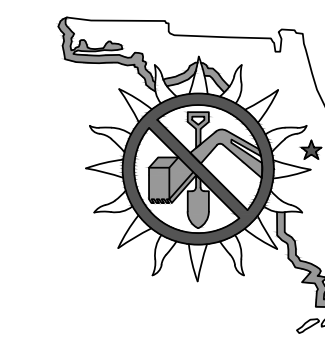


CIVIL CONSTRUCTION PLANS FOR: COLONY CLUB DRAINAGE SWALE

PREPARED FOR:
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA



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Paul Casto	Ward I/Vice Mayor
Phil Chester	Ward II
Mary Coburn	Ward III
Michael Jarman	Ward IV
Drew Whitman	City Manager
Holly White	Assit. City Manager

PREPARED BY:



203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

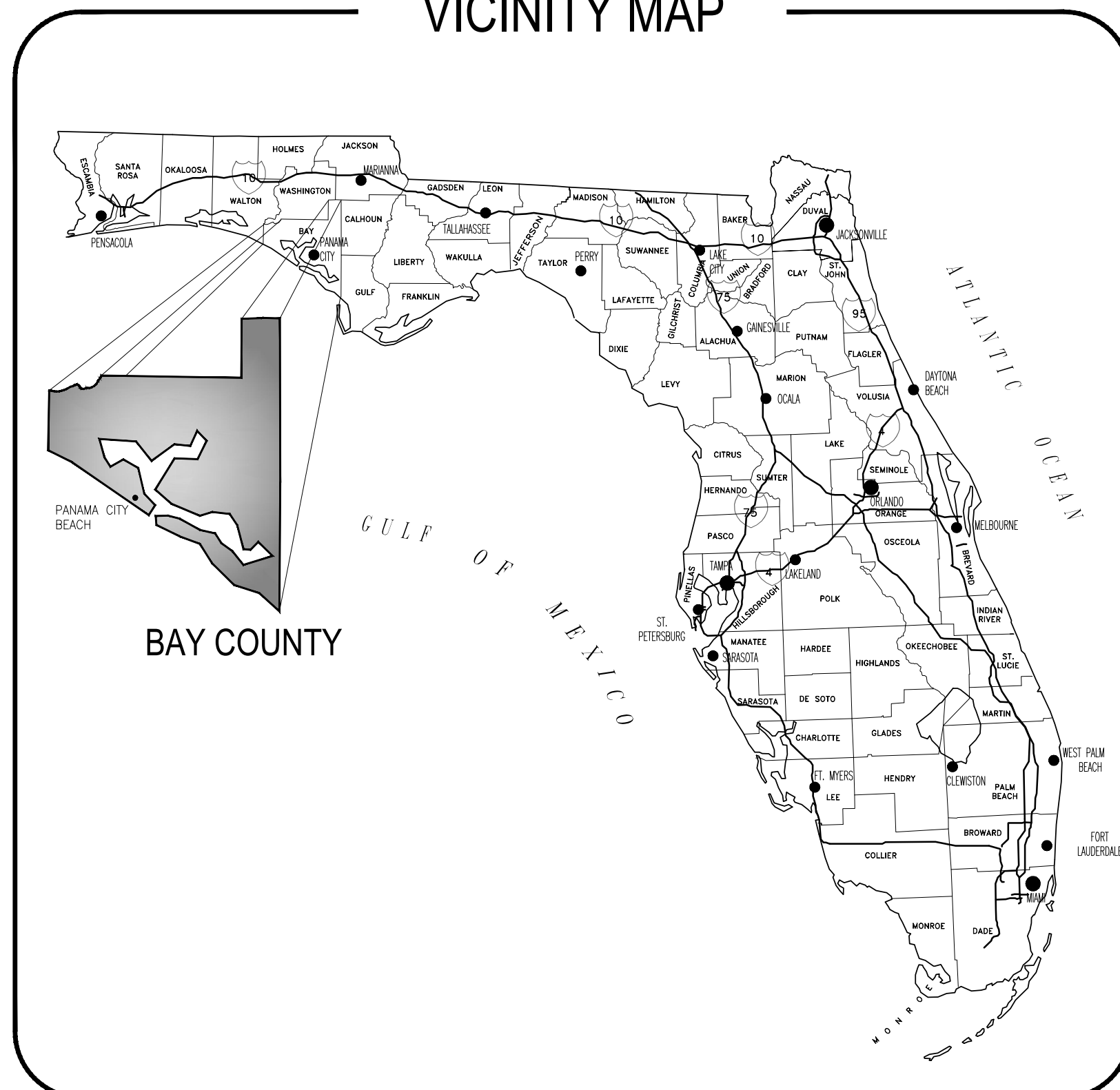
PROJECT NUMBER - 50089305

FEBRUARY, 2023

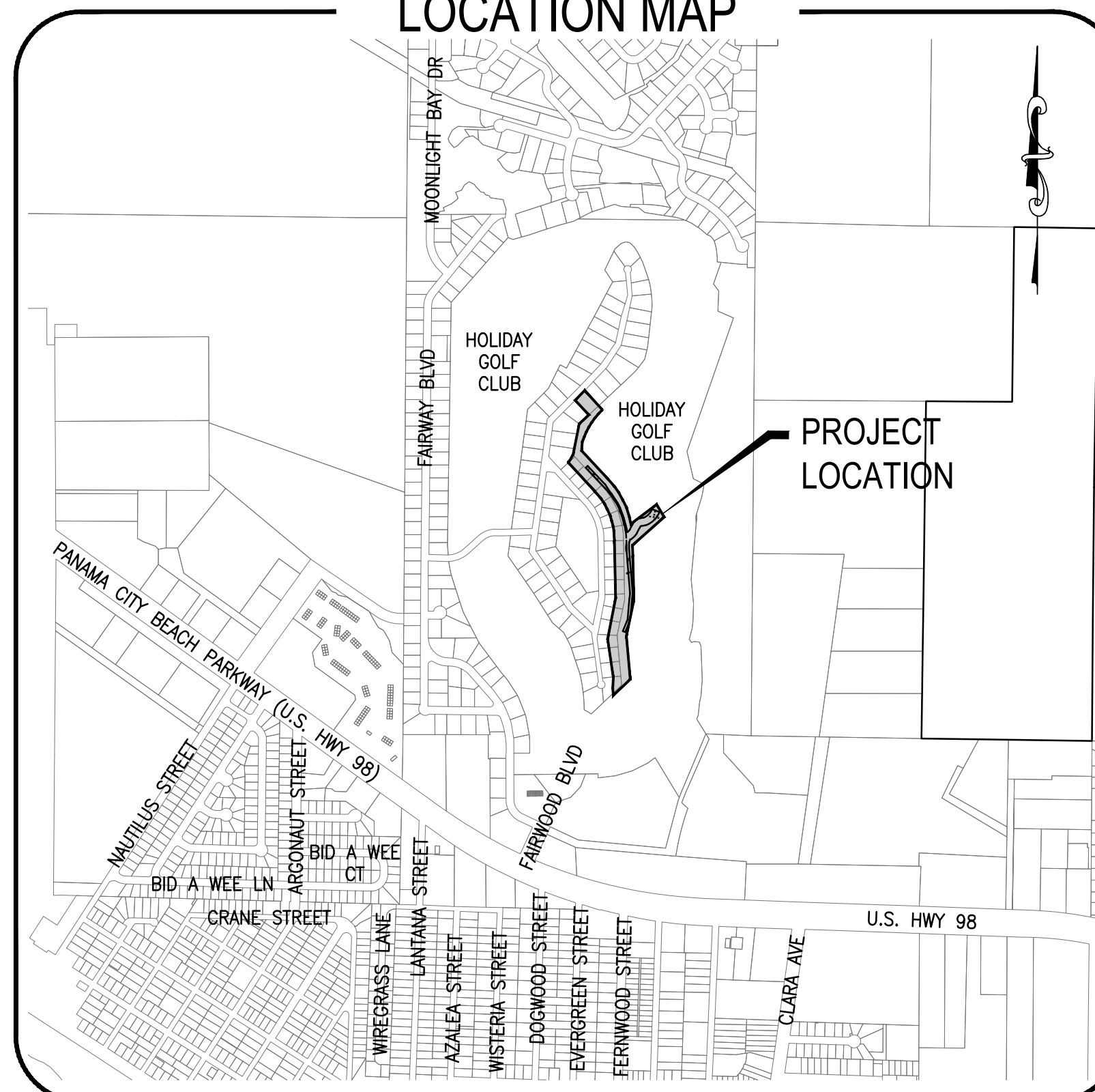
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REV. NO.	REV. DATE	REVISION DESCRIPTION	RELEASED TO	RELEASE DATE

VICINITY MAP



LOCATION MAP



DRAWING INDEX

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GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH BAY COUNTY AND THE CITY OF PANAMA CITY BEACH UTILITY STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE APPROVED.
2. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
3. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
5. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (800-432-4770) AND UTILITY OWNERS LISTED BELOW AT LEAST TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. THE CONTRACTOR SHALL WAIT THE REQUIRED TIME FOR BURIED UTILITIES TO BE LOCATED AND MARKED. THE CONTRACTOR SHALL PROTECT THE MARKS DURING CONSTRUCTION. IF THE MARKS ARE DESTROYED, THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL FLORIDA AGAIN. THE CONTRACTOR SHALL DIG SAFELY, USING EXTREME CAUTION, WHEN DIGGING WITHIN 36 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.
6. PROPOSED CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE. SIDEWALK CONSTRUCTION AND EXPANSION JOINT SPACING SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 310.
7. ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP/FDOT EROSION AND SEDIMENT CONTROL HANDBOOK.
8. THE CONTRACTOR SHALL PROTECT ALL GRASSED AREAS FROM DISCARDED CONCRETE AND EXCESS MATERIALS. ALL DISCARDED CONCRETE AND EXCESS MATERIALS SHALL BE REMOVED FROM THE RIGHT-OF-WAY (OR JOB SITE) ON A DAILY BASIS.
9. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION (STREET SIGNS) VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
10. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY TO THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE ENGINEER SHALL COORDINATE WITH THE PROJECT ADMINISTRATOR PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.
11. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER IS TO NOTIFY THE PROJECT ADMINISTRATOR OF DISCOVERY. THE PROJECT ADMINISTRATOR WILL ARRANGE AN INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE ENGINEER. THE PROJECT ADMINISTRATOR WILL ADVISE THE ENGINEER.
12. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.
13. THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.
14. ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX 505.
15. CONTRACTOR SHALL NOTIFY ALL ADJACENT PROPERTY OWNERS, IF THEIR LANDSCAPING IS TO BE REMOVED, TO COORDINATE THE REMOVAL AND POSSIBLE RELOCATION.
16. DEWATERING/ SHOULD LOWERING OF GROUND/WATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, OR TO PREVENT LATERAL MOVEMENT OF CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING ASSOCIATED WITH DEWATERING.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING NPDES PERMIT, IF NECESSARY.
18. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
19. SWEEPING SHALL OCCUR DAILY OR IMMEDIATELY AFTER SUCH EVENTS THAT CAUSE TRACKING ONTO STREET.
20. ALL SIGNAGE IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RELOCATED BY CONTRACTOR AT NO ADDITIONAL COST.
21. ANY SIGNS DAMAGED BY THE CONTRACTOR OR STOCKPILED BY THE CONTRACTOR THAT BECOME DAMAGED SHALL BE REPLACED.
22. ALL MAILBOXES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
23. CONTRACTOR SHALL PROVIDE SIX (6) SETS OF AS-BUILT DRAWINGS AND ONE (1) DIGITAL COPY IN AUTOCAD FORMAT OF THE COMPLETED PROJECT. THE AS BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR.
24. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
25. CONTRACTOR TO PROTECT PROPERTY CORNER MONUMENTATION WITHIN LIMITS OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY MONUMENTATION DAMAGED OR REMOVED AS PART OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING DAMAGED OR REMOVED PROPERTY MONUMENTATION TO BE DONE BY SURVEYOR.

LANDSCAPE NOTES

1. THE WORK SHALL BE COORDINATED WITH GOLF COURSE MAINTENANCE STAFF FOR PLANTING LOCATIONS. THE WORK SHALL ALSO BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS.
2. COORDINATE THE PLANTING WITH THE EXISTING IRRIGATION TO ASSURE AVAILABILITY AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.
3. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.
4. ALL PLANT MATERIAL SHALL BE GRADED FLORIDA NO. 1 OR BETTER AS OUTLINED UNDER GRADES AND STANDARDS FOR NURSERY PLANTS, PART I AND II, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
5. EXCEPT AS OTHERWISE SPECIFIED, THE LANDSCAPE CONTRACTOR'S WORK SHALL CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE.
6. THE MINIMUM ACCEPTABLE SIZE OF ALL PLANTS, MEASURED AFTER PRUNING, WITH BRANCHES IN NORMAL POSITIONS, SHALL CONFORM TO THE MEASUREMENTS SPECIFIED ON THE PLANT LIST.
7. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE, BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED.
8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WATERING OF ALL PLANTS. ALL PLANTS SHALL BE THOROUGHLY WATERED AT TIME OF PLANTING AND KEPT ADEQUATELY WATERED UNTIL TIME OF ACCEPTANCE. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT PLANTS ARE NOT OVER WATERED.
9. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS FROM FALLING OR BEING BLOWN OVER, TO RE-STRAIGHTEN AND REPLANT ALL PLANTS WHICH LEAN OR FALL AND TO REPLACE ALL PLANTS WHICH ARE DAMAGED DUE TO LACK OF PROPER GUYNING OR STAKING. THE LANDSCAPE CONTRACTOR SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIAL.
10. PLANTS BLOWN OVER BY HIGH WINDS, WITHIN THE GUARANTEED PERIOD, SHALL NOT BE CAUSE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. DAMAGED PLANTS SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. SOD SHALL BE CERTIFIED TO BE FREE OF THE IMPORTED FIRE ANT. SOD SHALL HAVE A CLEAN GROWTH OF ACCEPTABLE GRASS, REASONABLY FREE OF WEEDS WITH NOT LESS THAN 1 1/2" OF SOIL FIRMLY ADHERING TO ROOTS. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO MEASURE AND DETERMINE THE EXACT AMOUNT REQUIRED. THIS AMOUNT SHALL BE VERIFIED WITH THE OWNER OR ENGINEER BEFORE INSTALLATION.
12. THE LANDSCAPE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS, PLANTERS, AND SOD AREAS. VERTICAL DRILLING THROUGH ANY COMPACTED FILL TO NATIVE SOIL SHALL BE ACCOMPLISHED TO INSURE DRAINAGE. IF WELL DRAINED FILL IS NECESSARY TO ASSURE POSITIVE DRAINAGE, THIS ISSUE SHALL BE BROUGHT UP BY THE LANDSCAPE CONTRACTOR AT TIME OF BIDDING.
13. THE CONTRACTOR SHALL INSURE THAT HIS WORK DOES NOT INTERRUPT ESTABLISHED OR PROJECTED DRAINAGE PATTERNS.
14. THE LANDSCAPE CONTRACTOR SHALL PRUNE, SHAPE AND REMOVE DEAD FOLIAGE/LIMBS FROM EXISTING PLANT MATERIAL TO REMAIN. CONFIRM WITH THE LANDSCAPE ARCHITECT OR OWNER THE EXTENT OF WORK REQUIRED AT TIME OF BIDDING.
15. MAINTENANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE:
 - MAINTENANCE SHALL COMMENCE AFTER EACH PLANT IS PLANTED AND THE MAINTENANCE PERIOD SHALL CONTINUE UNTIL THE JOB OR SPECIFIC PHASE OF THE JOB IS ACCEPTED BY THE OWNER. EXTREME CARE SHALL BE TAKEN TO INSTRUCT THE OWNER OR HIS REPRESENTATIVES IN GENERAL MAINTENANCE PROCEDURES.
 - PLANT MAINTENANCE SHALL INCLUDE WATERING, PRUNING, WEEDING, CULTIVATING, MULCHING, TIGHTENING, AND REPAIRING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADES OR UPRIGHT POSITIONS AND RESTORATION OF THE PLANTING SAUCER AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
 - DURING THE MAINTENANCE PERIOD AND UP TO THE DATE OF FINAL ACCEPTANCE, THE LANDSCAPE CONTRACTOR SHALL DO ALL SEASONAL SPRAYING AND/OR DUSTING OF TREES AND SHRUBS. UPON COMPLETION OF ALL PLANTING, AN INSPECTION FOR ACCEPTANCE OF WORK WILL BE HELD. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR OWNER FOR SCHEDULING OF THE INSPECTION 10 DAYS PRIOR TO THE ANTICIPATED DATE.
 - AT THE TIME OF THE INSPECTION, IF ALL OF THE MATERIALS ARE ACCEPTABLE, A WRITTEN NOTICE WILL BE GIVEN BY THE LANDSCAPE ARCHITECT OR OWNER TO THE LANDSCAPE CONTRACTOR STATING THE DATE WHEN THE MAINTENANCE PERIOD ENDS.
 GUARANTEE AND REPLACEMENT
 E. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE (1) YEAR FROM THE TIME OF FINAL INSPECTION AND INTERIM ACCEPTANCE SHALL BE ALIVE AND IN SATISFACTORY GROWTH FOR EACH SPECIFIC KIND OF PLANT AT THE END OF THE GUARANTEE PERIOD.
 F. AT THE END OF THE GUARANTEE PERIOD, ANY PLANT REQUIRED UNDER THIS CONTRACT THAT IS DEAD OR NOT IN SATISFACTORY GROWTH AS DETERMINED BY THE OWNER OR THE LANDSCAPE ARCHITECT, SHALL BE REMOVED AND REPLACED. REPLACEMENT PLANTS SHALL HAVE AN EXTENDED GUARANTEE, AS NOTED ABOVE, FROM TIME OF REPLACEMENT.
 G. ALL REPLACEMENTS SHALL BE PLANTED OF THE SAME KIND AND SIZE AS SPECIFIED ON THE PLANT SCHEDULE. THEY SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

QUANTITY	BOTANICAL / COMMON NAME	CONTAINER	SIZE
10	Muhlenbergia capillaris / Muhly Grass	1 GAL	12" HEIGHT FULL
10	Tripsacum dactyloides / Fakahatchee grass	3 GAL	12" HEIGHT FULL
10	Spartina bakeri / Cord Grass	3 GAL	12" HEIGHT FULL

UTILITY GENERAL NOTES:

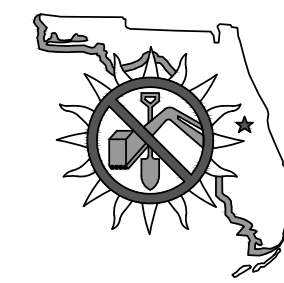
1. ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PANAMA CITY BEACH STANDARDS AND SPECIFICATIONS UNLESS APPROVED BY THE CITY OF PANAMA CITY BEACH.
2. THE CONTRACTOR WILL BE REQUIRED TO REMOVE & REPLACE ITEMS ENCOUNTERED IN THE FIELD, ie SIGNS, FENCING, POST, etc.
3. MAINS SHALL HAVE A MINIMUM OF 36" COVER UNLESS APPROVED BY ENGINEER.
4. CONTRACTOR IS TO FURNISH "AS BUILT PLANS" INDICATING LOCATIONS OF ALL FITTINGS, VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
5. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES, AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK, AND TAKE WHATEVER STEP NECESSARY TO PROVIDE FOR THEIR PROTECTION.
7. UTILITIES SHOWN ON THE PLANS MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
8. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
9. ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS.
10. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE PATH OF THE NEW WORKS AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE PATH OF THE NEW WORKS.
11. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF THE NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 7 DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL OBJECTS NOT SHOWN ON THE SURVEY.
12. ALL CONSTRUCTION AREAS NEAR WETLANDS ARE TO BE MONITORED CLOSELY FOR EROSION. SILT FENCE AND HAY BALES SHALL BE USED IN THESE AREAS. CONTRACTOR SHALL FOLLOW ALL THE FDEP/COE DREDGE AND FILL PERMIT REQUIREMENTS IF APPLICABLE. SEE SPECIFICATIONS.
13. ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
14. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY WETLANDS.
15. ALL PIPE SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER. WELL POINTS OR SOCK PIPE MAY BE USED.
16. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
17. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS.
18. ALL DISTURBED AREAS SHALL BE STABILIZED WITH HYDROSEED OR SOD.
19. CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS PROJECT.

CONSTRUCTION SEQUENCE AND BMP'S

1. THE INITIAL PART OF THE CONSTRUCTION PROCESS SHALL BE THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE AREA THAT IS TO BE DISTURBED TO ENSURE NO TURBID RUNOFF LEAVES THE CONSTRUCTION SITE. THE SILT FENCE SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. IF THERE IS A POSSIBILITY OF RUNOFF TO A WATER BODY, TURBIDITY CURTAIN SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. THE SECOND STEP SHALL BE THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND DEMOLITION OF ANY EXISTING IMPROVEMENTS AS NEEDED (SEE DEMOLITION PLAN). THE THIRD STEP SHALL BE TO CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE TO BE INSTALLED. AS FILL IS BROUGHT INTO THE SITE, THE STORM WATER BASIN SHOULD BE CREATED TO CAPTURE ANY OVERLAND FLOW AND ACT AS A SEDIMENT TRAP. IT IS RECOMMENDED THAT THE BASIN BE CONSTRUCTED APPROXIMATELY 1/2' HIGHER THAN DESIGN AT THIS POINT TO ENSURE ALL SILTS AND FINES ARE REMOVED AT THE TIME OF FINAL GRADING OF THE STORM WATER BASIN.
2. TYPICALLY, THE SANITARY SEWER, STORM SEWER, AND WATER MAINS ARE INSTALLED RESPECTIVELY. UPON INSTALLATION OF THE STORM SEWER, HAY BALES AND FILTER FABRICS SHALL BE USED AT ALL INLET OPENINGS PER THE CONSTRUCTION DETAILS TO KEEP THE SYSTEM FREE OF SEDIMENTS DURING THE CONSTRUCTION PHASE. DEPENDING ON SITE CONDITIONS AND SIZE, SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT TURBID RUNOFF FROM LEAVING THE SITE (SEE EROSION CONTROL PLAN).
3. SITE STABILIZATION SHALL BE PROVIDED AS SOON AS THE GRADING WILL ALLOW IN ORDER TO STOP EROSION AND REDUCE TURBID RUNOFF. SEEDING SODDING, OR HYDROSEEDING SHALL BE USED WHEN FINAL GRADES ARE ESTABLISHED.
4. EROSION CONTROL MEASURES SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND BE MANAGED IN ACCORDANCE WITH THE STATE NPDES PROGRAM.
5. THE DESIGN OF THE STORM WATER MANAGEMENT SYSTEM FOR THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.

UTILITY CONTACTS:

OWNER	CONTACT	PHONE
BAY COUNTY TRAFFIC	BOB EDMUNDS	850-248-8760
CITY OF PANAMA CITY BEACH	KELLY JENKINS	850-233-5100
KNOLGY HOLDINGS	STEVE THOMAS	850-215-2138
COMCAST CABLE	JEFFERY SMITH	850-770-8056
SOUTHERN LIGHT	ANDRO BRAMBLETT	251-662-1170
FLORIDA POWER & LIGHT	KENNY DOUGLAS	850-505-5567
AT&T	NANCY SPENCE	770-918-5424
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COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

RELEASED FOR BID
NOT FOR CONSTRUCTION

SCALE

NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ M.MORE
APPROVED BY _____ M.HURST
CHECKED BY _____ J.SKLARSKI
DATE _____ FEBRUARY, 2023

GENERAL NOTES

PROJECT NO. 50089305

C1

SHEET NO.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

- 1. SITE DESCRIPTION:
 - A. CONSTRUCTION ACTIVITY: CONSTRUCT APPROXIMATELY 1,820 L.F. "VEE" DITCH AND FLAT BOTTOM DITCH AND ALL ASSOCIATED SITEWORK. PROJECT LIMITS: SEE SHEET C3.
 - MAJOR SOIL DISTURBING ACTIVITIES: CONSTRUCT APPROXIMATELY 1,820 L.F. "VEE" DITCH AND FLAT BOTTOM DITCH.
 - B. TOTAL PROJECT AREA: 34,141 SQ. FT. (0.78 AC.)
 - TOTAL SOIL AREA TO BE DISTURBED: 34,141 SQ. FT. (0.78 AC.)
 - C. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: BEFORE: 0.60, DURING: 0.60, AFTER: 0.60
 - (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A
 - (3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR OUTFALL: N/A
 - D. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS:
 - E. (1) NAME OF RECEIVING WATERS: WEST BAY
 - (2) WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPATED

2. CONTROLS:

NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS

THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. SILT FENCE AND TURBIDITY BARRIERS WILL BE USED LATERALLY AT SPECIFIED INTERVALS. SILT FENCE SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS. EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

- A. EROSION AND SEDIMENT CONTROLS:
 - (1) STABILIZATION PRACTICES:
 - TEMPORARY SODDING
 - TEMPORARY GRASSING
 - X PERMANENT PLANTING, SODDING, OR SEEDING
 - TEMPORARY MULCHING
 - ARTIFICIAL COVERING
 - BUFFER ZONES
 - X PRESERVATION OF NATURAL RESOURCES
 - (2) STRUCTURAL PRACTICES:
 - SAND BAGGING
 - X SILT FENCES
 - X HAY BALES
 - BERMS
 - DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
 - PIPE SLOPE DRAINS
 - FLUMES
 - X ROCK BEDDING AT CONSTRUCTION EXIT
 - TIMBER BEDDING AT CONSTRUCTION EXIT
 - DITCH LINER

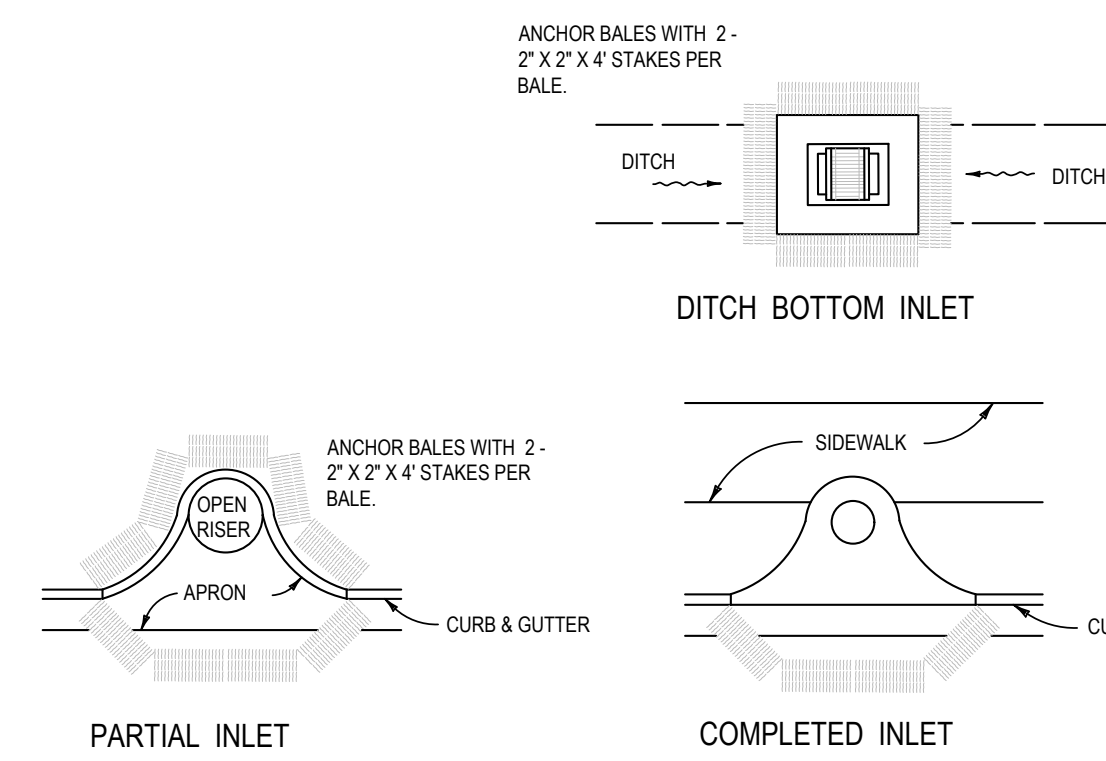
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP (ROCK BAGS)
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES
- TURBIDITY BARRIER
- X RIP RAP

- B. DESCRIPTION OF STORMWATER MANAGEMENT: N/A (URBAN INFILL).
- C. OTHER CONTROLS:
 - (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
 - (2) OFFSITE VEHICLE TRACKING:
 - HAUL ROADS DAMPENED FOR DUST CONTROL
 - X LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
 - X EXCESS DIRT ON ROAD REMOVED DAILY
 - X STABILIZED CONSTRUCTION ENTRANCE
 - (3) SANITARY WASTE: N/A
 - (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
 - (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): TO BE USED DURING DEWATERING PROPER BMPs.
- D. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: NPDES (CONTRACTOR WILL BE RESPONSIBLE TO OBTAIN)

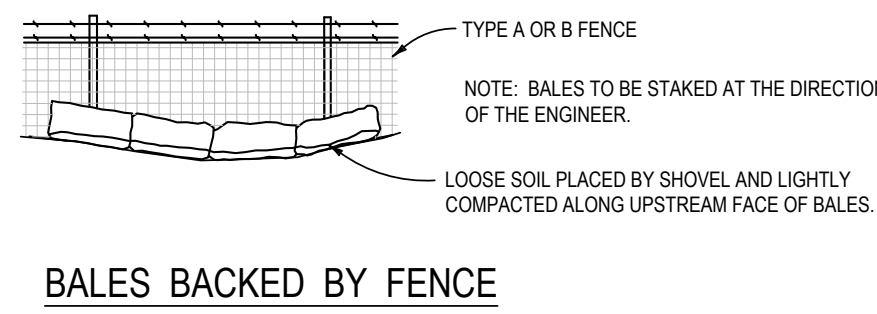
- 3. MAINTENANCE:
 - ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
- 4. INSPECTION:
 - ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER ONE HALF INCH (0.5") OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
 - A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORM WATER POLLUTION PREVENTION PLAN.
 - B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
 - C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
- 5. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.
- 6. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE. FAILURE TO DELIVER WASTE," WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.
- 7. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT AS REQUIRED.

EROSION CONTROL:

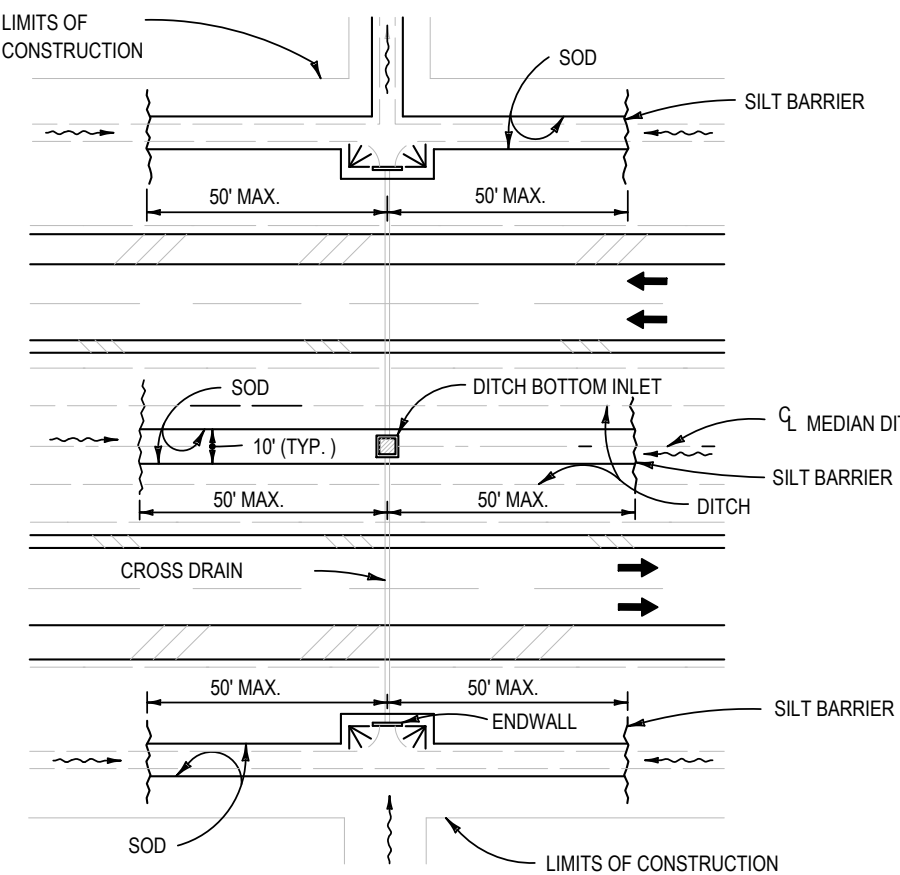
- 1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
- 3. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL / SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORM WATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL / SEDIMENTATION BARRIER.
- 4. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- 5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.



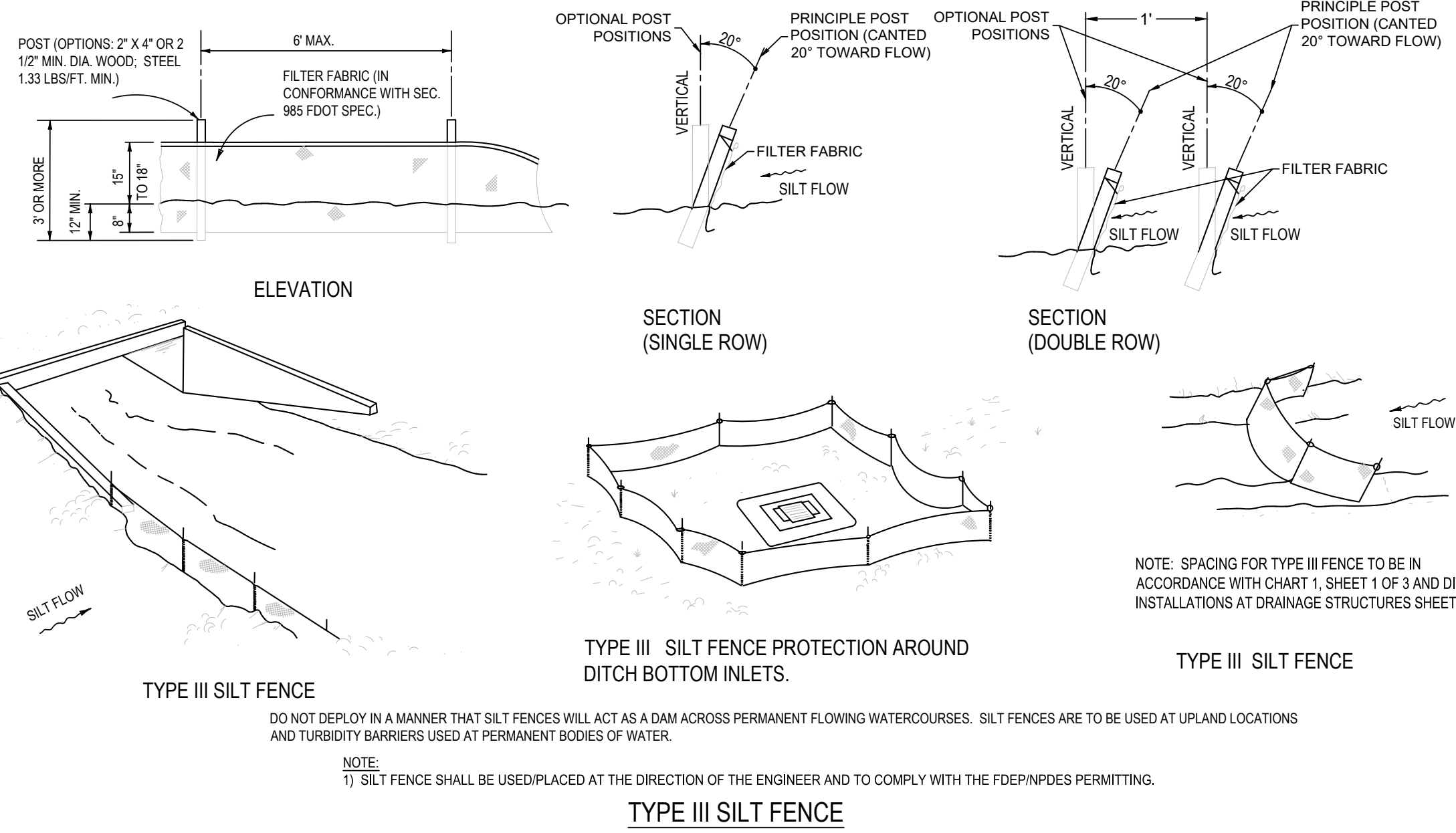
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



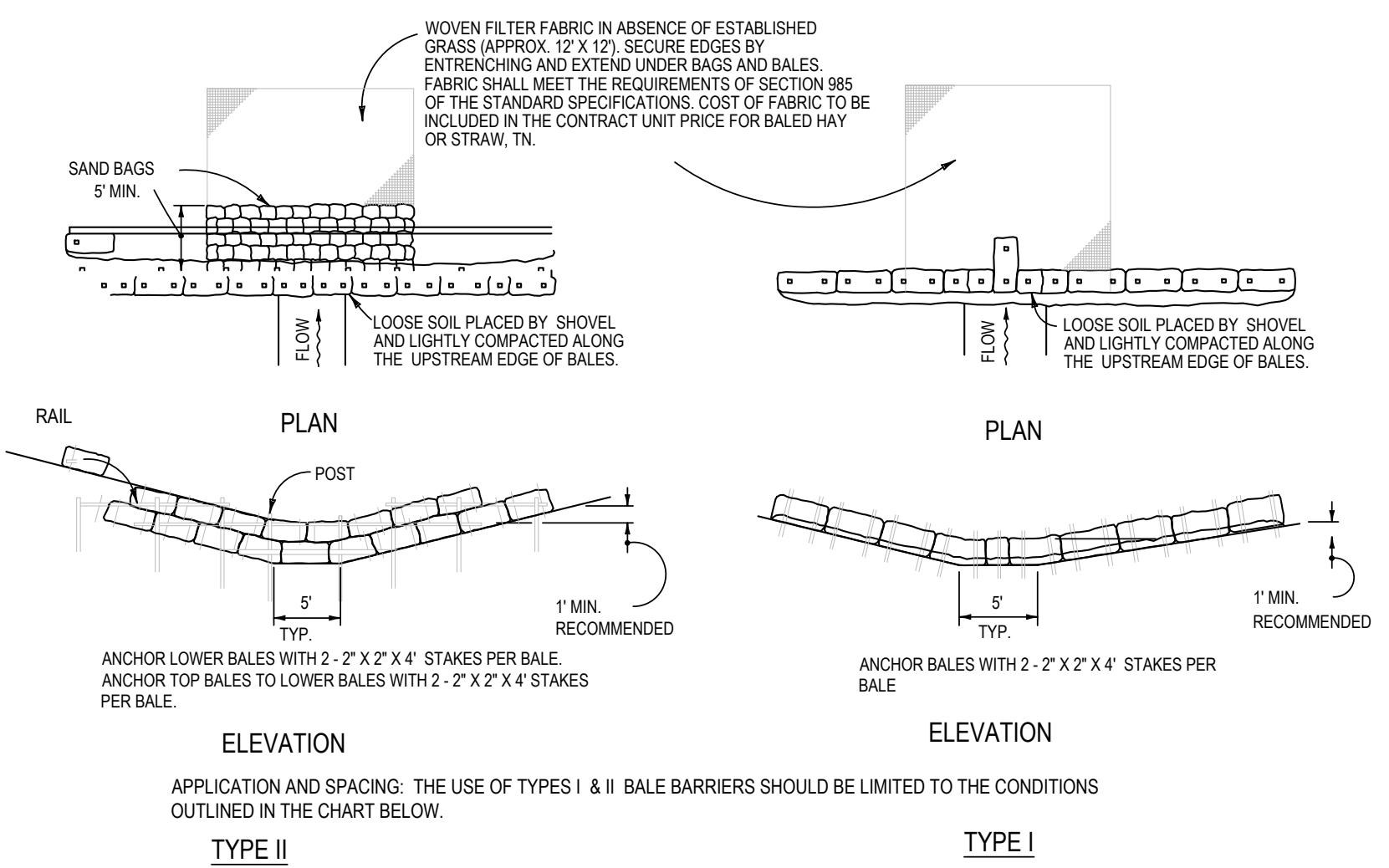
BALES BACKED BY FENCE



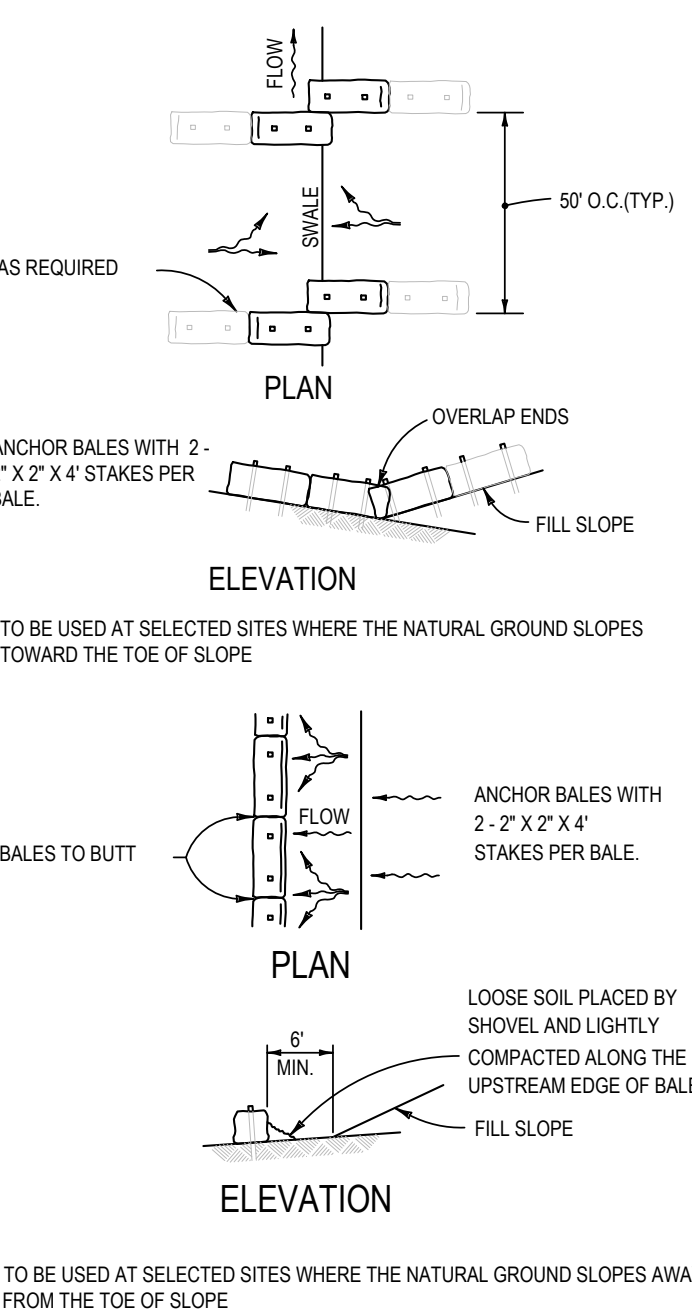
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



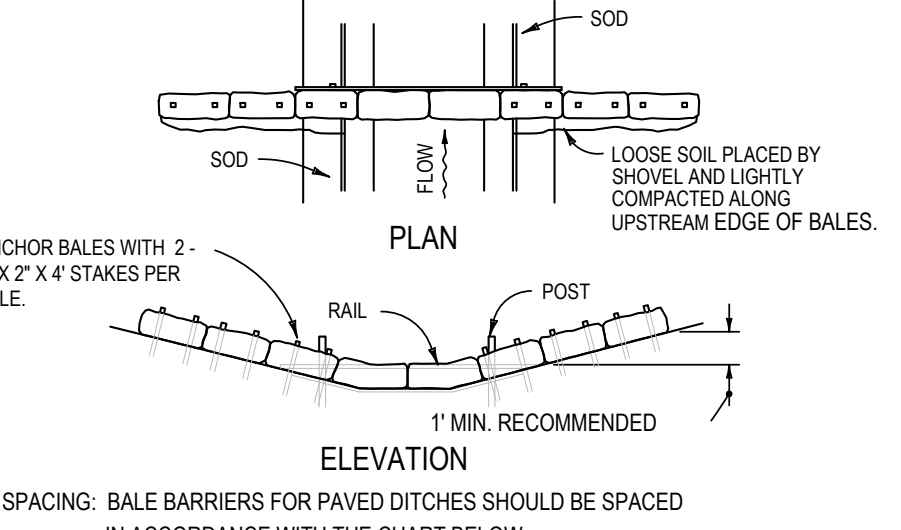
TYPE III SILT FENCE



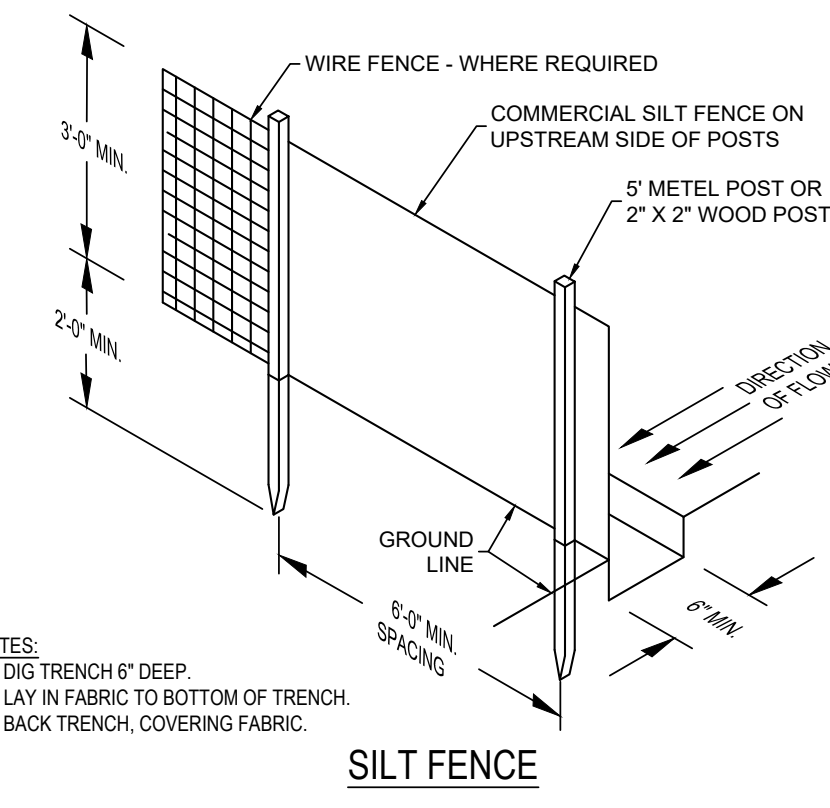
BARRIER FOR UNPAVED DITCHES



BARRIERS FOR FILL SLOPES



BARRIER FOR PAVED DITCH



SILT FENCE



Dewberry Engineers Inc.
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

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NOT FOR CONSTRUCTION

SCALE

NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ M. MORE
APPROVED BY _____ M. HURST
CHECKED BY _____ J. SKLARSKI
DATE _____ FEBRUARY, 2023

TITLE
STORM WATER POLLUTION PREVENTION PLAN

PROJECT NO. _____ 50089305

C2

SHEET NO.

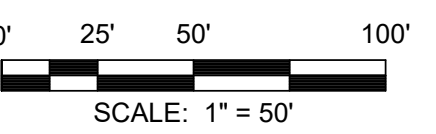
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SEAL

J. MORGAN HURST, P.E. 60813
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REVISIONS

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DRAWN BY _____ M. MORE
APPROVED BY _____ M. HURST
CHECKED BY _____ J. SKLARSKI
DATE _____ FEBRUARY, 2023

TITLE
**EXIST. CONDITIONS,
DEMOLITION AND
EROSION CONTROL**

PROJECT NO. _____ 50089305

C3

SHEET NO.

SURVEYOR'S NOTES:

- 1. BEARINGS SHOWN HEREON ARE REFERENCED TO FLORIDA STATE PLANE COORDINATES, NORTH ZONE, NAD 1983/2011, U.S. SURVEY FEET, ESTABLISHED WITH SPECTRA PRECISION EPOCH 80 GNSS RTK GPS SYSTEM, TOGETHER WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION PERMANENT REFERENCE NETWORK (FPRN).
- 2. VERTICAL DATUM SHOWN HEREON IS REFERENCED TO NAVD 1988.
- 3. THIS SURVEY, MAP, AND REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- 4. FLOOD NOTE: BY GRAPHIC PLOTTING ONLY, THE PROPERTY SHOWN HEREON LIES IN ZONE A AS PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE FOR THE CITY OF PANAMA CITY BEACH, BAY COUNTY, FLORIDA; SEE COMMUNITY PANEL NO. 120013 0304 H; WHICH BEARS A REVISED DATE OF JUNE 02, 2009.
- 5. SOURCE OF INFORMATION: PLAT OF COLONY CLUB, PLAT BOOK 13, PAGES 19-20.
- 6. NO TITLE SEARCH, TITLE OPINION OR ABSTRACT WAS PERFORMED BY, NOR PROVIDED TO DEWBERRY ENGINEERS INC. FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, ENCROACHMENTS, RIGHT-OF-WAYS, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.
- 7. NO UNDERGROUND UTILITIES, UTILITY LINES, FOUNDATIONS, OR OTHER UNDERGROUND STRUCTURES HAVE BEEN LOCATED BY DEWBERRY ENGINEERS INC., EXCEPT AS SHOWN.
- 8. NO ATTEMPT HAS BEEN MADE BY DEWBERRY TO LOCATE OR DETERMINE ENVIRONMENTAL WETLAND LINES, IF ANY EXIST.
- 9. THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF BAY COUNTY, FLORIDA.
- 10. THE SURVEY DEPICTED HEREON WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS DEFINED IN CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO SECTION 472.027 OF THE FLORIDA STATUTES.

SYMBOLS & ABBREVIATIONS:

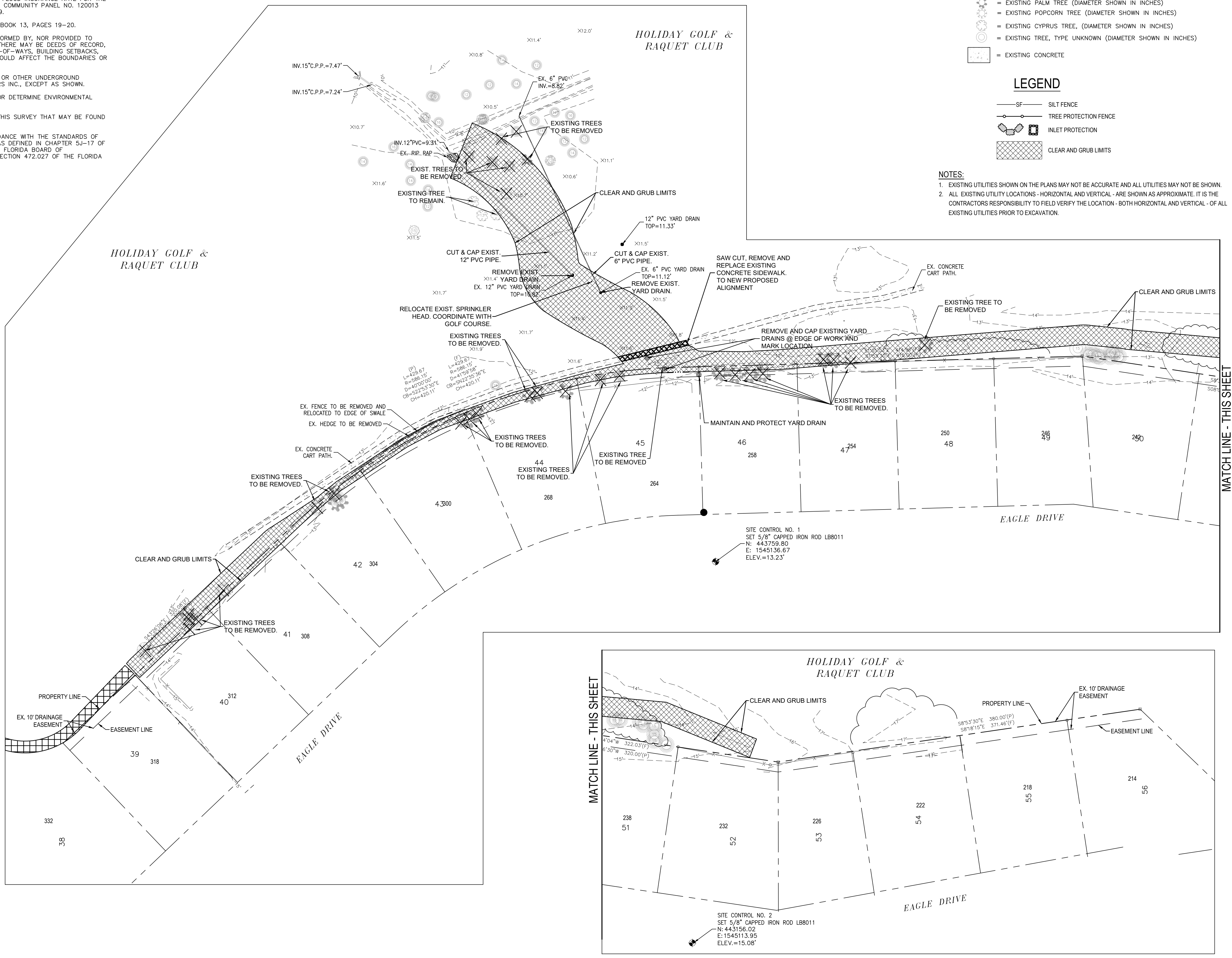
- TEMPORARY BENCHMARK
- SPOT ELEVATION AT "X"
- CONTOUR ELEVATION AT 1' INTERVALS
- EXISTING PINE TREE (DIAMETER SHOWN IN INCHES)
- EXISTING MAPLE TREE (DIAMETER SHOWN IN INCHES)
- EXISTING MAGNOLIA TREE (DIAMETER SHOWN IN INCHES)
- EXISTING PALM TREE (DIAMETER SHOWN IN INCHES)
- EXISTING POPCORN TREE (DIAMETER SHOWN IN INCHES)
- EXISTING CYPRUS TREE (DIAMETER SHOWN IN INCHES)
- EXISTING TREE, TYPE UNKNOWN (DIAMETER SHOWN IN INCHES)
- EXISTING CONCRETE

LEGEND

- SILT FENCE
- TREE PROTECTION FENCE
- INLET PROTECTION
- CLEAR AND GRUB LIMITS

NOTES:

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January 26, 2023 10:24:14 EST
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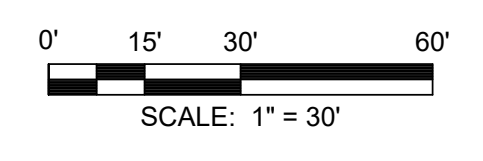
**COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA**

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

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SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ M.MORE
APPROVED BY _____ M.HURST
CHECKED BY _____ J.SKLARSKI
DATE _____ FEBRUARY, 2023

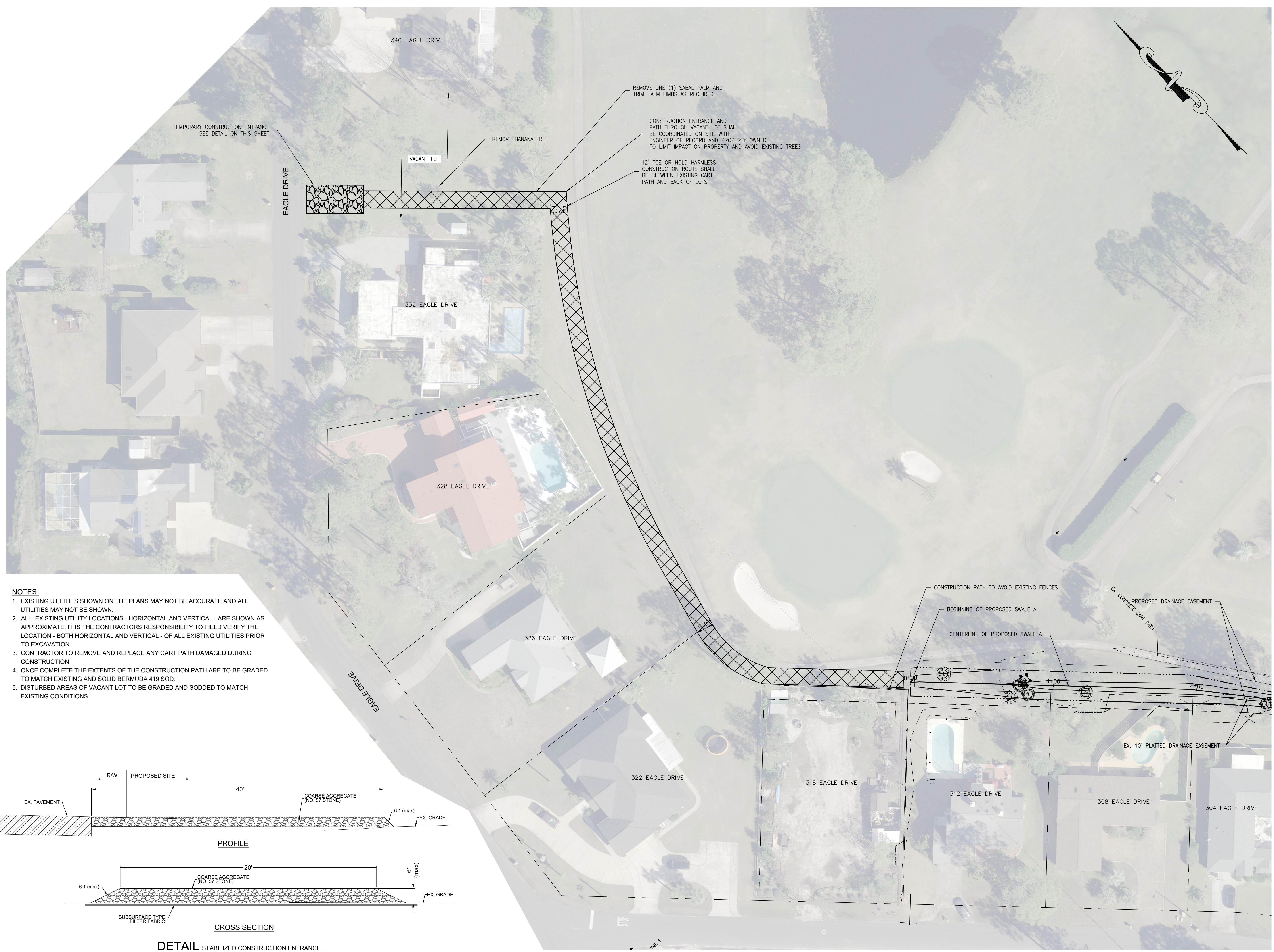
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PROJECT NO. 50089305

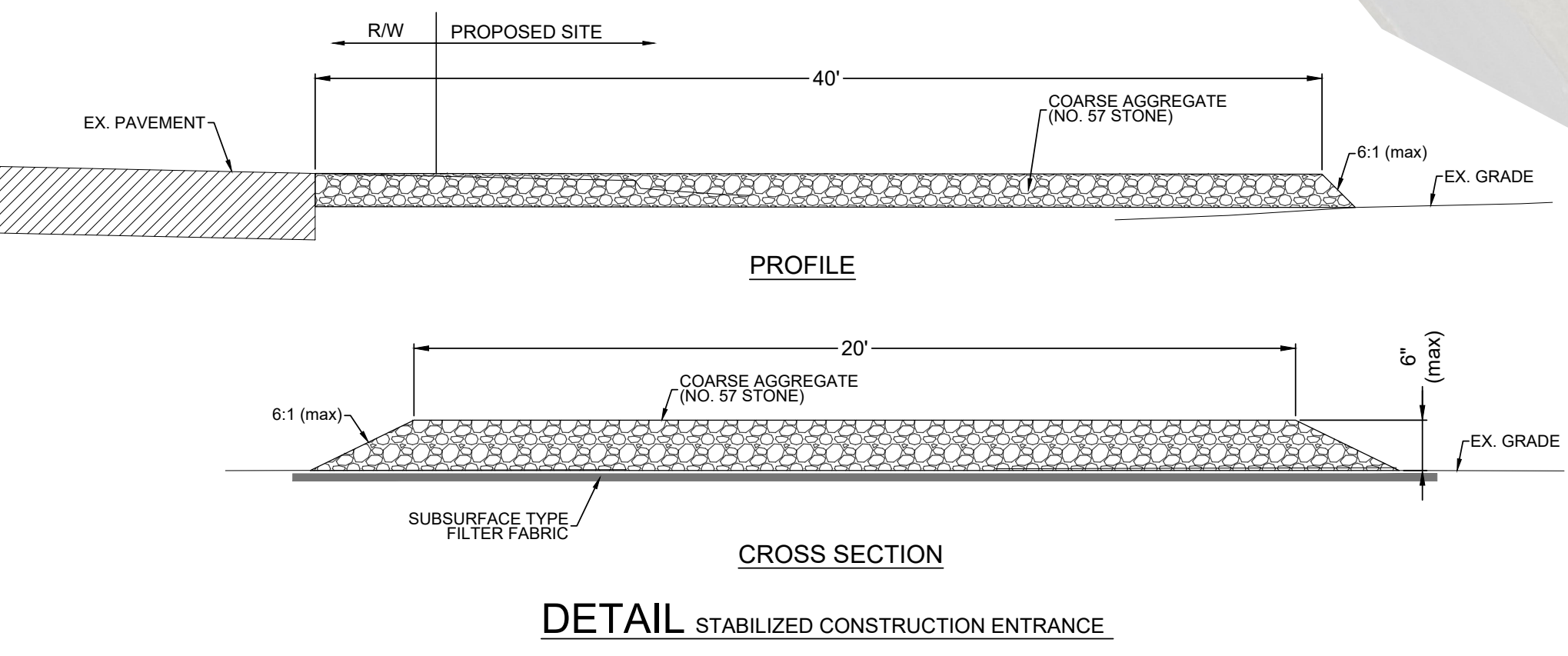
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SHEET NO.

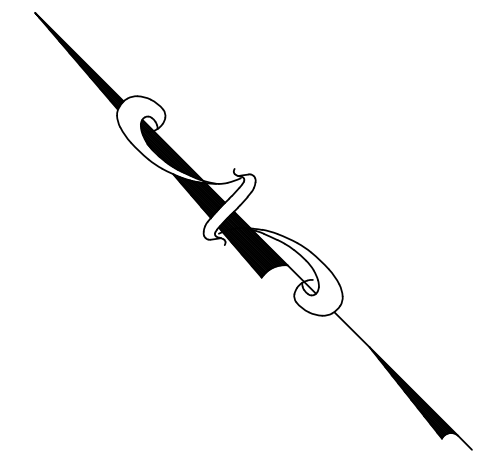
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 - CONTRACTOR TO REMOVE AND REPLACE ANY CART PATH DAMAGED DURING CONSTRUCTION
 - ONCE COMPLETE THE EXTENTS OF THE CONSTRUCTION PATH ARE TO BE GRADED TO MATCH EXISTING AND SOLID BERMUDA 419 SOD.
 - DISTURBED AREAS OF VACANT LOT TO BE GRADED AND SODDED TO MATCH EXISTING CONDITIONS.



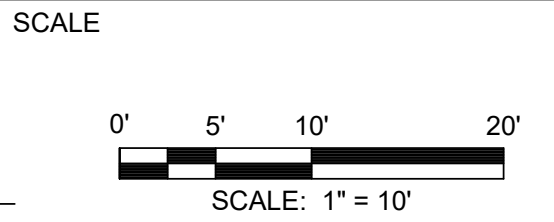
DETAIL STABILIZED CONSTRUCTION ENTRANCE



SEAL

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EB 0008794

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NO.	DESCRIPTION	DATE

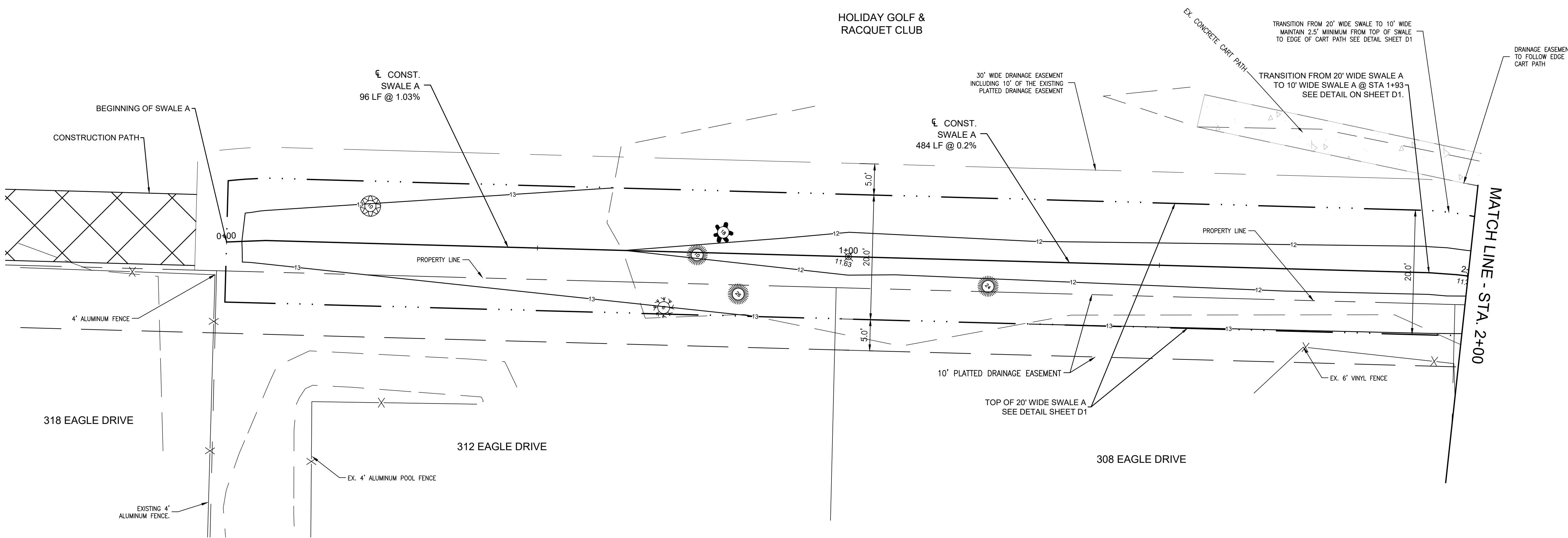
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 APPROVED BY _____ M.HURST
 CHECKED BY _____ J.SKLARSKI
 DATE _____ FEBRUARY, 2023

TITLE
**PLAN & PROFILE
 SWALE A**

PROJECT NO. _____ 50089305

C5

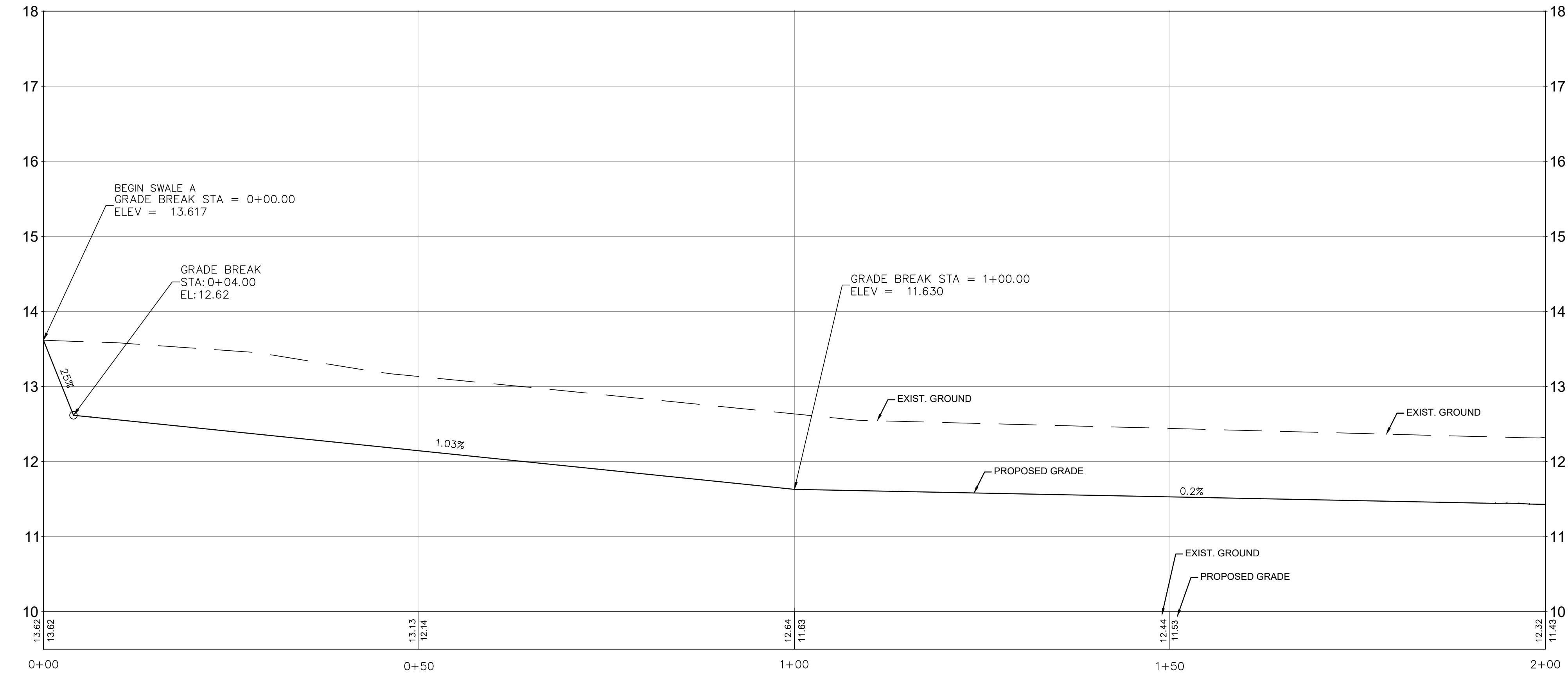
SHEET NO.



PLAN VIEW
 SCALE: 1" = 10'

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Swale A



PROFILE VIEW
 SCALE: 1" = 10' HORIZ.
 1" = 1' VERT

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COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

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REVISIONS

NO.	DESCRIPTION	DATE

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APPROVED BY _____ M.HURST
CHECKED BY _____ J.SKLARSKI
DATE _____ FEBRUARY, 2023

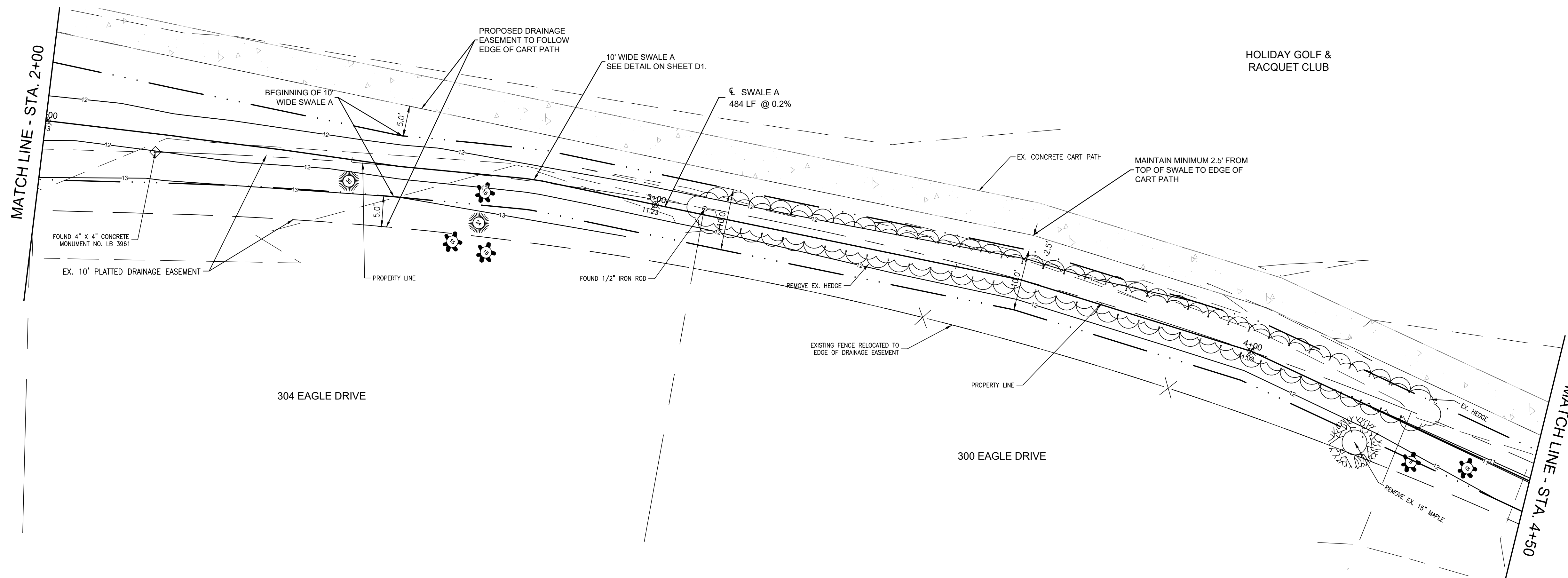
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PLAN & PROFILE
SWALE A

PROJECT NO. 50089305

C6

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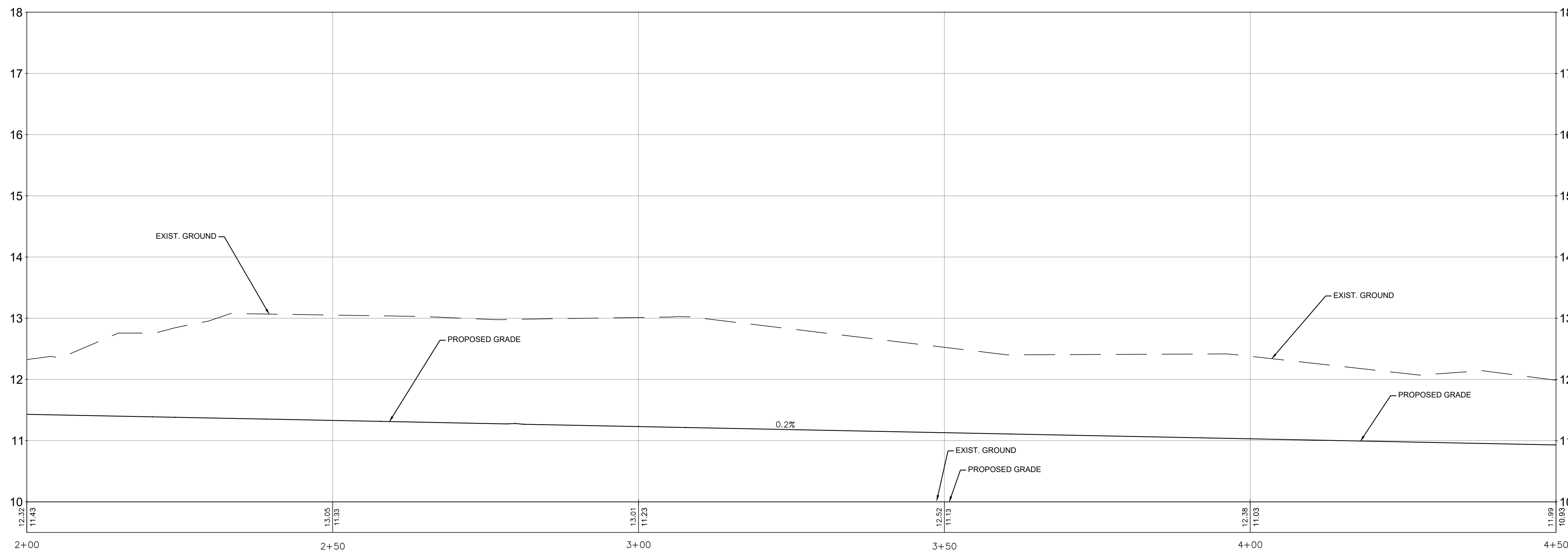


PLAN VIEW
SCALE: 1" = 10'

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Swale A



PROFILE VIEW
SCALE: 1" = 10' HORIZ.
1" = 1' VERT

COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

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REVISIONS

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DATE _____ FEBRUARY, 2023

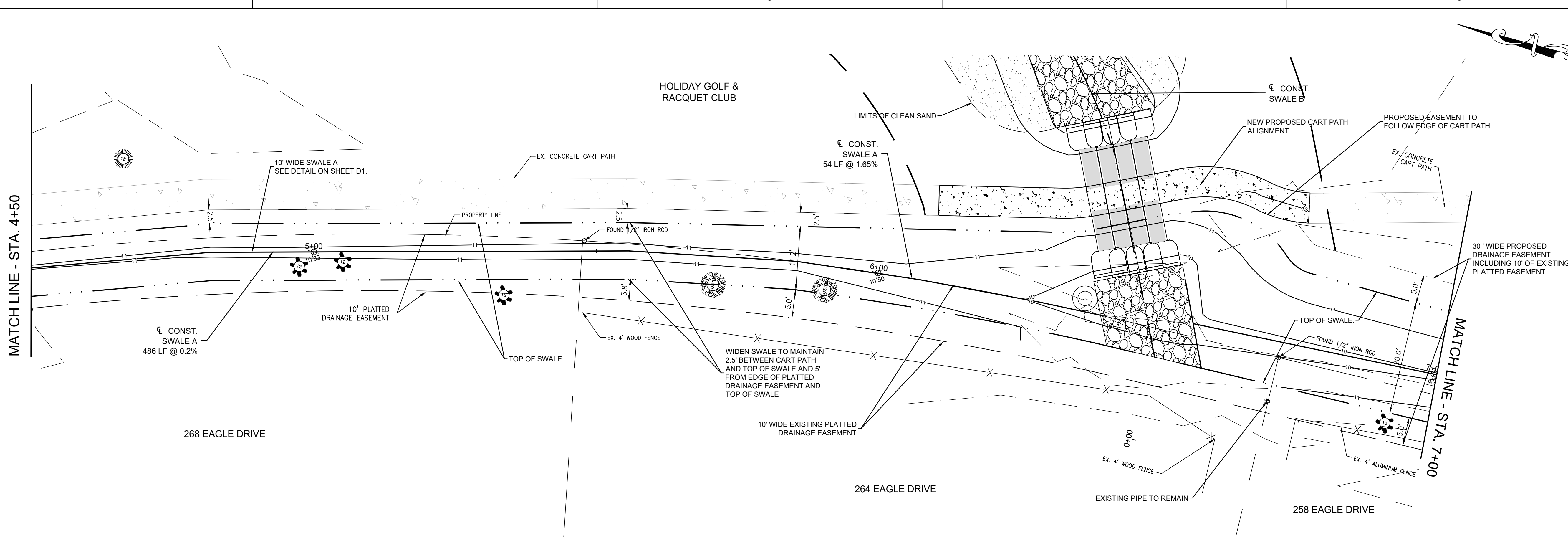
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PLAN & PROFILE
SWALE A

PROJECT NO. 50089305

C7

SHEET NO.

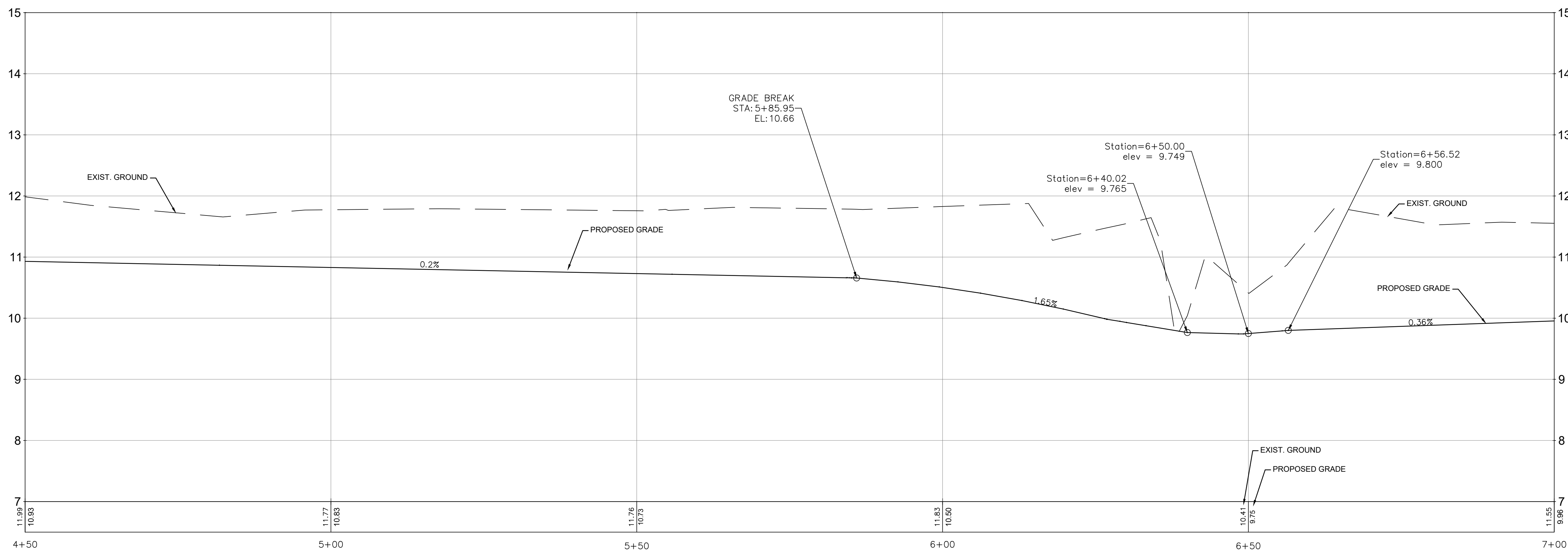


PLAN VIEW
SCALE: 1" = 10'

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Swale A



PROFILE VIEW
SCALE: 1" = 10' HORIZ.
1" = 1' VERT

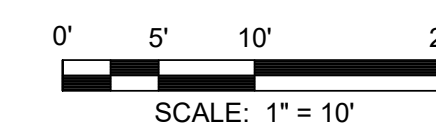
COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

SEAL

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EB 0008794

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REVISIONS

NO.	DESCRIPTION	DATE

NO. DESCRIPTION DATE

DRAWN BY _____ M.MORE

APPROVED BY _____ M.HURST

CHECKED BY _____ J.SKLARSKI

DATE _____ FEBRUARY, 2023

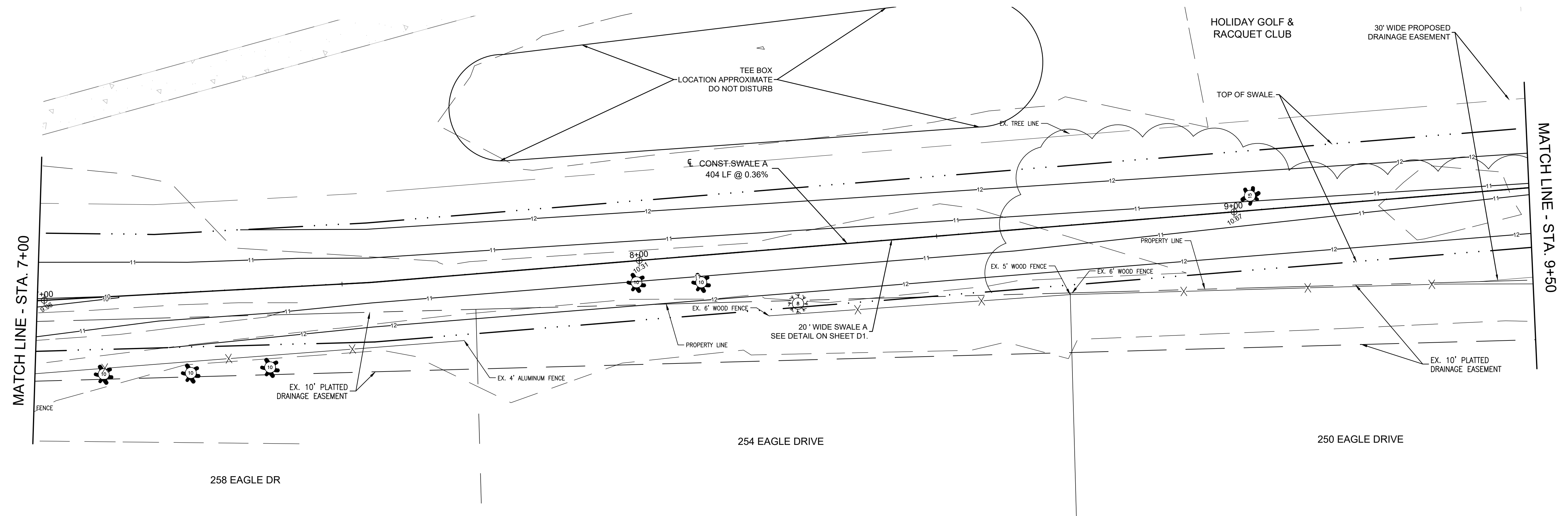
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**PLAN & PROFILE
SWALE A**

PROJECT NO. _____ 50089305

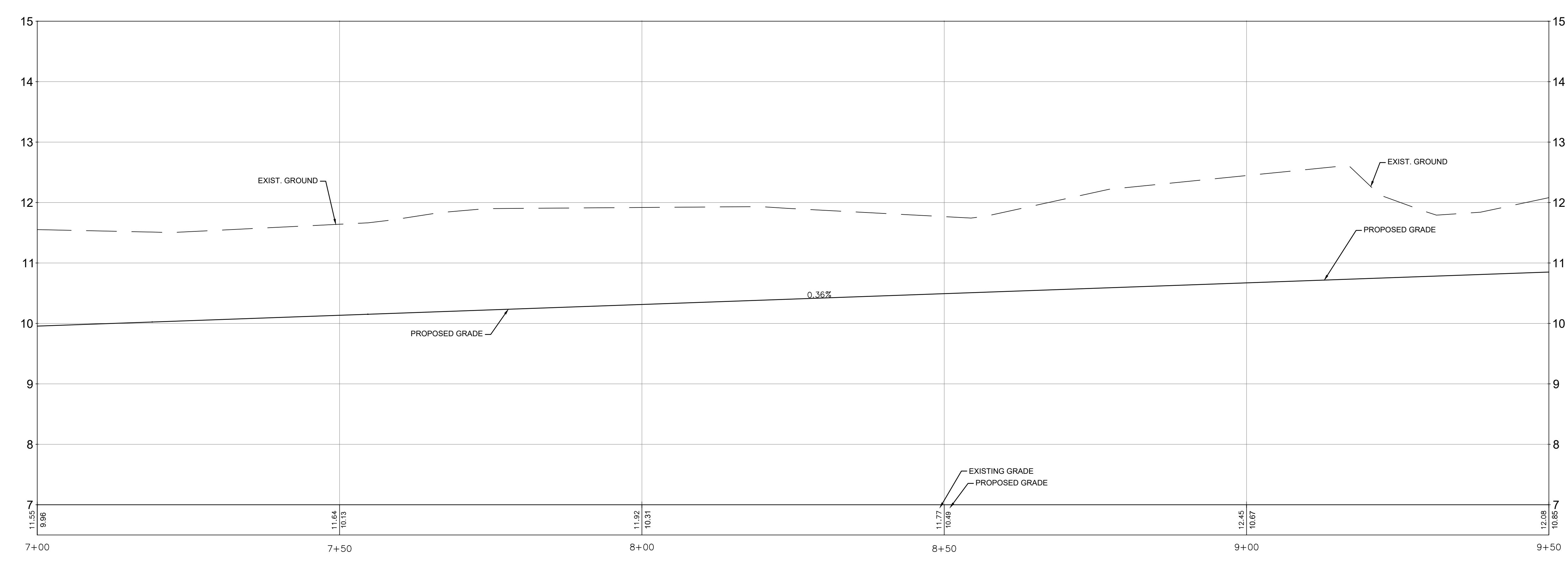
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SHEET NO.



PLAN VIEW
SCALE: 1" = 10'

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PROFILE VIEW
SCALE: 1" = 10' HORIZ
1" = 1' VERT

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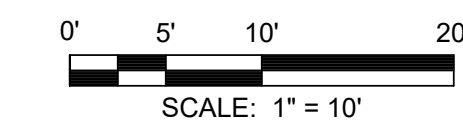
COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

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NO.	DESCRIPTION	DATE

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DATE _____ FEBRUARY, 2023

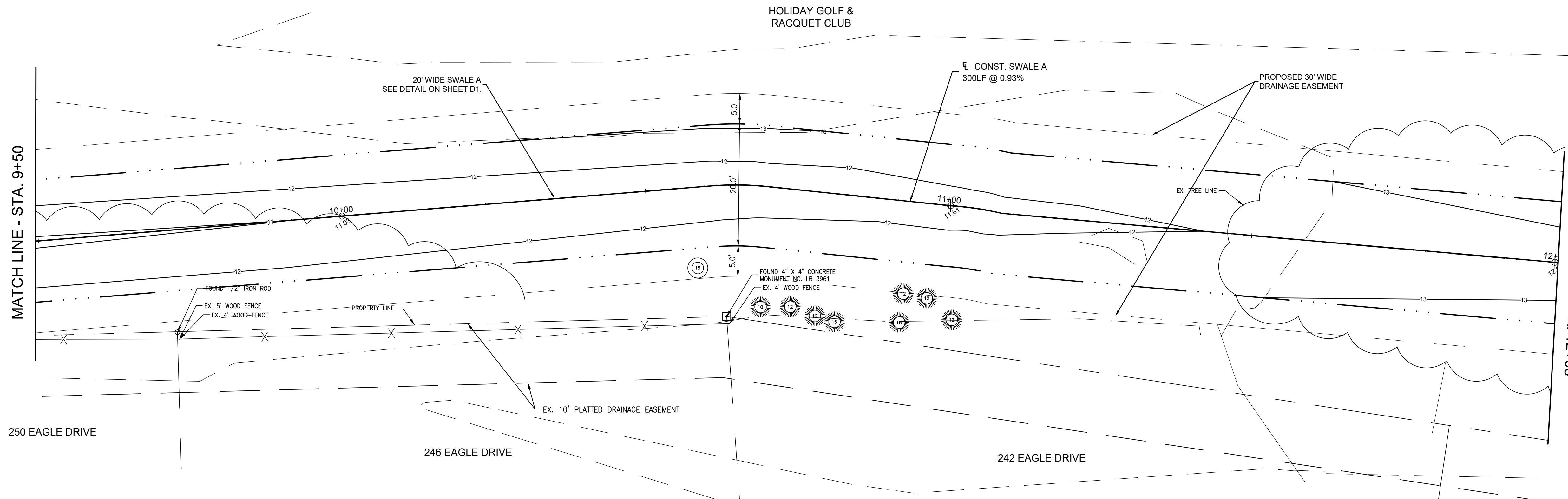
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PLAN & PROFILE
SWALE A

PROJECT NO. 50089305

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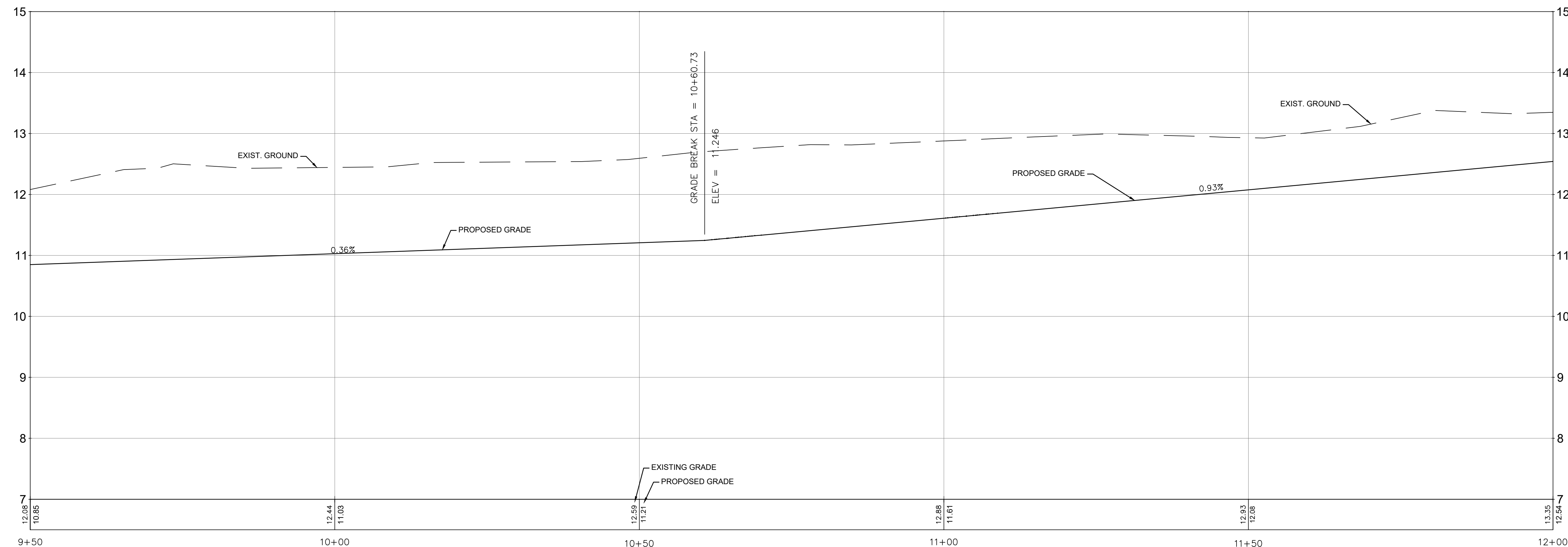
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PLAN VIEW
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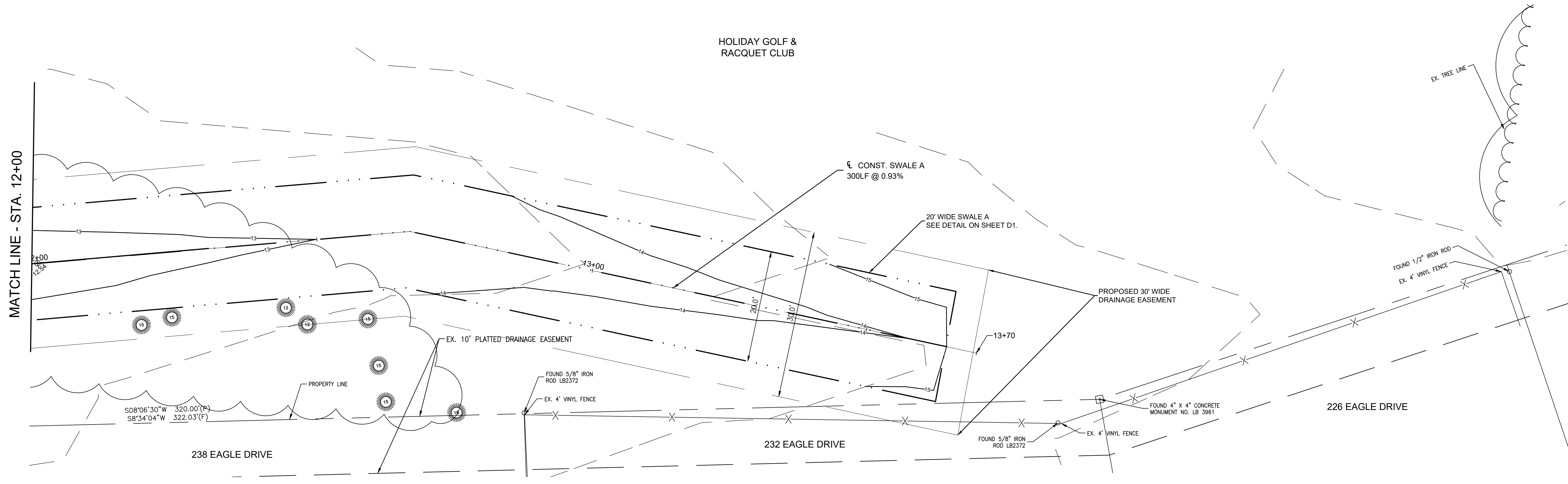


PROFILE VIEW
SCALE: 1" = 10' HORIZ.
1" = 1' VERT



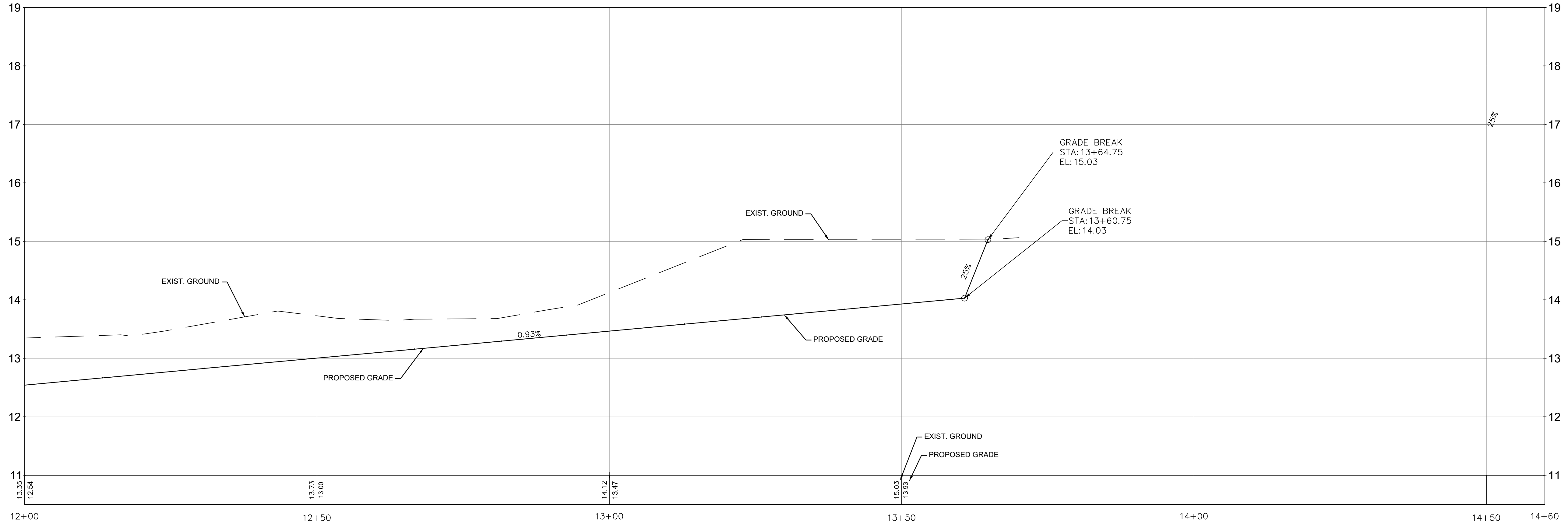
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA



PLAN VIEW
SCALE: 1" = 10'

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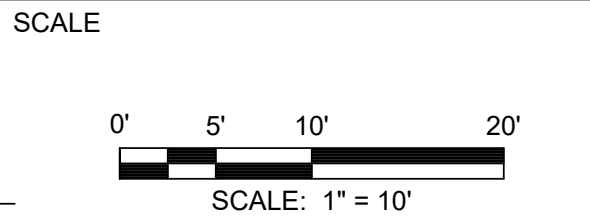


PROFILE VIEW
SCALE: 1" = 10' HORIZ.
1" = 1' VERT

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

RELEASED FOR BID
NOT FOR CONSTRUCTION



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ M.MORE
APPROVED BY _____ M.HURST
CHECKED BY _____ J.SKLARSKI
DATE _____ FEBRUARY, 2023

TITLE
**PLAN & PROFILE
SWALE A**

PROJECT NO. 50089305

C10

SHEET NO.

January 25, 2023 (12:47:05 EST)
 K:\50089305_P02_COLONY CLUB DRAINAGE SWALE_CIVIL\FOLDER_REFERENCE\50089305 DESIGN.DWG C10 PLAN_PROF (A-B) (BY: EIHAKSI)

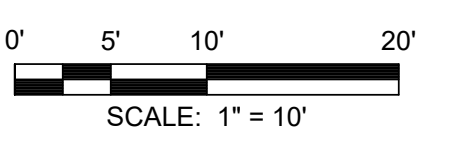
COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

RELEASED FOR BID
NOT FOR CONSTRUCTION

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

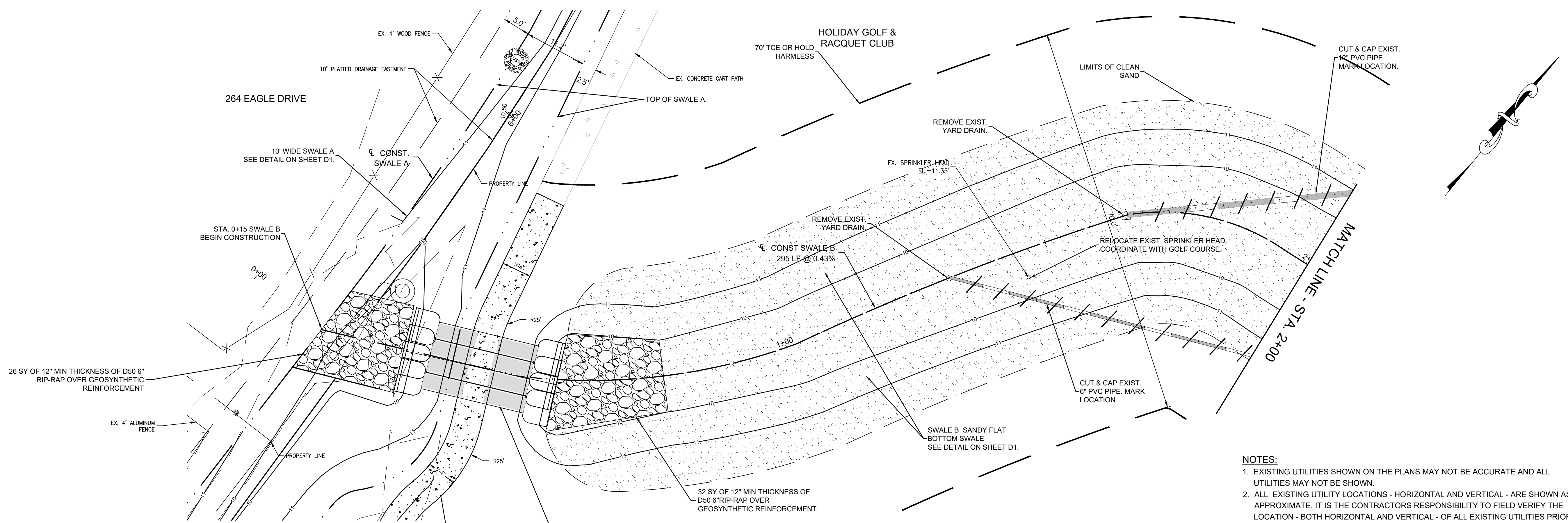
DRAWN BY _____ M.MORE
APPROVED BY _____ M.HURST
CHECKED BY _____ J.SKLARSKI
DATE _____ FEBRUARY, 2023

TITLE
PLAN & PROFILE SWALE B

PROJECT NO. _____ 50089305

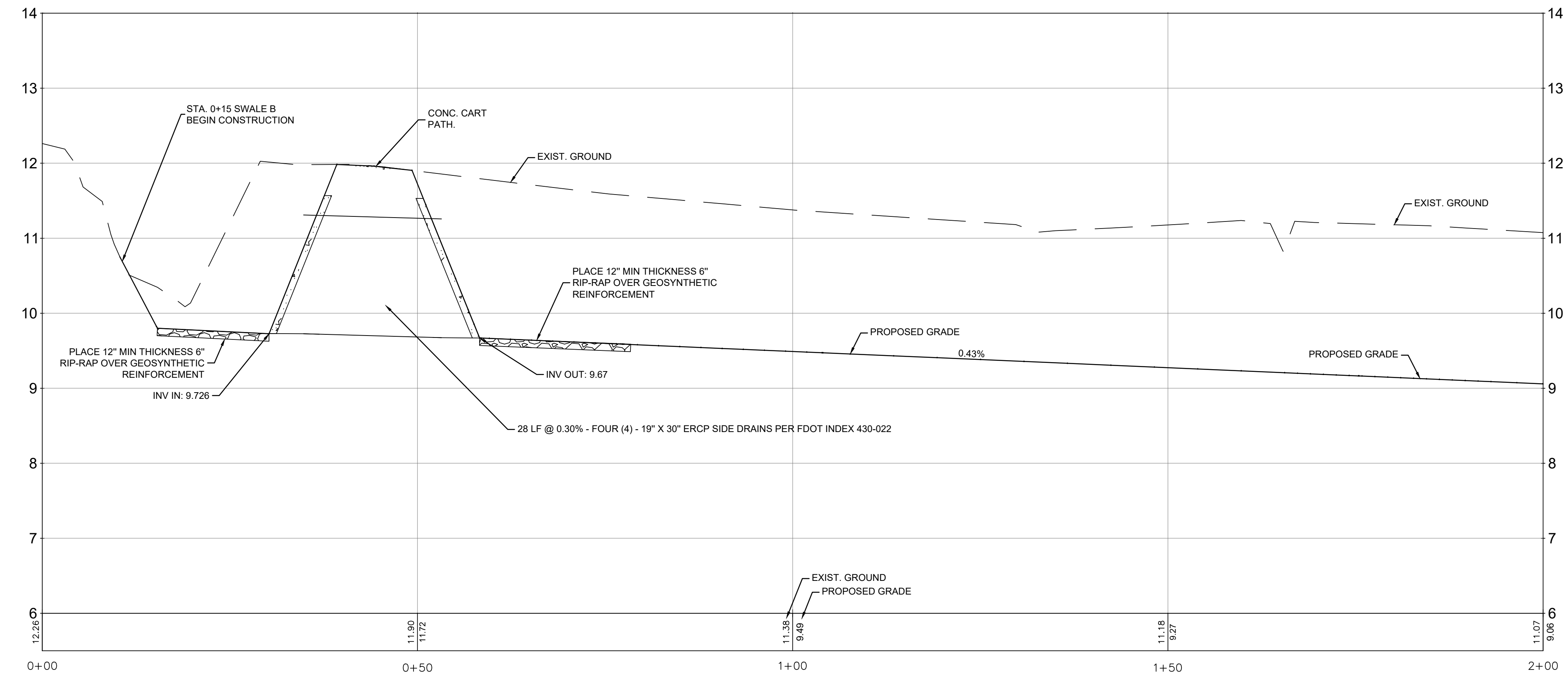
C11

SHEET NO.



PLAN VIEW
SCALE: 1" = 10'

- NOTES:**
- EXISTING UTILITIES SHOWN ON THE PLANS MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
 - ALL EXISTING UTILITY LOCATIONS - HORIZONTAL AND VERTICAL - ARE SHOWN AS APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION - BOTH HORIZONTAL AND VERTICAL - OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION.
 - EXISTING 4-INCH IRRIGATION MAIN IS REPORTED, NOT LOCATED, WITHIN THE LIMITS OF WORK OF SWALE B. CONTRACTOR SHALL COORDINATE WITH GOLF COURSE MAINTANEC E STAFF TO AVOID DAMAGE TO IRRIGATION SYSTEM AND REPAIR IF DAMAGED. IN THE EVENT IRRIGATION MAIN IS EXPOSED IN THE WORK OF SWALE B, CONTRACTOR SHALL REMOVE AND REPLACE IRRIGATION MAIN TO MAINTAIN MINIMUM 3' OF COVER WITHIN THE WORK AREA OF SWALE B.



PROFILE VIEW
SCALE: 1" = 10' HORIZ.
1" = 1' VERT

January 25, 2023 (12:47:05 EST)
K:\50089305_P01_COLONY CLUB DRAINAGE SWALE_C\11\DWG\C11_PLAN_PROF (B-1).DWG (B-1) BY: EBHAKSI

**COLONY CLUB DRAINAGE SWALE
CITY OF PANAMA CITY BEACH
PANAMA CITY BEACH
BAY COUNTY, FLORIDA**

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

RELEASED FOR BID
NOT FOR CONSTRUCTION

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

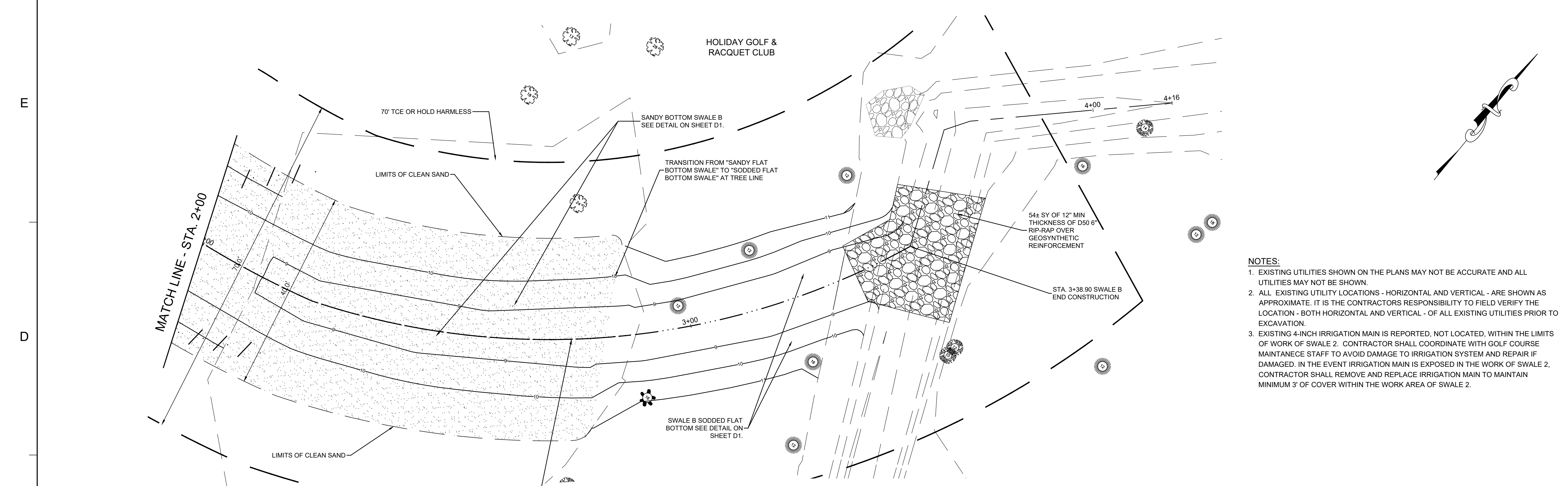
DRAWN BY _____ M.MORE
APPROVED BY _____ M.HURST
CHECKED BY _____ J.SKLARSKI
DATE _____ FEBRUARY, 2023

TITLE
**PLAN & PROFILE
SWALE B**

PROJECT NO. 50089305

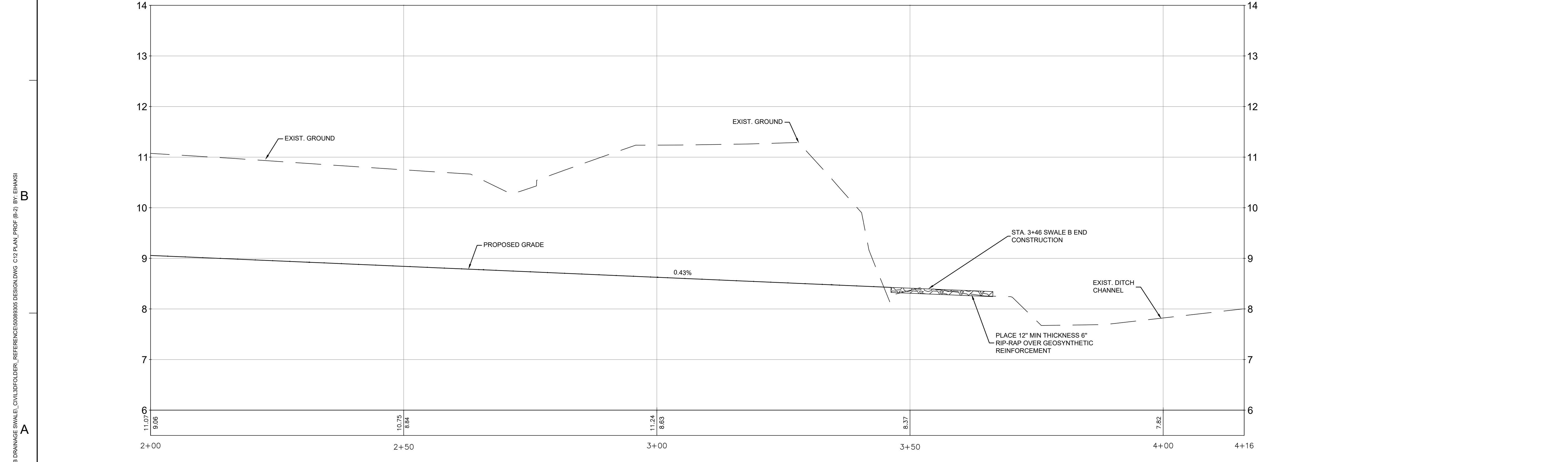
C12

SHEET NO.



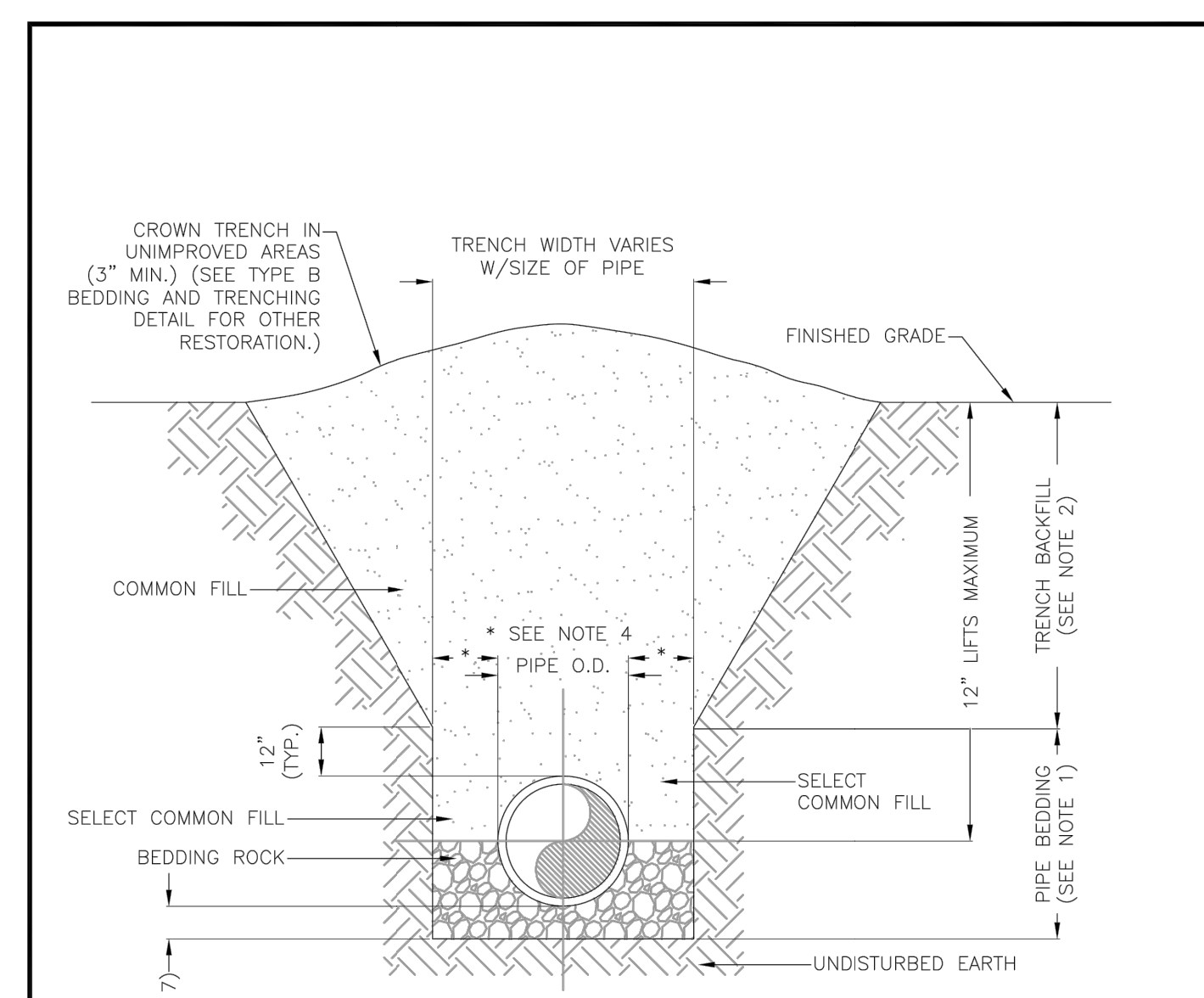
PLAN VIEW
SCALE: 1" = 10'

- NOTES:**
- EXISTING UTILITIES SHOWN ON THE PLANS MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
 - ALL EXISTING UTILITY LOCATIONS - HORIZONTAL AND VERTICAL - ARE SHOWN AS APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION - BOTH HORIZONTAL AND VERTICAL - OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION.
 - EXISTING 4-INCH IRRIGATION MAIN IS REPORTED, NOT LOCATED, WITHIN THE LIMITS OF WORK OF SWALE 2. CONTRACTOR SHALL COORDINATE WITH GOLF COURSE MAINTENANCE STAFF TO AVOID DAMAGE TO IRRIGATION SYSTEM AND REPAIR IF DAMAGED. IN THE EVENT IRRIGATION MAIN IS EXPOSED IN THE WORK OF SWALE 2, CONTRACTOR SHALL REMOVE AND REPLACE IRRIGATION MAIN TO MAINTAIN MINIMUM 3' OF COVER WITHIN THE WORK AREA OF SWALE 2.



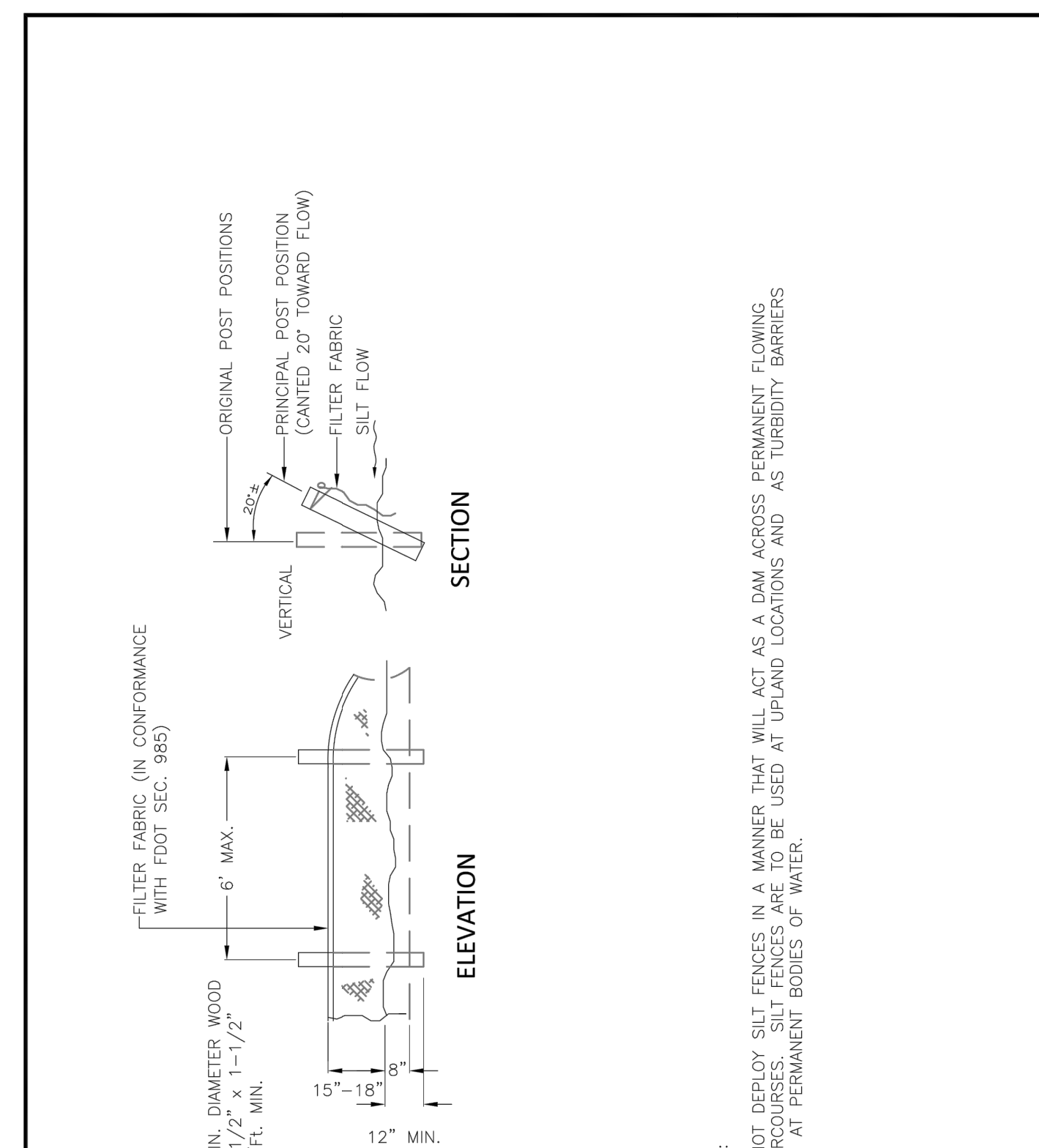
PROFILE VIEW
SCALE: 1" = 10' HORIZ.
1" = 1' VERT

January 25, 2023 (12:47:05 EST)
K:\50089305_PCB_COLONY CLUB DRAINAGE SWALE_CIVIL\FOLDER_REFERENCE\50089305 DESIGN.DWG C12 PLAN_PROF (B-2) BY: EIHAKSI

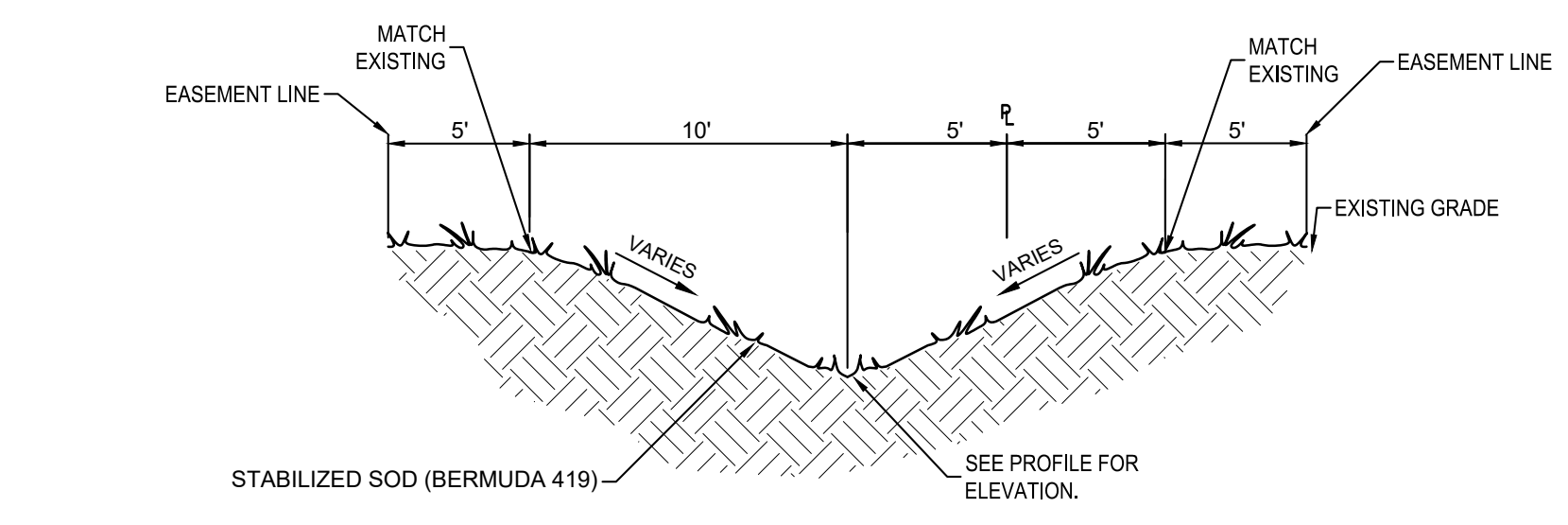


- NOTES:
- 1.) PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - 2.) TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - 3.) USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
 - 4.) (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
 - 5.) ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - 6.) GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE CITY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM PIPE DIAMETER 16" AND LARGER.
 - 7.) DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. CITY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

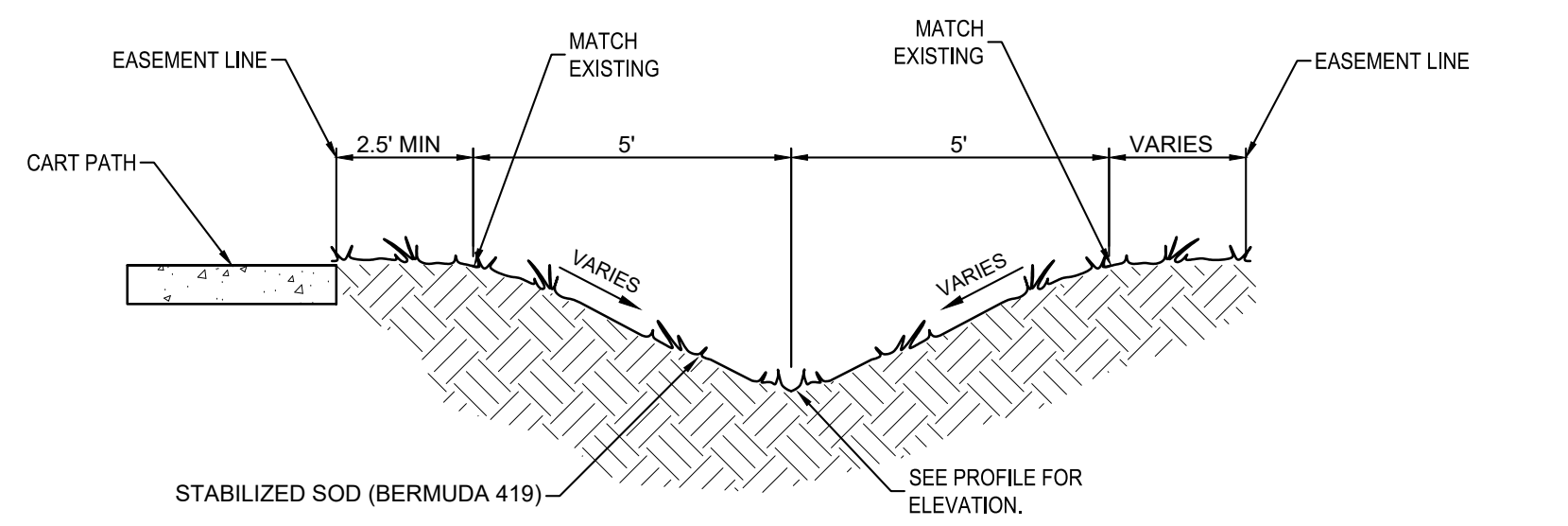
	CITY OF P.C.B UTILITIES STANDARD DETAILS	TRENCH DETAIL TYPE A BEDDING	DATE: MAR 2012
			M-1



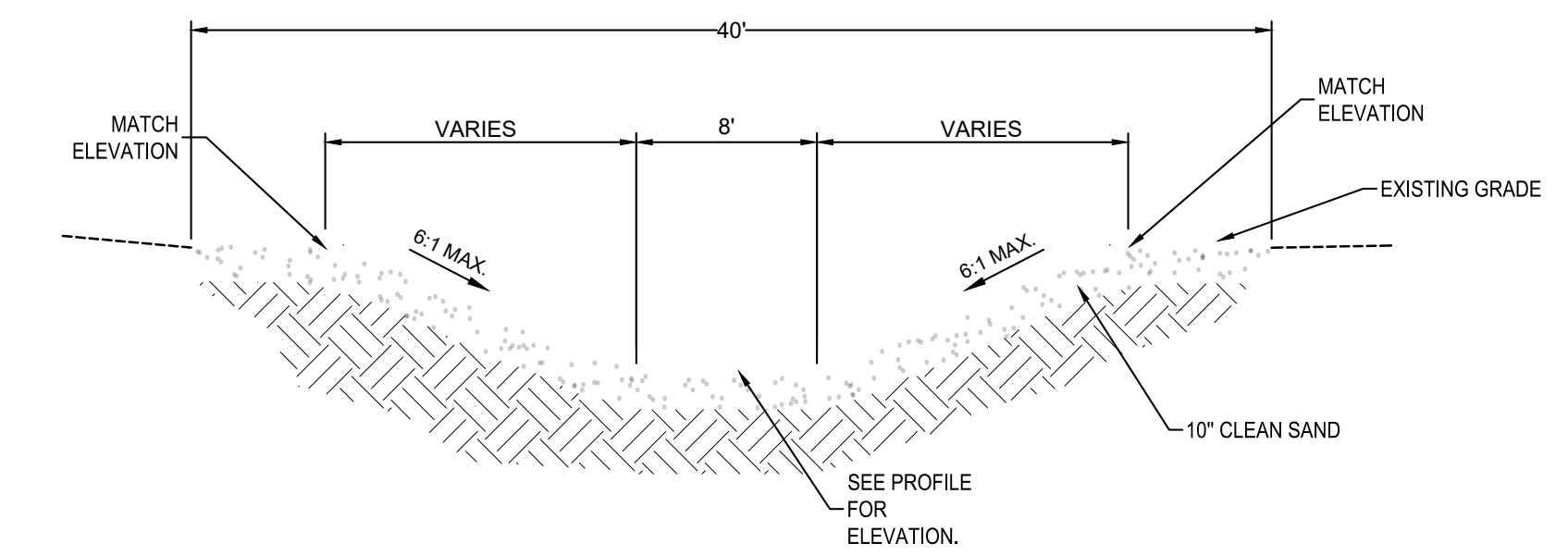
	CITY OF P.C.B UTILITIES STANDARD DETAILS	EROSION CONTROL SILT FENCE DETAIL	DATE: MAR 2012
			M-28



DETAIL 20' WIDE SWALE A
SCALE: N.T.S.

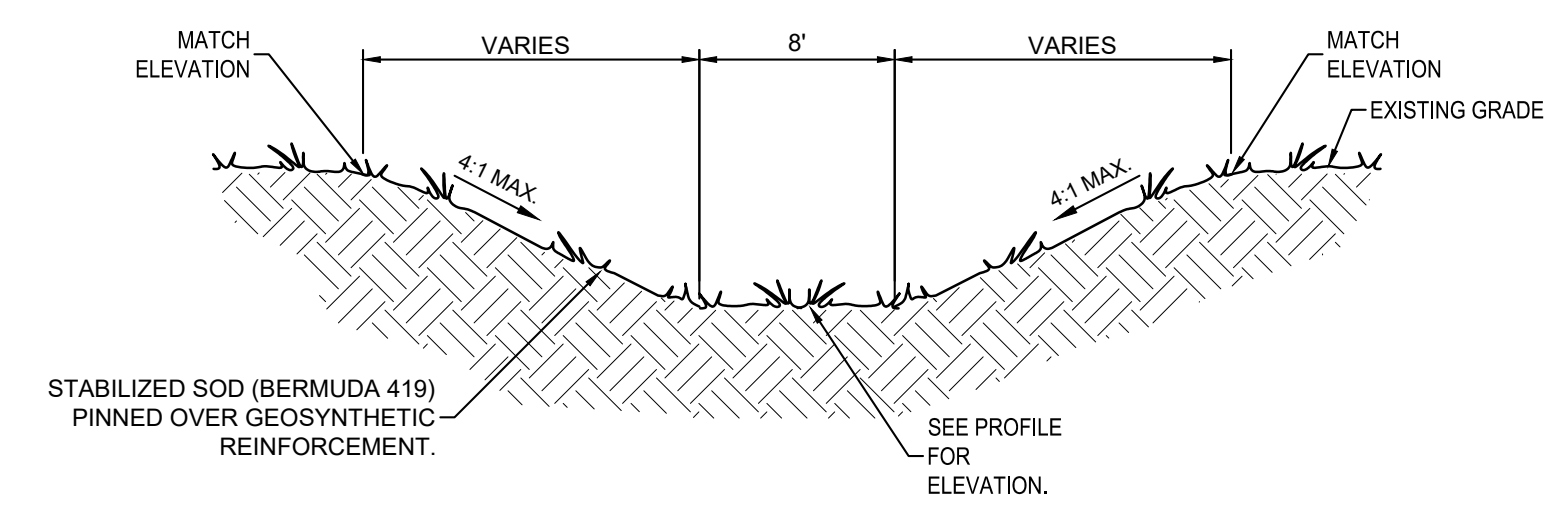


DETAIL 10' WIDE SWALE A
SCALE: N.T.S.

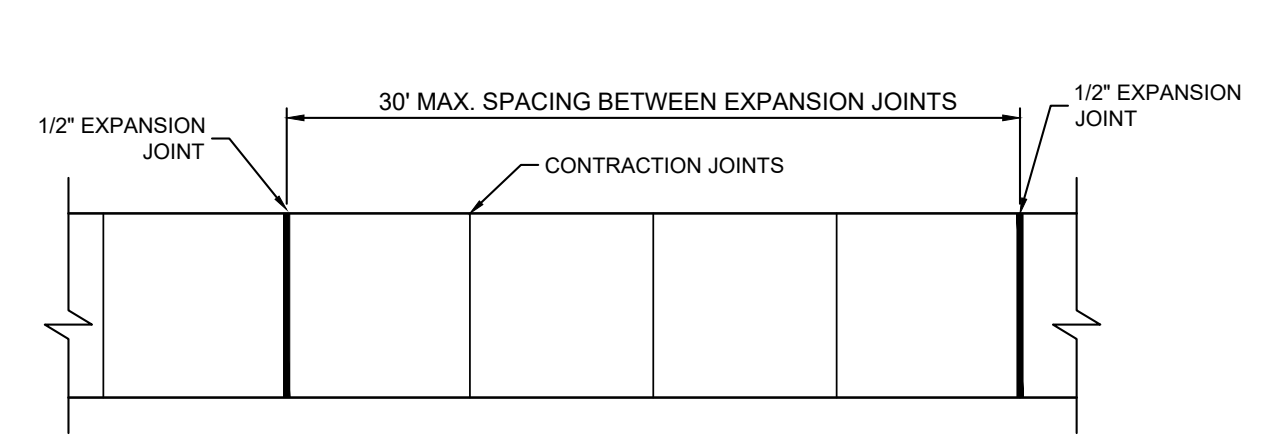
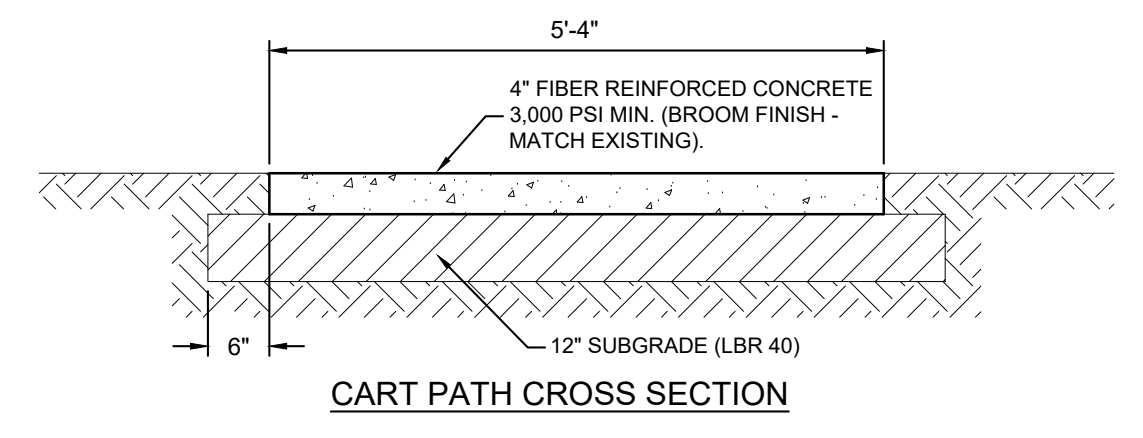


DETAIL SWALE B SANDY FLAT BOTTOM SWALE
SCALE: N.T.S.

- CLEAN SAND NOTES:**
1. THE SAND FILL MATERIAL TO BE PLACED IN SWALE B WORK AREA SHALL BE CLEAN SAND FREE OF CONSTRUCTION DEBRIS, ASPHALT, GRAVEL, ROCKS, CLAY BALLS, BRANCHES, LEAVES AND OTHER ORGANICS, OIL, POLLUTANTS AND ANY OTHER NON-COMPATIBLE MATERIALS. SAMPLING OF MATERIAL SHALL TAKE PLACE AT A RATE OF ONE SAMPLE WITH FIELD VERIFICATION PER 50 CY OF MATERIAL PLACED. THE ENGINEER OR DESIGNATED FIELD TECHNICIAN SHALL VISUALLY VERIFY TO MUNSELL COLOR GRAINSIZE TO ENSURE COMPLIANCE DURING CONSTRUCTION OPERATIONS.
 2. THE GRAIN SIZE (BETWEEN 0.30MM AND 0.50MM) OF THE FILL MATERIAL SHALL CONFIRM TO THE FOLLOWING (ALL SIEVE SIZES REFER TO U.S. STD. SIEVES):
 - 2.1. NOT MORE THAN 5% FINER THAN THE NO. 200 SIEVE
 - 2.2. NOT MORE THAN 10% FINER THAN THE NO. 140 SIEVE
 - 2.3. NOT MORE THAN 50% FINER THAN THE NO. 90 SIEVE
 3. CARBONATE CONTENT OF THE FILL MATERIAL SHALL BE BETWEEN 0% AND 10%.
 4. SAND COLOR: AT MINIMUM, USING THE MUNSELL COLOR SCALE, ALL SAND PLACED SHALL HAVE A VALUE OF AT LEAST 7.0 OR LIGHTER AND A CHROMA OF BETWEEN 1.0 AND 2.0 (INCLUSIVE) WHEN GRADED ON THE 5 YR, 7.5 YR, OR 10YR HUES UNDER MOST SAMPLE CONDITIONS. MATERIAL WITH HIGHER VALUE GRADES AND HIGHER CHROMA GRADES (WITHIN THE CHROMA RANGE SPECIFIED), ARE PREFERRED.



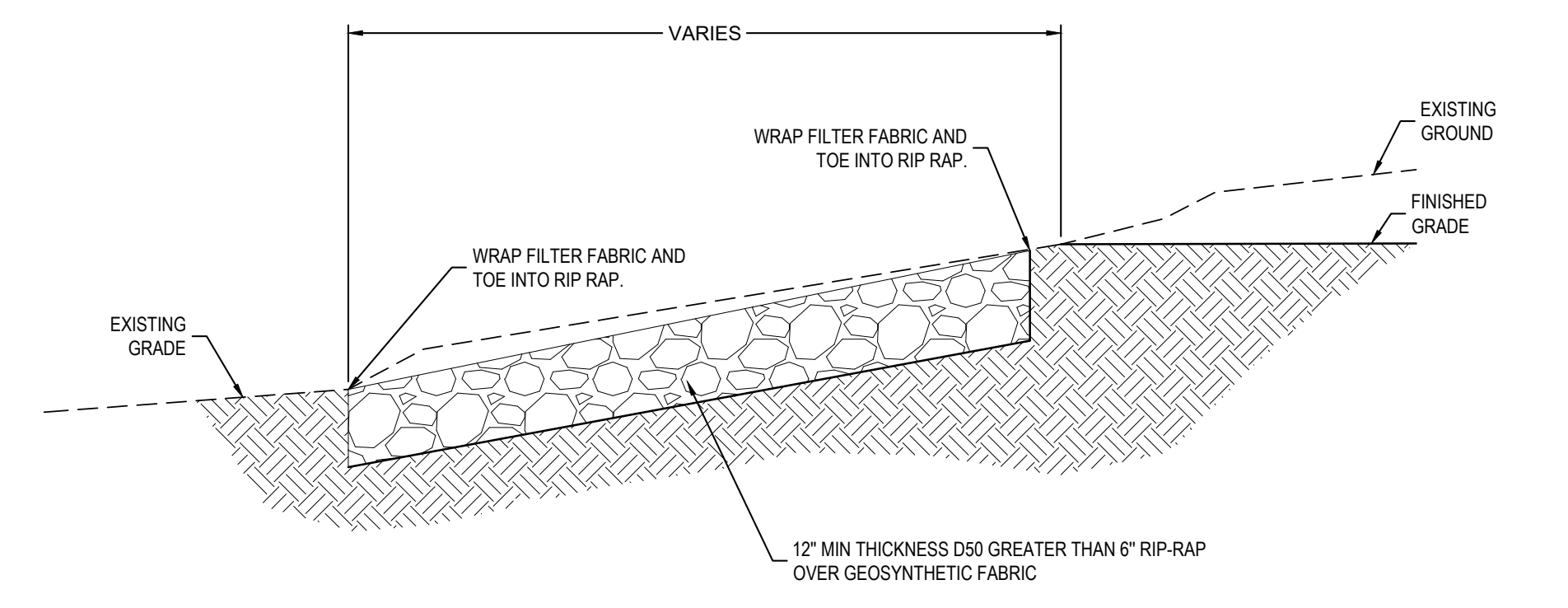
DETAIL SWALE B SODDED FLAT BOTTOM SWALE
SCALE: N.T.S.



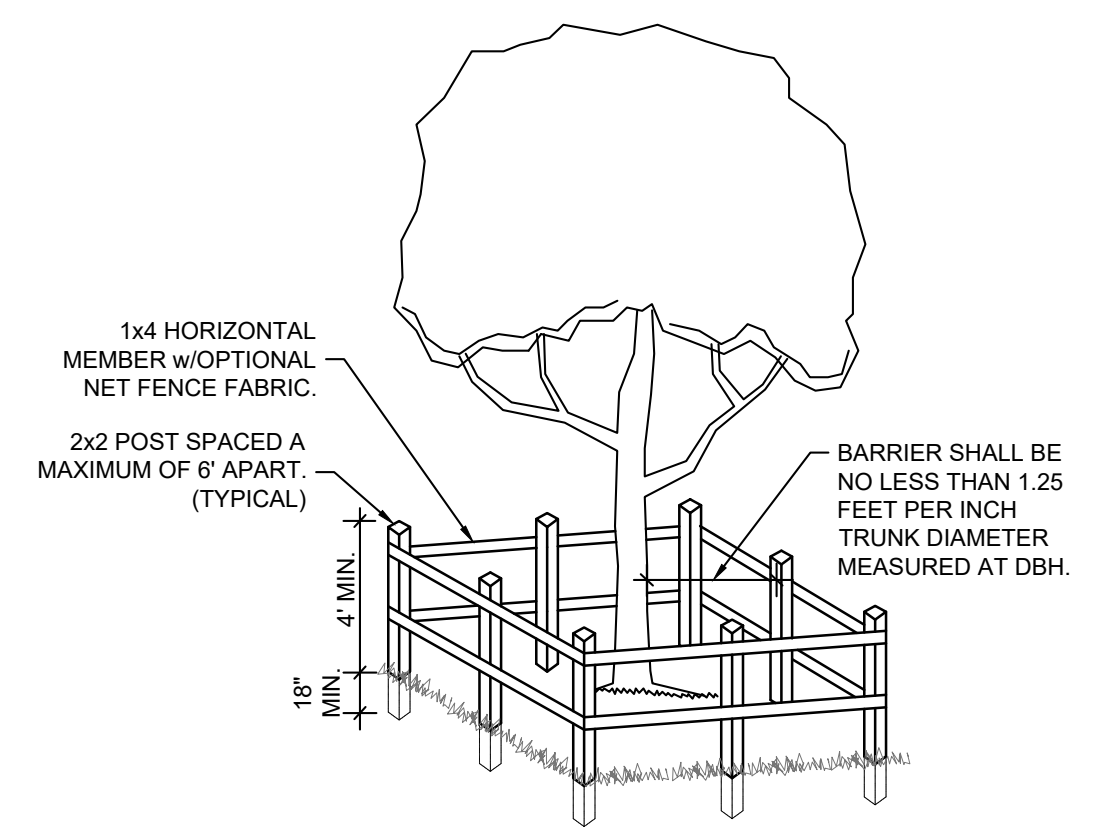
- NOTES:
- 1.) FOR WALKS 8' AND NARROWER, SPACE TRANSVERSE CONTRACTION JOINTS AT INTERVAL EQUAL TO WIDTH OF WALK OR AS NOTED.
 - 2.) CONTRACTION JOINTS TO BE 1" DEEP SCORED, SAW-CUT, OR FORMED WITH INSERT AT CONTRACTORS OPTION UNLESS NOTED OTHERWISE. SCORED JOINTS TO USE AN APPROVED TOOL. INSERTS TO BE GREENSTREAK ZIPCAP #855 OR EQUAL. SCORED JOINTS TO BE EDGED WITH 1/8" RADIUS.
 - 3.) EXPANSION JOINT REQUIRED WHERE SHOWN. EXPANSION JOINT TO CONSIST OF 1/2" FIBER BOARD AND GREENSTREAK GAP SEAL #624 OR EQUAL.
 - 4.) ALL SIDEWALKS SHALL HAVE A MAXIMUM 2% CROSS SLOPE.

DETAIL CONCRETE SIDEWALK (GOLF CART PATH)
SCALE: N.T.S.

- TREE PROTECTION NOTES:**
1. TREE PROTECTION BARRIER SHALL BE PLACED NO LESS THAN 1.25 FEET PER INCH TRUNK DIAMETER (DBH) FROM THE PROTECTED TREE.
 2. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE MINIMUM SETBACK OF A TREE TO REMAIN ON SITE UNLESS OTHERWISE APPROVED BY THE CITY.
 3. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING STANDARDS.
 4. ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA INDICATED ON THE PLAN.
 5. THE IRRIGATION SYSTEM (IF PRESENT) SHALL BE DESIGNED TO MINIMIZE ROOT DISTURBANCE TO EXISTING TREES AND OTHER VEGETATION TO BE RETAINED.



DETAIL RIP-RAP AT DITCH OUTLET
SCALE: N.T.S.



DETAIL TREE PROTECTION BARRIER
SCALE: N.T.S.

SEAL

J. MORGAN HURST, P.E. 60813
EB 0008794

RELEASED FOR BID
NOT FOR CONSTRUCTION

SCALE

AS SHOWN

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ M.MORE
APPROVED BY _____ M.HURST
CHECKED BY _____ J.SKLARSKI
DATE _____ FEBRUARY, 2023

TITLE
MISCELLANEOUS DETAILS

PROJECT NO. 50089305

D1

SHEET NO.

January 28, 2023 (12:24:14 EST)
K5089305_PCB_COLONY CLUB DRAINAGE SWALE_CADD\FOLDER_PRODUCTION\0089305_COVER_NOTES_EPCADWG.DWG\MISCDETAILS BY: EHM/SI