NOTES:

I. ALL CONSTRUCTION TO COMPLY WITH CURRENT OSHA AND IBC REQUIREMENTS IN ADDITION TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND FINAL PLANS

II. SITE PLAN AND EXISTING FEATURES DIMENSIONS AND LOCATIONS BASED ON LIMITED FIELD OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS. MARK OUT THE LIMITS OF THE REMEDIAL WORK FOR AGREEMENT BETWEEN THE OWNER, CONTRACTOR, AND GEOTECHNICAL CONSULTANT PRIOR TO CONSTRUCTION. VERIFY CRITICAL DIMENSIONS. A FOLLOW-UP SURVEY IS SUGGESTED TO CONFIRM AND FINALIZE DIMENSIONS, ELEVATIONS, AND QUANTITIES.

III. LOCATE AND MAKE SAFE ALL ABOVE- AND BELOW-GROUND UTILITIES IN THE WORK AREA. IF INTERFERENCE WITH THE PROPOSED WORK IS IDENTIFIED, COORDINATE A REVISED WORK PLAN WITH THE PROJECT TEAM.

IV. PLANS PROVIDE FOR A STABLE (F.S. 1.5) FINAL CONDITION. CONTRACTOR RESPONSIBLE FOR STABILITY DURING CONSTRUCTION. PROTECT FROM WATER EXPOSURE. DO NOT OVERDIG. NOTIFY PROJECT TEAM IF UNSUITABLE SUBSOIL IS ENCOUNTERED. UNDERCUT AND REPLACE AS DIRECTED.

V: MATERIALS:
FILTER FABRIC, MIRAFI 140N OR EQ.
GEOGRID, MIRAFI 2XT OR EQ. (LONG TERM ALLOWABLE DESIGN LOAD 1,000 PLF OR BETTER).
FILL, AASHTO A-1, OR A-2, OR EQ. PER APPROVAL OF GEOTECH (<35% FINES, FREE-DRAINING). COMPACT TO 95% STD. PROCTOR, MIN. BELOW SWALE, SLAB, AND STAIR, COMPACT TO 90% OF STD. PROCTOR AT OPEN LAWN AREAS.
RIP RAP, 2" - 6" STONE
GRAVEL SLAB AND STAIR BASE COURSE, 57 STONE
FACING, CURLEX STD. EROSION CONTROL, OR EQ.
CEMENT GROUT, 2500 PSI NOM.

PROVIDE MATERIAL CERTIFICATIONS FOR MANUFACTURED PRODUCTS. FOR NATURAL PRODUCTS, PROVIDE SAMPLES FOR PRIOR APPROVAL, AND DELIVERY RECORDS (SUPPLIER, DESCRIPTION, SOURCE, QUANTITY, ETC.)

STORE, MAINTAIN, AND INSTALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

VI. CONTRACTOR QUALIFICATIONS: CONTRACTOR TO PROVIDE STATEMENT OF QUALIFICATIONS AND REPRESENTATIVE PROJECTS WITH SIMILAR WORK TO OWNER FOR APPROVAL.

VII. CONTRACTOR SUBMITTALS:
SUBMIT A MATERIALS AND EQUIPMENT LIST AND WORK PLAN TO THE OWNER FOR REVIEW AND APPROVAL/COMMENT PRIOR TO CONSTRUCTION.
PROVIDE A REPORT OF THE COMPLETED REPAIR, NOTING ANY DEVIATIONS FROM THE PROJECT PLANS.
PROVIDE MATERIAL CERTIFICATIONS AND DELIVERY RECORDS FOR MATERIALS USED ON THE PROJECT.

VIII. FOLLOW-UP MONITORING OF THE REPAIRED SLOPE IS RECOMMENDED, TO CONFIRM ACCEPTABLE PERFORMANCE.

SEQUENCE:

I. PREPARATION

LOCATE UTILITIES (HAND-DIG OR SIM.). VERIFY FUNCTIONALITY OF FOUNDATION DRAIN ALONG STAIRS AND REPAIR IF NEEDED.

II. SLAB AND STAIR REPLACE-IN-KIND.

DURING DEMOLITION, REFER TO SLAB AND STAIR DETAILS HEREIN AND NOTIFY ENGINEER (HCEA) AND OWNER OF ANY SIGNIFICANT DEVIATIONS IN THE AS-BUILT CONSTRUCTION.

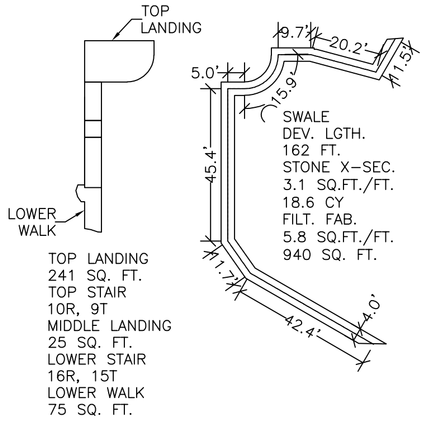
ARRANGE FOR A PRECONSTRUCTION SURVEY AND MONITORING OF ADJACENT FEATURES.
IF ANY DISTRESS IS OBSERVED OR ANTICIPATED, NOTIFY THE PROJECT TEAM AND ARRANGE FOR STABILIZATION AND A MODIFIED WORK PLAN.

EXCAVATE SLAB AND STAIR SUBSOIL SIMILAR TO THE SLOPE REPAIR. UNDERCUT AND REPLACE POOR SOIL BELOW THE REPAIR PER GEOTECH. REPLACE SLAB AND STAIR SUBSOIL, COMPACTED TO 95% STD. PROCTOR. PROVIDE 6" GRAVEL (FREE-DRAINING) SUB BASE (REC RC-6, CR-6).

REPLACE SLAB AND STAIR IN-KIND (COORDINATE W/ ENGINEER (HCEA) TO RESOLVE ANY INCONSISTENCY BETWEEN THE DRAWINGS PROVIDED AND THE AS-BUILT STRUCTURE)

III. SLOPE RECONSTRUCTION AND SWALE.

MEASURE/SURVEY TO PLAN CONTOURS AND FINAL QUANTITIES.
LOCATE UTILITIES (HAND-DIG OR SIM.). NOTIFY PROJECT TEAM OF SHALLOW UTILITY CONFLICTS. REPAIR SLOPE AROUND AND OVER CONFLICTING UTILITIES. STEP-BENCH THE SLOPE EXCAVATION.
IDENTIFY POOR SUBSOIL. UNDERCUT AND REPLACE AS DIRECTED. FACE-WRAP AND LAP REINFORCING TO LAYER ABOVE. APPLY CURLEX BLANKET TO SUPPORT RE-VEGETATION.

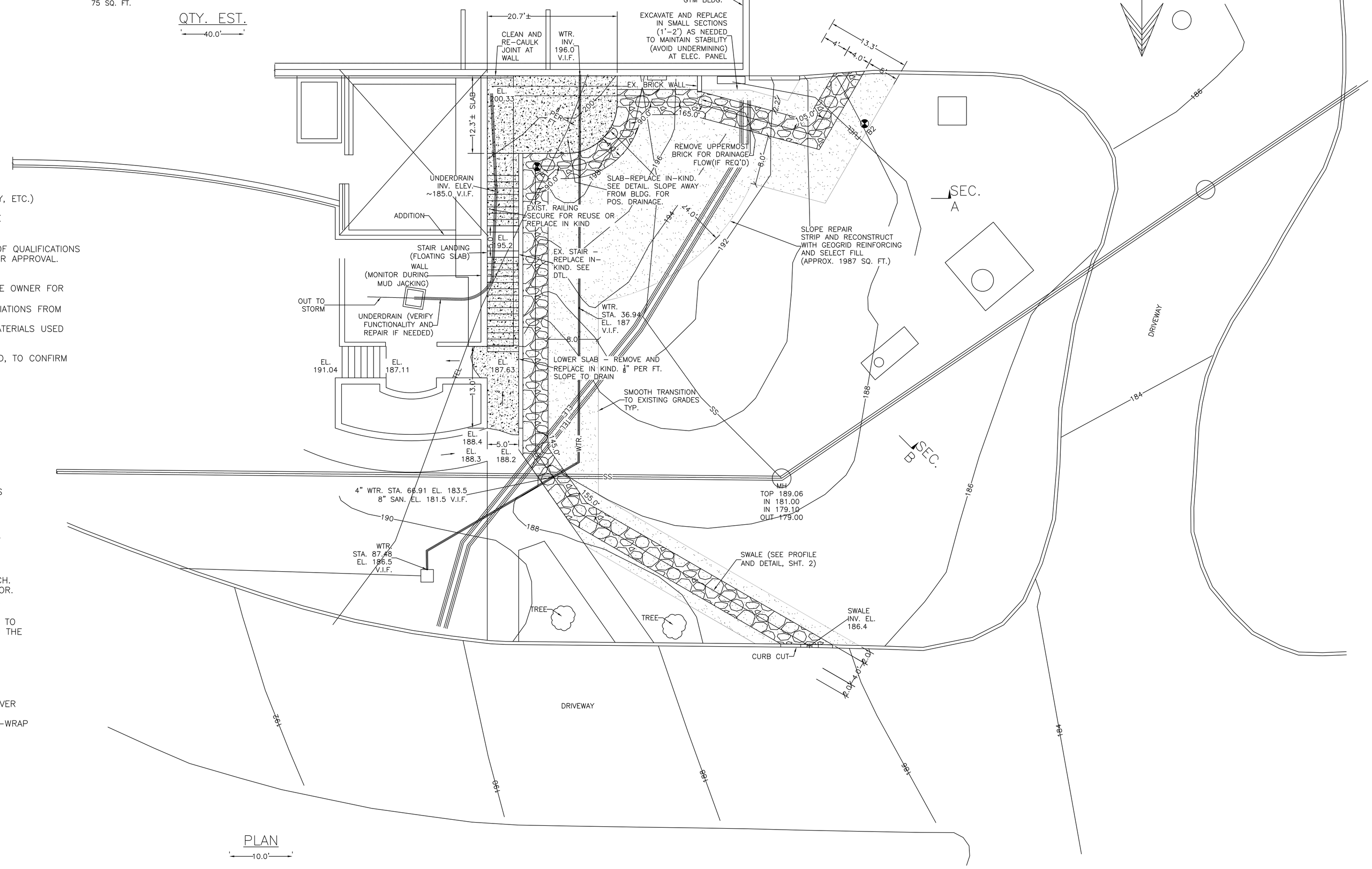




QUANTITIES PROVIDED ARE PRELIMINARY ENGINEERS, ESTIMATES. CONTRACTOR AND OWNER TO SURVEY SITE AND AGREE ON INITIAL ESTIMATE AND MEANS OF DETERMINING FINAL QUANTITIES PRIOR TO CONSTRUCTION.

SLOPE STRIP AND RECONSTRUCT
APPROX. 2086 SQ. FT. @ 2' AVG. THK.
155 CY.

QTY. EST.
40.0'



PLAN
10.0'

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 0028925, EXPIRATION DATE: 1/15/2020.

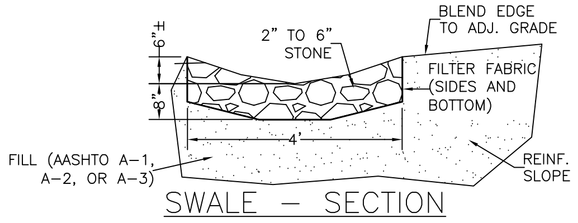
STATE OF MARYLAND — PAUL RUSSELL — 0028925 — PROFESSIONAL ENGINEER — 08/15/19

HILLIS-CARNES ENGINEERING ASSOCIATES
10975 Guilford Road, Suite A Annapolis Junction, Maryland
(410) 880-4788 WWW.HCEA.COM Fax: (410) 880-4098

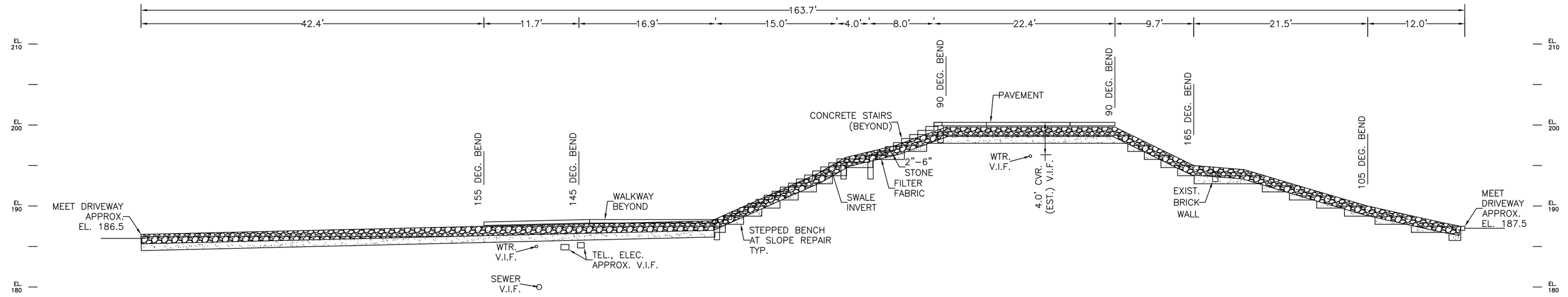
GYM WALL SLOPE REPAIR - GENERAL NOTES AND PLAN
COLLEGE OF SOUTHERN MD
CHARLES COUNTY, MD.

REVISION NO.	DESCRIPTION	DATE
1	ORIG. 8/5/19	
2	SLAB AND STAIR REPLACE IN KIND, SLOPE REPAIR DETAILS CLARIFIED 8/15/19	

JOB NUMBER: 17041-A	DESIGNED BY: PR	1 of 2	
SCALE: AS SHOWN	DRAWN BY: PR		
DATE: 08/05/2019	APPROVED BY: PR	SHEET	

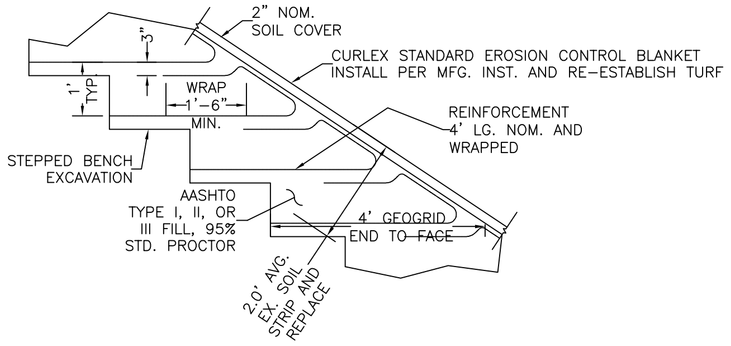


SWALE – SECTION



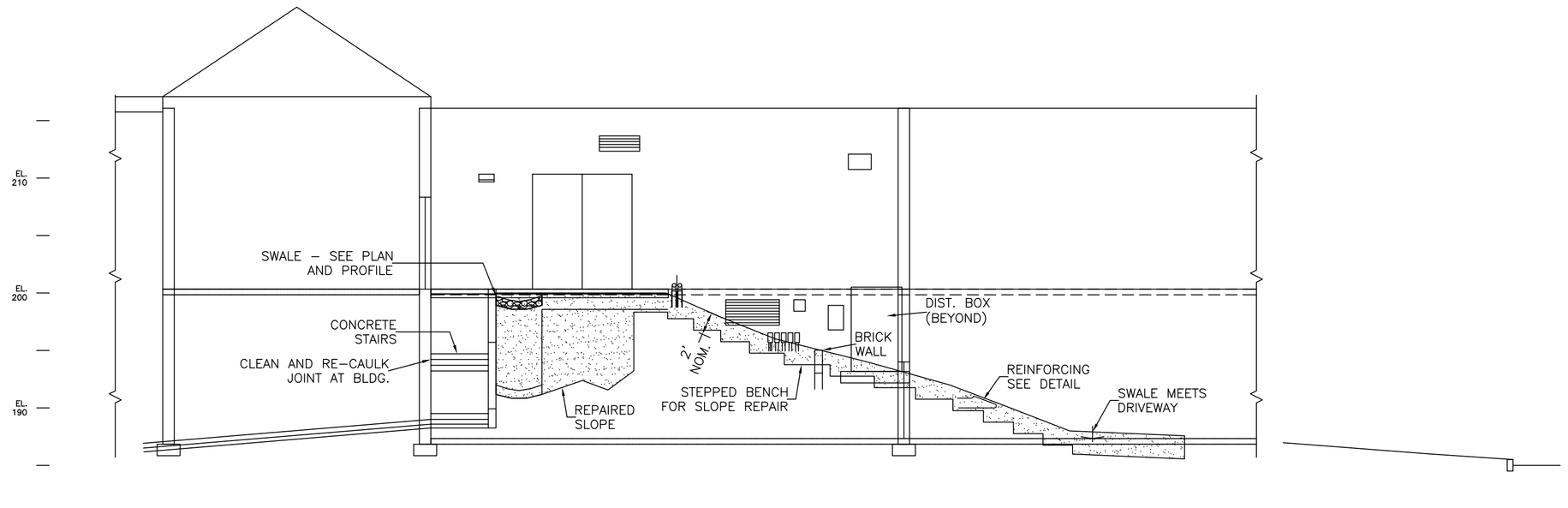
SWALE – PROFILE

10.0'



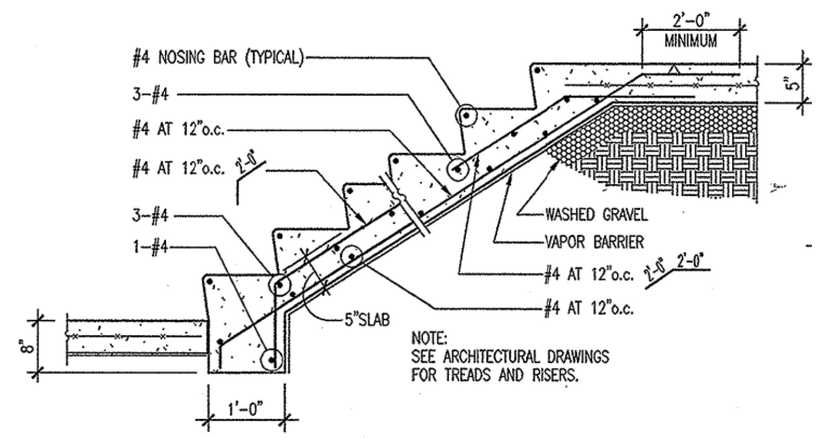
SLOPE REPAIR – TYP. SECTION

10.0'



SECTION A

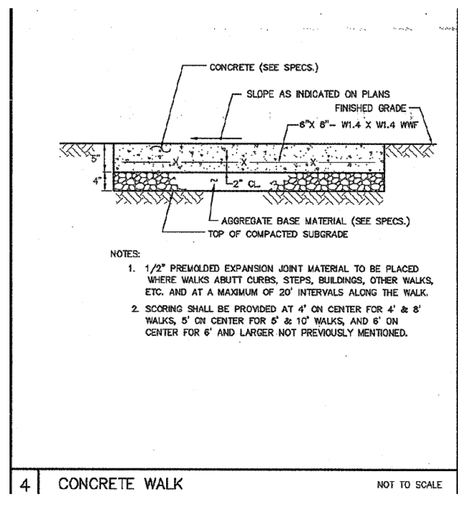
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IL TYPICAL CONCRETE STAIR ON GRADE DETAIL

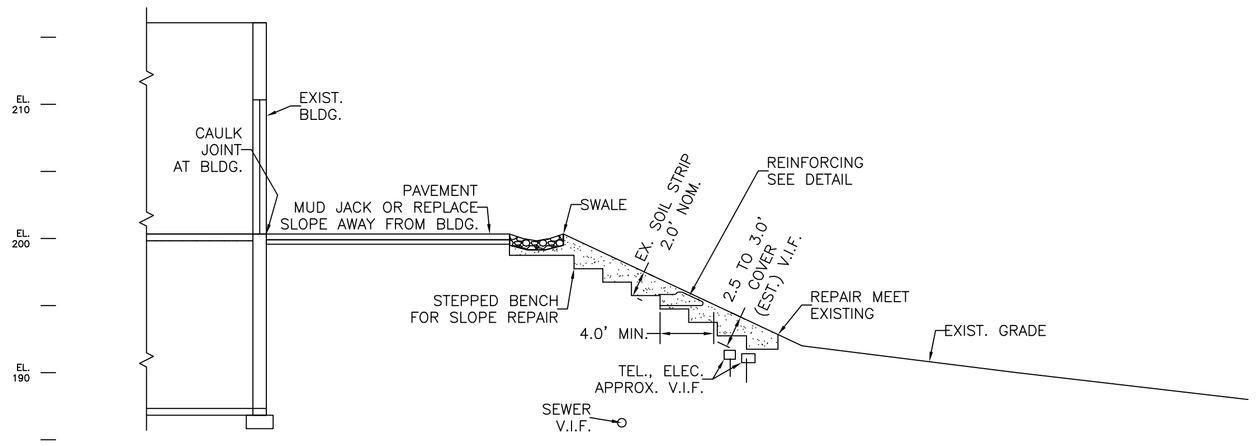
STAIR ON GRADE
TYPICAL DETAIL (REPLACE IN KIND)

10.0'



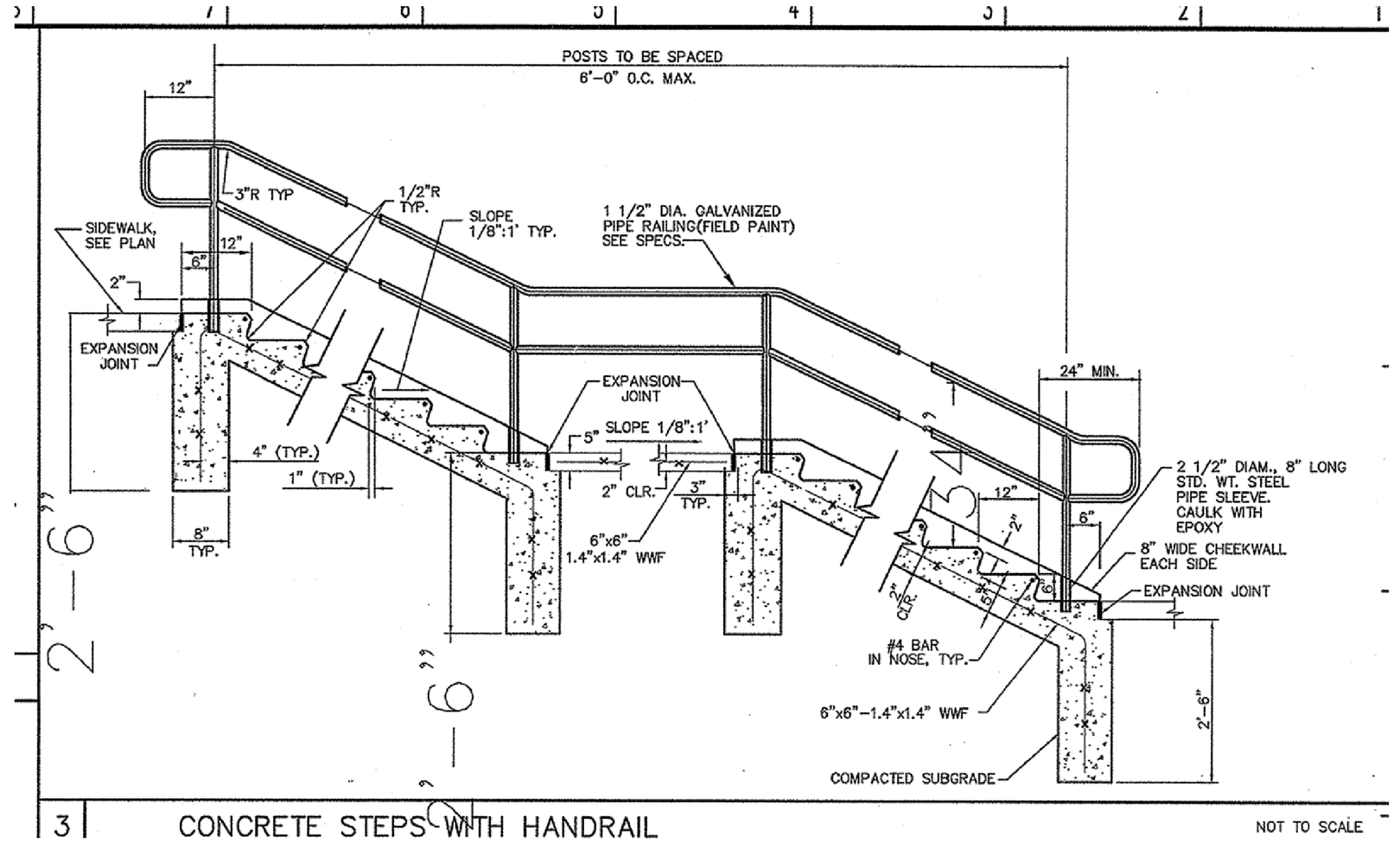
SLAB ON GRADE
TYPICAL DETAIL (REPLACE IN KIND)

10.0'



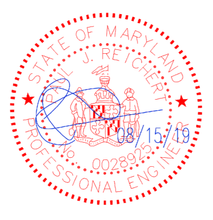
SECTION B

10.0'



STAIR AT RET. WALL DETAIL (REPLACE IN KIND)

10.0'



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 0028925, EXPIRATION DATE: 1/15/2020.

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GYM WALL SLOPE REPAIR - PROFILE, SECTIONS, AND DTLS.

COLLEGE OF SOUTHERN MD

CHARLES COUNTY, MD.

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2 of 2

SHEET