

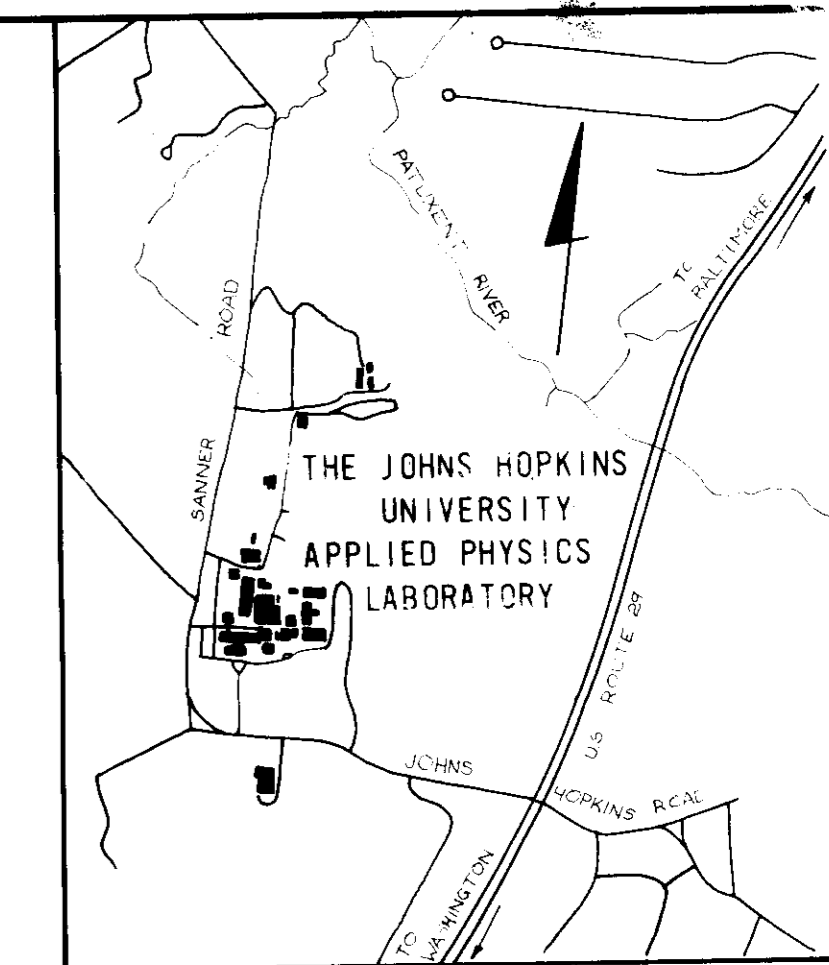
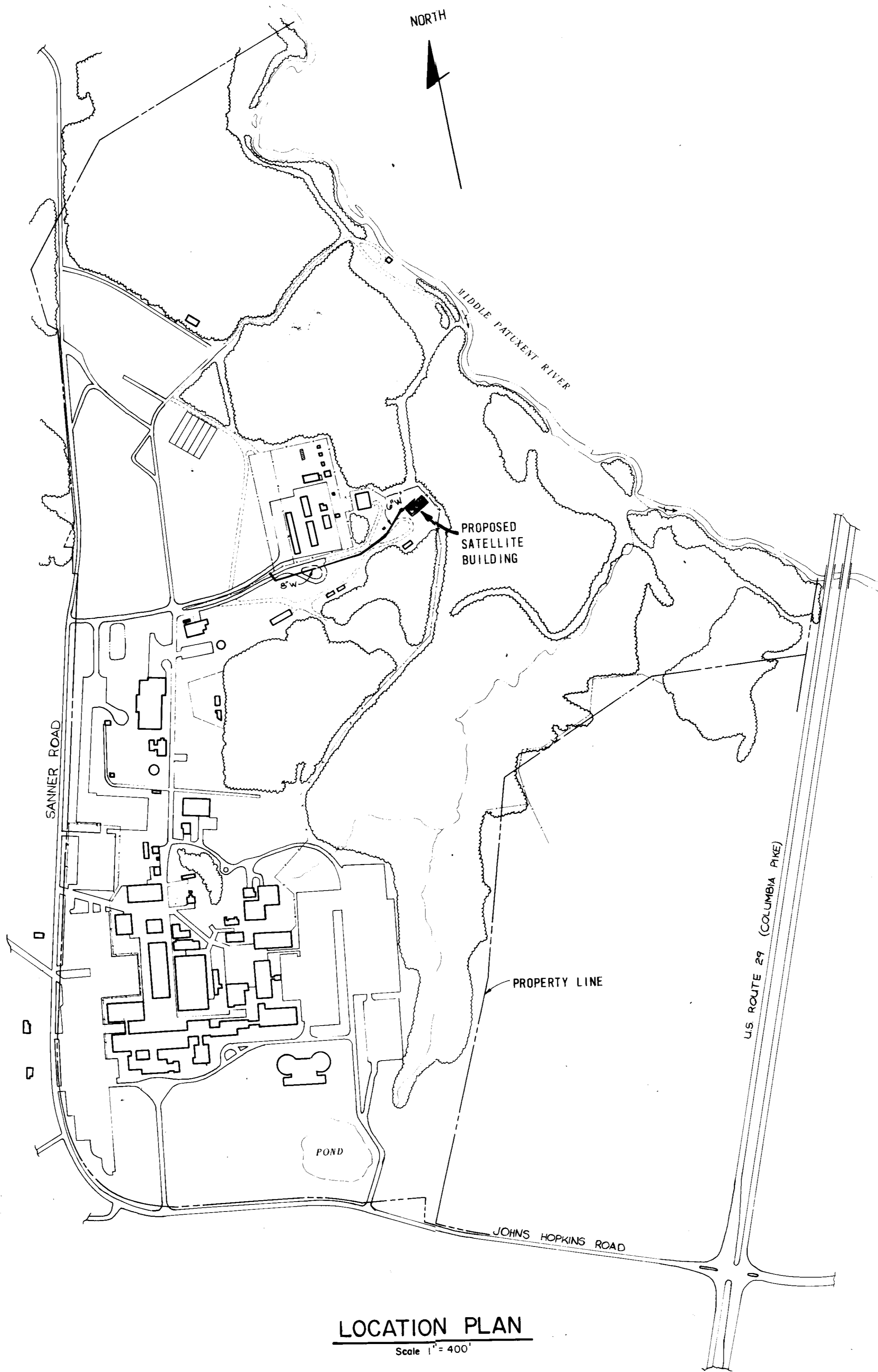
GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ELEVATIONS SHOWN ARE BASED ON THE JOHN'S HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY DATUM. JHU-APL-DATUM - 0.34' = 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 (WITHIN 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'S 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, AT 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 ON 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 2.1 AC.
3. BUILDING FLOOR AREA 6250 SF.
4. ACREAGE OF ENTIRE PROPERTY 366 AC.
5. EXISTING BUILDING COVERAGE 14.2 AC. = 3.88%
6. PROPOSED BUILDING COVERAGE 14.3 AC. = 3.92%
7. MAXIMUM NUMBER OF EMPLOYEES (TO BE RELOCATED FROM EXISTING BUILDINGS ON SITE) IN THE PROPOSED BUILDING* 6
8. TOTAL NUMBER OF EXISTING EMPLOYEES/ PERSONNEL ON THE ENTIRE SITE 3100
9. TOTAL NUMBER OF EXISTING AND PROPOSED FUTURE EMPLOYEES/PERSONNEL ON THE ENTIRE SITE 3225
10. TOTAL NUMBER OF PARKING SPACES REQUIRED 2258
11. TOTAL NUMBER PARKING SPACES PROVIDED 2809
 EXISTING SPACES 2809
 PROPOSED SPACES 0

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



SHEET INDEX

1. COVER SHEET
2. UTILITY PLAN AND PROFILE
3. GRADING AND UTILITY PLAN
4. DETAILS
5. SEDIMENT CONTROL PLAN

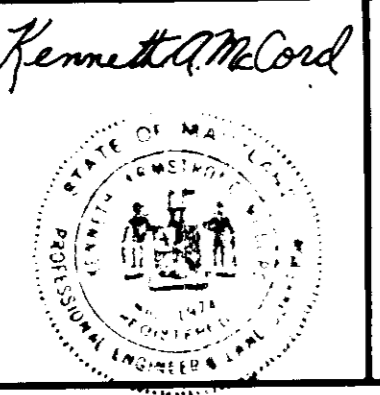
ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
PARCEL 123	11100 JOHN'S HOPKINS ROAD

SUBDIVISION NAME		SECT./AREA	LOT/PARCEL		
J.H.U. APPLIED PHYSICS LAB		N/A	123		
PLAT# OR L/F	BLOCK#	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
234/304	16	R	41	5th	8051
WATER CODE		SEWER CODE			
E-21		648000			

APPROVED
 DIVISION OF LAND
 ZONING AND
 HOWARD COUNTY
 DATE 12-5-86
 [Signature]

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS [Signature] DIRECTOR DATE 2-6-87
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT [Signature] CHIEF, BUREAU OF ENGINEERING DATE 2-5-87
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT [Signature] COUNTY HEALTH OFFICER DATE 2-24-87
APPROVED: HOWARD COUNTY OF PLANNING AND ZONING [Signature] PLANNING DIRECTOR DATE 2-24-87
[Signature] CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE 2-24-87

WHITMAN, REQUARDT AND ASSOCIATES
 2315 Saint Paul Street
 Baltimore, Maryland
 21218



APPLIED PHYSICS LABORATORY
 THE JOHN'S HOPKINS UNIVERSITY
 Johns Hopkins Road Howard County, Maryland
 Approved For The University By: [Signature]
 Date: 11/5/86 Title: Plant Engineer

AN/ MSC-46 SATELLITE COMMUNICATIONS TERMINAL BUILDING
 ADDITION TO SDP-87-07
THE JOHN'S HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
 11100 Johns Hopkins Road
 Laurel, Maryland 20707

COVER SHEET
 Fifth Election District
 Tax Map 41
 Howard County, Md.
 Parcel 123

REVISIONS	SCALE: As Shown	DRAWING
SHEET NO. 1 OF 5		CI
DATE: 11-5-86		

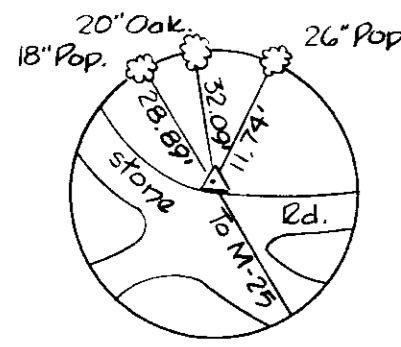
WATER NOTES:

- 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 cathodic 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.

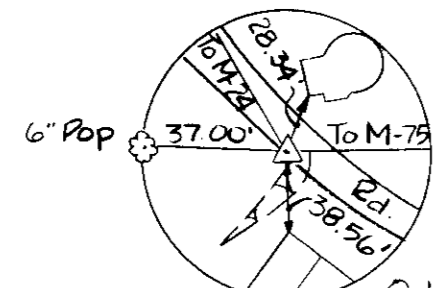
LEGEND

- Existing contour ----- 354
- Proposed contour ----- 354
- Existing woods line [wavy line]
- Proposed woods line [thick black line]
- Existing security fence [x-x-x-x]
- Proposed relocated security fence [x-x-x-x]
- Existing water, sewer [line with 'W' or 'S']
- Proposed water, sewer [line with 'W' or 'S']
- Proposed spot elevation 348 x 5
- Existing overhead electric [T-O-T]
- Existing underground electric [C-C-C]
- Existing gas line [line with 'G']
- Proposed paving [shaded box]

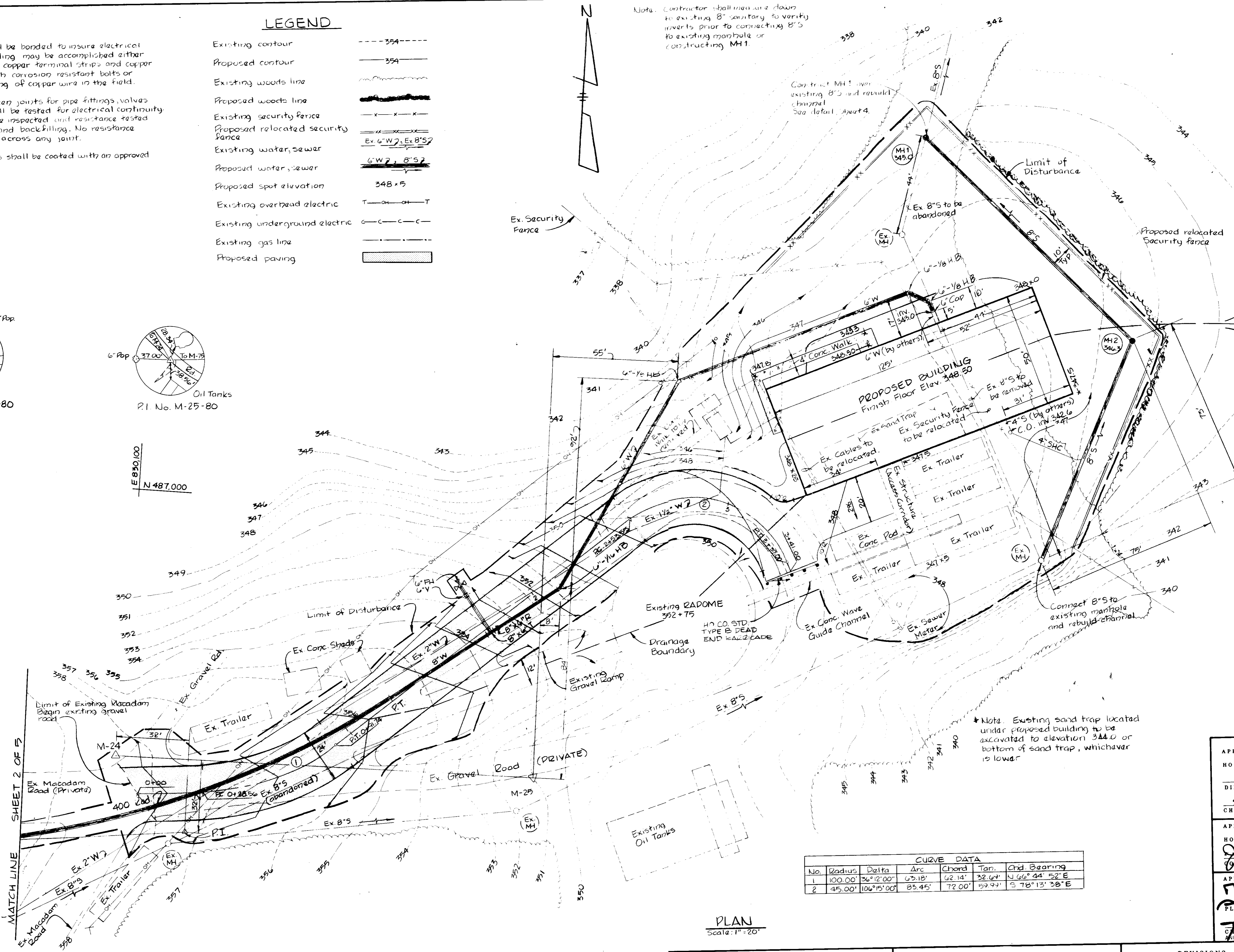
Note: Contractor shall man and down to existing 8" sanitary to verify inverts prior to connecting 8" to existing manhole or constructing MH1.



P.I. No. M-24-80



P.I. No. M-25-80



E 830,600
N 487,200

E 830,600
N 487,000

Note: Proposed Building located on ridge line of two drainage areas. Stormwater runoff from building is proposed to be overland flow. See Stormwater Management request for waiver.

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 12-5-86
[Signature]

*Note: Existing sand trap located under proposed building to be excavated to elevation 344.0 or bottom of sand trap, whichever is lower.

CURVE DATA						
No.	Radius	Delta	Arc	Chord	Tan.	Ord. Bearing
1	100.00'	36°12'00"	63.18'	62.14'	32.67'	N 66°44'52" E
2	45.00'	106°15'00"	85.45'	72.00'	52.92'	S 78°13'38" E

PLAN
Scale: 1"=20'

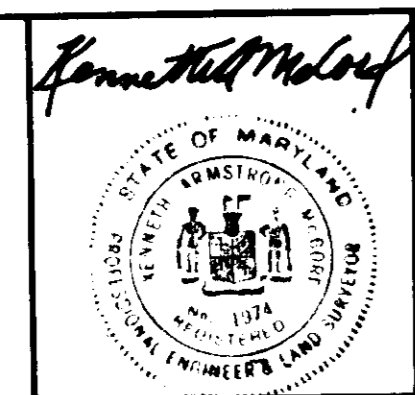
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 2-6-87
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 2-24-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 2-24-87
PLANNING DIRECTOR DATE

[Signature] 2-24-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

WHITMAN, REQUARDT AND ASSOCIATES
2315 Saint Paul Street
Baltimore, Maryland
21218



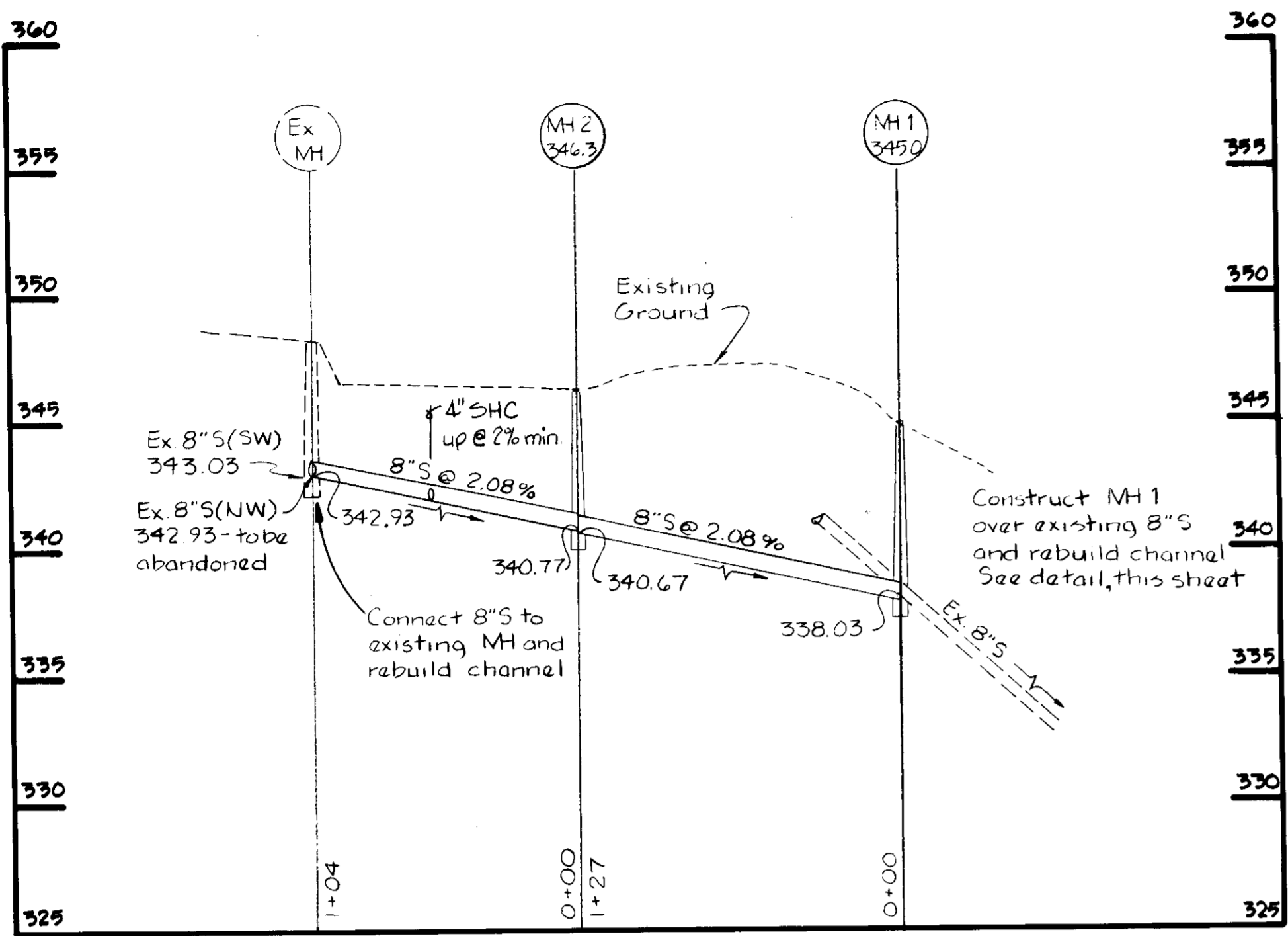
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
Johns Hopkins Road, Howard County, Maryland
Approved For The University By: *[Signature]*
Date: 11/5/86 Title: *[Signature]*

AN/ MSC-46 SATELLITE COMMUNICATIONS TERMINAL BUILDING
ADDITION TO SDP-87-07
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
11100 Johns Hopkins Road
Laurel, Maryland 20707

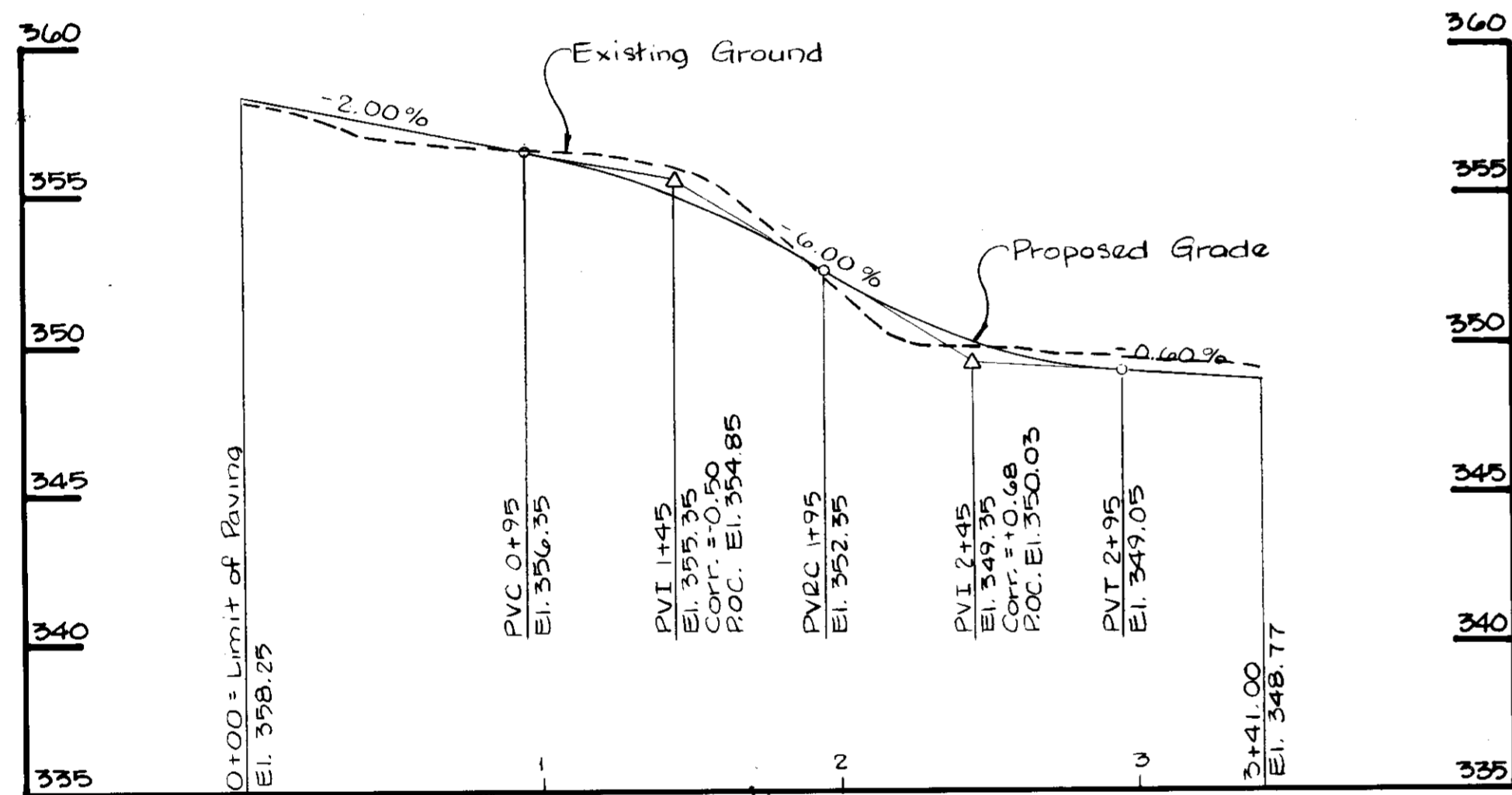
GRADING AND UTILITY PLAN
Fifth Election District
Tax Map 41
Howard County, Md.
Parcel 123

REVISIONS	SCALE: 1"=20'	DRAWING
	SHEET NO. 3	C 3
	OF 5	
	DATE: 11-5-86	

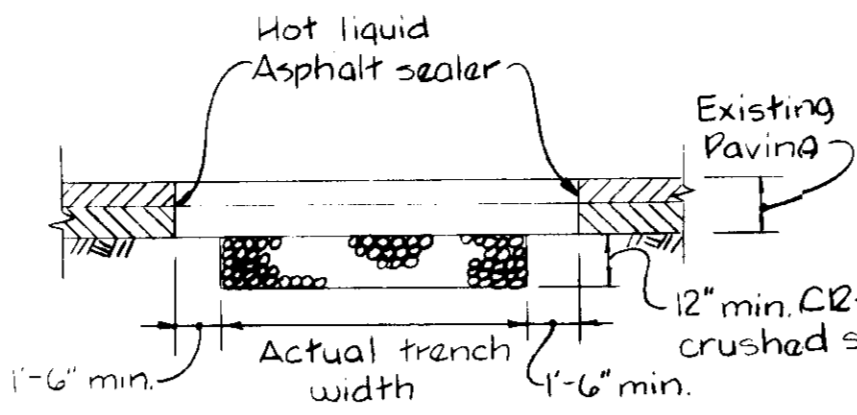
SDP-87-87



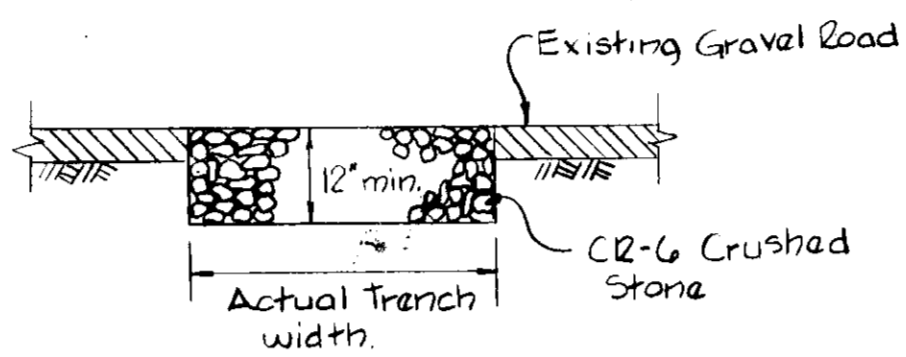
SEWER PROFILE
Scale: 1" = 50' H
1" = 5' V



PROFILE - ACCESS ROAD
Scale: 1" = 50' H
1" = 5' V



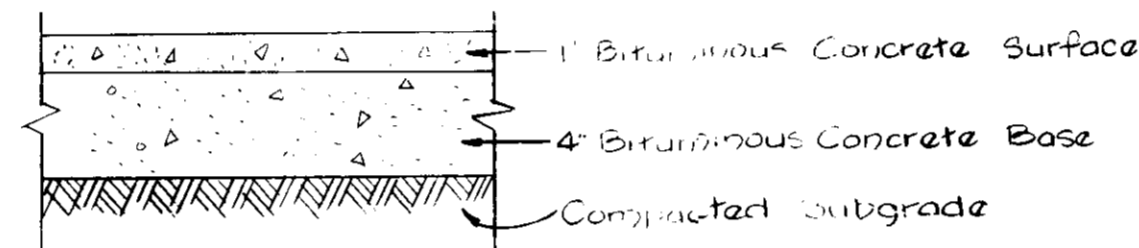
ROADS W/FLEXIBLE PAVEMENT



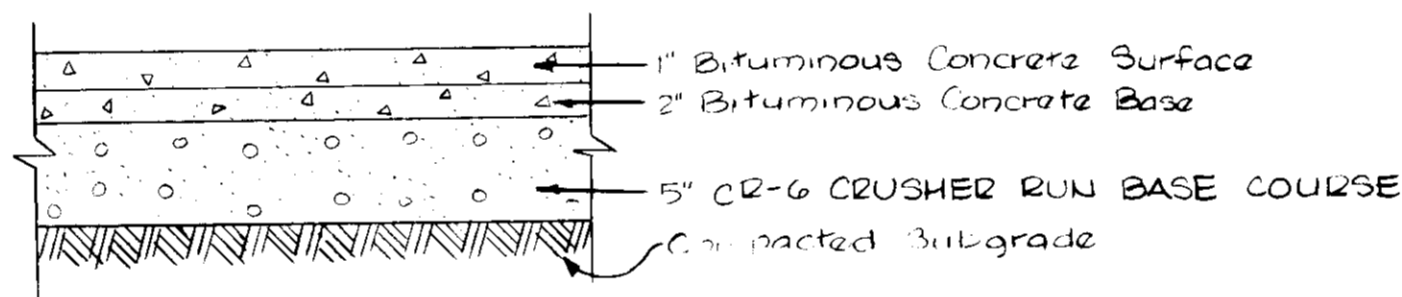
UNPAVED ROADWAY

METHOD OF CUTTING AND REPAIRING OPENINGS IN EXISTING ROADWAY

No Scale

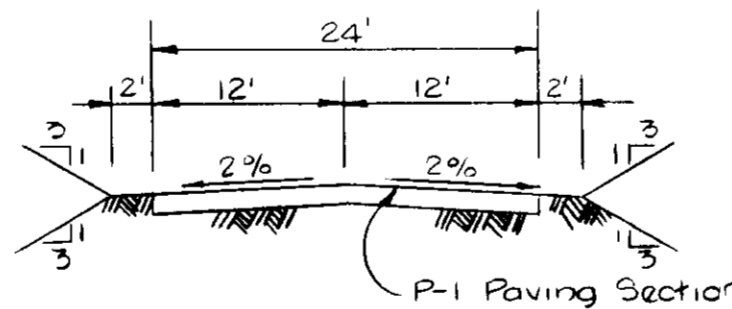


FULL DEPTH PAVING SECTION
No Scale

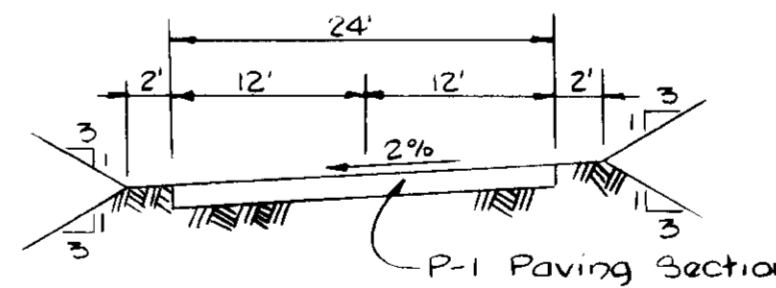


ALTERNATE PAVING SECTION
No Scale

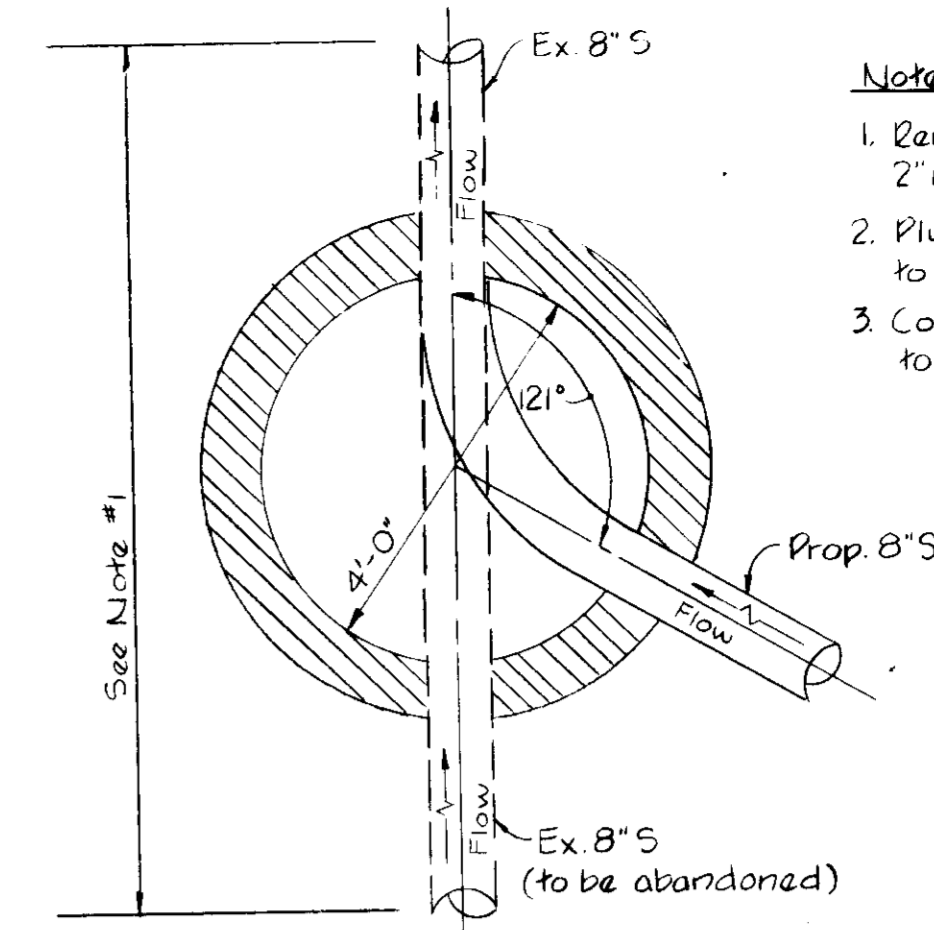
HOWARD COUNTY STANDARD P-1 PAVING SECTIONS



SECTION - PRIVATE ACCESS ROAD STA. 0+00 to STA. 1+10
No Scale

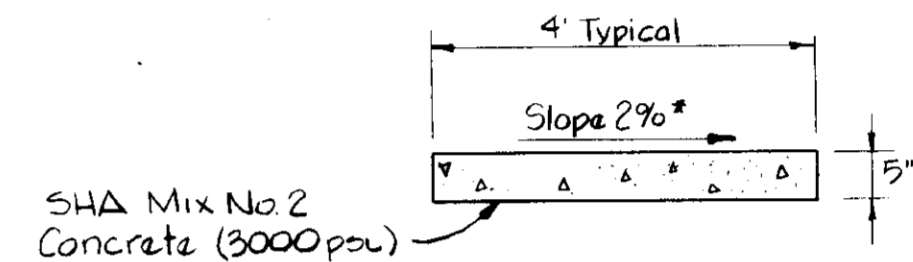


SECTION - PRIVATE ACCESS ROAD STA. 1+10 to STA. 3+41
No Scale

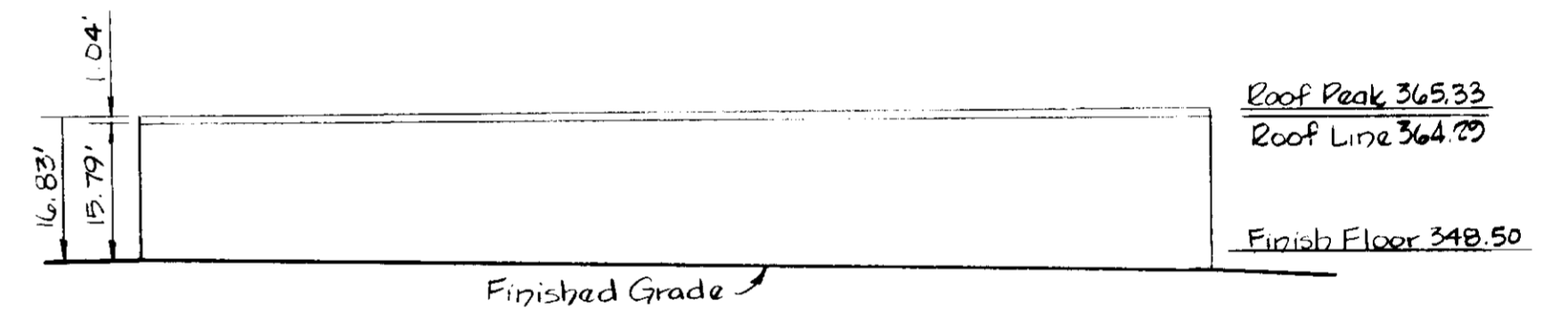


DETAIL - MH1 OVER EXISTING SEWER
Scale: 1/2" = 1'-0"

- Notes:**
1. Remove existing 8" sewer within 2" min. each side of Proposed Manhole 1.
 2. Plug south end of existing 8" sewer to be abandoned. (See plan)
 3. Construct Manhole 1 and build channel to meet existing 8" sewer.



SIDEWALK SECTION
No Scale



BUILDING ELEVATION
Scale: 1" = 20'

APPROVED:
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 12-5-86
[Signature]

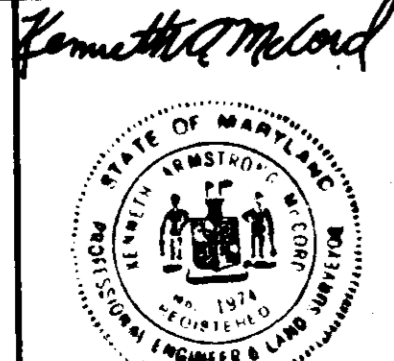
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 2-6-87
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[Signature] 2-24-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 2-24-87
PLANNING DIRECTOR DATE

[Signature] 2-21-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

WHITMAN, REQUARDT AND ASSOCIATES
2315 Saint Paul Street
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21218



APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY
Johns Hopkins Road Howard County, Maryland
Approved For The University By: *[Signature]*
Date: 11/5/86 Title: *Plant Engineer*

AN/ MSC -46 SATELLITE COMMUNICATIONS TERMINAL BUILDING ADDITION TO SDP-87-07
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
11100 Johns Hopkins Road
Laurel, Maryland 20707

DETAILS
Fifth Election District
Tax Map 41
Howard County, Md.
Parcel 123

REVISIONS
SCALE: As Shown
SHEET NO. 4 OF 5
DATE: 11-5-86

DRAWING
C 4
SDP-87-87

