City of Westminster
Addendum #1
Project: RFB #21-05/Contract #R-287-C
September 21, 2020

Changes to Specifications:

1. **Bid due date and time are changed to Wednesday, September 30, 2020, 2:00 p.m. Eastern Standard Time. All references to the bid due date and time should be changed to the new date and time.**

Pre-Bid Meeting for Storm Drain Pipes Upgrade

Date: September 10, 2020 10:00 am

City of Westminster officials attending: Jeff Glass, John Dick, Mike Matov, Mike Zechman, Steve Strawsburg, Steve Owens, Ralph McElhinney

Bidders attending: Refer to attached sign-in sheets

Pre-bid Meeting Minutes:

1. Bidders must use the bid forms provided. All pricing must be provided including the base bid, unit prices, and alternate prices.

2. The total base bid must include the unit prices enumerated on the bid form in the total lump sum base bid figure.

3. Bids must be accompanied by an executed Bid Bond in the amount of 10%.

4. Contract time for completion is 90 days, with $100.00 per consecutive calendar day as liquidated damages.

5. Award will be based on Bid Amount, Bidder Qualifications, and References

6. Any bid addenda will be posted on the City website at http://www.westminstermd.gov/bids.aspx.

7. Prospective bidders who have questions regarding this Request for Bids should email their questions Bids.Stormdrain@westgov.com. The closing time for submission of questions is 4:30 p.m. on September 16, 2020. All questions and the associated answers will be posted on the City website at http://www.westminstermd.gov/bids.aspx.

8. To receive notification that information regarding this Request for Bids has been posted to the City website, bidders are encouraged to register with the City by providing their firm name, name of firm representative, and email address for the firm's point of contact to Bids.Stormdrain@westgov.com.

Questions Submitted by Bidders:

1. **Question:** Were pipes televised and are the condition of the pipes known?
   Answer: The pipes were videoed several years ago and contractor should verify on their own if more current video is needed.

2. **Question:** Are there any constant flows?
   Answer: Yes, along Cranberry Road has a small steady flow and should be verified**.**

3. **Question:** Are there Union requirements for this job?
   Answer: No

4. **Question:** Are there any drawings or location maps?
   Answer: Yes, as-built drawings and maps are attached. Reliance on as-built drawings are at the risk of the potential bidder, as the City was not involved with the original installation.

5. **Question:** Can UV curing be accepted?
   Answer: All alternative methods are at bidders' discretion for their bids.

6. **Question:** Can waste water for lining be pumped to sanitary sewer?
   Answer: Yes.

7. **Question:** Is the City interested in taking care of removing and re-installing the manhole cone sections and inlet top with its own forces?
   Answer: The City is not interested in taking care of removing and re-installing the manhole cone sections and inlet top with its own forces. Please include the pricing for the same in your bid.

8. **Question:** Will the Owner/Engineer accept a pull in place CIPP liner that is cured by UV light as an alternative to the Hydrostatic Head and Air Inversion liners cured by hot water and steam, respectively as currently called for in Section IV. Specifications Paragraph 5.04 A & B?
   Answer: Yes.

9. **Question:** What are the prevailing wage rates for this project?
   Answer: There are no prevailing wages required for this project.

10. **Question:** Is the unpotable water to be obtained from the treatment plant filtered? Will there potentially be solids that will need to be removed from the water source?
    Answer: Unpotable water from the WWTP is unfiltered and could contain small amounts of suspended solids.

11. **Question:** Is Hydrotite an adequate product to be used for end seals?
    Answer: Please contact liner manufacturer for instructions.

12. **Question:** Is the prep work necessary to get the pipe into a condition adequate to be able to install the liner incidental to the lining bid-item price?

    Answer: Yes.

Attachments:

1. Pre-bid sign in sheets
2. Handout from Pre-bid meeting
3. Various as-built drawings

City of Westminster, Maryland
Storm Drain Pipes Upgrade
City Project # R-287-C

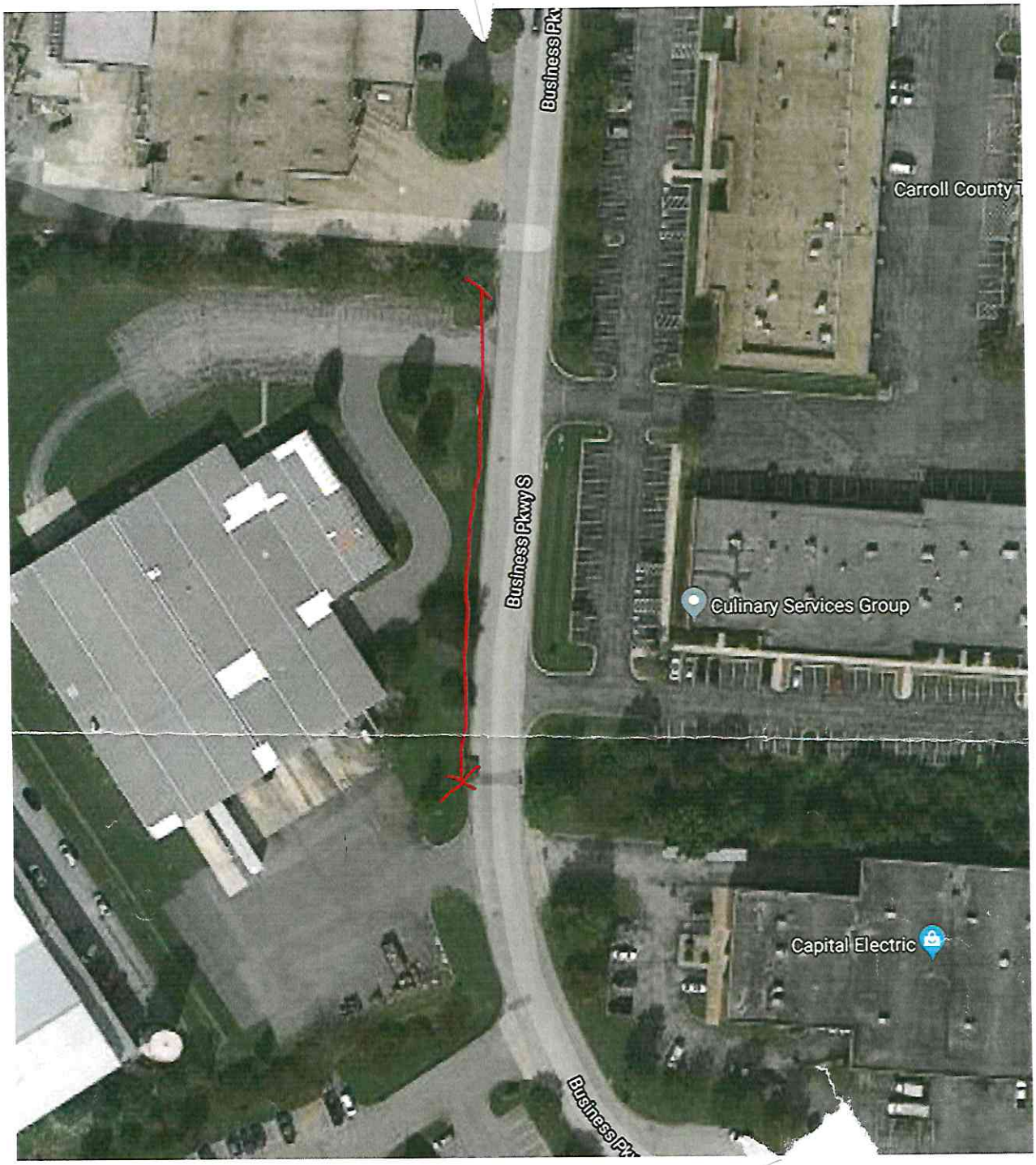
Pre-bid meeting: September 10, 2020at 10 am
City Hall 1823 Emerald Hill Ln. Westminster MD 21157

Name & Title	Company Name & Address	Phone Number	Email Address
Victor Howard Chief Estimator	Spiniello Co 3500 E. Biddle St Balt. MD 21213	410-235-0094 x 220	estimating@spiniellocо.com
MEL WILLETT AM-LINER	AM-LINER EAST 601 JACKENDOFF BLVD BERRYVILLE, VA 22611	703- 998-5109	MWILLETT@ AMLINEREAST.COM
Stephen Thomas Pleasants	Pleasants Construction 24024 Frederick Rd Clarksburg, MD 20871	301-428-6800	Sthomas@pleasantsconstruction.com
DONALD MORAN SUPERINTENT	SPINIELLO CO 3500 E. BIDDLE ST BALTIMORE MD 21213	973-651-9806	ESTimating@spiniellocо.com ESTIMATING@ SPINIELLOCO.COM
DAVID LOVE Proj. MGR	MR. REHAB 3 LONG LANE MECHANICSBURG, PA 17050	717-226-1531	DLOVE@MRREHAB.COM
JIM CLARK PRES.	" "	" "	" "
Jeremy Blevins Project Manager	Insituform Technologies 709 E. Ordnance Rd Suite, 501 Baltimore, MD, 21226	443-602-5604	jblevins@aegion.com

City of Westminster, Maryland
Storm Drain Pipes Upgrade
City Project # R-287-C

Pre-bid meeting: September 10, 2020at 10 am
City Hall 1823 Emerald Hill Ln. Westminster MD 21157

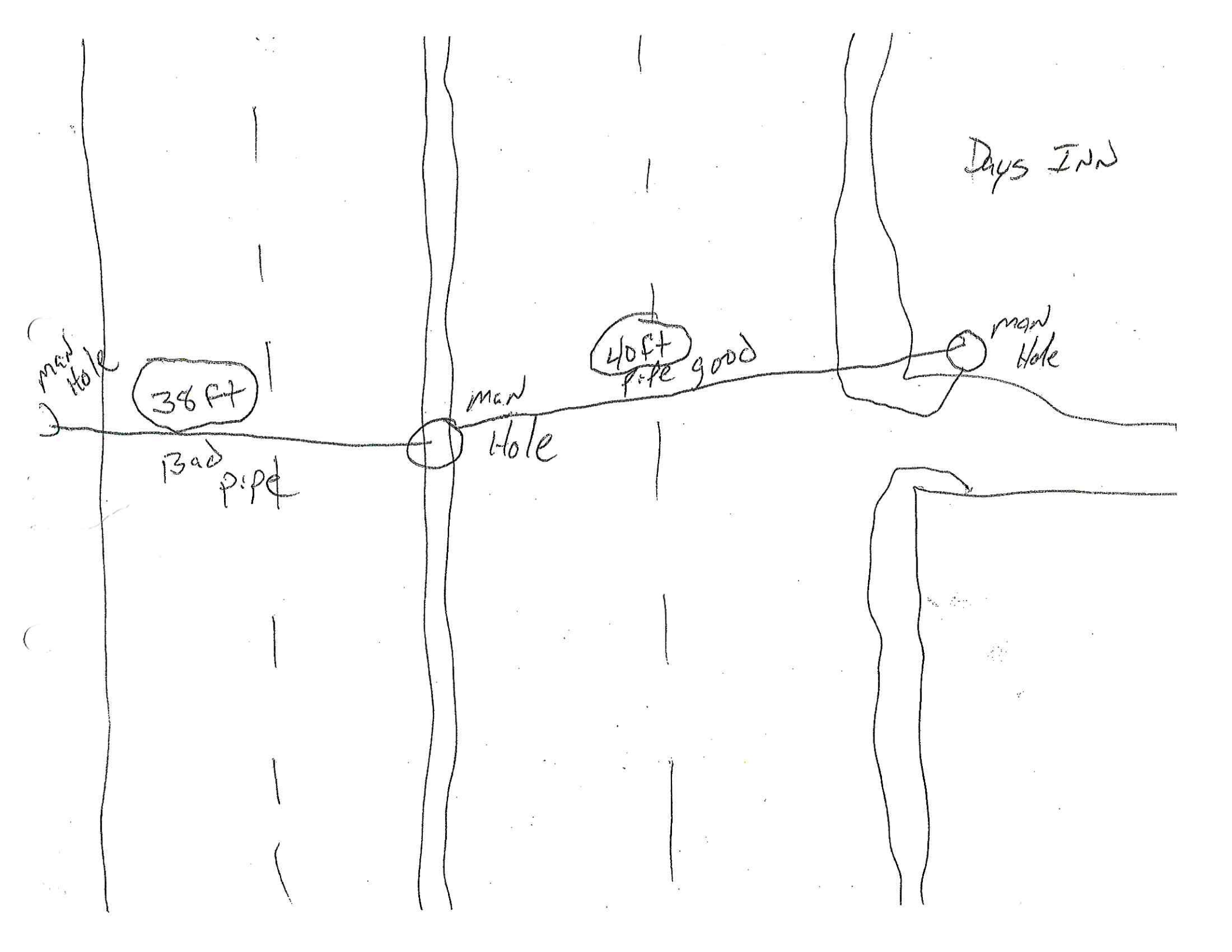
Name & Title	Company Name & Address	Phone Number	Email Address
Jeremie Bob Super	567 Walther Rd Newark De 19702	302 377 6364	Jeremieb@standardpipeservices.com



Location: Business Pkwy South

Pipe Diameter: 36" Corrugated Metal

Pipe Length: 335' Catch basin to manhole


Days INN
man Hole
36 ft
Bad pipe
man Hole
40ft pipe good
man Hole

GENERAL NOTES:

1. The work within the shaded areas on the plans is not included in the bid but all or part may be added after award of the contract. See Special Provision.
2. Existing topography is based on surveys dated April, 1978. Due to the construction activities at the Air Business Center site, the present topography may vary from what is shown on the plans.
3. The Standard Details are found in the specifications.
4. All pipe elevations shown are invert elevations.
5. The approximate locations of existing utilities are shown. The Contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted services. Any damages incurred due to the Contractor's operations shall be reported immediately to the Contractor's expense.
6. All utilities shall be covered by a minimum of 8". All utility poles shall be cleared by a minimum of 2'-0" or trenched if required. Cost for trenching or braceing poles shall be included in the unit prices bid for excavation and backfill for water and sewer mains.
7. The Contractor shall locate existing utilities in advance of construction operations in the vicinity of proposed utilities.
8. The Contractor shall notify the following utilities or agencies at least five (5) days before starting work shown on these drawings:

   State Highway Administration - 831-5533
   Baltimore Gas and Electric Company - Underground Electric Distribution Engineering - Owings Control - 234-5661
   Chesapeake and Potomac Telephone Co. - 728-6878
   Miss Utility - 559-0100

9. The Contractor shall 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.
10. When working within the right-of-way of MD Route 140, the Contractor shall comply with all regulations contained in the MD State Highway Permit.

WATER MAINS:

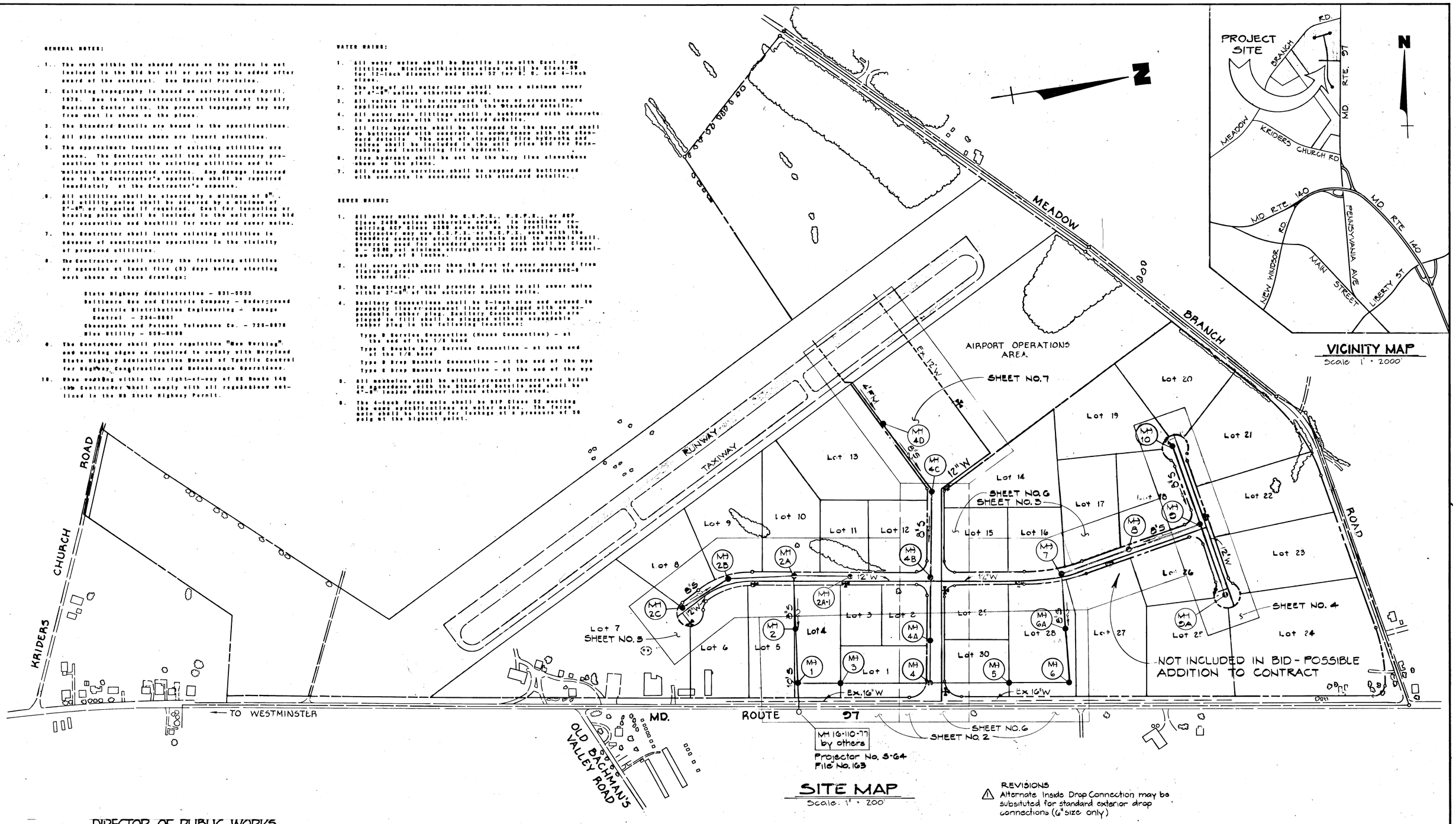
1. All water mains shall be Ductile Iron with Cast Iron Fittings, Pressure Class 250 for 4" to 12" D.I.P. and Class 52 for 16" D.I.P. and 4-inch sizes.
2. The top of all water mains shall have a minimum cover of 4'-6" unless otherwise noted.
3. All valves shall be oriented to open or operate where practicable in accordance with the standard details.
4. All water main fittings shall be buttressed with concrete in accordance with the standard details.
5. All fire hydrants shall be attached to the mains and shall be buttressed with concrete in accordance with the standard details. Fire hydrants shall be installed in accordance with the standard details and the manufacturer's instructions and shall be painted with two coats of yellow paint and installed with the nozzle facing the road. Contractor shall install thrust blocks and restraining and tie rods on all fire hydrants.
6. Fire hydrants shall be set to the bury lines elevations shown on the plans.
7. All dead end mainlines shall be capped and buttressed with concrete as hereinabove and in standard details.

SEWER MAINS:

1. All sewer mains shall be S.D.R.35, V.C.P. or ASTM C-425 pipe with push-on joints. All manholes to be precast concrete sections conforming with ASTM C-478. Manhole bases shall be precast concrete with a minimum wall thickness of 6" and have a minimum diameter of 48" for manholes 10'-0" deep or less and 60" for manholes 10'-0" to 20'-0" deep. Manhole cones shall be eccentric and have a minimum diameter of 24" and have a maximum slope of 6 inches.
2. All sewers with more than 10 feet of cover measured from finished grade shall be placed as the standard SHEET-8 shows otherwise.
3. The Contractor shall provide a joint in all sewer mains within 2'-0" of the exterior building walls.
4. Sanitary Connections shall be 6-inch size and extended to property line or easement line and shall be provided with a capped plug or fitting. Sanitary connections shall be provided at the following locations:

   Type A Service Connection (House Connection) - at the end of the 1/8 bend
   Type C Double Wye Service Connection - at each end of the 1/8 bend
   Type B Wye Manhole Connection - at the end of the wye
   Type C Wye Manhole Connection - at the end of the wye

5. All manholes shall be either precast concrete or brick in accordance with the standard details and shall be of the inside drop exterior connection method.
6. The 4-inch force main shall be DIP class 52 meeting the requirements of the latest AWWA C151 specification and shall be tested at a pressure of 50 psig at the highest point.



REVISIONS
1. Alternate Inside Drop Connection may be substituted for standard exterior drop connections (6" size only)
2. Gate valves shall be placed on each lot water service connection at the property line. The valve size shall be equal to the service line diameter.

DIRECTOR OF PUBLIC WORKS

JOHN L. ARMACOST — DATE 4-18-79

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 — 301/837-0194

STATE OF MARYLAND — Professional Engineer and Land Surveyor
William G. Rasch II No. 4575

COUNTY COMMISSIONERS OF CARROLL COUNTY

CARROLL COUNTY AIR BUSINESS CENTER

WESTMINSTER, MARYLAND

AS BUILT 7-21-80

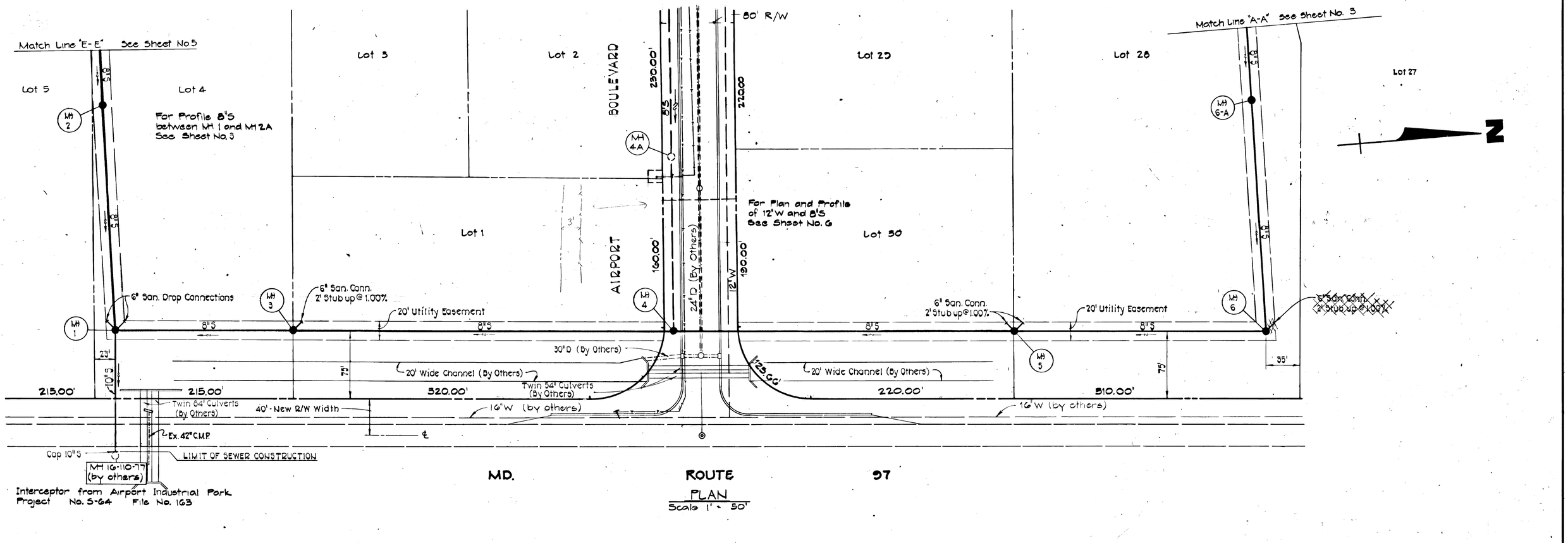
WATER AND SEWER PLAN AND PROFILE
DECEMBER 1,1978

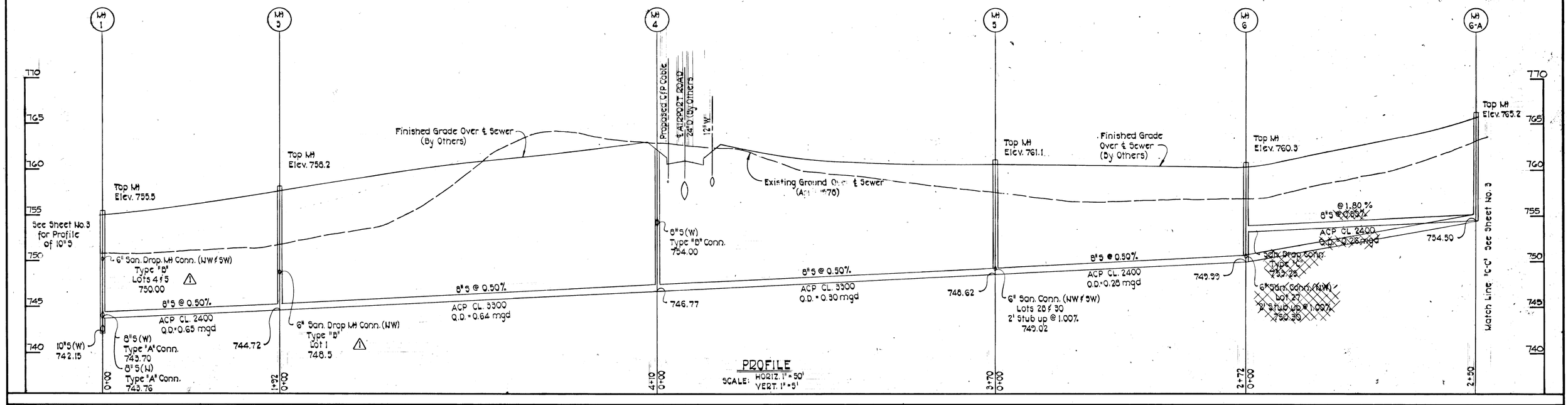
SHEET NO. 1

#2858

BRUNING ANE 1M3-2

4-B-4





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

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

STATE OF MARYLAND — William G. Rasch II — Professional Engineers & Land Surveyors — No. 4575
William G. Rasch II No. 4575

REVISIONS
1. Alternate Inside Drop Connection may be subsituted for standard exterior drop connections (6" size only)
2. Gate valves shall be placed on each lot water service connection at the property line. The valve size shall be equal to the service line diameter.
3. Revised Sewer Alignment: Manhole 16-110-77 to Manhole 2-A; Manhole 1 to Manhole 7; Manhole 4 to Manhole 4-A; Revised SWM Pond to Channel (By Others); Revised Drains (By Others)

AS BUILT: 7-21-80

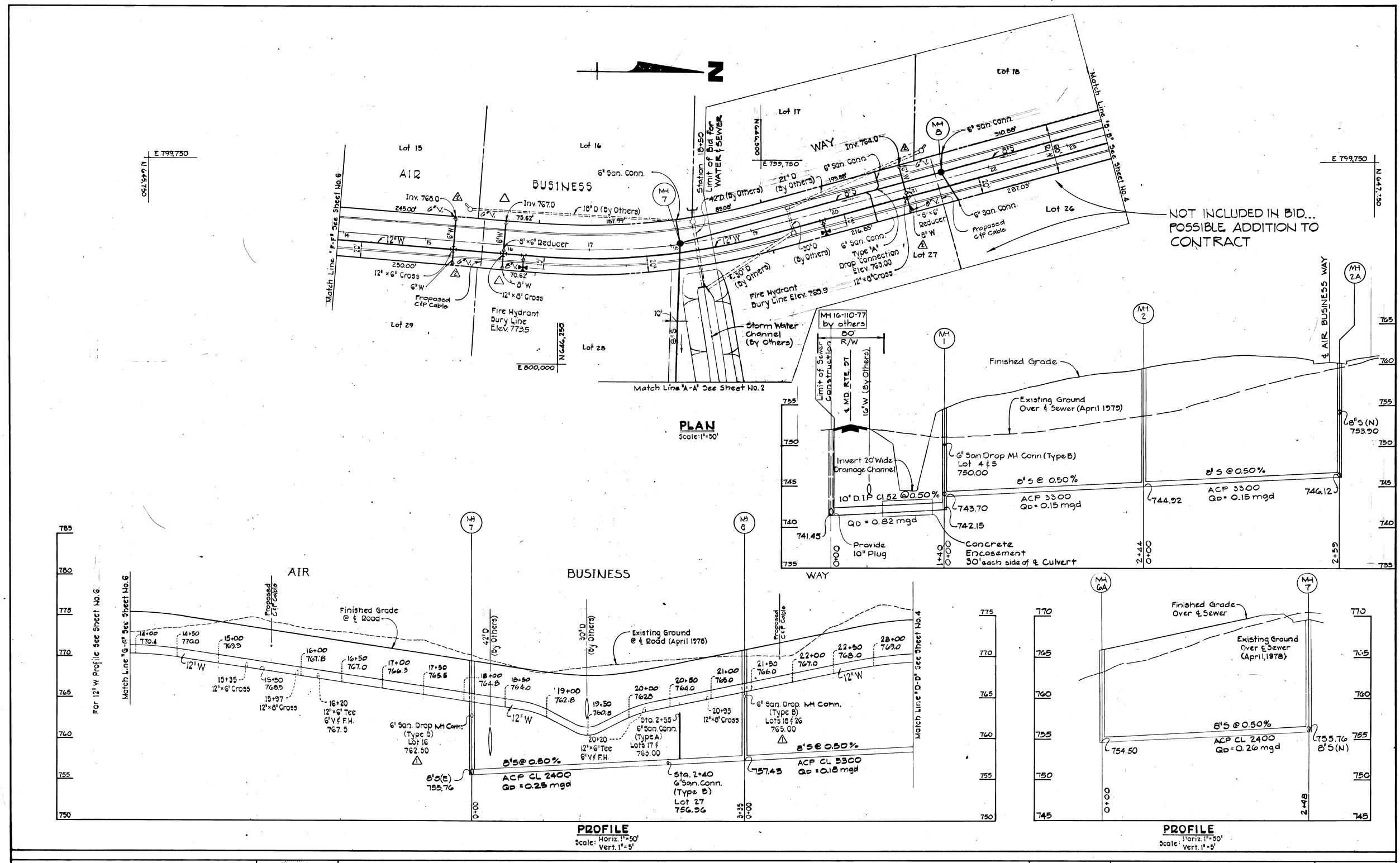
LATEST REVISIONS Sept. 13, 1979

PLAN AND PROFILE
WATER AND SEWER
CARROLL COUNTY
AIR BUSINESS CENTER
WESTMINSTER MARYLAND
SCALE: AS SHOWN APRIL 20, 1979

SHEET NO. 2

#2859
BRUNING ANE 1142-2

4-B-4



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Baltimore, Maryland 21202 301/837-0194

William G. Rosch II No. 4575

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MH 16-110-77 to 2A
MH 1 to MH 7
MH 4 to 4A
Revised SWM Pond to Channel (By Others)
Revised Drains (By Others)

AS BUILT: 7-21-80

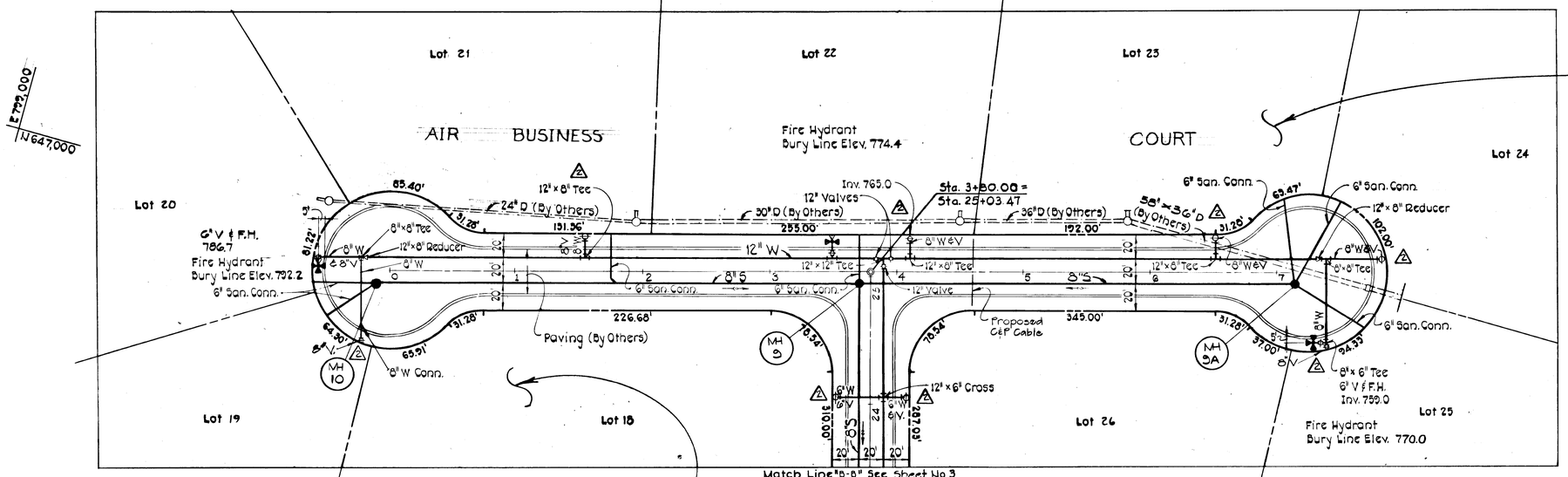
Latest Revisions
Sept 13, 1979

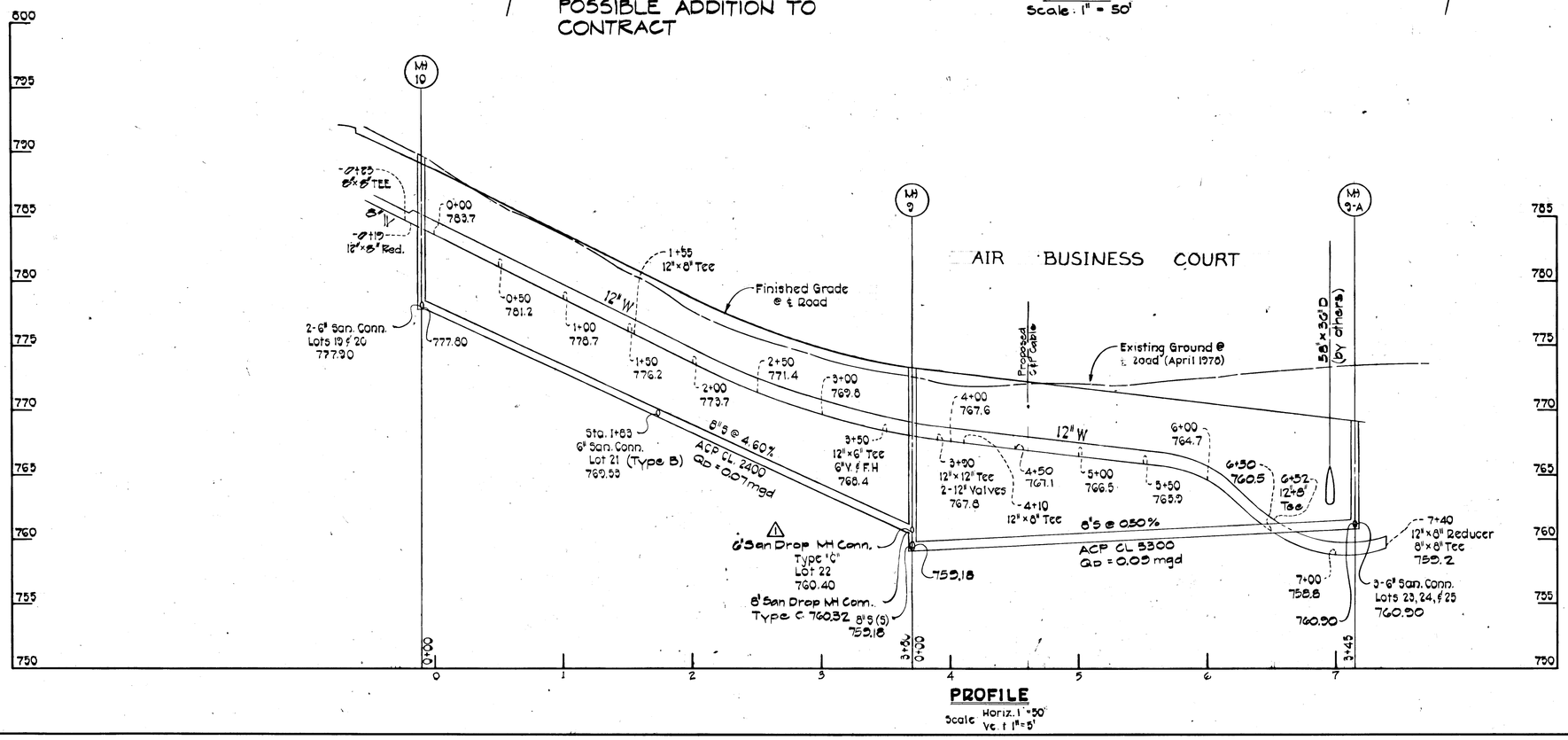
PLAN AND PROFILE
WATER AND SEWER
CARROLL COUNTY
AIR BUSINESS CENTER
WESTMINSTER MARYLAND
SCALE: AS SHOWN APRIL 20, 1979

SHEET NO. 3

#2860

4-B-4





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STATE OF MARYLAND — WILLIAM G. ROSCH II — No. 4575 — REGISTERED — PROFESSIONAL ENGINEER AND LAND SURVEYOR
William G. Rosch II No 4575

REVISIONS
⚠1 Alternate Inside Drop Connection may be substituted for standard exterior drop connections (6" size only)
⚠2 Gate valves shall be placed on each lot water service connection at the property line. The valve size shall be equal to the service line diameter.

AS BUILT: 7-21-80

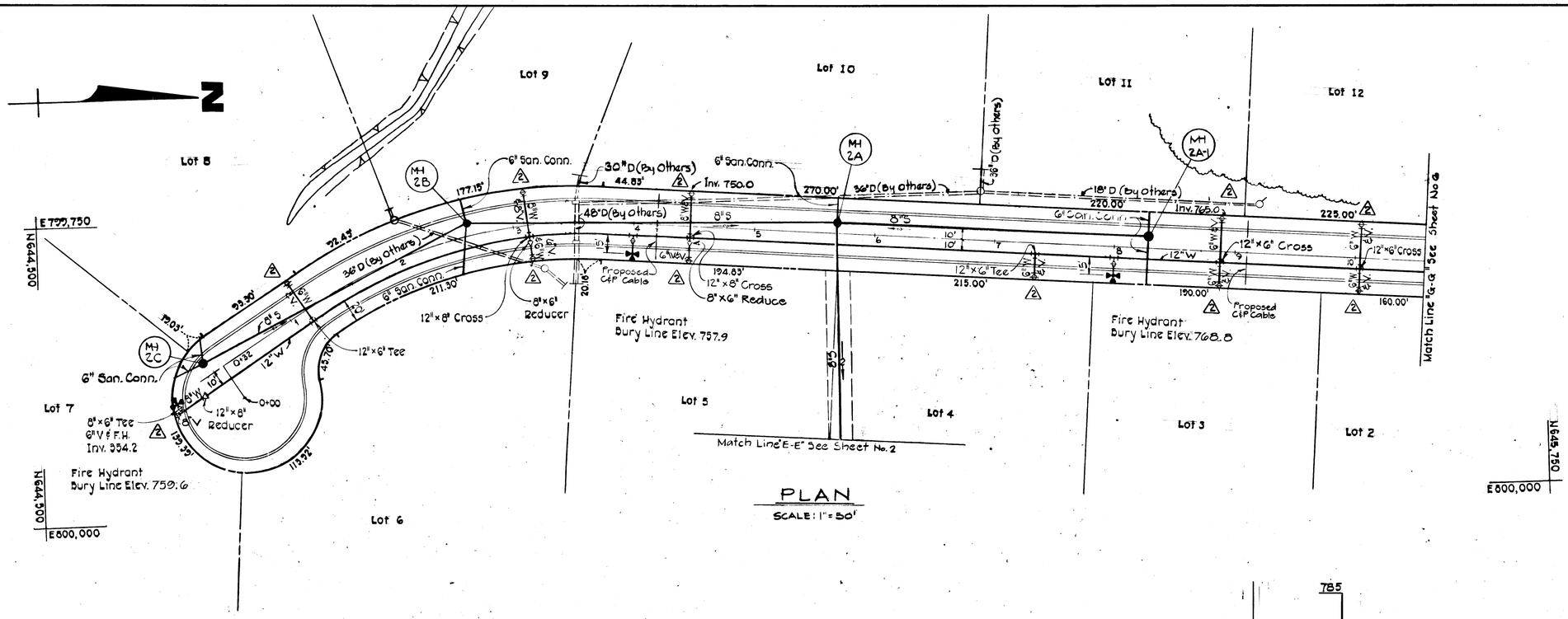
Latest Rev. Sept. 13, 1979

PLAN AND PROFILE
WATER AND SEWER
CARROLL COUNTY
AIR BUSINESS CENTER
WESTMINSTER MARYLAND
SCALE: AS SHOWN APRIL 20, 1979

SHEET NO. 4

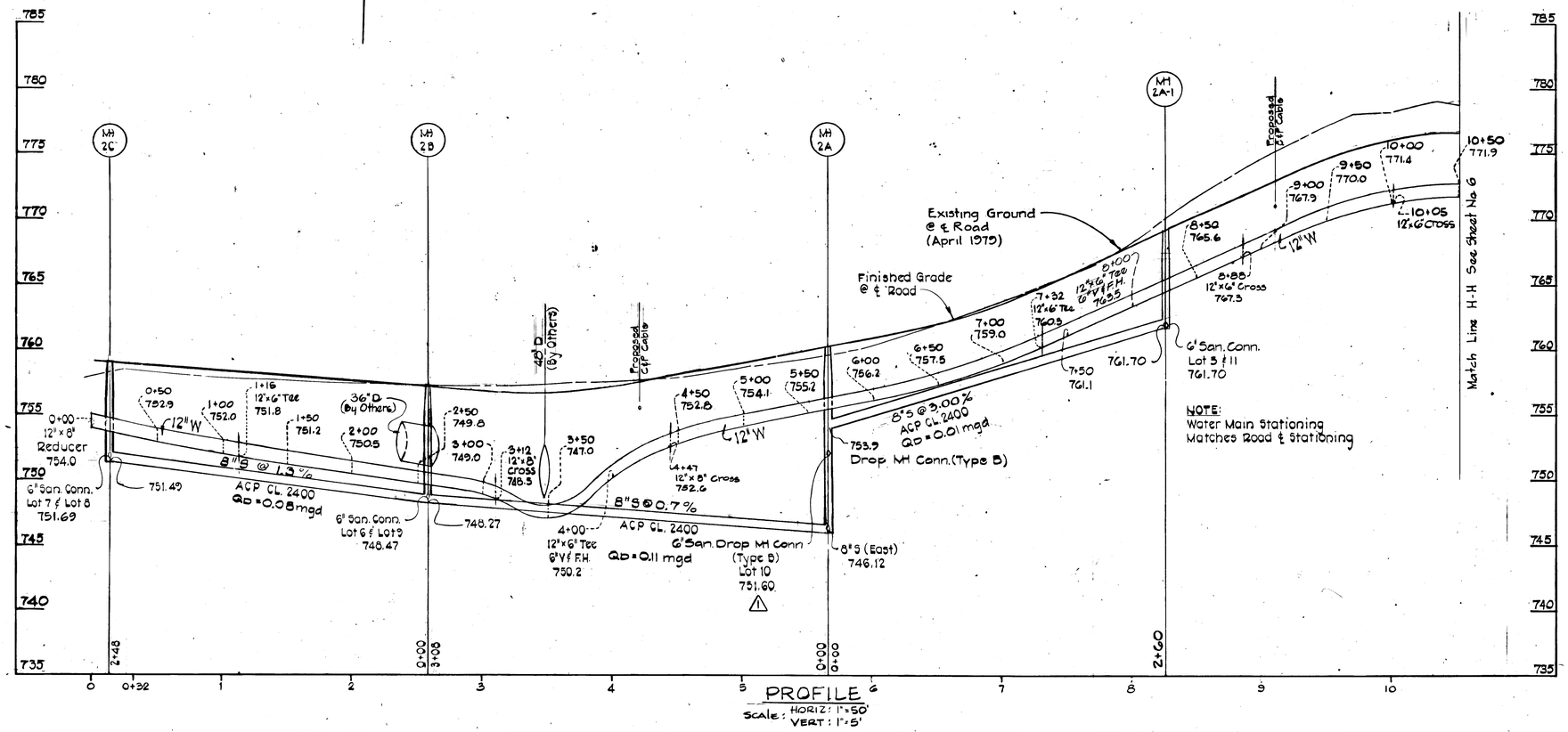
#2861
BRUNING ANE 1M3-2

4-B-4



PLAN

SCALE: 1" = 50'



PROFILE

Scale: HORIZ: 1" = 50'
VERT: 1" = 5'

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LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

STATE OF MARYLAND — WILLIAM G. RESCH II — No. 4575 — REGISTERED — Professional Engineer & Land Surveyor
William G. Resch II No. 4575

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AS BUILT: 7-21-80

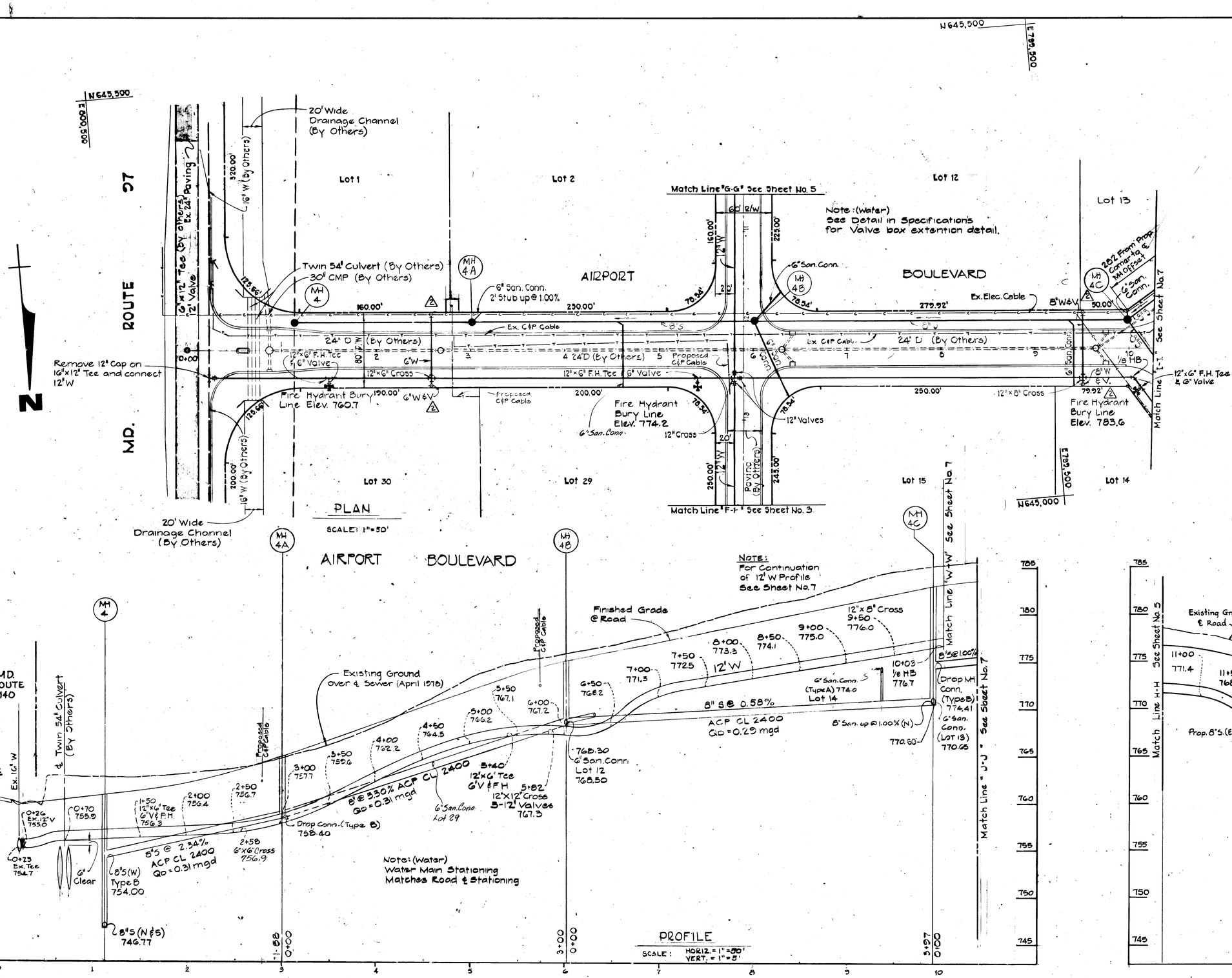
LATEST REVISIONS
Sept. 13, 1979

PLAN AND PROFILE
WATER AND SEWER
CARROLL COUNTY
AIR BUSINESS CENTER
WESTMINSTER MARYLAND
SCALE: AS SHOWN APRIL 20, 1979

SHEET NO. 5

#2862
BRUNING ANE 1M3-2

4-B-4



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STATE OF MARYLAND — WILLIAM G. ROESCH II — No. 4575 — REGISTERED — Professional Engineer & Land Surveyor
William G. Roesch II No. 4575

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AS BUILT: 7-21-80

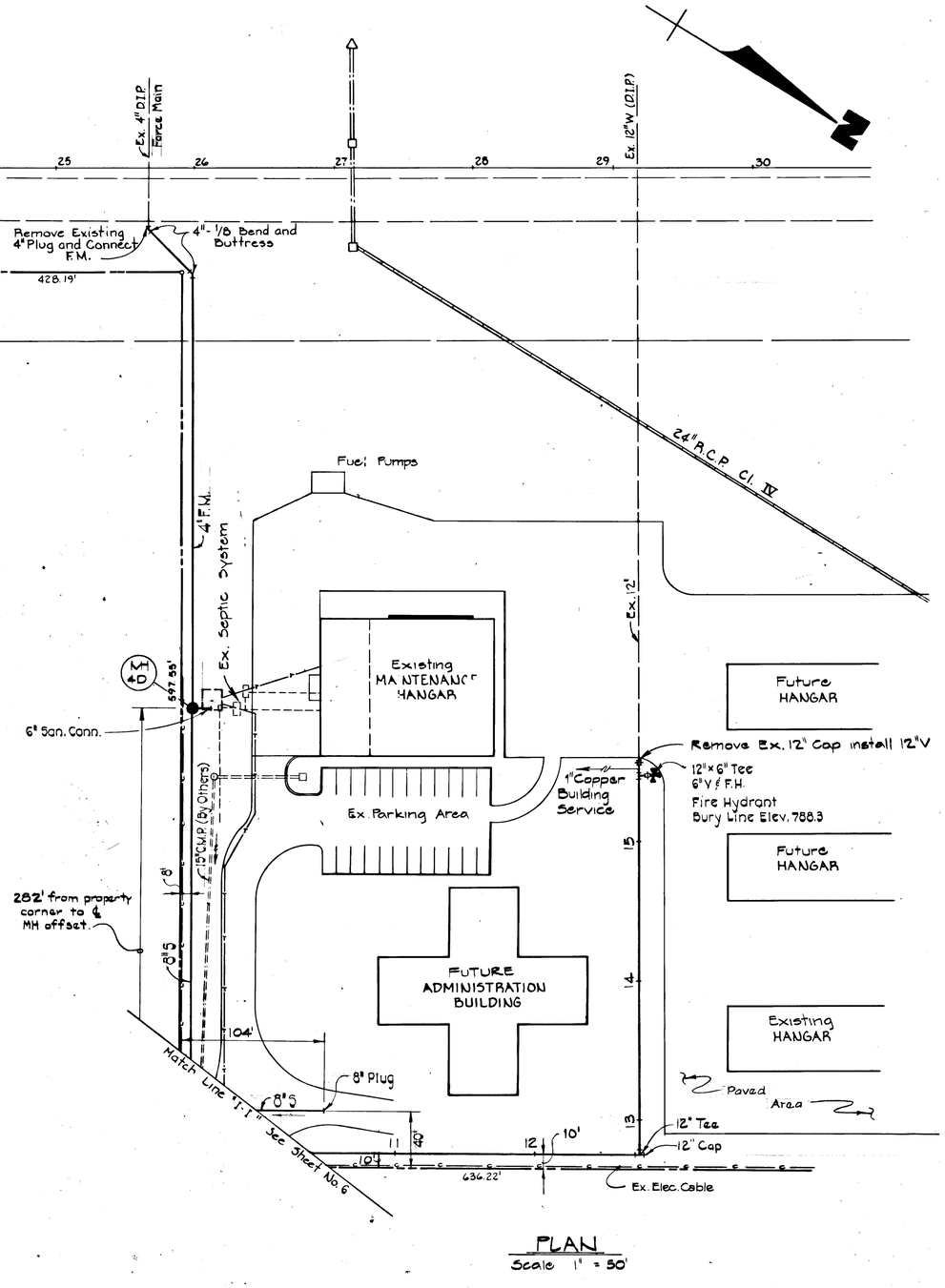
LATEST REV. SEPT. 19, 1979

PLAN AND PROFILE
WATER AND SEWER
CARROLL COUNTY
AIR BUSINESS CENTER
WESTMINSTER MARYLAND
SCALE: AS SHOWN APRIL 20, 1979

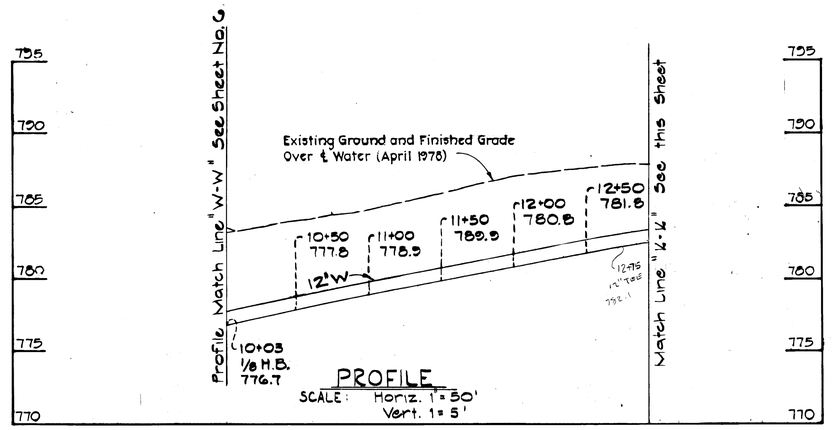
SHEET NO. 6

#2863
BRUNING ANE 1143-2

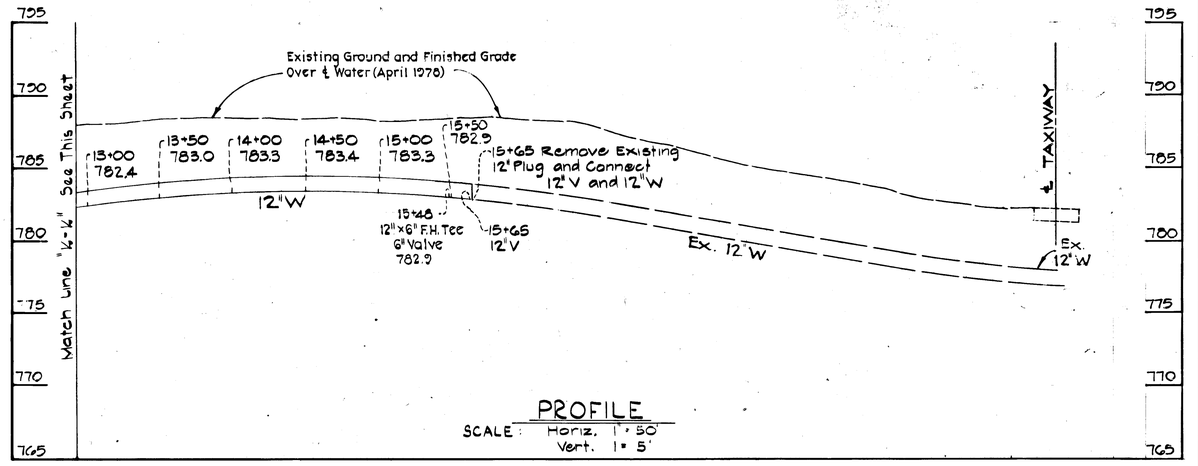
4-8-4



PLAN
Scale 1" = 50'



PROFILE
SCALE: Horiz. 1" = 50'
Vert. 1" = 5'



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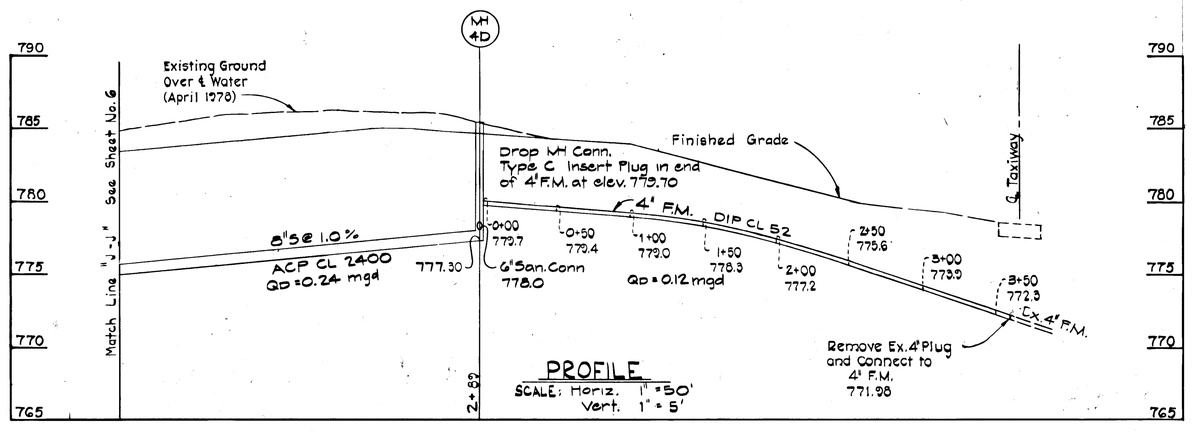

PROFILE
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STATE OF MARYLAND — WILLIAM G. RASCH II — No. 4575 — REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
William G. Rasch II No. 4575

REVISIONS
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AS BUILT: 7-21-80

PLAN AND PROFILE
WATER AND SEWER
CARROLL COUNTY
AIR BUSINESS CENTER
WESTMINSTER MARYLAND
SCALE: AS SHOWN APRIL 20, 1979

SHEET NO. 7

#2864
BRUNING ANE 1M3-2

4-84

GENERAL NOTES

1 ALL CONSTRUCTION ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE "GENERAL SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION" AND THE BOOK OF STANDARDS HIGHWAY AND INCIDENTAL STRUCTURE "AND "HIGHWAY DRAINAGE MANUAL" OF THE MARYLAND STATE HIGHWAY ADMINISTRATION "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE AND ALL ADDENDA AND ERRATA TO ANY AND ALL OF THE ABOVE

2 THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY CONTRACTOR SHALL VERIFY THE EXISTENCE LOCATION AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK

3. CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 A MIN OF (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF UTILITIES

4 CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE KIDDE CONSULTANTS INC AT (301) 848-1790 or (301) 876-2017 IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADES PRIOR TO BEGINNING WORK

5 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON ANY EXISTING ROADS

6 THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS THE FIGURED DIMENSION SHALL GOVERN

7 IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK

8 THE CONTRACTORS ATTENTION IS SPECIFICALLY DIRECTED TO PAGE 16 SECT 12 00 "GENERAL" UNDER THE SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION" ITEM 12 01 and 12 02 ARE HEREBY MADE A PART OF THE CONTRACT

9 THE CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES AT LEAST 72 HOURS BEFORE STARTING ANY CONSTRUCTION

BALTIMORE GAS & ELECTRIC CO	234-3691
C & P TELEPHONE CO	593-9977
MISS UTILITY-CALL	1-800-257-7777

11 THE CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENT CONTROL BARRIERS IN FORM OF STRAW BALE DIKES ALONG THE COURSE OF HIS CONSTRUCTION THE DIKES SHALL BE PLACED IN ACCORDANCE WITH THE "1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

12 ALL PACING DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED IN ACCORDANCE WITH COUNTY ROADS DETAILS

13 ALL STORM DRAINAGE CULVERTS LOCATED AT OR NEAR EXISTING SWALES ARE INTENDED TO BE IN THE SWALES UNLESS OTHERWISE NOTED

14 ALL RIP-RAP SPECIFIED SHALL BE LOOSE LAID STONE RIP-RAP PLACED AT STORM DRAIN OUTFALLS IN EXISTING SWALES SHALL BE PLACED SO AS TO COMPLETELY LINE THE EXISTING SWALE WITH ONLY THE MINIMUM POSSIBLE GRADING OR SHAPING OF THE SWALE

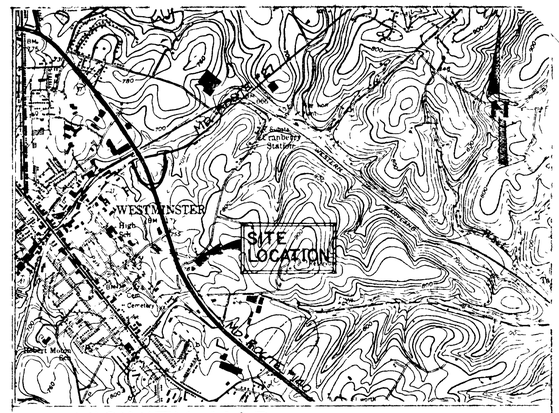
15 INLET GRATES IN SUMPS SHALL BE CONSTRUCTED LEVEL AT THE ELEVATION GIVEN IN THE STRUCTURE SCHEDULE INLETS ON GRADE SHALL BE ADJUSTED SO THAT THE GRADE OF THE GRATE MATCHES THE FINISHED FLOW LINE OF THE CURB TOP ELEV SHALL BE THE TOP OF INLET GRATE AT THE INTERSECTION OF THE CENTERLINE OF INLET AND FLOW LINE AT BASE OF CURB

16 STORM DRAIN PIPE FOR THIS PROJECT SHALL BE REINFORCED CONCRETE PIPE CLASS IV NOTED RCP UNLESS OTHERWISE NOTED ON PLANS

17 ALL CURB FILLET RADII SHALL BE 25 UNLESS OTHERWISE NOTED

18 ALL RIP-RAP FOR THIS PROJECT SHALL BE SIZED IN ACCORDANCE WITH MARYLAND SCS/W R A STANDARDS AND SPECIFICATIONS FOR ROCK OUTLET PROTECTION

SITE DEVELOPMENT PLAN
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL



VICINITY MAP SCALE 1"=2000'

REVISIONS

NO	DATE	REVISION	BY
		1PG REVISED SWM PER COUNTY COM	L.G.O
		CHANGE TO TANK IN LIEU OF INFILTRATION FACILITY	RAG
	Aug 13 1986	REVISE NOTE #4 OF "REQUIRED SEQUENCE OF CONSTR" (DWG #3) FOR INCLUSION OF SWM "TANK DESIGN.	RAG
		CHANGE - PIPE FROM I-5 TO FG1 TO BE 24"RCP CL III IN LIEU OF 24"CMP SHEETS NOS 2,3,5&9	RAG

OWNER
WESTMINSTER NURSERIES, Inc
PO BOX 227
WESTMINSTER, MD 21157

DEVELOPER
McSHEA & COMPANY, Inc
4733 BETHESDA AVENUE
SUITE 560
BETHESDA, MD 20814
PHONE (301) 986-1277

KIDDE CONSULTANTS, INC

INDEX

1	TITLE SHEET
2	SITE GRADING PLAN
3	SEDIMENT & EROSION CONTROL PLAN
4	PAVING, DIMENSION AND PARKING LAYOUT
5	STORM WATER MANAGEMENT & STORM DRAIN PLAN
6	DRAINAGE AREA MAP
7	UTILITY PLAN
8	LANDSCAPE PLAN
9	STORM DRAIN TABULATION & STORM DRAIN PROFILES
10	SANITARY SEWER AND WATER MAIN PROFILES
11	SANITARY SEWER DETAILS
12	WATER DETAILS
13	SEDIMENT & EROSION CONTROL DETAILS

CITY OF WESTMINSTER

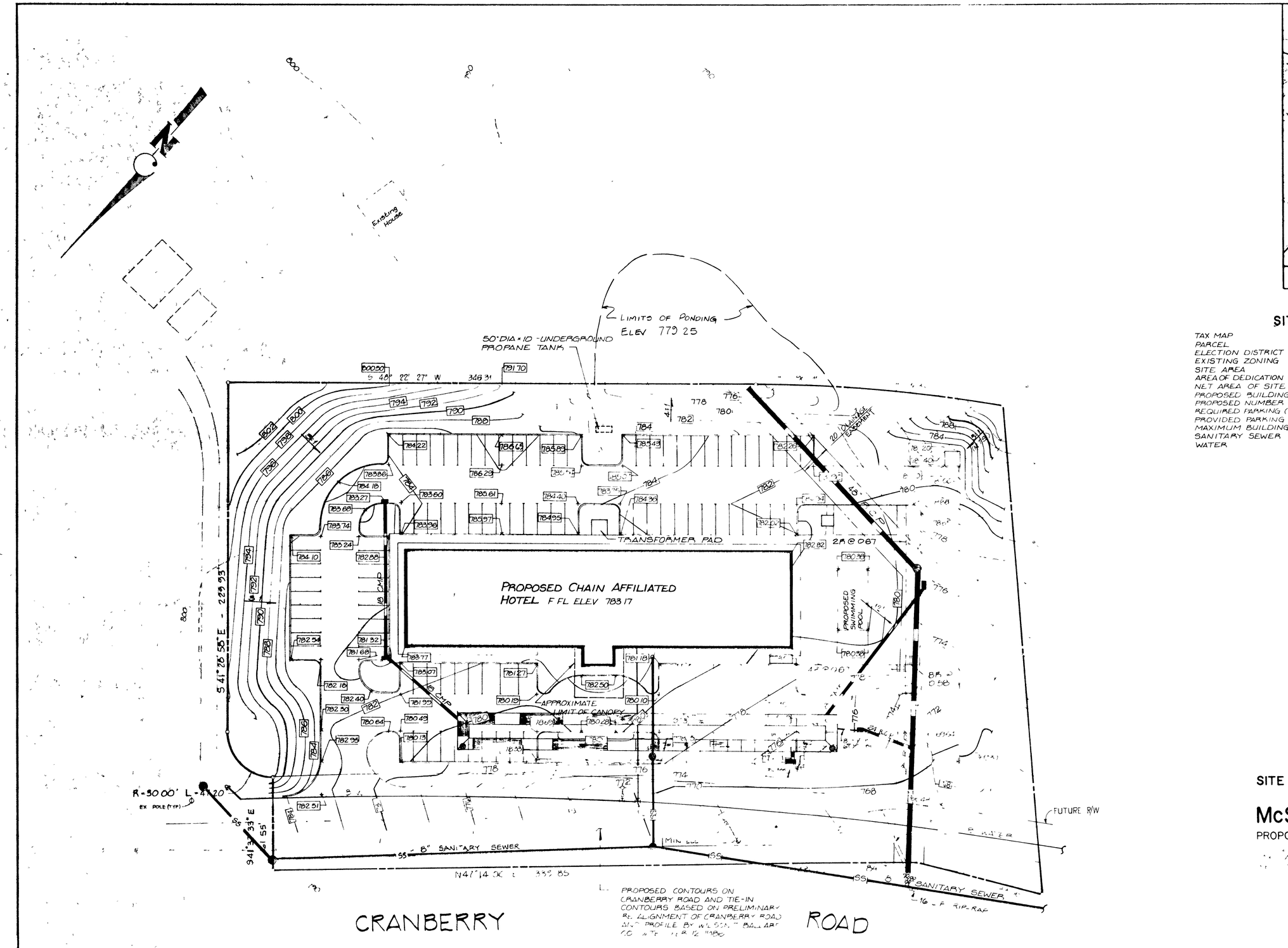
Approved by
Mayor
3-26-86
Date

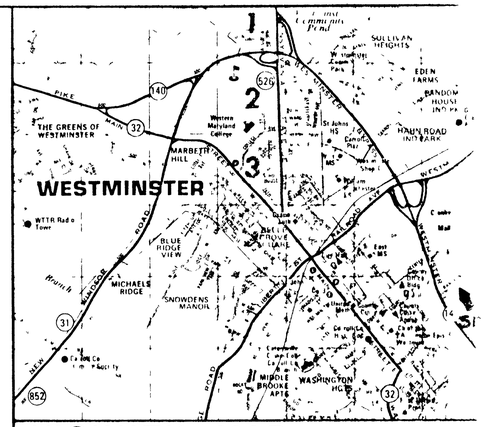
RECEIVED Approved by
NOV 03 1986 Carroll R Dell 8-25-86
DEPT of PLANNING & PUBLIC WORKS

#8274
7-22

Soil Conservation Service Certification
Approved [illegible] SCS
Name
and meets Technical Requirements
[illegible]
Title
U S Soil Conservation Service

Soil Conservation District Certification
The Development Plan is Approved For Soil Erosion And Sediment Control By The Carroll Soil Conservation District
Approved [illegible]
County SCD
Date





VICINITY MAP 1 = 1 MILE

SITE DATA

TAX MAP	46
PARCEL	9
ELECTION DISTRICT	7
EXISTING ZONING	BUSINESS
SITE AREA	3 7533 ACRES
AREA OF DEDICATION FOR CRANBERRY ROAD	0 6426 ACRES ±
NET AREA OF SITE	3 1107 ACRES ±
PROPOSED BUILDING USE	HOTEL (NO RESTAURANT OR LOUNGE
PROPOSED NUMBER OF ROOMS	102
REQUIRED PARKING (1 SPACE / ROOM)	102
PROVIDED PARKING	10
MAXIMUM BUILDING HEIGHT	3 STORIES - 40
SANITARY SEWER	PUBLIC
WATER	PUBLIC

SITE GRADING PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL

LGD		
	6/5	REVISED PER CITY COM
	8/6	REV BWM PER COUNTY COM.

KIDDE CONSULTANTS, INC.

#8275

REQUIRED SEQUENCE OF CONSTRUCTION (FOR MASS GRADING ONLY)

1 INSTALL PERIMETER CONTROLS (i e EARTH DIKE SILT FENCE STABLIZED CONSTRUCTION ENTRANCE TEMPORARY SWALE AND STONE OUTLET SEDIMENT TRAP) INSTALL 48" RCP STORM DRAIN FROM E-1 TO E-2 WITH RIP-RAP OUTFALL NOTIFY SEDIMENT CONTROL INSPECTOR FOR APPROVAL BEFORE PROCEEDING FURTHER

2 BEGIN CLEARING AND GRUBBING STRIP TOPSOIL AND STOCKPILE STABILIZE IMMEDIATELY

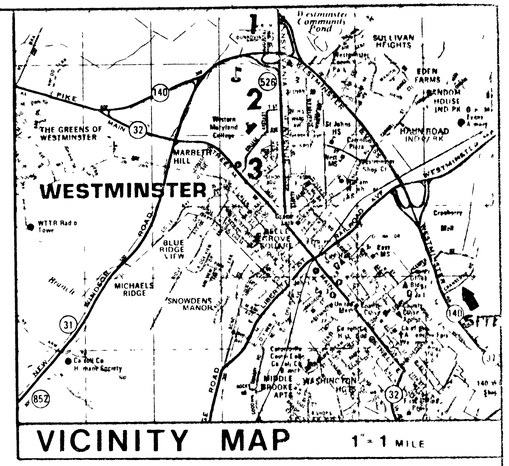
3 PROOF ROLL EXPOSED SUBGRADE UNDERCUT SOFT OR YIELDING AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER

4 BEGIN MASS GRADING AND CONTROLLED COMPACTION AS NECESSARY TO REACH FINISHED SUBGRADE

5 REMOVE, REPLACE OR INSTALL ADDITIONAL SEDIMENT AND EROSION CONTROL DEVICES AS REQUIRED BY THE SEDIMENT AND EROSION CONTROL INSPECTOR

6 NOTIFY SEDIMENT AND EROSION CONTROL INSPECTOR FOR APPROVAL PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROL DEVICES

7 REMOVE SEDIMENT AND EROSION CONTROL DEVISES AND STABILIZE IMMEDIATELY



VICINITY MAP 1" = 1 MILE

REQUIRED SEQUENCE OF CONSTRUCTION (FOR BUILDING CONSTRUCTION)

1 INSTALL PERIMETER CONTROLS (i e EARTH DIKE, SILT FENCE, STABLIZED CONSTRUCTION ENTRANCE, TEMPORARY SWALE AND STONE OUTLET SEDIMENT TRAP) INSTALL 48" RCP STORM DRAIN FROM E-1 TO E-2 WITH RIP-RAP OUTFALL NOTIFY SEDIMENT CONTROL INSPECTOR FOR APPROVAL BEFORE PROCEEDING FURTHER

2 BEGIN CLEARING AND GRUBBING STRIP TOPSOIL AND STOCKPILE, STABILIZE IMMEDIATELY

3 PROOF ROLL EXPOSED SUBGRADE, UNDERCUT SOFT OR YIELDING AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER

4 BEGIN GRADING OF TRENCH FOR STORM WATER MANAGEMENT TANK CONTACT OFFICE OF KIDDE CONSULTANTS INC (876-2017) FOR INSPECTION OF PIPE BEDDING AND CERTIFICATION OF PIPE SIZE, LENGTH, GAUGE, TYPE, BANDS AND PREFABRICATED JOINTS SEE CONSTRUCTION SPECIFICATIONS ON SHEET #9 PIPE INSTALLATION, BACKFILLING MATERIAL AND PROCEDURES AND CUT-IN JOINTS SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE OF OWNER OR REPRESENTATIVE PRIOR TO COVERING OF PIPE

5 BEGIN MASS GRADING AND CONTROLLED COMPACTION AS NECESSARY TO REACH FINISHED SUBGRADE

6 REMOVE, REPLACE OR INSTALL ADDITIONAL SEDIMENT AND EROSION CONTROL DEVICES AS REQUIRED BY THE SEDIMENT AND EROSION CONTROL INSPECTOR

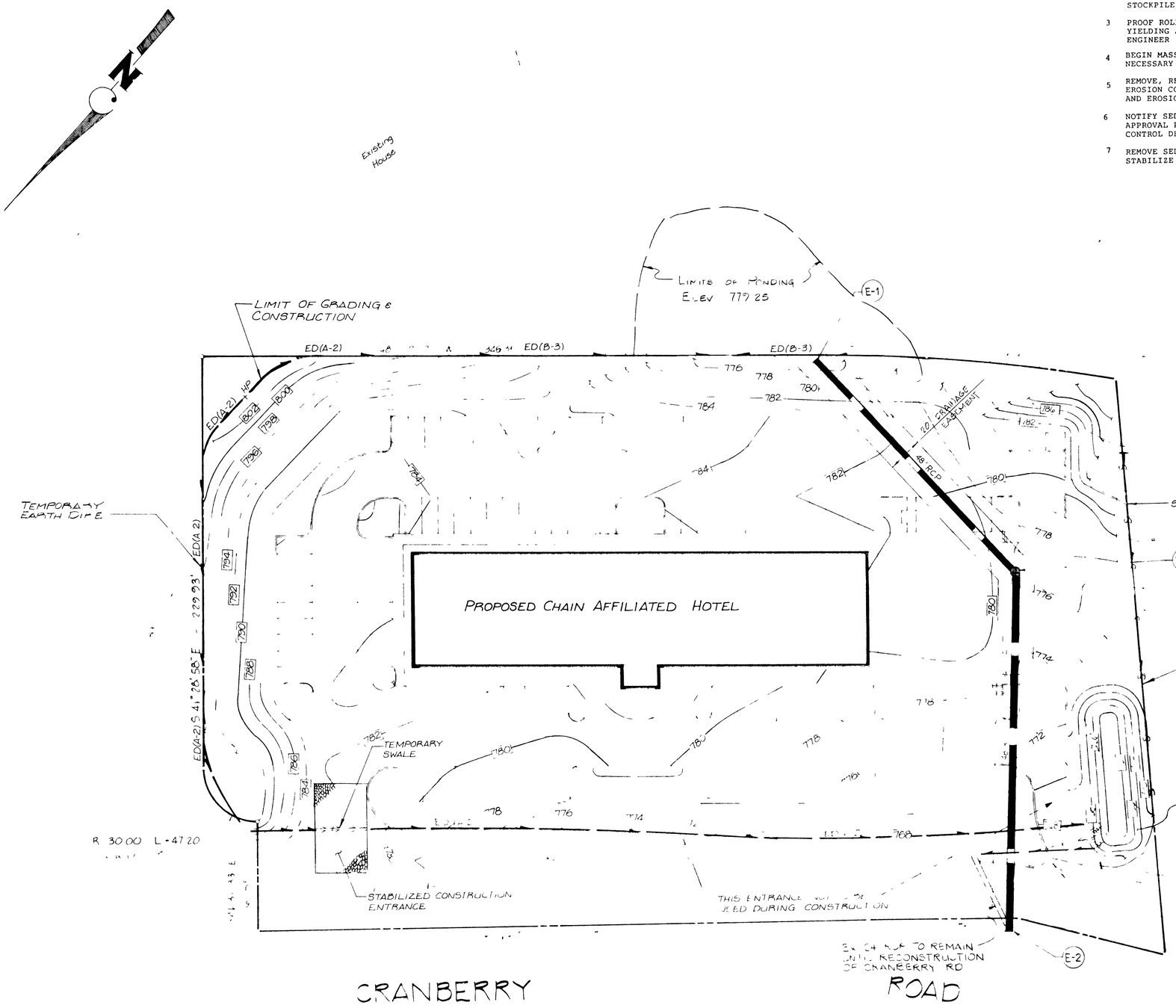
7 BEGIN BUILDING CONSTRUCTION, SANITARY SEWER AND WATER EXTENSIONS, AND STORM DRAIN SYSTEMS (BLOCK INLETS)

8 COMPLETE BUILDING CONSTRUCTION, SANITARY SEWER AND WATER EXTENSIONS (WITH CONNECTIONS)

9 COMPLETE FINAL GRADING AND PAVING (STABILIZE IMMEDIATELY)

10 NOTIFY SEDIMENT AND EROSION CONTROL INSPECTOR FOR APPROVAL PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROL DEVICES

11 REMOVE SEDIMENT AND EROSION CONTROL DEVISES AND STABILIZE IMMEDIATELY



ST #1 (TEMPORARY)
TYPE ST V
DA 3.00 ACRES
STORAGE REQ'D = 5400 CU FT
STORAGE PROV'D = 5505 CU FT (10 x 70 x 3.75)
OUTLET LENGTH = 12 LF
STORAGE DEPTH 3.75
OUTLET ELEV = 767.75
SEE DETAIL-SHEET 13 OF 13

DUST CONTROL SCHEDULE

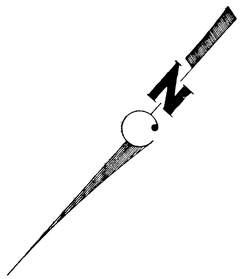
MAY-OCTOBER - ALL GRADED AREAS NOT BEING IMMEDIATELY STABILIZED AS NOTED IN THE REQUIRED SEQUENCE OF CONSTRUCTION SHALL BE WATERED ON A CONTINUING BASIS AS NECESSARY TO PROVIDE FOR DUST PROOFING CONTRACTOR SHALL PROVIDE TANK TRUCK WITH SPRAY BAR ON SITE AT ANY TIME THE DISTURBED AREA EXCEEDS THREE (3) ACRES

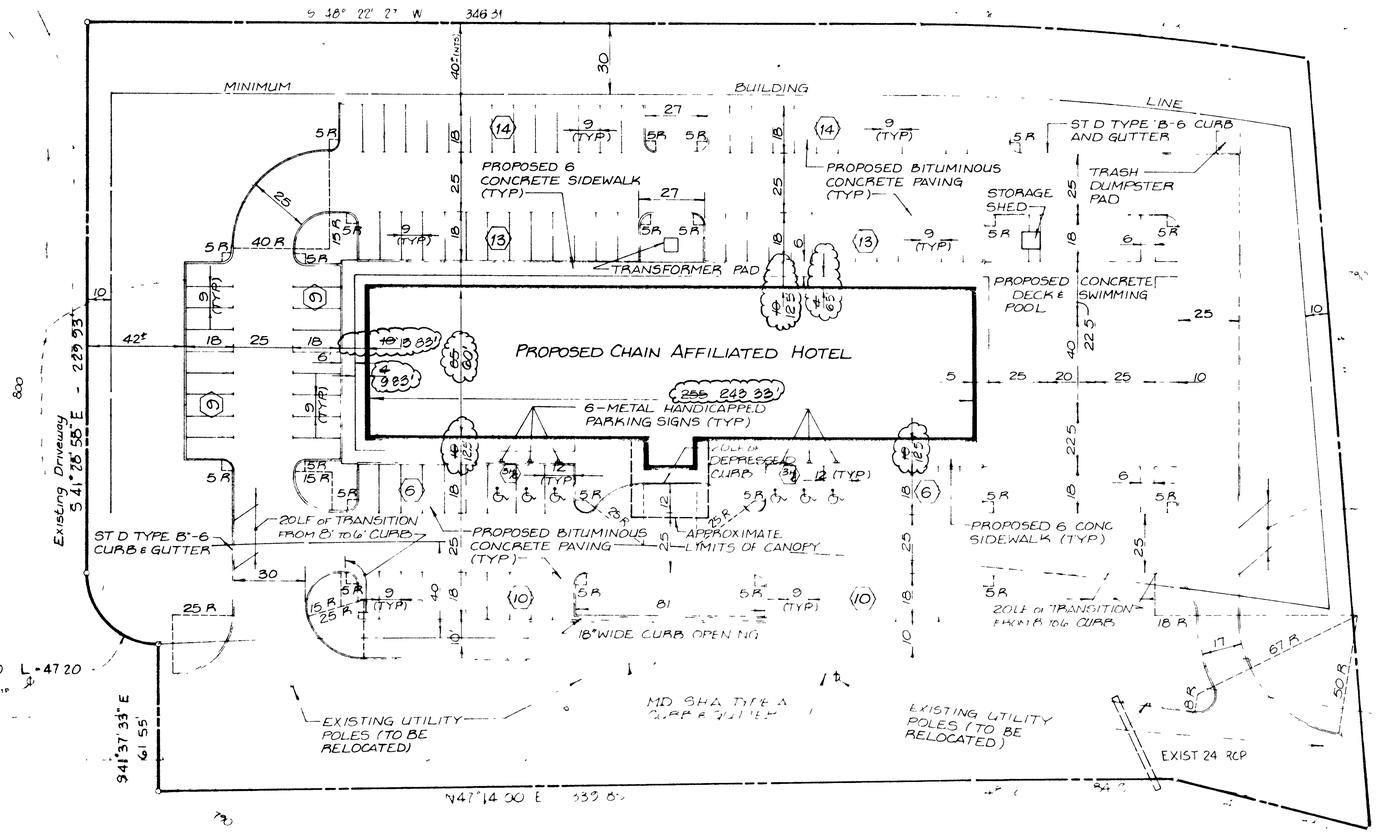
SEDIMENT & EROSION CONTROL PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL

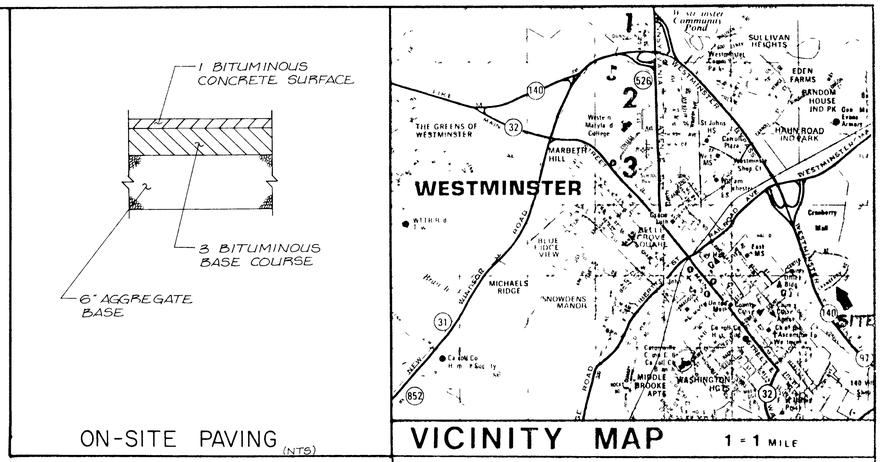
LOTS 1 AND 2 OF THE RESUBDIVISION OF LOTS 5 & 6 OF CRANBERRY BOA
AS RECORDED IN PLAT BOOK 12 PARCEL 13
SE 4TH ELECTION DISTRICT CARROLL COUNTY, MARYLAND

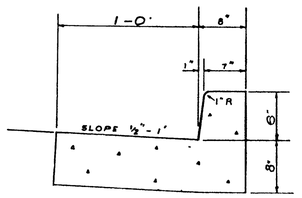
#8276

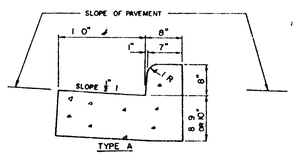
	8/6	REV PER COMMENTS	KIDDE CONSULTANTS, INC.











PAVING, DIMENSION AND PARKING LAYOUT PLAN
FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

SITUATED ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 46 BLOCK 2 PARCEL 9
WESTMINSTER CARROLL COUNTY MARYLAND

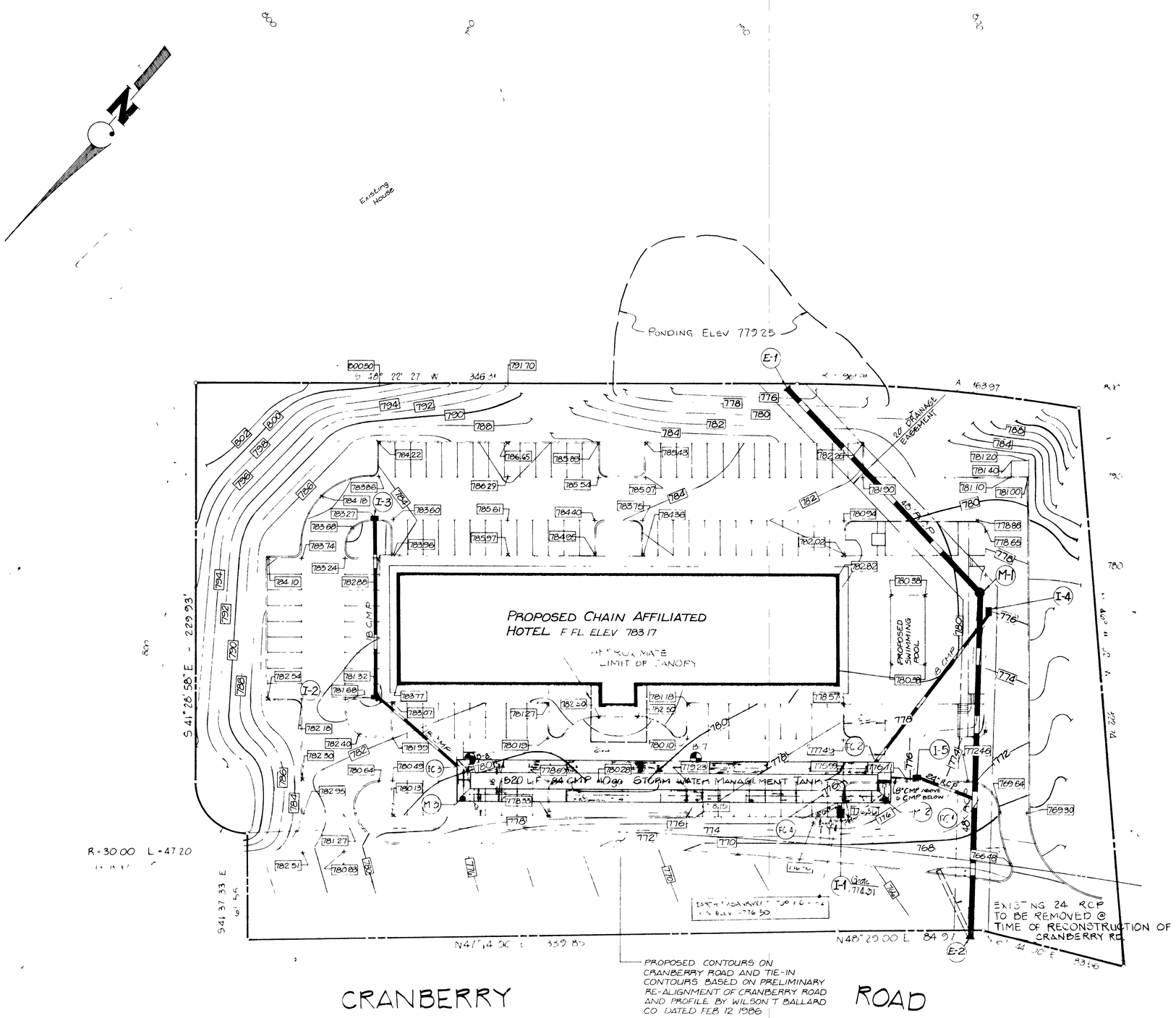
3 B 3

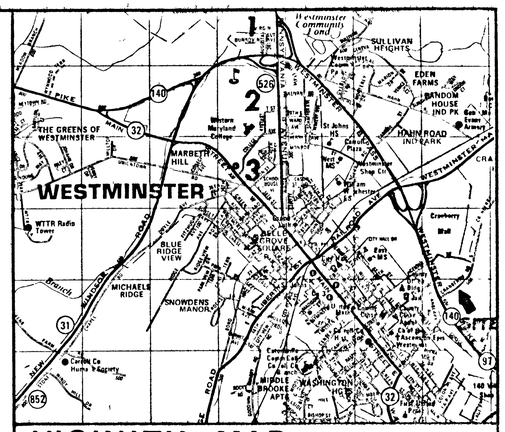
#8277

LGO	8/6	REV. S.W.M. PER COUNTY COM.	
	10-16-86	REV. BUILDING DIMENSIONS	

KIDDE CONSULTANTS, INC.
ENGINEERS • ARCHITECTS • PLANNERS

4 APRIL 1986





VICINITY MAP 1"=1 MILE

STORM WATER MANAGEMENT
FACILITY MAINTENANCE SCHEDULE

1 THE STORM WATER MANAGEMENT FACILITY SHOWN ON THESE PLANS SHALL BE CONSTRUCTED AND MAINTAINED BY THE OWNER

2 OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR CONTINUING MAINTENANCE OF THE FACILITY WHICH SHALL INCLUDE SUCH ITEMS AS MOWING, CLEANING AND REMOVING OF SEDIMENT AND/OR DEBRIS THE TIME PERIOD FOR THIS CONTINUING MAINTENANCE SHALL BE ON AN "AS-NEEDED" BASIS BUT SHALL NOT BE DELAYED LONGER THAN 30 DAYS.

3 OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR REPARATION OF ANY STRUCTURAL DAMAGES OR FAILURE WHICH MAY OCCUR AS A RESULT OF NEGLIGENCE, ACCIDENT OR MISUSE IN THE EVENT OF STRUCTURAL DAMAGE, OWNER SHALL BE RESPONSIBLE TO MAKE THE NECESSARY REPAIRS AS QUICKLY AS POSSIBLE BUT IN ANY CASE WITHIN 60 DAYS

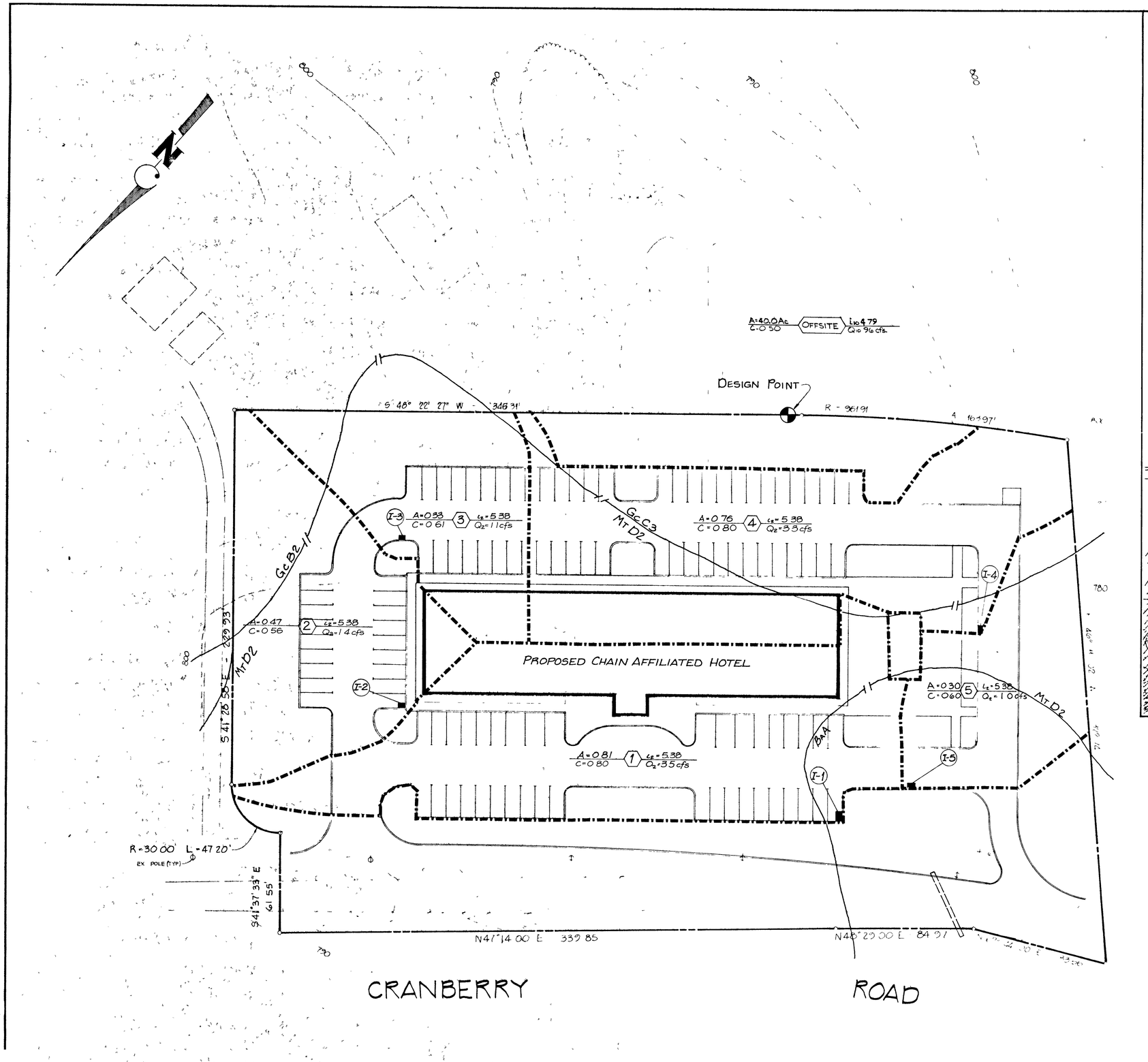
4 OWNER SHALL GRANT RIGHT OF ENTRY TO AUTHORIZED COUNTY PERSONNEL FOR PURPOSES OF INSPECTION AND/OR MONITORING SITE VISITS FOR INSPECTION AND/OR MONITORING SHALL BE CONDUCTED ONLY DURING NORMAL COUNTY WORKING HOURS (8 00 A.M TO 4:00 P M MONDAY-FRIDAY)

STORM WATER MANAGEMENT & STORM DRAIN PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL

SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 48 BLOCK 2 PARCEL 9
WESTMINSTER CARROLL COUNTY MARYLAND

LGD	07 23 86	Revised Size of store trench per Cty con't	KIDDE CONSULTANTS, INC.			SHEET 5 OF 13	APRIL 1986 SCALE 1"=30	NUMBER 5852-1
	8 16 86	Rev. SWM per County Com						

#8278



DRAINAGE AREA TO DESIGN POINT = 40 ACRES

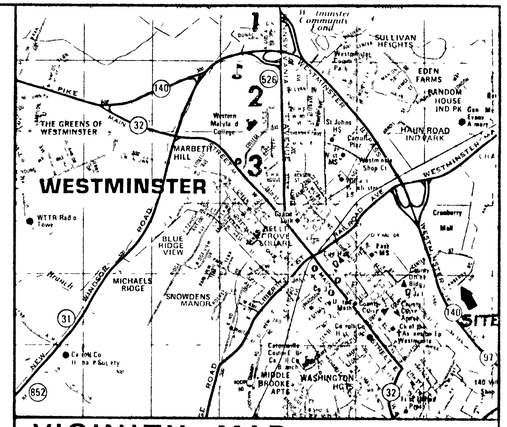
C = 0.50

T_c = 17 MIN

i_{10} = 4.79

Q_{10} = 96 CFS

SCALE - 1" = 200'



VICINITY MAP 1 = 1 MILE

DRAINAGE AREA MAP

FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 48 BLOCK 2 PARCEL 9
WESTMINSTER CARROLL COUNTY MARYLAND

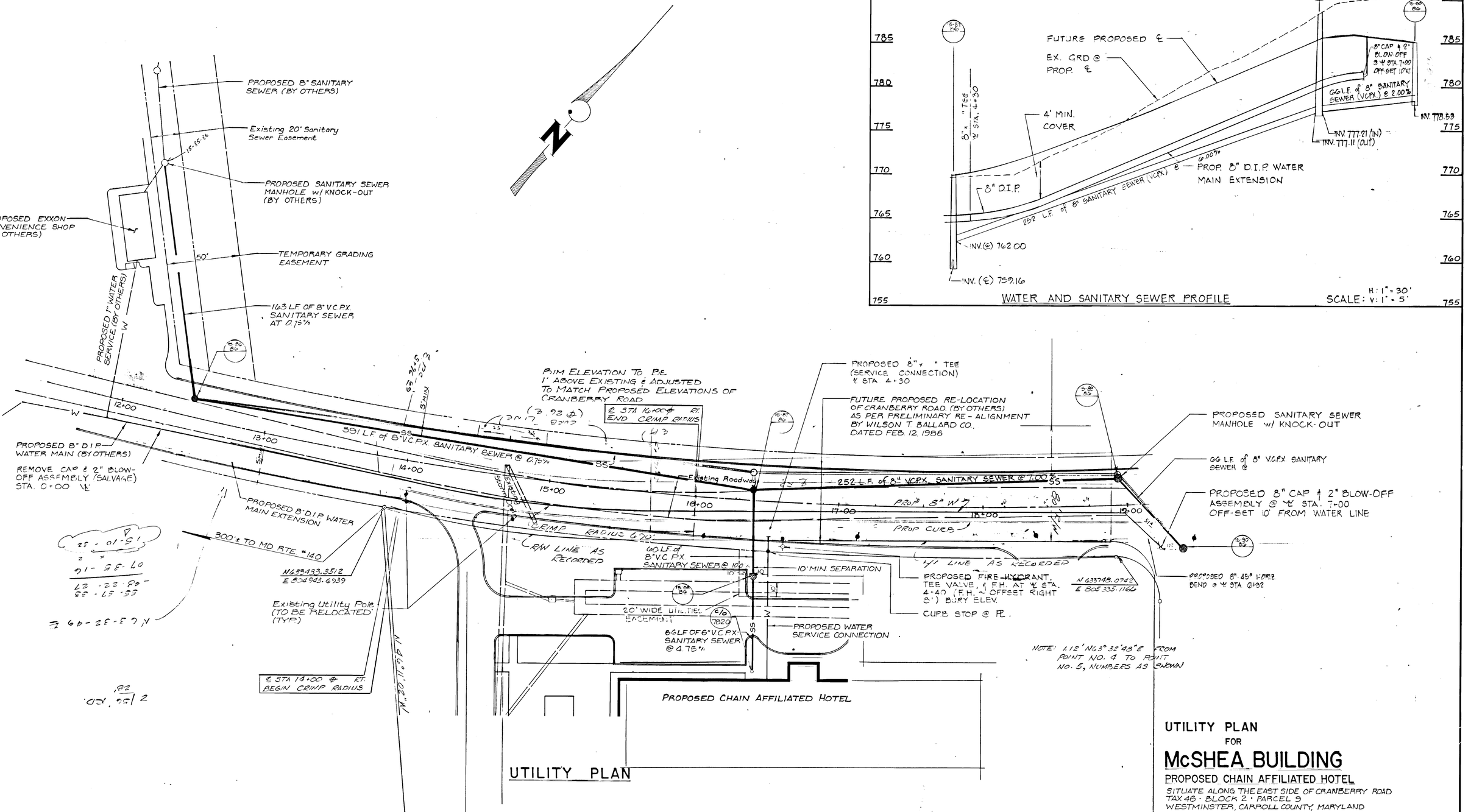
#8279

Drawn	DATE	REVISIONS
Check	8 06 86	REV SWM PER COUNTY COM
Design		
Tes		

KIDDE CONSULTANTS, INC.

ENGINEERS • ARCHITECTS • PLANNERS

SHEET	DATE	FILE
6	APRIL 1986	
13	1"=30	15852



UTILITY PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL
SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX 46 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

Drafting LGK	DATE	REVISIONS
Check	4-08-86	REVISED PER COUNTY COMM.
Design	11-07-85	PER RECORD PLAT & CURED PLAT
Check		

PER J.R. **KIDDE CONSULTANTS, INC.**
ENGINEERS • ARCHITECTS • PLANNERS

SHEET	DATE	JOB NUMBER
7 OF 13	APRIL 1986	1585237
	SCALE 1"=30'	

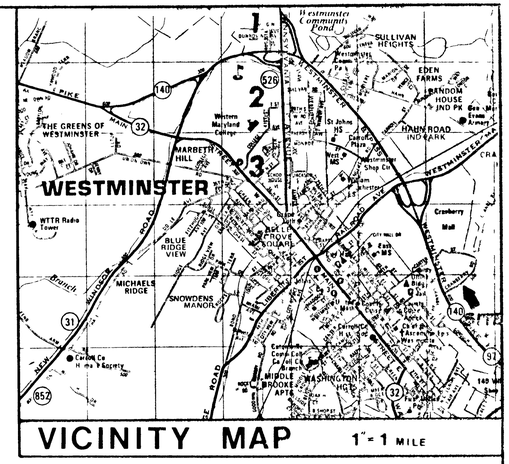
KEUFFEL & ESSER 8-5786

8280

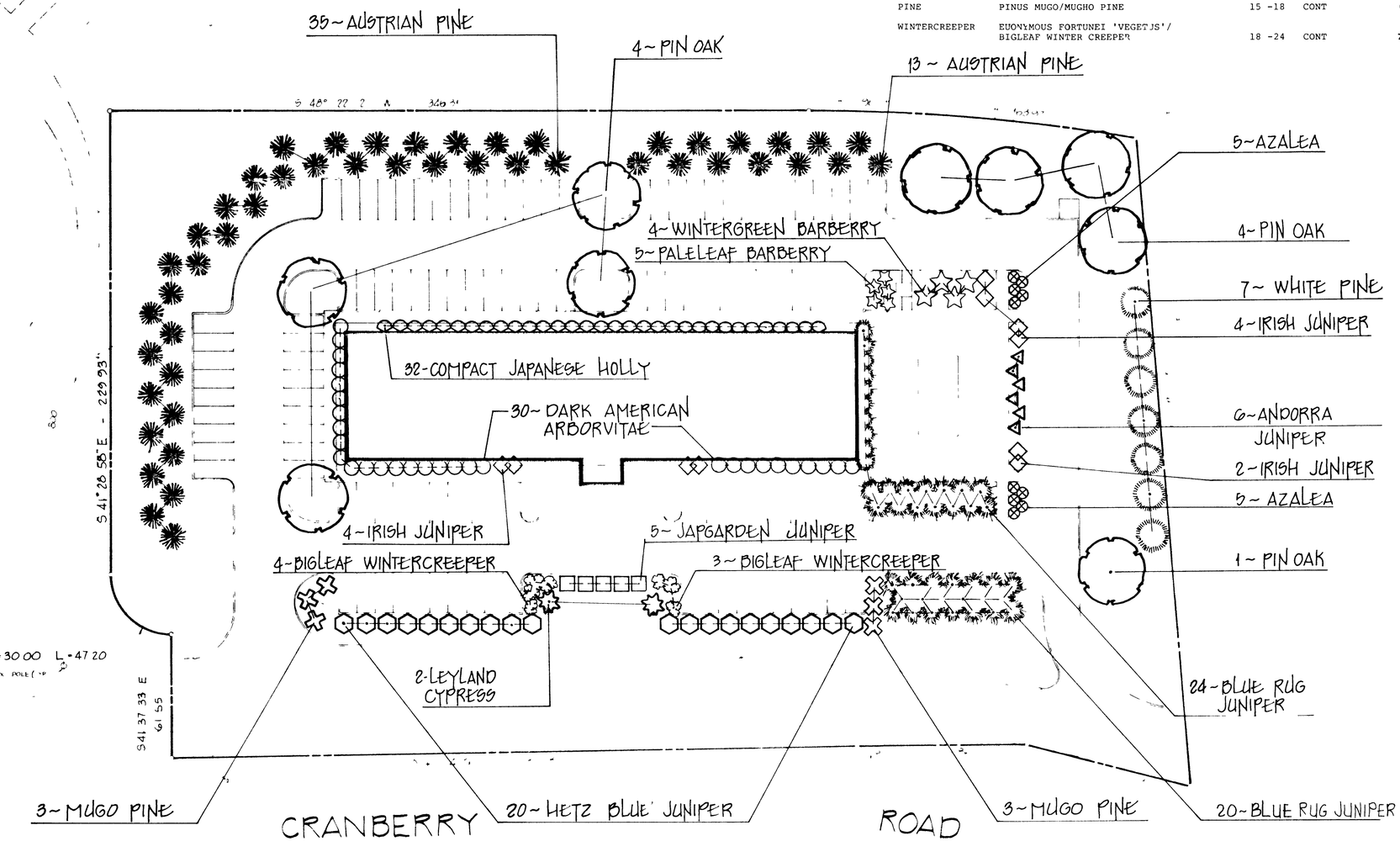
3.B.3

PLANT SCHEDULE

KEY	BOTANICAL/COMMON NAME	SIZE	ROOT	QUANTITY
ARBORVITAE	THUJA OCCIDENTALIS 'NIGRA'/ DARK AMERICAN ARBORVITAE	18 -24	CONT	30
AZALEA	AZALEA KURUME/HERSHEY RED	12 -15	CONT	10
BARBERRY	BERBERIS CANDIDULA/PALELEAF BARBERRY	18 -24	CONT	5
BARBERRY	BERBERIS JULIANAE/WINTERGREEN BARBERRY	18 -24	B & B	4
CYPRESS	CUPRESSOCYPARIS LEYLANDII/LEYLAND CYPRESS	4 -5	B & B	2
HOLLY	ILEX CRENATA 'COMPACTA /COMPACT JAPANESE HOLLY	18 -24	CONT	32
JUNIPER	JUNIPERIS HORIZONTALIS 'WILTON'/ BLUE RUG CREEPING JUNIPER	18 -24	CONT	44
JUNIPER	JUNIPERIS CHINENSIS 'GLAUCA HETZII/ HETZ BLUE JUNIPER	24 -30'	B & B	20
JUNIPER	JUNIPERIS HORIZONTALIS (DEPRESSA)/ ANDORRA JUNIPER	18 -24	CONT	6
JUNIPER	JUNIPERIS COMMUNIS 'HIBERNICA'/ IRISH JUNIPER	3'-4'	B & B	10
JUNIPER	JUNIPERIUS PROCUMBENS 'NANA'/ DWARF JAPGARDEN JUNIPER	18 -24'	CONT	5
PIN OAK	QUERCUS PALUSTRIS/PIN OAK	6'-8'	B & B	9
PINE	PINUS NIGRA/AUSTRIAN PINE	5'-6'	B & B	48
PINE	PINUS STROBUS/EASTERN WHITE PINE	5'-6'	B & B	7
PINE	PINUS MUGO/MUGHO PINE	15 -18	CONT	6
WINTERCREEPER	EUONYMOUS FORTUNEI 'VEGETUS'/ BIGLEAF WINTER CREEPER	18 -24	CONT	7



VICINITY MAP 1" = 1 MILE



NOTE THE LANDSCAPING SHOWN HEREON WILL NOT INTERFERE WITH THE PLACEMENT OF UTILITIES AS SHOWN ON SHEET 7 OF 13

LANDSCAPE PLAN
FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

LATE ALONG HE EAST SIDE OF CRANBERRY ROAD
AX MAP 46 BLOCK 2 PARCEL 9
ESTMINSTER CARROLL COUNTY MARYLAND

#8281

KIDDE CONSULTANTS, INC.

8 APRIL 1988
13

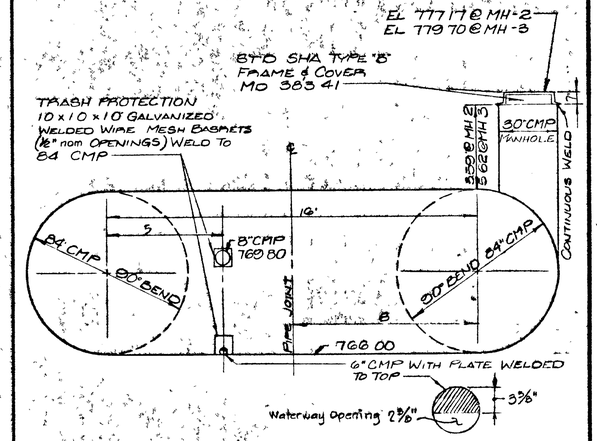
STORM DRAIN COMPUTATIONS

STRUCTURE # FROM	TO	CONTRIBUTING AREA: AREA NO	AREA (ACRES)	C RUNOFF COEF	A CA	RUNOFF: Σ CA	DESIGN STORM YEARS	TIME OF CONC (MIN)	RAINFALL INTENS (IN/HR)	Q QUANT (CFS)	INLET: INLET NO	REMARKS	Q SURCH	STREET SLOPE (%)	INLET TYPE	INLET CAPACITY (CFS)	SURCH (CFS)	TO INLET #	PIPE: D DIAM (IN)	TYPE	n MANNGS COEF	FRICTION SLOPE (%)	ACTUAL SLOPE (%)	FRICTION VELOC (FPS)	ACTUAL VELOC (FPS)	HW/D	NORMAL DEPTH (FT)	L LENGTH (FT)	TIME IN PIPE (MIN)	CAPAC FULL (CFS)
-	I-3	3	.33	61	20		2	5 00	5 38	1.1	I-3	SINGLE WR	11	SUMP	WR	-	-	-											
I-3	I-2					20	10	5 00	7 00	14																			
-	I-2	2	.47	56	.26		2	5 00	5 38	1 4	I-2	SINGLE WR	1 4	SUMP	WR	-	-	-											
I-2	FC-3	DETENTION TANK				46	10	5 00	7 00	32																			
-	I-4	4	.76	80	61		2	5 00	5 38	33	I-4	STD WR	33	3 0	WR	2 6	7	-											
I-4	FC-2	DETENTION TANK				61	10	5 00	7 00	43																			
-	I-1	1	81	80	65		2	5 00	5 38	35	I-1	STD WR		SUMP	WR	-	-	-											
I-1	FC-4	DETENTION TANK					10	5 00	7 00	46																			
-	E-1	OFF SITE	40	50	200																								
E-1	M-1						10	17 0	4 79	96									48	RCP	013	.43	4 00	7 6	22	1.18	160	151	.1	295
M 1	E-2					200	10	17 0	4 79	96									48	RCP	013	43	140	7 6	14	-	22	197	2	175
I-5	FC-1		197		172		25	5 00	8 00	138									24"	RCP	.013	.38	.96	4.3	6.8	-	1.2	26	.06	22

CONSTRUCTION SPECIFICATIONS FOR 84" CMP S W M FACILITY

1. All joints shall have sleeve gasket Bands shall be bar and strap or band angle type All joints shall be watertight.
2. All cut-in connections shall be as close as practicable to top of 84 CMP and shall be waterproofed inside and out using a tar or similar mastic
3. M-2, M-3 90° bends and 6' connection shall be shop manufactured
4. Std manhole steps to be welded to pipe at each manhole
5. All welds shall be waterproofed with two coats of rustproof paint
6. Contractor shall be responsible to notify the office of Kidde Consultants, Inc. at the following times for inspection of construction
   a) Upon receipt but prior to installation of any 84" pipe
   b) Upon excavation of trench for inspection of pipe base
   c) Upon completion of each cut-in operation for verification of waterproofing
   d) Upon beginning backfilling
7. Backfill shall be select borrow hand compacted in lifts not to exceed 8" (before compaction) to 95% (min) density

84" CMP shall be 12 ga Aluminized with 5 x 1 corrugations.



SECTION THROUGH END OF TANK
LOOKING DOWNGRADE (NTS)

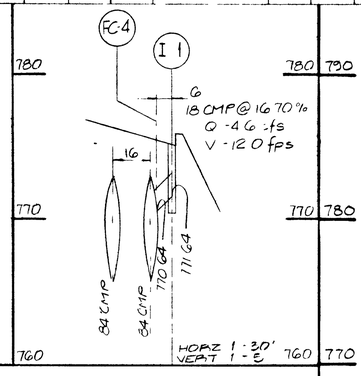
I hereby certify that the plans and specifications for the proposed storm water management pond was prepared by or under my supervision and meets the minimum standards of the Carroll Soil Conservation District

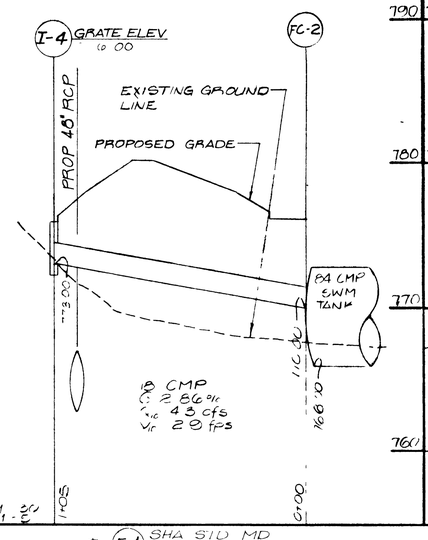
Professional Engineer R L Umbarger Date 6/13/86

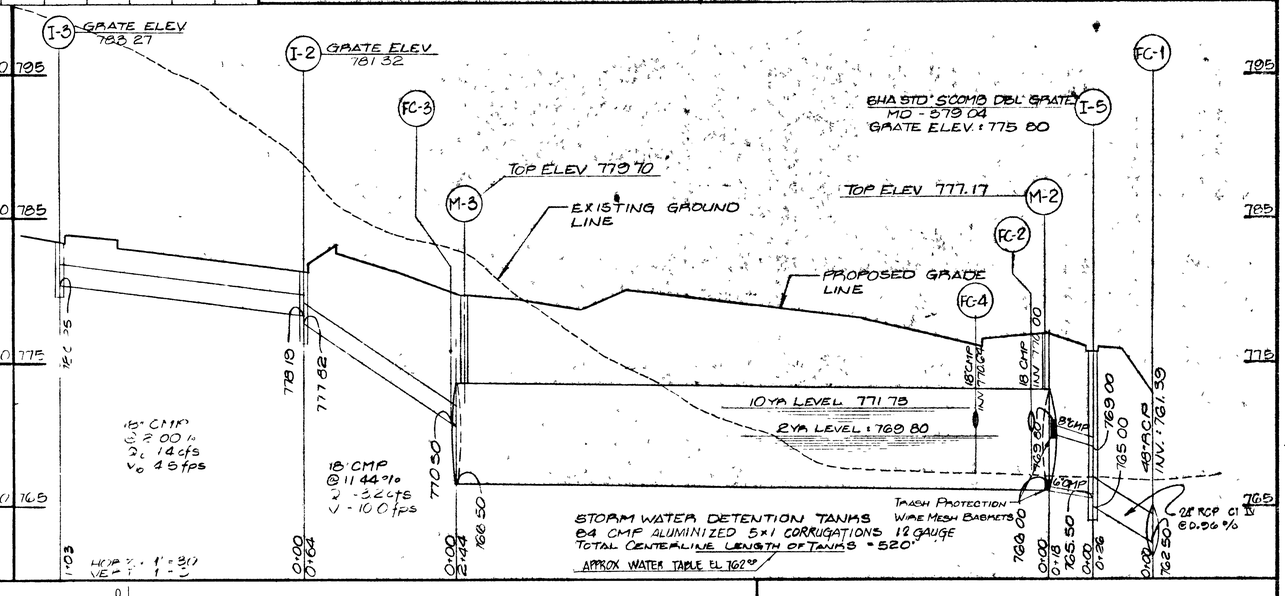
I certify that this storm water management facility will be constructed to the design and specifications as shown on this plan

OWNER John F McShea II DATE 6/13/86

Professional Engineer R L Umbarger Date 6/13/86

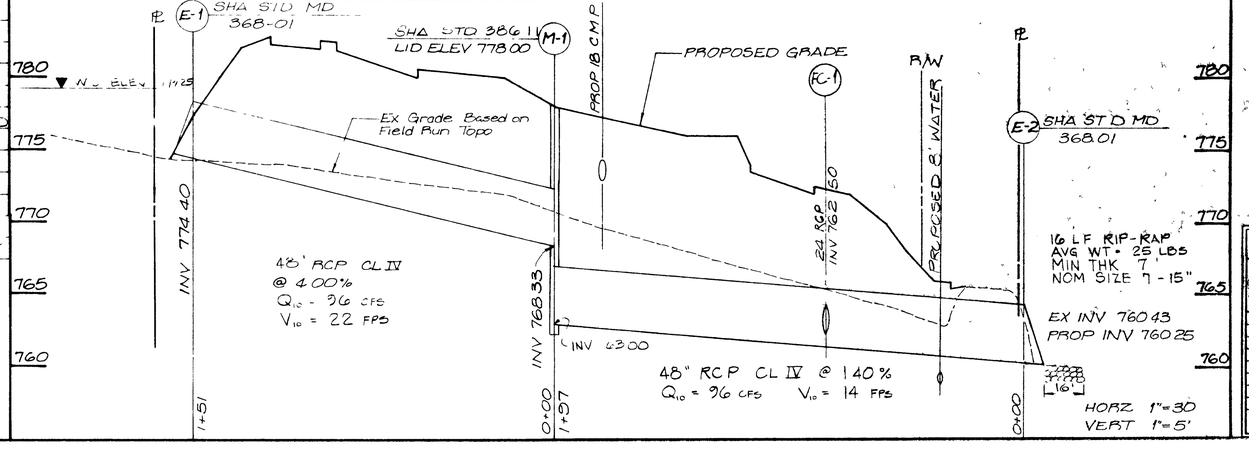






STORM STRUCTURE SCHEDULE

STRUCT NUMBER	TYPE	INVERT IN ELEV	INVERT OUT ELEV	TOP ELEV	℄ STA	OFFSET	REMARKS
I-2	MD SHA 374 06	778 19	773 11	781 32			SINGLE WR
I-3	MD SHA 374 06	——	780 25	783 27			SINGLE WR
I-4	MD 374 04	——	773 00	776 00			DOUBLE COMB WR
I-1	MD 374 04	771 84	771 64	774 91			DOUBLE COMB WR
E-1	MD 368.01	774 40	——				STD CONC END SEC
E-2	MD 368 01	——	760 25				STD CONC END SECTION
M-1	MD 386 11	768 33	768 13	778 00			STD. JUNCTION BOX
I-5	MD 379 04	765 50	765 00	775 80			D01 S COMB
	@CONTRACTOR MAY SUBSTITUTE PRECAST WR INLET MD SHA STD NO 374.23 AT HIS OPTION						
	CONTRACTOR MAY SUBSTITUTE PRECAST WR INLET MD SHA STD NO 374 21 AT OPTION						
FC-1	FIELD CUT	762 50					CUT INTO 48" RCP
FC-2	FIELD CUT	770 00					CUT INTO 84 RCP
FC-3	FIELD CUT	770 50					CUT INTO 84 RCP
FC 4	FIELD CUT	770 64					CUT INTO 84 RCP



STORM DRAIN TABULATION & STORM DRAIN PROFILES FOR McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

9 of 13

KIDDE CONSULTANTS, INC.

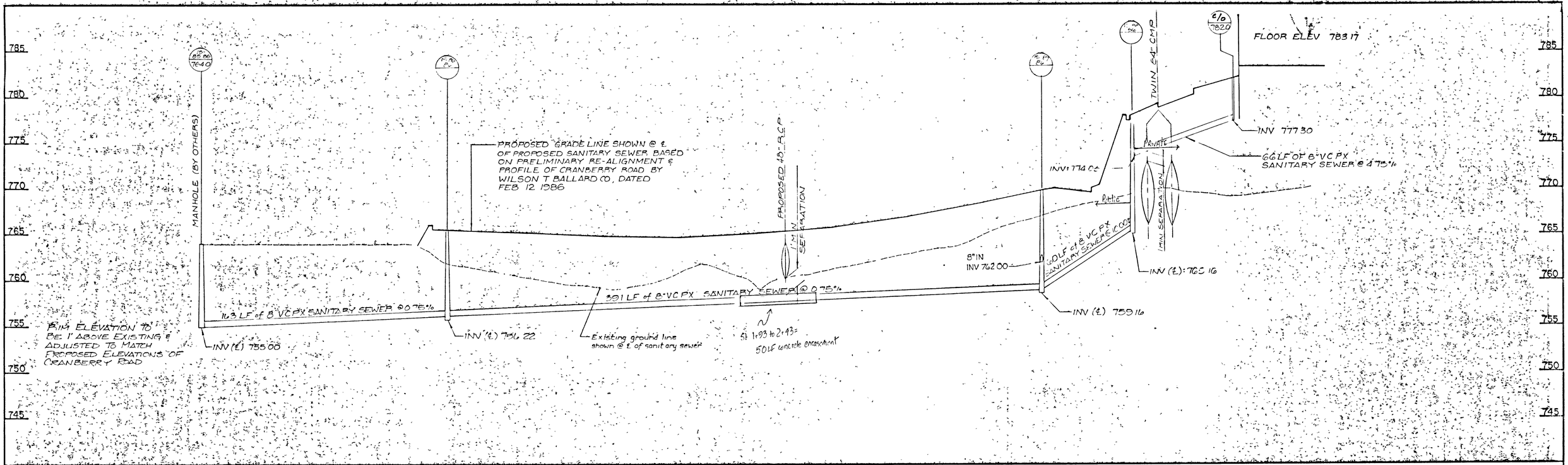
DATE	REVISION	BY
11 23 86	Style of electronic per City com't	GGS
5-06 86	REV BWM PER County Com	LMD

ENGINEERS LAND PLANNERS & SURVEYORS
111 JOHN STREET / WESTMINSTER MARYLAND 21157
(301) 848 1780 / 876 2017
539 POPLAR STREET / CAMBRIDGE MD 21613 (301) 228-3150
1052 WEST STREET / LAUREL MD 20707 (301) 792-8796

SURVEYED BY
COMPUTED BY
DRAWN BY L G D
CHECKED BY
Drwg No

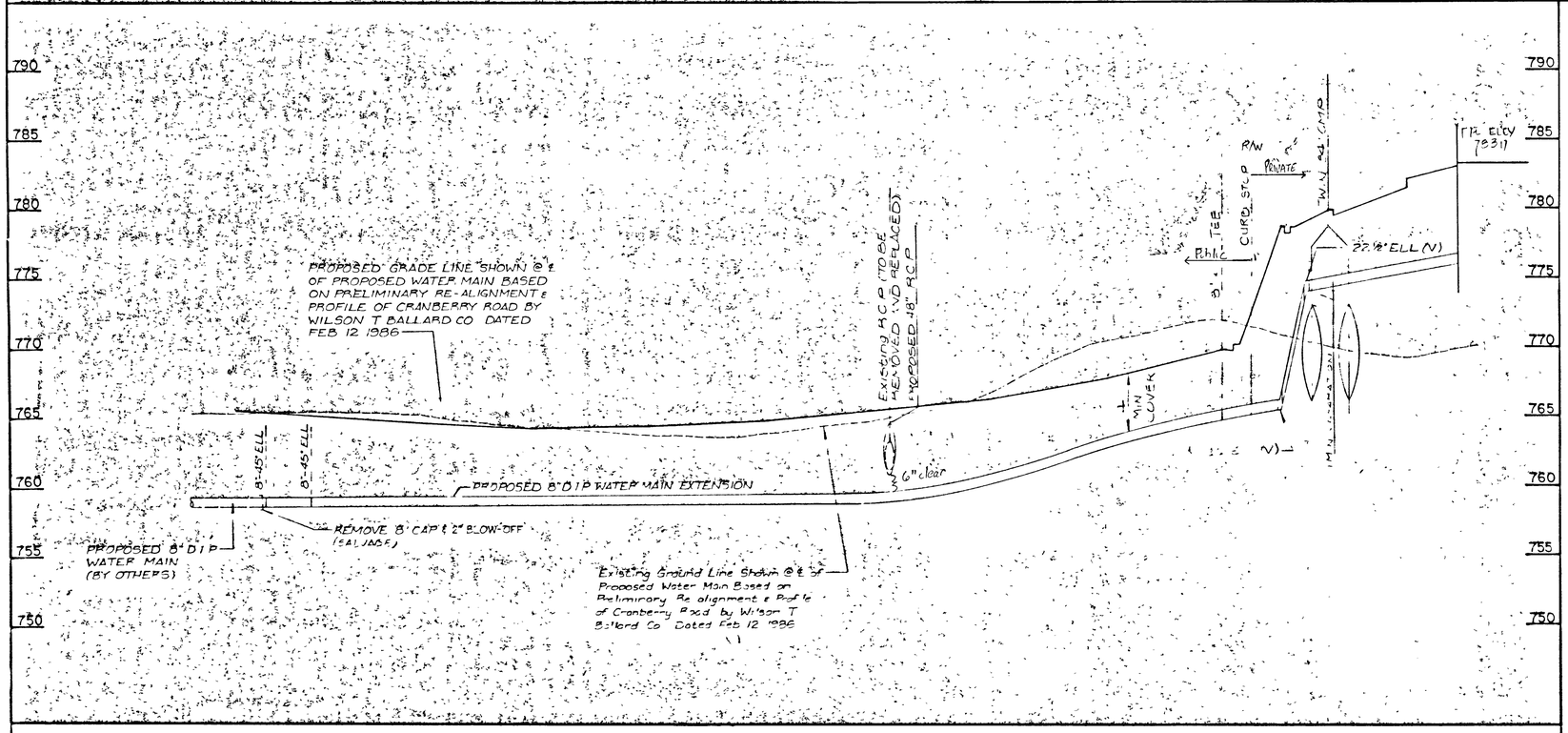
DATE APRIL 1986 SCALE AS NOTED

#8282



SANITARY SEWER PROFILE

HORZ 1"=30'
VERT 1"=5'



WATER MAIN EXTENSION PROFILE

HORZ 1"=30'
VERT 1"=5'

SANITARY SEWER AND WATER MAIN PROFILES FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

SITUATED ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 46 BLOCK 2 PARCEL 9
WESTMINSTER CARROLL COUNTY MARYLAND

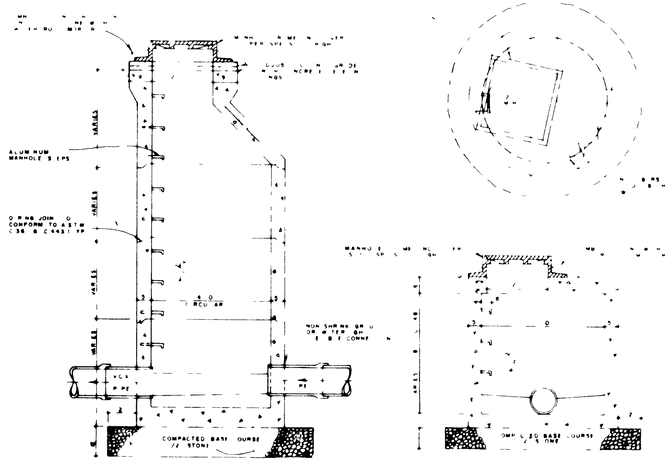
LGD	DATE	REVISIONS
	8-06-86	BY S.W.M. PER COUNTY COM

KIDDE CONSULTANTS, INC.
ENGINEERS • ARCHITECTS • PLANNERS

SHEET	DATE	JOB NUMBER
10 OF 13	APRIL 1986 SCALE 45' SHOWN	1585237

3.3.3

8283

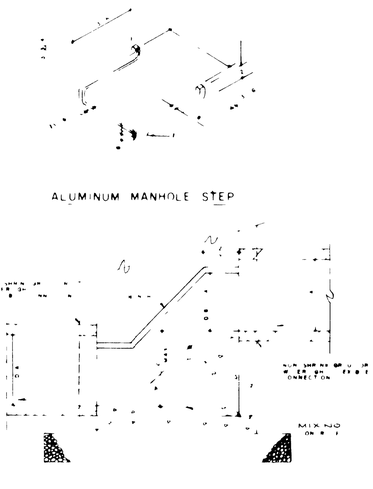


PRECAST CONCRETE MANHOLE TYPE 1
WITH A CONNECTION

PRECAST CONCRETE MANHOLE TYPE 2

NOTES
1) REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 NEW BILLET STEEL
2) ALL REINFORCEMENT SHALL BE CLEAN AND FREE OF LOOSE RUST, SCALE, OIL AND OTHER MATTER WHICH MAY DESTROY OR REDUCE THE BOND

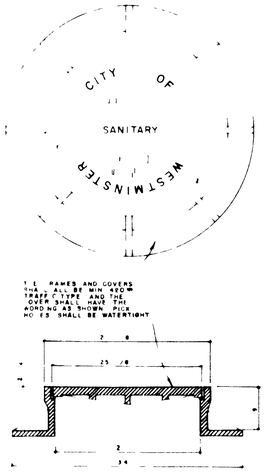
TYPICAL CONCRETE ANCHOR



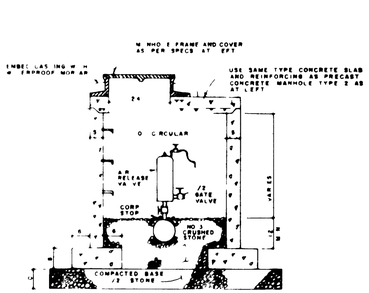
BRICK MANHOLE TYPE 3

ALUMINUM MANHOLE STEP

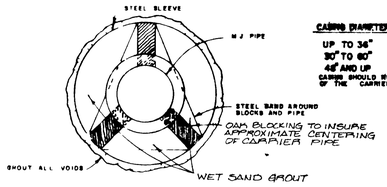
MANHOLE CHUTE



MANHOLE FRAME & COVER



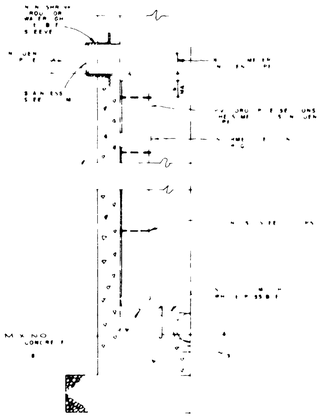
AIR RELEASE VALVE IN MANHOLE



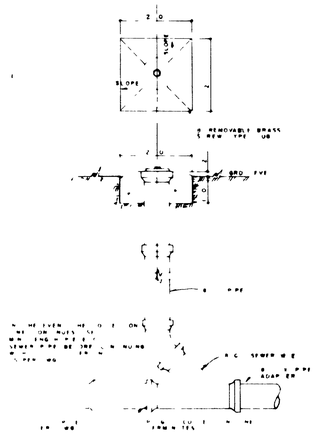
CASING DIAMETER	MAX LENGTH	INSTALLATION METHOD
UP TO 36"	175'	BORING
30" TO 60"	200'	JACKING
48" AND UP	NO MAX	TUNNELING

CASING SHOULD NORMALLY BE 6" TO 8" LARGER THAN THE MAX O.D. OF THE CARRIER PIPE BELLS

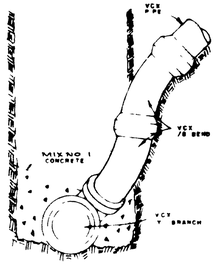
SLEEVE & CARRIER PIPE INSTALLATION



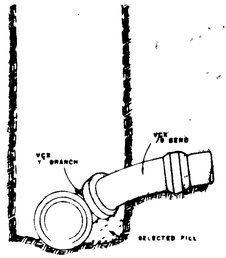
INSIDE DROP CONNECTION



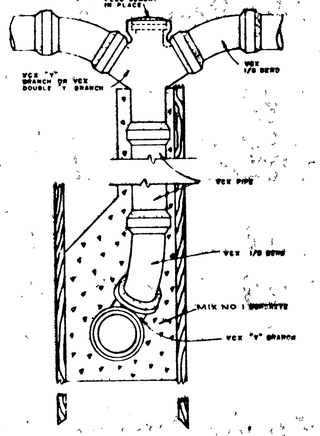
CLEANOUT DETAIL



TYPE A

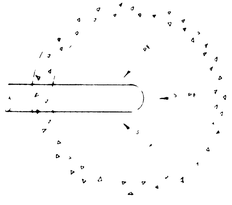


TYPE B



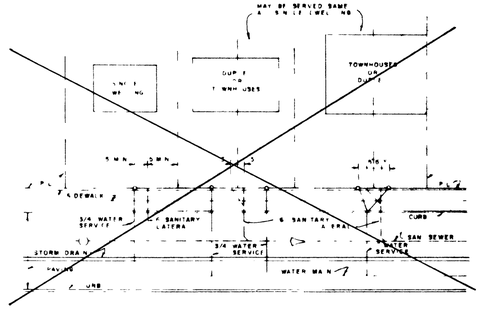
TYPE "C"

HOUSE CONNECTIONS

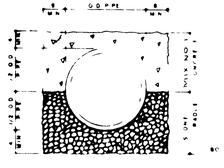


INVERT AT TERMINAL MANHOLE

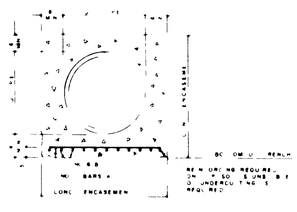
TRENCH WIDTH PER PIPE SIZES



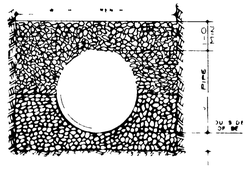
~~TYPICAL METHODS FOR SEWER SERVICE~~



CONCRETE ARCH PROTECTION



CONCRETE ENCASEMENT



STONE BEDDING STANDARD INSTALLATION

GENERAL NOTES

MANHOLES

PRECAST CONCRETE MANHOLE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION C 478 A 15 REQUIREMENTS

2. ON ALL SEWERS THE FIRST JOINT OUTSIDE THE MANHOLE (BOTH INLET AND OUTLET) SHALL BE WITHIN 2' OF THE OUTSIDE FACE OF THE MANHOLE
3. ALL INVERTS OF MANHOLES TO BE KEPT TO GRADE WITH SMOOTH AND EVEN FINISH
4. ALL OPENINGS FOR PIPES IN PRECAST MANHOLES WITHOUT FLEXIBLE CONNECTIONS SHALL BE CAST WITH KEY FOR GROUTING OF PIPES
5. STONE AND CONCRETE AS SPECIFIED SHALL CONFORM TO MD S H A STANDARD SPECIFICATIONS

HOUSE CONNECTIONS

WHERE CAST IRON MAINS ARE USED THE DROP CONNECTIONS SHALL BE CAST IRON AND SHALL RISE VERTICALLY FROM MAIN LINE TEE FITTINGS NO CONCRETE ENCASEMENT IS REQUIRED

#8284

CITY OF WESTMINSTER

McSHEA BUILDING

STANDARD SANITARY SEWER DETAILS

11 of 13

1585237/25245

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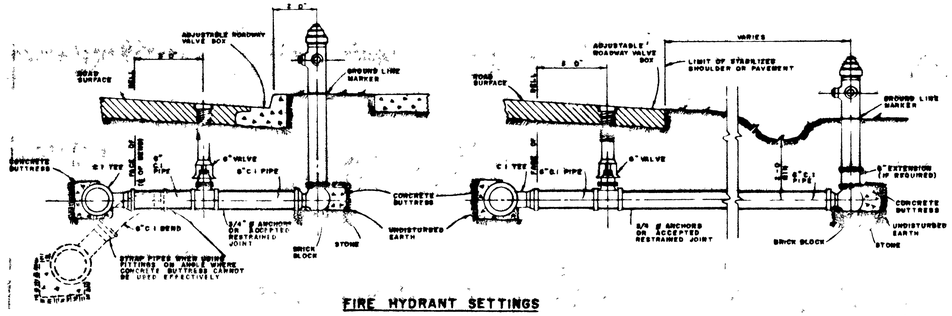
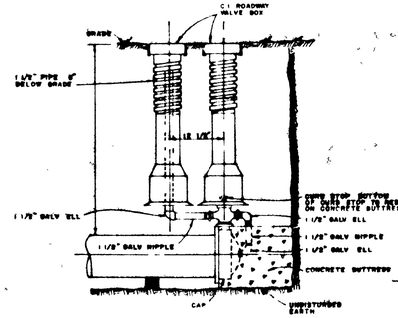
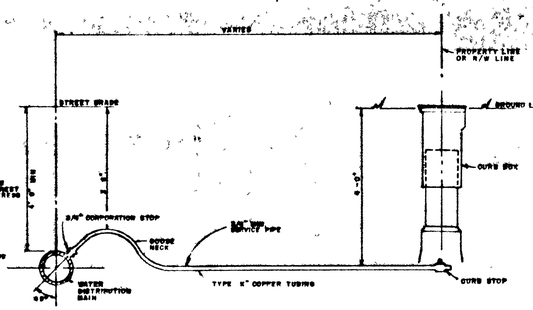


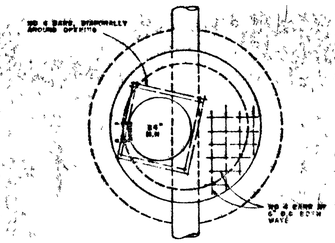
FIRE HYDRANT SETTINGS

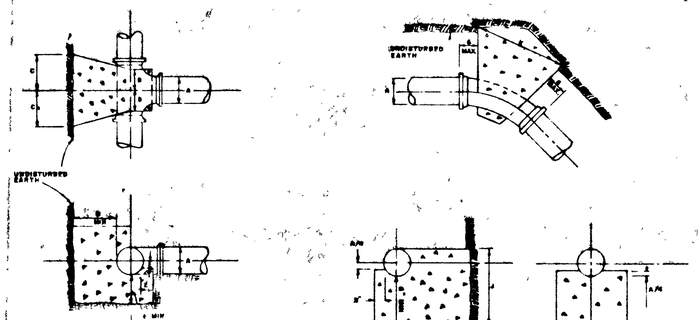


CAP AND BLOW-OFF



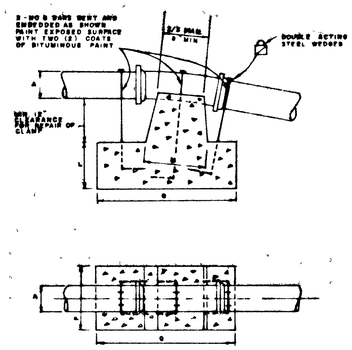
HOUSE SERVICE CONNECTION



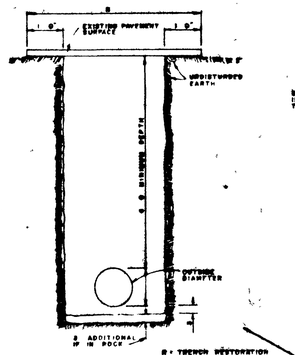


BUTTRESS FOR TEES

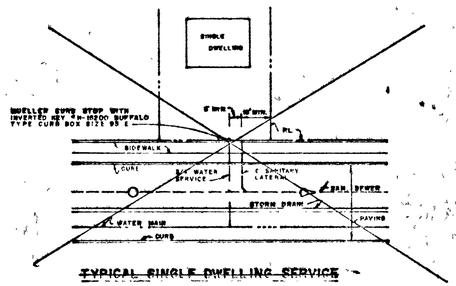
BUTTRESS FOR HORIZONTAL AND VERTICAL BENDS



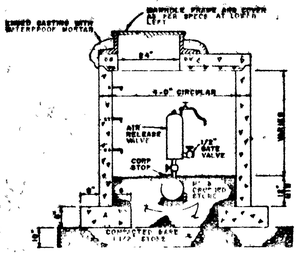
ANCHORAGE FOR VERTICAL BENDS



TRENCH DETAIL



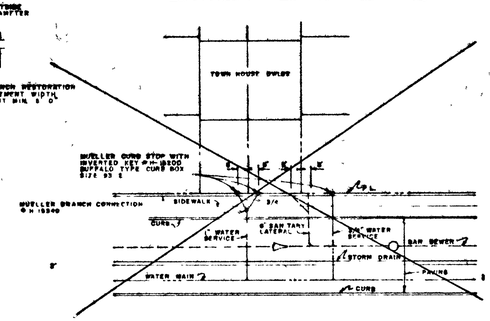
TYPICAL SINGLE DWELLING SERVICE



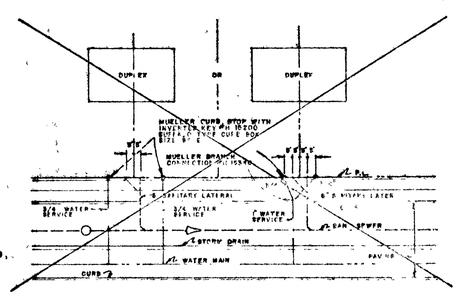
AIR RELEASE VALVE IN MANHOLE

TYPICAL WATER SERVICE MATERIAL LIST

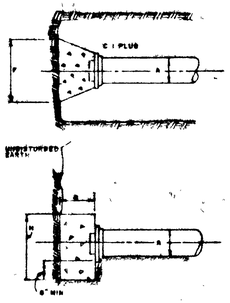
1. CORPORATION STOP MUELLER TYPE MUELLER #H 15000
2. CURB STOP INVERTED KEY MUELLER #H 15200
3. CURB BOX - BUFFALO TYPE MUELLER #H 10350 SIZE 96-E
4. BRANCH CONNECTION MUELLER #H 15340
5. ALL COPPER SERVICE LINES - TYPE K



TYPICAL TOWNHOUSE SERVICE



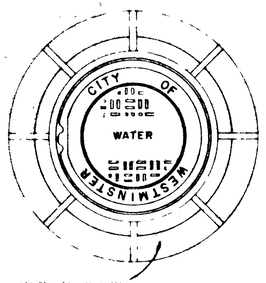
TYPICAL DUPLEX DWELLING SERVICE



BUTTRESS FOR CAPS

MINIMUM BUTTRESS DIMENSIONS

	PIPE SIZE	6	8	10"	12"	16
A		7"	9	10"	12	14
B		7	9"	13	15	20"
C		10	10	10	15	14"
D		15	2'	2.5'	3'	4
E		15	21	30"	39"	56"
F		9	8"	10	10"	13"
G		10	10"	20"	22"	28
H		10"	12	14"	16	20
K	11 3/4°	13"	13"	14"	18"	20
	22 1/2	13"	15"	16"	18"	28
	45°	15"	24"	22	42"	58"
	90°	28	43	46	72"	102
L	11 1/4°	18	24"	26	30	38
	22 1/4°	24"	24"	30	30"	46"
	45°	26	30	42	46"	54
M		30	26	30	30"	36"
P	11 1/4°	18	26"	30"	30"	36
	22 1/2°	24"	30	36"	42	48
	45°	30	36	42	48	60
Q	11 1/4	24	24	30	36	42"
	22 1/2°	30	36	42"	48"	54"
	45°	42	48	54"	60	72



MANHOLE FRAME & COVER

GENERAL NOTES

1. ALL CONCRETE TO BE MIX NO. 1
2. CARRY CONCRETE BUTTRESSES TO UNDISTURBED EARTH
3. BUTTRESS DIMENSIONS SHOWN ARE MINIMUM. DIMENSIONS ARE BASED UPON SOIL BEARING VALUE OF 2000 P.S.F. AND SHALL BE INCREASED FOR LESS SOIL BEARING PRESSURE IN LIEU OF INCREASING DIMENSIONS, CONCRETE OF RICHER MIX MAY BE SPECIFIED TO PROVIDE
4. ALL WATER MAINS AND LATERAL SHALL HAVE A MINIMUM COVER OF 4' 0"
5. THE CITY MAY ACCEPT EQUAL MATERIALS IF SUBMITTED BY THE CONTRACTOR

#8285

NO.	REVISION	DATE	BY
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8			
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DRAWN: RCH FEB 20 1978
CHECKED:
APPROVED BY:
SCALE: NO SCALE

CITY OF WESTMINSTER
DEPARTMENT OF PLANNING AND PUBLIC WORKS
CITY HALL
WESTMINSTER MARYLAND, 21157

REGISTRATION NO.

McSHEA BUILDING

STANDARD DETAILS FOR WATER MAINS

SHEET NO. 12 OF 13
PROJECT NO. 1977/2383
AGENT

STONE OUTLET SEDIMENT TRAP V

OPTION A one foot layer of 2 stone may be placed on the upstream side of the riprap in place of the embedded filter cloth

CONSTRUCTION SPECIFICATIONS FOR S V

1. Area under embankment shall be cleared grubbed and stripped of any vegetation and root mat The pool area shall be cleared
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones rocks organic material or other objectionable material The embankment shall be compacted by traversing with equipment while it is being constructed
3. All cut and fill slopes shall be 2 1 or flatter
4. The stone used in the outlet shall be small riprap 4 -8 along with a 1 thickness of aggregate placed on the up-grade side on the small riprap embedded filter cloth in riprap
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap
6. The structure shall be inspected after each rain and repairs made as needed
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized

Drainage Area 3 Acres

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING

STRAW BALE DIKE

CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE ... END TIGHTLY ABUTTING THE ADJACENT BALES
2. EACH BALE SHALL BE EMBEDDED ... THE BINDINGS ARE HORIZONTAL
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY ... THE TWO STAKES ... THROUGH THE BALE ... PREVIOUSLY LAID BALE ... DRIVE FLUSH WITH THE BALE
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT ... NEEDED
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS ... OF UPGRADE ...

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	STRAW BALE DIKE	STANDARD DRAWING

EARTH DIKE

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET ... MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED ... BY CONSTRUCTION TRAFFIC
3. ... LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET ... EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION ... SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED
4. ... SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON (B) FLOW CHANNEL ...

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5 3 0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3 1 5 0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR SOD 2" STONE
3	5 1-8 0%	SEED WITH JUTE OR SOD 2" STONE	LINED RIP RAP 4-8
4	8 1 20%	LINED RIP RAP 4 8'	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE OR RECYCLED CONCRETE EQUIVALENT IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT
B. RIP RAP TO BE 4 8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	EARTH DIKE	STANDARD DRAWING

STABILIZED CONSTRUCTION ENTRANCE
not to scale

STANDARD SYMBOL SCE

CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone or reclaimed or recycled concrete equivalent
2. Length - As required but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply)
3. Thickness - Not less than six (6) inches
4. Width - Ten (10) foot minimum but not less than the full width at points where ingress or egress occurs
5. Filter Cloth - Will be placed over the entire area prior to placing of stone Filter will not be required on a single family residence lot
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance If piping is impractical a mountable berm with 5 1 slopes will be permitted
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment All sediment spilled dropped washed or tracked onto public rights-of-way must be removed immediately
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way When washing is required it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device
9. Periodic inspection and needed maintenance shall be provided after each rain

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park Md	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1

Soil Conservation District Certification

The Development Plan is Approved For Soil Erosion And Sediment Control By The Carroll Soil Conservation District

Approved [signature] 2/5/86
Carroll SCD Date

Soil Conservation Service Certification

Reviewed for Carroll SCD
Name

and meets Technical Requirements

[signature] Date 8/5/86
Signature

U S Soil Conservation Service

DEVELOPER

I certify that this plan of Sediment Control will be implemented to the fullest extent and all structures will be installed to the design and specifications as spelled out in this plan and any responsible personnel involved in the construction project will have a certificate of attendance at a Water Resources Administration approved training program for the control of sediment and erosion before beginning the project I also authorize periodic on site evaluation by the Carroll Soil Conservation District personnel and cooperating agencies

John F McShea III 6/5/86
Owner Date

SURVEYOR

I certify that this plan of Sediment Control is designed with my personal knowledge of the site conditions and has been designed to the Standards and Specifications adopted by the Carroll Soil Conservation District

[signature] 6/5/86
Date

SEDIMENT CONTROL NOTES

1. No grading can take place until the Grading Permit has been issued by the Permits and Inspections Department or where an approval letter has been received by the owner from the Carroll Soil Conservation District
2. Structural measure such as berms dikes traps basins etc will be installed and stabilized according to this plan prior to any other grading clearing, or disturbance of the existing surface of the site
3. On-site inspection and maintenance of all sediment control measures including clean out of sediment traps and berms and proper establishment of all planned vegetative measures will be the responsibility of the Developer on the site on a continuing day to day basis
4. Sediment trapped behind sediment trapping facilities shall be removed as shown on plans
5. Appropriate sediment control measures to be installed prior to and in accordance with stages of related road and other construction according to the plan
6. On all diversion dikes positive flow will be established to sediment control structures from planned contributing runoff areas
7. Flow from all disturbed areas to be directed to a sediment control device as shown on approved plans until the area is fully stabilized
8. Parabolic grass waterways as shown on plans shall be adequately established in grass growth prior to release of Bond
9. Jute thatching to be applied to all parabolic waterways and secured using 8 gauge 'U' shaped wire staples six (6) inches long
10. All temporary sediment control measures are to be removed and these areas stabilized prior to release of sediment control bond

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 APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF SEDIMENT CONTROLS

STABILIZATION SPECIFICATIONS

Temporary seeding dates March 1 to November 15
1. Loosen area by discing raking or other acceptable means
2. Fertilize using 10-20-10 or equivalent at 600 lbs/ac or 15 lbs/1000 s f Soils known to be highly acid should be limed
3. Seed using any one of the following
   Barley at 2 8 lbs/1000 s f or 122 lbs/ac or
   Oats at 2 2 lbs/1000 s f or 96 lbs/ac or
   Rye at 3 2 lbs/1000 s f or 140 lbs/ac
4. Mulch using unrotted small grain straw at 1½ 2 tons/ac or 70-90 lbs/1000 s f
5. Apply emulsified asphalt at 5 gals/1000 s f or 218 gals/ac on flat areas or where slope is less than 8 high On slopes 8 feet or higher than 8 or steeper than 3 1 apply emulsified asphalt at the rate of 8 gals/1000 s f or 348 gals/ac

Permanent seeding dates March 1 to October 30
1. Loosen top of grade and lime at the rate of 4000 lbs per acre
2. Place topsoil minimum depth
3. Fertilize using 10-10-10 at the rate of 1000 lbs/ac or 23 lbs/1000 s f
4. Seed using Kentucky - 31 tall fescue at the rate of 60 lbs/acre or 38 lbs/1000 s f During the period of ... add ... weeping lovegrass ... at the rate of ... lbs/ac or 0 0 lbs/1000 s f
5. Apply straw mulch and emulsified asphalt binder as specified above for temporary stabilization

Tracking note
On areas where the slope is 3 1 or steeper and the height is 8 or greater Contractor shall track the slope using tracked dozer prior to placing asphalt binder dozer shall ... tracking is required it shall be done from ... level to finished grade ... within the limits established by the 8 height criteria

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION (SPECIFIED ON PLANS) SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS DIKES SWALES, DITCHES PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3 1) AND FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE

TEMPORARY SWALE

CONSTRUCTION SPECIFICATIONS

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND		STANDARD DRAWING

SILT FENCE

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 AND MID SECTION
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES 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, 14 GA 6" MAX MESH OPENING

FILTER CLOTH FILTER X, MIRAFI 100X STABILINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	SILT FENCE

SEDIMENT AND EROSION CONTROL DETAILS

FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

13 of 13

KIDDE CONSULTANTS, INC

[signature]
June 6, 1986

#8286

GENERAL NOTES

1 ALL CONSTRUCTION ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE GENERAL SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION" AND THE BOOK OF STANDARDS HIGHWAY AND INCIDENTAL STRUCTURE AND HIGHWAY DRAINAGE MANUAL OF THE MARYLAND STATE HIGHWAY ADMINISTRATION "1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE AND ALL ADDENDA AND ERRATA TO ANY AND ALL OF THE ABOVE

2 THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY CONTRACTOR SHALL VERIFY THE EXISTENCE LOCATION AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK

3 CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MIN OF (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF UTILITIES

4 CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE OF KIDDE CONSULTANTS INC AT (301) 848-1790 OR (301) 876-2017 IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADE PRIOR TO BEGINNING WORK

5 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON ANY EXISTING ROADS

6 THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS THE FIGURED DIMENSION SHALL GOVERN

7 IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK

8 THE CONTRACTORS ATTENTION IS SPECIFICALLY DIRECTED TO PAGE 16 SECT 12 00 "GENERAL" UNDER THE SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION ITEM 12 01 AND 12 02 ARE HEREBY MADE A PART OF THE CONTRACT

9 THE CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES AT LEAST 72 HOURS BEFORE STARTING ANY CONSTRUCTION

BALTIMORE GAS & ELECTRIC CO	234-3691
C & P TELEPHONE CO	539-9977
MISS UTILITY-CALL	1-800 257-7777

10 THE CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENT CONTROL FACILITIES AS SHOWN ON THE PLAN ALONG THE COURSE OF HIS CONSTRUCTION THE FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

11 ALL PAVING DISTURBED BY THE CONTRACTOR S OPERATION SHALL BE REPLACED IN ACCORDANCE WITH COUNTY ROADS DETAILS

12 ALL STORM DRAINAGE CULVERTS LOCATED AT OR NEAR EXISTING SWALES ARE INTENDED TO BE IN THE SWALES UNLESS OTHERWISE NOTED

13 ALL RIP RAP SPECIFIED SHALL BE LOOSE LAID STONE RIP RAP PLACED AT STORM DRAIN OUTFALLS IN EXISTING SWALES SHALL BE PLACED SO AS TO COMPLETELY LINE THE EXISTING SWALE WITH ONLY THE MINIMUM POSSIBLE GRADING OR SHAPING OF THE SWALE

14 INLET GRATES IN SUMPS SHALL BE CONSTRUCTED LEVEL AT THE ELEVATION GIVEN IN THE STRUCTURE SCHEDULE INLETS ON GRADE SHALL BE ADJUSTED SO THAT THE GRADE OF THE GRATE MATCHES THE FINISHED FLOW LINE OF THE CURB TOP ELEV SHALL BE THE TOP OF INLET GRADE AT THE INTERSECTION OF THE CENTERLINE OF INLET AND FLOW LINE AT BASE OF CURB

15 STORM DRAIN PIPE FOR THIS PROJECT SHALL BE CORRGATED METAL PIPE NOTED MP UNLESS OTHERWISE NOTED ON PLANS

16 ALL CURB FILLET RADII SHALL BE AS SHOWN ON THE PLANS

17 ALL RIP RAP FOR THIS PROJECT SHALL BE SIZED IN ACCORDANCE WITH MARYLAND SCS/W R A STANDARDS AND SPECIFICATIONS FOR ROCK OUTLET PROTECTION

SITE DEVELOPMENT PLAN

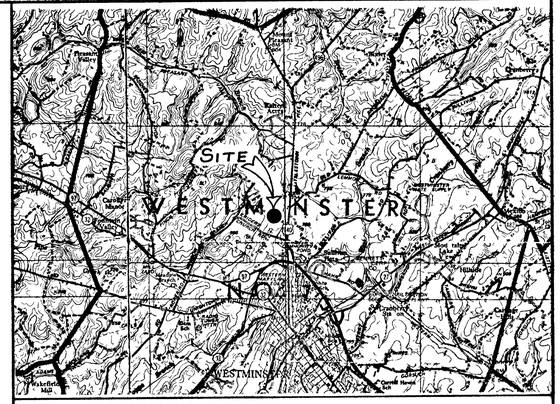
MANUFACTURING FACILITY

FOR

FLECK, MILLER, & SMITH INC.

LOT F-I

CARROLL COUNTY AIR BUSINESS CENTER



VICINITY MAP

LIST OF DRAWINGS

1 TITLE SHEET
2 SITE DEVELOPMENT PLAN
3 GRADING PLAN
4 SEDIMENT CONTROL PLAN
5 SEDIMENT CONTROL DETAILS
6 LANDSCAPE PLAN

REVISIONS

NO	DATE	REVISION	BY
1	9-10-86	REVISED AS PER COUNTY COMMENTS	TAB

OWNER	DEVELOPER	PREPARED BY
COUNTY COMISSIONERS OF CARROLL COUNTY 225 N CENTER STREET WESTMINSTER MARYLAND 21157	FLECK MILLER & SMITH INC 2515 RIDGE ROAD WESTMINSTER MARYLAND 21157	KIDDE CONSULTANTS, INC CONSULTING ENGINEERS AND SURVEYORS 439 EAST MAIN STREET WESTMINSTER MARYLAND 21157 (301) 848-1790 / 876-2017

CARROLL COUNTY ZONING ADMINISTRATOR APPROVAL
BY Solveig L Smith DATE 10-10 86

CARROLL COUNTY FIRE PROTECTION ENGINEER
BY [illegible] DATE

CARROLL COUNTY HEALTH DEPARTMENT APPROVAL
BY [illegible] DATE 10/8/86

Scott R. Campbell 9 23-86
FIRE PROTECTION ENGINEER DATE

CK DT 10/14/86

CITY OF WESTMINSTER

[illegible]
DIRECTOR OF PLANNING AND PUBLIC WORKS DATE

N A
MAYOR DATE

CORPORATION OF WESTMINSTER 1838

APPROVED AS TO SHEETS 1 THROUGH 6

[illegible]
CONSERVATION DISTRICT ~~MANAGER~~ 9/26/86 ATE

[illegible]
ENGINEERING Edward A Hall 9 18 86

[illegible] 10 11 86

[illegible]

#8921

10-9-86

SHEET 1 OF 6 DWG NO-1586P C

GENERAL NOTES

1. Property shown hereon is owned by the County Commissioners of Carroll County and is known as Lot F-1 as designated and shown on the record plat entitled "Resubdivision of Tract F Lot A-1 and Parcel A Carroll County Air Business Center Recorded in Plat Book 27, Plat 191
2. The existing topography shown on the grading plan, sheet 3 of 6 has been field run by Kidde Consultants Inc
3. Property shown hereon is zoned IR and is subject to the "Dec aration of Protective Covenants" recorded in Liber 776 Folio 602
4. Area of property 3.8222 acres
5. Proposed use manufacturing
6. See title sheet sheet 1 of 6 for additional general notes

PARKING TABULATION

Number of parking spaces required: 1 space for every 1.5 employees on maximum hift

Number of employees on maximum shift: 70

Parking required: 70 ÷ 1 5 = 47 spaces

Parking provided: 71 spaces @ 9 x 20

Plus 3 handicapped spaces @ 12 x 20

Total spaces = 74

#8922

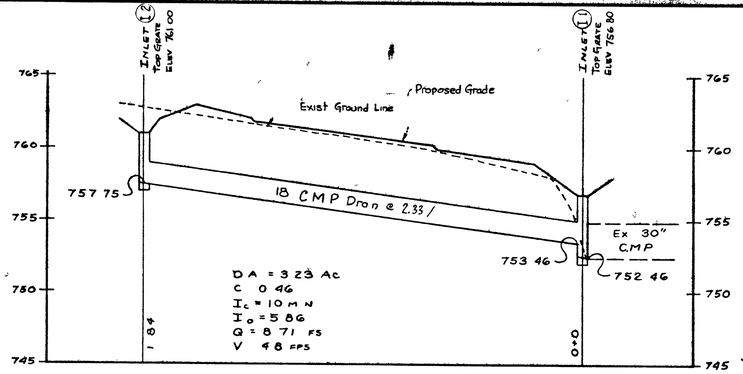
Drafting	DATE	EVISIONS
Check		
Design		
Check		

KIDDE CONSULTANTS, INC.
ENGINEERS SURVEYORS PLANNERS
439 EAST MAIN STREET WESTMINSTER MARYLAND 21157 301-876 2017

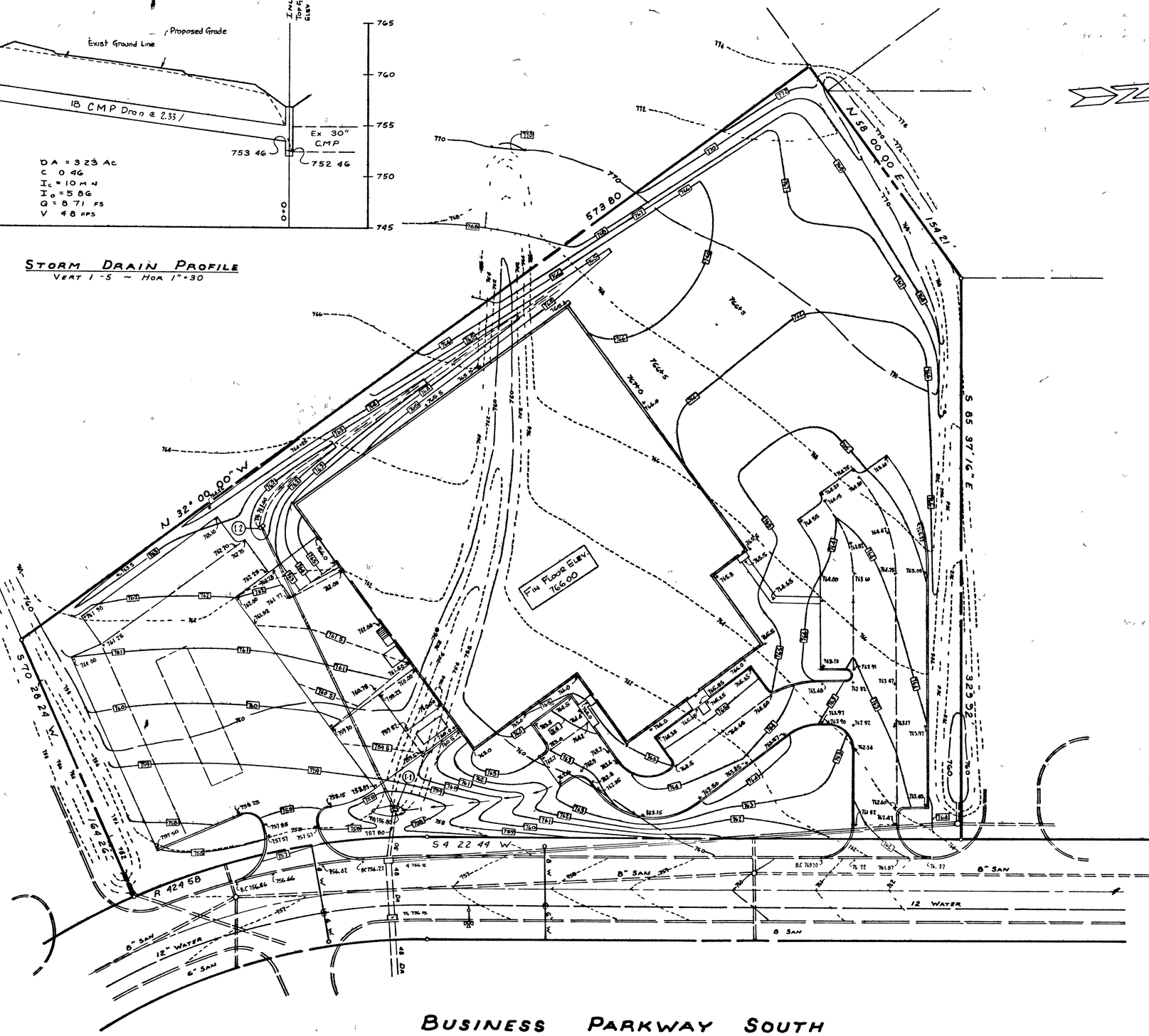
SITE DEVELOPMENT PLAN
LOT F-1

CARROLL COUNTY AIR BUSINESS CENTER
WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN PB 27 P 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD

SHEET	DATE	JOB NUMBER
2 OF 6	August 5, 1986	1586 210
	SCALE 1" = 30	



STORM DRAIN PROFILE
VERT 1 -5 ~ HOR 1" = 30



BUSINESS PARKWAY SOUTH

GRADING PLAN
LOT F-1

#8923

Drafting	DATE	REVISIONS
Check		
Design		
Check		

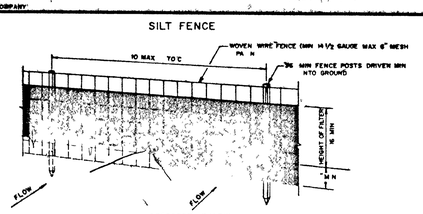
KIDDE CONSULTANTS, INC.
ENGINEERS SURVEYORS PLANNERS
439 EAST MAIN STREET WESTMINSTER MARYLAND 21157 301-876-2017

CARROLL COUNTY AIR BUSINESS CENTER
WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN PB 27 P 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD

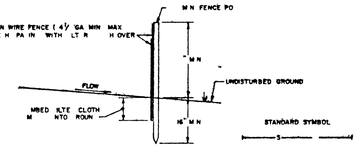
SHEET	DATE	JOB NUMBER
3 OF 6	August 5, 1986	1586210
	SCALE 1" = 30'	

KEUFFEL & ESSER COMPANY

SILT FENCE



PERSPECTIVE VIEW



SECTION

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 AND MID SECTION
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGE DEVELOP IN THE SILT FENCE

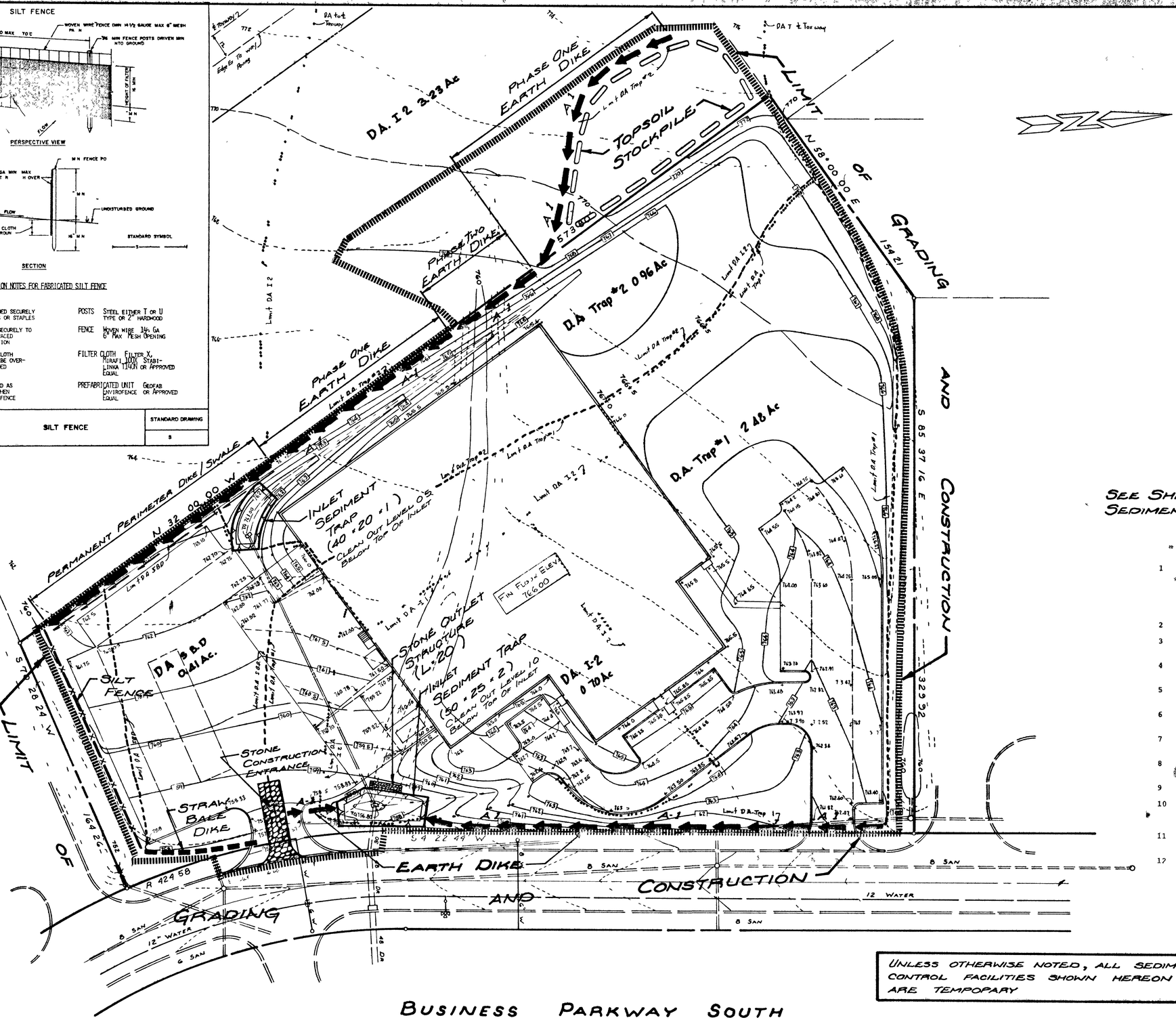
POSTS STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE WOVEN WIRE 14½ GA 6" MAX MESH OPENING

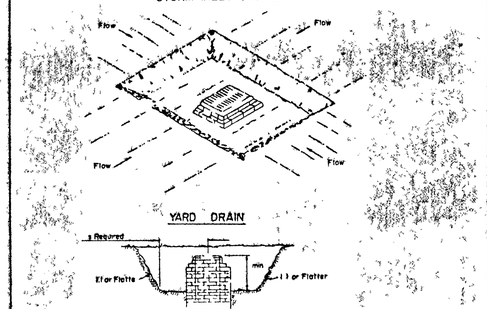
FILTER CLOTH Filter X, Mirafi 100X Stabi-Linka 130N or Approved Equal

PREFABRICATED UNIT Geofab Envirofence or Approved Equal

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	SILT FENCE	STANDARD DRAWING 8



STORM INLET SEDIMENT TRAP ST III



CONSTRUCTION SPECIFICATION FOR ST III

1. Sediment shall b removed and the trap r st red to its original dim nsions wh th sediment h s umul ted ½ h d ix depth of th trap Rem v d s din t h ll b d posited in a suit ble ar and in such mann r th t it will n t erod
2. The volum of s dim nt stor ge sh ll be 1800 cubi feet per a re of c ntributory dr in g
3. Th ruc ure h ll b inspe ted after e h r i a d repairs mad s n eded
4. Construction operations sh ll be car ied out in su h a ma n r that erosi nd water pollution hall be mi imized
5. Th s diment trap hall b removed and the re stabili ed when the cons ructed dr inag ar has be pr perly stabilized
6. All cut sl pes sh ll be 1:1 or flatt r

Maximum Drainage Area 3 Ac es

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	STORM INLET SEDIMENT TRAP	STANDARD DRAWING ST III

SEE SHEET 5 OF 6 FOR ADDITIONAL SEDIMENT CONTROL DETAILS

REQUIRED SEQUENCE OF CONSTRUCTION

1. Install stabilized construction entrance stone outlet structure across existing drainage ditch in front of existing 30 drain earth dike (phase one alo g rear property line) perimeter dike/ swale along rear property lin earth dike and straw bal along front property line and silt fence along top of ditch on south property line). Notify the Water Resources Adm nistration inspector before proceeding further
2. Strip and stockpile topsoil
3. B ginning rough grading of site and construct storm drainage inlets and pipe
4. Upon completion of inlet I-1 complete ba kfill of existing drainage ditch around inlet and construct nlet sediment trap #1
5. Upon completion of inlet I-2 complete backfill around inlet and construct inlet sediment trap #2
6. Upon completion and stabilization of backfill in existing drainage ditch west property l ne constru t earth dike phase two
7. Complete rough site grading beginning building and utility construction
8. Fine grade driveways, parking areas and loading areas and install stone base course
9. Install curbs
10. Fine grade areas to be grassed spread topsoil (2" minimum) and stabilize with permanent seeding a specified in "Method of Stab lization"
11. R move sedim nt control structures in driveways and install bituminou paving
12. With approval of the inspection agency remove earth dike , storm inlet sediment traps and silt fence backfill and grade and stabilize with permanent seeding as sp cified above

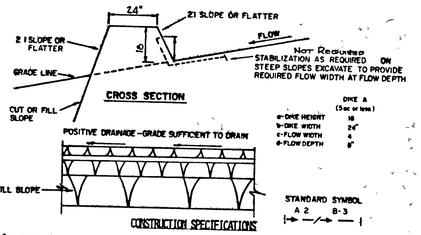
UNLESS OTHERWISE NOTED, ALL SEDIMENT CONTROL FACILITIES SHOWN HEREON ARE TEMPOPARY

#8924

3/10/86	Revised per SAC Comments	KIDDE CONSULTANTS, INC. ENGINEERS SURVEYORS PLANNERS 1020 EAST MAIN STREET WESTMINSTER MARYLAND 21157 (301) 876-2277			CARROLL COUNTY AIR BUSINESS CENTER WEST SIDE OF BUSINESS PARKWAY SOUTH RECORDED IN PB 27, P 191 7TH ELECTION DISTRICT, CARROLL COUNTY MD	SHEET 4 OF 6	DATE August 5 1986 SCALE 1"=30'	JOB NUMBER 1586 210

SEDIMENT CONTROL PLAN
LOT F-1

EARTH DIKE
not to scale



CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED
6. STABILIZATION SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW

FLOW CHANNEL STABILIZATION

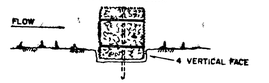
TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3 0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5 0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR SOD, 2" STONE
3	5 1-8 0%	SEED WITH JUTE OR SOD 2" STONE	LINED RIP-RAP 4-8"
4	8 1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

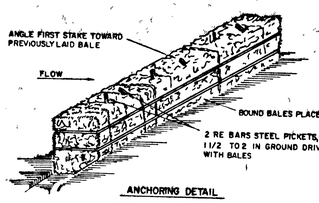
U.S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	EARTH DIKE	STANDARD DRAWING ED 1

STRAW BALE DIKE



BEDDING DETAIL

STANDARD SYMBOL
SBD



ANCHORING DETAIL

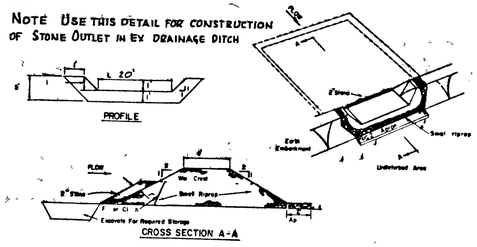
CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES AND PLACED SO THE BINDINGS ARE HORIZONTAL
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE

U.S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	STRAW BALE DIKE	STANDARD DRAWING SBD 1

STONE OUTLET SEDIMENT TRAP V

NOTE USE THIS DETAIL FOR CONSTRUCTION OF STONE OUTLET IN EX DRAINAGE DITCH



OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth

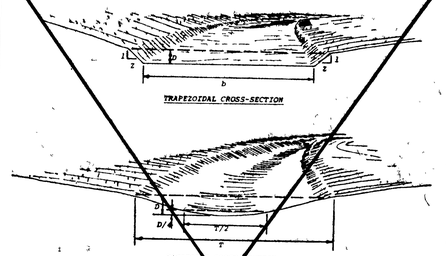
CONSTRUCTION SPECIFICATIONS FOR ST-V

1. Area under embankment shall be cleared grubbed and trapped of any vegetation and root mat. The pool area shall be cleared
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stone rock organic material or other objectionable material. The embankment hall be compacted by traversing with equipment while it is being constructed
3. All cut and fill slopes shall be 2:1 or flatter
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the riprap
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap
6. The structure shall be inspected after each rain and repairs made as needed
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized
8. The structure shall be removed and the area at bilized when the drainage area has been properly stabilized

Maximum Drainage Area 5 Acres

U.S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING ST-V

GRASSED WATERWAY



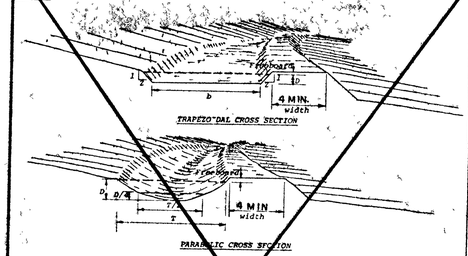
Construction Specifications

1. All trees brush stumps obstructions and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the waterway
2. The waterway shall be excavated or shaped to line grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the completed waterway
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the waterway
5. Stabilization shall be done according to the appropriate Standard and Specifications for Vegetative Practices
   A. For design velocities of less than 3.5 ft per sec seeding and mulching may be used for the establishment of the vegetation. It is recommended that when conditions permit temporary diversions or other means should be used to prevent water from entering the waterway during the establishment of the vegetation
   B. For design velocities of more than 3.5 ft per sec the waterway shall be stabilized with sod with seeding protected by jute or excelsior matting or with seeding and mulching including temporary diversion of water until the vegetation is established
   C. Structural Vegetative Protection
      (1) Subsurface drain for base flow shall be constructed as shown on the Standard Drawing and as specified in the Standard and Specifications for Subsurface Drain

Standard Symbol GW

U.S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park MD	GRASSED WATERWAY	Standard Drawing GW-1

DIVERSION



Construction Specifications

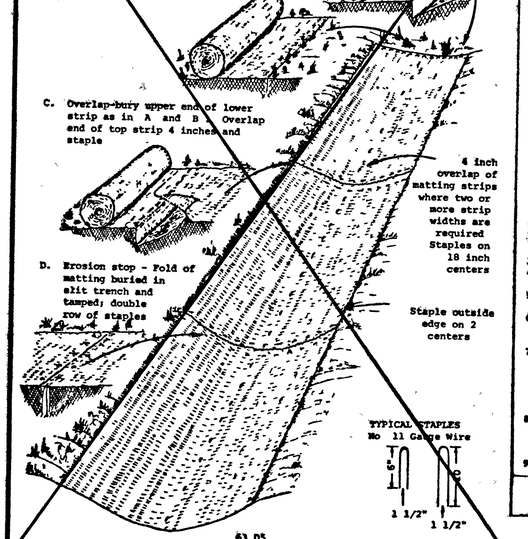
1. All trees brush stumps obstructions and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the diversion
2. The diversion shall be excavated or shaped to line grade and cross section as required to meet the criteria specified herein and be free of irregularities which will impede normal flow
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the completed diversion
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the diversion
5. Stabilization shall be done according to the appropriate Standard and Specifications for Vegetative Practices
   A. For design velocities of less than 3.5 ft per sec seeding and mulching may be used for the establishment of the vegetation. It is recommended that when conditions permit temporary diversions or other means be used to prevent water from entering the diversion during the establishment of the vegetation
   B. For design velocities of more than 3.5 ft per sec the diversion shall be stabilized with sod seeding protected by jute or excelsior matting or with seeding and mulching including temporary diversion of water until the vegetation is established. See the Standard and Specifications for Protective Materials

Standard Symbol DV

U.S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park MD	DIVERSION	GW-3

Maryland SCS/WRA — April 1983

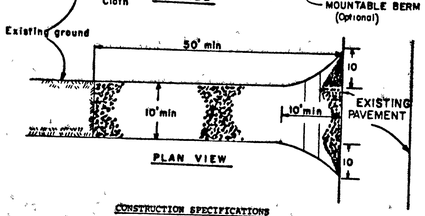
DETAIL FOR STABILIZING WATERWAYS WITH JUTE OR EXCELSION MATTINGS



63 05

STABILIZED CONSTRUCTION ENTRANCE
not to scale

STANDARD SYMBOL SCE

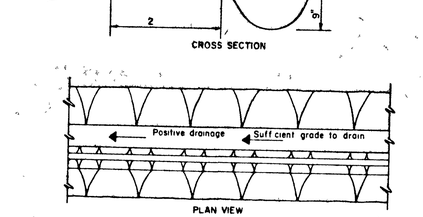


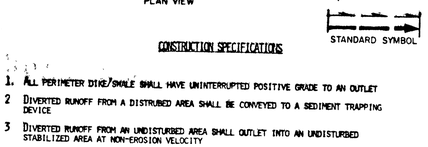
CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone or reclaimed or recycled concrete equivalent
2. Length - As required but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply)
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs
5. Filter Cloth - Will be placed over the entire area prior to placing of stone Filter will not be required on a single family residence lot
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance If piping is impractical, a mountable berm with 5:1 slopes will be permitted
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment All sediment spilled dropped, washed or tracked onto public rights-of-way must be removed immediately
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device
9. Periodic inspection and needed maintenance shall be provided after each rain

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1

PERIMETER DIKE/SWALE
not to scale





STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET
2. DIVERTED RUNOFF FROM A DISTRUBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SEED AND STRAW MULCH AND SHALL BE DONE WITHIN 10 DAYS
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

Max Drainage Area Limit 2 Acres

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	PERIMETER DIKE/SWALE	Standard Drawing PDS-1

☒ DENOTES WHEN APPLICABLE TO THIS PROJECT

SEDIMENT CONTROL NOTES

1. No grading can take place until the Grading Permit has been issued by the Permits and Inspections Department or where an approval letter has been received by the owner from the Carroll Soil Conservation District
2. Structural measures such as berms, dikes traps basins, etc will be installed and stabilized according to this plan prior to any other grading clearing or disturbance of the existing surface of the site See Required Sequence of Construction (Sheet 4 of 6)
3. On-site inspection and maintenance of all sediment control measures including clean-out of sediment traps and berms and proper establishment of all planned vegetative measures will be the responsibility of the Developer on the site on a continuing day to day basis
4. Sediment trapped behind sediment trapping facilities shall be removed as shown on plans (Sheet 4 of 6)
5. Appropriate sediment control measures to be installed prior to and in accordance with stages of related road and other construction according to the plan
6. On all diversion dikes positive flow will be established to sediment control structures from planned contributing runoff areas
7. Flow from all disturbed areas to be directed to a sediment control device as shown on approved plans until the area is fully stabilized
8. ☐ Parabolic grass waterways as shown on plans shall be adequately established in grass growth prior to release of Bond
9. ☐ Jute thatching to be applied to all parabolic waterways and secured using 8 gauge U shaped wire staples six (6) inches long
10. All temporary sediment control measures are to be removed and these areas stabilized prior to release of sediment control bond

STABILIZATION SPECIFICATIONS

Temporary: seeding dates March 1 to November 15

1. Loosen area by discing raking or other acceptable means
2. Fertilize using 10-20-10 or equivalent at 600 lbs/ac or 15 lbs/1000 s f Soils known to be highly acid should be limed
3. Seed using any one of the following
   Barley at 2 8 lbs/1000 s f or 122 lbs/ac or
   Oats at 2.2 lbs/1000 s f or 96 lbs/ac or
   Rye at 3 2 lbs/1000 s f or 140 lbs/ac
4. Mulch using unrotted small grain straw at 1½ -2 tons/ac or 70-90 lbs/1000 s f
5. Apply emulsified asphalt at 5 gals/1000 s.f or 218 gals/ac on flat areas or where slope is less than 8 high. On slopes higher than 8 or steeper than 3:1 apply emulsified asphalt at the rate of 8 gals/1000 s f. or 348 gals/ac

Permanent seeding dates 3/1 to 4-30 & 8-1 to 10-15

1. Loosen top of grade and lime at the rate of 4000 lbs/acre
2. Place topsoil 5" minimum depth
3. Fertilize using 10-10-10 at the rate of 1000 lbs/ac or 22 5 lbs/1000 s f
4. Seed using Kentucky -31 tall fescue at the rate of 60 lbs/acre or 1 38 lbs/1000 s.f During the period of April 1 to August 31 Weeping Lovegrass shall be added to the K-31 at the rate of 2 lbs/ac or 0 05 lbs/1000 s f.
5. Apply straw mulch and emulsified asphalt binder as specified above for temporary stabilization

Tracking note

On areas where the slope is 3 1 or steeper and the height is 5 or greater Contractor shall track the slope using cleated dozer prior to placing asphalt binder Dozer shall run up-and-down so that cleat marks are horizontal Where tracking is required it shall be done from existing grade level to finished grade level within the limits established by the 8 height criteria

Soil Conservation District Certification

The Development Plan is Approved For Soil Erosion And Sediment Control By The Carroll Soil Conservation District

Approved [signature] 9/26/86
Carroll SCD Date

Soil Conservation Service Certification

Reviewed for Carroll SCD
Name
and meets Technical Requirements
[signature] 9/25/86
Signature Date
U S Soil Conservation Service

SURVEYOR

I certify that this plan of Sediment Control is designed with my personal knowledge of the site conditions and has been designed to the Standards and Specifications adopted by the Carroll Soil Conservation District

[signature] Aug 5, 1986
Surveyor Date

DEVELOPER

I certify that this plan of Sediment Control will be implemented to the fullest extent and all structures will be installed to the design and specifications as spelled out in this plan and that any responsible personnel involved in construction project will have a certification 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 evaluation by the Carroll Soil Conservation District personnel and cooperating agencies

[signature] Aug. 7 86
Complete Date

"FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION (SPECIFIED ON PLANS) SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES SWALES DITCHES, PERIMITER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE"

SEDIMENT CONTROL FACILITIES FOR THIS PROJECT SHALL CONFORM TO "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL"

☒ DENOTES WHEN APPLICABLE TO THIS PROJECT

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. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF SEDIMENT CONTROLS.

SEDIMENT CONTROL DETAIL
LOT F-1
CARROLL COUNTY AIR BUSINESS CENTER

WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN PB 27, P 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD

KIDDE CONSULTANTS, INC.

DATE	REVISION	BY

SURVEYED BY
COMPUTED BY
DRAWN BY
CHECKED BY

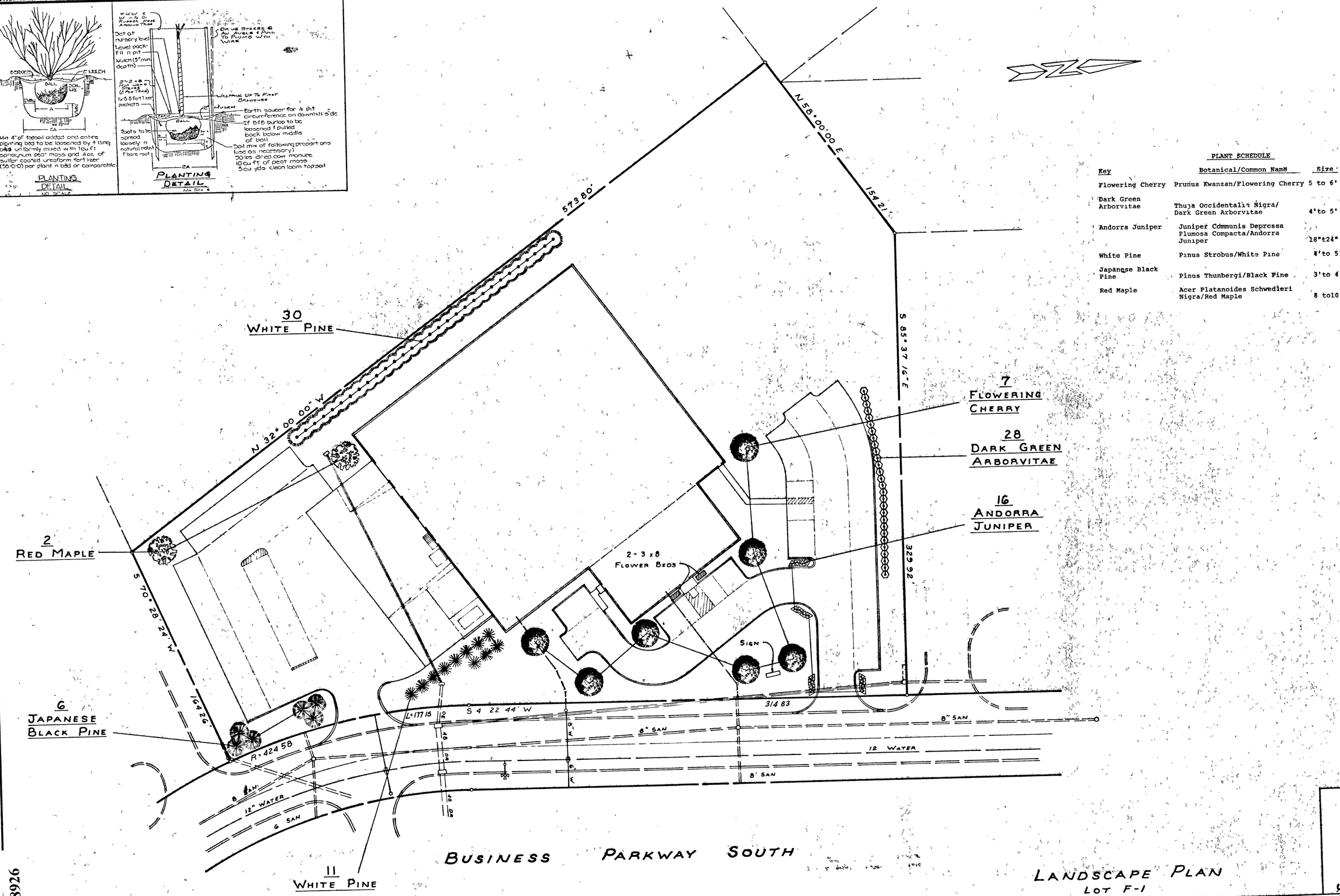
Drwg No 1586-210

ENGINEERS, LAND PLANNERS & SURVEYORS
439 E MAIN STREET / WESTMINSTER MARYLAND 21157
(301) 848-1790 / 876-2017

539 POPLAR STREET / CAMBRIDGE MD 21613 (301) 228-3350
1052 WEST STREET / LAUREL MD 20707 (301) 792-8066

DATE August 5, 1986 SCALE

#8925



PLANT SCHEDULE

Key	Botanical/Common Name	Size	Root	Quanity
Flowering Cherry	Prunus Kwanzan/Flowering Cherry	5 to 6'	B & B	7
Dark Green Arborvitae	Thuja Occidentalis Nigra/ Dark Green Arborvitae	4'to 5'	B & B	28
Andorra Juniper	Juniper Communis Depressa Plumosa Compacta/Andorra Juniper	18"t24"	B & B	16
White Pine	Pinus Strobus/White Pine	4'to 5'	B & B	41
Japanese Black Pine	Pinus Thunbergi/Black Pine	3'to 4'	B & B	6
Red Maple	Acer Platanoides Schwedleri Nigra/Red Maple	8 to10'	B & B	2

#8926

Drawn	DATE	REVISIONS
Check		
D.S.G.		
Ch. ck		

KIDDE CONSULTANTS, INC.
ENGINEERS • SURVEYORS PLANNERS
439 EAST MAIN STREET WESTMINSTER MARYLAND 21157 301 876 2017

LANDSCAPE PLAN
LOT F-1

CARROLL COUNTY AIR BUSINESS CENTER
WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN PB 27 P 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD

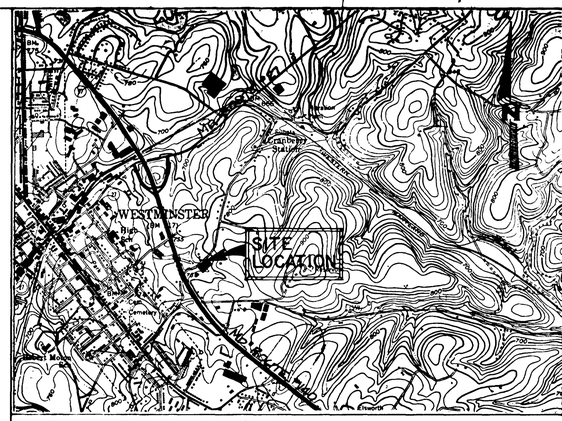
SHEET	DATE	NU
6 OF 6	August 5, 1986	158
	SCALE 1" = 30'	

STATE OF MARYLAND — GEORGE D. PILARSKI — NO. 7765 — REGISTERED PROFESSIONAL LAND SURVEYOR

GENERAL NOTES

1. ALL CONSTRUCTION ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE "GENERAL SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION", AND THE BOOK OF STANDARDS, HIGHWAY AND INCIDENTAL STRUCTURE "AND "HIGHWAY DRAINAGE MANUAL" OF THE MARYLAND STATE HIGHWAY ADMINISTRATION "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE, AND ALL ADDENDA AND ERRATA TO ANY AND ALL OF THE ABOVE.
2. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
3. CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 A MIN. OF (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE KIDDE CONSULTANTS, INC. AT (301) 848-1790 or (301) 876-2017 IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADES PRIOR TO BEGINNING WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON ANY EXISTING ROADS.
6. THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS THE FIGURED DIMENSION SHALL GOVERN.
7. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
8. THE CONTRACTORS ATTENTION IS SPECIFICALLY DIRECTED TO PAGE 16, SECT. 12:00 "GENERAL" UNDER THE SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION" ITEM 12:01 and 12:02 ARE HEREBY MADE A PART OF THE CONTRACT.
9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES AT LEAST 72 HOURS BEFORE STARTING ANY CONSTRUCTION:
   BALTIMORE GAS & ELECTRIC CO.....234-3691
   C & P TELEPHONE CO.....593-9977
   MISS UTILITY-CALL.....1-800-257-7777
11. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENT CONTROL BARRIERS IN FORM OF STRAW BALE DIKES ALONG THE COURSE OF HIS CONSTRUCTION. THE THE DIKES SHALL BE PLACED IN ACCORDANCE WITH THE "1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
12. ALL PACING DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED IN ACCORDANCE WITH COUNTY ROADS DETAILS.
13. ALL STORM DRAINAGE CULVERTS LOCATED AT OR NEAR EXISTING SWALES ARE INTENDED TO BE IN THE SWALES UNLESS OTHERWISE NOTED.
14. ALL RIP-RAP SPECIFIED SHALL BE LOOSE LAID STONE. RIP-RAP PLACED AT STORM DRAIN OUTFALLS IN EXISTING SWALES SHALL BE PLACED SO AS TO COMPLETELY LINE THE EXISTING SWALE WITH ONLY THE MINIMUM POSSIBLE GRADING OR SHAPING OF THE SWALE.
15. INLET GRATES IN SUMPS SHALL BE CONSTRUCTED LEVEL AT THE ELEVATION GIVEN IN THE STRUCTURE SCHEDULE. INLETS ON GRADE SHALL BE ADJUSTED SO THAT THE GRADE OF THE GRATE MATCHES THE FINISHED FLOW LINE OF THE CURB. TOP ELEV. SHALL BE THE TOP OF INLET GRATE AT THE INTERSECTION OF THE CENTERLINE OF INLET AND FLOW LINE AT BASE OF CURB.
16. STORM DRAIN PIPE FOR THIS PROJECT SHALL BE REINFORCED CONCRETE PIPE, CLASS IV NOTED RCP UNLESS OTHERWISE NOTED ON PLANS.
17. ALL CURB FILLET RADII SHALL BE 25' UNLESS OTHERWISE NOTED.
18. ALL RIP-RAP FOR THIS PROJECT SHALL BE SIZED IN ACCORDANCE WITH MARYLAND SCS/W.R.A. STANDARDS AND SPECIFICATIONS FOR ROCK OUTLET PROTECTION.

SITE DEVELOPMENT PLAN
McSHEA BUILDING
PROPOSED CHAIN
AFFILIATED HOTEL



VICINITY MAP SCALE: 1"=2000'

REVISIONS

NO	DATE	REVISION	BY
	AUG. 6, 1986	REVISED S.W.M. PER COUNTY COM.	L.G.O.
	Aug. 13, 1986	CHANGE TO TANK IN LIEU OF INFILTRATION FACILITY REVISE NOTE #6 OF "REQUIRED SEQUENCE OF CONSTR." (DWG. #3) FOR INCLUSION OF SWM "TANK" DESIGN. CHANGE : PIPE FROM I-5 TO FG1 TO BE 24"RCP CL.IV IN LIEU OF 24"CMP. SHEETS NOS. 2,3,5 & 9	RAC RAC RAC

OWNER DEVELOPER

OWNER
WESTMINSTER NURSERIES, Inc.
P.O. BOX 227
WESTMINSTER, MD. 21157

DEVELOPER
McSHEA & COMPANY, Inc.
4733 BETHESDA AVENUE
SUITE 560
BETHESDA, MD 20814
PHONE (301) 986-1277

KIDDE CONSULTANTS, INC.
CONSULTING ENGINEERS AND SURVEYORS
439 EAST MAIN STREET
WESTMINSTER, MARYLAND 21157
(301) 848-1790 / 876-2017

LIST OF DRAWINGS

1. TITLE SHEET
2. SITE GRADING PLAN
3. SEDIMENT & EROSION CONTROL PLAN
4. PAVING, DIMENSION AND PARKING LAYOUT
5. STORM WATER MANAGEMENT & STORM DRAIN PLAN
6. DRAINAGE AREA MAP
7. UTILITY PLAN
8. LANDSCAPE PLAN
9. STORM DRAIN TABULATION & STORM DRAIN PROFILES
10. SANITARY SEWER AND WATER MAIN PROFILES
11. SANITARY SEWER DETAILS
12. WATER DETAILS
13. SEDIMENT & EROSION CONTROL DETAILS

Soil Conservation Service Certification
Reviewed for Carroll S.C.D.
Name
and meets Technical Requirements
John H. Sanderson 8/25/86
Signature
U.S. Soil Conservation Service

Soil Conservation District Certification
This Development Plan is Approved For Soil Erosion And Sediment Control By The Carroll Soil Conservation District
Approved Mark E. Shuff 8/25/86
Carroll SCD Date

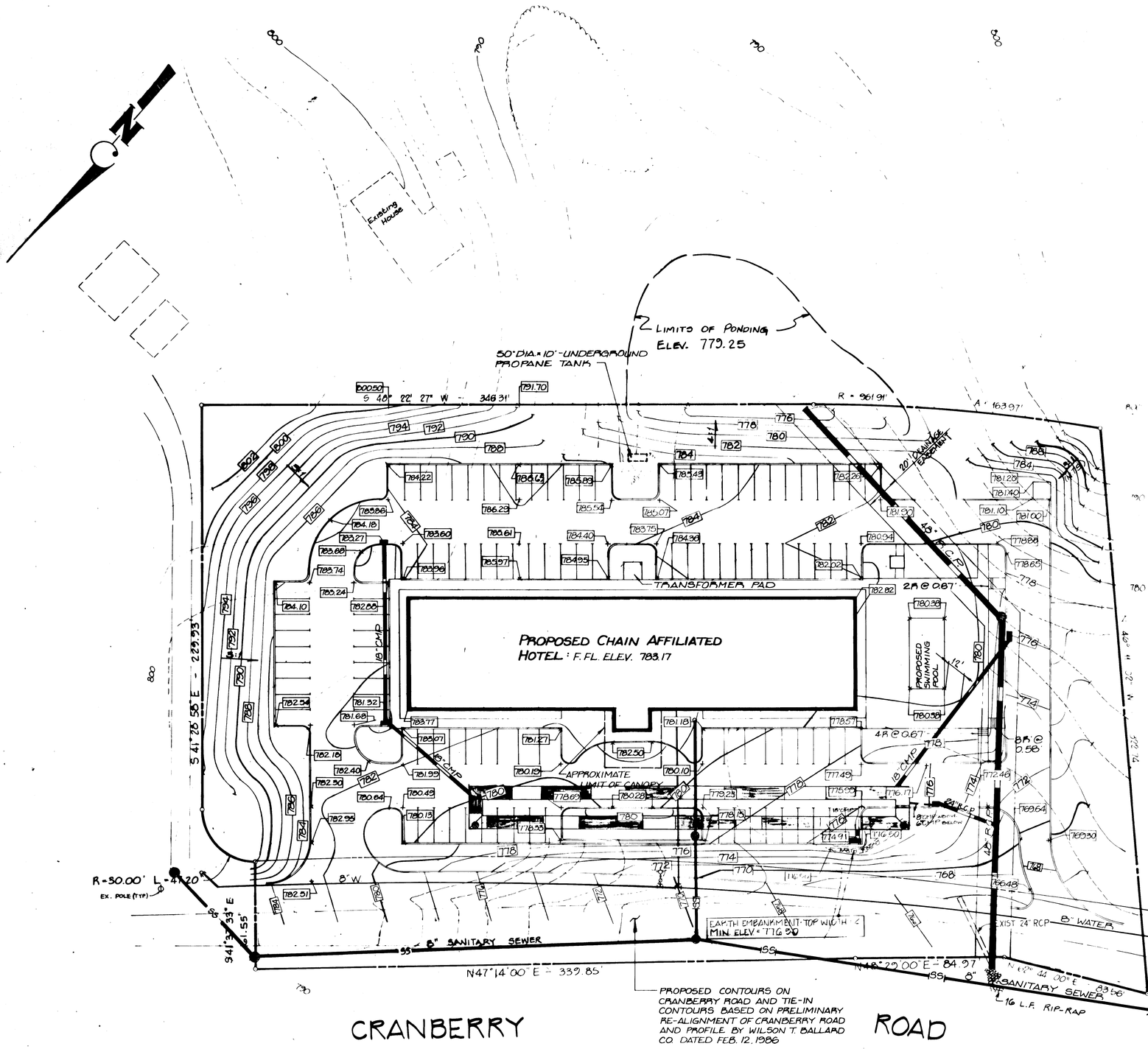
CITY OF WESTMINSTER

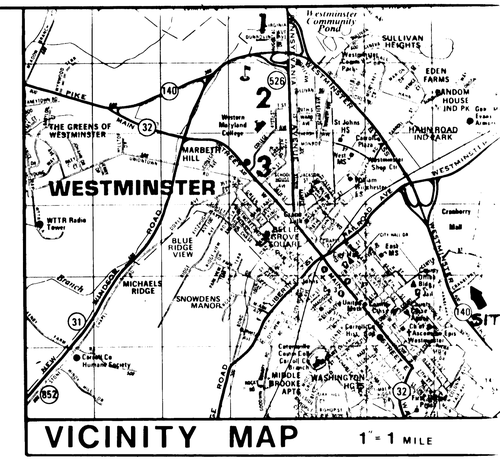
Approved by:
Mayor
8-26-86
Date

Approved by
Carroll R. Dell
Director of Public Works
8-25-86
Date

#2687

3.8.3





SITE DATA

TAX MAP	46
PARCEL	9
ELECTION DISTRICT	7
EXISTING ZONING	"BUSINESS"
SITE AREA	3.7533 ACRES
AREA OF DEDICATION FOR CRANBERRY ROAD	0.6426 ACRES±
NET AREA OF SITE	3.1107 ACRES±
PROPOSED BUILDING USE	HOTEL (NO RESTAURANT OR LOUNGE)
PROPOSED NUMBER OF ROOMS	102
REQUIRED PARKING (1 SPACE/ROOM)	102
PROVIDED PARKING	110
MAXIMUM BUILDING HEIGHT	3 STORIES - 40'
SANITARY SEWER	PUBLIC
WATER	PUBLIC

SITE GRADING PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL

SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 46 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

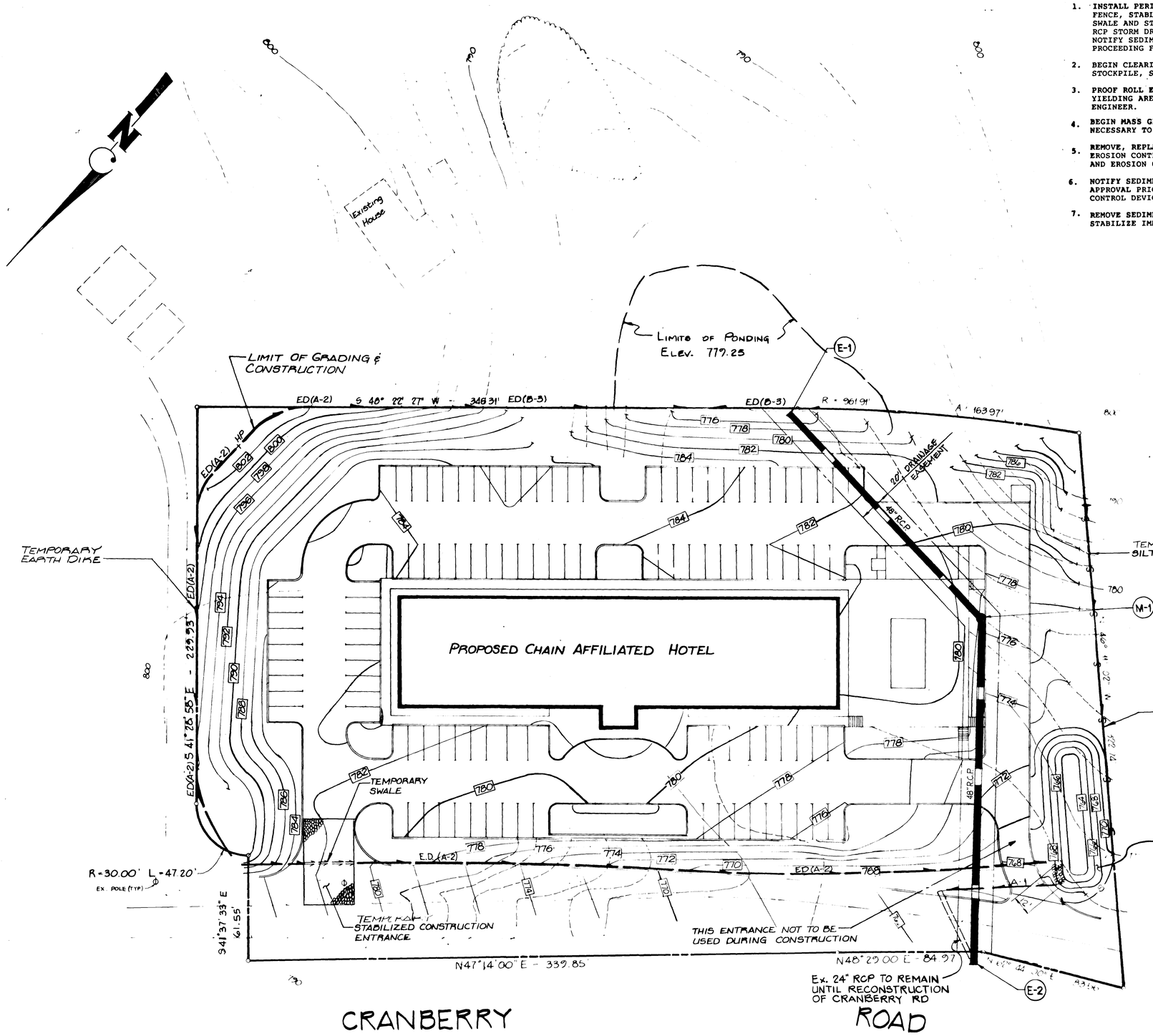
Drafting L.G.D.	DATE	REVISIONS
Check	6/5	REVISED PER CITY COM.
Design	8/6	REV. SWM PER COUNTY COM.
Check		

KIDDE CONSULTANTS, INC.
ENGINEERS ● ARCHITECTS ● PLANNERS

SHEET 2 OF 13 | APRIL, 1986 | SCALE 1"=30' | 1585

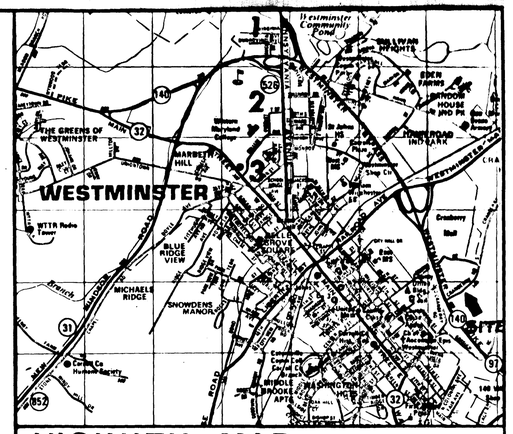
#2688

3.B.3



REQUIRED SEQUENCE OF CONSTRUCTION (FOR MASS GRADING ONLY)

1. INSTALL PERIMETER CONTROLS: (i.e. EARTH DIKE, SILT FENCE, STABLIZED CONSTRUCTION ENTRANCE, TEMPORARY SWALE AND STONE OUTLET SEDIMENT TRAP). INSTALL 48" RCP STORM DRAIN FROM E-1 TO E-2 WITH RIP-RAP OUTFALL. NOTIFY SEDIMENT CONTROL INSPECTOR FOR APPROVAL BEFORE PROCEEDING FURTHER.
2. BEGIN CLEARING AND GRUBBING. STRIP TOPSOIL AND STOCKPILE, STABILIZE IMMEDIATELY.
3. PROOF ROLL EXPOSED SUBGRADE, UNDERCUT SOFT OR YIELDING AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. BEGIN MASS GRADING AND CONTROLLED COMPACTION AS NECESSARY TO REACH FINISHED SUBGRADE.
5. REMOVE, REPLACE OR INSTALL ADDITIONAL SEDIMENT AND EROSION CONTROL DEVICES AS REQUIRED BY THE SEDIMENT AND EROSION CONTROL INSPECTOR.
6. NOTIFY SEDIMENT AND EROSION CONTROL INSPECTOR FOR APPROVAL PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROL DEVICES.
7. REMOVE SEDIMENT AND EROSION CONTROL DEVISES AND STABILIZE IMMEDIATELY.



REQUIRED SEQUENCE OF CONSTRUCTION (FOR BUILDING CONSTRUCTION)

1. INSTALL PERIMETER CONTROLS: (i.e. EARTH DIKE, SILT FENCE, STABLIZED CONSTRUCTION ENTRANCE, TEMPORARY SWALE AND STONE OUTLET SEDIMENT TRAP). INSTALL 48" RCP STORM DRAIN FROM E-1 TO E-2 WITH RIP-RAP OUTFALL. NOTIFY SEDIMENT CONTROL INSPECTOR FOR APPROVAL BEFORE PROCEEDING FURTHER.
2. BEGIN CLEARING AND GRUBBING. STRIP TOPSOIL AND STOCKPILE, STABILIZE IMMEDIATELY.
3. PROOF ROLL EXPOSED SUBGRADE, UNDERCUT SOFT OR YIELDING AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. BEGIN GRADING OF TRENCH FOR STORM WATER MANAGEMENT TANK. CONTACT OFFICE OF KIDDE CONSULTANTS, INC. (876-2017) FOR INSPECTION OF PIPE BEDDING AND CERTIFICATION OF PIPE SIZE, LENGTH, GAUGE, TYPE, BANDS AND PREFABRICATED JOINTS. SEE CONSTRUCTION SPECIFICATIONS ON SHEET #9. PIPE INSTALLATION, BACKFILLING MATERIAL AND PROCEDURES AND CUT-IN JOINTS SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE OF OWNER OR REPRESENTATIVE PRIOR TO COVERING OF PIPE.
5. BEGIN MASS GRADING AND CONTROLLED COMPACTION AS NECESSARY TO REACH FINISHED SUBGRADE.
6. REMOVE, REPLACE OR INSTALL ADDITIONAL SEDIMENT AND EROSION CONTROL DEVICES AS REQUIRED BY THE SEDIMENT AND EROSION CONTROL INSPECTOR.
7. BEGIN BUILDING CONSTRUCTION, SANITARY SEWER AND WATER EXTENSIONS, AND STORM DRAIN SYSTEMS (BLOCK INLETS).
8. COMPLETE BUILDING CONSTRUCTION, SANITARY SEWER AND WATER EXTENSIONS (WITH CONNECTIONS).
9. COMPLETE FINAL GRADING AND PAVING (STABILIZE IMMEDIATELY).
10. NOTIFY SEDIMENT AND EROSION CONTROL INSPECTOR FOR APPROVAL PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROL DEVICES.
11. REMOVE SEDIMENT AND EROSION CONTROL DEVISES AND STABILIZE IMMEDIATELY.

SEDIMENT & EROSION CONTROL PLAN

FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 48 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

DUST CONTROL SCHEDULE

MAY-OCTOBER - ALL GRADED AREAS NOT BEING IMMEDIATELY STABILIZED AS NOTED IN THE "REQUIRED SEQUENCE OF CONSTRUCTION" SHALL BE WATERED ON A CONTINUING BASIS AS NECESSARY TO PROVIDE FOR DUST PROOFING. CONTRACTOR SHALL PROVIDE TANK TRUCK WITH SPRAY BAR ON SITE AT ANY TIME THE DISTURBED AREA EXCEEDS THREE (3) ACRES.

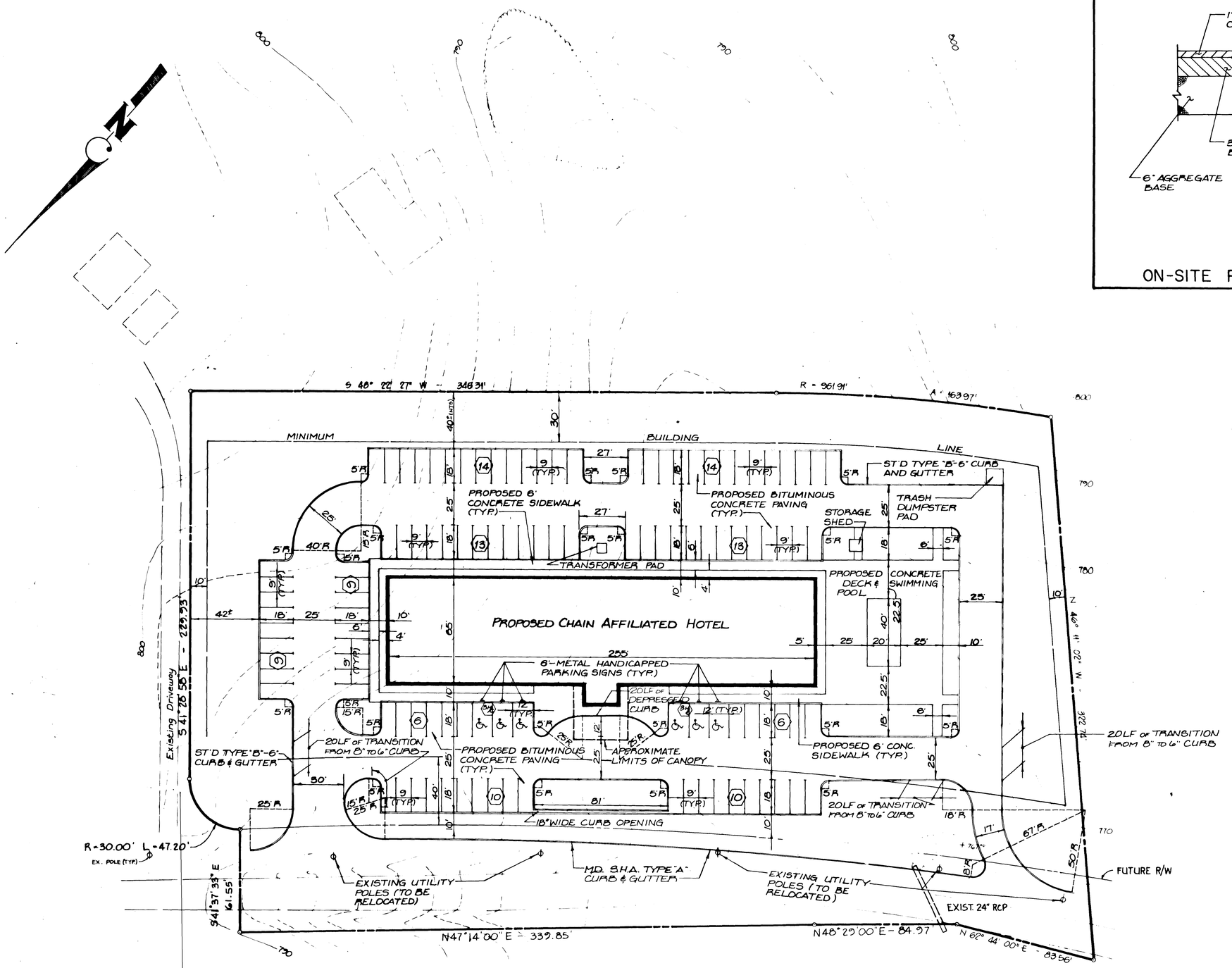
DRAWN	DATE	REVISION
CHECKED	8/0	REV. SWM PER COUNTY COM.
DESIGN		
CHECKED		

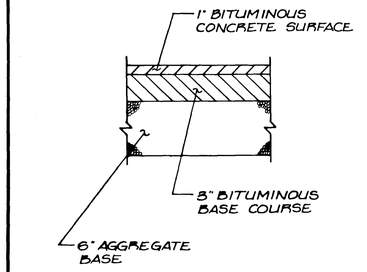
KIDDE CONSULTANTS, INC.
ENGINEERS ● ARCHITECTS ● PLANNERS

SHEET	DATE	JOB NUMBER
3 OF 13	APRIL, 1986 · SCALE 1"=30'	1585237

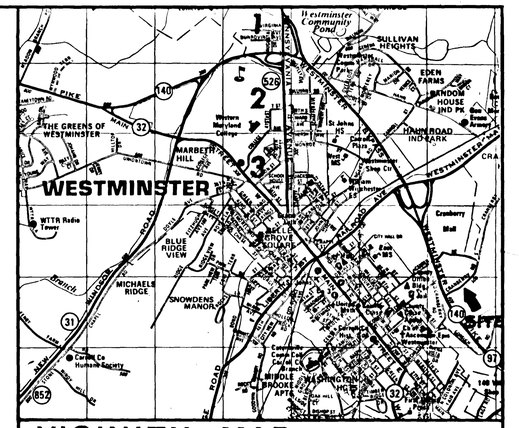
3.B.3

#2689

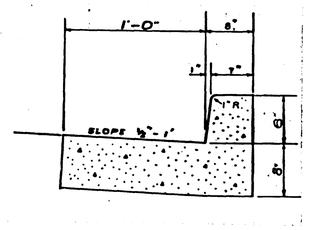




ON-SITE PAVING (NTS)



VICINITY MAP 1" = 1 MILE



TYPE "B"

CURB & GUTTER (NTS)

CURB & GUTTER

PAVING, DIMENSION AND PARKING LAYOUT PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL
SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 48 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

3.13.3

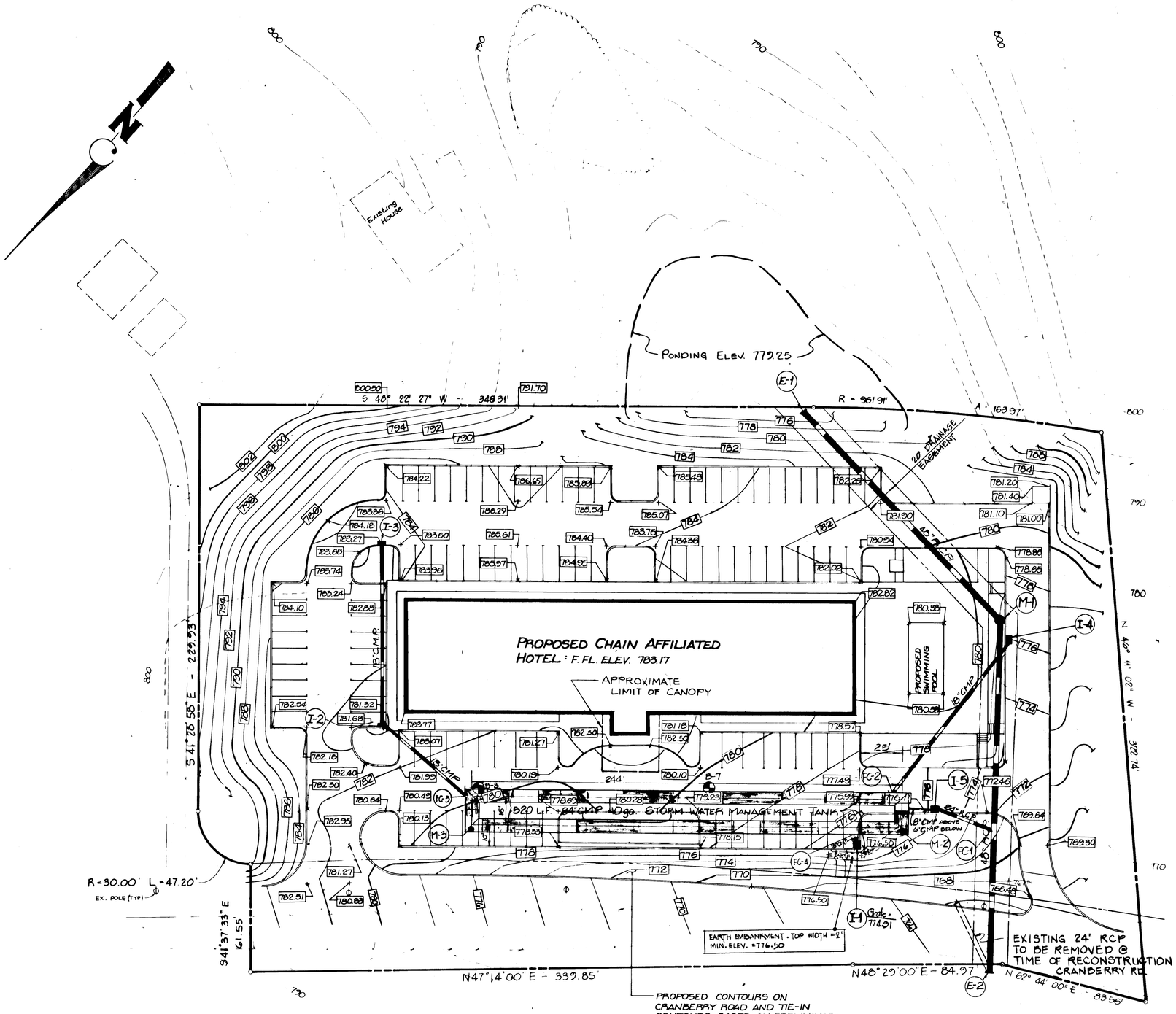
#2690

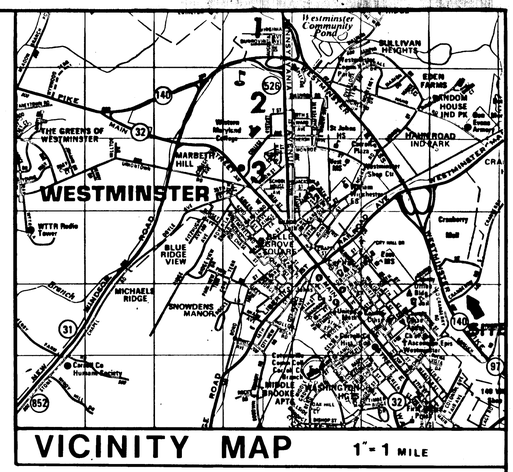
Drafting L.G.O.	DATE	REVISIONS
Check	8/6	REV. S.W.M. REP. COUNTY COM.
Design		
Check		

KEUFFEL & ESSER 8-5786

KIDDE CONSULTANTS, INC.
ENGINEERS • ARCHITECTS • PLANNERS

SHEET	DATE	JOB NUMBER
4 OF 19	APRIL, 1986	85257
	SCALE 1"=30'	





STORM WATER MANAGEMENT
FACILITY MAINTENANCE SCHEDULE

1. **THE STORM WATER MANAGEMENT FACILITY SHOWN ON THESE PLANS SHALL BE CONSTRUCTED AND MAINTAINED BY THE OWNER.**

2. OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR CONTINUING MAINTENANCE OF THE FACILITY WHICH SHALL INCLUDE SUCH ITEMS AS MOWING, CLEANING AND REMOVING OF SEDIMENT AND/OR DEBRIS. THE TIME PERIOD FOR THIS CONTINUING MAINTENANCE SHALL BE ON AN "AS-NEEDED" BASIS BUT SHALL NOT BE DELAYED LONGER THAN 30 DAYS.

3. OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR REPARATION OF ANY STRUCTURAL DAMAGES OR FAILURE WHICH MAY OCCUR AS A RESULT OF NEGLIGENCE, ACCIDENT OR MISUSE. IN THE EVENT OF STRUCTURAL DAMAGE, OWNER SHALL BE RESPONSIBLE TO MAKE THE NECESSARY REPAIRS AS QUICKLY AS POSSIBLE BUT IN ANY CASE WITHIN 60 DAYS.

4. OWNER SHALL GRANT RIGHT OF ENTRY TO AUTHORIZED COUNTY PERSONNEL FOR PURPOSES OF INSPECTION AND/OR MONITORING. SITE VISITS FOR INSPECTION AND/OR MONITORING SHALL BE CONDUCTED ONLY DURING NORMAL COUNTY WORKING HOURS (8:00 A.M. TO 4:00 P.M. MONDAY-FRIDAY).

STORM WATER MANAGEMENT & STORM DRAIN PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL

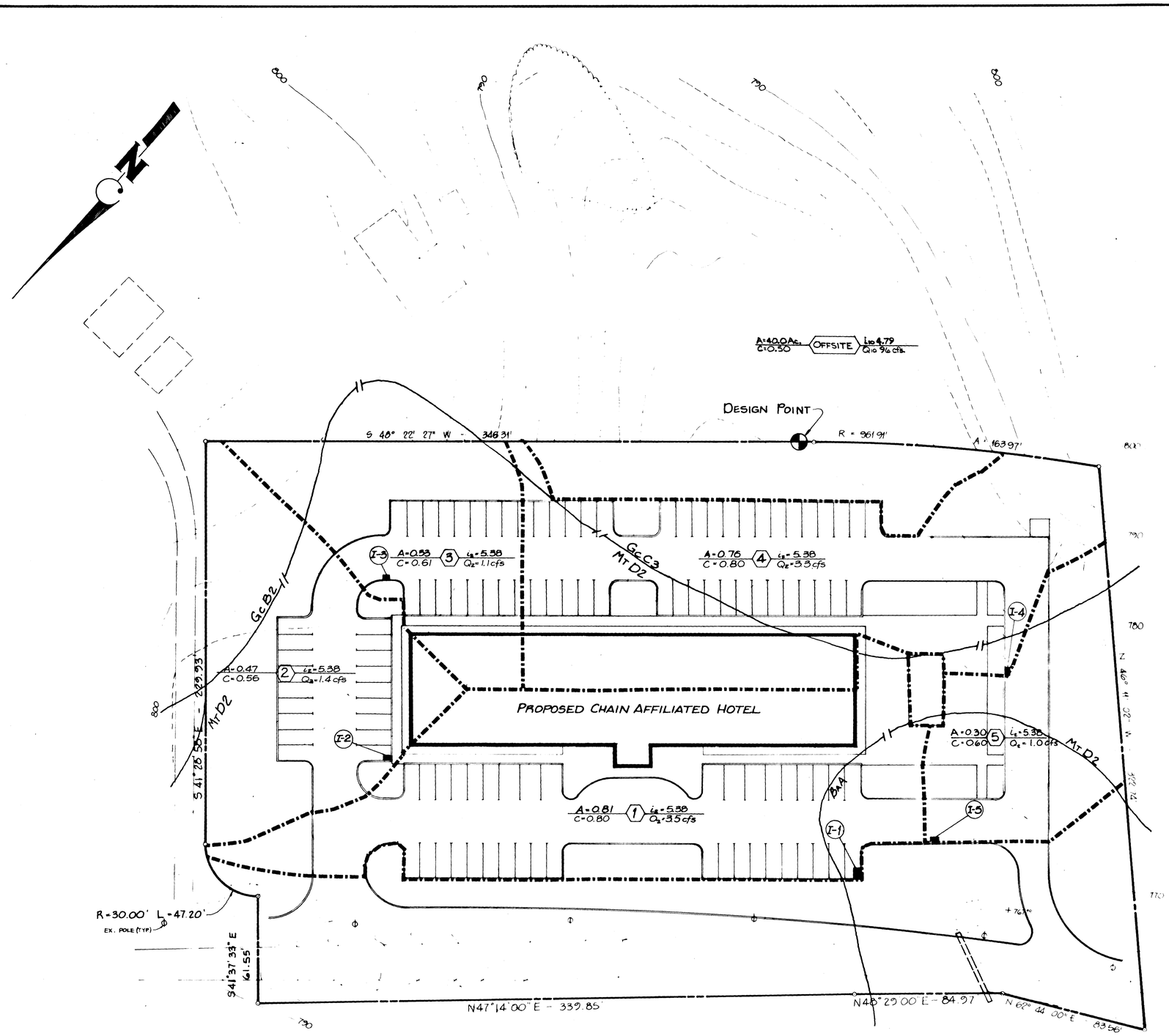
SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 48 - BLOCK 2 - PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND.

Drafting LGD	DATE	REVISIONS	KIDDE CONSULTANTS, INC.			SHEET 5 OF 19	DATE APRIL, 1986 SCALE 1"=30'	JOB NUMBER 1585257
Check	07-23-86	Revised Size of stone trench per Cty. comit.	ENGINEERS • ARCHITECTS • PLANNERS					
Design	8/6/86	Rev. SWM per County Com.						
Check								

KEUFFEL & ESSER B-5786

#2691

3.B.3



DRAINAGE AREA TO DESIGN POINT = 40 ACRES

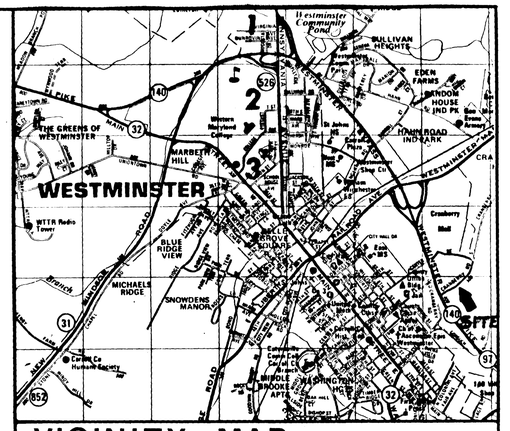
C = 0.50

T_c = 17 MIN.

L_{10} = 4.79

Q_{10} = 96 CFS

SCALE: 1" = 200'



VICINITY MAP 1" = 1 MILE

DRAINAGE AREA MAP

FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

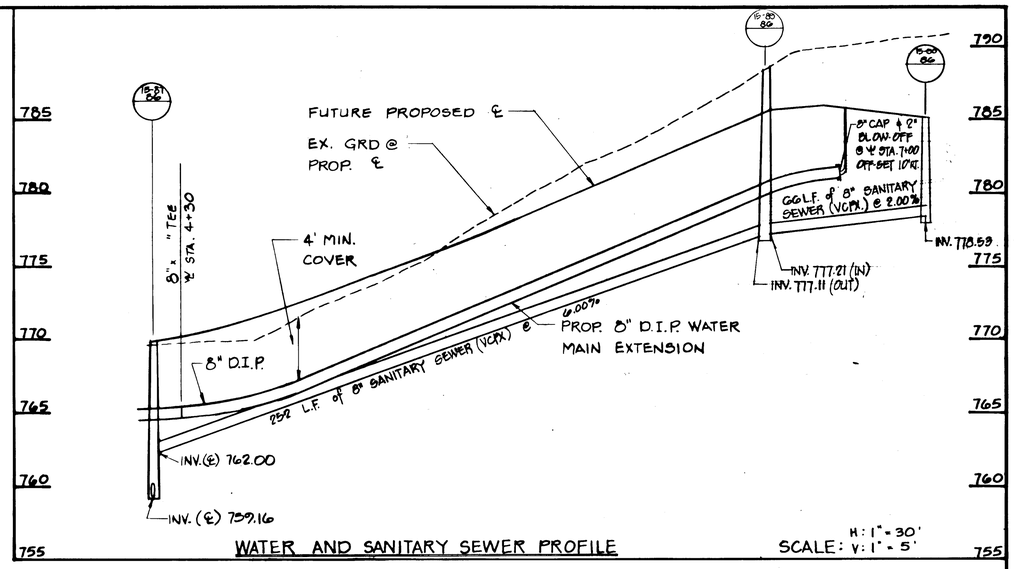
SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 48 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

Drafting	DATE	REVISIONS	KIDDE CONSULTANTS, INC.				SHEET	DATE	JOB NUMBER
Check	8-06-86	REV. SWM PER COUNTY COM.	ENGINEERS ● ARCHITECTS ● PLANNERS				6 OF 19	APRIL, 1986	1585237
Design								SCALE 1"=30'	
Check									

#2692

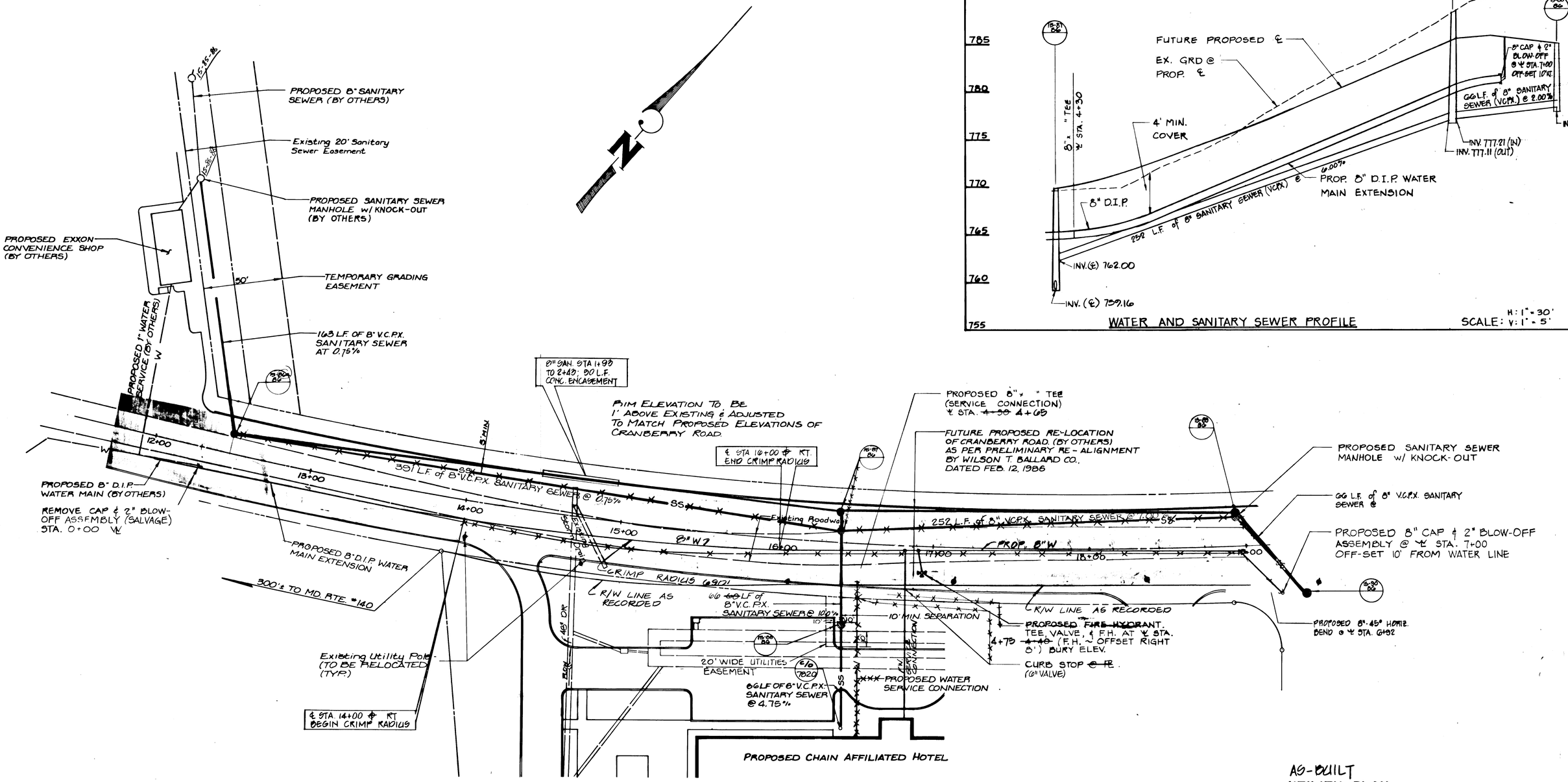
KEUFFEL & ESSER 81-5786

3-B-3



WATER AND SANITARY SEWER PROFILE

SCALE:



UTILITY PLAN

AS-BUILT

UTILITY PLAN

FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX 46 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

NOTE:
AS-BUILT INFORMATION SUPPLY BY THE CITY OF WESTMINSTER

#2693

Drafting LGO	DATE	REVISIONS
Check	8-09-88	Revised S.W.M. per County Com.
Design	7/87	Added "As-Built" information per City cmts.
Check		

KIDDE CONSULTANTS, INC.
ENGINEERS ● ARCHITECTS ● PLANNERS

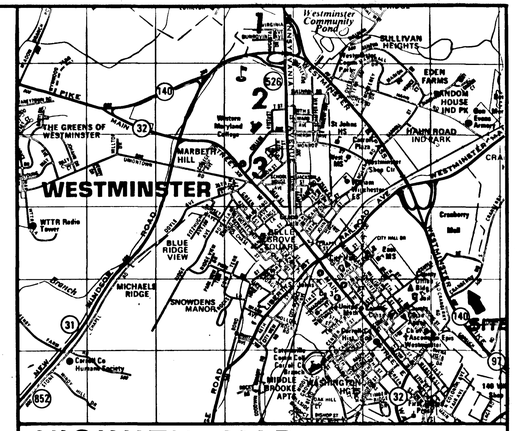
SHEET	DATE	JOB NUMBER
7 OF 13	APRIL 1986	1585237
	SCALE 1"=30'	

KEUFFEL & ESSER 8-5786

3-13-3

PLANT SCHEDULE

KEY	BOTANICAL/COMMON NAME	SIZE	ROOT	QUANTITY
ARBORVITAE	THUJA OCCIDENTALIS 'NIGRA'/ DARK AMERICAN ARBORVITAE	18"-24"	CONT.	30
AZALEA	AZALEA KURUME/HERSHEY RED	12"-15"	CONT.	10
BARBERRY	BERBERIS CANDIDULA/PALELEAF BARBERRY	18"-24"	CONT.	5
BARBERRY	BERBERIS JULIANAE/WINTERGREEN BARBERRY	18"-24"	B & B	4
CYPRESS	CUPRESSOCYPARIS LEYLANDII/LEYLAND CYPRESS	4'-5'	B & B	2
HOLLY	ILEX CRENATA 'COMPACTA'/COMPACT JAPANESE HOLLY	18"-24"	CONT.	32
JUNIPER	JUNIPERIS HORIZONTALIS 'WILTON'/ BLUE RUG CREEPING JUNIPER	18"-24"	CONT.	44
JUNIPER	JUNIPERIS CHINENSIS 'GLAUCA HETZII/ HETZ BLUE JUNIPER	24"-30"	B & B	20
JUNIPER	JUNIPERIS HORIZONTALIS (DEPRESSA)/ ANDORRA JUNIPER	18"-24"	CONT.	6
JUNIPER	JUNIPERIS COMMUNIS 'HIBERNICA'/ IRISH JUNIPER	3'-4'	B & B	10
JUNIPER	JUNIPERIUS PROCUMBENS 'NANA'/ DWARF JAPGARDEN JUNIPER	18"-24"	CONT.	5
PIN OAK	QUERCUS PALUSTRIS/PIN OAK	6'-8'	B & B	9
PINE	PINUS NIGRA/AUSTRIAN PINE	5'-6'	B & B	48
PINE	PINUS STROBUS/EASTERN WHITE PINE	5'-6'	B & B	7
PINE	PINUS MUGO/MUGHO PINE	15"-18"	CONT.	6
WINTERCREEPER	EUONYMOUS FORTUNEI 'VEGETUS'/ BIGLEAF WINTER CREEPER	18"-24"	CONT.	7



VICINITY MAP 1" = 1 MILE

35~AUSTRIAN PINE

4~PIN OAK

13~AUSTRIAN PINE

S 40° 22' 27" W - 346.31'

R = 961.91'

A = 163.97'

5~AZALEA

4~WINTERGREEN BARBERRY

5~PALELEAF BARBERRY

4~PIN OAK

7~WHITE PINE

4~IRISH JUNIPER

92~COMPACT JAPANESE HOLLY

90~DARK AMERICAN ARBORVITAE

S 41° 25' 55" E - 229.93'

6~ANDORRA JUNIPER

2~IRISH JUNIPER

5~AZALEA

4~IRISH JUNIPER

5~JAPGARDEN JUNIPER

1~PIN OAK

4~BIGLEAF WINTERCREEPER

3~BIGLEAF WINTERCREEPER

R = 30.00' L = 47.20'

EX. POLE (TYP)

2~LEYLAND CYPRESS

24~BLUE RUG JUNIPER

S 41° 37' 33" E 61.55'

N 47° 14' 00" E - 339.85

N 48° 29' 00" E - 84.97'

N 62° 44' 00" E 83.56'

3~MUGO PINE

20~HETZ BLUE JUNIPER

3~MUGO PINE

20~BLUE RUG JUNIPER

CRANBERRY ROAD

NOTE: THE LANDSCAPING SHOWN HEREON WILL NOT INTERFERE WITH THE PLACEMENT OF UTILITIES AS SHOWN ON SHEET 7 OF 13

LANDSCAPE PLAN
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL

SITUATE ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 48 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

#2694

Drafting	DATE	REVISIONS	KIDDE CONSULTANTS, INC.	SHEET 8 OF 13	DATE APRIL, 1986	JOB NUMBER
Check			ENGINEERS • ARCHITECTS • PLANNERS		SCALE 1"=30'	1585237
Design						
Check						

KEUFFEL & ESSER 8-5786

3.13.5

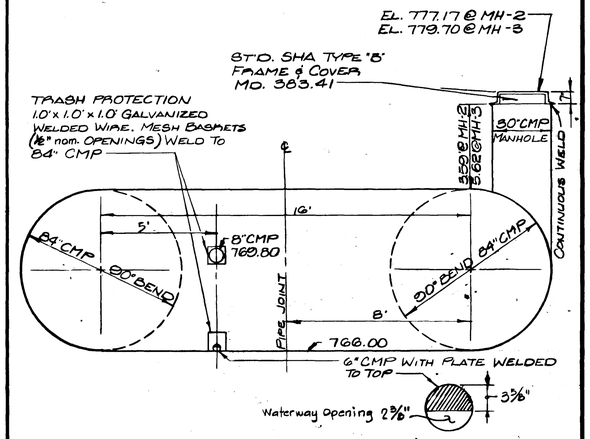
STORM DRAIN COMPUTATIONS

STRUCTURE #		CONTRIBUTING AREA				RUNOFF					INLET							PIPE											
FROM	TO	AREA NO.	A AREA (ACRES)	C RUNOFF COEF.	A CA	Σ CA	DESIGN STORM YEARS	TIME OF CONC. (MIN.)	RAINFALL INTENS. (IN/HR.)	Q QUANT. (CFS)	INLET NO.	REMARKS	Q + SURCH.	STREET SLOPE (%)	INLET TYPE	INLET CAPACITY (CFS)	SURCH. (CFS)	TO INLET #	D DIAM. (IN.)	TYPE	n MANNGS. COEF.	FRICTION SLOPE (%)	ACTUAL SLOPE (%)	FRICTION VELOC. (FPS)	ACTUAL VELOC (FPS)	HW/D	NORMAL DEPTH (FT.)	L LENGTH (FT.)	TIME IN PIPE (MIN.)	CAPAC. FULL (CFS)
-	I-3	3	.33	.61	.20		2	5.00	5.38	1.1	I-3	SINGLE WR	1.1	SUMP	WR	-	-	-											
I-3	I-2					.20	10	5.00	7.00	1.4									18	CMP	.024	.06	2.00	0.8	4.5	-	.42	103	.38	8.0
-	I-2	2	.47	.56	.26		2	5.00	5.38	1.4	I-2	SINGLE WR	1.4	SUMP	WR	-	-	-											
I-2	FC-3	DETENTION TANK			.46		10	5.00	7.00	3.2									18	CMP	.024	.52	11.44	1.8	10.0	-	.39	64	.11	19.0
-	I-4	4	.76	.80	.61		2	5.00	5.38	3.3	I-4	STD. WR	3.3	3.0	WR	2.6	.7	-											
I-4	FC-2	DETENTION TANK			.61		10	5.00	7.00	4.3									18	CMP	.024	.54	2.80	2.0	5.0	-	1.05	145	.8	9.5
-	I-1	1	.81	.80	.65		2	5.00	5.38	3.5	I-1	STD. WR		SUMP	WR	-	-	-											
I-1	FC-4	DETENTION TANK					10	5.00	7.00	4.6									18	CMP	.024	.64	16.70	2.5	12.0	-	.40	6	-	18.0
-	E-1	OFF SITE	40	.50	20.0																								
E-1	M-1						10	17.0	4.79	96									48	RCP	.013	.43	4.00	7.6	22	1.18	1.60	131	.1	295
M-1	E-2					20.0	10	17.0	4.79	96									48	RCP	.013	.43	1.40	7.6	14	-	2.2	197	.2	175
I-5	FC-1		1.97		1.72		25	5.00	8.00	13.8									24"	RCP	.013	.38	.96	4.3	6.8	-	1.2	76	.06	22

CONSTRUCTION SPECIFICATIONS FOR 84" CMP S.W.M. FACILITY

1. All joints shall have sleeve gasket. Bands shall be bar and strap or band angle type. All joints shall be watertight.
2. All cut-in connections shall be as close as practicable to top of 84" CMP and shall be waterproofed inside and out using a tar or similar mastic.
3. M-2, M-3, 90° bends and 6" connection shall be shop manufactured.
4. Std. manhole steps to be welded to pipe at each manhole.
5. All welds shall be waterproofed with two coats of rustproof paint.
6. Contractor shall be responsible to notify the office of Kidde Consultants, Inc. at the following times for inspection of construction.
   a) Upon receipt but prior to installation of any 84" pipe.
   b) Upon excavation of trench for inspection of pipe base.
   c) Upon completion of each cut-in operation for verification of waterproofing.
   d) Upon beginning backfilling.
7. Backfill shall be select borrow hand compacted in lifts not to exceed 8" (before compaction) to 95% (min.) density.

84" CMP shall be 12 ga. Aluminized with 5 x 1 corrugations.



SECTION THROUGH END OF TANK
LOOKING DOWNGRADE (NTS)

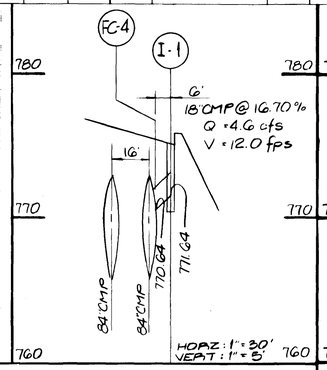
I hereby certify that the plans and specifications for the proposed storm water management pond was prepared by or under my supervision, and meets the minimum standards of the Carroll Soil Conservation District.

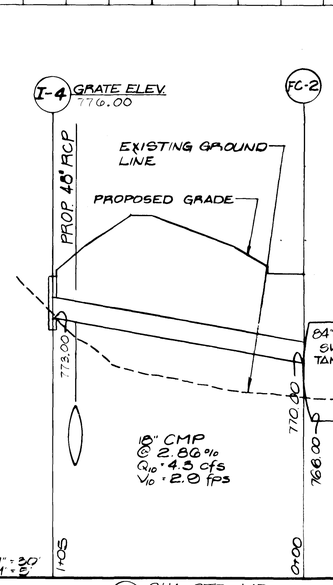
Professional Engineer R.L. Umbarger Date 6/13/86

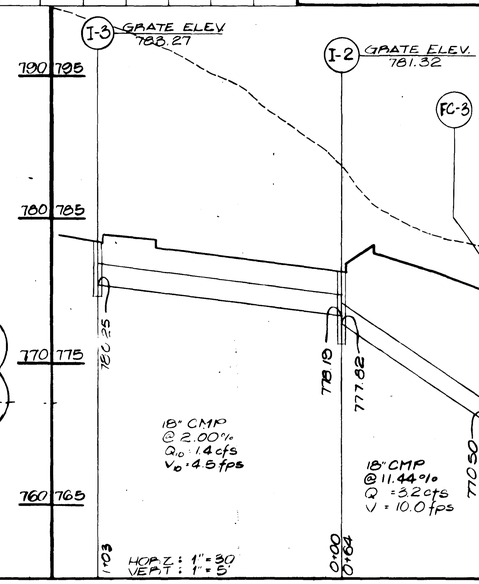
I certify that this storm water management facility will be constructed to the design and specifications as shown on this plan.

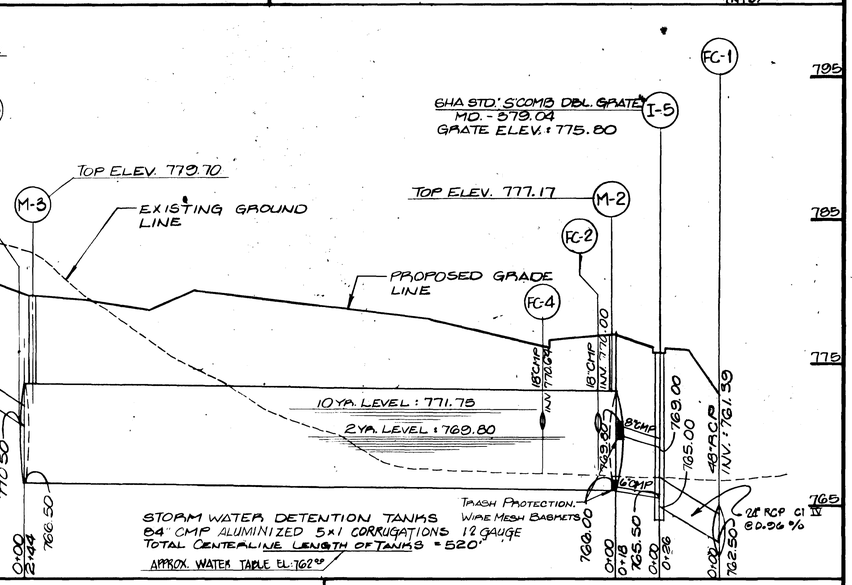
OWNER John F. McShea III DATE 6/13/86

Professional Engineer R.L. Umbarger Date 6/13/86



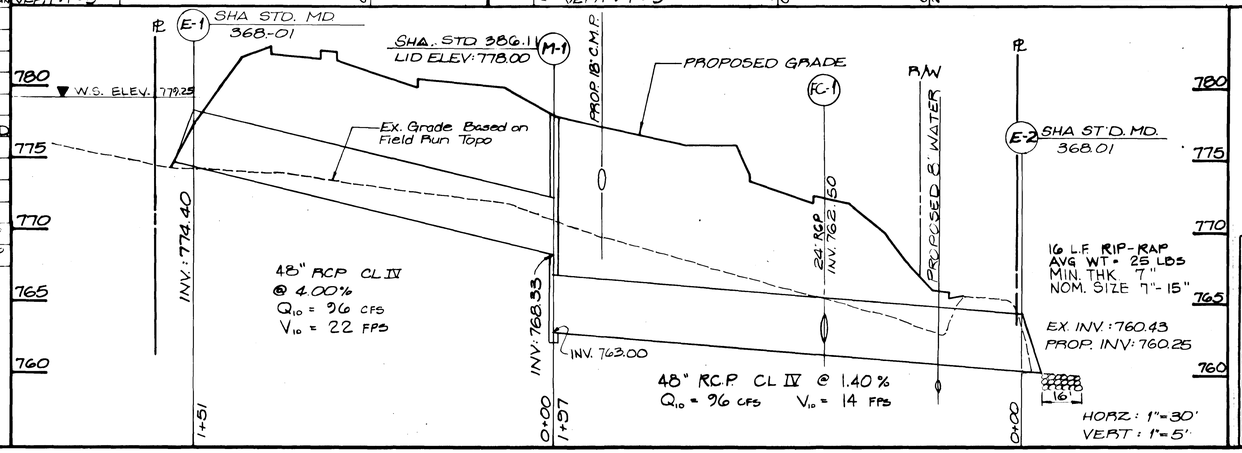






STORM STRUCTURE SCHEDULE

STRUCT. NUMBER	TYPE	INVERT IN ELEV.	INVERT OUT ELEV.	TOP ELEV.	℄ STA.	OFFSET	REMARKS
I-2	MD SHA 374.06	778.19	773.11	781.32			SINGLE WR
I-3	MD SHA 374.06	——	780.25	783.27			SINGLE WR
I-4	MD. 374.04	——	773.00	776.00			DOUBLE COMB. WR
I-1	MD 374.04	771.84	771.64	774.91			DOUBLE COMB. WR
E-1	MD 368.01	774.40	——				STD. CONC. END Sctn
E-2	MD 368.01	——	760.25				STD. CONC. END Sctn
M-1	MD 386.11	768.33	768.13	778.00			STD. Junction Box
I-5	MD. 379.04	765.50	765.00	775.80			Dbl. "S" COMB
	@CONTRACTOR MAY SUBSTITUTE PRECAST WR INLET MD.SHA STD. NO. 374.23 AT HIS OPTION						
	CONTRACTOR MAY SUBSTITUTE PRECAST WR INLET MD SHA STD No. 374.21 AT OPTION						
FC-1	FIELD CUT	762.50					CUT INTO 48" RCP
FC-2	FIELD CUT	770.00					CUT INTO 84" RCP
FC-3	FIELD CUT	770.50					CUT INTO 84 RCP
FC-4	FIELD CUT	770.64					CUT INTO 84" RCP



STORM DRAIN TABULATION & STORM DRAIN PROFILES
FOR
McSHEA BUILDING
PROPOSED CHAIN AFFILIATED HOTEL

9 of 13

KIDDE CONSULTANTS, INC.
ENGINEERS, LAND PLANNERS & SURVEYORS
111 JOHN STREET / WESTMINSTER, MARYLAND 21157
(301) 848-7780 / 876-2017
539 POPLAR STREET / CAMBRIDGE, MD 21613 (301) 228-3288
1952 WEST STREET / LAUREL, MD 20707 (301) 792-9088

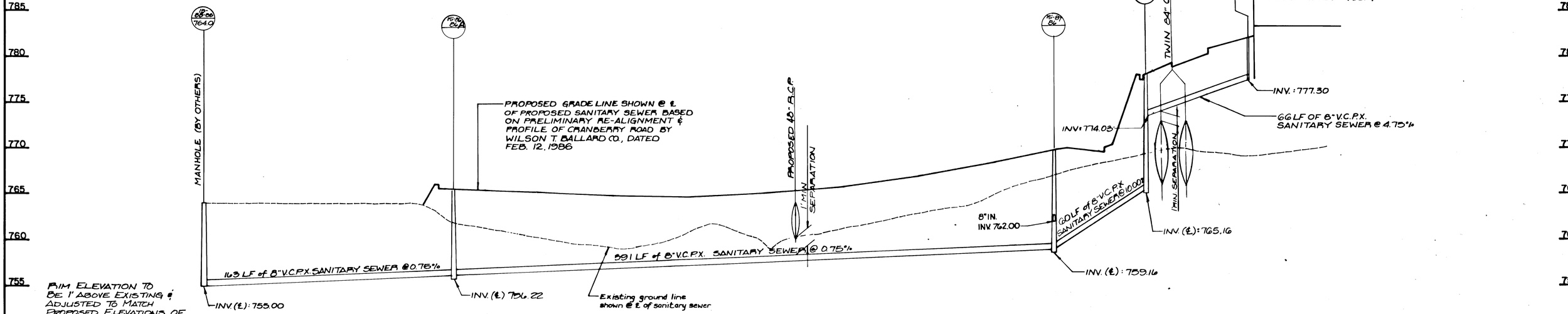
DATE	DIVISION	BY
07-23-86	Size of slope trench per City com't	GGB
8-06-86	Rev. SWM per County Com	LGD

SURVEYED BY
COMPUTED BY
DRAWN BY L.G.D.
CHECKED BY
Drwg. No.

DATE APRIL 1986 SCALE AS NOTED

#2695

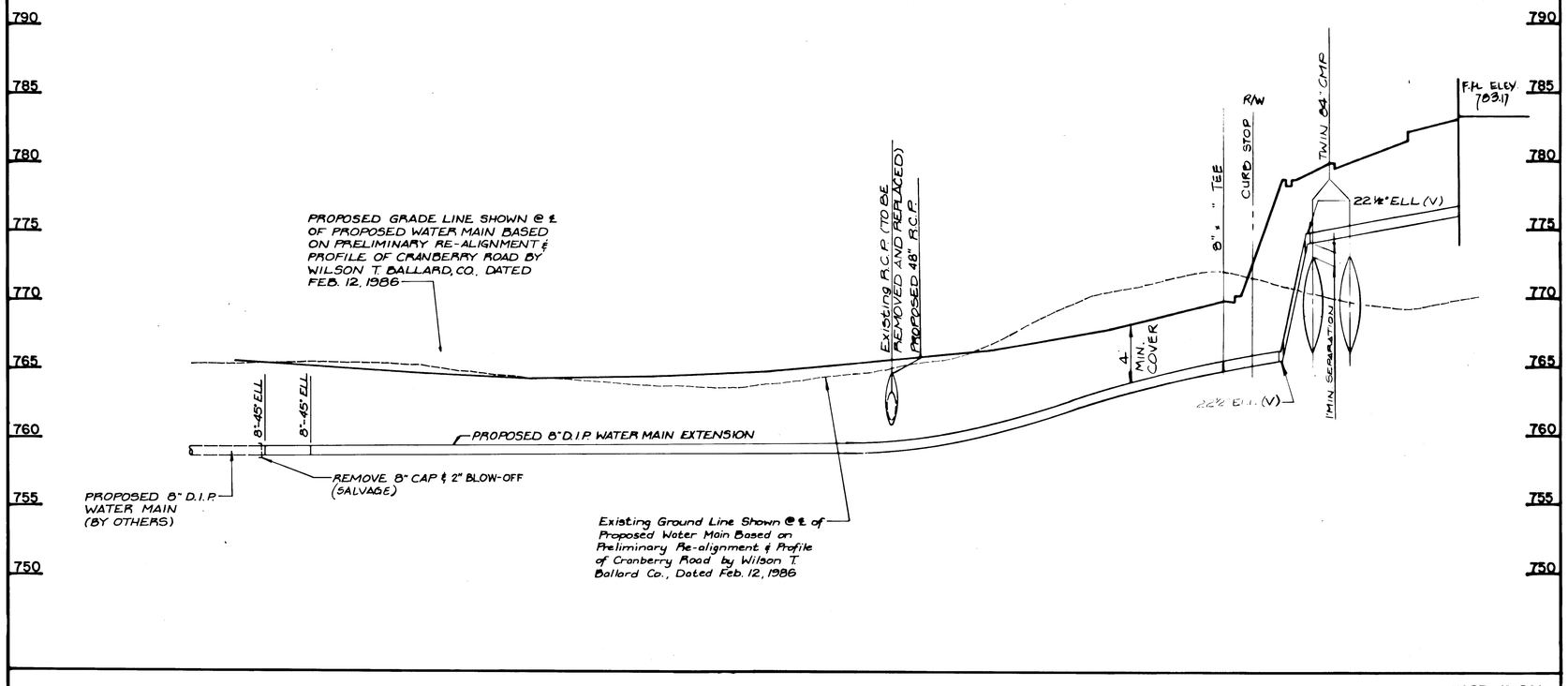
#1215 storm drain tab.



8'IM. ELEVATION TO BE 1' ABOVE EXISTING & ADJUSTED TO MATCH PROPOSED ELEVATIONS OF CRANBERRY ROAD.

SANITARY SEWER PROFILE

HORZ: 1"=30'
VERT: 1"=5'



WATER MAIN EXTENSION PROFILE

HORZ: 1"=30'
VERT: 1"=5'

SANITARY SEWER AND WATER MAIN PROFILES FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

SITUATED ALONG THE EAST SIDE OF CRANBERRY ROAD
TAX MAP 46 · BLOCK 2 · PARCEL 9
WESTMINSTER, CARROLL COUNTY, MARYLAND

Drafting L.G.D.	DATE	REVISIONS
Check	8-06-84	REV. S.W.M. REF. COUNTY COM.
Design		
Check		

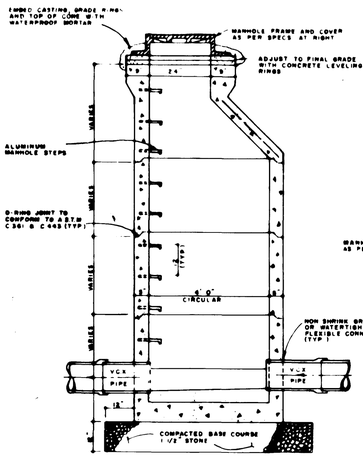
KIDDE CONSULTANTS, INC.
ENGINEERS ● ARCHITECTS ● PLANNERS

SHEET	DATE	JOB NUMBER
10 OF 12	APRIL 1986	1585237
	SCALE AS SHOWN	

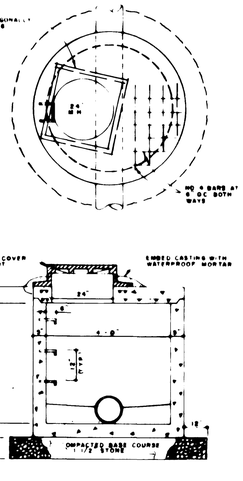
#2696

KEUFFEL & ESSER 8-5786

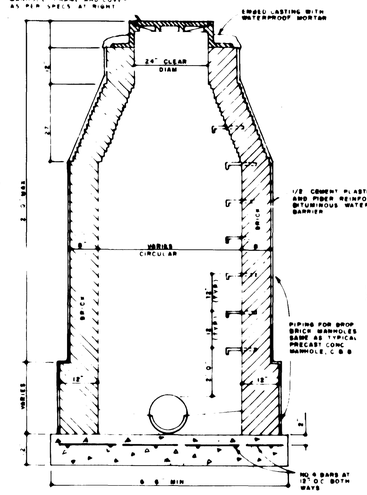
3.B.3



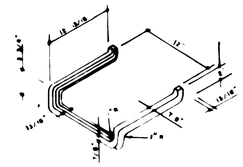
PRECAST CONCRETE MANHOLE TYPE 1
WITH "A" CONNECTION



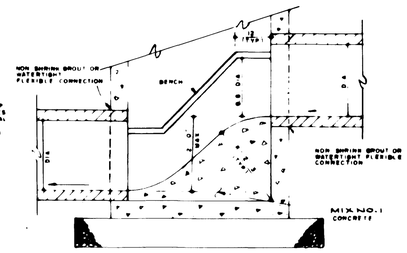
PRECAST CONCRETE MANHOLE TYPE 2



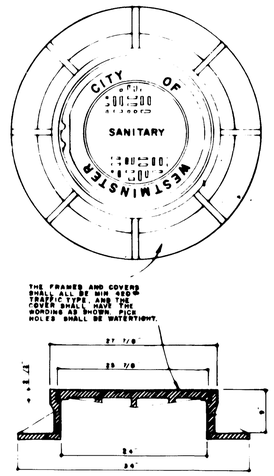
BRICK MANHOLE TYPE 3



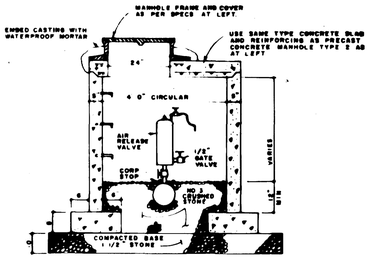
ALUMINUM MANHOLE STEP



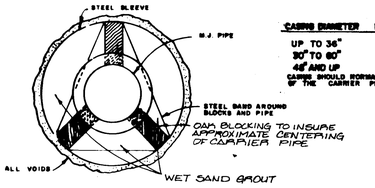
MANHOLE CHUTE



MANHOLE FRAME & COVER



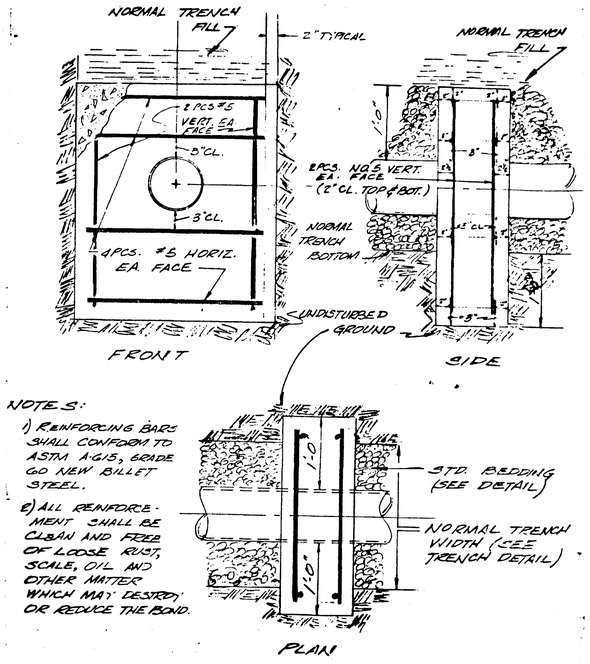
AIR RELEASE VALVE IN MANHOLE



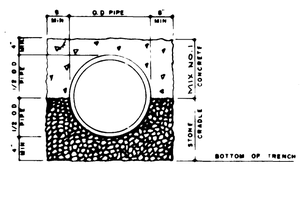
CASING DIAMETER	MAX LENGTH	INSTALLATION METHOD
UP TO 36"	175'	BORING
20" TO 60"	200'	JACKING
48" AND UP	NO MAX.	TUNNELING

CASING SHOULD NORMALLY BE 6" TO 8" LARGER THAN THE MAX. O.D. OF THE CARRIER PIPE BELLS.

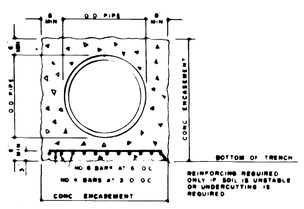
SLEEVE & CARRIER PIPE
INSTALLATION



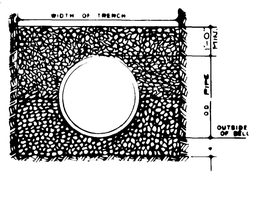
TYPICAL CONCRETE ANCHOR



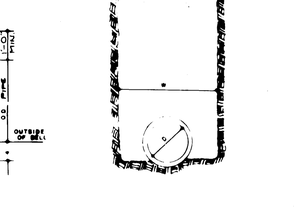
CONCRETE ARCH
PROTECTION



CONCRETE ENCASEMENT



STONE BEDDING
STANDARD INSTALLATION

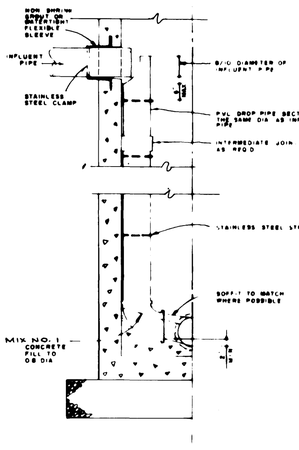


TRENCH WIDTH PER PIPE SIZES

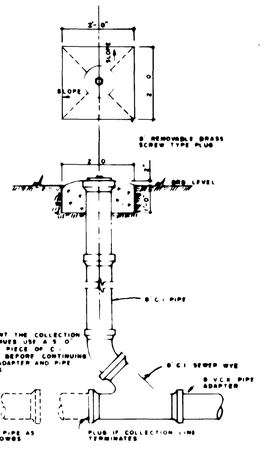
A MAXIMUM WIDTH FOR PAYMENT OF PAVEMENT RESTORATION

B CONTRACTOR IS RESPONSIBLE FOR PAVEMENT RESTORATION IN THIS AREA

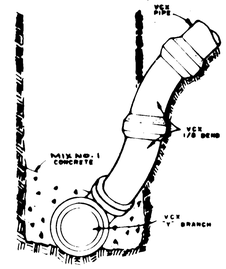
O.D. PIPE SIZE	W MAX TRENCH WIDTH
6	24
8	24
10"	30
12"	30
15	36
18	42
21	42
24	48
27	54
30	60
33	66
36	66
42	72
48	84



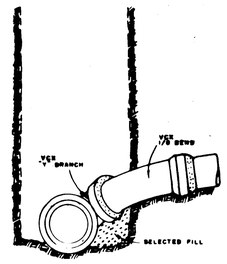
INSIDE
DROP CONNECTION



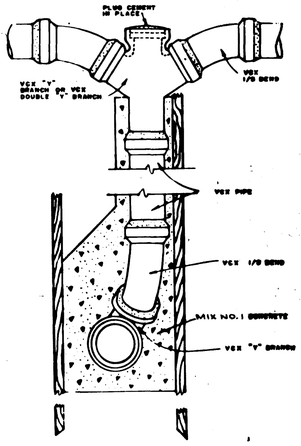
CLEANOUT DETAIL



TYPE "A"

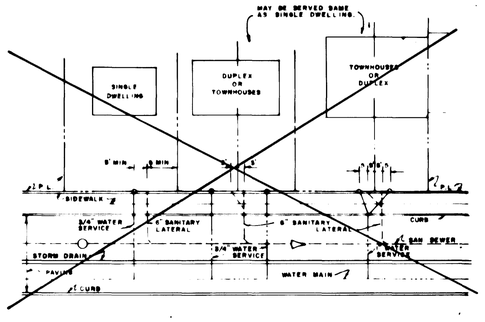


TYPE "B"



TYPE "C"

HOUSE CONNECTIONS



~~TYPICAL METHODS FOR SEWER SERVICE~~

GENERAL NOTES

MANHOLES

1. PRECAST CONCRETE MANHOLE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION C 478 LATEST REQUIREMENTS.
2. ON ALL SEWERS, THE FIRST JOINT OUTSIDE THE MANHOLE (BOTH INLET AND OUTLET) SHALL BE WITHIN 8" OF THE OUTSIDE FACE OF THE MANHOLE.
3. ALL INVERTS OF MANHOLES TO BE KEPT TO GRADE, WITH SMOOTH AND EVEN FINISH.
4. ALL OPENINGS FOR PIPES IN PRECAST MANHOLES WITHOUT FLEXIBLE CONNECTIONS SHALL BE CAST, WITH KEY, FOR GROUTING OF PIPES.
5. STONE AND CONCRETE AS SPECIFIED SHALL CONFORM TO MO. S.H.A. STANDARD SPECIFICATIONS.

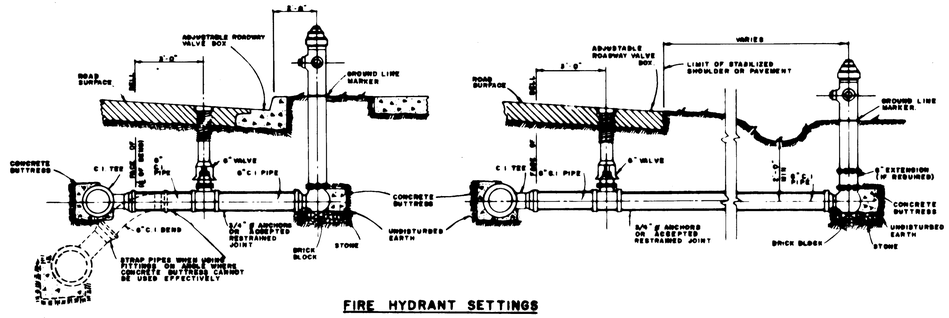
HOUSE CONNECTIONS

1. WHERE CAST IRON MAINS ARE USED, THE DROP CONNECTIONS SHALL BE CAST IRON AND SHALL RISE VERTICALLY FROM MAIN LINE TEE FITTINGS. NO CONCRETE ENCASEMENT IS REQUIRED.

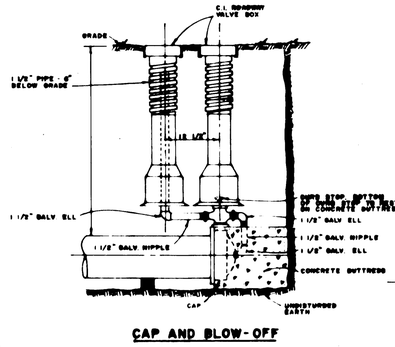
#2697

		REVISIONS	CITY OF WESTMINSTER	McSHEA BUILDING	SHEET NO. 11 OF 13
			DEPARTMENT OF PLANNING AND PUBLIC WORKS	STANDARD SANITARY SEWER DETAILS	PROJECT NO. 1885287/282A0
					FILE NO.

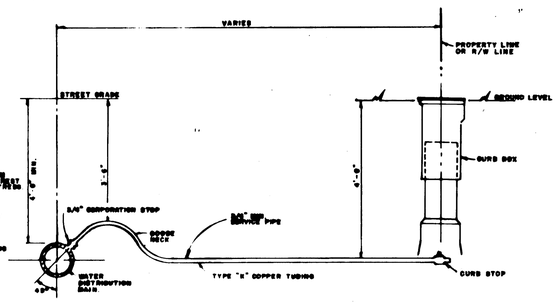
3.B.3 17247



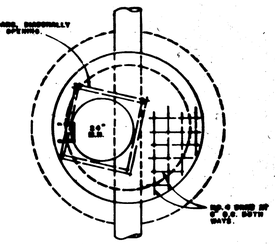
FIRE HYDRANT SETTINGS

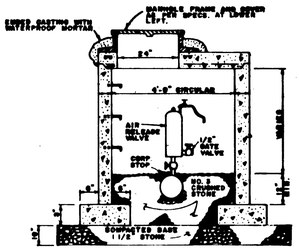


CAP AND BLOW-OFF

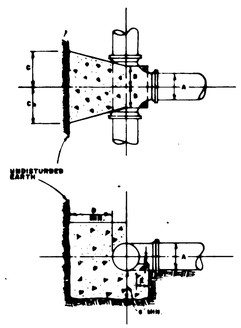


HOUSE SERVICE CONNECTION

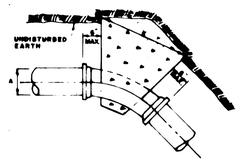


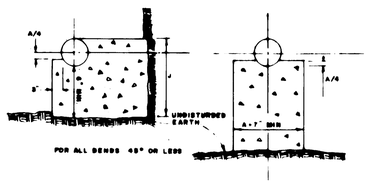


AIR RELEASE VALVE IN MANHOLE

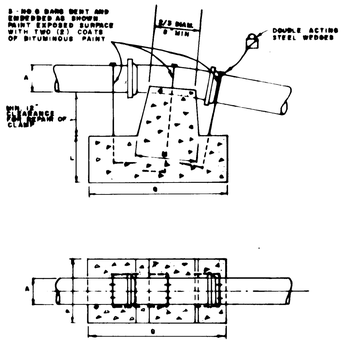


BUTTRESS FOR TEES

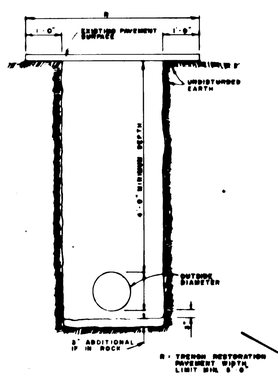




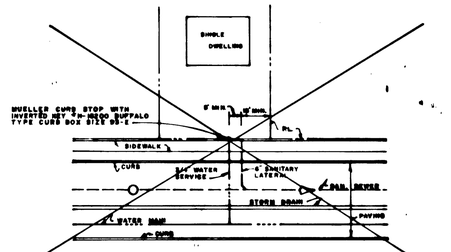
BUTTRESS FOR HORIZONTAL AND VERTICAL BENDS



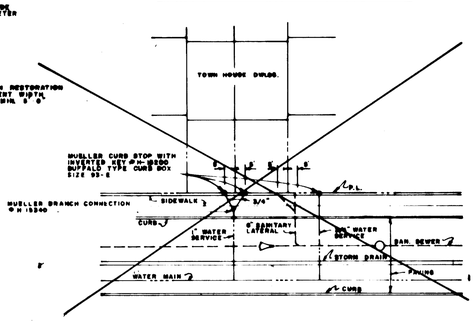
ANCHORAGE FOR VERTICAL BENDS



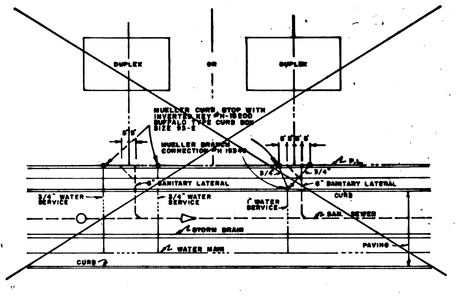
TRENCH DETAIL



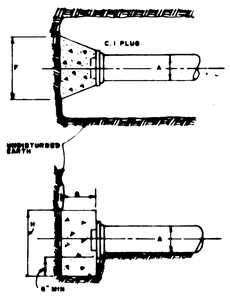
TYPICAL SINGLE DWELLING SERVICE



TYPICAL TOWNHOUSE SERVICE

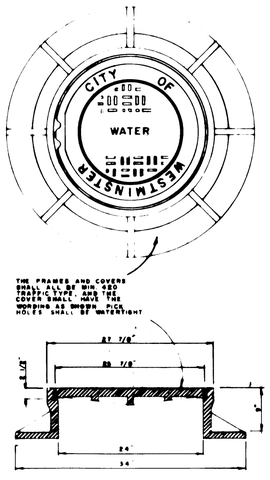


TYPICAL DUPLEX DWELLING SERVICE



BUTTRESS FOR CAPS

MINIMUM BUTTRESS DIMENSIONS						
A	PIPE SIZE	6"	8"	10"	12"	16"
B		7"	9"	10"	12"	14"
C		7"	9"	13"	15"	20"
D		10"	10"	10"	12"	14"
E		1'-5"	2'-0"	2'-9"	3'-0"	4'-0"
F		1'-5"	2'-1"	2'-10"	3'-0"	4'-0"
G		8"	8"	10"	10"	12"
H		1'-5"	1'-5"	2'-0"	2'-2"	2'-8"
J		10"	12"	14"	16"	20"
K	11 1/4°	12"	12"	14"	16"	20"
	22 1/2°	12"	12"	16"	18"	28"
	45°	18"	24"	32"	42"	58"
	90°	32"	42"	66"	72"	102"
L	11 1/4°	18"	24"	24"	30"	36"
	22 1/4°	24"	24"	30"	30"	42"
	45°	24"	30"	42"	48"	54"
M		30"	24"	30"	30"	36"
P	11 1/4°	18"	24"	30"	30"	36"
	22 1/2°	24"	30"	36"	42"	48"
	45°	30"	36"	42"	48"	60"
Q	11 1/4°	24"	24"	30"	36"	42"
	22 1/2°	30"	36"	42"	48"	54"
	45°	42"	48"	54"	60"	72"



MANHOLE FRAME & COVER

GENERAL NOTES

1. ALL CONCRETE TO BE MIX NO. 1
2. CARRY CONCRETE BUTTRESSES TO UNDISTURBED EARTH.
3. BUTTRESS DIMENSIONS SHOWN ARE MINIMAL. DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 P.S.F. AND STATIC WATER PRESSURE OF 150 P.S.I. WHERE WATER PRESSURE EXCEEDS 150 P.S.I. AND/OR WHERE SOIL BEARING PRESSURE IS LESS THAN 2000 P.S.F. SPECIAL BUTTRESS DESIGN IS REQUIRED.
4. ALL WATER MAINS AND LATERAL SHALL HAVE A MINIMUM COVER OF 4'-0".
5. THE CITY MAY ACCEPT EQUAL MATERIALS IF SUBMITTED BY THE CONTRACTOR.

#2698

NO.	REVISION	DATE	BY
9			
8			
7			
6			
5			
4			
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2			
1			

DRAWN BY: R.C.H. FEB 80 JUNE 1976
CHECKED BY:
APPROVED BY:
SCALE: NO SCALE

CITY OF WESTMINSTER
DEPARTMENT OF PLANNING AND PUBLIC WORKS
CITY HALL
WESTMINSTER MARYLAND, 21157

REGISTRATION NO.

McSHEA BUILDING

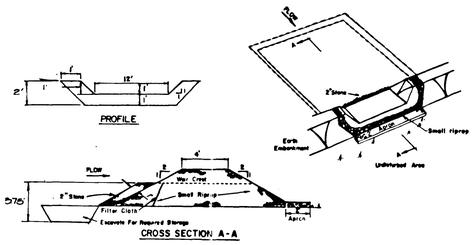
STANDARD DETAILS FOR WATER MAINS

SHEET NO 12 OF 13
PROJECT NO 1885231/ 79345
FILE NO

3.B.3

1257A

STONE OUTLET SEDIMENT TRAP 'ST'



OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

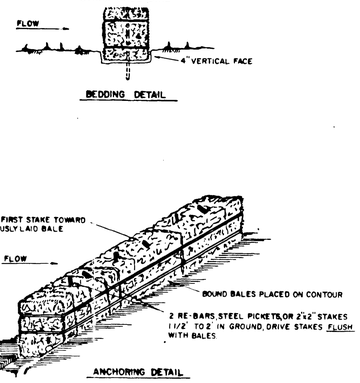
CONSTRUCTION SPECIFICATIONS FOR ST-V

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. A'l cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap OR embedded filter cloth is the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Drainage Area: 3 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING ST-V

STRAW BALE DIKE

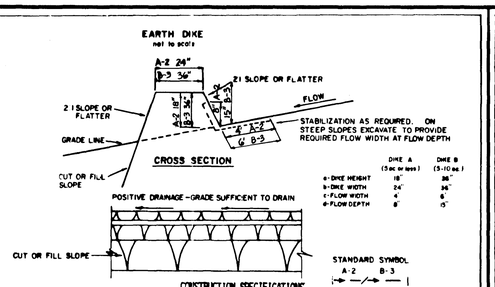


CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAG .

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STRAW BALE DIKE	STANDARD DRAWING SBD-1

EARTH DIKE



CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON; (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

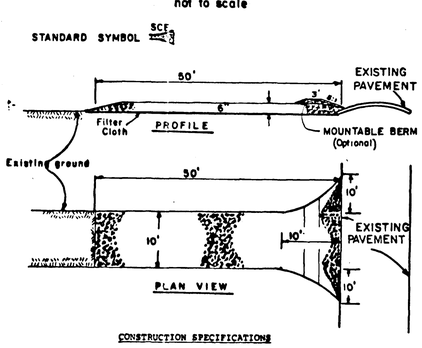
TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	EARTH DIKE	STANDARD DRAWING ED-1

STABILIZED CONSTRUCTION ENTRANCE

not to scale



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occura.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1

Soil Conservation District Certification

The Development Plan is Approved For Soil Erosion And Sediment Control By The Carroll Soil Conservation District

Approved _____ Carroll SCD _____ Date 8/27/86

Soil Conservation Service Certification

Reviewed for Carroll S.C.D.
Name

and meets Technical Requirements

_____ Date 8/25/86
Signature

U. S. Soil Conservation Service

DEVELOPER

I certify that this plan of Sediment Control will be implemented to the fullest extent, and all structures will be installed to the design and specifications as spelled out in this plan, and any responsible personnel involved in the construction project will have a certificate of attendance at a Water Resources Administration approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site evaluation by the Carroll Soil Conservation District personnel and cooperating agencies.

_____ 6/6/86
Owner/Developer Date

SURVEYOR

I certify that this plan of Sediment Control is designed with my personal knowledge of the site conditions and has been designed to the Standards and Specifications adopted by the Carroll Soil Conservation District.

_____ 6/5/86
Surveyor Date

SEDIMENT CONTROL NOTES

1. No grading can take place until the Grading Permit has been issued by the Permits and Inspections Department or where an approval letter has been received by the owner from the Carroll Soil Conservation District.
2. Structural measures such as berms, dikes, traps, basins, etc. will be installed and stabilized according to this plan prior to any other grading, clearing, or disturbance of the existing surface of the site.
3. On-site inspection and maintenance of all sediment control measures including clean-out of sediment traps and berms and proper establishment of all planned vegetative measures, will be the responsibility of the Developer on the site on a continuing day to day basis.
4. Sediment trapped behind sediment trapping facilities shall be removed as shown on plans.
5. Appropriate sediment control measures to be installed prior to and in accordance with stages of related road and other construction according to the plan.
6. On all diversion dikes positive flow will be established to sediment control structures from planned contributing runoff areas.
7. Flow from all disturbed areas to be directed to a sediment control device as shown on approved plans until the area is fully stabilized.
8. Parabolic grass waterways as shown on plans shall be adequately established in grass growth prior to release of Bond.
9. Jute thatching to be applied to all parabolic waterways and secured using 8 gauge 'U' shaped wire staples six (6) inches long.
10. All temporary sediment control measures are to be removed and these areas stabilized prior to release of sediment control bond.

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. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF SEDIMENT CONTROLS.

STABILIZATION SPECIFICATIONS

Temporary: seeding dates March 1 to November 15

1. Loosen area by discing, raking or other acceptable means.
2. Fertilize using 10-20-10 or equivalent at 600 lbs/ac. or 15 lbs/1000 s.f. Soils known to be highly acid should be limed.
3. Seed using any one of the following:
   - Barley at 2.8 lbs/1000 s.f. or 122 lbs/ac or
   - Oats at 2.2 lbs/1000 s.f. or 96 lbs/ac or
   - Rye at 3.2 lbs/1000 s.f. or 140 lbs/ac
4. Mulch using unrotted small grain straw at 1½ -2 tons/ac or 70-90 lbs/1000 s.f.
5. Apply emulsified asphalt at 5 gals/1000 s.f. or 218 gals/ac on flat areas or where slope is less than 8' high. On slopes higher than 8' or steeper than 3:1 apply emulsified asphalt at the rate of 8 gals/1000 s.f. or 348 gals/ac.

Permanent: seeding dates March 1 to October 30

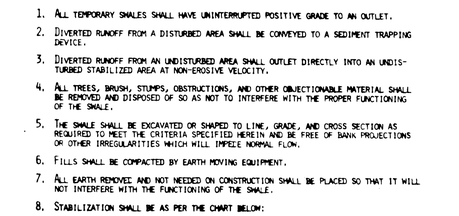
1. Loosen top of grade and lime at the rate of 4000 lbs. per acre.
2. Place topsoil 3" minimum depth.
3. Fertilize using 10-10-10 at the rate of 1000 lbs/ac or 23 lbs/1000 s.f.
4. Seed using Kentucky -31 tall fescue at the rate of 60 lbs/acre or 1.38 lbs/1000 s.f. During the period of April 1 to August 31 Weeping Lovegrass shall be added to the K-31 at the rate of 2 lbs/ac or 0.05 lbs/1000 s.f.
5. Apply straw mulch and emulsified asphalt binder as specified above for temporary stabilization.

Tracking note:

On areas where the slope is 3:1 or steeper and the height is 8' or greater Contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required, it shall be done from existing grade level to finished grade level within the limits established by the 8' height criteria.

"FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION (SPECIFIED ON PLANS) SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE."

TEMPORARY SWALE



CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

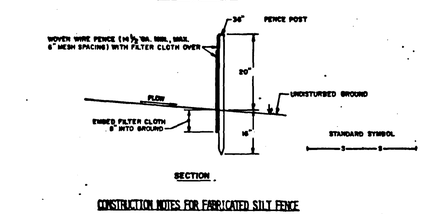
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	TEMPORARY SWALE	STANDARD DRAWING TS-1

SILT FENCE



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 AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES 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, 14½ GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE

SEDIMENT AND EROSION CONTROL DETAILS

FOR

McSHEA BUILDING

PROPOSED CHAIN AFFILIATED HOTEL

19 of 19

KIDDE CONSULTANTS, INC.
CONSULTING ENGINEERS
111 JOHN STREET / WESTMINSTER, MARYLAND 21157
(301) 848-1780 / 876-2017

DATE June 6, 1986 SCALE NONE

3-B-3

#2699

STANDARD DRAWING - SEDIMENT CONTROL DETAILS - FILE #25/1A

GENERAL NOTES

1. ALL CONSTRUCTION ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE "GENERAL SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION", AND THE BOOK OF STANDARDS, HIGHWAY AND INCIDENTAL STRUCTURES AND "HIGHWAY DRAINAGE MANUAL" OF THE MARYLAND STATE HIGHWAY ADMINISTRATION "1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE, AND ALL ADDENDA AND ERRATA TO ANY AND ALL OF THE ABOVE.
2. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ANY UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
3. CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 A MIN. OF (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEERING OFFICE OF KIDDE CONSULTANTS, INC. AT (301) 848-1790 OR (301) 876-2017 IN THE EVENT OF ANY DISCREPANCIES IN THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADE PRIOR TO BEGINNING WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON ANY EXISTING ROADS.
6. THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS THE FIGURED DIMENSION SHALL GOVERN.
7. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
8. THE CONTRACTORS ATTENTION IS SPECIFICALLY DIRECTED TO PAGE 16, SECT 12:00 "GENERAL" UNDER THE SPECIFICATIONS AND STANDARDS FOR HIGHWAY AND STREET DESIGN AND CONSTRUCTION" ITEM 12.01 AND 12.02 ARE HEREBY MADE A PART OF THE CONTRACT.
9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES AT LEAST 72 HOURS BEFORE STARTING ANY CONSTRUCTION-
   BALTIMORE GAS & ELECTRIC CO..... 234-3691
   C & P TELEPHONE CO.. 539-9977
   MISS UTILITY-CALL. 1-800-257-7777
10. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENT CONTROL **FACILITIES AS SHOWN ON THE PLAN** ALONG THE COURSE OF HIS CONSTRUCTION. THE FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL."
11. ALL **PAVING** DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED IN ACCORDANCE WITH COUNTY ROADS DETAILS.
12. ALL STORM DRAINAGE CULVERTS LOCATED AT OR NEAR EXISTING SWALES ARE INTENDED TO BE IN THE SWALES UNLESS OTHERWISE NOTED.
13. ALL RIP-RAP SPECIFIED SHALL BE LOOSE LAID STONE. RIP-RAP PLACED AT STORM DRAIN OUTFALLS IN EXISTING SWALES SHALL BE PLACED SO AS TO COMPLETELY LINE THE EXISTING SWALE WITH ONLY THE MINIMUM POSSIBLE GRADING OR SHAPING OF THE SWALE.
14. INLET GRATES IN SUMPS SHALL BE CONSTRUCTED LEVEL AT THE ELEVATION GIVEN IN THE STRUCTURE SCHEDULE. INLETS ON GRADE SHALL BE ADJUSTED SO THAT THE GRADE OF THE GRATE MATCHES THE FINISHED FLOW LINE OF THE CURB. TOP ELEV. SHALL BE THE TOP OF INLET GRADE AT THE INTERSECTION OF THE CENTERLINE OF INLET AND FLOW LINE AT BASE OF CURB.
15. STORM DRAIN PIPE FOR THIS PROJECT SHALL BE **CORRGATED METAL PIPE** NOTED CMP UNLESS OTHERWISE NOTED ON PLANS.
16. ALL CURB FILLET RADII SHALL BE **AS SHOWN ON THE PLANS**
17. ALL RIP-RAP FOR THIS PROJECT SHALL BE SIZED IN ACCORDANCE WITH MARYLAND SCS/W.R.A. STANDARDS AND SPECIFICATIONS FOR ROCK OUTLET PROTECTION

SITE DEVELOPMENT PLAN

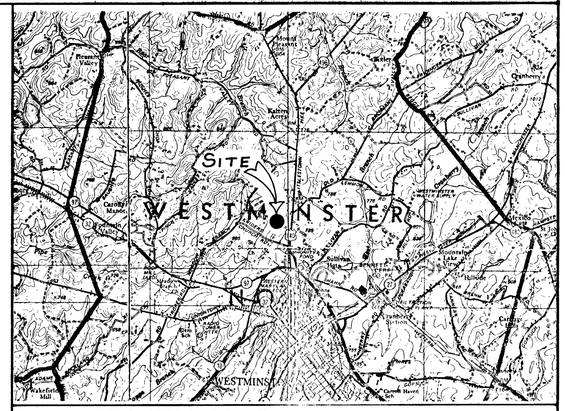
MANUFACTURING FACILITY

FOR

FLECK, MILLER, & SMITH INC.

LOT F-1

CARROLL COUNTY AIR BUSINESS CENTER



VICINITY MAP

LIST OF DRAWINGS

1 TITLE SHEET
2 SITE DEVELOPMENT PLAN
3 GRADING PLAN
4 SEDIMENT CONTROL PLAN
5 SEDIMENT CONTROL DETAILS
6 LANDSCAPE PLAN

REVISIONS

NO.	DATE	REVISION	BY
1	9-10-86	REVISED AS PER COUNTY COMMENTS	T.A.B.

OWNER	DEVELOPER	PREPARED BY
COUNTY COMISSIONERS OF CARROLL COUNTY 225 N. CENTER STREET WESTMINSTER MARYLAND, 21157	FLECK, MILLER & SMITH, INC. 2515 RIDGE ROAD WESTMINSTER, MARYLAND 21157	KIDDE CONSULTANTS, INC. CONSULTING ENGINEERS AND SURVEYORS 439 EAST MAIN STREET WESTMINSTER MARYLAND 21157 301) 848-1790 / 876-2017

CARROLL COUNTY ZONING ADMINISTRATOR APPROVAL.
BY Solveig L. Smith DATE 10-10-86

CARROLL COUNTY FIRE PROTECTION ENGINEER.
BY _____ DATE _____

CARROLL COUNTY HEALTH DEPARTMENT APPROVAL.
BY _____ DATE 10/8/86

Scott R. Campbell 9-23-86
FIRE PROTECTION ENGINEER DATE

CK DT 10/11/86

CITY OF WESTMINSTER

_____ DATE
DIRECTOR OF PLANNING AND PUBLIC WORKS

_____ DATE
MAYOR

CORPORATION OF WESTMINSTER 1838

APPROVED AS TO SHEETS 1 THROUGH 6

_____ 9/26/86
SOIL CONSERVATION DISTRICT ~~MANAGER~~ DATE

_____ 9.18.86
STATE HIGHWAY ADMINISTRATION

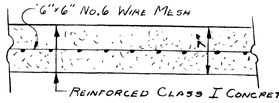
_____ 10/10/86
DIRECTOR OF ZONING DATE

2-12-B

#2242

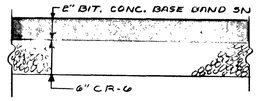
REUFFEL & ESSER COMPANY

FIXING SECTION AT ENTRANCES (N.T.S.)



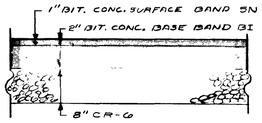
SEE CARROLL COUNTY STD. # 8

ON-SITE PAVING SECTION, PARKING (N.T.S.)



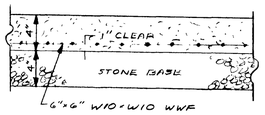
PAVING SECTION 'B'

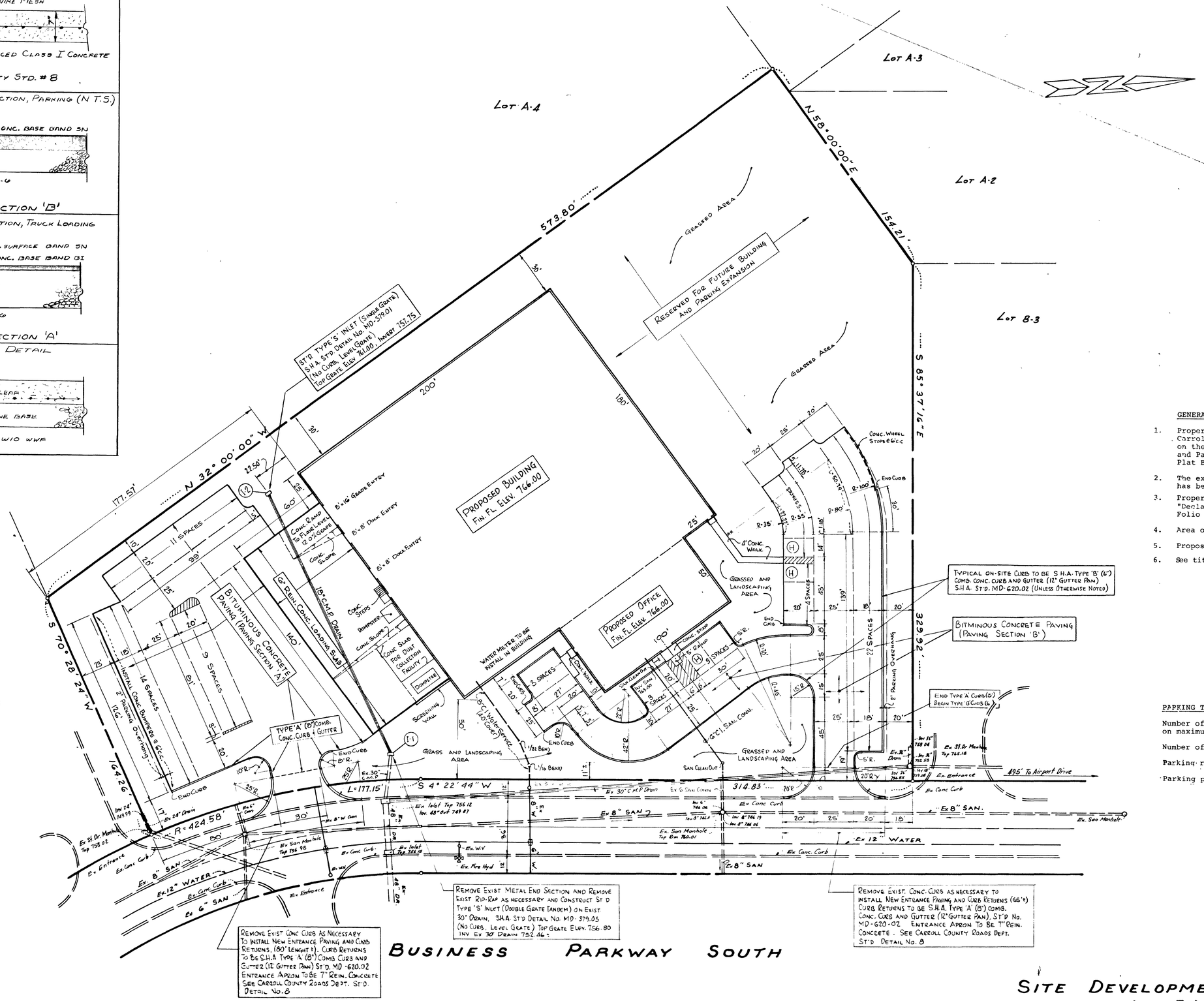
ON-SITE PAVING SECTION, TRUCK LOADING AREA (N.T.S.)



PAVING SECTION 'A'

SIDEWALK DETAIL





GENERAL NOTES

1. Property shown hereon is owned by the County Commissioners of Carroll County and is known as Lot F-1, as designated and shown on the record plat entitled "Resubdivision of Tract 'F', Lot A-1 and Parcel 'A', Carroll County Air Business Center, Recorded in Plat Book 27, Plat 191.
2. The existing topography shown on the grading plan, sheet 3 of 6 has been field run by Kidde Consultants, Inc.
3. Property shown hereon is zoned: IR and is subject to the "Declaration of Protective Covenants" recorded in Liber 776, Folio 602.
4. Area of property: 3.8222 acres
5. Proposed use: manufacturing
6. See title sheet, sheet 1 of 6 for additional general notes

PARKING TABULATION

Number of parking spaces required: 1 space for every 1.5 employees on maximum shift

Number of employees on maximum shift: 70

Parking required: 70 ÷ 1.5 = 47 spaces

Parking provided: 71 spaces @ 9' x 20'

Plus 3 handicapped spaces @ 12' x 20'

Total spaces = 74

SITE DEVELOPMENT PLAN
LOT F-1

DRAWN	DATE	REVISIONS
CHECKED		
APPD		
TRACED		

KIDDE CONSULTANTS, INC.
ENGINEERS • SURVEYORS • PLANNERS
439 EAST MAIN STREET WESTMINSTER MARYLAND 21157 301-876-2017

CARROLL COUNTY AIR BUSINESS CENTER
WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN PB. 27, P. 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD.

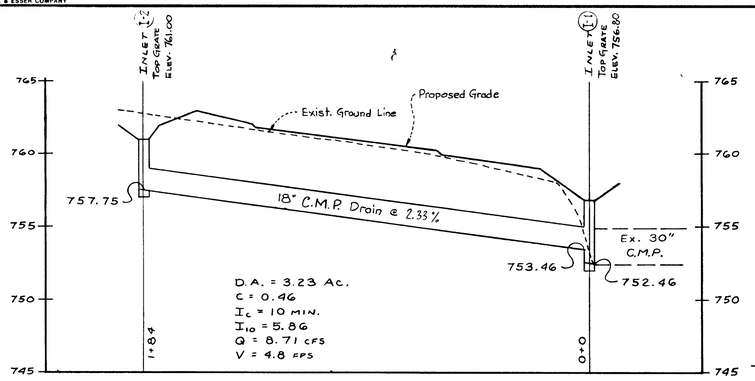
SHEET	DATE	JOB NUMBER
2 OF 6	August 5, 1986	1586 210
	SCALE 1"=30'	

#2243

2-12-B

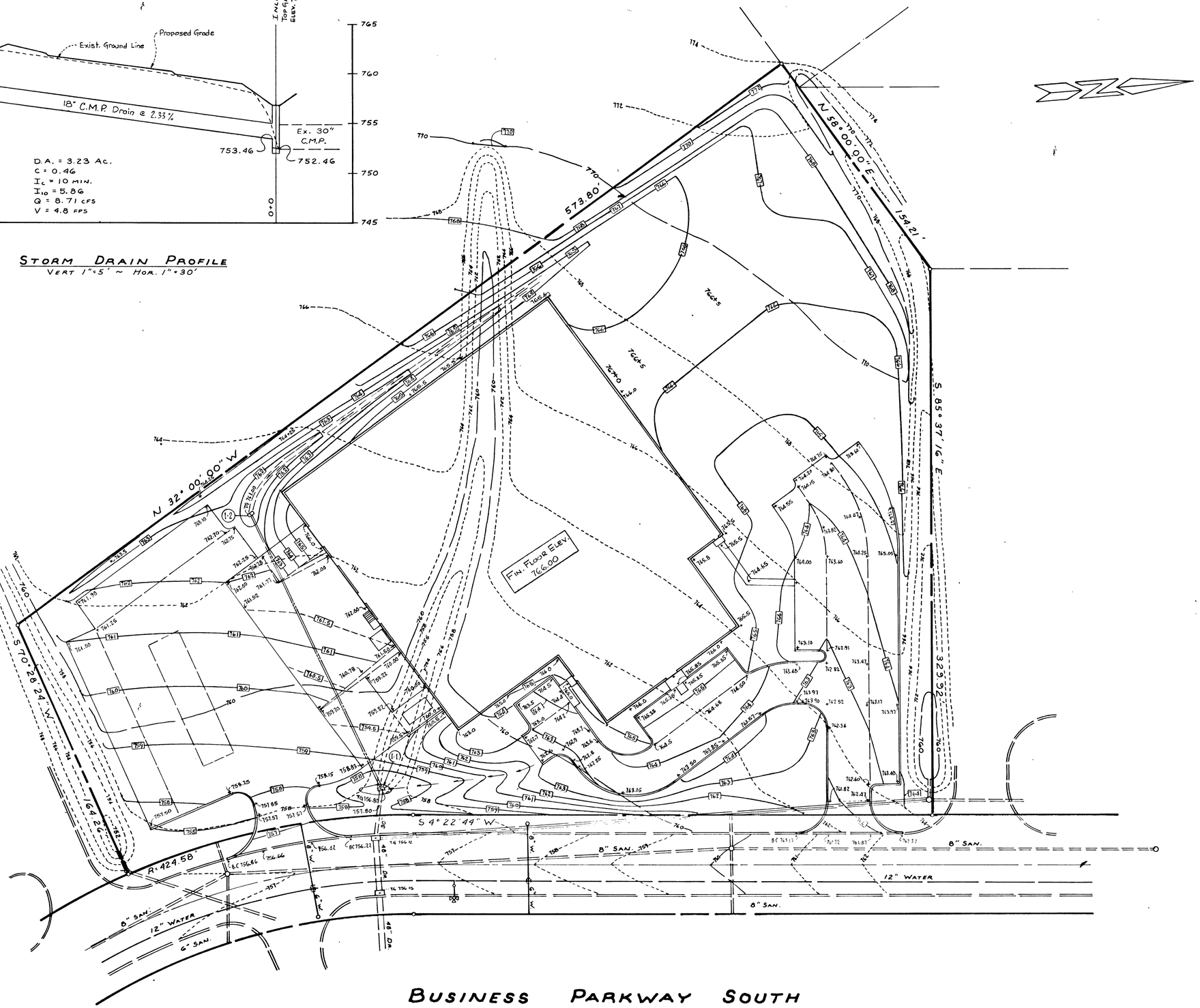
Carroll County Air Business Center 2of6

KEUFFEL & ESSER COMPANY



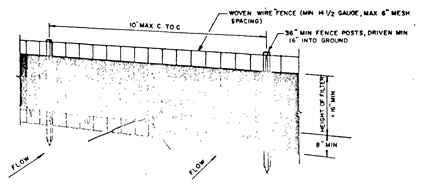
STORM DRAIN PROFILE

VERT 1"=5' ~ HOR. 1"=30'

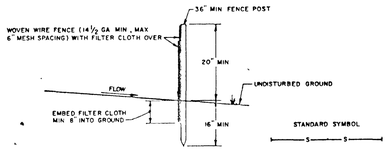

N 58° 00' 00" E
154.21'
573.80'
S 85° 37' 16" E
329.92'
N 32° 00' 00" W
S 70° 28' 24" W
164.26'
R=424.58'
S 4° 22' 49" W
FIN. FLOOR ELEV 766.00
764±S
764±S
764±S

KEUFFEL & ESSER COMPANY

SILT FENCE



PERSPECTIVE VIEW



SECTION

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 AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

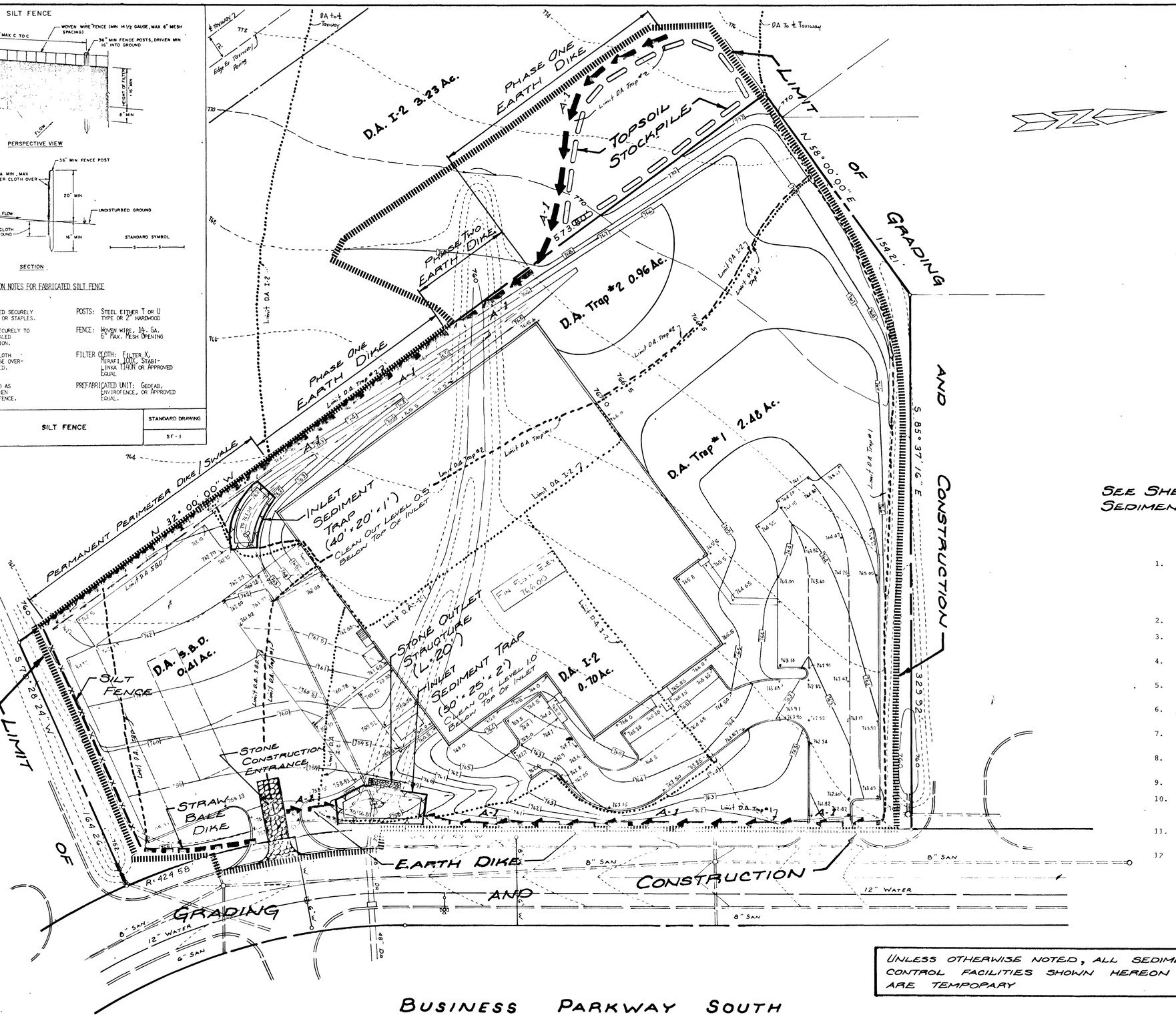
POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14½ GA. 6" MAX. MESH OPENING

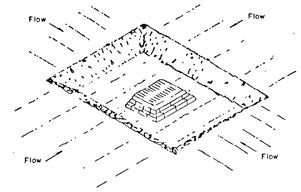
FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

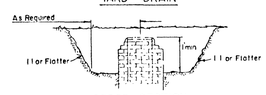
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE	STANDARD DRAWING SF-I



STORM INLET SEDIMENT TRAP ST-III



YARD DRAIN



CROSS SECTION

CONSTRUCTION SPECIFICATION FOR ST-III

1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
6. All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 3 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STORM INLET SEDIMENT TRAP	STANDARD DRAWING ST-III

SEE SHEET 5 OF 6 FOR ADDITIONAL SEDIMENT CONTROL DETAILS

REQUIRED SEQUENCE OF CONSTRUCTION

1. Install stabilized construction entrance, stone outlet structure across existing drainage ditch in front of existing 30" drain, earth dike (phase one along rear property line), perimeter dike/swale along rear property line, earth dike and straw bale along front property line and silt fence along top of ditch on south property line). Notify the Water Resources Administration inspector before proceeding further.
2. Strip and stockpile topsoil.
3. Beginning rough grading of site and construct storm drainage inlets and pipe.
4. Upon completion of inlet I-1 complete backfill of existing drainage ditch around inlet and construct inlet sediment trap #1.
5. Upon completion of inlet I-2 complete backfill around inlet and construct inlet sediment trap #2.
6. Upon completion and stabilization of backfill in existing drainage ditch west property line construct earth dike phase two.
7. Complete rough site grading, beginning building and utility construction.
8. Fine grade driveways, parking areas and loading areas and install stone base course.
9. Install curbs.
10. Fine grade areas to be grassed, spread topsoil (2" minimum) and stabilize with permanent seeding as specified in "Method of Stabilization".
11. Remove sediment control structures in driveways and install bituminous paving.
12. With approval of the inspection agency remove earth dike, storm inlet sediment traps and silt fence backfill and grade and stabilize with permanent seeding as specified above.

UNLESS OTHERWISE NOTED, ALL SEDIMENT CONTROL FACILITIES SHOWN HEREON ARE TEMPOPARY

SEDIMENT CONTROL PLAN
LOT F-1

#2245

	DATE	REVISIONS
Drawing	2/10/86	Revised per SAC Comments
Check		
Design		
Check		

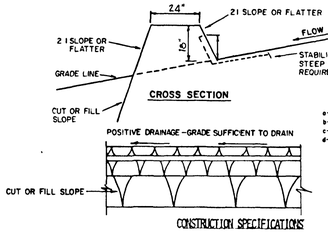
KIDDE CONSULTANTS, INC.
ENGINEERS • SURVEYORS • PLANNERS
439 EAST MAIN STREET WESTMINSTER MARYLAND 21157 301-876-2017

CARROLL COUNTY AIR BUSINESS CENTER
WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN P.B 27, P. 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD.

SHEET	DATE	JOB NUMBER
4 OF 6	August 5, 1986	1586 210
	SCALE 1"=30'	
	2-12-87	

Carroll County Air Business Center 4

EARTH DIKE
not to scale



CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

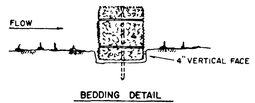
TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

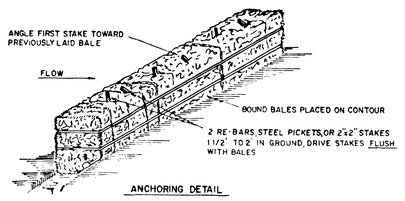
U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	EARTH DIKE	STANDARD DRAWING ED-1

STRAW BALE DIKE



BEDDING DETAIL

STANDARD SYMBOL
SBD



ANCHORING DETAIL

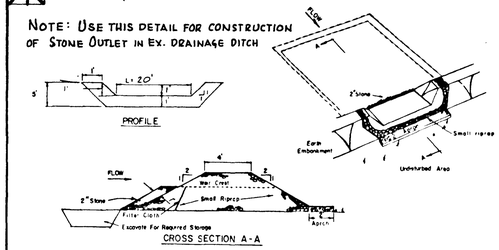
CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR, REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STRAW BALE DIKE	STANDARD DRAWING SBD-1

STONE OUTLET SEDIMENT TRAP

NOTE: USE THIS DETAIL FOR CONSTRUCTION OF STONE OUTLET IN EX. DRAINAGE DITCH



CROSS SECTION A-A

OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

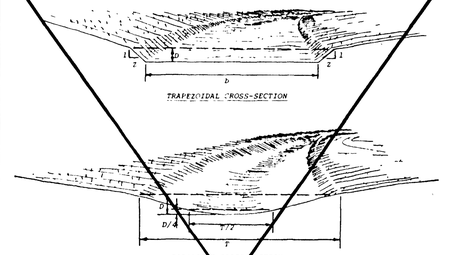
CONSTRUCTION SPECIFICATIONS FOR ST-V

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING ST-V

GRASSED WATERWAY



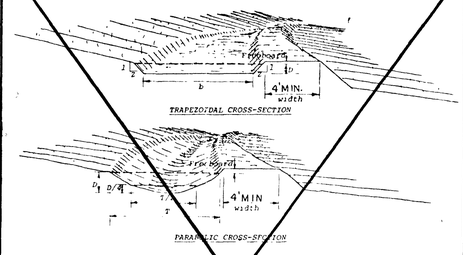
Construction Specifications

1. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the waterway.
2. The waterway shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein, and be free of bank projections or other irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the complete waterway.
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the waterway.
5. Stabilization shall be done according to the appropriate Standard and Specifications for Vegetative Practices.
   A. For design velocities of less than 3.5 ft. per sec., seeding and mulching may be used for the establishment of the vegetation. It is recommended that, when conditions permit, temporary diversions or other means should be used to prevent water from entering the waterway during the establishment of the vegetation.
   B. For design velocities of more than 3.5 ft per sec , the waterway shall be stabilized with sod, with seeding protected by jute or excelsior matting or with seeding and mulching including temporary diversion of the water until the vegetation is established.
   C. Structural Vegetative Protection
      (1) Subsurface drain for base flow shall be constructed as shown on the Standard Drawing and as specified in the Standard and Specifications for Subsurface Drain.

Standard Symbol GW

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	GRASSED WATERWAY	Standard Drawing GW-1

DIVERSION



Construction Specifications

1. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the diversion.
2. The diversion shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein, and be free of irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the completed diversion
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the diversion.
5. Stabilization shall be done according to the appropriate Standard and Specifications for Vegetative Practices.
   A For design velocities of less than 3.5 ft. per sec., seeding and mulching may be used for the establishment of the vegetation. It is recommended that, when conditions permit, temporary diversions or other means be used to prevent water from entering the diversion during the establishment of the vegetation
   B For design velocities of more than 3.5 ft. per sec , the diversion shall be stabilized with sod, with seeding protected by jute or excelsior matting or with seeding and mulching including temporary diversion of water until the vegetation is established
   See the Standard and Specifications for Protective Materials

Standard Symbol

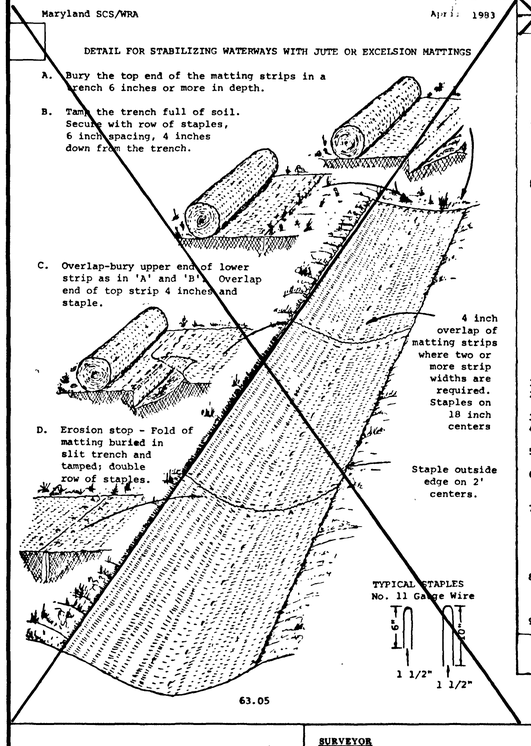
U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, MD	DIVERSION	Standard Drawing GW-3

Maryland SCS/WRA April 1983

DETAIL FOR STABILIZING WATERWAYS WITH JUTE OR EXCELSION MATTINGS

A. Bury the top end of the matting strips in a trench 6 inches or more in depth.

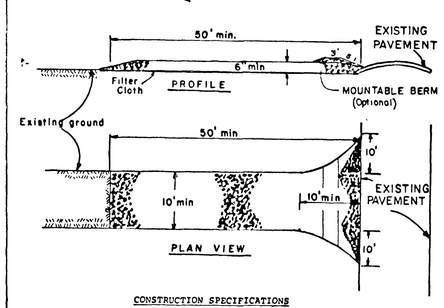
B. Tamp the trench full of soil. Secure with row of staples, 6 inch spacing, 4 inches down from the trench.



63.05

STABILIZED CONSTRUCTION ENTRANCE
not to scale

STANDARD SYMBOL SCE

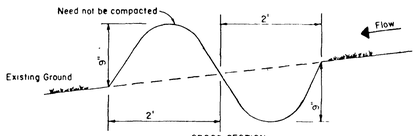


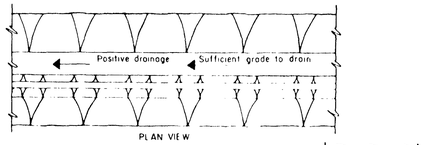
CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1

PERIMETER DIKE/SWALE
not to scale





CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTRUBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SEED AND STRAW MULCH, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

Max Drainage Area Limit: 2 Acres

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	PERIMETER DIKE/SWALE	Standard Drawing PDS-1

Denotes when applicable to this project.

SEDIMENT CONTROL NOTES

1. No grading can take place until the Grading Permit has been issued by the Permits and Inspections Department or where an approval letter has been received by the owner from the Carroll Soil Conservation District.
2. Structural measures such as berms, dikes, traps, basins, etc. will be installed and stabilized according to this plan prior to any other grading, clearing, or disturbance of the existing surface of the site. See Required Sequence of Construction (Sheet 4 of 6)
3. On-site inspection and maintenance of all sediment control measures including clean-out of sediment traps and berms and proper establishment of all planned vegetative measures, will be the responsibility of the Developer on the site on a continuing day to day basis.
4. Sediment trapped behind sediment trapping facilities shall be removed as shown on plans. (Sheet 4 of 6)
6. Appropriate sediment control measures to be installed prior to and in accordance with stages of related road and other construction according to the plan.
6. On all diversion dikes positive flow will be established to sediment control structures from planned contributing runoff areas.
7. Flow from all disturbed areas to be directed to a sediment control device as shown on approved plans until the area is fully stabilized.
8. Parabolic grass waterways as shown on plans shall be adequately established in grass growth prior to release of Bond
9. Jute thatching to be applied to all parabolic waterways and secured using 8 gauge 'U' shaped wire staples six (6) inches long
10 All temporary sediment control measures are to be removed and these areas stabilized prior to release of sediment control bond

STABILIZATION SPECIFICATIONS

Temporary: seeding dates March 1 to November 15
1. Loosen area by discing, raking or other acceptable means.
2. Fertilize using 10-20-10 or equivalent at 600 lbs/ac. or 15 lbs/1000 s.f. Soils known to be highly acid should be limed.
3. Seed using any one of the following:
   Barley at 2.8 lbs/1000 s.f. or 122 lbs/ac or
   Oats at 2.2 lbs/1000 s.f. or 96 lbs/ac or
   Rye at 3.2 lbs/1000 s.f. or 140 lbs/ac
4. Mulch using unrotted small grain straw at 1½ -2 tons/ac or 70-90 lbs/1000 s.f.
5. Apply emulsified asphalt at 5 gals/1000 s.f. or 218 gals/ac on flat areas or where slope is less than 8' high. On slopes higher than 8' or steeper than 3:1 apply emulsified asphalt at the rate of 8 gals/1000 s.f. or 348 gals/ac.

Permanent: seeding dates 3-1 to 4-30 & 8-1 to 10-15
1. loosen top of grade and lime at the rate of 4000 lbs/acre
2. Place topsoil 3" minimum depth.
3. Fertilize using 10-10-10 at the rate of 1000 lbs/ac or 22.5 lbs/1000 s.f.
4. Seed using Kentucky -31 tall fescue at the rate of 60 lbs/acre or 1.38 lbs/1000 s.f. During the period of April 1 to August 31 Weeping Lovegrass shall be added to the K-31 at the rate of 2 lbs/ac or 0.05 lbs/1000 s.f.
5. Apply straw mulch and emulsified asphalt binder as specified above for temporary stabilization.

Tracking note:
On areas where the slope is 3:1 or steeper and the height is 6' or greater Contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required, it shall be done from existing grade level to finished grade level within the limits established by the 8' height criteria.

Soil Conservation District Certification

The Development Plan is Approved For Soil Erosion And Sediment Control By The Carroll Soil Conservation District

Approved _____ Date _____
Carroll SCD

Soil Conservation Service Certification

Reviewed for Carroll S.C.D
Name
and meets Technical Requirements

Signature 9/25/86

U. S. Soil Conservation Service

SURVEYOR

I certify that this plan of Sediment Control is designed with my personal knowledge of the site conditions and has been designed to the Standards and Specifications adopted by the Carroll Soil Conservation District

Surveyor Date Aug 5, 1986

DEVELOPER

I certify that this plan of Sediment Control will be implemented to the fullest extent, and all structures will be installed to the design and specifications as spelled out in this plan and that any responsible personnel involved in construction project will have a certification 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 evaluation by the Carroll Soil Conservation District personnel and cooperating agencies.

Owner/Developer Date Aug. 7 86

"FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION (SPECIFIED ON PLANS) SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMITER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE."

SEDIMENT CONTROL FACILITIES FOR THIS PROJECT SHALL CONFORM TO "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL"

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. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF SEDIMENT CONTROLS.

Denotes When Applicable To This Project

SEDIMENT CONTROL DETAIL
LOT F-1
CARROLL COUNTY AIR BUSINESS CENTER

WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN PB. 27, P. 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD.

KIDDE CONSULTANTS, INC.

DATE	REVISION	BY

SURVEYED BY
COMPUTED BY
DRAWN BY
CHECKED BY
Drwg. No. 1586-210

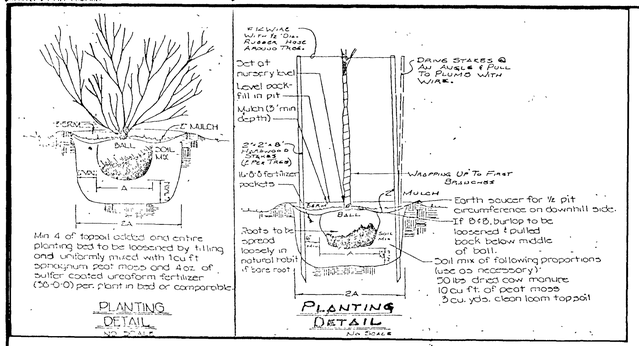
ENGINEERS, LAND PLANNERS & SURVEYORS
435 E. MAIN STREET / WESTMINSTER, MARYLAND 21157
(301) 848-1790 / 876-2017
538 POPLAR STREET / CAMBRIDGE, MD 21613 (301) 228-3350
1062 WEST STREET / LAUREL, MD 20707 (301) 792-8066

DATE August 5, 1986 SCALE 1"=30'

#2246

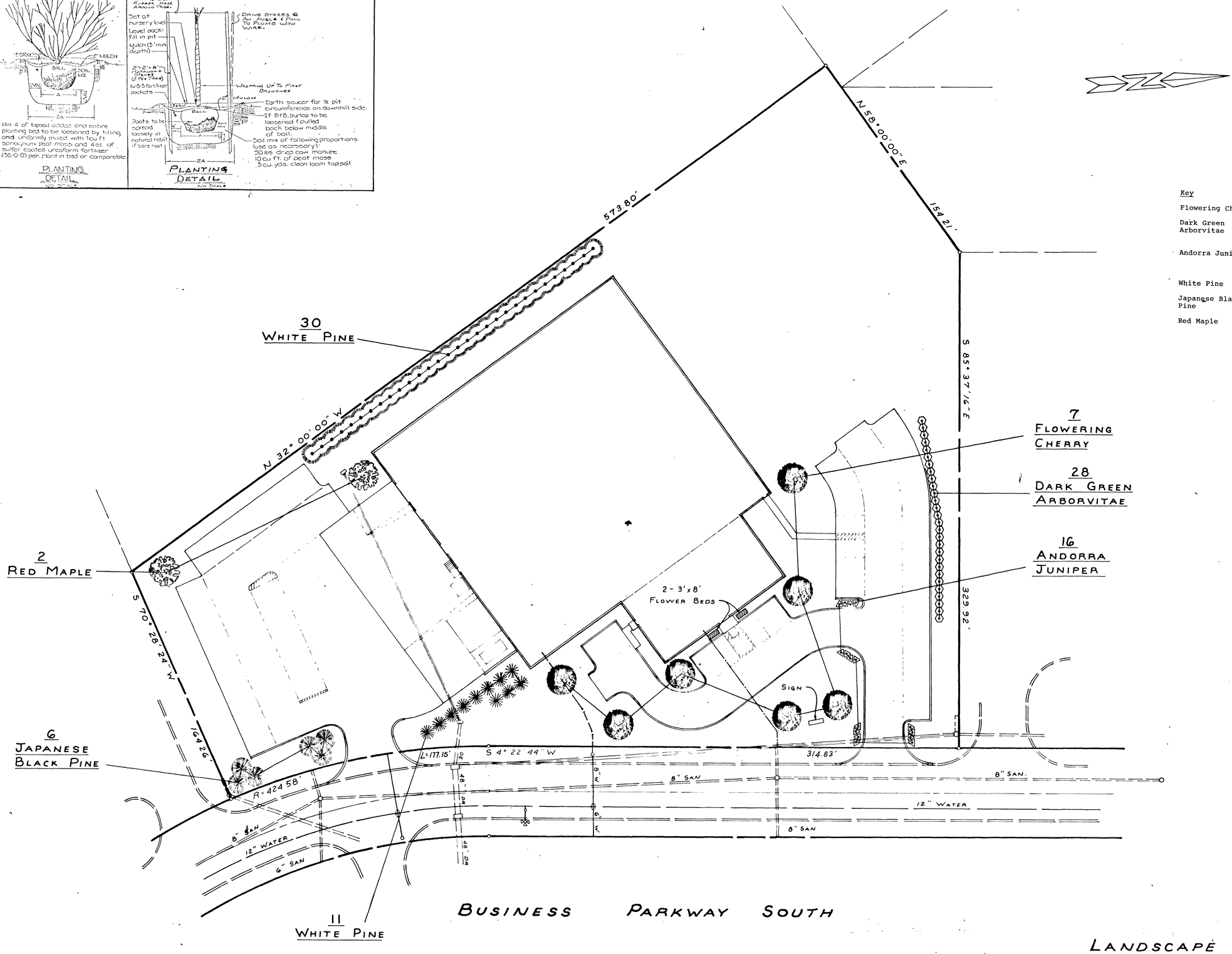
Carroll County Air Business Center Sdc

Carroll County Air Business Center



PLANT SCHEDULE

Key	Botanical/Common Names	Size	Root	Quanity
Flowering Cherry	Prunus Kwanzan/Flowering Cherry	5'to 6'	B & B	7
Dark Green Arborvitae	Thuja Occidentalis Nigra/ Dark Green Arborvitae	4'to 5'	B & B	28
Andorra Juniper	Juniper Communis Depressa Plumosa Compacta/Andorra Juniper	18"t24"	B & B	16
White Pine	Pinus Strobus/White Pine	4'to 5'	B & B	41
Japanese Black Pine	Pinus Thunbergi/Black Pine	3'to 4'	B & B	6
Red Maple	Acer Platanoides Schwedleri Nigra/Red Maple	8'to10'	B & B	2



LANDSCAPE PLAN
LOT F-1

Drafting	DATE	REVISIONS
Check		
Design		
Check		

KIDDE CONSULTANTS, INC.
ENGINEERS • SURVEYORS • PLANNERS
439 EAST MAIN STREET, WESTMINSTER, MARYLAND 21157 301-876-2017

CARROLL COUNTY AIR BUSINESS CENTER
WEST SIDE OF BUSINESS PARKWAY SOUTH
RECORDED IN PB. 27, P. 191
7TH ELECTION DISTRICT, CARROLL COUNTY MD.

SHEET	DATE	JOB NUMBER
6 OF 6	August 5, 1986	1586210
	SCALE 1" = 30'	

#2247

2-12-B 36