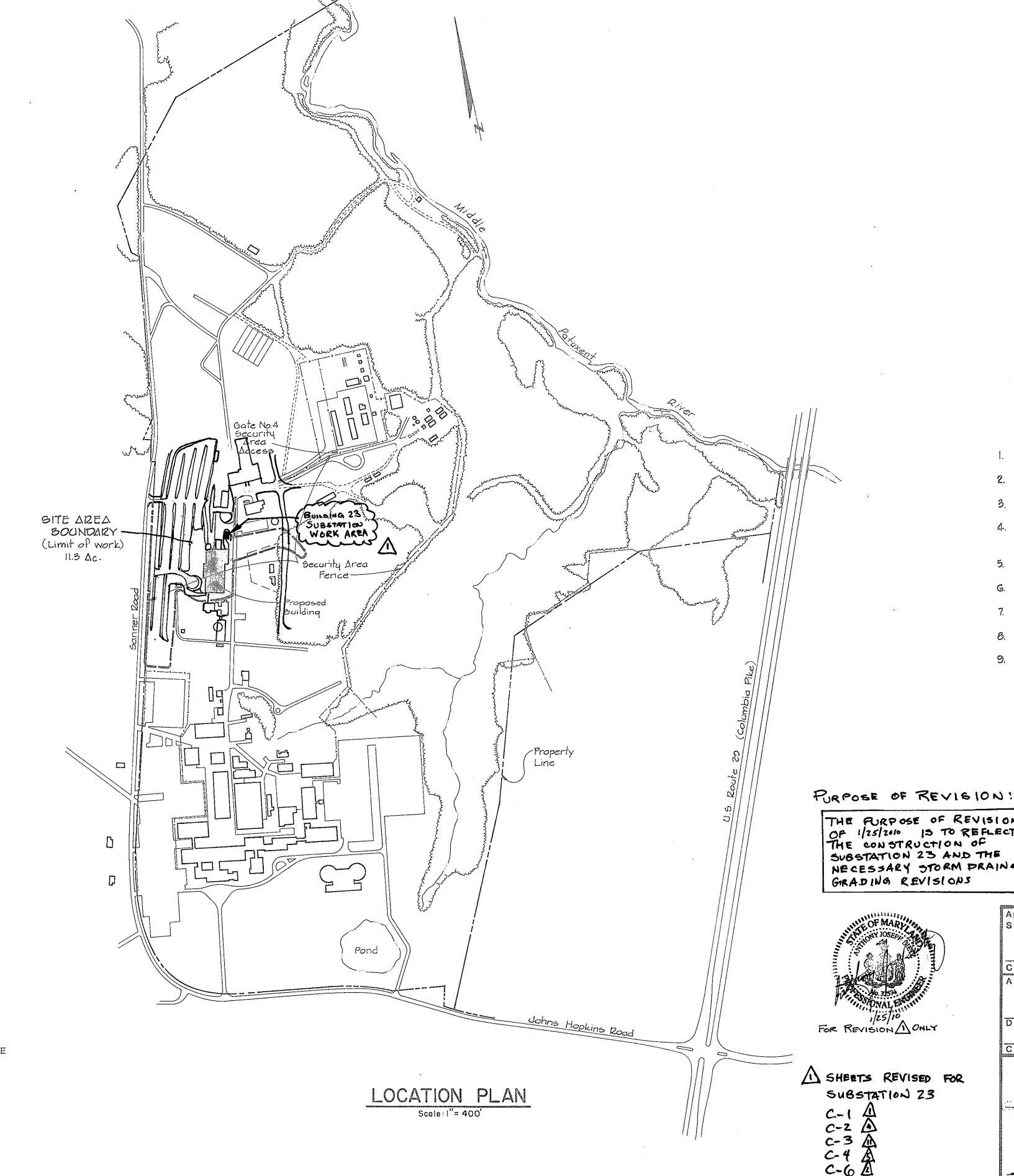
### GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- 2. THE WATER AND SEWERAGE SYSTEMS ARE PRIVATE. THE INDIVIDUAL WATER AND/OR SEWERAGE SYSTEMS ARE INTERIM AND SHALL BE DISCONTINUED AS PUBLIC FACILITIES BECOME AVAILABLE AND CONNECTION THERE TO IS REQUIRED BY THE AGENCY HAVING JURISDICTION.
- 3. ELEVATIONS SHOWN ARE BASED ON THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY DATUM. JHU-APL DATUM - 0.94' = HOWARD COUNTY DATUM.
- 4. THE CONTRACTOR SHALL CALL MISS UTILITY (301) 559-0100, FIVE DAYS PRIOR TO THE START OF CONSTRUCTION.
- 5. POLY FILTER X FILTER CLOTH BLANKET OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP RAP.
- 6. 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 CONTRACTORS EXPENSE.
- 7. 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.
- 8. SECURITY MUST 3E MAINTAINED WITHIN THE EXISTING FENCED AREA. ALL REQUIRED FENCE CONSTRUCTION AND RELOCATION SHALL BE BY THE JOHNS HOPKINS UNIVERSITY APPLIED PLYSICS LABORATORY. HOW EVER THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH JHU APL AS TO WHEN SUCH WORK IS REQUIRED.
- 9. LANDSCAPING SHALL BE BY JHU-APL.
- 10. THE EXISTING LIGHT POLES, ELECTRICAL CONDUITS, AND GATE HOUSES BETWEEN ROAD "A" AND THE PROPOSED BUILDING SHALL BE REMOVED OR RELOCATED BY JHU-APL. ALL OTHER EXISTING UTILITIES CONFLICTING WITH THE CONSTRUCTION SHALL BE RELOCATED BY JHU-APL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION.
- 11. WHEN THE EXISTING PARKING ADJACENT TO BUILDING NO.36 IS REMOVED AND PRIOR TO THE COMPLETION OF THE PROPOSED PARKING FACILITY, A SHUTTLE BUS SERVICE FROM THE JHU-APL MAIN PARKING LOT WILL BE PROVIDED BY THE OWNER FOR THE EMPLOYEES.
- 12. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR DAMAGES TO EXISTING PAVEMENT WITHIN THE JHU-APL COMPLEX. THE CONTRACTOR WILL REPLACE ONLY A TEMPORARY PAVING SECTION OF ROAD "A" AFTER THE WATER AND SEWER EXTENSIONS ARE CONSTRUCTED. ALL OTHER PAVING TO BE CONSTRUCTED BY OWNER.
- 13. 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.
- 14. 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.
- 15. ALL PIPE ELEVATIONS SHOWN ARE INVERT 💢
- 16. ALL WATER MAINS SHALL BE DUCTILE IRON PIPE CLASS 52.
- 17. ALL SANITARY SEWER MAINS SHALL BE C.S.P.X., V.C.P.X., A.C.P., OR P.V.C. UNLESS OTHERWISE NOTED.
- 18. THE CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE CUT DURING THE SANITARY SEWER CONSTRUCTION. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE DISPOSAL OF THESE CUT TREES.
- 19. ALL 4 INCH TELEPHONE CONDUITS SHALL BE PLASTIC COATED STEEL AND INSTALLED WITH A MINIMUM OF 3' OF COVER.
- 20. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 992-2417 OR 2418.
- 21. TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 32 FEET OF COVER UNLESS OTHERWISE NOTED.
- 22. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS.

SITE DATA		LEGEND	
1. ZONING	RURAL		EXISTING FIRE HYDRANT
2. SITE AREA	11.3 Ac.	-	PROPOSED FIRE HYDRANT
3. BUILDING FLOOR AREA (GROSS AREA OF THREE FLOORS)	105,000 SF.		LIGHT POLE
4. ACREAGE OF ENTIRE PROPERTY	366 Ac.	<del>-</del> ← T	GAS VALVE TELEPHONE POLE
5. EXISTING BUILDING COVERAGE	11.8 Ac. = 3.22%	E	ELECTRIC MANHOLE
6. PROPOSED BUILDING COVERAGE	1.2 Ac. = 0.33%	<b>(</b>	BORING
7. MAXIMUM NUMBER OF EMPLOYEES IN THE PROPOSED BUILDING	125	—— OH——	WATER TOWER 3
8. TOTAL NUMBER OF EXISTING EMPLOYEES/ PERSONNEL ON THE ENTIRE SITE	3100	——————————————————————————————————————	EXISTING GASLINE EXISTING CONDUIT
9. TOTAL NUMBER OF EXISTING AND PROPOSED EMPLOYEES/PERSONNEL OR THE ENTIRE SITE	3225	——xx——xx——	TEMPORARY FENCE PERMANENT SECURITY FENCE
10. TOTAL NUMBER OF PARKING SPACES REQUIRED	2258	XX	FENCE
11. TOTAL NUMBER OF PARKING SPACES PROVIDED  * EXISTING SPACES 2335	2426 *		

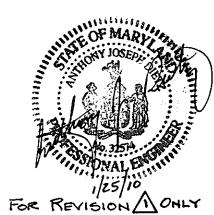


Hopkins Applied/ Phisics Lab

# SHEET INDEX

- 1. Title Sheet
- 2. Grading Plan
- 3. Roadway & Utility Plan
- 4. Drainage Area Map and Storm Drain
- Details!
- 5. Water and Sewer Profiles & Details
- 6. Sediment Control Plan
- 7. Sediment Control Notes & Details
- 8. Landscape Plan
- 9. Boring Logs

THE PURPOSE OF REVISION
OF 1/25/2010 13 TO REFLECT
THE CONSTRUCTION OF
SUBSTATION 23 AND THE
NECESSARY STORM PRAINA GRADING REVISIONS



SHEET'S REVISED FOR SUBSTATION 23 c-2 A C-3

Approved: For Private Water And Private Sewerage Systems, Howard County Health Department. Storm Drainage Systems And Roads Howard County Department Of Public Works Chief, Bureau Of Engineer Approved: Howard County Office Of Planning And Zoning

Whief, Division Of Land Development And Zoning Administration

7-29-82

DRAWING

C-1

7-29-82 Daie:

1-19-82

7-2882

WHITMAN, REQUARDT AND ASSOCIATES

SPACES REMOVED

SPACES PROPOSED

- 50

+ 141

2426

2315 SAINT PAUL STREET

BALTIMORE, MARYLAND 21218

APPLIED PHYSICS LABORATORY

THE JOHNS HOPKINS UNIVERSITY Johns Hopkins Road Howard County, Maryland Approved For The University

Date 4-12-22 Title

SPACE SYSTEMS INTEGRATION AND TEST BUILDING

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY Laurel, Maryland 20707 11100 Johns Hopkins Road

TITLE SHEET

Note : Building Addition to SDP 81-137.

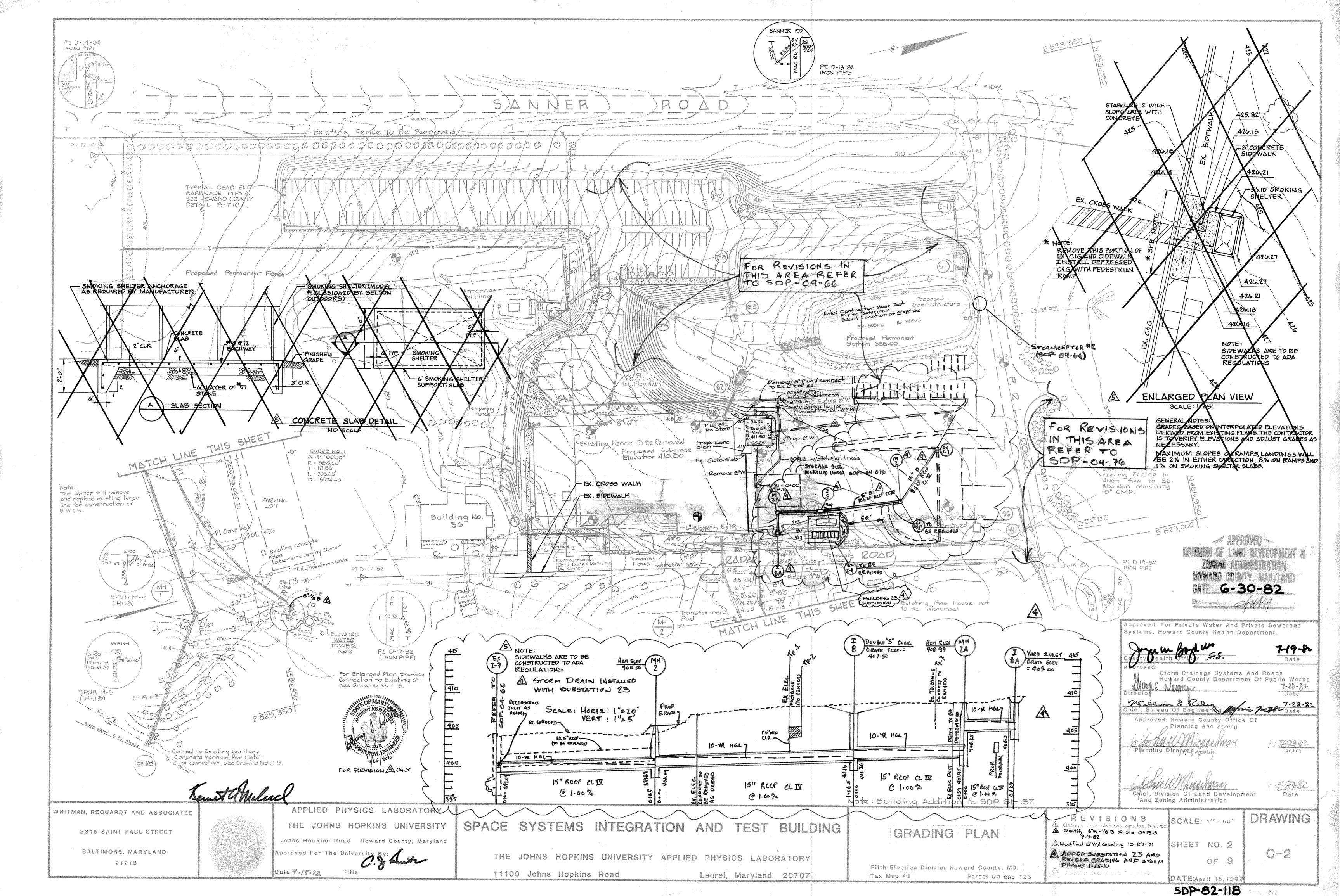
Fifth Election District Howard County, MD. Parcel 50 and 123 Tax Map 41

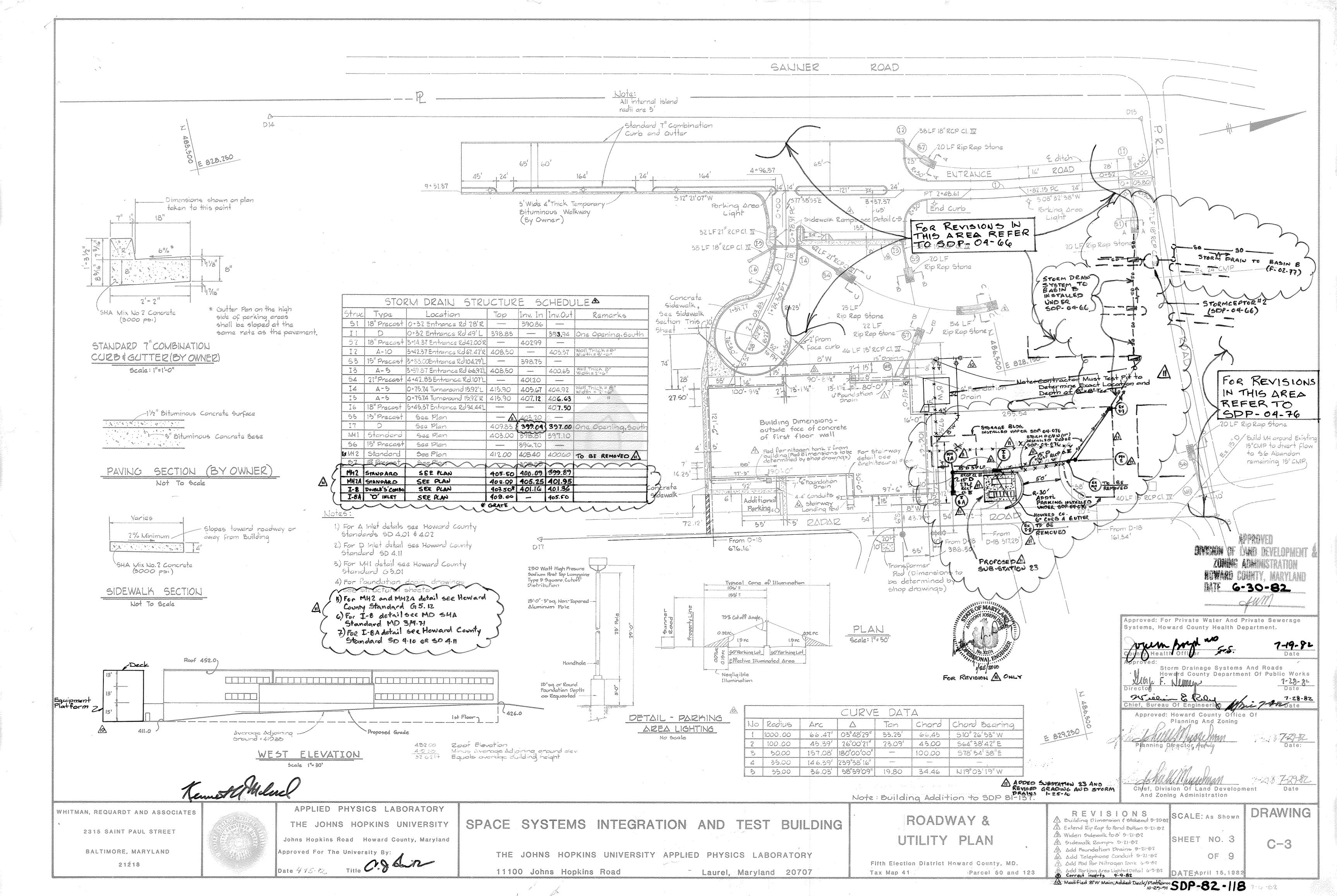
REVISIONS ADDED SUBSTATION 23 STORM DRAINS 1/25/10

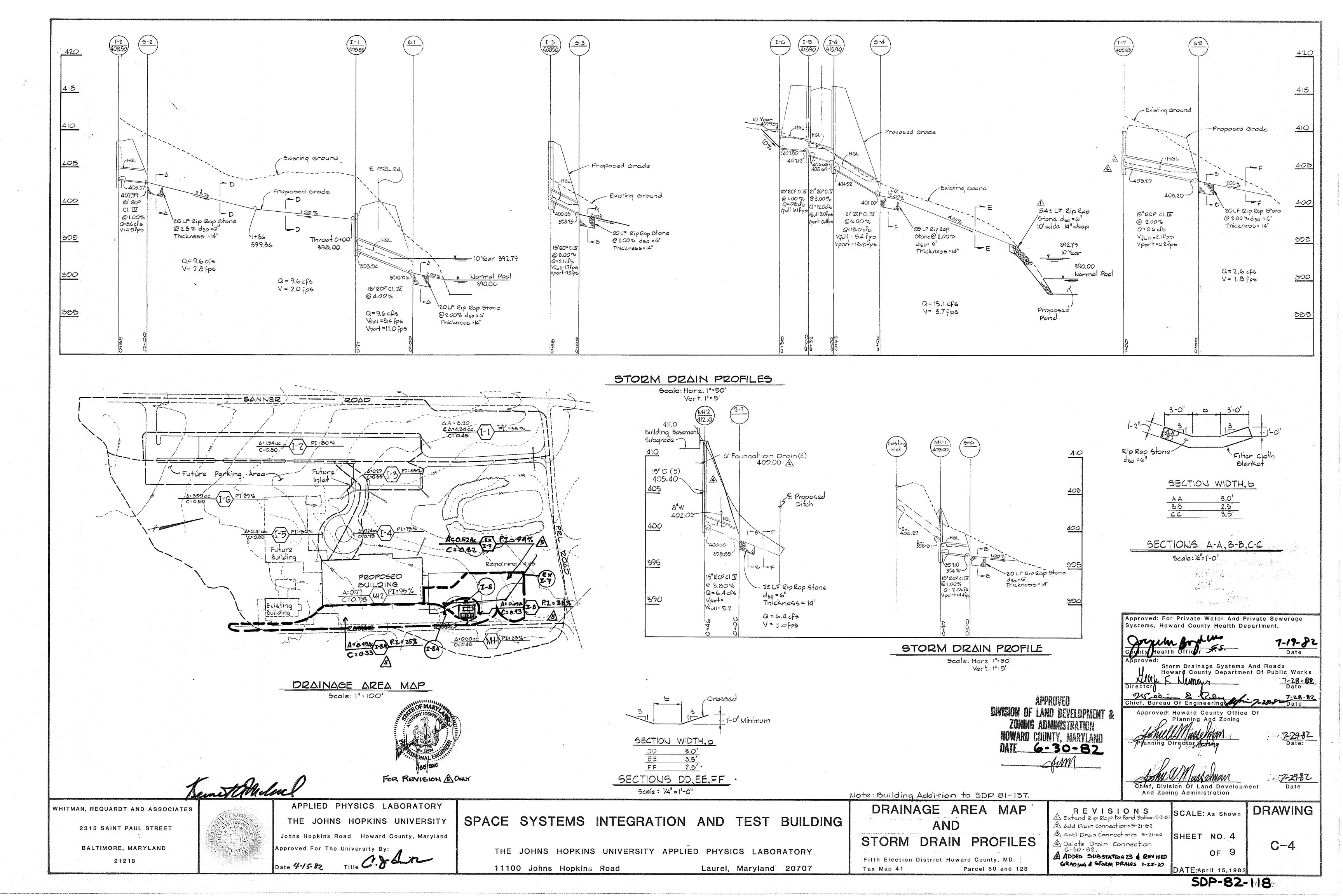
SCALE: As Shown SHEET NO.

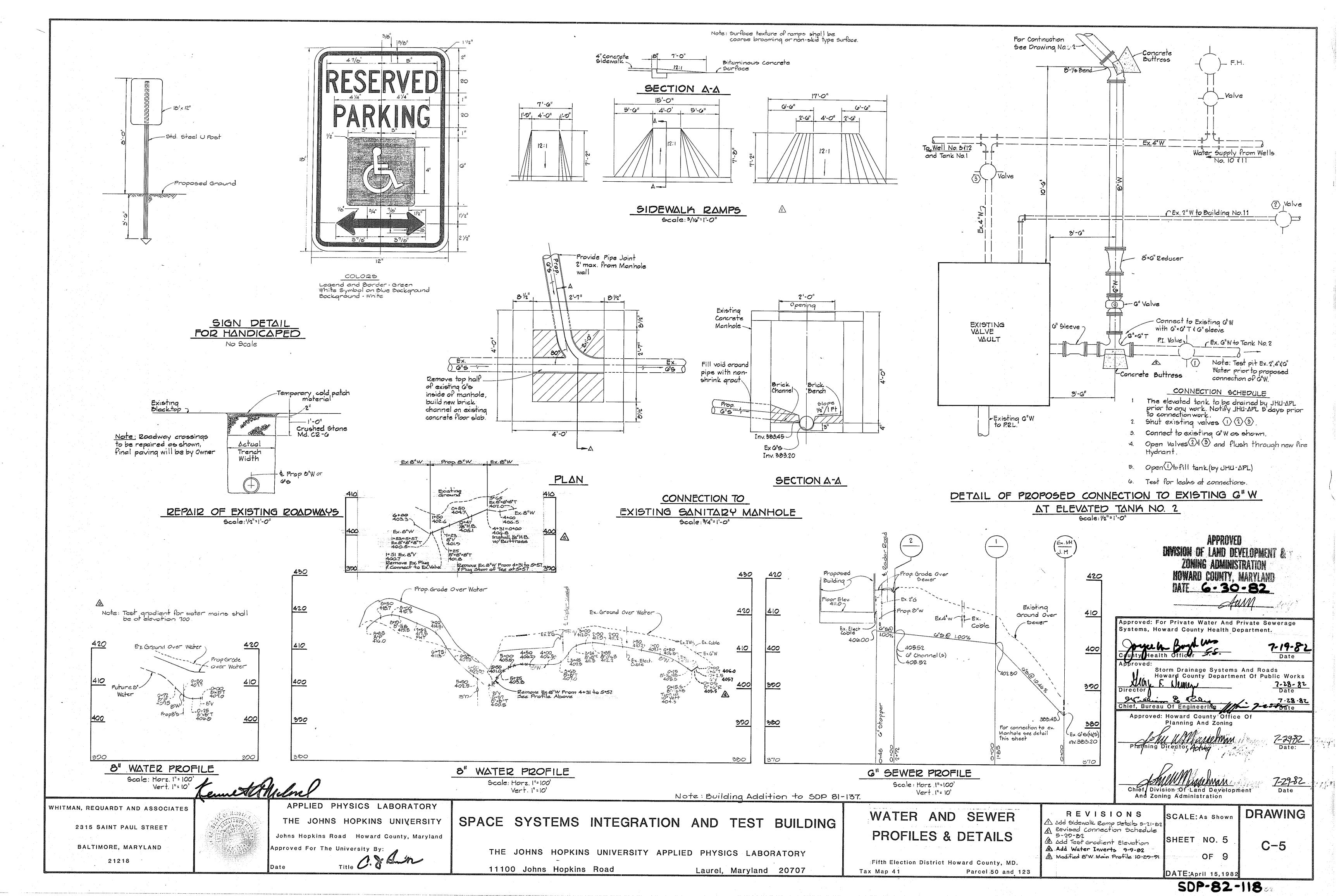
OF 9

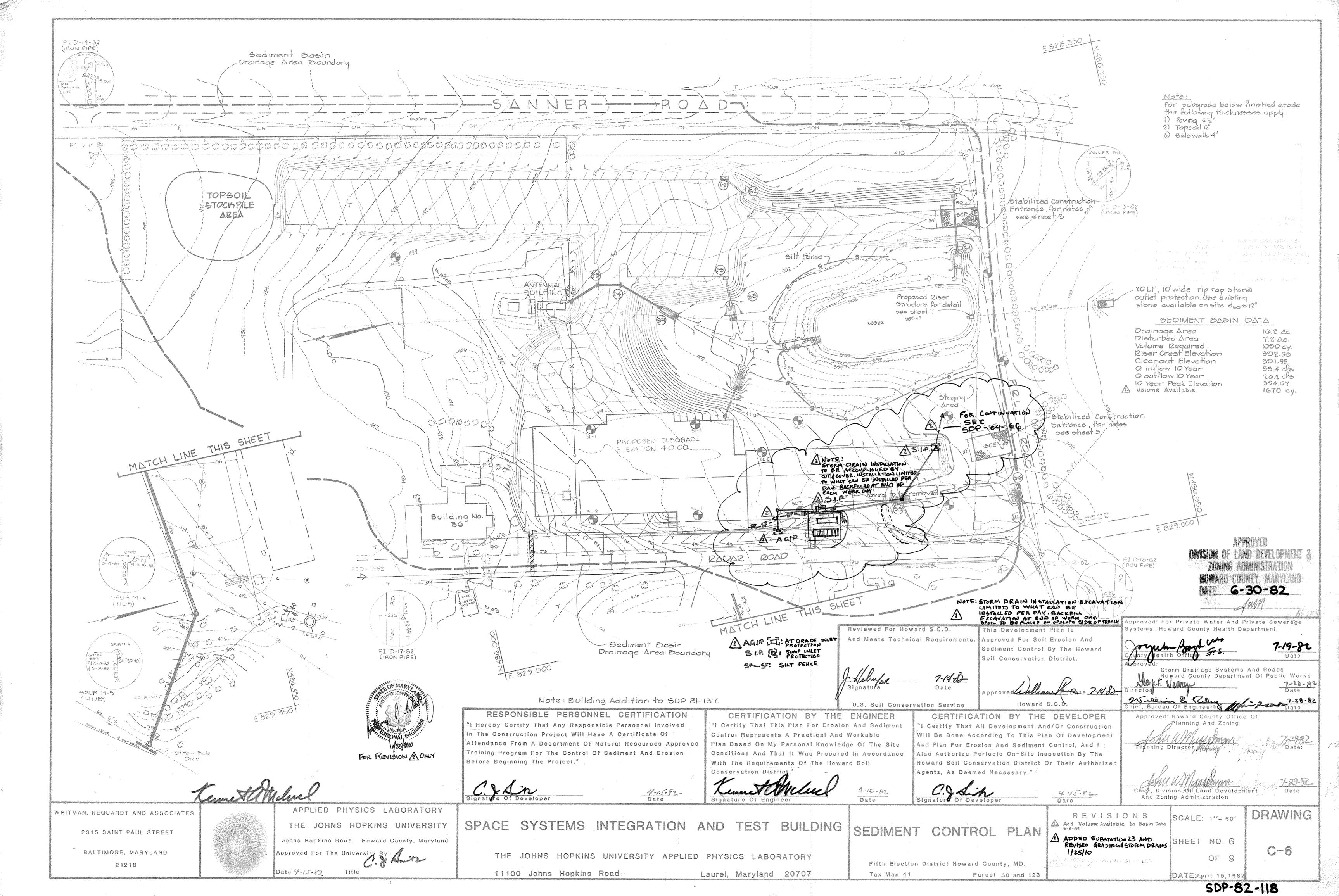
DATE April 15,1982 SDP-82-118 -6-82











### SEDIMENT CONTROL NOTES

- 1. ALL SEDIMENT CONTROL PROCEDURES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED PLANS AND THE CRITERIA OF THE HOWARD SOIL CONSERVATION DISTRICT AND THE U.S. SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" (HEREINAFTER REFERRED TO AS "STANDARDS AND SPECIFICATIONS").
- 2. ALL DISTURBED AREAS WHICH ARE TO BE EXPOSED FOR MORE THAN 60 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING IMMEDIATELY FOLLOWING ROUGH GRADING IN ACCORDANCE WITH PAGES 50.01 THROUGH 50.03 OF THE "STANDARDS AND SPECIFICATIONS."
- THESE GRADING AND SEDIMENT CONTROL DRAWINGS SHALL BE USED FOR THE GRADING AND CONSTRUCTION OF SEDIMENT CONTROL PRACTICES ONLY. FOR ALL OTHER CONSTRUCTION SEE THE "FINAL DEVELOPMENT PLANS".
- 4. THE STABILIZED CONSTRUCTION ENTRANCE WILL BE IN ACCORDANCE WITH PAGE 16.03 OF THE "STANDARDS AND SPECIFICATIONS".
- 5. NO TEMPORARY SEDIMENT CONTROL DEVICE OR STRUCTURE MAY BE REMOVED OR DESTROYED WITHOUT APPROVAL OF THE HOWARD SOIL CONSERVATION DISTRICT.

### SEEDING NOTES

- 1. ALL DISTURBED AREAS ARE TO BE STABILIZED AND SEEDED AS SOON AS GRADING IS COMPLETED.
- 2. THE SURFACE PREPARATION SHALL INCLUDE 6" OF TOPSOIL WITH AN APPLICATION OF GROUND LIMESTONE AT 50 LBS/1000 SF. LIME, WHEN APPLIED HYDRAULICALLY, SHALL BE A SINGLE, SEPERATE OPERATION.
- 3. ALL DISTURBED AREAS ARE TO BE FERTILIZED AND SEEDED WITH A HYDROSEED SLURRY. THE SLURRY SHALL CONTAIN:
  - a) 10-10-10 FERTILIZER @ 25 LBS/1000 SF.
  - b) KENTUCKY 31 TALL FESCUE @ 60 LBS/ACRE.
  - c) KOREAN LESPEDEZA @ 20 LBS/ACRE.
  - d) SUITABLE MULCH
- 4. THE MULCH SHALL BE STRAW @ 50 LBS/1000 SF. OR WOOD CELLULOSE @ 1200 LBS/ACRE. THE WOOD CELLULOSE MULCH SHALL BE ADDED ONLY AFTER THE SEED AND FERTILIZER HAVE BEEN THOROUGHLY MIXED.
- 5. THE FERTILIZER, SEED, AND MULCH SHALL BE MIXED WITH SUFFICIENT WATER TO PRODUCE A SLURRY. THE SLURRY SHALL BE APPLIED UNDER PRESSURE AT THE RATE SPECIFIED OR AS DIRECTED WITH HYDRAULIC EQUIPMENT APPROVED PRIOR TO USE.
- 6. ANY AREA INADEQUATELY COVERED SHALL BE RESEEDED.

## SEQUENCE OF CONSTRUCTION OPERATIONS

- 1. NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS, AND PERMITS 48 HOURS BEFORE ANY WORK BEGINS.
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES, PLACE SILT FENCE, AND CONSTRUCT SEDIMENT BASIN RISER STRUCTURE AND OUTLET PROTECTION.
- 3. BLOCK THE 15" RCP OF THE SEDIMENT BASIN RISER STRUCTURE.
- 4. REMOVE THE EXISTING PARKING AREA IN THE VICINITY OF THE PROPOSED BUILDING.
- 5. STRIP THE TOPSOIL IN THE VICINITY OF THE PROPOSED BUILDING AND THE PROPOSED PARKING AREA. STOCK PILE TOPSOIL IN DESIGNATED AREA. DO NOT STRIP TOPSOIL IN THE VICINITY OF THE STORM DRAIN SYSTEM FOR S4.
- 6. EXCAVATE FOR THE BUILDING FOUNDATION TO SUBGRADE ELEVATION 410.00.
- 7. FILL IN ALL APPROPRIATE AREAS EXCEPT IN THE VICINITY OF THE STORM DRAIN SYSTEM FOR S4.
- 8: STRIP AND STOCKPILE TOPSOIL FROM THE REMAINING AREAS TO BE GRADED.
- 9. CONSTRUCT STORM DRAIN SYSTEM FOR S4.
- 10. FINISH GRADING THE SITE.
- 11. CONSTRUCT ALL OTHER STORM DRAINS AND UTILITIES.
- 12. CONSTRUCT CURB AND GUTTER, PAVEMENT, SIDEWALK, AND OTHER SITE IMPROVEMENTS.
- 13. SEED AND STABILIZE PROPOSED GRASSED AREAS.
- 14. PUMP THE STANDING CLEAN WATER IN SEDIMENT BASIN OVER RISER.
- EXCAVATE THE POND TO THE PROPOSED ELEVATIONS AND STABILIZE. DISPOSE OF THE SEDIMENT FROM THE POND IN A MANNER APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- 16. REMOVE THE TEMPORARY 15" CONCRETE PLUG FROM THE RISER STRUCTURE.

Note: Developer will provide the Howard Soil Conservation District with an as built plan of the bond within 30 days of completion.

# STABILIZED CONSTRUCTION

## ENTRANCE

- 1. STONE SIZE USE MSHA SIZE NO.2  $(2-\frac{1}{2}$ " TO 1") OR AASHTO DESIGNATION M43 SIZE NO.2  $(2-\frac{1}{2}"$  TO  $1-\frac{1}{2}"$ ). USE CRUSHED STONE.
- 2. LENGTH AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- 3. THICKNESS NOT LESS THAN EIGHT (8) INCHES.
- 4. WIDTH NOT LESS THAN FULL WIDTH OF PROPOSED PAVING.
- 5. WASHING WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRISHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER-COURSE THROUGH USE OF SAND BAGS. GRAVEL, OR OTHER APPROVED METHORS.
- 6. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

# STORM WATER MANAGEMENT SPECIFICATIONS

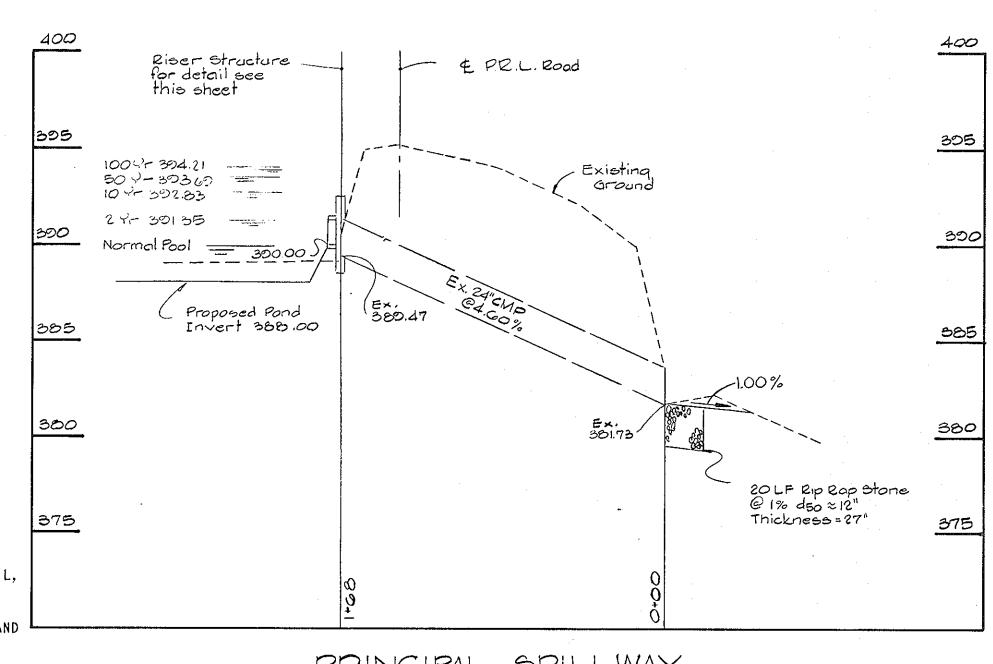
#### CONCRETE

### 1.. MATERIALS

- a. CEMENT NORMAL PORTLAND CEMENT SHALL CONFORM TO THE LATEST ASTM SPECIFICATION C-150.
- b. WATER THE WATER USED IN CONCRETE SHALL BE CLEAN, FREE FROM OIL. ACID, ALKALI, SCALES, ORGANIC MATTER OR OTHER OBJECTIONABLE
- c. SAND THE SAND USED IN CONCRETE SHALL BE CLEAN, HARD, STRONG AND DURABLE, AND SHALL BE WELL GRADED WITH 100 PERCENT PASSING A ONE-QUARTER INCH SIEVE. LIMESTONE SAND SHALL NOT BE USED.
- d. COARSE AGGREGATE THE COARSE AGGREGATE SHALL BE CLEAN, HARD, STRONG AND DURABLE, AND FREE FROM CLAY OR DIRT. IT SHALL BE WELL GRADED WITH A MAXIMUM SIZE OF ONE AND ONE-HALF (1-1/2) INCHES.
- e. REINFORCING STEEL-THE REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE BILLET STEEL OR RAIL STEEL CONFORMING TO ASTM SPECIFICATION A-615,
- 2. DESIGN MIX THE CONCRETE SHALL BE MIXED IN THE FOLLOWING PROPORTIONS, MEASURED BY WEIGHT. THE WATER-CEMENT RATIO SHALL BE 5-1/2 TO 6 U.S. GALLONS OF WATER PER 94 POUND BAG OF CEMENT. THE PROPORTION OF MATERIALS FOR THE TRIAL MIX SHALL BE 1:2:3-1/2. THE COMBINATION OF AGGREGATES MAY BE ADJUSTED TO PRODUCE A PLASTIC AND WORKABLE MIX THAT WILL NOT PRODUCE HARSHNESS IN PLACING OR HONEYCOMBING IN THE STRUCTURE.
- 3. MIXING-THE CONCRETE INGREDIENTS SHALL BE MIXED IN BATCH MIXERS UNTIL THE MIXTURE IS HOMOGENEOUS AND OF UNIFORM CONSISTENCY. THE MIXING OF EACH BATCH SHALL CONTINUE FOR NOT LESS THAN ONE AND ONE-HALF MINUTES AFTER ALL THE INGREDIENTS, EXCEPT THE FULL AMOUNT OF WATER, ARE IN THE MIXER. THE MINIMUM MIXING TIME IS PREDICTED ON PROPER CONTROL OF THE SPEED OF ROTATION OF THE MIXER AND OF THE INTRODUCTION OF THE MATERIALS, INCLUDING WATER, INTO THE MIXER. WATER SHALL BE ADDED PRIOR TO, DURING, AND FOLLOWING THE MIXER-CHARGING OPERATIONS. EXCESSIVE OVERMIXING REQUIRING THE ADDITION OF WATER TO PRESERVE THE REQUIRED CONCRETE CONSISTENCY SHALL NOT BE PERMITTED. TRUCK MIXING WILL BE ALLOWED PROVIDED THAT THE USE OF THIS METHOD SHALL CAUSE NO VIOLATION OF ANY APPLICABLE PROVISIONS OF THE SPECIFICATIONS GIVEN HERE.
- 4. FORMS-THE FORMS SHALL HAVE SUFFICIENT STRENGTH AND RIGIDITY TO HOLD THE CONCRETE AND TO WITHSTAND THE NECESSARY PRESSURE, TAMPING, AND VIBRATION WITHOUT DEFLECTION FROM THE PRESCRIBED LINES. THEY SHALL BE MORTAR-TIGHT AND CONSTRUCTED SO THAT THEY CAN BE REMOVED WITHOUT HAMMERING OR PRYING AGAINST THE CONCRETE THE INSIDE OF FORMS SHALL BE OILED WITH A NON-STAINING MINERAL OIL OR THOROUGHLY WETTED BEFORE
- CONCRETE IS PLACED. 5. REINFORCING STEEL-ALL REINFORCING MATERIAL SHALL BE FREE OF DIRT, RUST, SCALE, OIL, PAINT OR ANY OTHER COATINGS. THE STEEL SHALL BE ACCURATELY PLACED AND SECURELY TIED AND BLOCKED INTO POSITION SO THAT NO MOVEMENT OF THE STEEL WILL OCCUR DURING PLACEMENT OF CONCRETE
- 6. CONSOLIDATING-CONCRETE SHALL BE CONSOLIDATED WITH INTERNAL TYPE MECHANICAL VIBRATORS. VIBRATION SHALL BE SUPLEMENTED BY SPADING AND HAND TAMPING AS NECESSARY TO INSURE SMOOTH AND DENSE CONCRETE ALONG FORM SURFACES, IN CORNERS, AND AROUND EMBEDDED ITEMS.
- 7. FINISHING-DEFECTIVE CONCRETE, HONEYCOMBED AREAS, VOIDS LEFT BY THE REMOVAL OF TIE RODS. RIDGES ON ALL CONCRETE SURFACES PERMANENTLY EXPOSED TO VIEW OR EXPOSED TO WATER ON THE FINISHED STRUCTURE. SHALL BE REPAIRED IMMEDIATELY AFTER THE REMOVAL OF FORMS. ALL VOIDS SHALL BE REAMED AND COMPLETELY FILLED WITH DRY-PATCHING MORTAR
- 8. PROTECTION AND CURING-EXPOSED SURFACES OF CONCRETE SHALL BE PROTECTED FROM THE DIRECT RAYS OF THE SUN FOR AT LEAST THE FIRST THREE (3) DAYS. ALL CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST TEN (10) DAYS AFTER BEING PLACED. MOISTURE MAY BE APPLIED BY SPRAYING OR SPRINKLING AS NECESSARY TO PREVENT THE CONCRETE FROM DRYING.
- 9. PLACING TEMPERATURE-CONCRETE MAY NOT BE PLACED AT TEMPERATURES BELOW 37°F WITH THE TEMPERATURE FALLING, OR 34° WITH THE TEMPERATURE RISING.

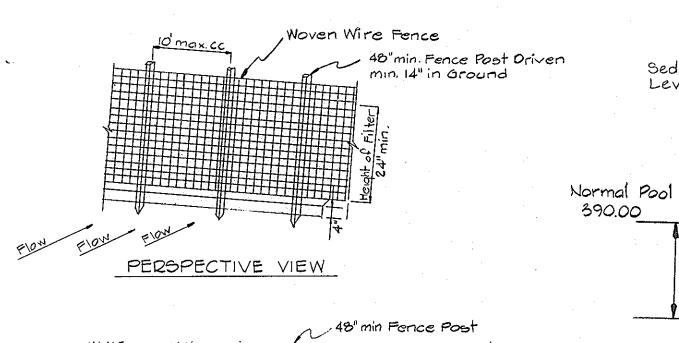
RESPONSIBLE PERSONNEL CERTIFICATION

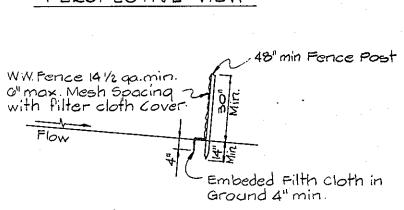
Attendance From A Department Of Natural Resources Approved



PRINCIPAL SPILLWAY Scale: Horz. 1": 50'

Vert, 11:5





SECTION CONSTRUCTION NOTES Posts: Steel either Tor U type or Woven wire fence to be fastened securely to fence posts with wire ties 2" hordwood Fence: Woven wire 14/2 Ga. max. 6

SILT FENCE DETAIL

Not to Scale

CERTIFICATION BY THE ENGINEER

"I Certify That This Plan For Erosion And Sediment

Plan Based On My Personal Knowledge Of The Site

Conditions And That It Was Prepared In Accordance

Control Represents A Practical And Workable

With The Requirements Of The Howard Soil

Note: Building Addition to SDP 81-137.

or staples. Filter cloth to be fastened securely to woven wire Pence with wire ties spaced every 24" at top and mid section

Sediment Cleanout Sediment Basin

Uproposed Pond

Bottom 388.00

Level 391.95

2'-0"

Pool Level

302.507

Approximate

Ex. Bottom 300.0

#4@6" Both -Ways in Center Approved: For Private Water And Private Sewerage Systems, Howard County Health Department. Storm Drainage Systems And Roads

Scale: 1/2"=11-0"

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."

4-15.82 Date

7-28-82 Date Chief, Bureau Of Engineering 7-28-82 hi 7-28 Date Approved: Howard County Office Of Planning And Zoning 7-29-82 Chief, Division of Land Development Date And Zoning Administration

21-6

SECTION BB

TOP SLAB

-389.96

#5@12"EW/

SECTION A-A

DETAIL RISER STRUCTURE

-ex. 24 CMP

2! Footer see detail

#5@ 6"EW

Sidewalk Frame & Cover

Ex. 24" CMP

389.47

Howard County Standard 50-301

Weld water stop

collar to existing CMP

3/8" Expansion Joint

DIVISION OF LAND DEVELOPMENT &

HOWARD COUNTY, MARYLAND

MT 6-30-82

Howard County Department Of Public Works

the 2' Footer pee detail

this sheet

- <del>---- --- ---</del> ----

-15"RCP

Trash rack bar

4'.4"

#5@ 6"EW

2iser Crest

4LF 15" RCP

@1.00%

Trash rack bars 3/4" × 14"

(one centered per

wier opening)

W/2"x2"x14" galvanized anales and 21/2" stainless

steel expansion bolts

≠5@12"EW

Temporary 15"

Concrete Pluq

in center—

galvanized bars

7-2982

7-19-82

WHITMAN, REQUARDT AND ASSOCIATES

These plans have been reviewed for the

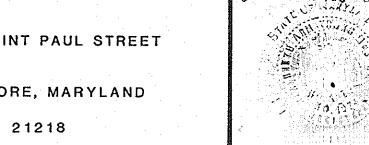
construction, soil erosion and sediment

Howard Soil Conservation District and meet

2315 SAINT PAUL STREET

U.S. Soil Conservation Service

BALTIMORE, MARYLAND



Approved

emstellelikel

Howard S.C.D.

These plane for small pond construction, soil crosion and sediment control meet the "I Hereby Certify That Any Responsible Personnel Involved the technical requirements for small pond | requirments of the Howard Soil Conservation In The Construction Project Will Have A Certificate Of

APPLIED PHYSICS LABORATORY

THE JOHNS HOPKINS UNIVERSITY

Training Program For The Control Of Sediment And Erosion Before Beginn' g The Project."

Signature Of Developer

4-15-82 Date

Conservation District.

4-15-82 Date

mesh opening

Lourel erosion control cloth

Mirit'i 100x

Polyfilter X

or equal

Filter Cloth: Filter X

**NOTES & DETAILS** 

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

REVISIONS Add Temporary 15" Concrete Plug Revise Sequence Notes 14,15,416 Add 2' Footer 5/28/82 Add G.W.M. Specifications

SCALE: As Shown SHEET NO. 7

DATE: April 15,1982

DRAWING C-7of 9

SDP-82-118

Johns Hopkins Road Howard County, Maryland Approved For The University By:

Date 4-15-12 Title

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

11100 Johns Hopkins Road

SPACE SYSTEMS INTEGRATION AND TEST BUILDING

Laurel, Maryland 20707

