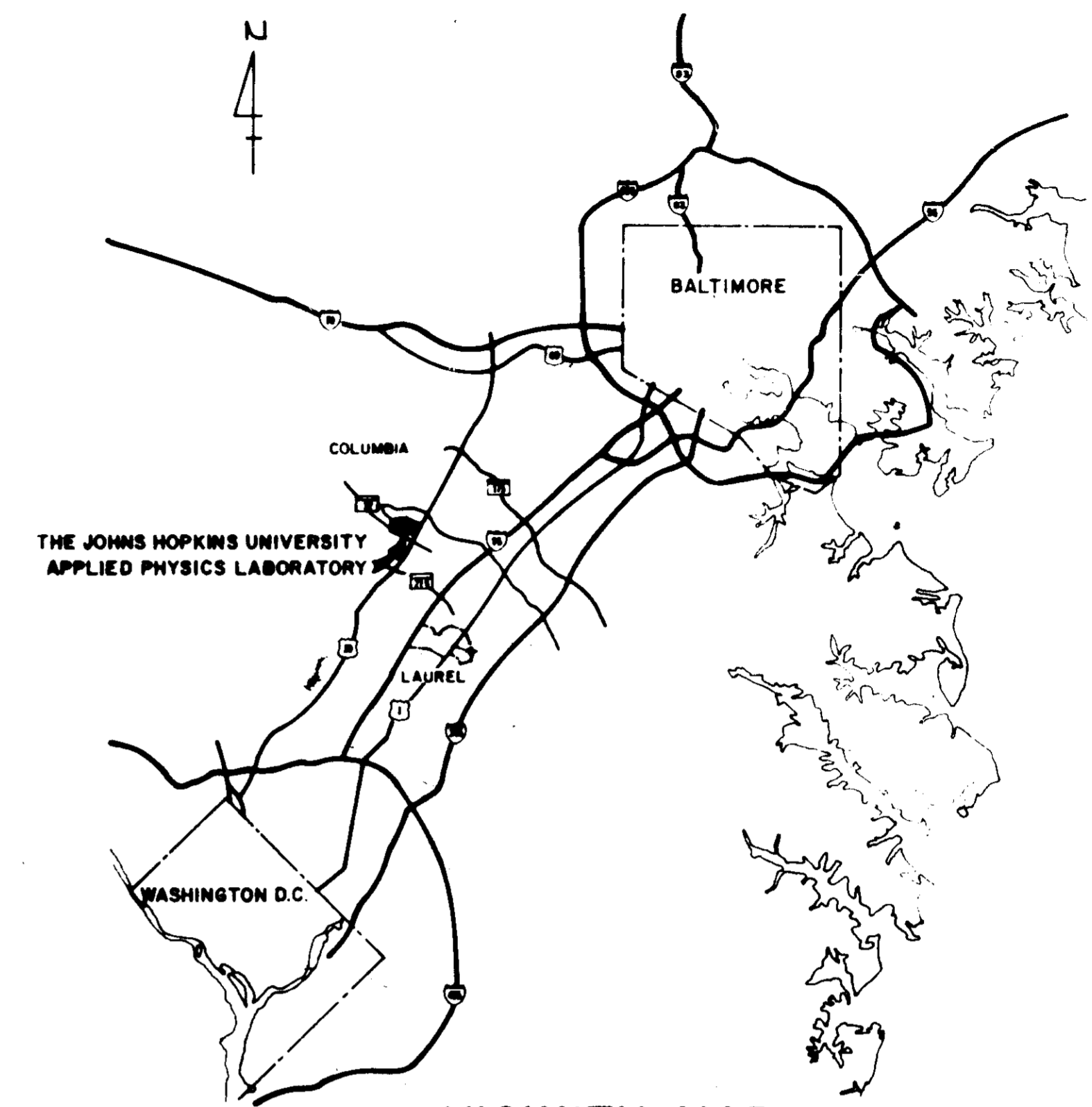


GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- ELEVATIONS SHOWN ARE BASED ON THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY DATUM. JHU-APL-DATUM - 0.94' = HOWARD COUNTY DATUM.
- THE CONTRACTOR SHALL CALL MISS UTILITY (301) 559-0100, FIVE DAYS PRIOR TO THE START OF CONSTRUCTION.
- 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.
- 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 (301) 953-7100.
- SECURITY MUST BE MAINTAINED WITHIN THE EXISTING FENCED AREA. ALL REQUIRED FENCE CONSTRUCTION AND RELOCATION SHALL BE BY THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY. HOWEVER THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH JHU-APL AS TO WHEN SUCH WORK IS REQUIRED.
- LANDSCAPING SHALL BE BY JHU-APL.
- 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.
- 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.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- ALL WATER MAINS SHALL BE DUCTILE IRON PIPE CLASS 52 WITH BONDING STRAPS.
- ALL SANITARY SEWER MAINS SHALL BE HOWARD COUNTY SCHEDULE SDR 35 P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 792-2630.
- TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3 1/2 FEET OF COVER UNLESS OTHERWISE NOTED.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- CONTRACTOR TO REMOVE ALL EXISTING PIPES AND CONDUITS FROM BENEATH PROPOSED BUILDINGS AND BACKFILL WITH COMPACTED MATERIAL PRIOR TO BUILDING CONSTRUCTION.
- ALL WORK SHOWN ON THESE DRAWINGS IS TO BE PERFORMED BY THE CENTRAL MECHANICAL PLANT CONTRACTOR UNLESS OTHERWISE NOTED. WORK TO BE PERFORMED BY THE NEW BUILDING NO. 13 CONTRACTOR IS NOTED ON THE DRAWINGS AS (N.B.13 CONTRACT). REFERENCES ON THE DRAWINGS (SEE ARCH.), (SEE STRUCT.), (SEE MECH.) REFER TO THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR THE CENTRAL MECHANICAL PLANT.

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
P123	11100 JOHNS HOPKINS ROAD



VICINITY MAP

Scale: 1"=6 Miles
INDEX

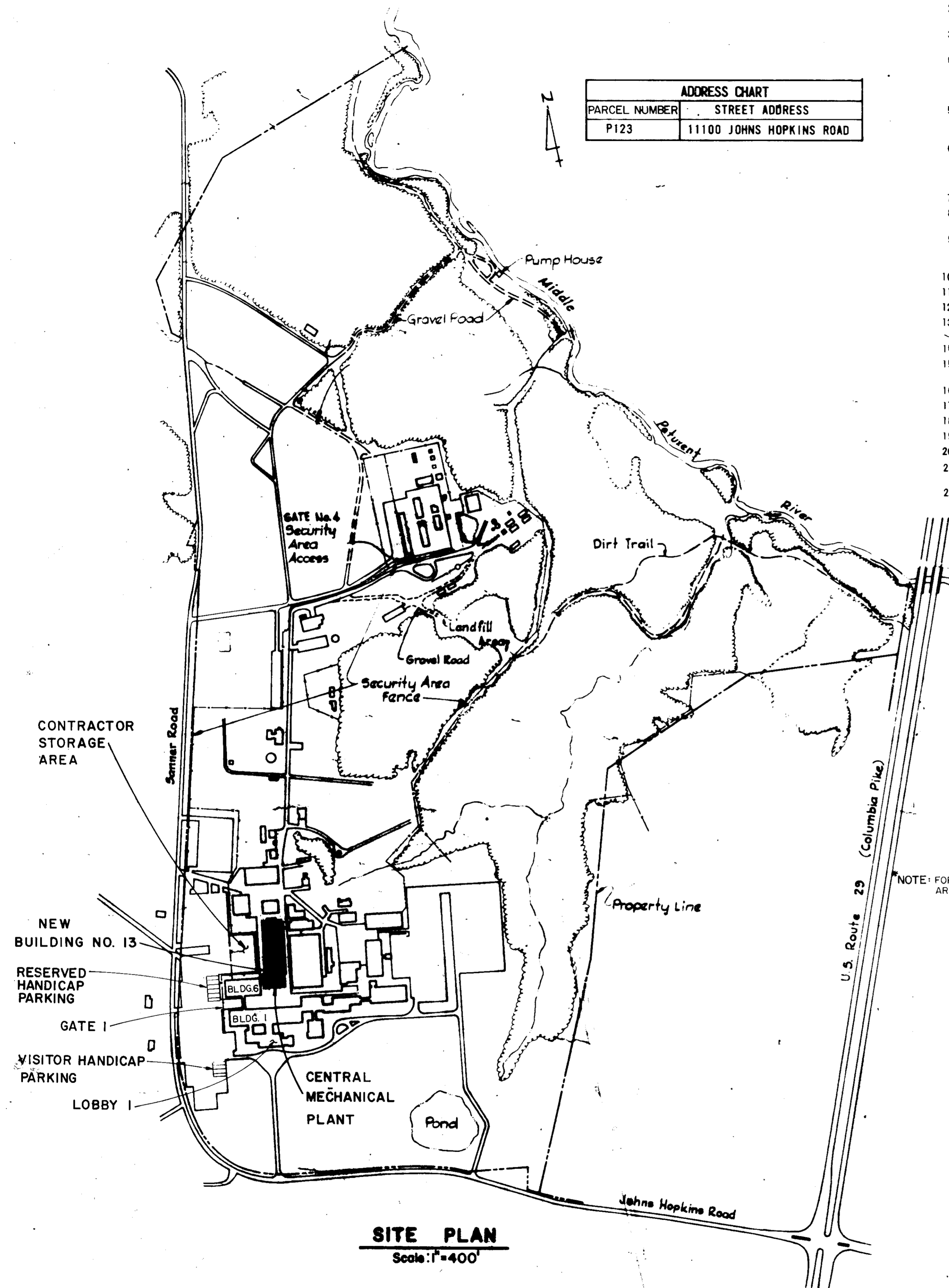
SHEET NO.	TITLE
C1	TITLE SHEET
C2	BUILDING ELEVATION AND DRAINAGE AREA DATA
C3	SEDIMENT CONTROL PLAN - NORTH
C4	SEDIMENT CONTROL PLAN - SOUTH
C5	SEDIMENT CONTROL DETAILS AND NOTES
C6	GRADING AND PAVING PLAN AND DETAIL
C7	GRADING AND PAVING EAST ROAD PROFILES AND SECTION
C8	GRADING AND PAVING WEST AND NORTH ROADS PROFILES AND SECTION
C9	UTILITY PLAN - NORTH AND NOTES
C10	UTILITY PLAN - SOUTH AND SCHEDULES
C11	EAST SIDE UTILITY RELOCATIONS-PROFILES
C12	EAST SIDE UTILITY RELOCATIONS-PROFILES
C13	WEST SIDE UTILITY RELOCATIONS-PROFILES AND DETAILS
C14	WEST SIDE UTILITY RELOCATIONS-PROFILES
C15	WEST SIDE UTILITY RELOCATIONS-PROFILES
C16	LANDSCAPING PLAN
C17	BORING LOGS

SITE DATA

1. ZONING	RURAL, R
2. SITE AREA	1.6 ACRES
3. BUILDING FLOOR AREA (GROSS AREA OF FIVE FLOORS)	185,730 SF.
4. ACREAGE OF ENTIRE PROPERTY	366 ACRES
5. EXISTING BUILDING COVERAGE	14.4 AC = 3.93%
6. PROPOSED BUILDING COVERAGE (IN EXCESS OF EXISTING BUILDING COVERAGE)	0.26 AC = 0.07%
7. MAXIMUM NUMBER OF EMPLOYEES (TO BE RELOCATED FROM EXISTING BUILDINGS ON SITE) IN THE PROPOSED BUILDING *	550
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 OF PARKING SPACES PROVIDED	2659
EXISTING SPACES	2659
PROPOSED SPACES	0
12. SEE BA CASE NO. 85-40E FOR BUILDING HEIGHT VARIANCE (57 FEET MAXIMUM)	

NOTE: FOR PROPOSED BUILDING 13, NO ADDITIONAL EMPLOYEES REQUIRED. ALL EMPLOYEES FOR PROPOSED BUILDING 13 ARE TO BE RELOCATED FROM EXISTING BUILDING ON-SITE.

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY HOWARD COUNTY, MARYLAND



SITE PLAN
Scale: 1"=400'

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER SYSTEMS-HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR: *[Signature]* DATE: 9-23-86

CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 9-23-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER: *[Signature]* DATE: 9-23-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

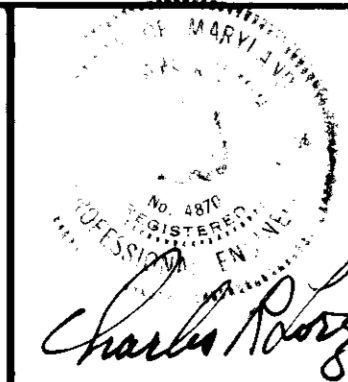
PLANNING DIRECTOR: *[Signature]* DATE: 9-30-86

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

SUBDIVISION NAME:	J.H.U. APPLIED PHYSICS LAB.	SECT./AREA	N/A	PARCEL	123
PLAT #OR L/F	234/304	BLOCK #	16	ZONE	R
TAX/ZONE MAP	41	ELEC. DIST.	5TH.	CENSUS TR	6051
WATER CODE	E21	SEWER CODE	6 48 00 00		

8-19-86
[Signature]

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



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: *[Signature]*
Date: 5/29/86 Title: ASST. DIRECTOR

BUILDING ADDITION TO SDP-86-225

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

TITLE SHEET

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: AS SHOWN
SHEET NO. 1
OF 17
DATE: MAY 27, 1986

DRAWING
C1
OF

APPROVED
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

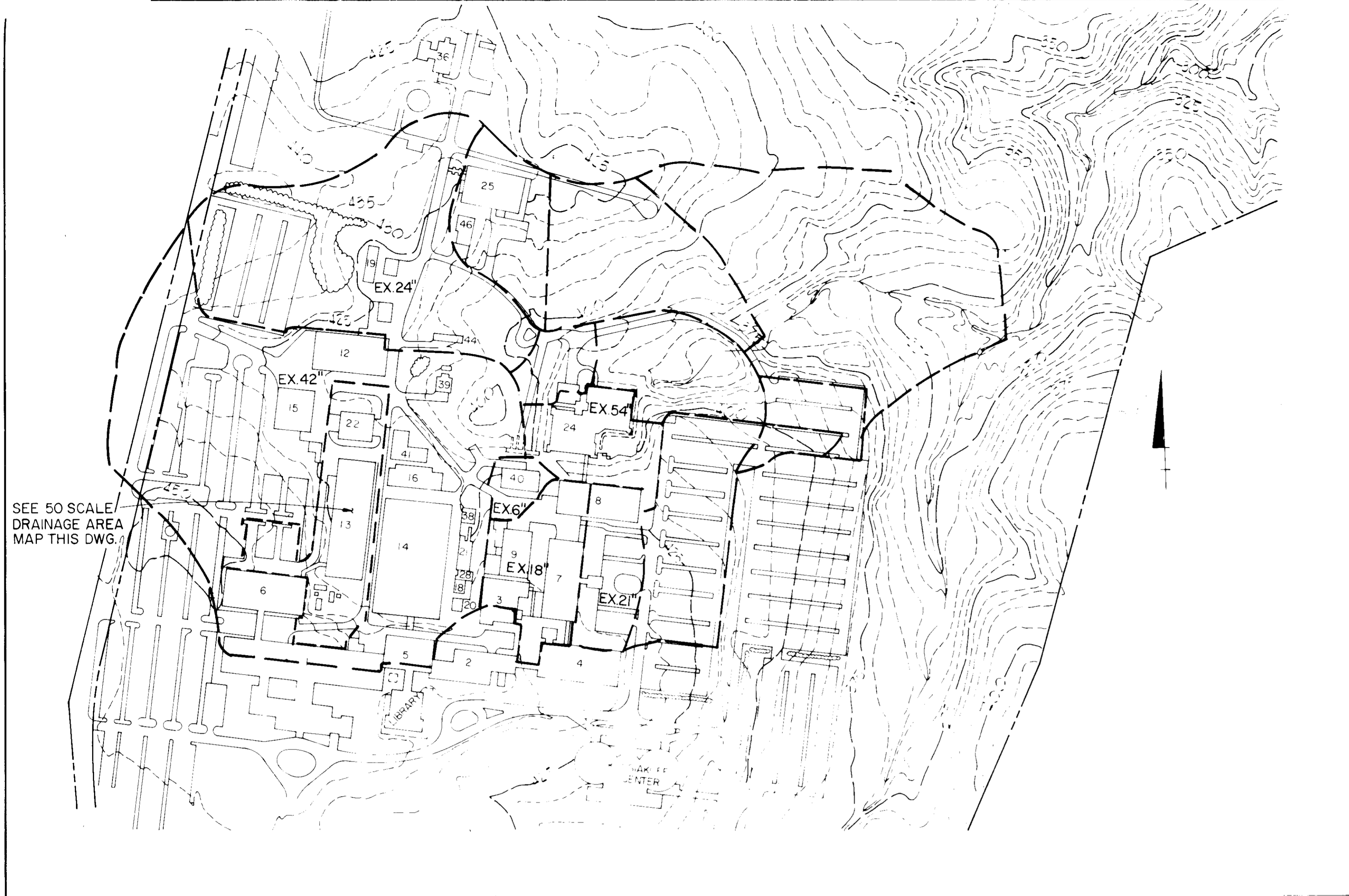
DIRECTOR _____ DATE _____

William E. Brown 9-23-86
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

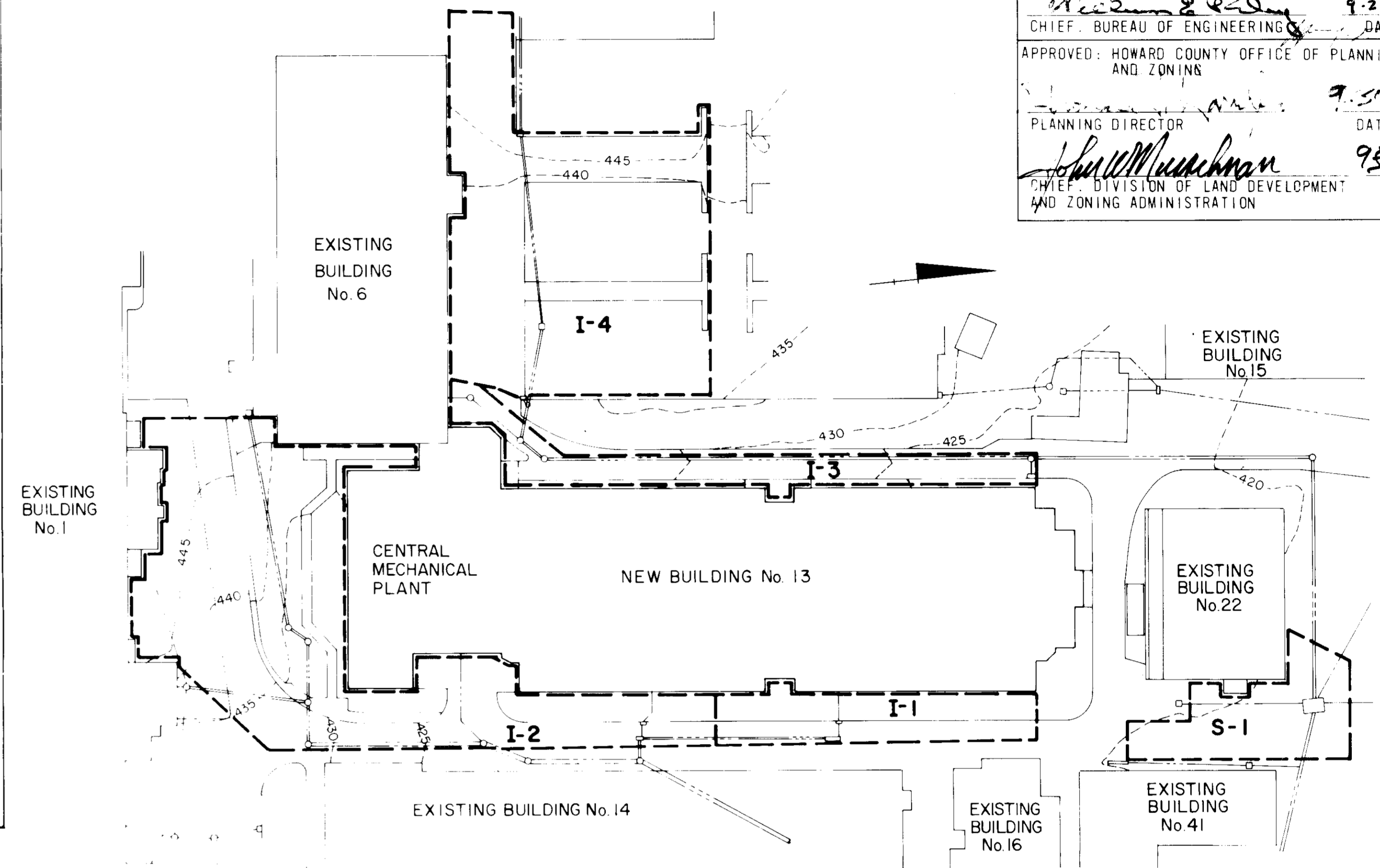
PLANNING DIRECTOR _____ DATE _____

Shirley M. Bushman 9-30-86
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION DATE

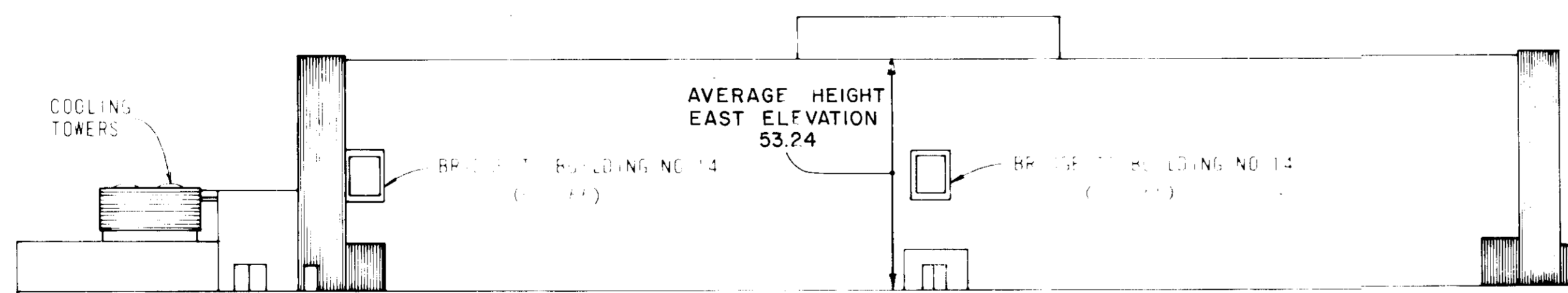


SEE 50 SCALE
DRAINAGE AREA
MAP THIS DWG.

DRAINAGE AREA MAP
Scale 1" = 200'



DRAINAGE AREA MAP
Scale 1" = 50'



EAST ELEVATION-CENTRAL MECHANICAL PLANT AND NEW BUILDING 13
Scale 1" = 30'

- 492'-06" TOP PENTHOUSE
- 487'-11" TOP PARAPET
- 481'-06" PENTHOUSE
- 471'-05" 5TH FLOOR
- 464'-43" 4TH FLOOR
- 448'-02" 3RD FLOOR
- 435'-01" 2ND FLOOR
- 422'-07" 1ST FLOOR

NOTE:

- BOARD OF APPEAL CASE NO. 85-40V
- AVERAGE PROPOSED HEIGHT
 - SOUTH ELEVATION = 49.00'
 - WEST ELEVATION = 52.29'
 - NORTH ELEVATION = 60.50'
 - EAST ELEVATION = 53.24'
 - AVERAGE ELEVATION = 53.26'

-- INLET TABLE --

INLET NO.	AREA (ACRES)	% IMP.	C
11	0.11	72.7	.72
12	0.58	40.4	.49
13	0.14	91.0	.79
14	0.53	63.0	.65
51	0.13	74.0	.71

8-19-86
[Signature]

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

Charles Root

JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By *[Signature]*
Date 5/29/86 ASST. DIRECTOR

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
100 JOHNS HOPKINS ROAD, LAUREL MD 20707

**BUILDING ELEVATION
AND DRAINAGE AREA DATA**

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: AS SHOWN
SHEET NO. 2
OF 17
DATE: MAY 27, 1986

**DRAWING
C 2**
OF

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWER SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: FOR PUBLIC SEWER AND PUBLIC WATER SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE 9-23-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR _____ DATE 9-30-86

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION _____ DATE 9-30-86

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

APPROVED: _____ DATE 9-24-86

HOWARD S.C.D.

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

SIGNATURE: _____ DATE: 9-17-86

U.S. SOIL CONSERVATION SERVICE

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."

SIGNATURE OF DEVELOPER _____ DATE 5/29/86

RESPONSIBLE PERSONNEL CERTIFICATION

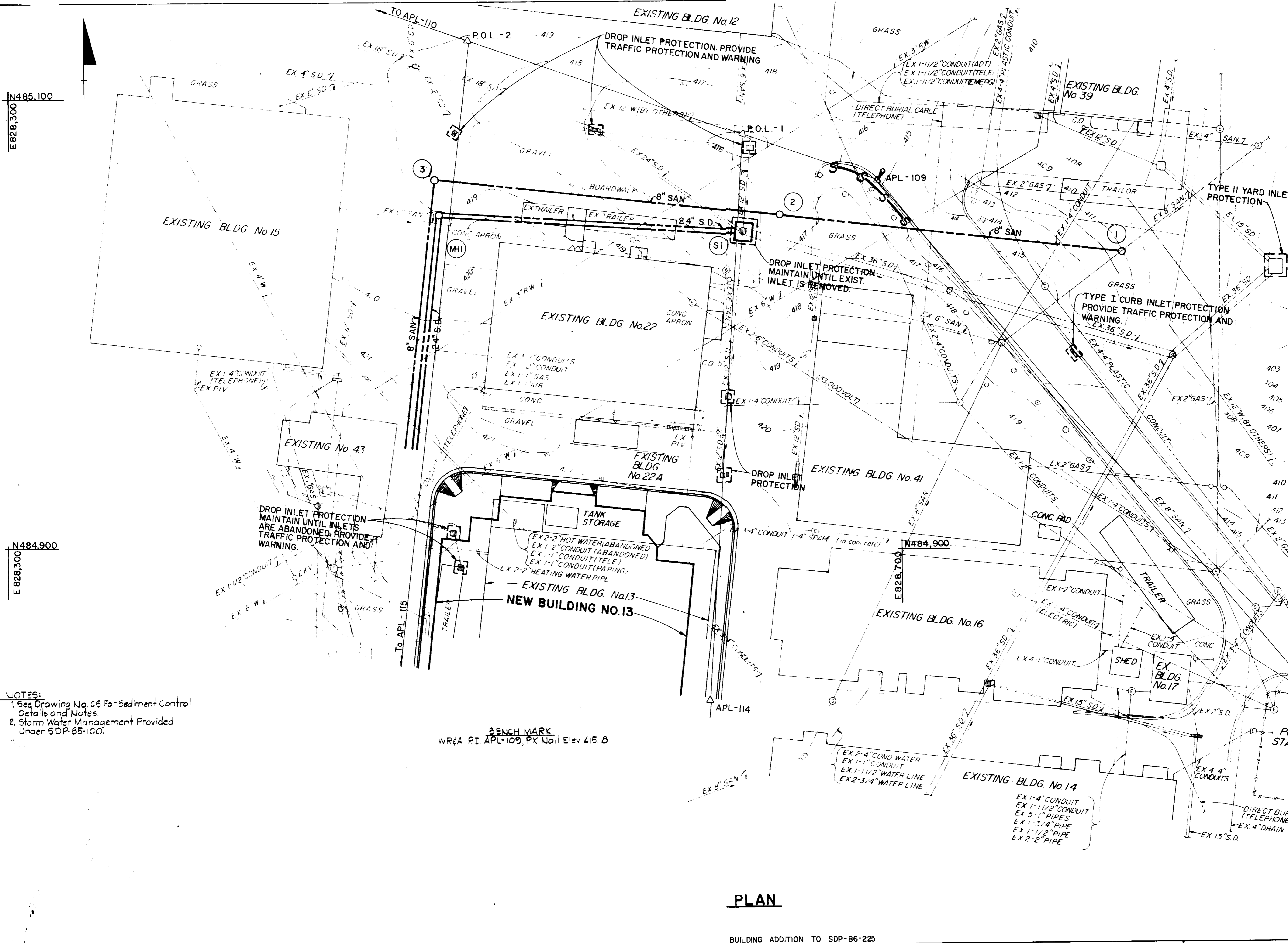
"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

SIGNATURE OF DEVELOPER _____ DATE 5/29/86

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."

SIGNATURE OF ENGINEER _____ DATE May 30, 1986



- NOTES:
1. See Drawing No. C5 For Sediment Control Details and Notes.
 2. Storm Water Management Provided Under SDP-85-100.

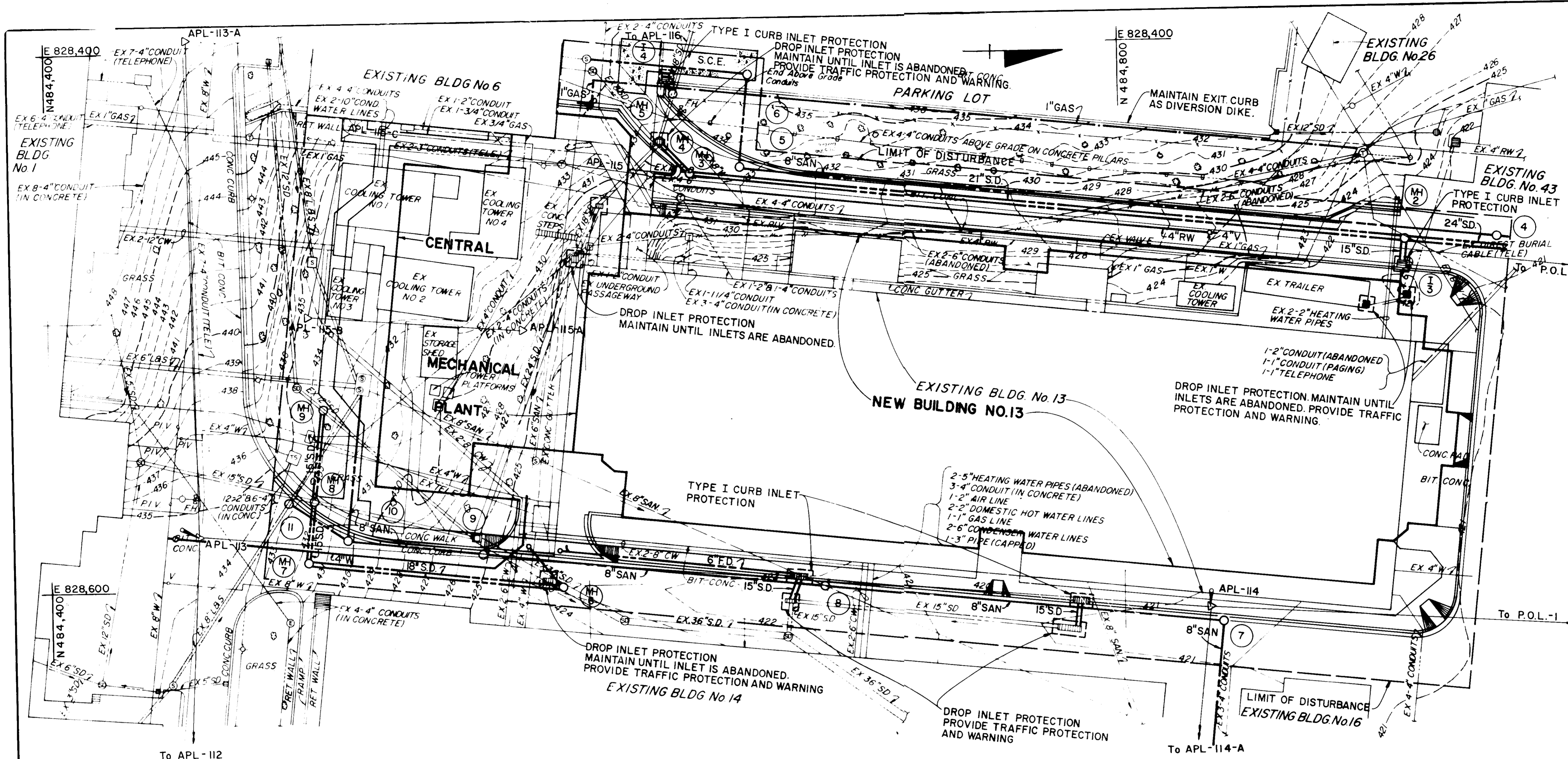
BENCHMARK
WR&A P.I. APL-109, PK Nail Elev 415.18

PLAN

BUILDING ADDITION TO SDP-86-225

<p>WHITMAN, REQUARDT AND ASSOCIATES CIVIL & STRUCTURAL ENGINEERS 2315 SAINT PAUL STREET BALTIMORE, MARYLAND 21218</p>		<p>JAMES GOLDSTEIN & PARTNERS ARCHITECTS 225 MILLBURN AVENUE MILLBURN, NEW JERSEY 07041</p> <p>HENRY ADAMS, INC. MECHANICAL & ELECTRICAL ENGINEERS 600 BALTIMORE AVENUE BALTIMORE, MARYLAND</p>	<p>APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY</p> <p>Approved For The University By: _____ Date: 5/29/86 Title: ASST. DIRECTOR</p>	<p>NEW BUILDING 13 AND ASSOCIATED DEVELOPMENT</p> <p>APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY 11100 JOHNS HOPKINS ROAD, LAUREL, MD. 20707</p>	<p>SEDIMENT CONTROL PLAN-NORTH</p> <p>Fifth Election District Howard County, MD Tax Map 41 Parcel 50 and 123</p>	<p>REVISIONS</p>	<p>SCALE: 1"=20' SHEET NO. 3 OF 17 DATE: MAY 27, 1986</p>	<p>DRAWING C 3 OF</p>
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APPROVED AND SUBMITTED
HOWARD COUNTY ADMINISTRATION
DATE 8-19-86
M. J. MULL



APPROVED
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: FOR PUBLIC SEWER AND PUBLIC WATER SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE 9-23-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR _____ DATE 7-30-86

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION _____ DATE 9-30-86

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

APPROVED: _____ DATE: 5/29/86
HOWARD S.C.D.

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

SIGNATURE: _____ DATE: _____
U.S. SOIL CONSERVATION SERVICE

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.

SIGNATURE OF DEVELOPER _____ DATE 5/29/86

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"

SIGNATURE OF DEVELOPER _____ DATE 5/29/86

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"

CHARLES H. ROSS _____ MAY 29, 1986
SIGNATURE OF ENGINEER DATE

- NOTES:
1. See Drawing No. C5 For Sediment Control Details and Notes.
 2. Storm Water Management Provided Under SDP-85-100.
 3. Contractor shall dispose of Water which accumulates in the building Excavation through approved Sediment Control Devices.

BENCH MARKS
WR(A) PI APL-113 x-Cut in MH Rim Elev. 434.30
WR(A) PI APL-114 PK Nail Elev. 421.43

PLAN

APPR.
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY
DATE 8-19-86
M. H. HILL

WHITMAN, REQUARDT AND ASSOCIATES CIVIL & STRUCTURAL ENGINEERS 2315 SAINT PAUL STREET BALTIMORE, MARYLAND 21218	JAMES GOLDSTEIN & PARTNERS ARCHITECTS 225 MILLBURN AVENUE MILLBURN, NEW JERSEY 07041	APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY Approved For The University By: _____ Date: 5/29/86 Title: ASST. DIRECTOR	BUILDING ADDITION TO SDP-86-225 NEW BUILDING 13 AND ASSOCIATED DEVELOPMENT APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY 11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707		REVISIONS	SCALE: 1"=20' SHEET NO. 4 OF 17 DATE: MAY 27, 1986	DRAWING C 4 OF
			SEDIMENT CONTROL PLAN-SOUTH Fifth Election District Howard County, MD Tax Map 41 Parcel 50 and 123				

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

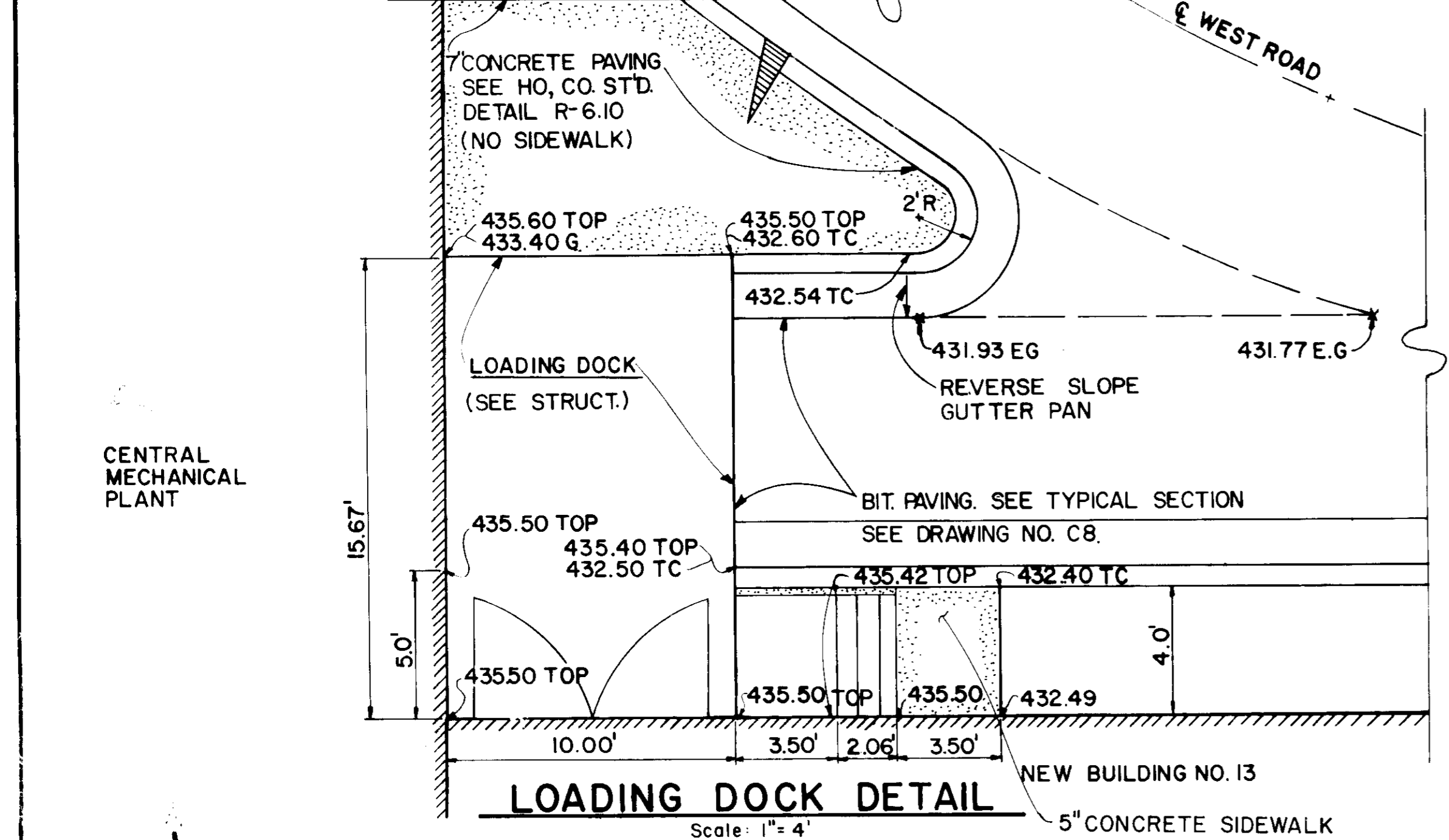
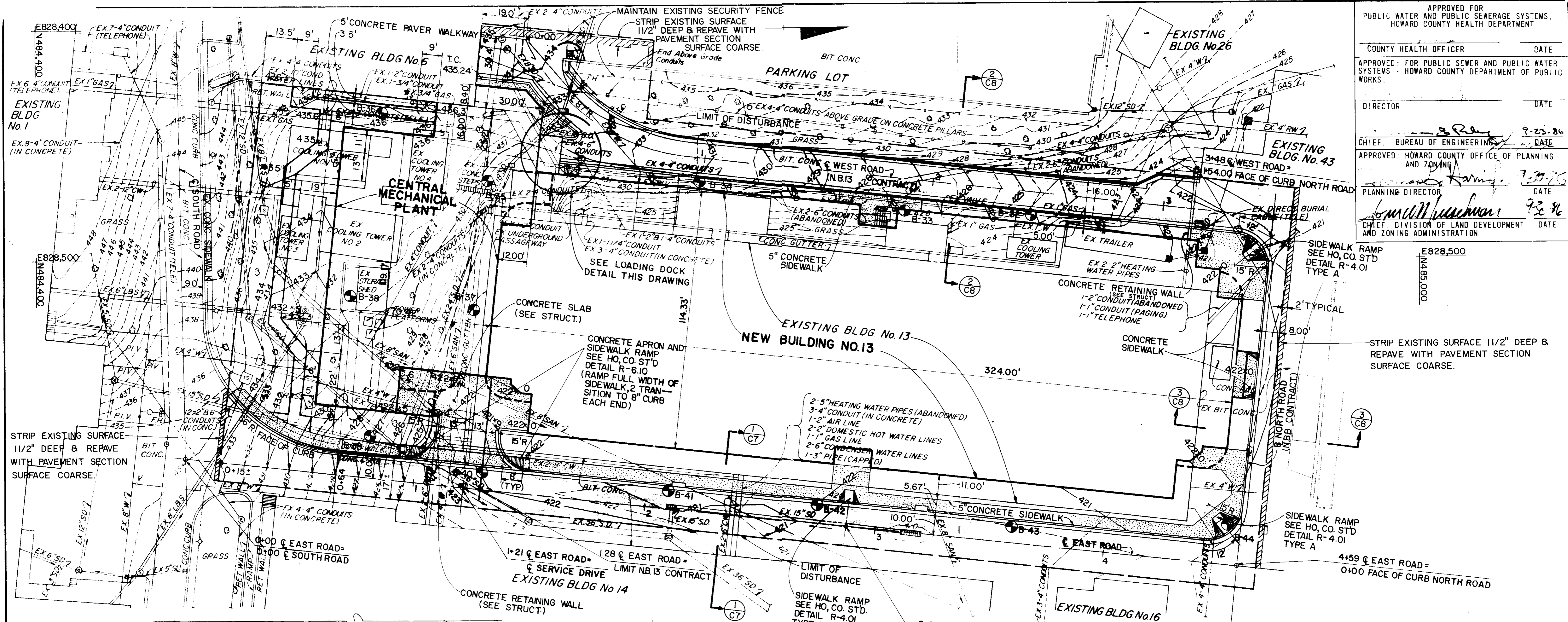
DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERS _____ DATE 9-23-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING _____ DATE 7-30-86

PLANNING DIRECTOR _____ DATE _____

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION _____ DATE 9-3-86



PLAN
Scale: 1"=20'

LEGEND

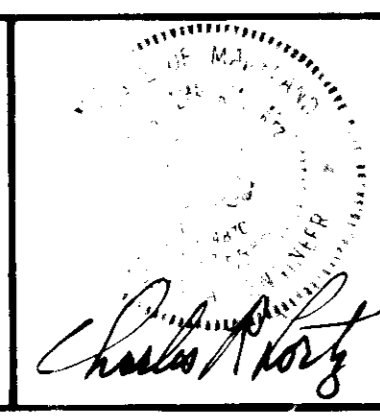
EG EDGE OF GUTTER
 TOP TOP OF LOADING DOCK
 G GROUND
 TC TOP OF CURB

- NOTES:**
1. FOR TOP OF CURB GRADE AND TYPICAL SECTIONS SEE DRAWING C6 & C7.
 2. FOR CONCRETE PAVEMENT DETAIL. SEE DRAWING C16.
 3. STRIPPING OF EXISTING BITUMINOUS CONCRETE SURFACE COARSE ALONG EAST ROAD NOT REQUIRED.
 4. PERMANENT REPAIR OF PAVING OVER UTILITY TRENCHES OUTSIDE LIMIT OF DISTURBANCE FOR NEW BUILDING 13 BY OWNER.

- LEGEND**
- CONCRETE PAVED WALKWAY
 - 5" CONCRETE SIDEWALK
 - 7" CONCRETE CURB AND GUTTER. SEE (C7)
 - BITUMINOUS CONCRETE PAVING. SEE (C7)

BUILDING ADDITION TO SDP-86-225

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



JAMES GOLDSTEIN & PARTNERS
 ARCHITECTS
 225 MILLBURN AVENUE
 MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
 MECHANICAL & ELECTRICAL ENGINEERS
 600 BALTIMORE AVENUE
 BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
 THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: _____
 Date: 5/29/86 Title: ASST DIRECTOR

NEW BUILDING 13
 AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
 THE JOHNS HOPKINS UNIVERSITY
 11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

GRADING AND PAVING
PLAN AND DETAIL

Fifth Election District Howard County, MD
 Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: AS SHOWN

SHEET NO. 6
 OF 17

DATE: MAY 27, 1986

DRAWING
C 6
 OF

8-19-86

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWER SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

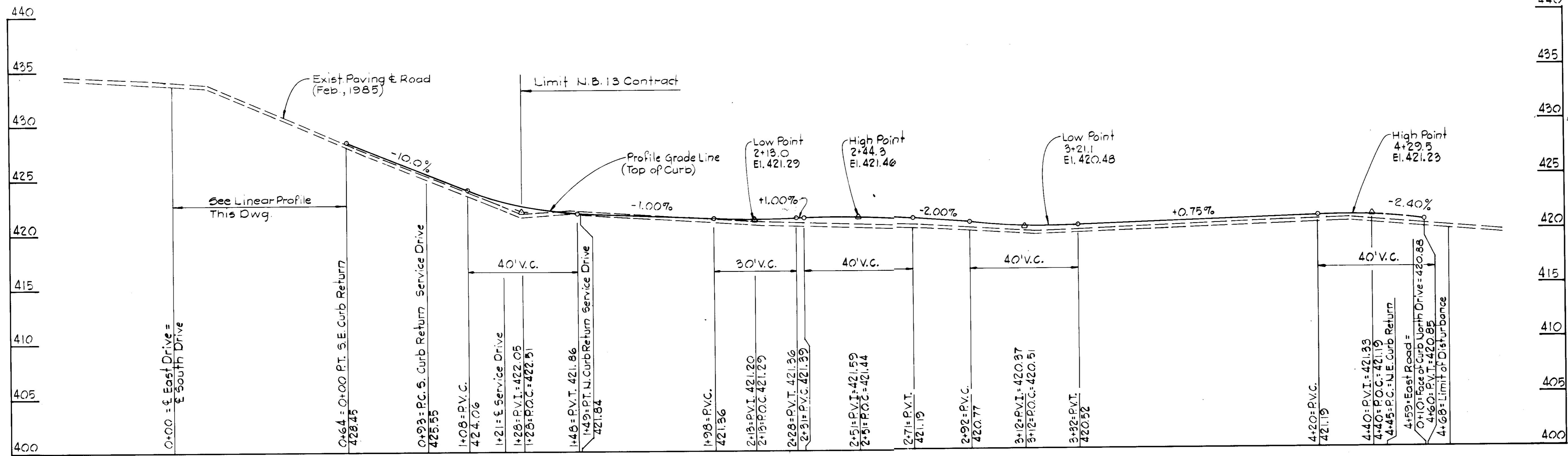
DIRECTOR _____ DATE _____

9/23/86
CHIEF, BUREAU OF ENGINEERING

APPROVED HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

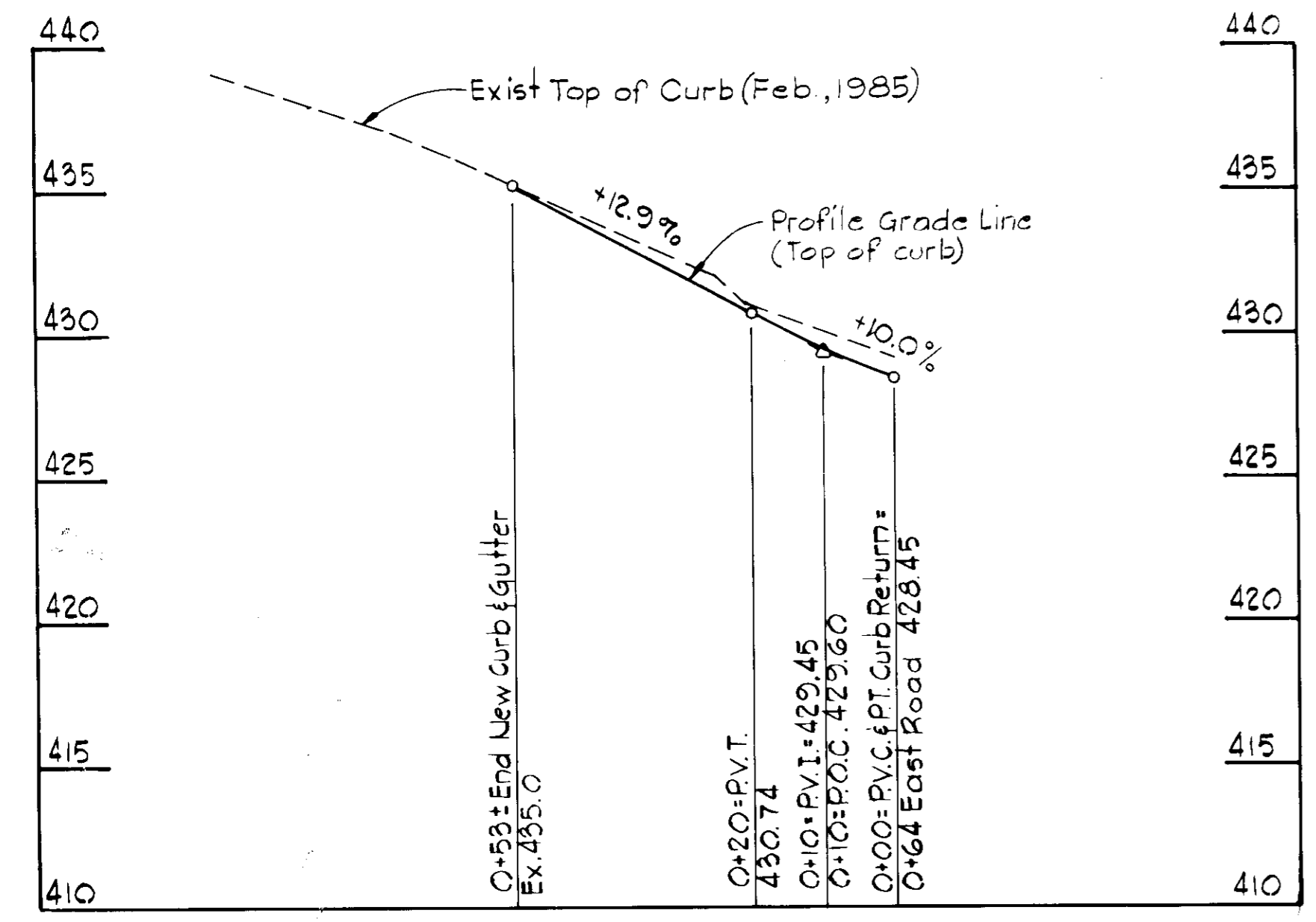
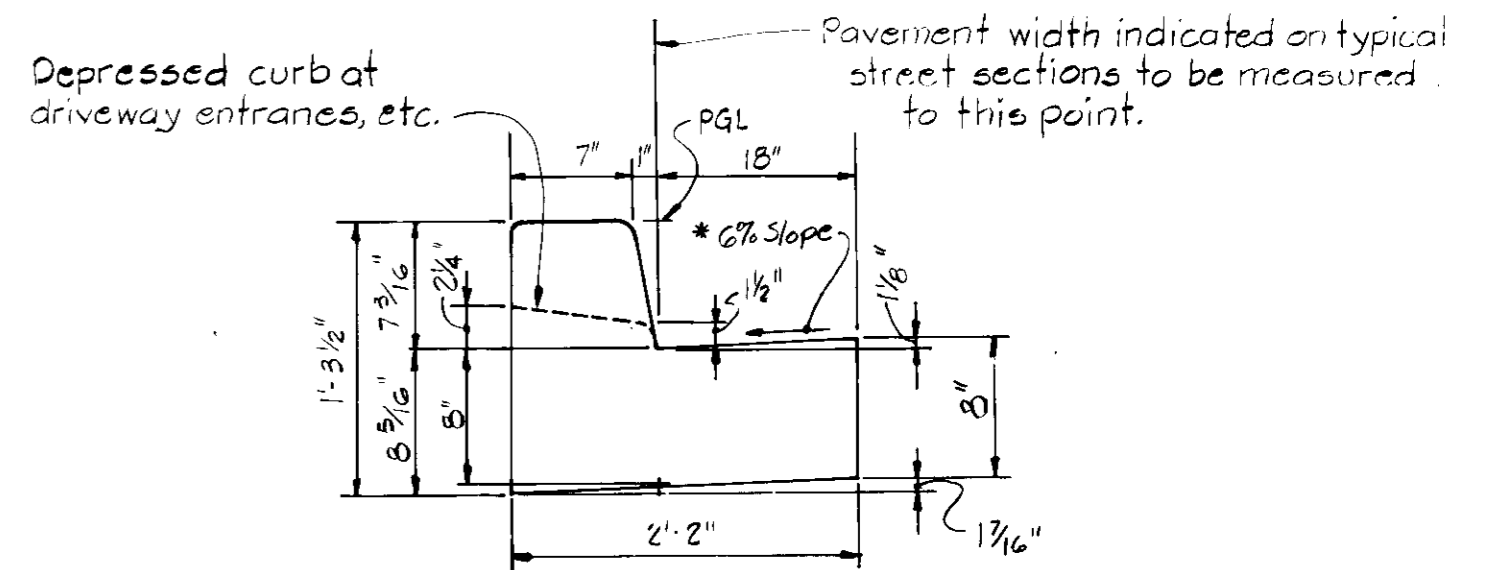
9/30/86
PLANNING DIRECTOR

9/30/86
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION



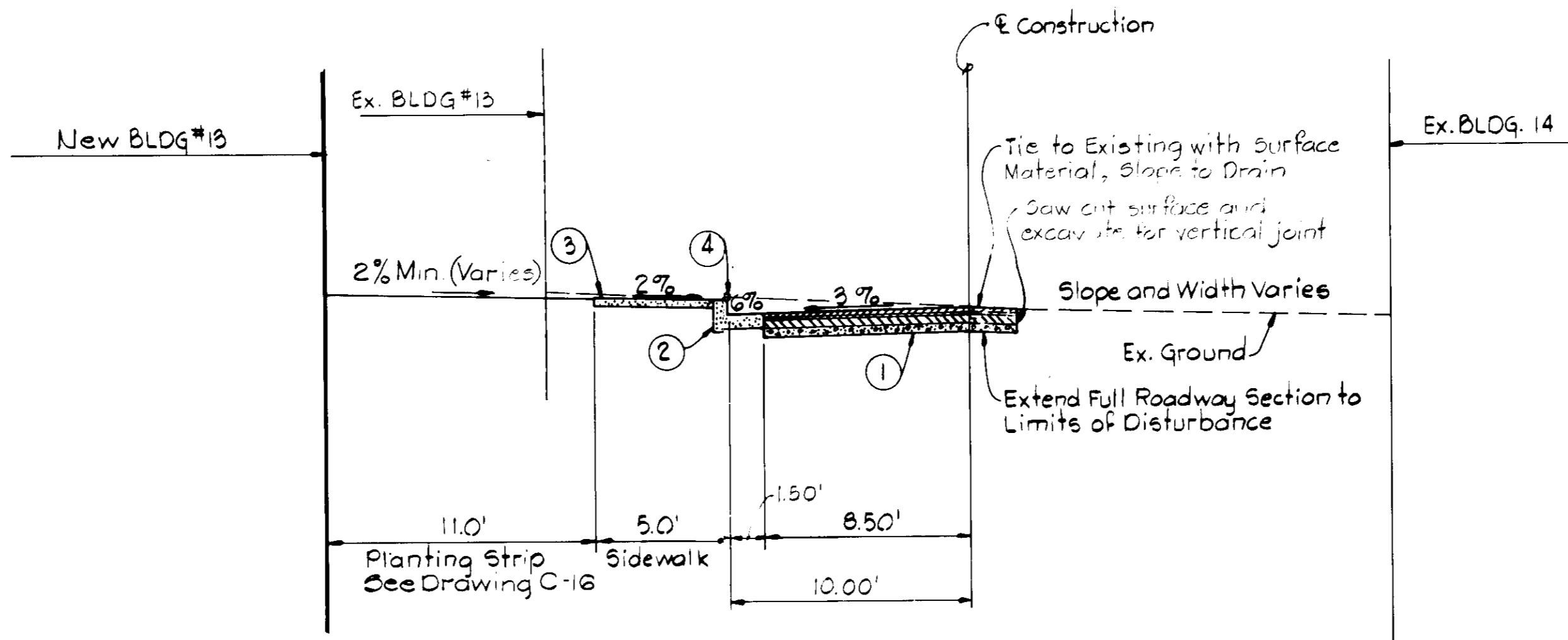
PROFILE-EAST ROAD

Scale: H: 1"=20'
V: 1"=5'



**LINEAR PROFILE-TOP OF CURB
SOUTHEAST CURB RETURN**

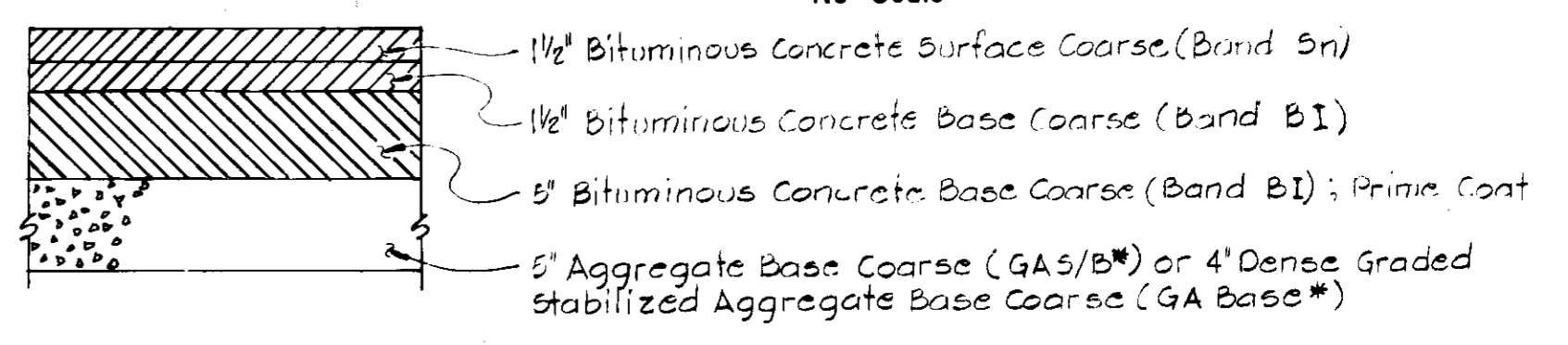
Scale: H: 1"=20'
V: 1"=5'



① TYPICAL SECTION

Scale: 1"=5'
BUILDING ADDITION TO SDP-86-225

**② 7" CONCRETE COMBINATION CURB & GUTTER DETAIL
HOWARD CO. ST'D DETAIL R 3.01**

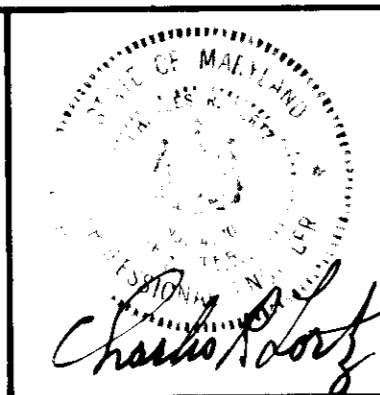


③ PAVING SECTION

No Scale

APPROVE!
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY MD
DATE 8-19-86

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



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: *[Signature]*
Date 5/29/86 Title ASST DIRECTOR

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

GRADING AND PAVING
EAST ROAD PROFILES
SECTION AND DETAIL
Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: AS SHOWN
SHEET NO. 7
OF 17
DATE: MAY 27, 1986

DRAWING
C 7
OF
SDP-86-262

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

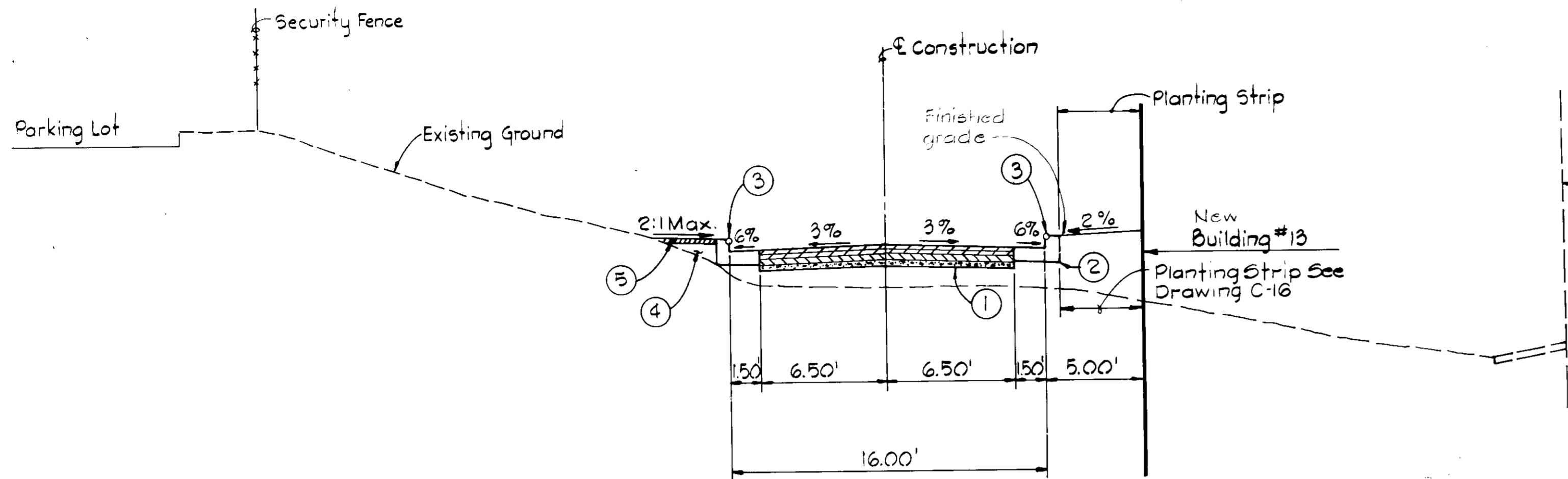
DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE 7-23-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

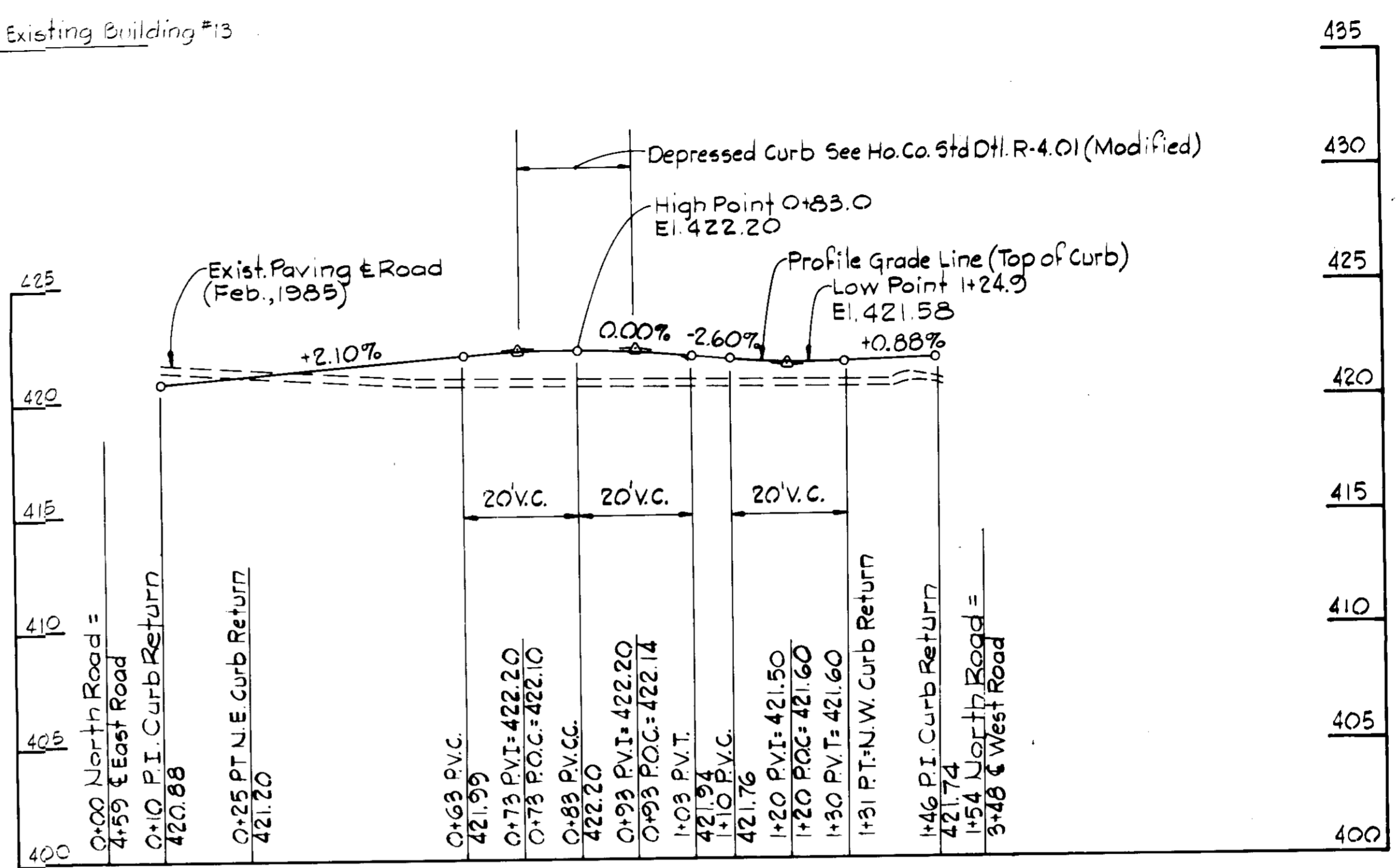
PLANNING DIRECTOR _____ DATE 7-30-84

CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION _____ DATE 8-19-86

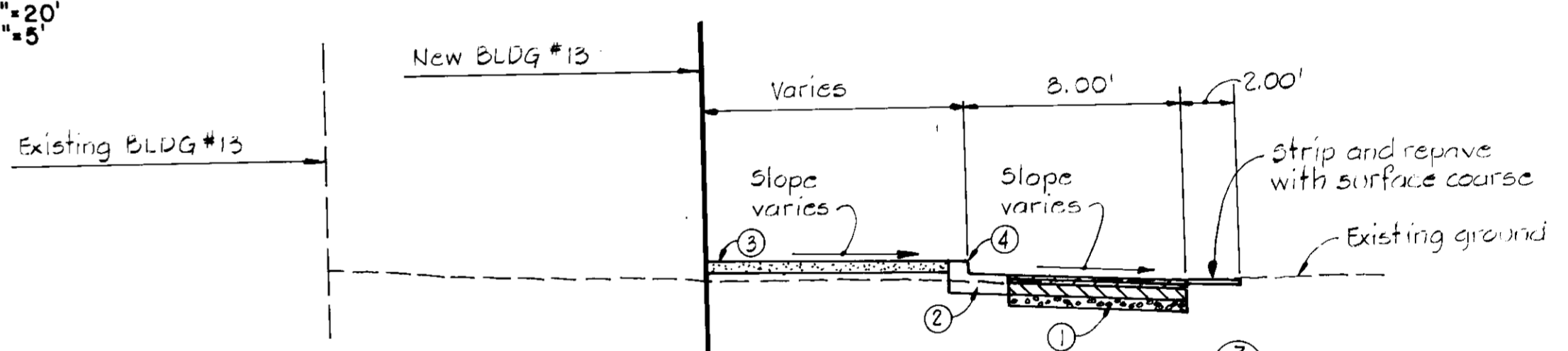


- NOTES:
- ① Paving Section P-4 (Granular Base) Howard Co. Standard Detail R-2.01 # (3/87)
 - ② Standard Concrete Combination Curb & Gutter, Howard Co. Standard Detail R-3.01 # (2/87)
 - ③ Profile Grade Line (PGL)
 - ④ Fill
 - ⑤ 4" Topsoil, Seed and Mulch

② **TYPICAL SECTION WEST ROAD**
Scale: 1"=5'

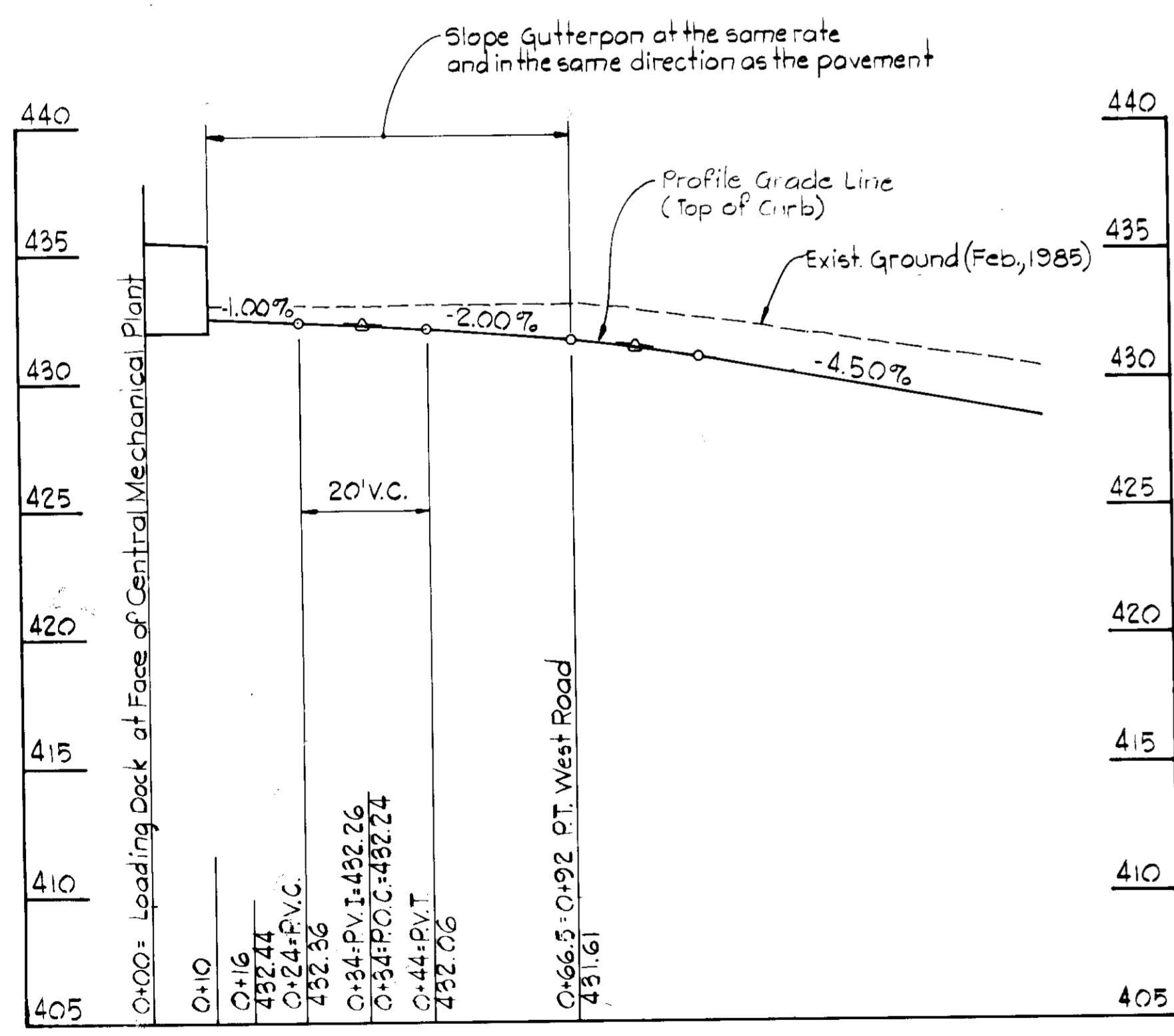


PROFILE NORTH ROAD
Scale: H: 1"=20'
V: 1"=5'

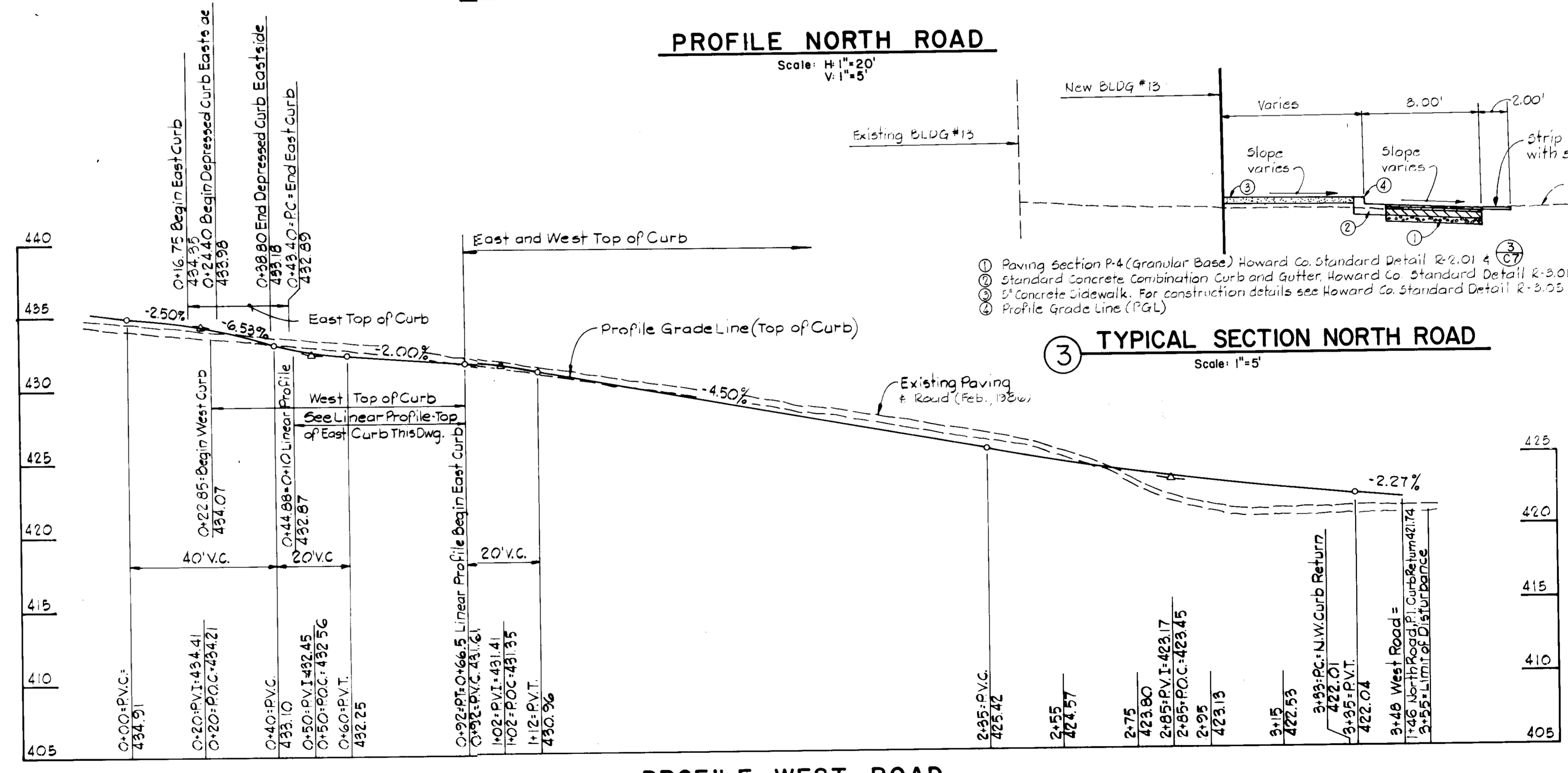


- ① Paving Section P-4 (Granular Base) Howard Co. Standard Detail R-2.01 # (3/87)
- ② Standard Concrete Combination Curb and Gutter, Howard Co. Standard Detail R-3.01 # (2/87)
- ③ Concrete sidewalk. For construction details see Howard Co. Standard Detail R-3.05
- ④ Profile Grade Line (PGL)

③ **TYPICAL SECTION NORTH ROAD**
Scale: 1"=5'

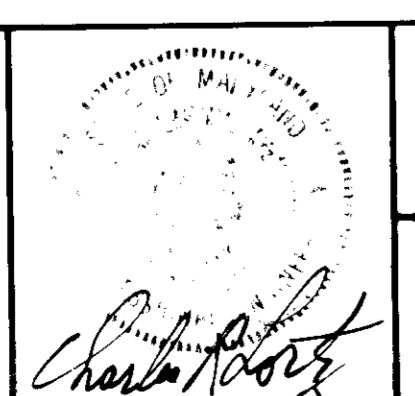


LINEAR PROFILE - TOP OF EAST CURB
Scale: H: 1"=20'
V: 1"=5'



PROFILE WEST ROAD
Scale: H: 1"=20'
V: 1"=5'

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



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By _____

Date: 5/29/86 Title: ASST DIRECTOR

BUILDING ADDITION TO SDP-86-225

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

GRADING AND PAVING
WEST AND NORTH ROAD

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: AS SHOWN
SHEET NO. 8
OF 17
DATE: MAY 27, 1986

DRAWING
C 8
OF

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

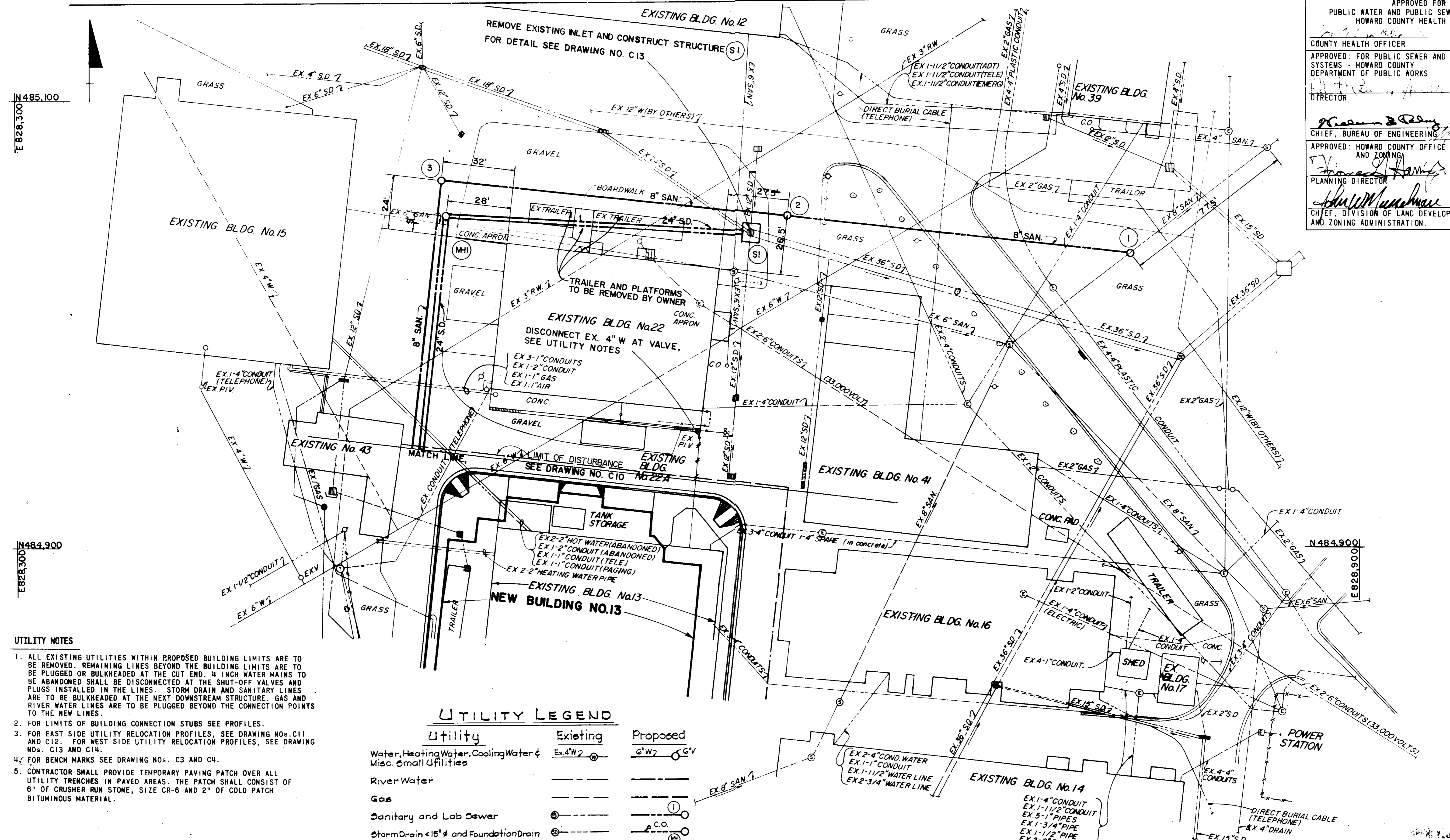
DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE 9-23-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

PLANNING DIRECTOR _____ DATE 9-30-86

CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION. DATE 9-30-86



- UTILITY NOTES**
- ALL EXISTING UTILITIES WITHIN PROPOSED BUILDING LIMITS ARE TO BE REMOVED. REMAINING LINES BEYOND THE BUILDING LIMITS ARE TO BE PLUGGED OR BULKHEADED AT THE CUT END. 4 INCH WATER MAINS TO BE ABANDONED SHALL BE DISCONNECTED AT THE SHUT-OFF VALVES AND PLUGS INSTALLED IN THE LINES. STORM DRAIN AND SANITARY LINES ARE TO BE BULKHEADED AT THE NEXT DOWNSTREAM STRUCTURE. GAS AND RIVER WATER LINES ARE TO BE PLUGGED BEYOND THE CONNECTION POINTS TO THE NEW LINES.
 - FOR LIMITS OF BUILDING CONNECTION STUBS SEE PROFILES.
 - FOR EAST SIDE UTILITY RELOCATION PROFILES, SEE DRAWING NOS. C11 AND C12. FOR WEST SIDE UTILITY RELOCATION PROFILES, SEE DRAWING NOS. C13 AND C14.
 - FOR BENCH MARKS SEE DRAWING NOS. C3 AND C4.
 - CONTRACTOR SHALL PROVIDE TEMPORARY PAVING PATCH OVER ALL UTILITY TRENCHES IN PAVED AREAS. THE PATCH SHALL CONSIST OF 6" OF CRUSHER RUN STONE, SIZE CR-6 AND 2" OF COLD PATCH BITUMINOUS MATERIAL.

UTILITY LEGEND

Utility	Existing	Proposed
Water, Heating Water, Cooling Water & Misc. Small Utilities	Ex. 4" W2	6" W7
River Water		
Gas		
Sanitary and Lab Sewer		
Storm Drain < 15" & Foundation Drain		
Storm Drain > 15" &		
Electric & Misc. Conduit & Direct Bury Cable		
Telephone Conduit		
Shown on Other Drawing or beneath Buildings		
Abandoned		
Relocated Fire Hydrant		

PLAN

BUILDING ADDITION TO SDP-86-225

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



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: *C. J. Smith*
Date: 5/29/86 Title: ASST. DIRECTOR

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

UTILITY PLAN NORTH
AND NOTES

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: 1"=20'
SHEET NO. 9
OF 17
DATE: MAY 27, 1986

DRAWING
C9

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC
WORKS

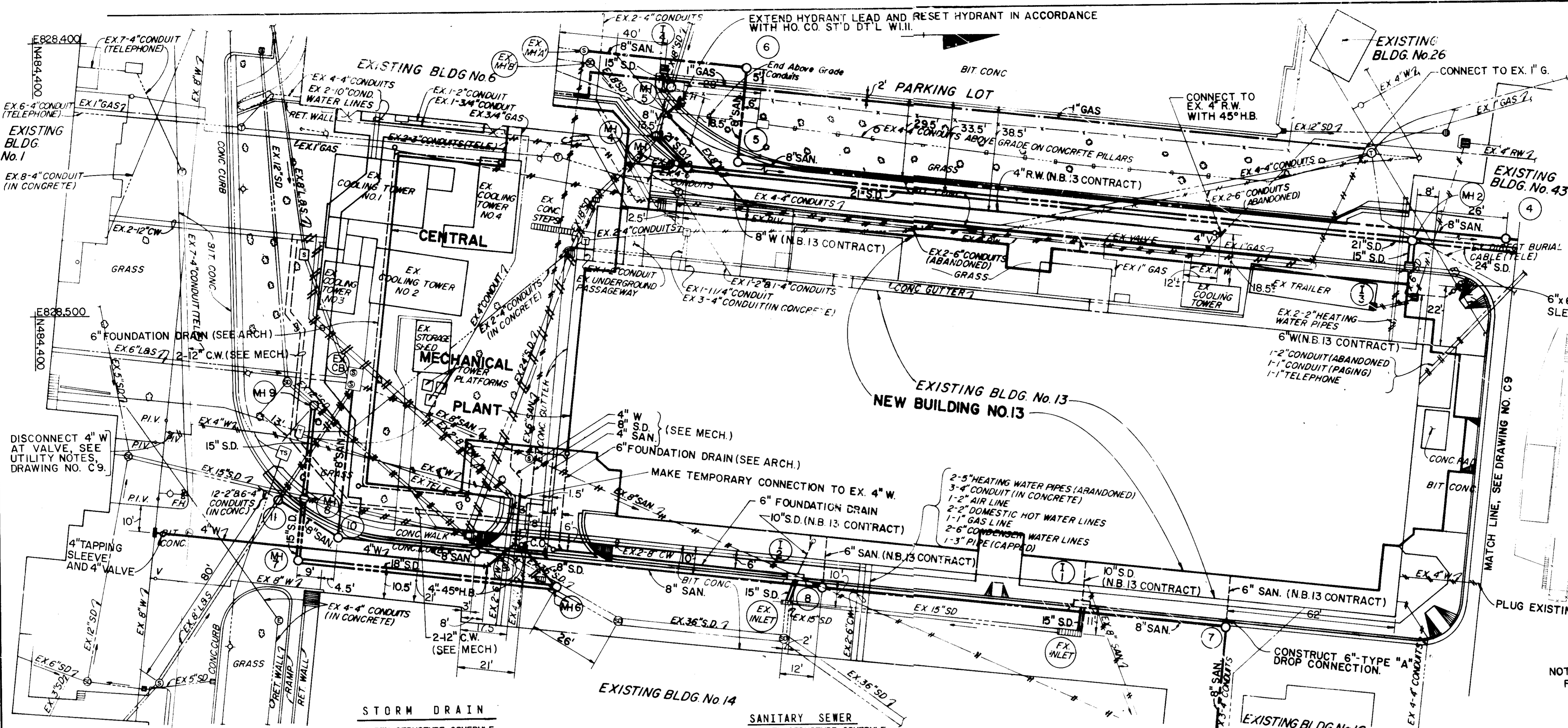
DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

PLANNING DIRECTOR _____ DATE _____

CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION _____ DATE _____



STORM DRAIN
UTILITY STRUCTURE SCHEDULE

NO.	TYPE	TOP	INV. IN	INV. OUT	REMARKS
I-1	A-5	419.70	417.52	417.10	SD 4.01 10' BLDG. CONNECTION TO WEST.
I-2	A-5	420.37	418.82	417.80	SD 4.01 10' BLDG. CONNECTION TO WEST.
I-3	S.COMB.	421.81	-	416.47	SD 4.32
I-4	S.COMB.	433.81	-	428.80	SD 4.32 DEPRESSED
MH-1	STD. PRECAST	419.1±	413.08	412.98	G-5.12
MH-2	STD. PRECAST	422.06	415.11(S) 415.94(E)	415.19	G-5.12
MH-3	STD. PRECAST	431.94	420.13	420.03	G-5.12
MH-4	STD. PRECAST	432.91	421.5±	420.42	G-5.14 CONSTRUCT OVER EXIST. S.D. PIPES. REMOVE EXIST. INLET.
MH-5	DROP MH.	434.0	427.90(SW)	423.4±	STATE HIGHWAY DEPT. DETAIL NO. MD-383.11
MH-6	SHALLOW MH.	422.5±	418.20	416.7±	G-5.05 CONSTRUCT OVER EXIST. 36" S.D.
MH-7	DROP MH	431.5±	421.93	419.53	STATE HIGHWAY DEPT. DETAIL NO. MD-383.11
MH-8	DROP MH	434.0	429.35(W) 429.0±(S)	422.86	STATE HIGHWAY DEPT. DETAIL NO. MD-383.11
MH-9	SHALLOW MH.	433.5	428.8±(S)	428.00	G-5.05 CONSTRUCT OVER EXISTING 12" S.D.
S-1	SEE DWG. #C13	415.9	409.84(W)	408.8±(E)	REMOVE EXIST. INLET CONSTRUCT OVER EXIST. S.D. PIPES.

SANITARY SEWER
UTILITY STRUCTURE SCHEDULE

NO.	TYPE	TOP	INV. IN	INV. OUT	REMARKS
1	DROP TYPE "B"	411.2	405.52	395.7±	G 5.14 AND S 1.32 CONSTRUCT OVER EXIST. 8" SEWER.
2	STD. PRECAST	416.6±	407.22	406.14	G 5.12
3	STD. PRECAST	419.0±	413.21	413.11	G 5.12
4	STD. PRECAST	421.15	415.07	414.97	G 5.12
5	STD. PRECAST	431.93	420.05	419.95	G 5.12 WITH WATERTIGHT FRAME AND COVER G 5.52
6	STD. PRECAST	434.3±	421.69	421.66	G 5.12
7	DROP TYPE "A"	420.34	412.65(S)	412.55	G 5.12 AND S 1.32 WITH WATER- TIGHT FRAME AND COVER G 5.52 8" DROP BLDG. CONNECTION TO WEST S 1.32
8	DROP TYPE "A"	420.86	415.8±(S) 415.09±(S) 415.87±(W)	413.25	G 5.12 & S 1.32 W/WATERTIGHT FRAME & COVER G 5.52, 6" BLDG. CONNECTION TO WEST (2' LONG)
9	DROP TYPE "A"	424.64	418.72	415.60	G 5.12 & S 1.32 W/WATERTIGHT FRAME & COVER G 5.52
10	STD. PRECAST	430.07	423.77(S&W)	423.67	G 5.12 WITH WATERTIGHT FRAME & COVER G 5.52
11	STD. PRECAST	433.3±	426.4±(SE)	426.34	G 5.14 WITH WATERTIGHT FRAME & COVER G 5.52 CONSTRUCT OVER 2 EXIST. 8" SEWERS.

PLAN

NOTE:
FOR UTILITY NOTES, SEE DRAWING NO. C9.

WHITMAN, HEQUARDT AND ASSOCIATES
CIVIL & STRUCTURAL ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 John Hopkins Road, Laurel Md 20707

Approved For The University By: _____
Date: 5/24/86 Title: ADULT DROP

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

UTILITY PLAN SOUTH
AND SCHEDULES
Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: 1"=20'

SHEET NO. 10
OF 17

DATE: MAY 27, 1986

DRAWING
C 10
OF

SDP-86-262

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

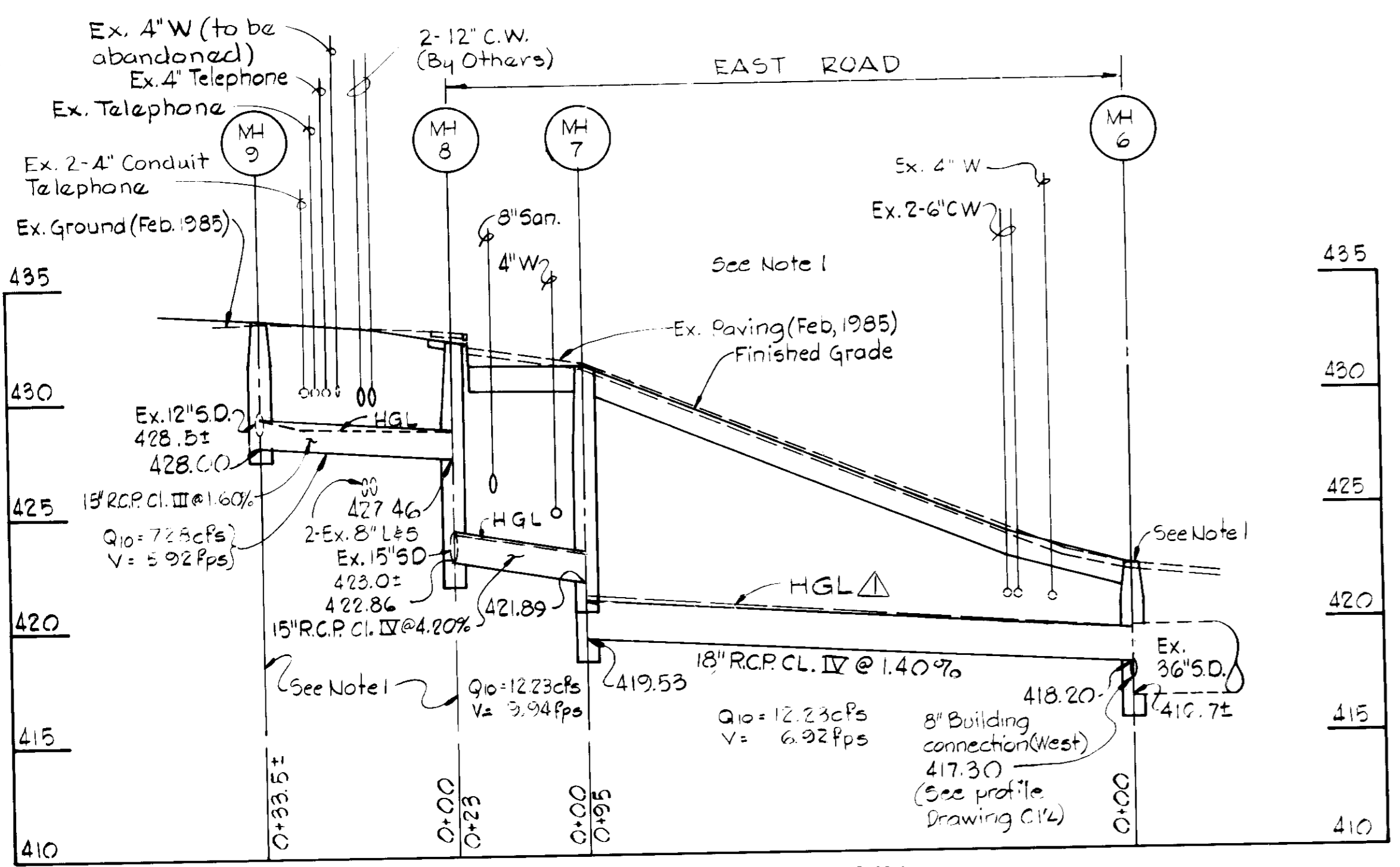
PLANNING DIRECTOR _____ DATE _____

CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION

DATE 9-23-86

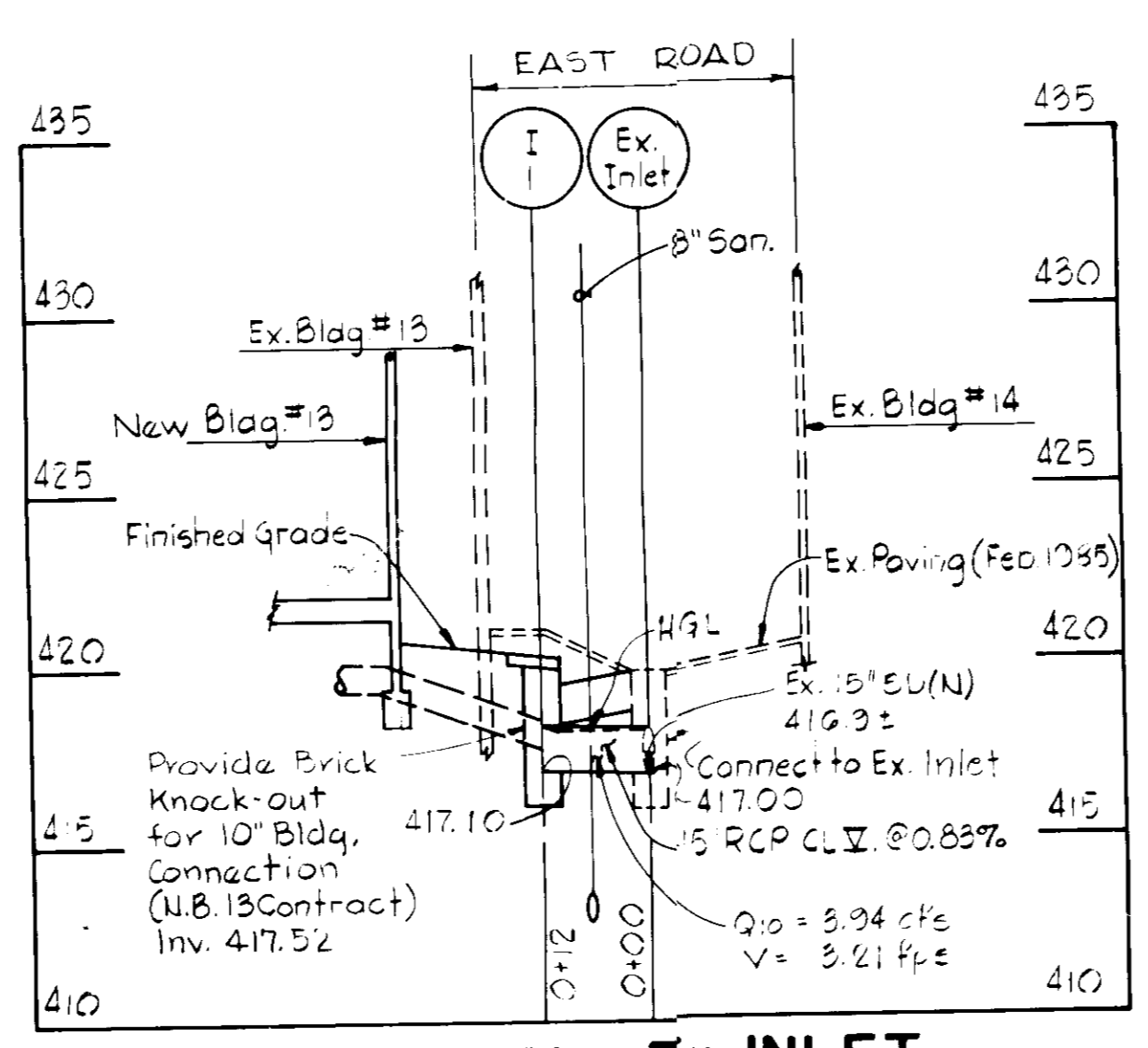
DATE 9-30-86

DATE 9-30-86

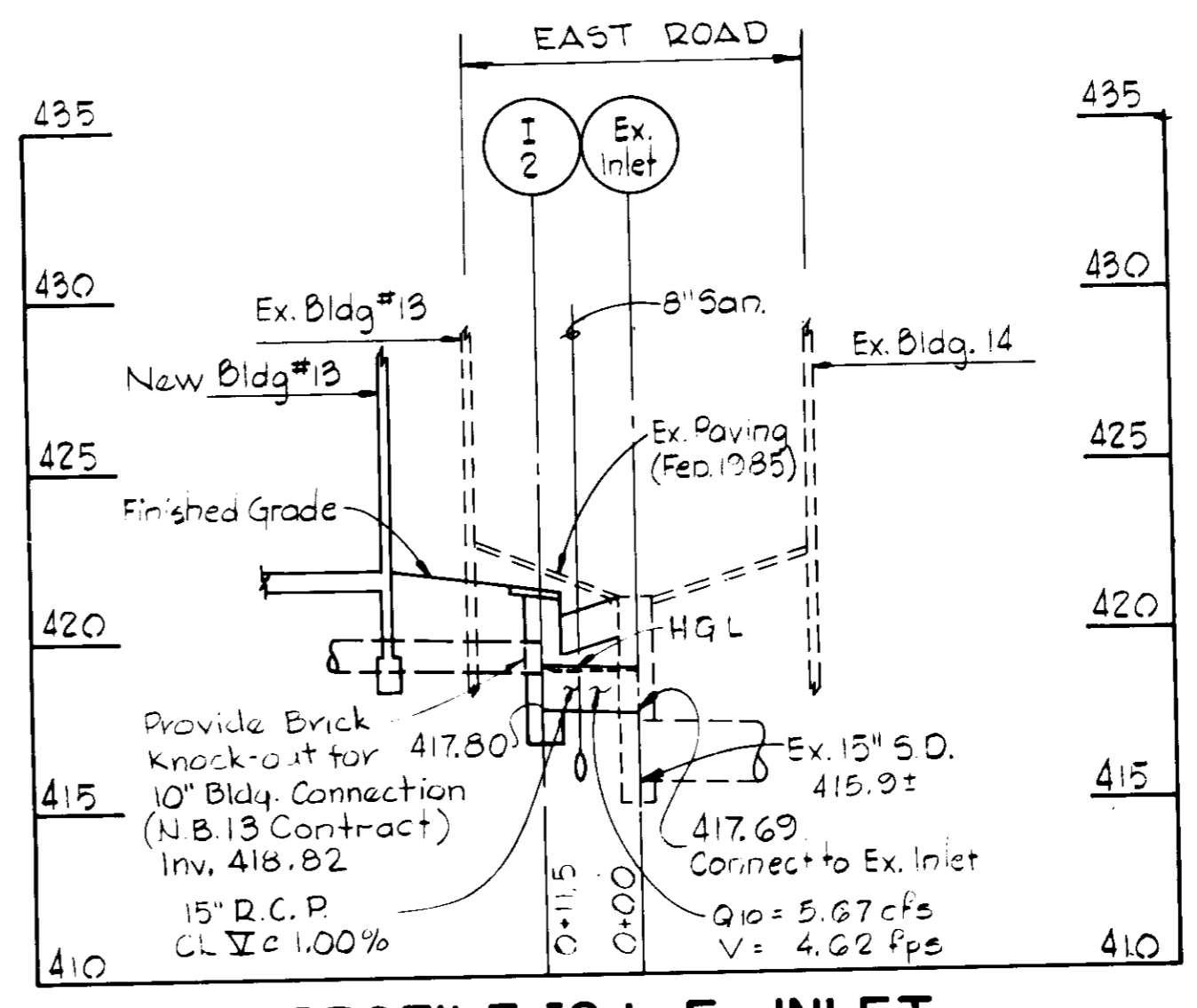


PROFILE-STORM DRAIN

Note 1: Build MHS 6, 7, 8, & 9 over ex. Storm Drain pipe. Upon written notice from the Owner, make final connections to ex. pipes, construct brick bulkheads on the lines to be abandoned as shown on Drawing C10 and construct channels.



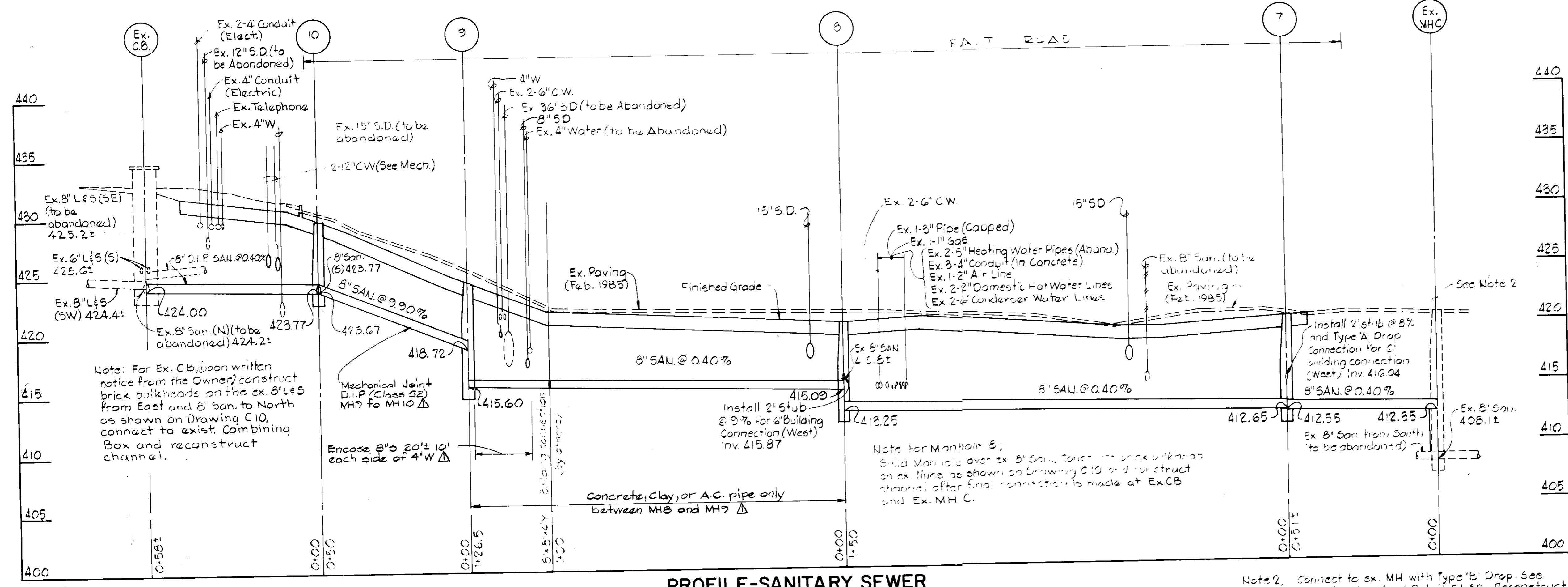
PROFILE-11 to EX. INLET



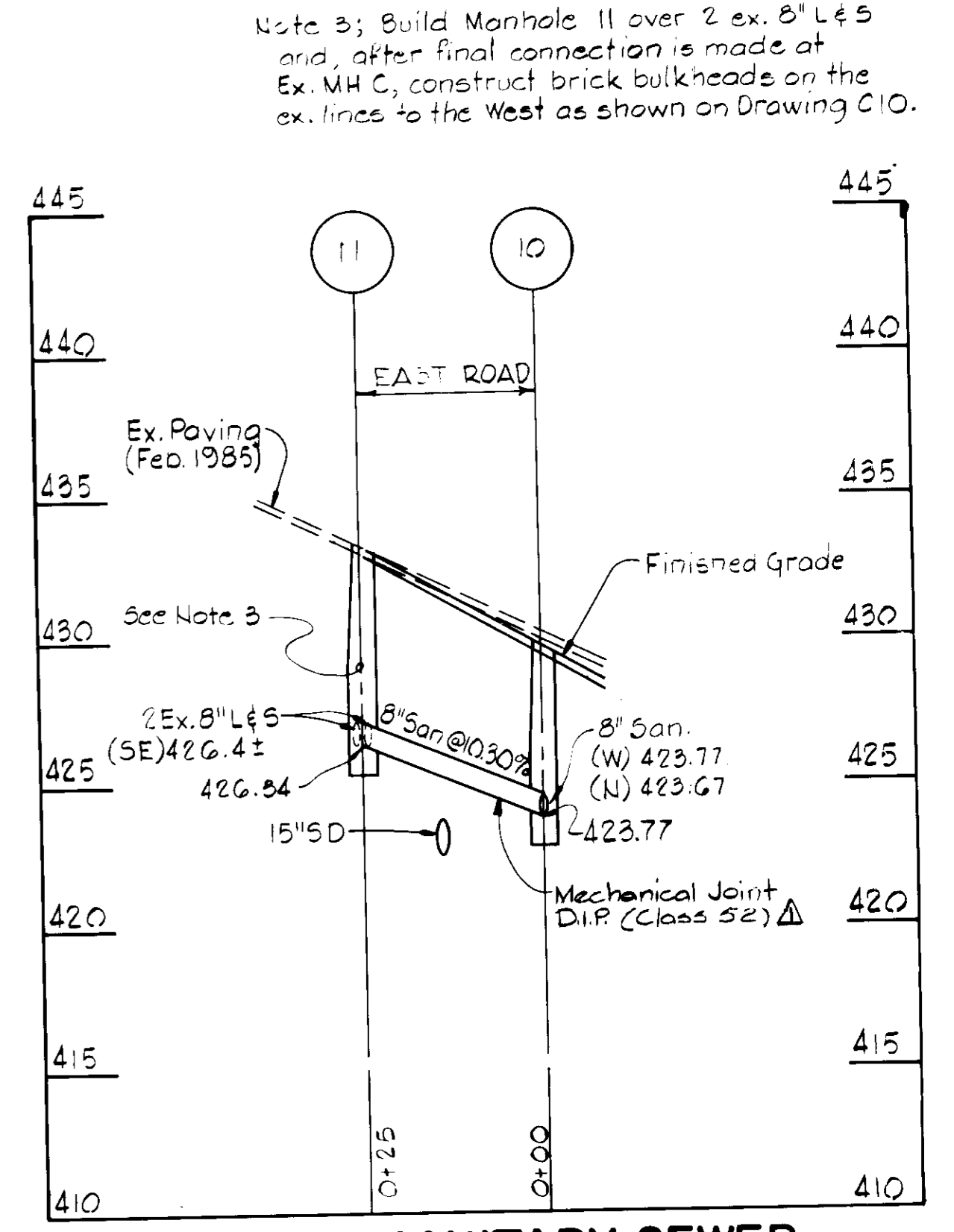
PROFILE-12 to EX. INLET

Note: For Storm Drain and Sanitary Sewer Structure Schedules and Plan, see Drawing C10.

APR
DIVISION OF LAND
ZONING ADMINISTRATION
HOWARD COUNTY
DATE 8-19-86



PROFILE-SANITARY SEWER



PROFILE-SANITARY SEWER

Note 2: Connect to ex. MH with Type 'E' Drop. See Howard County Standard Detail S1.32. Reconstruct channel after final connection is made at Ex. CB. Construct a brick bulkhead on the ex. 8\"/>

BUILDING ADDITION TO SDP-86-225

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



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: _____
Date: 5/29/86 Title: ASST. DIRECTOR

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT
APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

EAST SIDE UTILITY
RELOCATIONS-PROFILES
Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS
Added Notes & HGL 12-4-86

SCALE: H: 1"=20'
V: 1"=5'

SHEET NO. 11
OF 17

DATE: MAY 27, 1986

DRAWING
C11
OF

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

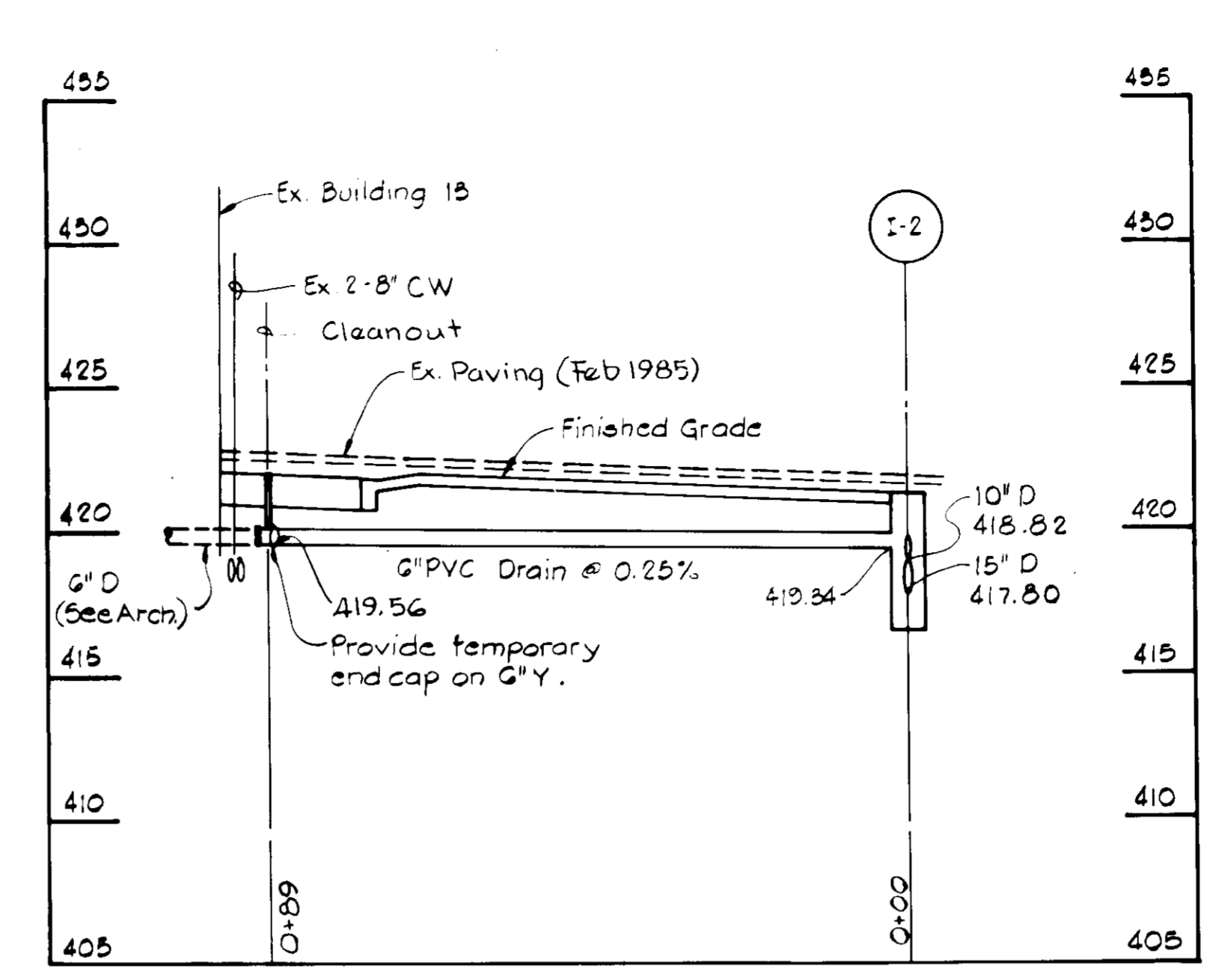
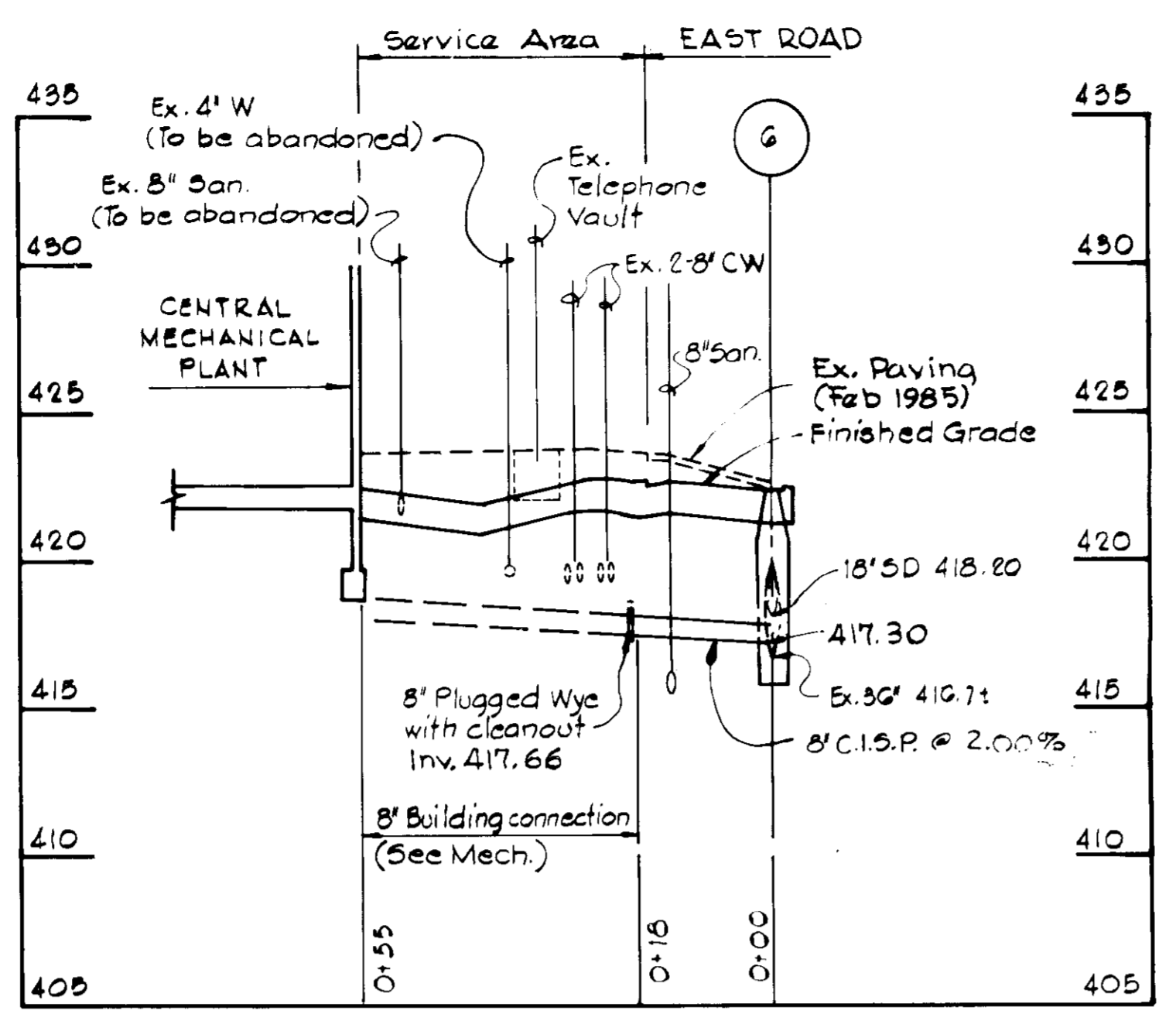
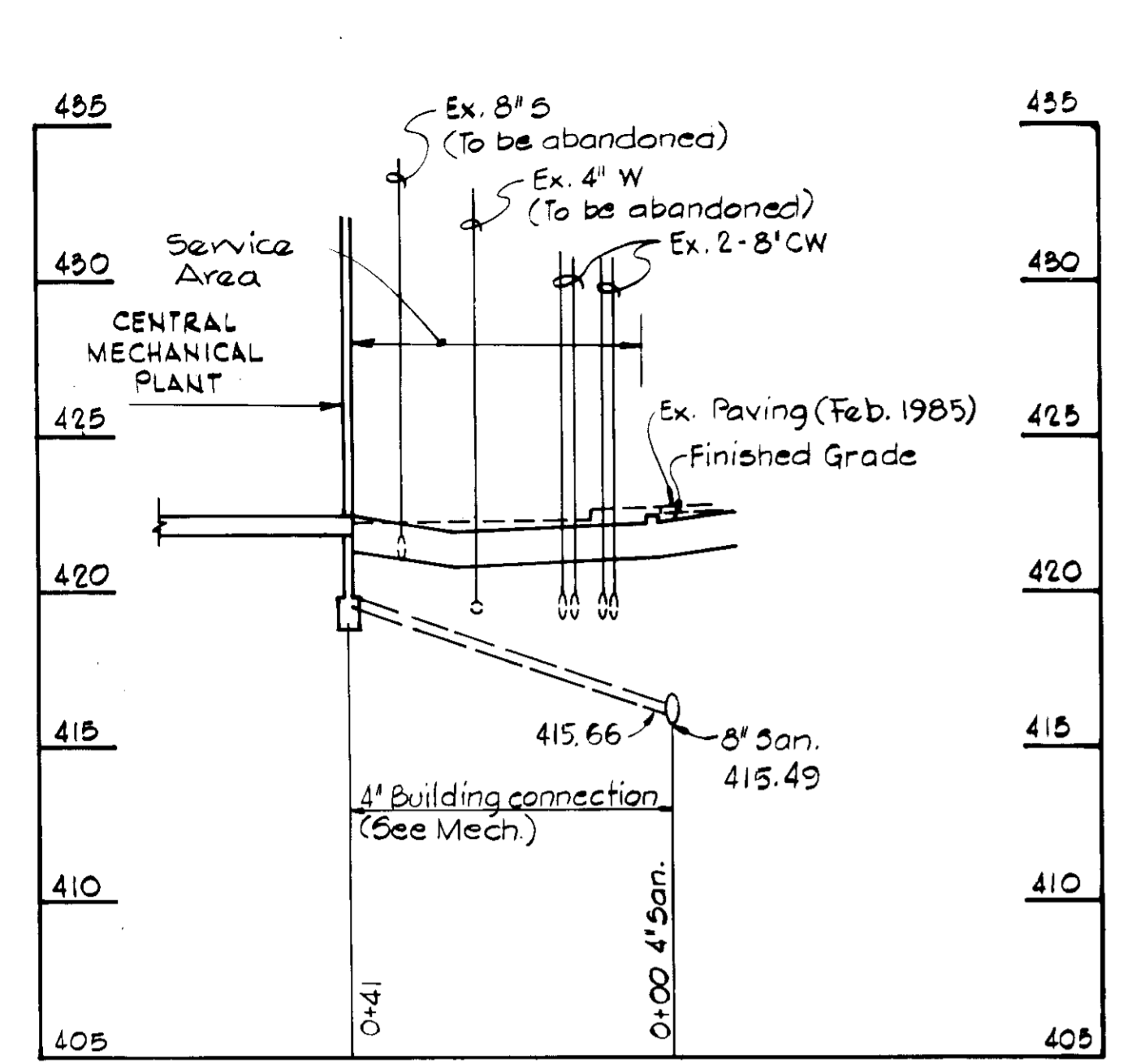
DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE 9-23-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

PLANNING DIRECTOR _____ DATE 9-30-86

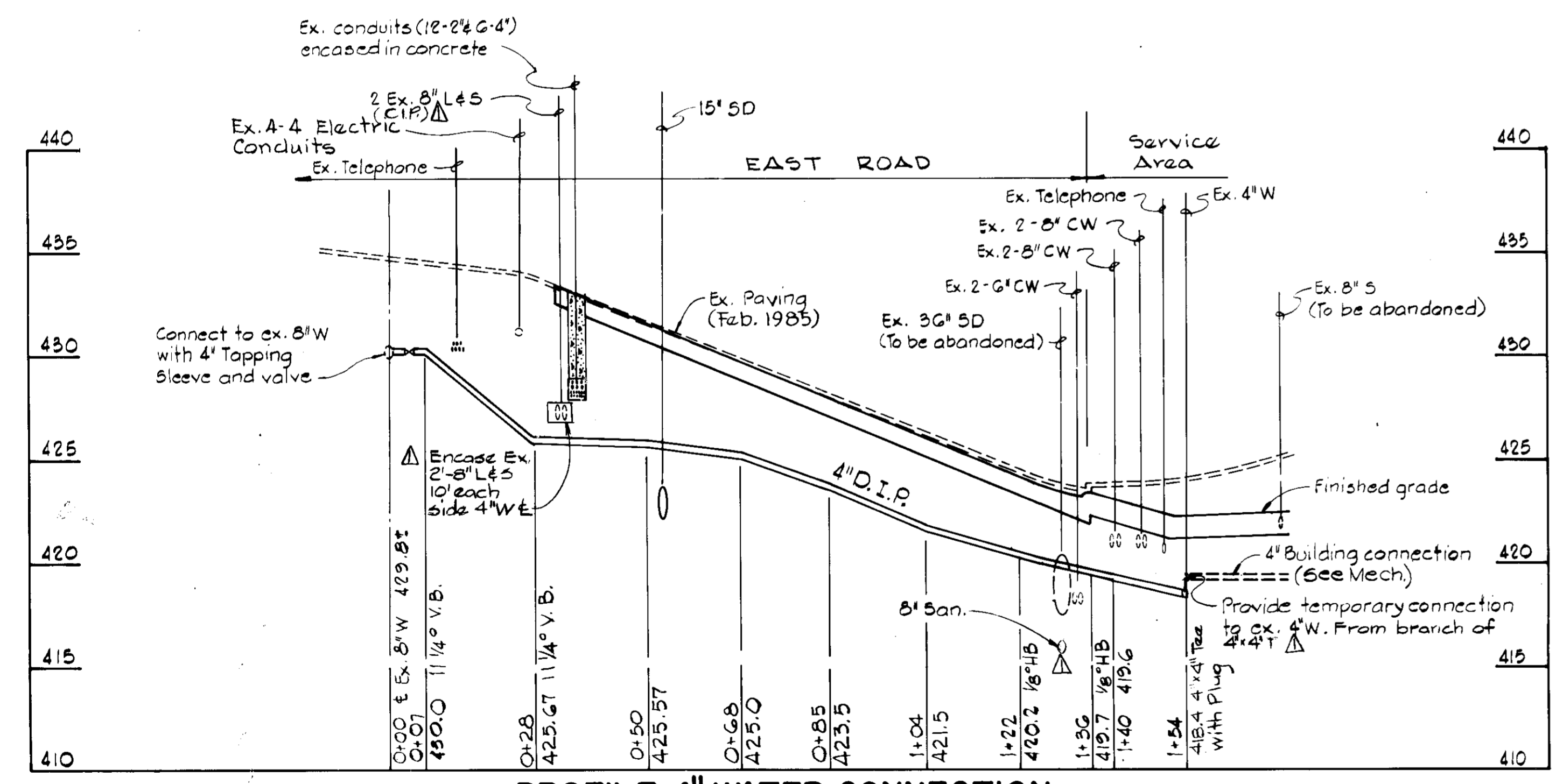
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION _____ DATE 9-30-86



PROFILE-4" SANITARY SEWER CONNECTION

PROFILE-8" DRAIN CONNECTION

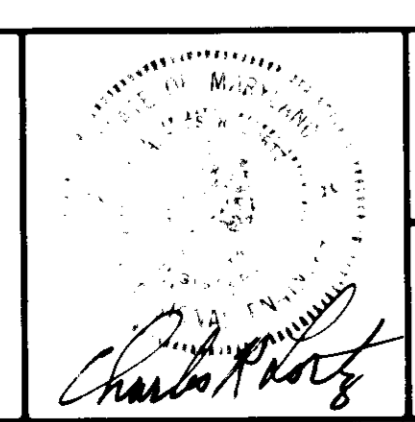
PROFILE-6" FOUNDATION DRAIN



PROFILE-4" WATER CONNECTION

APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY MARYLAND
DATE 8-19-86

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



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By _____
Date: 5/29/86 Title: ASST DIRECTOR

BUILDING ADDITION TO SDP-86-225

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

EAST SIDE UTILITY
RELOCATIONS- PROFILES

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

Move 4" DIP & Added Notes 12-4-86

SCALE: H-1"=20'
V-1"=5'

SHEET NO. 12
OF 17

DATE: MAY 27, 1986

DRAWING
C12
OF

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

William B. Ray 9-23-86
CHIEF, BUREAU OF ENGINEERING DATE

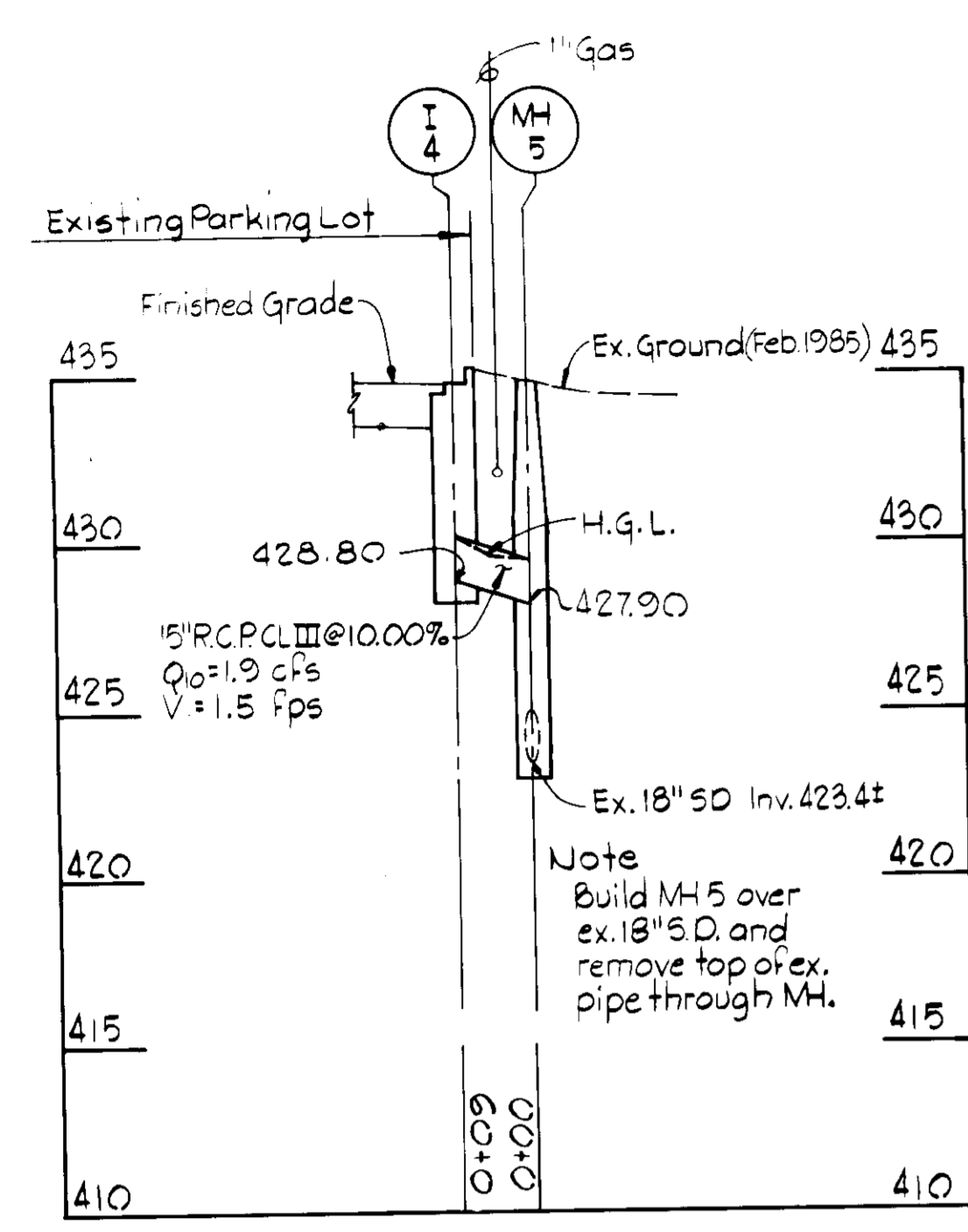
APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

Thomas A. Ming 7-30-86
PLANNING DIRECTOR DATE

William M. Meehan 9-30-86
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
AND ZONING ADMINISTRATION

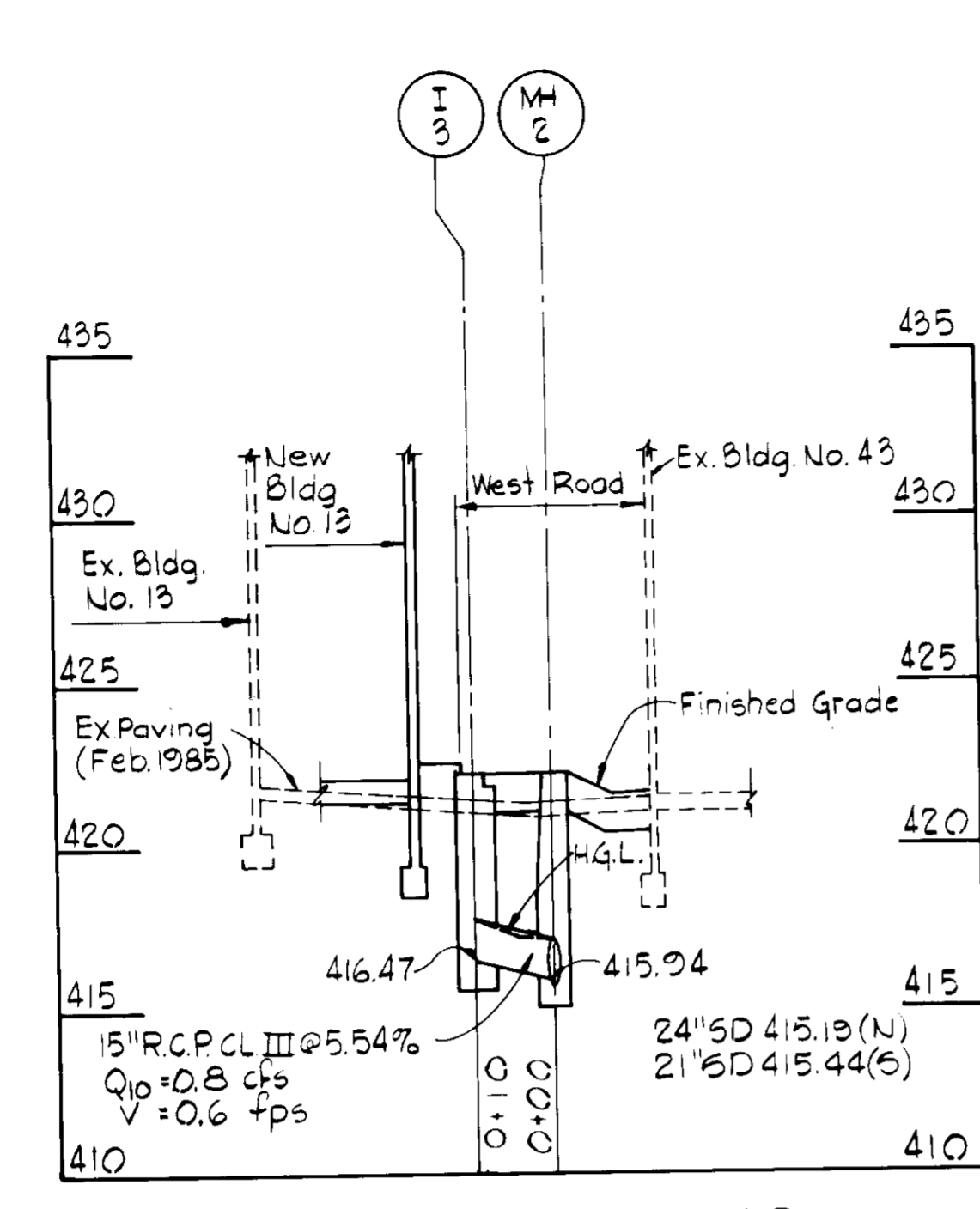
NOTE:
For Storm Drain Structure Schedule,
See Drawing No. C10. For Plan, See
Drawing Nos. C9 and C10.

APPROVED:
DIVISION OF LAND DEVELOPMENT
AND ZONING
HOWARD COUNTY, MARYLAND
DATE 8-19-86
W. M. Meehan



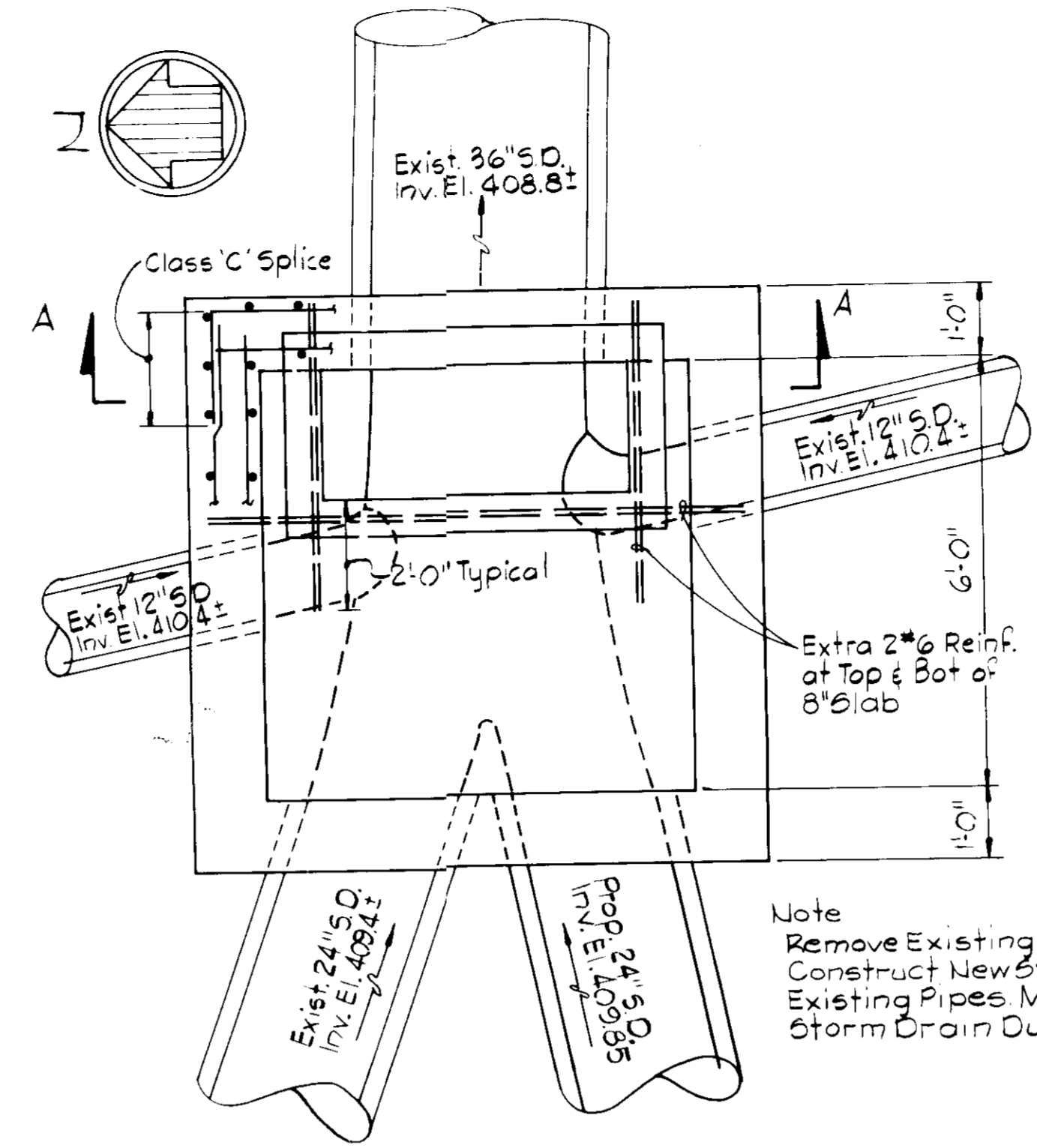
PROFILE-14 to M.H.5

Scale: H 1"=20'
V 1"=5'



PROFILE-13 to M.H.2

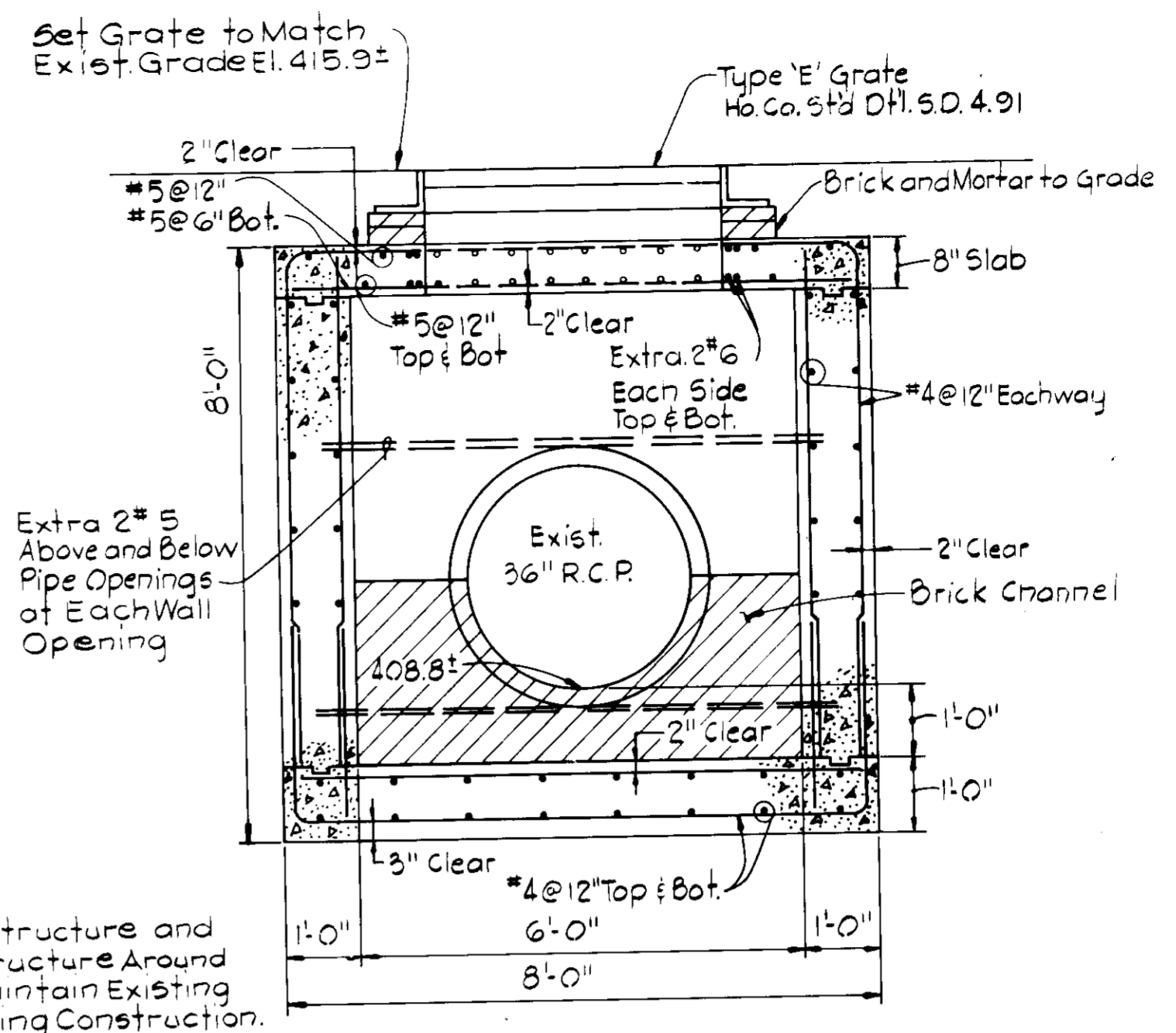
Scale: H 1"=20'
V 1"=5'



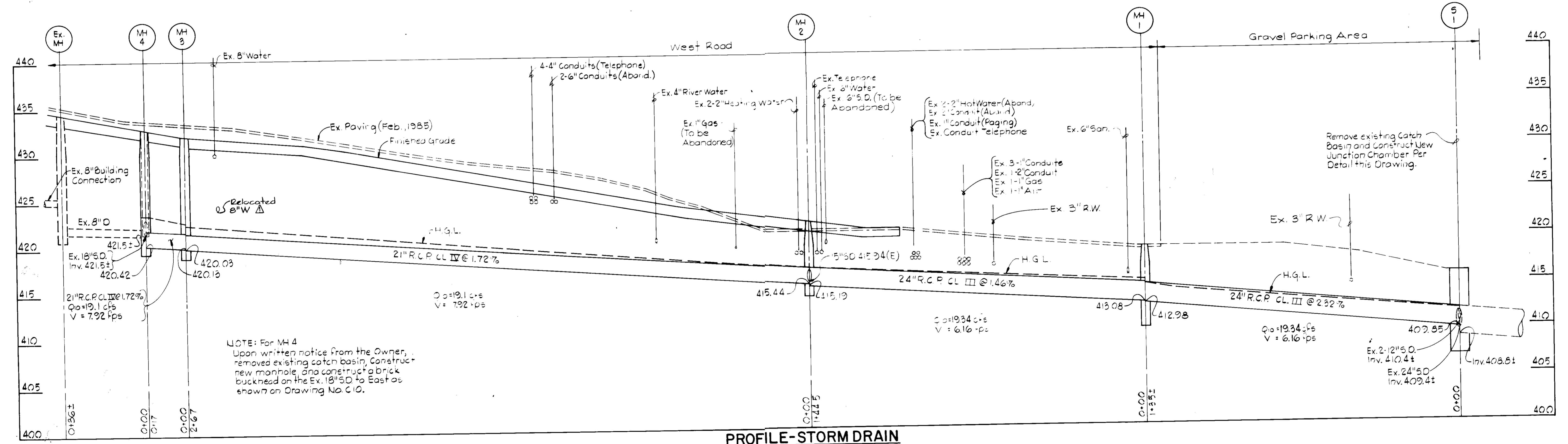
PLAN

DETAIL-STRUCTURE S1

Scale: 1/2"=1'-0"



SECTION A-A



PROFILE-STORM DRAIN

Scale: H 1"=20'
V 1"=5'

BUILDING ADDITION TO SDP-86-225

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

JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: *[Signature]*
Date: 5/29/86 Title: ASST. DIRECTOR

NEW BUILDING, 13
AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

WEST SIDE
UTILITY RELOCATIONS
PROFILES AND DETAILS

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

Relocated 8" W 12-4-86

SCALE: AS SHOWN

SHEET NO. 13
OF 17

DATE: MAY 27, 1986

DRAWING
C13
OF
SDP-86-262

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC SEWER AND
PUBLIC WATER SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

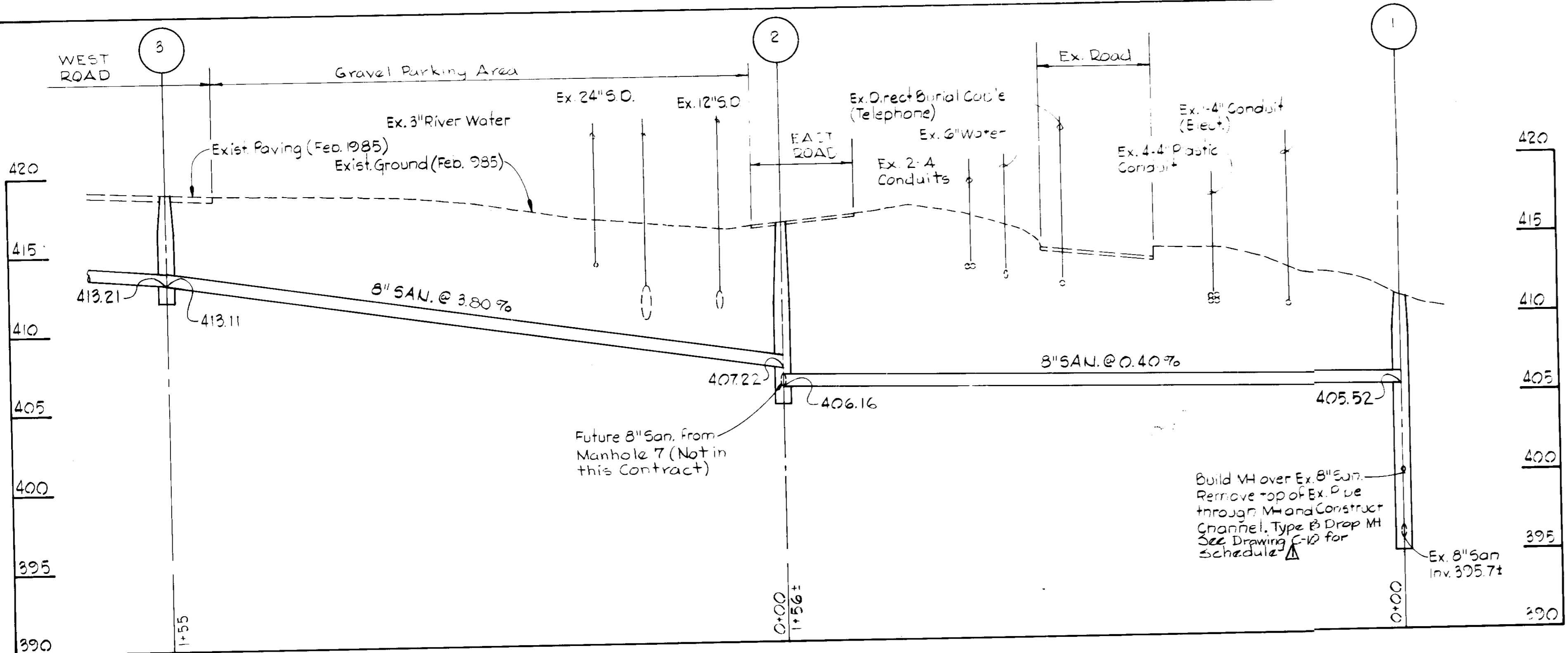
William B. Kelly 9-22-86
CHIEF, BUREAU OF ENGINEERING

APPROVED - HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

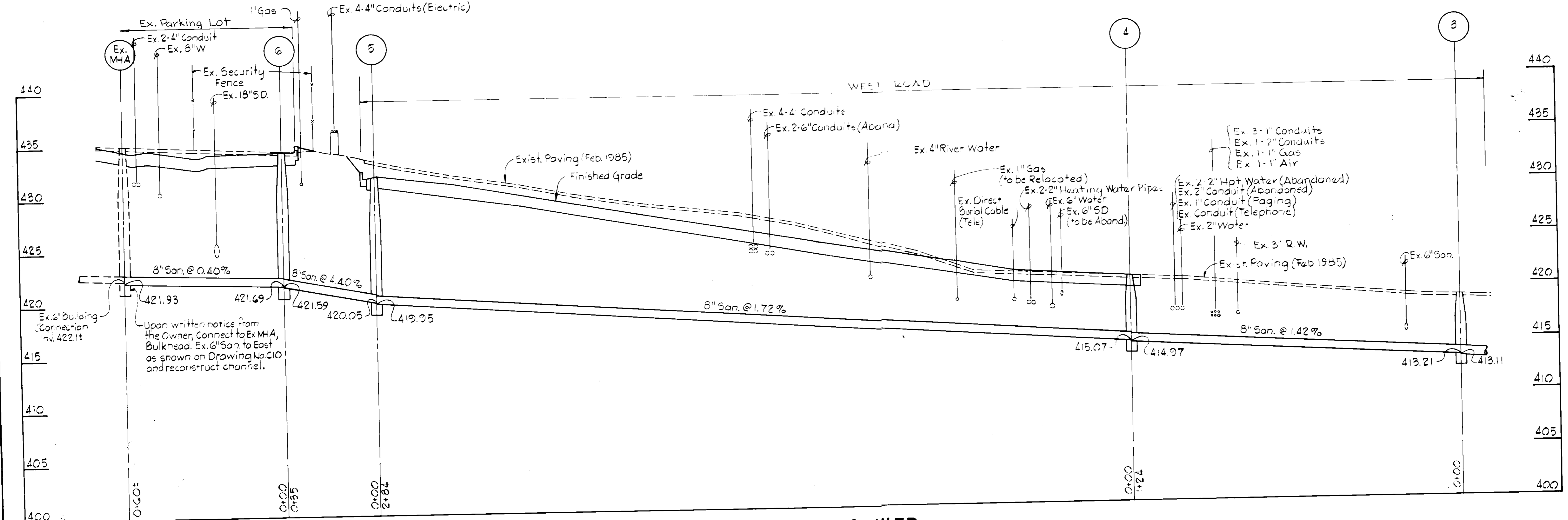
William B. Kelly 9-30-86
PLANNING DIRECTOR

William B. Kelly 9-30-86
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION

NOTE:
For Sanitary Sewer Structure Schedule
and Plan, See Drawing No. C10.



PROFILE - SANITARY SEWER



PROFILE - SANITARY SEWER

DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY
DATE 8-19-86
W. B. Kelly

WHITMAN, REQUARDT AND ASSOCIATES CIVIL & STRUCTURAL ENGINEERS 2315 SAINT PAUL STREET BALTIMORE, MARYLAND 21218		JAMES GOLDSTEIN & PARTNERS ARCHITECTS 225 MILLBURN AVENUE MILLBURN, NEW JERSEY 07041	APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY Approved For The University By <i>[Signature]</i> Date: 5/24/86 Title: ASST. DIRECTOR	BUILDING ADDITION TO SDP-86-225 NEW BUILDING 13 AND ASSOCIATED DEVELOPMENT APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY 11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707	WEST SIDE UTILITY RELOCATIONS- PROFILES Fifth Election District Howard County, MD Tax Map 41 Parcel 50 and 123	REVISIONS Added Note 12-4-86	SCALE: H-1"=20' V-1"=5' SHEET NO. 14 OF 17 DATE: MAY 27, 1986	DRAWING C14 OF
		HENRY ADAMS, INC. MECHANICAL & ELECTRICAL ENGINEERS 500 BALTIMORE AVENUE BALTIMORE, MARYLAND	SDP-86-262					

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS - HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

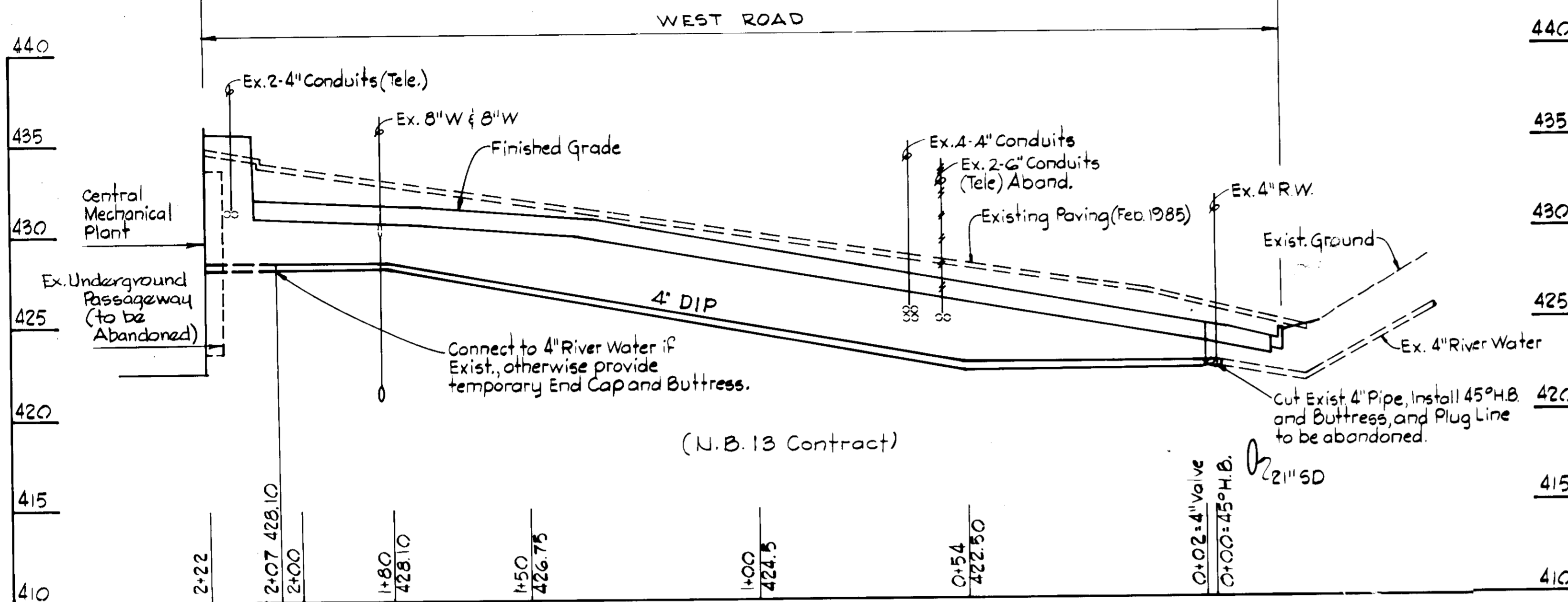
DIRECTOR DATE

CHIEF, BUREAU OF ENGINEERING DATE

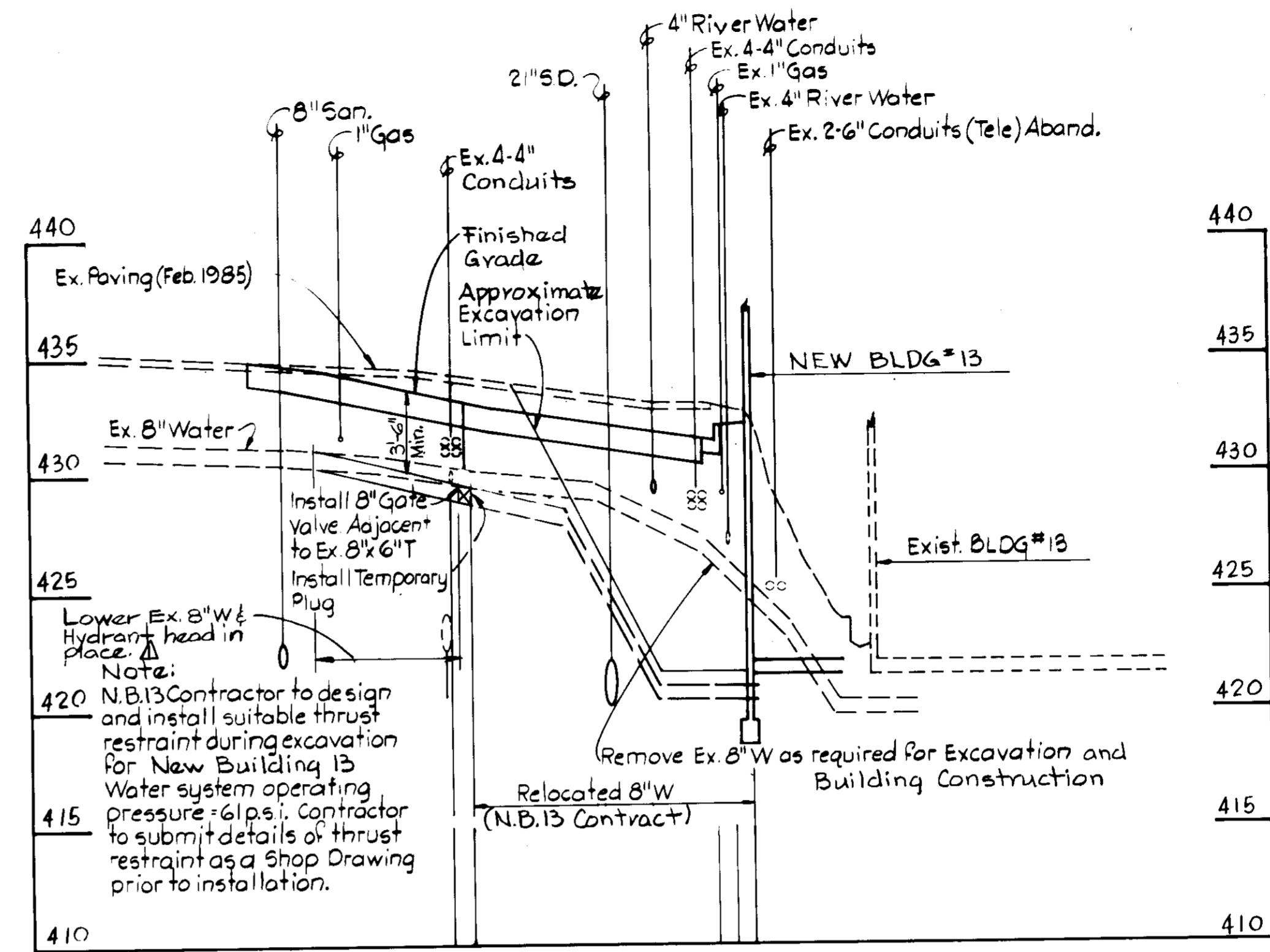
APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

PLANNING DIRECTOR DATE

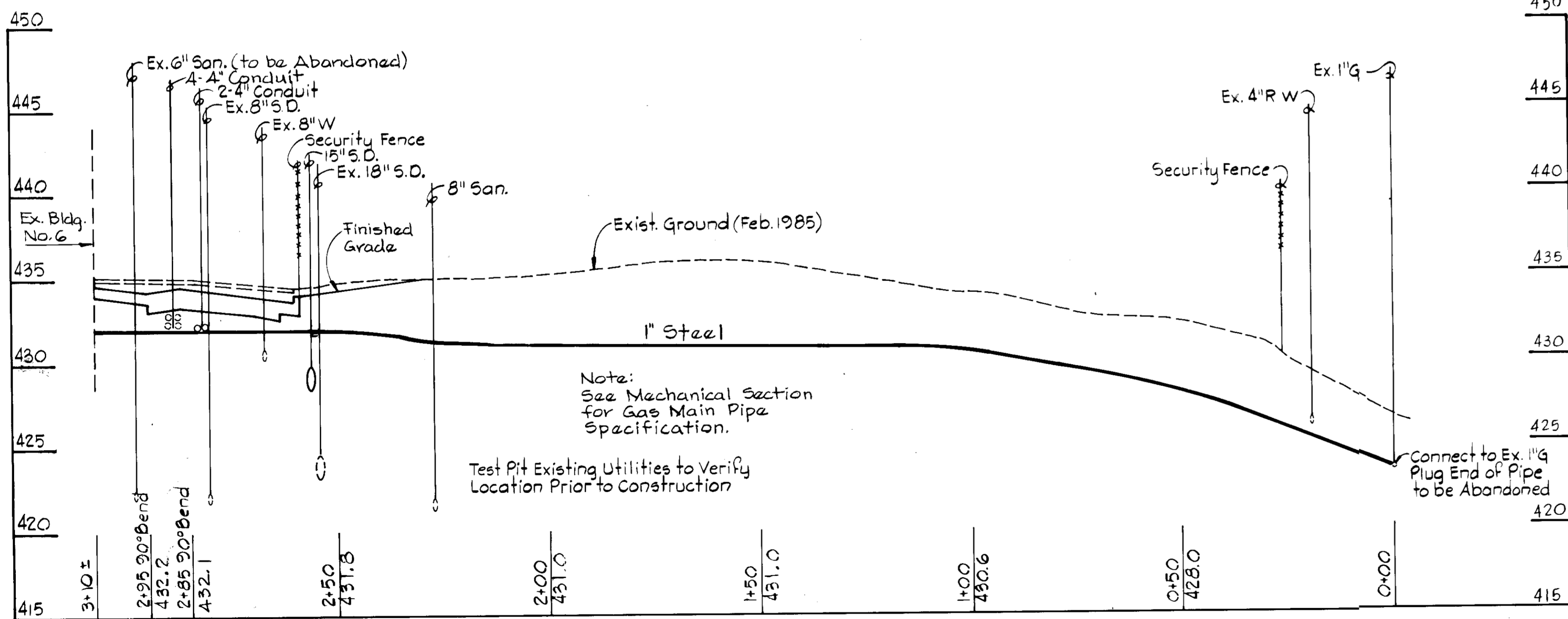
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION DATE



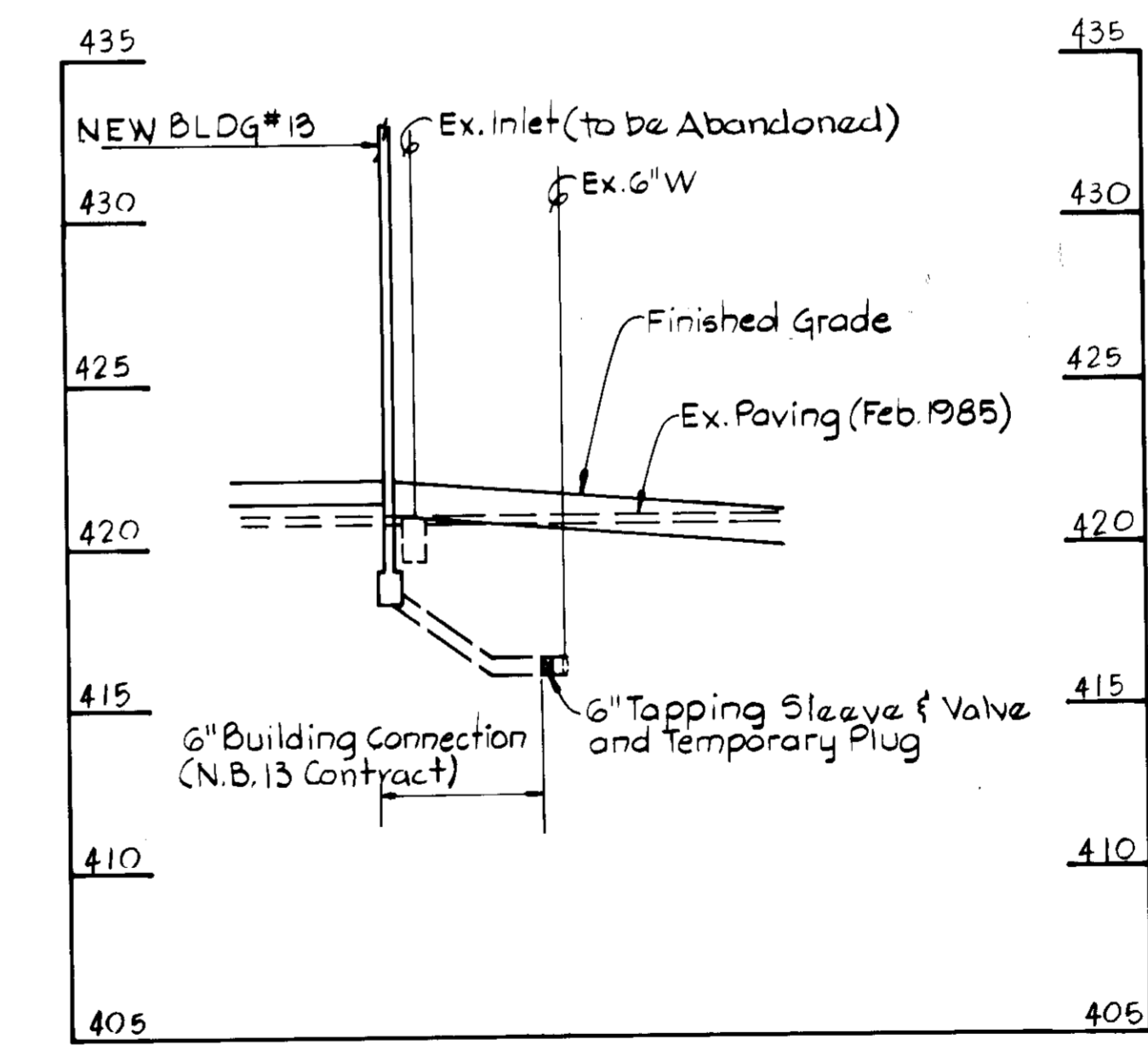
PROFILE - 4" RIVER WATER



PROFILE - 8" WATER CONNECTION



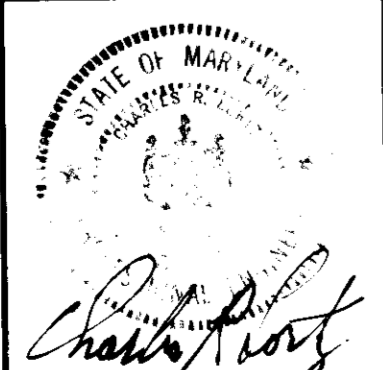
PROFILE - 1" GAS



PROFILE - 6" WATER CONNECTION

APPROVED
DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION
HOWARD COUNTY
DATE 8-19-86
[Signature]

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



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: [Signature]
Date: 5/29/86 Title: ASST DIRECTOR

BUILDING ADDITION TO SDP-86-225

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

WEST SIDE UTILITY
RELOCATIONS- PROFILES

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

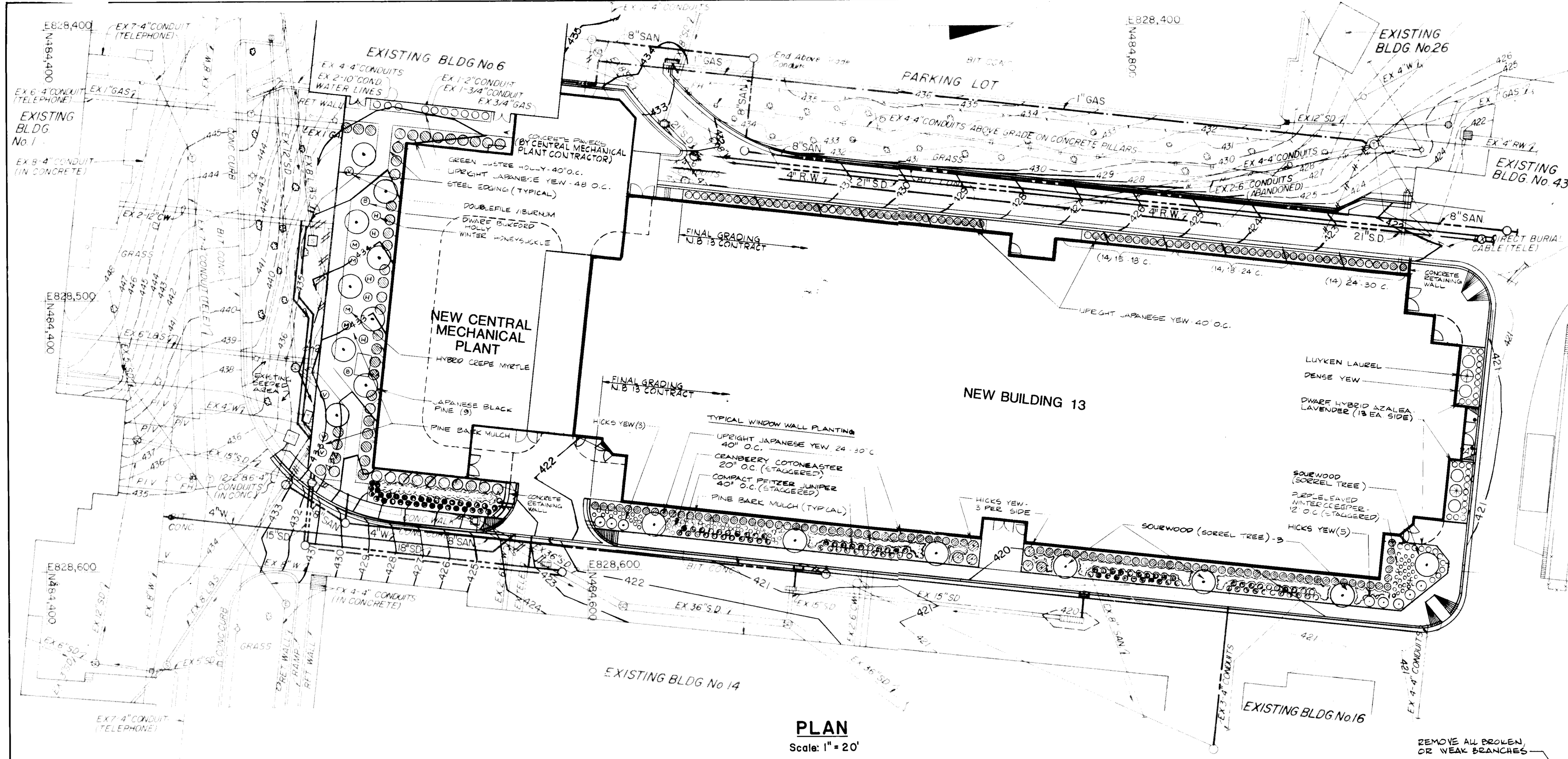
REVISIONS
Lower Ex. 8" W 12-4-86

SCALE: H=1"=20'
V=1"=5'

SHEET NO. 15
OF 17

DATE: MAY 27, 1986

DRAWING
C 15
OF



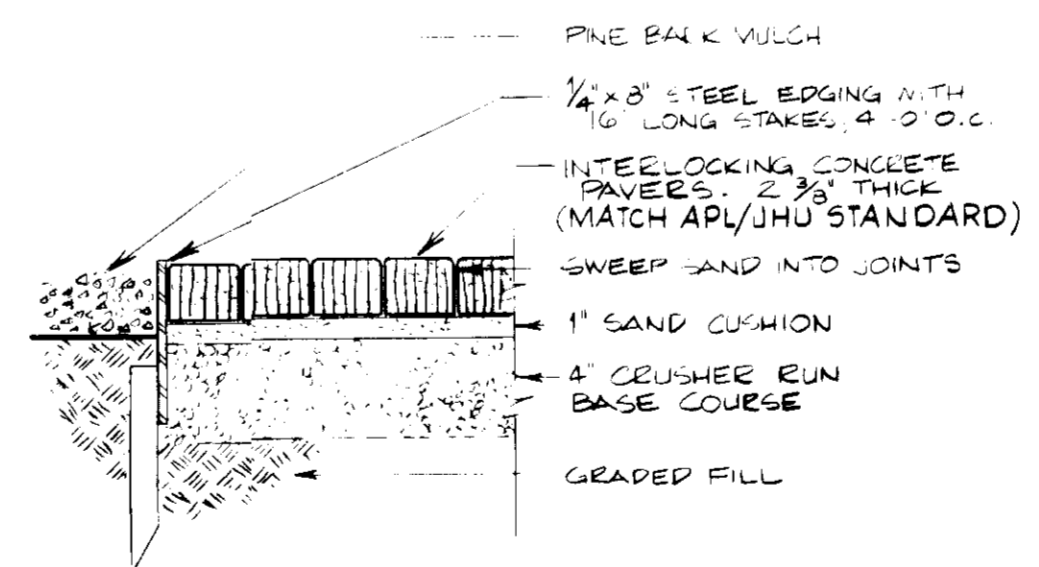
PLAN
Scale: 1" = 20'

PLANT LIST

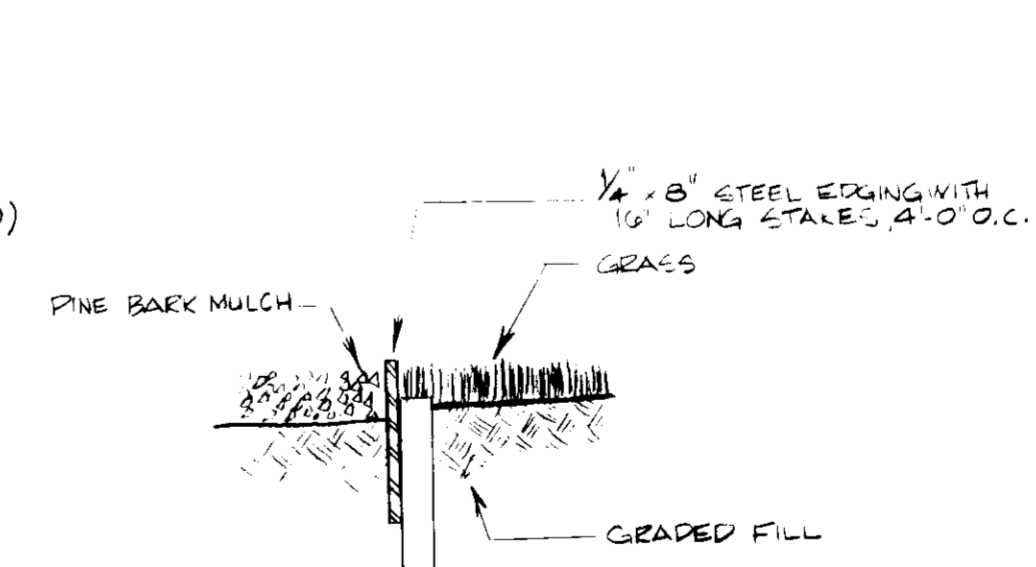
QTY	BOTANICAL NAME	COMMON NAME	SIZE
26	AZALEA POUKHAENSIS	DWARF HYBRID AZALEA	15"-18" C.
252	COTONEASTER APICULTAUS	CRANBERRY COTONEASTER	12"-15" C.
30	EUONYMUS FORTUNEI COLORATHUS	PURPLELEAVED WINTERCREEPER	9"-12" C.
2	ILEX CORNATA BURFORDII	DWARF CHINESE BURFORD HOLLY	20"-24" C.
10	ILEX CRENATA GREEN LUSTRE	GREEN LUSTER HOLLY	12"-14" C.
120	JUNIPERUS PFITZERIANA COMPACTA	COMPACT PFITZER JUNIPER	15"-18" C.
4	LAGERSTROEMIA INDICA	LAVENDER HYBRID CREPE MYRTLE	10 Ft. B&B
5	LONICERA FRAGRANTISSIMA	WINTER HONEYSUCKLE	2-3 Ft. B&B
7	OXYDENDRUM ARBOREUM	SOURWOOD (SORREL TREE)	15-18 Ft. B&B
9	PINUS THUNBERGI	JAPANESE BLACK PINE	7-8 Ft. B&B
2	PRUNUS LAUROCERASUS OTTO LUYKEN	OTTO LUYKEN LAUREL	18"-24" C.
67	TAXUS CUSPIDATA CAPITATA	UPRIGHT JAPANESE YEW	15"-18" C.
27	TAXUS CUSPIDATA CAPITATA	UPRIGHT JAPANESE YEW	18"-24" C.
125	TAXUS CUSPIDATA CAPITATA	UPRIGHT JAPANESE YEW	24"-30" C.
4	TAXUS CUSPIDATA DENSIFORMIS	DENSE JAPANESE YEW	24"-30" C.
14	TAXUS CUSPIDATA HICKSI	HICKS YEW	30"-36" C.
4	VIBURNUM TOMENTOSUM	DOUBLEFILE VIBURNUM	4 Ft. B&B

NOTES

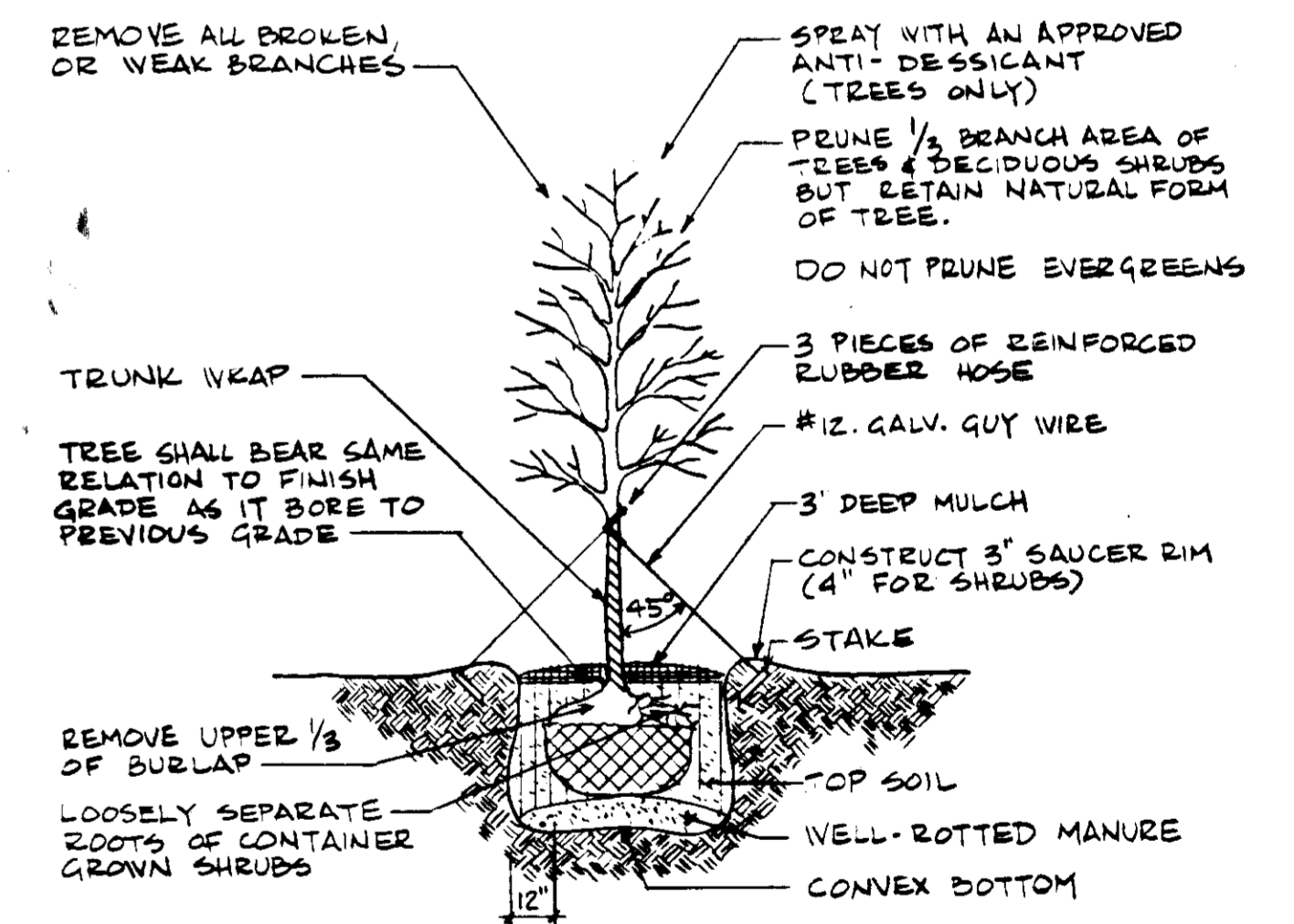
- GRASS SEED MIXTURE: (5 LBS PER 1000 SQ. FT.)
30% KENTUCKY BLUE - WIDE BLADE VARIETY
30% CREEPING BLUE
30% PERENNIAL RYE GRASS
MULCH: SEEDLESS STRAW, MIN. COVERAGE: 1" THICK
- ALL LANDSCAPING BY OWNER (APL/JHU).



PAVER DETAIL
No Scale



STEEL EDGING STRIP
No Scale



NOTES:

- FLOOD PLANTS TWICE WITHIN FIRST 3 WKS. OF PLANTING.
- NO FERTILIZER UNTIL APRIL 1ST OF SECOND YEAR.
- REMOVE STAKES AFTER SECOND SPRING.
- LIGHTLY COMPACT SOIL AROUND TREE OR SHRUB.

PLANTING DETAIL FOR TREES AND SHRUBS
No Scale

APPROVED FOR
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

John M. ... 9-26-86
COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC SEWER AND PUBLIC WATER
SYSTEMS-HOWARD COUNTY DEPARTMENT OF PUBLIC
WORKS

... 9-29-86
DIRECTOR DATE

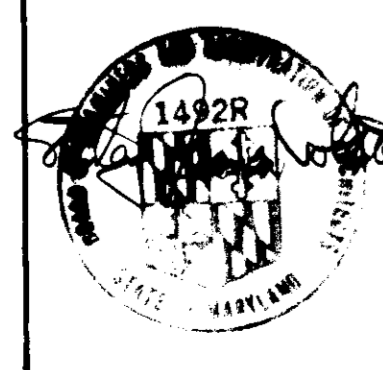
... 9-23-86
CHIEF BUREAU OF ENGINEERS DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING
AND ZONING

... 9-3-86
PLANNING DIRECTOR DATE

... 9-30-86
CHIEF DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION DATE

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 8-19-86
...



JAMES GOLDSTEIN & PARTNERS
ARCHITECTS
225 MILLBURN AVENUE
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
600 BALTIMORE AVENUE
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY

Approved For The University By: *C. J. Smith*
Date: 5/29/86 Title: ASST. DIRECTOR

NEW BUILDING 13
AND
ASSOCIATED DEVELOPMENT

APPLIED PHYSICS LABORATORY
THE JOHNS HOPKINS UNIVERSITY
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

LANDSCAPING PLAN

Fifth Election District Howard County, MD
Tax Map 41 Parcel 50 and 123

REVISIONS

SCALE: AS SHOWN
SHEET NO. 16
OF 17
DATE: MAY 27, 1986

DRAWING
C16
OF

