COVE LANDING ROAD CULVERT REHABILITATION

THIRD TAX DISTRICT, BISHOPVILLE, WORCESTER COUNTY, MARYLAND

GENERAL NOTES:

1. ALL WORK PREPARED BY THESE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL BE NEW. WHEREVER THE WORD "PROPOSED" IS USED, IT IS CONSIDERED INTERCHANGEABLE WITH THE WORD "NEW" AND IS INCLUDED IN THE REQUIRED WORK.

2. ALL EXISTING CONDITIONS AND ALIGNMENTS SHOWN ARE BASED ON THE TOPOGRAPHIC SURVEY PERFORMED BY CORNERSTONE SURVEYING, INC. DATED FEBRUARY 6, 2024. ELEVATIONS SHOWN ARE IN THE NAVD88 DATUM. THE SAID SURVEY AND HORIZONTAL DATUM IS THE VIRGINIA SOUTH GRID. THE CONTRACTOR SHALL EXAMINE A COPY OF THE SAID SURVEY AND VISIT THE SITE IN ORDER TO DETERMINE TO HIS SATISFACTION THE QUANTITIES OF WORK REQUIRED TO BE PERFORMED.

3. UNLESS OTHERWISE NOTED, ALL ELEVATIONS FOR GRAVITY, STORM AND SANITARY SEWER PIPES ARE INVERTS AND ALL ELEVATIONS FOR PRESSURE WATER OR FORCE MAINS ARE TOP OF PIPE ELEVATIONS.

4. THESE DRAWINGS SHOW INFORMATION REGARDING UNDERGROUND UTILITIES WHICH EXIST OR MAY EXIST ALONG THE LINES OF WORK. THE LOCATION OF UTILITIES SHOWN HAS BEEN PROVIDED FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. THE OWNER SHALL BE GIVEN NOTIFICATION BY THE CONTRACTOR PRIOR TO TEST PITTING. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. IF THE CONTRACTOR RELIES ON SAID INFORMATION, HE DOES SO AT HIS OWN RISK. THE GIVING OF THE INFORMATION ON THESE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO SUPPORT AND PROTECT ALL EXISTING UTILITIES AND APPURTENANCES. SHOULD ANY EXISTING UTILITIES BE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE DAMAGE CAUSED, TO THE UTILITY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL SPECIFICALLY ADDRESS ANY CONFLICTS WITH A&N ELECTRIC POWER LINES AND VERIZON AND OTHER CARRIERS TELECOMMUNICATION LINES AS PART OF THE WORK BID.

5. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THESE DRAWINGS AND SPECIFICATIONS, AND TO ALL APPLICABLE REQUIREMENTS OF THE TOWN OF BERLIN, WORCESTER COUNTY, MARYLAND STATE HIGHWAY DEPARTMENT, MARYLAND DEPARTMENT OF THE ENVIRONMENT AND ANY OTHER REGULATORY BODY THAT HAS JURISDICTION

6. ALL DISTURBED AREAS SHALL BE SMOOTHLY GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM PROPOSED PIPES AND/OR STRUCTURES AND SHALL BE STABILIZED WITH TOPSOIL, SEED AND MULCH, EXCEPT IN AREAS CALLING FOR PAVING. IF SETTLEMENT OCCURS, THE AREA OF SETTLEMENT SHALL BE RESTORED TO GRADE, RESEEDED AND REMULCHED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST. THE CONTRACTOR SHALL PROVIDE SEED TYPE AS SPECIFIED.

7. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS.

8. THE CONTRACTOR SHALL PROVIDE NECESSARY STAKEOUT OF LINE AND GRADE FOR CONSTRUCTION.

9. THE OWNER RESERVES THE RIGHT TO AWARD OTHER CONTRACTS OR PERFORM OTHER WORK IN THE VICINITY OF WORK DESIGNATED ON THESE DRAWINGS. THE CONTRACTOR SHALL COOPERATE WITH AND COORDINATE HIS OPERATIONS WITH OTHER CONTRACTORS OR WORKMEN EMPLOYED BY THE COUNTY, ANPDC AND VDOT.
10. NO INFORMATION REGARDING DEPTH TO ANY TEMPORARY OR PERMANENT GROUND WATER TABLE IS PROVIDED ON THESE DRAWINGS AS IT RELATES TO EXCAVATION OR INSTALLATION OF UTILITIES IN TRENCHES. THE CONTRACTOR SHALL INVESTIGATE TO HIS SATISFACTION THE SITE CONDITIONS REGARDING THE DEPTH TO GROUND WATER. GENERALLY, PIPING, TRENCH AND STRUCTURE CONSTRUCTION SHALL BE PROSECUTED IN A DEWATERED STATE, CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ALL EXCAVATIONS FOR JUNCTION BOXES AND OTHER CHAMBERS SHALL BE CONTINUALLY DEWATERED UNTIL THE BACKFILL OPERATION HAS BEEN COMPLETED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR TEST PITTING.

11. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.

12. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING, TWO (2) DAYS PRIOR TO BEGINNING ANY WORK SHOWN ON THESE DRAWINGS:

A) WORCESTER COUNTY DPW ROADS DIVISION
B) MISS UTILTY

C) J. W. SALM ENGINEERING, INC.

(410) 632-2244 (800) 257-7777

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS RESULTING FROM ANY EARTH MOVING

AND/OR TEMPORARY STOCKPILING OF EARTH OR OTHER MATERIALS ON SITE.

14. THESE DRAWINGS, THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO J.W. SALM ENGINEERING, INC. AND SHALL NOT BE ALTERED OR REUSED WITHOUT WRITTEN PERMISSION. COPYRIGHT, LATEST DATE HEREON. ANY DRAWING, REPRODUCTION, PLOT, ETC., WITHOUT A WET INK SIGNATURE AND SEAL IS NOT CERTIFIED AS TO ACCURACY AND AUTHENTICITY.

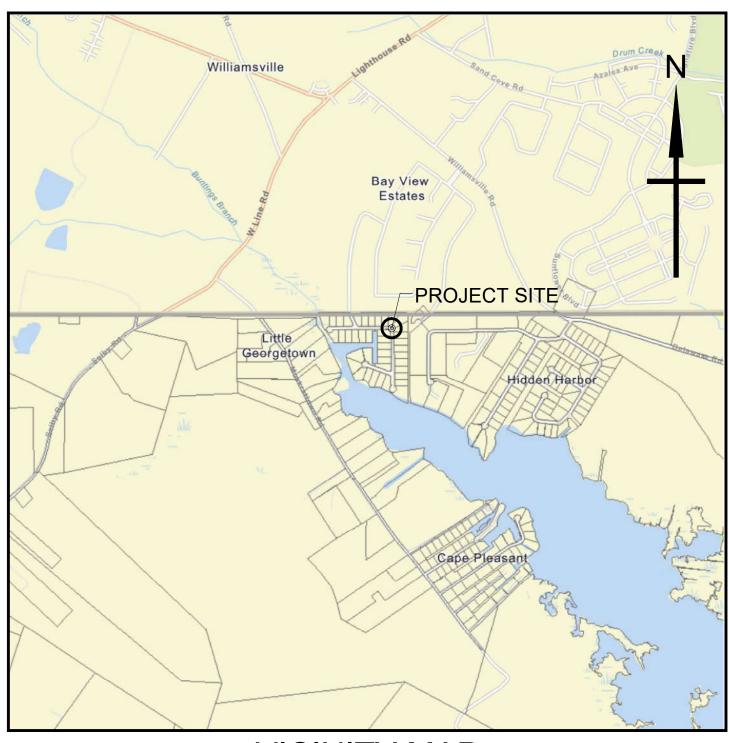
15. COMPACTION FOR ALL AREAS WITHIN THE PROJECT LIMITS SHALL BE: 98% OF MODIFIED PROCTOR DENSITY AT +/- 2 % OF OPTIMUM MOISTURE CONTENT.

LEGEND:

EXISTING FEATURES

RIGHT-OF-WAY LINE	
TREE LINE	
ADJACENT PARCEL LINE	
TOP OF BANK	
CONTOUR LINE	
EDGE OF GRAVEL	
STORMDRAIN	
EDGE OF PAVEMENT	
MEAN HIGH WATER LINE	
MEAN LOW WATER LINE	
SPOT ELEVATION	+3.1
RIP RAP	>000000 >000000 >000000

PROPOSED FEATURES



VICINITY MAP

INDEX OF DRAWINGS:

DRAWING NO.:	SHEET NO.	TITLE:
542-01-001	1 OF 5	COVER SHEET, SITE DATA, INDEX AND VICINITY MAP
542-01-002	2 OF 5	EXISTING CONDITIONS PLAN
542-01-003	3 OF 5	SITE PLAN
542-01-004	4 OF 5	SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN
542-01-005	5 OF 5	DETAILS AND NOTES

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			l v	WORCESTER COUNTY DPW				
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PRO PRO PRC 1, EV	SONAL ENGLISH			J. W. SALM ENGINEERING, INC. P.O. BOX 397, 9842 MAIN STREET, SUITE 3				
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CEN OF HELL	Junimmun.			SCALE:	DATE:	DRAWING No.:	SHEET No.:	
REBY PARE ILY L ER T NSE	6/4/25	JWS3		1				
I HEF PREI A DU UNDI LICE	MARYLAND PROFESSIONAL ENGINEER LICENSE No. 19731			N.T.S.	MAR. 2025	542-01-001	1 of 5	

OWNER/APPLICANT/DEVELOPER:

WORCESTER COUNTY DPW ROADS DIVISION

5764 WORCESTER HIGHWAY SNOW HILL, MD 21863

PHONE: 410.632.2244

ENGINEER:

J. W. SALM ENGINEERING, INC.

P.O. BOX 397, 9842 MAIN STREET, SUITE 3

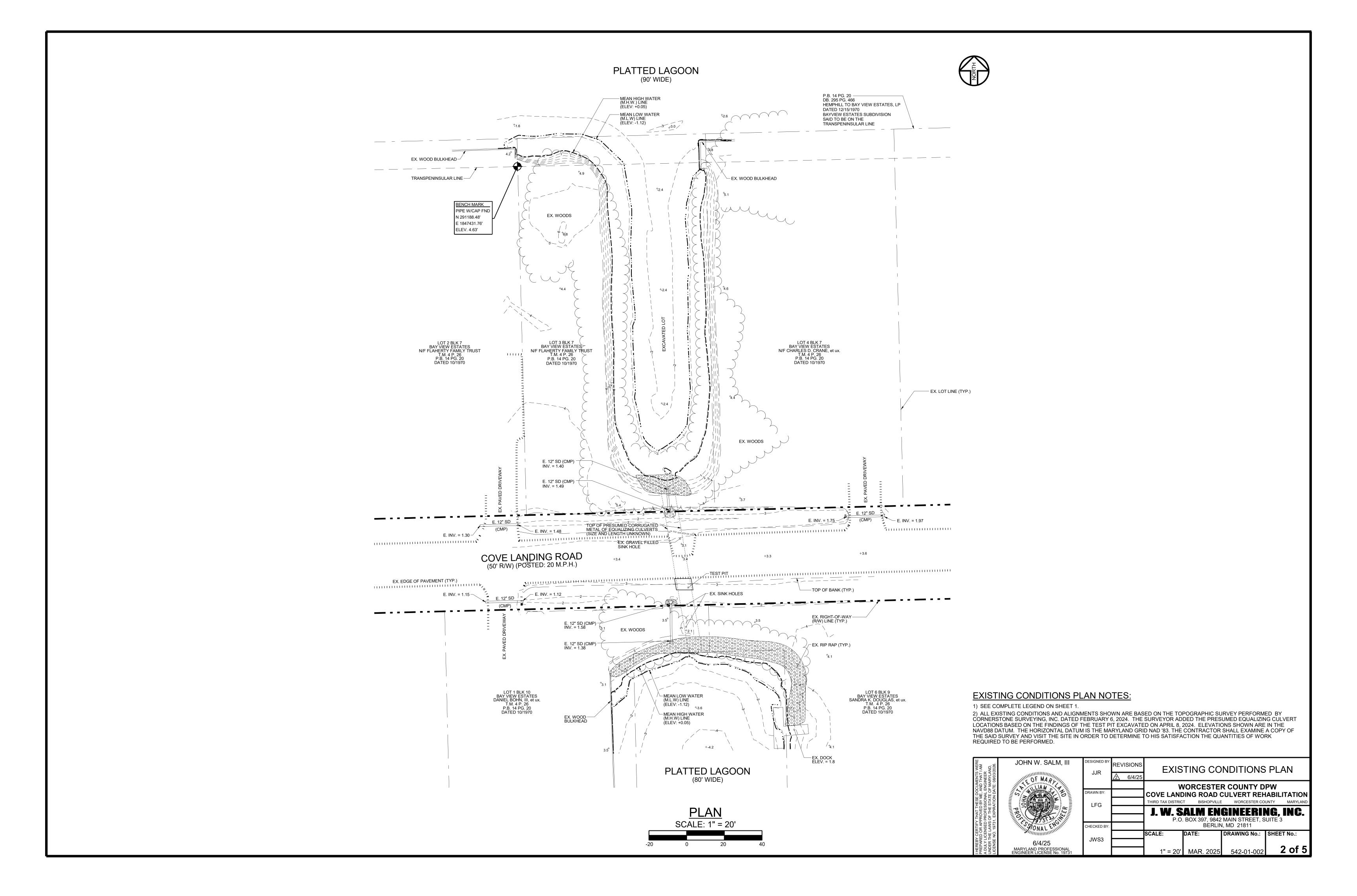
BERLIN, MD 21811

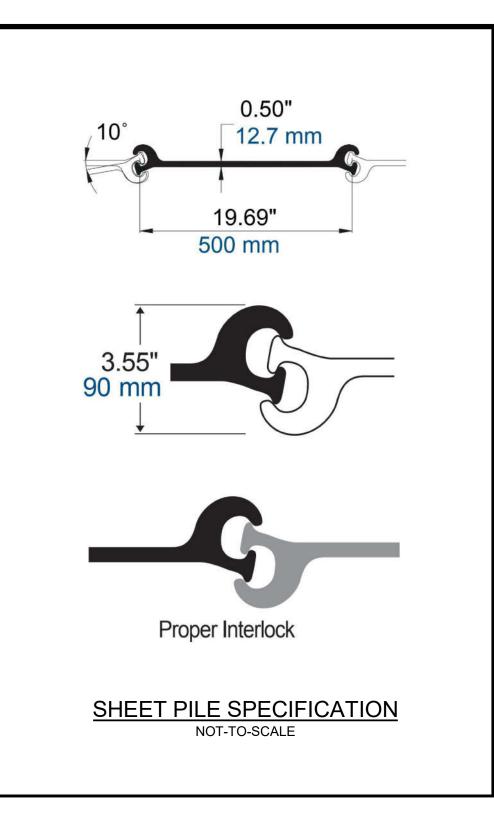
PHONE: 410.641.0126

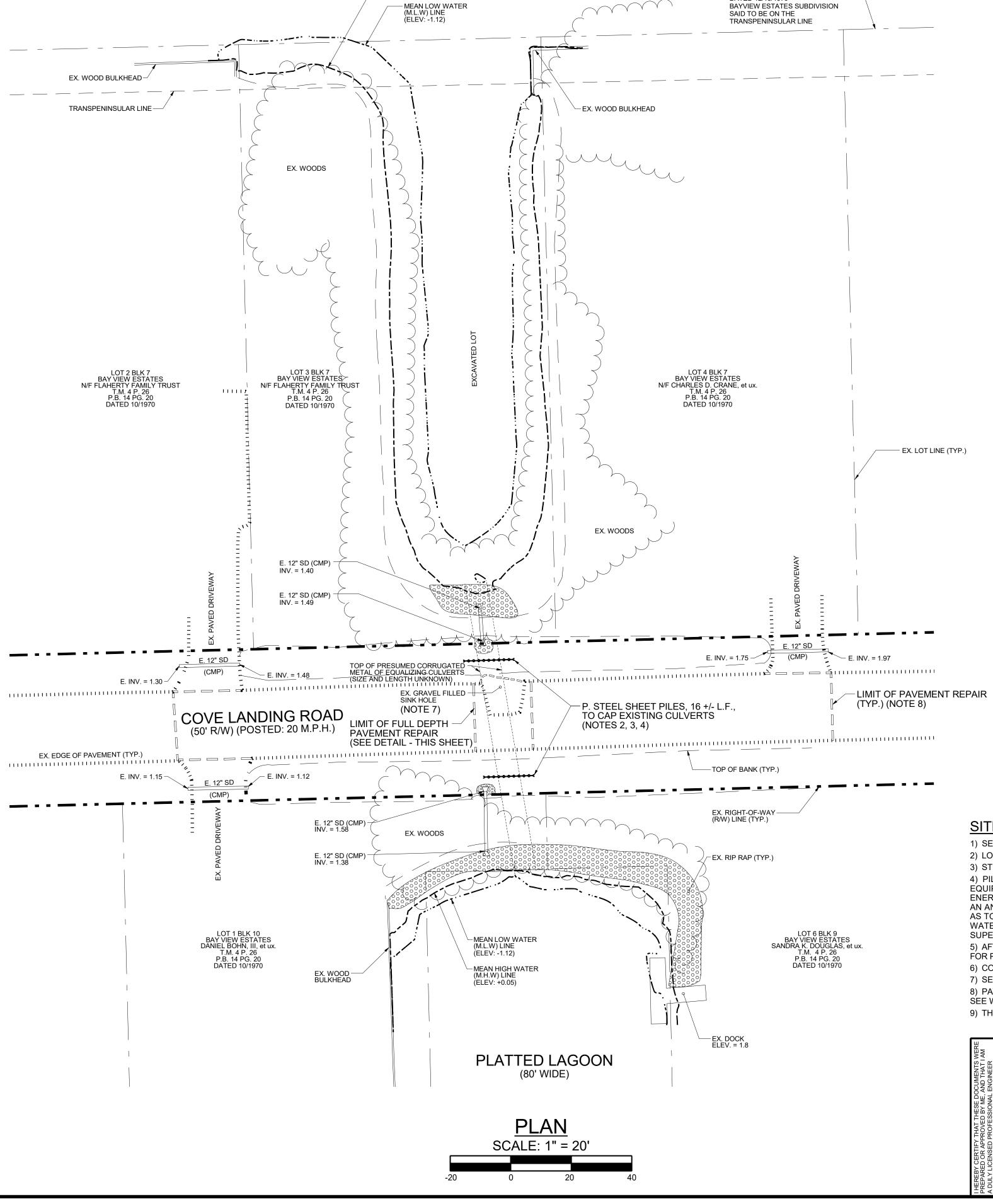
SURVEYOR:

CORNERSTONE SURVEYING, INC.

38843 WISTERIA LANE SELBYVILLE, DE 19975 PHONE : 302.236.7807







PLATTED LAGOON

(90' WIDE)

- MEAN HIGH WATER (M.H.W.) LINE (ELEV: +0.05) P.B. 14 PG. 20 — DB. 295 PG. 466

DATED 12/15/1970

HEMPHILL TO BAY VIEW ESTATES, LP

COMPACTED SUBGRADE OR 12" LIFT
OF COMPACTED STRUCTURAL FILL
230 # / SQ. YD. MD # 57 STONE
PULVERIZED INTO 6" OF BASE

WORCESTER COUNTY
PAVEMENT SECTION DETAIL
NOT-TO-SCALE

SITE PLAN NOTES:

1) SEE COMPLETE LEGEND ON SHEET 1.

2) LOCATION OF PROPOSED DRIVEN STEEL SHEET PILES.

3) STEEL SHEET PILES SHALL BEAR AT A MINIMUM DEPTH OF 16 FEET BELOW THE GROUND SURFACE.

4) PILES SHALL BE DRIVEN BY STEAM, AIR OR DIESEL HAMMERS. NO DROP HAMMERS WILL BE ALLOWED. DRIVING EQUIPMENT SHALL BE SINGLE OR DOUBLE ACTING STEAM, PNEUMATIC, OR DIESEL HAMMER WITH A RATED STRIKE ENERGY OF NOT LESS THAN 7,000 OR MORE THAN 20,000 FOOT-POUNDS PER BLOW. HAMMER SHALL BE EQUIPPED WITH AN ANVIL TO FIT THE TYPE OF PILE DRIVEN. HAMMER AND PILE SHALL BE SUPPORTED IN FIXED LEADS ARRANGED SO AS TO HOLD THE PILE FIRMLY IN POSITION AND REMAIN CONCENTRIC WITH THE ANVIL WHILE BEING DRIVEN. USE OF WATER JETTING WILL NOT BE PERMITED. DRIVING OF PILES SHALL BE UNDER THE DIRECTION OF QUALIFIED COMPETENT SUPERVISION WITH ALL NECESSARY RECORDS AND DATA COMPILED FOR SUBMISSION TO THE ENGINEER OF RECORD.

5) AFTER DRIVING SHEET PILES, USE EXISTING GRAVEL FILLED SINKHOLE, LOCATED WITHIN THE PAVED RIGHT-OF-WAY,

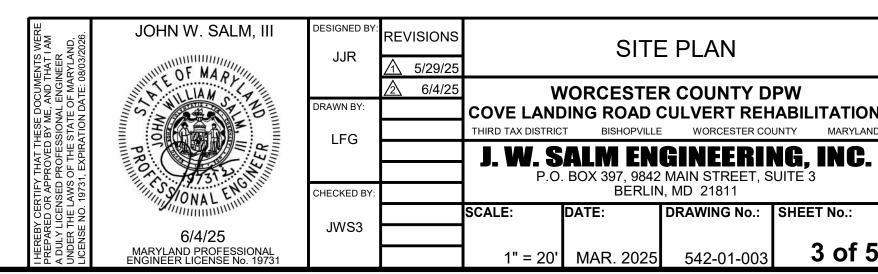
FOR PUMPING LIGHTWEIGHT CONCRETE INTO THE ABANDONED EQUALIZING CULVERTS.

6) CONCRETE SHALL BE A LIGHTWEIGHT CONCRETE WITH A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 1,500 PSI.

7) SEE PAVEMENT REPAIR AND OVERLAY DETAIL ON THIS SHEET.

8) PAVEMENT REPAIR LIMITS EXTEND 100 FT. TO EACH SIDE OF THE CENTERLINE OF EXISTING LOCATION OF CULVERTS. SEE WORCESTER COUNTY PAVEMENT SECTION DETAIL ON THIS SHEET.

9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL, SEE DETAIL ON SHEET 4.



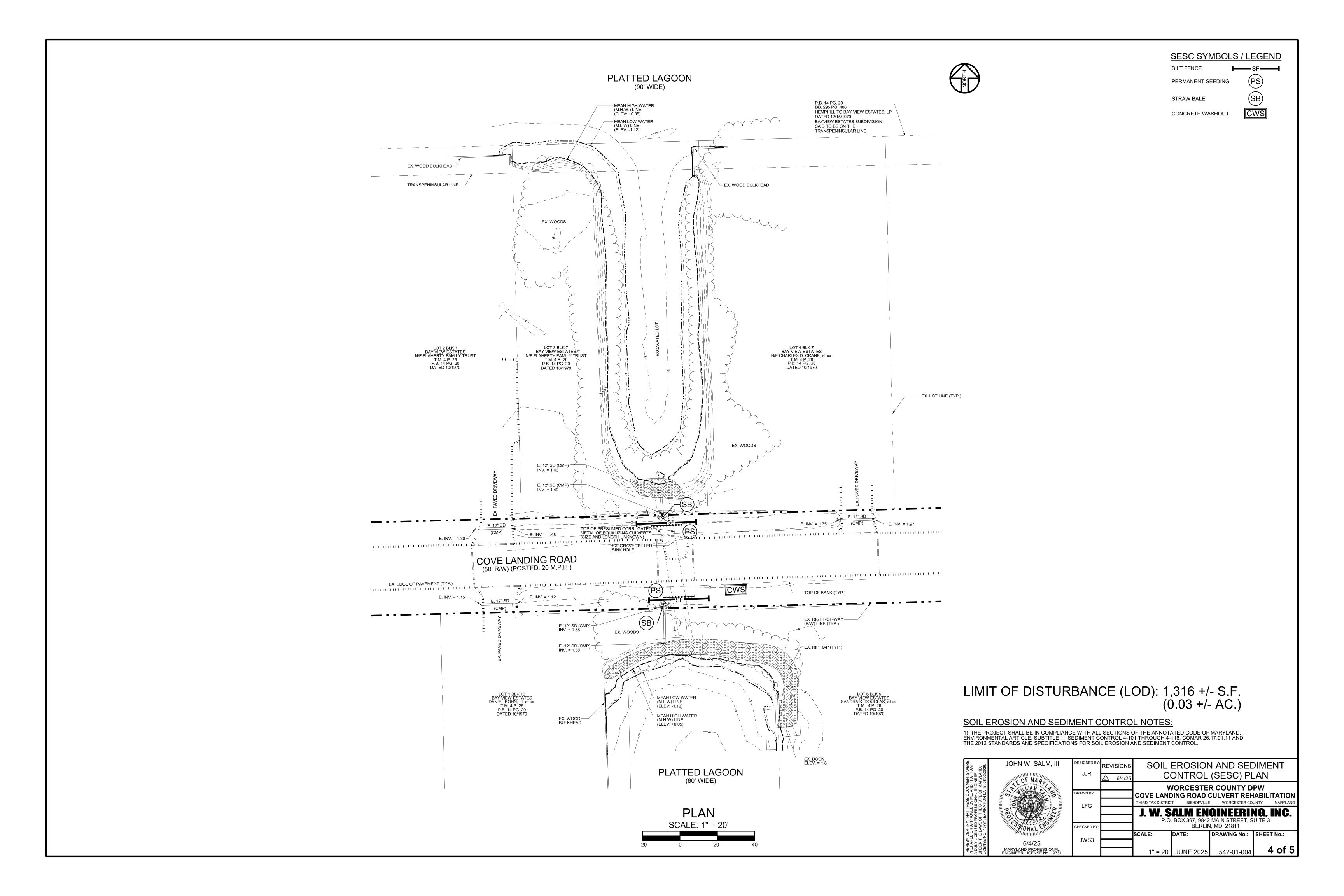
OVERLAY (218 +/- L.F.) FULL DEPTH REPAIR (19 +/- L.F.) (NOTE P5) 1-1/2" SURFACE EXISTING -ASPHALT PAVEMENT PAVEMENT (9.5 MM, PG. 64S-22) REQUIRED SAW CUT -(TYP. - BOTH SIDES) - SELECT BORROW 2" BASE COURSE (IF REQUIRED) (NOTE P4) LIGHTWEIGHT CONCRETE UNDISTURBED EARTH (NOTES 5 AND 6)

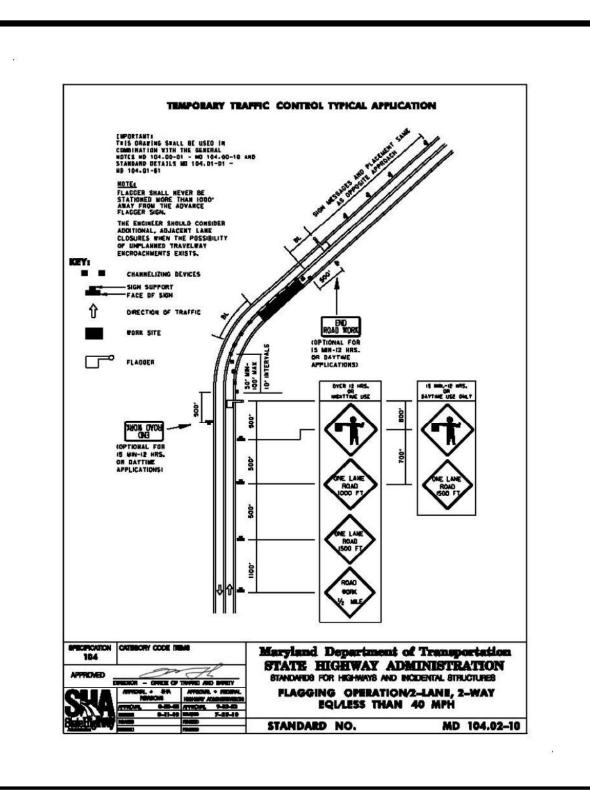
NOTES

P1) PAVEMENT REPAIR SHALL BE PERFORMED TO THE SATISFACTION OF WORCESTER COUNTY AND THE ENGINEER.
P2) CONTRACTOR SHALL MEET ON-SITE WITH WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS,
ROADS DIVISION AND THE ENGINEER PRIOR TO PERFORMING ANY WORK ON COUNTY ROADS.
P3) ALL BACKFILL AND COMPACTION SHALL BE PERFORMED ONLY IN THE PRESENCE OF THE ENGINEER OR
A REPRESENTATIVE OF THE WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS, ROADS DIVISION.
P4) COMPACT EXISTING SUITABLE MATERIAL OR SELECT FILL IN 6" LIFTS TO 98% OF MODIFIED PROCTOR DENSITY
AT +/-2% OF OPTIMUM MOISTURE CONTENT.

P5) FULL DEPTH PAVEMENT REPAIR SHALL EXTEND 2-FEET ON EITHER SIDE OF THE EXCAVATION WIDTH, AND SHALL BE CONSTRUCTED FOR THE FULL ROADWAY WIDTH.

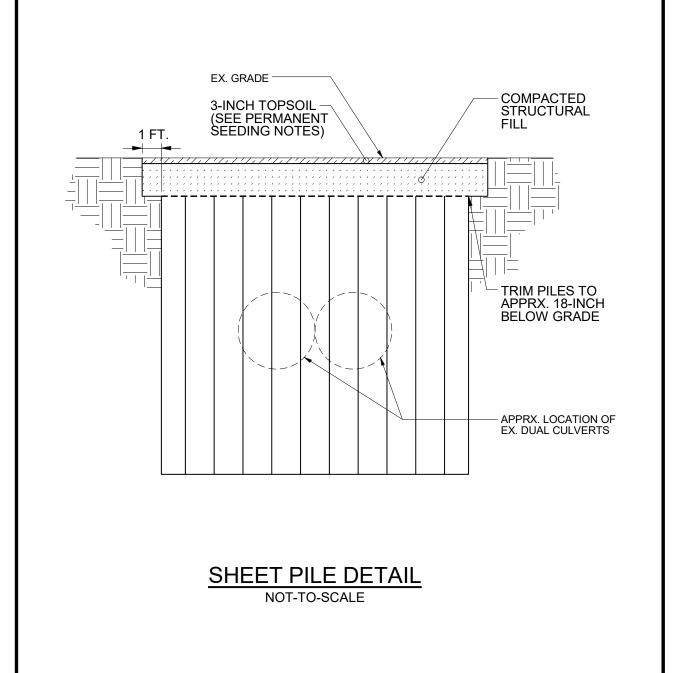
PAVEMENT REPAIR AND OVERLAY DETAIL

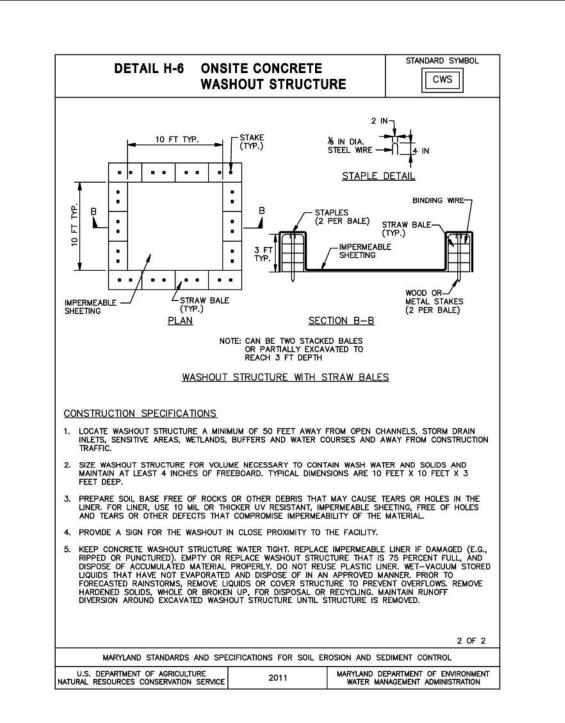


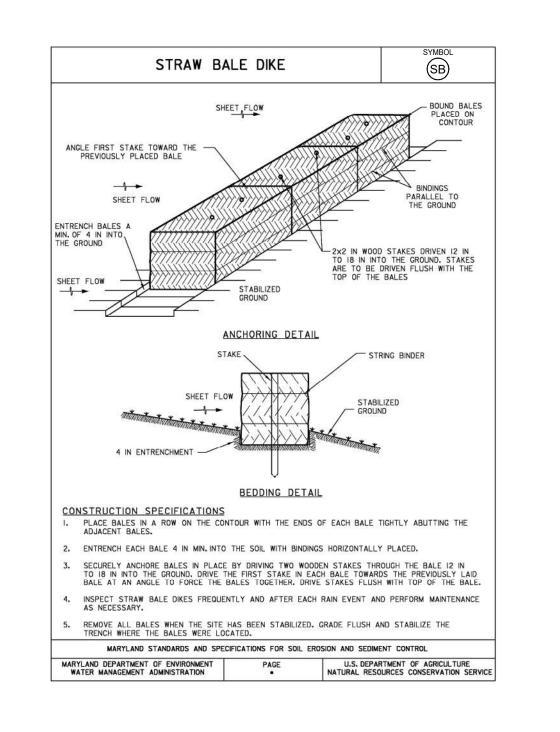


Permanent Seeding Summary

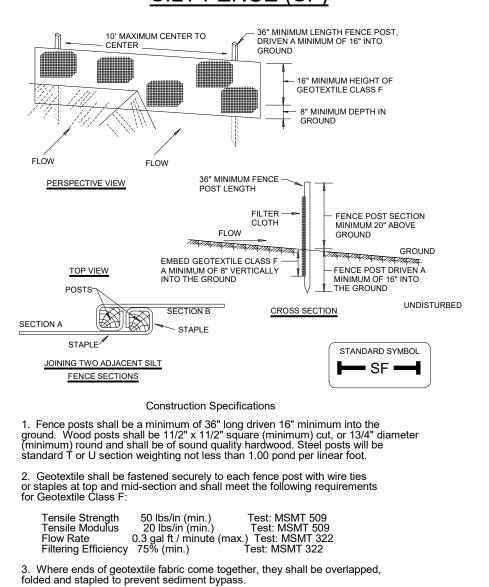
Seed Mixture (For Hardiness Zone 7b) (From Table 25)			Fertilizer Rate (10-20-20)			Lime		
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20	Rate
10.	Tall Fescue Hard Fescue	120 30	3/1 - 5/15 8/15 - 11/15	1"-2"				
11.					90 lb/ac (2.0 lb/ 1000 sf)	175 lb/ac (4 lb/ 1000 sf)	175 lb/ac (4 lb/ 1000 sf)	2 tons/ac (100 lb/ 1000 sf)
12.								











 Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

DETAIL 30 - EROSION CONTROL MATTING

