

TRAVERSE #8

N 524076.1306 E 849096.8906

MACADAM DRIVE TO TELEPHONE CO.

DEPARTMENT OF PUBLIC WORKS

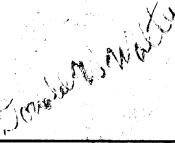
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE CHIEF-BUREAU OF ENGINEERING DATE

CHIEF-ROADS, BRIDGES, STORM DRAINAGE DIVISION DATE

KIDDE CONSULTANTS, INC./

ENGINEERS • ARCHITECTS • PLANNERS
BALTIMORE, MARYLAND



TRAVERSE #9

N 523830.6010 E 848999.7138

ST. JOHNS LANE STA. 100± TO 118±

TYPICAL SECTION & DETAILS

TRAVERSE #10

N 52378**5**.5236 E 849451.6254 TRAVERSE #11

N 523403.5900 E 848883.2700

ST. JOHNS LANE

TRAVERSE #12

N 523907.5400 E 848837.2309

CAPITAL PROJECT NO. J-4056

ELECTION DISTRICT NO. 2

HOWARD COUNTY MARYLAND

DRAWING

NO. 2

OF 19

SCALE

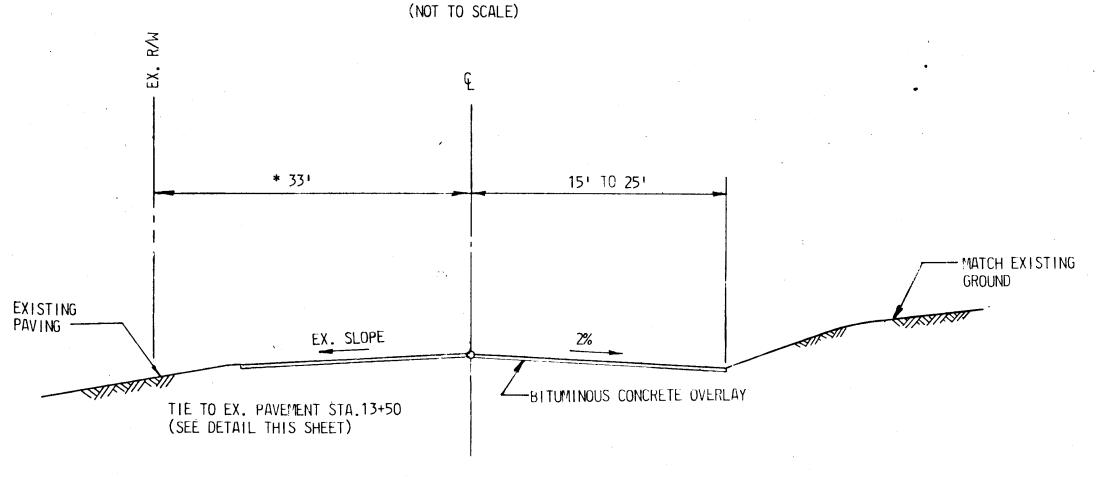
WT DESIGNED BY:

WT DESIGNED BY:

WHECKED BY:

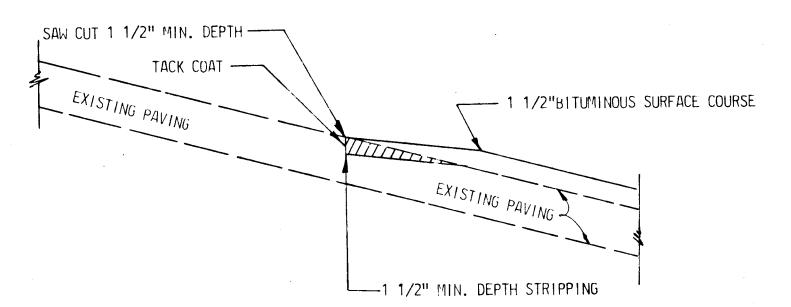
VARIES 20' TO 23' (SEE PLANS) EXISTING EXISTING GROUND -____2% EX. SLOPE 2% TIE TO EX. PAVEMENT STA. 5+50 (SEE DETAIL THIS SHEET)

> FREDERICK ROAD STA. 5+50 TO 10+00 TYPICAL SECTION



FREDERICK ROAD STA. 10+00 TO 13+50 TYPICAL SECTION (NOT TO SCALE)

* OVERLAY AT ENTRANCES & DRIVES TO EXISTING RIGHT-OF-WAY.



PAVING DETAIL OVERLAY TIE TO EXISTING PAVEMENT EDGES.

GENERAL NOTES

- 1. RIGHT OF WAY LINES SHOWN ON THESE PLANS ARE SHOWN FOR ASSISTANCE IN INTERPRETING THE PLANS. FOR ANY FEE RIGHT OF WAY AND EASEMENT INFORMATION SEE RIGHT OF WAY PLATS.
- 2. ENDWALLS ARE NOT TO BE CONSTRUCTED UNTIL GRADING IS COMPLETED. THE TYPES OF ENDWALLS ARE SUBJECT TO MODIFICATIONS.
- 3. EXISTING PRIVATE SIDEWALKS DISTURBED BY THE WORK SHALL BE RECONSTRUCTED AND STEPS SHALL BE PROVIDED WHERE NECESSARY AS A RESULT OF GRADING.
- 4. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES 2'-O" MINIMUM OR TUNNEL AS REQUIRED. COST FOR TUNNELING OR BRACING OF POLES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR STORM DRAINS.
- 5. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 6. ALL SLOPES AND/OR DISTURBED AREAS SHALL RECEIVE 2" TOPSOIL, SEED AND MULCH EXCEPT WHERE OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 7. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TEMPORARY SEDIMENT CONTROL MEASURES AS SHOWN ON THE DRAWINGS. HOWEVER, ANY SEDIMENT CONTROL MEASURES NOT SPECIFICALLY INDICATED IN THE CONTPACT DOCUMENTS, BUT REQUIRED AS A RESULT OF THE CONTRACTORS EXCAVATIONS OR ACTIVITIES SHALL NOT BE CAUSE FOR EXTRA PAYMENT.
- 8. LOCATION POINTS FOR INLETS, MANHOLES AND STRUCTURES

ITEM	HORIZONTAL LOCATION	VERTICAL LOCATI
CURB TYPE	CENTER FACE OF CURB	TOP OF CURB
INLETS GRATE TYPE	CENTER OF GRATE	TOP OF GRATE
MANHOLES	CENTER OF COVER	TOP OF COVER
STRUCTURES WITH STACK ENDWALLS	CENTER OF COVER CENTER OF WALL	TOP OF COVER

- 9. APPROXIMATE LOCATION OF EXISTING UTILITIES IS SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 10. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN VICINITY OF UTILITIES. COST SHOLL BE INCLUDED IN THE UNIT PRICES BID FOR STORM DRAINS.

- 11. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - MISS UTILITY (COLLECT) 1-559-0100; BALTIMORE GAS & ELECTRIC COMPANY -UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING 'DAMAGE CONTROL' 234-5691; BALTIMORE GAS & ELECTRIC COMPANY -UNDERGROUND GAS DISTRIBUTION ENGINEERING 234-5533; CHESAPEAKE & POTOMAC TELEPHONE COMPANY 725-9976; STATE HIGHWAY ADMINISTRATION 531-5533.
- 12. ALL MANHOLES SHALL BE 4'-O" INSIDE DIAMETER.
- 13. STANDARD DETAILS FOR THIS CONTRACT SHALL BE THE HOWARD COUNTY STANDARD DETAILS AS SUPPLEMENTED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD DETAILS.
- 14. TREES ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT.
- 15. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "CLEARING AND GRUBBING".
- 16. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- 17. TOP ELEVATIONS OF STRUCTURES SHALL BE ADJUSTED AS SHOWN TO MEET EXISTING CONDITIONS AS DIRECTED BY THE ENGINEER.
- 18. GRADING SHALL BE DONE IN SUCH A MANNER SO AS TO INSURE POSITIVE DRAINAGE TO THE PROPOSED INLET STRUCTURES.
- 19. HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON THE MARYLAND STATE GRID COORDINATE SYSTEM.
- 20. ALL HANDWRITTEN NOTES ARE FOR EXISTING INFORMATION.
- 21. ALL TYPED NOTES ARE FOR PROPOSED INFORMATION.

INLET SCHEDULE

		1 ! NL	LE I SUMEI	JULE			
NO.	LOCAT	ION	TOP CURB/GRATE	INV. OUTLET	TYPE	REMARKS	
	STA.	OFFSET	ELEV.	PIPE		KEMAKKS	
ST. JOHNS LANE							
I-1	117+50±	22'RT.±	395.22	387.00	DBL.S-CONio: *	RETIC.GRATE	
EX. 1-3A	115+93±	40'RT.±	383.24	378.90			
I-3	115+00±	22'LT.±	382.26	378.50	S-COMB.	RETIC.GRATE	
EX. I-3B	113+92 <u>+</u>	37'RT.±		368.27			
EX. I-3C	114+23	35'RT.±		368.40			
EX. I-3D	113+62	14'RT.±	1	367.05			
I-5	110+55.83	22'RT.±	366.08	363.00	DBL.S-COMB.	RETIC.GRATE	
I-6	110+55,83	22'LT.±	366.08	363.40	DRF.2-CO.4R	RETIC.GRATE	
I-9	108+40±	22'RT.±	370.62	367.00	S-COMB.	RETIC.GRATE	
I-10	108+21±	22'LT.±	371.48	364.90	S-COMB.	RETIC.GRATE	
I-11	100+68±	22'LT.±	378.55	374.50	S-COMB.	RETIC.GRATE	
I-12	101+00±	22'RT.±	378,26	369.50	S-COMB.	RETIC.GRATE	
		L					
un.	LOCAT	ION	10P	TNV.	TVDE	DEMARKO	
NO.	STA.	OFFSET	CURB/GRATE	OUTLET PIPE	TYPE	REMARKS	
FREDERICK ROAD							
I-13	9+18±	23'RT.±	372.60	364.40	S-COMB.	RETIC.GRATE	
T 45	10.70	DE LOT	707 20	374.80	0.00140	RETIC.GRATE	
I-15	10+60±	25'RT.±	383.20	J/4,6U	S-COMB.	METIC.ORATE	
		 	<u> </u>		 	 	

* FUTURE ** NORMAL TO CURB

MANHOLE SCHEDLLE

		M	ANHOLE S	CHEDULE		
NO.		ATION	TOP ELEV.	INV. OUTLET	TYPE	REMARKS
	STA.	OFFSET	CLEV.	PIPE		
		,	STJOHN	S LANE		
MH-1	117+25±	7'LT.±	393.73	386.00	G5.01/G5.12	·
MH-2	109+95±	7'LT,±	366,33	355,90	G5.13	
MH-3	108+50±	7'LT.±	369.95	364.00	G5.01/G5.12	
MH-4	116+35±	40'RT.±	355.70	382.38	G5.01/G5.12	
Y-1	116+25±	7'LT.±		381.43	SD 1.11(SGL)	
Y-2	113+40±	7'LT.±		366.01	SD 1.11(SGL)	
MH-8	115+22±	20'RT.±	383.19	376.51	65.01/65.12	
MH-1	114+95+	7'L1.±	381.78	374.35	65.01/65.12	
MH-5.	112+27±	7'L1.±	368.74	359.05	65,0 2 /65,1 3	
MH-6	110+65±	7'L1.±	365.89	355.10	G5.13	
мн-24	109+13±	78'LI.±	365,84	360,29	G5.05/G5.12	
	-					
NO.	LOCA		TOP	INV.	TYPE	REMARKS
	STA.	OFFSET	FLEV.	OUTLET PIPE	<u> </u>	
		f	FREDERIC	K ROAD		1
MH-12	6+24±	13'RT.±	355.70	351.50	G5.05/G5.12	
MH-10	10+15±	26'RT.±	379.80	369.90	G5.01/G5.12	
· · · · · · · · · · · · · · · · · · ·	1	1	1	1	I	

DRAINAGE STRUCTURE SCHEDULE

				SOTOTIL SOTILEDOLL	
NC.	LOCA	TVDE		ТҮРЕ	REMARKS
NU.	NU. STA. OFFSET PIPE		1112	T INTERNATION	
			ST.	JOHNS LANE	
S-1	112+39±	43 LT.±	359.80	"C" ENDWALL	
S-2	111+37±	50'RT.±	353, 23	CONC. TYPE "O" HDWL.	
S-3	107+95	46'LT.±	365.50	"E" HEADWALL	
S-5	111+37	7'LT.±	35 3. 50	JUNCTION CHAMBER	
S-4	4+71	20'RT.±	345.00	"C" ENDWALL	

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC DRKS DATE CHIEF - BUREAU OF ENGINEERING DATE Steenhelledonna Calia 4/2/85

CHIEF-ROADS , BRIDGES , STORM DRAINAGE DIVISION DATE

MIDDE CONSULTANTS, INC.

ENCINEERS ● AF CHITECTS ● PLANINGH. THIMOR MA. .



TYPICAL SECTIONS & GENERAL NOTES

ST. JOHNS LANE

CAPITAL PROJECT NO. J-4056

HOWARD COUNTY MARYLAND

ELECTION DISTRICT NO. 2

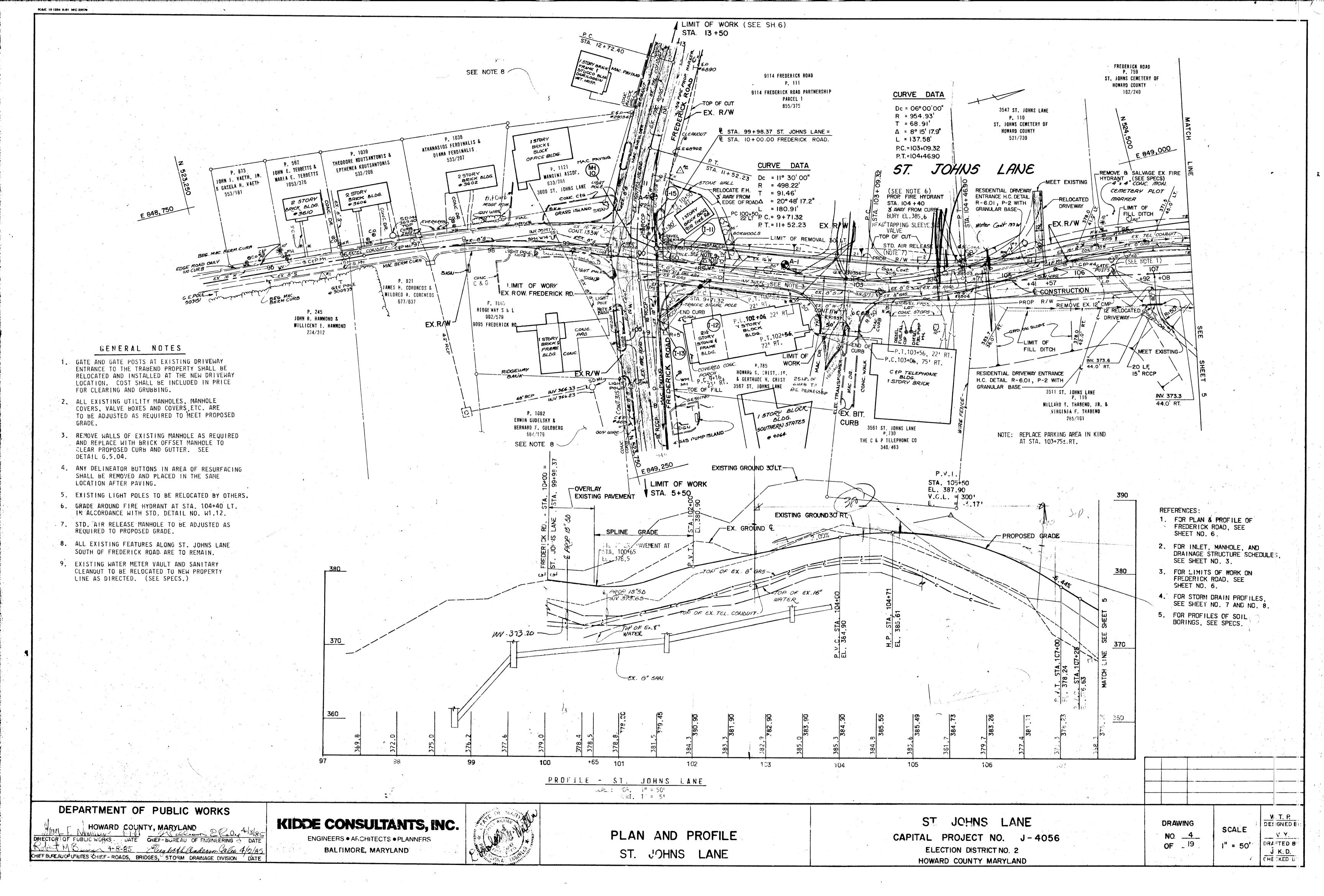
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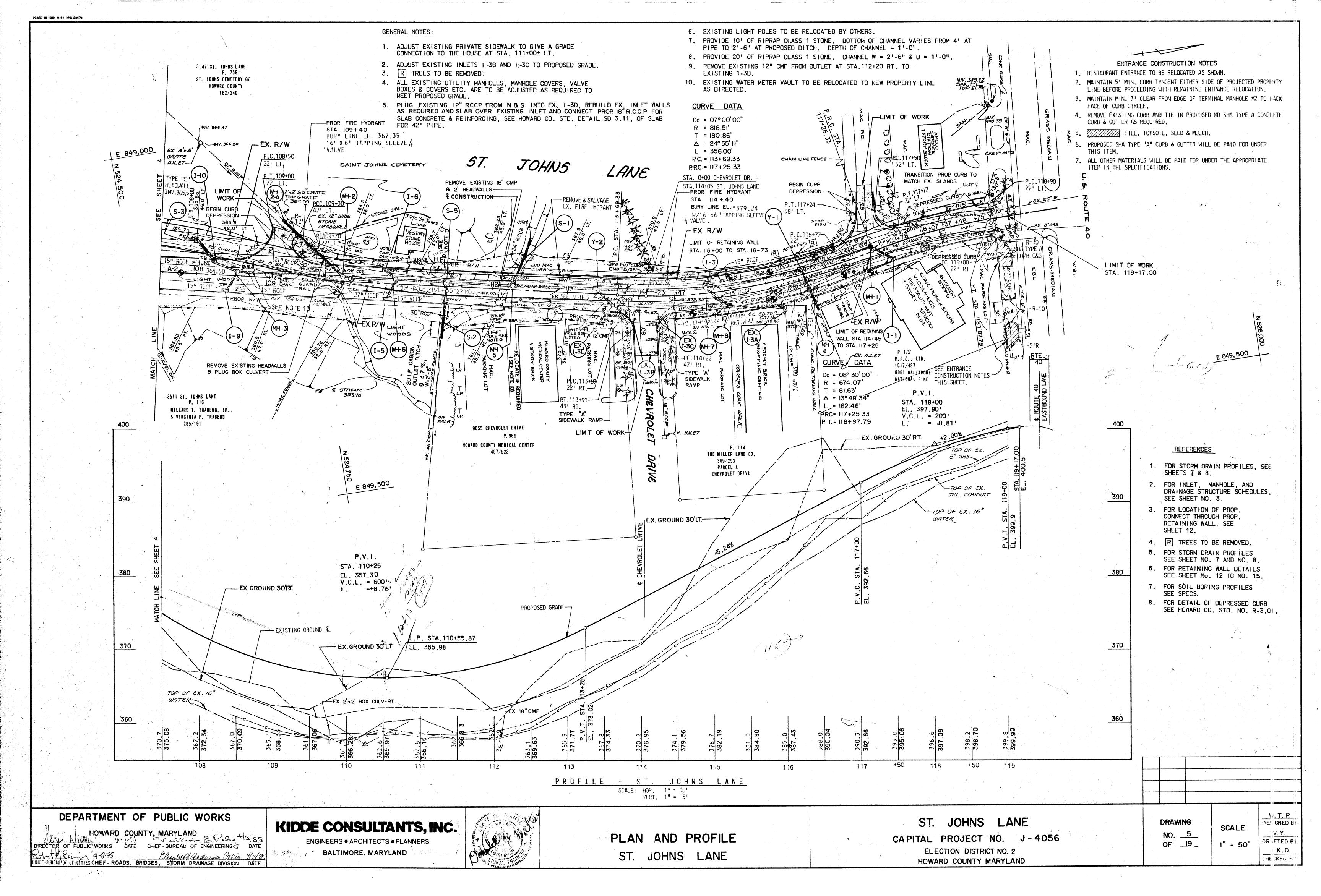
REVISIONS

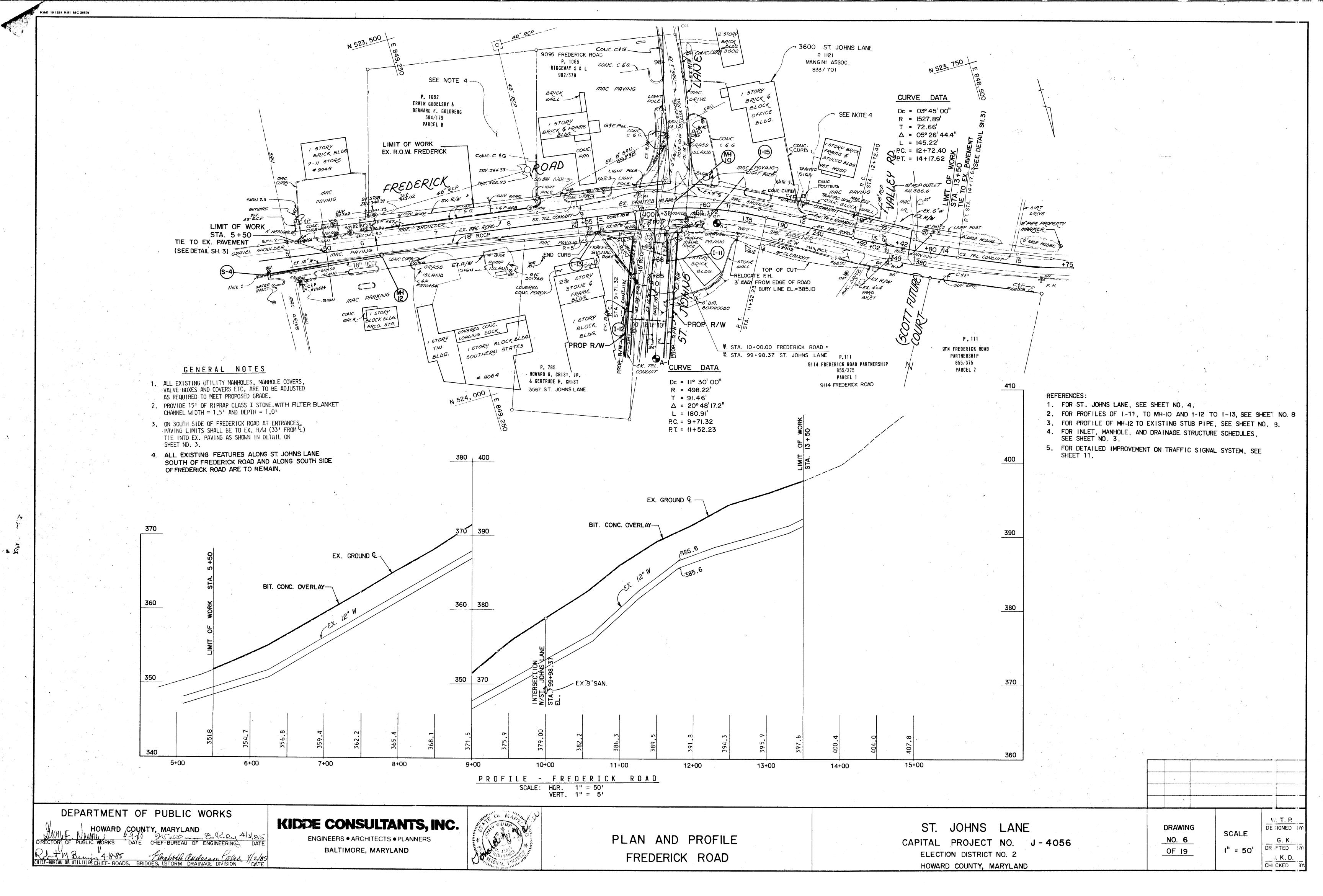
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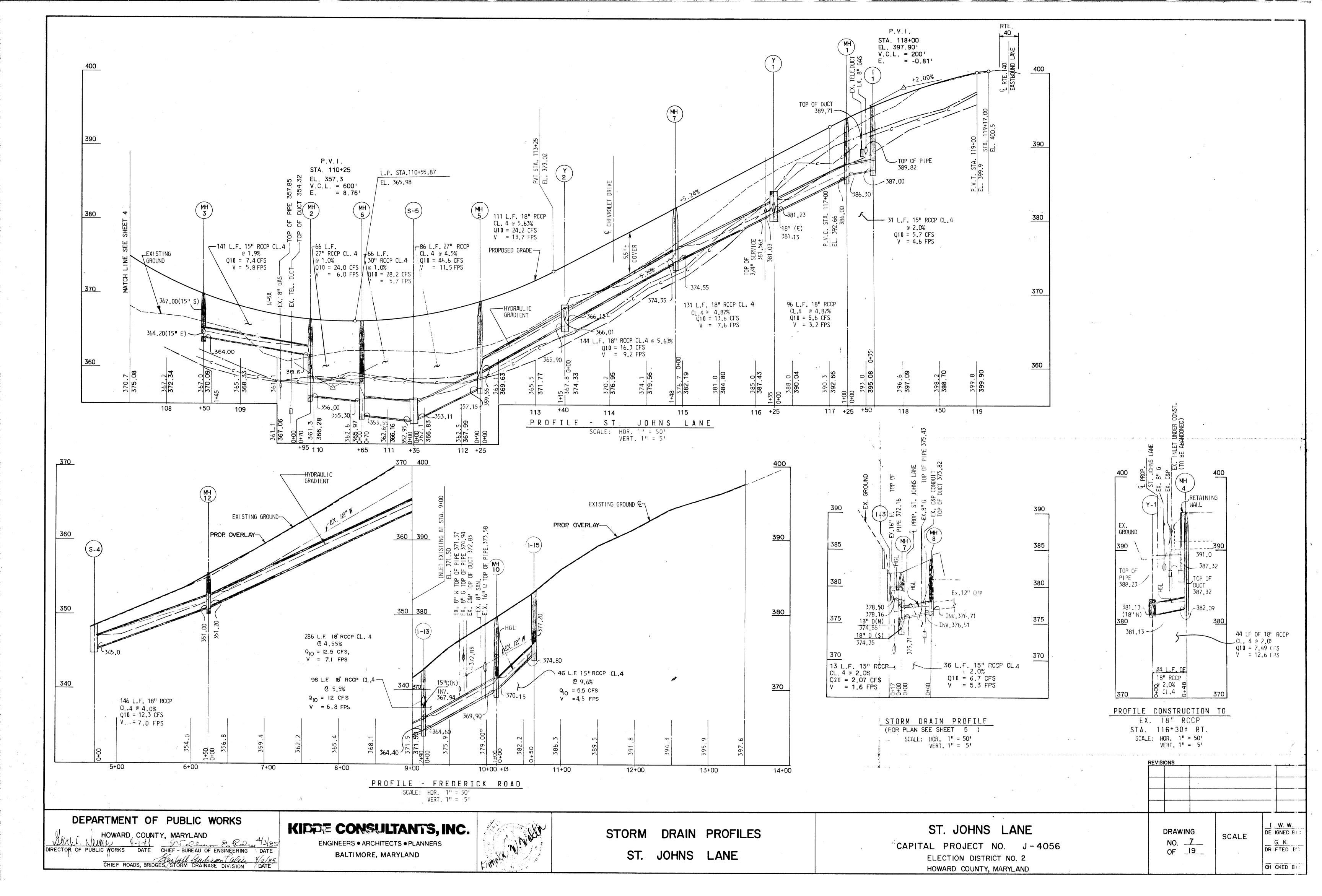
SCALE AS SHOWN DRAFTED EN

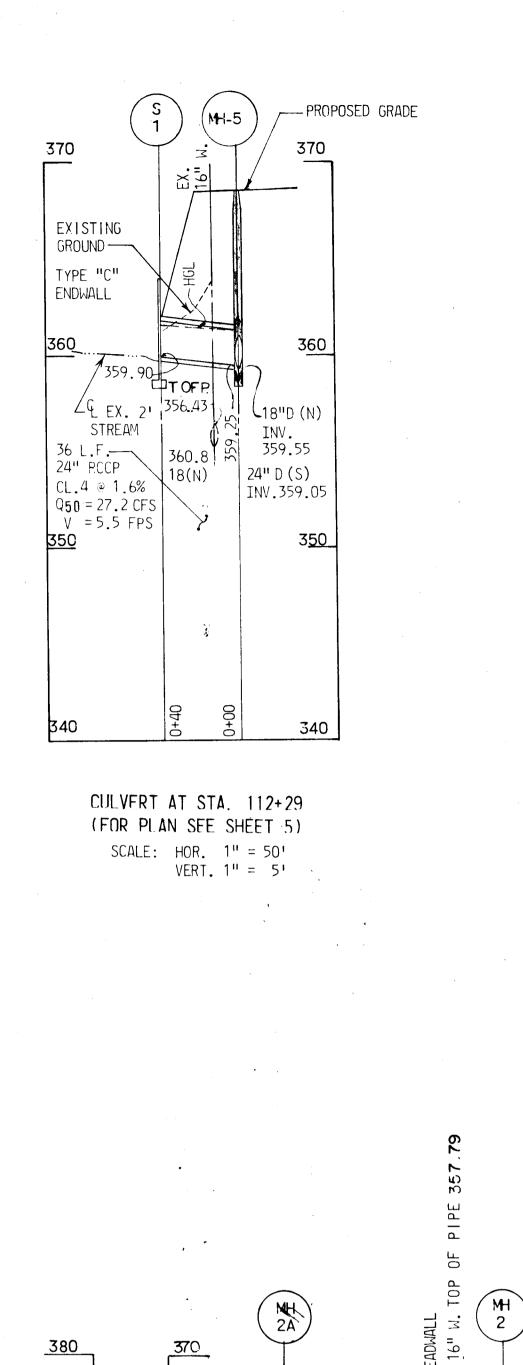
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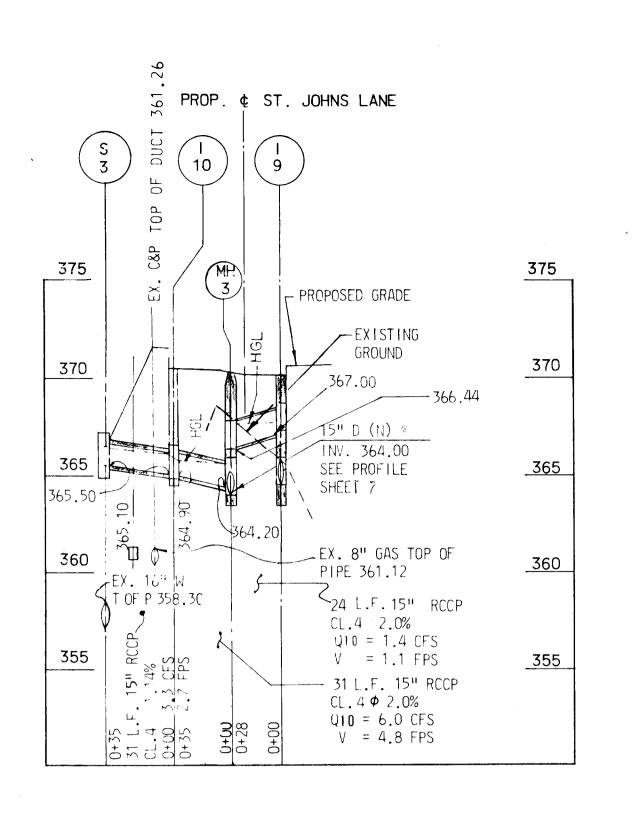




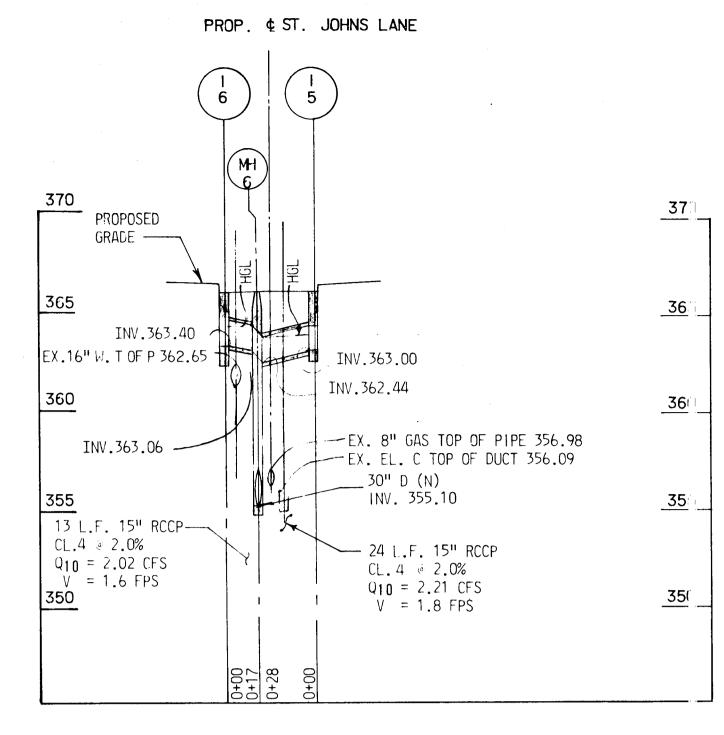




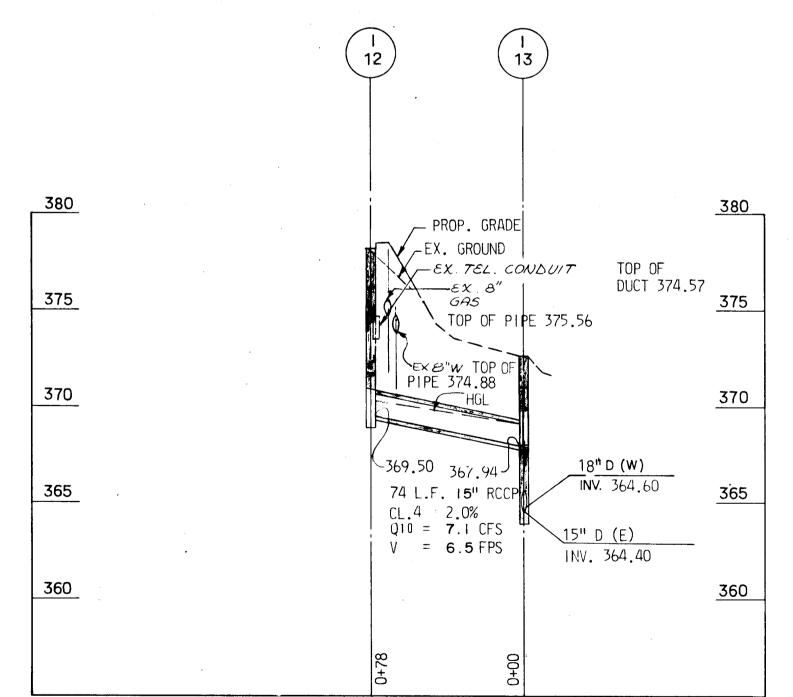




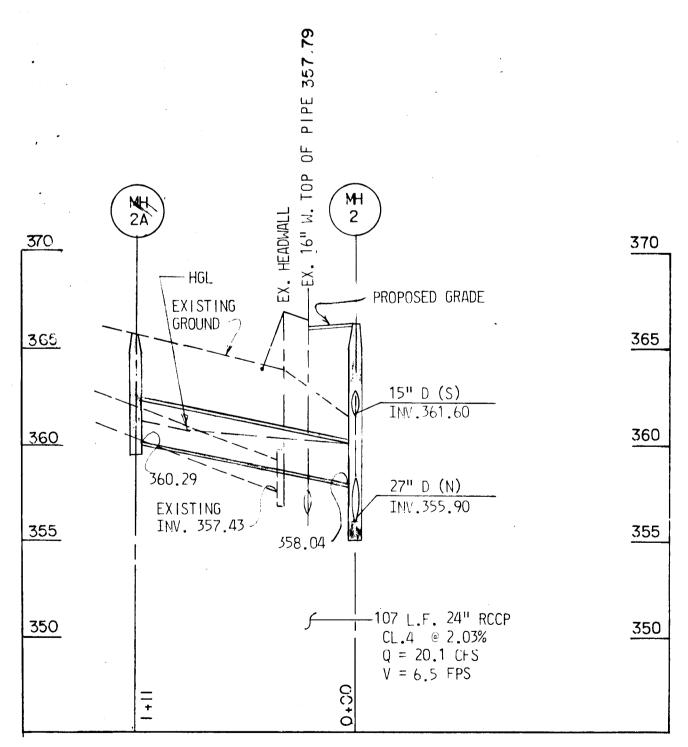
STORM DRAIN PROFILE (FOR PLAN SEE SHEET 5) SCALE: HOR. 1" = 50"VERT. 1" = 5"



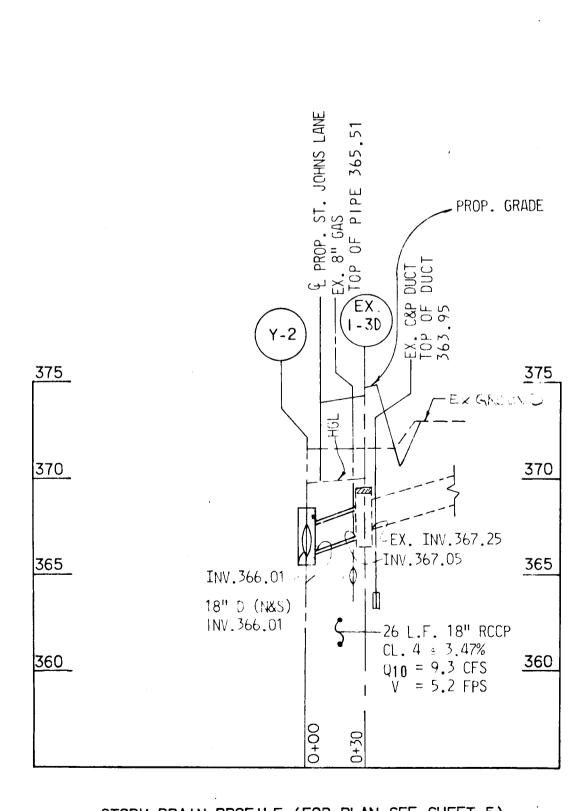
STORM DRAIN PROFILE (FOR PLAN SEE SHEET 5) SCALE: HOR. 1" = 50'VERT. 1" = 5'



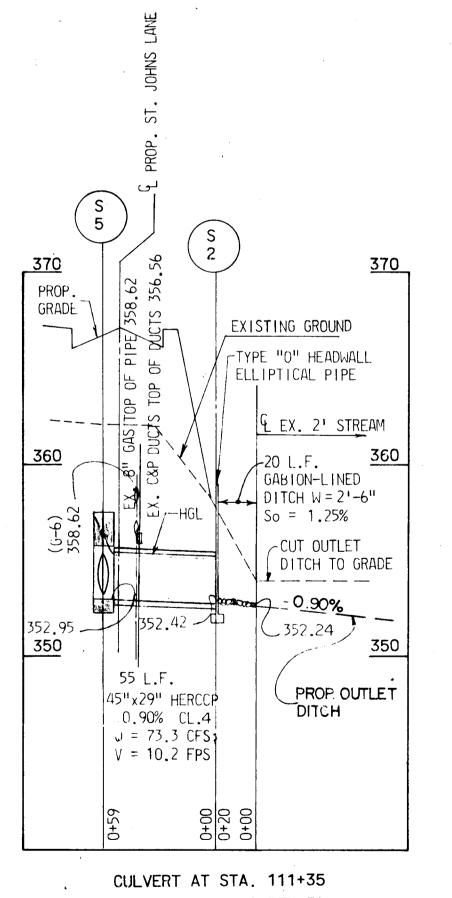
STORM DRAIN PROFILE (FOR PLAN SEE SHEET 6) SCALE: HOR. 1" = 50' VERT.1" = 5'



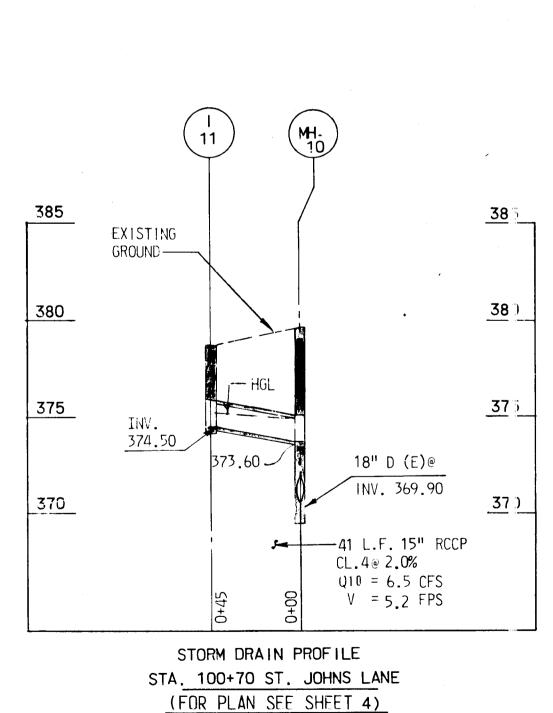
STORM DRAIN PROFILE (FOR PLAN SEE SHEET 5) SCALE: HOR. 1'' = 50'VERT. 1" = 5'



STORM DRAIN PROFILE (FOR PLAN SEE SHEET 5) SCALE: HOR. 1" = 50' VERT. 1" = 5'



(FOR PLAN SEE SHEET 5) SCALE: HOR. 1" = 50' VERT. 1" = 5'



SCALE: HOR. 1'' = 50'

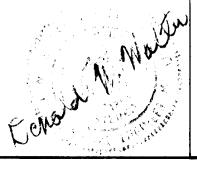
VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS DATE CHIEF-BUREAU OF ENGINEERING DATE CHIEF ROADS, BRIDGES, STORM DRAINAGE DIVISION DATE

KIDDE CONSULTANTS, INC.

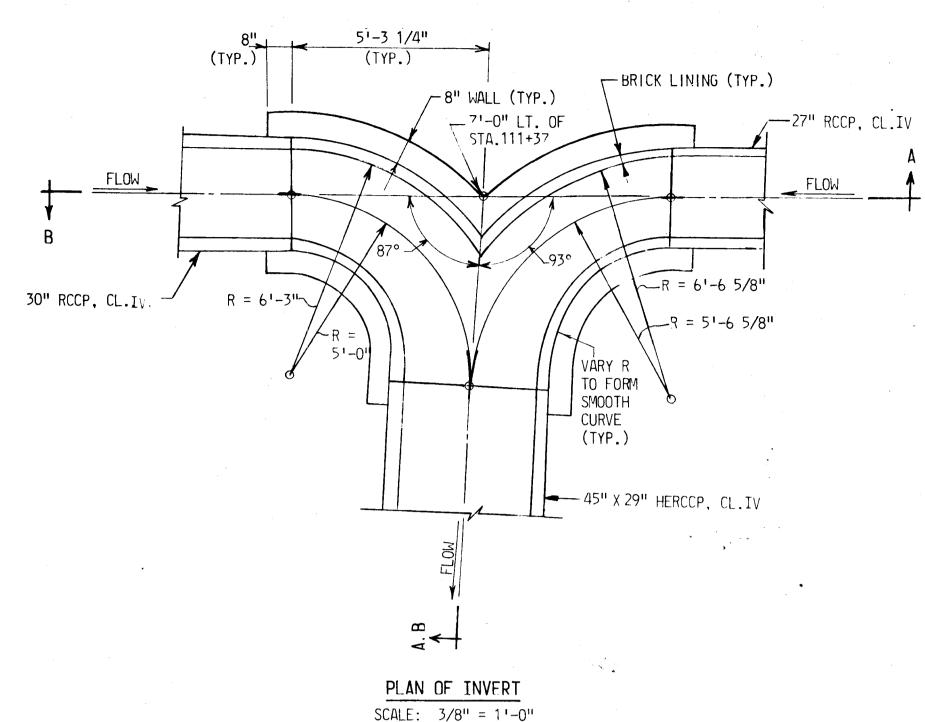
ENGINEERS • ARCHITECTS • PLANNERS BALTIMORE, MARYLAND

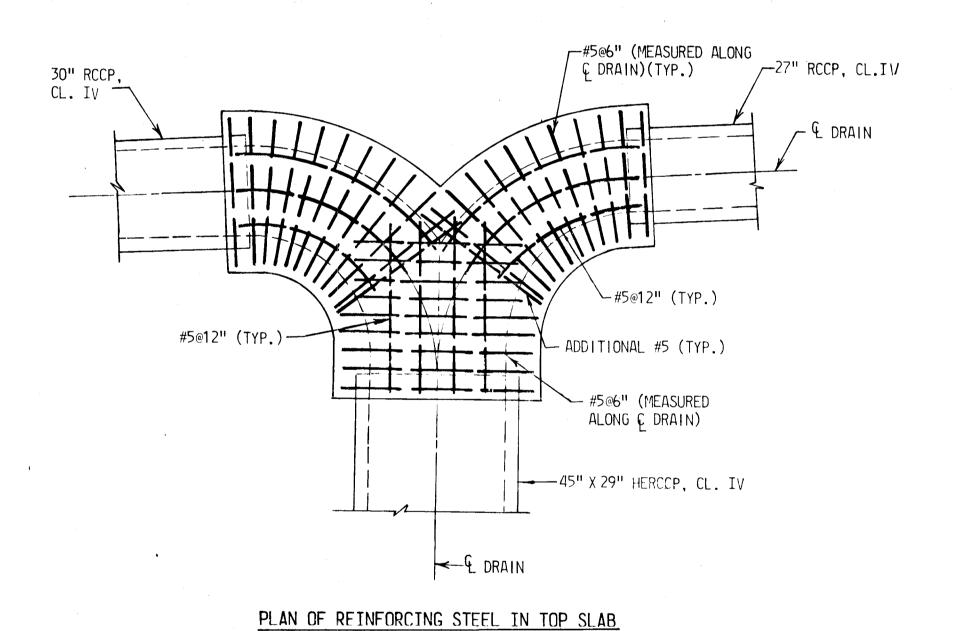


DRAIN PROFILES JOHNS LANE

ST. JOHNS LANE CAPITAL PROJECT NO. J - 4056

DRAWING D SIGNED BY SCALE NO. <u>8</u> AS SHOWN DHAFTED BY: OF <u>19</u> ELECTION DISTRICT NO. 2 J. K. D. BY: HOWARD COUNTY MARYLAND





SCALE: 3/8" = 1'-0"

8'-5 1/8" (MEASURED ALONG & DRAIN) FOR REINFORCING STEEL, SEE PLAN OF -10" SLAB REINFORCING STEEL IN TOP SLAB ¥500 00 12" CL. /-----EL.353.11 - BRICK LINING EL.352.95____ (LAY ON EDGE) -27" RCCP, CL.IV EL.353.0 45" X 29" HERCCP CL.IV ⁷— 8" SLAB SECTION A-A SCALE: 3/8" = 1'-0" 8'-1 1/2" (MEASURED ALONG & DRAIN) ┌─10" SLAB - EL.353.05 EL .352.95- -- BRICK LINING (LAY ON EDGE) 0.90% ─30" RCCP, CL.IV 45" X 29" HERCCP CL. IV ----/ L-8" SLAB

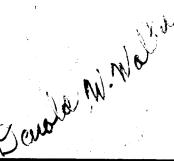
- 1. THE WALLS OF THE JUNCTION CHAMBER MAY BE CONSTRUCTED OF BRICK OR MIX NO. 3 CONCRETE AS SHOWN ON HOWARD COUNTY STD. NO. SD 1.01 AND 1.02.
- 2. THE TOP AND BOTTOM SLABS SHALL BE MIX NO. 3 CONCRETE. THE TOP SLAB SHALL BE REINFORCED IN ACCORDANCE WITH THE DETAILS SHOWN HERE. THE BOTTOM SLAB SHALL BE REINFORCED AS SHOWN ON HOWARD COUNTY STD. NO. SD 1.01 AND 1.02.
- 3. THE INVERTS AND SIDES OF THE JUNCTION CHAMBER SHALL BE BRICK LINED AS SHOWN ON HOWARD COUNTY STD. NO. SD 1.01 AND 1.02.

DETAILS OF STORM DRAIN JUNCTION CHAMBER AT STA. 111+37, 7' LT.

DEPARTMENT OF PUBLIC WORKS

KIDDE CONSULTANTS, INC.

ENGINEERS • ARCHITECTS • PLANNERS BALTIMORE, MARYLAND

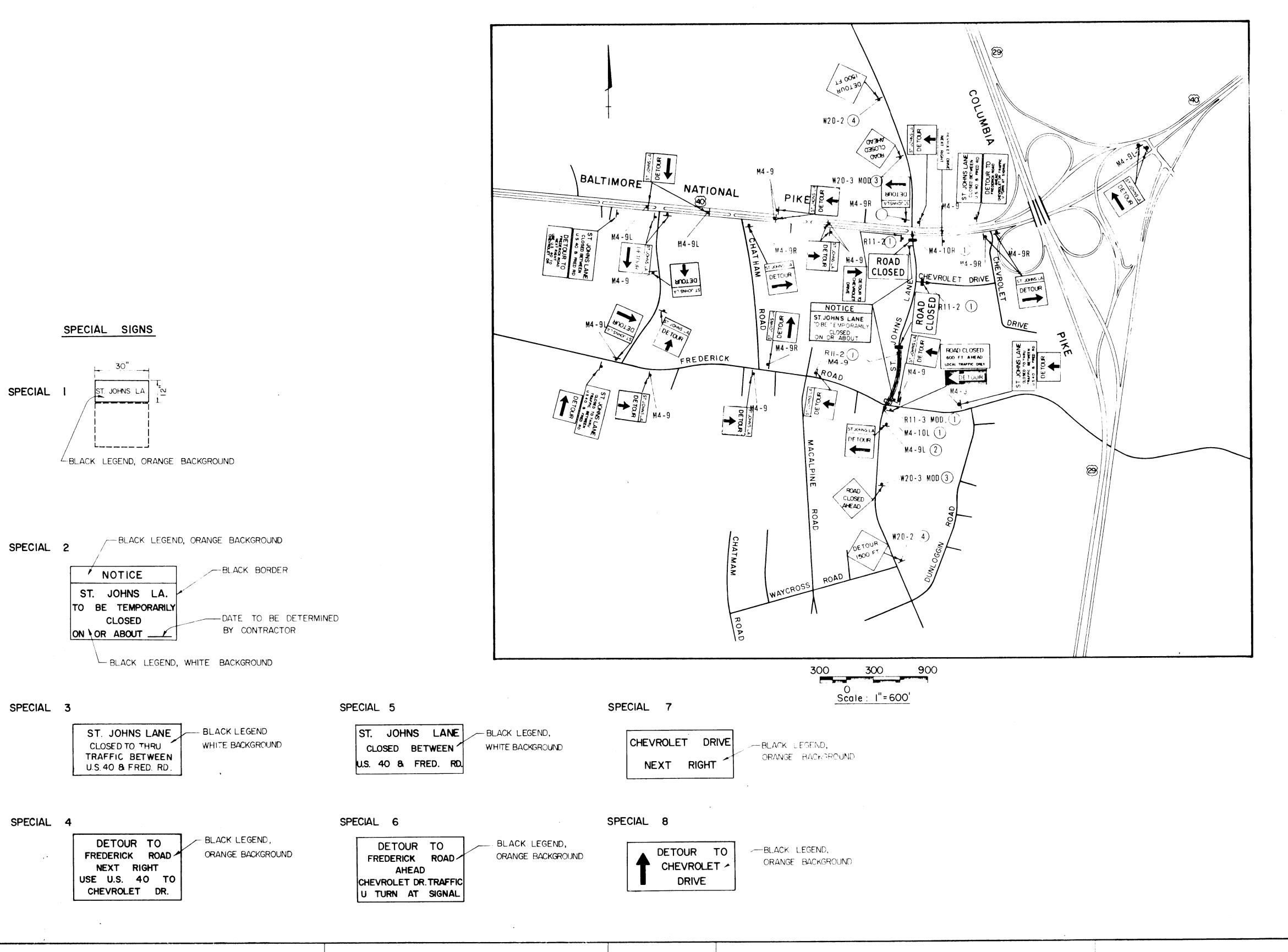


STORM DRAIN JUNCTION CHAMBER PLAN AND DETAILS ST. JOHNS LANE

CAPITAL PROJECT NO. J-4056

ELECTION DISTRICT NO. 2 HOWARD COUNTY MARYLAND

DRAWING SCALE NO. 9 OF 19 AS SHOWN



LEGEND

TYPE III BARRICADE - LEAVE 12' OPENING FOR LOCAL TRAFFIC

TYPE III BARR DE - BLOCK ENTIRE ROADWA .

SIGN POSTED OF ARRICADE SIGN POSTED ON SUPPORT

MAINTAIN LOCAL TRAFFIC FROM FREDERICK ROAD TO STATION 107+00

MATERIAL LIST

	MATERIAL LI	<u>ST</u>
DEVICE *	NL	IMBER REQUIRED
	1	(APPROX. 24' EACH)
-	3	(APPROX. 36' EACH)
911-2	3	
R11-3 (MOD.)	1	(600 FT AHEAD)
W20-2	2	(DETOUR 1500 FT)
W20-3 (MOD.)	2	(ROAD CLOSED AHEAD)
114-9	11	(STRAIGHT UP ARROW)
M4-9L	6	
M4-9R	7	
M4-10L	1	
M4-10R	1	
SPECIAL I	. 18	
SPECIAL 2	2	
SPECIAL 3	2	
SPECIAL 4	1	
SPECIAL 5	2	
SPECIAL 6	1	
SPECIAL 7	1	
SPECIAL 8	1	

* PLATES SHOWING DETAILS OF BARRICADES AND SIGNS ARE INCLUDED IN SPECIAL PROVISIONS.

NOTES

- ERECT ON TYPE III BARRICADE
- AT 100'
- 3 AT 800' 4 AT 1500'

REVISIONS J. E.
DES SNED BY DRAWING SCALE

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE CHIEF - BUREAU OF ENGINEERING DATE

CHIEF ROADS, BRIDGES, STORM DRAINS DIVISION DATE

KIDDE CONSULTANTS, INC.

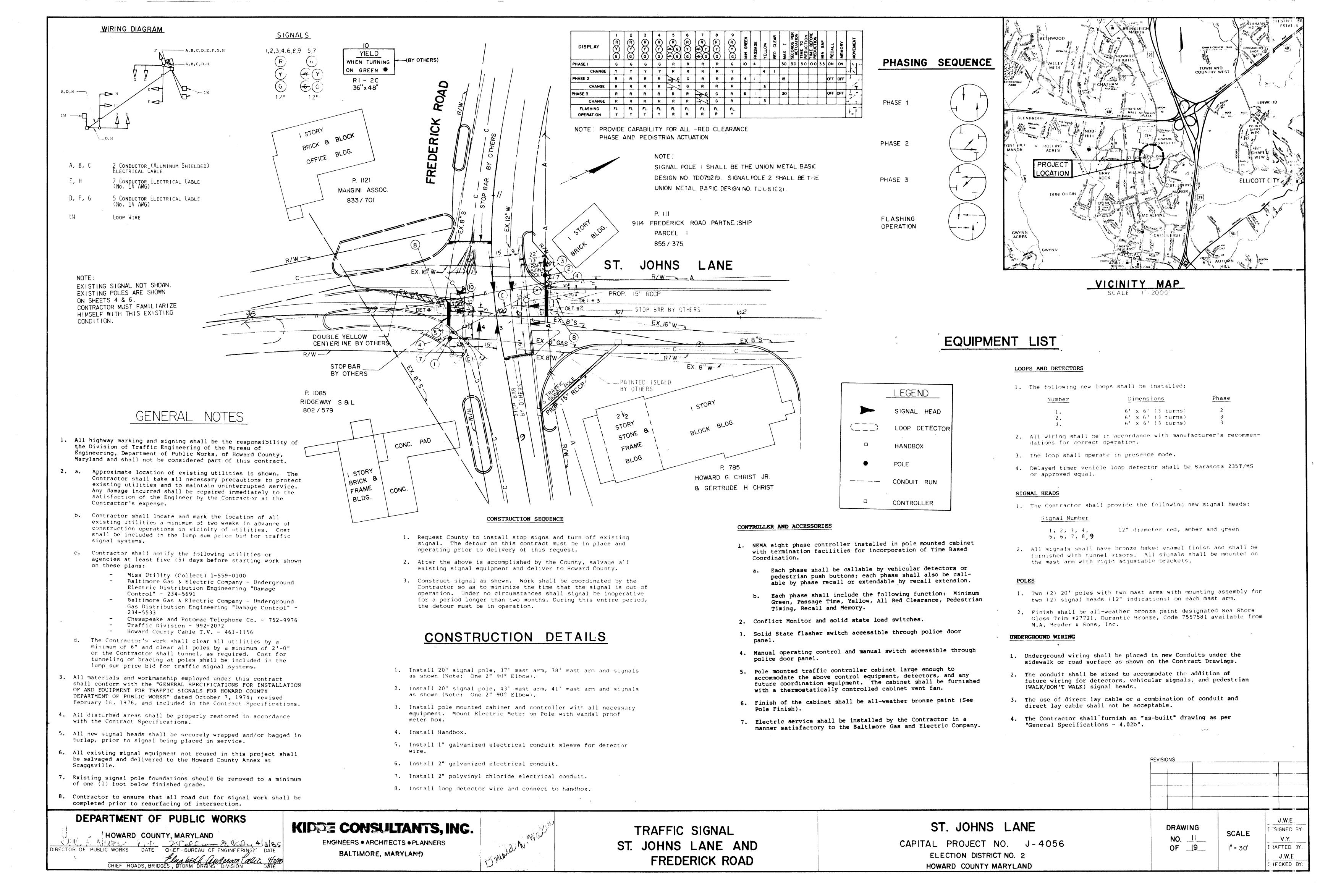
ENGINEERS • ARCHITECTS • PLANNERS BALTIMORE, MARYLAND

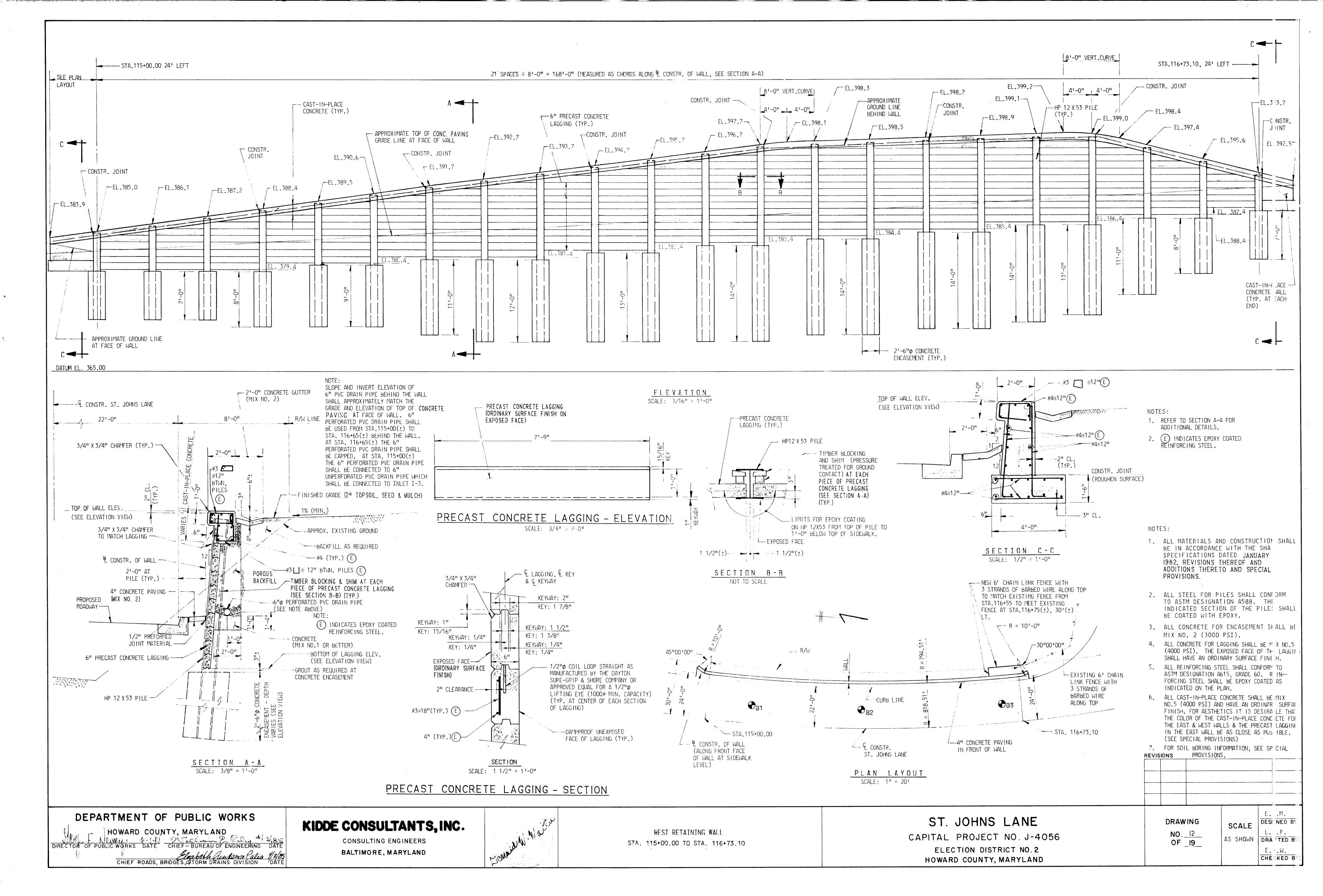
MAINTENANCE OF TRAFFIC

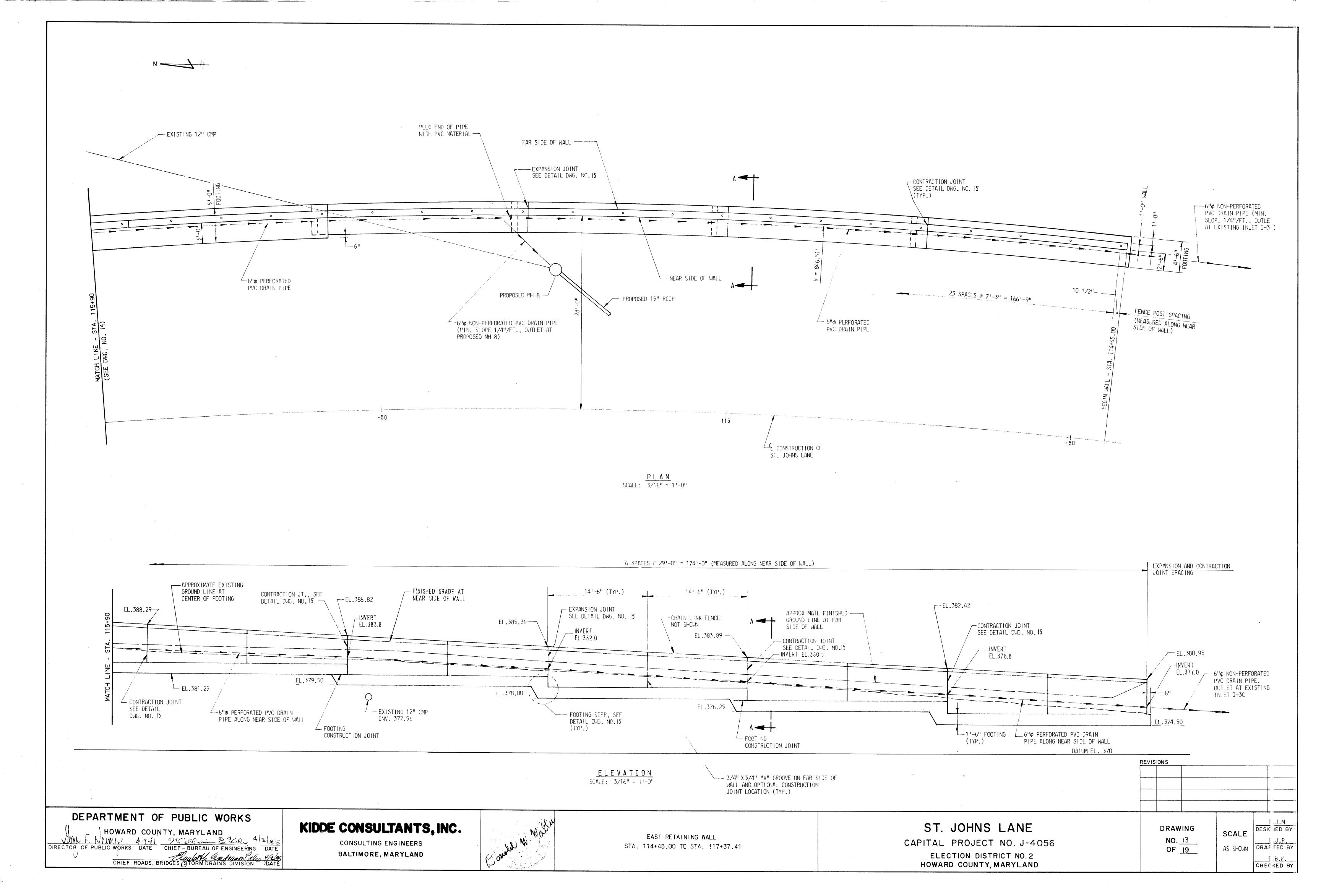
ST. JOHNS LANE

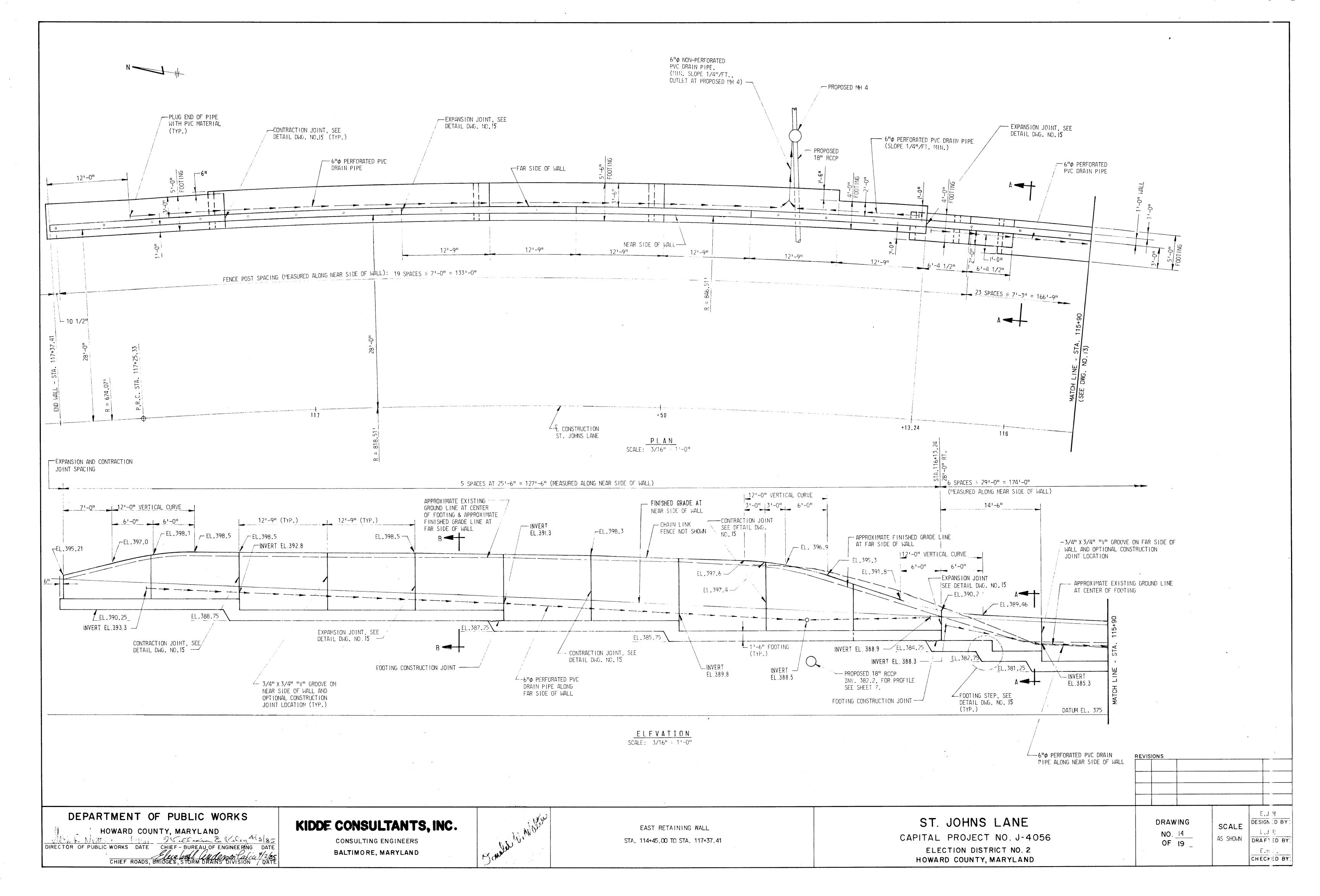
CAPITAL PROJECT NO. J-4056 ELECTION DISTRICT NO. 2 HOWARD COUNTY MARYLAND

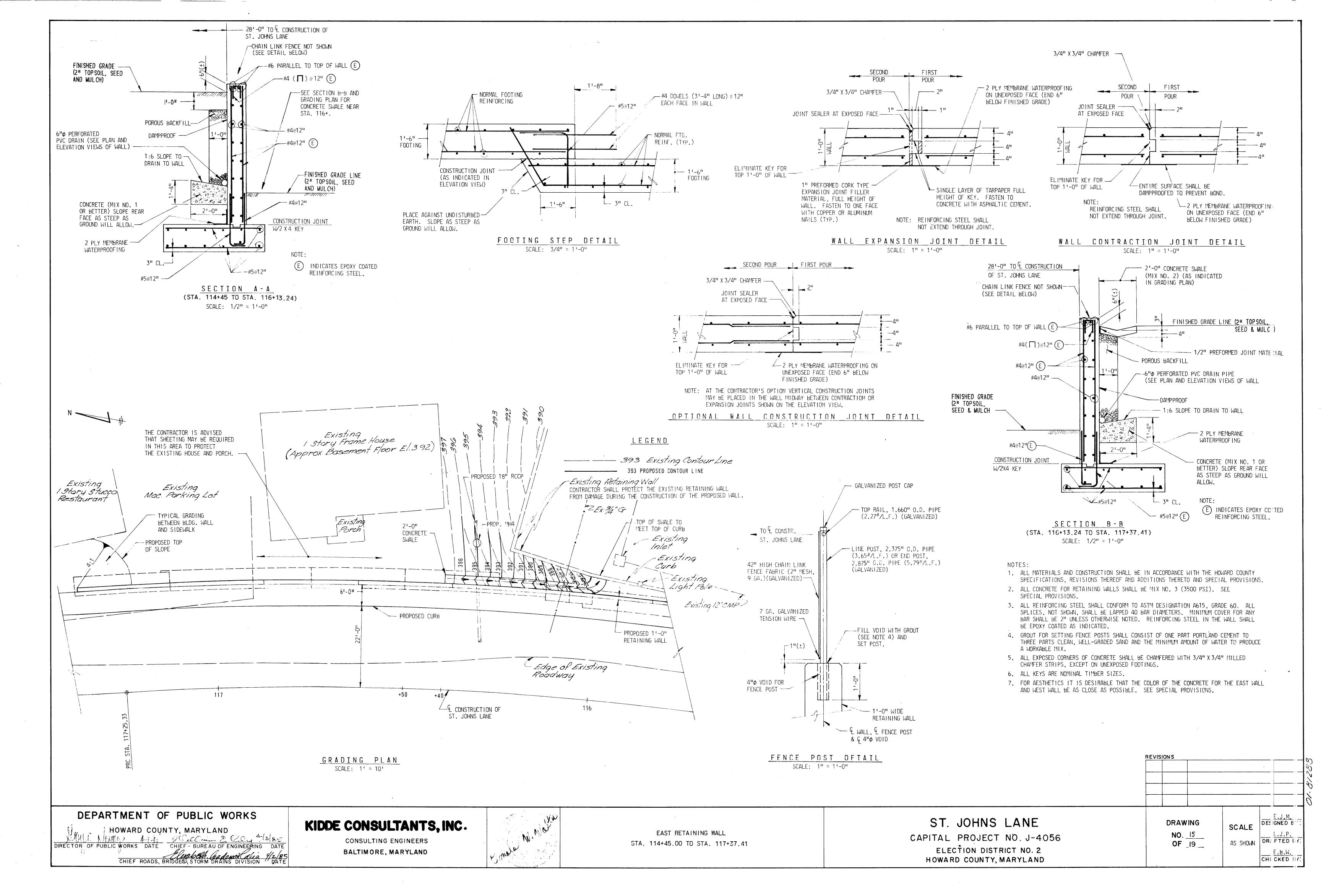
NO. . 10 DRA TED BY l" = 600' OF _12_ J. .. E.

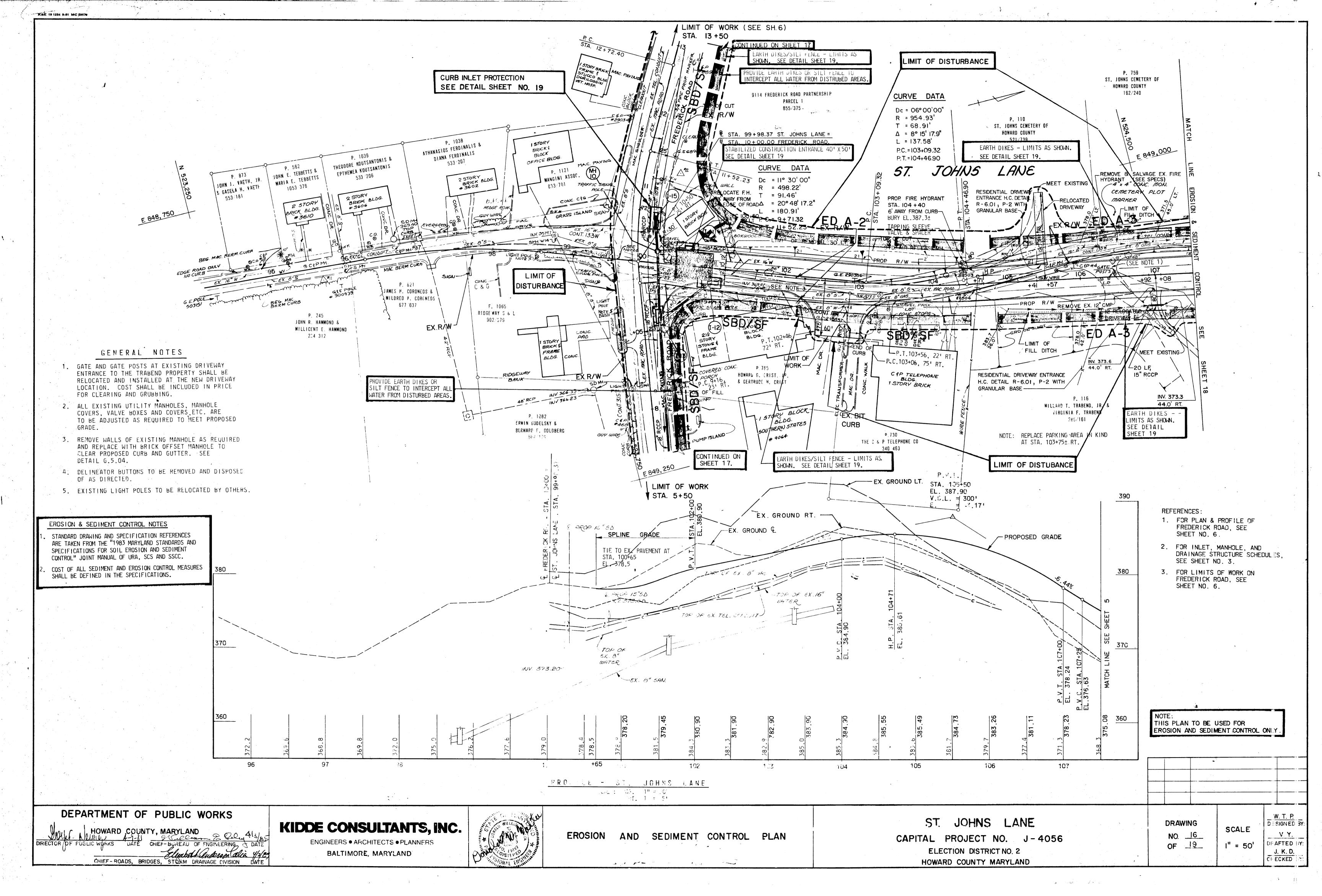


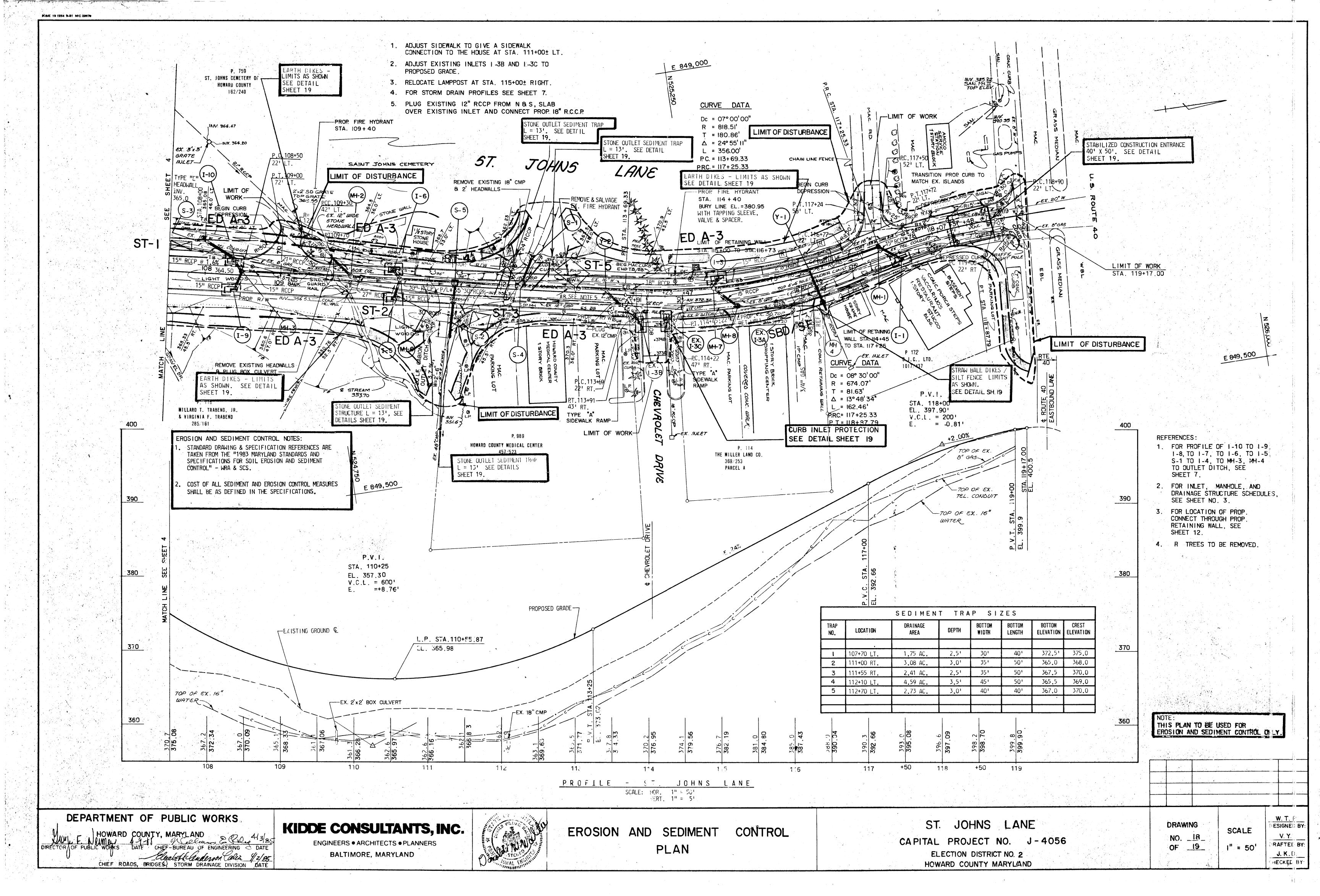


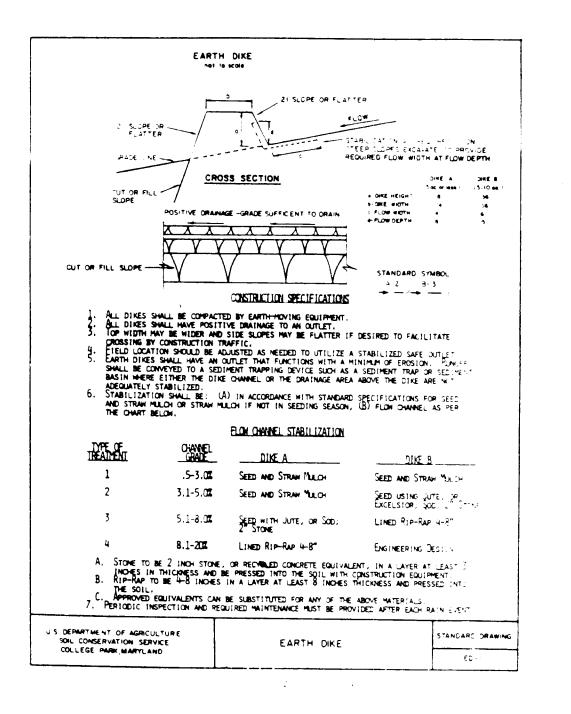


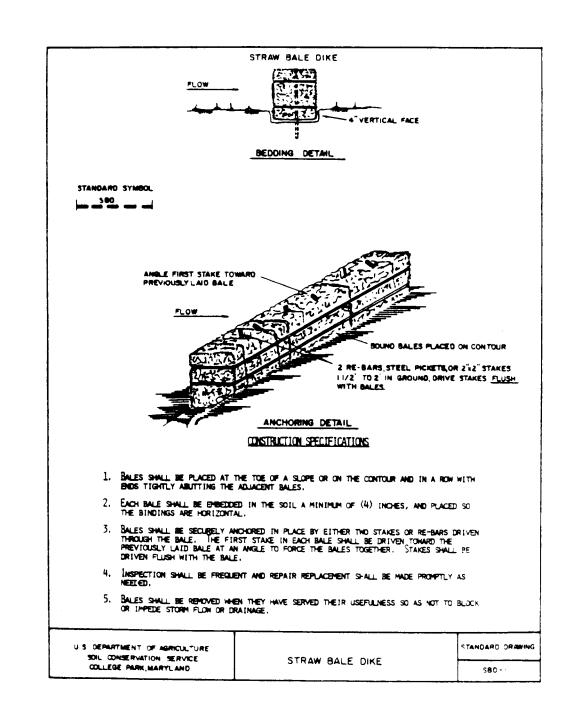


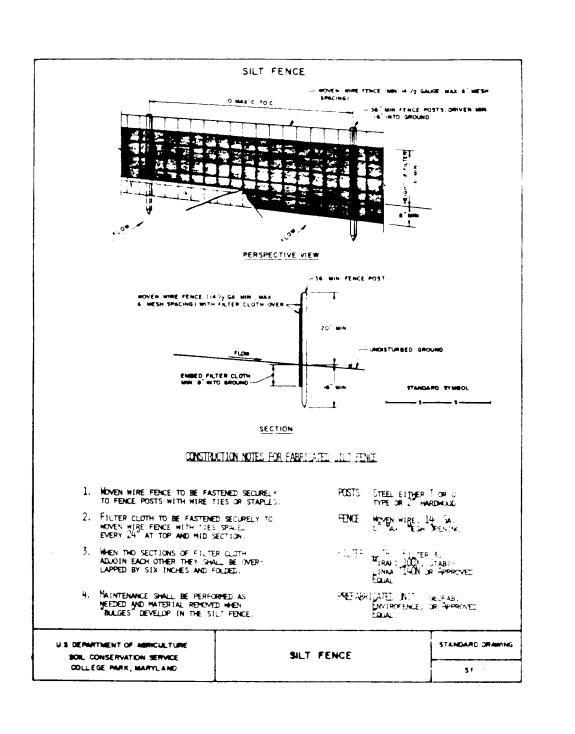


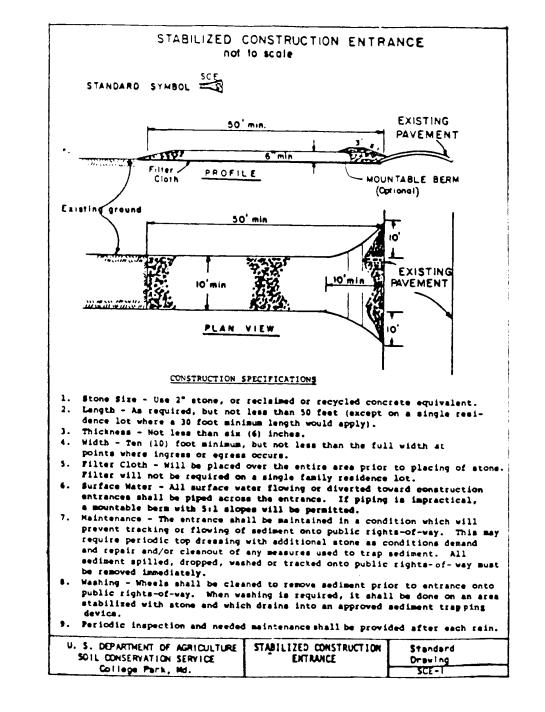


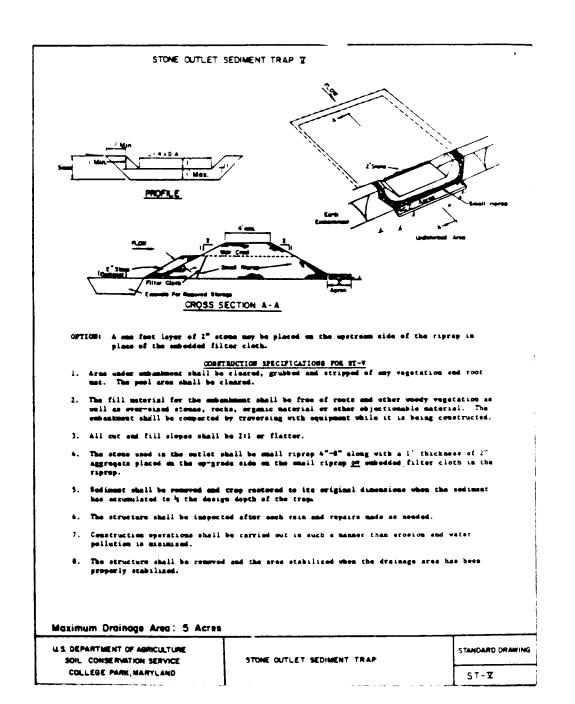








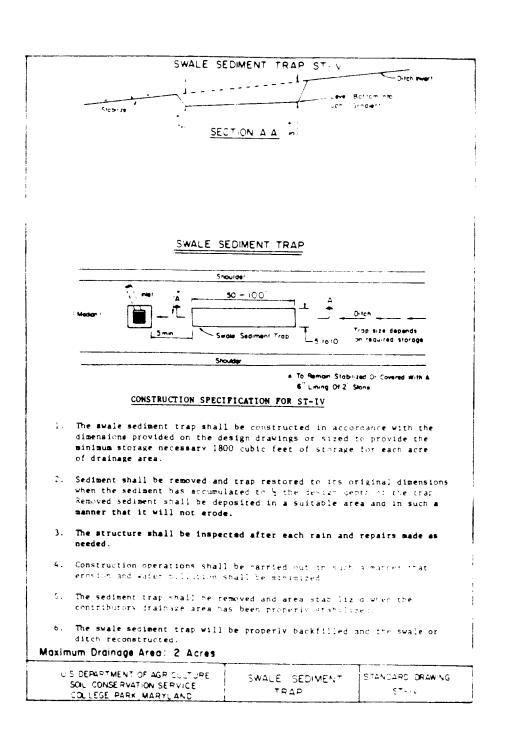


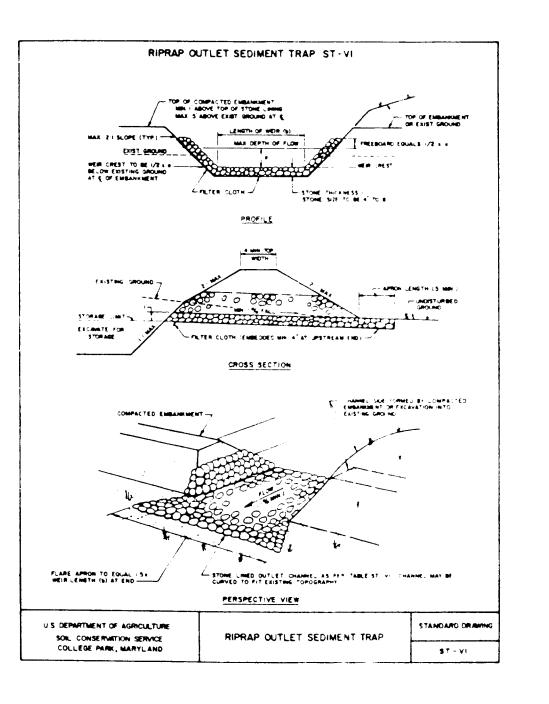


DATE CHIEF-BUREAU OF ENGINEERING

CHIEF-ROADS, BRIDGES, STORM DRAINAGE DIVISION

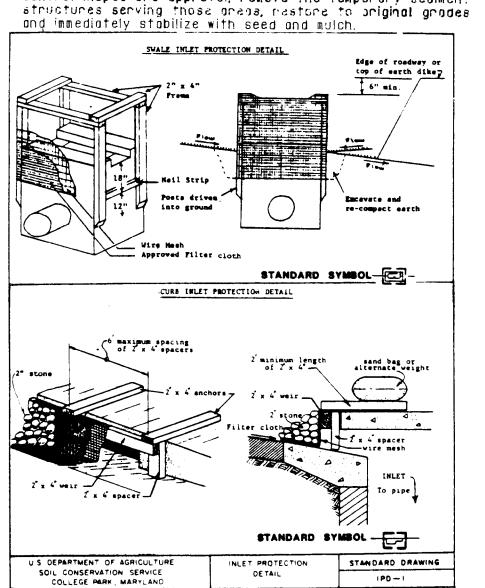
DIRECTOR OF PUBLIC WORKS





SEQUENCE OF CONSTRUCTION

- I. Clear and grub only those areas required for the construction of the dikes, sediment traps and stabilized construction entrances.
- 2. Construct stabilized construction entrances, construct and stabilize earth dikes and sediment traps.
- 3. Clear and grub remainder of site.
- 4. Proceed with grading, and utility construction within the protected area.
- 5. Proceed with roadway paving.
- 6. As contributing areas become stabilized with an established stand of grass and/or paving with Howard County, Sediment and Erosian Control Inspectors approval, remove the temporary sediment



SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Poward County Office of Inspections and Permits prior to the start of any construction (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 HARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL BORSION 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, 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 varning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN HAHUAL, Storm Drainage.
- 5) 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 SEDDIEPT CONTROL for permanent seedings (Sec. 51) sod (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 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:

Total Area of Site

Area Disturbed

Area to be roofed or paved

acres

acres

grading activity for placement of utilities must be repaired on the same day of disturbance.

9) Additional sediment controls must be provided, if

deemed necessary by the Howard County DPW sediment control inspector.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following sche ulc

- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc 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) 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 1bs per acre (1.4 1bs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thre July 31, seed with 60 1bs Kentucky 31 Tall Fescue per acre and 2 1bs per acre (.05 1bs/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 1bs. acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small g ain 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 asphal: on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Matinenance - Inspect all seeded areas and make needed repairs, replacements and

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetal live cover is needed.

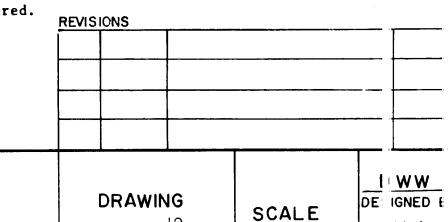
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 tru 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 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small trainstraw immediately after seeding. Anchor mulch immediately after application using sulch 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIME IT CONTROL for rate and methods not covered.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND KIDDE CONSULTANTS, INC.

ENGINEERS • ARCHITECTS • PLANNERS

BALTIMORE, MARYLAND



EROSION AND SEDIMENT CONTROL
DETAIL SHEET

ST. JOHNS LANE

CAPITAL PROJECT NO. J -4056

ELECTION DISTRICT NO. 2

HOWARD COUNTY MARYLAND