

GENERAL NOTES:

- DPZ REFERENCES: L 9101F 461 (P. 153), L 2548F 388 (P. 256), BA-989-D, BA-93-040E, BA-663-D, BA-07-008C, ZRA-071, F-07-050 (VOIDED), WP-07-076, WP-09-027, WP-10-041, WP-11-066, WP-12-012, WP-12-136, WP-13-082, WP-13-135, WP-14-127, SDP-08-083, SDP-08-083FC, 24-45-68-D, SDP-94-031, ECP-15-037, WP-15-137, SDP-16-002, WP-16-068 **BA-16-021C**
- THE PERMIT APPLICATION DEADLINE DATE FOR THE NEWLY RED-LINED FEATURES IS ONE YEAR FROM THE LETTER APPROVING THE RED LINE. DEADLINE DATE: 01-08-2017.
- THIS PROJECT IS SUBJECT TO WP-16-068, APPROVED 12/30/2015, TO WAIVE SECTION 16.120(C)(4) TO ALLOW SINGLE FAMILY ATTACHED LOT TO BE LOCATED UP TO 600' FROM A PUBLIC ROAD RIGHT-OF-WAY (HARRIET TUBMAN LANE), AND A WAIVER TO SECTIONS 16.102 AND 16.144(B) TO ALLOW PROPOSED OPEN SPACE LOT 25 (HOWARD COUNTY RECREATION AND PARKS) TO NOT HAVE DIRECT ACCESS TO A PUBLIC ROAD SINCE IT IS ADJACENT TO OTHER HOWARD COUNTY OPEN SPACE AND IS ALSO ACCESSIBLE THROUGH PROPOSED OPEN SPACE LOT 25 (HOMEOWNERS ASSOCIATION). APPROVAL SUBJECT TO THE FOLLOWING CONDITIONS:
 - COMPLIANCE WITH ANY SUBDIVISION REVIEW COMMITTEE (SRC) COMMENTS BASED ON THE REVIEW AND APPROVAL OF THE ASSOCIATED FINAL SUBDIVISION PLAT (F-16-054), THE SITE DEVELOPMENT PLAN (SDP-16-002), AND THE RED LINE REVISION WHICH IS REQUIRED TO SHOW THE ASSOCIATED AND REQUIRED IMPROVEMENTS FOR THIS DEVELOPMENT ON PARCEL 256, TEMPLE BETH SHALOM (SDP-94-031).
 - A GENERAL NOTE SHALL BE ADDED TO SDP-16-002 THAT CLEARLY STATES THAT ALL INTERNAL ROADS (SANFORD PLACE AND JEREMIAH LANE) IN THIS DEVELOPMENT ARE PRIVATELY OWNED AND THEY ARE TO BE MAINTAINED BY THE SANFORD PLACE HOMEOWNERS ASSOCIATION (HOA), WHICH WILL PROVIDE PRIVATE TRASH COLLECTION AND SNOW REMOVAL SERVICES.
 - SDP-08-083 INCLUDED FOREST CONSERVATION FOR 1.65 ACRES OF PARCEL 256 (THIS SITE DEVELOPMENT PLAN). THE FOREST CONSERVATION CREDIT FOR THE 1.65 AC HAS BEEN TRANSFERRED TO SDP-16-002 FOR THE INTEGRATED DEVELOPMENT OF SANFORD PLACE AND TEMPLE BETH SHALOM. REFERENCE SDP-16-002 SHEET 12 FOR THE FOREST CONSERVATION WORKSHEET.
 - SIDEWALK CONSTRUCTION WITHIN AND ALONG THE FRONTAGE OF PARCEL 256 (AS SHOWN REVISION #5, THIS SDP) SHALL BE BONDED AND UNDER THE TERMS OF A DPW DEVELOPER AGREEMENT. EXECUTION OF THE DPW DEVELOPER AGREEMENT IS REQUIRED PRIOR TO SIGNATURE APPROVAL OF SDP-16-002.

- REFERENCE CONDITIONAL USE BA CASE NO. 16-021C APPROVED SEPT. 29, 2016 TO ALLOW FOR THE EXPANSION OF THE EXISTING STRUCTURE USED PRIMARILY FOR RELIGIOUS ACTIVITIES WITH A CLASSROOM ADDITION IN AN R-12 ZONING DISTRICT.
- PERIMETER LANDSCAPING WAS PREVIOUSLY ADDRESSED UNDER THIS SITE DEVELOPMENT PLAN (SDP-94-031) AND SHALL BE RETAINED FOR SATISFYING THE PERIMETER LANDSCAPE REQUIREMENT.
- THE PROPOSED CLASSROOM ADDITION (REDLINE #6) WILL ONLY SUPPORT THE EXISTING RELIGIOUS PROGRAMS AND CLASSES PROVIDED FOR THE EXISTING TEMPLE FOR SERVICES AND RELIGIOUS SCHOOL SCHEDULE. SEE SITE DATA ON SHEET 7. EXISTING AND ANY ADDITIONAL CAPACITY WILL BE MET USING THE EXISTING PARKING FACILITY AS SHOWN ON THESE PLANS.
- ANY FURTHER DEVELOPMENT WILL REQUIRE STORMWATER MANAGEMENT IF CUMULATIVELY THE TOTAL ADDITIONAL DISTURBANCES FROM THE ORIGINAL SITE PLAN EXCEED 5,000SF OF NEW IMPERVIOUS AREA. (REDLINE #2 ADDS 2,946 SF OF NEW IMPERVIOUS AREA, NETTING 2,054 OF NEW ADDITIONAL IMPERVIOUS AREA ALLOWED BEFORE SWM IS REQUIRED)
- ON 5/31/22 THE HOWARD COUNTY BOARD OF APPEALS HEARING EXAMINER APPROVED CASE NO. BA-21-043C FOR A CONDITIONAL USE FOR A PRIVATE SCHOOL (ACADEMIC) SEC. 131-0-1.48 FOR K-8th GRADE.

OPERATING HOURS MONDAY THROUGH FRIDAY:
 MORNING DROP-OFF: 7:30 - 8:30am
 CLASS: 8:30 - 3:15pm
 DISMISSAL: 3:15pm - 3:30pm
 AFTERCARE: 3:30pm - 6:00pm

**** 11. PARKING REQUIREMENTS FOR SCHOOL:**

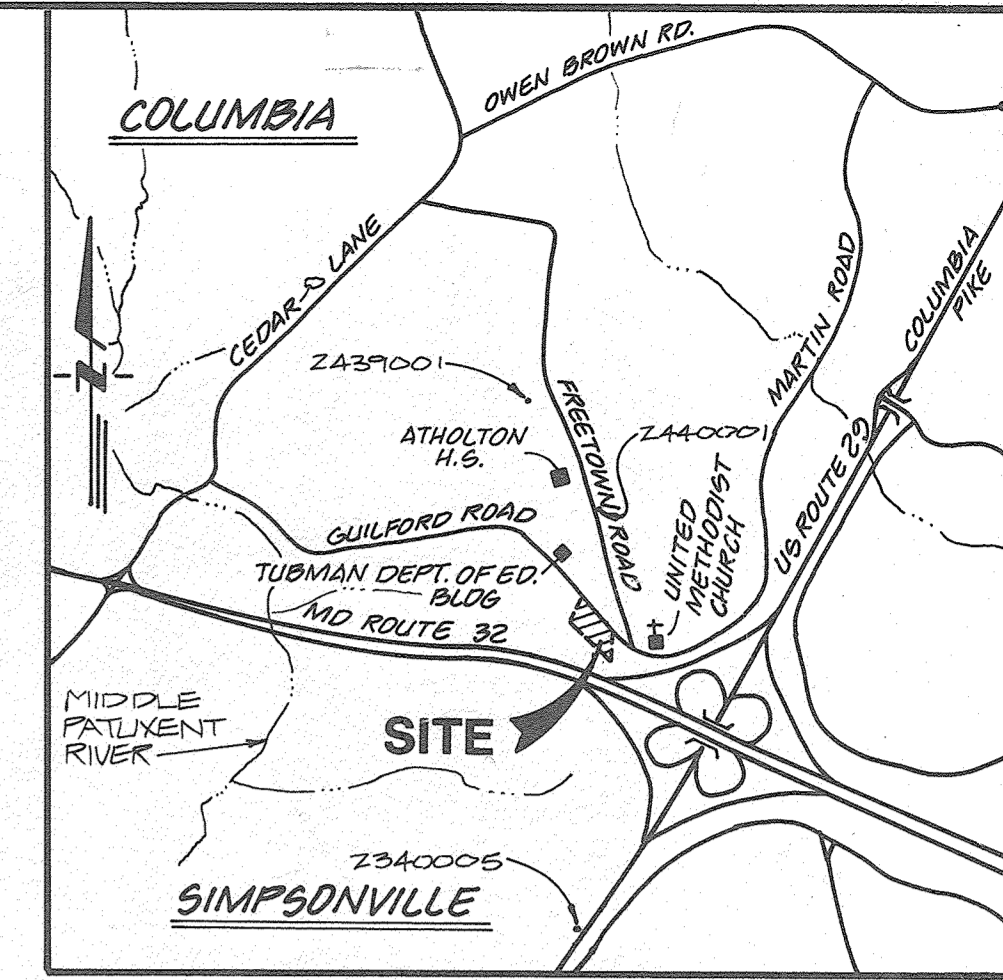
FOR A MAXIMUM 120 STUDENTS, AT 1 SPACE PER 6 STUDENTS
 A TOTAL OF SPACES REQUIRED = 20 SPACES

TOTAL NUMBER OF SPACES AVAILABLE = 109 SPACES.

THE SCHOOL OPERATING HOURS DO NOT OVERLAP WITH THE RELIGIOUS OPERATING TIMES OF THE FACILITY.

12. TRAFFIC STUDY:

- DATE OF REPORT: AUGUST 2022
- DATE OF COUNTS: 11/8/2018 HARRIET TUBMAN / CEDAR LANE, 5/3/2022 HARRIET TUBMAN / FREETOWN
- REPORT SUBMITTED AS PART OF PLAN NO: SDP-94-031
- SCHOOLS WERE IN SESSION ON COUNT DATES
- INTERSECTIONS STUDIED: HARRIET TUBMAN / CEDAR LANE, HARRIET TUBMAN / FREETOWN LOS FOR BOTH IS 1A'
- NO MITIGATION.



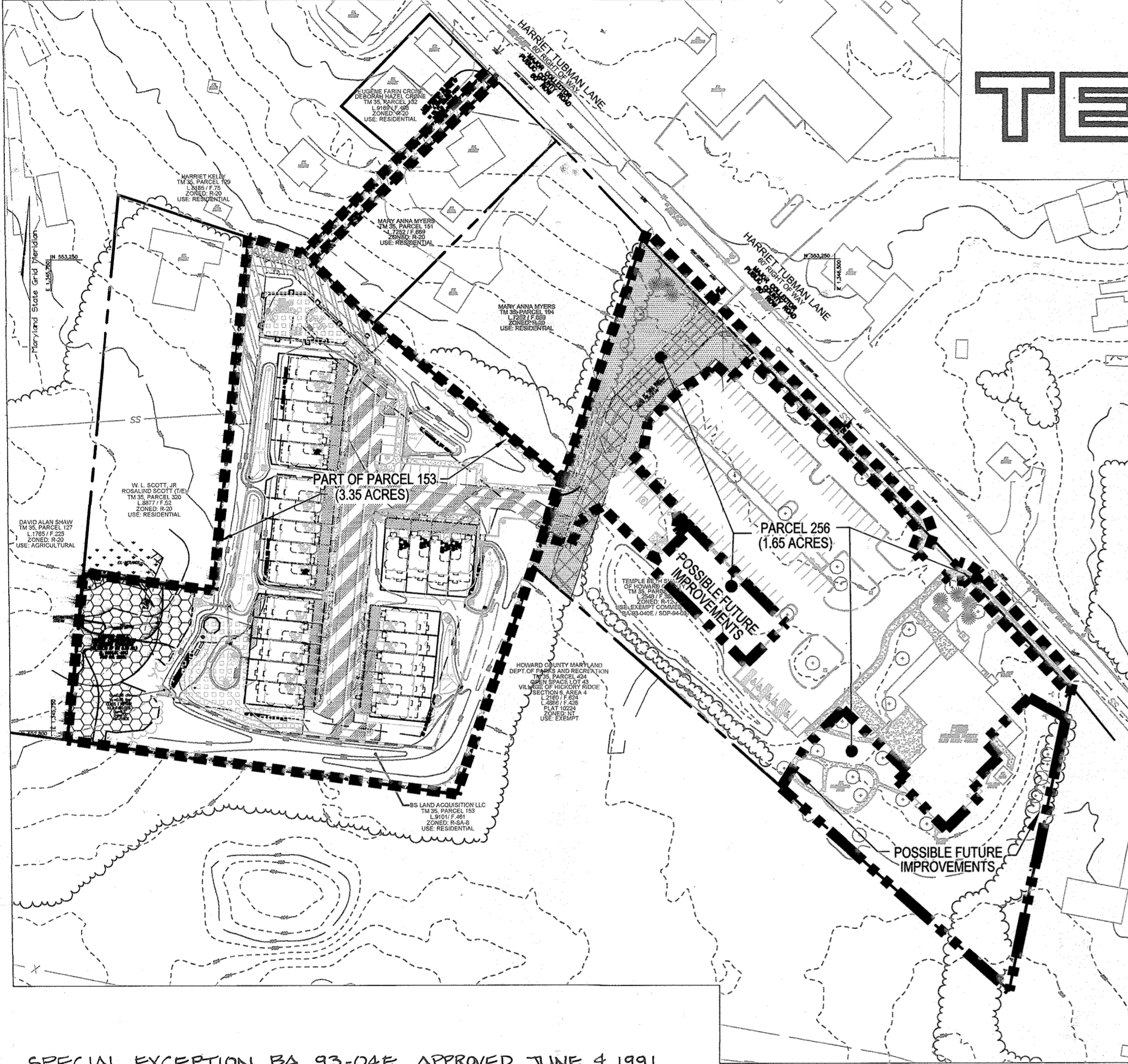
SITE DEVELOPMENT PLAN

TEMPLE BETH SHALOM

5TH ELECTION DISTRICT

TAX MAP 35 BLOCK 24 PARCEL 256

HOWARD COUNTY, MARYLAND



FOREST CONSERVATION TRACT AREA
 (REF: SDP-16-002)
 SCALE: 1"=100'

SHEET INDEX

SHEET NO.	TITLE / DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SWM OUTFALL PLAN
4	SITE DETAILS & LANDSCAPE DETAILS
5	STORMWATER MANAGEMENT PROFILES & DETAILS
6	STORMWATER MANAGEMENT PROFILES & DETAILS
7	STORMWATER MANAGEMENT PROFILES & DETAILS
8	SEDIMENT CONTROL PLAN
9	SEDIMENT CONTROL PLAN
10	SEDIMENT CONTROL DETAILS & NOTES
11	LANDSCAPE PLAN
12	CLASSROOM ADDITION PLAN

SPECIAL EXCEPTION BA 93-04E APPROVED JUNE 4, 1991
 SUPERSEDED BY BA 93-40E
 SPECIAL EXCEPTION BA 93-40E APPROVED JAN. 25, 1994
 APPROVAL CONDITIONS:

- The Petitioner shall comply with all applicable Federal, State and County laws and regulations.
- All exterior lighting shall be directed downward and inward so as not to shine onto vicinal properties or roads.
- The exterior walls of the proposed structure are to be constructed as indicated in the testimony presented or with similar materials or of other materials compatible with the neighborhood.
- No private bus service shall be provided to students unless sufficient loading areas are installed.
- Phase II approval for the religious facility shall be void unless Phase II construction is completed within ten (10) years of the date of this Decision and Order.

HOWARD COUNTY BOARD OF APPEALS

STATE OF MARYLAND
 ARCHITECTURE & PROFESSIONAL ENGINEERING
 No. 22418
 David Joseph
 9/22/22
 FOR REVISION B ONLY

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 William Joseph
 5/9/94

PLAT NO OR L/F	BLOCK NO	ZONE	TAX/ZONE MAP/ELEC. DIST.	CENSUS TR.	PARCEL NO.
L 2548 F 388	24	R-20	35	5th	256
WATER CODE:	E 29		SEWER CODE:	5322300	

TEMPLE BETH SHALOM

COVER SHEET
 SDP-94-31

KCI TECHNOLOGIES, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 8308 PATUXENT RANGE ROAD
 JESSUP, MARYLAND 20794-8909
 PHONE: (301) 963-1821 (WASH.)
 (410) 702-8088 (BALT.)
 DATE: JULY 1993 SCALE:

BY	NO.	REVISION	DATE
RYF	8	ADD GEN. NOTES 10, 11 & 12.	9/22/22
RHV	7	ADD DETAIL FOR ELEVATED WALK.	02/06/18
RHV	6	ADD PROPOSED CLASSROOM ADDITION TO EX. BUILDING	11/22/16
RHV	5	REVISION TO INCORPORATE PROPOSED IMPROVEMENTS ON PARCEL 256 AS SHOWN ON SDP-16-002	2/24/10

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 James J. ... 5/16/94
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 ... 5/13/94
 CHIEF BUREAU OF ENGINEERING

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
 Patricia Engle ... 5/10/99
 U.S. SOIL CONSERVATION SERVICE

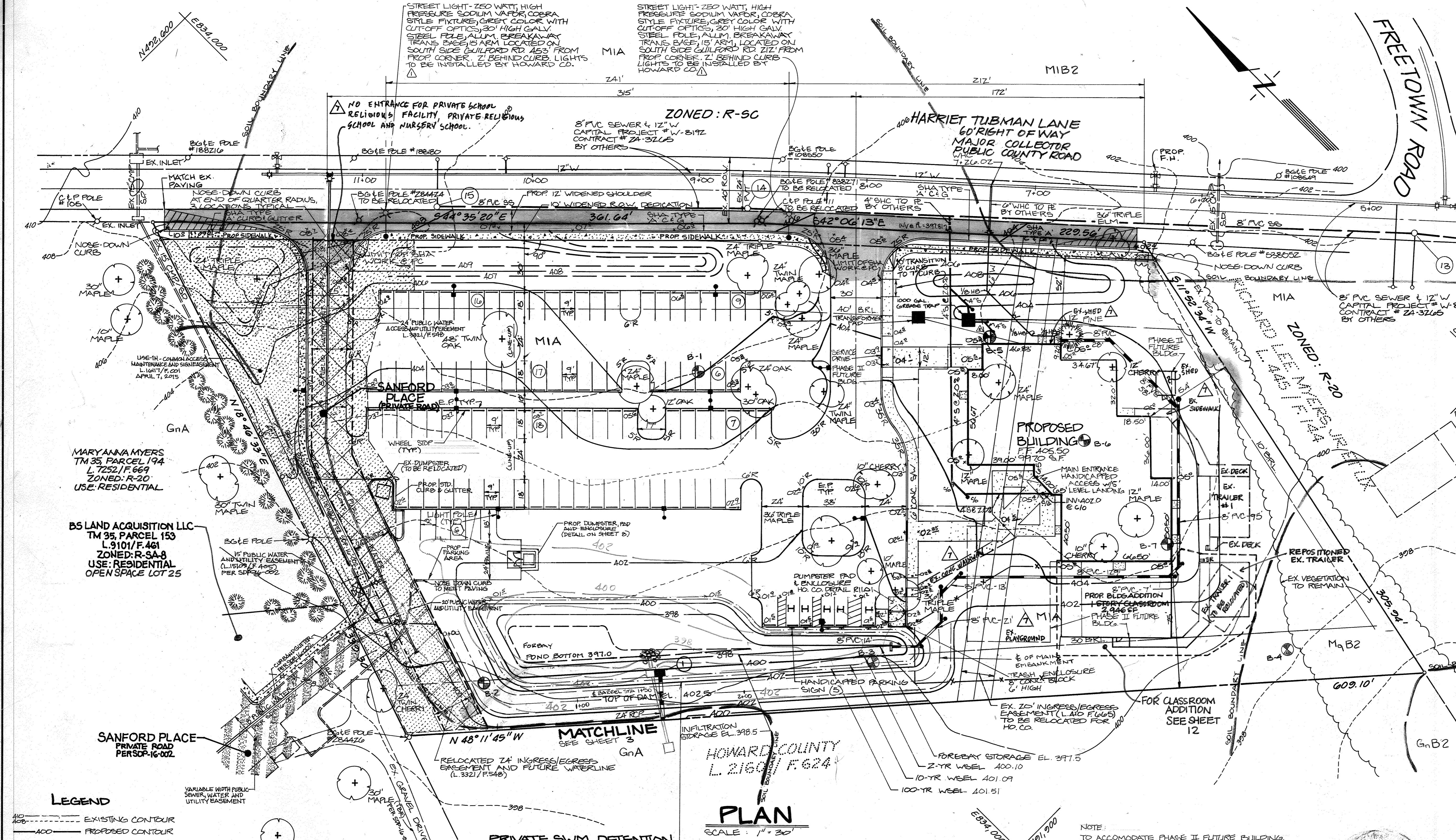
THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 ... 5/10/94
 HOWARD SOIL CONSERVATION DISTRICT

CERTIFICATE BY DEVELOPER
 I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
 David Joseph 7/21/93
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)
 DAVID J. JOSEPH

ENGINEER CERTIFICATE
 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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 ... 8/23/93
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
 William Joseph

ADDRESS CHART
 BLDG. ADDRESS
 8070 HARRIET TUBMAN LANE

OWNER/DEVELOPER
 BETH SHALOM CONGREGATION
 96 DAVID ISENBERG
 4221 EAGLEWING COURT
 ELLICOTT CITY, MD 21042
 (410) 461-8920



SITE DATA

- PROPOSED USE: RELIGIOUS ACTIVITY (SYNAGOGUE)
- ZONING: R-20
- TAX MAP 35, BLOCK 24, PARCEL 256
- AREA OF DEDICATED R.O.W.: (10' FRONTAGE) 0.1155 AC.
- NET AREA OF SITE: 3.7985 AC.
- BUILDING COVERAGE: (PHASE I) AREA 10,078 S.F. = 0.2312 AC.
- PARKING AREA COVERAGE: (PAVED AREA) 24,844 S.F. = 1.2519 AC.
- OPEN SPACE/GREEN SPACE: 100,520 S.F. = 2.3076 AC.
- PARKING SPACES: 109 (RELAT WITH BLDG AND PARKING REMAIN)
- REQUIRED: 100 SEAT CAPACITY = 100 SPACES
- PROPOSED: 109 SPACES (5 HANDICAP SPACES INCLUDED)
- PARKING SPACE SIZE: 13' X 18' HANDICAPPED TO WHEEL STOP
- TOTAL PARKING AREA: 54,864 S.F.

- RELIGIOUS SERVICES:
 - 1. FRIDAY EVENINGS
 - 2. SATURDAY MORNINGS
 - 3. JEWISH HOLIDAYS
 - 4. WEEK DAY MORNINGS: 8:00 A.M. TO 9:00 A.M.
 - 5. WEEK DAY EVENINGS: 6:30 P.M. TO 7:30 P.M.
- RELIGIOUS SCHOOL:
 - 1. WEDNESDAY 4:00 P.M. TO 7:00 P.M.
 - 2. SATURDAY 10:00 A.M. TO 12:00 P.M.
- ALL EXIST. STRUCTURES ON SITE HAVE BEEN REMOVED
- WATER METER TO BE LOCATED INSIDE BUILDING.
- PROPOSED NEW IMPERVIOUS AREA (REDLINE # 2): 2,946 SF

DISCHARGE SUMMARY TABLE

BETH SHALOM SWM FACILITY

Drainage Area To Road - By-Flow Drainage Area	2-YR STORM	10-YR STORM	100-YR STORM
PEAK DISCHARGE (PRE-DEVELOPMENT)	2 CFS	6 CFS	14 CFS
PEAK DISCHARGE (POST-DEVELOPMENT) (WITHOUT ATTENUATION)	19 CFS	20 CFS	29 CFS
PEAK DISCHARGE (POST-DEVELOPMENT) (WITH ATTENUATION) (SWM POND ONLY)	2 CFS	6 CFS	14 CFS
PEAK DISCHARGE (POST-DEVELOPMENT) (WITH ATTENUATION) (SWM POND AND BY-PASS AREA)	2 CFS	7 CFS	15 CFS

* 100-YR ATTENUATION NOT REQUIRED

THERE ARE NO HYDRIC SOILS OR SLOPES LESS THAN 15% HAVING SIGNIFICANT EROSION POTENTIAL ON THIS SITE

SOILS SYMBOL	SOIL NAME	PERCENT SLOPE	COMMENTS
GnA	GLENVILLE silt loam	0 to 3%
MgB2	MANOR gravelly loam	3 to 8%	moderately eroded
MIA	MANOR loam	0 to 3%
MIB2	MANOR loam	3 to 8%	moderately eroded

SOILS INFORMATION

- LEGEND**
- 410 --- EXISTING CONTOUR
 - 400 --- PROPOSED CONTOUR
 - 400.50 --- EXISTING SPOT ELEVATION
 - 400.52 --- PROPOSED SPOT ELEVATION
 - PROPOSED CURB & GUTTER
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED LIGHT POLE
 - PROPOSED TREE PROTECTION
 - USE-IN-COMMON ACCESS MAINTENANCE AND SERVICE EASEMENT L. 1617/F. 001
 - 24" PUBLIC WATER ACCESS AND UTILITY EASEMENT L. 3921/F. 548
 - VARIABLE WIDTH PUBLIC SEWER, WATER AND UTILITY EASEMENT

NOTE:

- SEE SDP-16-002 FOR CONTINUATION OF DEVELOPMENT OF PARCEL 153.
- THE DUMPSTER SHOWN ON THIS SDP IS FOR THE USE OF TEMPLE BETH SHALOM.
- SIDEWALK CONSTRUCTION WITHIN AND ALONG THE FRONTAGE OF PARCEL 256 (AS SHOWN REVISION #5, THIS SDP) SHALL BE BONDED AND UNDER THE TERMS OF A DPW DEVELOPER AGREEMENT. EXECUTION OF THE DPW DEVELOPER AGREEMENT IS REQUIRED PRIOR TO SIGNATURE APPROVAL OF SDP-16-002.

I hereby certify that the facility for stormwater management shown on this plan is as-built and meets the county requirements

MIKE SEDGHI - PE 13816
 BEN DYER ASSOCIATES, INC.
 8100 PROFESSIONAL PLACE
 LANDOVER, MD. 20785
 (301) 459-3200



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James R. Smith 5/18/94 DATE
 DIRECTOR

Anna Jurmain 5/18/94 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

REV 7 UPDATE PLAN TO REFLECT APP. COND. USE BA-21-43 C 9/22/92

REV 1 REVISED PER APPENDIX NO. 1 3/29/94

REV 2 REVISED PER APPENDIX NO. 2

REV 3 REVISED PER RED LINE REVISIONS 9/28/94

REV 4 REVISED PER RED LINE 6/3/97

REV 5 REVISE TO INCORPORATE PROPOSED IMPROVEMENTS ON PARCEL 256 AS SHOWN ON SDP-16-002 2/24/10

REV 6 ADD PROPOSED CLASSROOM SECTION TO EXISTING BLDG 11/21/10

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James R. Smith 5/18/94 DATE
 DIRECTOR

Paul D. Spence 5/13/94 DATE
 CHIEF BUREAU OF ENGINEERING

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

David J. ... 5/10/94 DATE
 COUNTY HEALTH OFFICER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL

Patricia Engle 5/10/94 DATE
 U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

David J. ... 5/10/94 DATE
 HOWARD SOIL CONSERVATION DISTRICT

CERTIFICATE BY DEVELOPER

I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

David J. ... 9/21/93 DATE
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)
 DAVID J. ...

ENGINEER CERTIFICATE

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David J. ... 8/23/93 DATE
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
 David J. ...

ADDRESS CHART

BLDG	ADDRESS
	6070 HARRIET TUBMAN LANE

OWNER/DEVELOPER

BETH SHALOM CONGREGATION
 9% DAVID ISENBERG
 AZZI EAGLESWING COURT
 ELLICOTT CITY, MD 21042
 (410) 461-5920

PLAT NO OR L/F	BLOCK NO	ZONE	TAX/ZONE MAP/ELEC. DIST.	CENSUS TR.	PARCEL NO.
L. 2548 P. 388	24	R-20	35	5th	256
WATER CODE:	E 29			SEWER CODE:	5322600

TEMPLE BETH SHALOM

SITE DEVELOPMENT PLAN

SDP-94-31

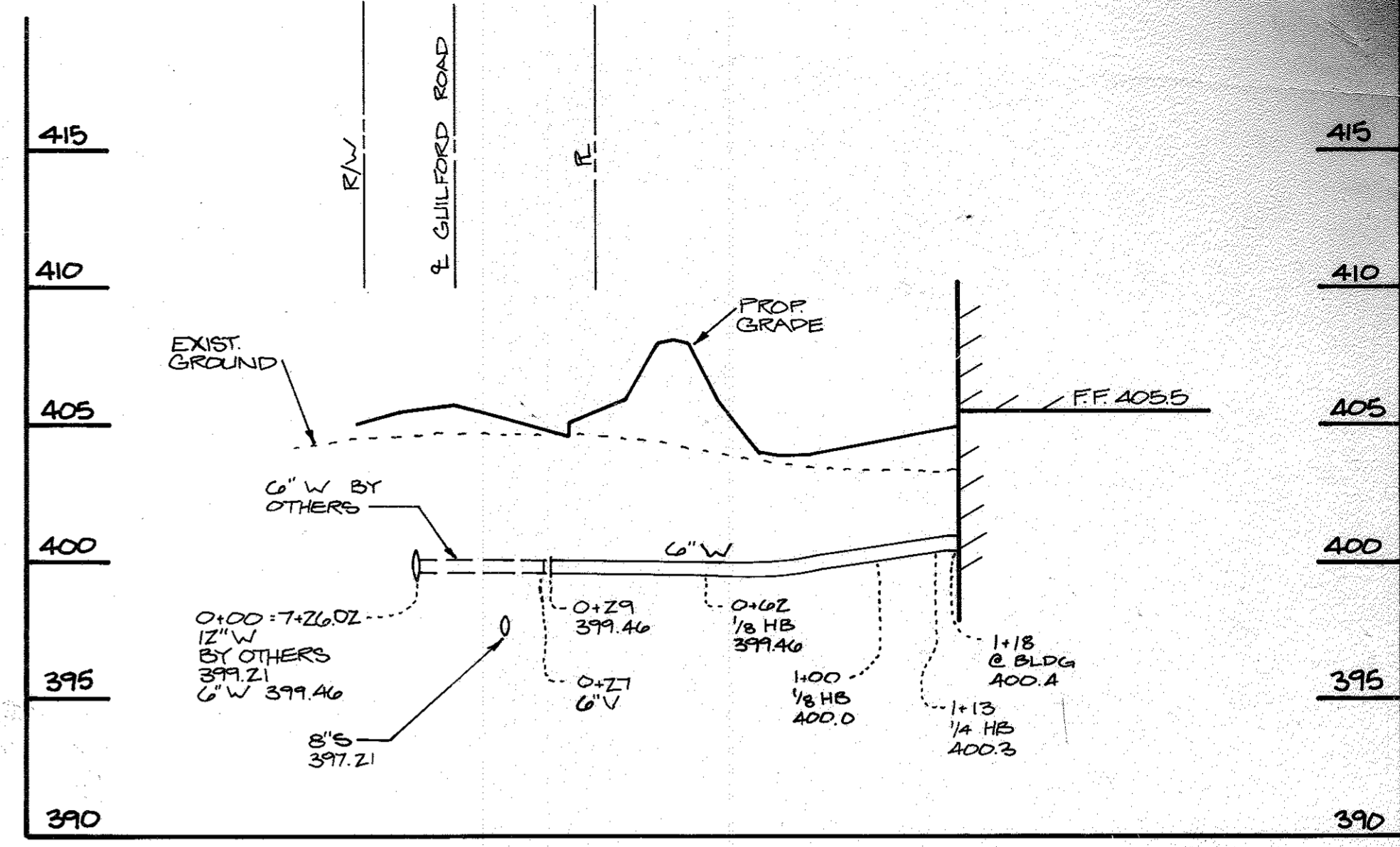
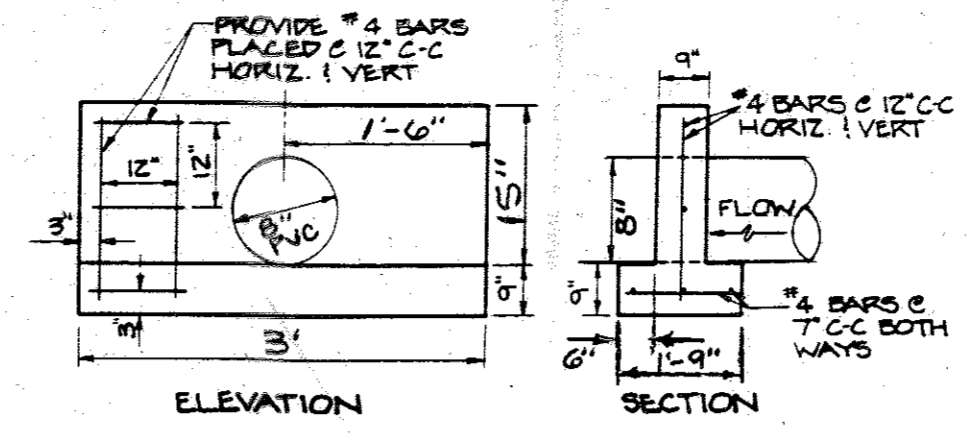
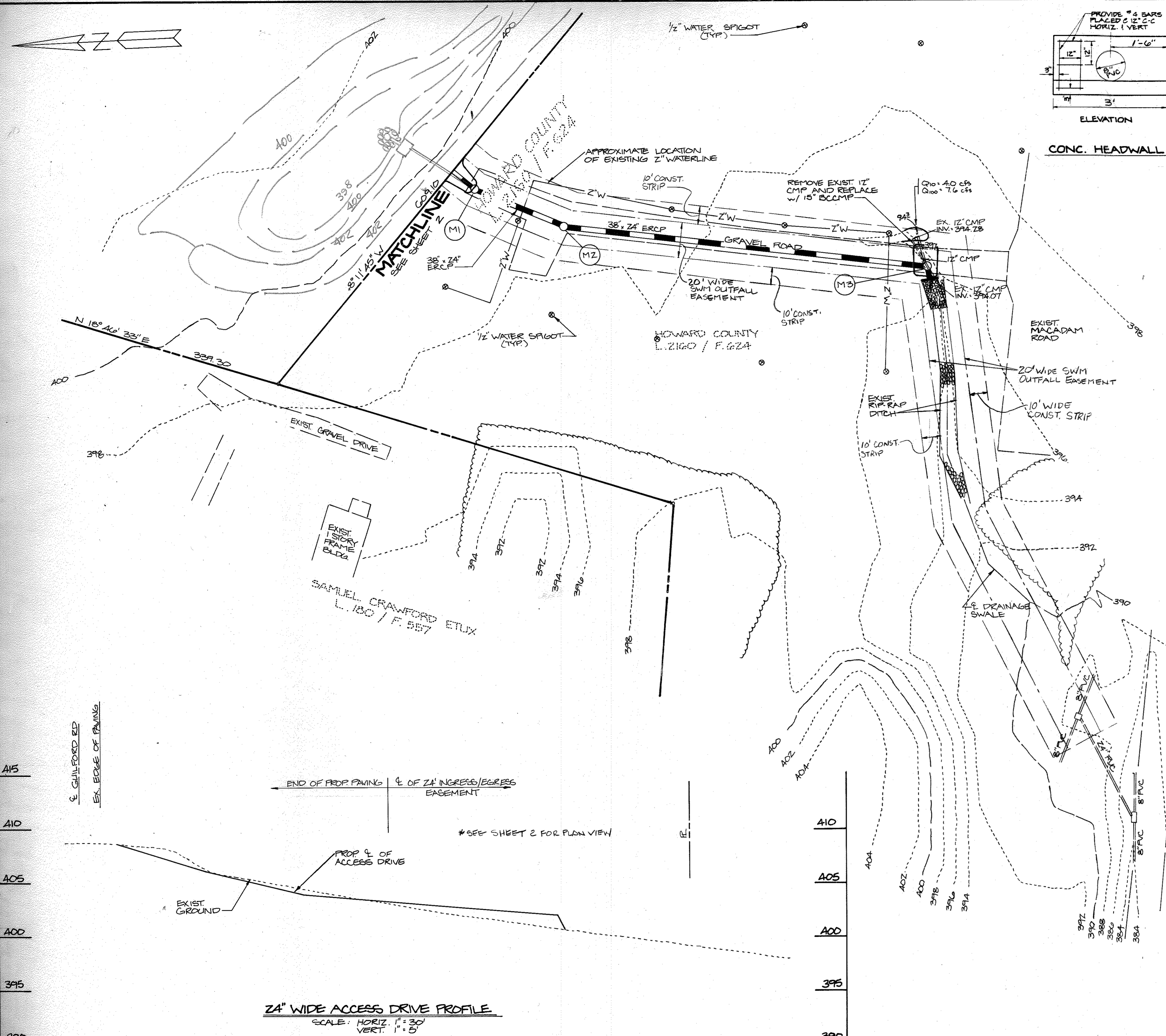
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 PHONE: (301) 953-1821 (WASH.)
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DATE: JULY 1993 SCALE: 1"=30'

SHEET NO. 2 OF 12

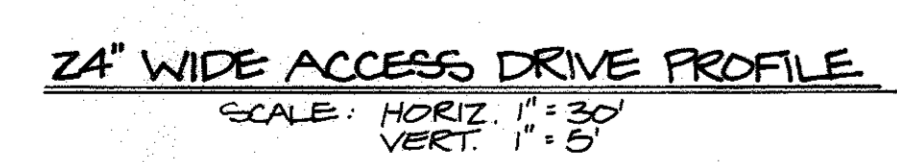
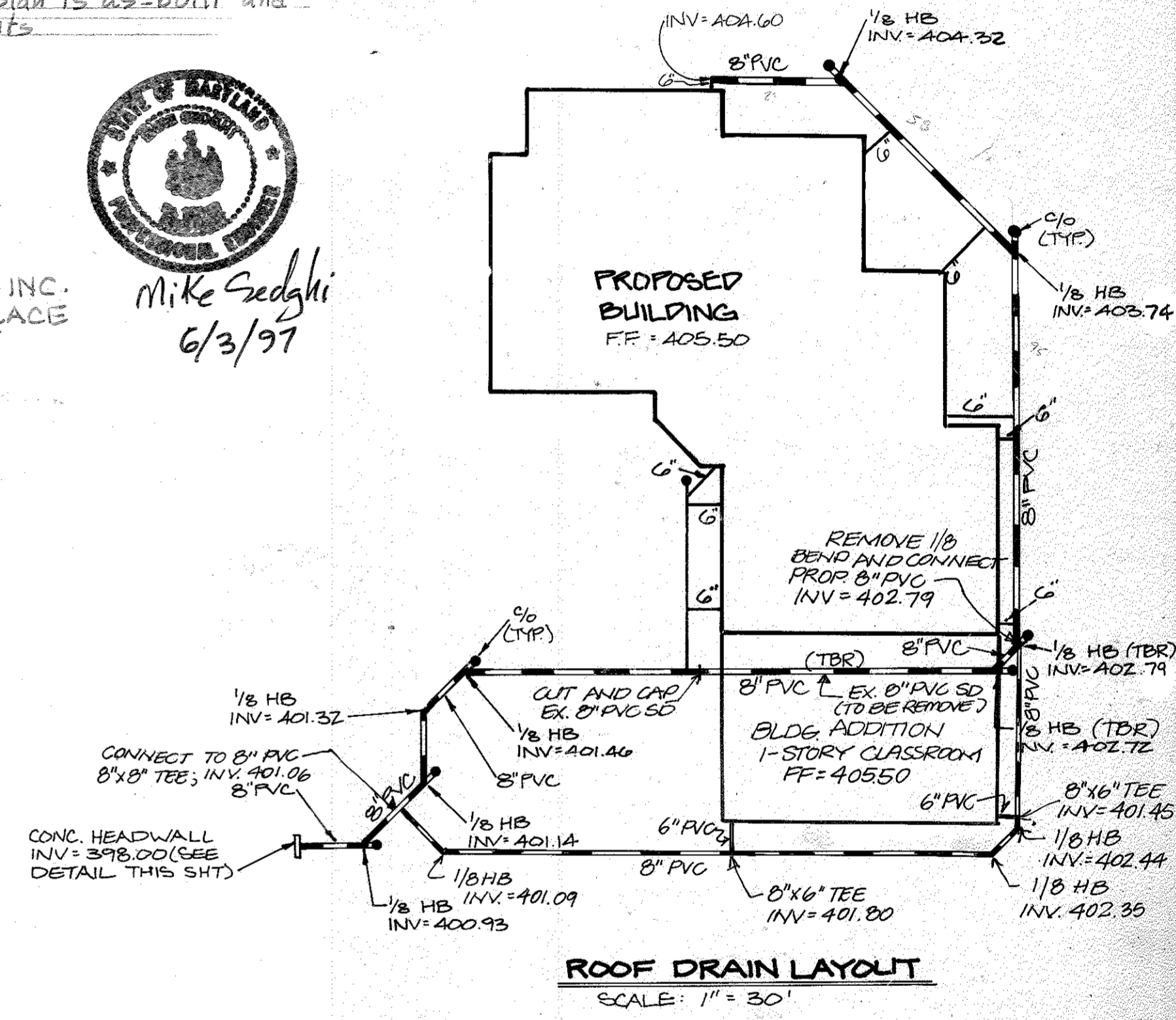
SDP-94-31



I hereby certify that the facility for stormwater management shown on this plan is as-built and meets the county requirements.

MIKE SEDGHI - PE-13816
 BEN DYER ASSOCIATES, INC.
 3100 PROFESSIONAL PLACE
 LANDOVER, MD. 20785
 (301) 459-9200

Mike Sedghi
 6/3/97



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.	CERTIFICATE BY DEVELOPER	ENGINEER CERTIFICATE
<i>James Keith</i> 5/18/94 DIRECTOR	<i>James J. ...</i> 5/16/94 DIRECTOR	<i>Patricia Englebas</i> 5/16/94 U.S. SOIL CONSERVATION SERVICE	I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.	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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
<i>Anna Stummang</i> 5/18/94 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	<i>David ...</i> 5/13/94 CHIEF BUREAU OF ENGINEERING	<i>David Isenberg</i> 1/21/93 HOWARD SOIL CONSERVATION DISTRICT	<i>David Isenberg</i> 1/21/93 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE	<i>Barry ...</i> 6/13/93 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE
DIS REVISED FOR RECLINE REVISIONS 9/18/94	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.		
MS REVISED FOR RECLINE 6/3/93	<i>David Isenberg</i> 5/16/94 HOWARD COUNTY HEALTH DEPARTMENT			
RN 6 ADD PROPOSED CLASSROOM ADDITION TO THE EX BUILDING 11/22/16				
BY NO REVISION DATE	COUNTY HEALTH OFFICER DATE			

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.	CERTIFICATE BY DEVELOPER	ENGINEER CERTIFICATE
<i>James Keith</i> 5/18/94 DIRECTOR	<i>James J. ...</i> 5/16/94 DIRECTOR	<i>Patricia Englebas</i> 5/16/94 U.S. SOIL CONSERVATION SERVICE	I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.	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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
<i>Anna Stummang</i> 5/18/94 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	<i>David ...</i> 5/13/94 CHIEF BUREAU OF ENGINEERING	<i>David Isenberg</i> 1/21/93 HOWARD SOIL CONSERVATION DISTRICT	<i>David Isenberg</i> 1/21/93 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE	<i>Barry ...</i> 6/13/93 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE
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RN 6 ADD PROPOSED CLASSROOM ADDITION TO THE EX BUILDING 11/22/16				
BY NO REVISION DATE	COUNTY HEALTH OFFICER DATE			

ADDRESS CHART	
BLDG	ADDRESS
	8070 HARRIET TUBMAN LANE

OWNER/DEVELOPER:
 BETH SHALOM CONGREGATION
 95 DAVID ISENBERG
 4221 BAILEYSWING COURT
 ELLICOTT CITY, MD 21042
 (410) 461-5920

PLAT NO OR L/F	BLOCK NO	ZONE	TAX/ZONE MAP/ELEC DIST	CENSUS TR
L2548 F.388	24	R20	35	5th 6050
WATER CODE			SEWER CODE	
E 27			5322500	

TEMPLE BETH SHALOM

SWM OUTFALL PLAN

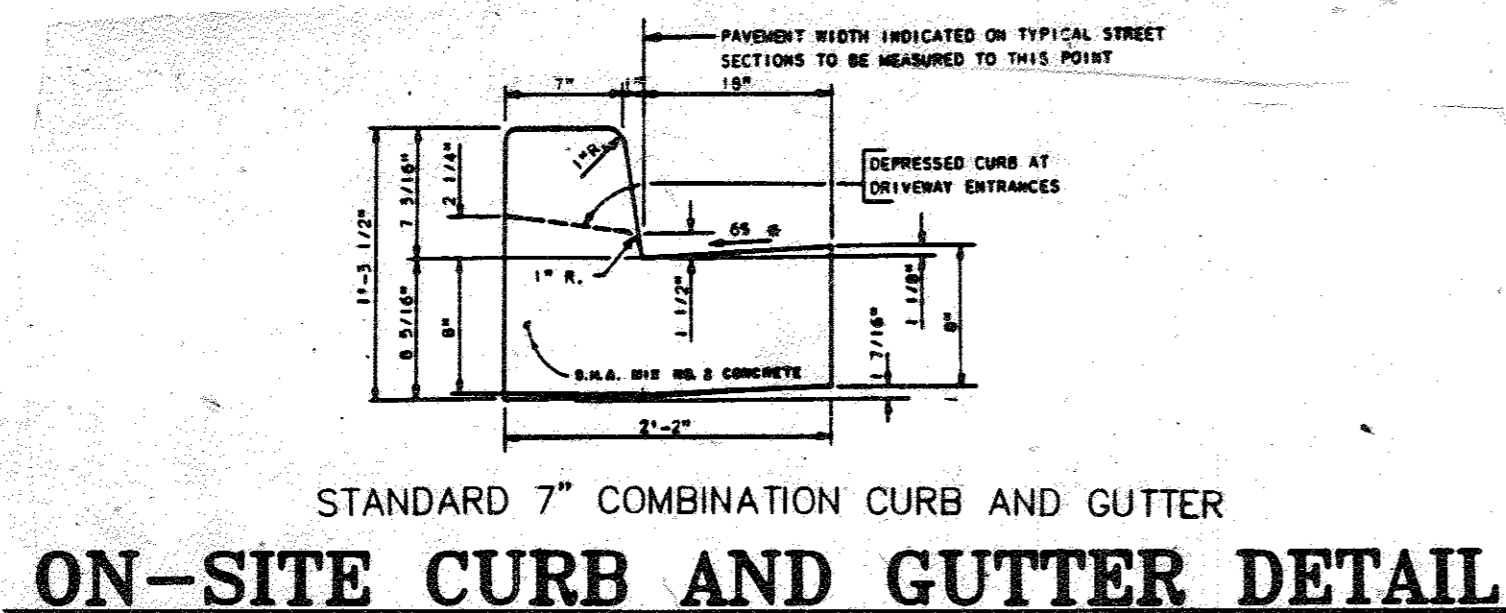
SDP-94-31

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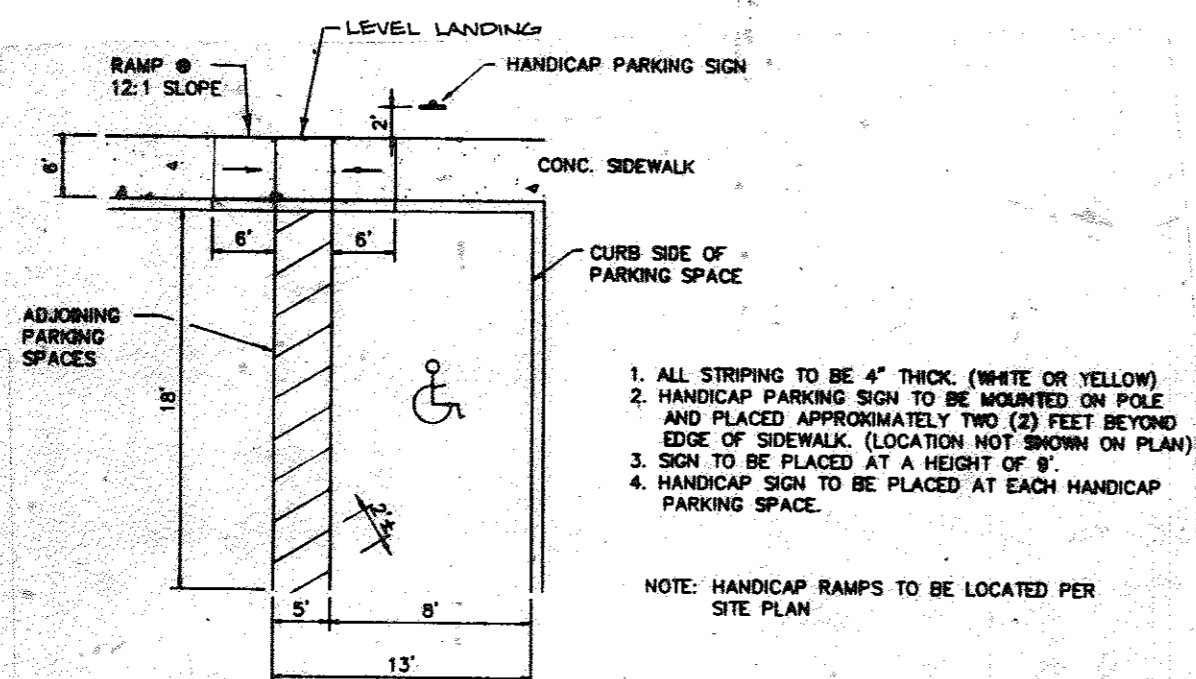
DATE: JULY 1993 SCALE: 1" = 30'

SHEET NO. 3 OF 12

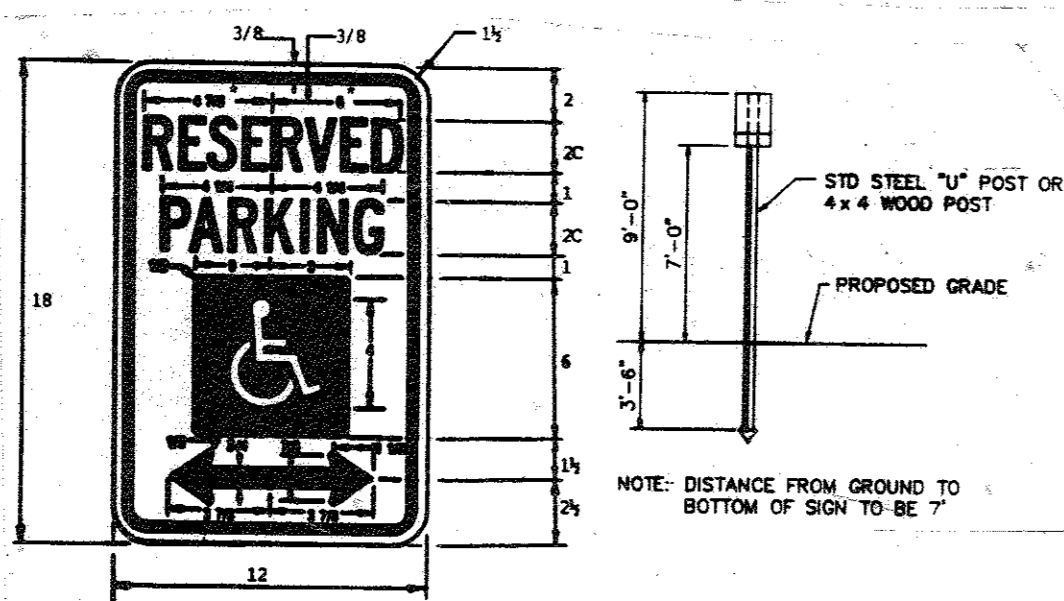
SDP-94-31



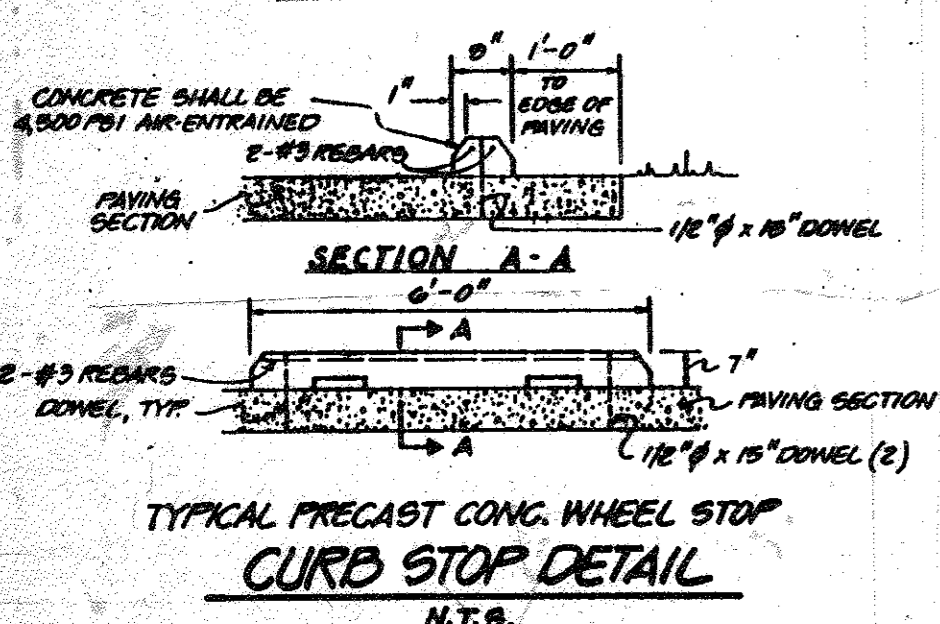
STANDARD 7" COMBINATION CURB AND GUTTER
ON-SITE CURB AND GUTTER DETAIL
NO SCALE



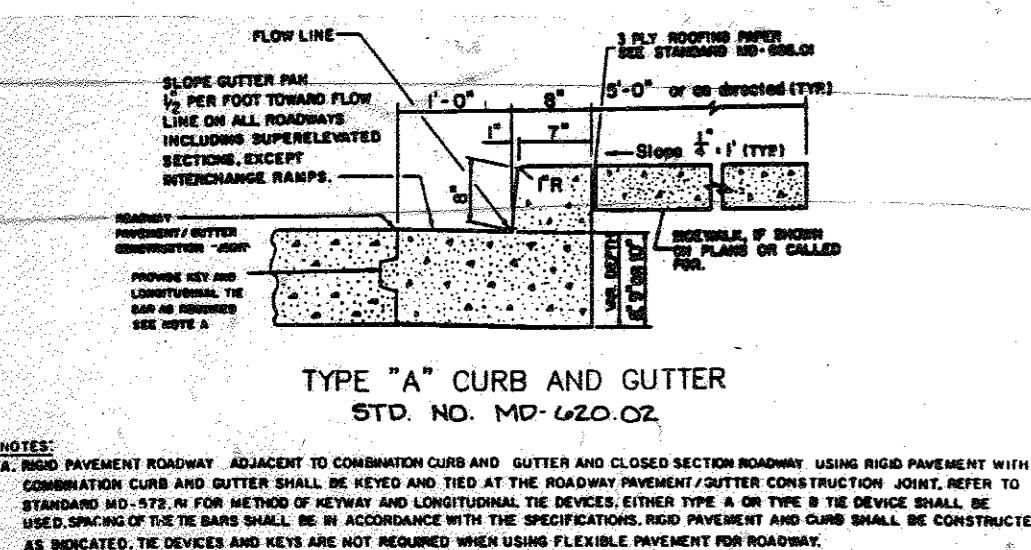
HANDICAP PARKING SPACE
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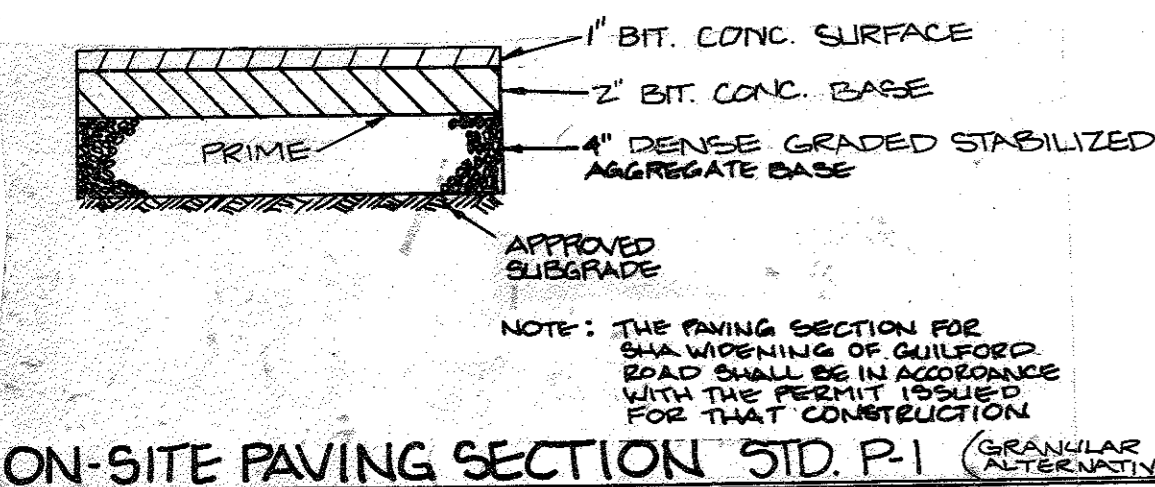
HANDICAP SIGN DETAIL
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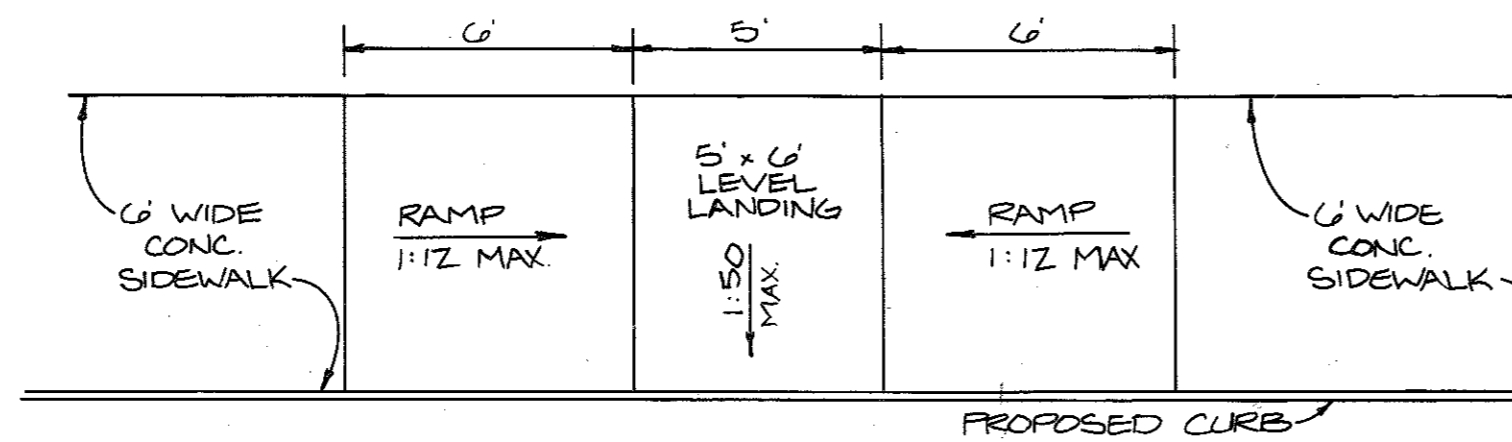
TYPICAL PRECAST CONG. WHEEL STOP
CURB STOP DETAIL
N.T.S.



SHA CURB AND GUTTER
NO SCALE



ON-SITE PAVING SECTION STD. P.1
NO SCALE



HANDICAPPED RAMP DETAIL
N.T.S.

LIST OF ABBREVIATIONS

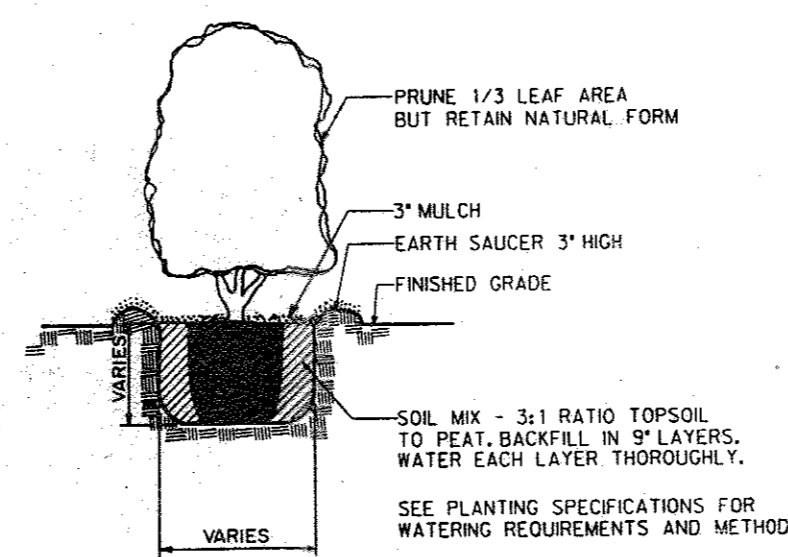
- AMER. - AMERICAN
- BB - BALLED IN BURLAP
- B.R. - BARE ROOT
- CAL. - CALIPER
- CG - CONTAINER, OR POT
- HT. - HEIGHT
- O.C. - ON CENTER
- ' - FOOT
- " - INCH
- SP - SPREAD

GENERAL NOTES

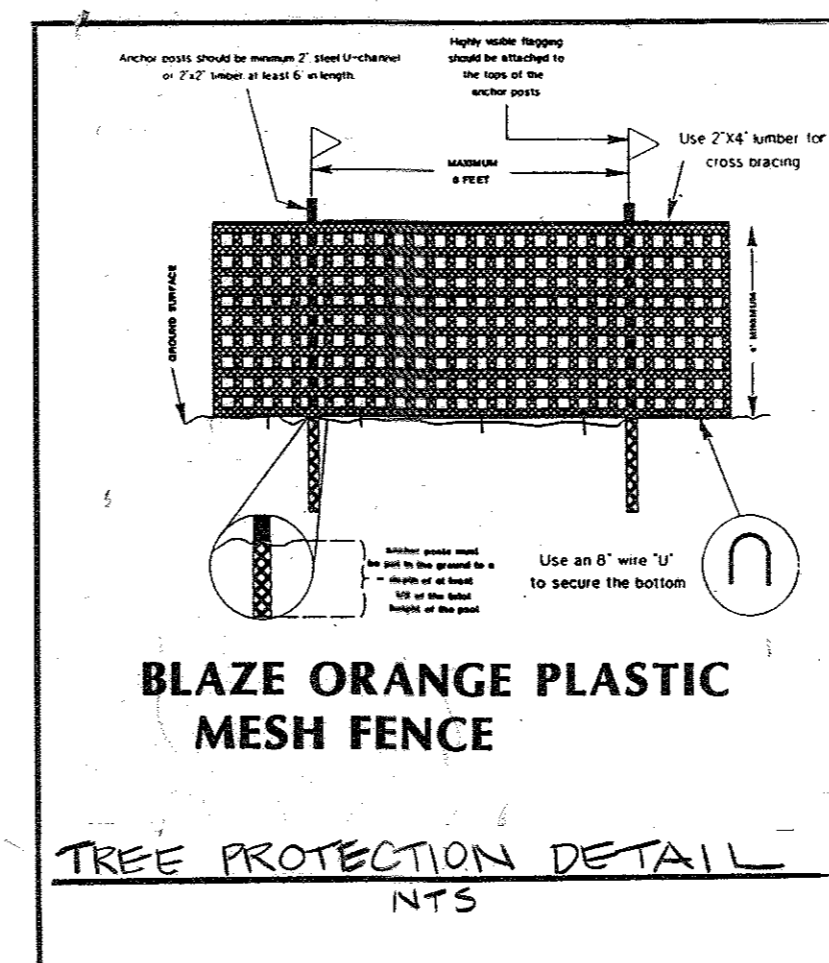
1. EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL VERIFY FIELD LOCATIONS AND ELEVATIONS TO HIS OWN SATISFACTION PRIOR TO CONSTRUCTION. ANY UTILITY (WHETHER SHOWN OR NOT) DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY. ANY EXISTING HAZARDOUS WASTE BODIES, ETC., TO BE PAIRED OR REMOVED, ARE TO BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPAIRING ANY EXISTING FENCES, DRIVEWAYS, ETC., DAMAGED OR REMOVED BY HIM DURING CONSTRUCTION. ALL OFF-SITE DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
2. CONTRACTOR SHALL TEST FIT IN THE AREA OF EXISTING UTILITIES TO VERIFY SIZE, LOCATION AND TYPE PRIOR TO PERFORMING ANY WORK.
3. CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777) 48 HOURS PRIOR TO START OF CONSTRUCTION.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY FOR ROAD FORMS AND SPECIFICATIONS IF APPLICABLE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE STORM DRAIN SYSTEM DURING CONSTRUCTION AND SHALL CLEAN THE SYSTEM THOROUGHLY PRIOR TO FINAL ACCEPTANCE.
6. KCI TECHNOLOGIES, INC. IS NOT RESPONSIBLE FOR THE CONTRACTOR'S INSTALLATION OF NEW, EXISTING, EQUIPMENT OR SAFETY MEASURES IN PERFORMANCE OF ANY WORK FOR THIS CONTRACTOR. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PERFORMING THE WORK CORRECTLY AND IN ACCORDANCE WITH ALL CODE REQUIREMENTS.
7. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THE WORK.
8. CONTRACTOR MUST FURNISH THE STATE HIGHWAY ADMINISTRATION WITH A TRAFFIC MAINTENANCE PLAN.
9. ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE ESTABLISHED IN ACCORDANCE WITH THE PLANS APPROVED BY HOWARD COUNTY CONSERVATION DISTRICT.
10. ANY DAMAGE TO PUBLIC RIGHT-OF-WAY AND/OR ADJACENT PROPERTIES SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL MAINTAIN AT LEAST A 2' LEVEL BENCH BEHIND ALL CURB AND GUTTER IN FILL AREAS.
12. ALL SLOPES SHALL BE 3:1 OR FLATTER.
13. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT (410) 311-1810 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
14. FOR DETAILS OF RAMP AND SIGN FOR THE HANDICAPPED, SEE THE HANDBOOK BUILDING CODE FOR THE HANDICAPPED AND THE AED AND AS SHOWN HEREON.
15. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4" OF COVER OVER ALL PROPOSED WATER LINES.
16. ALL RIP-RAP SHALL BE PLACED ON FILTER CLOTH.
17. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVING, CURB AND GUTTER, ETC., THAT MAY INTERFERE WITH PROPOSED CONSTRUCTION.
18. UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH CONNECTION.
19. ALL WATER MAIN TEES, BENDS, CAPS, ETC., SHALL BE BOTTRESSED IN ACCORDANCE WITH HOWARD COUNTY DESIGN REQUIREMENTS.
20. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
MISS UTILITY 1-800-257-7777
CES TELEPHONE COMPANY 410-393-1974
ANTELE CABLE LOCATION DIVISION 410-393-3551
BALTIMORE GAS & ELECTRIC COMPANY 410-686-5121
STATE HIGHWAY ADMINISTRATION 410-311-5533
21. ALL DISTURBED LAND ON OR OFF-SITE WHICH IS NOT BUILT UPON OR SURFACED SHALL BE PROMPTLY RESTORED TO ORIGINAL OR BETTER CONDITION IN ACCORDANCE WITH THE HOWARD COUNTY CONSERVATION DISTRICT REQUIREMENTS.
22. WATER AND SEWER SERVICE CONNECTIONS TO BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
23. SITE LIGHTING TO BE DIRECTED INWARD AND DOWNWARD, AWAY FROM ALL RESIDENTIAL USES.
24. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNALING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
25. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
26. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY KCI TECHNOLOGIES, INC. DATED JANUARY 1991. CONTOUR INTERVAL: 1 FEET.
27. HORIZONTAL AND VERTICAL CONTROL SHOWN HEREON IS BASED ON THE FOLLOWING HOWARD COUNTY CONTROL STATIONS:
STA. 148980: ELEV. 418.42 N 484416.124 E 823253.011
STA. 1440201: ELEV. 432.81 N 493284.286 E 814271.223
1440409: ELEV. 374.42 N 493284.286 E 814271.223
28. PUBLIC WATER AND SEWER ARE PROPOSED FOR THIS PROJECT. CONTRACT NO. 24-2463.
29. NO FLOODPLAIN STUDY IS REQUIRED FOR THIS PROJECT.
30. STORMWATER MANAGEMENT FOR THIS PROJECT INCLUDES 2, 10 AND 100-YEAR QUANTITIES DIVERSITY AND INFILTRATION OF 1/2 INCH RUNOFF FROM IMPERVIOUS AREA.
31. THERE ARE NO WETLANDS LOCATED ON THIS SITE.
32. STORMWATER MANAGEMENT FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED.
33. SITE DISTURBANCE ANALYSIS FOR ENTRANCES ON GUILFORD ROAD APPROVED JANUARY 1, 1994.

PLANT SCHEDULE

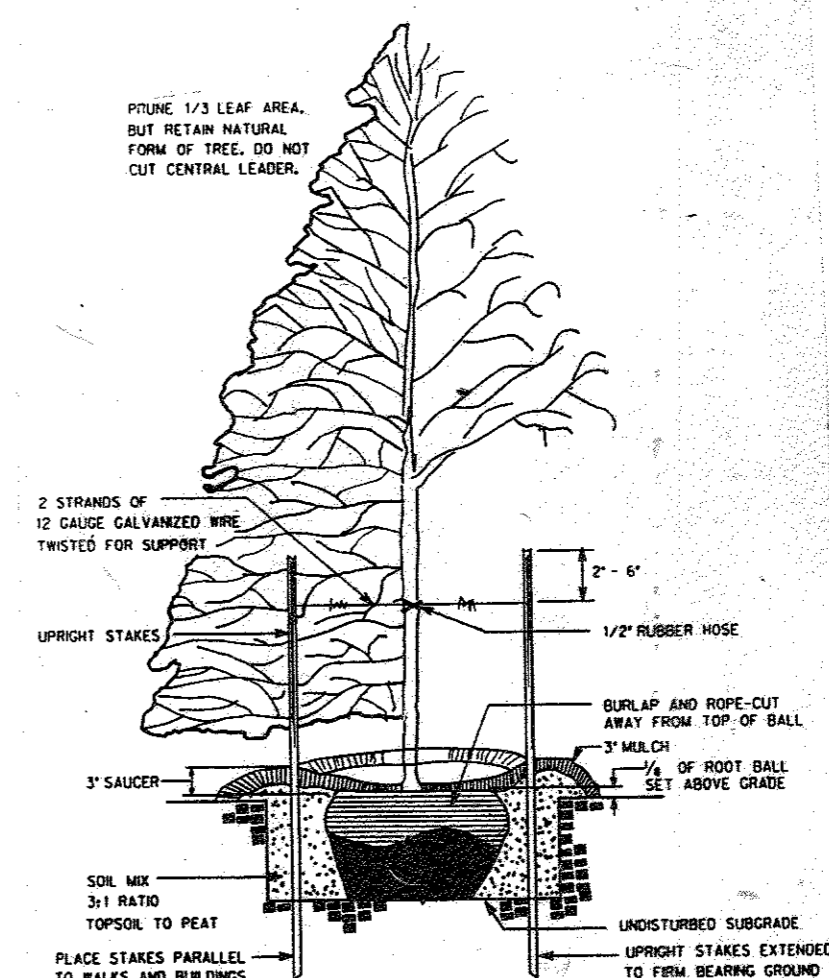
KEY	QUANTITY	BOTANICAL/COMMON NAME	SIZE	ROOT
7	7	Prunus serrulata 'Kwanzan' / Kwanzan Cherry	1 1/2" - 2" cal.	BB
19	19	Acer rubrum 'Red Sunset' / Red Sunset Maple	2" - 2 1/2" cal.	BB
20	20	Tilia cordata 'Greenspire' / Littleleaf Linden	2 1/2" - 3" cal.	BB
19	19	Cupressocyparis leylandii / Leyland Cypress	6' - 8' ht.	CG
16	16	Picea omorika/Serbian Spruce	6' - 8' ht.	BB
80	80	Abelia x grandiflora/Glossy Abelia	2 1/2' - 3' ht.	CG
81	81	Fernestium alopecuroides/ Fountain Grass	2 gal.	CG
33	33	Calamagrostis acutiflora 'Stricta' / Reed Grass	2 gal.	CG
		Existing Trees to Remain		



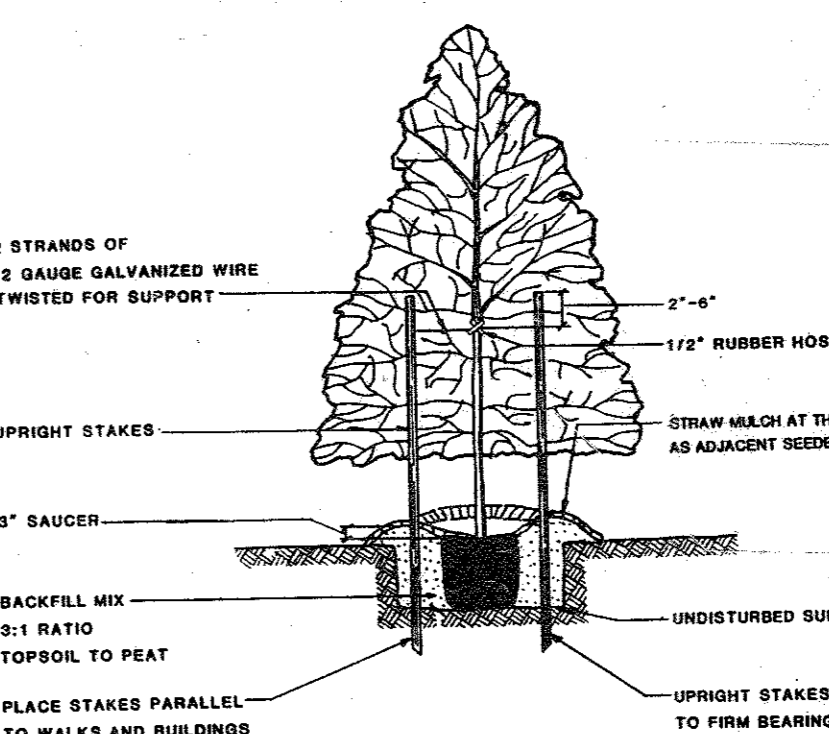
SHRUB PLANTING DETAIL
CONTAINER GROWN
NOT TO SCALE



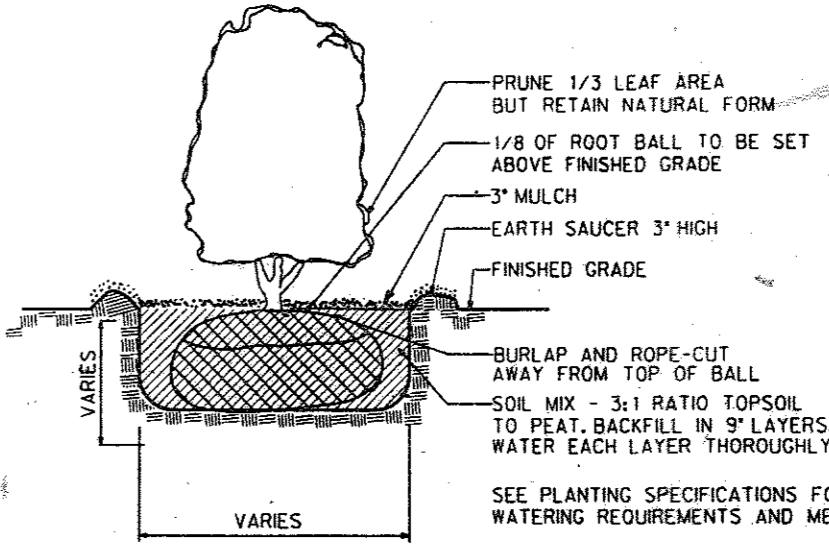
BLAZE ORANGE PLASTIC MESH FENCE
TREE PROTECTION DETAIL
N.T.S.



DECIDUOUS AND EVERGREEN TREE PLANTING DETAIL
B&B
NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL
CONTAINER GROWN
NOT TO SCALE



SHRUB PLANTING DETAIL
B&B
NOT TO SCALE

PLANTING SPECIFICATIONS

- DESCRIPTION
- The Contractor shall furnish and install all plant materials, labor and other materials necessary to complete the work as shown on the plans and details.
- MATERIALS AND METHODS
- A. The materials and methods shall comply with all the requirements of the current edition of the 'Landscape Specification Guidelines' as prepared by the Landscape Contractors Association (LCA) and as modified herein.
 - B. Substitutions
 1. If a plant is found not to be suitable or available, the Landscape Contractor is to notify the Owner's Representative before bidding.
 2. The Owner or Owner's Representative is then required to select a reasonable alternate, or to inform all Landscape Contractors of the source of availability of the original plant.
 - C. Utilities

The Landscape Contractor must verify the correct location of any existing utilities which are underground, prior to any excavation or plant installation. The Landscape Contractor shall call Miss Utility (1-800-257-7777) a minimum of 48 hours prior to construction.
 - D. Plant Material Sources - The Landscape Contractor shall, at least ten (10) days before beginning planting operations, submit a list of planting material sources giving the nursery address and phone number for each plant material required on the job.
 - E. Total number of plants shall be as shown on the landscape plan. If this total differs from the plant schedule, the Landscape Contractor is to notify the Owner's Representative before bidding.
 - F. Time of Planting - Planting schedule shall be in accordance with the 'Landscape Specification Guidelines' as prepared by LCA. Installation of pines and oaks shall be during spring planting season only. No fall planting.
 - G. Mulch - Mulch shall be shredded hardwood bark. The Landscape Contractor shall provide a one (1) lb. sample to the Owner's Representative for his approval. Mulch shall be applied to a depth of three (3) inches within 24 hours of installation of plant materials.
 - H. Tree wrap shall not be utilized.
 - I. The Landscape Contractor shall prune plant material within two (2) days of installation in accordance with the details and as directed by the Owner's Representative.
 - J. All disturbed areas within the limit of contract which are not paved, sodded or otherwise planted shall be seeded. The following seed mixture and rate of application will be used:

100% Tall Fescue cultivars* - certified Apache, Arid, Bonanza, Hounddog, Jaguar, Mustang, Olympic II, Rebel, Rebel II, Titan or other approved equal patented cultivar.

* One or more of the above listed tall fescue cultivars must be chosen. If more than one is chosen, each cultivar should account for a minimum of 10% of the mixture by weight. This mixture shall be applied at the rate of five to eight (5-8) pounds per 1,000 s.f. sown in two (2) directions at right angles.
 - K. Clean-Up and Restoration
 1. During the course of planting, excess and waste materials shall be continuously and promptly removed, lawn areas kept clear, and all reasonable precautions taken to avoid damage of existing lawns, paving, etc.
 2. The Landscape Contractor shall restore to their original condition all pavement, sodded and planted areas, structures and substructures, not specifically provided for in the Contract, which are disturbed by the Landscape Contractor during planting operations. Such restoration shall be in a manner satisfactory to the Owner's Representative and at no additional cost to the Owner.
 - L. Water - Water for planting and maintenance purposes, will be supplied by the Owner. The Landscape Contractor shall provide all equipment necessary to transport the water from source to required locations. The Landscape Contractor will be required to water all plants promptly, adequately and as often as necessary to insure proper plant growth and to keep the soil moist and in a condition satisfactory to the Owner's Representative. The Landscape Contractor will be responsible for watering all plants from the time of planting until the final inspection.
 - M. Final Inspection - The Owner's Representative shall make a final inspection and notify the Landscape Contractor in writing, when all work is satisfactorily completed. If work is not satisfactorily completed, the Owner's Representative will notify the Landscape Contractor, in writing, as to the deficiencies in the work and the necessary corrective measures. A reasonable amount of time will be given and another final inspection will be scheduled by the Owner's Representative.
 - N. Owner Maintenance - After the planting has been approved by the Owner's Representative and the Owner, the maintenance of watering and weeding of such plants and planted areas shall be provided by the Owner. Since the plants are to be guaranteed by the Landscape Contractor for one year from final inspection, he should check the maintenance conducted by the Owner. The Landscape Contractor shall also make monthly site inspections after installation of trees during the guarantee period and shall right any trees that are not vertically true. If the Landscape Contractor is not satisfied with the maintenance of the plants, a written report, in triplicate, stating appropriate changes shall be given immediately to the Owner's Representative; two copies will be forwarded to the Owner.
 - O. Payment - Terms of payment shall be as specified in the bid package.

BY	NO.	REVISION	DATE
RHV	6	ADD PROPOSED CLASSROOM ADDITION TO EXISTING BUILDING	11/22/10

APPROVED:	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>Quinn Drumman</i> DIRECTOR	5/18/94
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>James G. Lewis</i> DIRECTOR	5/16/94
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>Paul D. Sepp</i> CHIEF BUREAU OF ENGINEERING	5/13/94
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>Paul D. Sepp</i> COUNTY HEALTH OFFICER	5/13/94

APPROVED:	DATE
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL. <i>Patricia Engle</i> U.S. SOIL CONSERVATION SERVICE	5/10/94
THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT. <i>David J. Sepp</i> HOWARD COUNTY CONSERVATION DISTRICT	5/10/94

CERTIFICATE BY DEVELOPER	DATE
I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY CONSERVATION DISTRICT. <i>David J. Sepp</i> SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)	9/21/93

ENGINEER CERTIFICATE	DATE
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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT. <i>Billy W. Smith</i> SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)	8/23/93

ADDRESS CHART
BLDG. ADDRESS 8070 HARRIET TUBMAN LANE

TEMPLE BETH SHALOM

LANDSCAPE AND SITE DETAILS
SDP-94-31

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
8308 PATUXENT RANGE ROAD
JESSUP, MARYLAND 20794-8800
PHONE: (301) 853-1621 (WASH.)
(410) 782-8088 (BALT.)

DATE: JULY 1993 SCALE: AS SHOWN
SHEET NO. 4 OF 12
SDP-94-31

PLAT NO OR L/F	BLOCK NO	ZONE	TAX/ZONE MAP/ELEC. DIST	CENSUS TR	PARCEL NO
L-2549 F-388	24	R-20	35	5th	6056

WATER CODE: E 29
SEWER CODE: 5322500

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for ponds MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, rocks shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill

Material: The fill material shall be taken from approved designated borrow areas. It shall be free of rocks, stumps, wood, rubbish, stones greater than 6" frozen or other objectionable materials. Fill material for the center of the embankment and out of trench shall conform to Unified Soil Classification SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be compacted over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment.

Compaction The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four

complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not so wet that water can be squeezed out.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain other acceptable material to be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

- Material - Reinforced concrete pipe shall have ball and socket joints with rubber gaskets and shall equal or exceed ASTM Designation C-361. An approved equivalent is AWWA Specification C-302.
- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. The bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.
- Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the rear

Backfilling area conform to "Structure Backfill"

5. Other details (anti-seep collars, valves, etc) shall be as shown on the drawings.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 608, Mix No. 3.

Rock Riprap

All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subangular in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

- Bulk specific gravity (saturated surface-dry base) not less than 2.5.
- Absorption not more than three percent.
- Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 619.12.

Care of Water during Construction

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall install, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundations, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory placement of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which require draining the water to pumps from which the water shall be pumped.

Stabilization

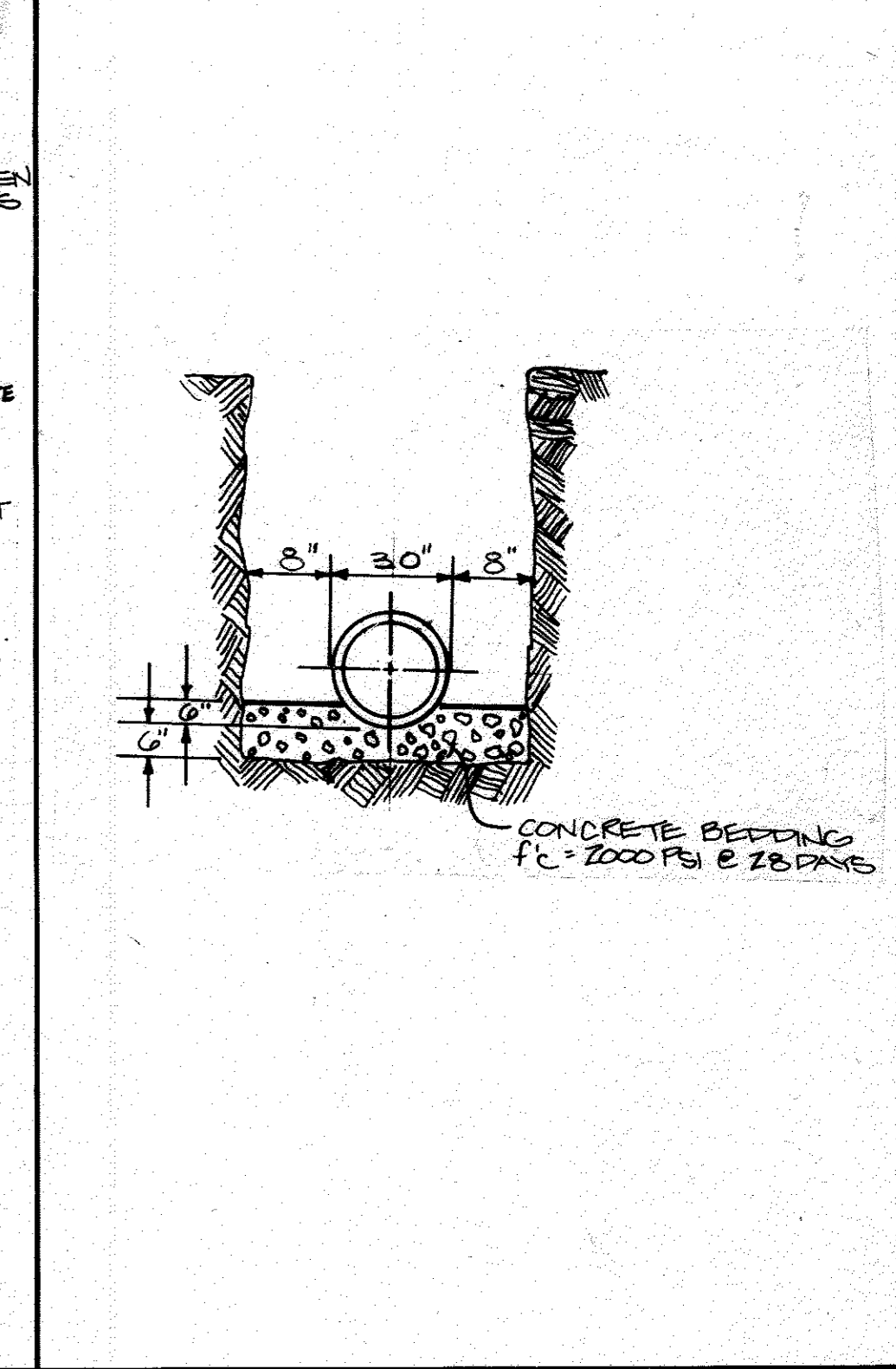
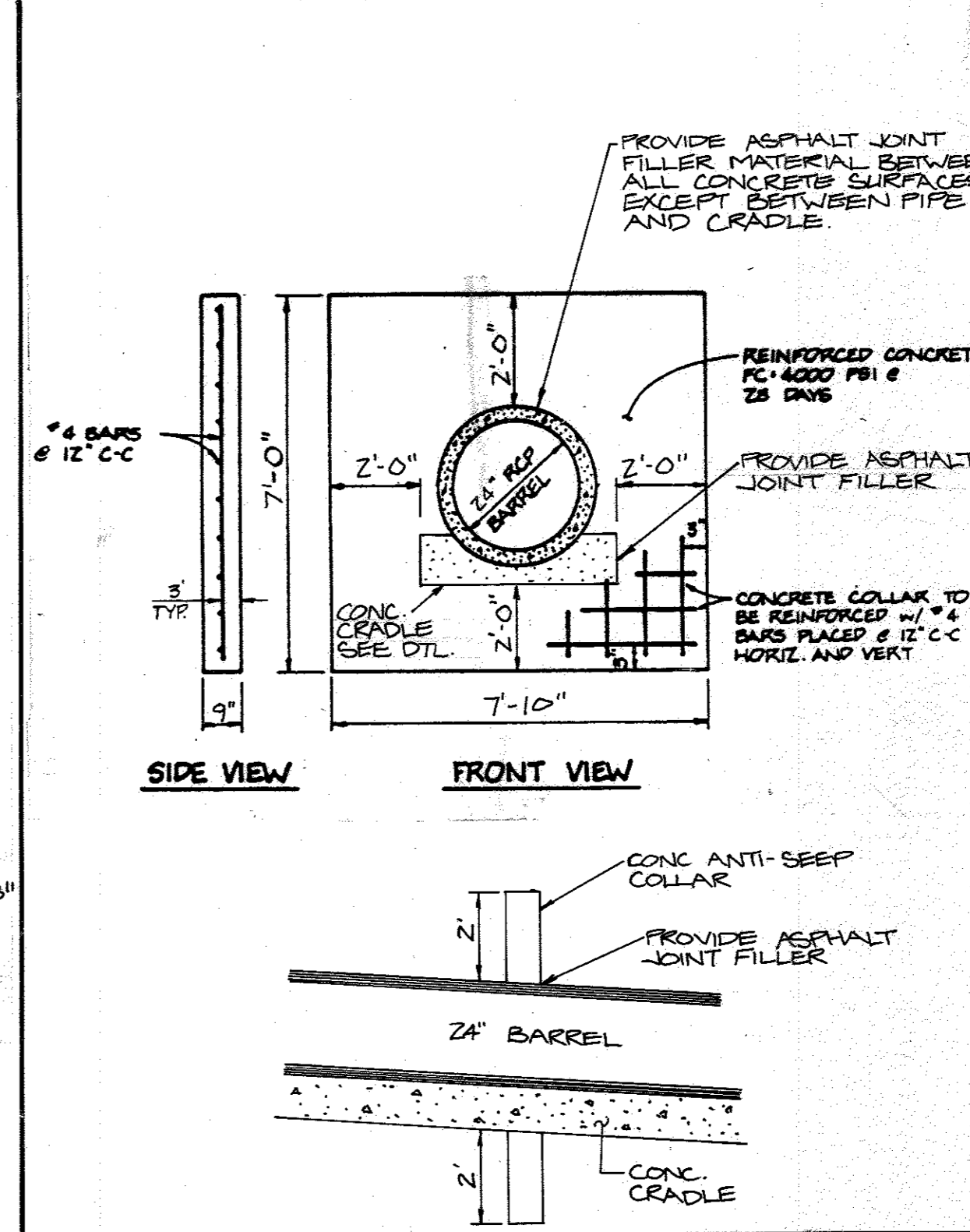
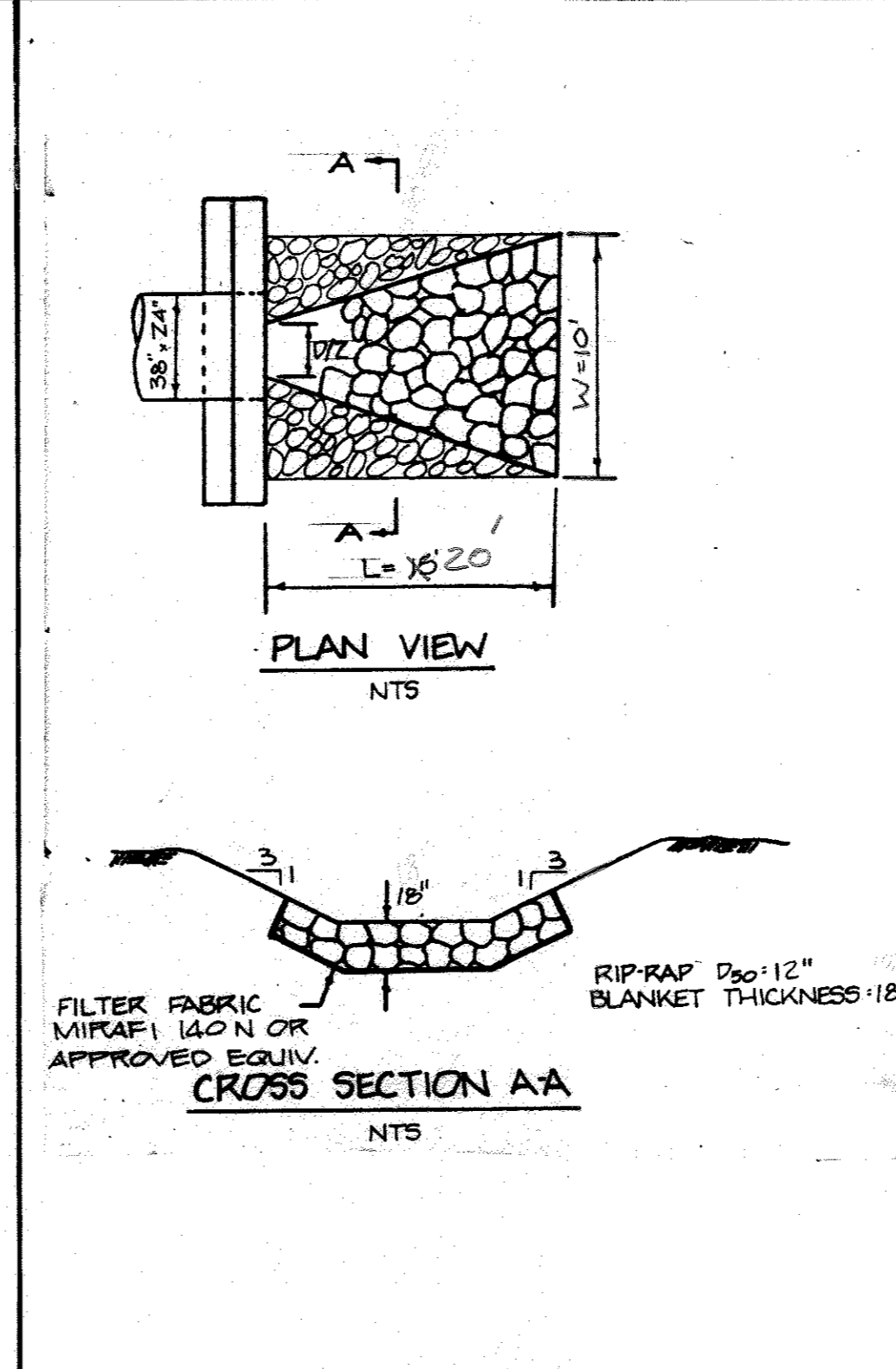
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spill and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Erosion and Sediment Control

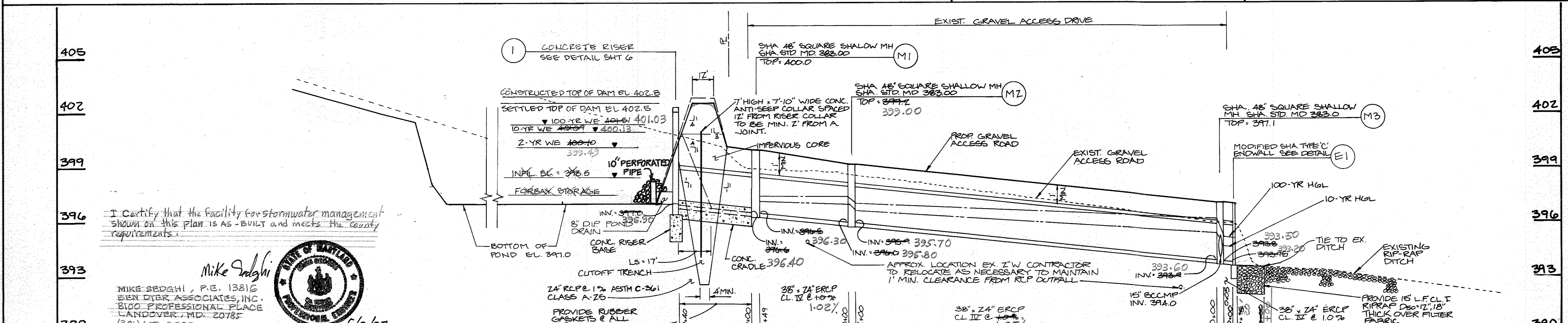
Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

Cut Off Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

The proposed facility is exempt from the requirements of MD 378 Standards due to the fact that the height of the embankment at maximum storage is less than 3' and the pond is determined to be a Class 'A' structure. For added safety considerations however, the MD 378 Standards are included on the plans and will be used for all construction activities that apply to this facility, i.e., anti-seep collars, embankment fill, riser and barrel construction.

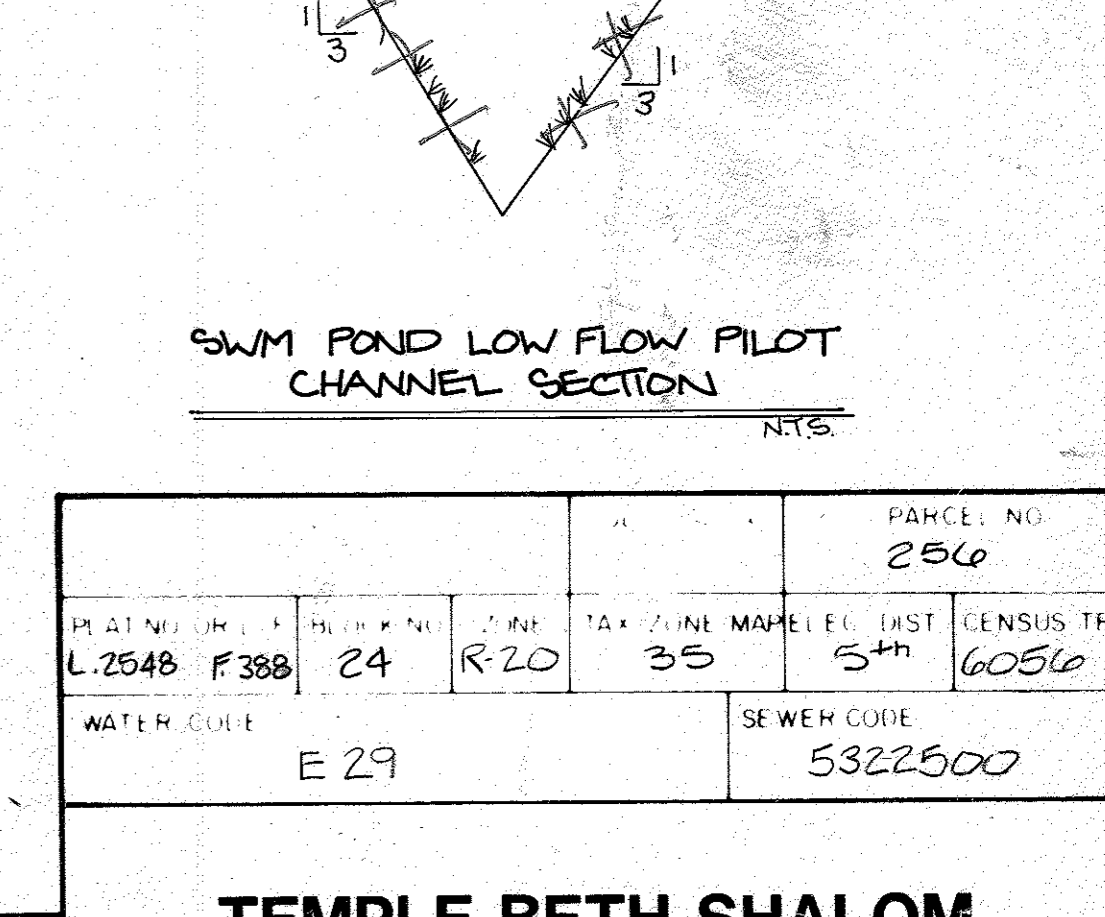
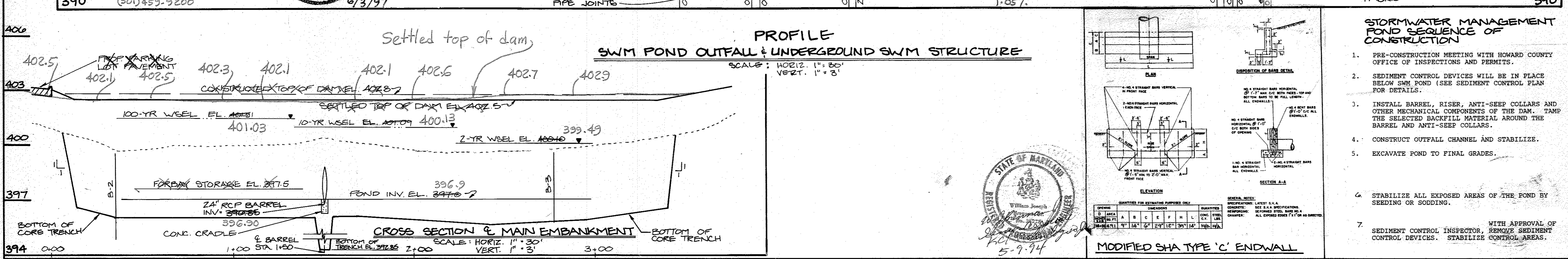


SCS POND SPECIFICATIONS (MD 378) RIPRAP OUTLET PROTECTION CONCRETE ANTI-SEEP COLLAR DETAIL LOW CRADLE BEDDING DETAIL



OPERATION AND MAINTENANCE

- The Stormwater Management (SWM) pond shall be constructed as shown on the plans and shall be perpetually maintained to insure that the facility and system continues to operate as designed and approved.
- The Owner shall make inspections of the facility a minimum of two (2) times per year and shall make such changes or modifications to the facility necessary to allow the pond to continue to perform in an adequate manner.
- Periodic inspection of the facility shall include:
 - gate valve and pond drain,
 - orifice and weir trash rack,
 - high stage weir trash rack,
 - riser and barrel components,
 - riprap outlet protection,
 - outfall channel,
 - pond slopes (vegetative stabilization),
 - visual inspection of sediment accumulation.
- As needed, maintenance of the facility shall include:
 - clean debris from all trash racks,
 - stabilize pond slopes with permanent seeding,
 - maintain outfall channel,
 - remove sediment from pond. All sediment removed shall be disposed of at a site with an approved sediment and erosion control plan.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Director: *[Signature]* 5/18/94

Chief, Division of Land Development and Research: *[Signature]* 5/18/94

PLS	REVISION FOR REDLINE REVISIONS	DATE
MS	Revised Per redlined	6-3-97
R/W	ADD PROPOSED CLASSROOM ADDITION TO THE EXISTING BUILDING	11/22/16
BY NO.	REVISION	DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director: *[Signature]* 5/16/94

Chief Bureau of Engineering: *[Signature]* 5/13/94

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

County Health Officer: *[Signature]* 5/13/94

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL

Director: *[Signature]* 5/16/94

U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

Director: *[Signature]* 5/16/94

HOWARD SOIL CONSERVATION DISTRICT

CERTIFICATE BY DEVELOPER

I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* 7/21/93

Signature of Developer: *[Signature]* 7/21/93

ENGINEER CERTIFICATE

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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* 8/23/93

Signature of Engineer: *[Signature]* 8/23/93

ADDRESS CHART

BLDG ADDRESS: 8070 HARRIET TUEMAN LANE

OWNER/DEVELOPER: BETH SHALOM CONGREGATION, 96 DAVID ISENBERG, 4221 EAGLESWING COURT, ELLICOTT CITY, MD 21042, (410) 461-5920

TEMPLE BETH SHALOM

STORMWATER MANAGEMENT DETAILS AND PROFILES

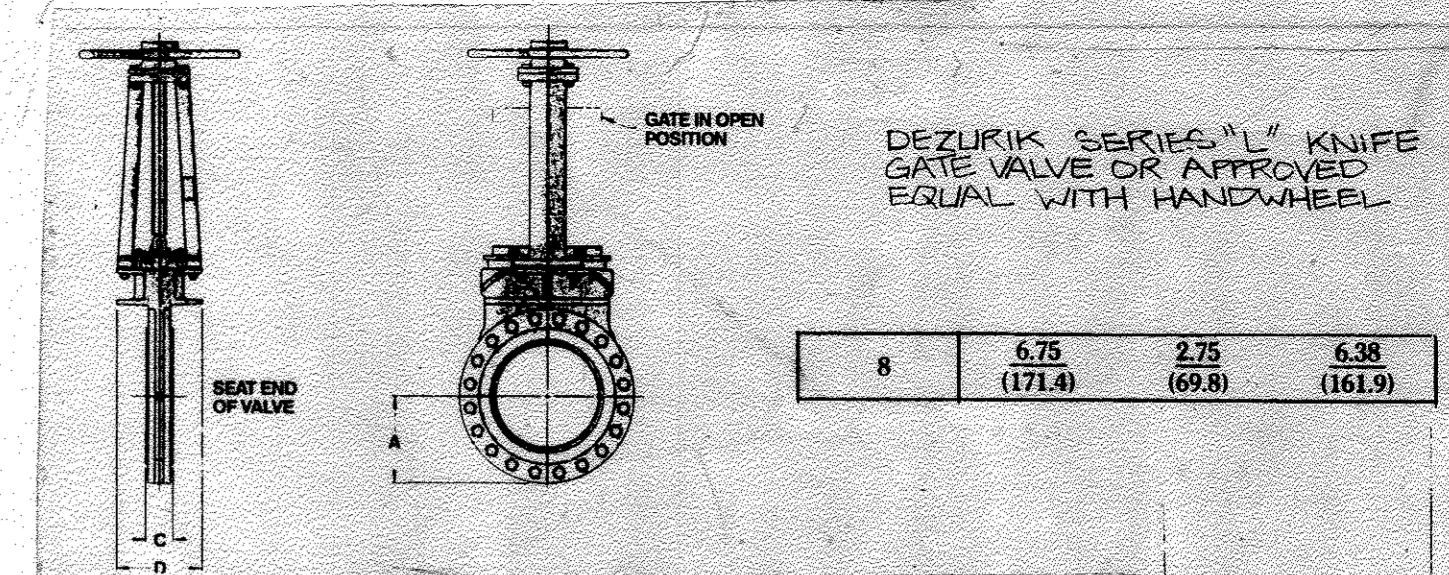
SDP-94-31

KCI TECHNOLOGIES, INC. ENGINEERS - PLANNERS - SURVEYORS

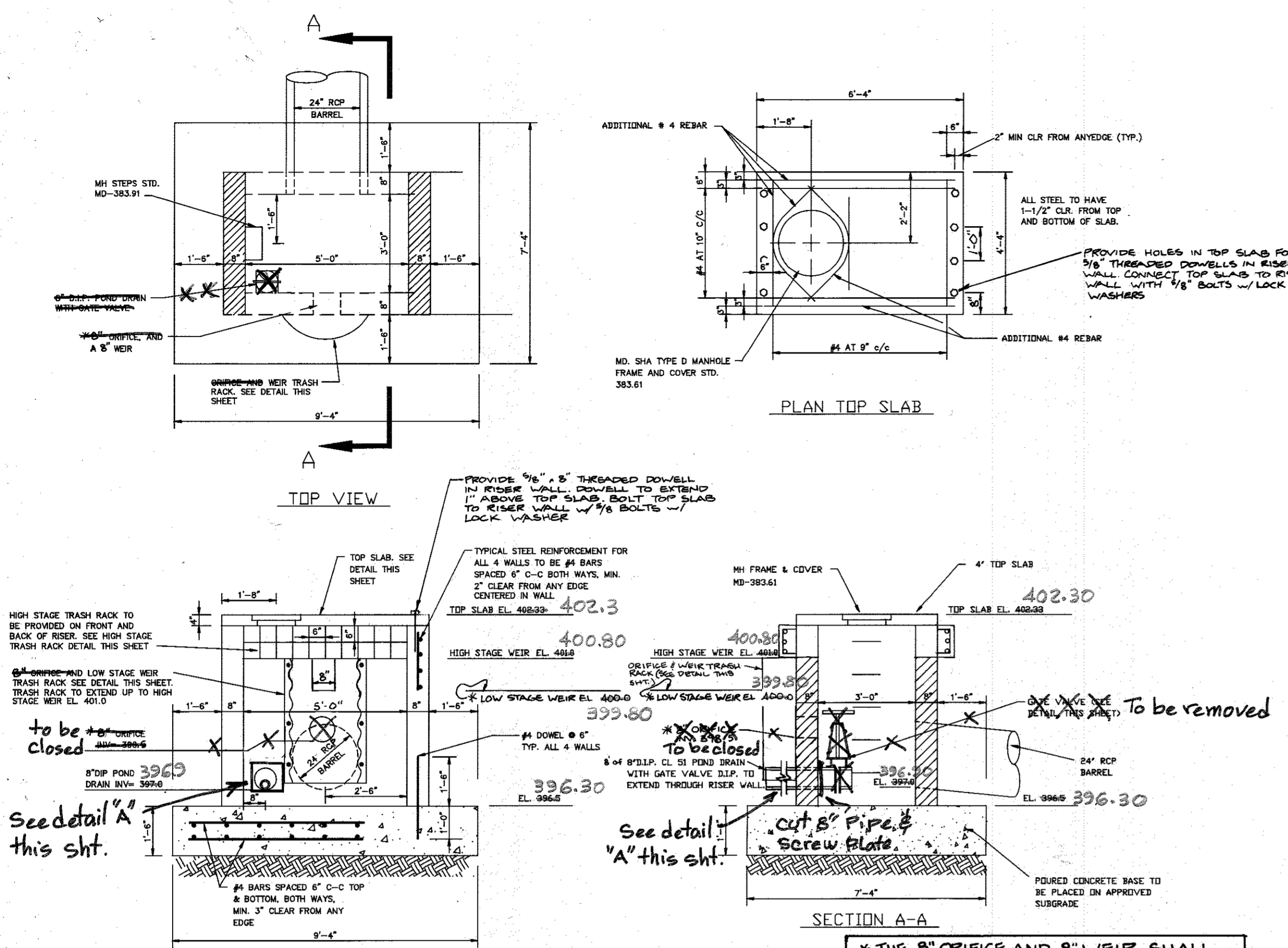
8306 PATUXENT RANGE ROAD, JESSUP, MARYLAND 20794-8609, PHONE (301) 853-1821 (WASH) (410) 792-8088 (BALT)

DATE: JULY 1993 SCALE: AS SHOWN

SHEET NO. 5 OF 12

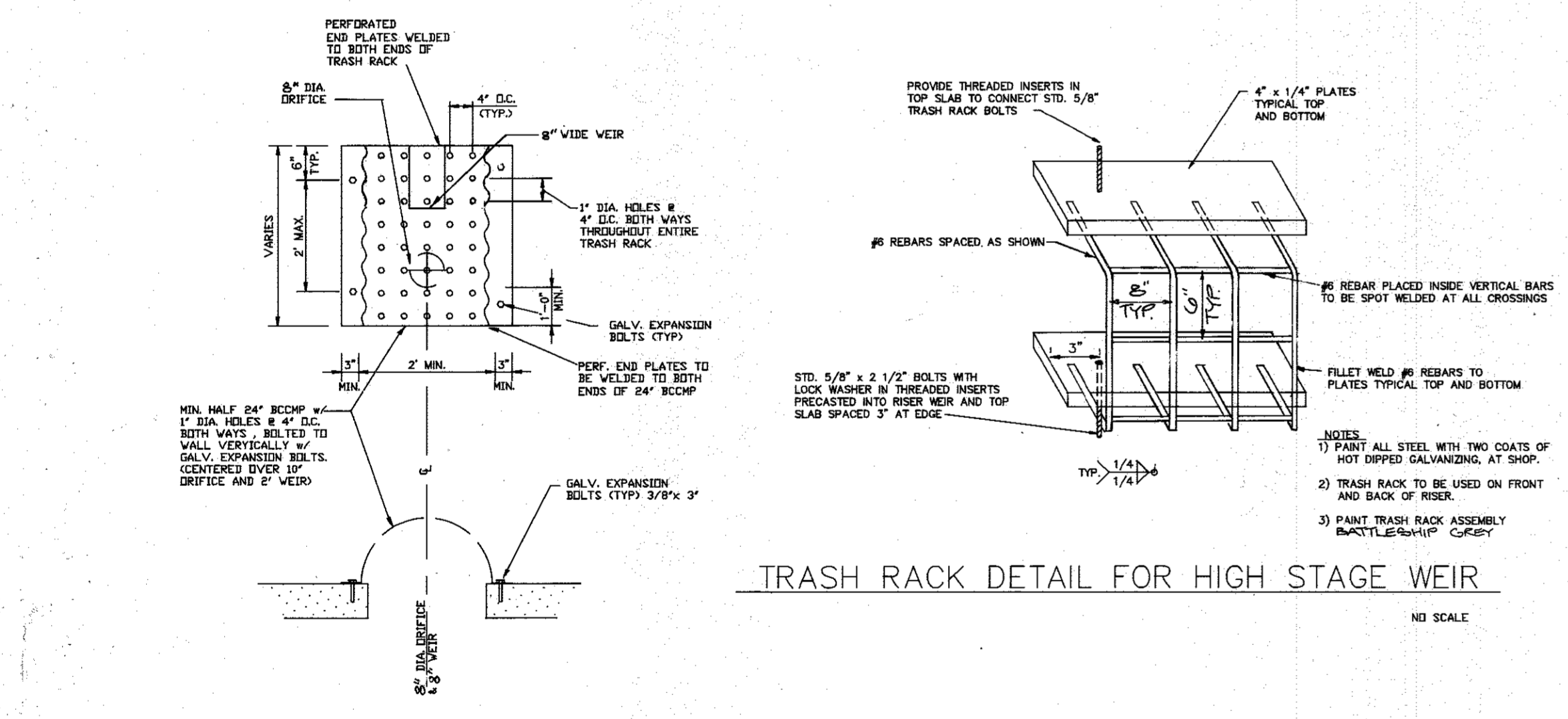


GATE VALVE DETAIL

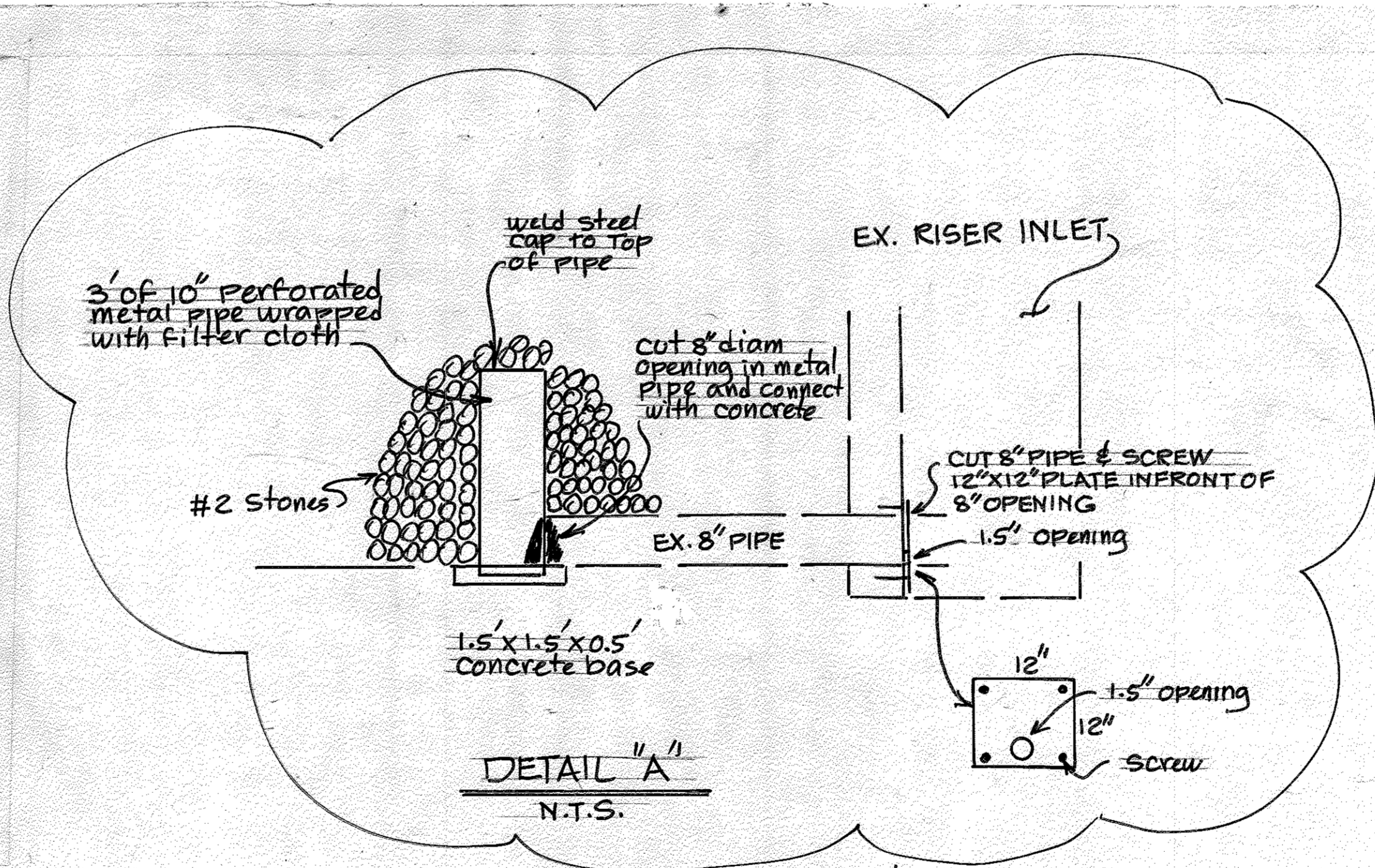


CONCRETE RISER DETAILS
SCALE: 1" = 3'

* THE 8" ORIFICE AND 8" WEIR SHALL BE PLUGGED DURING THE SEDIMENT CONTROL PHASE



TRASH RACK DETAIL FOR HIGH STAGE WEIR
NO SCALE



DETAIL "A"
N.T.S.

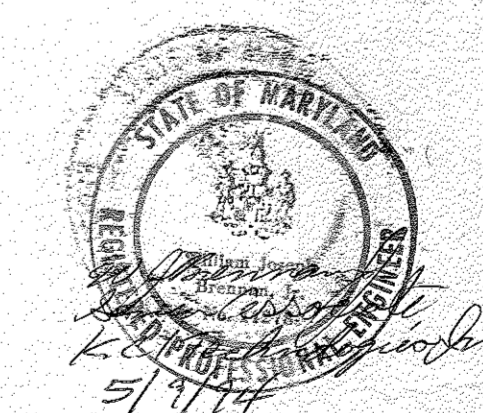
Revised 6/3/97
Mike Sedghi

I hereby certify that the facility for stormwater management shown on this plan is as-built and meets the county requirements.

MIKE SEDGHI - PE 13816
BEN DYER ASSOCIATES, INC.
8100 PROFESSIONAL PLACE
LANDOVER, MD 20785
(301) 459-9200



Mike Sedghi
6/3/97



PARCEL NO 256	PLAT NO OR L/F L2548 F388	BLOCK NO 24	ZONE R20	TAX/ZONE MAPELEC DIST 35	CENSUS TR 5th 6056
WATER CODE E 29	SEWER CODE 5322500				

TEMPLE BETH SHALOM

STORMWATER MANAGEMENT
DETAILS AND PROFILES

SDP - 94 - 31

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS



OWNER/DEVELOPER
BETH SHALOM CONGREGATION
96 DAVID ISENBERG
4221 EAGLESWING COURT
ELLICOTT CITY, MD 21042
(410) 461-5920

DATE: JULY 1993 SCALE: AS SHOWN

SHEET NO. 6 OF 12

SDP - 94 - 31

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Director: *Qina Summany* 5/10/94
DATE: 5/10/94

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH

PLS	REVISION	DATE
1	REVISED PER REVISIONS	9/8/94
MS 2	REVISED PER REVISIONS	6-3-97
R/N 6	ADD PROPOSED CLASSIFICATION TO EXISTING BUILDING	11/22/16

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director: *James J. Lewis* 5/16/94
DATE: 5/16/94

CHIEF BUREAU OF ENGINEERING

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

County Health Officer: *Paul D. Spang* 5/13/94
DATE: 5/13/94

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. SOIL CONSERVATION SERVICE
Signature: *Peter Engler* 5/10/94
DATE: 5/10/94

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT
Signature: *Keith S. ...* 5/10/94
DATE: 5/10/94

CERTIFICATE BY DEVELOPER

I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature of Developer: *David Isenberg* 9/21/93
DATE: 9/21/93

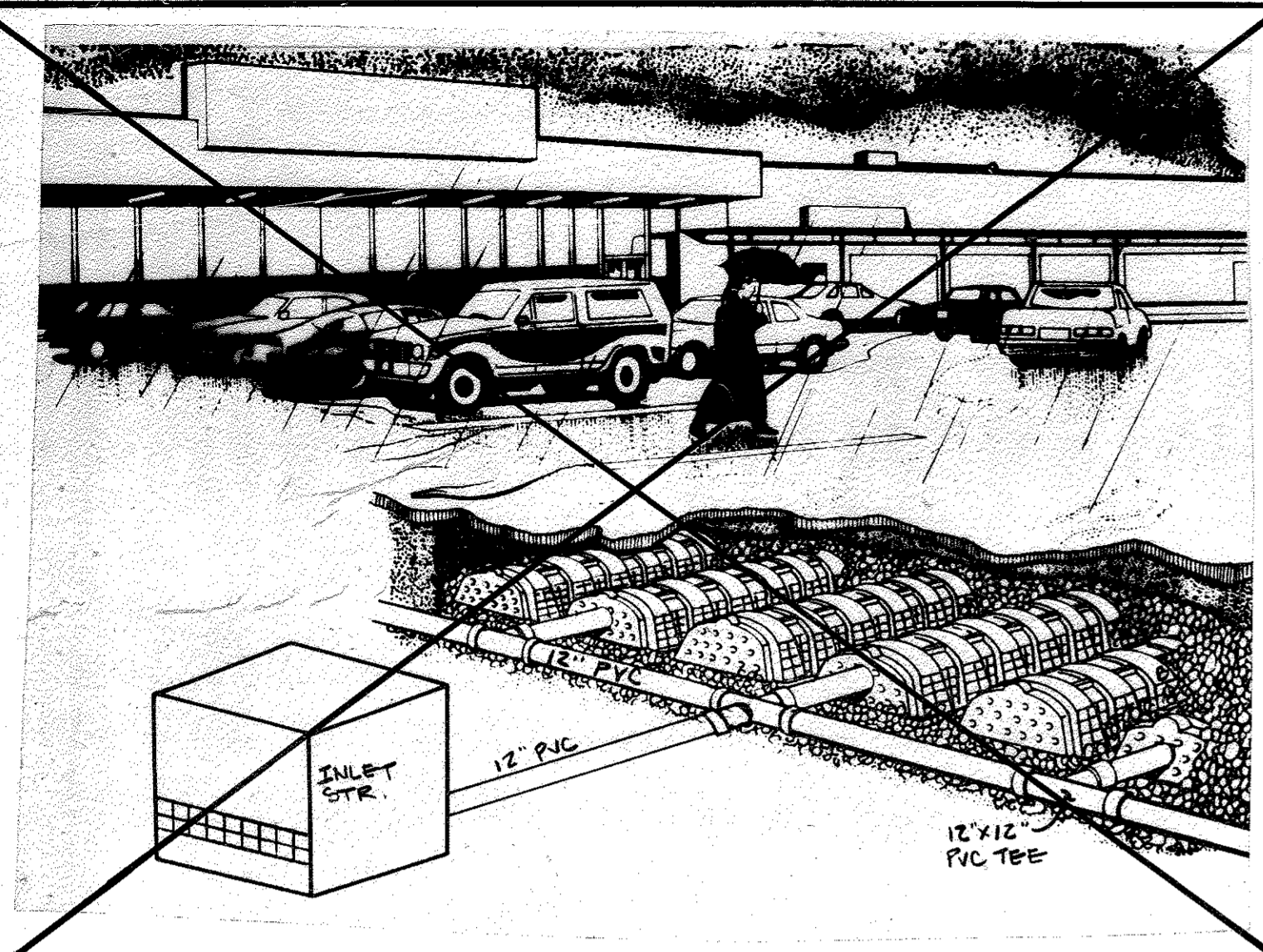
ENGINEER CERTIFICATE

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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

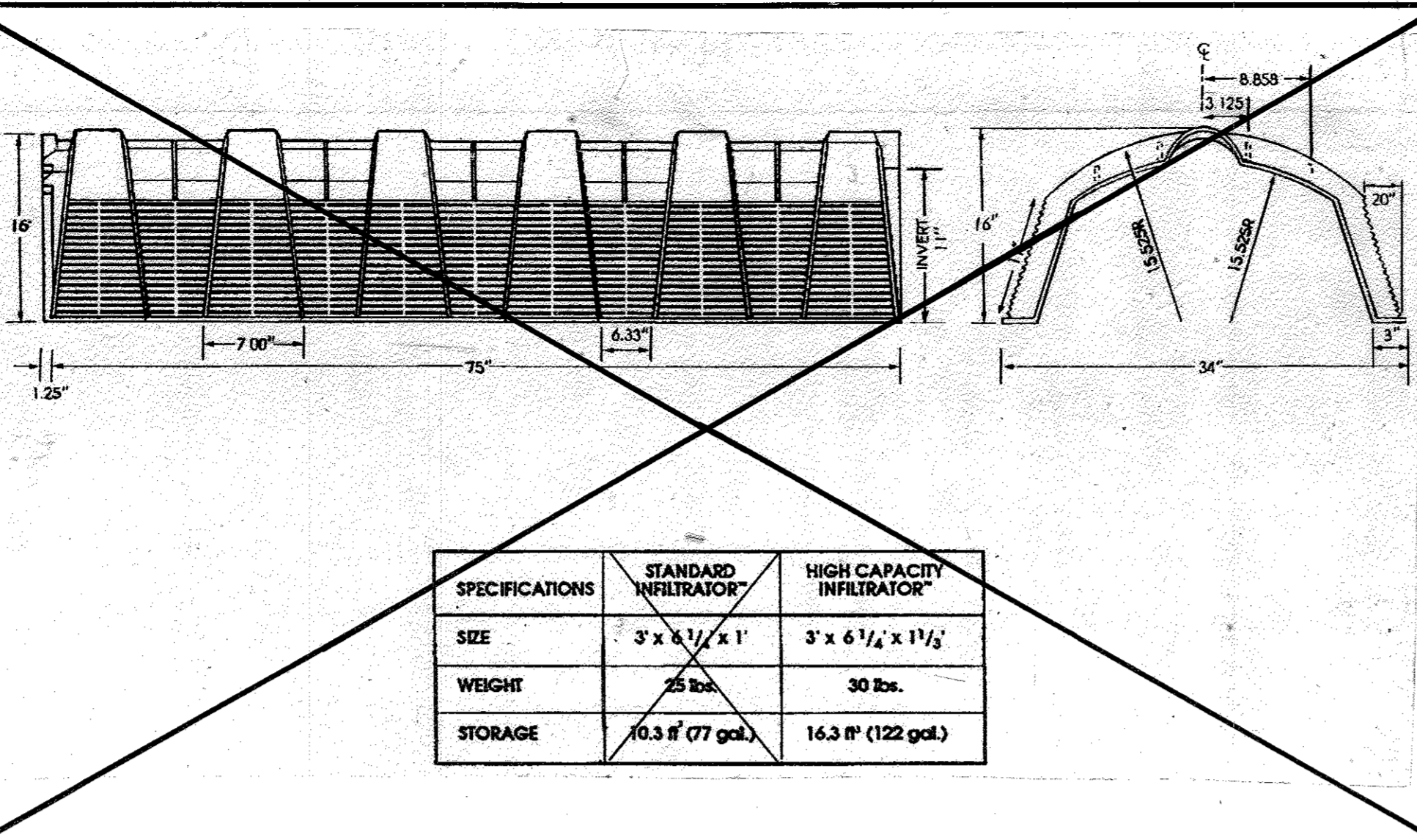
Signature of Engineer: *Billie ...* 8/23/93
DATE: 8/23/93

ADDRESS CHART

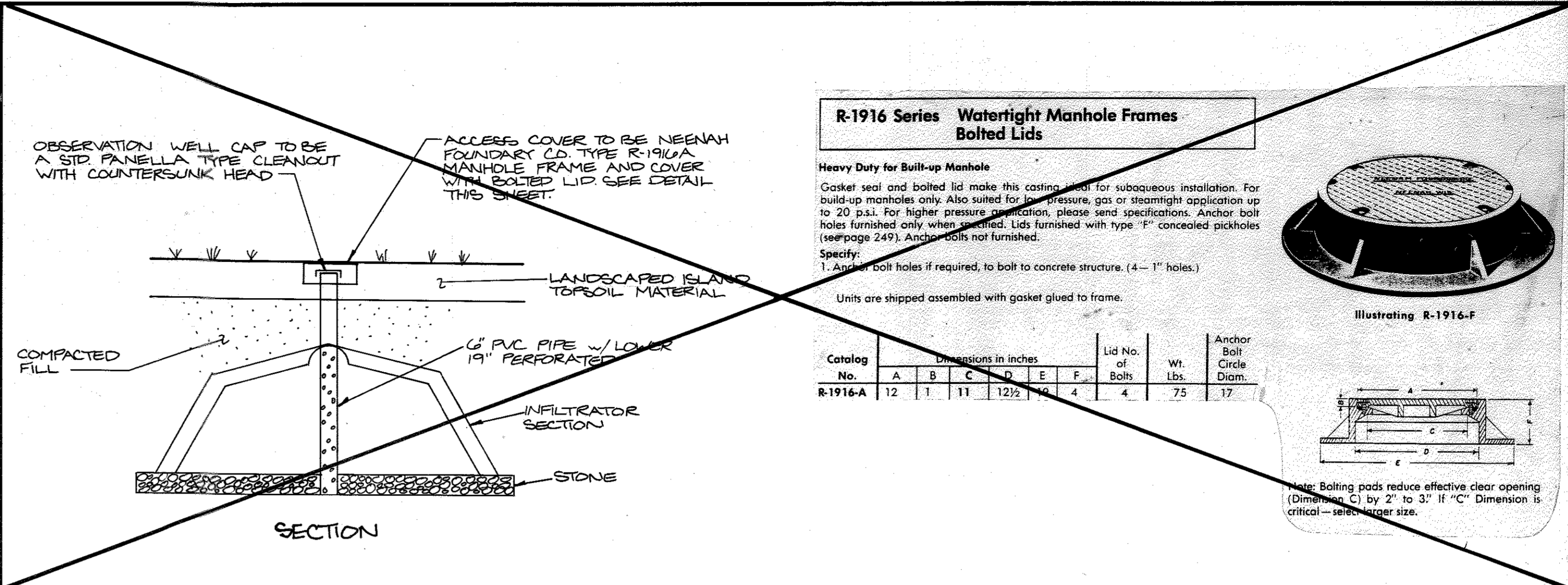
BLDG	ADDRESS
	8070 HARRIET TURMAN LANE



CUTAWAY SKETCH INFILTRATOR INSTALLATION



HIGH CAPACITY INFILTRATOR CHAMBER

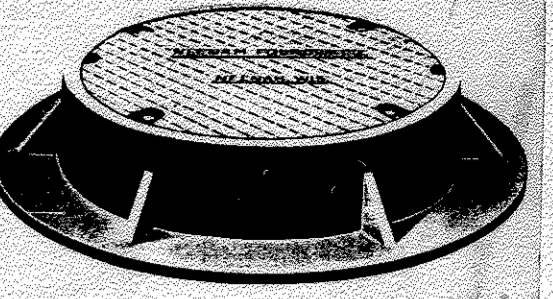


OBSERVATION WELL DETAIL

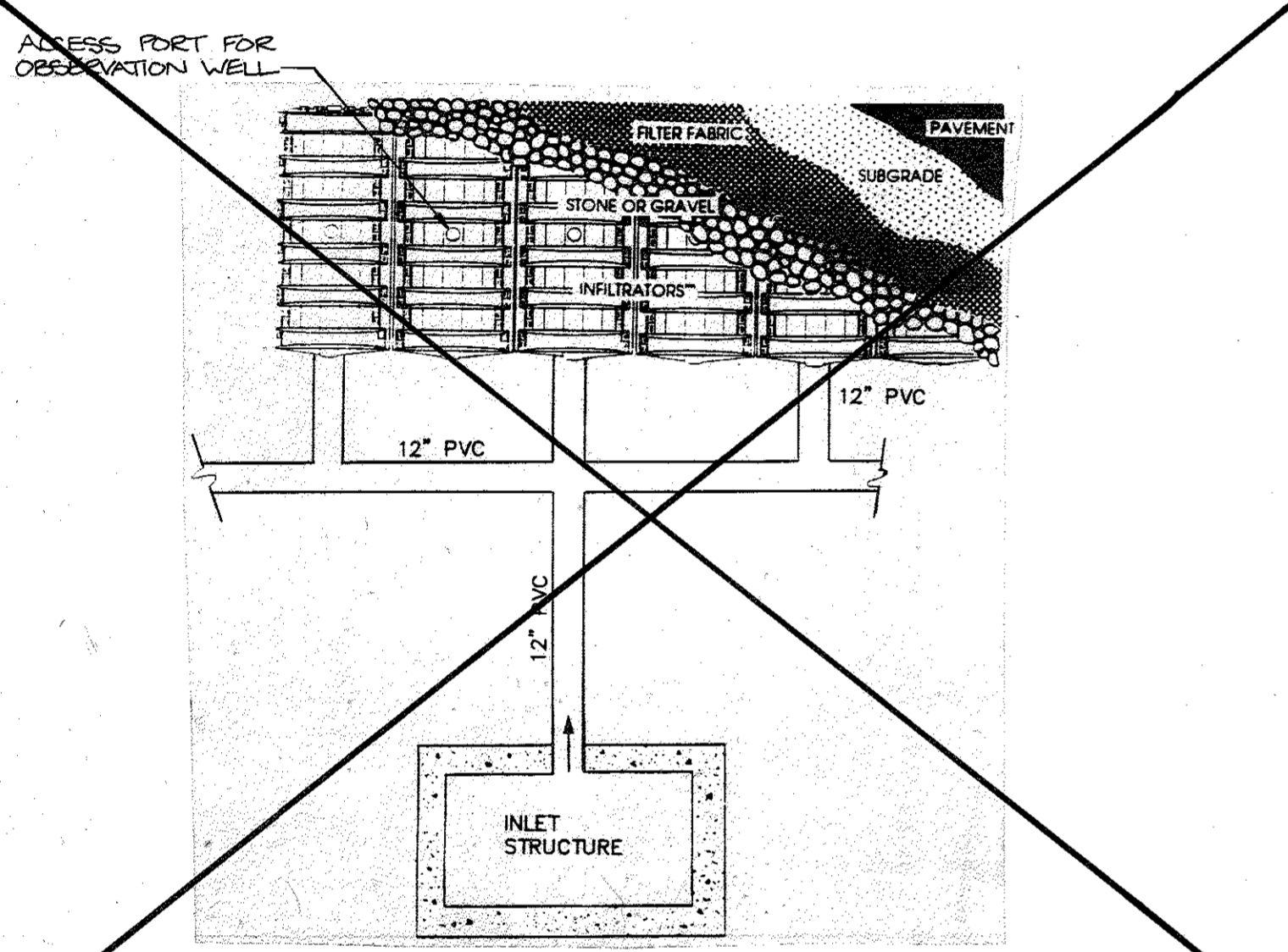
R-1916 Series Watertight Manhole Frames Bolted Lids

Heavy Duty for Built-up Manhole
Gasket seal and bolted lid make this casting ideal for subaqueous installation. For built-up manholes only. Also suited for low pressure, gas or steamtight application up to 20 p.s.i. For higher pressure application, please send specifications. Anchor bolts furnished only when specified. Lids furnished with type "F" concealed pickholes (see page 249). Anchor bolts not furnished.
Specify:
1. Anchor bolt holes if required, to bolt to concrete structure. (4-1" holes).
Units are shipped assembled with gasket glued to frame.

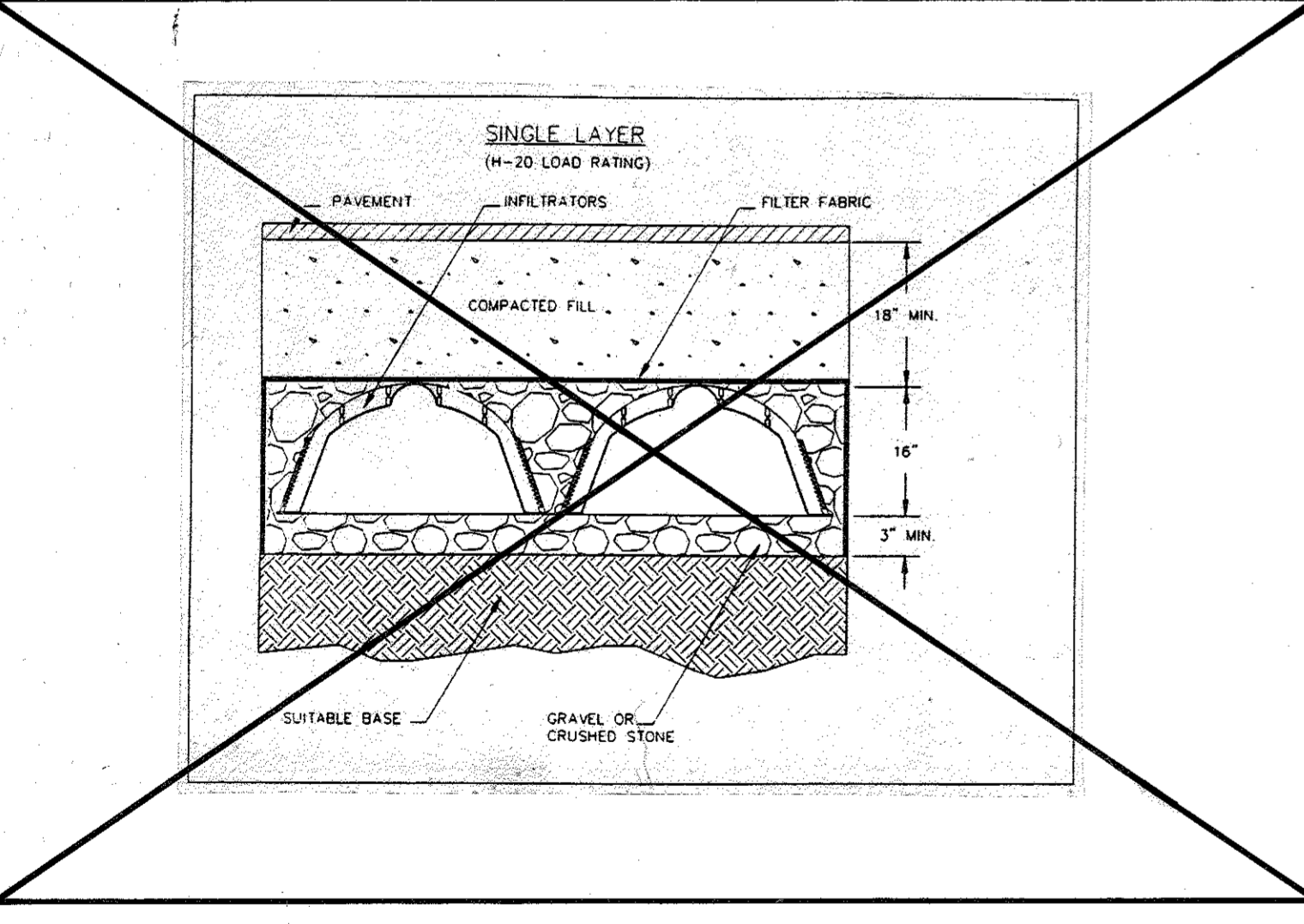
Catalog No.	Dimensions in inches						Lid No. of Bolts	Wt. Lbs.	Anchor Bolt Circle Diam.
	A	B	C	D	E	F			
R-1916-A	12	1	11	12 1/2	16	4	4	75	17



Illustrating R-1916-F
Note: Bolting pads reduce effective clear opening (Dimension C) by 2" to 3". If "C" Dimension is critical - select larger size.



INFILTRATOR INSTALLATION SKETCH



INFILTRATOR INSTALLATION SECTION

APPENDIX C
INFILTRATOR SYSTEMS INCORPORATED
SPECIFICATION STANDARD

1.0 GENERAL
INFILTRATOR™ chambers are manufactured plastic units designed to control stormwater runoff. An INFILTRATOR™ chamber system may be designed to retain the water and infiltrate the water back into the soil, or detain the water and store it for a metered flow to an outfall.

2.0 TYPES AND FITTINGS
2.1 High Capacity units shall be plastic arch shaped, open-bottomed chamber with side wall openings. The nominal unit dimensions shall be 16" high x 34" wide x 75" long with a minimum distance of 10" below the invert.
2.2 H-10 units (American Association of State Highway and Transportation Officials AASHTO) shall have a load rating of 16,000 lbs/axle with 12" of backfill cover.
2.3 H-20 units (American Association of State Highway and Transportation Officials AASHTO) shall have a load rating of 32,000 lbs/axle with 18" of backfill cover.
2.4 Open End Plates shall be plastic plates which conform and attach to the end of a chamfer bar unit. The inlet access hole shall be able to receive a 4" diameter pipe.
2.5 Closed End Plates shall be plastic plates which conform and attach to the end of a chamber unit. Solid plates shall be used to restrict soil and stone intrusion into the chamber. They shall also be utilized to accept larger diameter inlet pipes through a custom cut access port.

3.0 MANUFACTURING PROCESS
Each high density polyethylene unit shall be processed by an injection molding process.

4.0 PRODUCT PARAMETERS
4.1 Each unit shall have a nominal wall thickness of 1/8".
4.2 Each unit shall have a bearing footprint of 2.0 square feet to prevent sinking and to minimize soil masking.
4.3 Each unit shall have a minimum nominal sidewall height of 10". Side openings shall extend to the top of each sidewall.
4.4 Each unit shall have a minimum of 2.0 square feet of sidewall openings per linear foot or 1.9 square feet per unit. Side openings shall be .020" wide and have ribs above and below to maximize infiltration and minimize fines intrusion. Ribs shall be a minimum of .25" high and the bottom of the openings shall slope upward at approximately 20° to prevent fines intrusion. Use of filter fabric or geotextile shall be prohibited, except at interface of soil and stone.
4.5 Each unit shall have interlocking joints for the latching of units. A minimum of 1-1/4" overlap of each joint shall be provided.
4.6 Each chamber shall have a knockout access port sized to receive a 4" diameter pipe, and centered on top of each unit.

5.0 MATERIALS
5.1 Plastic leaching chambers shall be manufactured from high density polyethylene.
5.2 The density of polyethylene raw material shall be a minimum of .9550 g/cm³ - ASTM D1248 D1505.
5.3 The unit shall be color coded so to clearly identify H-10 and H-20 units.

TESTING REQUIREMENT
6.1 In ground strength tests shall have been performed by a registered Professional Engineer near and meet an AASHTO rating H-10 (16,000 lbs/axle) with 12" of cover and H-20 (32,000 lbs/axle) with 18" of cover.
6.2 Drop weight impact testing shall be performed on a minimum of 1 unit per 60, and shall conform to the requirements of the American Society of Civil Engineers specifications. The minimum size shall require a 6 lb. weight with a 1/4" diameter rounded head dropped from a height of 20" onto a panel of the product which rests on a 2" diameter support ring.

7.0 GENERAL REQUIREMENT
7.1 Installation shall be in accordance with manufacturers recommendations and conform to all applicable state, county and local regulations.

KCI DRILLING CO. INC.
RECORD OF SOIL EXPLORATION
Temple Beth Shalom
Columbia, Maryland

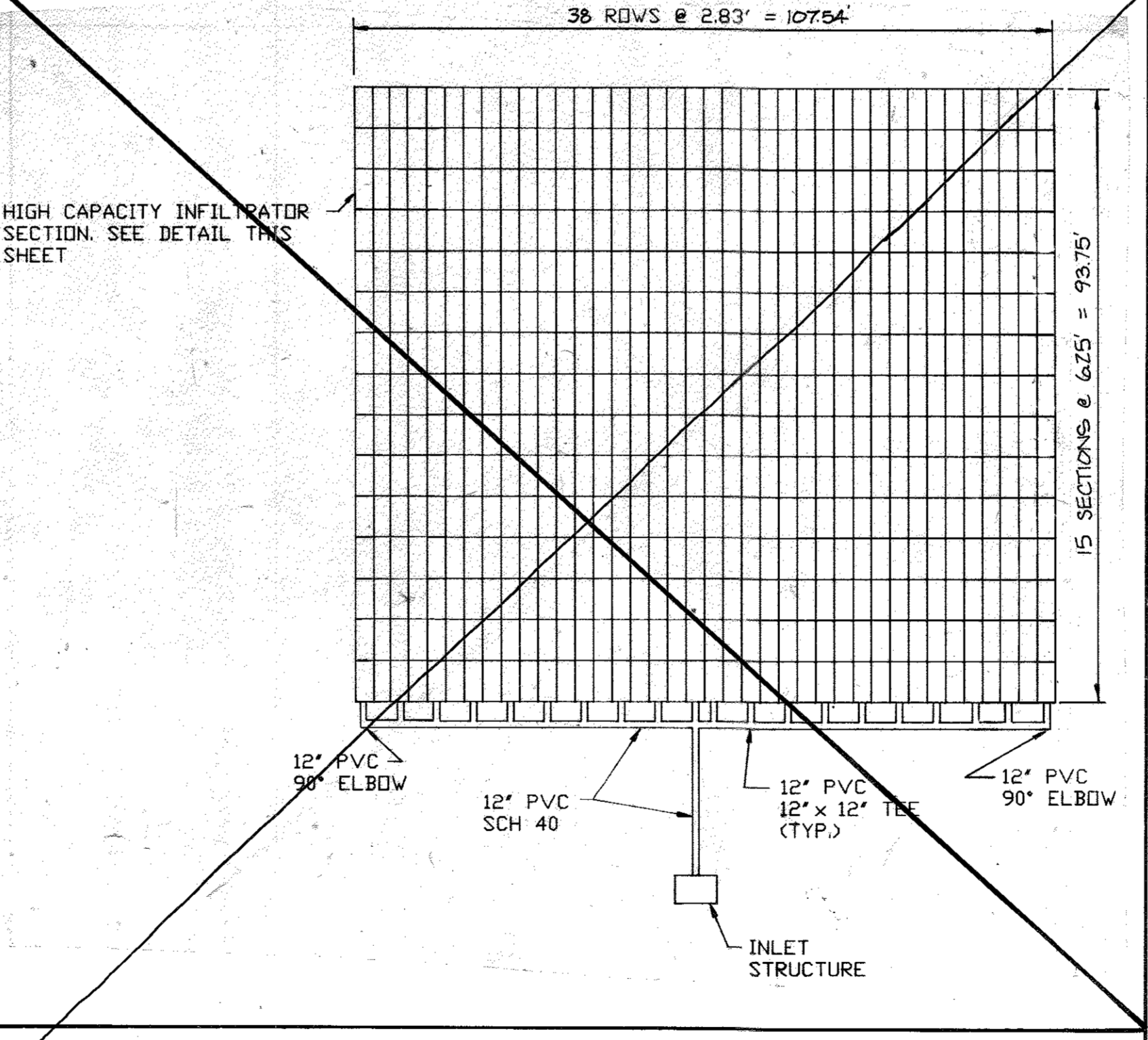
BLK.	SOIL DESCRIPTION	STRA. DEPTH	SCALE	REMARKS	TESTS	NOTES
327.5	Brown moist soft silty clay with trace flint	2.5'	1:1	1-2-3	1 1/4"	6" Topsoil
401.0	Brown moist medium dense silty sand with trace organic (SM) 2.41 in/hr	5.0'	1:1	6-4-10	2 1/8"	10.5' Water Encountered
395.0	Brown moist medium dense fine silty sand with weathered rock (SM) 2.41 in/hr	10.0'	1:1	3-4-7	3 1/8"	Caved @ 13.7' W/L 14.3'
396.0	Gray and brown moist very dense sand with some silt (weathered rock) (SM) 2.41 in/hr	15.0'	1:1	3-4-6	4 1/8"	
388.0	Bottom of Test Boring @ 20.0'	20.0'	1:1	10-21-16	7 1/4"	

KCI DRILLING CO. INC.
RECORD OF SOIL EXPLORATION
Temple Beth Shalom
Columbia, Maryland

BLK.	SOIL DESCRIPTION	STRA. DEPTH	SCALE	REMARKS	TESTS	NOTES
398.0	Light brown moist medium dense silty clay with silty sand (SM) 2.41 in/hr	10.0'	1:1	1-3-5	1 1/4"	6" Topsoil
395.0	Brown moist medium dense silty sand with trace organic (SM) 2.41 in/hr	5.0'	1:1	4-7-14	2 1/8"	15' Water Encountered
390.0	Gray and brown moist medium dense silty sand (SM) 2.41 in/hr	10.0'	1:1	3-4-6	4 1/8"	Caved @ 13.2' Offcut 7" south hit rock at 4.5' on first attempt
380.0	Bottom of Test Boring @ 20.0'	20.0'	1:1	18-18-16	7 1/4"	

KCI DRILLING CO. INC.
RECORD OF SOIL EXPLORATION
Temple Beth Shalom
Columbia, Maryland

BLK.	SOIL DESCRIPTION	STRA. DEPTH	SCALE	REMARKS	TESTS	NOTES
398.0	Light brown moist medium dense silty clay with silty sand (SM) 2.41 in/hr	10.0'	1:1	1-3-5	1 1/4"	6" Topsoil
395.0	Brown moist medium dense silty sand with trace organic (SM) 2.41 in/hr	5.0'	1:1	4-7-14	2 1/8"	15' Water Encountered
390.0	Gray and brown moist medium dense silty sand (SM) 2.41 in/hr	10.0'	1:1	3-4-6	4 1/8"	Caved @ 13.2' Offcut 7" south hit rock at 4.5' on first attempt
380.0	Bottom of Test Boring @ 20.0'	20.0'	1:1	18-18-16	7 1/4"	



INFILTRATOR INSTALLATION PLAN

SOIL BORING LOGS

OPERATION AND MAINTENANCE SCHEDULE

OPERATION
An observation well will be provided for the system by incorporating a 6" PVC pipe placed into a "knock-out" in the center of the main unit. This will allow for inspection of the facility to insure the devices are operating as designed and approved and to monitor the sediment levels and draw down times for the system. The facility will operate throughout the life of this development and will be maintained in accordance with the maintenance schedule. Inspections shall be made at a minimum of 2 times per year.

MAINTENANCE SCHEDULE
The following maintenance schedule is to be used as a minimum requirement for the system. This schedule may be revised if inspections of the system yield that more frequent maintenance is necessary.

Structure	Minimum Schedule
SWM Quality	Annually or when routine inspection shows need
Inlet Structure	When routine inspection shows need
Infiltrator System	When routine inspection shows need

The method of maintenance for the infiltrator system shall be to inject water into the system through the observation well. This will put fine sediments back into suspension where they will then be pumped out and removed.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Director: *Qina Swaminani* 5/18/94
DATE: 5/18/94

REC Δ REVISED PER APPENDIX NO.1 3/29/93
DLG 6 REVISED PER REGIME REVISIONS 9/8/94
RHW 6 ADD PROPOSED CLASSROOM ADDITION TO EXISTING BUILDING 11/22/94

BY NO. REVISION DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Director: *James J. Elmer* 5/16/94
DATE: 5/16/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer: *Paul M. Pappan* 5/13/94
DATE: 5/13/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer: *Paul M. Pappan* 5/13/94
DATE: 5/13/94

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Patricia Engleke 5/16/94
U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
David Osenberg 9/21/93
HOWARD SOIL CONSERVATION DISTRICT DATE

CERTIFICATE BY DEVELOPER
I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
David Osenberg 9/21/93
SIGNATURE OF DEVELOPER DATE
(PRINT NAME BELOW SIGNATURE)

ENGINEER CERTIFICATE
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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Bobby W. Keith 8/23/93
SIGNATURE OF ENGINEER DATE
(PRINT NAME BELOW SIGNATURE)

ADDRESS CHART
BLDG. ADDRESS
8070 HARRIET TUEMAN LANE

OWNER/DEVELOPER
BETH SHALOM CONGREGATION
c/o DAVID KENBERG
4221 EAGLESWING COURT
ELLICOTT CITY, MD 21042
(410) 461-5920

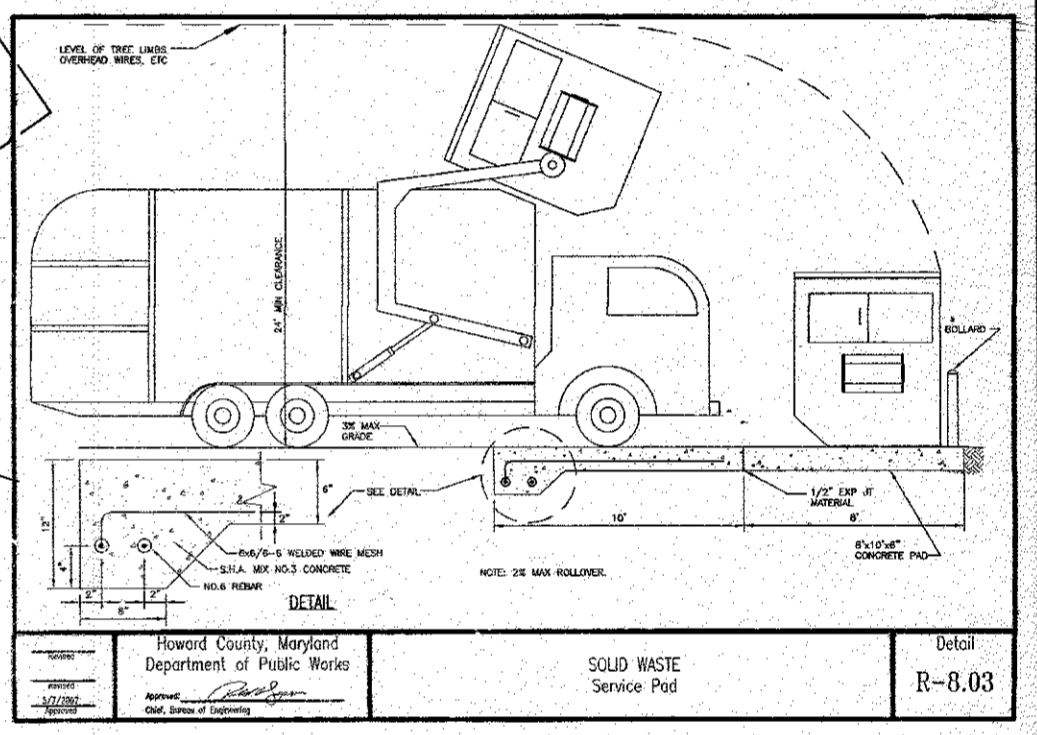
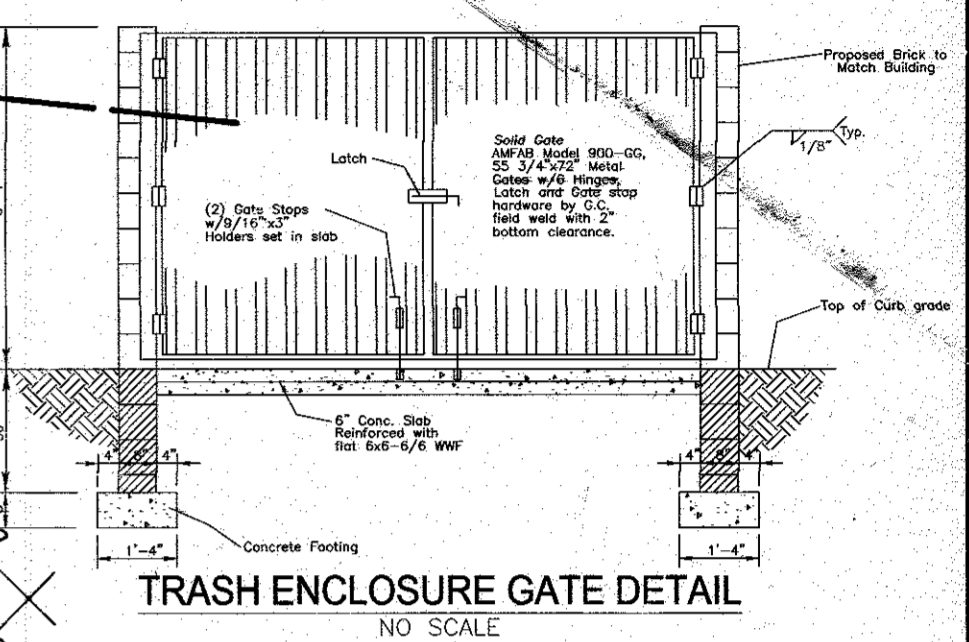
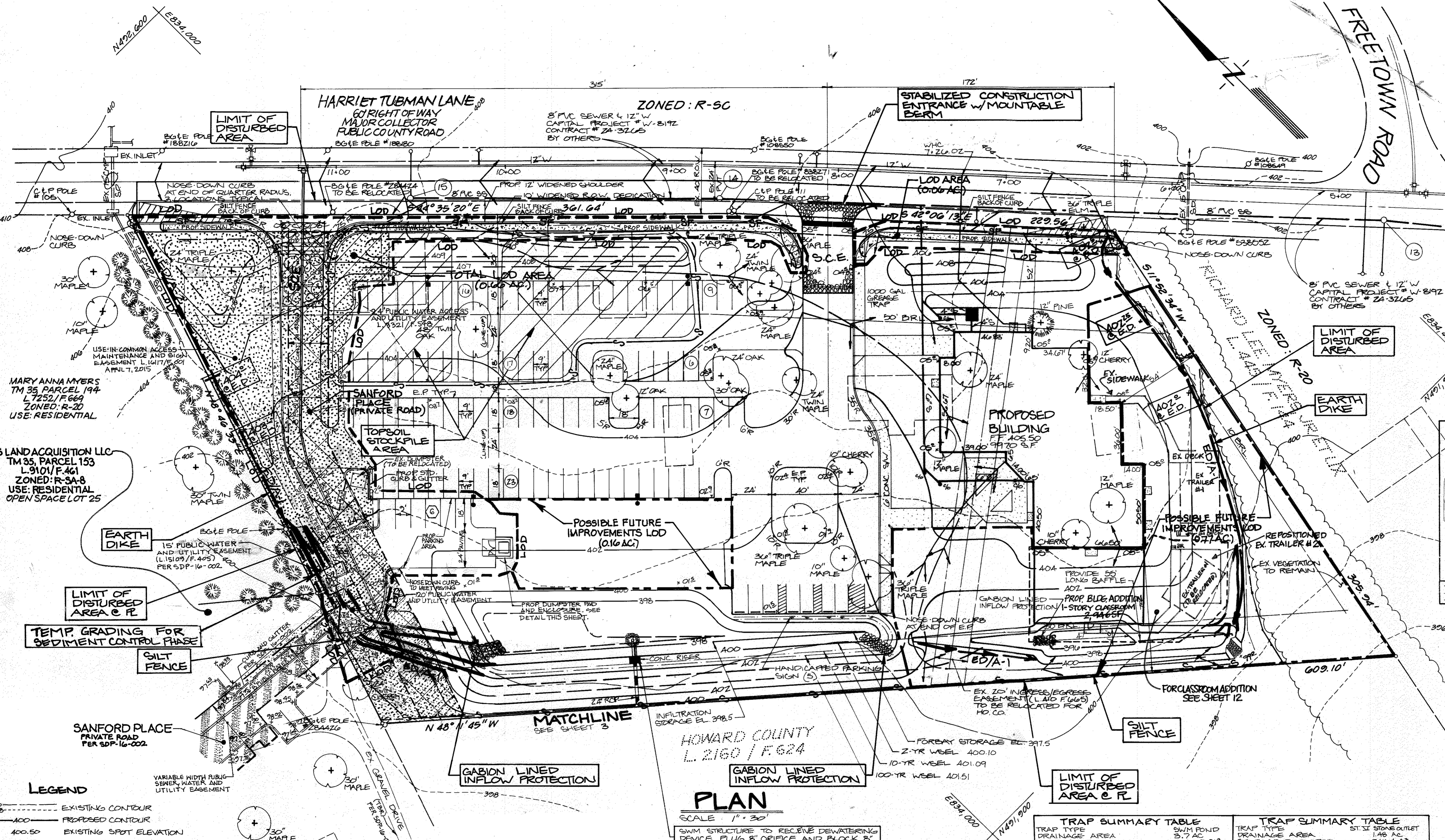
TEMPLE BETH SHALOM

STORMWATER MANAGEMENT DETAILS AND PROFILES
SDP-94-31

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
8306 PATUXENT RANGE ROAD
JESUP, MARYLAND 20794-8609
PHONE: (301) 953-1821 (WASH.)
(410) 792-8086 (BALT.)
DATE: JULY 1993 SCALE: AS SHOWN
SHEET NO. 7 OF 12
SDP-94-31

SITE DATA

- PROPOSED USE: RELIGIOUS ACTIVITY (SYNAGOGUE)
1. ZONING: R-20
 2. MAP 35, BLOCK 24, PARCEL 256
 3. AREA OF SITE: 3.9440 AC.
 4. AREA DEDICATED R.O.W.: (10' FRONTAGE) 1.1355 AC.
 5. NET AREA OF SITE: 2.7985 AC.
 6. BUILDING COVERAGE: (PHASE I) 9,970 S.F. 0.2289 AC.
 7. PARKING AREA COVERAGE: (PAVED AREA) 49,450 S.F. 1.1352 AC.
 8. OPEN SPACE/GREEN SPACE: 146,148 S.F. 3.3444 AC.
 9. PARKING SPACES:
 - A. REQUIRED: 100 SPACES CAPACITY 100 SPACES
 - B. PROPOSED: 105 SPACES (HANDICAPPED SPACES INCLUDED)
 - C. PROPOSED: (WITH FUTURE) 154 SPACES TOTAL
 - D. PARKING SPACE SIZE: 11' X 21' TO WHEEL STOP
 10. TOTAL PARKING AREA: 49,450 S.F. 1.1352 AC.
 - A. INTERIOR LANDSCAPING 5% REQUIRED: 2,472 S.F.
 - B. EXTERIOR LANDSCAPING 5% REQUIRED: 2,472 S.F.
 - C. TOTAL LANDSCAPING 10% REQUIRED: 4,944 S.F.
 11. TOTAL PARKING AREA AND FUTURE PARKING: 174,864 S.F. 4.0000 AC.
 - A. INTERIOR LANDSCAPING 5% REQUIRED: 17,486 S.F.
 - B. EXTERIOR LANDSCAPING 5% REQUIRED: 17,486 S.F.
 - C. TOTAL LANDSCAPING 10% REQUIRED: 34,972 S.F.
 12. BUILDING COVERAGE: (PHASE II) 20,740 S.F. 0.4761 AC.
 13. TOTAL PARKING: (PHASE II) 80,319 S.F. = 1.8219 AC. (AFTER PHASE II BUILD-OUT) 59,579 S.F. = 1.3677 AC.



PLAN

SCALE 1" = 30'

THIS PLAN FOR SEDIMENT CONTROL USE ONLY

NOTE:
 1. SEE SDP-16-002 FOR CONTINUATION OF DEVELOPMENT OF PARCEL 153.
 2. THE DUMPSTER SHOWN ON THIS SDP IS FOR THE USE OF TEMPLE BETH SHALOM.

TRAP SUMMARY TABLE

TRAP TYPE	SWIM POND	ST. II STONE OUTLET
DRAINAGE AREA	3.7 AC	1.48 AC
STORAGE REQUIRED	6,000 F ³	2,000 F ³
STORAGE PROVIDED	17,554 F ³	4,050 F ³
OUTLET PIPE SIZE	24" REL.	18" REL.
RISER CREST ELEV.	401.00	399.0
CLEANOUT ELEV.	399.5	391.0
BOTTOM DIMENSIONS	SEE PLAN	10' X 4'
SIDE SLOPES	3:1 & 4:1	2:1
EMBANKMENT HEIGHT	2.5 FT	1.0
DEPTH OF TRAP	5.5 FT	4.0'
BOTTOM OF TRAP ELEV.	397.0	396.0

TRAP SUMMARY TABLE

TRAP TYPE	SWIM POND	ST. II STONE OUTLET
DRAINAGE AREA	3.7 AC	1.48 AC
STORAGE REQUIRED	6,000 F ³	2,000 F ³
STORAGE PROVIDED	17,554 F ³	4,050 F ³
OUTLET PIPE LENGTH	24" REL.	18" REL.
WEIR CREST ELEV.	401.00	399.0
CLEANOUT ELEV.	399.5	391.0
BOTTOM DIMENSIONS	SEE PLAN	10' X 4'
SIDE SLOPES	3:1 & 4:1	2:1
EMBANKMENT HEIGHT	2.5 FT	1.0
DEPTH OF TRAP	5.5 FT	4.0'
BOTTOM OF TRAP ELEV.	397.0	396.0

- LEGEND**
- 410 --- EXISTING CONTOUR
 - 400 --- PROPOSED CONTOUR
 - 400.50 --- EXISTING SPOT ELEVATION
 - 400.82 --- PROPOSED SPOT ELEVATION
 - PROPOSED CURB & GUTTER
 - PROPOSED EDGE OF PAVEMENT
 - EXISTING DRAINAGE DIVIDE
 - PROPOSED DRAINAGE DIVIDE
 - ⊕ --- PROPOSED TREE PROTECTION FENCE
 - VARIABLE WIDTH PUBLIC SEWER, WATER AND UTILITY EASEMENT
 - LIMIT OF DISTURBANCE
 - FUTURE IMPROVEMENT AREA

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Director: *[Signature]* 5/18/94
 Chief, Division of Land Development and Research: *[Signature]* 5/18/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* 5/18/94
 Chief Bureau of Engineering: *[Signature]* 5/13/94

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL
 Patricia Engle, Inc. 5/18/94
 U.S. SOIL CONSERVATION SERVICE

CERTIFICATE BY DEVELOPER
 I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
 David Isenberg 9/23/93
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DAVID ISENBERG

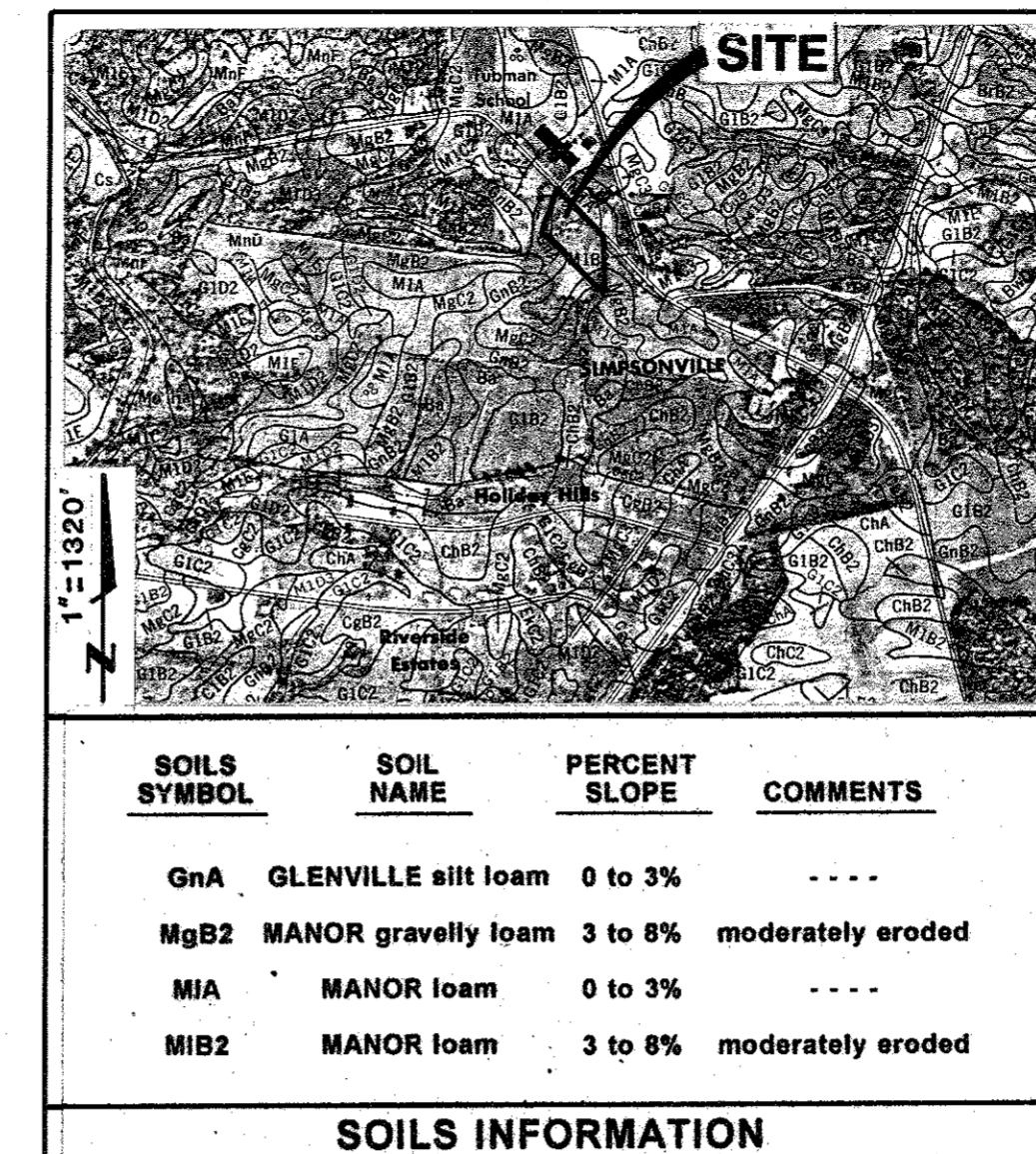
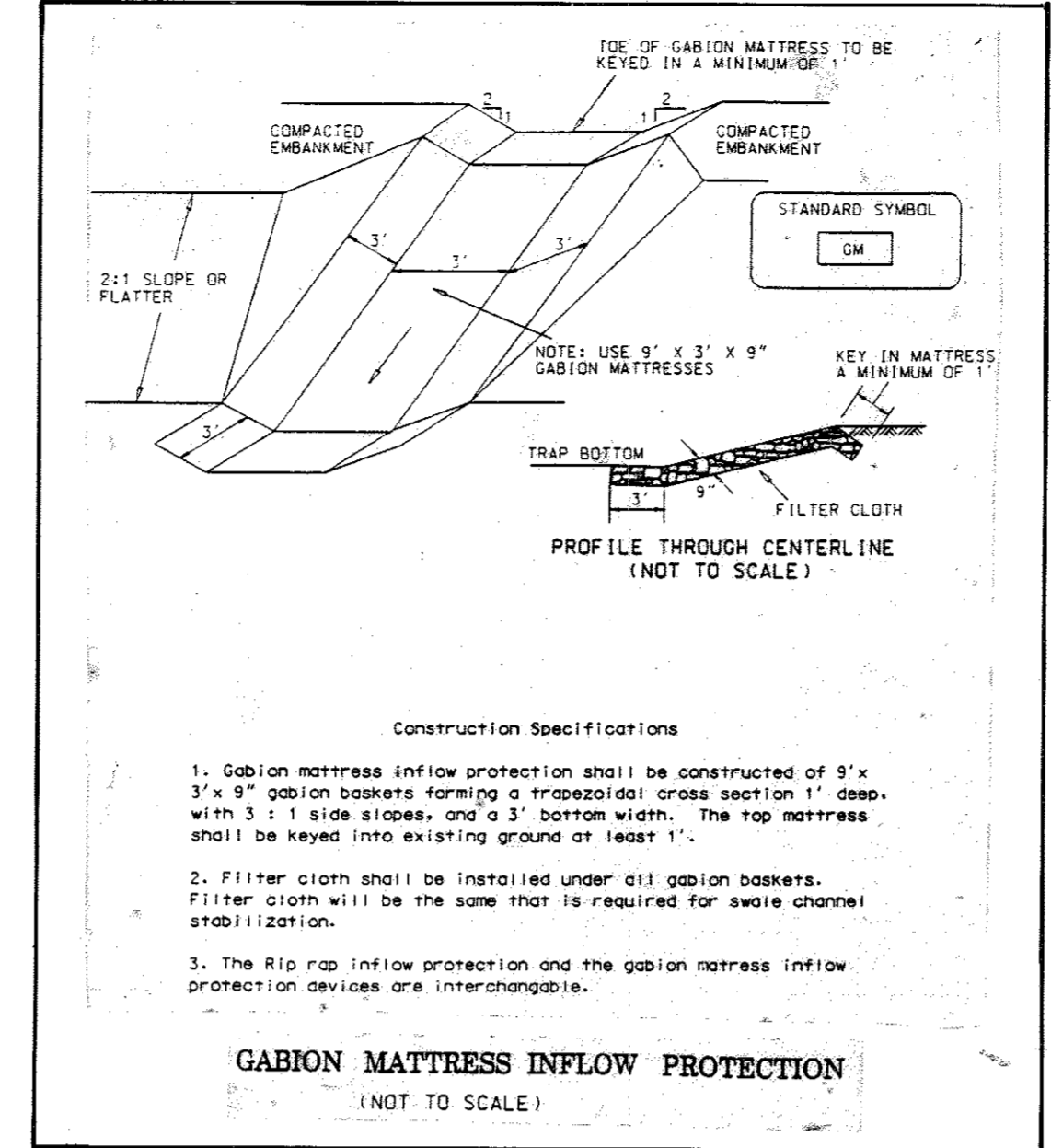
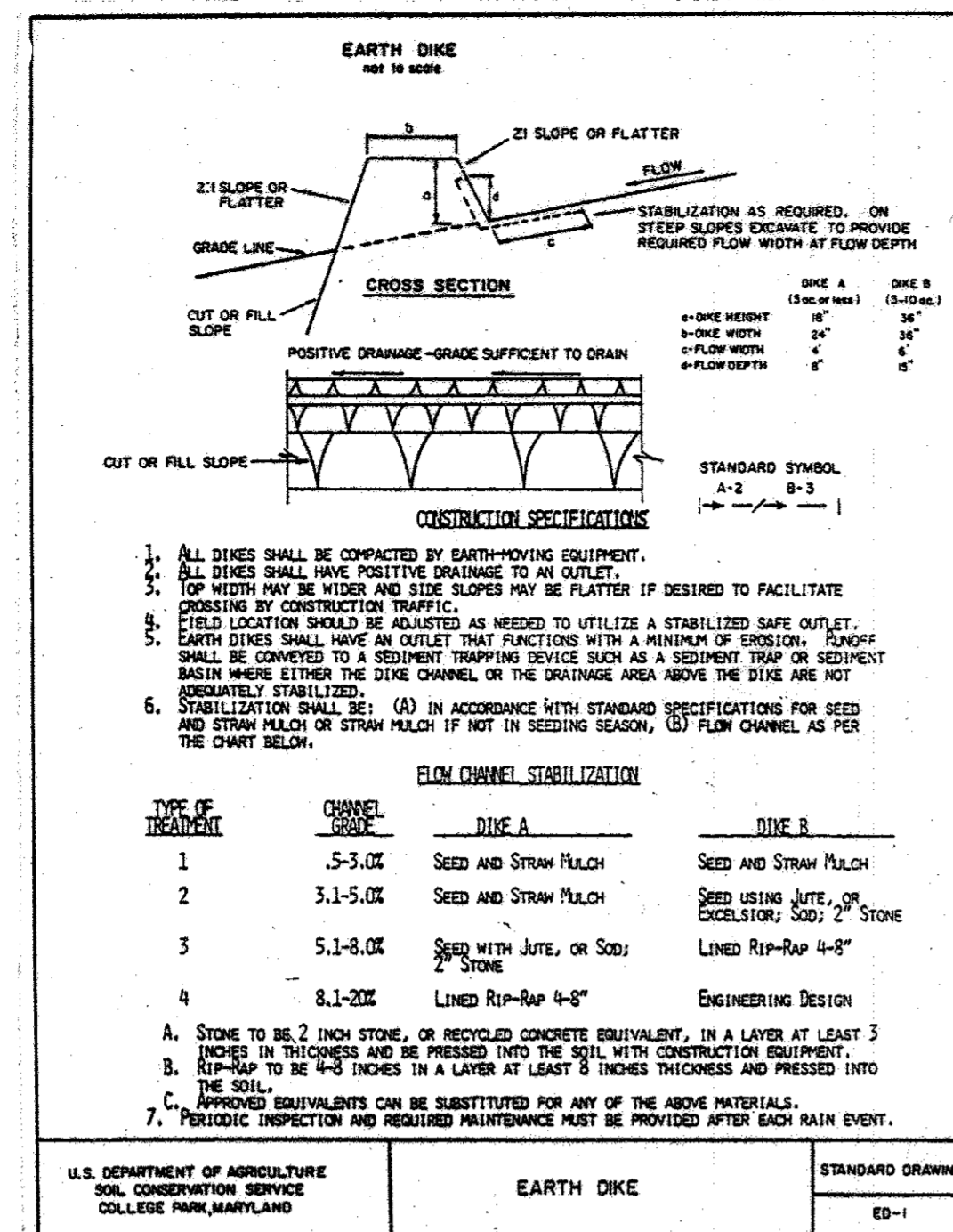
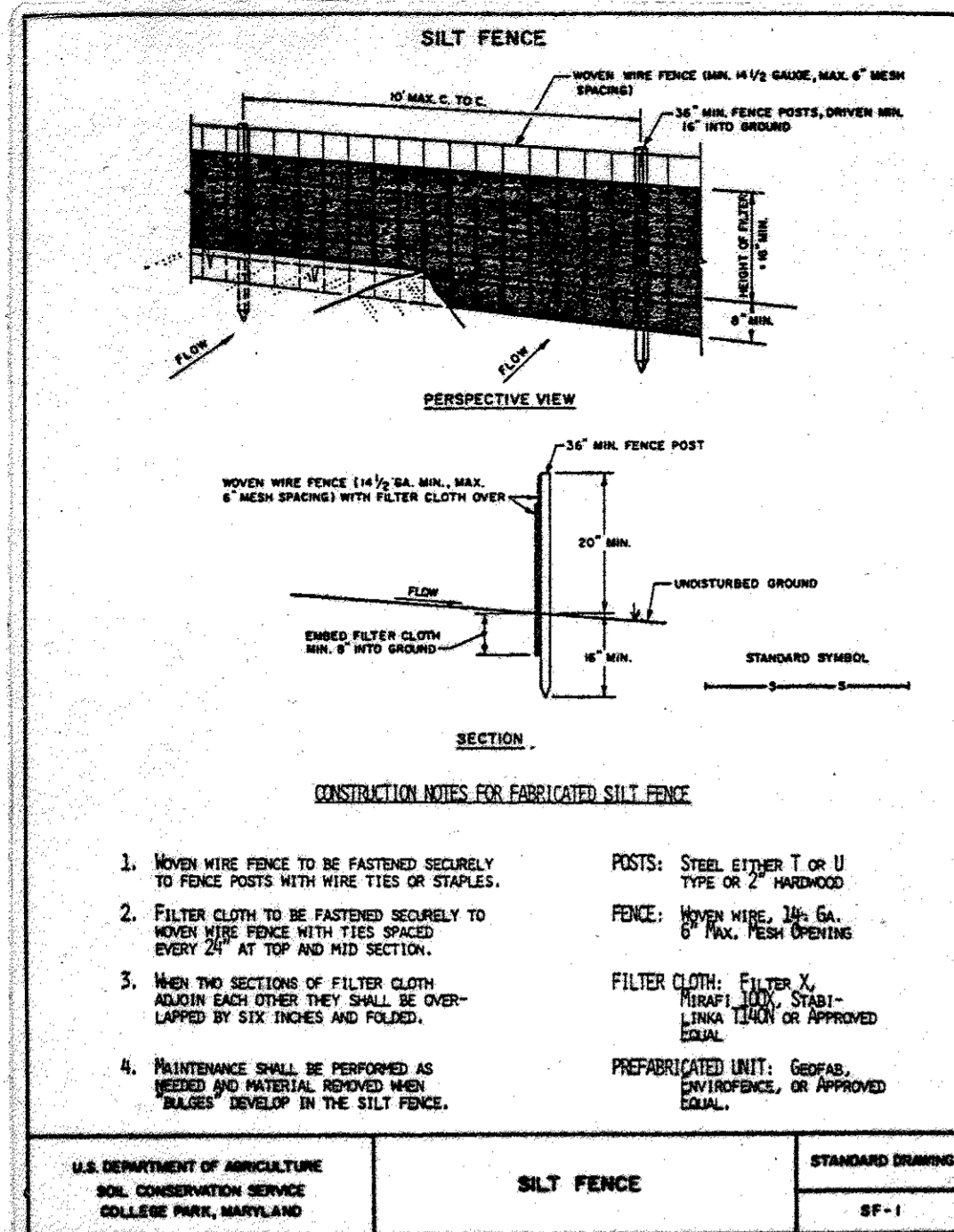
ENGINEER CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 8/23/93
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)

ADDRESS CHART
 BLDG ADDRESS
 8070 HARRIET TUBMAN LANE

OWNER/DEVELOPER
 BETH SHALOM CONGREGATION
 96 DAVID ISENBERG
 4221 EAGLESWING COURT
 ELLICOTT CITY, MD. 21042
 (410) 461-5720

TEMPLE BETH SHALOM
SEDIMENT CONTROL PLAN
 SDP-94-31

KCI TECHNOLOGIES, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 8308 PATUXENT RANGE ROAD
 JESSUP, MARYLAND 20794-8800
 PHONE: (301) 963-1821 (WASH.)
 (410) 782-8088 (BALT.)
 DATE: JULY 1993 SCALE: 1" = 30'
 SHEET NO. 8 OF 12
 SDP-94-31



SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permit prior to the start of any construction.
- All sediment control measures are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- All sediment control measures are to be adjusted to meet field conditions at the time of construction, upon approval of a State Inspector.
- All sediment and erosion control facilities are to be constructed prior to grading and they shall be in an operational condition before grading commences on the project area.
- Contractor installing the above shall obtain and follow the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within a 7 calendar day period after the completion of the grading activity. Temporary stabilization shall be completed on all slopes greater than 3:1; (a) 14 days as to all other disturbed or graded areas on the project area.
- All disturbed areas must be stabilized within the time period specified in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. Other grading or grading inspection approval may not be substituted until the initial approval of the inspection agency is made.
- All areas of erosion-prone areas are to be protected from tracking mud onto public right-of-way.
- Grading and construction may begin upon completion and acceptance of all sediment control measures as shown on this plan.
- All sediment traps/basins must be cleaned and warning sign posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permanent stabilization has been obtained from the Howard County Sediment Control Inspector.
- All sediment control structures shall be functional at the end of each day.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- All disturbed areas shall be finally stabilized with permanent seedings upon completion of final grading. See Pages 51.01 through 51.08 of referenced Standards and Specifications.
- The Contractor shall not disturb concrete curb and gutter or sidewalk in the areas indicated until the soil areas have been stabilized.
- Sediment control devices (ditches, dikes, traps, etc.) are to remain in place until construction is complete. Maintenance and development should be done as necessary. Removal of these devices shall be with the approval of the Howard County Department of Inspection, Licenses and Permits. After removal of sediment protection, shape and stabilize the areas immediately.
- Additional sediment control must be provided, if deemed necessary by the Howard County DFW Sediment Control Inspector.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.	1 DAY
2. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS, SEDIMENT CONTROL DIVISION, AT LEAST 48 HOURS PRIOR TO STARTING WORK TO ARRANGE A PRE-CONSTRUCTION CONFERENCE (410) 313-2436.	1 DAY
3. INSTALL TREE PROTECTION FENCE AND TREE PROTECTION DEVICES AS SHOWN ON SHEET 11.	1 DAY
4. INSTALL SCE AND SILT FENCE BELOW SWM POND. CONSTRUCT SWM POND/SEDIMENT AND STONE OUTLET TRAP AS SHOWN. REFER TO SWM POND SPECIFICATIONS FOR CONSTRUCTION OF SWM POND/SEDIMENT TRAP. INSTALL EARTH DIKES TO TRAP. INSTALL REMAINING SEDIMENT CONTROL DEVICES. CLEAR AND GRUB REMAINDER OF SITE AS SHOWN.	2 WEEKS
5. ROUGH GRADE THE SITE.	4 DAYS
6. BEGIN BUILDING CONSTRUCTION.	1 WEEK
7. PERMANENTLY STABILIZE ALL UNPAVED AREAS.	3 MONTHS
8. INSTALL CURB AND GUTTER AND BASE PAVE. NOTE: PAVING OF THE ACCESS DRIVE TO THE HOWARD COUNTY PROPERTY WILL INITIALLY EXTEND TO THE LIMITS SHOWN. THIS WILL ALLOW THE EARTH DIKE TO MAINTAIN POSITIVE FLOW TO THE SWM TRAP.	2 WEEKS
9. BEGIN SHA WIDENING OF GUILFORD ROAD.	2 WEEKS
10. PERMANENTLY STABILIZE ALL UNPAVED AREAS.	2 DAYS
11. ONCE THE AREA FLOWING TO THE EARTH DIKE ALONG THE SOUTHWESTERN PROPERTY LINE IS STABILIZED, WITH THE SEDIMENT CONTROL INSPECTOR'S APPROVAL, REMOVE THE EARTH DIKE AND COMPLETE PAVING OF ACCESS ROAD AS SHOWN.	2 WEEKS
12. WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE THE STONE OUTLET TRAP, SCE AND REMAINING PERIMETER CONTROLS. INSURE THAT ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.	4 DAYS

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE TRAFFIC DISTURBANCE WHERE A PERMANENT LOW-LIVED PERENNIAL COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN THREE INCHES OF SOIL BY BAITING, DISKING OR OTHER ACCEPTABLE MEANS. REMOVE DEBRIS AND ROCKS TO 10" DEPTH.

SEED MIXTURES: LIST OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE POLYMETRIC LITHIUM (92 LBS./1000 SQ. FT.) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. MAINTAIN OR DISK 12" TO 18" DEPTH THREE TIMES.
- ACCEPTABLE - APPLY 2 TONS PER ACRE POLYMETRIC LITHIUM (92 LBS./1000 SQ. FT.) BEFORE SEEDING. MAINTAIN OR DISK 12" TO 18" DEPTH THREE TIMES.

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15: SEED WITH 40 LBS PER ACRE (1.4 LBS./1000 SQ. FT.) OF MIXTURES 31 SHALL BE USED WITH 1/2 BUSHEL PER ACRE OF ANNUAL RYE (2.2 LBS./1000 SQ. FT.) FOR THE PERIOD OF MARCH 1 TO MAY 15, 1983. SEED WITH 3 LBS PER ACRE OF MIXTURES 31 AND 3 LBS PER ACRE OF ANNUAL RYE (2.2 LBS./1000 SQ. FT.) FOR THE PERIOD OF MAY 15 TO AUGUST 15, 1983. SEED WITH 3 LBS PER ACRE OF MIXTURES 31 AND 3 LBS PER ACRE OF ANNUAL RYE (2.2 LBS./1000 SQ. FT.) FOR THE PERIOD OF AUGUST 15 TO OCTOBER 15, 1983. SEED WITH 3 LBS PER ACRE OF MIXTURES 31 AND 3 LBS PER ACRE OF ANNUAL RYE (2.2 LBS./1000 SQ. FT.) FOR THE PERIOD OF OCTOBER 15 TO MARCH 1, 1984.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (50 TO 90 LBS./1000 SQ. FT.) OF UNDECOMPOSED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANOTHER MULCH IMMEDIATELY AFTER APPLICATION USING MULCH SPREADING TOOL OR 210 GALLONS PER ACRE (5 GALLONS/1000 SQ. FT.) OF MULCHIFIED ASPHALT ON FLAT AREAS. OR SLIPED WOOD CHIPS OR REDGUM, USE 340 GALLONS PER ACRE (3.4 GALLONS/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WITH A SHORT-TERM PERENNIAL COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN THREE INCHES OF SOIL BY BAITING, DISKING OR OTHER ACCEPTABLE MEANS. REMOVE DEBRIS AND ROCKS TO 10" DEPTH.

SEED MIXTURES: LIST OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE POLYMETRIC LITHIUM (92 LBS./1000 SQ. FT.) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. MAINTAIN OR DISK 12" TO 18" DEPTH THREE TIMES.
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MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND RESEEDINGS.

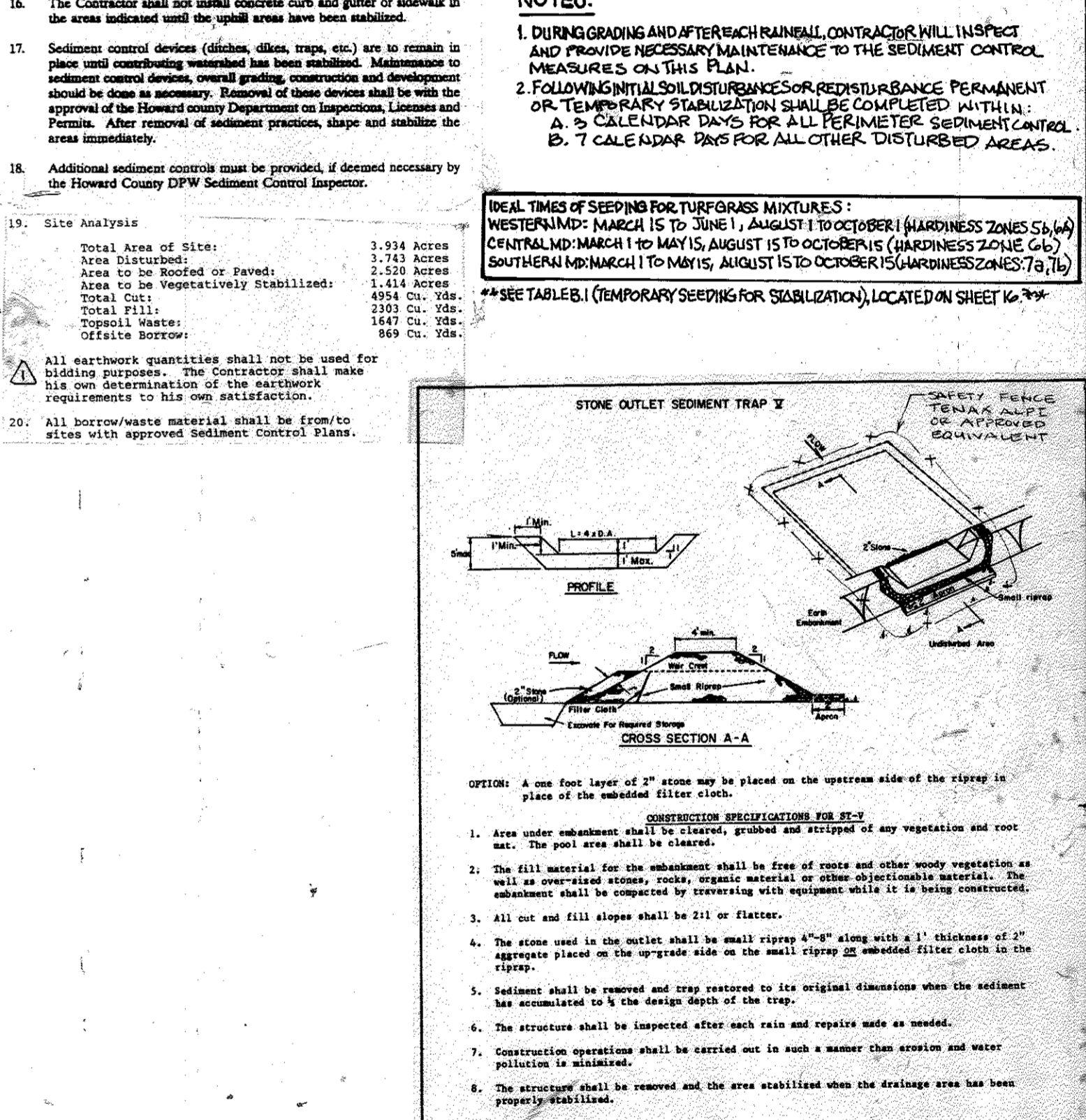
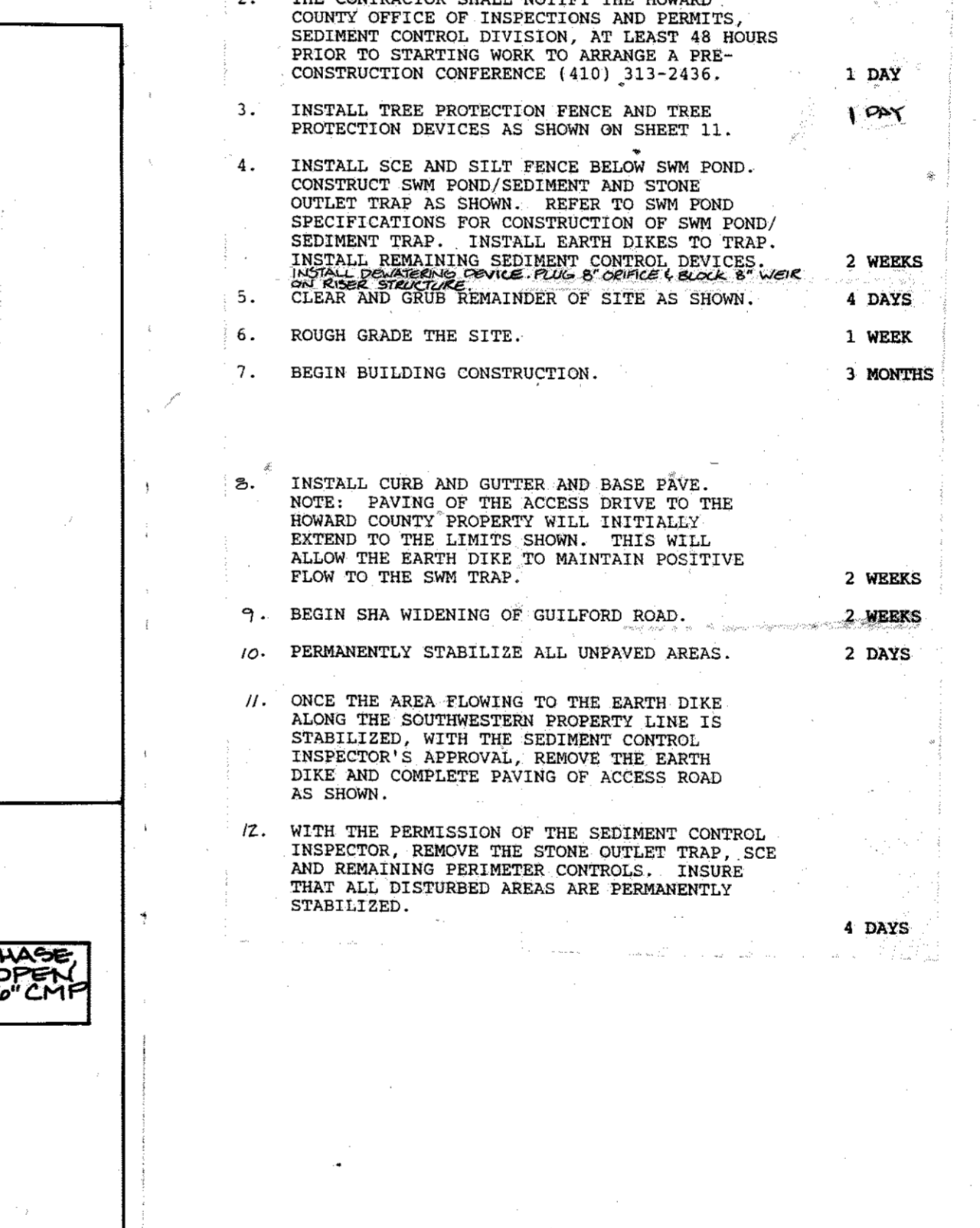
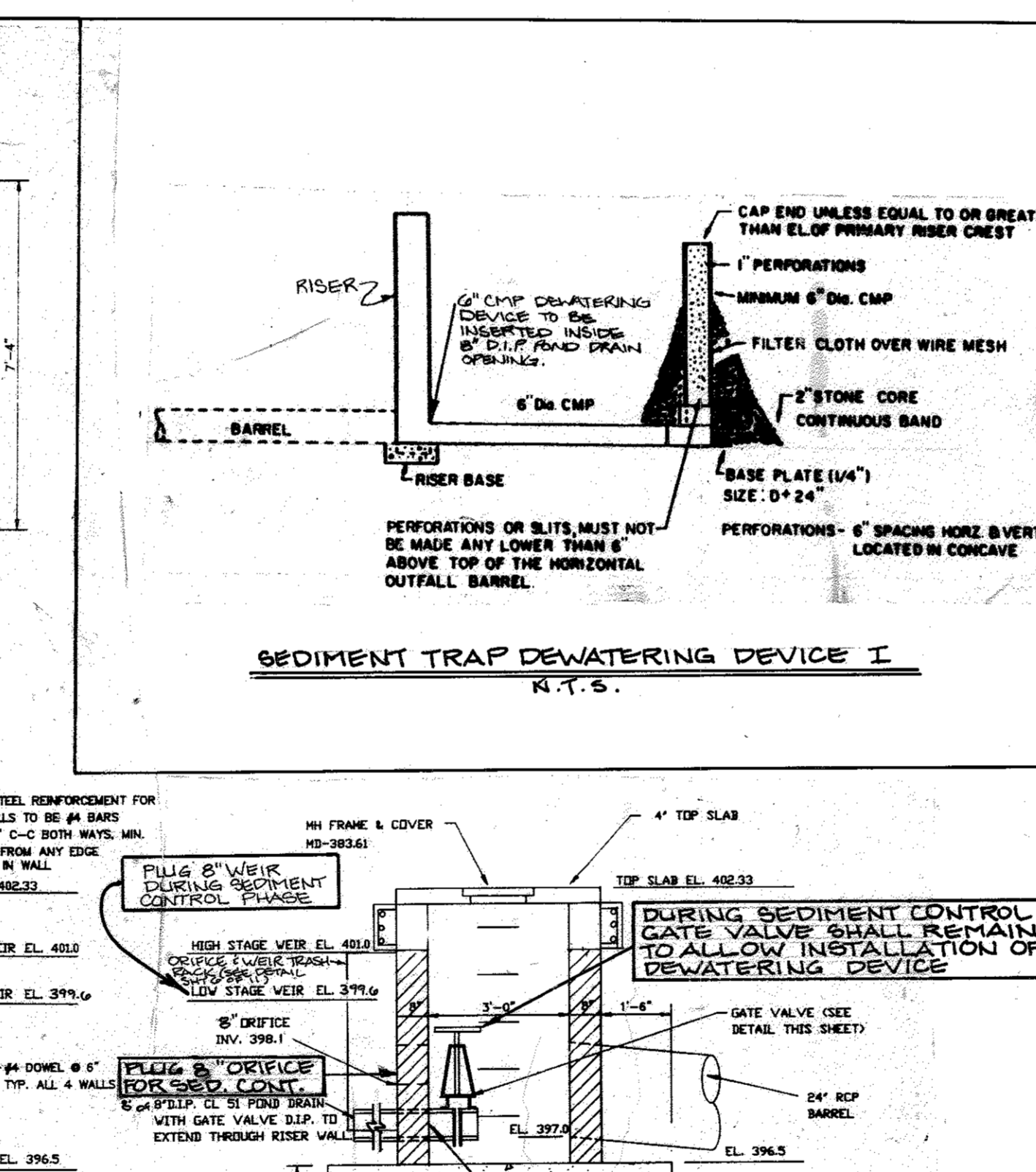
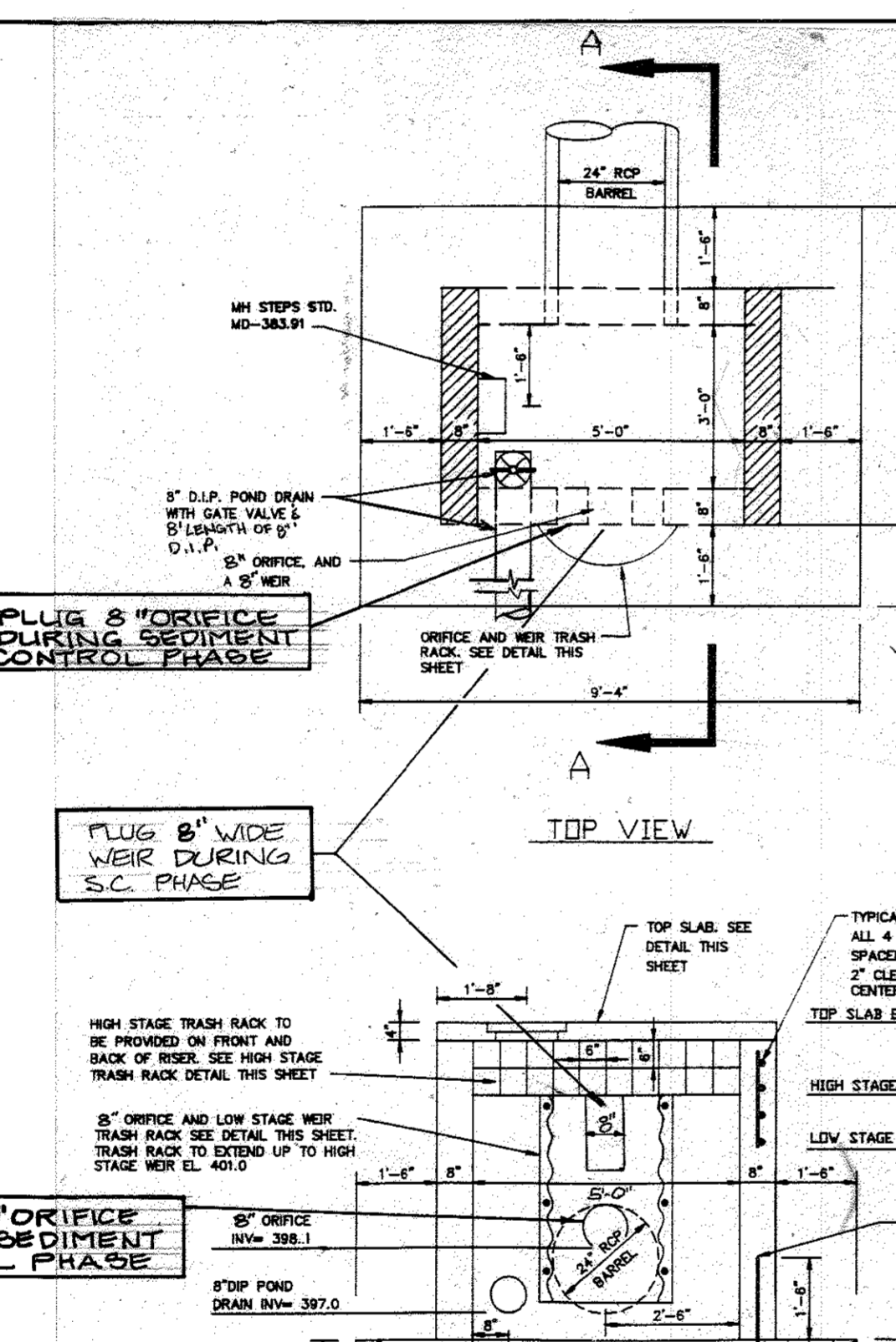
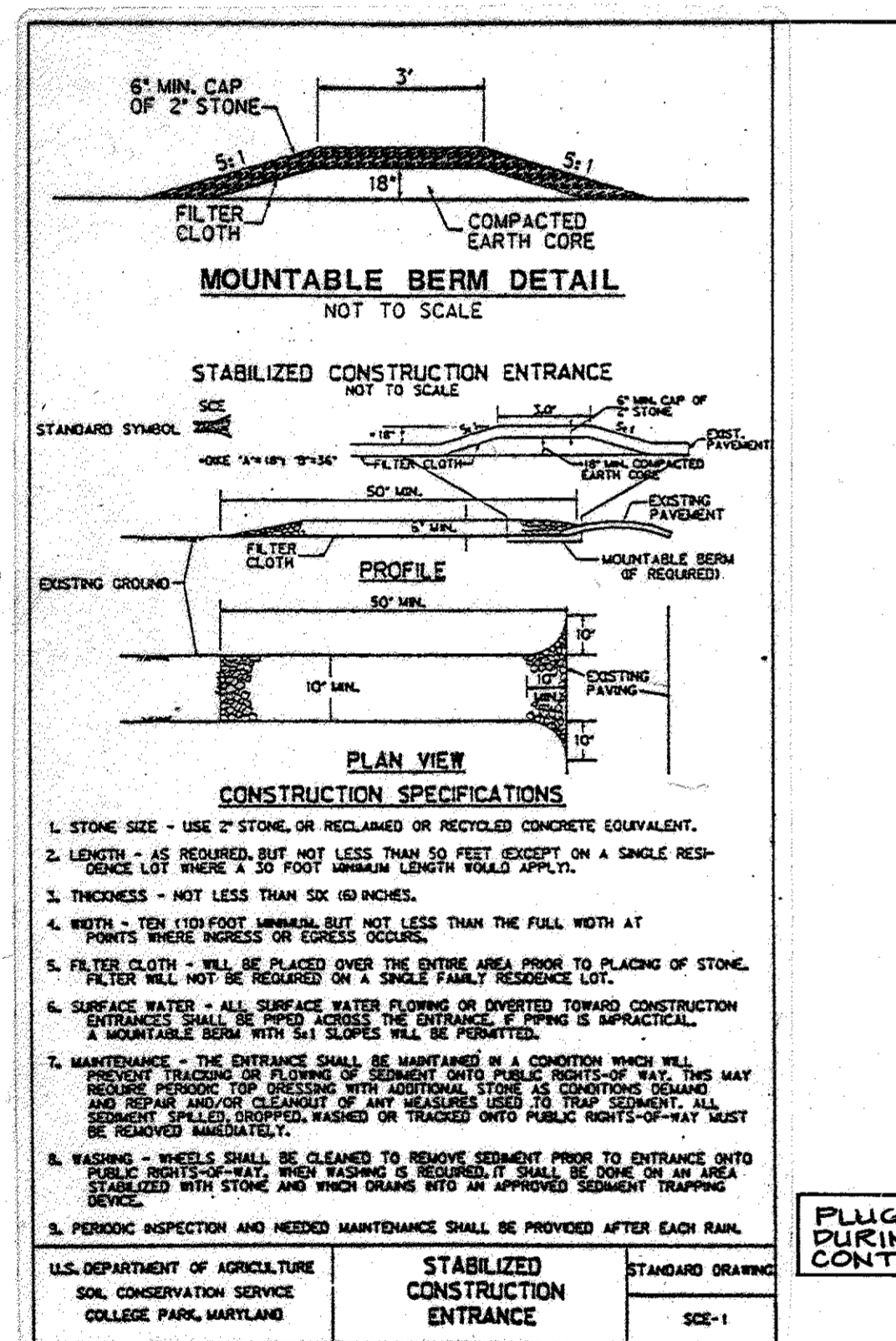
NOTES:

- DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A. 5 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL. B. 7 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

REAL TIMES OF SEEDING FOR TURFGRASS MIXTURES:
WESTERN MARYLAND: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 15 (HARDNESS ZONES 5B, 6A)
CENTRAL MARYLAND: MARCH 15 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES 6A, 6B)
SOUTHERN MARYLAND: MARCH 15 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES 7A, 7B)

SEE TABLE I (TEMPORARY SEEDING FOR STABILIZATION) LOCATED ON SHEET 10-3A.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Anna Summerville 5/18/94 DATE
DIRECTOR

Anna Summerville 5/18/94 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

REV. 5/29/94
DL5 REVISED PER ADDENDA NO. 1
RLV 5 REVISED PER RESOLVING REVISIONS
R-V 6 REVISED TO INCORPORATE PROPOSED IMPROVEMENTS ON PARCEL 250 AS SHOWN ON SDP-16-022
TO THE EXISTING BUILDING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James J. Lewis 5/18/94 DATE
DIRECTOR

Paul J. Egan 5/18/94 DATE
CHIEF BUREAU OF ENGINEERING

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

Clifford A. ... 5/18/94 DATE
COUNTY HEALTH OFFICER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Ruthie Engle 5/18/94 DATE
U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Clifford A. ... 5/18/94 DATE
HOWARD SOIL CONSERVATION DISTRICT

CERTIFICATE BY DEVELOPER

I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

David Rosenberg 9/21/93 DATE
SIGNATURE OF DEVELOPER
(PRINT NAME BELOW SIGNATURE)

ENGINEER CERTIFICATE

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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

B. C. Wilbally 8/23/93 DATE
SIGNATURE OF ENGINEER
(PRINT NAME BELOW SIGNATURE)

BY NO.	REVISION	DATE
DL5	REVISED PER ADDENDA NO. 1	5/29/94
DL5	REVISED PER RESOLVING REVISIONS	9/18/94
RLV	REVISED TO INCORPORATE PROPOSED IMPROVEMENTS ON PARCEL 250 AS SHOWN ON SDP-16-022	02/24/94
R-V	ADD PROPOSED CLASSROOM ADDITION	11/22/94

COUNTY HEALTH OFFICER	DATE
<i>Clifford A. ...</i>	5/18/94

ADDRESS CHART	BLDG	ADDRESS
		3070 HARRIET TUBMAN LANE

OWNER/DEVELOPER
BETH SHALOM CONGREGATION 60 DAVID EISENBERG COURT ELLICOTT CITY, MD 21042 (410) 461-5920

TEMPLE BETH SHALOM

SEDIMENT CONTROL DETAILS AND NOTES

SDP-94-31

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS

8300 PATUXENT RANGE ROAD
JESBUP, MARYLAND 20794-8000
PHONE: (301) 953-1821 (WASH.)
(410) 792-8086 (BALT.)

DATE: JULY 1993 SCALE: AS SHOWN

SHEET NO. 10 OF 12

SDP-94-31

KEY	QUAN	BOTANICAL NAME	SIZE	CAT
AR	2	ACER RUBRUM	2 1/2" - 3" CAL.	B & B
PB	3	FINIS STROBUS	6'-8" HT.	B & B

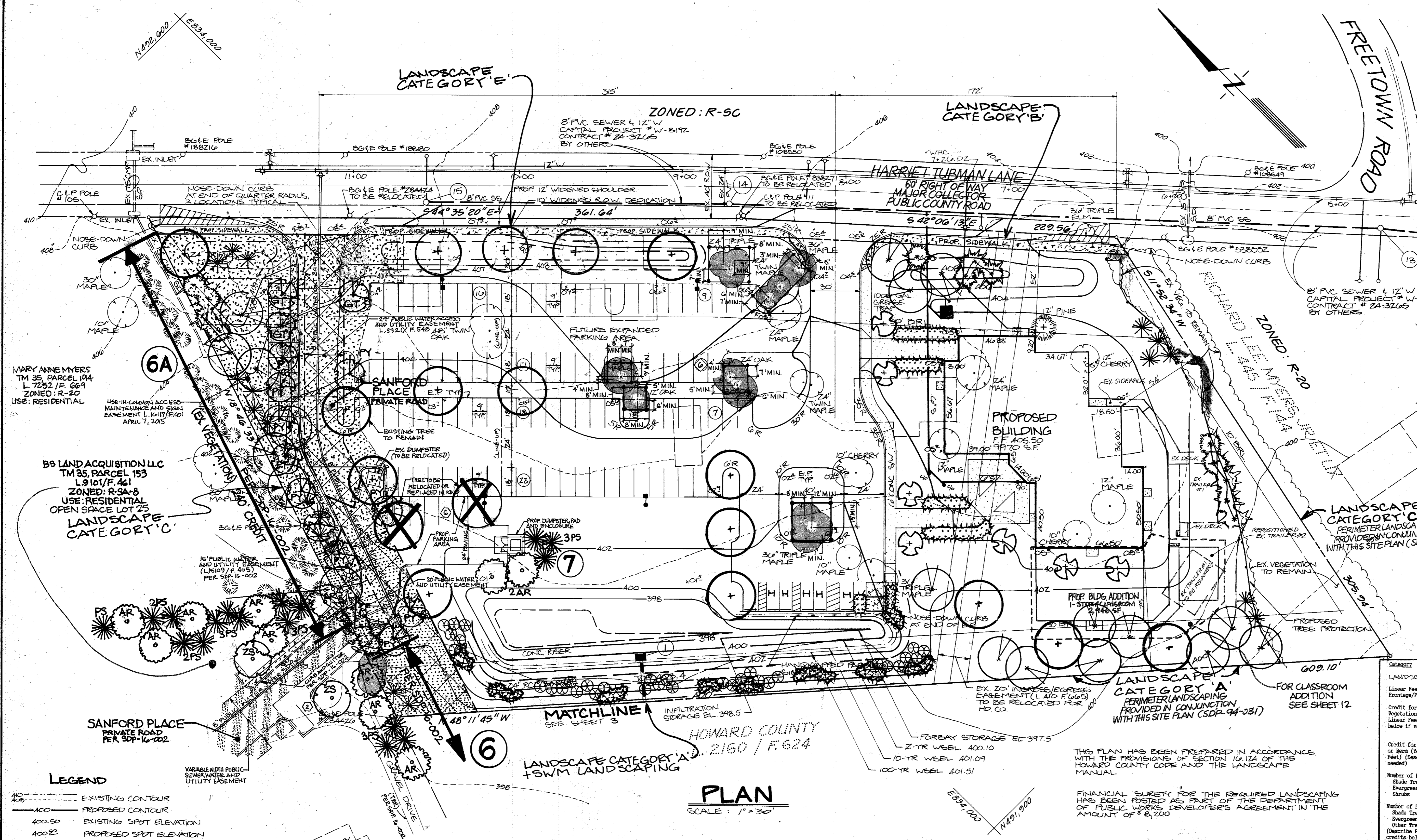
SCHEDULE A - PERIMETER LANDSCAPE EDGE					
CATEGORY	ADJACENT TO PERIMETER	DUMPSTER	ADJACENT TO PERIMETER	ADJACENT TO PERIMETER	TOTAL
PERIMETER/FRONTAGE DESIGNATION	PER LINEAR FOOT	PER LINEAR FOOT	PER LINEAR FOOT	PER LINEAR FOOT	PER 30' SPAN
LANDSCAPE TYPE	C	C	C	C	
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	240	270	46		
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES	240	No	No	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	NO	No	No	No	
NUMBER OF PLANTS REQUIRED (DESCRIBE BELOW IF NEEDED)	No	No	No	No	
SHADE TREES	1:40.0	1:40.7	1:40.2		2
EVERGREEN TREES	1:20.0	1:20.14	1:20.3		3
SHRUBS					
NUMBER OF PLANTS PROVIDED	0	7	2		3
SHADE TREES	0	7	2		3
EVERGREEN TREES	0	14	3		3
OTHER TREES (2:1 SUBSTITUTION)					
SHRUBS (2:1 SUBSTITUTION)					
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED					

NOTE: LANDSCAPE SURETY FOR PERIMETERS 6A & 6B HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT UNDER SDP-16-002.

SCHEDULE B	
PARKING LOT INTERNAL LANDSCAPING	
Number of Parking Spaces	108
Number of Trees Required	5.0
Number of Trees Provided	10 Shade 5 Existing Shade
Number of Trees (2:1 Substitution)	10 Shade 5 Existing Shade

SCHEDULE D	
STORMWATER MANAGEMENT AREA LANDSCAPING	
Linear Feet of Perimeter	350
Number of Trees Required	7 Shade 9 Evergreen
Number of Trees Provided	7 Shade 9 Evergreen
Credit for Existing Vegetation (No, Yes and %)	NO
Credit for Other Landscaping (No, Yes and %)	NO
Number of Trees Provided	None per SCS Regulations - Herbaceous material only on embankment 106 Grass

SCHEDULE A - PERIMETER LANDSCAPE EDGE					
Category	Adjacent to Roadway	Adjacent to Dumpster	Adjacent to Perimeter	Adjacent to Perimeter	Adjacent to Property
LANDSCAPE TYPE	E	B	C	A	C
Linear Feet of Roadway Frontage/Perimeter	390	150	305	610	340
Credit for Existing Vegetation (Yes, No, Linear Feet) Describe below if needed	5 Maples Existing	NO	Preserve Ex. Tree Buffer & Expand to 30' Wide	NO	2 Cherry Trees Exist.
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) Describe below if needed	3' High Berm	NO	NO	NO	NO
Number of Plants Req'd	10 Shade 3 Shade 0 Evergreen 0 Shrubs	3 Shade 0 Evergreen 0 Shrubs	8 Shade 11 Evergreen 0 Shrubs	10 Shade 10 Shade 0 Shrubs	7 Shade 17 Evergreen
Number of Plants Provided	5 Shade 0 Evergreen 0 Other Trees (2:1 Substitution)	3 Shade 4 Evergreen 11 Evergreen	11 Evergreen 10 Shade	10 Shade 17 Evergreen	7 Shade 17 Evergreen
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED					



- LEGEND**
- 400 --- EXISTING CONTOUR
 - 400 --- PROPOSED CONTOUR
 - 400.50 --- EXISTING SPOT ELEVATION
 - 400.50 --- PROPOSED SPOT ELEVATION
 - PROPOSED CURB & GUTTER
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED BUILDING
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED TREE PROTECTION
 - USE-IN-COMMON ACCESS MAINTENANCE AND SIGN EASEMENT L. 10/17/F. 001
 - 24" PUBLIC WATER ACCESS AND UTILITY EASEMENT L. 9/22/1/F. 540
 - VARIABLE WIDTH PUBLIC SEWER WATER AND UTILITY EASEMENT

NOTE:
1. SEE SDP-16-002 FOR CONTINUATION OF DEVELOPMENT OF PARCEL 153 AND LANDSCAPING.

THIS PLAN FOR LANDSCAPING ONLY

NOTE: FOR LANDSCAPE NOTES, DETAILS AND QUANTITIES SEE SHEET 4 OF 11.

BY	NO.	REVISION	DATE
DLS	5	REVISED PER REDLINE REVISIONS	9/18/94
RHV	6	REVISED TO INCORPORATE PROPOSED IMPROVEMENTS ON PARCEL 256 AS SHOWN ON SDP-16-002	02/24/95
RHV	6	ADD PROPOSED CLASSROOM ADDITION TO EXISTING BUILDING	11/22/96

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 5/18/94
 DIRECTOR DATE
[Signature] 5/18/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 5/16/94
 DIRECTOR DATE
[Signature] 5/13/94
 CHIEF BUREAU OF ENGINEERING DATE

CERTIFICATION BY THE DEVELOPER

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

[Signature] 9/21/93
 DEVELOPER'S SIGNATURE DATE
 DAVID ISENBERG

ADDRESS CHART

BLDG.	ADDRESS
	8070 HARRIETTUBMAN LANE

OWNER/DEVELOPER
 BETH SHALOM CONGREGATION
 c/o DAVID ISENBERG
 4721 EAGLESWING COURT
 ELICOTT CITY, MD 21042
 (410) 461-5920

PARCEL NO 250

PLAT NO OR L/F	BLOCK NO	ZONE	TAX/ZONE MAP/ELEC DIST	CENSUS TR
L. 2543 F. 380	24	R-20	35	5th 6050

WATER CODE E 29 SEWER CODE 5322500

TEMPLE BETH SHALOM

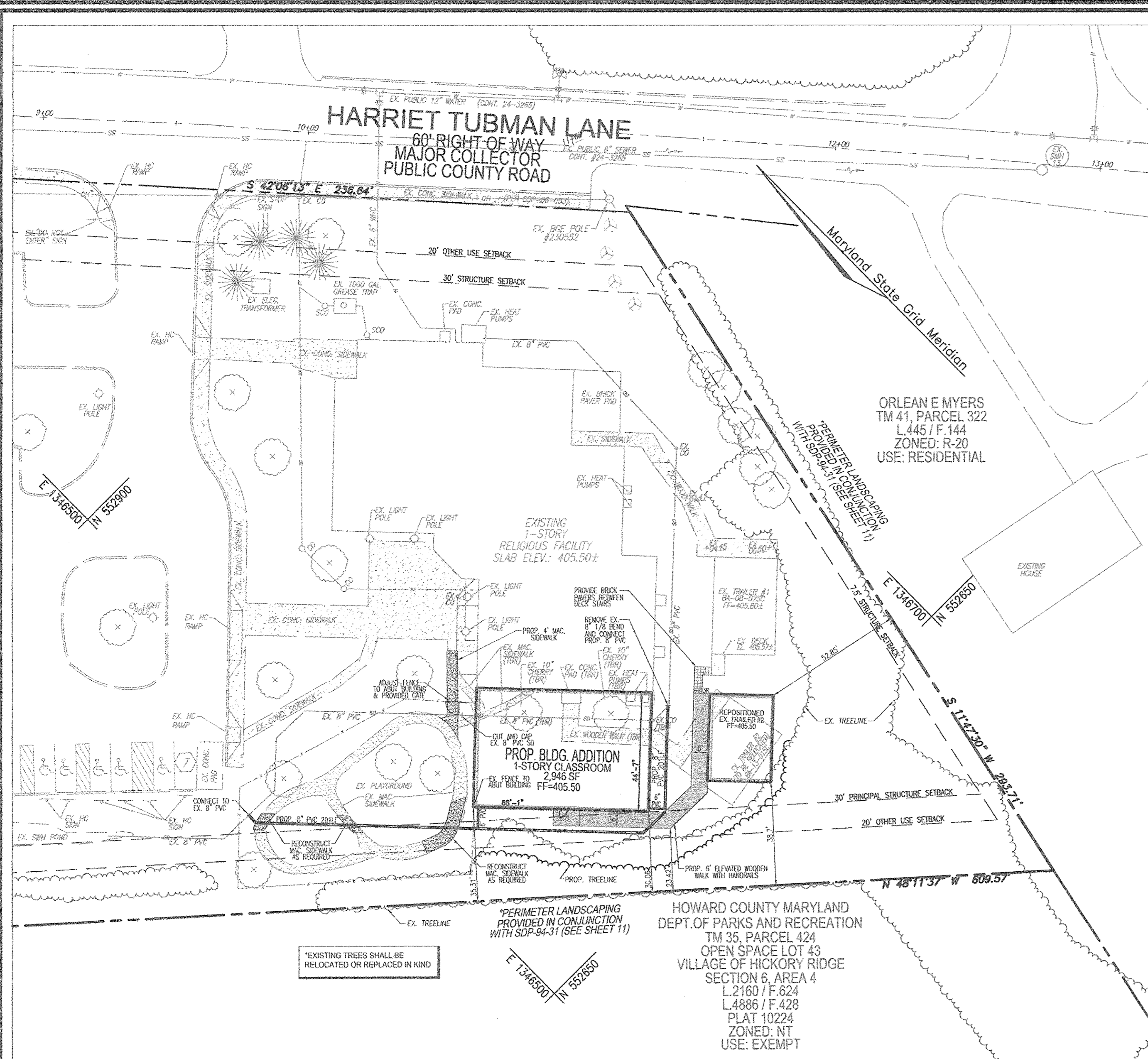
LANDSCAPE PLAN

SDP-94-31

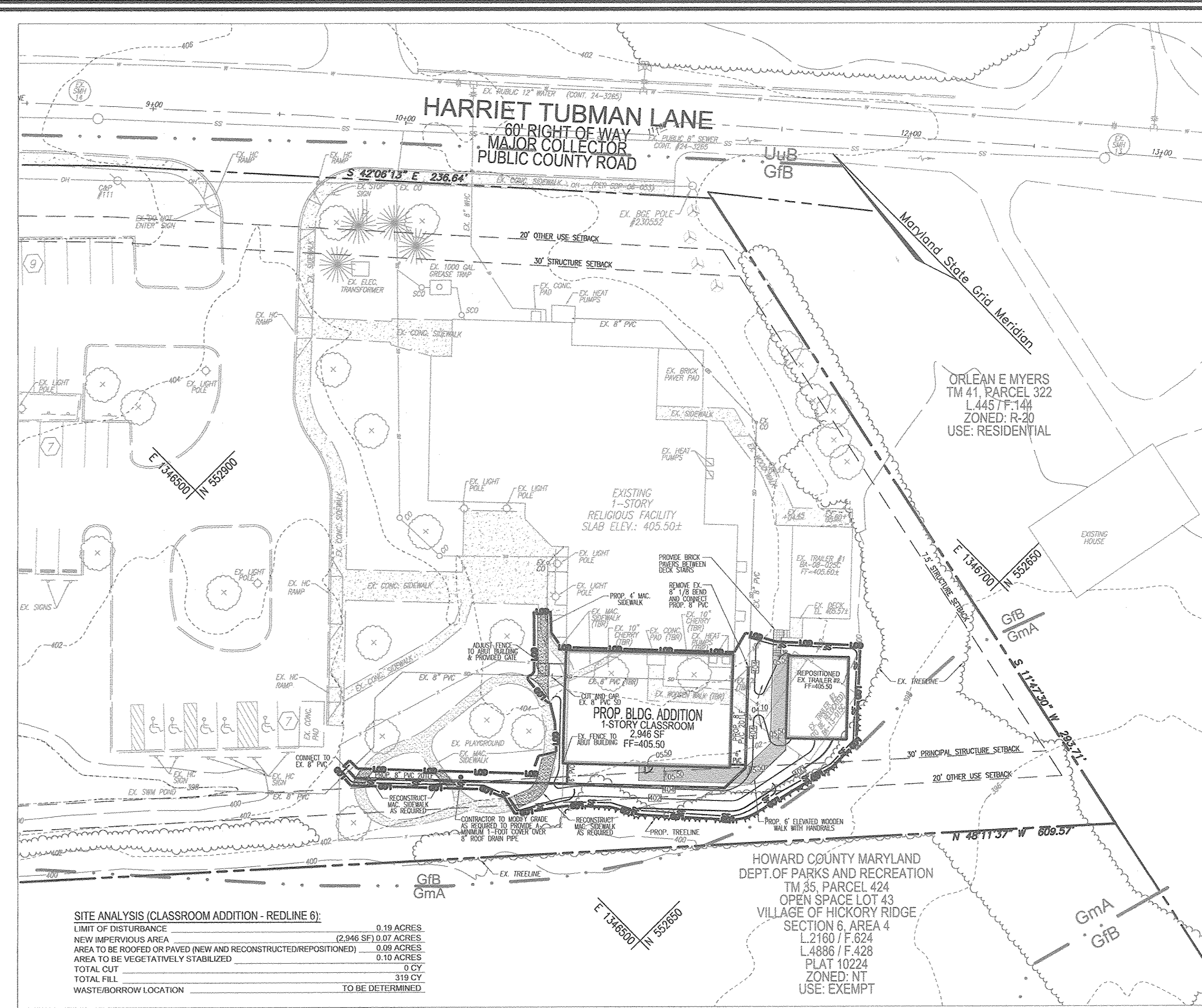
KCI TECHNOLOGIES, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 8308 PATENTUR RANGE ROAD
 JESSUP, MARYLAND 20794-8600
 PHONE: (301) 853-1821 (WASH.)
 (410) 782-8086 (BALT.)

DATE: JULY 1993 SCALE: 1"=30'

9/2/93 SHEET NO. 11 OF 12
 SDP-94-31



LAYOUT PLAN
SCALE: 1"=30'



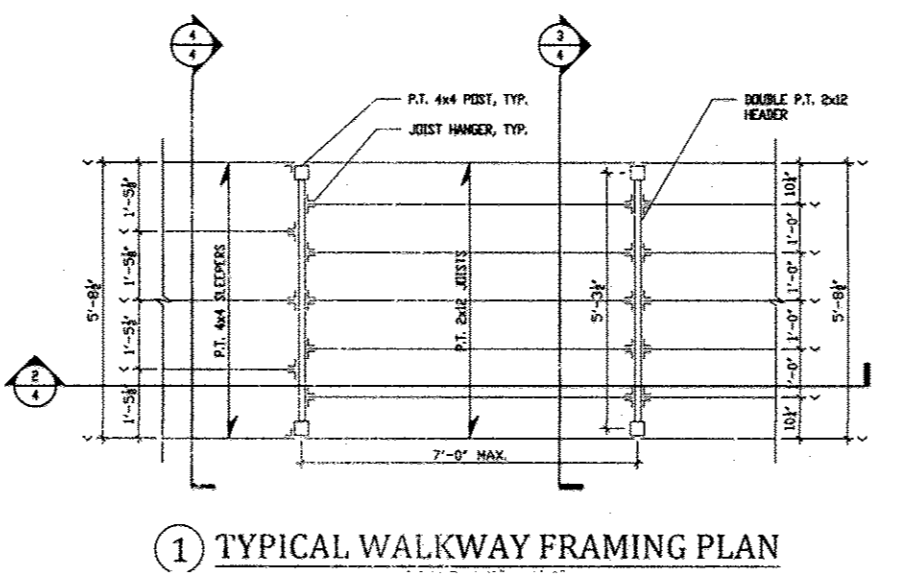
GRADING PLAN
SCALE: 1"=30'

SITE ANALYSIS (CLASSROOM ADDITION - REDLINE 6):

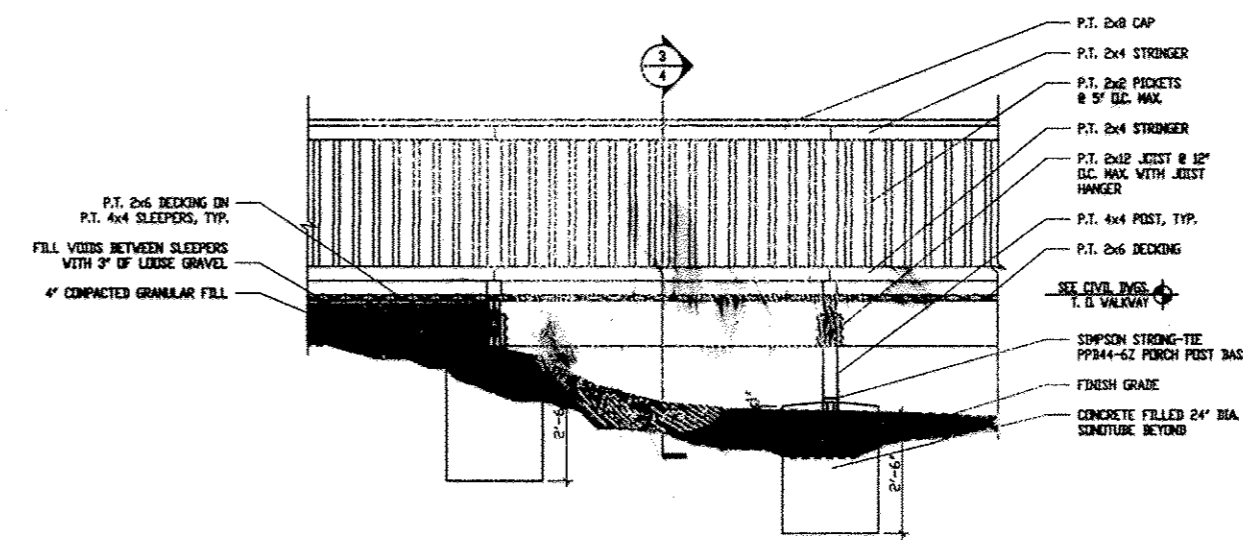
LIMIT OF DISTURBANCE	0.19 ACRES
NEW IMPERVIOUS AREA (2,946 SF) 0.07 ACRES	
AREA TO BE ROOFED OR PAVED (NEW AND RECONSTRUCTED/REPOSITIONED)	0.09 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.10 ACRES
TOTAL CUT	0 CY
TOTAL FILL	319 CY
WASTE/BORROW LOCATION	TO BE DETERMINED

IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES:
 WESTERN MD, MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDNESS ZONES: 5b, 6a)
 CENTRAL MD, MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES: 6b)
 SOUTHERN MD, MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES: 7a, 7b)

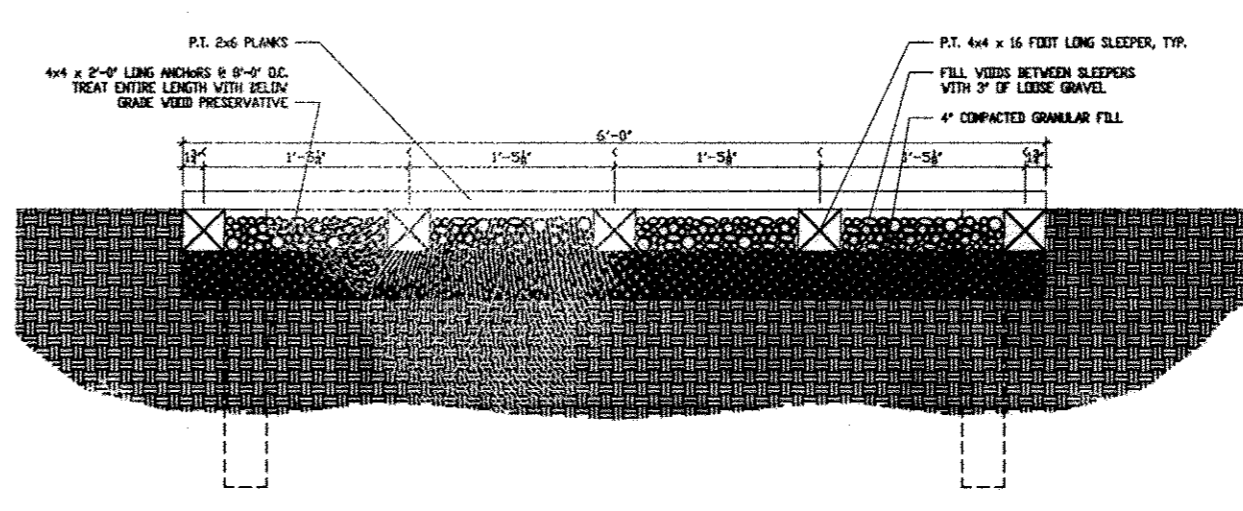
SEDIMENT CONTROL NOTES:
 1. DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN.
 2. FOLLOWING INITIAL SOIL DISTURBANCES OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DITCHES, SWALES, BENCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND
 B. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.



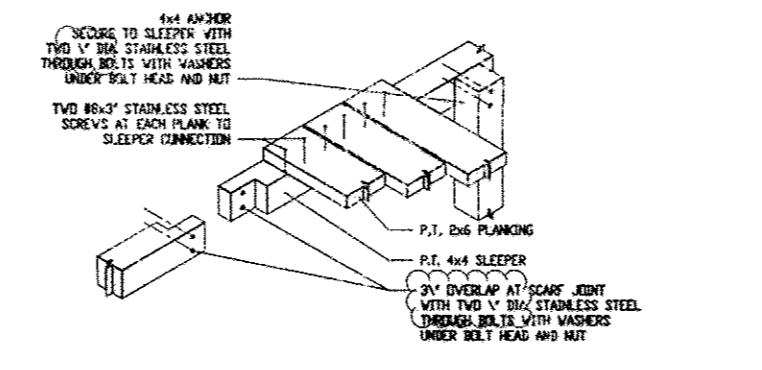
(1) TYPICAL WALKWAY FRAMING PLAN



(2) TYPICAL WALKWAY SECTION



(3) SECTION AT WALKWAY ON GRADE



(4) SECTION AT WALKWAY ON GRADE

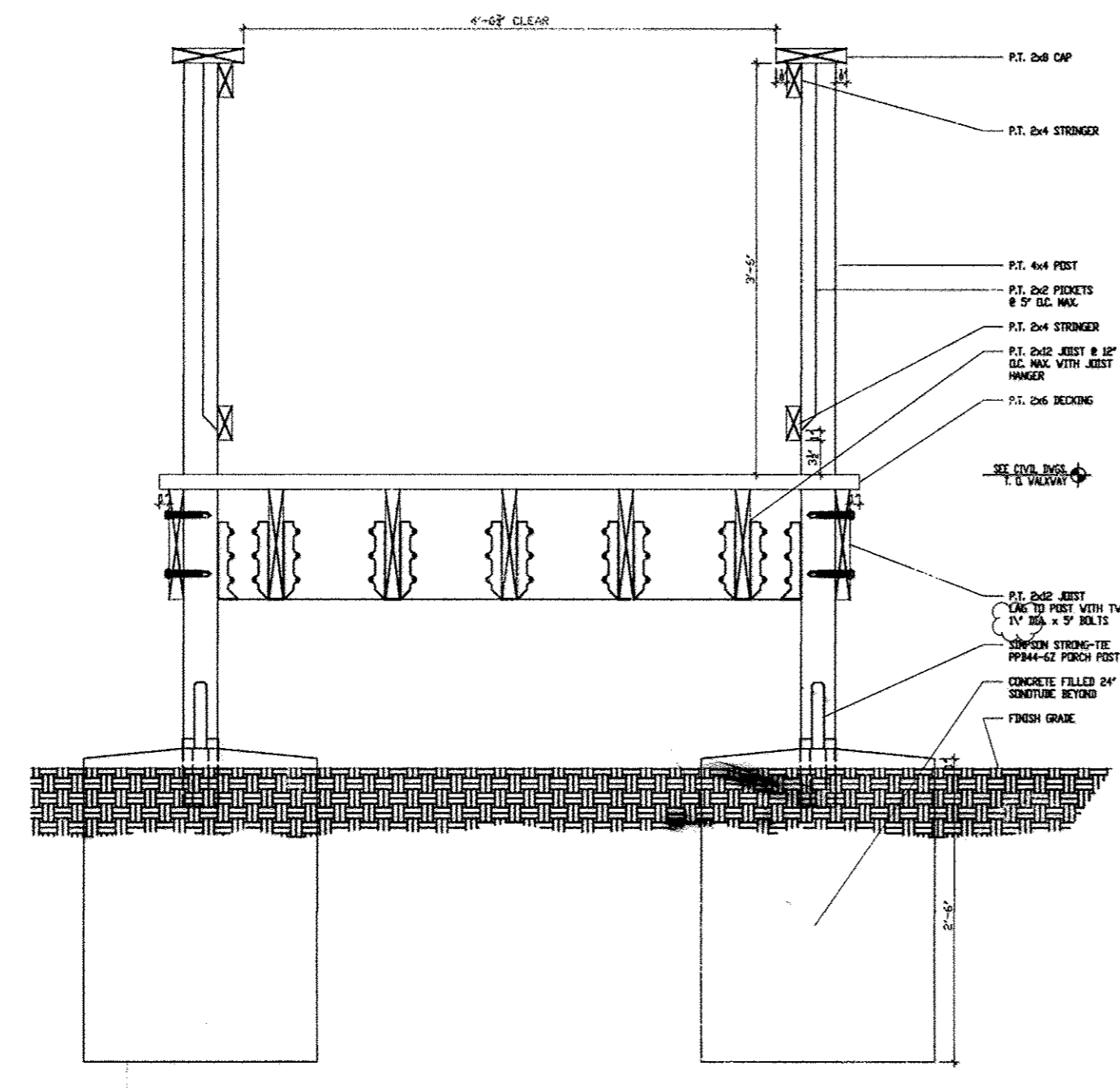
EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM EXISTING SITE DEVELOPMENT PLANS, FIELD SURVEYS, AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION ONLY.

CONTRACTOR SHALL TEST PIT TO VERIFY EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES TO MAINTAIN UNINTERRUPTED SERVICE AND TO PROVIDE REQUIRED CLEARANCES FOR ALL PROPOSED UTILITIES. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

SCALE: 1"=30'

LEGEND:

EXISTING CONTOUR	EXISTING TIE LINE
PROPOSED CONTOUR	EXISTING FENCE
PROPOSED SPOT ELEVATION	PROPERTY LINE
EXISTING SPOT ELEVATION	RIGHT-OF-WAY LINE
EXISTING CURB AND GUTTER	PROPOSED ELEVATED WOODEN WALK
EXISTING CURB AND GUTTER	PROPOSED MACADAM SIDEWALK
EXISTING UTILITY POLE	PROPOSED BRICK PAVEMENT
EXISTING MANHOLE	SOILS BOUNDARY
EXISTING SANITARY MANHOLE	PROPOSED TIE LINE
EXISTING UTILITY POLE	SELF FENCE
EXISTING SANITARY MANHOLE	LIMIT OF DISTURBANCE
EXISTING CLEANOUT	
EXISTING FIRE HYDRANT	
EXISTING WATER LINE	
PROPOSED STORM DRAIN	



(3) TYPICAL WALKWAY SECTION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 4-5-17
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 4-10-17
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 4-10-17
 DIRECTOR DATE

OWNER:
 TEMPLE BETH SHALOM
 OF HOWARD COUNTY
 8070 HARRIET TUBMAN LANE
 COLUMBIA, MD. 21044

7	ADD DETAIL FOR ELEVATED WALK	02/06/19
6	ADD PROPOSED CLASSROOM ADDITION TO THE EX BUILDING	11/22/16
NO.	REVISION	DATE

SITE DEVELOPMENT PLAN

CLASSROOM ADDITION PLAN

TEMPLE BETH SHALOM
 RELIGIOUS FACILITY
 L. 25481F. 388

TAX MAP 35 BLOCK 24
 5TH ELECTION DISTRICT

PARCEL 256
 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
 ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET
 ELICHTT CITY, MD 21043 TEL: 410.461.7666
 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

DESIGN BY: RHV/GAH/DZE
 DRAWN BY: GAH/KG/DZE
 CHECKED BY: RHV
 DATE: FEBRUARY 2017
 SCALE: AS SHOWN
 W.O. NO.: 16-07

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE 08-27-2018

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