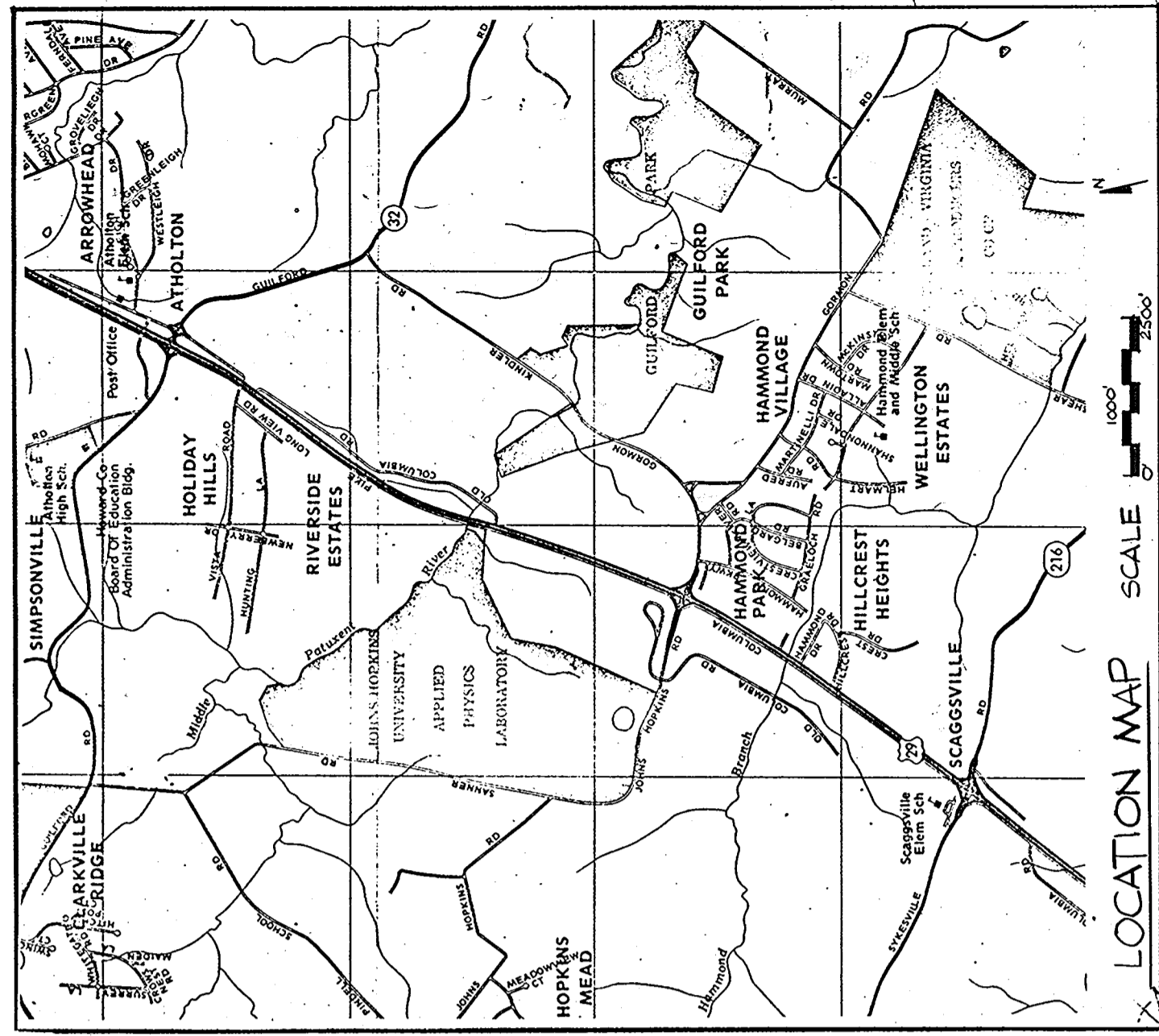


**GENERAL NOTES**

1. ALL TIE-DOWN SURVEY INFORMATION OBTAINED FROM TOPOGRAPHIC MAPS IS APPLIED TO THIS PLAN. ANY DISCREPANCY BETWEEN THE TOPOGRAPHIC MAPS AND THE SURVEY DATA SHALL BE RESOLVED BY THE ENGINEERS, SURVEYORS & PLANNERS IN FAVOR OF THE ENGINEERS, SURVEYORS & PLANNERS.
2. ZONING: R-2, R-3, R-4, R-5, R-6, R-7, R-8, R-9, R-10, R-11, R-12, R-13, R-14, R-15, R-16, R-17, R-18, R-19, R-20, R-21, R-22, R-23, R-24, R-25, R-26, R-27, R-28, R-29, R-30, R-31, R-32, R-33, R-34, R-35, R-36, R-37, R-38, R-39, R-40, R-41, R-42, R-43, R-44, R-45, R-46, R-47, R-48, R-49, R-50, R-51, R-52, R-53, R-54, R-55, R-56, R-57, R-58, R-59, R-60, R-61, R-62, R-63, R-64, R-65, R-66, R-67, R-68, R-69, R-70, R-71, R-72, R-73, R-74, R-75, R-76, R-77, R-78, R-79, R-80, R-81, R-82, R-83, R-84, R-85, R-86, R-87, R-88, R-89, R-90, R-91, R-92, R-93, R-94, R-95, R-96, R-97, R-98, R-99, R-100.
3. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE HANDBOOK OF CONSTRUCTION CODE AND SPECIFICATIONS.
4. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE HANDBOOK OF CONSTRUCTION CODE AND SPECIFICATIONS.
5. PARKING: EXISTING PLUS 500 VISITORS
6. NO. OCCUPANTS 2157
7. PARKING SPACES 2115
8. NO. OCCUPANTS 2325
9. WATER & SEWAGE SYSTEMS ARE PRIVATE. SEE NOTES BELOW.
10. TOTAL AREA OF PROPERTY IS 366 A.; AREA OF PARCEL 123 IS 127.58 A.



NOTE: THIS SDP IS A REVISION TO A PREVIOUSLY APPROVED SDP: FILE NO SDP 75-22 (BLDG) @ HND 11 30-46

\* FROM NOTE #6 ABOVE: INDIVIDUAL INTERIOR SEWER SYSTEMS ARE INTERIM AND SHALL BE DISCONTINUED AS PUBLIC/COMMUNITY WATER FACILITIES BECOME AVAILABLE AND CONNECTION THERETO IS REQUIRED BY THE AGENCY HAVING JURISDICTION.

**SITE DEVELOPMENT PLAN - LIST OF DWGS**

- DWG 1 OVERALL PROPERTY OUTLINE
- DWG 2 SITE DEVELOPMENT PLAN, DETAILS, NOTES & ELEVATION
- DWG 3 SOIL CONSERVATION, GRADING & DRAINAGE PROFILES
- DWG 4 PLAN SECTIONS OF STORM DRAINAGE SYSTEMS
- DWG 5 PLAN SECTIONS OF SEWAGE TREATMENT SYSTEMS

APPROVED: For Storm Drainage Systems and Roads  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Director: *[Signature]* 11-6-81 Date  
 Chief, Bureau of Engineering: *[Signature]* 11-5-81 Date

APPROVED: For Private Water and Private Sewerage Systems  
 HOWARD COUNTY DEPARTMENT OF HEALTH  
 County Health Officer: *[Signature]* 11-2-81 Date

APPROVED: Howard County Office of Planning and Zoning  
 Planning Officer: *[Signature]* 11-9-81 Date  
 Chief, Division of Land Development & Planning: *[Signature]* 11-9-81 Date

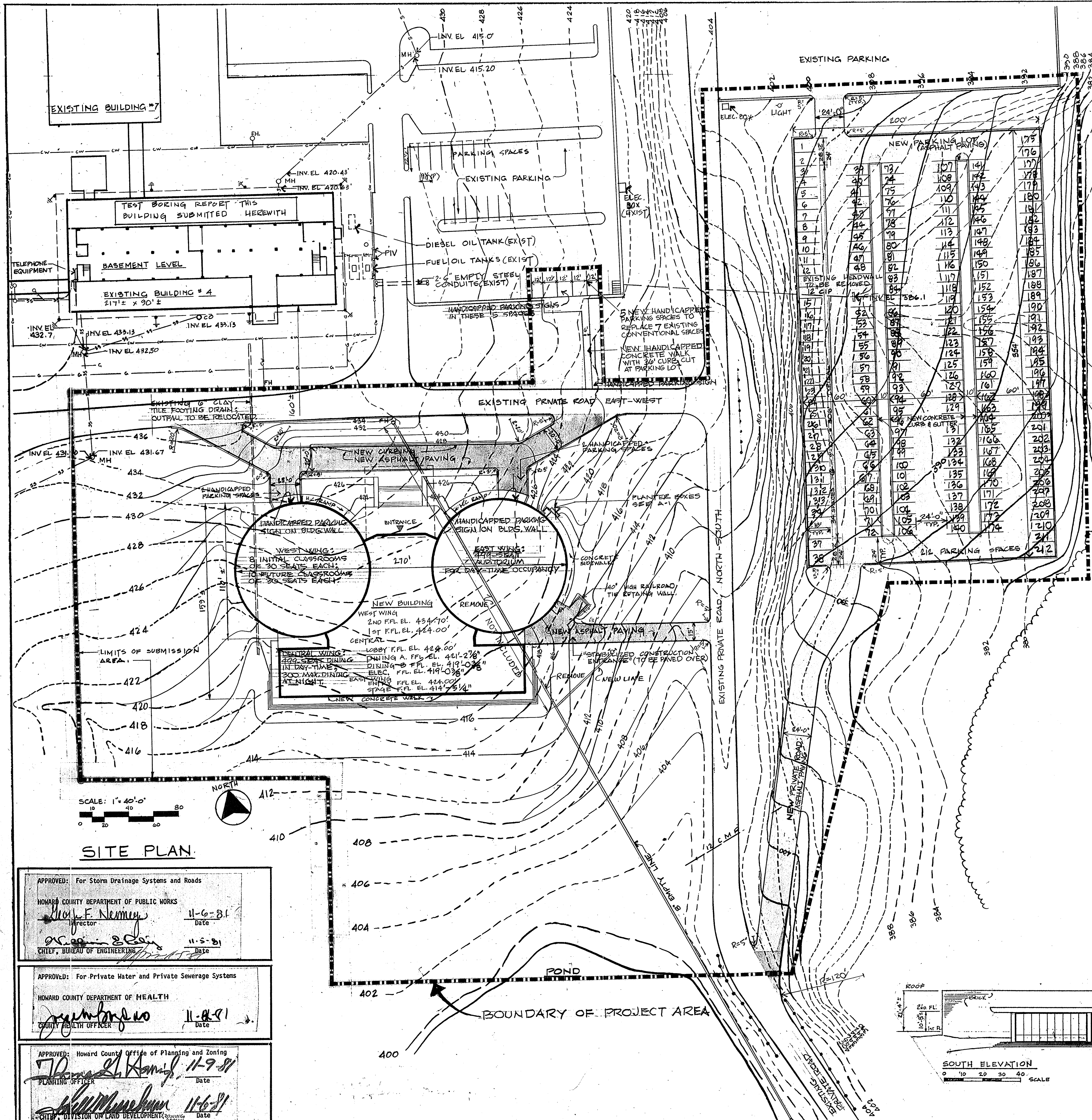
HERBERT A. WIENER, P.E. STRUCTURAL ENGINEER NEWARK, NEW JERSEY	ECONOMIDES & GOLDBERG MECHANICAL & ELECTRICAL ENGINEERS NEW YORK CITY, NEW YORK
BOLT, BERANEK & NEWMAN ACOUSTIC CONSULTANTS	KOZMA ASSOCIATES CIVIL ENGINEERS

**JAMES GOLDSTEIN & PARTNERS ARCHITECTS**  
 14929 MILLBURN AVE., MILLBURN, NJ 07041  
 S. JAMES GOLDSTEIN

DEED INFO: LIBER MWB 234 FOLIO 336 ELECTION DIST. NO. 5 TAX MAP 41 PARCEL NO. 123

**AUDITORIUM & CLASSROOM BUILDING OVERALL PROPERTY OUTLINE**  
 THE JOHNS HOPKINS UNIVERSITY  
 JOHN HOPKINS ROAD, HOWARD COUNTY, MARYLAND  
 APPLIED PHYSICS LABORATORY UNIVERSITY  
 APPROVED FOR THE UNIVERSITY BY: *[Signature]* P.E. TITLE: PLANT ENGINEER  
 DATE: 9-4-81 SCALE: AS SHOWN DWN: JS CRP: MD, SJG

THIS DRAWING IS INCOMPLETE UNLESS USED WITH ALL OTHER CONTRACT DOCUMENTS.  
 DRAWING NUMBER  
**1**  
 OF 5



NEW PARKING LOT (ASPHALT PAVING)

1	175
2	176
3	177
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72	246

**SITE ANALYSIS:**

a. Area of Parcel: 127.38 AC (PARCEL 123)

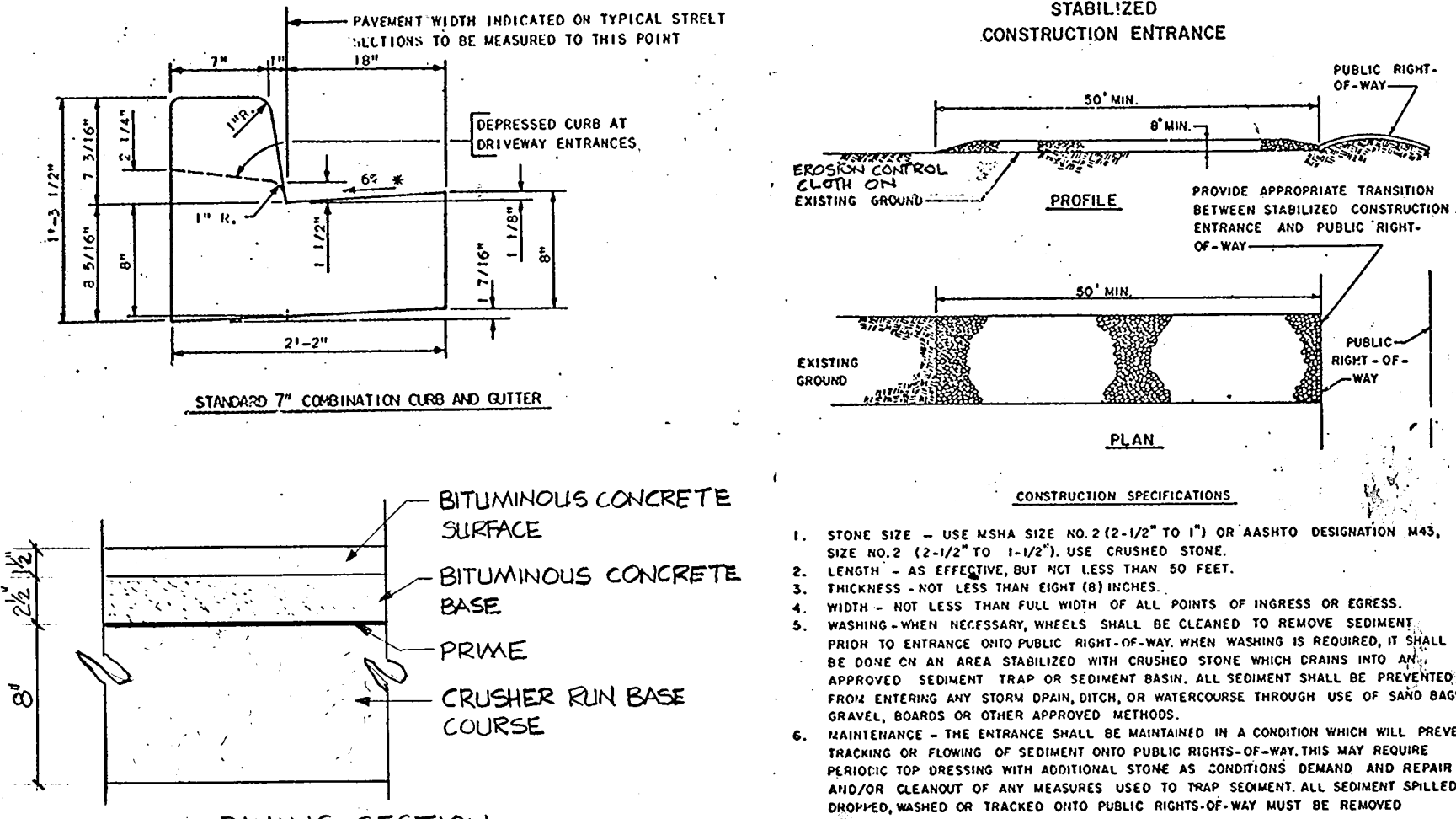
b. Present Zoning: (R)

c. Floor space on each level of buildings:  
 GROUND LEVEL: 35,000 SQ. FT. ±  
 SECOND LEVEL: 11,000 SQ. FT. ±

d. Employees, tenants on site: 2575

e. Number of parking spaces required by Howard County Zoning Regulations: AUDITORIUM: 1 SPACE PER 75 OCCUPANTS = 167  
 CLASSROOMS: 1 SPACE PER 100 OCCUPANTS = 497/100 = 4.97 ≈ 5  
 TOTAL: 167 + 5 = 172

f. Number of parking spaces provided on site: 221 RELATED TO THIS NEW PROJECT



**PAVING SECTION**

ABOVE DETAILS TAKEN FROM THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION

**NOTES:**

1. SEEDING: PERMANENT BLUE GRASS & FESCUE, 50 LBS./ACRE EACH. SEEDED POST-OCCUPANCY. LIME & FERTILIZER TYPES & APPLICATION RATES, MULCH APPLICATION RATES, & METHOD OF APPLICATION OF MULCH TAKING, SHALL ALL COMPLY WITH HOWARD COUNTY SOIL CONSERVATION REGULATIONS.

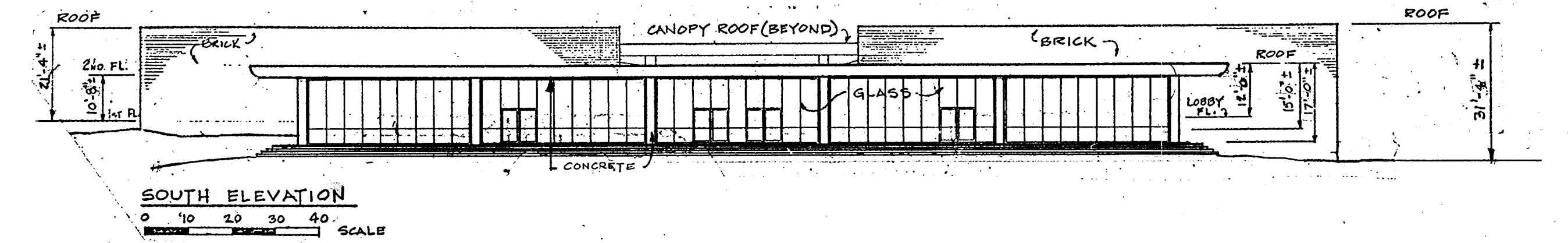
2. **SITE ANALYSIS:**

TOTAL AREA OF SUBMISSION	371,550 SQ. FT. ±
AREA DISTURBED	459,000 SQ. FT. ±
AREA VEGETATED	259,000 SQ. FT. ±
AREA IMPERVIOUS	111,950 SQ. FT. ±
AREA UNDISTURBED	152,400 SQ. FT. ±

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-14-81  
*Jam*

**3. CONSTRUCTION SEQUENCE:**

ITEM	COMPLETION DATE	WORK
A. OBTAIN GRADING PERMIT	SEPT 1981	BLDG. CONTRACTOR
B. INFORM HO. CO. DEPT. OF INSPECTIONS & PERMITS		
72 HOURS PRIOR TO STARTING CONSTRUCTION	SEPT. 1981	"
C. INSTALL SEDIMENT CONTROL DEVICES AT BUILDING SITE	SEPT 1981	"
D. ROUGH GRADE BUILDING SITE	SEPT 1981	"
E. INSTALL STORM DRAINS AND BEGIN BUILDING CONSTRUCTION	SEPT 1981	"
F. INSTALL SEDIMENT CONTROL DEVICES AT PARKING LOT SITE	JUNE 1982	PAVING CONTRACTOR
G. ROUGH GRADE PARKING LOT SITE	JUNE 1982	"
H. INSTALL STORM DRAINS AND BEGIN PARKING LOT CONSTRUCTION	JUNE 1982	"
I. SEED AND LANDSCAPE	SEPT. 1982	OWNER



NOTE: THIS SDP IS A REVISION TO A PREVIOUSLY APPROVED SDP: FILE NO SDP 75-22 (BLDG B) # 80-96

**APPROVED:** For Storm Drainage Systems and Roads  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*W. F. Nemey* 11-6-81  
 Director Date

**APPROVED:** For Private Water and Private Sewerage Systems  
 HOWARD COUNTY DEPARTMENT OF HEALTH  
*W. J. ...* 11-5-81  
 COUNTY HEALTH OFFICER Date

**APPROVED:** Howard County Office of Planning and Zoning  
*Thomas ...* 11-9-81  
 PLANNING OFFICER Date

**APPROVED:** DIVISION OF LAND DEVELOPMENT & ZONING  
*...* 11-6-81  
 DATE

**JAMES GOLDSTEIN & PARTNERS ARCHITECTS**  
 225 MILLBURN AVE., MILLBURN, NEW JERSEY 07041

**APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY**  
 JOHN HOPKINS ROAD, HOWARD COUNTY, MARYLAND

**AUDITORIUM & CLASSROOM BUILDING SITE DEVELOPMENT PLAN**  
 DETAILS, NOTES & ELEVATION

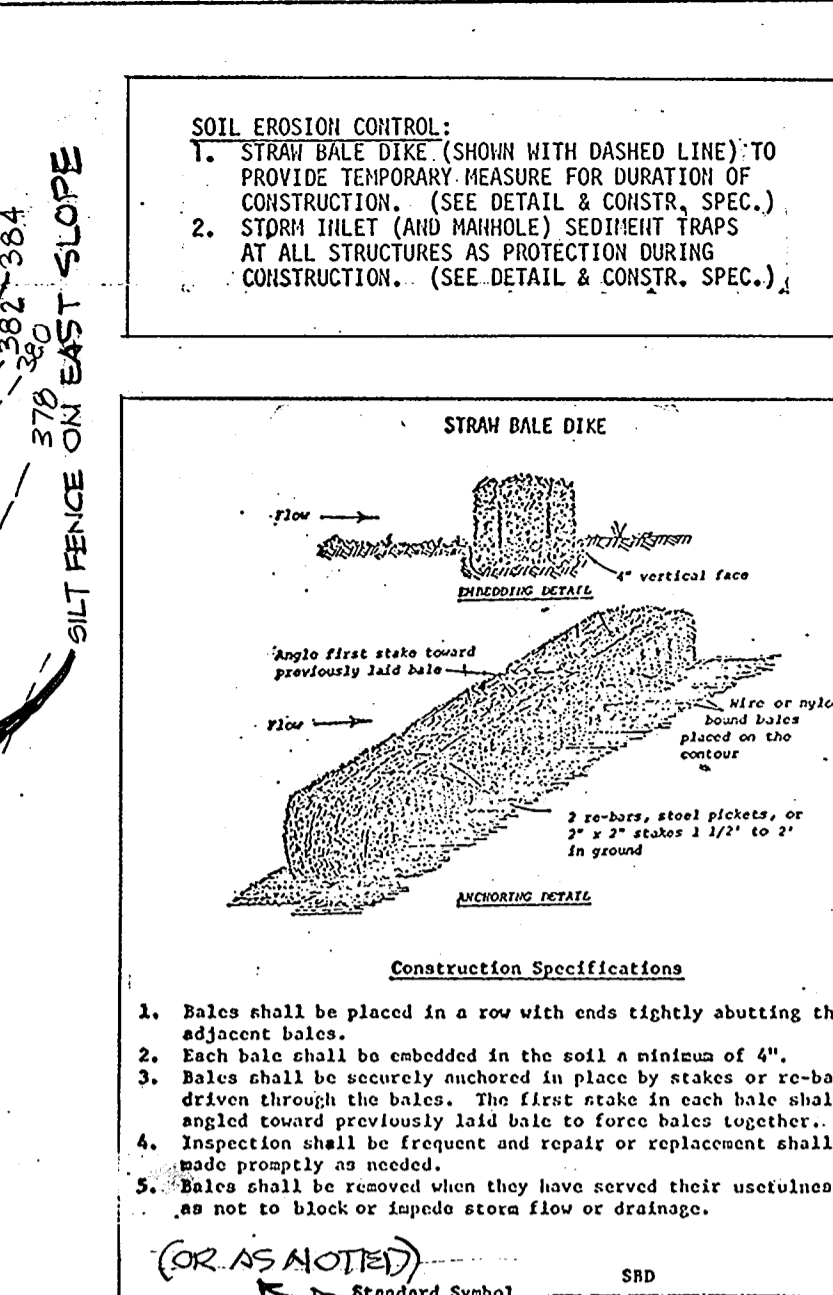
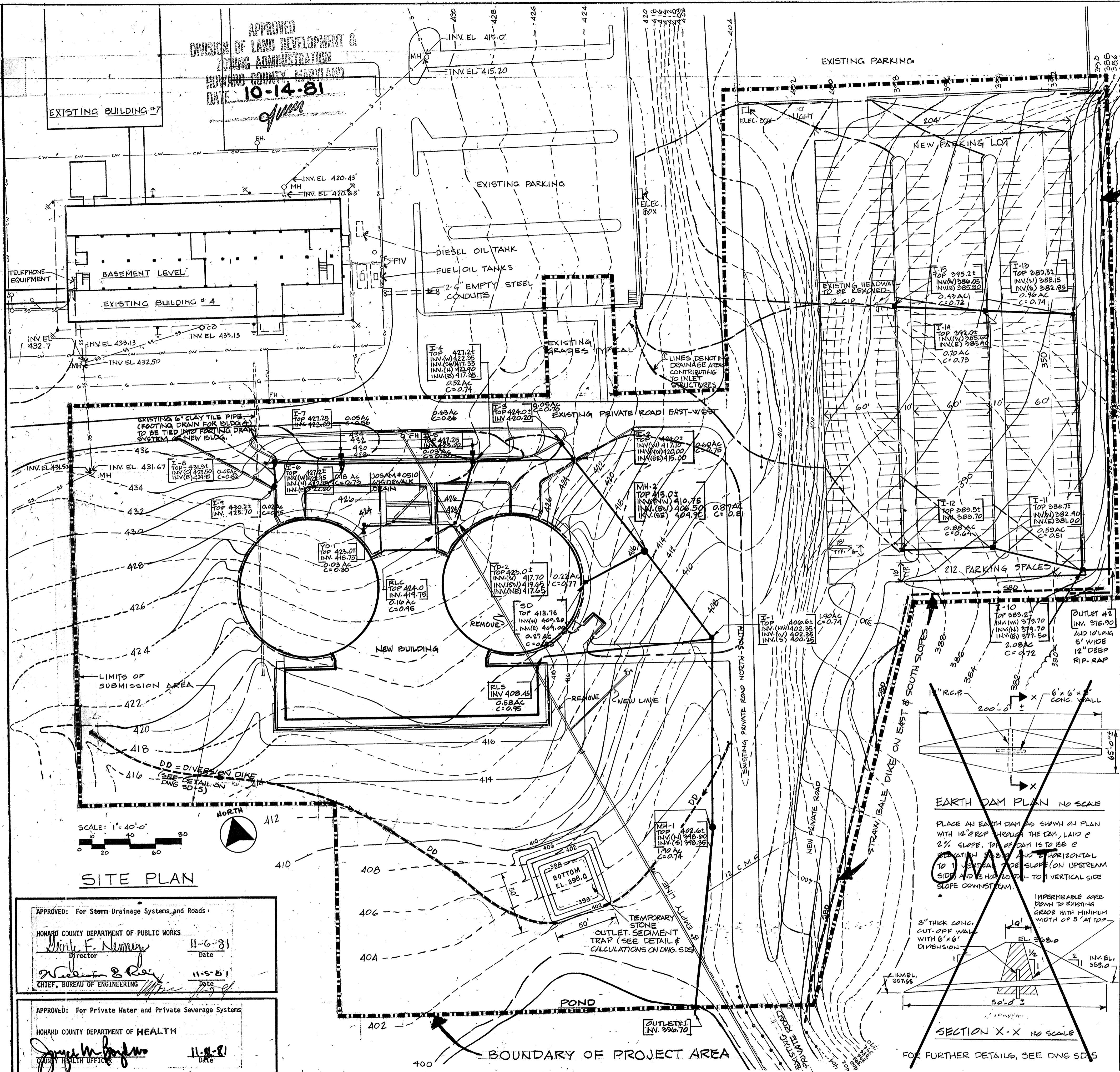
ELECTION DISTRICT 195 PARCEL No 133 TAX MAP 41

APPROVED FOR THE UNIVERSITY BY: *...* TITLE: PLANT ENGINEER DATE: 9-4-81

SCALE: AS SHOWN DWR: IS

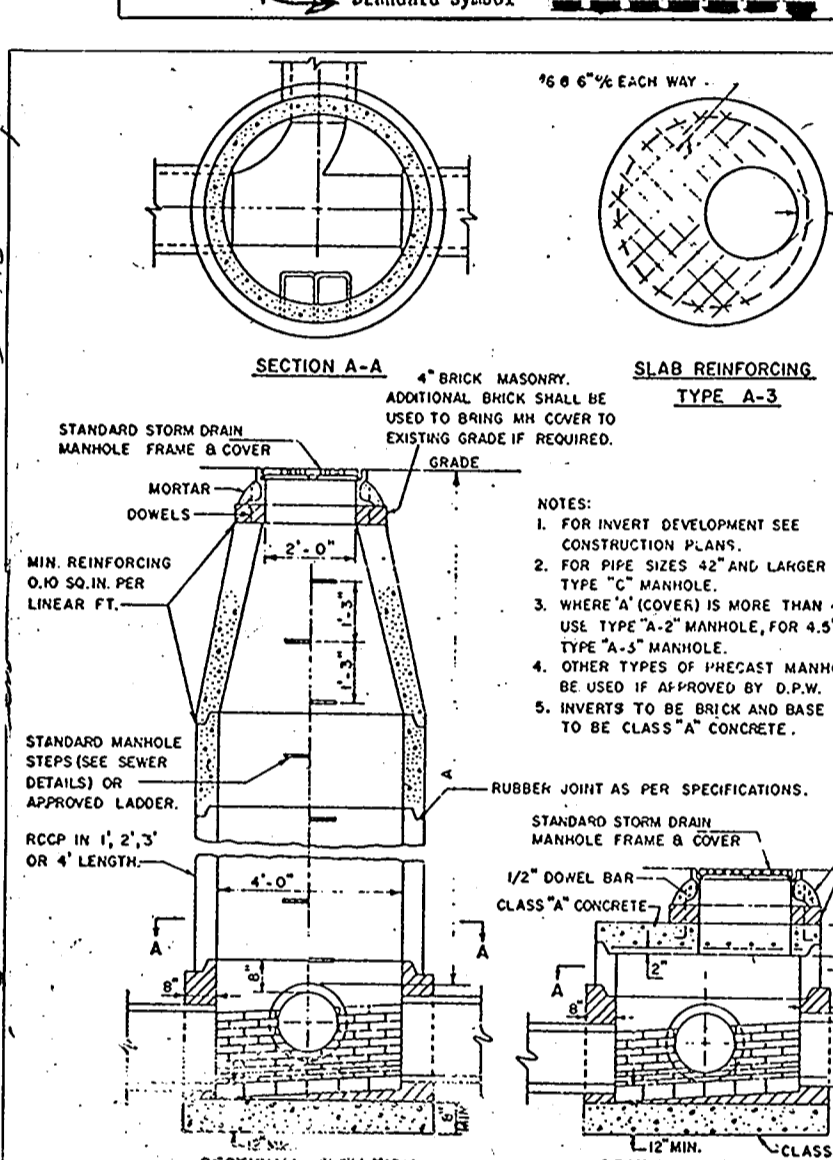
DRAWING NUMBER SD **2** OF 5

SDP-81-137

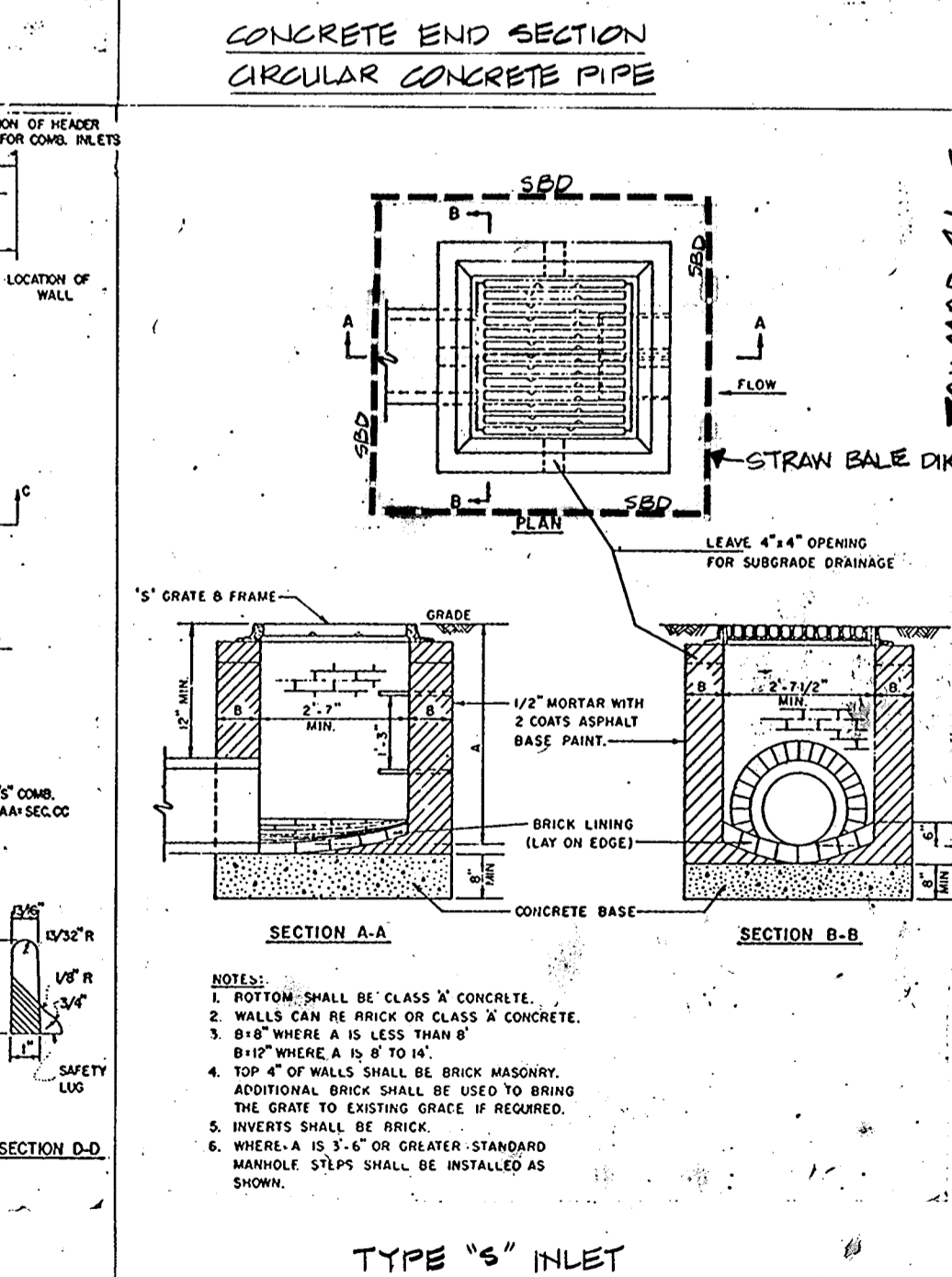
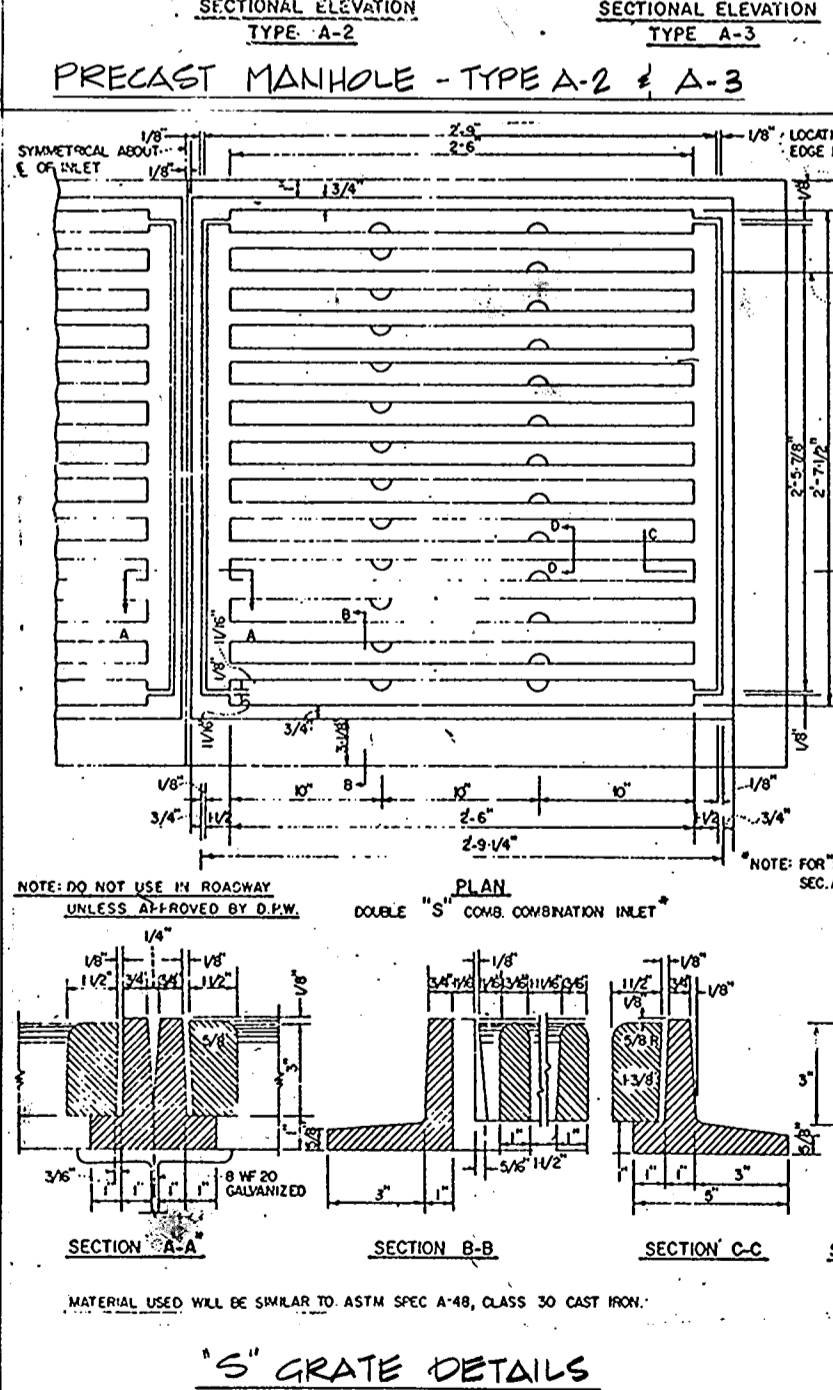


**SOIL EROSION CONTROL:**  
1. STRAIN BALE DIKE (SHOWN WITH DASHED LINE) TO PROVIDE TEMPORARY MEASURE FOR DURATION OF CONSTRUCTION. (SEE DETAIL & CONSTR. SPEC.)  
2. CYLON INLET (AND MANHOLE) SEDIMENT TRAPS AT ALL STRUCTURES AS PROTECTION DURING CONSTRUCTION. (SEE DETAIL & CONSTR. SPEC.)

**SILT FENCE DETAIL**  
NOTE: STORM INLETS AND MANHOLE OPENINGS SHALL BE SURROUNDED BY STRAIN BALE DIKES UNTIL THE COMPLETION OF PAVING AND/OR THE ESTABLISHMENT OF PERMANENT VEGETATION



DIAM	SLOPE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
18"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
24"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
30"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
36"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
42"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
48"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
54"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
60"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
66"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
72"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
78"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
84"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
90"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
96"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
102"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
108"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
114"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"
120"	3/4"	10'0"	12'0"	15'0"	20'0"	25'0"	30'0"	35'0"	40'0"	45'0"	50'0"	55'0"	60'0"	65'0"	70'0"	75'0"	80'0"	85'0"	90'0"	95'0"	100'0"	105'0"	110'0"	115'0"	120'0"	125'0"	130'0"



APPROVED: For Storm-Drainage Systems and Roads  
Date: 11-6-81  
Director: *Walter F. Nemery*  
Date: 11-5-81  
Chief, Bureau of Engineering: *William E. Reay*

APPROVED: For Private Water and Private Sewerage Systems  
Date: 11-8-81  
Date: 11-8-81

APPROVED: Howard County Office of Planning and Zoning  
Date: 11-7-81  
Date: 11-6-81

Reviewed for *Land* S.C.D.  
and meets technical requirements  
Date: 10-26-81  
Signature: *W. Staben*  
U. S. SOIL CONSERVATION SERVICE

This development plan is approved for Erosion and Sediment Control by the Howard Soil Conservation District.  
Approved: *W. Staben* Date: 10-26-81  
Howard S.C.D.

"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 are deemed necessary." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.  
Signature of Developer: *W. Staben* Date: 1-8-81

"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: *John Kosma* Date: 9-4-81

NOTE: THIS SDP IS A REVISION TO A PREVIOUSLY APPROVED SDP; FILE NO SDP 15-22 (BLD4 B) 9-0-80

**JAMES GOLDSTEIN & PARTNERS ARCHITECTS**  
225 MILLBURN AVE., MILLBURN, NEW JERSEY 07041  
APPROVED FOR THE UNIVERSITY BY: *R. B. Stout* P.E. DATE: 9-4-81

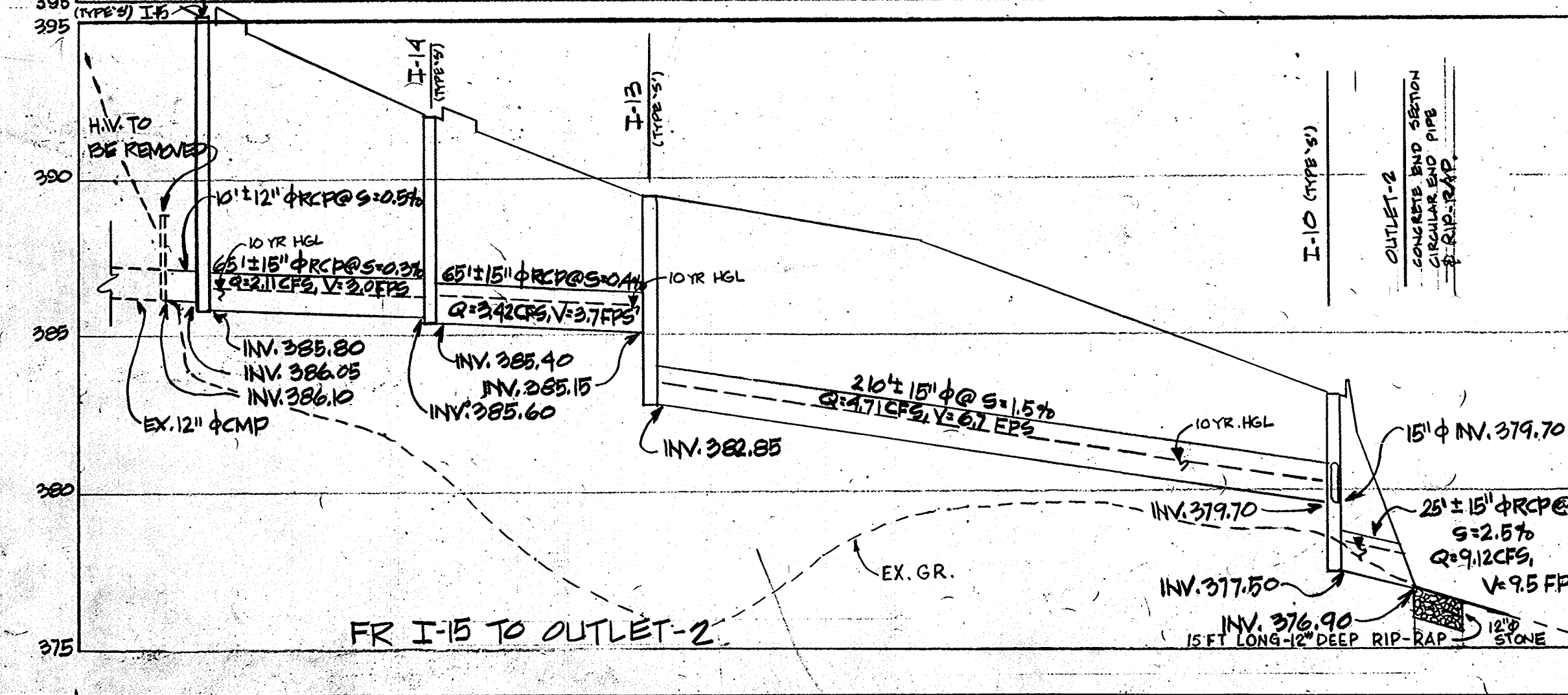
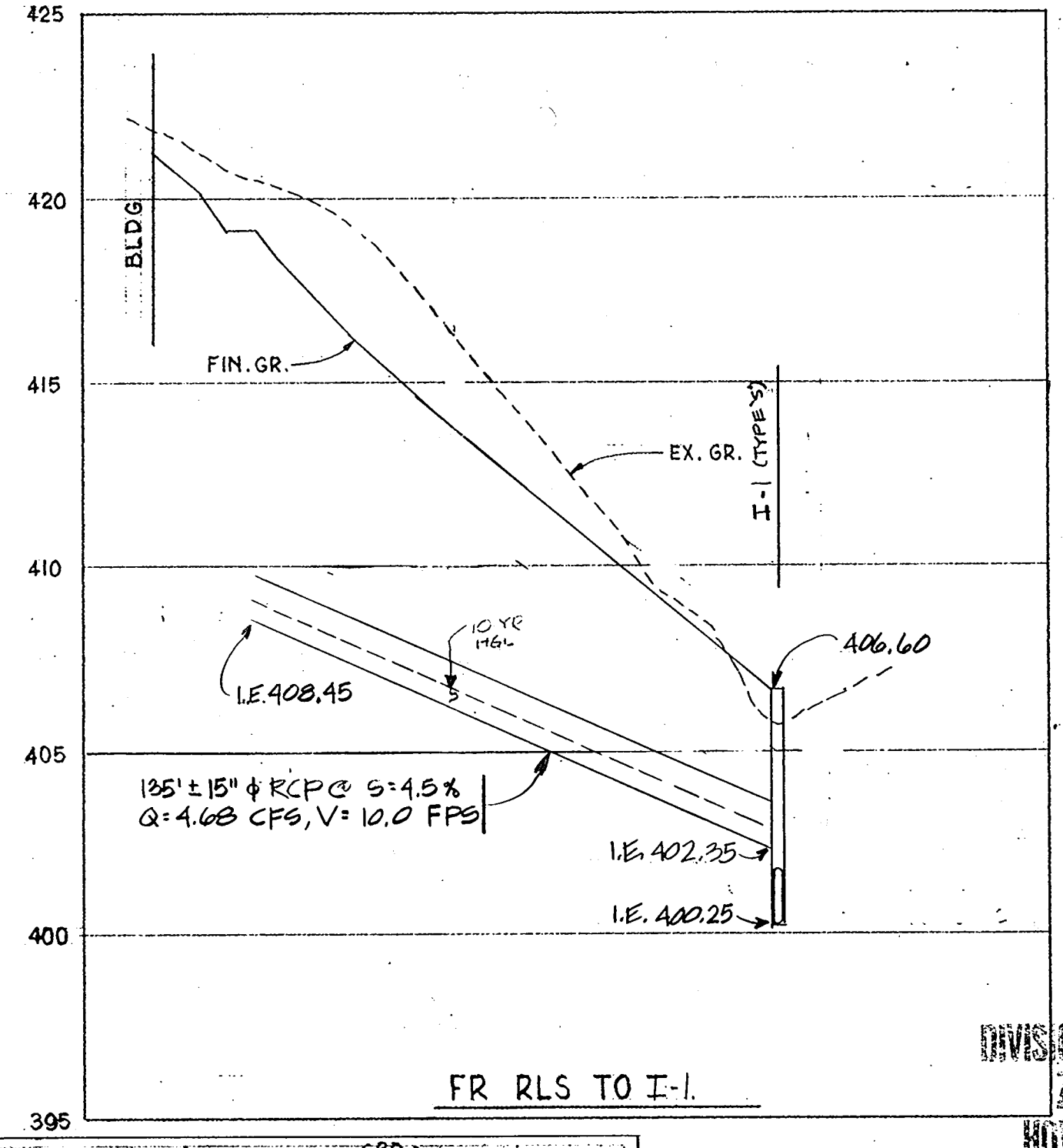
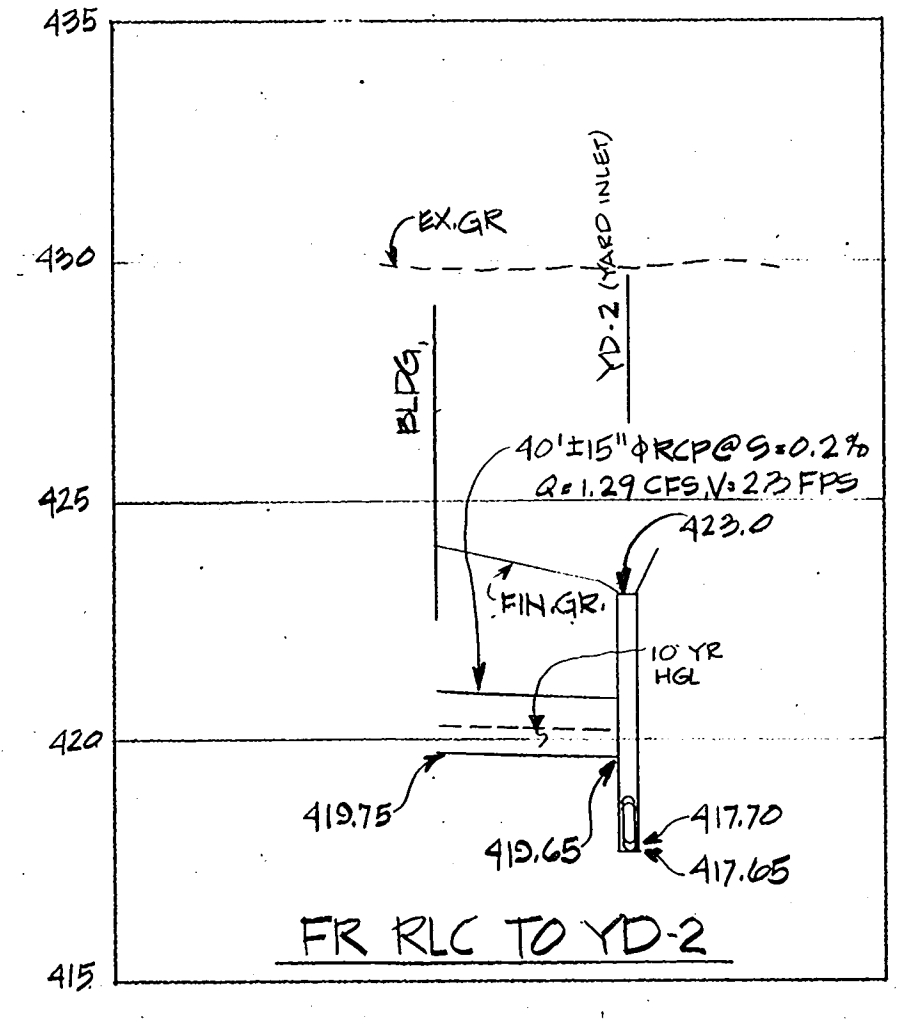
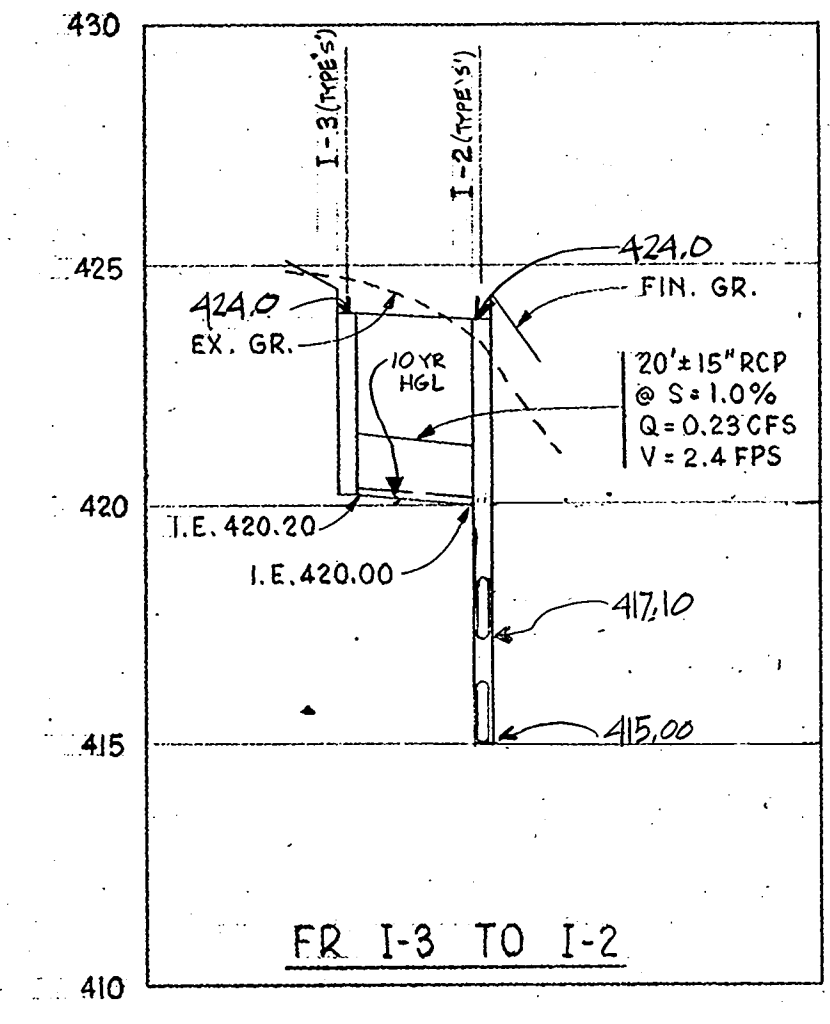
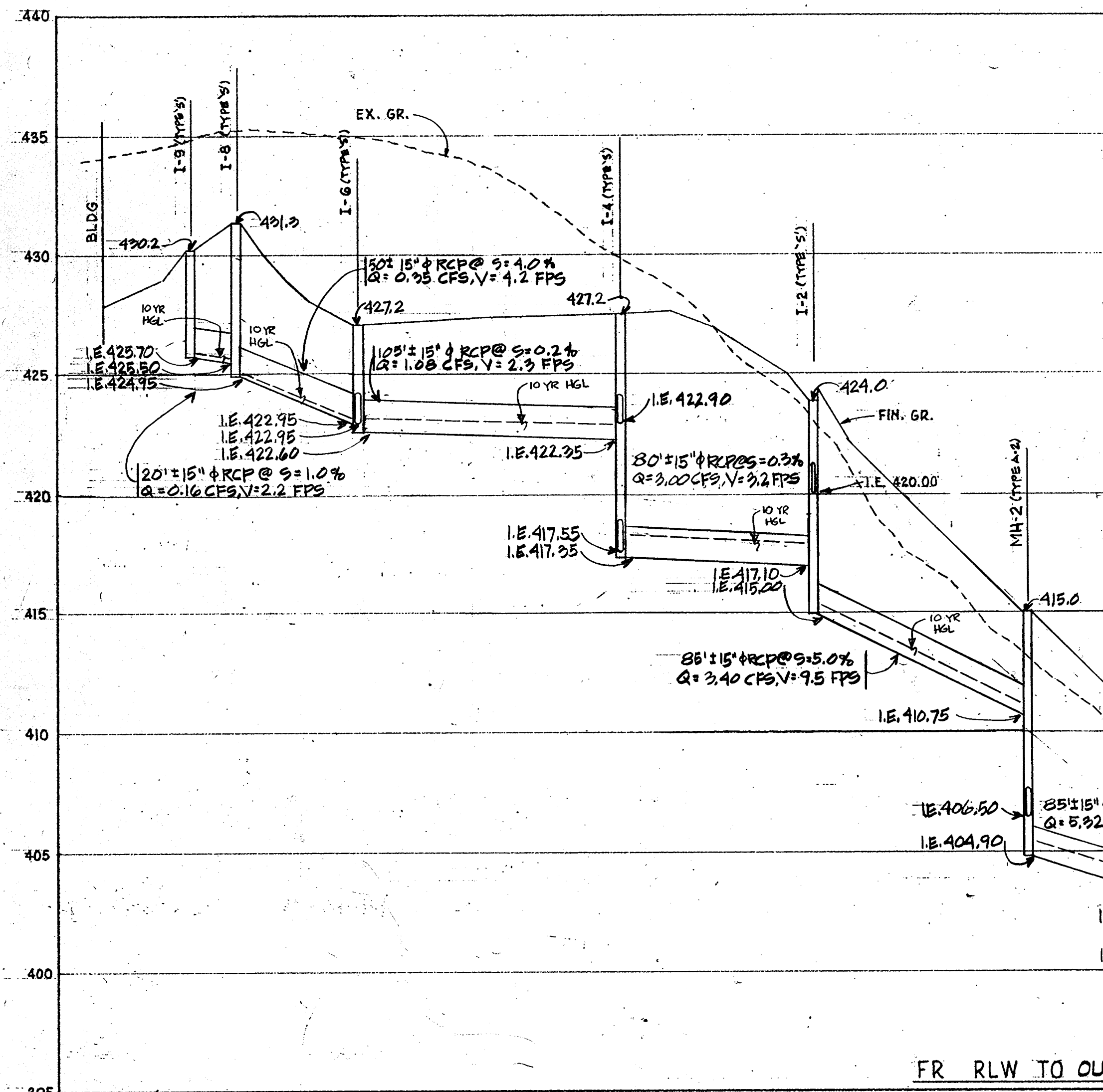
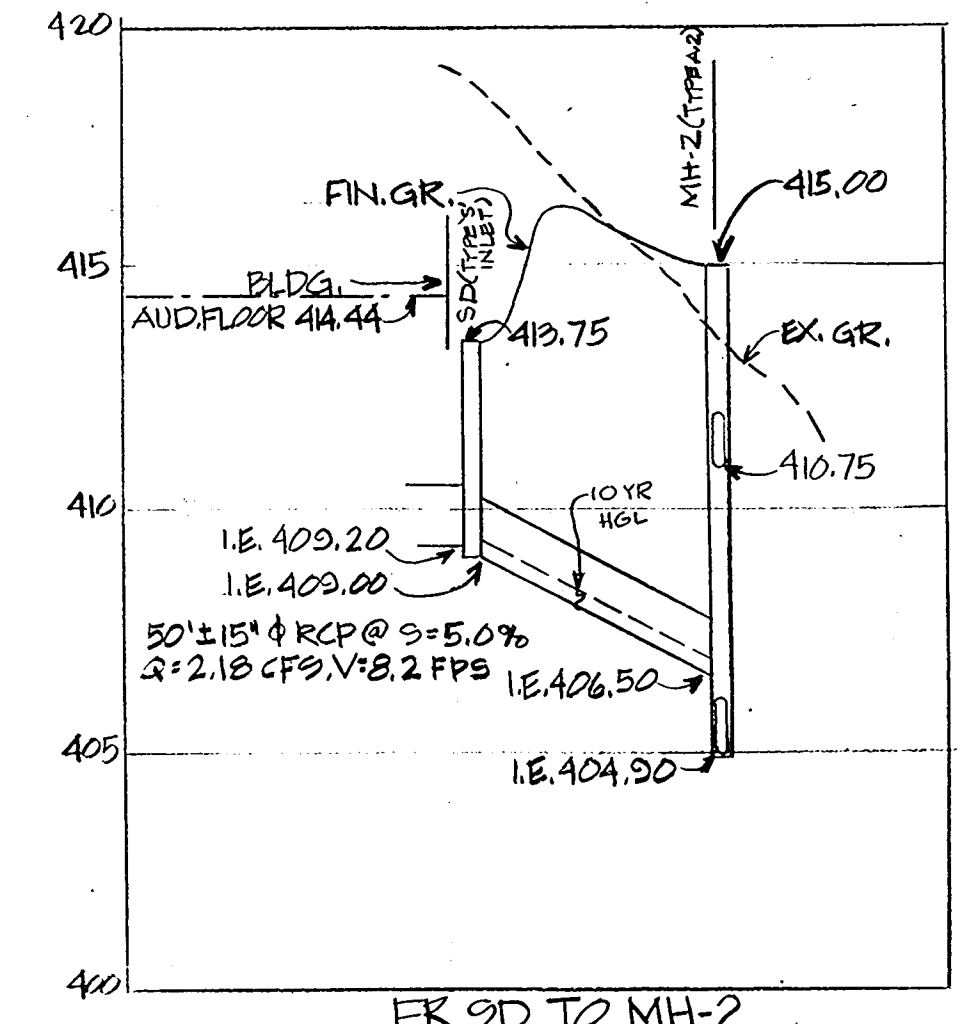
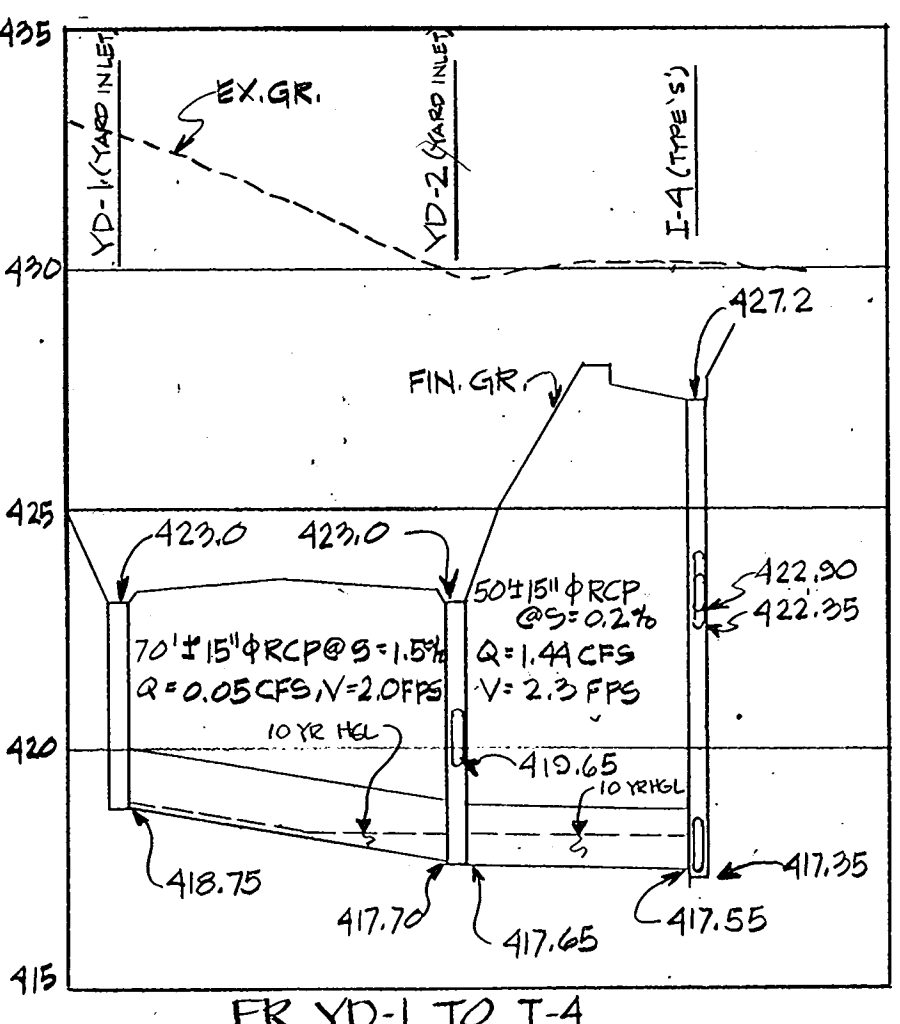
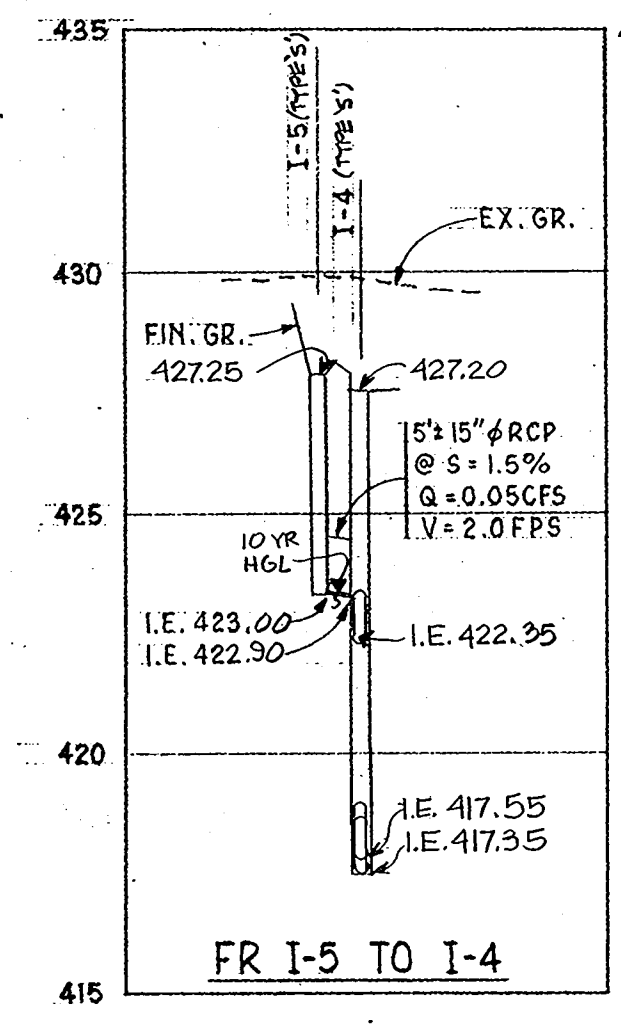
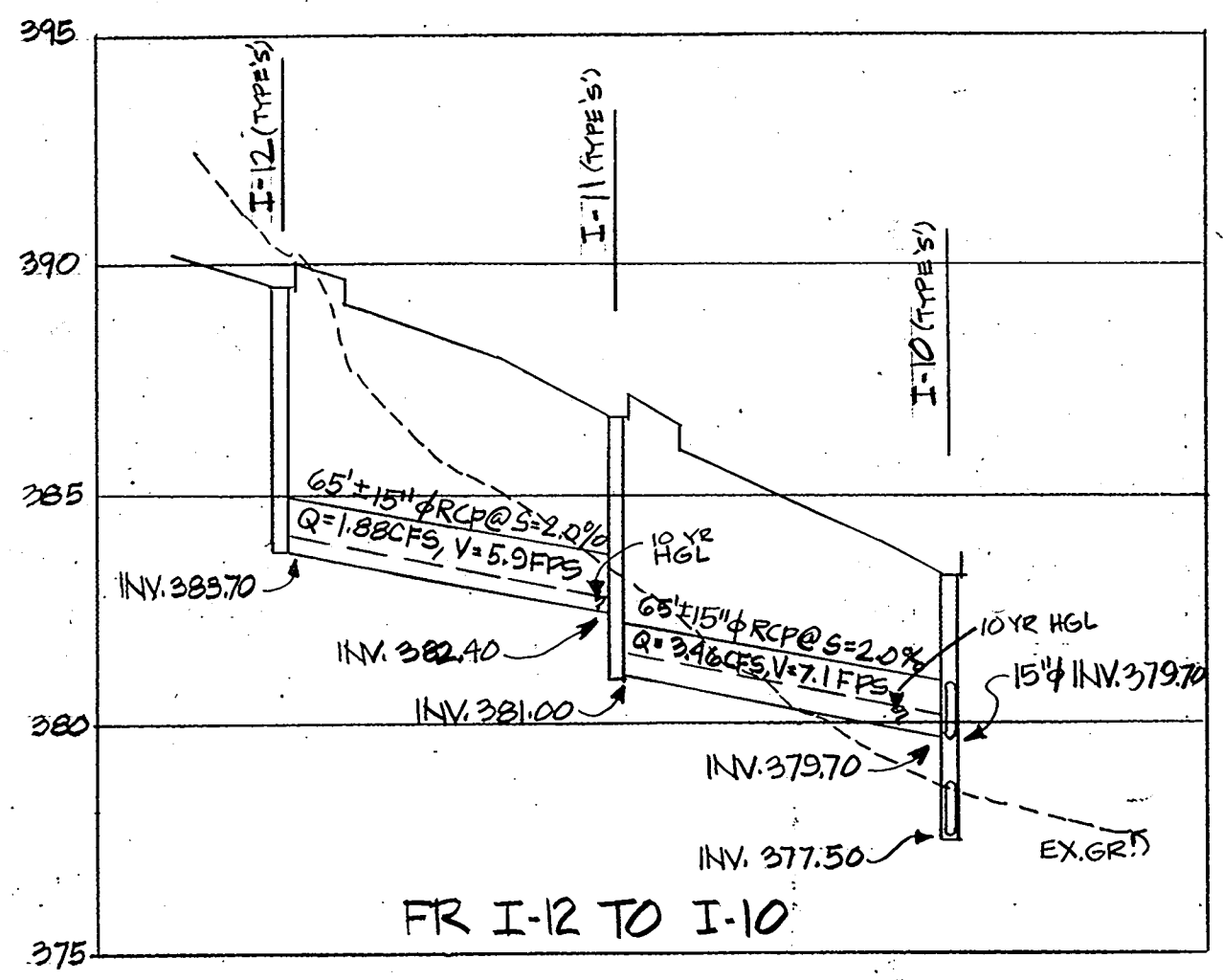
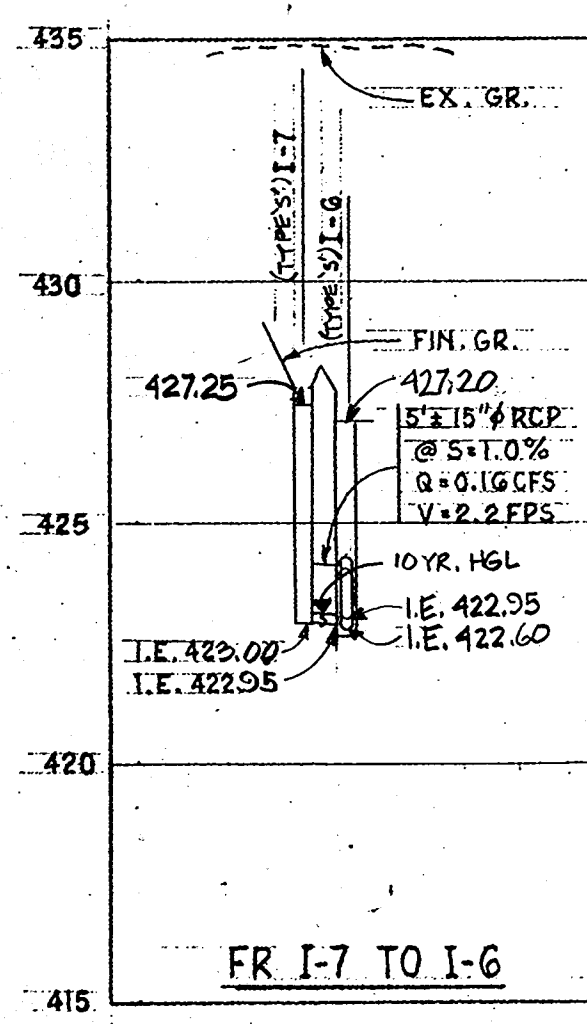
**ECONOMIDES & GOLDBERG** MECHANICAL & ELECTRICAL ENGINEERS  
**HERBERT A. WIENER, P.E.** STRUCTURAL ENGINEER  
**KOZMA ASSOCIATES** CIVIL ENGINEERS  
**BOLT, BERANEK & NEWMAN** ACUSTIC CONSULTANTS

**JAMES GOLDSTEIN & PARTNERS ARCHITECTS**  
225 MILLBURN AVE., MILLBURN, NEW JERSEY 07041

**THE JOHNS HOPKINS UNIVERSITY**  
JOHNS HOPKINS ROAD, HOWARD COUNTY, MARYLAND

**AUDITORIUM & CLASSROOM BUILDING APPLIED PHYSICS LABORATORY**  
SOIL CONSERVATION GRADING & DRAINAGE

DRAWING NUMBER: **3** OF 5  
DATE: 9-4-81  
SCALE: AS SHOWN  
DWG. JS  
CHK: MD, 9/3



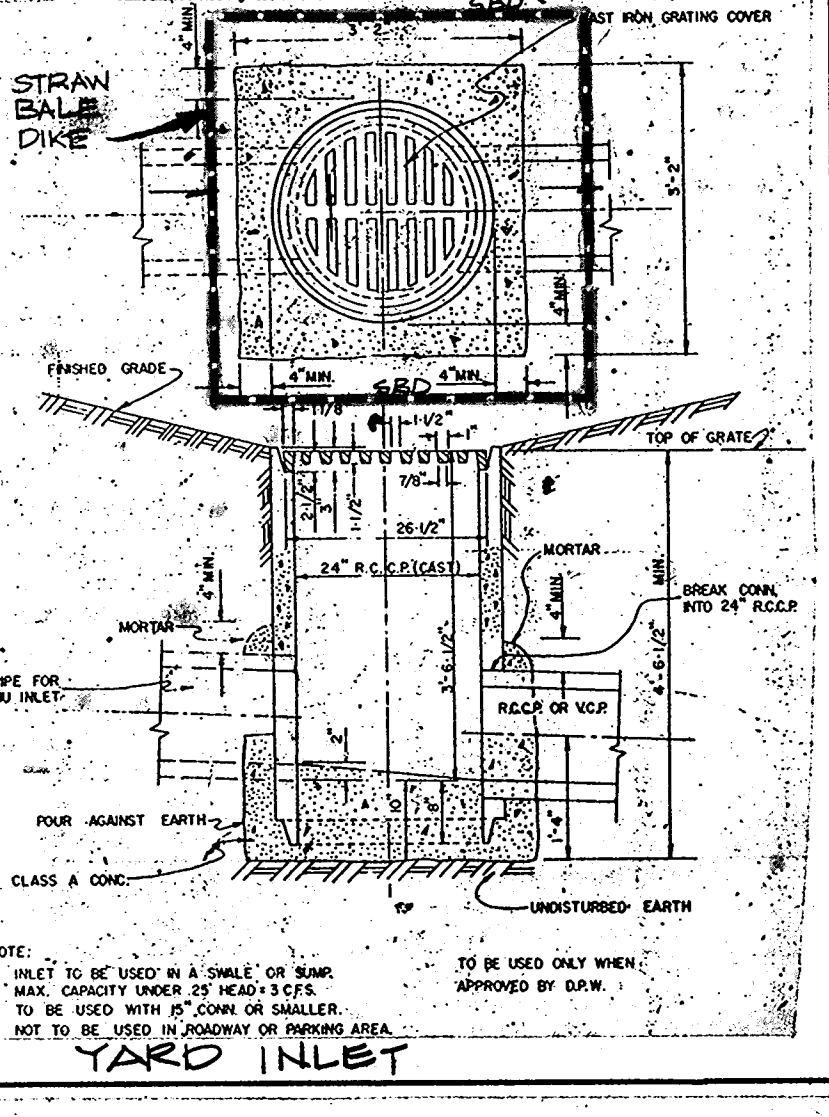
APPROVED: For Storm Drainage Systems and Roads  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Carol E. Newman*  
 Director  
 Date: 11-6-81

APPROVED: For Private Water and Private Sewerage Systems  
 HOWARD COUNTY DEPARTMENT OF HEALTH  
*John G. Miller*  
 County Health Officer  
 Date: 11-2-81

APPROVED: Howard County Office of Planning and Zoning  
 PLANNING OFFICER  
*John M. ...*  
 Date: 11-6-81

Reviewed for HOWARD S.C.D.  
 Name  
 and meets technical requirements  
*J. ...*  
 Signature Date: 11-21-81  
 U.S. SOIL CONSERVATION SERVICE

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
 Approved: *...* Date: 11-27-81  
 HOWARD S.C.D.



"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: *John Kozma* Date: 6-29-81

0 10 20 30 40 VERTICAL  
 0 10 20 30 40 HORIZONTAL  
 PROFILE SCALE

NO.	INVERT IN	INVERT OUT	TOP ELEV.	TYPE
I-9	N/A	425.70	430.2	S
I-8	425.50	424.95	421.3	S
I-6	422.55	422.60	427.2	S
I-4	422.35	417.35	427.2	S
I-1	417.10	415.00	423.0	S
MH-2	410.75	404.90	415.0	A-2
I-1	402.25	400.25	405.6	A-3
MH-1	398.60	396.85	402.6	A-3
OUTLET-1	N/A	N/A	N/A	circular end pipe
I-7	N/A	423.00	427.25	S
I-6	422.55	422.60	427.2	S
I-5	N/A	423.00	427.25	S
I-4	422.90	417.35	427.2	S
YD-1	N/A	418.75	423.0	yard inlet
YD-2	417.70	417.65	423.0	yard inlet
I-4	417.55	417.35	427.2	S
RLC	420.00	419.75	424.0	N/A
YD-2	419.65	417.65	423.0	yard inlet
I-3	N/A	420.00	424.0	S
I-2	420.00	415.00	424.0	S
SD	409.20	409.00	413.75	S
MH-2	406.50	404.90	415.00	A-2
RLS	413.00	408.45	417.0	N/A
I-1	402.25	400.25	405.6	S
I-15	386.05	385.60	395.2	S
I-14	385.60	385.40	392.0	S
I-13	385.15	382.05	389.5	S
I-10	379.70	377.50	383.2	S
OUTLET-2	376.90	N/A	N/A	circular end pipe
I-15	N/A	383.70	389.5	S
I-11	382.40	381.00	385.7	S
I-10	379.70	377.50	383.2	S

NOTE: THIS SDP IS A REVISION TO A PREVIOUSLY APPROVED SDP: FILE NO. SDP 75-22 (PART B) AND 11-80-46

ECONOMIDES & GOLDBERG  
 MECHANICAL & ELECTRICAL ENGINEERS  
 NEW YORK CITY, NEW YORK

HERBERT A. WIENER, P.E.  
 STRUCTURAL ENGINEER  
 NEWARK, NEW JERSEY

KOZMA ASSOCIATES  
 CIVIL ENGINEERS  
 NYACK, NEW YORK

BOLT, BERANEK & NEWMAN  
 ACUSTIC CONSULTANTS

JAMES GOLDSTEIN & PARTNERS ARCHITECTS  
 225 MILLBURN AVE. MILLBURN, NEW JERSEY 07041

APPLIED PHYSICS LABORATORY  
 THE JOHNS HOPKINS UNIVERSITY  
 JOHN HOPKINS ROAD, HOWARD COUNTY, MARYLAND

AUDITORIUM & CLASSROOM BUILDING PROFILES

THIS DRAWING IS INCOMPLETE UNLESS USED WITH ALL OTHER CONTRACT DOCUMENTS.

DRAWING NUMBER  
 SD  
**4**  
 OF 5

**CONSTRUCTION SPECIFICATIONS FOR DAMS**  
(Including any but not limited to the following)

1. The dam shall be constructed on a firm foundation. The foundation shall be investigated and tested to determine its bearing capacity and its ability to resist sliding, overturning, and other forces. The foundation shall be prepared and strengthened as necessary to provide a safe and stable foundation for the dam.
2. The dam shall be constructed in accordance with the approved plans and specifications. The contractor shall be responsible for the construction of the dam and for the safety of the dam during and after construction.
3. The dam shall be constructed of concrete or masonry. The concrete shall be of a minimum strength of 3000 psi. The masonry shall be of a minimum strength of 1500 psi.
4. The dam shall be constructed with a minimum thickness of 24 inches. The dam shall be constructed with a minimum height of 10 feet.
5. The dam shall be constructed with a minimum crest width of 10 feet. The dam shall be constructed with a minimum slope of 1.5 horizontal to 1 vertical.
6. The dam shall be constructed with a minimum freeboard of 2 feet. The dam shall be constructed with a minimum crest finish of 10 feet.
7. The dam shall be constructed with a minimum foundation depth of 4 feet. The dam shall be constructed with a minimum foundation width of 10 feet.
8. The dam shall be constructed with a minimum foundation length of 10 feet. The dam shall be constructed with a minimum foundation width of 10 feet.
9. The dam shall be constructed with a minimum foundation width of 10 feet. The dam shall be constructed with a minimum foundation length of 10 feet.
10. The dam shall be constructed with a minimum foundation width of 10 feet. The dam shall be constructed with a minimum foundation length of 10 feet.

"I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

*C. J. Amitt* 9-4-81  
Signature of Developer Date

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have not lifted the design plan that I must provide to the Howard Soil Conservation District for approval." John Kozma

*John Kozma* 9-4-1981  
Signature of Engineer Date  
JOHN KOZMA, PE # 12187

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

*Ray J. Beck* 10-26-81  
U.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*William F. Rouse* 10-27-81  
Howard Soil Conservation District Date

APPROVED: For Storm Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Henry F. Newman* 11-6-81  
Director Date

*William F. Rouse* 11-5-81  
CHIEF, BUREAU OF ENGINEERING Date

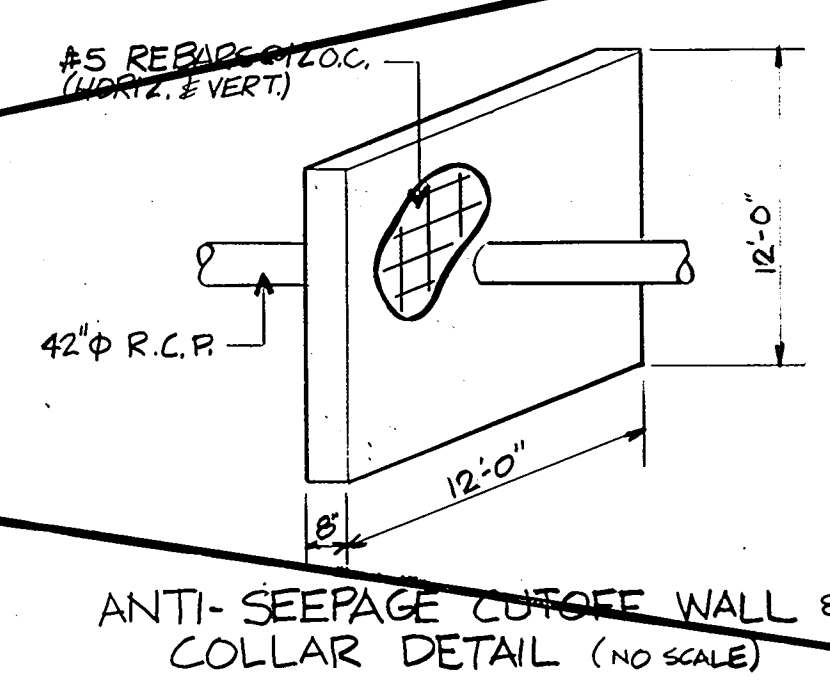
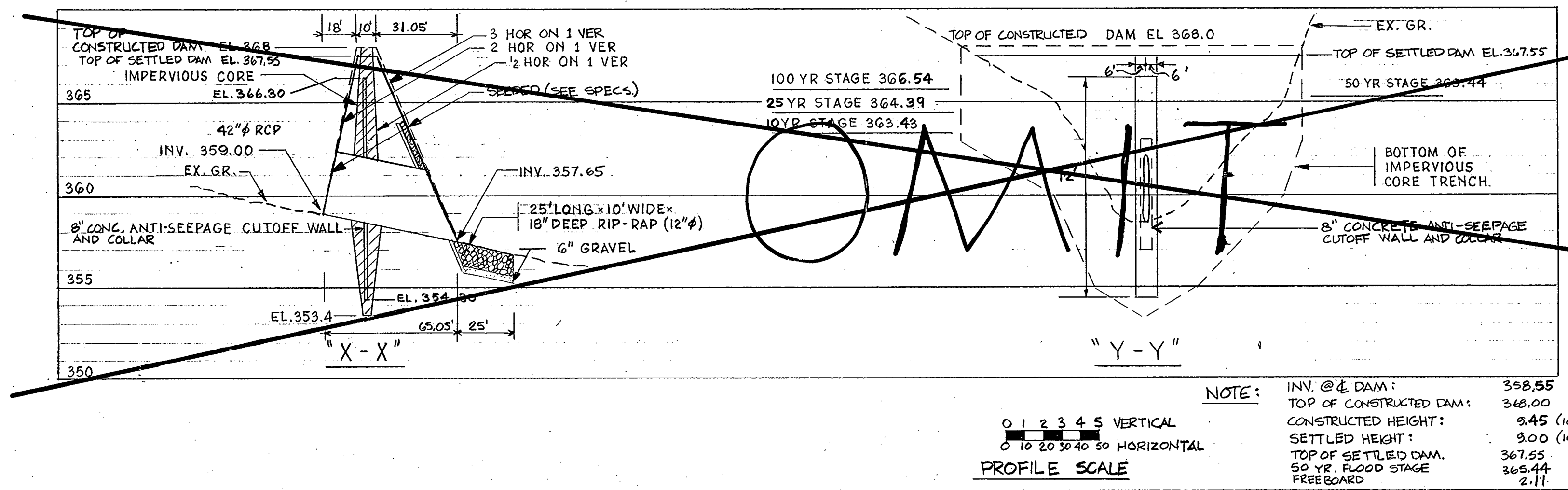
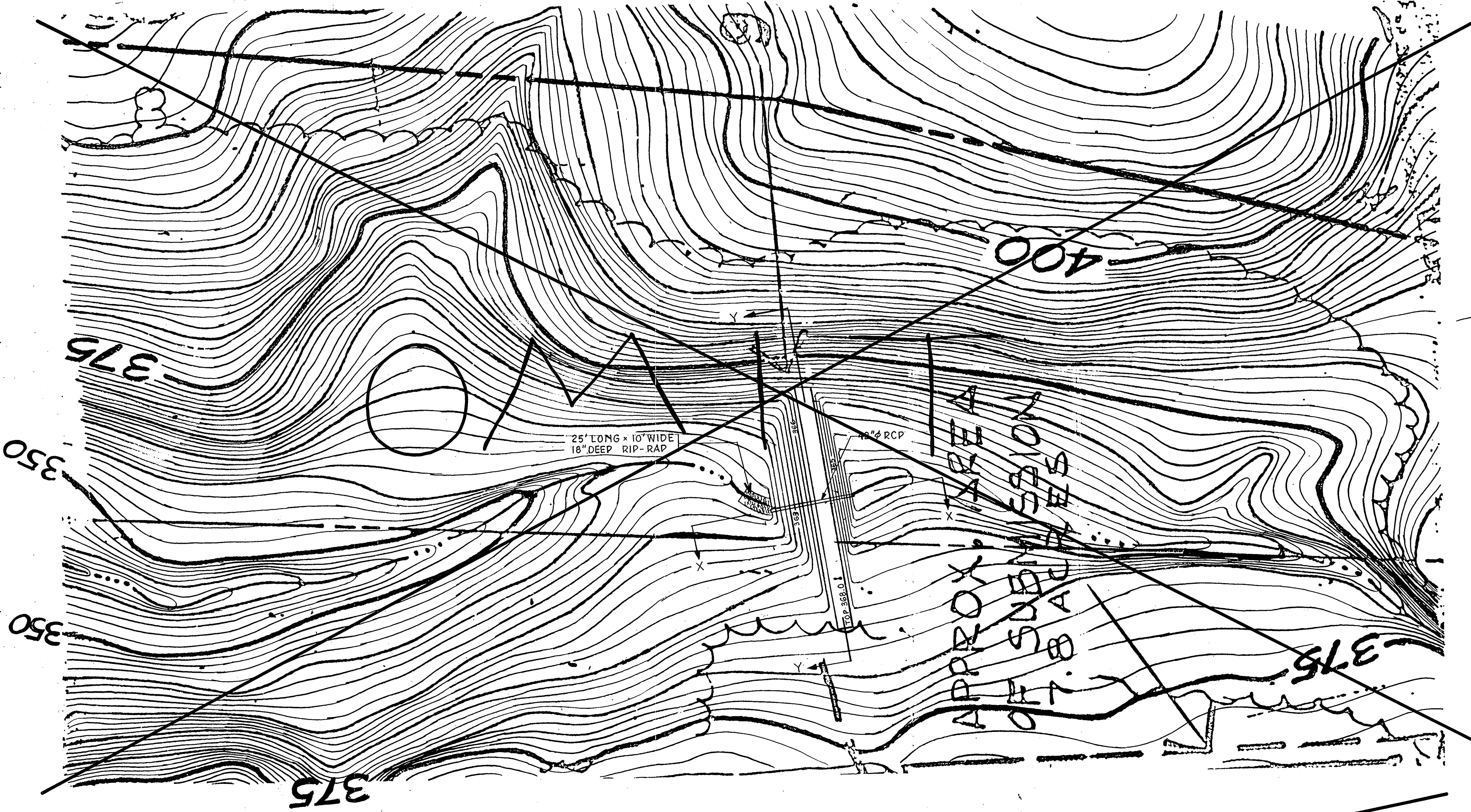
APPROVED: For Private Water and Private Sewerage Systems

HOWARD COUNTY DEPARTMENT OF HEALTH  
*Joseph Boyle* 11-2-81  
HEALTH OFFICER Date

APPROVED: Howard County Office of Planning and Zoning

*Thomas L. Harvill* 11-9-81  
PLANNING OFFICER Date

*William F. Rouse* 11-6-81  
CHIEF, DIVISION OF LAND DEVELOPMENT Date

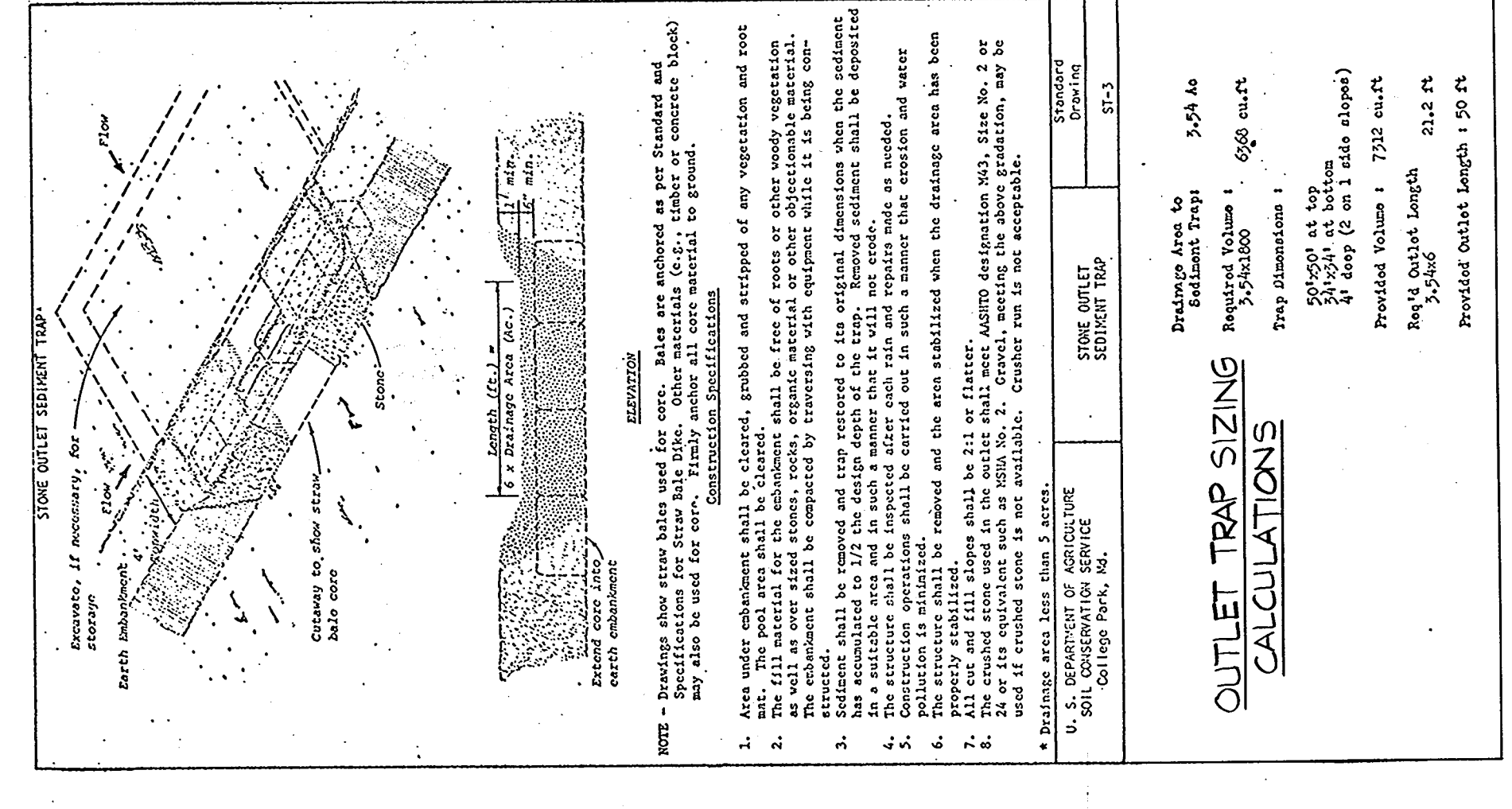
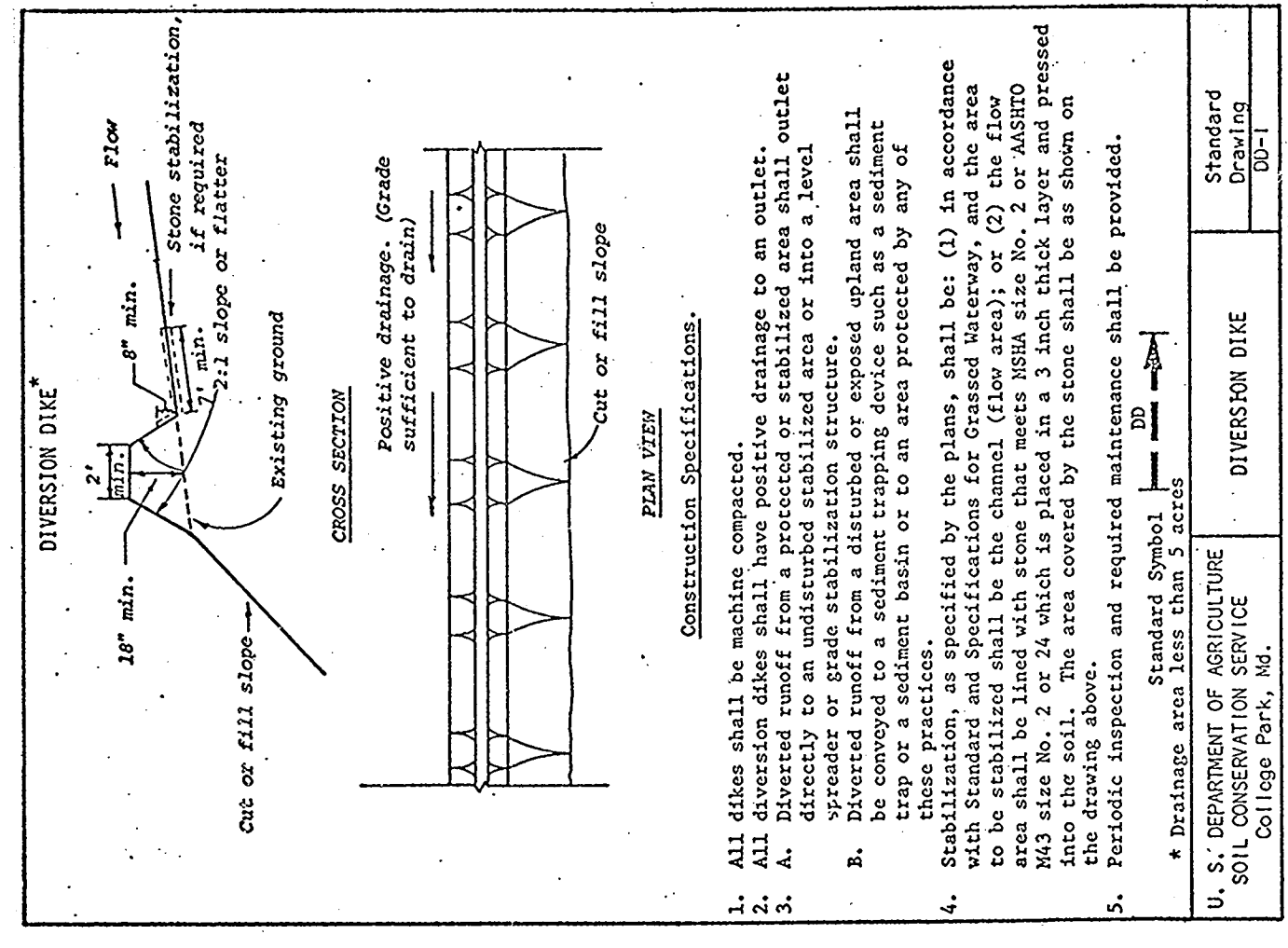


NOTE:

INV. @ DAM:	358.55
TOP OF CONSTRUCTED DAM:	368.00
CONSTRUCTED HEIGHT:	9.45 (105%)
SETTLED HEIGHT:	9.00 (100%)
TOP OF SETTLED DAM:	367.55
50 YR FLOOD STAGE:	365.44
FREEBOARD:	2.11

PROFILE SCALE  
0 1 2 3 4 5 VERTICAL  
0 10 20 30 40 50 HORIZONTAL

NOTE: THIS SDP IS A REVISION TO A PREVIOUSLY APPROVED SDP: FILE NO SDP 75-22 (OLD 8) & 8



HERBERT A. WIENER, P.E.  
STRUCTURAL ENGINEER  
NEWARK, NEW JERSEY

ECONOMIDES & GOLDBERG  
MECHANICAL & ELECTRICAL ENGINEERS  
NEW YORK CITY, NEW YORK

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CIVIL ENGINEERS  
MILLBURN, NEW JERSEY

JAMES GOLDSTEIN & PARTNERS  
ARCHITECTS  
225 MILLBURN AVE., MILLBURN, NEW JERSEY 07041

TAX MAP 41 ELECTION DISTRICT NO. 5 PARCEL No 133

AUDITORIUM & CLASSROOM BUILDING  
PLAN & SECTIONS OF DAM SITE  
& SEDIMENT CONTROL DETAILS

APPROVED FOR THE UNIVERSITY BY: *C. J. Amitt*  
DATE: 9-4-81

THE JOHNS HOPKINS UNIVERSITY  
APPLIED PHYSICS LABORATORY  
JOHNS HOPKINS ROAD, HOWARD COUNTY, MARYLAND

APPROVED  
DIVISION OF LAND DEVELOPMENT  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 10-14-81

THIS DRAWING IS INCOMPLETE UNLESS USED WITH ALL OTHER CONTRACT DOCUMENTS.

DRAWING NUMBER  
SD  
**5**  
OF 5

SDP-81-137