

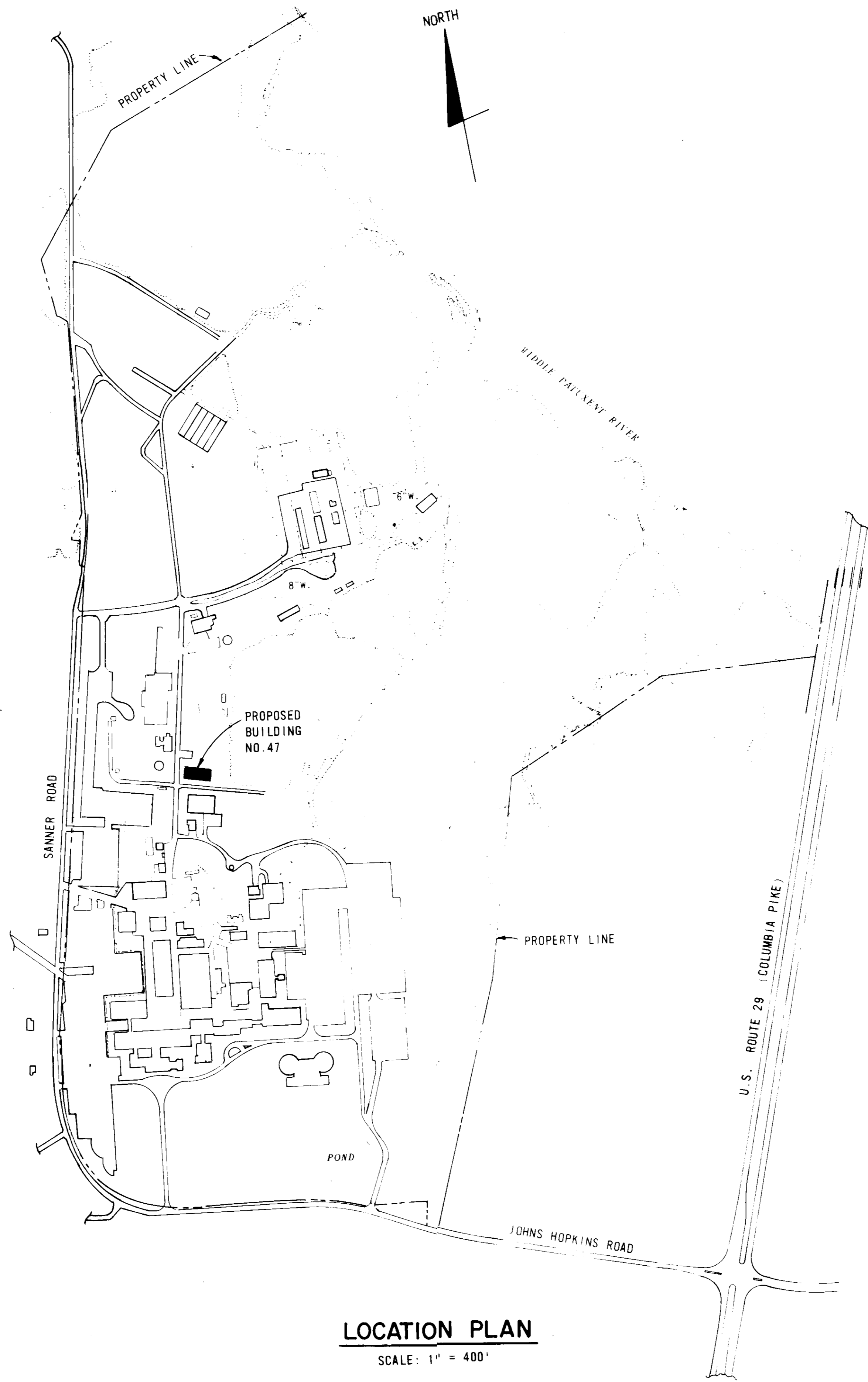
NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ELEVATIONS SHOWN ARE BASED ON THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY DATUM. JHU-APL-DATUM - 0.94' = HOWARD COUNTY DATUM.
3. THE CONTRACTOR SHALL CALL MISS UTILITY (301) 559-0100. FIVE DAYS PRIOR TO THE START OF CONSTRUCTION.
4. POLY FILTER X FILTER CLOTH BLANKET OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP RAP.
5. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN AN UNINTERRUPTED SERVICE. ANY DAMAGE BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
6. ACCESS TO THE CONSTRUCTION AREA THROUGH THE SECURE AREA OF THE APPLIED PHYSICS LABORATORY (WITH THE FENCED ENCLOSURE) MUST BE ARRANGED IN ADVANCE BY CONTACTING THE LABORATORY SECURITY OFFICE (391) 953-7100.
7. SECURITY MUST BE MAINTAINED WITHIN THE EXISTING FENCED AREA. ALL REQUIRED FENCE CONSTRUCTION AND RELOCATION SHALL BE BY THE JOHN HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY. HOWEVER THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH JHU APL AS TO WHEN SUCH WORK IS REQUIRED.
8. LANDSCAPING SHALL BE BY JHU-APL.
9. THE CONTRACTOR SHALL CONTACT MR. ARTHUR STUCKI, PLANT ENGINEER, (301) 953-7100 AT LEAST 5 WORKING DAYS PRIOR TO COMMENCING ANY WORK OR SHUTTING DOWN ANY UTILITIES.
10. THE CONTRACTOR SHALL SHUTDOWN AND TIE-IN TO THE EXISTING WATER SYSTEM ONLY AFTER NORMAL WORKING HOURS AT JHU-APL. WORK SHALL BE SCHEDULED ACCORDINGLY. NORMAL WORKING HOURS ARE 8:30 AM TO 5:00 PM, MONDAY THROUGH FRIDAY.
11. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
12. ALL WATER MAINS SHALL BE DUCTILE IRON PIPE CLASS 52.
13. ALL SANITARY SEWER MAINS SHALL BE HOWARD COUNTY SCHEDULE 35 P.V.C. UNLESS OTHERWISE NOTED.
14. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK 792-2630.
15. TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3 1/2 FEET OF COVER UNLESS OTHERWISE NOTED.
16. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR THE DRAWINGS.
17. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
18. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
19. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
20. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
21. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

SITE DATA

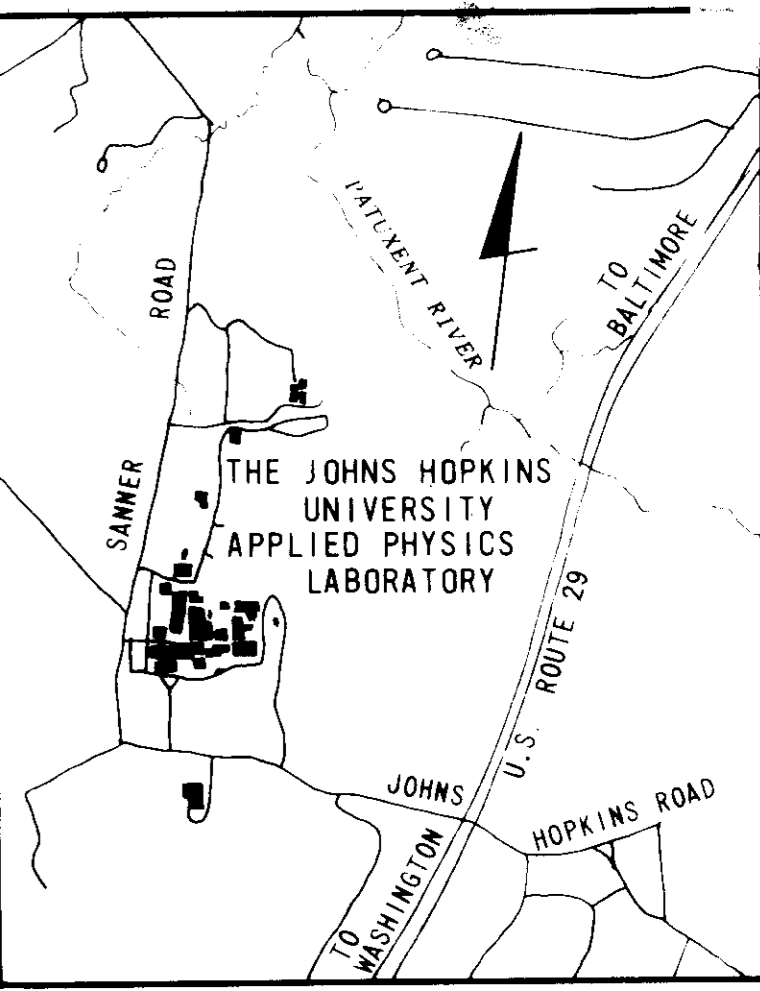
1. ZONING RURAL, R.
 2. SITE AREA 0.5 AC.
 3. BUILDING FLOOR AREA 8640 SF.
 4. ACREAGE OF ENTIRE PROPERTY 366 AC.
 5. EXISTING BUILDING COVERAGE 14.3 AC. = 3.92%
 6. PROPOSED BUILDING COVERAGE 14.5 AC. = 3.96%
 7. MAXIMUM NUMBER OF EMPLOYEES (TO BE RELOCATED FROM EXISTING BUILDINGS ON SITE) IN THE PROPOSED BUILDING * 30
 8. TOTAL NUMBER OF EXISTING EMPLOYEES/ PERSONNEL ON THE ENTIRE SITE 3100
 9. TOTAL NUMBER OF PARKING SPACES REQUIRED 2258
 10. TOTAL NUMBER PARKING SPACES PROVIDED 2809
- EXISTING SPACES 2809
PROPOSED SPACES 0

* NOTE: FOR PROPOSED BUILDING 47, NO ADDITIONAL NEW EMPLOYEES ARE REQUIRED. ALL EMPLOYEES FOR PROPOSED BUILDING 47 ARE TO BE RELOCATED FROM EXISTING BUILDINGS ON-SITE.



LOCATION PLAN

SCALE: 1" = 400'



VICINITY MAP

SCALE: 1" = 2000'

SHEET INDEX

1. COVER SHEET
2. SITE PLAN
3. PROFILES, DETAILS
4. SEDIMENT CONTROL PLAN

ADDRESS CHART					
PARCEL NUMBER	STREET ADDRESS				
P 123	11100 JOHNS HOPKINS ROAD				
SUBDIVISION NAME J. H. U. APPLIED PHYSICS LAB.			SECT./AREA N/A	LOT/PARCEL PARCEL 123	
PLAT# OR L/F 234/304	BLOCK# 16	ZONE R	TAX/ZONE MAP 41	ELEC. DIST. 5TH.	CENSUS TR. 6051
WATER CODE E-21			SEWER CODE 6480000		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS					
DIRECTOR: <i>John F. Neuma</i>			DATE: 4-14-87		
CHIEF, BUREAU OF ENGINEERING: <i>[Signature]</i> DATE: 4-14-87					
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT					
COUNTY HEALTH OFFICER: <i>[Signature]</i>			DATE: 4-15-87		
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING					
PLANNING DIRECTOR: <i>[Signature]</i>			DATE: 4-16-87		
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: <i>[Signature]</i> DATE: 4-16-87					

DIVISION OF ZONING
HOWARD COUNTY
DATE: 4-1-87
[Signature]

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
2315 SAINT PAUL STREET, BALTIMORE, MARYLAND 21218



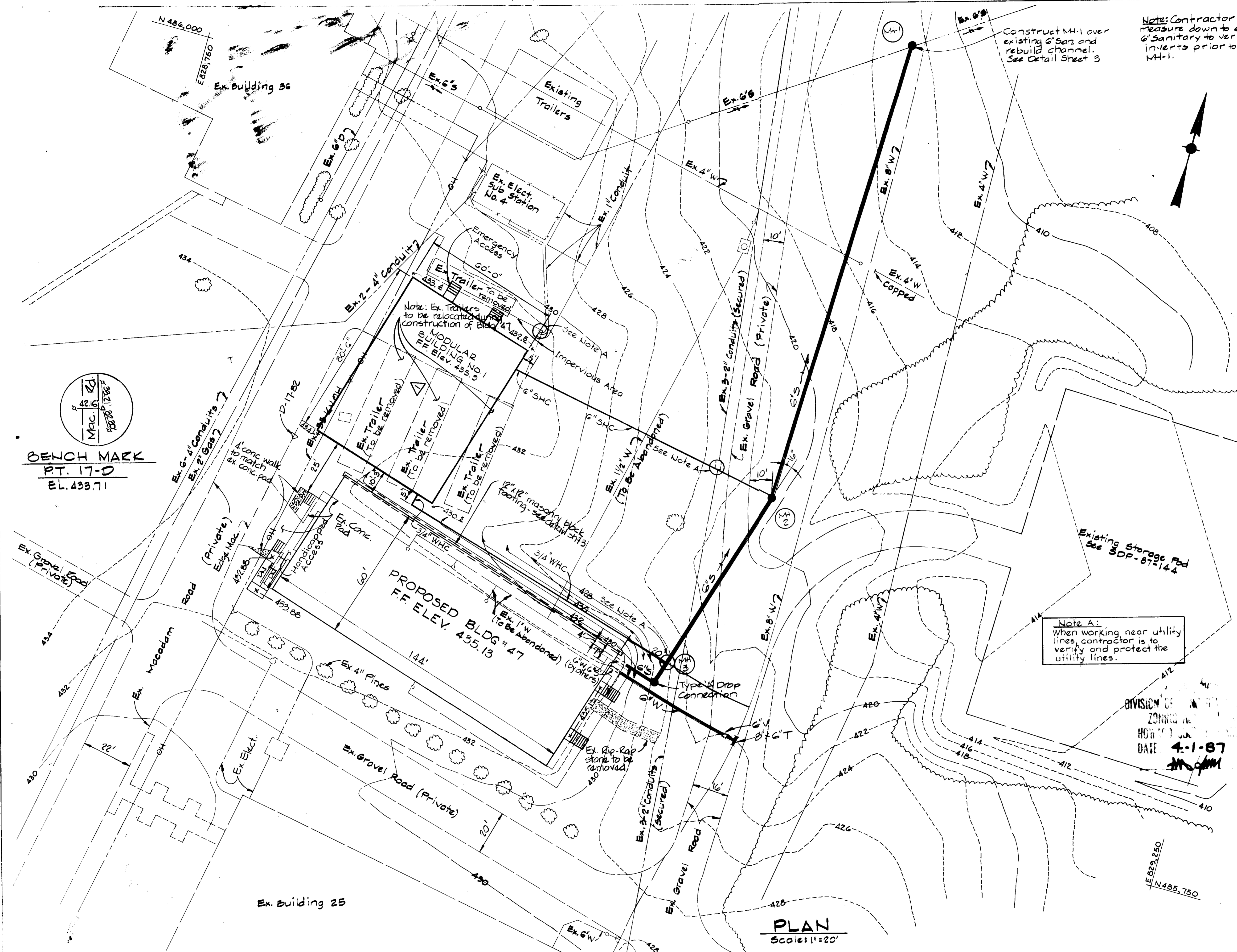
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
JOHNS HOPKINS ROAD HOWARD COUNTY, MARYLAND
APPROVED FOR THE UNIVERSITY BY: *[Signature]*
DATE: 3/5/87 TITLE: Plant Engineer

BUILDING 47
"Building 47 addition to SDP-87-144"
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
11100 JOHNS HOPKINS ROAD LAUREL, MARYLAND 20707

COVER SHEET
FIFTH ELECTION DISTRICT
TAX MAP 41
HOWARD COUNTY, MARYLAND
PARCEL 123

REVISIONS	SCALE: AS SHOWN	DRAWING
	SHEET NO. 1	1
	OF 4	
	DATE: 3-4-87	

SDP-87-168



Note: Contractor shall measure down to existing 6\"/>

- WATER NOTES:**
- All pipe joints shall be bonded to insure electrical continuity. Bonding may be accomplished either with shop welded copper terminal strips and copper jumper strips with corrosion resistant bolts, or exothermic welding of copper wire in the field.
 - All bonding between joints for pipe fittings, valves and specials shall be tested for electrical continuity. Each joint will be inspected and resistance tested prior to coating and backfilling. No resistance will be allowed across any joint.
 - All bonded joints shall be coated with an approved coating.

SANITARY SEWER SCHEDULE						
MH	TYPE	LOCATION	TOP. EL.	IN. IN.	IN. OUT.	REMARKS
1	TYPE 'A' DROP MH	See Plan	428.00	423.27	419.52	5 1.32
2	STD 4'-0" Precast	See Plan	420.50	414.72	414.72	G 5.12
3	STD 4'-0" Precast	See Plan	412.70	406.32	406.32	G 5.12

LEGEND

Existing Contour	--- 428 ---
Proposed Contour	— 428 —
Existing Woods Line	~~~~~
Existing Water, Sewer	Ex. 8" W, Ex. 6" S
Proposed Water, Sewer	8" W, 6" S
Proposed Spot Elevation	428x5
Existing Overhead Electric	T—OH—T
Existing Underground Electric	— — — — —
Existing Gas Line	— · — · —

Note A: When working near utility lines, contractor is to verify and protect the utility lines.

DIVISION OF ZONING AND PLANNING
 HONOLULU, HI
 DATE 4-1-87
[Signature]

APPROVED	<i>[Signature]</i>	4-14-87
APPROVED	<i>[Signature]</i>	4-14-87
APPROVED	<i>[Signature]</i>	4-15-87
APPROVED	<i>[Signature]</i>	4-16-87
APPROVED	<i>[Signature]</i>	4-16-87

BENCH MARK
 PT. 17-D
 EL. 433.71

PLAN
 Scale: 1"=20'

W. MAN REQUARDI
 ASSOCIATE
 ENGINEERS
 22 SAINT PAUL STREET
 BALTIMORE, MARYLAND



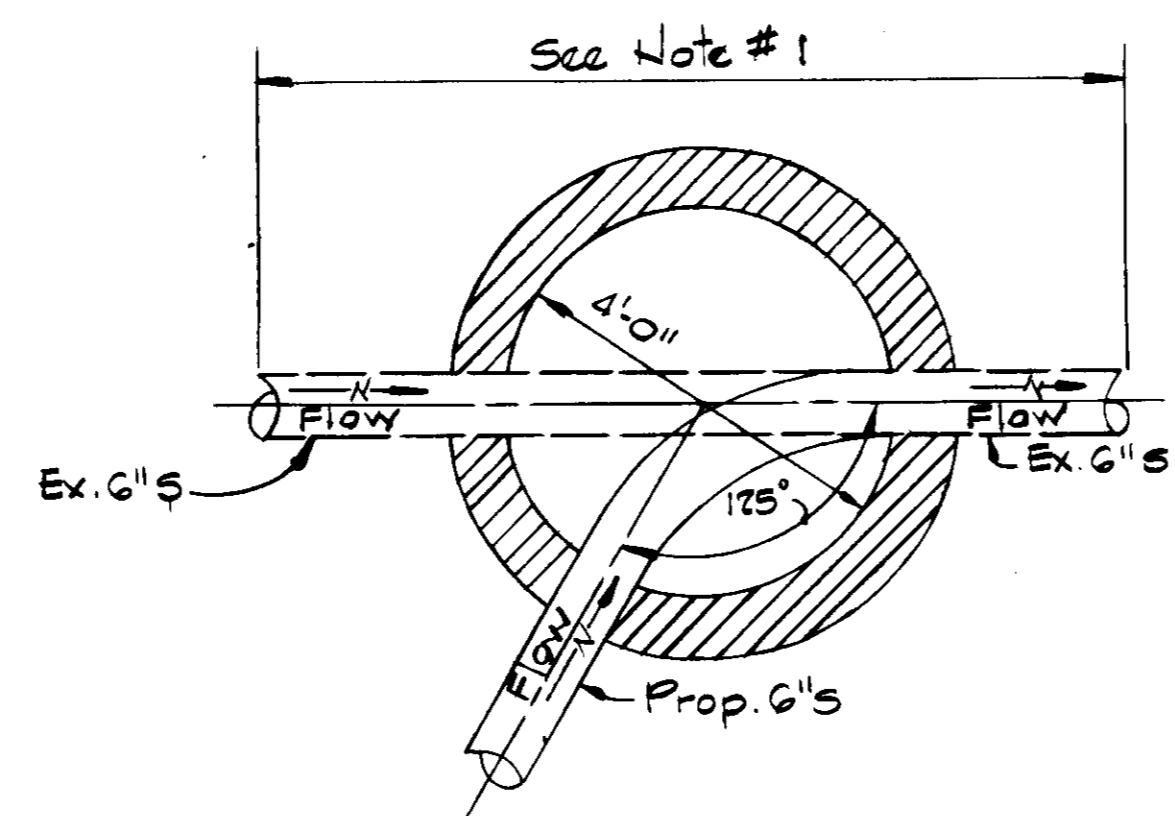
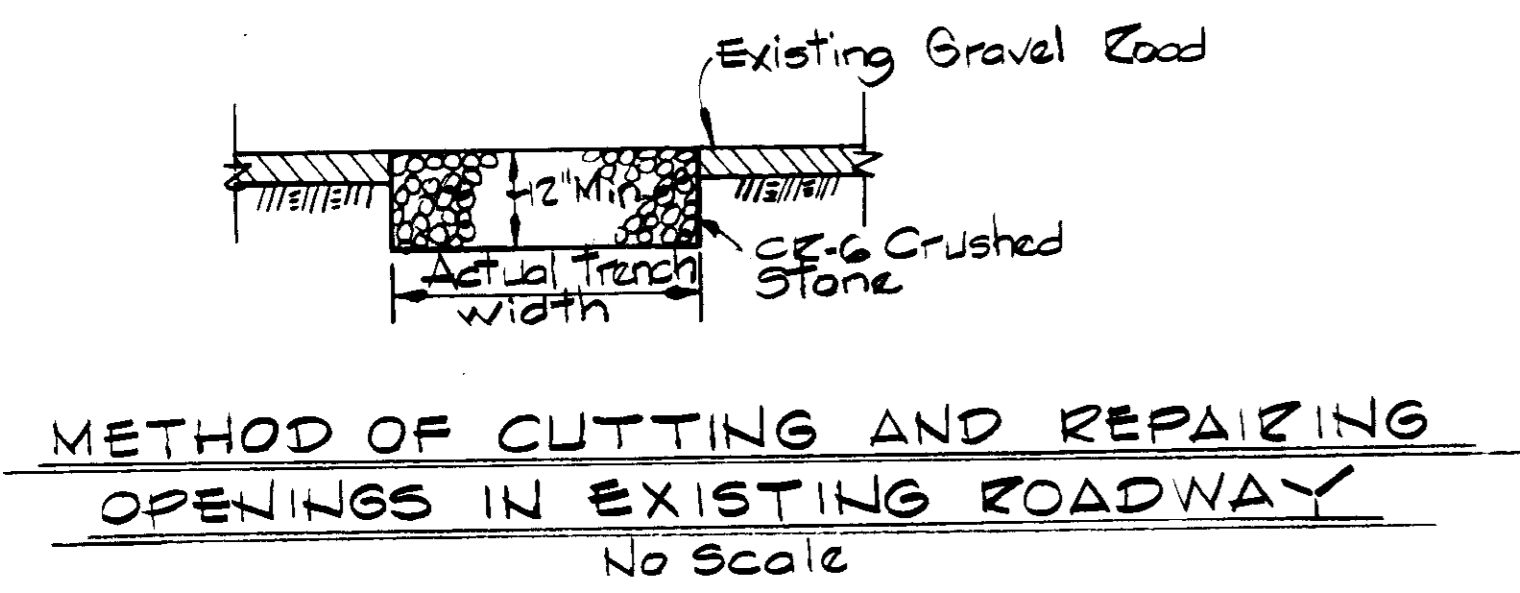
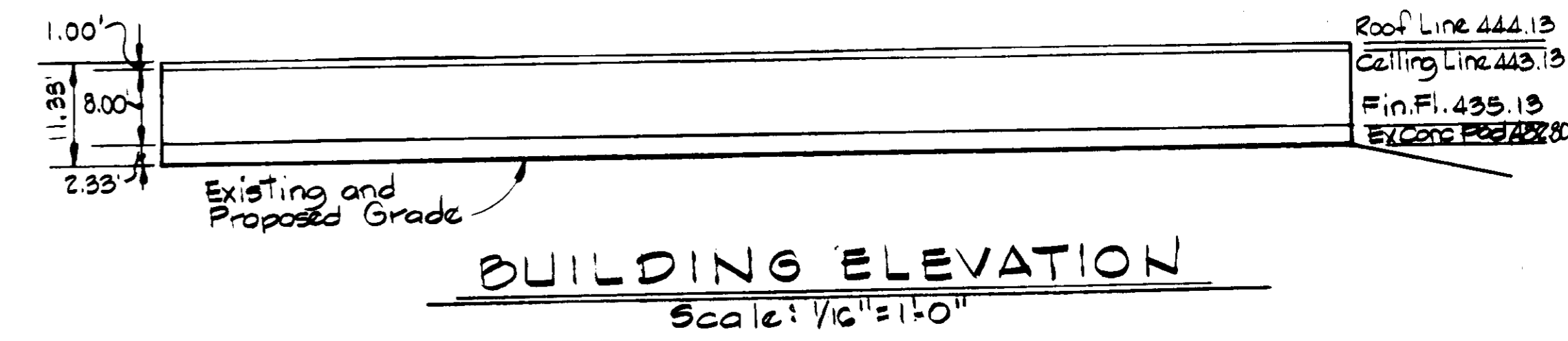
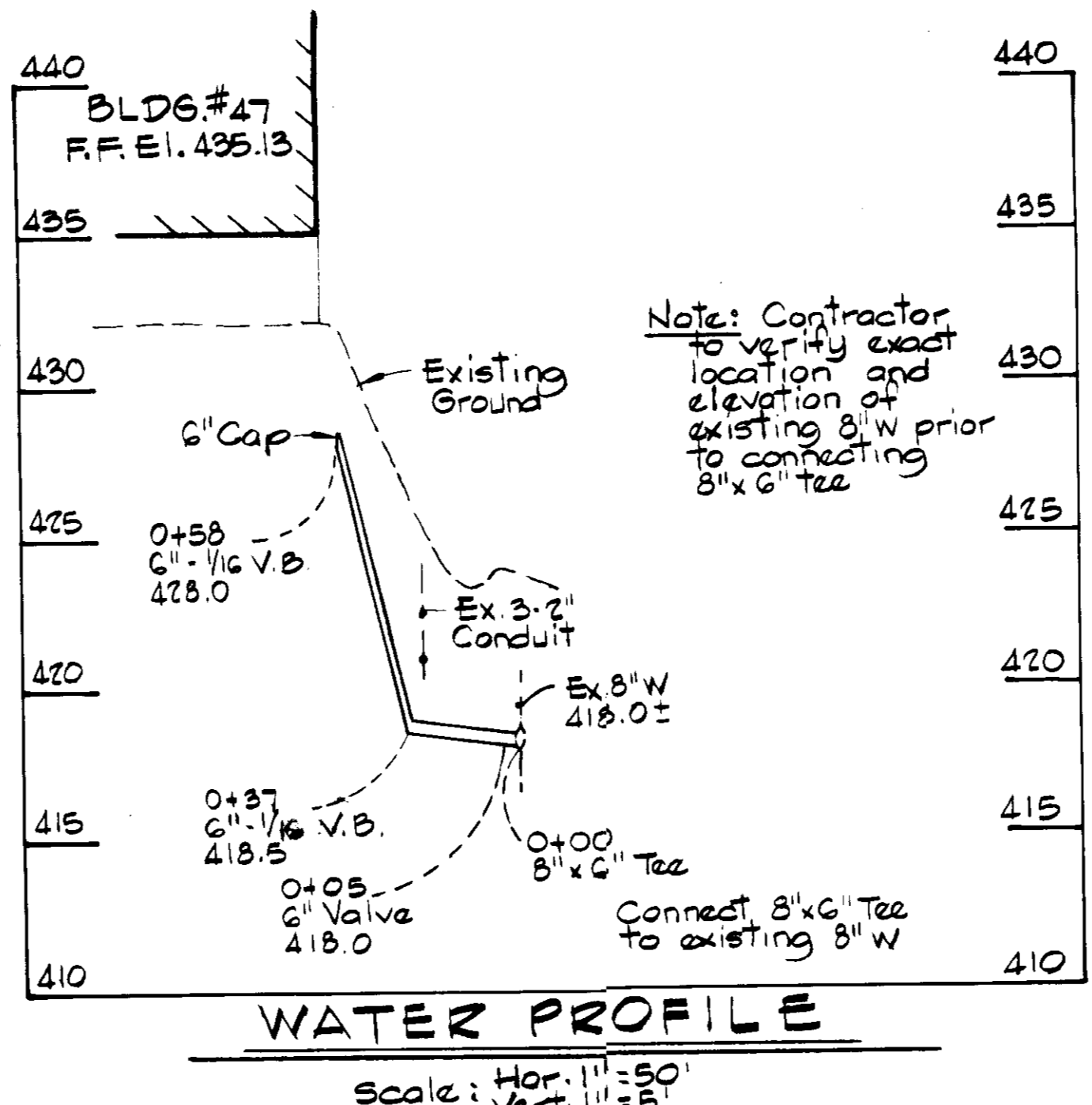
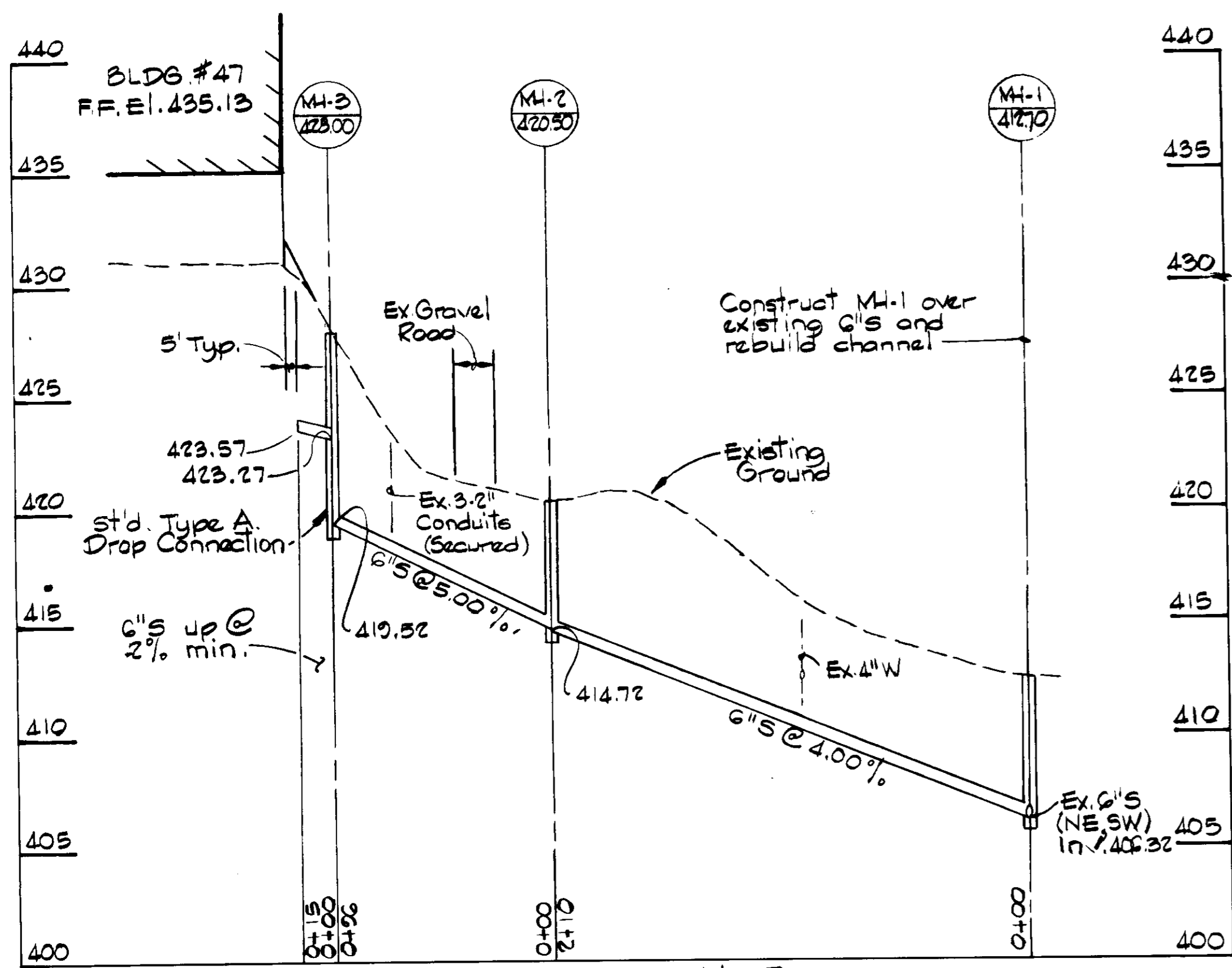
APPLIED PHYSICS LABORATORY
 THE JOHNS HOPKINS UNIVERSITY
 JOHNS HOPKINS ROAD HOWARD COUNTY, MARYLAND
 APPROVED FOR THE UNIVERSITY BY
[Signature]
 Plant Engineer
 3/5/87

BUILDING 47
 "Building 47 addition to SDP-87-144"
 THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

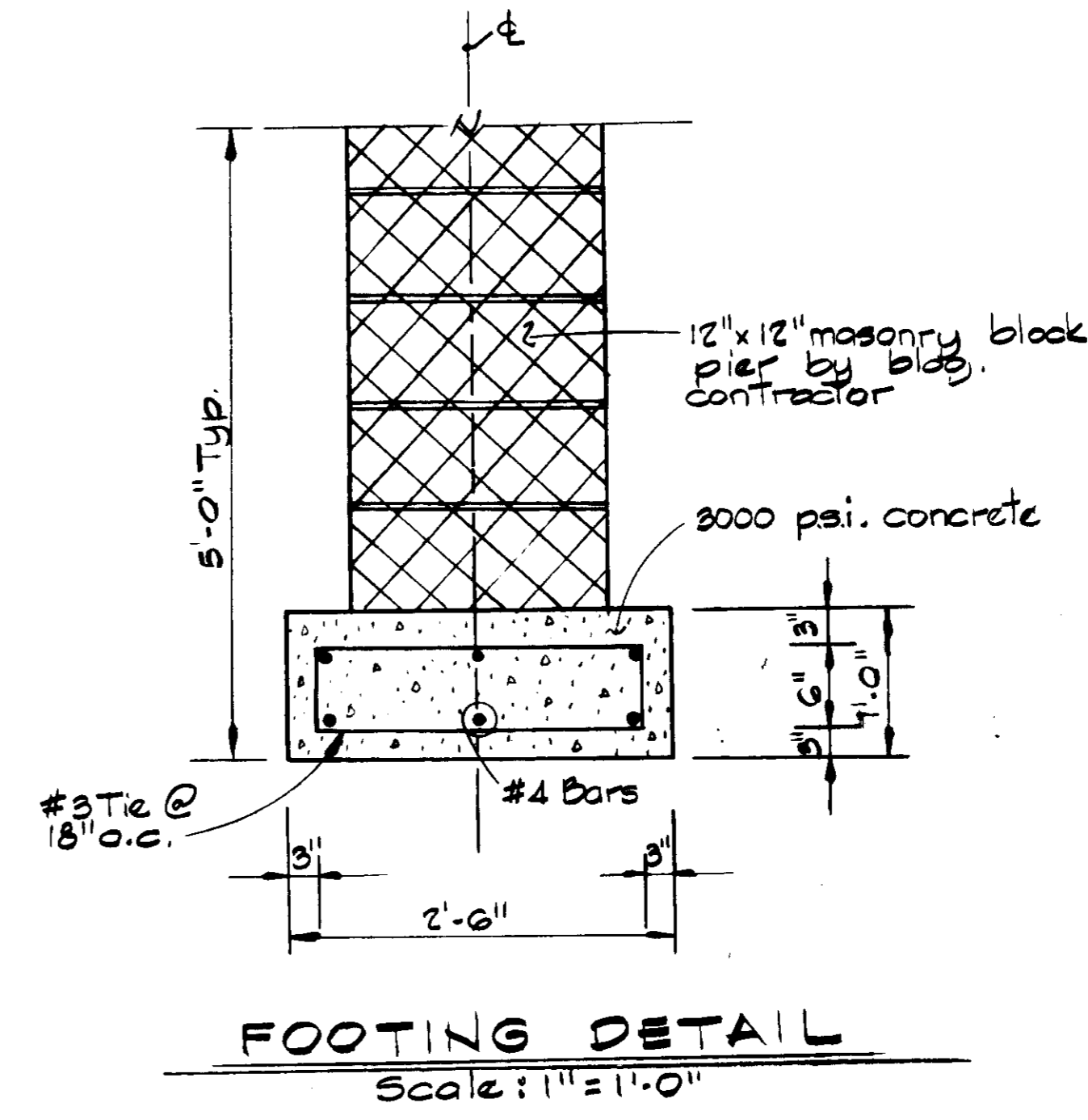
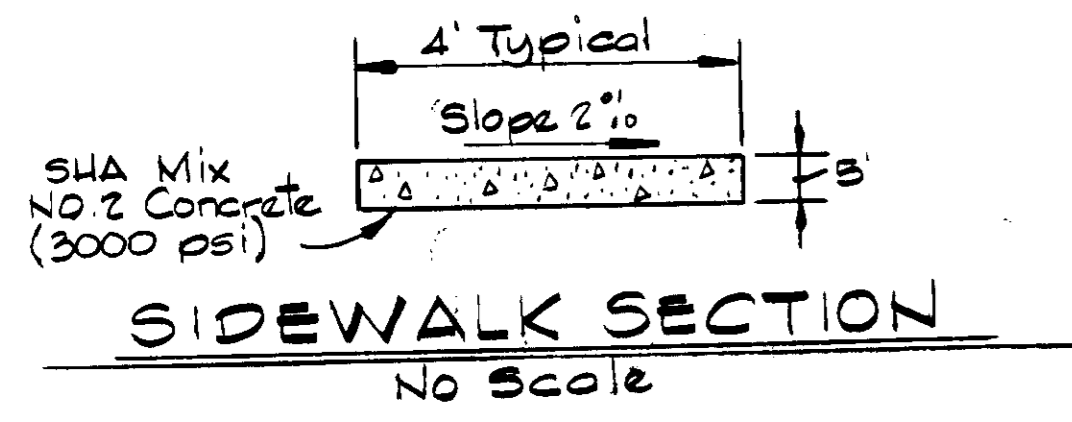
SITE PLAN

REVISIONS
 Addition of Modular Bldg. 4/15/87

SCALE: 1"=20'
 SHEET NO. 2 OF 4
 DATE: 3/4/87
 SDP-87-108



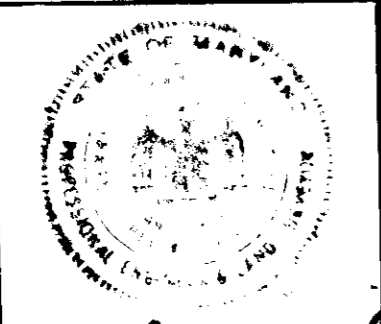
- Notes:**
1. Remove existing 6" sewer within 2' min. each side of proposed manhole 1.
 2. Construct manhole 1, and build channel to meet existing 6" sewer.



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-1-87

APPROVE:	DATE
<i>George Neumy</i>	4-14-87
APPROVE:	DATE
<i>Joseph Ogden</i>	4-15-87
APPROVE:	DATE
<i>Thomas A. Kinnick</i>	4-16-87
<i>John W. Murchison</i>	4-16-87

HITMAN REQUARDI AND ASSOCIATES ENGINEERS
2215 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

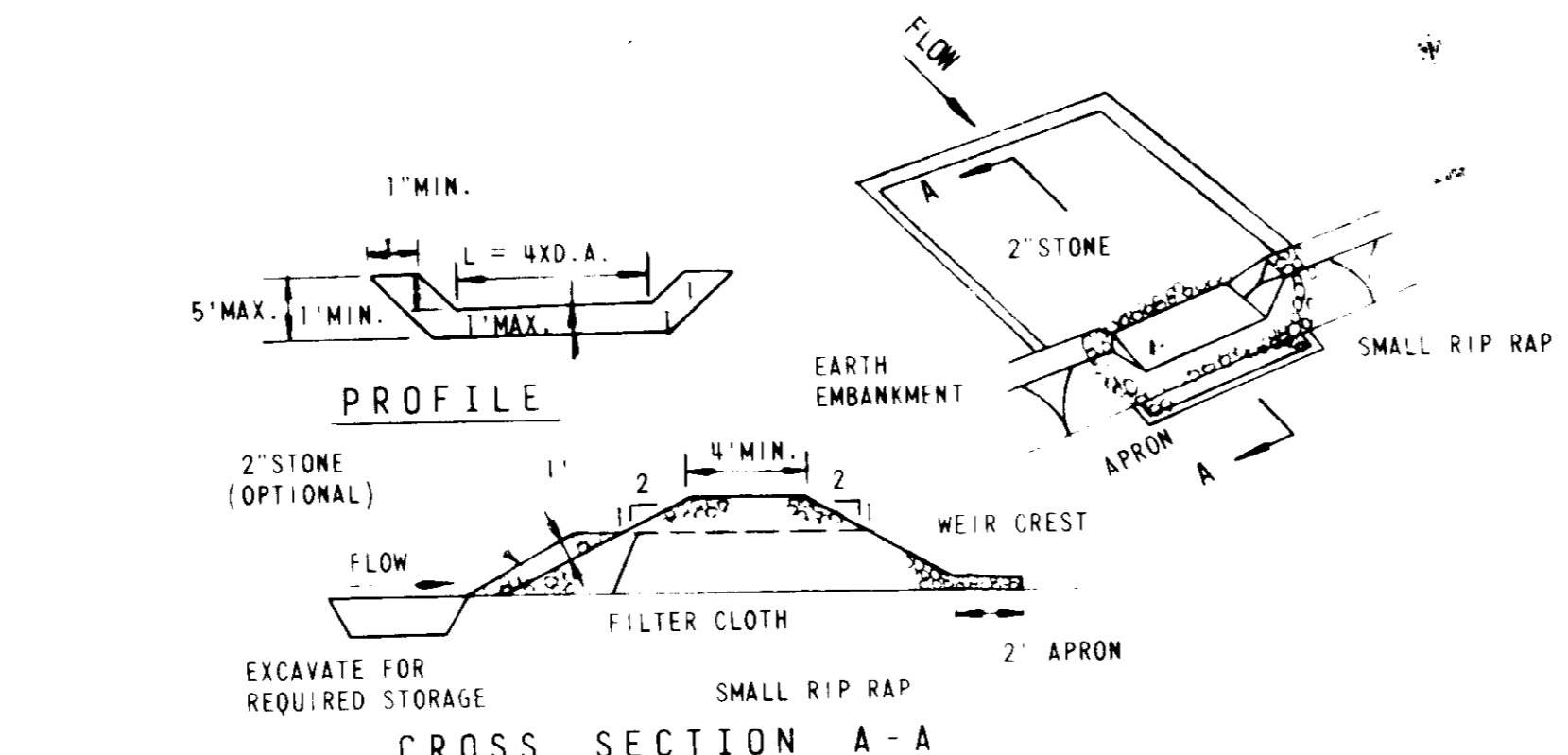
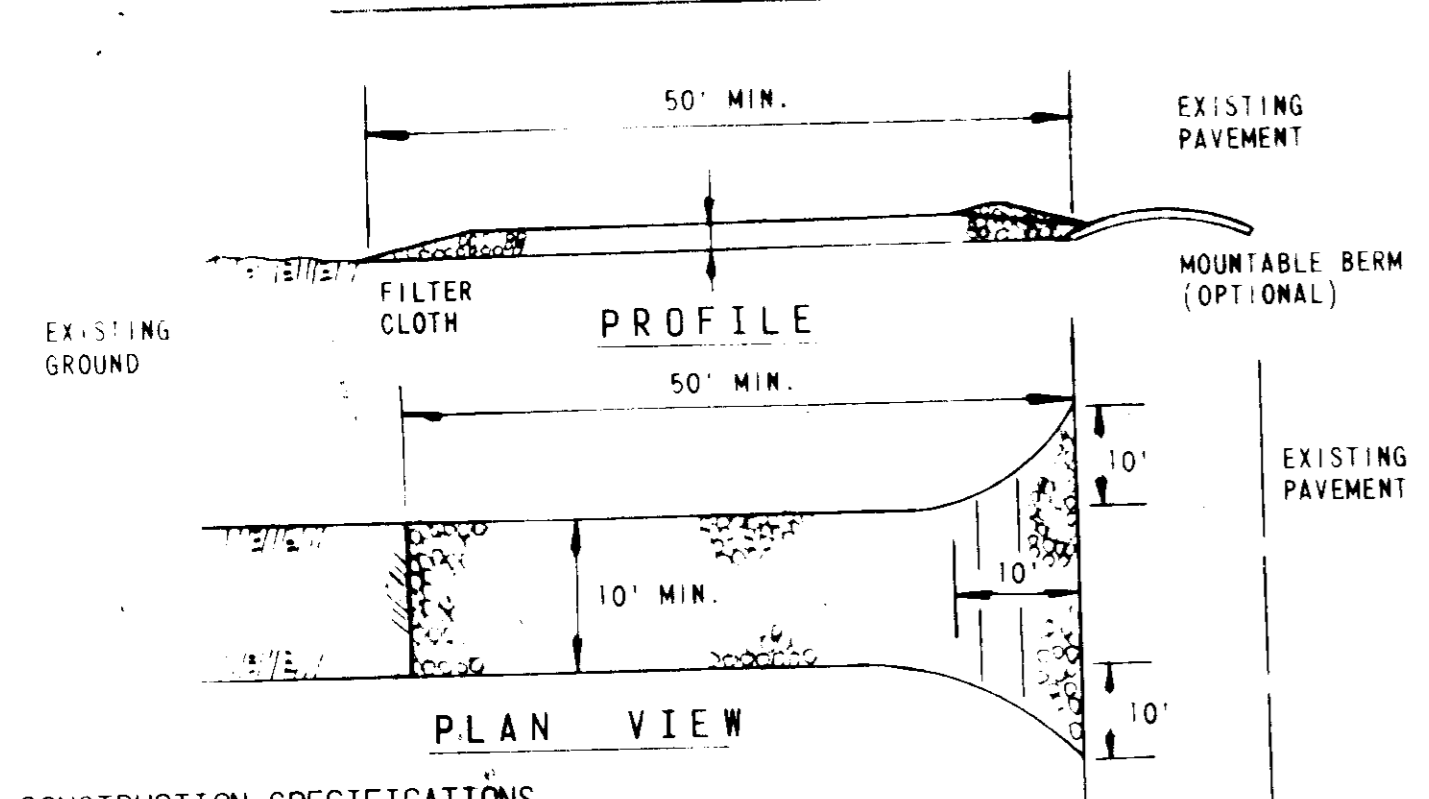


APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
JOHNS HOPKINS ROAD HOWARD COUNTY MARYLAND
APPROVED FOR THE UNIVERSITY BY
Thomas A. Kinnick
3/5/87
Plant Engineer

BUILDING 47
"Building 47 addition to SDP-87-144"
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
11100 JOHNS HOPKINS ROAD
LAUREL, MARYLAND 20707

PROFILES, DETAILS

REVISIONS	SCALE	DRAWING
	1" = 1'-0"	3
		OF 4
	DATE 3/4/87	
	SDP-87-168	



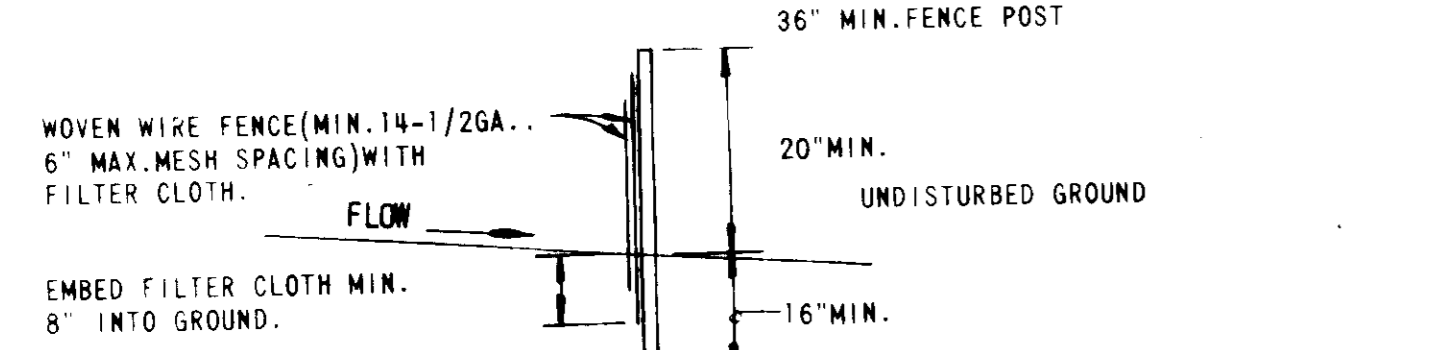
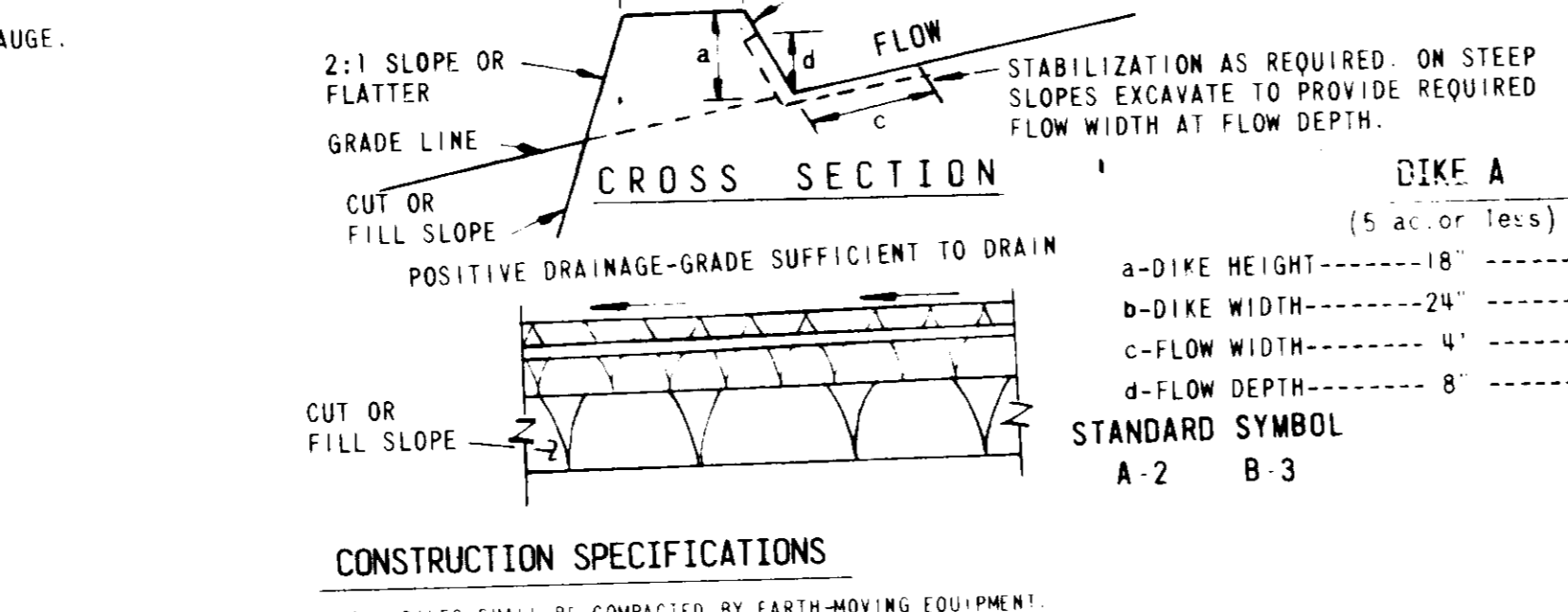
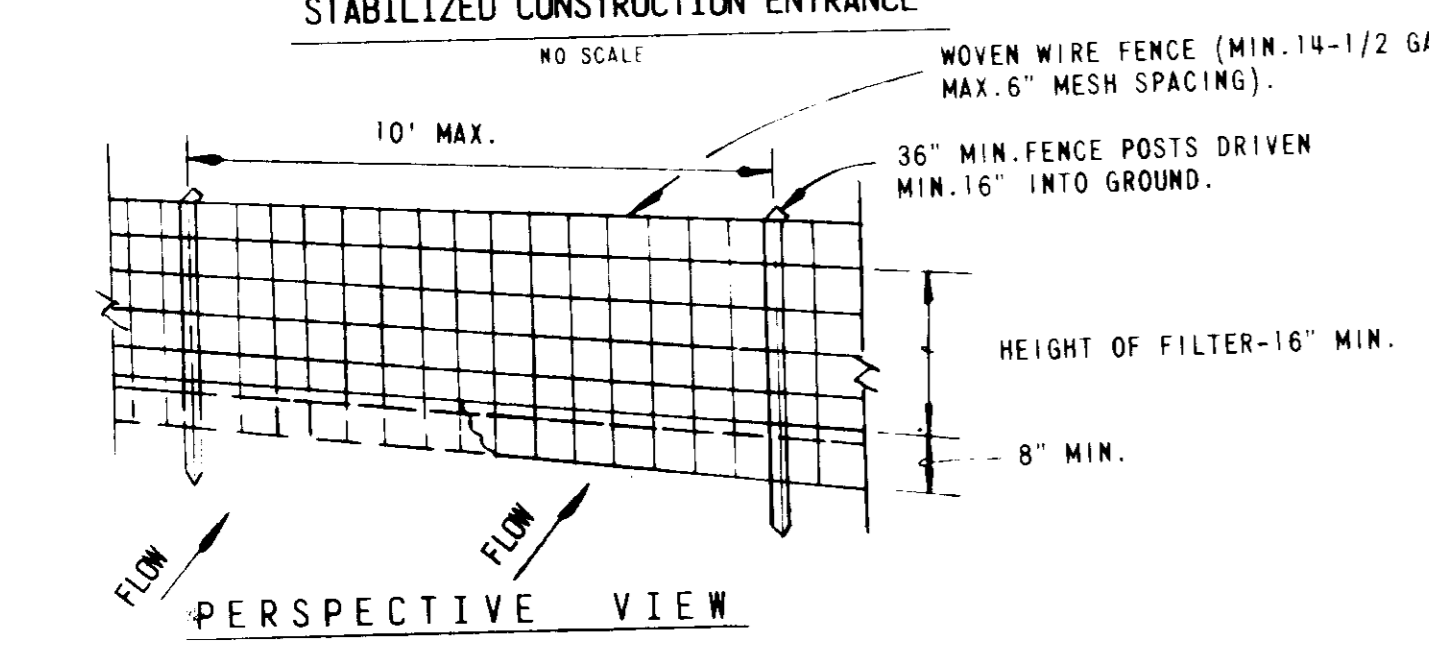
CONSTRUCTION SPECIFICATIONS

- STONE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. LENGTH AS REQUIRED, BUT NOT LESS THAN 50% EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30" MINIMUM LENGTH WOULD APPLY.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - MINIMUM 1'00" MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OF DEBRIS OCCURS.
- INSTALLATION - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING 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, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 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 SOIL AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATIONS FOR ST-V

AREA UNDER EMBANKMENT SHALL BE GRADED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TAMPING WITH EQUIPMENT WHICH IS BEING CONSTRUCTED. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

THE STONE USED IN THE OUTLET SHALL BE SMALL RIP-RAP AS LONG WITH A THICKNESS OF 2 INCHES. SHALL BE PLACED ON THE UP-UPGRADE SIDE OF THE SMALL RIP-RAP OR EMBANKED FILTER CLOTH IN THE RIP-RAP. SEDIMENT SHALL BE REMOVED AND REPAIRED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. THE STRUCTURE SHALL BE INSPECTED FOR SUCH A MANNER THAN EROSION AND WATER POLLUTION IS MINIMIZED. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD 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. 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.
- 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 CHECK BELOW.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WEAVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WEAVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND JOINTED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE FENCE.

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 EXCELSTOR, 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 WATER ALTS.

SILT FENCE

PERMANENT SEEDING NOTES

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

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (100 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. MARKED ON DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (11.4 LBS./1000 SQ. FT.) OF KENTUCKY 31 FALLOUSE (OR 2 LBS. PER ACRE (0.05 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROJECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING; OPTION (2) USE SOD; OPTION (3) SEED WITH 60 LBS. PER ACRE KENTUCKY 31 FALLOUSE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROOTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (15 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES 8:1 OR HIGHER USE 3 1/2 GALLONS PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

TEMPORARY SEEDING NOTES

SOILS UNGRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

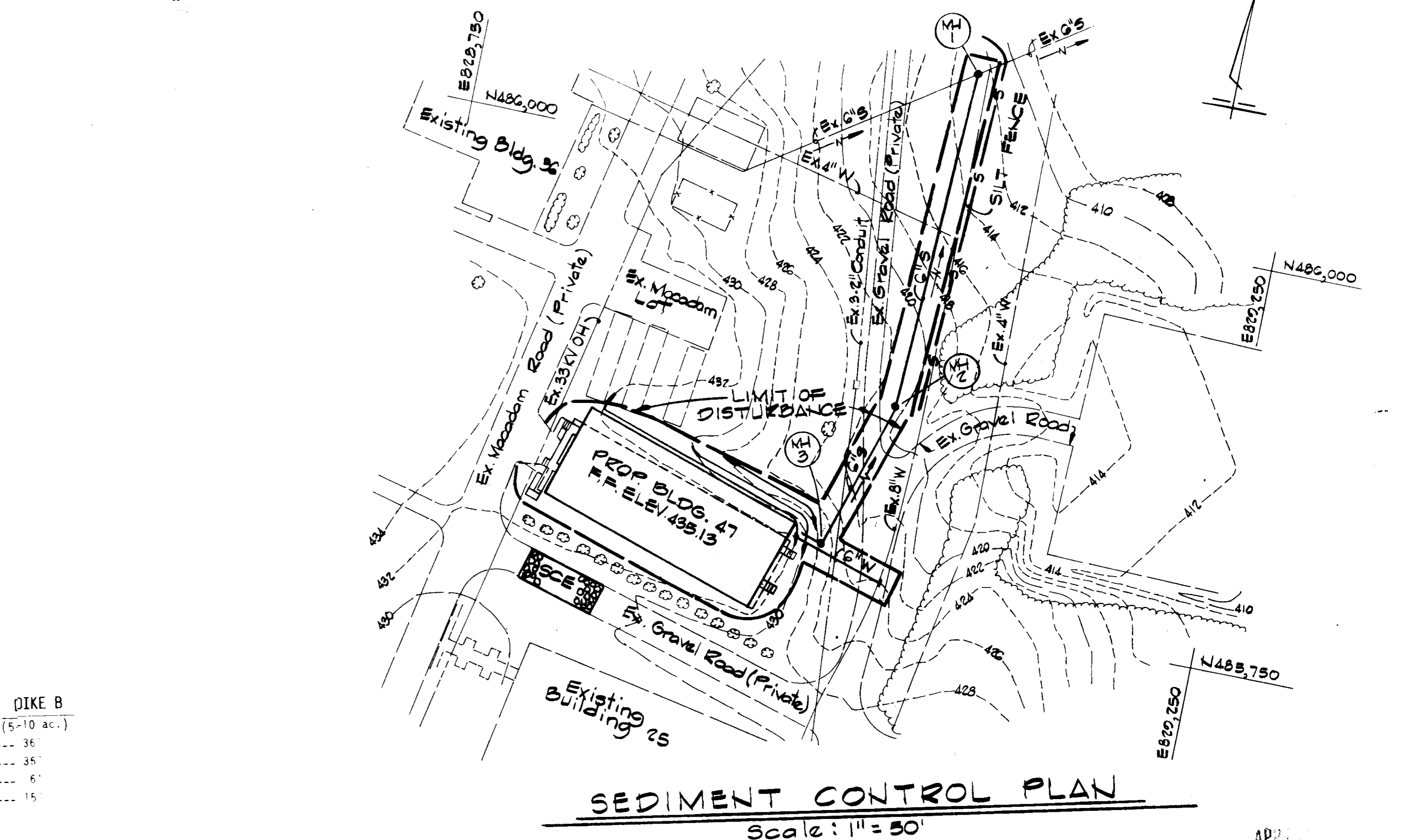
SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) AND 2 TONS PER ACRE OF SEEDING FOR PERIOD MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15. SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (1.2 LBS./1000 SQ. FT.) FROM PERIOD FROM MAY 1 THRU AUGUST 14. SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.05 LBS./1000 SQ. FT.) FROM PERIOD NOVEMBER 16 THRU FEBRUARY 28. PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOD.

EARTH DIKE

NO SCALE

TEMPORARY SEEDING NOTES Continued

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROOTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (15 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES 8:1 OR HIGHER USE 3 1/2 GALLONS PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.



SEDIMENT CONTROL PLAN

Scale: 1" = 50'

SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (892-2437).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS OF ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 1:1. 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPPING BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOLUME CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL "FORM DRAINAGE".
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEE 500 (EXC-24)). TEMPORARY STABILIZATION (SEE 500) AND MULCHING (SEE 500) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES CAN NOT ALL BE PROPERLY IMPLEMENTED AND ESTABLISHMENT OF VEGETATION IS NOT POSSIBLE.
- ALL SEDIMENT CONTROL STRUCTURES SHALL REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE PROJECT. REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEE 500 (EXC-24)). TEMPORARY STABILIZATION (SEE 500) AND MULCHING (SEE 500) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES CAN NOT ALL BE PROPERLY IMPLEMENTED AND ESTABLISHMENT OF VEGETATION IS NOT POSSIBLE.
- ALL SEDIMENT CONTROL STRUCTURES SHALL REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE PROJECT. REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

RESPONSIBLE PERSONNEL CERTIFICATION

I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

APPROVED: *Stephen L. Fisher* 4-10-87
HOWARD S.C.D. DATE

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

SIGNATURE: *J. Helmutz* DATE: 4-10-87
US SOIL CONSERVATION SERVICE

CERTIFICATION BY THE ENGINEER

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

APPROVED: *John F. Neumy* 4-14-87
DATE

APPROVED: *John F. Neumy* 4-14-87
DATE

CERTIFICATION BY THE DEVELOPER

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY.

APPROVED: *John W. Macchiarini* 4-16-87
DATE

APPROVED: *John W. Macchiarini* 4-16-87
DATE

SEDIMENT CONTROL PLAN AND DETAILS

REVISION: _____

SCALE: AS SHOWN

SHEET NO. 4 OF 4

DATE: 3/4/87

SDP-87-168

WHITMAN REQUARDT AND ASSOCIATES ENGINEERS

275 SAINT PAUL STREET BALTIMORE MARYLAND 21218

APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY

JOHNS HOPKINS ROAD HOWARD COUNTY MARYLAND

APPROVED FOR THE UNIVERSITY BY: *John F. Neumy* 3/5/87
Plant Engineer

BUILDING 47

"Building 47 addition to SDP-87-144"

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

1100 JOHNS HOPKINS ROAD BALTIMORE, MARYLAND 21205