

STATE OF MARYLAND

**301 WEST PRESTON STREET
BALTIMORE, MARYLAND 21201**

WESTLEY WATENDE OMARI MOORE, GOVERNOR
BROOKE ELIZABETH LIERMAN, COMPTROLLER
DERECK E. DAVIS, TREASURER

**580 TAYLOR AVENUE
ANNAPOLIS, MD 21401**

SEE SHEET GI002 FOR DRAWING INDEX



AB CONSULTANTS, INC
9450 ANNAPOLIS ROAD
LANHAM, MD 20706
301-306-3091

- 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
- 2000 STORM WATER DESIGN MANUAL, MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION (INCLUDING APRIL 15, 2010 REVISIONS)
- BUILDING CODE: IBC - 2015
IEBC - 2015
- FIRE CODE: NFPA - 101 - 2015 (LIFE SAFETY CODE)
NFPA - 1 - 2015 (FIRE CODE)
NFPA - 13 - 2013 (SPRINKLER CODE)
- MECHANICAL CODE: IMC - 2015
- PLUMBING CODE: NATIONAL STANDARD PLUMBING CODE - 2015
- ELECTRIC CODE: NEC - 2014
- ENERGY STANDARD: IECC 2015
- ACCESSIBILITY CODE: MAC (COMAR 05.02.02 & 2010 ADA STANDARDS)
- ENERGY CONSERVATION CODE: IECC - 2015

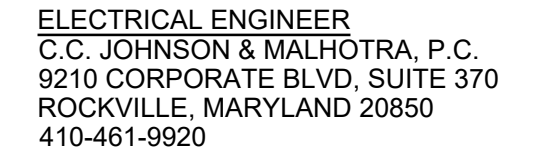
DEPARTMENT OF GENERAL SERVICES APPROVAL	
PROJECT MANAGER	DATE
CHIEF-PROJ. MGT. & DESIGN	DATE
DEPARTMENT OF NATURAL RESOURCES APPROVAL	
PROJECT MANAGER	DATE
DIRECTOR-ENGINEERING & CONSTRUCTION	DATE



RPC011354
RESPONSIBLE PERSONNEL CERTIFICATION NO.

MD REGISTRATION NO. 32561
(P.E.), R.L.S., R.L.A. OR R.A. (CIRCLE ONE)

MICHAEL C. WYCHULIS, P.E.
PRINTED NAME



PROFESSIONAL CERTIFICATION
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APPROVED BY ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND."
LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

TURKEY POINT LIGHTHOUSE ROAD AND PARKING LOT IMPROVEMENT AT ELK NECK STATE PARK

100% CONSTRUCTION DOCUMENTS

NUM	DATE	DESCRIPTION

DATE:	JANUARY 24, 2023
CAD DWG FILE:	G1001-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	AS NOTED

DRAWING TITLE:

TITLE SHEET

GI001

X:\ROCKVILLE\15-1177-004- ELK NECK STATE PARK ACCESS ROAD\05-CAD\G1002-P026192010.DWG, 11/14/2022 10:58 AM, MWYCHULIS

SHEET LIST		
SHEET NUMBER	SHEET NAME	DESCRIPTION
1	GI001	TITLE SHEET
2	GI002	SHEET INDEX AND GENERAL NOTES
3	GI003	OVERALL PLAN
4	VF101	EXISTING CONDITIONS AND DEMOLITION PLAN
5	VF102	EXISTING CONDITIONS AND DEMOLITION PLAN
6	VF103	EXISTING CONDITIONS PLAN
7	VF104	EXISTING CONDITIONS PLAN (ROGUE'S HARBOR)
8	CD401	SITE CLEARING AND DEMOLITION PLAN
9	CD402	SITE CLEARING AND DEMOLITION PLAN
10	CE101	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1
11	CE102	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1
12	CE103	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
13	CE104	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
14	CE105	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
15	CE106	EROSION AND SEDIMENT CONTROL PLAN - ROGUE'S HARBOR INITIAL
16	CE107	EROSION AND SEDIMENT CONTROL PLAN - ROGUE'S HARBOR FINAL
17	CE501	EROSION AND SEDIMENT CONTROL NOTES
18	CE502	EROSION AND SEDIMENT CONTROL NOTES
19	CE503	EROSION AND SEDIMENT CONTROL DETAILS
20	CE504	EROSION AND SEDIMENT CONTROL DETAILS
21	CG101	GRADING AND DRAINAGE PLAN
22	CG102	GRADING AND DRAINAGE PLAN
23	CG201	CULVERT PROFILES
24	CG501	GRADING AND UTILITY DETAILS
25	CS101	SITE IMPROVEMENTS PLAN
33	CS102	SITE IMPROVEMENTS PLAN
27	CS103	SITE IMPROVEMENTS PLAN
28	CS104	SITE IMPROVEMENTS PLAN
29	CS201	ROADWAY PROFILE
30	CS202	ROADWAY PROFILE
31	CS301	ROADWAY SECTIONS
32	CS302	ROADWAY SECTIONS
33	CS401	DETAILED SITE IMPROVEMENTS PLAN
34	CS402	DETAILED SITE IMPROVEMENTS PLAN
35	CS403	DETAILED SITE IMPROVEMENTS PLAN - ROGUE'S HARBOR
36	CS501	SITE DETAILS
37	CS502	SITE DETAILS
38	CS503	TYPICAL SECTIONS
39	CW100	STORMWATER MANAGEMENT PLAN
40	CW101	STORMWATER MANAGEMENT PLAN - FACILITY-1
41	CW102	STORMWATER MANAGEMENT PLAN - FACILITY-1
42	CW103	STORMWATER MANAGEMENT PLAN - FACILITY-2
43	CW104	STORMWATER MANAGEMENT PLAN - FACILITY-2
44	CW501	STORMWATER MANAGEMENT NOTES AND DETAILS
45	CW502	STORMWATER MANAGEMENT SPECIFICATIONS
46	LN100	NATURAL RESOURCES INVENTORY
47	LN101	NATURAL RESOURCES INVENTORY
48	LN102	NATURAL RESOURCES INVENTORY
49	LN103	NATURAL RESOURCES INVENTORY
50	LN104	NATURAL RESOURCES INVENTORY
51	LN105	NATURAL RESOURCES INVENTORY
52	LN106	NATURAL RESOURCES INVENTORY
53	LN107	NATURAL RESOURCES INVENTORY
54	LN108	NATURAL RESOURCES INVENTORY
55	LS100	MITIGATION PLANTING PLAN
56	LS101	MITIGATION PLANTING PLAN
57	LS102	MITIGATION PLANTING PLAN
58	LS103	MITIGATION PLANTING PLAN
59	LS104	MITIGATION PLANTING PLAN
60	LS105	MITIGATION PLANTING PLAN
61	LS106	MITIGATION PLANTING PLAN
62	LS107	MITIGATION PLANTING PLAN - ROGUE'S HARBOR
63	LS501	MITIGATION DETAILS & NOTES
64	LS502	MITIGATION DETAILS & NOTES
65	LS701	SOILS MITIGATION PLAN
66	LS702	SOILS MITIGATION PLAN
67	LS703	SOILS MITIGATION PLAN
68	LS704	SOILS MITIGATION PLAN
69	LS705	SOILS MITIGATION PLAN
70	LS706	SOILS MITIGATION PLAN
71	LS707	SOILS MITIGATION DETAILS
72	E-001	ELECTRICAL LEGEND AND ABBREVIATIONS
73	E-101	ELECTRICAL POWER PLAN
74	E-102	ELECTRICAL RISER DIAGRAM

TRAVERSE DATA: (SEE SHEETS VF101, VF102, VF103)				
NO	NORTHING	EASTING	ELEV	DESCRIPTION
50	651565.7535	1592444.2795	57.85	MAG--NAIL
51	653027.4236	1592505.0764	76.63	MAG--NAIL
52	653122.5756	1592484.2232	82.59	MAG--NAIL
53	653233.8620	1592440.4384	86.78	MAG--NAIL
54	653314.8526	1592246.4428	92.24	MAG--NAIL
55	654096.7817	1592679.2893	90.74	MAG--NAIL
56	654228.7499	1593010.8624	59.03	MAG--NAIL
57	654412.3399	1593177.5366	36.30	MAG--NAIL
58	654611.2367	1593205.7247	38.93	MAG--NAIL
100	650883.2357	1592277.1815	92.13	MONUMENT
101	651013.0665	1592343.1614	92.88	REBAR & CAP
102	651761.5103	1592552.9737	77.74	REBAR & CAP
103	651937.4144	1592605.9795	81.43	REBAR & CAP
104	652896.9028	1592572.6707	64.94	REBAR & CAP
105	653318.7862	1592311.0388	93.68	REBAR & CAP
106	653438.8237	1592362.6303	97.31	REBAR & CAP
107	653524.6031	1592490.3758	99.91	REBAR & CAP
108	653615.8928	1592643.1813	97.56	REBAR & CAP
109	653702.2655	1592764.3816	95.77	REBAR & CAP
110	653814.1519	1592788.3961	93.72	REBAR & CAP
111	653973.9224	1592864.5037	81.71	REBAR & CAP
112	654102.3950	1592825.4272	77.08	REBAR & CAP
113	654221.4121	1592873.4182	68.84	REBAR & CAP
114	654354.6854	1592914.7422	68.16	REBAR & CAP
115	654473.6638	1593013.4624	58.78	REBAR & CAP
116	654616.9840	1593033.5519	50.75	REBAR & CAP
117	654718.7316	1593151.7101	49.82	REBAR & CAP
118	654809.3414	1593367.4541	77.19	MAG--NAIL

BENCHMARK DATA: (SEE SHEETS VF101, VF102, VF103)		
NO	ELEV	DESCRIPTION
500	95.35	HEART ON FLAG POLE CONCRETE BASE
501	92.66	SOUTHWEST CORNER OF FIRE PIT WALL
502	60.60	EAST CORNER BOTTOM STEP TRAILHEAD SIGN
503	48.78	MAG--NAIL IN GATE POST

GENERAL NOTES:

- ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE INVITATION FOR BID MANUAL, LATEST STANDARDS AND UPDATES OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION, LATEST EDITION OF STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND INCIDENTAL STRUCTURES AND MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION, LATEST EDITION OF STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS. EROSION AND SEDIMENT CONTROL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF THE ENVIRONMENT 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- THE EXISTING CONDITIONS FOR THIS PROJECT HAVE BEEN FIELD SURVEYED BY A. MORTON THOMAS AND ASSOCIATES, OCTOBER 2020.
- BEARINGS AND COORDINATES AS SHOWN HEREON ARE BASED ON:
HORIZONTAL DATUM: MARYLAND STATE PLANE NAD 83/2011 (BASED UPON RTK OBSERVATIONS)
VERTICAL DATUM: NAVD 88 GEOID (BASED UPON RTK OBSERVATIONS)
- THE FEMA FIRM PANEL NUMBER IS 24015C0209E, DATED 5/4/2015.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER PRIOR TO THE START OF ANY WORK.
- THE LOCATION OF ALL UTILITIES SHOWN HEREON IS BASED ON FIELD SURVEY DATA AND RECORD DRAWING INFORMATION. THE UTILITY INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE GENERAL LOCATIONS SHOWN ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING ANY OPERATIONS WHICH COULD DAMAGE OR INTERRUPT THESE FACILITIES IN AREAS WHERE THE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. OMISSION AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR ENGAGED IN EXCAVATION AT THE SITE. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL UTILITY INFORMATION, OMISSIONS AND ADDITIONS FOUND BY ANY CONTRACTOR.
- IT SHALL BE THE DUTY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS GIVEN ON THE DRAWINGS AND REPORT TO THE OWNER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL SCHEDULE ALL DEMOLITION ACTIVITIES AND REQUIRED UTILITY RELOCATION TO MINIMIZE SHUTDOWNS AND DISRUPTIONS. UNLESS OTHERWISE NOTED, ALL UTILITIES MUST REMAIN IN SERVICE THROUGHOUT THE DURATION OF THE PROJECT AND PROTECTED AND SUPPORTED AS REQUIRED. NOTIFY OWNER TWO WEEKS IN ADVANCE IF TEMPORARY SHUTDOWN/DISRUPTION OF UTILITIES IS REQUIRED.
- THE CONTRACTOR SHALL CONDUCT TEST PITS AS REQUIRED TO ESTABLISH THE CONDITION AND ELEVATION OF ALL UTILITY AND STRUCTURES PRIOR TO FABRICATING ANY PIECES OR ORDERING ANY MATERIALS FOR THE UTILITY SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY INVERTS AND CLEARANCES FROM NEW WORK PRIOR TO START OF ANY WORK.
- BASED UPON THE RESULTS OF THE TEST PITS, THE CONTRACTOR SHALL SUBMIT SKETCHES TO THE ENGINEER SHOWING THE RECOMMENDATION REVISING THE DESIGN INVERT AND TOP ELEVATIONS AS REQUIRED TO AVOID ANY CONFLICTS WITH EXISTING UTILITY LINES AND OTHER FEATURES.
- OMISSION AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR ENGAGED IN EXCAVATION AT THE SITE. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL UTILITY INFORMATION, OMISSIONS AND ADDITIONS FOUND BY ANY CONTRACTOR. DAMAGE TO EXISTING UTILITIES SHALL BE FIXED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE
- THE CONTRACTOR SHALL STAKE-OUT ALL BASELINES OF CONSTRUCTION AND THE LOCATION OF ALL NEW CONSTRUCTION, AND VERIFY ALL SETBACKS, OFFSETS, AND CLEARANCES PRIOR TO START OF ANY WORK.
- ALL DISTURBED AREAS NOT STABILIZED WITH STRUCTURES, PAVING, SOD OR PLANTINGS SHALL BE STABILIZED WITH FOUR INCHES OF TOPSOIL, SEED, MULCH, AND WATER TO ESTABLISH AN ADEQUATE GROWTH OF GRASS.
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
- THE TOPS OF ALL FRAMES, GRATES, AND COVERS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONTRACT AND LIMITS DISTURBANCE SHALL BE ADJUSTED TO THE NEW GRADES.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL PROVIDE ALL NEEDED LABOR, EQUIPMENT, AND MATERIALS TO PROTECT THE PROJECT SITE FROM PONDING WATER AND FLOODING.
- NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERSEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS.
- EXISTING UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS, ETC. ARE TO REMAIN IN PLACE AND IN OPERATION, UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT. EXISTING UTILITIES AND LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED, VERIFY IN THE FIELD.
- SAVE AND PROTECT EXISTING TREES AND SHRUBS, EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL. REFER TO DEMOLITION PLANS FOR TREE PROTECTION FENCING. REFER TO TREE PROTECTION SPECIFICATIONS FOR REQUIREMENTS WHEN WORKING INSIDE OR ADJACENT TO TREE PROTECTION FENCING.
- PROVIDE POSITIVE DRAINAGE ON OR NEAR STOCKPILE AREAS. MAINTAIN NATURAL DRAINAGE WAYS.
- REMOVE DEBRIS, RUBBLE, AND OTHER WASTE MATERIALS FROM THE SITE AND DISPOSE OF LEGALLY OFF OWNER'S PROPERTY.
- RESTORE ALL AREAS DAMAGED DURING CONSTRUCTION.

AMT

A. MORTON THOMAS AND ASSOCIATES, INC.
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(301) 881-2545 FAX: (301) 881-0814
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CONSULTANTS

GEOTECHNICAL ENGINEERING
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LANHAM, MARYLAND 20706
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ELECTRICAL ENGINEER
C.C. JOHNSON & MALHOTRA, P.C.
9210 CORPORATE BLVD, SUITE 370
ROCKVILLE, MARYLAND 20850
410-461-9920

REGISTRATION STAMP

PROFESSIONAL CERTIFICATION
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LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION
DATE: NOVEMBER 14, 2022		
CAD DWG FILE: G1002-P026192010.DWG		
DRAWN BY: NS		
CHECKED BY: MCW		
SCALE:		

DGS PROJECT NO: P-026-192-010

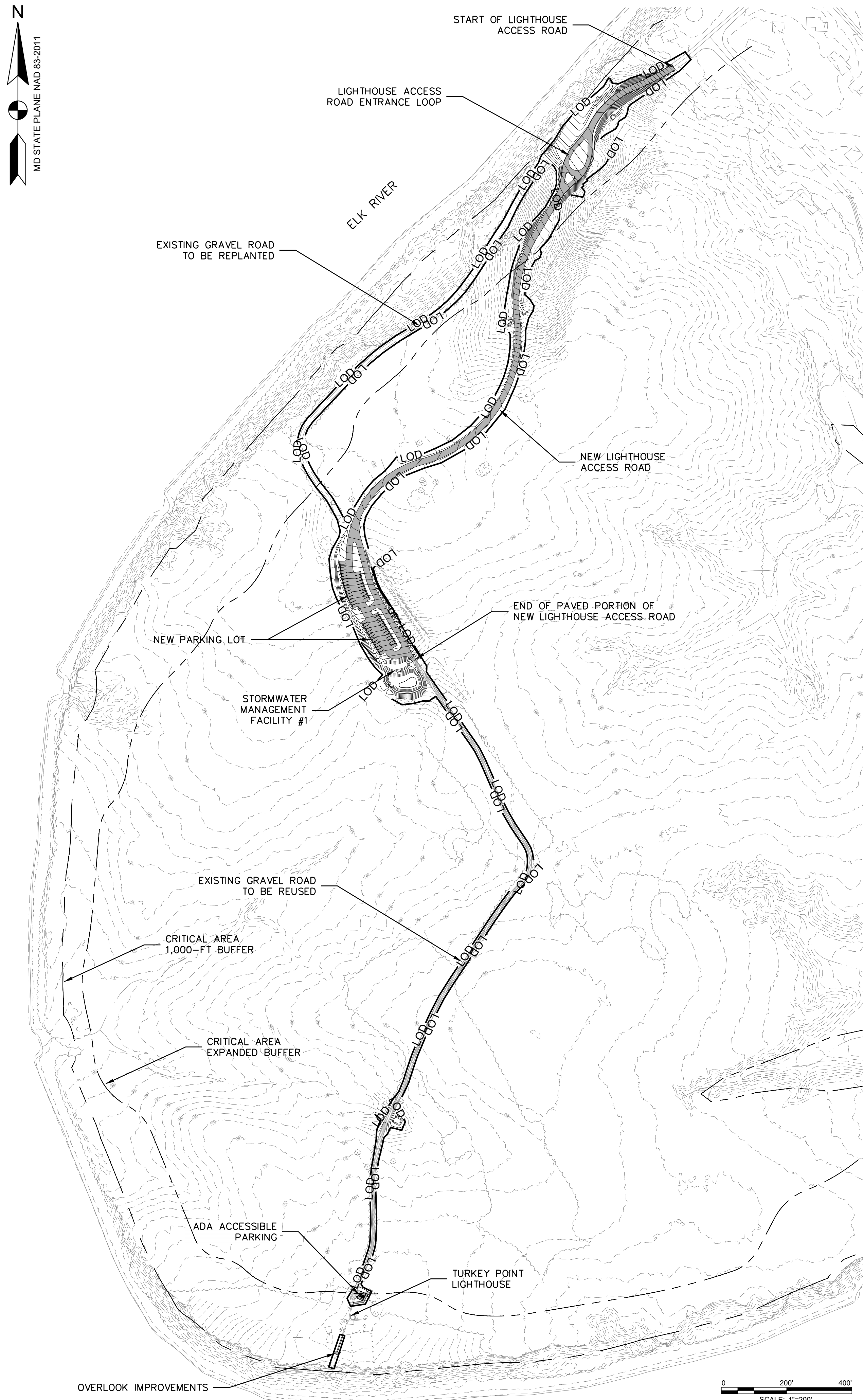
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SHEET INDEX AND
GENERAL NOTES

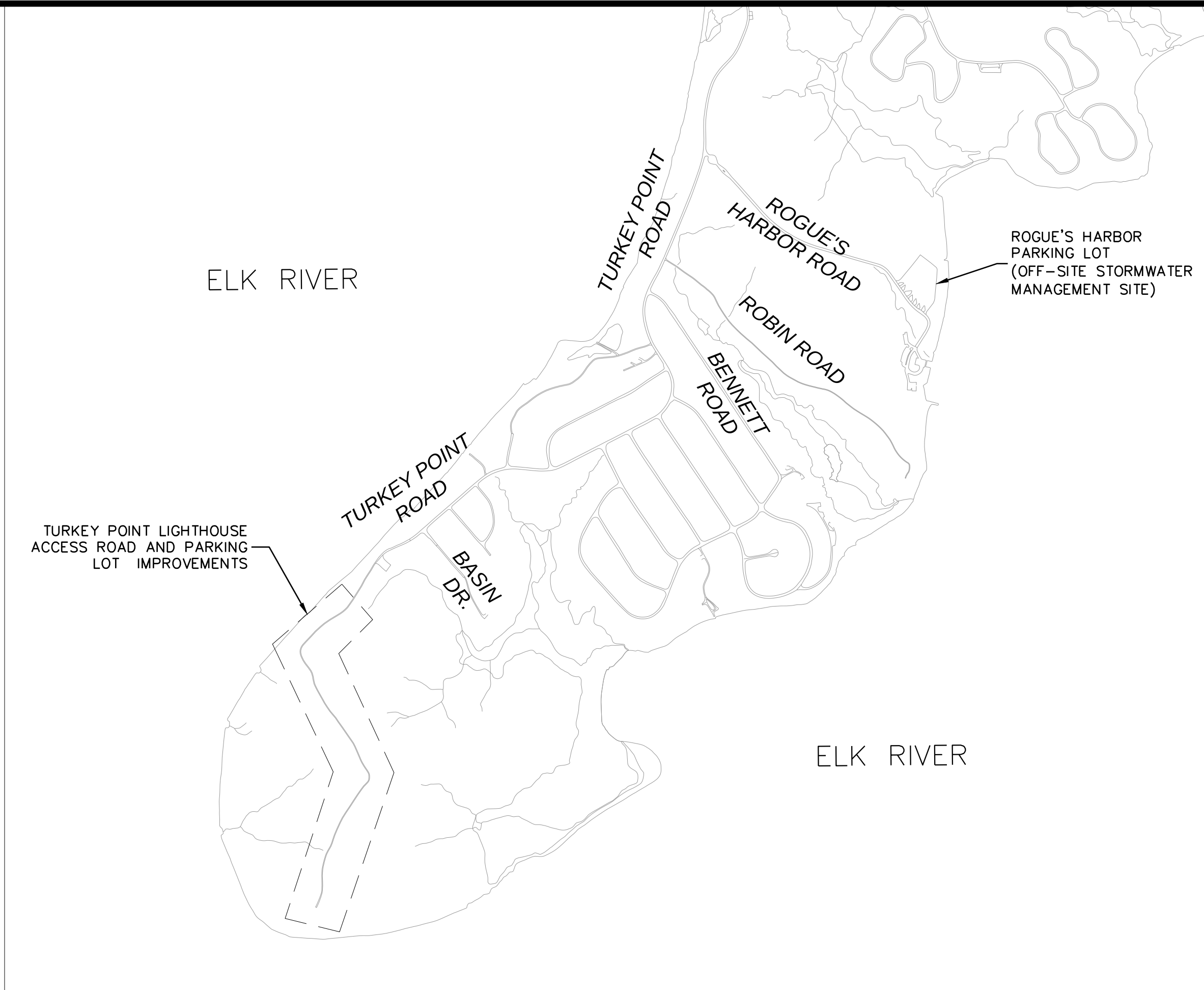
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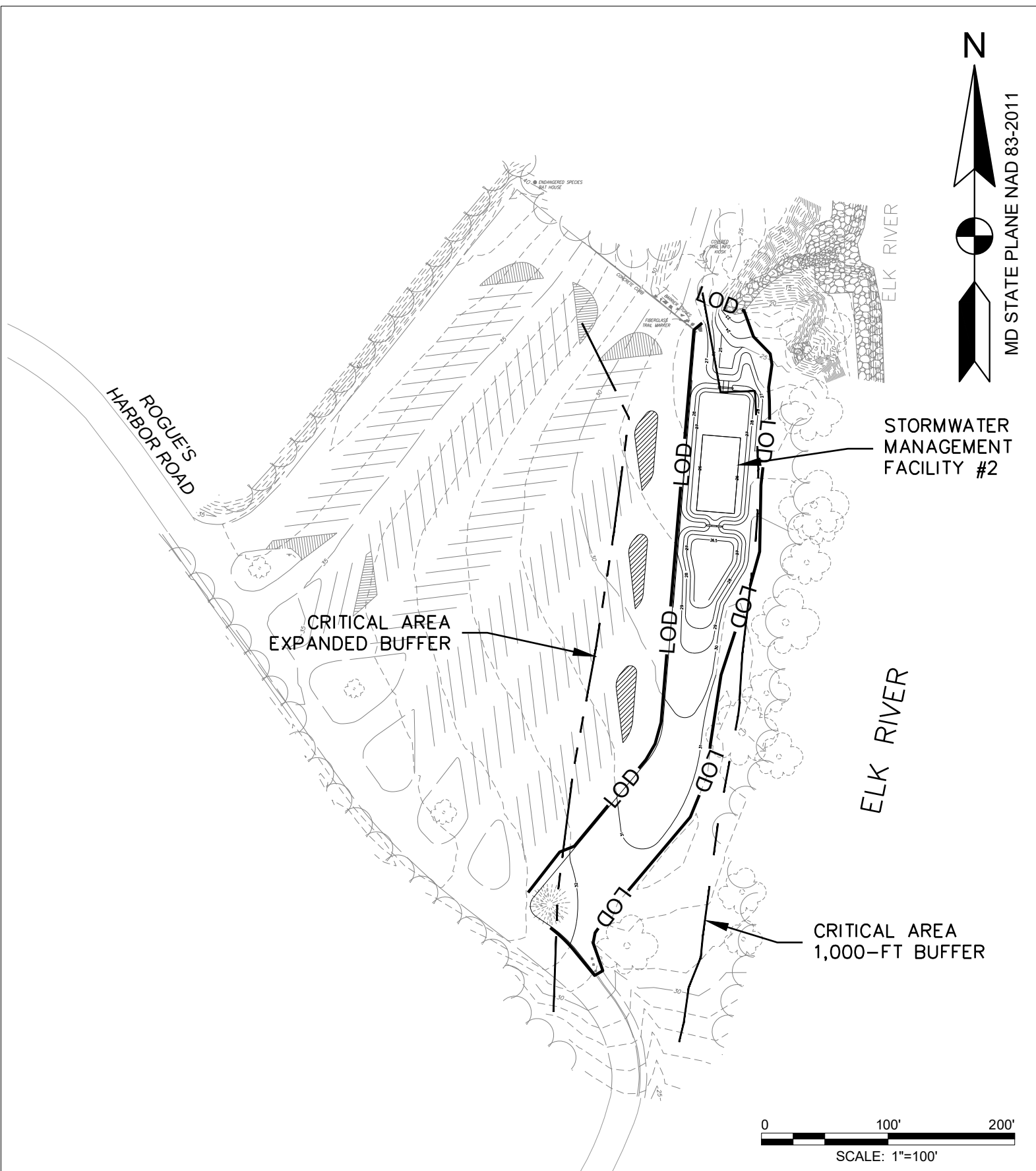
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TURKEY POINT LIGHTHOUSE ROAD AND PARKING LOT
SCALE: 1"=200'



LOCATION MAP
SCALE: 1"=1000'



ROGUE'S HARBOR PARKING LOT (OFF-SITE STORMWATER MANAGEMENT SITE)
SCALE: 1"=100'

GENERAL NOTES

- HORIZONTAL DATUM: MARYLAND STATE PLANE NAD 83/2011 (BASED UPON RTK OBSERVATIONS)
VERTICAL DATUM: NAVD 88 GEOID 12A(BASED UPON RTK OBSERVATIONS).
- NO PROPERTY OR BOUNDARY SURVEY PROCEDURES WERE PERFORMED AS PART OF THIS SURVEY.

AMT

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PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION
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DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	G1003-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	AS SHOWN

DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

OVERALL PLAN

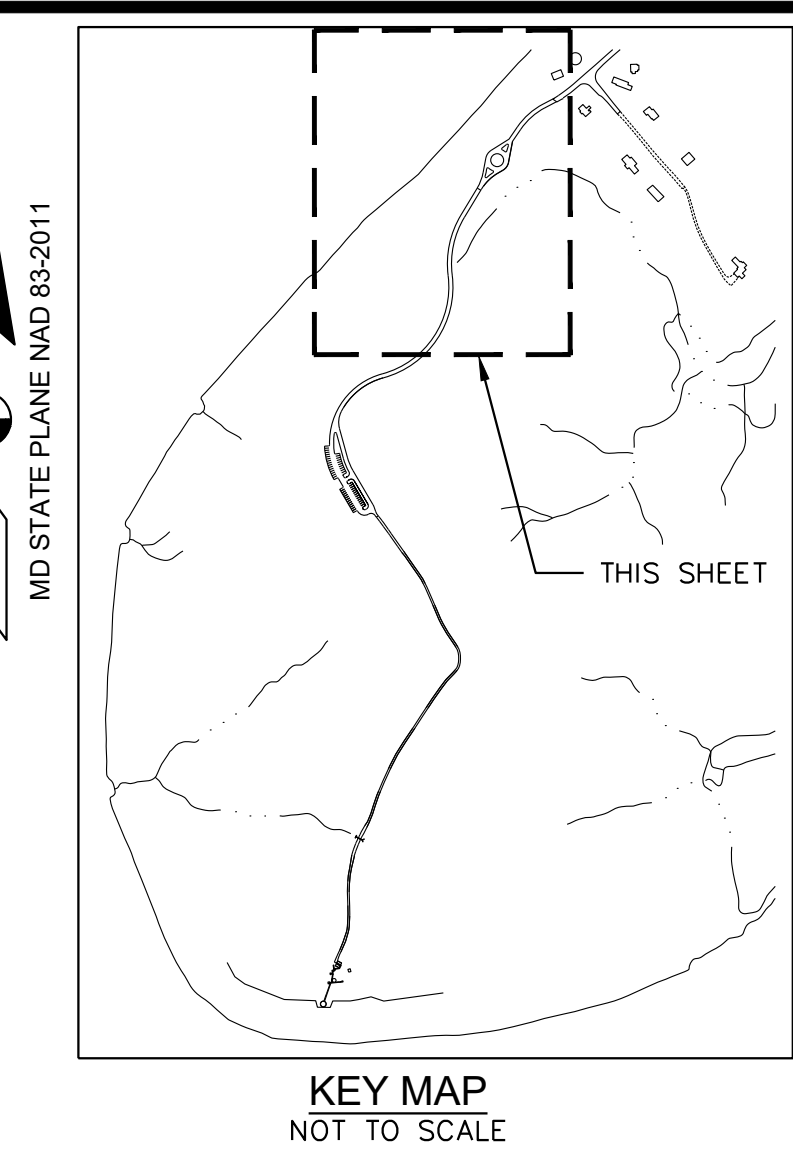
G1003

SHEET 3 OF 74

	SINGLE POST SIGN
	POST
	FLAG
	LANDSCAPE STONES (SIZE VARIES)
	TRAVERSE
	BENCHMARK
	WIRE FENCE
	WOOD FENCE
	WOOD LINE
	FINISH FLOOR ELEVATION
	TREE SURVEY NUMBER
	BUILDING
	LIMIT OF DISTURBANCE
	CRITICAL AREA 100-FT BUFFER
	CRITICAL AREA EXPANDED BUFFER
	SOILS

	EXISTING ASPHALT PAVEMENT TO BE REMOVED
	EXISTING GRAVEL PAVEMENT TO BE REMOVED
	FOREST TO BE CLEARED

TOTAL PROPOSED FOREST CLEARING = 109,961 SF (2.52 AC.)



1. HORIZONTAL DATUM: MARYLAND STATE PLANE, NAD 83/2011 (BASED UPON RTK OBSERVATIONS).
VERTICAL DATUM: NAVD 88 GEOID 12A(BASED UPON RTK OBSERVATIONS).
2. NO PROPERTY OR BOUNDARY SURVEY PROCEDURES WERE PERFORMED AS PART OF THIS SURVEY.
3. ONLY INDIVIDUAL TREES OF 24" IN DIAMETER WERE SURVEYED. THIS AREA INCLUDES A LARGE NUMBER OF SMALLER TREES AND BRUSH TO BE CLEARED.

CONSULTANTS

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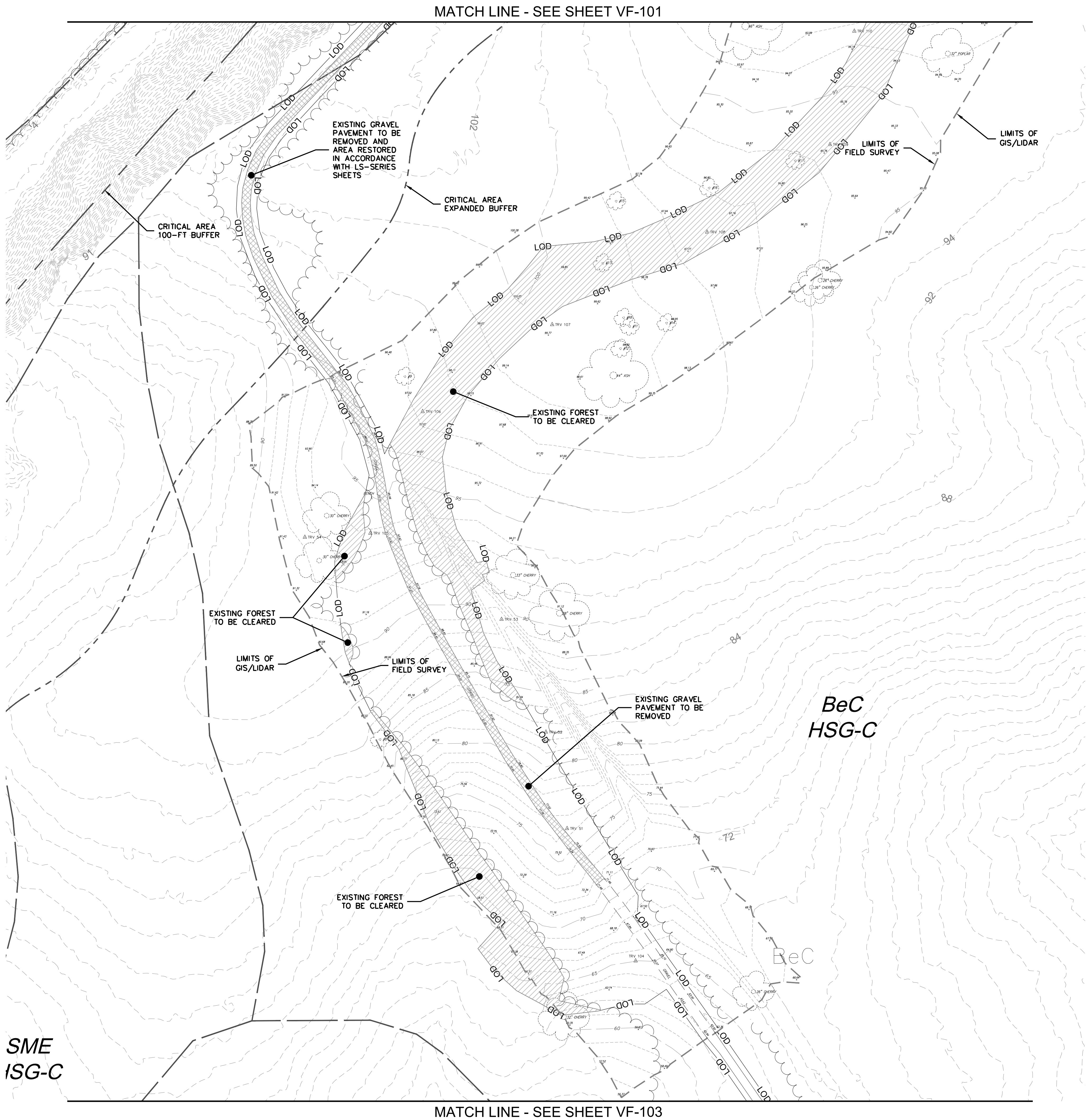
TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

NUM	DATE	DESCRIPTION
DATE:	NOVEMBER 14, 2022	
CAD DWG FILE:	VF101-P026192010.DWG	
DRAWN BY:	NS	
CHECKED BY:	MCW	
SCALE:	1"=50'	

EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET 4 OF 74

X:\ROCKVILLE\15-1177-004 - ELK NECK STATE PARK ACCESS ROAD\05-CAD\VF-102-P026192010.DWG, 11/14/2022 1:07 PM, MWYCHULIS



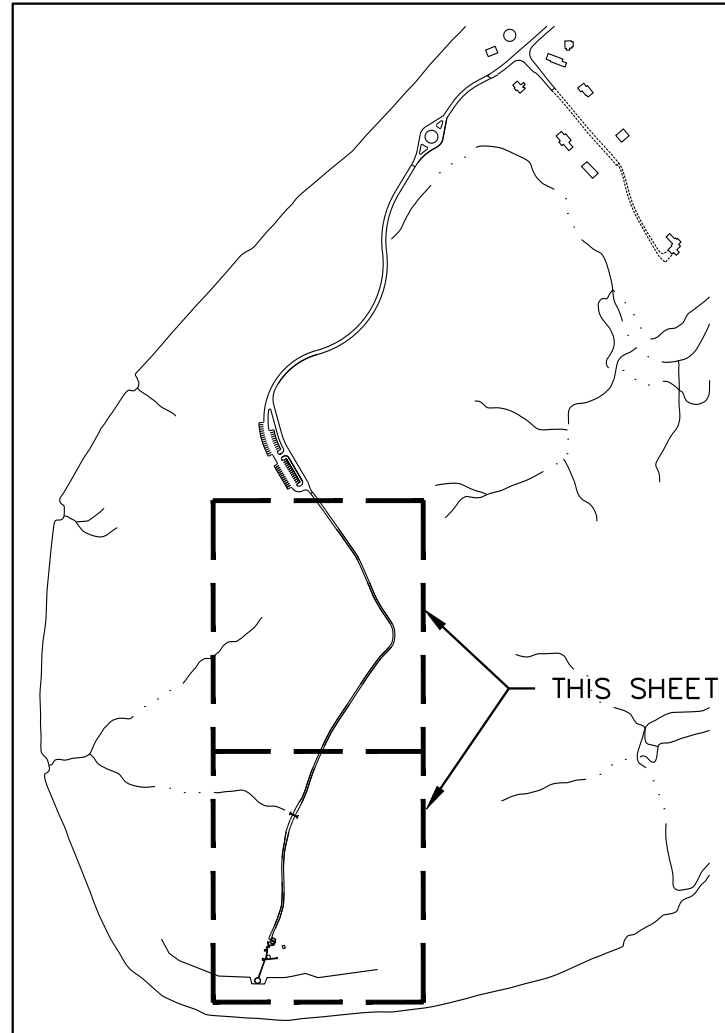
The map displays a topographic view of the BeB HSG-C area. A road, labeled 'Lob' and '001', runs diagonally from the bottom left towards the top right. The terrain is characterized by numerous contour lines, with elevations ranging from 50 to 88. A proposed development area is outlined by a dashed line, showing a rectangular plot with a smaller rectangular area inside. The text 'BeB HSG-C' is prominently displayed in the lower right quadrant of the map.

The map displays a topographic area with contour lines indicating elevation. Key features include:

- EXISTING FOREST TO BE CLEARED:** A shaded area at the top of the map.
- SME HSG-C:** A large area on the left side of the map.
- BeB HSG-C:** A large area on the right side of the map.
- SEE SHEET CD-401 FOR DETAILED CLEARING AND DEMOLITION IN THIS AREA:** A rectangular box in the center of the map.
- CRITICAL AREA EXPANDED BUFFER:** A dashed line boundary within the central box.
- CRITICAL AREA 100-FT BUFFER:** A dashed line boundary at the bottom of the central box.
- Other features:** A 1-STORY BLOCK, BENCH, FENCED AREA, and various other structures and boundaries are shown within the central box.

The map displays a topographic area with contour lines indicating elevation. Key features include:

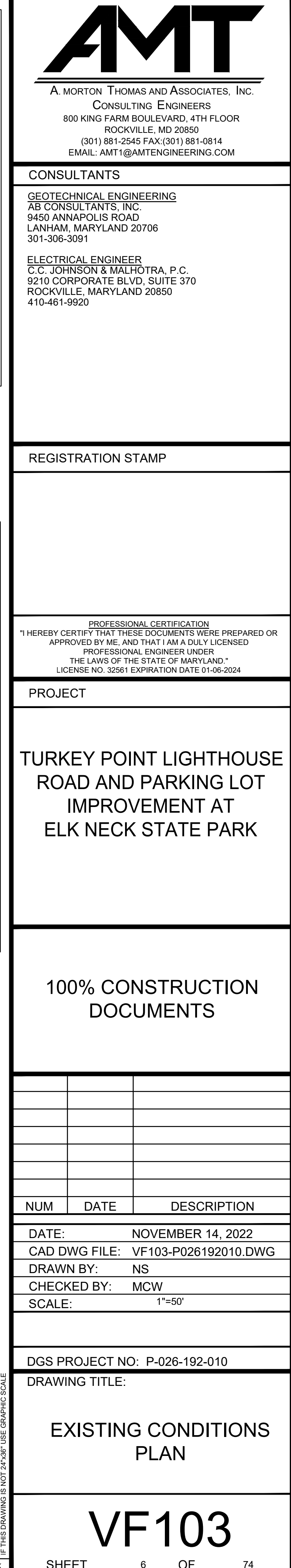
- EXISTING FOREST TO BE CLEARED:** A shaded area at the top of the map.
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- CRITICAL AREA 100-FT BUFFER:** A dashed line boundary at the bottom of the central box.
- Other features:** A 1-STORY BLOCK, BENCH, FENCED AREA, and various other structures and boundaries are shown within the central box.



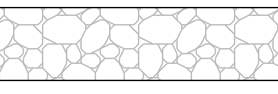
TOPOGRAPHIC SURVEY LEGEND

	<i>SINGLE POST SIGN</i>
	<i>POST</i>
	<i>FLAG</i>
	<i>LANDSCAPE STONES (SIZE VARIES)</i>
	<i>TRAVERSE</i>
	<i>BENCHMARK</i>
	<i>WIRE FENCE</i>
	<i>WOOD FENCE</i>
	<i>WOOD LINE</i>
	<i>FINISH FLOOR ELEVATION</i>
	<i>TREE SURVEY NUMBER</i>
	<i>BUILDING</i>
	<i>LIMIT OF DISTURBANCE</i>
	<i>CRITICAL AREA 100-FT BUFFER</i>
	<i>CRITICAL AREA EXPANDED BUFFER</i>
	<i>SOILS</i>
	<i>FOREST TO BE CLEARED</i>

1. HORIZONTAL DATUM: MARYLAND STATE PLANE NAD 83/2011 (BASED UPON RTK OBSERVATIONS).
VERTICAL DATUM: NAVD 88 GEOID 12A(BASED UPON RTK OBSERVATIONS).
2. NO PROPERTY OR BOUNDARY SURVEY PROCEDURES WERE PERFORMED AS PART OF THIS SURVEY.
3. ONLY INDIVIDUAL TREES OF 24" IN DIAMETER WERE SURVEYED, THIS AREA INCLUDES A LARGE NUMBER OF SMALLER TREES AND BRUSH TO BE CLEARED.



X:\ROCKVILLE\15-1177-004- ELK NECK STATE PARK ACCESS ROAD\05-CAD\VF104-P026192010.DWG, 11/14/2022 10:59 AM, MNVCHULIS

TOPOGRAPHIC SURVEY LEGEND	
	WOOD BOLLARD
	SINGLE POST SIGN
	TRAVERSE
	BENCHMARK
	CURB
	GUARD RAIL
	WOODLINE
	GABION
	RIP-RAP
	CRITICAL AREA 100-FT BUFFER
	CRITICAL AREA EXPANDED BUFFER
	SOILS

TRAVERSE DATA:				
NO	NORTHING	EASTING	ELEV	DESCRIPTION
100	657609.5701	1598591.6582	32.61	MAG-NAIL
101	657382.5950	1598411.7999	34.01	MAG-NAIL
102	657280.8556	1598686.4894	32.19	REBAR & CAP
103	657593.9725	1598750.4586	23.81	REBAR & CAP

BENCHMARK DATA:		
NO	ELEV	DESCRIPTION
500	34.85	SO-CUT ON CONCRETE CURB
501	32.11	MAG-NAIL IN WOOD BOLLARD



GENERAL NOTES

- HORIZONTAL DATUM: MARYLAND STATE PLANE NAD 83/2011
VERTICAL DATUM: NAVD 88
BASED ON RTK GPS OBSERVATIONS (GEOID 12B)
UNITS OF MEASURE: U.S. SURVEY FEET
- NO UNDERGROUND UTILITY DESIGNATION PROCEDURES WERE PERFORMED. UTILITIES SHOWN ARE FROM VISIBLE SURFACE EVIDENCE AND AVAILABLE RECORDS.
- NO PROPERTY OR BOUNDARY SURVEY PROCEDURES WERE PERFORMED AS PART OF THIS SURVEY.

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ELECTRICAL ENGINEER

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410-461-9920

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LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION
-----	------	-------------

DATE: NOVEMBER 14, 2022
CAD DWG FILE: VF104-P026192010.DWG
DRAWN BY: NS
CHECKED BY: MCW
SCALE: 1"=30'

DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

EXISTING CONDITIONS
PLAN (ROGUE'S
HARBOR)

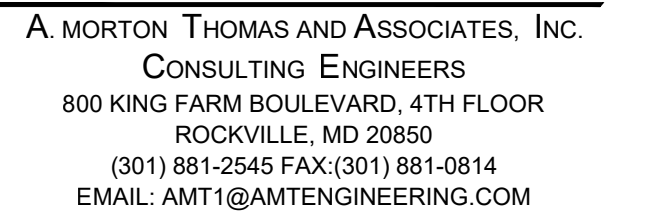
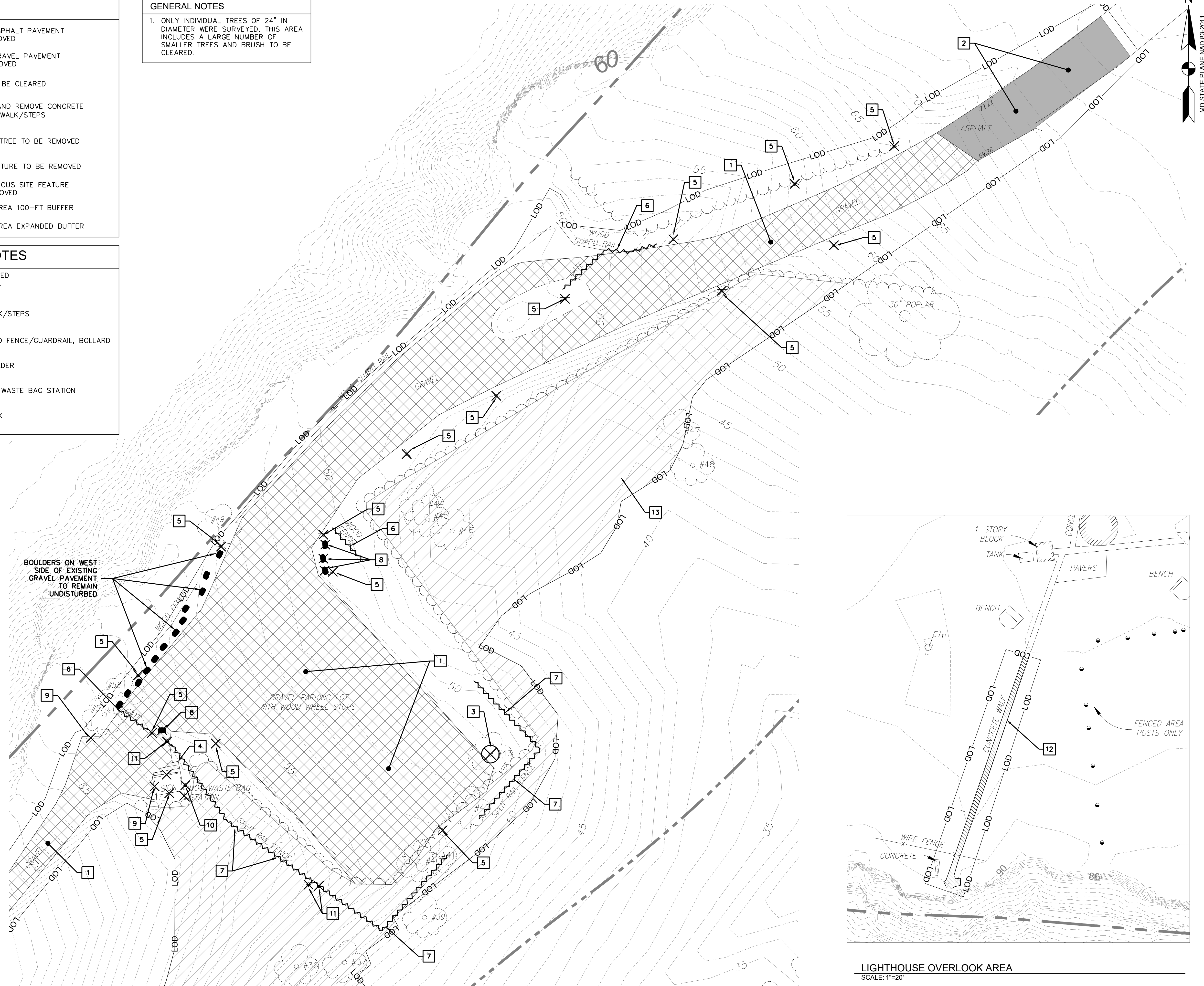
VF104

SHEET 7 OF 74

	EXISTING ASPHALT PAVEMENT TO BE REMOVED
	EXISTING GRAVEL PAVEMENT TO BE REMOVED
	FOREST TO BE CLEARED
	DEMOLISH AND REMOVE CONCRETE PAVEMENT/WALK/STEPS
	INDIVIDUAL TREE TO BE REMOVED
	LINEAR FEATURE TO BE REMOVED
	MISCELLANEOUS SITE FEATURE TO BE REMOVED
	CRITICAL AREA 100-FT BUFFER
	CRITICAL AREA EXPANDED BUFFER

1. ONLY INDIVIDUAL TREES OF 24" IN DIAMETER WERE SURVEYED, THIS AREA INCLUDES A LARGE NUMBER OF SMALLER TREES AND BRUSH TO BE CLEARED.

1. EXISTING GRAVEL ROAD TO BE REMOVED
2. REMOVE EXISTING ASPHALT PAVEMENT
3. REMOVE EXISTING TREE
4. REMOVE EXISTING CONCRETE SIDEWALK/STEPS
5. REMOVE/RELOCATE EXISTING SIGN
6. REMOVE AND SALVAGE EXISTING WOOD FENCE/GUARDRAIL, BOLLARD
7. REMOVE EXISTING SPLIT RAIL FENCE
8. REMOVE AND SALVAGE EXISTING BOULDER
9. REMOVE EXISTING TIMBER WALL
10. REMOVE AND SALVAGE EXISTING DOG WASTE BAG STATION
11. REMOVE EXISTING BOLLARDS
12. REMOVE EXISTING CONCRETE SIDEWALK
13. EXISTING FOREST TO BE CLEARED



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LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

NUM	DATE	DESCRIPTION

DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	CD401-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=20'

DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

SITE CLEARING AND DEMOLITION PLAN

CD401

X:\ROCKVILLE\15-1177-004- ELK NECK STATE PARK ACCESS ROAD\05-CAD\CD402-P026192010.DWG, 11/14/2022 11:00 AM, MWYCHULIS

DEMOLITION LEGEND

EXISTING ASPHALT PAVEMENT
TO BE REMOVED

EXISTING CONCRETE PAVEMENT
TO BE REMOVED

EXISTING RIP-RAP TO BE REMOVED
AND SALVAGED

LINEAR FEATURE TO BE REMOVED

X

MISCELLANEOUS SITE FEATURE
TO BE REMOVED

CRITICAL AREA 100-FT BUFFER

CRITICAL AREA EXPANDED BUFFER

DEMOLITION KEYNOTES

1. REMOVE EXISTING ASPHALT PAVEMENT

2. REMOVE EXISTING ASPHALT CURB

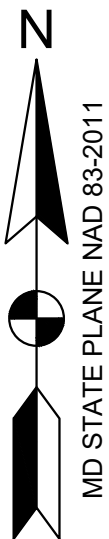
3. REMOVE EXISTING CONCRETE PAVEMENT

4. REMOVE/RELOCATE EXISTING SIGN

5. REMOVE AND SALVAGE EXISTING RIP-RAP

6. REMOVE EXISTING WOODEN POSTS

7. REMOVE EXISTING PAVEMENT MARKINGS



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LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION
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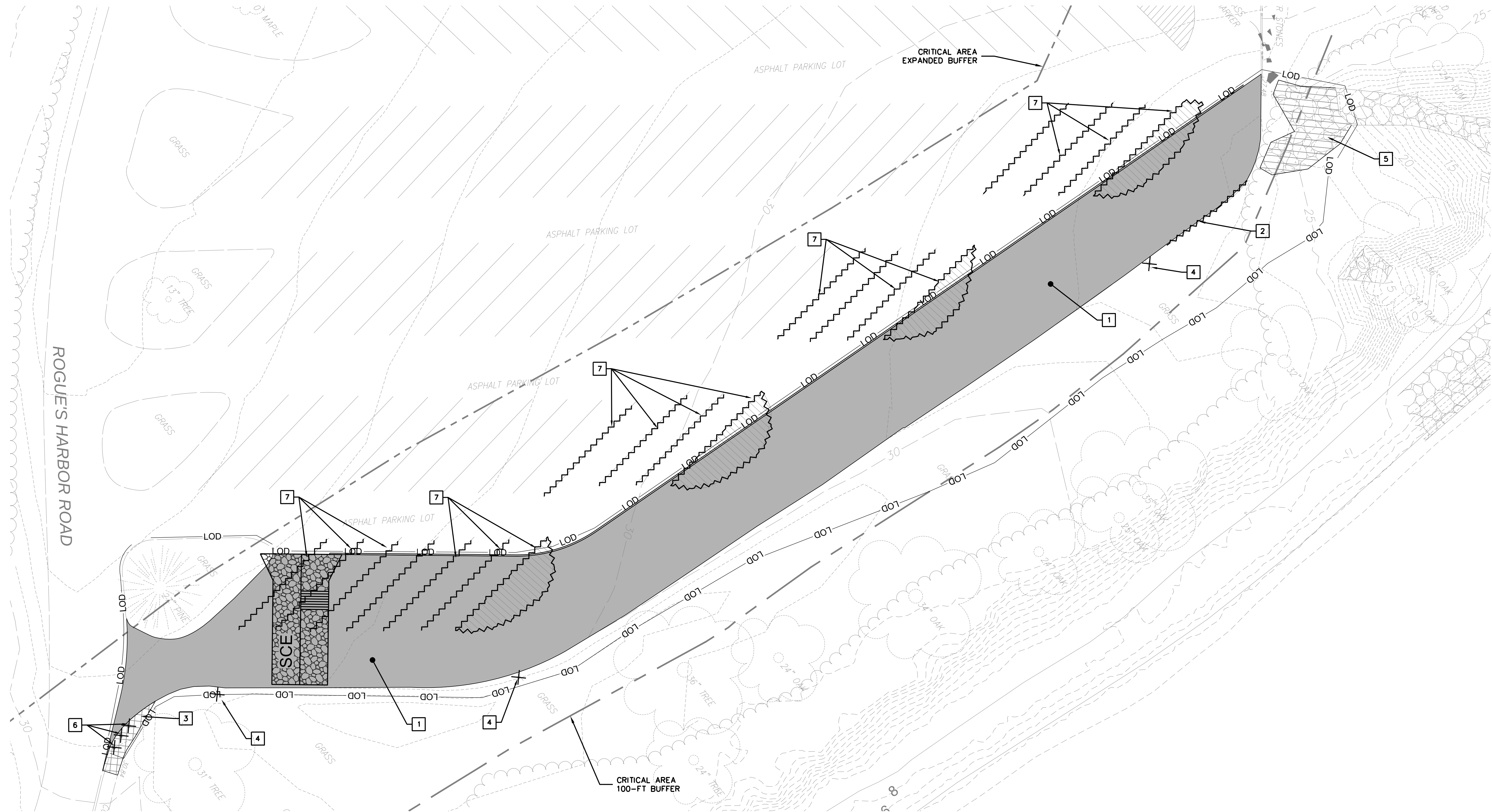
DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	CD402-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=20'

DGS PROJECT NO: P-026-192-010
DRAWING TITLE:

SITE CLEARING AND
DEMOLITION PLAN

CD402

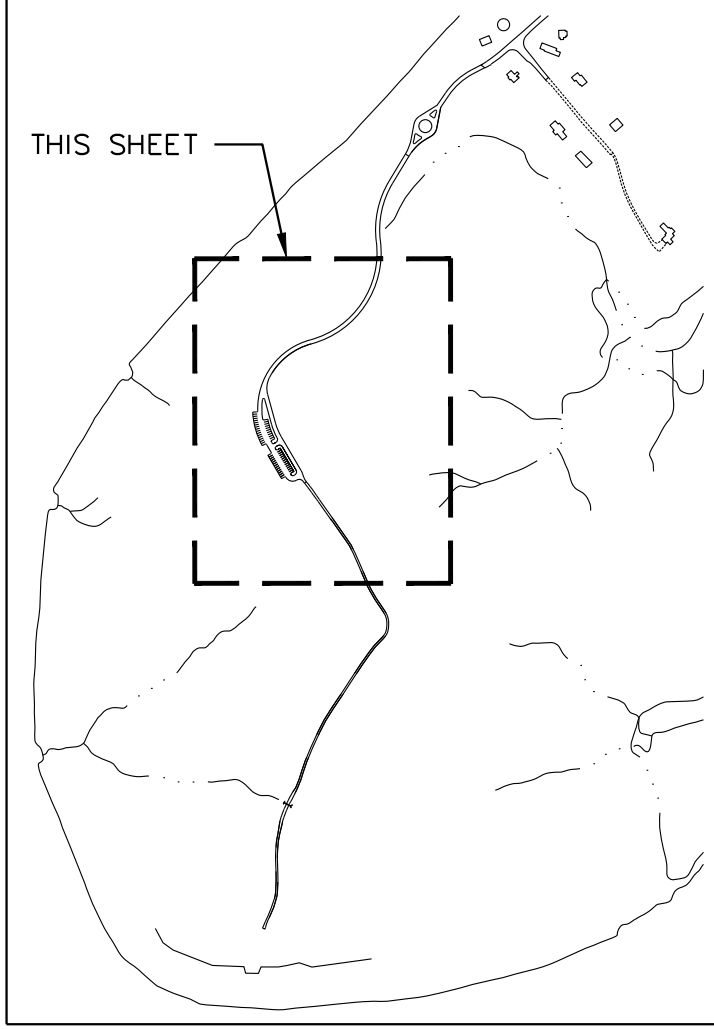
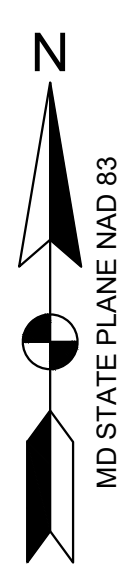
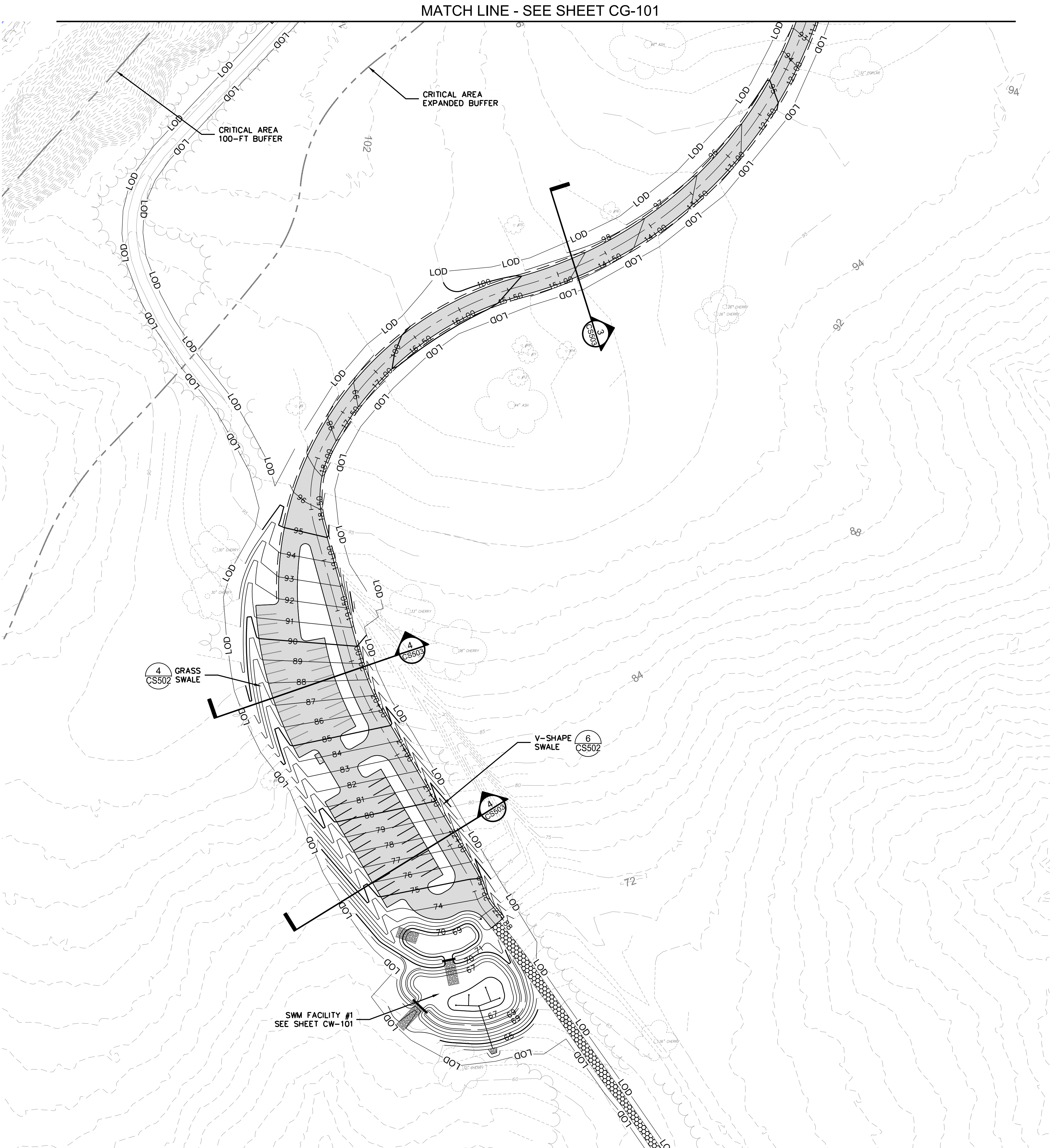
SHEET 9 OF 74



0 10' 20' 40'
SCALE: 1"=20'

IF THIS DRAWING IS NOT 24"X36" USE GRAPHIC SCALE

X:\ROCKVILLE\15-1177-004- ELK NECK STATE PARK ACCESS ROAD\05-CAD\CG102-P026192010.DWG, 11/14/2022 11:03 AM, MWYCHULIS



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LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION
-----	------	-------------

DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	CG102-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=50'

DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

GRADING AND DRAINAGE
PLAN

CG102

SHEET 22 OF 74

DGS No. P-026-192-010

MDE (SWM + E&S) No. 21-SF-0132

FAP #: STP-CXXXXXX

STATE PROJECT #: MD-XX-XX

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TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

NUM	DATE	DESCRIPTION
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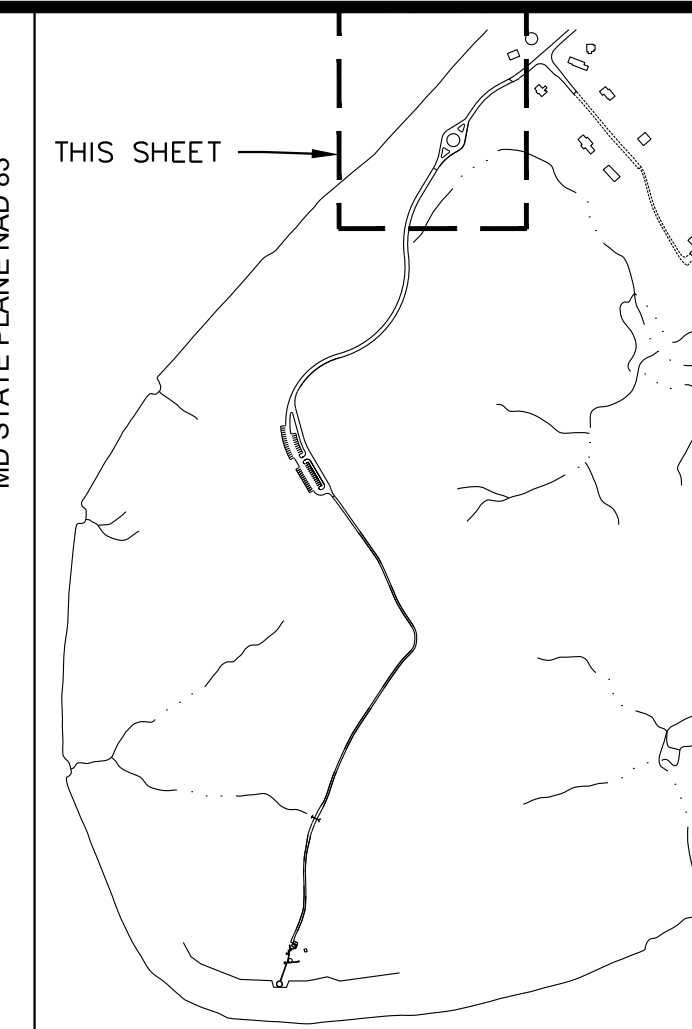
DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	CS101-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=30'

DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

CS101

SHEET 25 OF 74



KEY MAP
NOT TO SCALE

	NEW ASPHALT PAVEMENT, SEE DET. 2/CS-501
	NEW WOODEN GUARDRAIL, SEE DET. 1/CS-502
	EDGE OF SHOULDER, SEE TYP. SECTIONS, SHEET CS-503

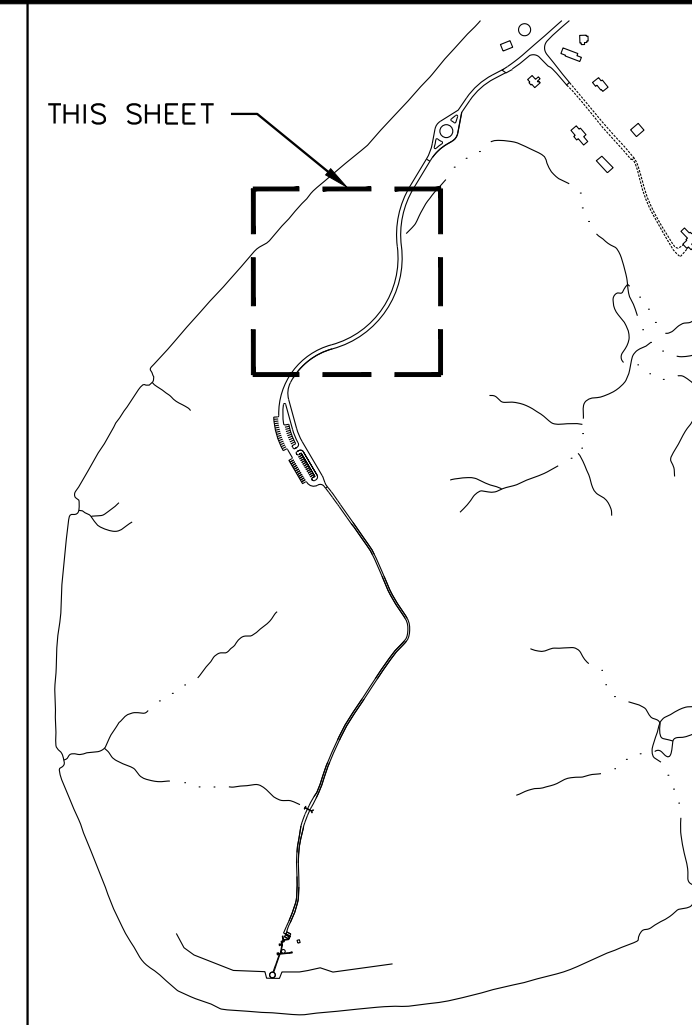
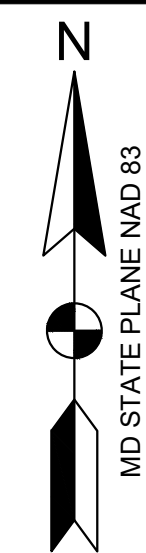
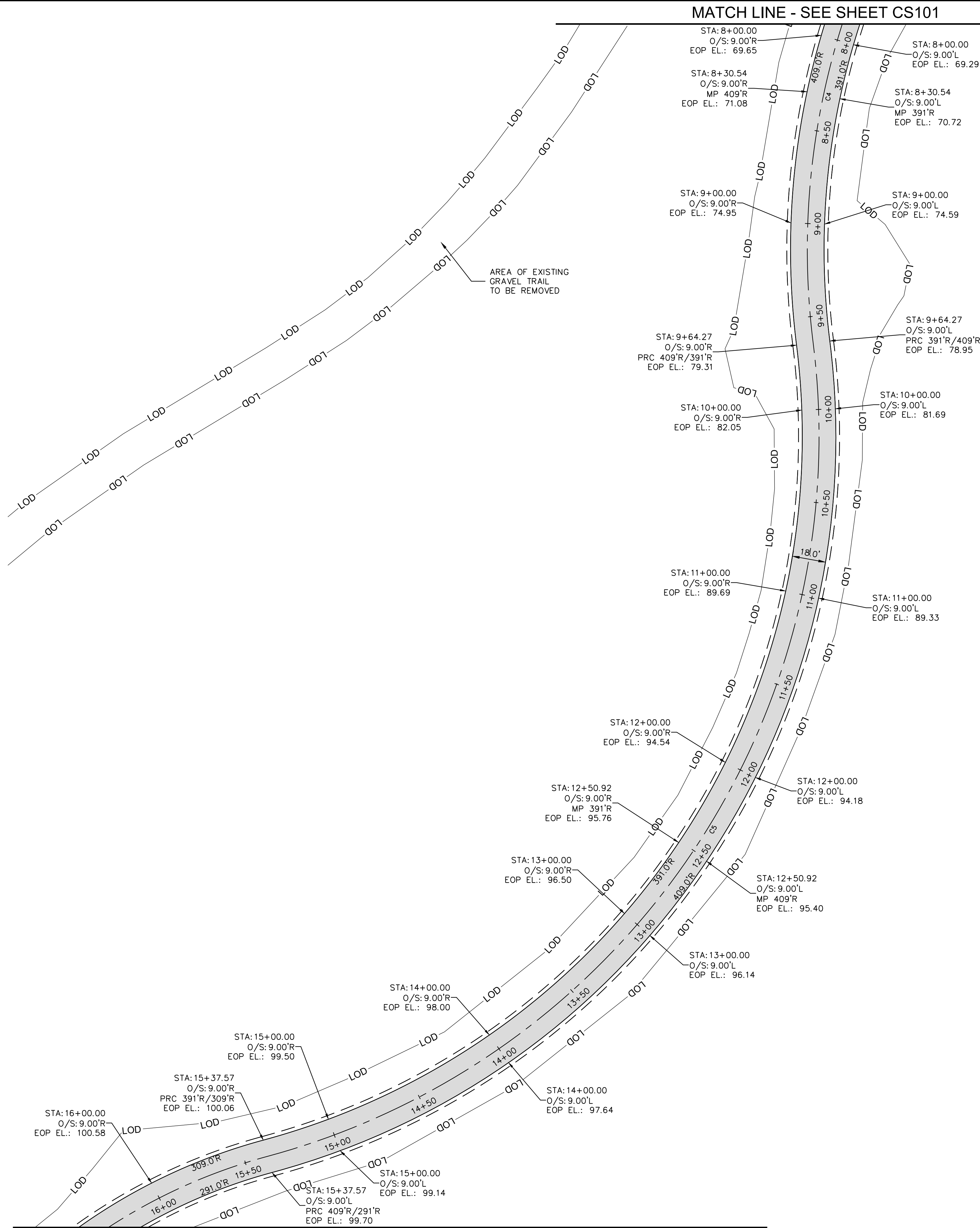
ACCESS ROAD CENTERLINE LINE TABLE				
LINE #	LENGTH	DIRECTION	START POINT	END POINT
L1	2.347'	S59°14'26.16"W	N: 654798.6927 E: 1593332.5949	N: 654797.4925 E: 1593330.5784
L2	164.397'	S31°05'15.14"W	N: 654421.7667 E: 1592991.1232	N: 654280.9807 E: 1592906.3468
L3	129.151'	S15°21'20.83"E	N: 653357.2636 E: 1592362.9068	N: 653237.7271 E: 1592392.1036
L4	171.566'	S30°24'20.14"E	N: 653172.3966 E: 1592422.5665	N: 653024.4272 E: 1592509.3991
L5	10.879'	S19°13'54.52"E	N: 653015.5908 E: 1592513.4856	N: 653005.3188 E: 1592517.0691
L6	15.891'	S39°39'57.40"E	N: 652990.2834 E: 1592525.4530	N: 652978.0508 E: 1592535.5964

ACCESS ROAD CENTERLINE CURVE TABLE					
CURVE #	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT
C1	1000.00'	138.40'	S63°12'19.66"W	N: 654797.4925 E: 1593330.5784	N: 654735.1527 E: 1593207.1373
C2	250.00'	210.71'	S43°01'28.48"W	N: 654735.1527 E: 1593207.1373	N: 654585.6291 E: 1593067.584
C3	850.00'	181.12'	S24°58'59.46"W	N: 654585.6291 E: 1593067.5843	N: 654421.7667 E: 1592991.2325
C4	400.00'	267.29'	S11°56'39.17"W	N: 654280.9807 E: 1592906.3468	N: 654024.3147 E: 1592852.0519
C5	400.00'	573.30'	S33°51'38.04"W	N: 654024.3147 E: 1592852.0519	N: 653587.9618 E: 1592559.2706
C6	300.00'	247.64'	S51°16'21.95"W	N: 653587.9618 E: 1592559.2706	N: 653437.3985 E: 1592371.5199
C7	110.00'	82.52'	S06°08'05.10"W	N: 653437.3985 E: 1592371.5199	N: 653357.2636 E: 1592362.9066
C8	250.00'	65.67'	S22°52'50.48"E	N: 653232.7231 E: 1592397.1076	N: 653172.3966 E: 1592422.5665
C9	50.00'	9.75'	S24°49'07.33"E	N: 653024.4272 E: 1592509.3991	N: 653015.5908 E: 1592513.4856
C10	50.00'	17.30'	S29°08'40.72"E	N: 653005.3188 E: 1592517.0691	N: 652990.2834 E: 1592525.4530

MATCH LINE - SEE SHEET CS102

X:\ROCKVILLE\15-1177.004 - ELK NECK STATE PARK ACCESS ROAD\05-CAD\CS101-P026192010.DWG, 11/14/2022 11:04 AM, MWYCHULIS

X:\ROCKVILLE\15-1177-004- ELK NECK STATE PARK ACCESS ROAD\05-CAD\CS102-P026192010.DWG, 11/14/2022 11:04 AM, MWYCHULIS

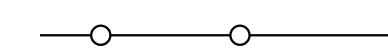


KEY MAP
NOT TO SCALE

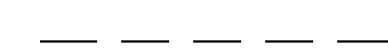
SITE IMPROVEMENT PLAN LEGEND



NEW ASPHALT PAVEMENT,
SEE DET. 2/CS-501



NEW WOODEN GUARDRAIL,
SEE DET. 1/CS-502



EDGE OF SHOULDER,
SEE TYP. SECTIONS, SHEET CS-503

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ROCKVILLE, MARYLAND 20850
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LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION
-----	------	-------------

DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	CS102-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=30'

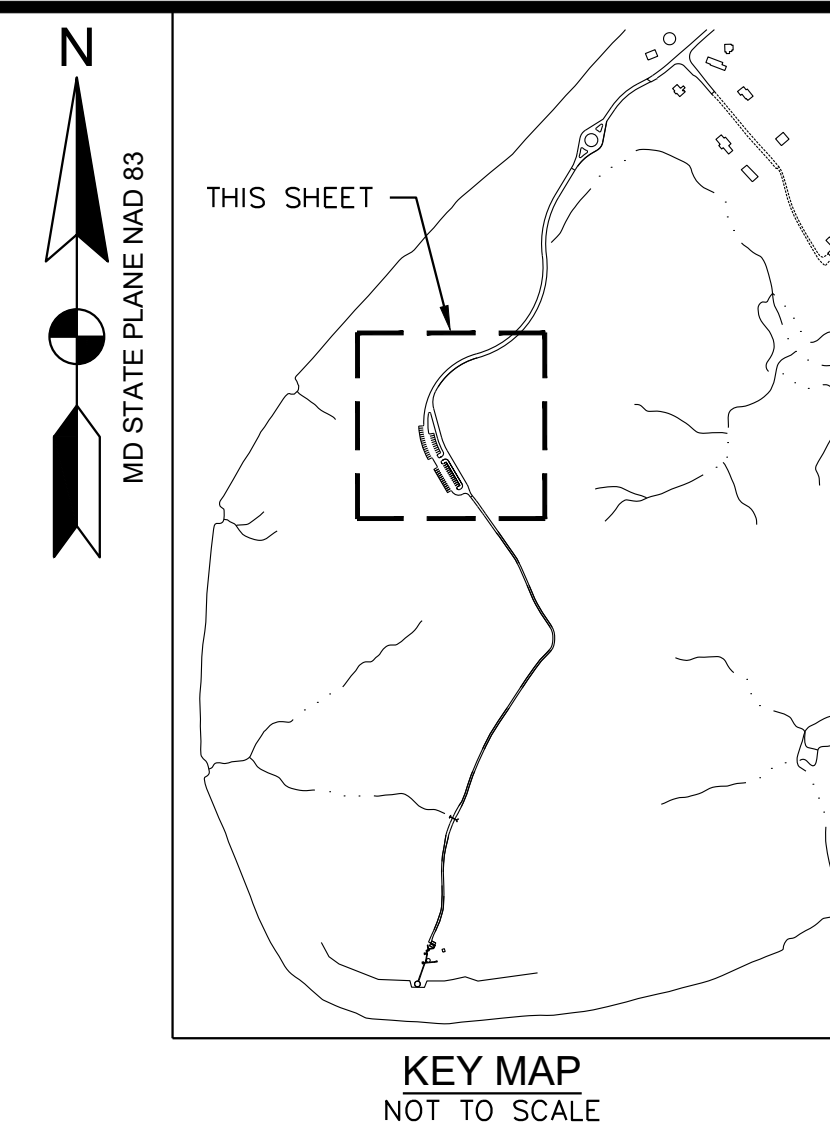
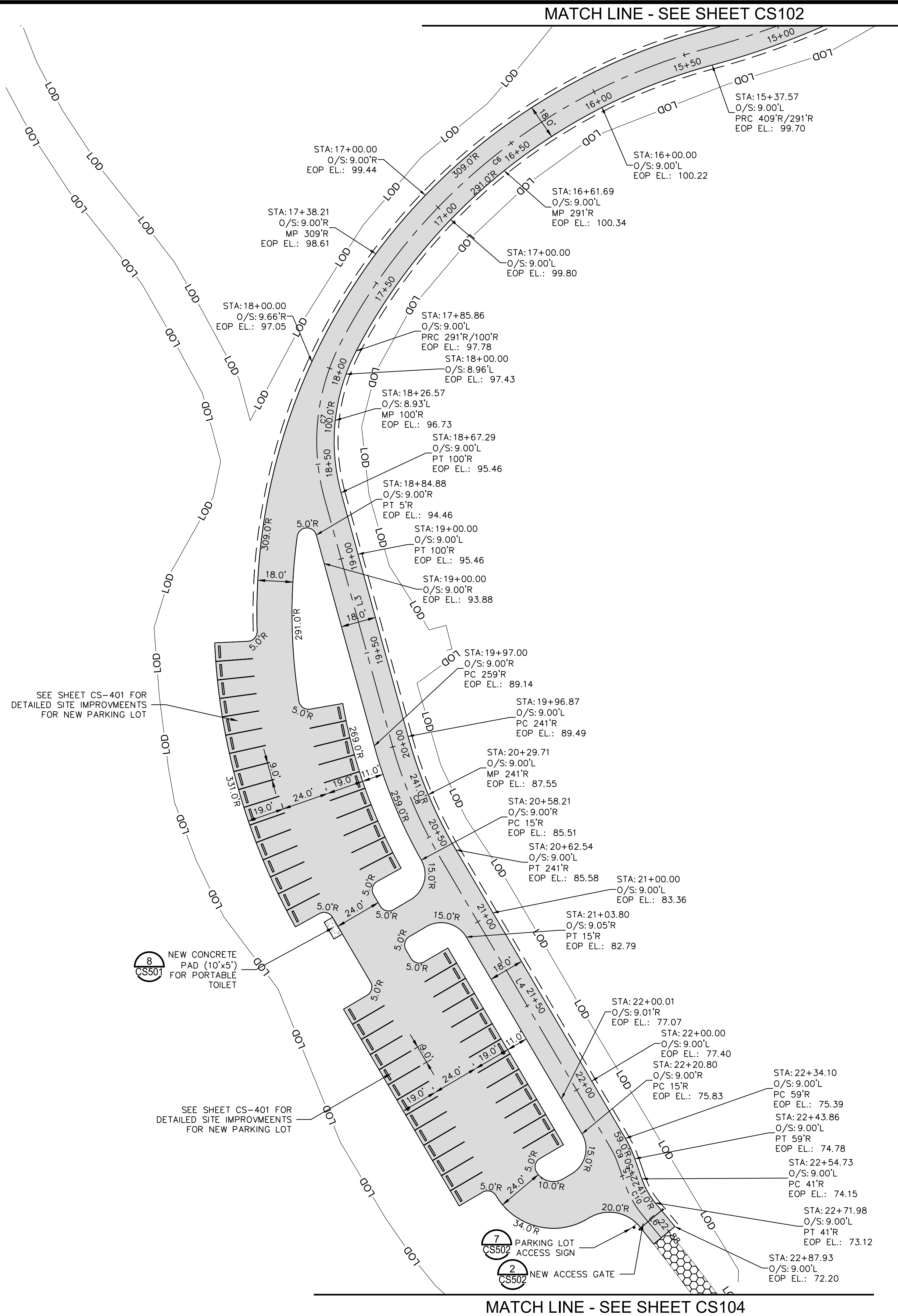
DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

SITE IMPROVEMENTS
PLAN

CS102

SHEET 33 OF 74



SITE IMPROVEMENT PLAN LEGEND	
	NEW ASPHALT PAVEMENT, SEE DET. 2/CS-501
	NEW WOODEN GUARDRAIL, SEE DET. 1/CS-502
	EDGE OF SHOULDER, SEE TYP. SECTIONS, SHEET CS-503

A M T A. MORTON THOMAS AND ASSOCIATES, INC. CONSULTING ENGINEERS 800 KING FARM BOULEVARD, 4TH FLOOR ROCKVILLE, MD 20850 (301) 881-2545 FAX:(301) 881-0814 EMAIL: AMT1@AMTENGINEERING.COM		
CONSULTANTS		
GEOTECHNICAL ENGINEERING AB CONSULTANTS, INC. 9450 ANNAPOLIS ROAD LANHAM, MARYLAND 20706 301-306-3091		
ELECTRICAL ENGINEER C.C. JOHNSON & MALHOTRA, P.C. 9210 CORPORATE BLVD., SUITE 370 ROCKVILLE, MARYLAND 20850 410-461-9920		
REGISTRATION STAMP		
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PROJECT		
TURKEY POINT LIGHTHOUSE ROAD AND PARKING LOT IMPROVEMENT AT ELK NECK STATE PARK		
100% CONSTRUCTION DOCUMENTS		
NUM	DATE	DESCRIPTION
DATE:		NOVEMBER 14, 2022
CAD DWG FILE:		CS103-P026192010.DWG
DRAWN BY:		NS
CHECKED BY:		MCW
SCALE:		1"=30'
DGS PROJECT NO: P-026-192-010		
DRAWING TITLE:		
SITE IMPROVEMENTS PLAN		
CS103		
SHEET	27	OF 74

MATCH LINE - SEE SHEET CS104 (LEFT)



AMT

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LICENSE NO. 32561 EXPIRATION DATE 01-06-2024

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION DOCUMENTS

NUM	DATE	DESCRIPTION

DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	CS104-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=50'

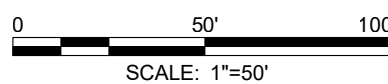
DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

SITE IMPROVEMENTS PLAN

CS104

SHEET 28 OF 74



IF THIS DRAWING IS NOT 24"x36" USE GRAPHIC SCALE

X:\ROCKVILLE\15-1177.004 - ELK NECK STATE PARK ACCESS ROAD\05-CADICS104-P026192010.DWG, 11/14/2022 11:04 AM, MWYCHULIS

MATCH LINE - SEE SHEET CS104 (RIGHT)

DGS No. P-026-192-010	MDE (SWM + E&S) No. 21-SF-0132	FAP #: STP-CXXXXXX	STATE PROJECT #: MD-XX-X
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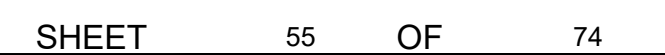


The diagram illustrates the components of a tree's critical root zone (CRZ) and the surrounding landscape features. It includes the following elements:

- EXISTING 1' CONTOUR**: A dashed line representing the existing 1-foot contour.
- EXISTING 5' CONTOUR**: A solid line representing the existing 5-foot contour.
- FOREST EDGE**: A line indicating the boundary of the forest.
- WETLAND**: A shaded area representing a wetland.
- STREAM**: A line representing a stream.
- STREAM BUFFER**: A shaded area representing the stream buffer.
- FLOODPLAIN**: A shaded area representing the floodplain.
- FOREST INTERIOR DWELLING SPECIES**: A label indicating the presence of forest interior dwelling species.
- LIMIT OF DISTURBANCE**: A line representing the limit of disturbance.
- CRZ**: Critical Root Zone, indicated by a circle around a tree symbol.
- EX. TREE AND CRITICAL ROOT ZONE**: An example of a tree and its critical root zone.
- EX. SPECIMEN TREE AND CRITICAL ROOT ZONE**: An example of a specimen tree and its critical root zone.

IMPACT TABLE	
TOTAL LIMIT OF DISTURBANCE	7.12 ACRES
FOREST CLEARING	2.52 ACRES
EXISTING IMPERVIOUS SURFACE	3.86 ACRES
PROPOSED IMPERVIOUS SURFACE	5.46 ACRES
IMPACTS TO STEEP SLOPES (15% OR GREATER)	0.69 ACRES
IMPACTS TO FIDS HABITAT	7.12 ACRES
IMPACTS TO CRITICAL AREA BUFFER	3.05 ACRES

IF THIS DRAWING IS NOT 24"x36" USE GRAPHIC SCALE





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ELECTRICAL ENGINEER
C.C. JOHNSON & MALHOTRA, P.C.
9210 CORPORATE BLVD, SUITE 370
ROCKVILLE, MARYLAND 20850
410-461-9920

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 LICENSE NO. 3381 EXPIRATION DATE 10-22-2024

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	LS101-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=30'

DRAWING TITLE:

LS101

X:\ROCKVILLE\15-1177.004 - ELK NECK STATE PARK ACCESS ROAD\05-CAD\LS101-P026192010.DWG, 11/14/2022 11:12 AM, EBATLAS

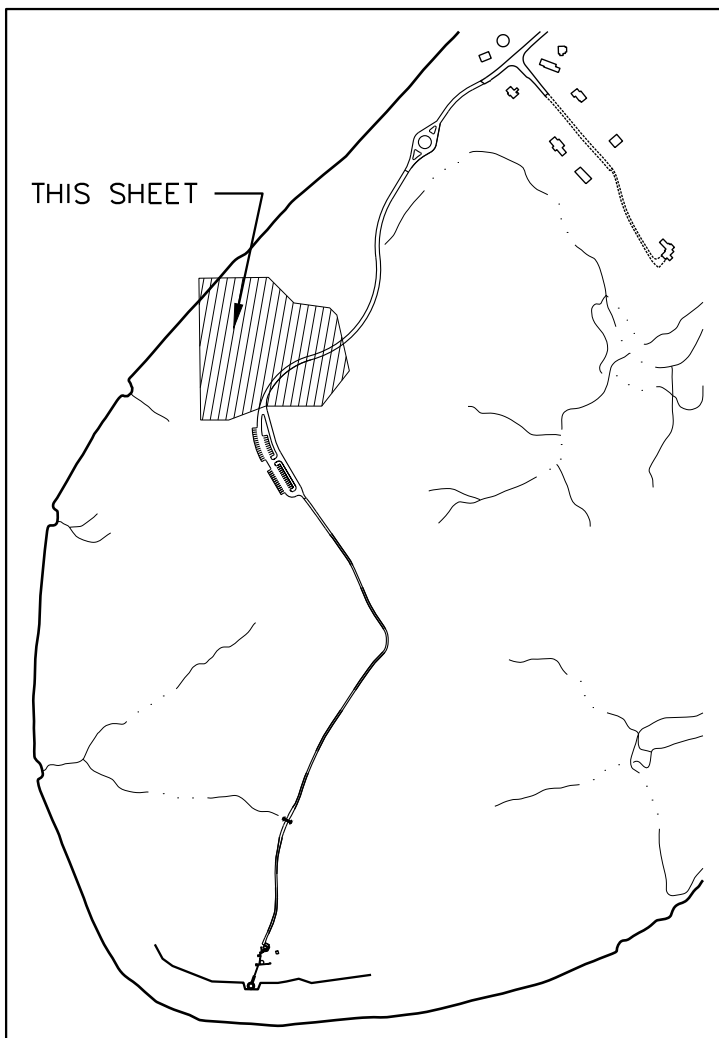
IF THIS DRAWING IS NOT 24"x36" USE GRAPHIC SCALE

DGS No. P-026-192-010	MDE (SWM + E&S) No. 21-SF-0132	FAP #: STP-CXXXXXX	STATE PROJECT #: MD-XX-XX
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 301-306-3091

TURKEY POINT LIGHTHOUSE
 ROAD AND PARKING LOT
 IMPROVEMENT AT
 ELK NECK STATE PARK

LS103



KEY MAP
NOT TO SCALE

EXISTING 1' CONTOUR

EXISTING 5' CONTOUR

FOREST EDGE

WETLAND

WL

SB

FP

LOD

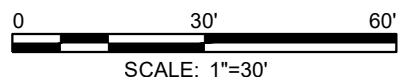
CRZ

CRZ

EX. TREE AND CRITICAL ROOT ZONE

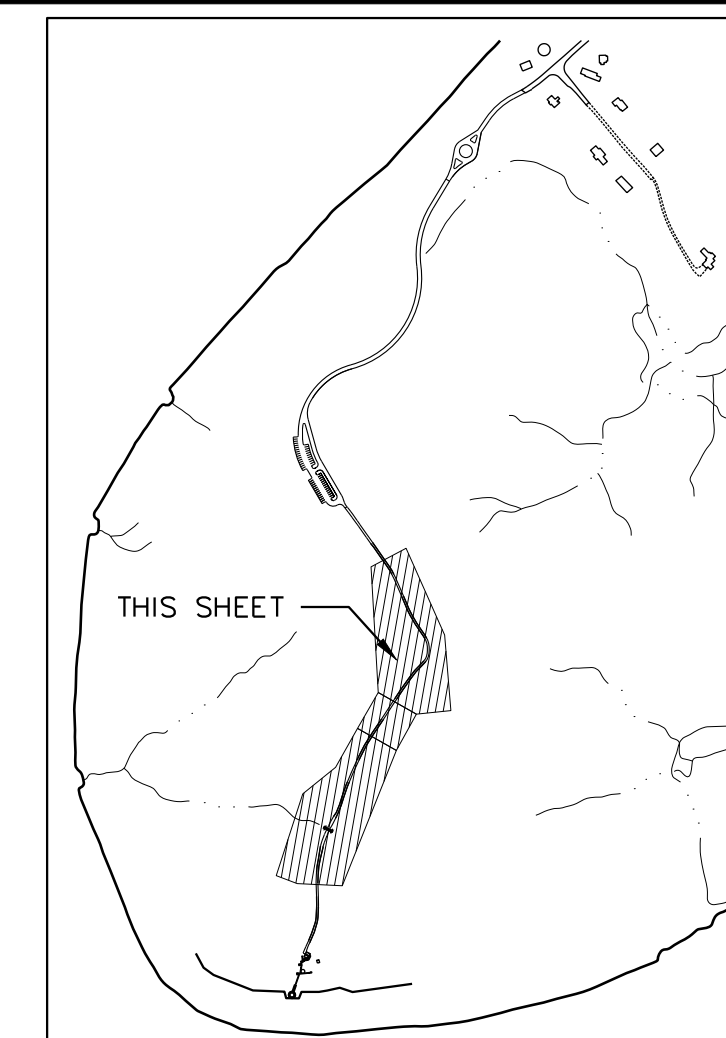
EX. SPECIMEN TREE AND CRITICAL ROOT ZONE





IF THIS DRAWING IS NOT 24"x36" USE GRAPHIC SCALE





LEGEND

The diagram illustrates the components of a stream reach and the critical root zone of a tree. It is divided into two main sections: a plan view of a stream reach and a cross-sectional view of a tree's root zone.

Stream Reach Components (Plan View):

- EXISTING 1' CONTOUR:** Represented by a dashed line at the top.
- EXISTING 5' CONTOUR:** Represented by a solid line below the 1' contour.
- FOREST EDGE:** Indicated by a series of semi-circular shapes representing trees.
- WETLAND:** The area between the forest edge and the stream.
- STREAM:** The central water body.
- STREAM BUFFER:** The area immediately adjacent to the stream.
- FLOODPLAIN:** The area beyond the stream buffer.
- LIMIT OF DISTURBANCE:** Indicated by a line with a break symbol (two parallel lines of unequal length).

Tree Root Zone (Cross-sectional View):

- EX. TREE AND CRITICAL ROOT ZONE:** A diagram showing a tree trunk at the center, surrounded by a circular area labeled "CRZ" (Critical Root Zone).
- EX. SPECIMEN TREE AT CRITICAL ROOT ZONE:** A diagram showing a tree trunk at the center, surrounded by a circular area labeled "CRZ" (Critical Root Zone).

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PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION

DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	LS105-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=30'

DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

MITIGATION PLANTING PLAN

LS105

SHEET 60 OF 74

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XX-XI

DGS No. P-026-192-010	MDE (SWM + E&S) No. 21-SF-0132	FAP #: STP-CXXXXXX	STATE PROJECT #: MD-XX-X
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TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

[illegible]

DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	LS106-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=30'

DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

LS106



LEGEND

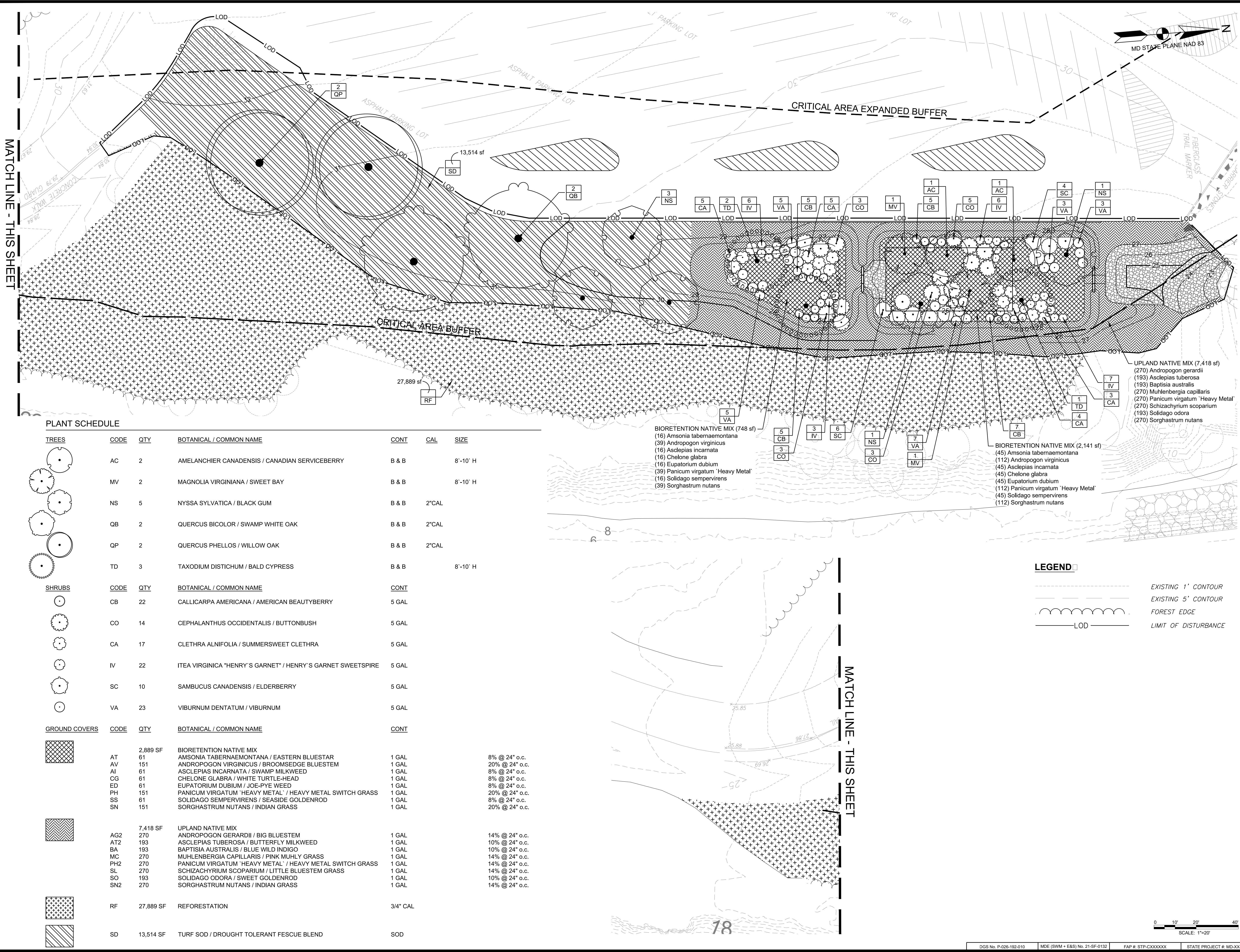
EXISTING 1' CONTOUR
EXISTING 5' CONTOUR
FOREST EDGE
WETLAND
STREAM
STREAM BUFFER
FLOODPLAIN
LIMIT OF DISTURBANCE

EX. TREE AND
CRITICAL ROOT ZONE

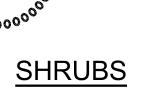
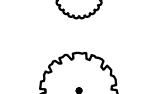
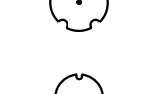
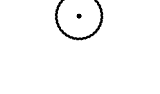
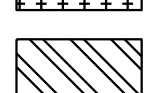
EX. SPECIMEN TREE AND
CRITICAL ROOT ZONE



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PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	AC	2	AMELANCHIER CANADENSIS / CANADIAN SERVICEBERRY	B & B		8'-10' H
	MV	2	MAGNOLIA VIRGINIANA / SWEET BAY	B & B		8'-10' H
	NS	5	NYSSA SYLVATICA / BLACK GUM	B & B	2" CAL	
	QB	2	QUERCUS BICOLOR / SWAMP WHITE OAK	B & B	2" CAL	
	QP	2	QUERCUS PHELLOS / WILLOW OAK	B & B	2" CAL	
	TD	3	TAXODIUM DISTICHUM / BALD CYPRESS	B & B		8'-10' H
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT		
	CB	22	CALLICARPA AMERICANA / AMERICAN BEAUTYBERRY	5 GAL		
	CO	14	CEPHALANTHUS OCCIDENTALIS / BUTTONBUSH	5 GAL		
	CA	17	CLETHRA ALNIFOLIA / SUMMERSWEET CLETHRA	5 GAL		
	IV	22	ITEA VIRGINICA "HENRY'S GARNET" / HENRY'S GARNET SWEETSPIRE	5 GAL		
	SC	10	SAMBUCUS CANADENSIS / ELDERBERRY	5 GAL		
	VA	23	VIBURNUM DENTATUM / VIBURNUM	5 GAL		
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT		
	AT	2,889 SF	BIORETENTION NATIVE MIX	1 GAL		8% @ 24" o.c.
	AV	61	AMSONIA TABERNAEMONTANA / EASTERN BLUESTAR	1 GAL		20% @ 24" o.c.
	AI	61	ANDROPOGON VIRGINICUS / BROOMSEDGE BLUESTEM	1 GAL		8% @ 24" o.c.
	CG	61	ASCLEPIAS INCARNATA / SWAMP MILKWEED	1 GAL		8% @ 24" o.c.
	ED	61	CHELONE GLABRA / WHITE TURTLE-HEAD	1 GAL		8% @ 24" o.c.
	PH	151	EUPATORIUM DUBIUM / JOE-PYE WEED	1 GAL		20% @ 24" o.c.
	SS	61	PANICUM VIRGATUM "HEAVY METAL" / HEAVY METAL SWITCH GRASS	1 GAL		8% @ 24" o.c.
	SN	151	SOLIDAGO SEMPERVIRENS / SEASIDE GOLDENROD	1 GAL		20% @ 24" o.c.
			SORGHASTRUM NUTANS / INDIAN GRASS	1 GAL		
	AG2	7,418 SF	UPLAND NATIVE MIX	1 GAL		14% @ 24" o.c.
	AT2	193	ANDROPOGON GERARDII / BIG BLUESTEM	1 GAL		10% @ 24" o.c.
	BA	193	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	1 GAL		10% @ 24" o.c.
	MC	270	BAPTISIA AUSTRALIS / BLUE WILD INDIGO	1 GAL		14% @ 24" o.c.
	PH2	270	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS	1 GAL		14% @ 24" o.c.
	SL	270	PANICUM VIRGATUM "HEAVY METAL" / HEAVY METAL SWITCH GRASS	1 GAL		14% @ 24" o.c.
	SO	193	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM GRASS	1 GAL		10% @ 24" o.c.
	SN2	270	SOLIDAGO ODORA / SWEET GOLDENROD	1 GAL		14% @ 24" o.c.
			SORGHASTRUM NUTANS / INDIAN GRASS	1 GAL		
	RF	27,889 SF	REFORESTATION	3/4" CAL		
	SD	13,514 SF	TURF SOD / DROUGHT TOLERANT FESCUE BLEND	SOD		

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LICENSE NO. 3381 EXPIRATION DATE 10-22-2024

PROJECT

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

100% CONSTRUCTION
DOCUMENTS

NUM	DATE	DESCRIPTION
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DATE:	NOVEMBER 14, 2022
CAD DWG FILE:	LS107-P026192010.DWG
DRAWN BY:	NS
CHECKED BY:	MCW
SCALE:	1"=20'

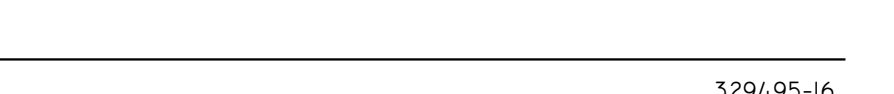
DGS PROJECT NO: P-026-192-010

DRAWING TITLE:

MITIGATION PLANTING
PLAN - ROGUE'S
HARBOR

LS107

SHEET 62 OF 74



1. THE PURPOSE OF THIS BUFFER MANAGEMENT PLAN IS TO COMPLY WITH THE BUFFER MITIGATION AND ESTABLISHMENT REQUIREMENTS FOR THE FOLLOWING PROJECT: TURKEY POINT LIGHTHOUSE AND PARKING LOT IMPROVEMENTS AT ELK NECK STATE PARK
2. THE STREET ADDRESS OF THE PROPERTY IS: 4395 TURKEY POINT ROAD, NORTH EAST, MD 21901
3. THE PROPERTY IS IDENTIFIED AS: TAX MAP 0050, PARCEL 003
4. THE CRITICAL AREA DESIGNATION IS RCA.

1. PLANTING WILL BEGIN ON OR ABOUT _____.
2. REMOVE TURF GRASS, WEEDS, AND DEBRIS. PREPARE SITE FOR PLANTING BY TILLING, DIGGING, AND INCORPORATING TOPSOIL OR OTHER SOIL CONDITIONS.
3. PRIOR TO PLANTING, PROTECT PLANTS FROM ADVERSE WEATHER CONDITIONS AFTER DELIVERY UNTIL THEY ARE PLANTED. PLANTS SHOULD BE PLANTED WITHIN 72 HOURS OF DELIVERY.
4. INSTALL PLANTS IN ACCORDANCE WITH NURSERY SPECIFICATIONS IN THE LOCATIONS SHOWN ON THE PLAN. PLANT THE LARGEST STOCK FIRST.
5. PRUNE ONLY DEAD OR BROKEN BRANCHES ON NEW STOCK PRIOR TO INSTALLATION.
6. STAKE TREES ONLY IF NECESSARY DUE TO SITE CONDITIONS OR STOCK SIZE.
7. WATER PLANTS THOROUGHLY.
8. MULCH AROUND NEW PLANTS TO MAINTAIN MOISTURE LEVELS AND REDUCE COMPETITION FROM WEEDS AND INVASIVE SPECIES.

1. ALL PLANTINGS SHOULD BE NATIVE TO THE COASTAL PLAIN BASED ON THE U.S. FISH AND WILDLIFE SERVICE PUBLICATION TITLED NATIVE PLANTS FOR WILDLIFE HABITAT AND CONSERVATION LANDSCAPING, CHESAPEAKE BAY WATERSHED.
2. CANOPY TREES ARE THOSE THAT REACH A HEIGHT OF AT LEAST 35 FEET AT MATURITY. CANOPY TREES WILL BE BALLED AND BURLAPPED OR CONTAINER STOCK. STOCK THAT IS 2-INCH CALIPER IS CREDITED AT 200 SQUARE FEET. STOCK THAT IS ¾-INCH CALIPER IS CREDITED AT 100 SQUARE FEET. HEIGHTS MAY VARY.
3. UNDERSTORY TREES ARE THOSE THAT REACH A HEIGHT OF 12 TO 35 FEET AT MATURITY. UNDERSTORY TREES WILL BE BALLED AND BURLAPPED OR CONTAINER STOCK. STOCK THAT IS ¾-INCH CALIPER IS CREDITED AT 75 SQUARE FEET. HEIGHTS MAY VARY.
4. LARGE SHRUBS ARE THOSE THAT REACH A HEIGHT OF AT LEAST SIX FEET AT MATURITY. LARGE SHRUBS WILL BE BALLED AND BURLAPPED OR CONTAINER STOCK AND WILL BE AT LEAST THREE FEET HIGH.
5. SMALL SHRUBS ARE THOSE THAT REACH A HEIGHT OF UP TO SIX FEET AT MATURITY. SMALL SHRUBS WILL BE BALLED AND BURLAPPED OR CONTAINER STOCK AND WILL BE AT LEAST 18 INCHES HIGH.
6. HERBACEOUS PLANTS AND GRASSES ARE NONWOODY VEGETATION THAT IS OFTEN DORMANT DURING THE WINTER. HERBACEOUS PLANTS AND GRASSES WILL BE CONTAINER STOCK. SIZES AND HEIGHTS MAY VARY. A SEED MIX MAY BE USED FOR LARGER AREAS OF HERBACEOUS PLANTS AND GRASSES AT THE DISCRETION OF THE LOCAL GOVERNMENT.

1. MONITOR THE PLANTINGS TWICE WEEKLY TO REDUCE TRANSPLANT STRESS FROM WATER DEFICIENCY, NUTRIENT DEFICIENCY, INVASIVE SPECIES COMPETITION, PEST DAMAGE, AND DISEASE.
2. WATER AS NECESSARY BUT AT LEAST ONCE EVERY TEN DAYS WITHOUT RAINFALL FROM MAY THROUGH SEPTEMBER, DEPENDING ON SOIL MOISTURE LEVELS. MONITOR TO ENSURE THAT OVERWATERING DOES NOT OCCUR.
3. IF NEEDED, USE A LOW NITROGEN, SLOW RELEASE FERTILIZER IN LATE FALL OR EARLY SPRING.
4. TWO YEARS FROM THE PLANTING DATE, THE PLANTINGS SHALL BE INSPECTED AND ASSESSED TO DETERMINE THE NEED FOR REPLACEMENT PLANTINGS.

1. THE PLANTING AREA WILL BE MONITORED FOR TWO YEARS FROM THE PLANTING DATE. SURVIVAL OF ALL PLANTS IS REQUIRED. ANY PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.
2. IF THE LOCAL GOVERNMENT DETERMINES THAT THE SURVIVAL IS NOT ADEQUATE, THE MONITORING PERIOD MAY BE EXTENDED, AND ADDITIONAL INSPECTIONS REQUIRED AT THE LOCAL GOVERNMENT'S DISCRETION.

1. REMOVAL OF NATURAL VEGETATION WITHIN THE BUFFER AND EXPANDED BUFFER IS PROHIBITED. CUTTING, CLEARING, PRUNING, AND REMOVAL OF INVASIVE OR NOXIOUS VEGETATION ARE PERMITTED ONLY IN ACCORDANCE WITH AND AS SHOWN ON THIS BUFFER MANAGEMENT PLAN.
2. THE BUFFER AND EXPANDED BUFFER ON THIS PROPERTY SHALL BE PLANTED IN ACCORDANCE WITH THIS BUFFER MANAGEMENT PLAN. ALL EXISTING AND PLANTED VEGETATION WITHIN THE BUFFER SHALL BE PERMANENTLY MAINTAINED AND MAY NOT BE CUT, CLEARED, OR REMOVED. SURVIVAL OF THE NEW PLANTINGS SHALL BE AS DESCRIBED IN THE MONITORING AND REQUIRED SURVIVAL NOTES.
3. NEW LAWN AREAS SHALL NOT BE CREATED WITHIN THE BUFFER AND EXPANDED BUFFER UNLESS SPECIAL CIRCUMSTANCES EXIST, AND THEY ARE SPECIFICALLY ADDRESSED IN THIS BUFFER MANAGEMENT PLAN.
4. THIS BUFFER MANAGEMENT PLAN MAY BE AMENDED OR MODIFIED, SUBJECT TO APPROVAL BY THE LOCAL GOVERNMENT. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE PLANNING AND ZONING OFFICE AT:
PHONE: _____
EMAIL: _____

I CERTIFY THAT THE INFORMATION SUBMITTED ON THIS PLAN AND FORM IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I UNDERSTAND THAT LOCAL GOVERNMENT PERSONNEL WILL CONTACT ME AND ARRANGE TO INSPECT THE WORK. I WILL ABIDE BY THIS PLAN AS SUBMITTED AND APPROVED AND WILL NOT CONDUCT ANY WORK BEYOND THE LIMITS OF THIS PLAN.

I, _____, THE OWNER OF THE SUBJECT PROPERTY ADDRESSED HEREIN, DO HEREBY GRANT PERMISSION TO THE APPROVING AUTHORITY TO ACCESS MY PROPERTY FOR THE PURPOSE OF INSPECTING THE PLANTINGS AT THE APPROPRIATE TIMES.

THIS BUFFER MANAGEMENT PLAN HAS BEEN REVIEWED AND APPROVED FOR CONSISTENCY WITH THE LOCAL CRITICAL AREA PROGRAM AND THE PROVISIONS OF COMAR 27.01.09.01-1-8.

REFORESTATION PLANT LIST				
OVERSTORY SHADE TREES				
CT	152	<i>Carya tomentosa</i>	Mockernut Hickory	3/4" Cal., Container
CO	152	<i>Celtis occidentalis</i>	Hackberry	3/4" Cal., Container
NS	152	<i>Nyssa sylvatica</i>	Blackgum	3/4" Cal., Container
QA	152	<i>Quercus alba</i>	White Oak	3/4" Cal., Container
QB	152	<i>Quercus bicolor</i>	Swamp White Oak	3/4" Cal., Container
QF	152	<i>Quercus falcata</i>	Southern Red Oak	3/4" Cal., Container
QP	152	<i>Quercus phellos</i>	Willow Oak	3/4" Cal., Container
QP	152	<i>Quercus prinus</i>	Chestnut Oak	3/4" Cal., Container
QP	152	<i>Quercus rubra</i>	Red Oak	3/4" Cal., Container
SA	153	<i>Sassafras albidum</i>	Sassafras	3/4" Cal., Container
UNDERSTORY ORNAMENTAL TREES				
AC	146	<i>Amelanchier canadensis</i>	Shadblow Serviceberry	5' Ht., B&B
CC	146	<i>Cercis canadensis</i>	Eastern Redbud	3/4" Cal., Container
CF	146	<i>Cornus florida</i>	Flowering Dogwood	3/4" Cal., Container
MV	147	<i>Magnolia virginiana</i>	Sweet Bay	5' Ht., B&B
EVERGREEN TREES				
IO	117	<i>Ilex opaca</i>	American Holly	5' Ht., B&B
PT	117	<i>Pinus taeda</i>	Loblolly Pine	5' Ht., B&B

REFORESTATION/AFFORESTATION AREA: 226,727 SF/5.20 AC
PLANTED AT 450 TREES PER ACRE
TOTAL TREES PROVIDED: 2,340

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LICENSE NO. 3381 EXPIRATION DATE 10-22-2024

TURKEY POINT LIGHTHOUSE
ROAD AND PARKING LOT
IMPROVEMENT AT
ELK NECK STATE PARK

NUM	DATE	DESCRIPTION

MITIGATION DETAILS & NOTES

LS502

SHEET 64 OF 74