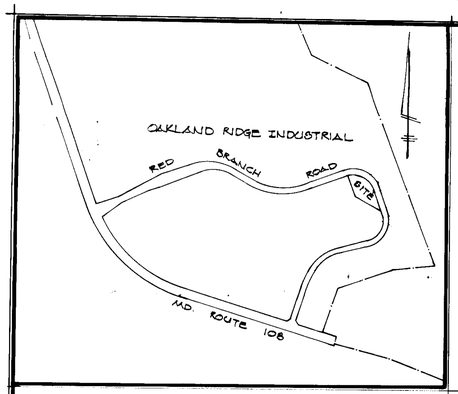


VICINITY MAP
SCALE: 1"=800'

SITE ANALYSIS

1	TOTAL AREA OF SITE	= 1.594 AC.
2	DISTURBED AREA	= 1.63 AC.
3	TOTAL AREA PAVED	= 0.62 AC.
4	TOTAL CUT	= 6000 CU.YDS.
5	TOTAL FILL	= 6000 CU.YDS.

CONSTRUCTION SEQUENCE
1. INSTALL SEDIMENT MEASURES
2. GRADE SITE
3. CONSTRUCT PAVEMENT & STORM DRAINS
4. CONSTRUCT BUILDING

STRUCTURE SCHEDULE

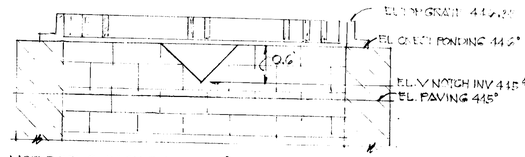
Nº	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS
S-1	HO. CO. STD. TYPE C ENDWALL	-	442.50	SET IN FIELD	SEE HO. CO. STD DETAILS D-12 PAGE 107

STRUCTURE SCHEDULE

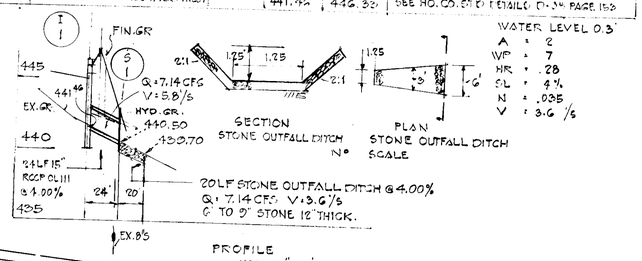
Nº	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS
I-1	HO. CO. CLASS MODIFIED INLET	-	441.42	446.32	SEE HO. CO. STD DETAILS D-24 PAGE 153

THE STONE SHALL BE CRUSHED STONE. GRAVEL MAY BE USED IF STONE IS UNAVAILABLE.

PROFILE
STONE OUTLET STRUCTURE
Nº SCALE

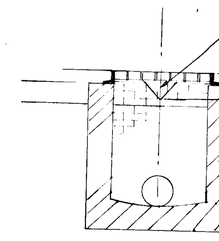


MODIFIED S INLET I-1 WITH 80°V NOTCH NORTH FACE OF INLET
Nº SCALE



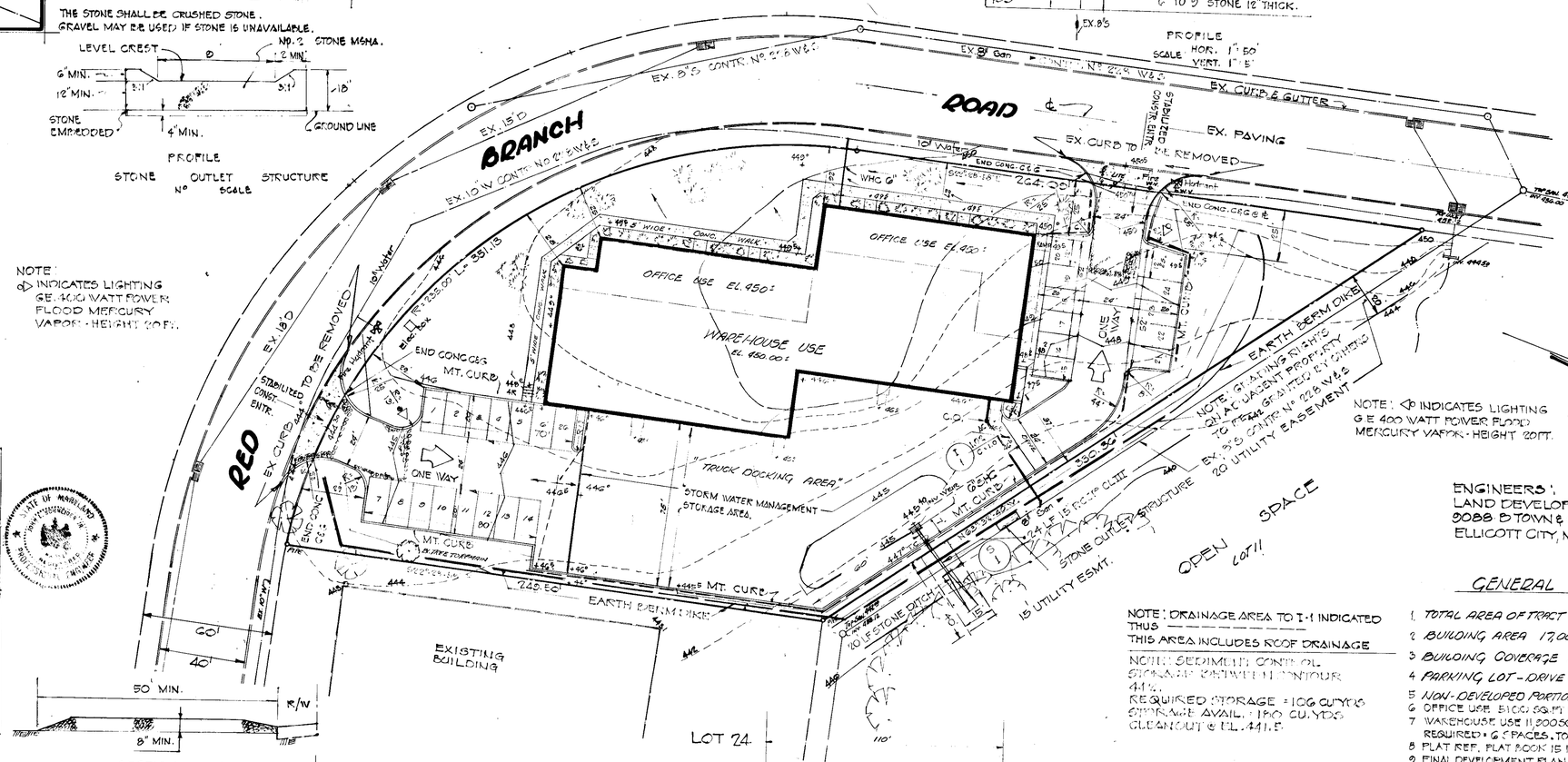
SECTION
STONE OUTFALL DITCH
Nº SCALE

PLAN
STONE OUTFALL DITCH
Nº SCALE



MODIFIED CLASS 'S' INLET I-1
Nº SCALE

STORM WATER MANAGEMENT DATA
1. REQUIRED PARKING AREA STORAGE BASED ON 1.024 AC = 5800 CU.FT.
2. STORAGE SHOWN = 7700 CU.FT.
3. 2 YR. STORM BEFORE DEVELOPMENT
   AREA = 1.021 AC
   RUNOFF COEFF. = 0.2
   I_2 = 3.7 BASED ON 15 MIN.
   Q_2 = 0.76 CFS MAX. RELEASE RATE
4. METHOD OF OUTFLOW
   90° V NOTCH IN NORTH FACE OF I-1
   H = 0.6' RELEASE Q = 0.714 CFS.

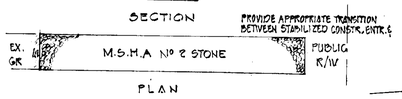


NOTE: ◇ INDICATES LIGHTING
GE 400 WATT POWER FLOOD MERCURY VAPOR - HEIGHT 20FT.

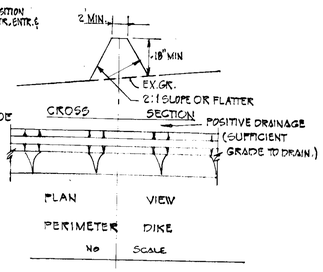
NOTE: DRAINAGE AREA TO I-1 INDICATED THUS ——————
THIS AREA INCLUDES ROOF DRAINAGE

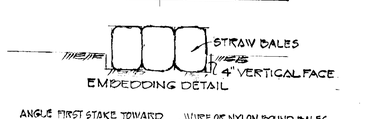
NOTE: SEDIMENT CONTROL STORAGE BETWEEN CONTOUR 441'.
REQUIRED STORAGE = 106 CU.YDS
STORAGE AVAIL. = 190 CU.YDS
CLEANOUT @ EL. 441.8'

SECTION

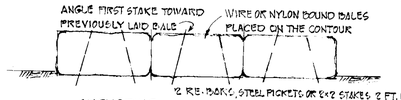


PLAN
STABILIZED CONSTRUCTION ENTRANCE
No SCALE

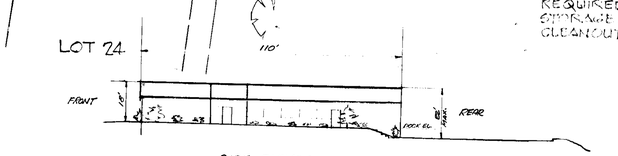




EMBEDDING DETAIL



STRAW BALE ANCHORING DETAIL



SIDE ELEVATION
1"=30'

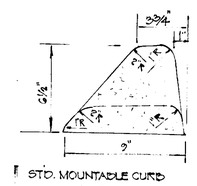
BITUMINOUS CONCRETE SURFACE	1½" BASE C-3
BITUMINOUS CONCRETE BINDER	5" GRAVEL MIX
CRUSHER RUN BASE	6"

CLEARING & GRADING	ARTICLE C-1
SUBGRADE	ARTICLE C-2
BASE COURSE	ARTICLE C-25
BINDER COURSE	ARTICLE C-31 OR C-32
SURFACE COURSE	ARTICLE C-31

NOTE: BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 AS PROVIDED IN THE HO. CO. ROAD CONSTRUCTION CODE & STD. SPEC., TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HO. CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

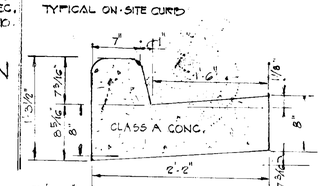
TYPICAL ON-SITE PAVING SECTION
No SCALE

NOTE: ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE HO. CO. ROAD CONSTRUCTION CODE.



STD. MOUNTABLE CURB
No Scale

TYPICAL ON-SITE CURB



STD. 7" COMB CURB & GUTTER
No Scale

ENGINEERS:
LAND DEVELOPERS CONSULTANTS
9088 B TOWN & COUNTRY BLVD.
ELLICOTT CITY, MD. 21043, 465-8518

GENERAL NOTES

1. TOTAL AREA OF TRACT 1.594 Ac. (69,435 S.F.)
2. BUILDING AREA 17,000 S.F.
3. BUILDING COVERAGE 24.5%
4. PARKING LOT - DRIVE COVERAGE 38.2%
5. NON-DEVELOPED PORTION 36.3%
6. OFFICE USE 5100 SQ.FT. PARKING REQUIRED 11 SPACES
7. WAREHOUSE USE 11,900 SQ.FT. - 12 EMPLOYEES (NON OFFICE) PARKING SPACES REQUIRED = 6 SPACES. TOTAL PARKING SPACES REQUIRED = 17 P.S.
8. PLAT REF. PLAT BOOK 18 FOLIO 8. TAX MAP 30
9. FINAL DEVELOPMENT PLAN Nº 28-A, EMPLOYMENT CENTER, INDUSTRIAL. RECORDED P.B. 14 F. 73-78
   NO RETAIL SALES ON SITE
   PARKING REQUIRED 17 SPACES
   PARKING SHOWN 26 SPACES
   ALL PARKING SPACES EXCEPT 2 SPACES Nº 20 & 21 ARE 10'x20', HANDICAPPED SPACES Nº 20 & 21 ARE 12'x20'

SITE DEVELOPMENT PLAN
FOR
OAKLAND RIDGE INDUSTRIAL PARK
SECTION TWO
LOT 25
COLUMBIA
2nd ELEC. DIST.
HOWARD CO., MARYLAND

SCALE 1"=30'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-26-77

DATE 8/31/77

PLAN PREPARED BY
RON WAGNER LAND DEVELOPMENT CONSULTANT
OFFICE: 8734 LOCH BEND DRIVE
BALTIMORE 21234 MD.

OWNER: MANELIN CORP.
SUITE 1803 #2 HOPKINS PLAZA
BALTIMORE 21201, MD.

SHEET 1 OF 1

SDP-78-33c

APPROVED: FOR PUBLIC WATER & PUBLIC SEWER
HOWARD COUNTY HEALTH DEPARTMENT
[signature] 12-22-77
DIRECTOR, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[signature] 12-23-77
PLANNING DIRECTOR DATE
[signature] 12-23-77
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAIN SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[signature] 12-4-77
DIRECTOR DATE
[signature] 12/12/77
CHIEF, BUREAU OF HIGHWAYS DATE

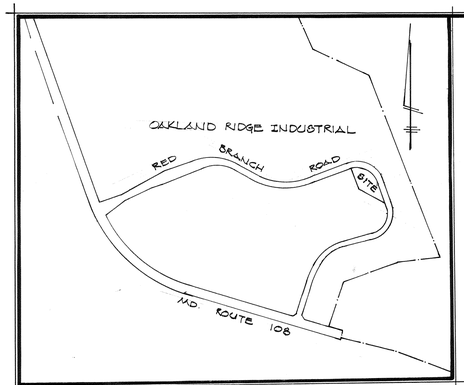
ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
[signature] 9/14/77

DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OR DEVELOPMENT AND PLAN FOR EROSION & SEDIMENT CONTROL WE AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HO. COUNTY CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HO. SOIL CONSERVATION DISTRICT.
W W W Limited 11/22/77

REVIEWED FOR HO. SOIL CONSERVATION DISTRICT & MEETS TECHNICAL REQUIREMENTS
[signature] 11/22/77
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION SERVICE.
[signature] 11-28-77
HOWARD SOIL CONSERVATION DISTR. DATE

SEDIMENT CONTROL NOTES:
1. OBTAIN GRADING PERMIT.
2. THE HO. CO. BUREAU OF LICENSE, INSPECTIONS & PERMITS SHALL BE GIVEN 24 HRS NOTICE PRIOR TO ANY GRADING
3. ALL SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN UNLESS OTHERWISE SPECIFIED SHALL BE INSTALLED IN ACCORDANCE WITH NOTE B
4. ALL SLOPES SHALL BE MAX. 3 TO 1.
5. FOLLOWING THE STABILIZATION OF ALL AREAS TO BE UPGRADED, THE AREA OF SEDIMENT CONTROL MEASURES MAY BE REMOVED & GRADED TO THE FINAL GRADES SHOWN & STABILIZED IMMEDIATELY.
6. IN THE EVENT OF EXCESS MATERIAL, EXCESS SHALL BE STOCKPILED WITH A MAX. SLOPE OF 3:1 IN AN AREA WHICH HAS BEEN CLEARED ON-SITE. STOCK PILED MATERIAL SHALL BE STABILIZED IN ACCORDANCE WITH NOTE B.
7. SEDIMENT CONTROL MEASURES WILL NOT BE REMOVED UNTIL APPROVAL IS OBTAINED FROM HO. CO. BUREAU OF PERMITS, INSPECTION & LICENSE.
8. PERMANENT STABILIZATION.
   APPLY: 2000 lbs. PER AC. OF PULVERIZED DOLOMITIC LIMESTONE.
   700 lbs. NITROGEN PER AC. OF 0-20-0 SUPER PHOSPHATE.
   1000 lbs. PER AC. OF 10-10-10 FERTILIZER
   SEED: 95 lbs. PER AC. OF KENTUCKY 31 TALL FESCUE & 25 lbs PER AC. OF ANNUAL RYE GRASS.
   NOTE: SEED BETWEEN MAR. 1 - MAY 1 OR AUG. 1 - OCT. 1 ONLY.
   MULCH: 2 TONS PER AC. OF UNWEATHERED WHEAT STRAW
   TIE DOWN MULCH WITH 480 GAL. PER AC. OF LIQUID ASPHALT.

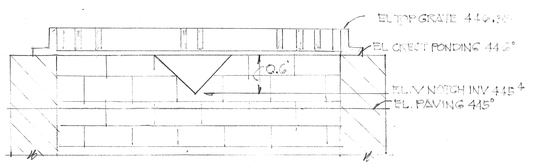


VICINITY MAP
SCALE: 1"=800'

SITE ANALYSIS — AREA TO BE REVEGETATED
1. TOTAL AREA OF SITE = 1.594 AC.
2. DISTURBED AREA = 1.23 AC.
3. TOTAL AREA PAVED = 0.62 AC.
4. TOTAL CUT = 6000 CUYDS.
5. TOTAL FILL = 6000 CU.YDS.

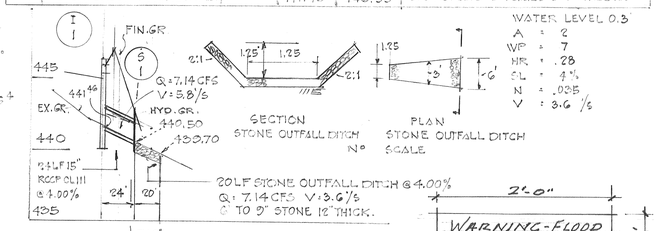
CONSTRUCTION SEQUENCE
1. INSTALL SEDIMENT MEASURES
2. GRADE SITE
3. CONSTRUCT PAVEMENT & STORM DRAINS
4. CONSTRUCT BUILDING

STRUCTURE SCHEDULE					
Nº	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS
S-1	HO. CO. STD. TYPE C ENDWALL	-	440.50	SET IN FIELD	SEE HO. CO. STD. DETAILS D-P2 PAGE 107



MODIFIED S INLET I-1 WITH 90°V NOTCH NORTH FACE OF INLET
Nº SCALE

STRUCTURE SCHEDULE					
Nº	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS
I-1	HO. CO. CLASS C MODIFIED INLET	-	441.46	446.33	SEE HO. CO. STD. DETAILS D-P2 PAGE 103



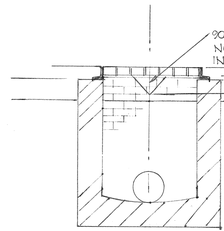
34 LF 15" RCCP CL III @ 4.00%

20 LF STONE OUTFALL DITCH @ 4.00%
Q = 7.14 CFS V = 3.6'/s
6" TO 9" STONE 12" THICK.

SECTION
STONE OUTFALL DITCH
Nº SCALE

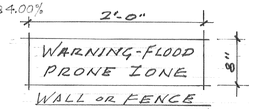
PLAN
STONE OUTFALL DITCH
Nº SCALE

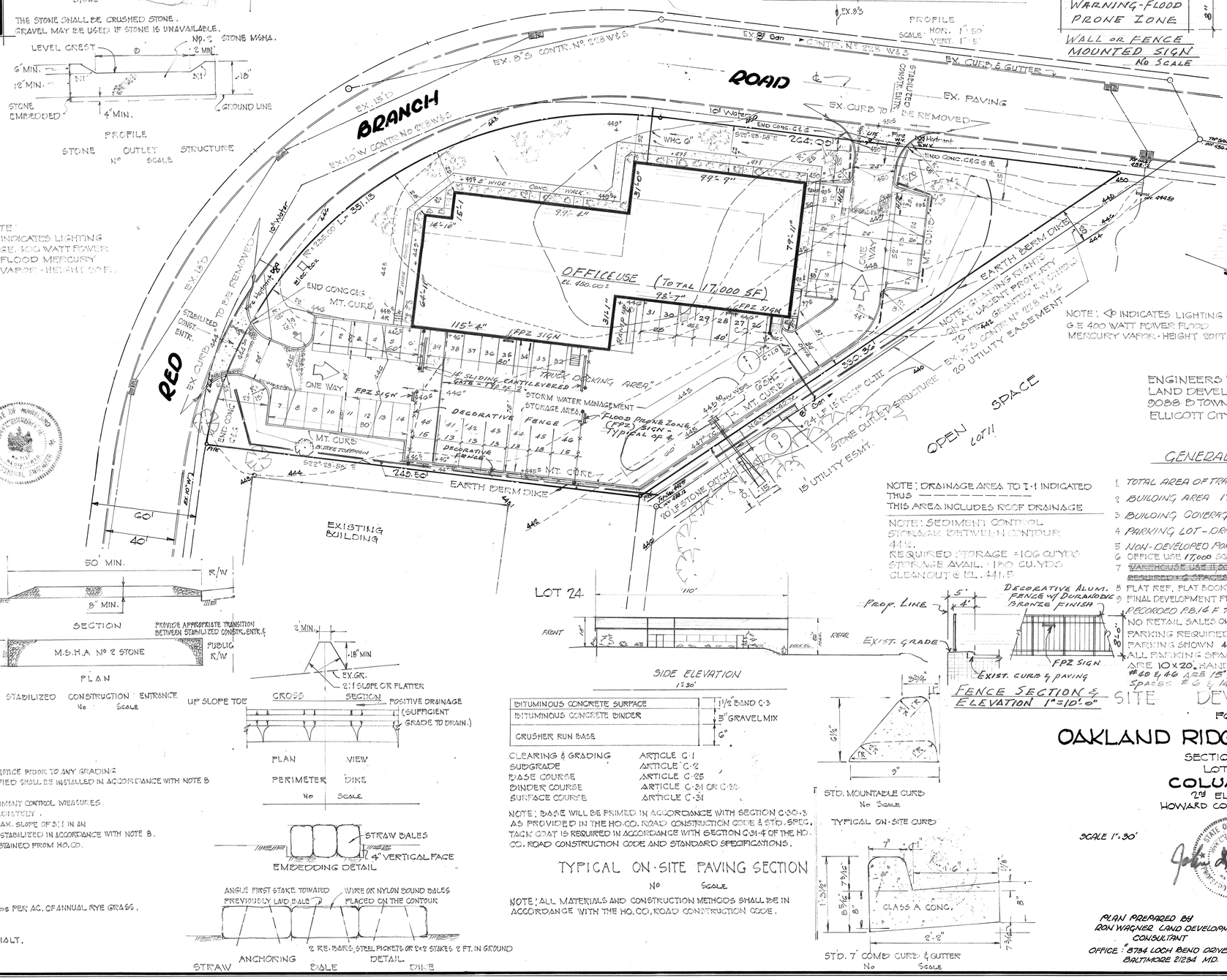
PROFILE
SCALE - HOR. 1"=50'
VERT. 1"=5'



MODIFIED CLASS 'S' INLET I-1
Nº SCALE

STORM WATER MANAGEMENT DATA
1. REQUIRED PARKING AREA STORAGE BASED ON 1.024 AC = 5800 CU. FT.
2. STORAGE SHOWN = 7700 CU. FT.
3. 2 YR. STORM BEFORE DEVELOPMENT
AREA = 1.024 AC
RUNOFF COEFF. = 0.2
I_{25} = 3.7 BASED ON 15 MIN.
Q_{25} = 0.76 CFS MAX. RELEASE RATE
4. METHOD OF OUTFLOW
90°V NOTCH IN NORTH FACE OF I-1
H = 0.6' RELEASE Q = 0.714 CFS.




EX. 8" S CONTR. Nº 225 W&S
EX. CURB & GUTTER
EX. PAVING
EX. CURB TO BE REMOVED
RED BRANCH ROAD
EX. 15" D
EX. 10" W CONTR. Nº 218 W&S
EX. 15" D
1" Water
END CONC. CRS
SCS 28+58.58
224.00'
WHG 6"
Fire Hydrant
EX.W.
END CONC. CRS
Fire Hydrant
EX.W.
EX. 8" S
EX. 8" S
EX. 8" S