

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC.

ENGINEERS

303 ALLEGHENY AVE. TOWSON, MD. 21204

SILT FENCE DETAIL BUILDING A SILT FENCE A STEP BY STEP PROCEDURE STAPLE WIRE FENCING TO THE SET POSTS AND EXCAVATE - EMBED FILTH CLOTH IN GROUND 4" MIN POSTS: STEEL EITHER T & U TYPE OR 2" HARDWOOD FENCE: WOVEN WIRE, 14 1/2 Go MOL 6" MESH OPENING ATTACH FILTER FABRIC TO WIRE PILTER CLOTH: FILTER X BACKFILL WITH COMPACTED MIRIFE HOOK, LAUREL EROSION CONTROL CLOTH FENCE, ALLOWING EXTENSION INTO TRENCH AS SHOWN POLYFETER X OR EQUAL AREA LESS THAN IVE ACRE STANDARD DRAWING U.S DEPARTMENT OF AGRICULTURE STANDARD DRAWING SOIL CONSERVATION SERVICE COLLEGE PARK, MD.

COLUMBIA BASIN-6.18-Act DRAINAGE AREA MAP

SEDIMENT CONTROL

GENERAL NOTES

- 1) Any change to the grading proposed on this plan requires it to be resubmitted to the Soil Conservation District. 2) All slopes 3:1 and steeper are to be stabilized with Permanent Slope
- seeding immediately after grading operation. (See Note No. 12)
- 3) All other disturbed areas not intended to be paved or receive building coverage, shall be stabilized with permanent seeding. (See Note No. 11).
- 4) Any damage to diversion dikes, silt fence, sediment basin, etc. during grading operation or utility installation shall be repaired immediately.
- 5) The sediment basin is to be cleaned out when silt deposits reach cleanout elevation shown on the plan.
- 6) No sediment control measure is to be removed without prior permission from the Sediment Control inspector.
- 7) Upon installation of storm drain, inlets shall be kept plugged until site is stabilized except as noted on the plan. Positive drainage must be maintained at all times.
- 8) During the layout of sediment control practices shown hereon, minor adjustments can and will be made to assure the arrest and control of any sediment before it leaves the construction site. These said changes require prior approval from the Sediment Control Inspector and the Soil Conservation District.
- 9) All site work is to be done in accordance with "Standards and Specifications For Soil Erosion and Sediment Control in Developing Area", July 1975, and this plan of sediment control approved by the Howard Soil Conservation District, and the Howard County Department of Public Works.
- 10) At the end of each working day, all sediment control measures will be inspected and left in operational condition.
- 11) All disturbed areas shall be stabilized as follows:

ENGINEER'S CERTIFICATION!

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDI-

MENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN

BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDI-

TIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH

THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION

8930 1-12-82

REG.NO. DATE

DISTIBICT. frata Charantes

TAPOBRATA CHAKRABARTI

Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding. Use 2" of topsoil. Soil Amendments: Apply 2 tons per acre dolomitic limestone (92 lbs./1,000 s.f.) and 600 lbs. per acre 0-20-20 fertilizer (14 lbs./1,000 sq.ft.). Harrow or disc lime and fertilizer into upper three inches of soil. At time of seeding, apply 400 lbs. per acre (9.2 lbs./1,000 sq.ft.) of 38-0-0 ureaform fertilizer and 500 lbs. per acre (11.5 lbs./1,000 sq.ft.) of 10-20-20-

Seeding: For the periods March 1 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1,000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1,000 sq.ft.) of weeping lovegrass. During the period of October 16 through 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.

500 SPECIFICATION (SODDED DITCH): Sod Shall Be K-31 Sod Which Has Not Been Cut And Rolled More Than 2 Days In Advance; All God Shall Be Fastened Securely With At Least 2 Stakes Not More Than 2 Feet Apart With The Flat Gide Against The Slope And Stake Flush With Top Of Sod; Lima And Fertilize God Bed As Specified In Note #11.

- Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1,000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gallons/1,000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gallons/1,000 sq.ft.) for anchoring. Maintenance: Inspect all seeded areas and make needed repairs, replacements, and reseedings.
- 12) PERMANENT SLOPE SEEDING: Spreading 4" of topsoil, seed shall be a mixture of 30% innoculated Crown Vetch and 70% Kentucky 31 Tall Fescue applied at at a rate of 60 lbs. per acre fertilizer and mulching shall be the same as Note No. 11 above.
- 13) TEMPORARY SEEDING: Seedbed Preparation: Loosen upper 3 inches by discing, raking or other Soil Amendments: Apply 600 lbs. per acre (15 lbs./1,000 sq.ft.) of 10-20-10

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2 1/2 bushels per acre (3.2 lbs./1,000 sq.ft.) of annual rye. For the period May 1 through August 14 seed with 3 lbs./acre (0.07 lbs./1,000 sq.ft.) of weeping lovegrass. Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1,000 sq.ft.) of

unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gallons/1,000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher use 348 gallons per acre (8 gallons/1,000 sq.ft.) for anchoring.

14) Sediment basin shall be constructed in accordance with the approved storm water management pond specifications and details.

SEQUENCE OF OPERATIONS

- 1.. Notify Howard County Department of Licenses and Permits Inspector at least 48 hours before beginning any work.
- 2. Install stabilized construction entrance and silt fence.
- 3. Install sediment basin and plug lower orifice opening (See Detail Sheet 4 of (Q_{ij}) . Sediment basin to be constructed in accordance with the approved storm water management pond specifications.
- 4. Begin major grading, maintaining positive drainage to sediment basin, except for the shaded area which will be graded to final subgrade after the storm
- drain system is complete. 5. Install storm drains from E-I to I-2 and plug (See Detail Sheet 4 of 6).
- 6. Grade shaded area to subgrade and install remaining drain from 1-2 to 1-3
- and install silt fence around 1-3.
- 7. Install other utilities.
- 8. Install foundation walls for building and retaining walls around dock area. Lay subbase in areas receiving building coverage and paving.
- 9. Install curb and gutter and pave areas receiving paving.
- 10. Fine grade remaining areas and stabilize.
- 11. Remove diversion dikes and stabilized construction entrance and unplug storm drains after obtaining permission from Sediment Control Inspector. Pave area hised as construction entrance.
- Upon final approval of Sediment Control Inspector, convert sediment basin to storm water management pond by: 1) Removing any sediment and restabilizing if necessary, 2) Removing plug from lower orifice and 3) Removing silt fence.

APPROVED

PLANNING BOARD

OF HOWARD COUNTY

APPROXIMATE GRADING QUANTITIES TOTAL CUT ____ __ __ 12,090C.Y.

+ 10% SHRINKAGE --- 1,090 C.Y. TOTAL FILL _____I,980 CY. EXCESS --- 110C.Y

NOTE = Excess To Be Used For Additional Landscape Mounding" (To Be Determined In Field)

APPROVED! FOR PUBLIC WATER AND PUBLIC SEWER AGE SYSTEM, HOWARD CO. HEALTH DEPARTMENT COUNTY HEALTH OFFICER: TOWN BY LUNGS, DATE: APPROVED: HOWARD CO. OFFICE OF PLANNING AND PLANNING DIRECTOR PROMENT HONG PATE:

CHIEF OF LAND DEVELOPMENT HAND LAND ZONING ADMINISTRATION FAMILY WANTED TE: 6-7-8 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE. STORM DRAINAGE SYSTEMS, AND ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR: _ LIGH F. NUMBER OF ENGINEERING: COM HOWARD SOIL CONSERVATION DISTRIC THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION OF JOHN APPROVED: HOWARD SOIL CONSERVATION DIST. DATE: REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: James M. Hela DATE: 5/21/82 THE UNITED STATES SOIL CONSERVATION SERVICE

SEDIMENT & EROSION CONTROL-DETAILS FOR PROPOSED FACILITY FOR "ELECTRO-NUCLEONICS INC." PARCEL'C 6.6320 ACREST "RIVERS CORPORATE PARK"

SECTION I, AREA! HOWARD CO., MD TAX MAP 41 & 42 ELECT. DIST. #6

SCALE: AS SHOWN SHEET 4 OFG

I HEREBY CERTIFY THAT ALL, DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHOR-IZED AGENTS AS DEEMED NECESSARY. I AUSO CERTIFY THAT ANY RESPONSIBLE PERSON 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 BEGINNING THE PROJECT.

SIGNED: (Warlello TITLE: V.P. Operation DATE: 1/24/82 OWNER

ELECTRO-NUCLEONICS

9033 RED BRANCH ROAD COLUMBIA, MD 21045

McCormick Properties, Inc. IL DESIGN/BUILDERS

11011 MS CORNICK ROAD HUNT VALLEY, MARYLAND 21031

667-7700

9. West Mulberry Street

301 - 837 - 5040

Baltimore Maryland 21201

DESIGN : T.L.B. DRAWN : T.L.B. CHECK : T.C. P.N. 04575

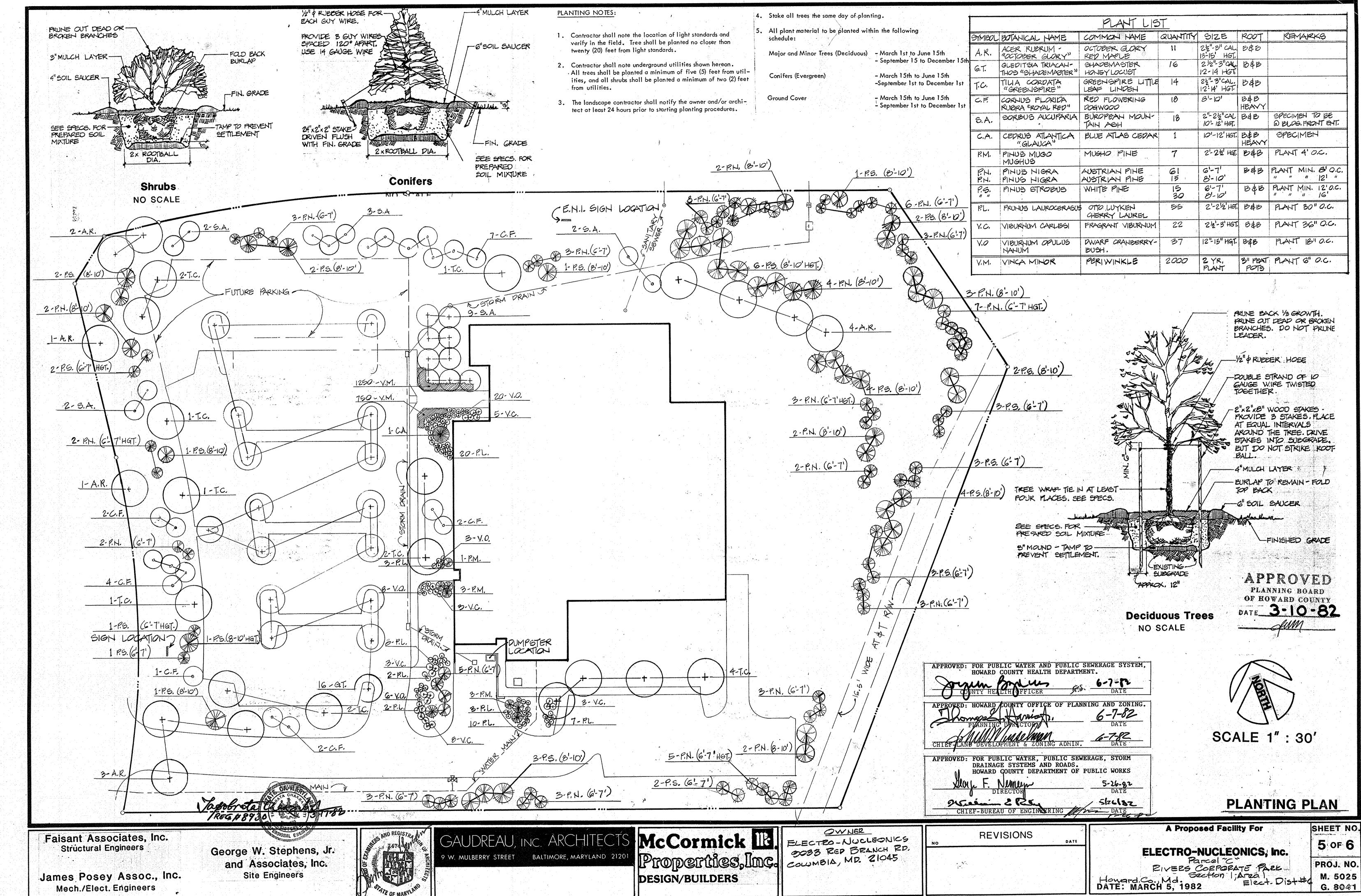
Gaudreau, Inc.

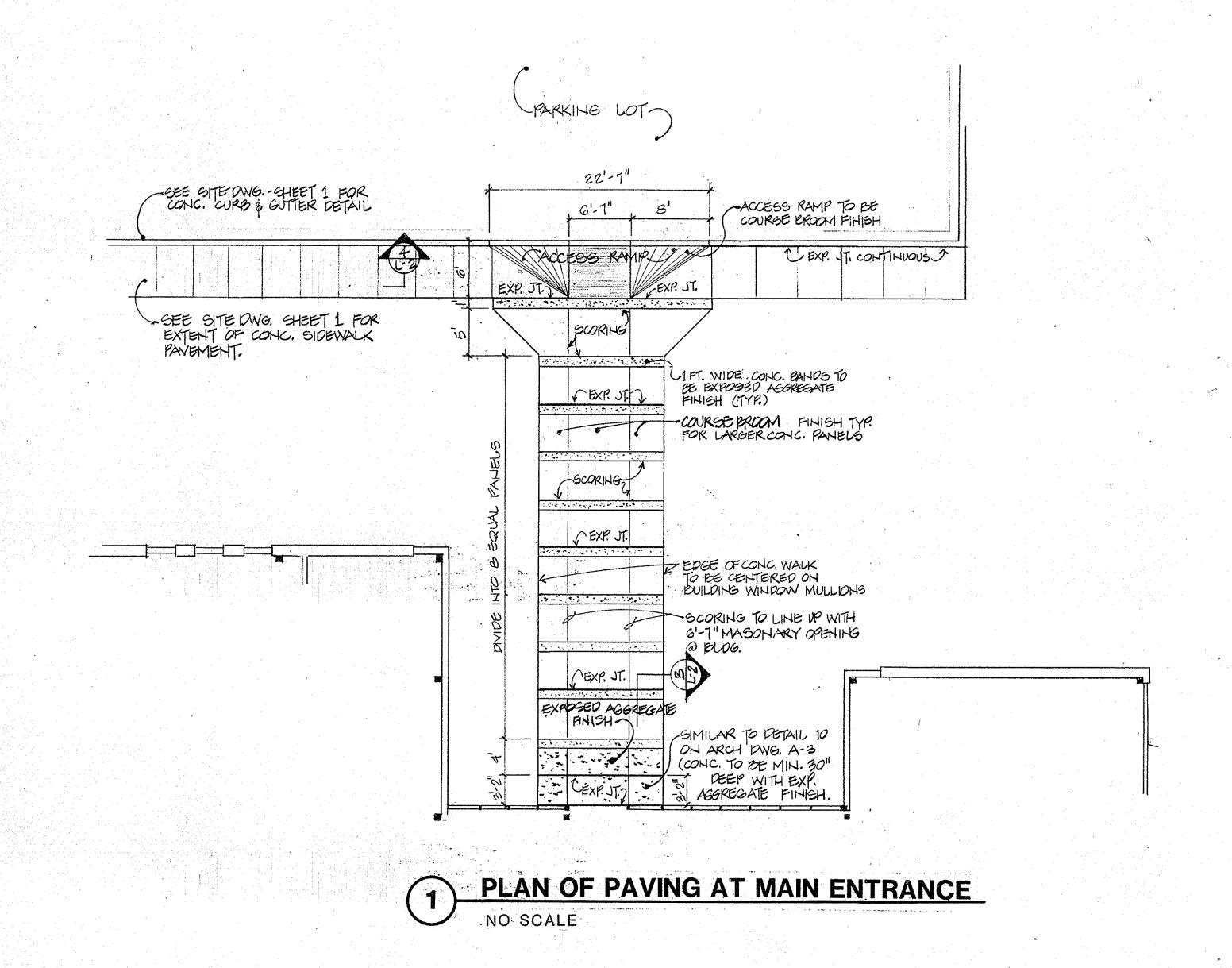
Architects Planners Engineers

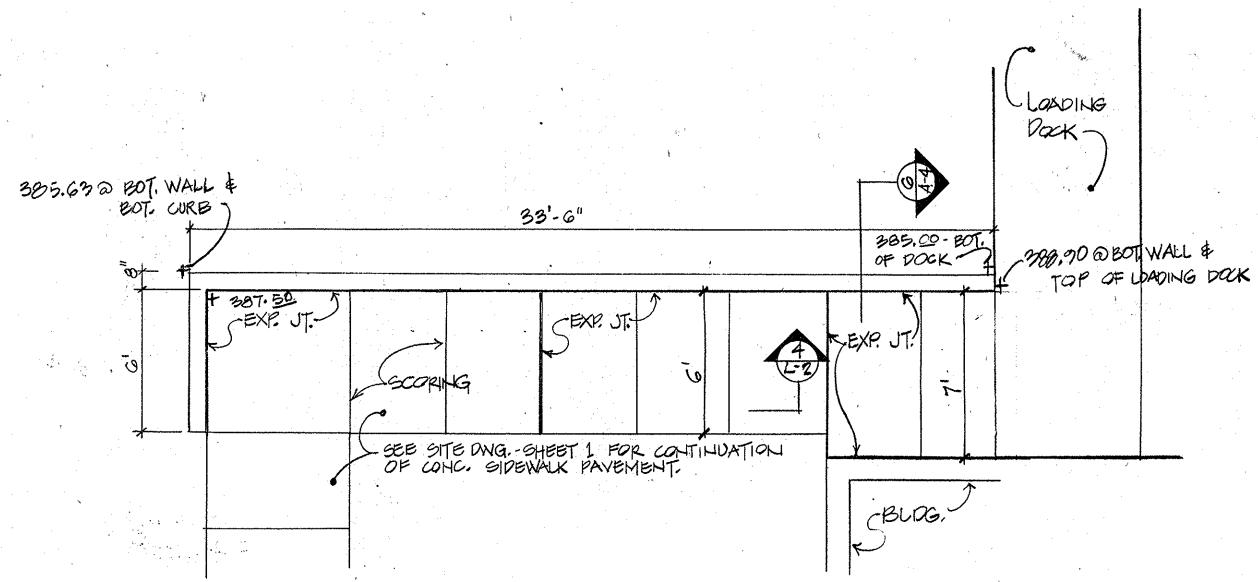
REVISIONS

SDP-82-790

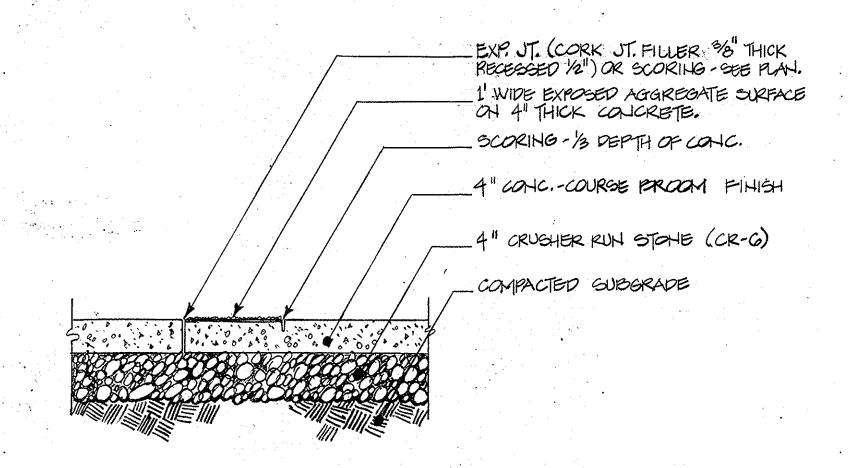
JANUARY 12, 1980

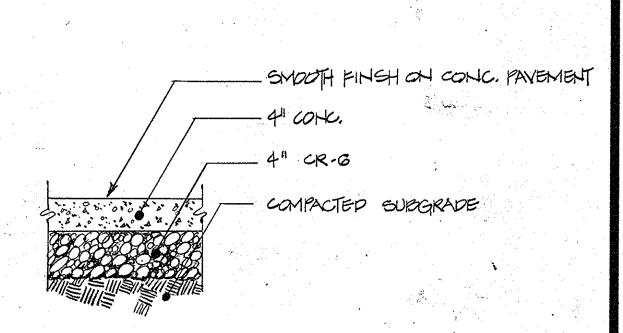




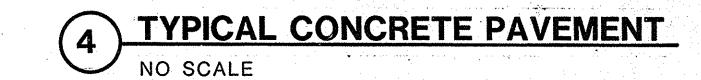


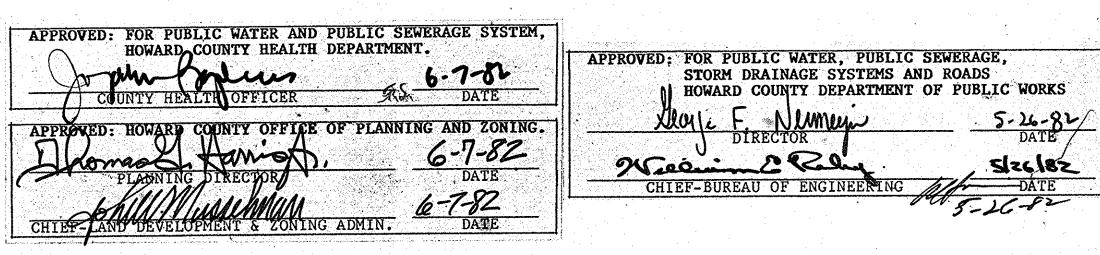
GUARD WALL AT LOADING DOCK ENTRANCE NO SCALE





CONCRETE PAVEMENT AT MAIN ENTRANCE NO SCALE





APPROVED PLANNING BOARD OF HOWARD COUNTY DATE 3-10-82

CONCRETE PAVEMENT DETAILS

Faisant Associates, Inc. Structural Engineers

James Posey Assoc., Inc. Mech./Elect. Engineers

George W. Stephens, Jr. and Associates, Inc. Site Engineers



GAUDREAU, INC. ARCHITECTS McCormick 112 9 W. MULBERRY STREET BALTIMORE, MARYLAND 2120

Properties, Inc. DESIGN/BUILDERS

OWNER ELECTRO - NUCLEONICS 9033 RED BRANCH PD. COLUMBIA, MD. 21045

REVISIONS DATE

SHEET NO A Proposed Facility For 6 OF 6

ELECTRO-NUCLEONICS, Inc.

Parcel Corporate Park

PROJ. NO.

Howard Co., Md. Section 1, Area |

DATE: MARCH 5, 1982

Elect, Dist.#6

G. 8041

5DP-82-79c