SHEET INDEX

1. COVER SHEET
2. OPEN SPACE PATHWAY LAYOUT
3. SEDIMENT CONTROL & CONSTRUCTION DETAIL SHEET
4. BRIDGE DETAIL SHEET.

OAKLAND RIDGE INDUSTRIAL PARK
OPEN SPACE MASTER PLAN

COLUMBIA PARK AND RECREATION ASSOCIATION

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

DIRECTOR — DATE 4/1/92

CHIEF, BUREAU OF ENGINEERING — DATE 4-1-92 JH

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR — DATE 4/14/92

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 4/10/92

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

COUNTY HEALTH ~~DEPARTMENT~~ OFFICER — DATE 4/6/92

APPROV...
PLANN...
of H...
DATE 6.25.91

GENERAL NOTES

TOPOGRAPHY SHOWN ON THIS DRAWING HAS BEEN TRACED FROM TOPOGRAPHIC SURVEYS AND MAPS PREPARED BY HOWARD COUNTY. THE OWNER OR ARCHITECT DO NOT IN ANY WAY GUARANTEE THE INFORMATION SHOWN HEREON, NOR DOES ANY INFORMATION SHOWN OR LACK THEREOF RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR CORRECT AND PROPER COMPLETION OF GRADING.

ALL TREES 12" IN DIAMETER OR GREATER SHALL REMAIN PROTECTED AND UNDAMAGED AT ALL TIMES.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.

ADJUSTMENTS TO THE SEQUENCE OF CONSTRUCTION SHALL BE APPROVED BY THE HOWARD COUNTY SEDIMENT CONTROL DIVISION PRIOR TO SUCH ADJUSTMENTS.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL COMPLY WITH SEDIMENT CONTROL NOTES AS DOCUMENTED ON THESE PLANS.

EXISTING UTILITIES ARE NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.

9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS.

"MILL UTILITY"	1-(800) 257-7777
BALTIMORE GAS & ELECTRIC COMPANY	(301) 234-5691
C & P TELEPHONE COMPANY	(301) 393-3648

IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.

11. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR CONSTRUCTION.

12. ALL UTILITIES ARE TO BE RETAINED UNLESS MARKED OTHERWISE AND APPURTENANCES ARE TO BE ADJUSTED TO FINISHED GRADE.

13. THE CONTRACTOR SHALL REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN THE LIMIT OF CONSTRUCTION ARE STABILIZED. AT THAT POINT, ALL SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND AREAS RESTORED AND STABILIZED UPON APPROVAL BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

14. THE MEASURES REQUIRED IN THE APPROVED SEDIMENT CONTROL PLAN SHALL APPLY AS IF SHOWN ON ALL PLANS.

15. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 992-2417 OR 992-2418.

16. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENT, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.

17. PRIOR TO START OF ANY CONSTRUCTION, CONTRACTOR SHALL STAKEOUT ALL CONSTRUCTION AND VERIFY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL) AND DIMENSIONS.

18. CONTRACTOR SHALL USE DIMENSIONS SHOWN. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY CIVIL ENGINEER.

19. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.

20. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

21. THE DEVELOPER MUST REQUEST THAT THE DEPARTMENT OF INSPECTIONS AND PERMITS APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.

22. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE DEPARTMENT OF INSPECTIONS AND PERMITS SHALL BE REQUIRED ON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE DEPARTMENT OF INSPECTIONS AND PERMITS IS GIVEN.

23. APPROVAL SHALL BE REQUESTED ON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF CONTROLS.

24. ANY DAMAGE TO COUNTY RIGHTS-OF-WAY AND PAVING OF PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND STANDARDS.

25. ALL FILL SHALL BE ROLLED TO A MINIMUM DEGREE OF COMPACTION OF 95% OF THE DRY UNIT WEIGHT AS DETERMINED BY ASTM D-698.

26. ALL CONCRETE FOR SITE WORK SHALL BE CLASS 2 CONCRETE AND SHALL BE IN ACCORDANCE WITH THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS AS AMENDED TO DATE.

27. STRUCTURES NOTED FOR REMOVAL SHALL BE REMOVED ENTIRELY AND COMPLETELY. REMOVAL OF UTILITIES OR MATERIALS THAT ARE BELOW GRADE SHALL HAVE THE SURFACE ABOVE RESTORED TO MATCH ADJACENT GRADES.

28. ALL DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT SEED AND MULCH IN ... APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

29. THE DEVELOPER RECIEVED APPROVAL OF WAIVER WP-91-173 ON JUNE 5,1991 FROM THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.116c6. THIS WAIVER IS FOR PERFORMING PATHWAY CONSTRUCTION WITHIN WETLANDS, ... WETLAND BUFFERS, AND 75' STREAM BUFFERS.

30. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLAND OR STREAM BUFFERS EXCEPT AS APPROVED PER WAIVER PETITION, WP-91-173.

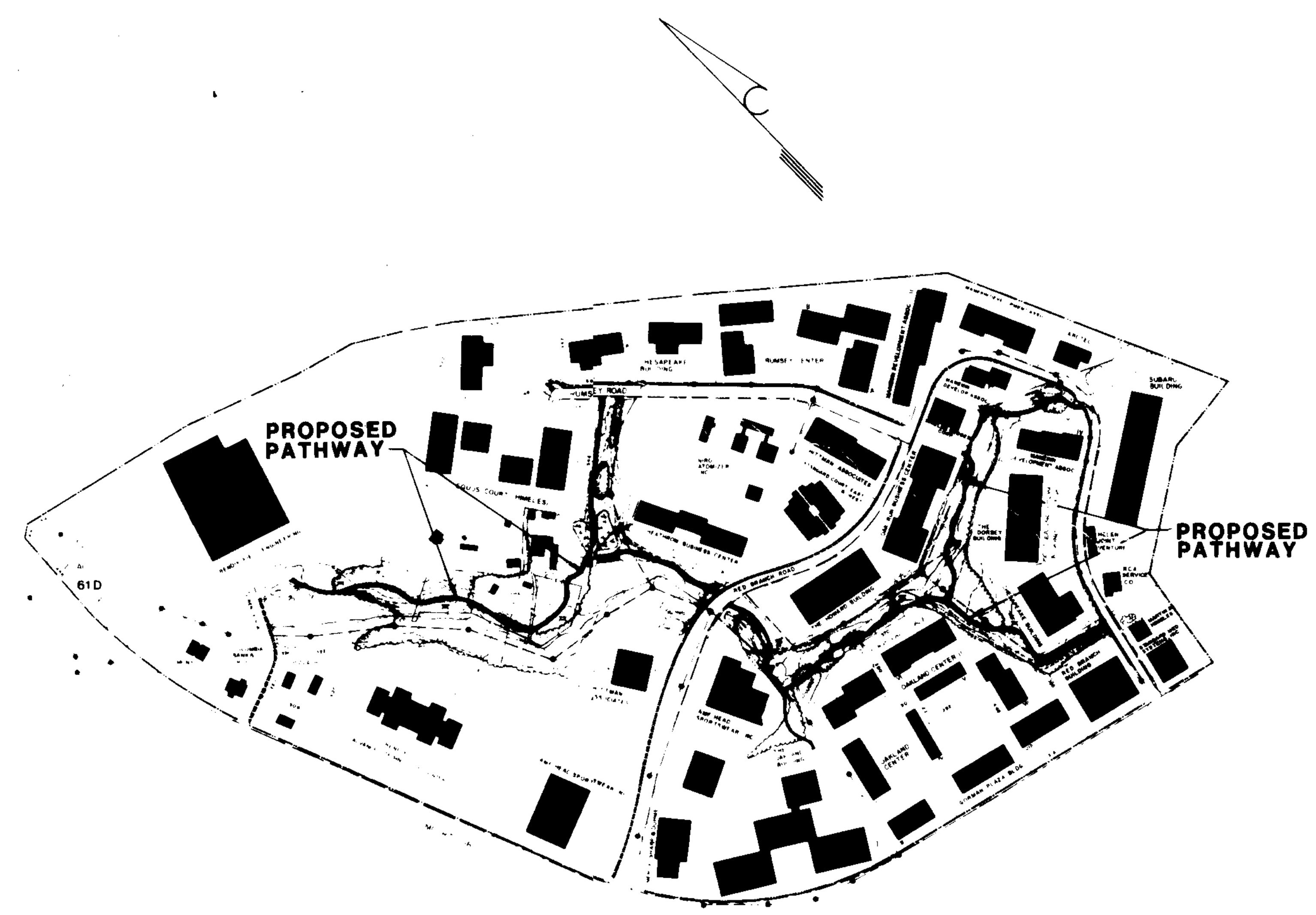
31. APPLICABLE DEPARTMENT OF PLANNING AND ZONING FILES: F-91-100, FDP-36A, WP-91-91, ..., SDP-85-9..., SDP-88-39c, SDP-88-132, SDP-89-74, F-90-120, SDP-90-176, FDP-25-A-II, FDP-3, FDP-1, FDP-36, SDP-91-77, F-79-117, SDP-80-133, SDP-81-39, SDP-88-39, SDP-89-74, SDP-81-306, SDP-83-78.

32. ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HSCD DATED 3/2/87, & REVISED MAY 1991.

33. A WAIVER HAS BEEN APPROVED FOR STORMWATER MANAGEMENT QUANTITY AND QUALITY CONTROL.

34. 401 PERMIT REF #: 89-WQ-0647; 404 REF # 89-2619-3; DNR REF # 89-WC-0940

35. PATHWAY USE RESTRICTIONS: NO MOTORIZED VEHICLES. HOWARD COUNTY POLICE TO PROVIDE ENFORCEMENT.



MASTER PLAN

SCALE: 1"-600'

GENERAL PLAN NOTE:

THESE PLANS WERE PREPARED FOR PATHWAY CONSTRUCTION ONLY. THESE PLANS WERE PREPARED FOR THE COLUMBIA PARK AND RECREATION ASSOCIATION. ALL SITE PLAN REQUIREMENTS WERE BASED ON PREVIOUS MEETINGS AND AGREEMENTS AS DOCUMENTED PER THE ENCLOSED CORRESPONDENCE. PLEASE CONTACT THE HOWARD COUNTY DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT FOR MODIFICATIONS TO THE STANDARD S.D.P. PROCESS FOR C.A.'s PATHWAYS.

OWNER/DEVELOPER

COLUMBIA PARK & RECREATION ASSOCIATION
9861 BROKEN LAND PARKWAY
SUITE 300
COLUMBIA, MD. 21046
PHONE: (301) 381-0020

ADDRESS CHART

BUILDING	STREET ADDRESS
	9180 Red Branch Road

SUBDIVISION NAME			SECT/AREA		LOT/PARCEL
OAKLAND RIDGE INDUSTRIAL PARK			1-3		[illegible]
PLAT	BLOCK	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
SEE GENERAL NOTE # 31	17+18	8E	[illegible]	2	6023.02
WATER CODE N/A			SEWER CODE N/A		

RESPONSIBLE PERSONNEL CERTIFICATION

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

SIGNATURE OF DEVELOPER — DATE 1/27/92
DENIS ELLIS

CERTIFICATION BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS.

SIGNATURE OF ENGINEER — DATE 01-28-92
VIJAY BALUSU

CERTIFICATION BY THE DEVELOPER

"I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZATION AGENTS, AS DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 1/27/92
DENIS ELLIS

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

APPROVED: HOWARD S.C.D. — DATE 2/12/92

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

APPROVED: U.S. SOIL CONSERVATION SERVICE — DATE 2/12/92

STATE OF MARYLAND — VIJAY BALUSU — No. 18044 REGISTERED — PROFESSIONAL ENGINEER

VIJAY BALUSU P.E.
MD. NO. 18044

REVISIONS		
NO.	DESCRIPTION	DATE

PREPARED BY:
KCI TECHNOLOGIES, INC.
ENGINEERS · PLANNERS · SURVEYORS
13992 BALTIMORE AVENUE / SUITE 300
LAUREL, MD. 20707
PHONE: (301) 792-8086

COVER SHEET

OAKLAND RIDGE
INDUSTRIAL PARK
OPEN SPACE MASTER PLAN

SCALE: AS SHOWN	
DRAWN: PZ	CHECKED: SDH
PROJ. NO.: 1687108C	DATE: MARCH '92
SHEET 1	OF 4

SDP-91-105

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

DIRECTOR — 4/1/92 — DATE

CHIEF BUREAU OF ENGINEERING — 4-1-92 — DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

4/14/92

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 4/10/92 — DATE

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

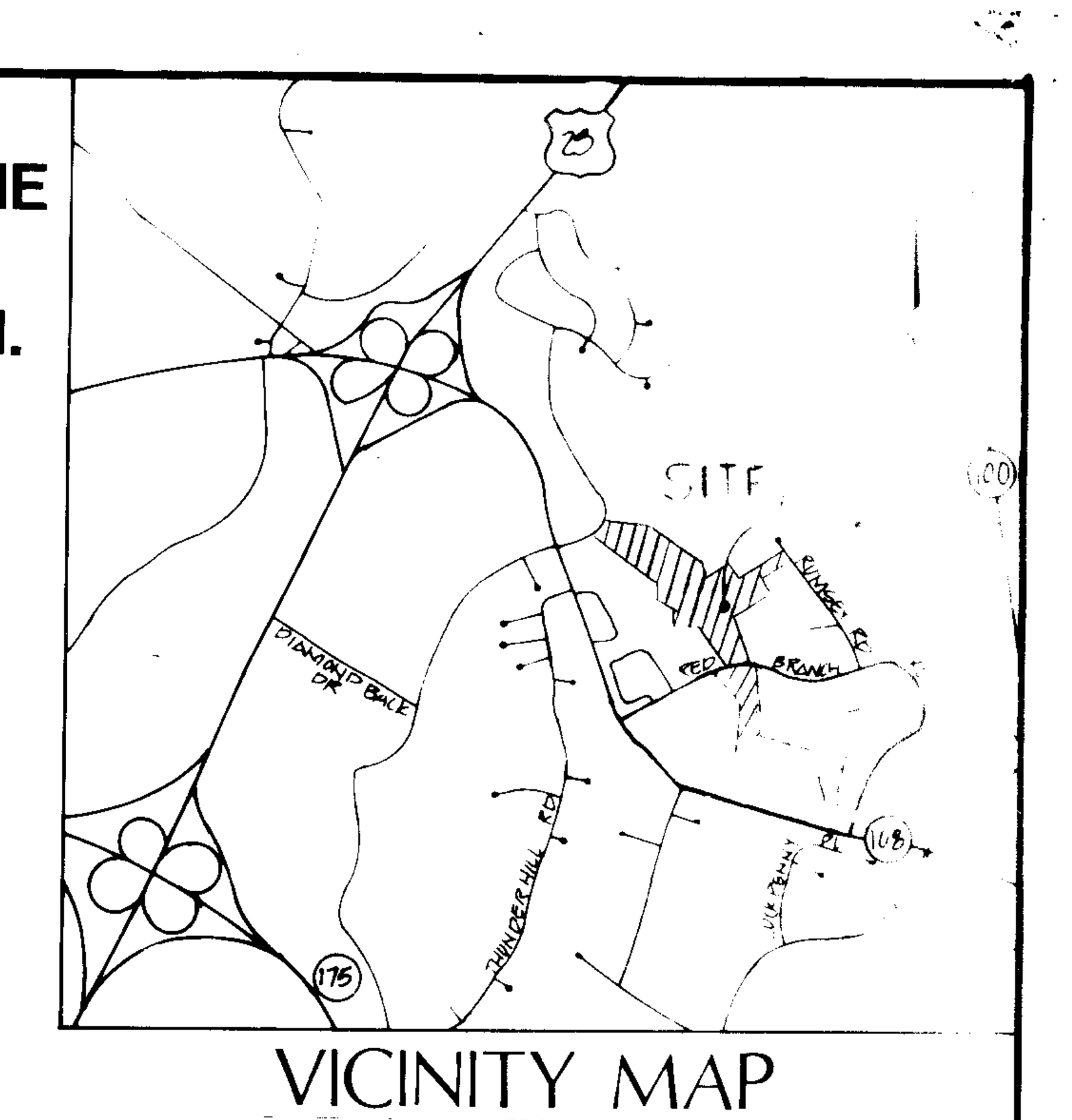
COUNTY HEALTH OFFICER — 4/6/92 — DATE

APPROVED
PLANNING BOARD
DATE 6-25-91

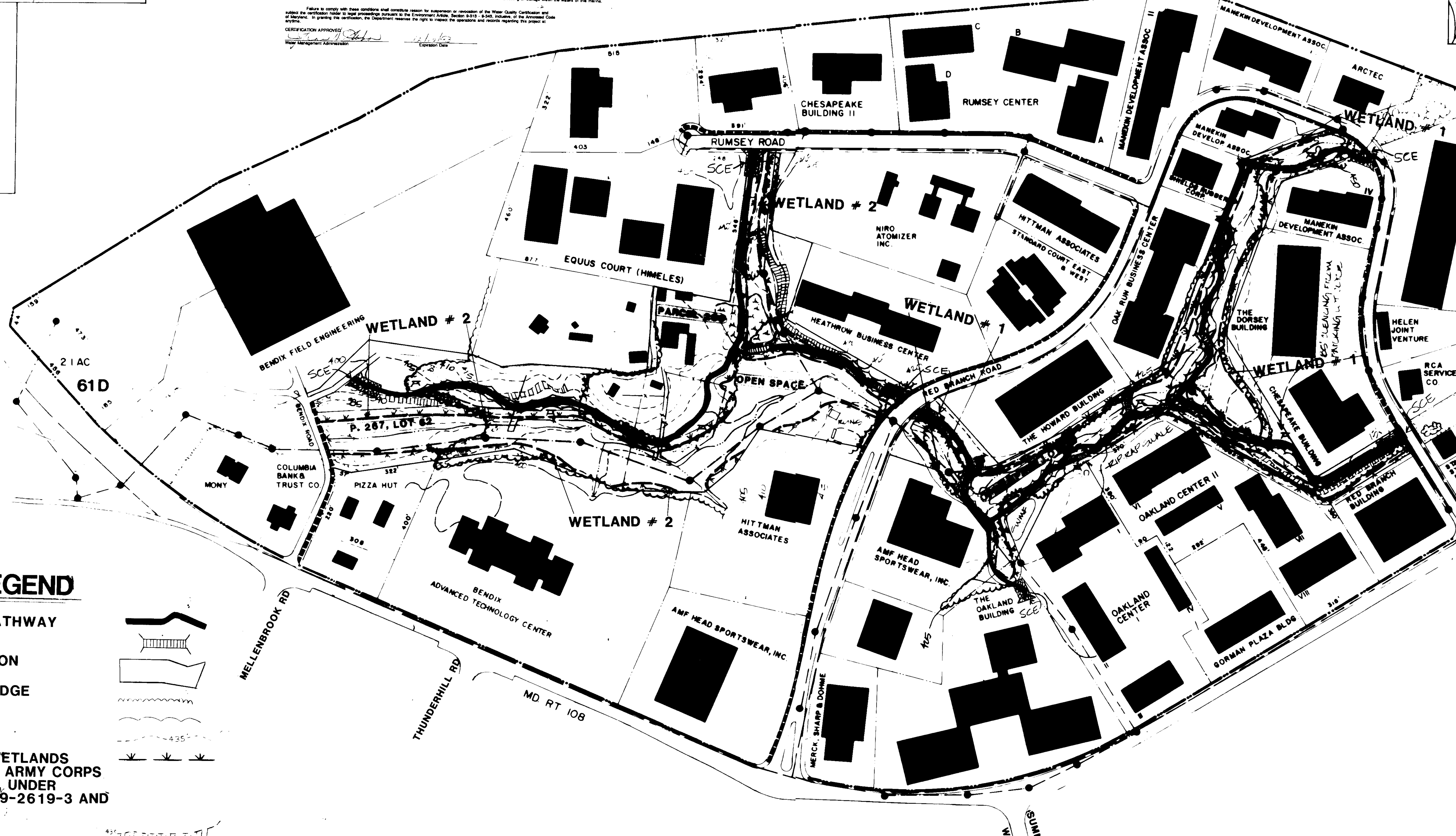
Water Quality Certification

CERTIFICATION APPROVED — Water Management Administration — Expiration Date

NOTE: ONLY A 10' WIDE CONSTRUCTION STRIP WILL BE USED FOR PATHWAY CONSTRUCTION. THEREFORE THE LIMIT OF DISTURBANCE IS 5' FROM THE PATHWAY CENTERLINE ON BOTH SIDES OF THE PROPOSED PATH.



VICINITY MAP
SCALE: 1"=2000'



PLAN 1"=200'

LEGEND

PROPOSED 6.0 FT. PATHWAY
PROPOSED BRIDGE
COLUMBIA ASSOCIATION OPEN SPACE
EXISTING TREELINE (EDGE OF WOODS)
PROPOSED TREELINE
EXISTING CONTOUR
LIMIT OF NON-TIDAL WETLANDS (AS APPROVED BY THE ARMY CORPS OF ENGINEERS IN 1990, UNDER NATIONWIDE PERMIT # 89-2619-3 AND 89-WQ-0647)
STEEP SLOPES 20% OR GREATER SLOPES
STABILIZED CONSTRUCTION ENTRANCE
25' WETLAND BUFFER LIMIT

OWNER/DEVELOPER
COLUMBIA PARKS & RECREATION
10861 BROKEN LAND PARKWAY
SUITE 300
COLUMBIA, MD 21046
PHONE (301) 381-0020

ADDRESS CHART

BUILDING	STREET ADDRESS
	9180 Red Branch Road

BLOCK 17118 — 6023.02

WATER CODE — SEWER CODE

CERTIFICATION BY THE ENGINEER
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS."
SIGNATURE OF ENGINEER — VIJAY BALUSU — 01-28-92 — DATE

CERTIFICATION BY THE DEVELOPER
"I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZATION AGENTS, AS DEEMED NECESSARY."
SIGNATURE OF DEVELOPER — DENIS ELLIS — 1/27/92 — DATE

SIGNATURE OF DEVELOPER — DENIS ELLIS — 1/27/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — 2/10/92 — DATE
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
APPROVED: U.S. SOIL CONSERVATION SERVICE — 2/10/92

STATE OF MARYLAND — VIJAY BALUSU — REG. NO. 18044

REVISIONS

NO.	DESCRIPTION	DATE

PREPARED BY
KCI TECHNOLOGIES, INC.
ENGINEERS · PLANNERS · SURVEYORS
13992 BALTIMORE AVENUE / SUITE 300
LAUREL, MD. 20707
PHONE - (301) 792-8086

OAKLAND RIDGE INDUSTRIAL PARK
OPEN SPACE MASTER PLAN

SCALE — DRAWN — PROJ. NO. — DATE — SHEET

SDP 91-105

SEDIMENT AND EROSION CONTROL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (880-3450)
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS TO THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN: A) SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND B) FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASIN SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOLUME 1, CHAPTER 12 OF HOWARD COUNTY DESIGN MANUAL STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SED. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNRY SEDIMENT CONTROL INSPECTOR.
7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
9. ON ALL SITES, DISTURBED AREAS IN EXCESS OF 2 ACRES APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

REFER TO "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR THE SOIL EROSION AND SEDIMENT CONTROL" FOR THE STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.

WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD SOIL CONSERVATION DISTRICT.

ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD SOIL CONSERVATION DISTRICT FOR APPROVAL.

DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL PP 62.01 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR JUST CONTROL.

ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.

ANY DISTURBED EARTH LEFT IDLE FOR PERIODS EXCEEDING 30 DAYS SHALL BE STABILIZED ACCORDING TO TEMPORARY STABILIZATION SPECIFICATIONS.

AT THE END OF EACH WORKING DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.

~~AT THIS TIME, WE BELIEVE THAT SECTIONS 404 OR 401 OF THE CLEAN WATER ACT DO NOT EFFECT OUR SITE.~~

THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.

SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK.

APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/APPLICANT FROM COMPLYING WITH ANY FEDERAL/STATE/COUNTY REQUIREMENTS APPERTAINING TO ENVIRONMENTAL ISSUES.

SEDIMENT CONTROL

... FOLLOWING CERTIFICATION BLOCKS ON SEDIMENT CONTROL PLANS:

"I CERTIFY THAT ALL DEVELOPMENT AND OR 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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE THE BEGINNING OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DENIS ELLIS — DATE

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: LIEU OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES.

1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LB. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.)
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRY JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./100 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS /ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

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

SEEDBED PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

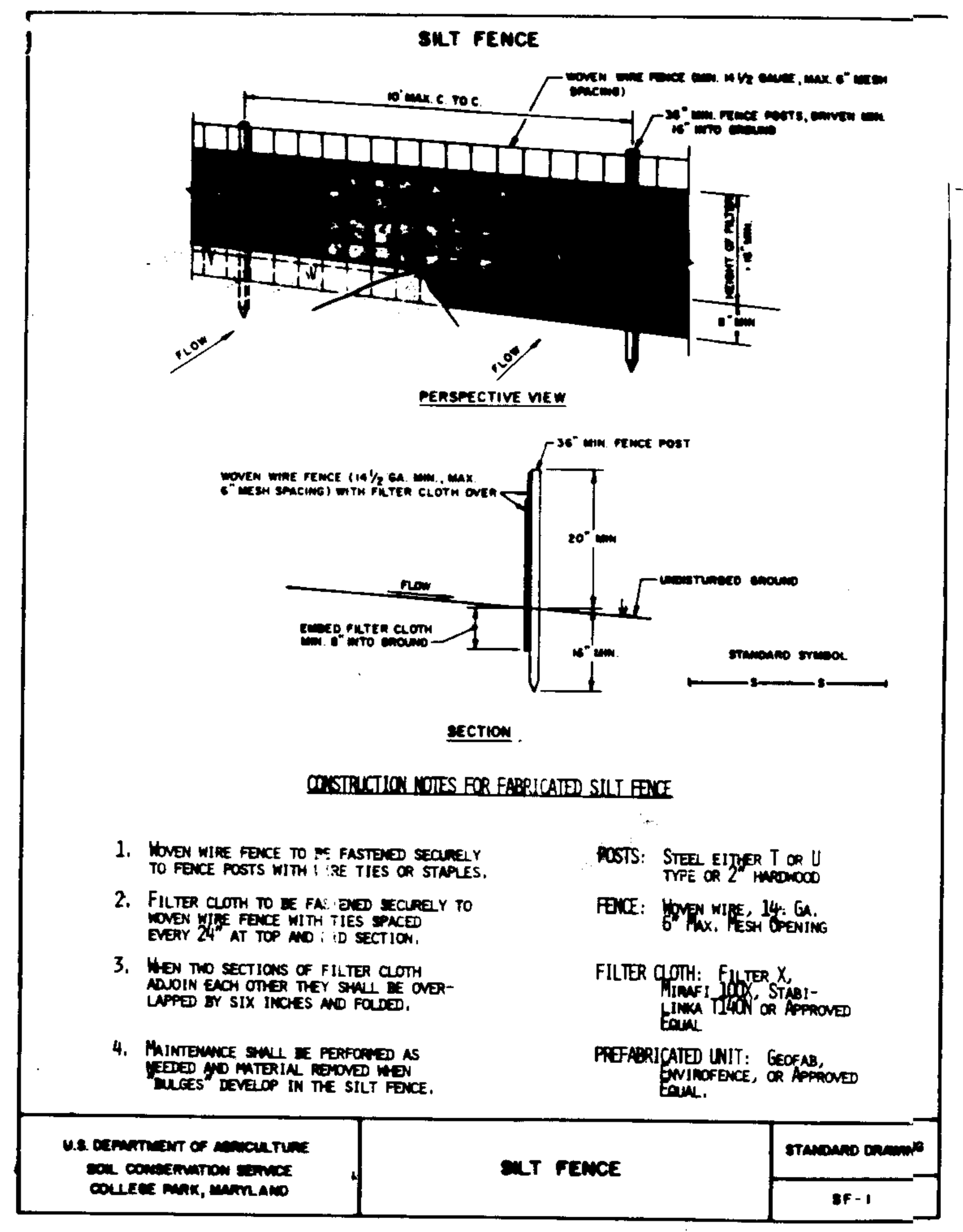
SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./100 SQ.FT.) FOR THE PERIOD OF MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.) FOR THE PERIOD OF NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

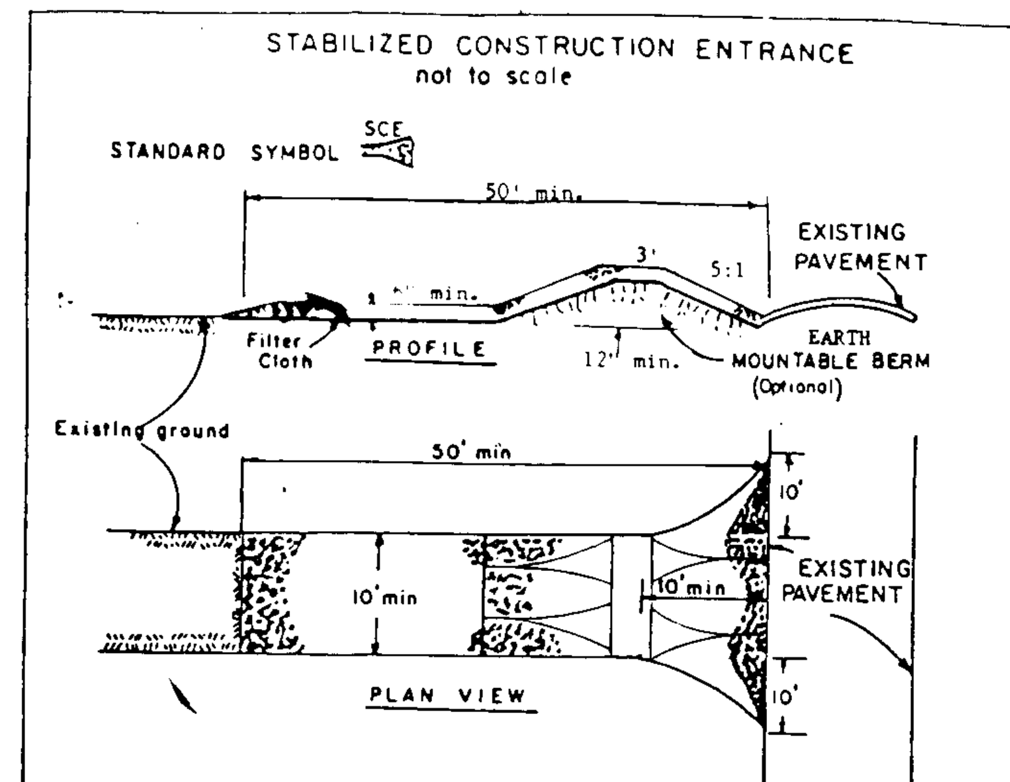
MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

A. SITE ANALYSIS:

1. PROPOSED PATHWAY 7,10 L.F. TOTAL
2. PROPOSED BRIDGE CROSSING 0.0 TOTAL
3. FUTURE TOT LOT 0.0 TOTAL
4. FUTURE PLAY MEADOW 0.0 TOTAL
5. FUTURE SITTING AREA AT OVERLOOK TOTAL
6. TOTAL DISTURBED AREA PATHWAY CONSTRUCTION = ... 71,500 S.F. (1.6 Ac)
7. ... 4,600 S.F. ...
8. TOTAL AREA TO BE VEGETATIVELY STABILIZED ... (0.65 Ac)

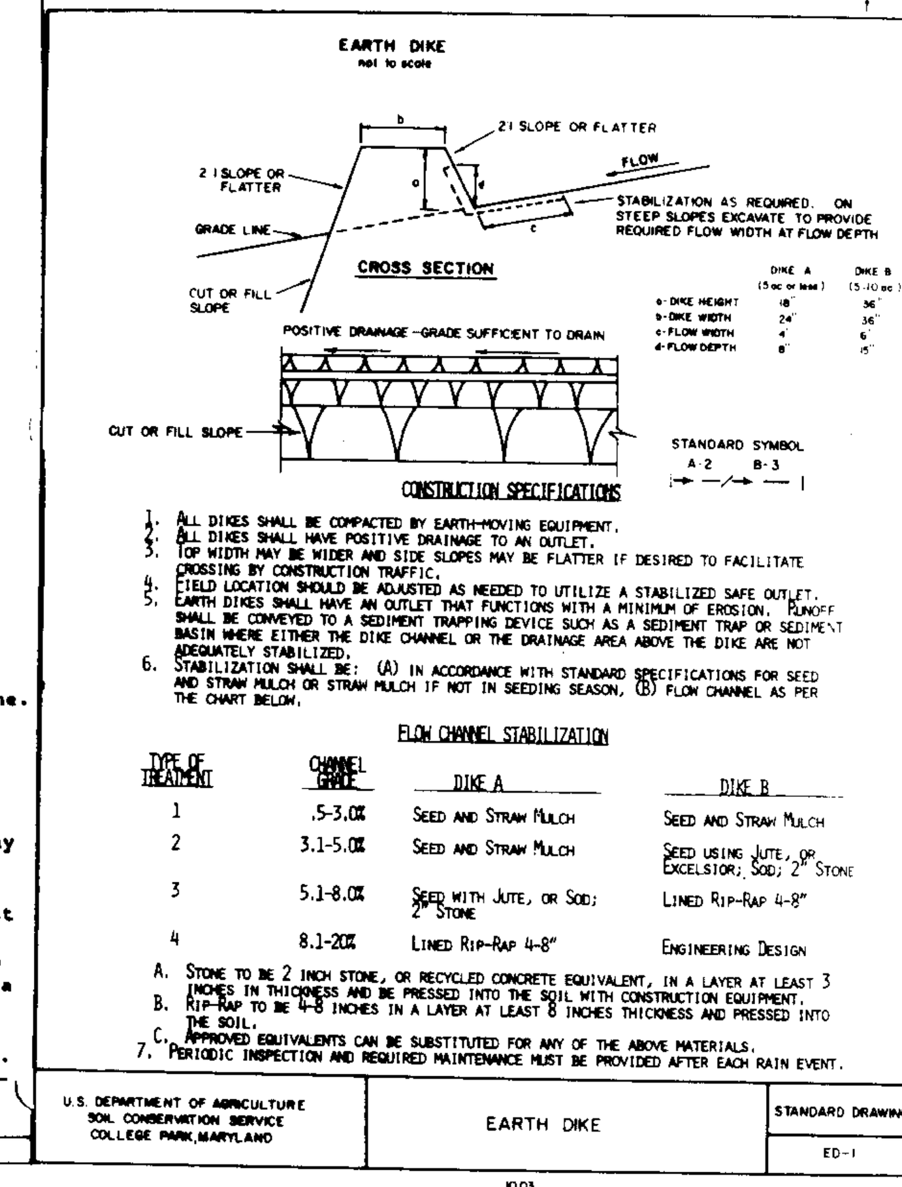




CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

SOIL CONSERVATION , Md.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-2



SEQUENCE OF CONSTRUCTION

1) Obtain grading permit. Notify MDE at least (10) days prior to starting any work. (1) Day
2) Notify the Howard County Sediment Control Division at least 48 hours prior to stating any work at 880-3450. (1) Day
3) Clear and grub for sediment and erosion control measures only. Clear only for (1) days work or 1000'/day. (1) Day
4 Install silt fence along the pathway section to be constructed. Place silt fence on the downhill side of the proposed pathway. In accordance with the Howard County Soil Conservation District, Division of Licenses and Permits and the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control and all latest revisions. (1 Day)
5 Notify Howard County Department of Permits and Licenses, Sediment Control Division, upon completion of said installation.
6 The proposed pathway alignment shall be field staked and approved by the engineer.
7 Once approval is given by the Howard County Department of Permits and Licenses and the Sediment Control Inspector, clear and grub areas for pathway construction. (4 Days)
8 Grade for pathway construction as close as possible to existing grades. (4 Days)
9 Maintain positive drainage to sediment control devices. No slopes are to exceed 3:1. Immediately stabilize all rough graded areas. (2 Days)
10 Install pathway asphalt as required to maintain positive drainage flow. (5 Days)
11 With permission from the Howard County Sediment Control Inspector, remove all erosion control devices and stabilize those areas. (1 Day)

Specific Terms

A. All work performed under this agreement shall comply fully with the requirements of the most current Maryland Standards and Specifications for Soil Erosion and Sediment Control and/or specific requirements which may be issued by HSCD.

B. No work covered by this agreement shall be started until written ... defined herein) has been received from HSCD.

C. CA shall be responsible for arranging for immediate repair or replacement of existing erosion or sediment control measures which are removed, ... rendered ineffective by work covered under this agreement.

D. This agreement applies to earth disturbing activities necessary for the construction of recreational pathways which may be surfaced with ... paving, concrete, stone or mulch.

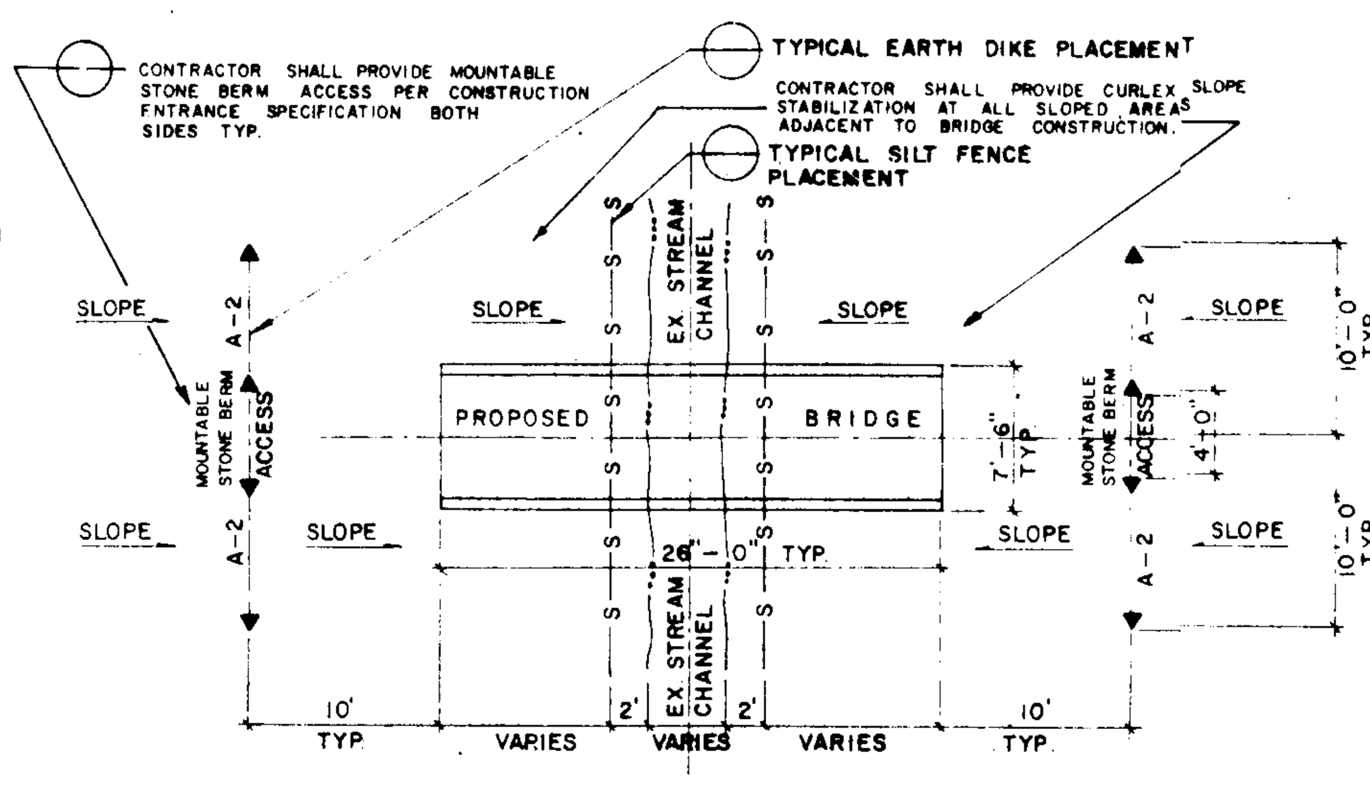
E. The following grading limitations are imposed:

1) Earth work is limited to grubbing, cutting and filling (... herein) necessary to construct pathways.
2) Fill must be properly compacted, fill height not to exceed ... feet, and be not steeper than 33 percent, (3:1).
3) Cut slopes may not exceed 2:1, 50 percent.
4) Grading may not impair surface drainage, create an erosion ... discharge sediment into any adjacent waterway.
5) Grading or filling in wetlands and/or the 100 year floodplain ... approved by the appropriate permitting agency (DNR, WRA, ...).

In cases where these conditions cannot be met, CA must contact ... for specific recommendations. (This may involve preparation ... plan by CA).

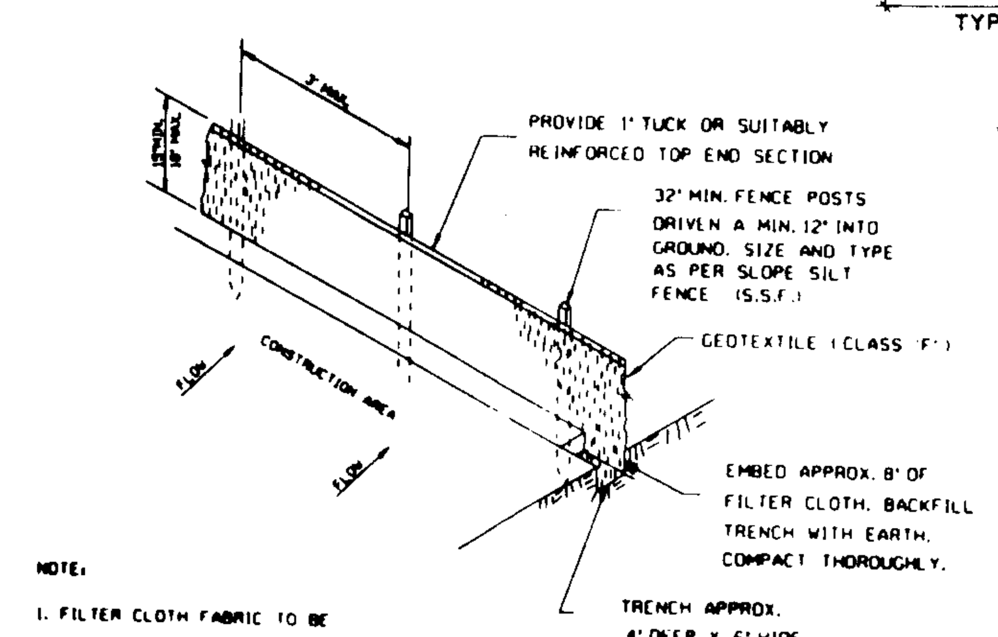
F. Sediment and erosion control measures will be performed as follows:

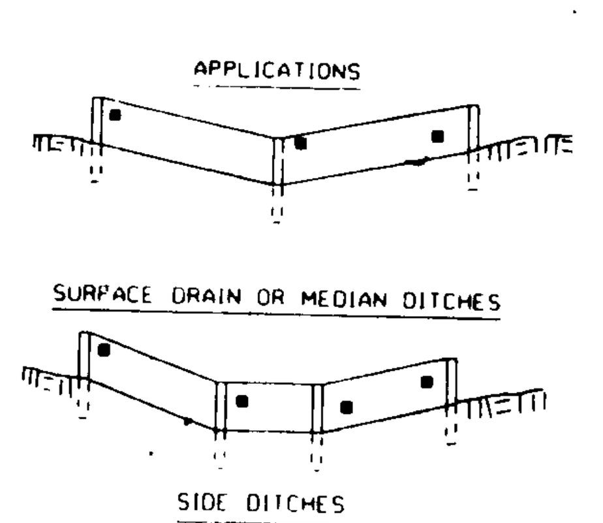
1) Sediment control measures shall be placed as clearing and grading progresses on a day-to-day basis.
2) Equipment entrances must be stabilized with stone to prevent ... tracking of sediment onto public streets. If tracking occurs, ... cleanup is required.



BRIDGE INSTALLATION PLAN

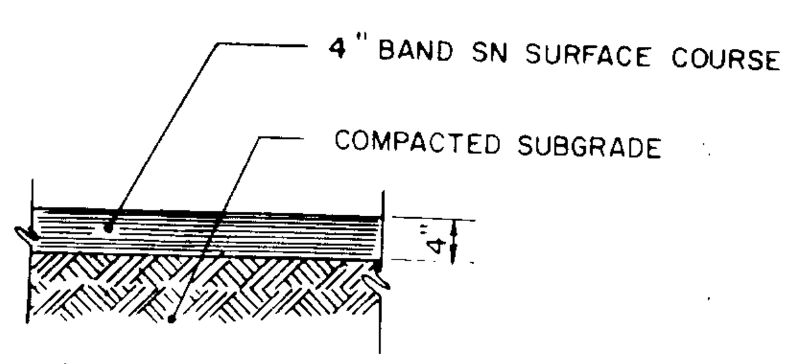
SCALE: 1/8" = 1'-0"





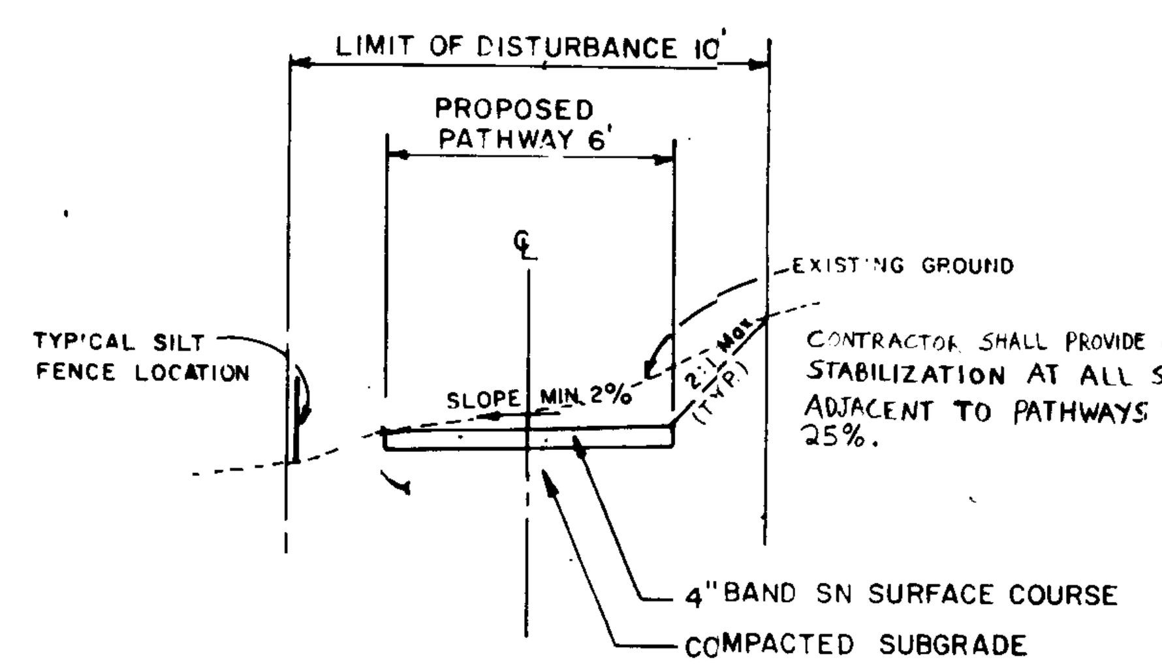
CHANNEL SILT FENCE AT STEAM CROSSING

N.T.S.



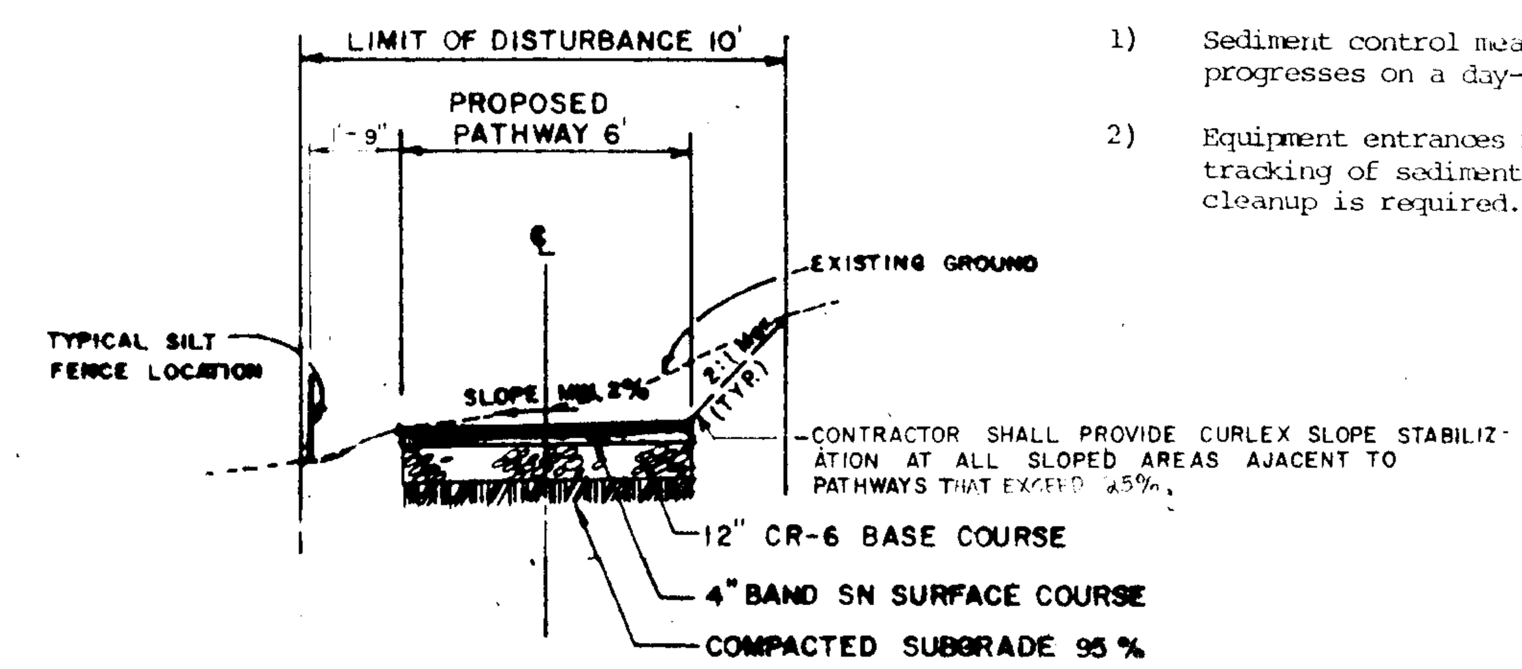
TYPICAL PAVING SECTION PROPOSED PATHWAY

NTS



TYPICAL PATHWAY CROSS SECTION I

SCALE: 1/4" = 1'-0"



TYPICAL PATHWAY CROSS SECTION WITHIN NON-TIDAL WETLAND AREAS

SCALE: 1/4" = 1'-0"

APPROVED
PLANNING BOARD of HOWARD COUNTY
DATE 6.25.91

OWNER/DEVELOPER
... RECREATION ASSOCIATION
... PARKWAY
COLUMBIA, MD ...

RESPONSIBLE PERSONNEL CERTIFICATION
"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A MD DEPT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
SIGNATURE OF DEVELOPER — DENIS ELLIS — DATE 1/27/92

CERTIFICATION BY THE ENGINEER
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS.
SIGNATURE OF ENGINEER — VIJAY BALUSU — DATE 01-28-92

CERTIFICATION BY THE DEVELOPER
"I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZATION AGENTS, AS DEEMED NECESSARY."
SIGNATURE OF DEVELOPER — DENIS ELLIS — DATE 1/27/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. — DATE 2/12/92
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
APPROVED: U.S. SOIL CONSERVATION SERVICE — DATE 2/12/92

STATE OF MARYLAND — VIJAY BALUSU — PROFESSIONAL ENGINEER — No. 18044 — REGISTERED

PREPARED BY
KCI TECHNOLOGIES, INC.
ENGINEERS · PLANNERS · SURVEYORS
5992 BALTIMORE AVENUE SUITE 300
LAUREL, MD 20707
PHONE: (301) 792-8086

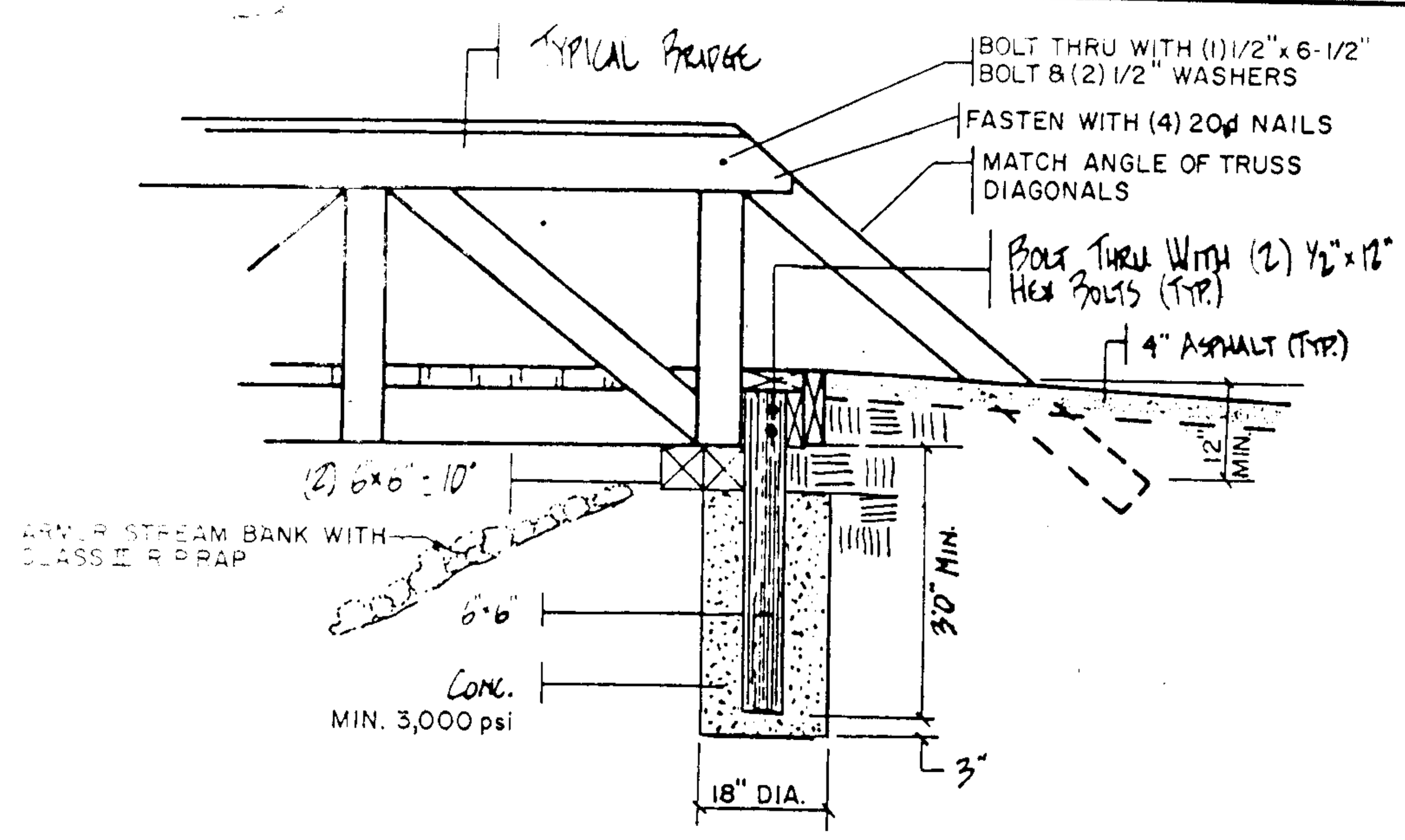
DETAIL SHEET

OAKLAND RIDGE INDUSTRIAL PARK
OPEN SPACE MASTER PLAN

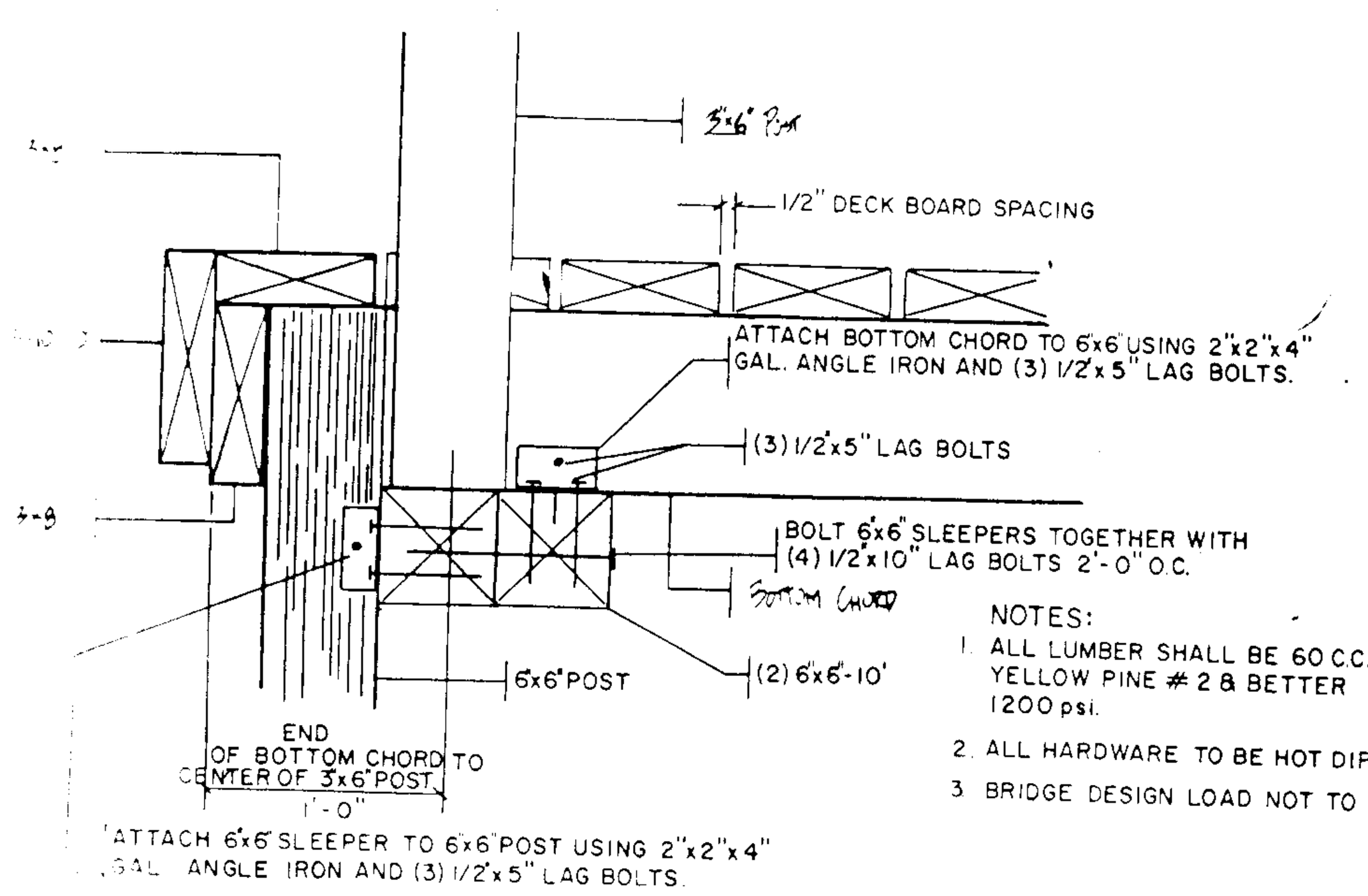
SHEET 3 OF 4

SDP-91-105

TYPICAL 26 FOOT BRIDGE DETAILS

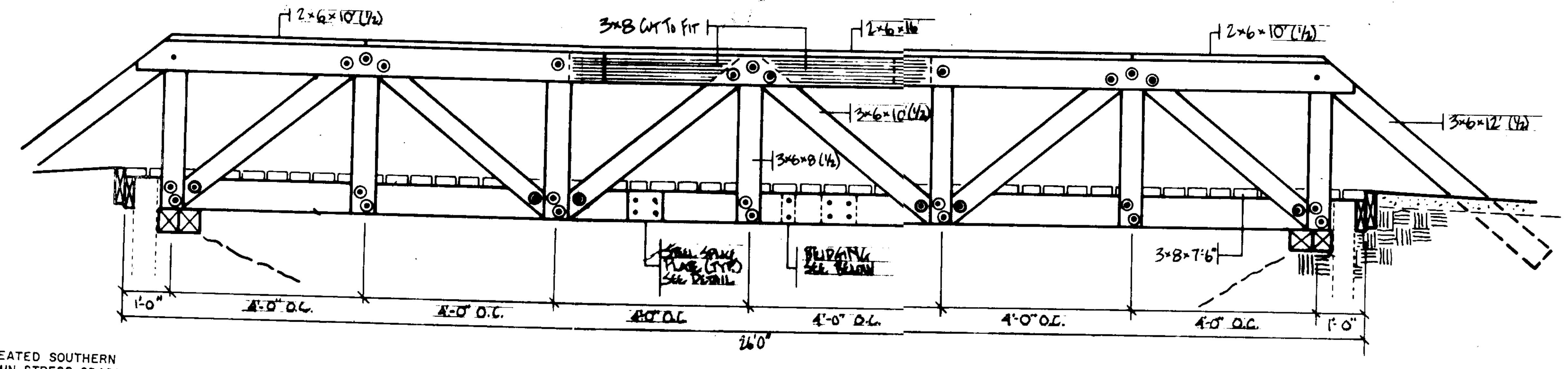


SIDE VIEW FOOTING DETAIL

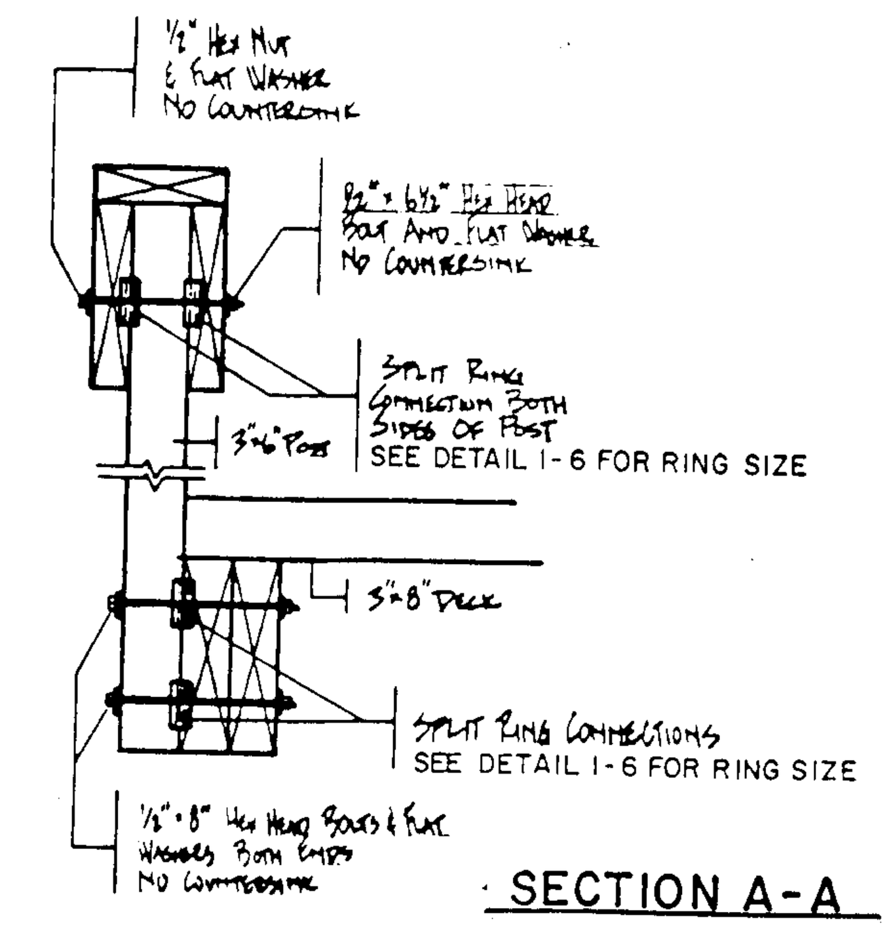


NOTES:
1. ALL LUMBER SHALL BE 60 C.C.A. TREATED SOUTHERN YELLOW PINE # 2 & BETTER S4S MIN. STRESS GRADE 1200 psi.
2. ALL HARDWARE TO BE HOT DIPPED GALVANIZED.
3. BRIDGE DESIGN LOAD NOT TO EXCEED 3 TONS.

END PLATE SIDE VIEW

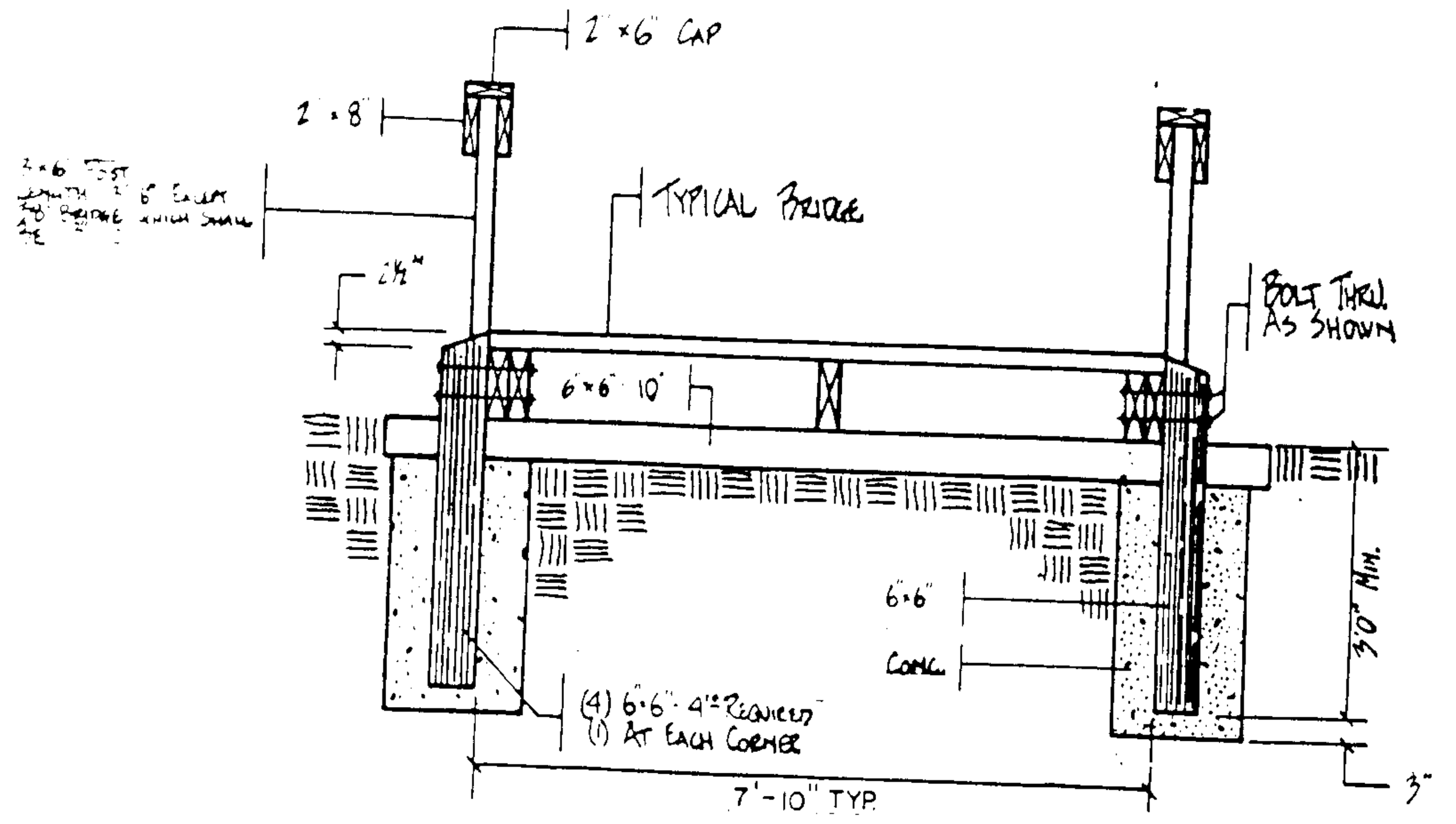


SIDE VIEW

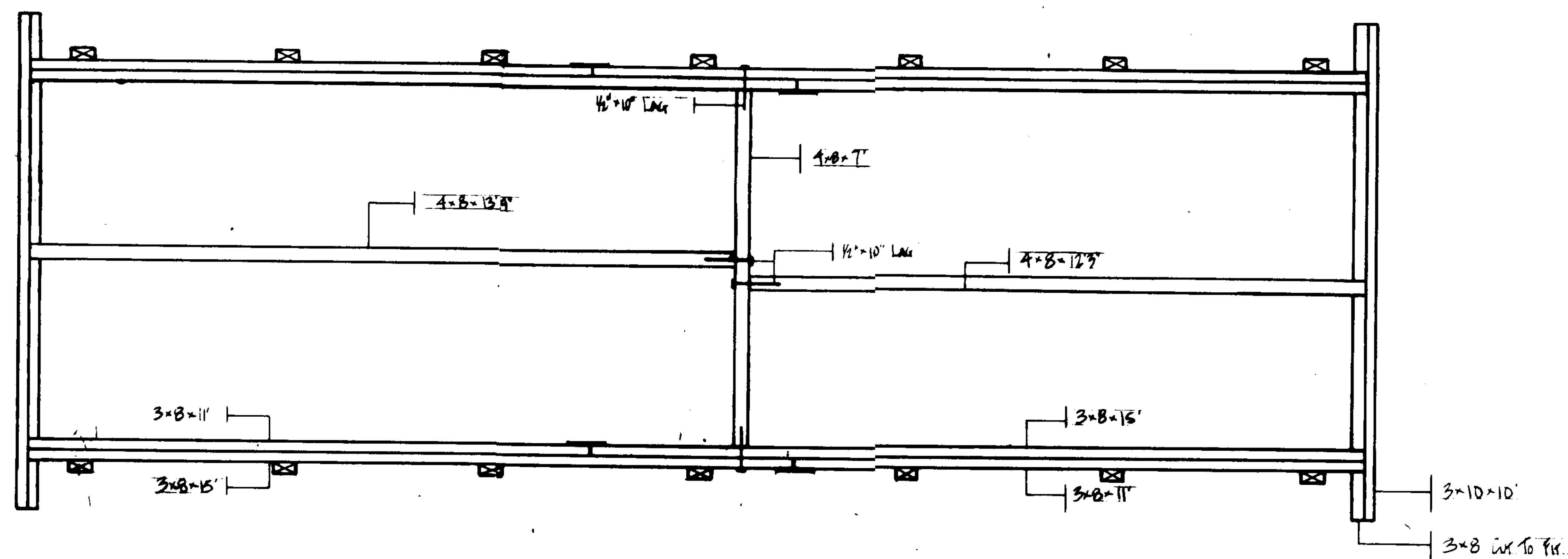


SECTION A-A

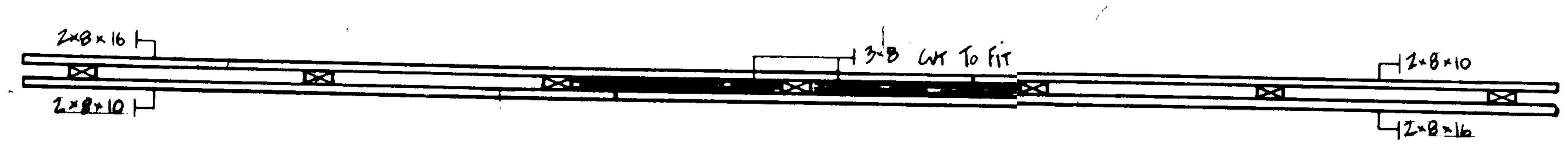
SPLIT RING CONNECTION DETAIL



END VIEW FOOTING DETAIL SECTION B-B



DECK FRAMING PLAN



TOP CHORD

NOTE: THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS REVIEWS BRIDGE DRAWINGS FOR LINE, GRADE AND FLOODPLAIN IMPACT ONLY. THE DEPARTMENT OF LICENSES AND PERMITS PERFORMS RELATED STRUCTURAL REVIEW.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 6-25-91

OWNER/DEVELOPER
COLUMBIA PARK & RECREATION ASSOC.
9861 BROKEN LAND PARKWAY
SUITE 300
COLUMBIA, MD 21046
PHONE (301) 38...

RESPONSIBLE PERSONNEL CERTIFICATION
"I CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A MD. DEPT. OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
SIGNATURE OF DEVELOPER — DENIS ELLIS — DATE 1/27/92

CERTIFICATION BY THE ENGINEER
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS."
SIGNATURE OF ENGINEER — VIJAY BALUSU — DATE

CERTIFICATION BY THE DEVELOPER
"I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZATION AGENTS, AS DEEMED NECESSARY."
SIGNATURE OF DEVELOPER — DENIS ELLIS — DATE 1/27/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD S.C.D. DATE 2/12/92
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
APPROVED: U.S. SOIL CONSERVATION SERVICE DATE 2/12/92

VIJAY BALUSU PE MD NO 18044

REVISIONS		
NO.	DESCRIPTION	DATE

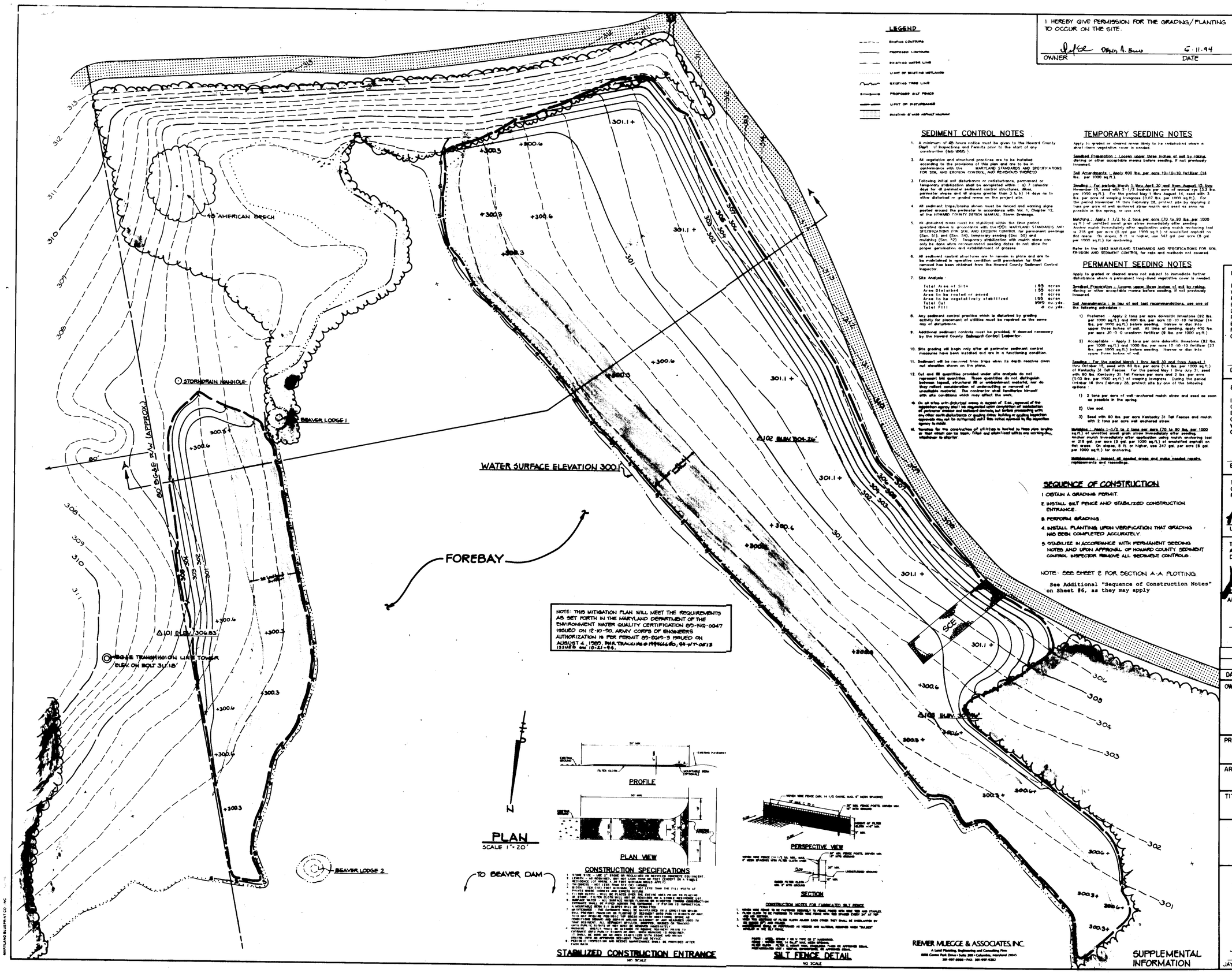
PREPARED BY:
KCI TECHNOLOGIES, INC.
ENGINEERS · PLANNERS · SURVEYORS
13992 BALTIMORE AVENUE / SUITE 300
LAUREL, MD 20707
PHONE: (301) 792-8086

BRIDGE DETAIL SHEET
OAKLAND RIDGE INDUSTRIAL PARK
OPEN SPACE MASTER PLAN

Oakland Ridge Industrial Park 602302
WATER CODE N/A

SHEET 4 OF 4

SDP 91-105



I HEREBY GIVE PERMISSION FOR THE GRADING/PLANTING TO OCCUR ON THE SITE.

OWNER — Ogden A. Beeman — 5-11-94 DATE

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING WATER LINE
- LIMIT OF EXISTING WETLANDS
- EXISTING TREE LINE
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- EXISTING & NEW ASPHALT PAVEMENT

SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Dept. of Inspections and Permits prior to the start of any construction (345-1666).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERETO
3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3 % b) 14 days as to other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around the perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the MDE/ MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL for permanent seedings (Sec. 51), and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis :

Total Area of Site	1.93 acres
Area Disturbed	1.93 acres
Area to be roofed or paved	0 acre
Area to be vegetatively stabilized	1.93 acres
Total Cut	9990 cu yds
Total Fill	0 cu yds

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day as disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
11. Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.
12. Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.
13. On all sites with disturbed areas in excess of 5 ac., approval of the appropriate agency shall be requested upon completion of satisfaction of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this action approval by the inspection agency is made.
14. Variations for the construction of utilities is limited to those steps trenches or test which can be basic filled and stabilized within one working day, whichever is shorter

SEQUENCE OF CONSTRUCTION

1. OBTAIN A GRADING PERMIT.
2. INSTALL SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE.
3. PERFORM GRADING.
4. INSTALL PLANTING UPON VERIFICATION THAT GRADING HAS BEEN COMPLETED ACCURATELY.
5. STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES AND UPON APPROVAL OF HOWARD COUNTY SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROLS.

NOTE: SEE SHEET 2 FOR SECTION A-A PLOTTING.

See Additional "Sequence of Construction Notes" on Sheet #6, as they may apply

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a short term vegetative cover is needed.

Seedbed Preparation : Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments : Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).

Seeding : For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or June seed.

Mulching : Apply 1 1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal per acre (8 gal per 1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation : Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments : In lieu of soil test recommendations, use one of the following schedules :

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 urea-form fertilizer (9 lbs. per 1000 sq.ft.)

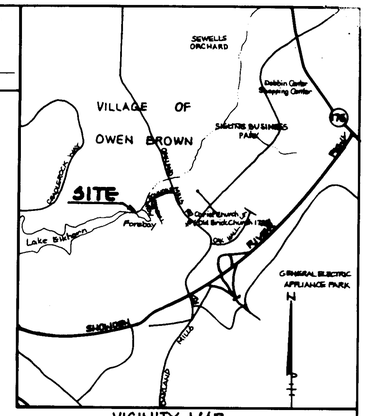
2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding : For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options :

1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
2) Use sod.
3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Maintenance : Inspect all seeded areas and make needed repairs, replacements and reseedings.



VICINITY MAP
SCALE : 1" = 2000'

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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER — Ogden A. Beeman — 5-11-94 DATE

BY THE ENGINEER :

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER — J. Farekh — 5.2.94 DATE

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 — Patricia Engelhart — 3/15/95 DATE

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

HOWARD SOIL CONSERVATION DISTRICT — John P. Robertson — 3/15/95 DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — Gina Stevinsky — 3/15/95 DATE

DATE	NO	REVISION

OWNER/DEVELOPER

COLUMBIA PARKS AND RECREATION ASS.
SUITE 300 9864 BROKEN LAND PARKWAY
COLUMBIA, MARYLAND 21046

PROJECT OAKLAND RIDGE INDUSTRIAL CENTER
MITIGATION PLAN
AT LAKE ELKHORN

AREA TAX MAP 36 — ZONED - NEW TOWN
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: GRADING PLAN

H.A. DIRCKS & CO., INC.
2986 PEBBLE BEACH DRIVE
ELLICOTT CITY, MD. 21042
WILDMAN ENVIRONMENTAL SERVICES

5.2.94 DATE

STATE OF MARYLAND — JAYKANT D PAREKH — #10145 — REGISTERED PROFESSIONAL ENGINEER

JAYKANT D PAREKH #10145

DESIGNED BY	R.B.W., M.A.D.
DRAWN BY	R.B.W.
PROJECT NO	100200
DATE	MAY 2, 1994
SCALE	AS SHOWN
DRAWING NO.	5 OF 7

SDP-91-105

MARYLAND BLUEPRINT CO., INC.

Additional Sequence of Construction Notes

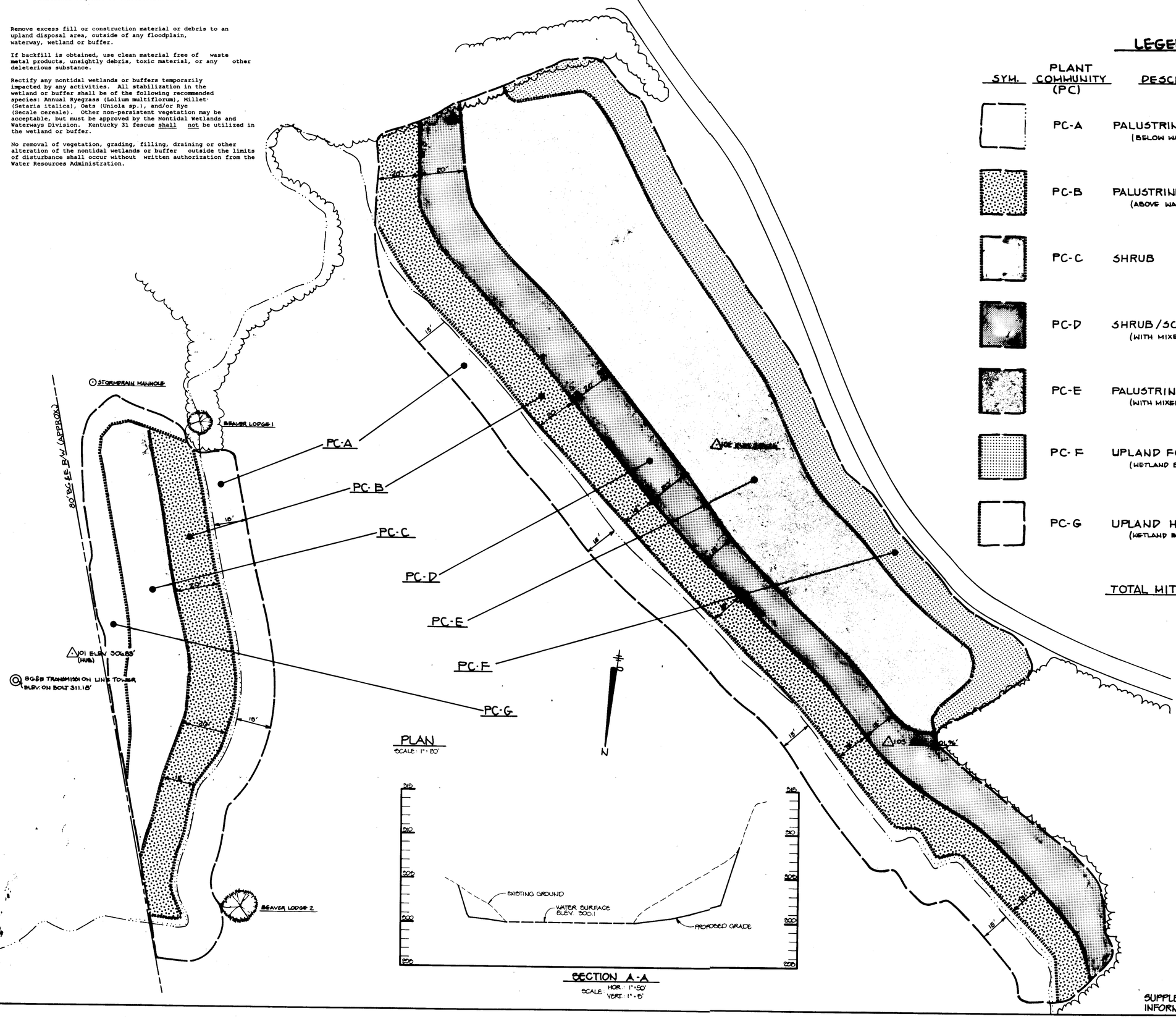
6.

a.) Remove excess fill or construction material or debris to an upland disposal area, outside of any floodplain, waterway, wetland or buffer.

b.) If backfill is obtained, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.

c.) Rectify any nontidal wetlands or buffers temporarily impacted by any activities. All stabilization in the wetland or buffer shall be of the following recommended species: Annual Ryegrass (Lolium multiflorum), Millet (Setaria italica), Oats (Uniola sp.), and/or Rye (Secale cereale). Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. Kentucky 31 fescue shall not be utilized in the wetland or buffer.

d.) No removal of vegetation, grading, filling, draining or other alteration of the nontidal wetlands or buffer outside the limits of disturbance shall occur without written authorization from the Water Resources Administration.



PLAN
SCALE: 1" = 80'

SECTION A-A
SCALE: HOR.: 1" = 50'
VERT.: 1" = 5'

LEGEND

SYM.	PLANT COMMUNITY (PC)	DESCRIPTION	AREA (Ac)
	PC-A	PALUSTRINE EMERGENT (BELOW WATER LINE)	0.26
	PC-B	PALUSTRINE EMERGENT (ABOVE WATER LINE)	0.32
	PC-C	SHRUB	0.10
	PC-D	SHRUB/SCRUB (WITH MIXED TREES)	0.22
	PC-E	PALUSTRINE FORESTED (WITH MIXED SHRUBS)	0.44
	PC-F	UPLAND FORESTED (WETLAND BUFFER)	0.15
	PC-G	UPLAND HERBACEOUS (WETLAND BUFFER)	0.05

TOTAL MITIGATION 1.53 Acres

SUPPLEMENTAL INFORMATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Gina Trimmerman — CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — 3/15/95 DATE

DATE	NO.	REVISION

OWNER/DEVELOPER

COLUMBIA PARKS AND RECREATION ASS.
SUITE 300 9864 BROKEN LAND PARKWAY
COLUMBIA, MARYLAND 21046

PROJECT OAKLAND RIDGE INDUSTRIAL CENTER
MITIGATION PLAN
AT LAKE ELKHORN

AREA TAX MAP 30 — ZONED: NEW TOWN
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: PLANTING PLAN

M.A. DIRCKS & CO., INC.
2986 PEBBLE BEACH DRIVE
ELLICOTT CITY, MD. 21042
WILDMAN ENVIRONMENTAL SERVICES

5.2.94 DATE

STATE OF MARYLAND — JAYKANT D. PAREKH — 15148 — REGISTERED PROFESSIONAL ENGINEER

J. Parekh
JAYKANT D PAREKH #15148

DESIGNED BY	R.B.W., M.A.D.
DRAWN BY	R.B.W.
PROJECT NO	100200
DATE	MAY 2, 1994
SCALE	AS SHOWN
DRAWING NO.	6 OF 7

SDP-91-105

PLANTING SPECIFICATIONS AND NOTES

SITE PREPARATION AND SOILS

1. Silt fences for sediment and erosion control are to be installed as a first order of business.
2. Both areas are to be cleared of existing vegetation and grubbed if needed leaving as much topsoil intact as possible.
3. Exposed topsoil shall be salvaged from within the project limits of work as indicated on the plan and stockpiled for ultimate application to the mitigation area.
4. Contractor shall then grade areas according to plan keeping in mind that finished grades on plan include topsoil mixtures; 6 inches for emergent plant community above water line and a minimum of 8 inches for all other plant communities within wetland planting areas.
5. Topsoil mixture for all plant material: 200 lb. dehydrated raw manure and ten 5.5 cu. ft. bale humus to 12 cu. yds of on site furnished topsoil. Composted sludge in the amount of 4.0 cu. yds. may be substituted for the raw manure, peat moss or peat humus.
6. Soil mix for all plants except ericaceous material: Soil mix shall consist of existing topsoil mixture at each planting pit location into which the contractor shall thoroughly incorporate 33% by volume of composted sludge.
7. Soil mix for ericaceous material: Soil mix shall consist of existing topsoil mixture at each planting pit location into which the contractor shall thoroughly incorporate 33% by volume peat moss.
8. All mixing in 6 and 7 shall be limited to shrub and/or tree ball and burlap or container grown stock only and confined to the planting pit and immediate adjacent soil surface area and shall be accomplished to the satisfaction of the design team or Engineer.

LIMITS OF WORK

1. The construction procedure shall not damage wetlands outside of the grading limits or damage areas designated to be undisturbed on the plans that occur within the project limits. Any damage shall be restored by the Contractor at his expense and to the satisfaction of the design team or Engineer.

WETLAND PLANT AVAILABILITY

1. Plant species required are normally available from standard landscape nursery sources. The Contractor must make arrangements with competent wetlands restoration specialists to insure a supply of the required material.
2. The Contractor and/or his subcontractor should be aware of the site design conditions and should take all prudent steps to insure that the plant material specified on the plans is acclimated to wetland conditions prior to delivery to the job site. If the material is available from sources where wetland conditions ar duplicated at he nursery, the Contractor should favor these sources as the supplier.
3. Rootstock of wetland plant material should be kept moist during the transport from the source to the job site and until planted.

FERTILIZING

1. Emergent plants below the water line should not be fertilized at this time.
2. Emergent plants above the water line shall be fertilized using 16-6-12 (3 to 4 month slow release) or equal approved by design team or Engineer.
3. Fertilizer for wetland trees and shrubs shall be a 21 gr. tightly compressed, long-lasting slow release (2 year) planting tablet with a minimum guaranteed analysis of 20-10-5.
4. Fertilizer for container grown material shall apply the following rates:
   1 gal. container 1 ea. 21 gr. tablets
   3 gal. container 2 ea. 21 gr. tablets
   5 gal. container 3 ea. 21 gr. tablets
   7 gal. container 5 ea. 21 gr. tablets
5. B & B or Container stock shall be positioned in the planting hole. Backfill halfway up the root mass. Place tablet(s) beside the root mass approx. 1 inch from the root tips. Do not place tablets in the bottom of the hole. Complete backfill, tamp and water.

PLANTING SCHEDULE

1. It is recommended that the planting be done early in the spring.

HYDROLOGY

1. Hydrology to support the mitigation will be achieved by grading into existing water table and blending into existing wetlands. Additional water will come from rainfall and run-off from surrounding area.

PEST CONTROL

1. All planted oak trees shall be protected from gypsy moth damage by using gypsy moth repellant tape or other suitable means after planting.
2. A nylon line fence shall be installed to prevent waterfowl depredation. Stakes shall be placed at the PCA/open water interface with approximately four (4) rows of nylon line. A second nylon line fence shall be installed at the PCA/PCB interface.

WETLAND PLANTING PROCEDURES AND ESTABLISHMENT

1. Plant Community A, Palustrine Emergent, below existing water line in both Areas 1 and 2, shall be planted according to planting depths and spacing as shown in Plant List on Specifications and Detail sheet. Species should be evenly dispersed over entire designated area in groups of twenty (20) to thirty (30) per species.
2. Plant Community B, Palustrine Emergent, above existing water line in both Areas 1 and 2, shall be planted according to spacings as shown in Plant List on Specifications and Detail sheet. Species shall be evenly dispersed over entire designated area in groups of twenty (20) to thirty (30) per species.
3. Plant Community C, Shrub, shall consist of shrubs only. Shrubs are to be planted over entire designated area at an average spacing of five (5) feet. Contractor shall avoid planting in a straight grid pattern. Shrubs shall be planted within a range of four (4) to six (6) feet apart to create a more natural and non-mechanical appearance when completed.
4. Plant community D, Shrub/Scrub, shall consist of planting area according to specifications for Plant Community C (No. 3) first. After this, trees are to be planted over entire area at an average spacing of twenty (20) feet (15 to 25 feet apart) to create a natural appearance.
5. For all shrub planting areas, Contractor shall evenly disperse species in groups of 3 to 5 per species over entire designated area.
6. For trees planted in No. 4, Contractor shall evenly disperse species over entire area to be planted but not in groups.
7. Plant Community E, Palustrine Forested, shall consist of planting trees over the entire designated area at an average of ten (10) feet (8' to 12' apart).
8. Avoid planting in a straight grid pattern.
9. For trees planted in #7 (Plant Community E), Contractor shall evenly disperse species in groups of two (2) to four (4) per species over the entire designated area to be planted.
10. All trees planted in all areas shall be planted using Tubex Tree Shelters to aid in their growth and as a deterrent to beaver predation (See Tubex Procedure and Notes).
11. For Plant Community E, shrubs shall be planted among the trees singly in every opening between trees being sure to evenly disperse all species over entire designated area.
12. For Plant Community C, D, and E, staying within designated areas, Contractor shall hand seed all areas with TesTech Seed Mix consisting of: 25% Red Top, Agrostis alba; 15% Deertongue, Dichanthelium clandestinum; 15% Perennial Rye; 10% Rough Bluegrass, Poa trivialis; 10% Wild Rye, Elymus virginicus; 10% Gama Grass, Tripsacum dactyloides, 05% Slender Wheatgrass, Agropyron trachycaulum; 05% Dutch White Clover, Trifolium repens
13. All woody plants specified in this plan are to be container grown. When planting a container grown tree or shrub, cut the container loose and remove the plant. Gently separate pot-bound roots so that they can grow into the prepared planting area. Severely encircled roots may have to be cut with a knife. The preparation of the planting area is critical to woody plant survival and vigorous growth. Rather than digging a hole, prepare the planting area at least three times the diameter of the root ball. Set the plant in the center of the area so that the upper surface of the root ball is level with the surrounding soil.
14. Plant Community F, Upland Forest, shall serve as a forested buffer to the newly created wetlands. It is to be seeded according to the stabilization Permanent Seeding Notes while simultaneously seeding with Wildlife Nurseries-Wildflower Seed Mixture consisting of at least twelve (12) different species. Recommended seeding rate of four (4) lbs. per acre at $40.00 per lb.
15. After completion of No. 14 upland trees shall be planted evenly dispersing species over entire area in species groups of two (2). An average spacing of ten feet (8 to 12 feet) should be used at random to insure a natural appearance.
16. Plant Community G, Upland Herbaceous, shall be planted according to No. 14 but without trees. This area is to remain in an open field condition and serve as a buffer to the newly created wetlands.

MAINTENANCE SCHEDULE

1. Annual maintenance during the growing season, for a three year period.
2. Assess tree mortality of planting stock, remove and replace any dead or diseased plantings.
3. Volunteer seeding of native, local and endemic vegetation is to be expected. Do not discourage this effort unless it is negatively effecting the planted stock.
4. Remove through manual means (grubbing, pulling, cutting) aggressive, noxious, invasive species (ie. phragmites, cattail, Japanese knotweed, mile-a-minute) and all herbaceous vegetation within a 3-foot radius surrounding the planted woody nursery stock.
5. Remove and dispose of man-made trash, including items contained within flotsam drift lines. Do not remove down and dead material naturally occurring or accumulating, unless it is smothering planting stock.

OPTIONAL LONG TERM EVALUATION

1. This site can be considered successful if after the fifth growing season, a comprehensive point intercept sampling procedure reveals that a prevalence ecological index (PI) of 3.0 or less is expressed within the mitigation site. (PI of <= 3.0 is a plant community consisting of 50% or greater, native, indigenous and endemic hydrophytic vegetation. A qualifying index will also confirm viable wetland hydrology).

EMERGENTS (PLANT COMMUNITY A-below water line)

QTY	SYMBOL	SPECIES	INDICATOR STATUS	PLANTING DEPTH	SPACING
155	Pc	Pontederia cordata Pickerelweed	OBL	0-1'	3'OC
155	Pv	Peltandra virginica Arrow Arum	OBL	0-1'	3'OC
353	Sc	Saururus cernuus Lizards Tail	OBL	0-1'	2'OC
353	Sa	Scirpus americanus Common Three-Square	OBL	0-0.5'	2'OC
353	Ip	Iris pseudoacorus Yellow Iris	OBL	0-0.5'	2'OC
353	Iv	Iris versicolor Blue Flag	OBL	0-0.5'	2'OC
353	Ac	Acorus calamus Sweet Flag	OBL	0-0.5'	2'OC
353	Lo	Leersia oryzoides Rice Cutgrass	OBL	0-3"	2'OC

Note: Bare root or container

EMERGENTS (PLANT COMMUNITY B-above water line)

QTY	SYMBOL	SPECIES	INDICATOR STATUS	AVERAGE SPACING	REMARKS
256	Sc	Scirpus cyperinus Woolgrass	FACW	3.0'OC	Bare root or cont
580	Ic	Impatiens capensis Jewelweed	FACW	2.0'OC	Bare root or cont
580	Lo	Leersia oryzoides Rice Cutgrass	OBL	2.0'OC	Bare root or cont
580	Lc	Lobelia cardinalis Cardinal Flower	FACW+	2.0'OC	Bare root or cont
580	Pv	Panicum virgatum Switchgrass	FAC	2.0'OC	Bare root or cont
580	Ed	Eupatorium dubium Joe-Pye-Weed	FACW	2.0'OC	Bare root or cont

SHRUBS (PLANT COMMUNITY C and D)

QTY	SYMBOL	SPECIES	INDICATOR STATUS	SIZE	REMARKS
93	Iv	Ilex verticillata Winterberry	FACW+	18-24"	BBB or cont
93	Vd	Viburnum dentatum Arrowwood	FAC	18-24"	BBB or cont
93	Lb	Lindera benzoin Spicebush	FACW+	18-24"	BBB or cont
93	Sc	Sambucus canadensis Common Elderberry	FACW+	18-24"	BBB or cont
93	Vc	Vaccinium corymbosom Highbush Blueberry	FACW+	18-24"	BBB or cont
93	Rv	Rhododendron viscosum Swamp Azalea	OBL	18-24"	BBB or cont

TREES (PLANT COMMUNITY E)

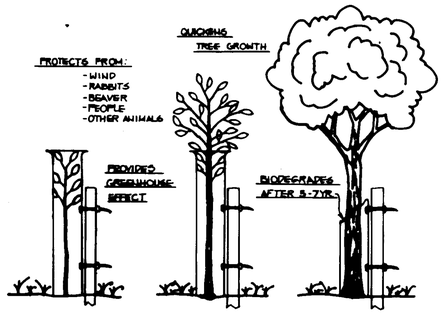
QTY	SYMBOL	SPECIES	INDICATOR STATUS	SIZE	REMARKS
40	Ar	Acer rubrum Red Maple	FAC	3-4'	BBB or cont
40	Fp	Fraxinus pennsylvanica Green Ash	FACW	3-4'	BBB or cont
40	Pt	Pinus taeda Loblolly Pine	FAC-	3-4'	BBB or cont
40	Io	Ilex opaca American Holly	FACU+	3-4'	BBB or cont
40	Qp	Quercus palustris Pin Oak	FACW	3-4'	BBB or cont
40	Po	Platanus occidentalis American Sycamore	FACW-	3-4'	BBB or cont

TREES (PLANT COMMUNITY F)

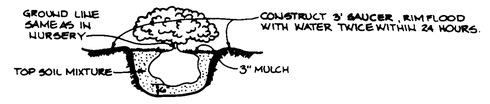
QTY	SYMBOL	SPECIES	INDICATOR STATUS	SIZE	REMARKS
13	Ps	Pinus strobus White Pine	FACU	3-4'	BBB or cont
13	Rp	Robinia pseudo-acacia Black locust	FACU-	3-4'	BBB or cont
13	Cc	Carya cordiformis Bitternut Hickory	NI	3-4'	BBB or cont
13	Ma	Magnolia acuminata Cucumber Magnolia	FACU	3-4'	BBB or cont
13	Qm	Quercus muhlenbergii Chinquapin Oak	NI	3-4'	BBB or cont

TUBEX PROCEDURES AND SPECIFICATIONS

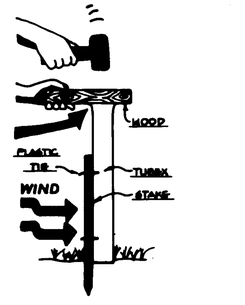
1. Drive the stake into the ground 1.5" from the tree to a depth of 12-14".
   In open fields, drive the stake on the windward side of the seedling for added support.
   In shady areas, drive the stake on the north side to prevent the stake from shading the tree.
2. Guide the TUBEX down the stake, making sure to loop the tie(s) over the stake as you go.
3. Gently slip the TUBEX over the tree. Be sure to keep the tree free of the ties as you lower the TUBEX into place.
4. Drive the base of the TUBEX 1" into the ground. This is critical. It forms an air-tight seal, to capture transpired water vapor. The easiest way to do this is by placing a 5x5" or bigger board over the shelter and wrapping it with a mallet. When pounding TUBEX into the sod, first loosen the ground and matted roots.
5. Pull the ties tight.
6. Place protective mesh over the top of the TUBEX to prevent entry by birds. They can become trapped and die inside the tubes without the mesh covering.



TUBEX TREE GROWTH
NO SCALE



SHRUB PLANTING DETAIL
NO SCALE



TUBEX INSTALLATION
NO SCALE

SUPPLEMENTAL INFORMATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Gina Irwin Manji 3/13/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE	NO	REVISION

OWNER/DEVELOPER

COLUMBIA PARKS AND RECREATION ASSOC.
SUITE 300 9160 BROKEN LAND PARKWAY
COLUMBIA, MARYLAND 21046

PROJECT OAKLAND RIDGE INDUSTRIAL CENTER MITIGATION PLAN
AT LAKE ELKHORN

AREA TAX MAP 36 ZONED-NEW TOWN
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE DETAILS & SPECIFICATIONS

H.A. DIRCKS & CO., INC.
2986 PEBBLE BEACH DRIVE
ELLICOTT CITY, MD 21042
WILDMAN ENVIRONMENTAL SERVICES

5.2.95 DATE

STATE OF MARYLAND JAYKANT D PAREKH 10148 REGISTERED PROFESSIONAL ENGINEER

J. Parekh
JAYKANT D PAREKH #10148

DESIGNED BY	R.B.W. + H.A.D.
DRAWN BY	R.B.W.
PROJECT NO	100200
DATE	MAY 2, 1995
SCALE	AS SHOWN
DRAWING NO	7 OF 7

SDP-91-105