RESPONSIBLE L/ DCR CERTIFICAT INSPECTOR, OR VIRGINIA PROFE ONSIBLE LAND D	AND DISTURBER CERTIFICATE TION FOR COMBINED ADMINISTRATOR CONTRACTOR. ESSIONAL ENGINEER, LAND SURVEYOF	R, ADMINISTRATOR, PLAN RE R, LANDSCAPE ARCHITECT,	VIEWER, OR ARCHITECT	-	TURF	FIE	ELD
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SUFFOLK, VA CONTACT:	A 23434 ANTHONY HINDS	SUFFOLK, VA 23434 CONTACT: KEVIN WYI	NE, CURRENT PLANNING MGR.	SUFFOLK, VA 23 CONTACT: DE	434 AN ADAMS		1
PHONE: EMAIL:	(757) 925-6750 x668230 ANTHONYHINDS@SPSK12.NET	PHONE: (757) 514-4 EMAIL: KWYNE@S	.065 SUFFOLKVA.US	PHONE: (75 EMAIL: DN	57) 514-7029 1ADAMS@SUFFOLKVA.US		11
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CONTACT: PHONE:	DAN RUBY, PE (757) 213-6661	CONTACT: ERIN ROUN PHONE: (757) 514-7	NTREE 678	PHONE: (80	00) 543-8911		
EMAIL:	DAN.RUBY@TIMMONS.COM	Email: Erountre	LE@SUFFOLKVA.US				
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LOVETTSVILL CONTACT:	LE, VA 20180 MATT VETTER, PE	SUFFOLK, VA 23434 CONTACT: JASON SO	UDERS	NORFOLK, VA 2 CONTACT: BE	3509 ELINDA WINSTEAD		Carles -
PHONE: EMAIL:	(703) 999-9748 MATT.VETTER@LDDSPORTS.COM	PHONE: (757) 514-7 EMAIL: JSOUDERS	649 S@SUFFOLKVA.US	PHONE: (75 EMAIL: BE	57) 857-2870 ELINDA.WINSTEAD@DOMINIONE	NERGY.COM	
SURVE	YOR	FIRE MARSHA			ONE/INTERNET SEF	RVICE	
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				PORISMOUTH	VA 23701		
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# **IGH SCHOOL CONVERSION**

# IA

# **RESPONSIBLE LAND DISTURBER NOTE**

THE PROFESSIONAL WHOSE SEAL IS AFFIXED HEREON SHALL ACT AS THE "RESPONSIBLE LAND DISTURBER" FOR THE PURPOSES OF PLAN APPROVAL ONLY. PRIOR TO THE ISSUANCE OF THE LAND DISTURBING PERMIT, THE OWNER OR DEVELOPER SHALL PROVIDE THE NAME OF A "RESPONSIBLE LAND DISTURBER" WHO SHALL ASSUME RESPONSIBILITY AS THE "RESPONSIBLE LAND DISTURBER" FOR THE CONSTRUCTION PHASE OF THE PROJECT. THE OWNER OR DEVELOPER SHALL PROVIDE WRITTEN NOTIFICATION SHOULD THE "RESPONSIBLE LAND DISTURBER" CHANGE DURING CONSTRUCTION.





# **TY OF VIRGINIA**

SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF TRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL ILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION M THAT SHOWN ON THE PLAN, IF THERE APPEARS TO BE A CONFLICT, OVERY OF ANY UTILITY NOT SHOWN ON PLAN. THE DEVELOPER SHALL OR THE RELOCATION OF ANY UTILITY WITHIN THE EXISTING AND/OR QUIRED BY THE DEVELOPMENT. CONTACT MISS UTILITY OF VIRGINIA: L FREE) OR DIAL 811.



RMATION TABLE				
4.12 LB/YR				
SYNTHETIC TURF FIELD (FUNCTIONS AS PERMEABLE PAVEMENT LEVEL 1)				
N: 3427871.99' E: 12021351.54'				
3.77 AC   3.44 AC IMPERVIOUS				
4.37 LB/YR				
SUFFOLK PUBLIC SCHOOLS				
SUFFOLK PUBLIC SCHOOLS				
0.25 LB/YR				



	SHEET INDEX				
SHEET NO.	SHEET TITLE				
C-0.0	COVER SHEET				
C-0.1	CIVIL PROJECT NOTES				
C-0.2	PRE-DEVELOPMENT DRAINAGE AREA MAP				
C-0.3	POST-DEVELOPMENT DRAINAGE AREA MAP				
C-1.0	EXISTING CONDITIONS SURVEY				
C-2.0	EROSION & SEDIMENT CONTROL NARRATIVE				
C-2.1	PHASE 1 EROSION & SEDIMENT CONTROL PLAN				
C-2.2	PHASE 2 EROSION & SEDIMENT CONTROL PLAN				
C-2.3	EROSION & SEDIMENT CONTROL DETAILS				
C-3.0	DEMOLITION PLAN				
C-4.0	SITE LAYOUT PLAN				
C-4.1	FIELD DIMENSION PLAN				
C-5.0	GRADING PLAN				
C-5.1	DRAINAGE PLAN				
C-6.0	CONSTRUCTION DETAILS				
C-6.1	DRAINAGE DETAILS				
C-6.2	DRAINAGE DETAILS				
C-6.3	DRAINAGE DETAILS				
C-6.4	DRAINAGE DETAILS				
C-7.0	ATHLETIC DETAILS				
C-7.1	ATHLETIC DETAILS				
C-7.2	ATHLETIC DETAILS				
C-7.3	ATHLETIC DETAILS				

# LAND RECORDS

SOURCE OF TITLE

THIS PROPERTY WAS CONVEYED TO THE SCHOOL BOARD OF THE CITY OF SUFFOLK FROM LOUISE LUTER PARKER AND JAMES HODGES PARKER BY DEED DATED AUGUST 25, 1988, RECORDED IN DEED BOOK 233, PAGE 195 IN THE CLERK'S OFFICE OF THE CIRCUIT COURT OF THE CITY OF SUFFOLK, VIRGINIA.

# APPROVALS

TIMMONS GROUP IS NOT RESPONSIBLE OR LIABLE FOR ANY CONSTRUCTION OR DAMAGES TO THIS PROJECT PRIOR TO ALL FINAL PLAN APPROVALS.

1.	PROPERTY ADDRESS	214 KENYON ROAD, SUFFOLK, VA 23434	ANTER DANTE	עסווס ק	SE .	
2.	TAX MAP NO.	33*11*H	Eic. No.	ы. ковт . 043841	VIA	j 🌢
3.	ACCOUNT NO.	153808600	PRO 11/29	/2021	INEE	,
4.	SOURCE PLAT	P.B. 12, P. 113	STON	AL EIN		
5.	SOURCE DEED	D.B. 233, P. 195	52			
6.	ZONING	RLM (RESIDENTIAL LOW-MEDIUM DISTRICT)	A 2345 s.com			
7.	STORMWATER DESIGN CRITERIA	IIB	ach, V, mmon			
8.	JPA/WETLANDS PERMIT REQUIRED	NO	T THE <b>CE</b> vww.ti			
9.	ONSITE RESOURCE PROTECTION AREA	NO	RED A I OFFI   Virgit (415 v			
10.	EXISTING USE	INSTITUTIONAL - PUBLIC HIGH SCHOOL	PREPA <b>EACH</b> 2 200   340.1	TION		
11.	PROPOSED USE	INSTITUTIONAL - PUBLIC HIGH SCHOOL	WING <b>NIA B</b> Suite X 757	SCRIF		
12.	WATERSHED	NANSEMOND RIVER >> CHESAPEAKE BAY	5 DRA / <b>IRGI</b> n Road 79 FA	N DE		
13.	FLOOD PLAIN INFORMATION	ZONE 'X' OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN	THIS hhave 13.66	/ISIO		
14.	FEMA FIRM INFORMATION	NUMBER: 510156   PANEL: 0210D   EFFECTIVE 11/16/2011	S. Lyn 757.2	RE		
15.	TOPOGRAPHIC SURVEY SOURCE	TIMMONS GROUP	2901 TEL			
16.	HORIZONTAL DATUM	NAD83 & 93HARN (US SURVEY FEET)				
17.	VERTICAL DATUM	NAVD 1988	H OU			
18.	PROPERTY AREA	69.49 ACRES - PER CITY GIS	SOUG			
19.	DISTURBED AREA	ON-SITE DISTURBED AREA:       175,450 SF (4.03 AC)         DISTURBED AREA IN RIGHTS-OF-WAY:       0 SF (0.00 AC)         TOTAL DISTURBED AREA:       175,450 SF (4.03 AC)	IIEVED THI	ΛTE		
20.	BUILDING DATA	NO EXISTING BUILDINGS AFFECTED NOR NEW BUILDINGS PROPOSED	N ACH	2		
21.	PARKING DATA	NO EXISTING SPACES AFFECTED NOR NEW SPACES PROPOSED	VISIO		DATE	Ē
22.	DOMESTIC WATER SERVICE	CITY WATER AVAILABLE. EXISTING SERVICES NOT AFFECTED	YOUR	1	1/29/2	2021
23.	WASTEWATER FLOW DATA	CITY SANITARY SEWER AVAILABLE. EXISTING SERVICES NOT AFFECTED			DRAWN C. HER	RON
24.	FIRE PROTECTION DATA	NOT AFFECTED		D	ESIGNE	D BY
25.	GROUND COVER DATA	DISTURBED AREA 175,450 SF, 4.03 AC		0	C. HER	<i>CON</i>
		PRE-DEVELOPMENT IMPERVIOUS AREA8,394 SF,0.19 AC(4.8%)PRE-DEVELOPMENT MANAGED TURF167,056 SF,3.84 AC(95.2%)POST-DEVELOPMENT IMPERVIOUS AREA104,189 SF,2.40 AC(59.4%)POST-DEVELOPMENT MANAGED TURF71,261 SF,1.63 AC(40.6%)		C	HECKEI D. RU	d by <i>BY</i>
26.	SOIL TYPES	PER USDA NRCS WEB SOIL SURVEY AND ONSITE SOILS EVALUATION		A	SCAL S SHC	.e )WN
		8A   EUNOLA LOAMY FINE SAND  HSG C   0 - 2% SLOPES8B   EUNOLA LOAMY FINE SAND  HSG C   2 - 6% SLOPES				1
		14  LYNCHBURG FINE SANDY LOAM  HSG B22B  SUFFOLK LOAMY SAND  HSG B22B  SUFFOLK LOAMY SAND	•	VIRGINIA	orough	

# CONSTRUCTION RECORD DRAWING NOTES

CONSTRUCTION RECORD DRAWINGS WILL BE REQUIRED FOR ALL STORMWATER MANAGEMENT FACILITIES AND ANY WORK IN THE RIGHT-OF-WAY. REFER TO CHAPTER 6 OF THE SUFFOLK PUBLIC FACILITIES MANUAL (PFM) FOR SUBMISSION INSTRUCTIONS.

UPON CONSTRUCTION COMPLETION, ALL STORMWATER PIPE INSTALLED IN THE RIGHT-OF-WAY SHALL BE DOCUMENTED BY MEANS OF CLOSED-CIRCUIT VIDEO RECORDING. THE DEPARTMENT OF PUBLIC WORKS SHALL BE GIVEN AT LEAST A 72 HOUR NOTICE (CONTACT JASON TRIMYER AT 757-514-7704) PRIOR TO THE CLOSED-CIRCUIT VIDEO DOCUMENTATION OCCURRING. REFER TO CHAPTER 6 OF THE SUFFOLK PUBLIC FACILITIES MANUAL (PFM) FOR DETAILS AND FURTHER REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE THE CITY OF SUFFOLK DEPARTMENT OF PUBLIC UTILITIES A COMPLETE SET OF AS BUILT DRAWINGS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE SUFFOLK PUBLIC FACILITIES MANUAL, VOLUME II.

# SIGNATURE BLOCK FOR CITY USE

DIRECTOR OF PLANNING

DATE

HILAL TH DANIEL E. Lic. No. ( 30, 11/29/2 55 JONAL	QAT RUBY A3841 2027 ENGINER ENGINER	
THIS DRAWING PREPARED AT THE <b>VIRGINIA BEACH OFFICE</b> 2901 S. Lynnhaven Road Suite 200   Virginia Beach, VA 23452 TEL 757.213.6679 FAX 757.340.1415 www.timmons.com	REVISION DESCRIPTION	
YOUR VISION ACHIEVED THROUGH OURS.	DATE 11/29/2021	
ROUDEN.	C. HERON DESIGNED BY C. HERON CHECKED BY D. RUBY SCALE AS SHOWN NOISANANAN COLES BIELD CONVERSION COVER SHEEL	d documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for
	JOB NO. 49297 SHEET NO. <i>C-0.0</i>	hese plans and associat

GF	RADING AND DRAINAGE NOTES	С	V
1. 2.	THE OWNER/DEVELOPER SHALL CONTRACT WITH A REPUTABLE AND QUALIFIED GEOTECHNICAL ENGINEERING FIRM TO PROVIDE SOILS INSPECTIONS, TESTING, AND RECOMMENDATIONS DURING CONSTRUCTION. THE SITE CONTRACTOR SHALL FOLLOW THE EARTHWORK STANDARDS PROVIDED IN THE PROJECT SPECIFICATIONS, THE RECOMMENDATIONS OF THE SITE GEOTECHNICAL ENGINEER, AND THE PROJECT	1. 2.	S C A S
3.	GEOTECHNICAL REPORT AT ALL TIMES DURING CONSTRUCTION. ALL AREAS, <u>ESPECIALLY THE SUBGRADE BELOW THE FIELD</u> , SHALL BE GRADED FOR POSITIVE DRAINAGE AS		R
4.	SHOWN ON THE PLANS. POSITIVE DRAINAGE IS CRITICAL TO THE PROJECT. TEMPORARY DRAINAGE DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR TO RELIEVE AREAS		
5.	THAT EXPERIENCE PONDING OR COULD CAUSE DAMAGE TO LIFE, SAFETY, AND PROPERTY. ALL FILL MATERIAL SHALL BE VOID OF DEBRIS AND PLACED IN UNIFORM LIFTS (6" MAXIMUM) OR AS SPECIFIED BY		
6.	THE SITE GEOTECHNICAL ENGINEER AND/OR SITE-SPECIFIC GEOTECHNICAL REPORT. COMPACT SUBGRADE TO 95% OF STANDARD PROCTOR THEORETICAL MAXIMUM DRY DENSITY (ASTM D-698).		
7.	COMPACTION SHALL BE PERFORMED BY HEAVY COMPACTION EQUIPMENT AS SPECIFIED BY THE SITE GEOTECHNICAL ENGINEER AND/OR SITE-SPECIFIC GEOTECHNICAL REPORT	3	т
8.	SITE PREPARATION, INCLUDING FILL PLACEMENT AND COMPACTION, SHOULD BE OBSERVED BY A QUALIFIED SOILS TECHNICIAN WORKING UNDER THE DIRECTION OF THE SITE GEOTECHNICAL ENGINEER. DURING FILL PLACEMENT, A SUFFICIENT AMOUNT OF IN-PLACE DENSITY TESTS SHOULD BE CONDUCTED TO CONFIRM THAT COMPACTION AND FILL MOISTURE IS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SITE GEOTECHNICAL ENGINEER AND/OR SITE SPECIFIC GEOTECHNICAL REPORT	0.	L A
9.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TEST RESULTS BY A GEOTECHNICAL ENGINEER TO THE OWNER FOR VERIFICATION OF PROPER COMPACTION.		
10.	WHEN MATERIAL UNSUITABLE FOR FOUNDATION, SUBGRADES, OR OTHER PURPOSES OCCURS WITHIN THE LIMITS		
	OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL AND BACKFILL WITH APPROVED SUITABLE MATERIAL. THE EXTENT OF UNDERCUTTING AND BACKFILLING IS TO BE DETERMINED BY THE OWNER'S SOILS ENGINEERING CONSULTANT. THE USE OF OPEN-GRADED STONE AND/OR GEOGRID REINFORCEMENT MATERIALS IS OFTEN RECOMMENDED BASED ON OBSERVATIONS OF THE GEOTECHNICAL ENGINEER AT THE TIME OF CONSTRUCTION.	4	т
11.	ALL OBJECTIONABLE, HAZARDOUS, AND/OR DELETERIOUS MATERIAL ENCOUNTERED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A STATE-APPROVED FACILITY MEETING THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.	4.	U D R
12.	EXCAVATED SOIL CAN BE STOCKPILED ONSITE PROVIDED IT IS CLEAN AND FREE FROM DEBRIS, ORGANIC MATTER, HAZARDOUS MATERIAL, AND CONTAMINATION. THE LOCATION OF THE PERMANENT STOCKPILE IS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS AND SHALL BE CONFIRMED WITH THE OWNER PRIOR TO EXCAVATION.	5.	T E T R
13.	TOPSOIL THAT IS REMOVED FROM THE PROJECT CAN BE RE-USED TO RESTORE GRASS AREAS THAT ARE DISTURBED DURING CONSTRUCTION AND/OR TO ESTABLISH GROUND COVER ON THE PERMANENT STOCKPILE.	6.	к  ]
14.	ALL STORM DRAINAGE IMPROVEMENTS AND FACILITIES SHALL BE INSTALLED AS SOON AS FEASIBLE IN THE CONSTRUCTION SCHEDULE.		L
15. 16	UNDERGROUND STORM SEWER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) STANDARDS AND SPECIFICATIONS, AND THE LATEST EDITION OF THE CITY OF SUFFOLK PUBLIC FACILITIES MANUAL - VOLUME I.	7.	E C IN
10.	<ul> <li>N-12 HIGH-DENSITY POLYETHYLENE (HDPE) PIPE WITH SMOOTH WALL INTERIOR</li> <li>SCHEDULE 40/80 POLYVINYL CHLORIDE (PVC) PIPE, AS SHOWN ON THE PLANS.</li> </ul>	0	F F
17.	THE CONTRACTOR SHALL INSTALL PIPES, FITTINGS, AND OTHER STORM DRAINAGE COMPONENTS IN DRY TRENCH CONDITIONS AND IN ACCORDANCE WITH THE MANUFACTURER'S AND GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. THE CONTRACTOR SHALL PROVIDE ALL DE-WATERING, WELL POINTING, SHEETING, TRENCH ROVES, AND TRENCH STADIU ZATION AS RECUMPED AT NO ADDITIONAL COST TO THE OWNED (DE)	9.	י כ ד
18.	STORM STRUCTURES SHALL CONFORM TO THE CURRENT VDOT ROAD AND BRIDGE STANDARDS AND VDOT SPECIFICATIONS. ALL STRUCTURES SHALL INCLUDE INLET SHAPING (IS-1) AND STRUCTURES DEEPER THAN 4-FEET SHALL HAVE STEPS (ST-1). STORM SEWER PIPE BEDDING SHALL BE IN ACCORDANCE WITH VDOT STANDARD "PB-1". THE MANUFACTURER'S GUIDELINES. AND THE THE DETAILS SHOWN ON THESE PLANS.	10. 11	ם ד ד
19.	ALL THERMOPLASTIC, HDPE, PE, AND NON-CONCRETE PIPE JOINTS AND CONNECTIONS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SUPPLIED BY THE MANUFACTURER AND SHOWN ON THE PLAN. WHEN CONNECTING TO DRAINAGE STRUCTURES (PRE-CAST, CAST-IN-PLACE, CONCRETE BLOCK, BRICK, ETC.), ALL PIPES MUST BE INSTALLED IN ACCORDANCE WITH ASTM AND VDOT REQUIREMENTS TO ELIMINATE THE POTENTIAL FOR SHEAR FAILURE TO BE SOIL TIGHT, AND LEAK RESISTANT (ELEXIBLE CONNECTORS)	12. 13.	D C T E
20.	CONSTRUCTION STAKEOUT FOR STORM SEWER INFRASTRUCTURE SHALL BE PERFORMED BY A VIRGINIA	14.	₽ F
21.	ALL ON-SITE STORM DRAINS AND PIPES WITHIN THE PROJECT LIMITS SHALL BE VACUUMED CLEAN AFTER THE SITE HAS BEEN PERMANENTLY STABILIZED. THE CONTRACTOR SHALL DISPOSE OF SEDIMENT, TRASH, AND DEBRIS IN A LAWFUL MANNER.	15.	T C
22.	THE STONE SECTION BELOW THE TURF FIELD SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN A MANNER THAT PERMITS THE REQUIRED INFILTRATION RATE. INFILTRATION TESTS SHALL BE PERFORMED ON THE STONE USING <u>BSI-7044 METHOD #4 - "DUAL RING INFILTROMETER TEST"</u> TO ENSURE A MINIMUM PERMEABILITY OF 20 INCHES PER HOUR IS PROVIDED ACROSS THE FIELD. THIS TEST SHALL	10.	י ת ר
23.	BE PERFORMED BY OWNER'S REPRESENTATIVE. THE TURF FIELD SHALL BE GRADED TO ELIMINATE LOCALIZED LOW SPOTS AND DEPRESSIONS.	18. 19	T
DF	MOLITION AND ABANDONMENT NOTES		, C F T
1	THE CONTRACTOR SHALL STRICTLY ADHERE TO THE LIMITS OF DISTURBANCE, SAWCUT LIMITS, AND PERIMETER	20.	T
	SILT FENCE AS SHOWN ON THE APPROVED PLANS. IF IT IS NECESSARY TO PERFORM WORK BEYOND THE LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND COORDINATE THE WORK PRIOR TO COMMENCING CONSTRUCTION.	21.	C A
2.	SAWCUTTING SHALL BE PERFORMED ON EDGES OF PAVEMENT AND CONCRETE DEMOLITION.	22.	A F
3.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING (WITH MATCHING MATERIALS) PAVEMENT, DRIVEWAYS, SIDEWALKS, SIGNS, PAVEMENT MARKINGS, LIGHT POLES, CURBS, CONCRETE, FENCES, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION. CONCRETE SIDEWALKS, CURBS, OR ENTRANCES THAT ARE DAMAGED SHALL BE REPLACED TO THE NEAREST UNDISTURBED JOINT.	23. 24.	T N F
4.	THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO VERIZON, CHARTER COMMUNICATIONS, COLUMBIA GAS OF VIRGINIA, AND DOMINION ENERGY TO RELOCATE AND/OR REMOVE EXISTING UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS.	25.	F 1 C
5.	PIPE DEMOLITION SHALL BE PERFORMED IN ACCORDANCE WITH THE DEMOLITION PLAN. WHEN PIPES ARE REMOVED FROM DRAINAGE STRUCTURES, THE FORMER PENETRATIONS MUST BE PATCHED AND SEALED TO BE WATERTIGHT.	26. 27.	N C
6.	PIPES THAT ARE FILLED WITH FLOWABLE FILL SHALL BE MONITORED BY THE SITE GEOTECHNICAL ENGINEER TO ENSURE THAT THE PIPES ARE SEALED AT BOTH THE UPSTREAM AND DOWNSTREAM STRUCTURES.	28.	(     
		29.	A S
		30. 31.	TI S K
		32	М т
		33.	T

# CIVIL PROJECT GENERAL NOTES

UBMITTALS ON MATERIALS FOR THIS PROJECT SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL PRIOR TO DRDERING MATERIALS AND BEGINNING CONSTRUCTION.

ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THESE CIVIL SITE PLANS, PROJECT PECIFICATIONS, AND WITH ALL CURRENT APPLICABLE CODES AND THE LATEST REVISIONS OF THE FOLLOWING EFERENCE DOCUMENTS:

- A. HAMPTON ROADS PLANNING DISTRICT COMMISSION (HRPDC) REGIONAL CONSTRUCTION STANDARDS
- B. VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS C. VDOT ROAD AND BRIDGE STANDARDS
- D. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- E. VIRGINIA WORK AREA PROTECTION MANUAL
- F. VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH)
- G. CITY OF SUFFOLK PUBLIC FACILITIES MANUAL VOLUME I (PFM-VI) H. CITY OF SUFFOLK PUBLIC FACILITIES MANUAL - VOLUME II (PFM-VII)

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS AND REQUIREMENTS OF THE OVERHEAD HIGH VOLTAGE INES SAFETY ACT (SECTION 59.1-406, ET. SEQ. OF THE CODE OF VIRGINIA) IN PERFORMING WORK ON THIS PROJECT. AS MINIMUM:

3.1. CONTACT THE ELECTRICAL UTILITY 48 HOURS PRIOR TO COMMENCING WORK IF THE CONTRACTOR'S TOOLS OR MATERIALS WILL INTRUDE TO WITHIN TEN (10) FEET OF AN OVERHEAD POWER LINE.

- 3.2. CONTACT THE ELECTRICAL UTILITY 48 HOURS PRIOR TO COMMENCING WORK IF COVERED EQUIPMENT SUCH AS CRANES OR DERRICKS WILL BE OPERATED WITHIN TEN (10) FEET OF AN OVERHEAD POWER LINE.
- 3.3. POST AND MAINTAIN WARNING SIGNS WITHIN AND ON THE OUTSIDE OF EQUIPMENT OPERATING NEAR AN OVERHEAD HIGH VOLTAGE LINE.
- 3.4. COORDINATE WITH THE UTILITY OWNER SHOULD THE CONTRACTOR'S EXCAVATION ACTIVITIES REQUIRE SHORING AND BRACING OF EXISTING UTILITY POLES. DOMINION ENERGY SHALL BE NOTIFIED TEN (10) WORKING DAYS BEFORE ANTICIPATED SHORING AND BRACING ACTIVITIES COMMENCE. ALL SHORING AND BRACING ACTIVITIES SHALL BE ACCOMPLISHED BY DOMINION ENERGY PERSONNEL AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO INDERGROUND UTILITY CONNECTION POINTS, RECEIVING PIPE SIZES, INVERTS, AND PIPE MATERIALS. ALL ERRORS AND DISCREPANCIES WITH THE PLANS OR EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER OR SURVEYOR OF RECORD BEFORE PROCEEDING WITH THE WORK.

THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. OTHER XISTING UTILITIES MAY BE PRESENT. INFORMATION HAS BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES AT THE IME OF SURVEY BUT IS NOT REPRESENTED AS BEING COMPLETE AND ACCURATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN.

T IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES AND UNDERGROUND TRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS UTILITY (811) FOR EXISTING UTILITY OCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. DAMAGE TO EXISTING UTILITIES AND NDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEVELOPER.

XISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. IF EXISTING UTILITIES ARE FOUND TO BE IN CONFLICT WITH PROPOSED SITE IPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, OWNER, AND THE UTILITY COMPANY TO ITHER REDESIGN THE PROPOSED IMPROVEMENTS OR RELOCATE THE EXISTING UTILITIES. ANY UTILITIES TO BE RELOCATED SHALL BE RELOCATED AT THE OWNER/DEVELOPER'S EXPENSE, INCLUDING UTILITIES WITHIN THE RIGHT-OF-WAY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION EFFORTS WITH DOMINION ENERGY, COLUMBIA GAS OF VIRGINIA, VERIZON, CHARTER COMMUNICATIONS, SUFFOLK PUBLIC WORKS, SUFFOLK PUBLIC SCHOOLS, AND THER ENTITIES AS REQUIRED.

THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF THE APPROVED PLANS AT THE PROJECT SITE AT ALL TIMES URING CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ON SITE URING CONSTRUCTION.

THE CONTRACTOR SHALL SATISFY HIMSELF AS TO ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.

URING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEAN WORK SITE AND REMOVAL OF CONSTRUCTION DEBRIS AND MATERIALS.

THE CONTRACTOR SHALL USE ONLY NEW MATERIALS, PARTS, AND PRODUCTS ON THIS PROJECT. ALL MATERIALS SHALL E STORED SO AS TO ENSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK.

ALL STAGING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE ONSITE. NO VEHICLES WILL BE ALLOWED TO ARK WITHIN THE TRAVEL LANES OR SHOULDERS OF ANY PUBLIC STREET.

HE CONTRACTOR'S LAYDOWN & STORAGE AREA IS LIMITED TO THE AREA WITHIN THE SITE CONSTRUCTION LIMITS. COORDINATE EXACT LOCATIONS WITH THE OWNER.

ALL SALVAGEABLE ITEMS REMOVED AND NOT USED REMAIN THE PROPERTY OF THE OWNER.

ATERIALS, EQUIPMENT, PRODUCTS, AND METHODS OTHER THAN THOSE INDICATED IN THE DRAWINGS SHALL NOT BE CONSIDERED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE, DESIGN ENGINEER, AND HE APPLICABLE GOVERNING CODE AUTHORITY IF NECESSARY.

HE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND STATE SAFETY ORDERS AT ALL TIMES.

ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO PAVEMENT, SHOULDERS, DITCHES, HEADWALLS, ENDWALLS, CULVERT PIPES, FENCES, CURB AND GUTTER, UTILITIES, DRIVEWAYS, LIGHT POLES, SIGNS, MAILBOXES, ETC. SHALL BE REPAIRED TO A CONDITION EQUAL TO OR BETTER THAN THOSE EXISTING PRIOR TO CONSTRUCTION, OR AS SHOWN ON HE DRAWINGS. SIGNS AND MAILBOXES THAT ARE DISTURBED SHALL BE RETURNED TO THEIR ORIGINAL LOCATIONS AILY, AND MAINTAINED THROUGHOUT THE PROJECT.

THE CONTRACTOR SHALL REESTABLISH ALL PROPERTY PINS AND MONUMENTS DISTURBED DURING CONSTRUCTION AT O ADDITIONAL COST TO THE DEVELOPER.

DNSITE EXTERIOR CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI (28-DAYS) WITH 5% TO 7% AIR ENTRAINMENT, UNLESS OTHERWISE NOTED.

LL PROPOSED PAVING SURFACES SHALL MEET ADJACENT PAVING SURFACES IN A SMOOTH CONTINUOUS MANNER, LUSH ALONG ENTIRE COMMON EDGE.

THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS TO ALL UTILITY SPLICE BOXES, JUNCTION BOXES, ETER BOXES, VALVE BOXES, ELECTRICAL SPLICE BOXES, MANHOLES, CLEANOUTS, AND OTHER ITEMS TO MATCH INISHED GRADE.

LL RADII INDICATED SHALL HAVE CONTINUOUS/SMOOTH TRANSITIONS WITHOUT ABRUPT CHANGES, BENDS, OR ACETED EDGES. ALL RADIAL DIMENSIONS ARE TO THE EDGE OF CONCRETE UNLESS OTHERWISE NOTED.

HE CONTRACTOR SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES FOUND SHALL BE CALLED TO THE ATTENTION THE OWNER'S REPRESENTATIVE AND BE RESOLVED BEFORE PROCEEDING WITH ANY WORK. DIMENSIONS TAKE RECEDENCE OVER SCALE.

OTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.

TY OF SUFFOLK FLOOD CERTIFICATION: THE PROPERTY SHOWN HEREON APPEARS TO FALL WITHIN FLOOD ZONE "X" UNSHADED) ACCORDING TO THE F.E.M.A. FLOOD INSURANCE RATE MAP (F.I.R.M.) FOR THE CITY OF SUFFOLK, VIRGINIA. AP NUMBER: 5101560210D, MAP REVISED: NOVEMBER 16, 2011.

ALL CLEARING, GRUBBING AND GRADING SHALL BE PERFORMED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND TANDARDS.

ALL UNPAVED SURFACES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE GRADED TO DRAIN, TOPSOILED, EEDED, MULCHED, AND FERTILIZED.

HE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL CONSTRUCTION SURVEYING REQUIRED.

AW CUTTING OF EXISTING CONCRETE AND ASPHALT PAVING SHALL COMPLY WITH OSHA. THE CONTRACTOR SHALL EEP DUST TO A MINIMUM AND SHALL BE RESPONSIBLE FOR THE DAMAGE TO AND REPLACEMENT OF ADJACENT ATERIALS AND FINISHES.

HE CONTRACTOR SHALL INSTALL SIGNAGE IN AREAS THAT ARE RESTRICTED TO THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE LIGHTING THROUGHOUT THE CONSTRUCTION AREA IF WORK IS TO BE PERFORMED AFTER DARK. THE EXISTING STADIUM LIGHTS ARE ACCEPTABLE FOR ILLUMINATING THE FOOTBALL FIELD. THE CONTRACTOR SHALL COORDINATE WORK HOURS AND LIGHTING USAGE WITH THE OWNER.

DANIEL E. RUBY Lic. No. 043841 TBOMESSIONAL ENGINER				
THIS DRAWING PREPARED AT THE <b>VIRGINIA BEACH OFFICE</b> 2901 S. Lynnhaven Road Suite 200   Virginia Beach, VA 23452 TEL 757.213.6679 FAX 757.340.1415 www.timmons.com	REVISION DESCRIPTION			
YOUR VISION ACHIEVED THROUGH OURS.	E CATE 11/29/2021 DRAWN BY			
	C. HERON DESIGNED BY C. HERON CHECKED BY D. RUBY SCALE NO SCALE			
D D	CITY OF SUFFOLK, VIRGINIA HOLY NECK BOROUGH			
	LAKELAND HIGH SCHOOL TURF FIELD CONVERSION CIVIL PROJECT NOTES	UP and may not be reproduced in whole or in part and shall not be used for		
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	C-0.1	These		



ANALYSIS POINT	DRAINAGE AREA
#1 (ST1.0)	2.50 AC
#2 (ST2.0)	1.27 AC
	<u>.</u>



![](_page_4_Figure_0.jpeg)

## SURVEY LEGEND

![](_page_4_Figure_2.jpeg)

# **EROSION AND SEDIMENT CONTROL NARRATIVE**

## PROJECT DESCRIPTION

THIS PROJECT PROPOSES IMPROVEMENTS TO THE EXISTING ATHLETIC FACILITIES AT LAKELAND HIGH SCHOOL, LOCATED AT 214 KENYON ROAD IN SUFFOLK, VIRGINIA. SPECIFICALLY, THE PROJECT WILL CONVERT THE EXISTING GRASS FOOTBALL FIELD TO A SYNTHETIC TURF FIELD; REPLACE THE LONG AND TRIPLE JUMP EVENTS; AND REPLACE THE FOOTBALL GOAL POSTS. THE EXISTING RUNNING TRACK AND HIGH JUMP PAD WERE RECENTLY MILLED AND OVERLAID AND RECEIVED NEW RUBBER SURFACING. IT IS CRITICAL THAT THE TURF FIELD CONTRACTOR PROTECTS THE NEW RUBBER SURFACE DURING CONSTRUCTION.

THE SYNTHETIC TURF FIELD WILL INCLUDE A STONE STORAGE LAYER UNDER THE ENTIRE FOOTPRINT OF THE FIELD, AS WELL AS A DEEPER STONE STORAGE PIT FOR MANAGING STORMWATER QUANTITY. THE TURF FIELD, WHILE CONSIDERED AN IMPERVIOUS SURFACE, WILL ALSO FUNCTION AS A PERMEABLE PAVEMENT SYSTEM (DESIGN LEVEL 1) FOR ADDRESSING STORMWATER QUALITY CRITERIA.

THE SUBJECT PROPERTY IS ZONED RLM (RESIDENTIAL LOW-MEDIUM DISTRICT) WHICH PERMITS PUBLIC SCHOOL USAGES BY-RIGHT. THE PROPERTY IS APPROXIMATELY 69.49 ACRES, OF WHICH 4.03 ACRES WILL BE DISTURBED, CONSTRUCTION ACTIVITIES ARE NOT ANTICIPATED NOR PROPOSED IN THE PUBLIC RIGHT-OF-WAY OR ADJACENT PRIVATE PROPERTIES. CONSTRUCTION IS EXPECTED TO BEGIN IN NOVEMBER 2021 AND LAST APPROXIMATELY FIVE MONTHS.

## **ADJACENT AREAS**

THE PROPERTY IS BOUNDED BY UNDEVELOPED LAND TO THE NORTH AND WEST, AND SINGLE-FAMILY RESIDENTIAL HOMES TO THE EAST AND SOUTH. KENYON ROAD IS LOCATED TO THE EAST OF THE SCHOOL ON THE OTHER SIDE OF THE SINGLE-FAMILY HOMES.

## **EXISTING CONDITIONS**

THE SUBJECT PROPERTY CURRENTLY CONSISTS OF THE HIGH SCHOOL BUILDING, ASPHALT PARKING LOTS, TENNIS COURTS, AND GRASS FIELDS FOR FOOTBALL, BASEBALL, SOFTBALL, AND FIELD HOCKEY. THE SCHOOL BUILDING, TENNIS COURTS, AND PARKING LOTS ARE SITUATED ON THE EASTERN SIDE OF THE PROPERTY WHEREAS THE SPORTS FIELDS AND TRACK ARE LOCATED ON THE WEST SIDE BEHIND THE SCHOOL. THE FOOTBALL FIELD IS LOCATED IN THE NORTHWEST CORNER OF THE SITE ADJACENT TO THE UNDEVELOPED (WOODED) PROPERTY. ELEVATIONS WITHIN THE PROJECT AREA RANGE FROM 66 TO 69 (NAVD88) WITH SLOPES GENERALLY RANGING BETWEEN 1% AND 3%. THE SITE IS LOCATED WITHIN FEMA FLOOD ZONE 'X' (UNSHADED) OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP (FIRM) 5101560210D, EFFECTIVE 11/16/2011.

THE EXISTING FOOTBALL FIELD IS SURROUNDED BY A DEEP NATURAL DITCH THAT ABUTS THE WESTERN AND NORTHERN PROPERTY LINES. DRAINAGE FROM THE FIELD IS CURRENTLY HANDLED BY TWO SEPARATE STORM SEWER SYSTEMS, BOTH OF WHICH OUTFALL TO THE DITCH. THE SYSTEM TO THE WEST CONSISTS OF FIVE YARD DRAINS, INCLUDING **ST1.0** IN THE SOUTHWEST CORNER, AND RECEIVES APPROXIMATELY 2.50 ACRES OF DRAINAGE. THE SYSTEM TO THE EAST CONSISTS OF THREE YARD DRAINS, INCLUDING ST2.0 IN THE SOUTHEAST CORNER, AND RECEIVES APPROXIMATELY 1.27 ACRES OF DRAINAGE. THE WESTERN SYSTEM IS APPROXIMATELY 2-FEET DEEPER THAN THE EASTERN SYSTEM. DRAINAGE FROM THE PROJECT SITE IS CONVEYED THROUGH THE DITCH TO THE SPEIGHTS RUN RESERVOIR, WHICH CONNECTS TO LAKE KILBY AND THE NANSEMOND RIVER, AND ULTIMATELY TO THE CHESAPEAKE BAY.

## **OFFSITE AREAS**

CONSTRUCTION ACTIVITIES WILL BE LIMITED TO THE SUBJECT PROPERTY. CONSTRUCTION ACTIVITIES ARE NOT ANTICIPATED NOR PROPOSED IN THE PUBLIC RIGHT-OF-WAY OR ADJACENT PRIVATE PROPERTIES. ANY MATERIALS THAT ARE DISPOSED OFFSITE SHALL BE TRANSPORTED IN A LAWFUL AND SAFE MANNER, AND DELIVERED TO A CONTROLLED FACILITY IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

#### SOIL PROPERTIES

TIMMONS GROUP ENVIRONMENTAL SCIENTISTS PERFORMED A SOILS AND GROUNDWATER INVESTIGATION TO BENEFIT THIS PROJECT. FOUR SHALLOW BORINGS WERE DRILLED WITHIN THE EXISTING FOOTBALL FIELD TO EVALUATE THE PRESENCE OF A SEASONAL-HIGH GROUNDWATER TABLE OR RESTRICTIVE SOIL LAYERS. THE INVESTIGATION SHOWED EVIDENCE OF THE SEASONAL-HIGH GROUNDWATER TABLE AT APPROXIMATELY 2-FEET BELOW EXISTING GRADE, CORRESPONDING TO AN AVERAGE ELEVATION OF 65.4. IN ADDITION, THE STUDY SHOWED THAT THE SOILS ARE MODERATELY WELL-DRAINED WITH HYDROLOGIC SOIL GROUPS (HSG) RANGING FROM "B" TO "C".

ACCORDING TO THE "WEB SOIL SURVEY" PROVIDED BY THE NATURAL RESOURCE CONSERVATION SERVICE (NRCS), THE EXISTING SITE HAS THE FOLLOWING SOIL CHARACTERISTICS:

MAP UNIT: 8A	EUNOLA LOAMY FINE SAND	0 TO 2 PERCENT SLOPES	HSG C
MAP UNIT: 8B	EUNOLA LOAMY FINE SAND	2 TO 6 PERCENT SLOPES	HSG C
MAP UNIT: 14	LYNCHBURG FINE SANDY LOAM		HSG B
MAP UNIT: 22B	SUFFOLK LOAMY SAND	2 TO 6 PERCENT SLOPES	HSG B

#### **CRITICAL AREAS**

THIS PROJECT DOES NOT IMPACT ANY KNOWN CRITICAL AREAS.

## STORMWATER CONSIDERATIONS

THIS PROJECT WILL REPLACE THE EXISTING GRASS FOOTBALL FIELD WITH A SYNTHETIC TURF FIELD. THE TURF FIELD IS CONSIDERED IMPERVIOUS FOR BOTH STORMWATER QUANTITY AND QUALITY PURPOSES.

THE TURF FIELD FUNCTIONS AS A STORMWATER MANAGEMENT FACILITY AND WILL CONTAIN A 6-INCH THICK STONE STORAGE LAYER ACROSS THE ENTIRE FOOTPRINT. IN ADDITION, A DEEP STONE STORAGE PIT WILL BE INSTALLED UNDER THE MIDDLE OF THE FIELD TO PROVIDE NEARLY 30,000 CF OF EXTRA STORAGE. THE STONE UNDER THE FIELD WILL BE INTERCONNECTED WITH THE STORAGE PIT TO FUNCTION TOGETHER AS ONE LARGE UNDERGROUND DETENTION SYSTEM. A NETWORK OF PERIMETER COLLECTOR DRAINS AND FLAT PANEL DRAINS WILL BE USED TO DIRECT THE WATER UNDER THE FIELD TO THE STONE STORAGE PIT.

THE STONE STORAGE PIT WILL CONTAIN A 10" UNDERDRAIN AT THE BASE OF THE FACILITY, WHICH REDUCES TO A 4" SCHEDULE 80 PVC PIPE (INTERNAL DIAMETER = 3.83") TO SERVE AS THE LOW-FLOW ORIFICE. IT WILL ALSO CONTAIN A 10" OVERFLOW DRAIN APPROXIMATELY 2.6-FEET ABOVE THE BOTTOM. THE UNDERDRAIN CONNECTS TO STORM STRUCTURE ST1.0 IN THE SOUTHWEST CORNER OF THE FIELD SINCE THAT STRUCTURE IS DEEPEST. THE OVERFLOW DRAIN CONNECTS TO BOTH ST1.0 AND ST2.0.

## CHANNEL PROTECTION CRITERIA

ANALYSIS POINT #1 (STORM DRAIN ST1.0): CHANNEL PROTECTION CRITERIA ARE SATISFIED BY MEANS OF THE ENERGY BALANCE EQUATION USING A 1-YEAR, 24-HOUR STORM FOR COMPARISON PURPOSES AND A 20% IMPROVEMENT FACTOR. THE STONE STORAGE PIT AND 4" LOW FLOW ORIFICE FUNCTION TOGETHER TO MINIMIZE THE FLOW RATE DURING THIS STORM EVENT AND SATISFY THE EQUATION.

ANALYSIS POINT #2 (STORM DRAIN ST2.0): THIS STRUCTURE DOES NOT EXPERIENCE FLOWS DURING THE 1-YEAR, 24-HOUR STORM BECAUSE THE WATER LEVEL IN THE STONE STORAGE PIT DOES NOT RISE TO THE LEVEL OF THE OVERFLOW DRAIN (WATER LEVEL = 64.85, OVERFLOW DRAIN INVERT = 64.90). CHANNEL PROTECTION CRITERIA ARE SATISFIED BECAUSE NO FLOW IS EXPERIENCED, THEREBY MEETING THE ENERGY BALANCE EQUATION.

#### FLOOD PROTECTION CRITERIA

FLOOD PROTECTION CRITERIA ARE SATISFIED BY REDUCING THE PEAK FLOW DURING THE 10-YEAR, 24-HOUR STORM TO LESS THAN THE PRE-DEVELOPMENT RATE. DURING THIS STORM, FLOWS ARE CONVEYED TO BOTH STRUCTURES ST1.0 AND ST2.0 THROUGH THE 10" OVERFLOW DRAIN. IT IS ASSUMED THAT THE TOTAL REPORTED OUTFLOW IS SHARED EQUALLY BETWEEN THE TWO STORM DRAINS. EACH STRUCTURE RECEIVES HALF OF THE TOTAL PEAK FLOW, WHICH IS SIGNIFICANTLY LESS THAN THEIR RESPECTIVE PRE-DEVELOPMENT FLOW RATES.

#### STORMWATER QUALITY

THE PROPOSED TURF FIELD IS CONSIDERED IMPERVIOUS FOR STORMWATER QUALITY PURPOSES, BUT THE FIELD IS ALSO CONSIDERED A "PERMEABLE PAVEMENT" SYSTEM (DESIGN LEVEL 1) AND EARNS POLLUTANT REMOVAL CREDIT. THE TURF FIELD (PERMEABLE PAVEMENT) WILL TREAT THE RAINWATER THAT FALLS DIRECTLY ON THE FIELD SURFACE AS WELL AS THE RUNOFF FROM THE ADJACENT RUNNING TRACK, ASPHALT SIDEWALKS, HIGH JUMP PAD, AND LONG/TRIPLE JUMP. ACCORDING TO THE VIRGINIA RUNOFF REDUCTION METHOD (VRRM) SPREADSHEET, THE REQUIRED POLLUTANT REMOVAL RATE IS 4.12 LB/YR AND THE TURF FIELD WILL TREAT 4.37 LB/YR. THIS RESULTS IN 0.25 LB/YR OF EXCESS CREDITS THAT COULD BE USED ELSEWHERE BY SUFFOLK PUBLIC SCHOOLS.

#### EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH), 3RD/ EDITION. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE. THE FOLLOWING MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN ON THE EROSION AND SEDIMENT CONTROL SHEETS IN THE CIVIL SITE PLANS:

TEMPORARY CONSTRUCTION ENTRANCE - STD. & SPEC. 3.02 A TEMPORARY STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS SET FORTH IN THE VESCH. THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED IN THE LOCATION SHOWN ON THE SITE PLANS DURING THE INITIAL PHASES OF CONSTRUCTION.

CONSTRUCTION ROAD STABILIZATION - STD. & SPEC. 3.03 THE CONTRACTOR SHALL STABILIZE THE TEMPORARY ACCESS ROAD LEADING TO THE PERMANENT SOIL STOCKPILE WITH STONE OR OTHER PROPRIETARY MATERIALS (I.E. PLASTIC MATS) PRIOR TO COMMENCING EARTHWORK ACTIVITIES.

#### SILT FENCE - STD. & SPEC. 3.05

TEMPORARY SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED AROUND THE LIMITS OF DISTURBANCE. OUTSIDE THE FOOTBALL FIELD, TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE. TWO (2) LAYERS OF SILT FENCE SHALL BE INSTALLED AROUND SOIL STOCKPILES

#### STORM DRAIN INLET PROTECTION - STD. & SPEC. 3.07

ALL STORM DRAIN INLETS WITHIN THE PROJECT DISTURBED AREA AND IMMEDIATE VICINITY SHALL BE PROTECTED DURING CONSTRUCTION. INLET PROTECTION SHALL BE INSTALLED ON ALL EXISTING INLETS TO REMAIN AND SHALL BE PRESERVED ON THE INLETS WITHIN THE TRACK ENVELOPE UNTIL THE NEW DRAINAGE SYSTEM IS INSTALLED AND THE INLETS ARE FILLED WITH FLOWABLE FILL OR REMOVED.

#### DEWATERING STRUCTURE - STD. & SPEC. 3.26

DEWATERING STRUCTURES SHALL BE USED WHENEVER SEDIMENT-LADEN WATER MUST BE REMOVED FROM THE CONSTRUCTION AREA BY MEANS OF PUMPING. THE DEWATERING STRUCTURE SHALL CONFORM TO VDOT STANDARD "EC-8" AS SHOWN ON SHEET C-2.3.

#### TOPSOILING (SOIL STOCKPILE) - STD. & SPEC. 3.30

SOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFFSITE SEDIMENT DAMAGE SHALL RESULT. STABILIZE OR PROTECT STOCKPILES IN ACCORDANCE WITH MS-2 OF THE VESCH. PERIMETER CONTROLS MUST BE PLACED AROUND THE STOCKPILE IMMEDIATELY. STOCKPILES SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF THE FORMATION OF THE STOCKPILE, IF IT IS TO REMAIN DORMANT FOR LONGER THAN 14 DAYS. SOIL STOCKPILES SHALL NOT EXCEED 10-FEET IN HEIGHT AND SIDE SLOPES ARE NOT TO EXCEED 3H:1V.

#### TEMPORARY SEEDING - STD. & SPEC. 3.31

ALL DENUDED AREAS THAT WILL REMAIN DORMANT FOR A PERIOD OF TIME GREATER THAN 14 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF VEGETATION WILL BE DEPENDENT ON THE TIME OF YEAR IT IS APPLIED.

## PERMANENT SEEDING - STD. & SPEC. 3.32

ALL DENUDED AREAS THAT ARE TO REMAIN DORMANT FOR A PERIOD OF TIME GREATER THAN 1 YEAR OR MORE ARE TO BE PERMANENTLY-SEEDED. ALL AREAS THAT HAVE REACHED FINAL GRADE ARE TO BE PERMANENTLY SEEDED AS SOON AS FINAL GRADE IS REACHED.

#### MULCHING - STD. & SPEC. 3.35

MULCH WILL BE APPLIED TO ALL SEEDED AREAS TO PROTECT THE SOIL SURFACE FROM RAINDROP IMPACT. REDUCE THE VELOCITY OF OVERLAND FLOW, AND FOSTER THE GROWTH OF VEGETATION

#### SOIL STABILIZATION BLANKETS AND MATTING - STD. & SPEC. 3.36 VDOT EC-2 SOIL STABILIZATION MATTING SHALL BE APPLIED TO THE SIDE SLOPES OF THE PERMANENT STOCKPILE TO LIMIT EROSION POTENTIAL.

TREE PRESERVATION AND PROTECTION - STD. & SPEC. 3.38

TREES OUTSIDE THE LIMITS OF DISTURBANCE SHALL BE SAVED. THE CONTRACTOR SHALL INSTALL HIGH-VISIBILITY PLASTIC FENCING AND/OR CHAIN LINK FENCING AROUND THE TREES TO BE SAVED. THE CONTRACTOR SHALL PROTECT THE ROOTS OF ADJACENT TREES TO BE SAVED TO THE MAXIMUM EXTENT PRACTICAL.

#### DUST CONTROL - STD. & SPEC. 3.39

AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST SHALL BE STABILIZED DURING CONSTRUCTION TO MINIMIZE DUST RELEASE. METHODS INCLUDE BUT ARE NOT LIMITED TO VEGETATIVE COVER. MULCH. OR IRRIGATION.

#### SPECIFICATIONS FOR E&S MEASURES

SPECIFICATIONS FOR ALL E&S MEASURES USED ON THIS PROJECT CAN BE FOUND IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK - 3RD EDITION (VESCH). THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL CONSTRUCTION SPECIFICATIONS, INSTALLATION PROCEDURES, AND MAINTENANCE PROCEDURES AS LISTED IN THE VESCH.

## PERMANENT STABILIZATION

AFTER FINAL GRADE IS ACHIEVED THE SITE SHALL BE PERMANENTLY STABILIZED. SEED SHALL BE APPLIED TO ALL GRASS AREAS PER THE STANDARD AND SPECIFICATION PROVIDED ON THE PLAN SHEETS. OTHER AREAS WILL BE CHARACTERIZED BY IMPERVIOUS PAVEMENT OR SIDEWALKS, AS SHOWN ON THE SITE PLANS, OR ENHANCED WITH TREES, SHRUBS, MULCH, ETC. AS SHOWN ON THE LANDSCAPE PLANS.

## INITIAL PERMITTING

THIS PROJECT WILL REQUIRE A LAND DISTURBANCE PERMIT AND VSMP (VIRGINIA STORMWATER MANAGEMENT PROGRAM) PERMIT PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

## **E&S MAINTENANCE**

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAINFALL EVENT OR WEEKLY, WHICHEVER IS MOST FREQUENT, AND SHOULD BE CLEANED AND REPAIRED ACCORDING TO THE FOLLOWING SCHEDULE:

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAINFALL EVENT OR WEEKLY, WHICHEVER IS MOST FREQUENT, AND SHOULD BE CLEANED AND REPAIRED ACCORDING TO THE FOLLOWING SCHEDULE:

- 1. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PAVED SURFACES AND PUBLIC RIGHTS-OF-WAY. MAINTAIN CONSTRUCTION ENTRANCE IN ACCORDANCE WITH STD. & SPEC. 3.02 OF THE VESCH.
- 2. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND REPAIRED IMMEDIATELY OR REPLACED AS REQUIRED. MAINTAIN SILT FENCE IN ACCORDANCE WITH STD. & SPEC. 3.05 OF THE VESCH.
- INLET PROTECTION MEASURES WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP AND CLOGGING. MAINTAIN INLET PROTECTION IN ACCORDANCE WITH STD. & SPEC. 3.07 OF THE VESCH.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION AS WELL AS SEDIMENT BUILDUP OR CLOGGING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING IMMEDIATE CORRECTIVE ACTIONS.
- 5. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RE-SEEDED AS NEEDED.
- 6. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED AND VEGETATION IS ESTABLISHED. FINAL SITE STABILIZATION SHALL BE APPROVED BY THE CITY CIVIL INSPECTOR.

#### STANDARD E&S NOTE

BASED ON FIELD CONDITIONS DURING THE CITY E&S SITE INSPECTION, ADDITIONAL E&S MEASURES MIGHT BE REQUIRED FOR THIS PROJECT THAT ARE NOT SHOWN ON THIS PLAN. THESE ADDITIONAL E&S MEASURES WILL BE INSTALLED BY THE RESPONSIBLE LAND DISTURBER / CONTRACTOR AT THE EXPENSE OF THE OWNER.

## **E&S MANAGEMENT STRATEGIES**

THE FOLLOWING MANAGEMENT STRATEGIES SHALL BE IMPLEMENTED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR SEDIMENT CONTAMINATION OF DOWNSTREAM WATERWAYS AND CONVEYANCE SYSTEMS, AND TO PRESERVE SURROUNDING FEATURES THAT ARE TO REMAIN UNDISTURBED:

- 1. WHERE CONSTRUCTION VEHICULAR ACCESS ROUTES INTERSECT PAVED ROADWAYS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING AND SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER
- 2. CONSTRUCTION SHALL BE SEQUENCED SO THAT GRADING OPERATIONS AND STORM DRAINAGE INSTALLATION CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- 3. AREAS THAT ARE NOT TO BE DISTURBED SHALL BE CLEARLY MARKED BY FENCING, FLAGS, SIGNS, ETC.
- 4. DURING CONSTRUCTION, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ONSITE, AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE SITE.
- 5. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN FOURTEEN (14) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR. TEMPORARY SEEDING SHALL BE IN COMPLIANCE WITH STD. & SPEC. 3.31 OF THE VESCH.
- 6. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE CITY CIVIL INSPECTOR OR OWNER, IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.
- 7. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE (1) YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.
- 8. PERIODIC INSPECTIONS AND REQUIRED MAINTENANCE MUST BE PROVIDED, ESPECIALLY AFTER EACH SIGNIFICANT STORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
- ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED WHENEVER WATER SEEPS FROM A SLOPE FACE.

# SEQUENCE OF SITE CONSTRUCTION

## PHASE 1 - INITIAL PREPARATION AND DEMOLITION

- 1. SUBMIT AND OBTAIN ALL APPLICABLE PERMITS, INCLUDING BUT NOT LIMITED TO: VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT - LAND DISTURBANCE PERMIT
- 2. HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE CITY AND OWNER.
- CONTACT APPROPRIATE UTILITY COMPANIES AND COORDINATE UTILITY MARKING, RELOCATION AND/OR REMOVAL.
- DO NOT INITIATE ANY LAND DISTURBING ACTIVITIES UNTIL AUTHORIZED TO PROCEED BY THE OWNER
- 5. INSTALL STORM DRAIN INLET PROTECTION AS SHOWN ON THE PHASE 1 E&S PLANS.
- INSTALL PERIMETER SILT FENCE AS SHOWN ON THE PHASE 1 E&S PLANS
- INSTALL CONSTRUCTION ENTRANCE AS SHOWN ON THE PHASE 1 E&S PLANS.
- 8. INSTALL TRACK PROTECTION MEASURES AS SHOWN ON THE PHASE 1 E&S PLANS
- 9. OBTAIN AN EROSION CONTROL INSPECTION FROM THE CITY. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE INSPECTOR.
- 10. ONCE ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, INSPECTED, AND APPROVED BY THE CITY, BEGIN MASS DEMOLITION, STRIPPING, AND CLEARING OPERATIONS. ENSURE RUNOFF IS DIRECTED TOWARDS EROSION CONTROL MEASURES.
- 11. APPLY TEMPORARY SEEDING IMMEDIATELY TO ALL DISTURBED AREAS NOT TO BE BROUGHT TO FINAL GRADE FOR A PERIOD LONGER THAN 14 CALENDAR DAYS. APPLY SEEDING TO STOCKPILE(S).

## **PHASE 2 - SITE CONSTRUCTION AND FINAL STABILIZATION**

- 12. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION IN A MANNER THAT DOES NOT BLOCK ACCESS TO OTHER AREAS OF THE SITE AND INHIBIT WORK FROM PROCEEDING IN A TIMELY FASHION. FOR EXAMPLE, THE CONTRACTOR SHALL START WORKING IN THE AREA OPPOSITE THE CONSTRUCTION ENTRANCE AND PROCEED TOWARDS THE ENTRANCE, TO AVOID BLOCKING SITE ACCESS.
- 13. COMMENCE ROUGH-GRADING OF THE TURF FIELD.
- 14. AS THE SITE IS ROUGH-GRADED, UNDERCUT AND REMOVE UNSUITABLE MATERIALS AND REPLACE WITH SELECT MATERIAL AS NEEDED UNDER THE DIRECTION OF THE SITE GEOTECHNICAL ENGINEER. FOLLOW EARTHWORK RECOMMENDATIONS FROM GEOTECHNICAL ENGINEER AND SITE GEOTECHNICAL REPORT DURING CONSTRUCTION.
- 15. EXCAVATE AND INSTALL STONE STORAGE PIT WITH ASSOCIATED PIPING AND THERMOPLASTIC LINER. PROTECT FROM SEDIMENTATION AT ALL TIMES DURING CONSTRUCTION.
- 16. EXCAVATE AND INSTALL PERIMETER COLLECTOR DRAINS WITH STONE TRENCH.
- 17. PERFORM FINE GRADING, COMPACT SUBGRADE, AND COMMENCE CONSTRUCTION OF THE FOLLOWING:
- 12"X8" FIELD PERIMETER CURB
- 12"X8" HIGH JUMP CURB - NEW GOALPOST FOUNDATIONS
- LONG/TRIPLE JUMP RUNWAY
- SANDPIT ASSEMBLY WITH UNDERDRAINS
- CONCRETE CURBING AROUND EXISTING FLAGPOLE QUICK COUPLER VALVE
- OUTER PERIMETER CURB (ADD ALTERNATE #1)
- 17. INSTALL MANHOLE TOPS ON EXISTING STORM STRUCTURES ST1.0 AND ST2.0 PER THE DRAINAGE DETAILS.
- 18. REMOVE EXISTING STORM STRUCTURES AND PIPES AND/OR FILL WITH FLOWABLE FILL PER THE DEMOLITION PLAN.

19. COMMENCE TURF FIELD CONSTRUCTION:

- FINE GRADE TURF FIELD AND COMPACT SUBGRADE
- INSTALL FILTER FABRIC AND FLAT PANEL DRAINS
- PLACE #57 STONE STORAGE LAYER AND FINISHING STONE - VACUUM-CLEAN EXISTING STORM DRAINS AND PIPES WITHIN PROJECT SITE.
- PERFORM REQUIRED INFILTRATION TESTS PER NOTES AND SPECIFICATIONS
- INSTALL SHOCK PAD - INSTALL SYNTHETIC TURF AND INFILL MATERIAL

## 20. APPLY TOPSOIL, SEED, AND MULCH TO THE LIMITS OF DISTURBANCE.

- 21. REPAIR ANY SURFACES OR FEATURES THAT WERE DAMAGED DURING CONSTRUCTION.
- 22. REPAIR ANY INADVERTENT EROSION AND REMOVE ANY INADVERTENT SEDIMENTATION FROM THE SITE.
- 23. REMOVE TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS, TRASH, AND DEBRIS FROM THE SITE.
- 24. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED AND THE CITY CIVIL INSPECTOR HAS AGREED THAT E&S MEASURES CAN BE REMOVED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF FINAL STABILIZATION.

Χ X X shall be use X | period, a ter X be met. X | completed.

YES N/A

Χ

Virginia Erosion and Sediment Control Plan Minimum Standards (MS) Checklis	t	TEALTH	OFT	
November 17, 2016	Describe how MS is addressed on plan	2 huil	E LE	
9VAC25-840-40 Minimum Standards MS1: Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.	Permanent and temporary seeding have been shown on the Erosion & Sediment Control plan sheets. These items have also been discussed in the Erosion Control Narrative and Sequence of Site Construction.	DANIEL E. Lic. No. 11/29/2	RUBY / Z 043841 / A 2021	
MS2: During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.	Soil stockpile stabilization requirements are addressed in the Erosion Control Narrative.	<sup>SSIONA</sup>		
MS3: A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion.	Permanent seeding schedules have been provided in the plan set. Permanent seeding is shown on the Phase 2 Erosion & Sediment Control Plan.	, VA 23452 nons.com		
MS4: Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.	Perimeter silt fence and inlet protection will be installed during the initial steps of construction as described in the Sequence of Site Construction.	AT THE <b>ITCE</b> inia Beach www.timm		
MS5: Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.	VDOT EC-2 matting shall be applied to the permanent stockpile as shown on the Phase 2 Erosion & Sediment Control Plan.	PREPARED EACH OFF 200   Virg 340.1415	TION	
<ul> <li>MS6: Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.</li> <li>a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres.</li> <li>b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.</li> <li>MS7: Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.</li> <li>MS8: Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel. flume or slope drain structure.</li> </ul>	Sediment traps are not anticipated nor proposed with this project.         Cut and fill slopes have been designed to be 3H:1V or flatter to minimize the potential for erosion.         This requirement is discussed in the Erosion Control Narrative	THIS DRAWING P <b>VIRGINIA BE</b> 2901 S. Lynnhaven Road Suite TEL 757.213.6679 FAX 757.3	REVISION DESCRIP	
MS9: Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.	Notes have been added to the Management Strategies section of the Erosion Control Narrative stating this requirement.	iH OURS.		
MS10: All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.	Inlet protection is shown on all existing storm drains on the Phase 1 Erosion & Sediment Control plan. Inlet protection for all structures to remain is shown on the Phase 2 Erosion & Sediment Control Plan	LEVED THROUG	ш	
MS11: Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.	This project connects to an existing piped system and is reducing flow rates at all points of analysis. Outlet protection is not required.	SION ACH.	DAT	E
MS12: When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.	No work in live watercourses will occur.	YOUR VI	11/29/2 DRAWN	2 <i>021</i> I BY
MS13: When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.	No work in live watercourses will occur.		C. HER	RON
MS14: All applicable federal, state and local chapters pertaining to working in or crossing live watercourses shall be met. MS15: The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed	No work in live watercourses will occur.         No work in live watercourses will occur.		DESIGNE <i>C. HEF</i>	d by RON
MS16: Underground utility lines shall be installed in accordance with the following standards in addition to other	Notes are included on the drainage plan			d by BY
<ul> <li>a. No more than 500 linear feet of trench may be opened at one time.</li> <li>b. Excavated material shall be placed on the uphill side of trenches.</li> <li>c. Efforts deviate an exception check be filtered or percend through an expressed codiment transing device.</li> </ul>			SCAL	.E
<ul> <li>c. Endent from dewatering operations shall be intered of passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or OFFSITE property.</li> <li>d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization</li> </ul>			NO SC.	ALE
e. Restabilization shall be accomplished in accordance with this chapter. f. Applicable safety requirements shall be complied with.		•	NIA JGH	
MS17: Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land disturbing activities.	One (1) construction entrance is shown on the Phase 1 Erosion & Sediment Control plan. It has been designed in accordance with the latest edition of the <u>VESCH</u> .		JFFOLK, VIRG NECK BOROI	
MS18: All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.	This requirement is discussed in the Erosion Control Narrative and Sequence of Site Construction.		ITY OF SU HOLY	
MS19: Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels:	This site discharges to two separate storm sewer systems near the existing football field. The two points of analysis are storm structure ST1.0 on the western system and storm structure ST2.0 on the eastern system.		0	ļ ш
natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed. b. Adequacy of all channels and pipes shall be verified in the following manner: 1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in guestion: or	Channel protection criteria are satisfied by reducing the peak flow during the 1-year, 24-hour storm to minimal levels in order to satisfy the energy balance equation, with a 20% improvement factor. This applies at both points of analysis	O		RRATIV
<ul> <li>2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks.</li> <li>(b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not overtop its banks.</li> </ul>	Flood protection criteria are satisfied by reducing the peak flow during the 10-year, 24-hour storm to below the pre-development rate. This applies of both peints of analysis		HOO SSION	DL NA
<ul> <li>(c) Pipes and storm sewer systems shall be analyzed by the use of a ten-year storm to verify that stormwater will be contained within the pipe or system.</li> <li>c. If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall:</li> </ul>			H SC NVEF	ONTR(
<ol> <li>Improve the channels to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to channel the bed or banks; or</li> <li>Improve the pipe or pipe system to a condition where the ten-year storm is contained within the</li> </ol>			l₽S	
<ul> <li>appurtenances;</li> <li>3) Develop a site design that will not cause the pre-development peak runoff rate from a twoyear storm to increase when runoff outfalls into a natural channel or will not cause the predevelopment peak runoff rate from a ten-year storm to increase when runoff outfalls into a manmade channel; or</li> <li>4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.</li> <li>d. The applicant shall provide evidence of permission to make the improvements.</li> </ul>		S	FIELD	EDIMEN
<ul><li>e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project.</li><li>f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP</li></ul>		-	AKE IRF	& SI
of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance. g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.			] 	SION
<ul> <li>h. All ONSITE channels must be verified to be adequate.</li> <li>i. Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.</li> <li>j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development for the development is a project.</li> </ul>				ERO
<ul> <li>k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.</li> <li>I. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to</li> </ul>				
<ul> <li>i. detain the water quality volume and to release it over 48 hours;</li> <li>ii. detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and</li> <li>iii. reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made chappels as</li> </ul>				
defined in any regulations promulgated pursuant to § 62.1-44.15:54 or 62.1-44.15:65 of the Act. m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of § 62.1-44.15:52 A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and attendant regulations, unless such land-disturbing activities (i) are in accordance with provisions for time limits on applicability of				
approved design criteria in 9VAC25-870-47 or grandfathering in 9VAC25-870-48 of the Virginia Stormwater Management Program (VSMP) Regulation, in which case the flow rate capacity and velocity requirements of § 62.1-44.15:52 A of the Act shall apply, or (ii) are exempt pursuant to § 62.1-44.15:34 C 7 of the Act. n. Compliance with the water quantity minimum standards set out in 9VAC25-870-66 of the Virginia Stormwater			јов N <b>492</b> :	o. 97
אפטומויסיז אפטומויסי א א מפטומויסי א שיש מפפאש איז איז א די די א א איז א א א איז א א א איז א א א א א	<u> </u>		SHEET <b>C-2</b>	NO. .0

![](_page_6_Figure_0.jpeg)

![](_page_7_Figure_0.jpeg)

EROSION & SEDIMENT CONTROL LEGEND						
	<del>-x - x - x</del>	SF	LIMITS OF CONSTRUCTION TRAFFIC ON EXISTING TRACK AND ASPHALT PATH			
CTION	TP	ТР	STORM DRAIN INLET PROTECTION			
STURBANCE			PERMANENT SEEDING	-(PS)		
ION ENTRANCE		CE	DUST CONTROL			
PILE CONTOURS		SP		$\bigcirc$		
OIL STABILIZATION MATTING		(B/M)				

![](_page_8_Figure_0.jpeg)

plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in wh mose whaterever inclusive, but not limited to construction, bidding, and/or construction staking without the express v

![](_page_9_Figure_0.jpeg)

![](_page_10_Figure_0.jpeg)

1.	DIMENSIONS ARE MEASURED TO EDGE OF CONCRETE UNLESS OTHERWISE INDICATED.	5.	EXPANSION AND CONT ALL CONCRETE SURFA SHEET C-6.0.
2.	THIS PROJECT IS LOCATED IN FLOOD ZONE 'X' (UNSHADED) OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. REFER TO FEMA FLOOD INSURANCE RATE MAP (FIRM) 5101560210D, EFFECTIVE 11/16/2011.	6.	EXPANSION JOINTS IN SPECIFIED ON SHEETS STRUCTURES, OR FIXE
3.	ALL PROPOSED PAVING SURFACES SHALL MEET ADJACENT PAVING SURFACES IN A SMOOTH CONTINUOUS MANNER, FLUSH ALONG ENTIRE COMMON EDGE.	7.	ALL CONCRETE SIDEW, INDICATED TO BE REMO TO THE NEAREST JOIN

![](_page_11_Figure_0.jpeg)

SHEET NO. C-4.1

![](_page_12_Figure_0.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

	EXISTING ASPHALT TRACK	TOP OF CURB SHALL MATCH TOP OF ASPHALT (1/2" BELOW RUBBER SURFACE) 12"X8" FIELD PERIMETER CURB SLOPE VARIES	FINISHED GRADE AT SOCCER FIELD TOUCHLINE = 67.51'	2.25" SYNTHETIC TURF 0.5" WASHED SCREENII 1.5" #8 BASE STONE 6.0" (MIN.) CLEANED AN FLAT PANEL DRAIN (1"X12" ADS® ADVA
		SLOPE COMPACTED SUBGRADE TOWARDS STONE STORAGE PIT (SUBGRADE SHALL BE LINED WITH GEOTEXTILE FABRIC) SUBGRADE COMPACTED TO 95% OF MAXIMUM DRY DENSITY (ASTM D-698) AND APPROVED BY GEOTECHNICAL ENGINEER (TYP.)	VARIES (0.5% MIN.) AVERAGE S GROUNDWATH BOTTOM O	SEASONAL HIGH F STONE = $62.30'$ — — — — — — — — — — — — — — — — — — —
2021 J.2J FIM   by Casey 1151011		AVERAGE SE GROUNDWATEF	EASONAL HIGH R TABLE = 65.4'	2' 10" N-12 DU HDPE UNDE (INVERT = 6 4" - 12" MIN
סטוטטותאסיטופפויטהיאשלטו - טטיו - הרורימיאט ו וטייטי יוידטיי				
0.110 1.170401 Fundaria				

![](_page_15_Figure_2.jpeg)

![](_page_16_Figure_0.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Figure_1.jpeg)

- OBSERVATION WELLS ARE LOCATED AT THE 5-YARD LINES. USE STAKEOUT SURVEY TO ESTABLISH POSITION OF WELLS IN THE FIELD.
- 2. ROTATE TURF BOX TO SIT PARALLEL TO FOOTBALL BOUNDARY LINE.
- 3. OBSERVATION WELLS ARE DENOTED BY [ ☑ ] ON THE DRAINAGE PLAN.

# **OBSERVATION WELL DETAIL** SCALE: 1" = 1'

![](_page_17_Figure_8.jpeg)

![](_page_17_Figure_9.jpeg)

![](_page_17_Figure_11.jpeg)

# NOTES

- 1. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT, INCLUDING FITTINGS.
- 2. PIPES SHALL BE INSTALLED IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS AND MANUFACTURER'S GUIDELINES.
- 3. PROVIDE 3" MINIMUM COMPACTED #57 STONE UNDERNEATH LEVELING BRICKS FOR MANHOLE ACCESS FRAME KIT.
- 4. CONTINUE GEOTEXTILE FABRIC TO OUTER FACE OF DRAINAGE STRUCTURE.

	GENERAL
	<ol> <li>METHOD "A" PIPE BEDDING SHALL BE USED FOR ALL TYPES OF PIPE CULVE APPLICABLE HEIGHT OF COVER RANGE NOTED IN THE STANDARD PC-1 TABLE OTHERWISE NOTED ON THE PLANS.</li> </ol>
	2. H = HEIGHT OF COVER MEASURED FROM TOP OF CULVERT TO FINISHED GR 3. b = EXCAVATION DEPTH AS SHOWN ON PLANS OR TO FIRM BEARING SOIL.
	CIRCULAR PIPE
	1. D = OUTSIDE DIAMETER OF PIPE.
	2. d = INSIDE DIAMETER OF PIPE.
	3. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF TH $X = 12$ " WHERE d IS LESS THAN 36". X = 18" WHERE d IS 36" AND GREATER.
	4. WHERE DIRECTED BY THE ENGINEER. BEDDING MATERIAL MAY BE ELIMINATED NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE (EXCEPT PLA 30'' AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
	5. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL M ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PI LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
	6. BEDDING MATERIAL AND CLASS I BACKFILL MATERIAL MAY BE ELIMINATED FO SLOT INLET (DI-13) OUTLET PIPES INSTALLATIONS.
ELLIPTICAL PIPE	
	1. S <sub>1</sub> = OUTSIDE SPAN DIMENSION OF PIPE.
	2. $S_2$ = INSIDE SPAN DIMENSION OF PIPE.
	3. R - OUTSIDE RISE DIMENSION OF PIPE.
	<ul> <li>4. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF T X = 12" WHERE S<sub>2</sub> IS LESS THAN 36". X = 18" WHERE S<sub>2</sub> IS 36" AND GREATER</li> <li>5. WHERE DIRECTED BY THE ENGINEER. BEDDING MATERIAL MAY BE ELIMINATED NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S<sub>2</sub> IS LESS AND HEIGHT OF COVER 15' OR LESS.</li> </ul>
	6. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S2 IS 38" OF HEIGHT OF COVER 15' OR LESS.
	PIPE ARCH
	1. S = SPAN DIMENSION OF PIPE.
	2. R = RISE DIMENSION OF PIPE.
	3. B = SEE PC-1 TABLE FOR APPLICABLE PIPE MATERIAL
	4. x = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF TH $x = 12$ " WHERE S <sub>2</sub> IS LESS THAN 36". x = 18" WHERE S <sub>2</sub> IS 36" AND GREATER
	5. WHERE DIRECTED BY THE ENGINEER. BEDDING MATERIAL MAY BE ELIMINATED NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S <sub>2</sub> IS LESS AND HEIGHT OF COVER 15' OR LESS.
	6. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL M ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S IS 35" OR HEIGHT OF COVER 15' OR LESS.
SPECIFICATION REFERENCE 302 303	INSTALLATION OF PIPE CULVERTS & STORM S GENERAL NOTES

		PB-1			
VERTS WITHIN THE LES UNLESS					
GRADE.					
L.					
THE PIPE.					
ED FOR LASTIC PIPE)					
MATERIAL FOR PIPE) 30" AND					
FOR SHOULDER					
THE PIPE.					
ED FOR IS 38" OR					
OR LESS AND					
THE PIPE.					
ed for Is 35" or					
MATERIAL FOR DR LESS AND					
SEWERS					

**REVISION DATE** 

SHEET 1 OF 1

107.00

![](_page_18_Figure_3.jpeg)

![](_page_18_Figure_4.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_19_Figure_1.jpeg)

![](_page_19_Figure_3.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Picture_1.jpeg)

![](_page_22_Figure_0.jpeg)

2. END ZONE LETTERS SHALL BE LAKELAND IN THE SOUTH END ZONE AND CAVALIERS IN THE NORTH END ZONE IN "NAVY BLUE " OUTLINED IN "WHITE"

NOTE: A. FONT STYLE SHALL BE COLLEGIATE B. SOCCER END LINES OR GOAL BOXES SHALL NOT GO THROUGH END ZONE LETTERS

3. FIELD COLOR: SOLID GREEN

L

- 4. CENTER LOGO SHALL BE A CAVALIER MAN WITH HAT AND FEATHER. COLORS SHALL BE DETERMINED DURING SUBMITTAL REVIEW. LINES SHALL NOT PASS THROUGH LOGO.
- 5. 20YD-LINES SHALL BE DOUBLE STRIPED "NAVY BLUE" FOR RED ZONE.
- 6. COACHES BOXES SHALL BE WHITE AT A DEPTH OF 6FT BETWEEN THE 25YD LINE AND 25YD LINE.
- 7. FOOTBALL BOUNDARY LINE AND GOAL LINES SHALL BE 8" WIDE.
- 8. LINES SHALL **NOT** GO THROUGH END ZONE LETTERS OR CENTER LOGO.

![](_page_22_Figure_9.jpeg)

- WHITE INLAID

- YELLOW / GOLD INLAID

**CENTER LOGO** 

**GENERAL STRIPING NOTES** :

FOOTBALL

FIELD HOCKEY

SOCCER

. ALL ATHLETIC FIELD STRIPING DIMENSIONS SHALL BE BASED ON THE LATEST NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS). 2. 4" SILVER CIRCULAR IN-LAYS TO BE PLACED DIRECTLY OVER TOP OF ALL EXISTING STORM STRUCTURES WITHIN FIELD LIMITS.

![](_page_22_Picture_12.jpeg)

![](_page_22_Figure_13.jpeg)

![](_page_22_Figure_17.jpeg)

- CENTER LOGO SHALL BE A CAVALIER MAN WITH HAT AND FEATHER. (NO LINES SHALL PASS THROUGH LOGO)

![](_page_22_Figure_19.jpeg)

STADIUM FIELD FIELD DOMINANCE AND STRIPING SCHEDULE: - BABY BLUE (OR EQUAL) INLAID