

**STONE OUTLET
SEDIMENT TRAP DATA**

DRAINAGE AREA 1.2 AC.
STORAGE REQ. 2,100 CU. FT.
STORAGE PROV. 2,922 CU. FT.
TOP ELEV. 240.0
GREST ELEV. 245.0
CLEANOUT ELEV. 242.0
BOTTOM ELEV. 240.0
GREST WIDTH 5'

SOILS CLASSIFICATION

SYMBOL **SOILS GROUP** **DESCRIPTION**

BeD2 C DELTSVILLE SILT LOAM
10 TO 15 PERCENT SLOPES
MODERATELY ERODED

MrE C MONTALTO AND RELAY SOILS,
15 TO 45 PERCENT SLOPES.

L1 D LEONARDTOWN SILT LOAM
(HYDRIC).

SOILS INFORMATION TAKEN FROM SOIL SURVEY
HOWARD COUNTY MARYLAND PAGE 35.

SEQUENCE OF CONSTRUCTION

DAY 1 OBTAIN A GRADING PERMIT

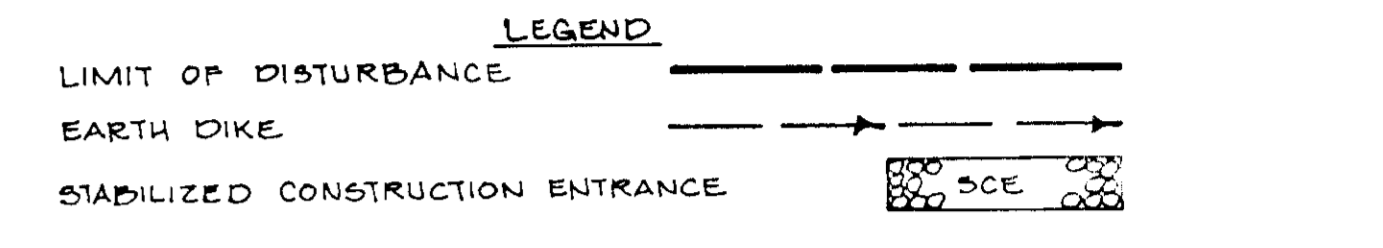
DAY 2-5 INSTALL SEDIMENT CONTROL DEVICES AND TREE PROTECTION FENCE.

DAY 6-16 GRADE SITE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEED BED NOTES.

DAY 17-20 COMPLETE CONSTRUCTION ON ALL LOTS.

DAY 21-25 UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEED BED NOTES.

NOTES: 1. STORMWATER MANAGEMENT FOR THIS PROJECT IS PROVIDED UNDER F-21-1G5.
2. DELAY CONSTRUCTION OF THE HOUSE ON LOT 291 UNTIL PERMISSION TO REMOVE SEDIMENT TRAP IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR.



- STANDARD SEDIMENT CONTROL NOTES**
- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, Licenses and Permits, Sediment Control Division prior to the start of any construction. (311-1858).
 - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, revisions thereto.
 - Following initial soil disturbances or redistribution, permanent or temporary stabilization shall be completed within: a) 14 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
 - All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Volume 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - 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 seeding (Section 51), sod (Section 54), temporary seeding (Section 58) and mulching (Section 52). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
 - 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.
 - Site Analysis:

Total Area of Site	0.97 Acres
Area Disturbed	0.97 Acres
Area to be Reroofed or Paved	0.22 Acres
Area to be Vegetatively Stabilized	0.5 Acres
Total C.U.	2022 Cu. Yds.
Offsite Waste/Borrow Area Location	KING'S WOODS SPP-93-84
 - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 - Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
 - On all sites with 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. This notice procedure shall apply to each disturbance or grading. Other building or grading inspections approvals may not be authorized until this initial approval by the inspection agency is made.
 - Trenches for the construction of utilities is limited to three pipe lengths of that which can be back filled and stabilized within one working day, whichever is shorter.

PERMANENT SEEDBED PREPARATION

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:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 104/1000 SO FT) AND 600 104 PER ACRE 10-10-10 FERTILIZER (14 104/1000 SO FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 10-10-10 UREAFORM FERTILIZER (19 104/1000 SO FT)
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 104/1000 SO FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 104/1000 SO 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 (1.4 104/1000 SO FT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (1.08 104/1000 SO FT) OF KEEPING 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 SOO; OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 104/1000 SO FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 04/1000 SO FT) OF QUALIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 04/1000 SO FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDBED PREPARATION

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 100 LBS PER ACRE 10-10-10 FERTILIZER (14 104/1000 SO 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 (3.3 104/1000 SO FT). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 1 LBS PER ACRE OF KEEPING LOVEGRASS (1.7 104/1000 SO 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 USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 104/1000 SO FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 04/1000 SO FT) OF QUALIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 04/1000 SO FT) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE LATEST REVISIONS.

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."

DEVELOPER: RYAN HOMES DATE: 5/18/93

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: JOHN M. ELORRIAGA DATE: 5/18/93

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

HOWARD S.C.D. DATE: 5/18/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE: 5/18/93

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

COUNTY HEALTH OFFICE DATE: 5-26-93

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

DIRECTOR DATE: 5-26-93

CHIEF, BUREAU OF ENGINEERING DATE: 5-24-93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR DATE: 6/2/93

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE: 6/1/93

NO.	DATE	REVISION
-----	------	----------

TSA GROUP, INC.
planning - architecture - engineering

6460 Baltimore National Pike - Elkton City, Maryland 21043 - (301)460-6100

OWNER: SECURITY DEVELOPMENT CORP.
P.O. BOX 417
ELLCOTT CITY, MARYLAND 21043
(410) 465-4244

PROJECT: KING'S WOODS
SECTION 2, AREA 2 - PHASE 3
LOTS 288 - 292 AND OPEN SPACE LOT 293

LOCATION: TAX MAP 47-PARCELS 140
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

BUILDER: RYAN HOMES
1029 REISTERSTOWN RD. - SUITE 220
BALTIMORE MD. 21208

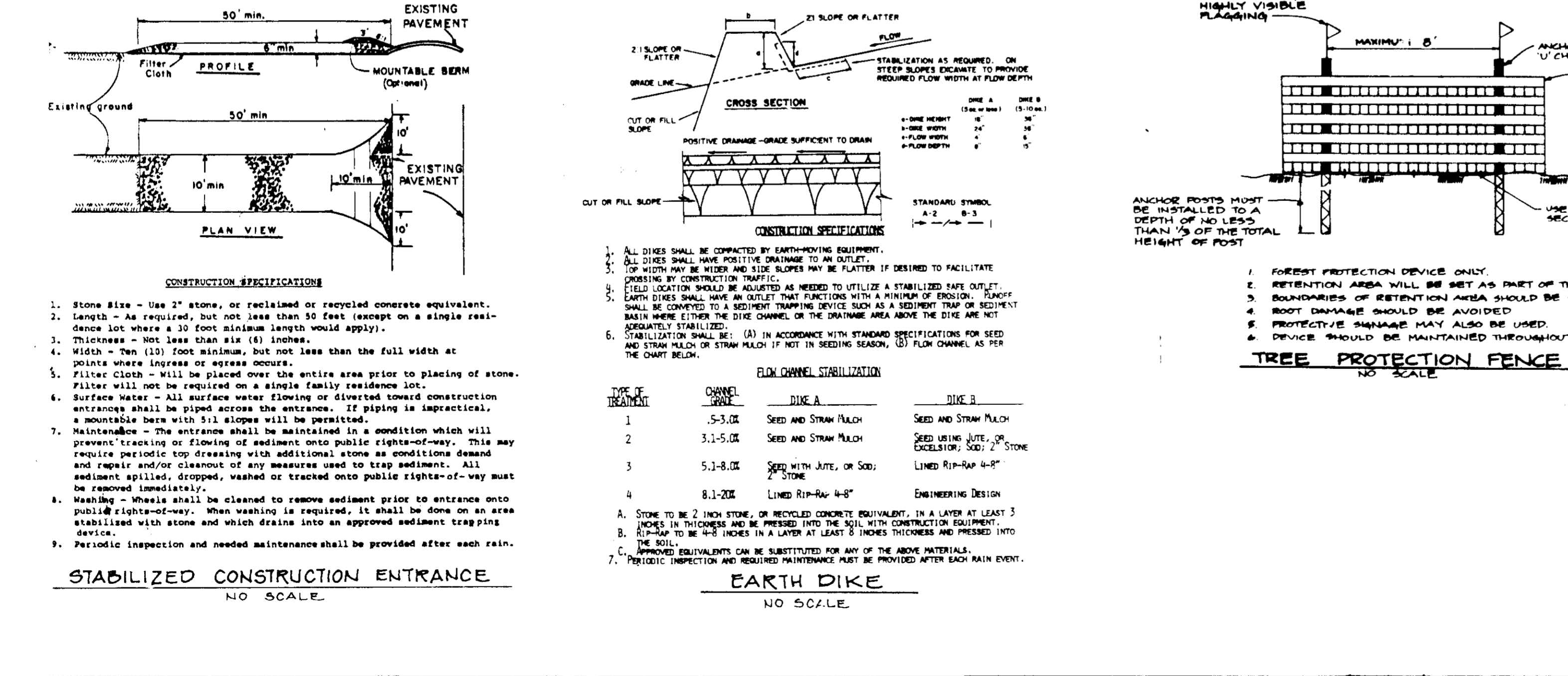
TITLE: SEDIMENT CONTROL PLAN
(SINGLE FAMILY DETACHED DWELLINGS)

DATE: FEBRUARY 17, 1993
MAY 5, 1993

DESIGN: JH/DAM DRN: JWG

SCALE: AS SHOWN

PROJECT NO. 0550
DRAWING 2 OF 2



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 10 feet except on a single residence lot where a 10 foot minimum length would apply.
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where increase of slope occurs.
 - 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.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 3:1 slopes will be permitted.
 - 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 cleaning of any measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - 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 trap/pine device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

FLUX CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL SIZE	DIKE A	DIKE B
1	5-3.0X	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0X	SEED AND STRAW MULCH	SEED WITH JUTE, OR COCOFIBER, SOO, 2" STONE
3	5.1-8.0X	SEED WITH JUTE, OR SOO, 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20X	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

TREE PROTECTION FENCE
NO SCALE

