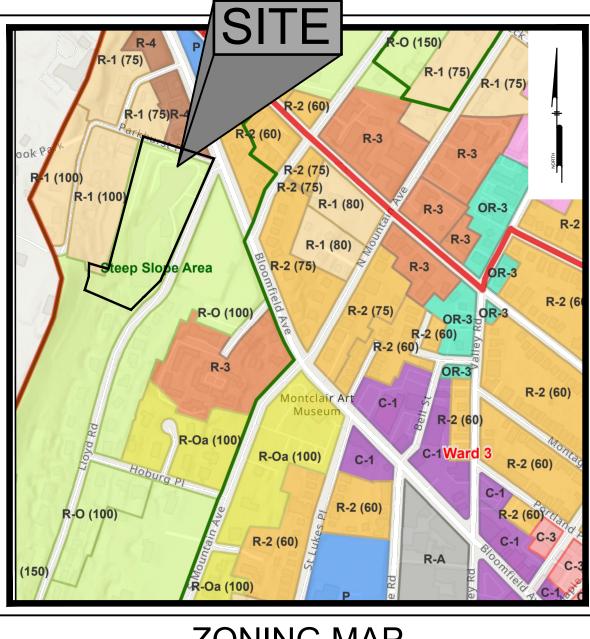
UTILITY CONTACTS							
MONTC	LAIR KIMBERLY ACADEMY, MONT	CLAIR, NJ					
COMPANY	CONTACT	ADDRESS					
NEW JERSEY BELL TELPHONE CO.	CORPORATE SECRETARY	540 BROAD STREET, ROOM 1005, NEWARK, NJ 07101					
AMERICAN TELEPHONE AND TELEGRAPH CO.	KARL GROSSMANN	50 PATRICIA DRIVE, FLANDERS, NJ 07836					
PUBLIC SERVICE ELECTRIC & GAS CO.	MANAGER CORPORATE PROPERTIES	80 PARK PLACE, T6B, NEWARK, NJ 07102					
PASSAIC VALLEY WATER COMMISSION	CORPORATE SECRETARY	1525 MAIN AVENUE, CLIFTON, NJ, 07011					
MCI	JOHN SCOCCOLA	10 MARCELLO AVE, WEST ORANGE NJ, 07052					
COMCAST CABLE	N/A	800 RAHWAY AVENUE, UNION, NJ, 07083					
VERIZON	N/A	ONE VERIZON WAY, BASKING RIDG NJ 07920					

# PRELIMINARY AND FINAL SITE PLAN

**NEW JERSEY** ONE CALL

## CALL BEFORE YOU DIG 1-800-272-1000

CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE REQUIREMENTS OF THE NEW JERSEY ONE-CALL DAMAGE PREVENTION SYSTEM AS STATED IN THE "UNDERGROUND FACILITY PROTECTION ACT". TICKET NUMBER(S):



ZONING MAP Scale: 1" = 5000'

# **STEM CENTER**

**6 LLOYD ROAD, TOWNSHIP OF MONTCLAIR, ESSEX COUNTY, NEW JERSEY LOT 16, BLOCK 302 SEPTEMBER 5, 2023** 

# **PREPARED FOR: OWNER/DEVELOPER MONTCLAIR KIMBERLEY ACADEMY**

201 VALLEY ROAD MONTCLAIR, NJ ,07042 SHEET CS0001 CS0002 CS0101 CS0501 CS1001 CS1501 CS1701 CS2002 CS3501 CS4001 CS6001 CS6002 CS6003 CS8501

CS8502

CS8503

PREPARED BY: **PENNONI ASSOCIATES INC.** 

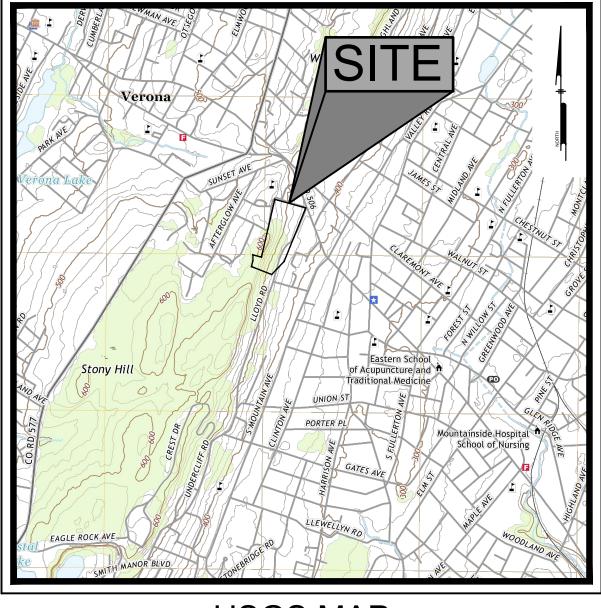


103 College Road East Princeton, NJ 08540 **T** 609-987-2323 **F** 609-987-0005

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300



LOCATION MAP Scale: 1" = 1000'



	SHEET LIST TABLE	Ē	
PAGE	SHEET TITLE	ISSUED DATE	REVISED DATE
1	COVER SHEET	9/5/2023	11/17/2023
2	NOTES SHEET	9/5/2023	11/17/2023
3	AREA AND VICINITY MAP	9/5/2023	
4	DEMOLITION PLAN	9/5/2023	11/17/2023
5	SITE PLAN	9/5/2023	11/17/2023
6	GRADING PLAN	9/5/2023	11/17/2023
7	UTILITY PLAN	9/5/2023	11/17/2023
8	LIGHTING PLAN	9/5/2023	11/17/2023
9	ROAD PROFILES	9/5/2023	11/17/2023
10	UTILITY PROFILES	11/17/2023	
11	SITE DETAILS	9/5/2023	11/17/2023
12	UTILITY DETAILS	9/5/2023	11/17/2023
13	UTILITY DETAILS 2	9/5/2023	
14	EROSION AND SEDIMENTATION CONTROL PLAN	9/5/2023	11/17/2023
15	EROSION AND SEDIMENTATION CONTROL NOTES	9/5/2023	
16	EROSION AND SEDIMENTATION CONTROL DETAILS	9/5/2023	

ALL DIMENSIONS MUST BE AND OWNER MUST E DISCREPANCIES BEFORE I	and a start	/	1/1005/	MADIC STEL	PROFESSION	NEW JEKSI NO. GI
STEM CENTER	6 LLOYD ROAD MONTCLAIR, NJ	COVER SHEFT				MONTCLAIR, NJ ,07042
					0502	ВҮ
					1 REV PER TRC FEEDBACK	NO. REVISIONS
					2023-11-17	DATE
ARE INS PROJECT TO BE SU THE EXTI PROJECT. OR ADA SPECIF SOLI EXPOSUR INDEMNIF FROM AL	UMENTS PF STRUMENTS THEY ARI TABLE FOO ENSIONS O ANY REUS PTATION B IC PURPOS E RISK AND E TO PENN Y AND HOL L CLAIMS, I SING OUT O	s of se e not in r reuse f the p se with y penn se inten ) witho oni ass d harm damage	RVICE IN NTENDE E BY OW ROJECT OUT WF ONI ASS NDED WI UT LIAB SOCIATE ILESS PI ES, LOSS	N RESPE D OR RE (NER OF OR ON RITTEN \ SOCIATE LL BE A ILITY OF E; AND O ENNONI SES ANE	ASSOCIA ECT OF 1 EPRESEN OTHER ANY OT /ERIFICA S FOR T T OWNE & LEGAL WNER S ASSOCI D EXPEN	THE NTED IS ON HER ATION THE RS SHALL ATES ISES
PROJECT		V	'AM		200	
DATE DRAWING	SCALE				3-09-0 NOTE	
DRAWN BY					050	
APPROVE					050	)2
	C	;50	00	1		

SHEET 1 OF 16

INC

## **APPROVALS**:

TOWNSHIP OF MONTCLAIR

PLANNING BOARD CHAIRPERSON

PLANNING BOARD SECRETARY

TOWNSHIP ENGINEER

USGS MAP Scale: 1" = 2000'NOT FOR CONSTRUCTION

	MUN
	/ERON
	MOI TO
	MOI TO
	MO
	TO MOI TO
	MO
	то <sup>.</sup> мо
	TO
	MOI TO
	TO
	MOI TO
	TO
	MOI TO
	MOI TO
	MO
	TO
	/ERON
	MOI TO
	MOI TO
	MOI TO
	MOI
	TO MOI TO
	MOI
	MOI TO
	MO
	TO
	MOI TO
VE	/ERON/
	MOI TO
	MO
	TO
	MOI TO
	MOI TO
	MOI TO
	MOI TO
v	WEST TO
	MO
	TO
	MOI TO
	MOI TO
	MOI TO
-	

	LIST (	OF ADJOINI	ING PROPERTIES THAT INTE	ERSECT 200 FOOT BUFFER FRC	OM SUBJECT PROPERTY (BLC	OCK 302 LOT 16)						
UNICIPALITY	BLOCK	LOT	LOCATION	OWNER	MAILING ADDRESS	OWNER CITY/STATE	OWNER ZIP CODE					
ONA TOWNSHIP	402	4	39 AFTERGLOW WAY	39 AFTERGLOW LLC	39 AFTERGLOW WAY	VERONA, NJ	07044					
MONTCLAIR TOWNSHIP	301	1	40 AFTERGLOW WAY	SLUTZKY, ANDREW & ROBIN SACKS	40 AFTERGLOW WAY	MONTCLAIR, NJ	07042					
MONTCLAIR TOWNSHIP	301	2	38 AFTERGLOW WAY	GOODLING, MATTHEW L & LUCY V	38 AFTERGLOW WAY	MONTCLAIR, NJ	07042					
MONTCLAIR TOWNSHIP	301	3	36 AFTERGLOW WAY	WHITEWALLS NJ LLC	36 AFTERGLOW WAY	MONTCLAIR, NJ	07042					
MONTCLAIR TOWNSHIP	302	14	46 LLOYD ROAD	SZEGEDI, ARMIN & SU-YUN	46 LLOYD ROAD	MONTCLAIR, NJ	07042	MONTCLA		404	4	825 BLOC AVEI
MONTCLAIR TOWNSHIP	302	15	40 LLOYD ROAD	MERANUS, LEAH NOSNIK & STEVEN SETH	40 LLOYD ROAD	MONTCLAIR, NJ	07042	MONTCLA	AIR	404	5	823 BLOC
MONTCLAIR TOWNSHIP	302	17	18 PARKHURST PLACE	BATTLESON, WENDY A	18 PARKHURST PLACE	MONTCLAIR, NJ	07042	MONTCLA	AIR	404	6	AVEI 821 BLOC
MONTCLAIR TOWNSHIP	302	18	29 AFTERGLOW WAY	VAN DER MERWE, ANTHONY	29 AFTERGLOW WAY	MONTCLAIR, NJ	07042	MONTCLA		404	7	AVEI 314 MCDOI
MONTCLAIR TOWNSHIP	302	19	31 AFTERGLOW WAY	PIZARRO-FERRANTE, MARI	31 AFTERGLOW WAY	MONTCLAIR, NJ	07042	MONTCLA				781 BLOC
MONTCLAIR	302	20	33 AFTERGLOW WAY	ZBAR, L I S & MARGO W	33 AFTERGLOW WAY	MONTCLAIR, NJ	07042	MONTCLA		404	8	AVE
MONTCLAIR	302	21	35 AFTERGLOW WAY	ZELTZER, ZACHARY	35 AFTERGLOW WAY	MONTCLAIR, NJ	07042	MONTCLA	IIP	404	9	AVEI 14 UP. MC
MONTCLAIR	302	22	35B AFTERGLOW WAY	MEYERS, ADAM & LORI	35B AFTERGLOW WAY	MONTCLAIR, NJ	07042	TOWNSH	IIP	404	10	AVE
TOWNSHIP	302	23	37 AFTERGLOW WAY	FUCHS-MEYERS MORRISON, GARRETT S	37 AFTERGLOW WAY	MONTCLAIR, NJ	07042	MONTCLA TOWNSH	IIP	404	11	16 UP. MC AVE
TOWNSHIP								MONTCLA TOWNSH		404	13	22 UP. MC AVEI
TOWNSHIP	302	24	39 AFTERGLOW WAY	39 AFTERGLOW LLC	39 AFTERGLOW WAY	MONTCLAIR, NJ	07042	MONTCLA TOWNSH		404	14	22 UP. MO AVEI
	302	25	17 BELLECLAIRE PL		17 BELLECLAIRE PL	VERONA, NJ	07044	ZONING I	REQUIRE	EMEN	TS	
MONTCLAIR TOWNSHIP	304	5	43 LLOYD ROAD	O'BRIEN, JAMES B & JOYCE F	43 LLOYD ROAD	MONTCLAIR, NJ	07042	TOWNSHIP O	F MONTCLAIF	R ZONIN	G ORDINA	NCE, ZONED:
MONTCLAIR TOWNSHIP	304	6	39 LLOYD ROAD	NAAMAN, ASAPH & TAMAR	39 LLOYD ROAD	MONTCLAIR, NJ	07042	LOT AREA 289	),875 SF / 6.65	55 ACRE	S	
MONTCLAIR TOWNSHIP	304	7	35 LLOYD ROAD	ARMSTRONG, JEAN M	35 LLOYD ROAD	MONTCLAIR, NJ	7042	SECTION 347-12.A.		CONE		ISE
MONTCLAIR TOWNSHIP	304	8	33 LLOYD ROAD	FERRETTI, EILEEN L EST OF	33 LLOYD ROAD	MONTCLAIR, NJ	07042					
MONTCLAIR TOWNSHIP	304	9	31 LLOYD ROAD	KOLTON, LISA	31 LLOYD ROAD	MONTCLAIR, NJ	07042	(1)			EGATE SI	
MONTCLAIR TOWNSHIP	304	10	201 VALLEY ROAD	MONTCLAIR KIMBERLEY ACADEMY FOUNDATION	201 VALLEY ROAD	MONTCLAIR, NJ	07042	(2)				
MONTCLAIR TOWNSHIP	304	11	201 VALLEY ROAD	MONTCLAIR KIMBERLEY ACADEMY FOUNDATION	201 VALLEY ROAD	MONTCLAIR, NJ	07042	(4)	MI	N. STRE	ET PAVINO	G WIDTH
MONTCLAIR TOWNSHIP	304	12	289 MT. HOPE AVE	WALDEN PROPERTIES	289 MT. HOPE AVE	DOVER, NJ	07801	(5)			IILDING HE	
MONTCLAIR TOWNSHIP	304	17	71 VALLEY ST STE 204	12 SO. MOUNTAIN APARTMENTS, LLC	71 VALLEY ST STE 204	SOUTH ORANGE, NJ	07079	(6)				I DRIVEWAYS
ONA TOWNSHIP	401	1	1 SUNSET AVE	CHILDREN'S INSTITUTE	1 SUNSET AVE	VERONA, NJ	07044		MIN. [			RSECTION
MONTCLAIR	401	2	15 ROCKLEDGE ROAD	HAYNES, ALLEN & ALESSANDRA	15 ROCKLEDGE ROAD	MONTCLAIR, NJ	07042	(7)			ARD SETB	
MONTCLAIR	401	3	11 ROCKLEDGE ROAD	RAMAKRISHNAN, KIRTHI & DEVIDO, LARA	11 ROCKLEDGE ROAD	MONTCLAIR, NJ	07042			FRONT	YARD SET	BACK
MONTCLAIR	402	1	301 SO. LIVINGSTON AVE	MUSEUM COMMONS LLC	301 SO. LIVINGSTON AVE	LIVINGTSTON, NJ	07039	(8)				
TOWNSHIP	402	2	301 SO. LIVINGSTON AVE	C/O AFFILIATED MGT MUSEUM COMMONS LLC	301 SO. LIVINGSTON AVE	LIVINGSTON , NJ	07039	(9)			REQUIRE	CE COVERAGE
TOWNSHIP				C/O AFFILIATED MGT		MONTCLAIR, NJ		(11)			AREA	RY BUILDINGS
TOWNSHIP	402	3	16 ROCKLEDGE ROAD		16 ROCKLEDGE ROAD		07042	(12) (*) - EXISTING	F NON-CONFC	FROM PE	ROPERTY	
TOWNSHIP	402	4	10 ROCKLEDGE ROAD	DELP, TIM & MOLLY V	10 ROCKLEDGE ROAD	MONTCLAIR, NJ	07042	(**) - INCLUDE (***) - PER AR (****) - DIMENS	CHITECT CAL	CULATI	ONS	TIAL IMPERVIC
ST LAFAYETTE TOWNSHIP	402	5	3561 HAMILTON ST	GULICH, MICHAEL & TINA	3561 HAMILTON ST	WEST LAFAYETTE ,IN	47906	PARKING CAL	.CULATIONS:			
MONTCLAIR TOWNSHIP	402	6	414 EAGLE ROCK AVE #208	836 BLOOMFIELD AVE ASSOCIATES, LLC	414 EAGLE ROCK AVE #208	WEST ORANGE, NJ	07052	1 SPACE PER 1 SPACE FOR TOTAL				•
MONTCLAIR TOWNSHIP	404	1	3 PROSPECT AVENUE	GRANT, KOBI Y & BLAIR	3 PROSPECT AVENUE	MONTCLAIR, NJ	07042	ON-SITE LLOYD ROAD	79		PROPOSEI 76 49	D
MONTCLAIR TOWNSHIP	404	2	829 BLOOMFIELD AVENUE	PRYZYBLSKI, JUDITH & COHEN, MELISSA	829 BLOOMFIELD AVENUE	MONTCLAIR, NJ	07042	ULOYD ROAD WALDEN PLA TOTAL			49 54 179	
MONTCLAIR TOWNSHIP	404	3	827 BLOOMFIELD AVENUE	TOWNSEND, MARCIA	827 TOWNSEND AVENUE	MONTCLAIR, NJ	07042					

#### GENERAL NOTES: SITE ADDRESS: 6 LLOYD ROAD MONTCLAIR, NJ, 07042

OWNER/APPLICANT: MONTCLAIR KIMBERLEY ACADEMY 201 VALLEY ROAD MONTCLAIR, NJ, 07042

ENGINEER: VAN NOTE-HARVEY A DIVISION OF PENNONI 103 COLLEGE ROAD EAST PRINCETON, NJ, 08540

ARCHITECT: VOITH & MACTAVISH ARCHITECTS LLP 2401 WALNUT STREET, 6TH FLOOR PHILADELPHIA, PA, 19103

825 BLOOMFIELD AVENUE	LAWRENCE, RICHARD & HIUSHAK, V	825 BLOOMFIELD AVENUE	MONTCLAIR, NJ	07042
823 BLOOMFIELD AVENUE	PETERS, KELLEY	823 BLOOMFIELD AVENUE	MONTCLAIR, NJ	07042
821 BLOOMFIELD AVENUE	VARGA, DAVID	821 BLOOMFIELD AVENUE	MONTCLAIR, NJ	07042
314 MCDONALD AVE	819 BLOOMFIELD HOLDINGS, LLC	314 MCDONALD AVE	BROOKLYN, NY	11218
781 BLOOMFIELD AVENUE	DIPAOLO, PATRICK	781 BLOOMFIELD AVENUE	MONTCLAIR, NJ	07042
12 UP. MOUNTAIN AVENUE	WOODBY, SARAH	12 UP. MOUNTAIN AVENUE	MONTCLAIR, NJ	07042
14 UP. MOUNTAIN AVENUE	VENDETTI, CHRISTIAN & ELIZABETH	14 UP. MOUNTAIN AVENUE	MONTCLAIR, NJ	07042
16 UP. MOUNTAIN AVENUE	ALEMAN-DIAZ, JOSE & ZANARDI, TARA	16 UP. MOUNTAIN AVENUE	MONTCLAIR, NJ	07042
22 UP. MOUNTAIN AVENUE	22 UPPER INC C/O ISOLDE S BEDELL	22 UP. MOUNTAIN AVENUE	MONTCLAIR, NJ	07042
22 UP. MOUNTAIN AVENUE	BEDELL, ISOLDE FAMILY PARTNERS LP	22 UP. MOUNTAIN AVENUE	MONTCLAIR, NJ	07042

#### NCE, ZONED: R-O MOUNTAINSIDE ZONE

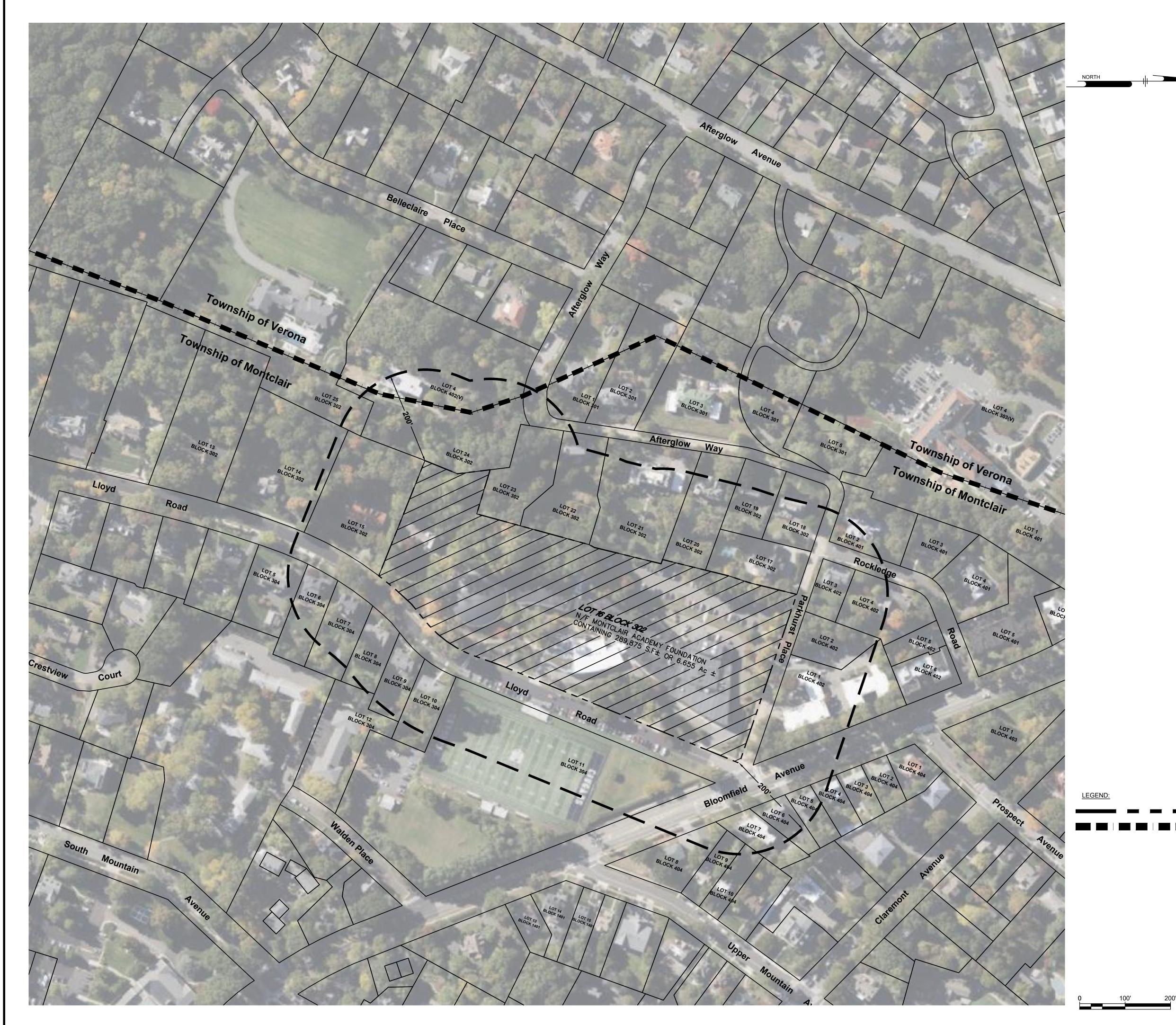
	REQUIRED/ALLOWED	EXISTING	PROPOSED
SE	PRIVATE SCHOOL	PRIVATE SCHOOL	PRIVATE SCHOOL
	LOT AREA, DIMENSIONAL, AND DESIGN	REQUIREMENTS	
E AREA	250 SF / STUDENT	450= 644 SF / STUDENT	450= 644 SF / STUDENT
SROOMS	28 SF / STUDENT / 12,600 SF	39.45 SF / STUDENT 16,801 SF	46.01 SF / STUDENT 20,613 SF
T FRONTAGE	1.75 ACRES / 300 FT	6.655 ACRES/ 20,131 FT	6.655 ACRES/ 20,131 FT
WIDTH	35 FT	18 FT PARKHURST* 30 FT LLOYD*	18 FT PARKHURST 30 FT LLOYD
IGHT	35 FT 2 $\frac{1}{2}$ STORIES	28.75 FT	34.5 FT ***
/EWAYS	2	3	3
DRIVEWAYS	150 FT	125 FT NORTH TO CENTER* 290FT SOUTH TO CENTER	125 FT NORTH TO CENTER 290 FT SOUTH TO CENTER
RSECTION	200 FT	80 FT*	80 FT
ACK	50 FT	65.69 FT	65.69 FT****
ACK	100 FT	164.94 FT	164.94 FT****
BACK	50 FT	44 FT PARKHURST* 34 FT LLYOD*	44 FT PARKHURST 34 FT LLYOD
ACK	50 FT	N/A	N/A
/IENTS	121 SPACES	182 SPACES*	179 SPACES
E COVERAGE	70%	49.75%	53%**
RY BUILDINGS	25%	23.84%	24.99%
VAY SETBACK LINES	15 FT	10.30 FT*	10.30 FT

AL IMPERVIOUS COVER WITHIN THE NORTHERN COURTYARD

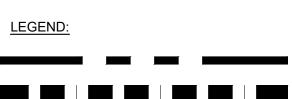
82 STAFF MEMBERS)= 82 SPACESTO DRIVE (155 STUDENTS)  $\frac{155}{4}$ = 39 SPACES= 121 SPACES

**NOT FOR CONSTRUCTION** 

	<b>Pennon</b>		NJ COA GA28033300	PENNONI ASSOCIATES INC. 103 College Road Fast	Princeton, NJ 08540	1 609-98/-2323 F 609-98/-0005
ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK	and the second se	1 11/1	1 Ann 5 11 ag Mar	MARK S MAVHEW	PROFESSIONAL ENGINEER	NEW JERSEY LICENSE NO. GE35596
STEM CENTER	6 LLOYD ROAD MONTCLAIR, NJ	NOTES SHEET				MONTCLAIR, NJ ,07042
					MOM	
					0502 MUN	BY
						NO. REVISIONS BY
					0502	REVISIONS
PROJECT. TO BE SUIT THE EXTE PROJECT. OR ADAF SPECIFIC SOLE EXPOSU	RUMENTS THEY AR TABLE FOI NSIONS O ANY REUS PTATION B PURPOS RISK ANE RE TO PE NDEMNIFY ES FROM	S OF SEI E NOT IN R REUSE F THE P SE WITH Y PENN SE INTEN WITHO WITHO WITHO WITHO ALL CLA OUT OF	RVICE II ITENDE E BY OW ROJEC OUT WE ONI ASS IDED W UT LIAB ASSOCI/ OLD HA IMS, DA OR RES	INNONI / N RESPE D OR RE C OR ON RITTEN V SOCIATES, AN RIMLESS MAGES, JULTING	HIT STATES TO ST	
ARE INST PROJECT. TO BE SUIT THE EXTE PROJECT. OR ADAF SPECIFIC SOLE EXPOSU SHALL I ASSOCIATE EXPENSES	RUMENT: THEY AR TABLE FOI NSIONS O ANY REUS TATION E C PURPOS C PURPOS C RISK ANE RE TO PE NDEMNIF S FROM ARISING (	S OF SEI E NOT IN R REUSE F THE P SE WITH Y PENN SE INTEN WITHO WITHO WITHO WITHO ALL CLA OUT OF	RVICE II ITENDE E BY OW ROJEC OUT WE ONI ASS IDED W UT LIAB ASSOCI/ OLD HA IMS, DA OR RES	ENNONI A N RESPE D OR RE J OR RE TOR OR RITTEN V SOCIATES; AN RMLESS MAGES, JULTING ATES; AN RMLESS MAGES, 202	0502 2023-11-17 1 REV PER TRC FEEDBACK 0502 2023-11-17 1 REV PER TRC FEEDBACK	DATE NO. REVISIONS RE
ARE INST PROJECT. TO BE SUIT THE EXTE PROJECT. OR ADAF SPECIFIC SOLE EXPOSU SHALL I ASSOCIATE PROJECT DATE	RUMENT: THEY AR TABLE FOI NSIONS OC ANY REUS TATION B C PURPOS RISK ANE RE TO PE NDEMNIF S FROM A ARISING (	S OF SEI E NOT IN R REUSE F THE P SE WITH Y PENN SE INTEN WITHO WITHO WITHO WITHO ALL CLA OUT OF	RVICE II ITENDE E BY OW ROJEC OUT WE ONI ASS IDED W UT LIAB ASSOCI/ OLD HA IMS, DA OR RES	ENNONI A N RESPE D OR RE J OR RE TOR OR RITTEN V SOCIATES; AN RMLESS MAGES, JULTING ATES; AN RMLESS MAGES, 202	0502 050 050	Date Date Norward A D
ARE INST PROJECT. TO BE SUIT THE EXTE PROJECT. OR ADAF SPECIFIC SOLE EXPOSU SHALL I ASSOCIATE EXPENSES PROJECT DATE DRAWING S	RUMENT: THEY AR TABLE FOI NSIONS O ANY REUS TATION B COUNTRY REST OPE NDEMNIF SS FROM ARISING ( COUNTRY COUNTY COUNTRY	S OF SEI E NOT IN R REUSE F THE P SE WITH Y PENN SE INTEN WITHO WITHO WITHO WITHO ALL CLA OUT OF	RVICE II ITENDE E BY OW ROJEC OUT WHONI ASS IDED W UT LIAB ASSOCIA OLD HA IMS, DA OR RES	INNONI / N RESPE D OR RE / OR OR / TER OR RITTEN V SOCIATES; AN RMLESS MAGES, ULTING ATES; AN RMLESS MAGES, 202 AS N	0502 050 050	Date Date No. Revisions environmental control of the series of the serie



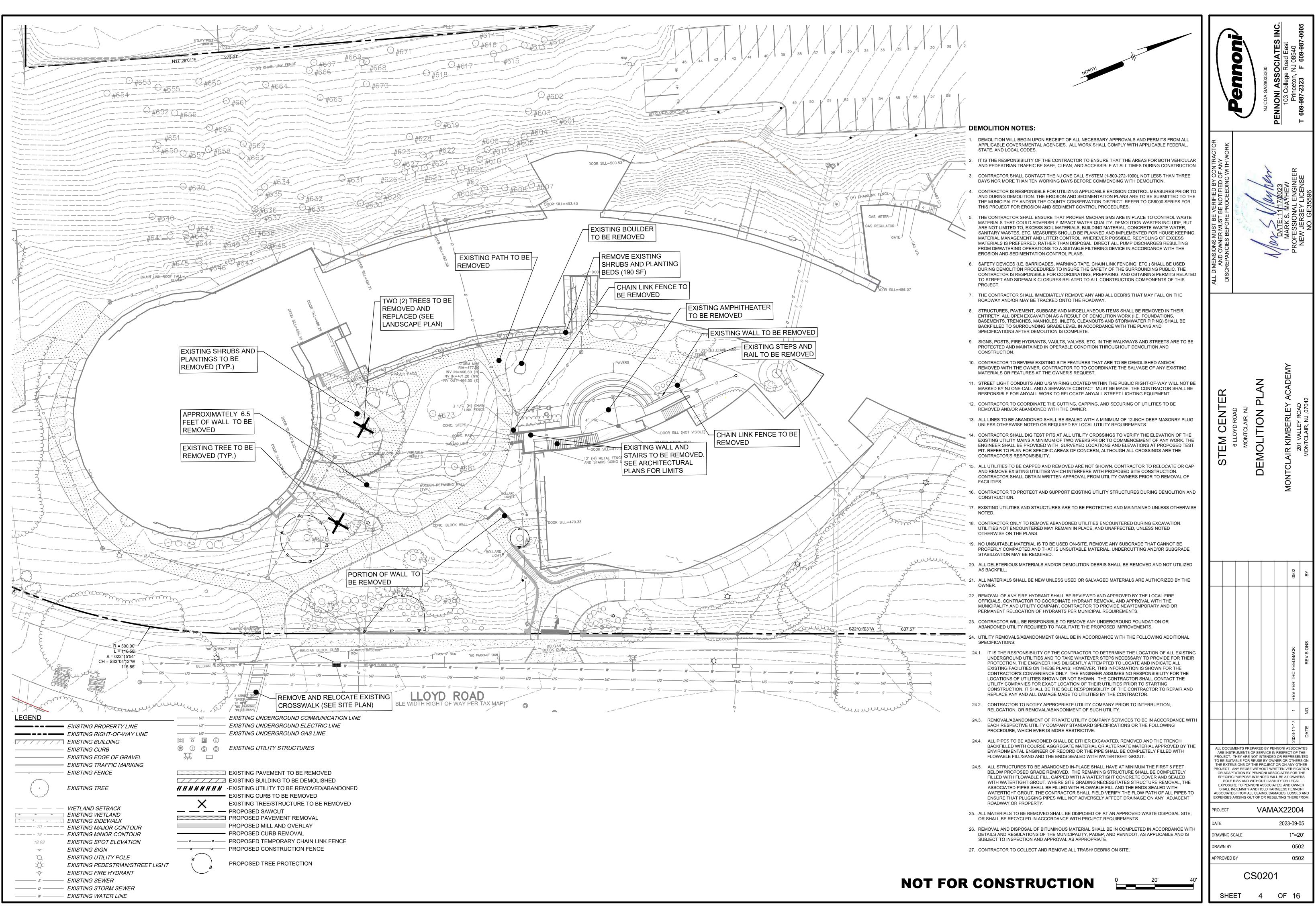
		02 <u>C</u>
	ennoni	NJ COA GA28033300 PENNONI ASSOCIATES INC. 103 College Road East Princeton, NJ 08540 T 609-987-2323 F 609-987-0005
	Ĭ,	NJ COA GA2803 PENNONI AS: 103 Colleg Princetor T 609-987-2323
	ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK	Montesting Mark S. Mayhew Professional engineer New Jersey License NO. Ge35596
	STEM CENTER 6 LLOYD ROAD MONTCLAIR, NJ	AREA AND VICINITY MAP MONTCLAIR KIMBERLEY ACADEMY 201 VALLEY ROAD MONTCLAIR, NJ, 07042
	STEN 6L	BY BY MONTCLAIR K MONT
		REVISIONS
SITE BOUNDARY LINE W/ 200 FT BUFFER MUNICIPAL BOUNDARY		DATE
	ARE INSTRUMENTS PROJECT. THEY ARE TO BE SUITABLE FOR THE EXTENSIONS OF PROJECT. ANY REUS OR ADAPTATION BY SPECIFIC PURPOSIS SOLE RISK AND EXPOSURE TO PEN SHALL INDEMNIFY ASSOCIATES FROM A	EPARED BY PENNONI ASSOCIATES OF SERVICE IN RESPECT OF THE NOT INTENDED OR REPRESENTED REUSE BY OWNER OR OTHERS ON F THE PROJECT OR ON ANY OTHER WITHOUT WRITTEN VERIFICATION Y PENNONI ASSOCIATES FOR THE E INTENDED WILL BE AT OWNERS WITHOUT LIABILITY OR LEGAL NNONI ASSOCIATES; AND OWNER AND HOLD HARMLESS PENNONI ALL CLAIMS, DAMAGES, LOSSES AND DUT OF OR RESULTING THEREFROM.
	PROJECT	VAMAX22004 2023-09-05
	DRAWING SCALE	1"=100' 0502
NOT FOR CONSTRUCTION	APPROVED BY	0502 SO101 3 OF 16



200'

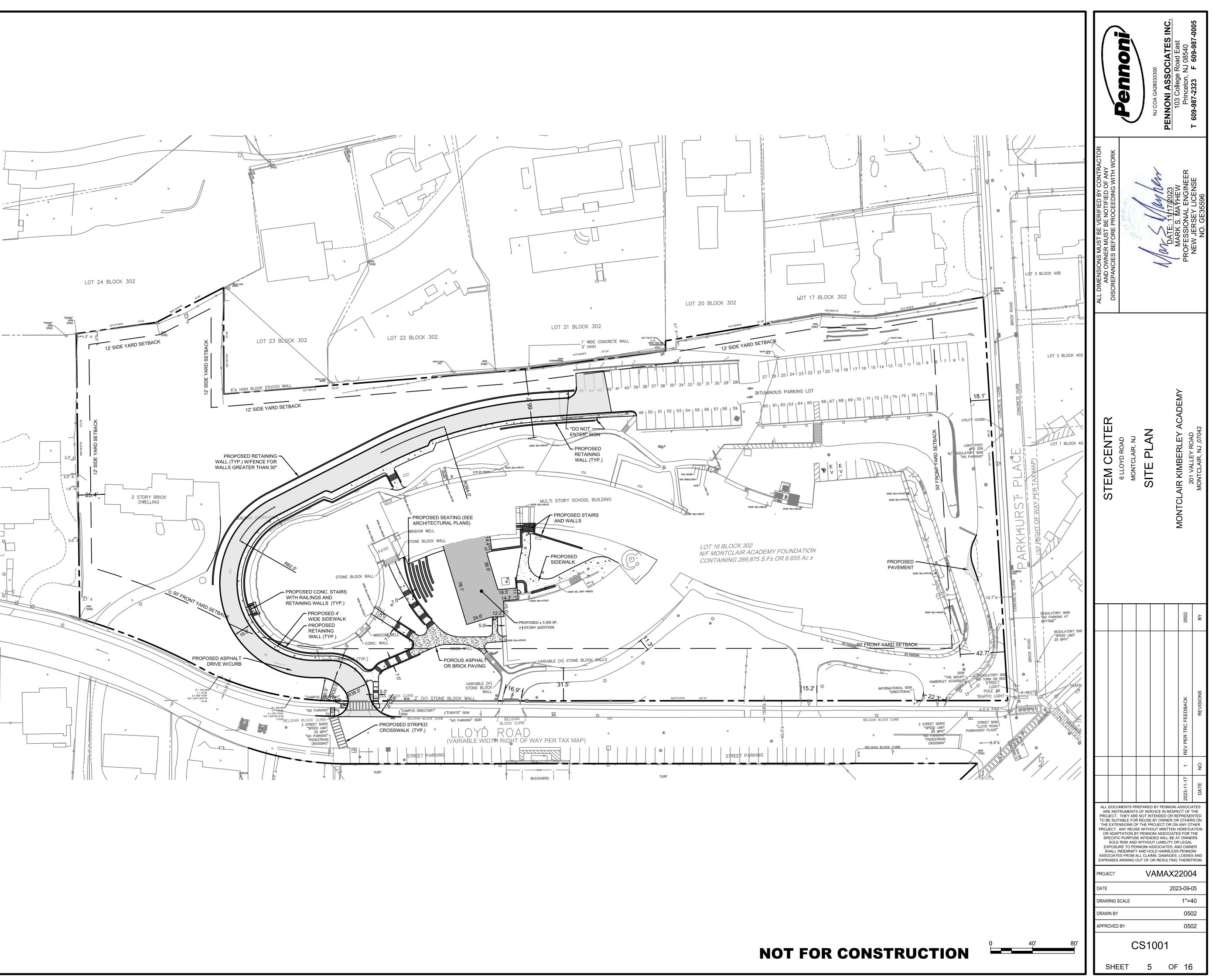
100'

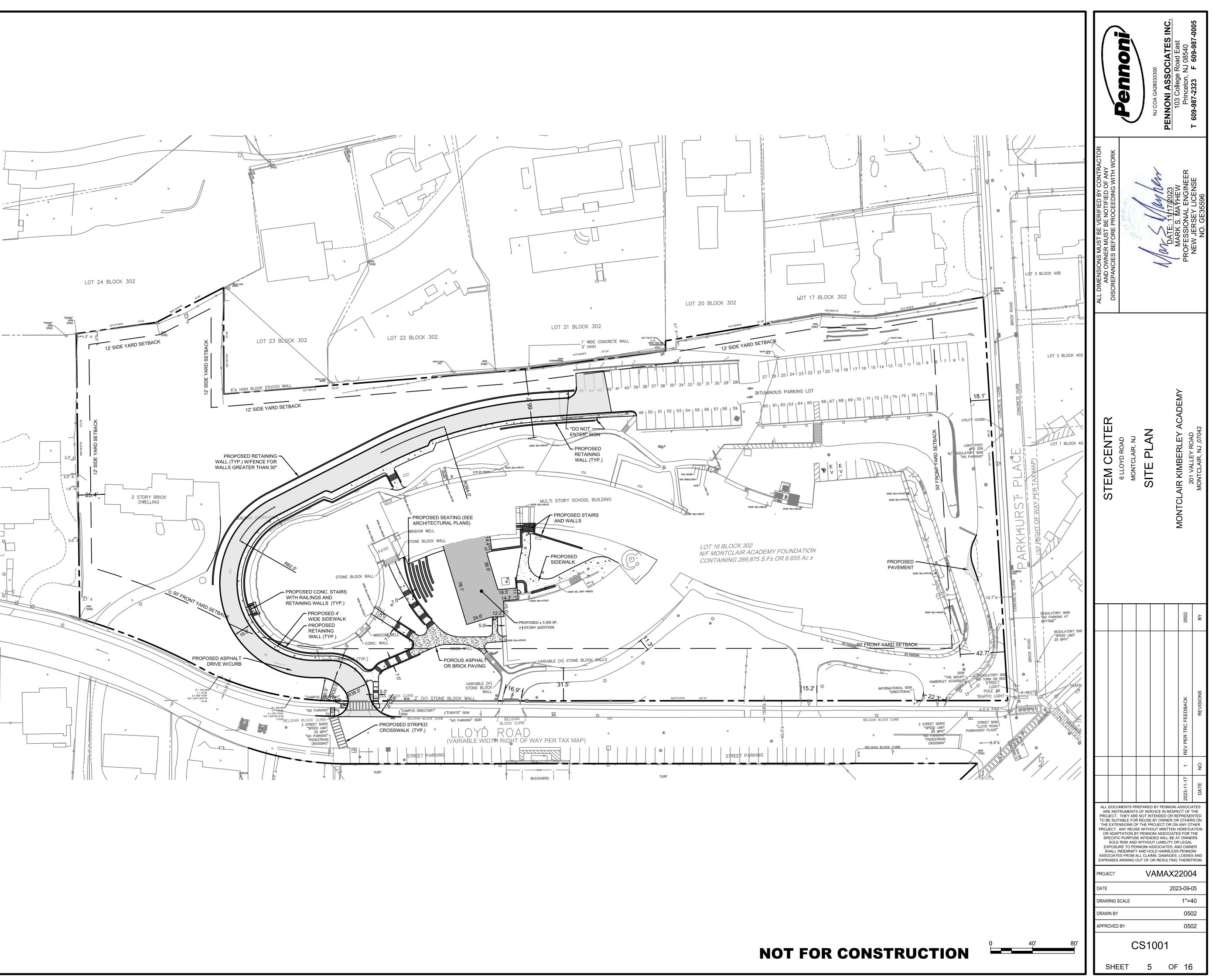
NORTH



END	COL	ISTR	ІІСТІ	
<b>FUR</b>	LUT	чэік		

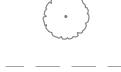






### LEGEND

_		_			_		
	/	/	/	7	7	7	
_							
							_



19.99

-0-

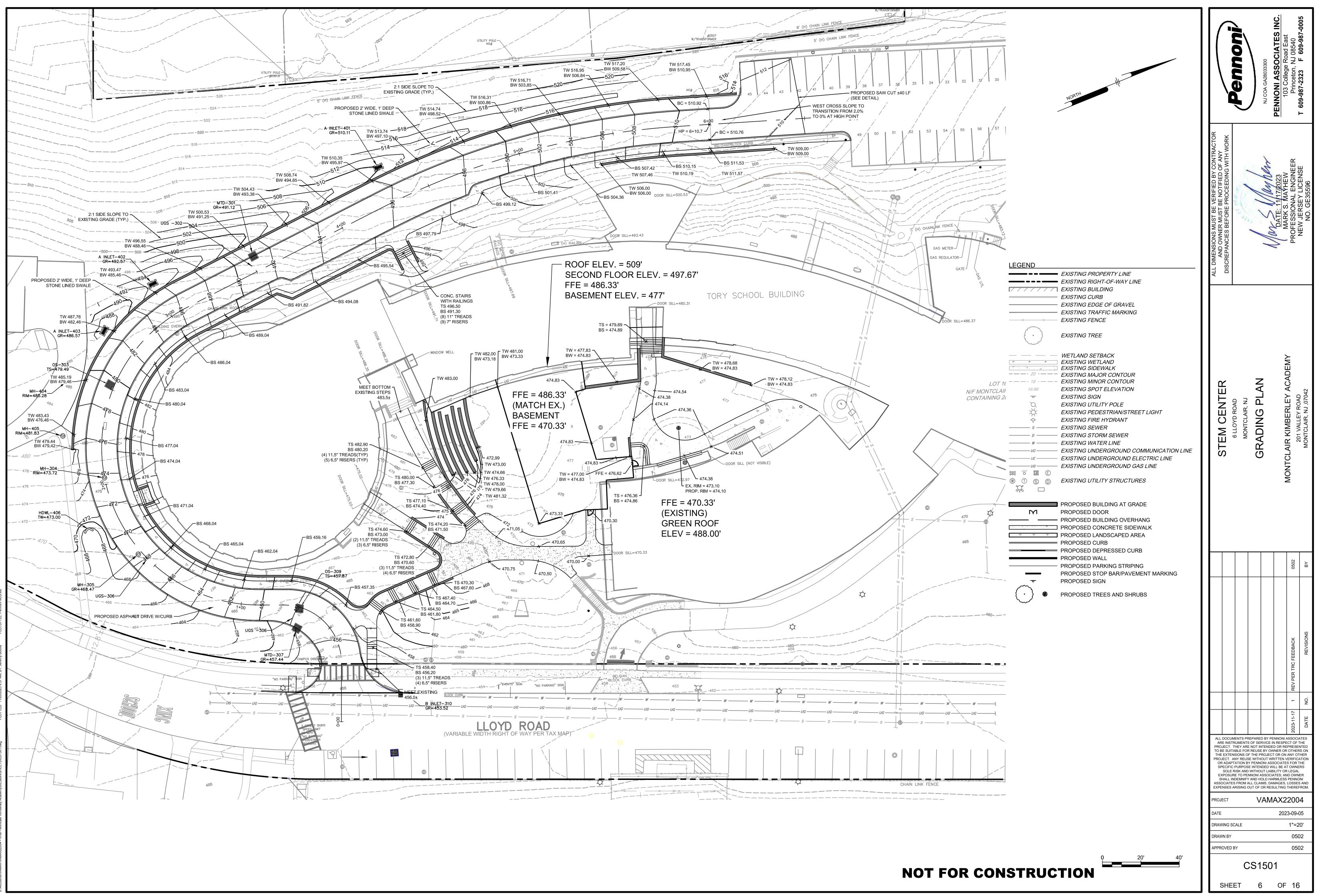
 $\mathcal{O}$ 

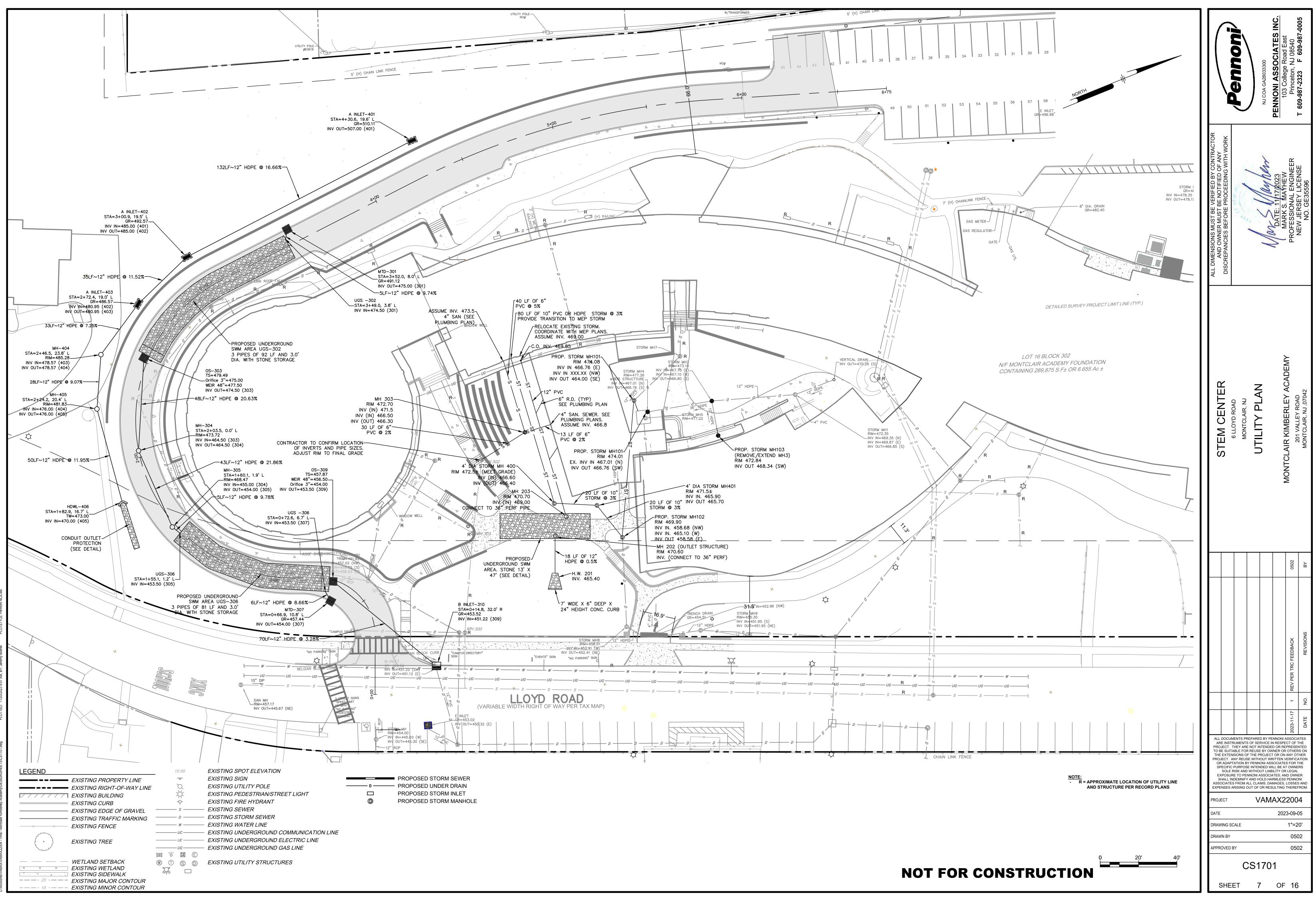
 $\mathbf{X}$ 

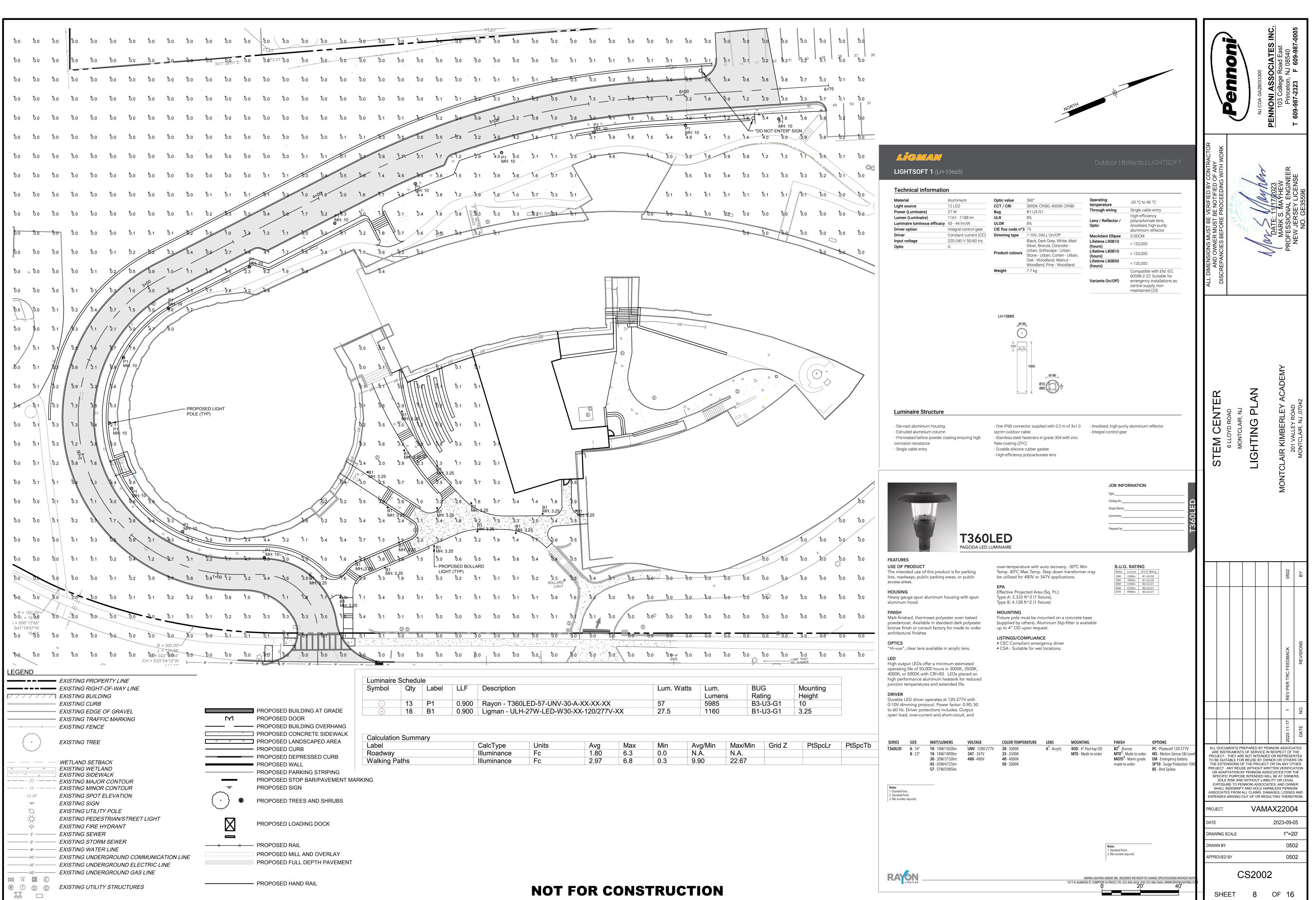
-Q-

WETLAND SETBACK <u>باد باد باد</u> EXISTING WETLAND EXISTING SIDEWALK ---- 20 ---- EXISTING MAJOR CONTOUR ----- 19 ----- EXISTING MINOR CONTOUR EXISTING SPOT ELEVATION EXISTING SIGN EXISTING UTILITY POLE EXISTING PEDESTRIAN/STREET LIGHT EXISTING FIRE HYDRANT ------ s ------ EXISTING SEWER *— D — EXISTING STORM SEWER* ——— w ——— EXISTING WATER LINE ------ EXISTING UNDERGROUND ELECTRIC LINE (𝔅) (𝔅) (𝔅) (𝔅) EXISTING UTILITY STRUCTURES 

PROPOSED POROUS PAVEMENT

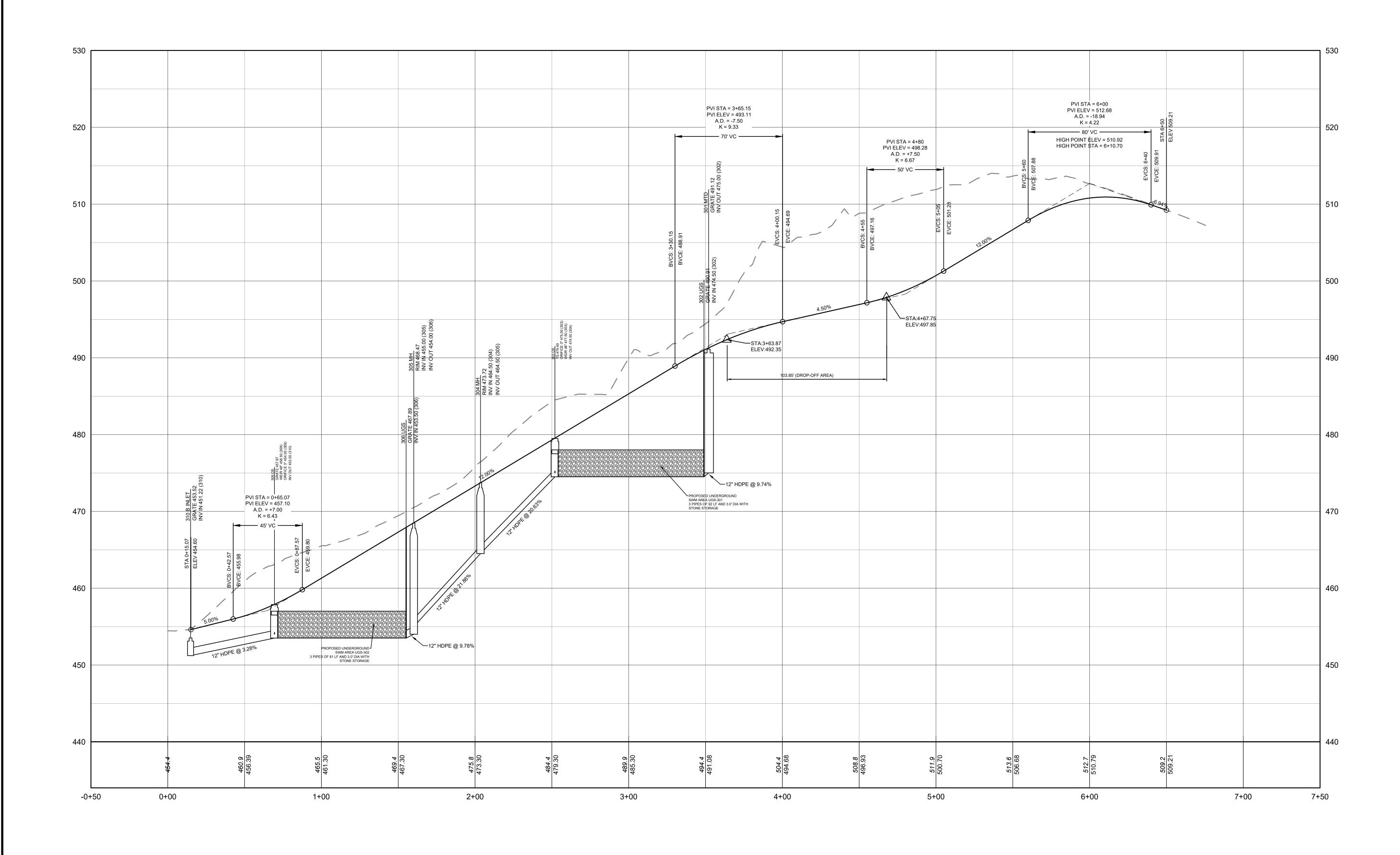




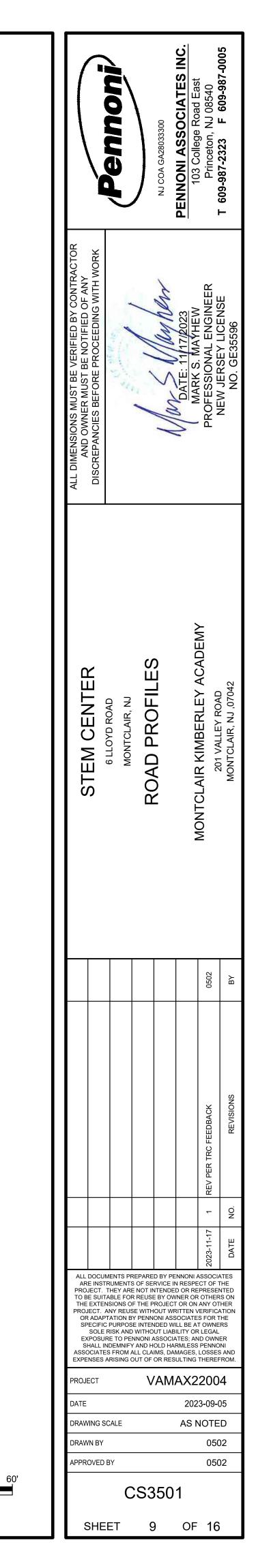


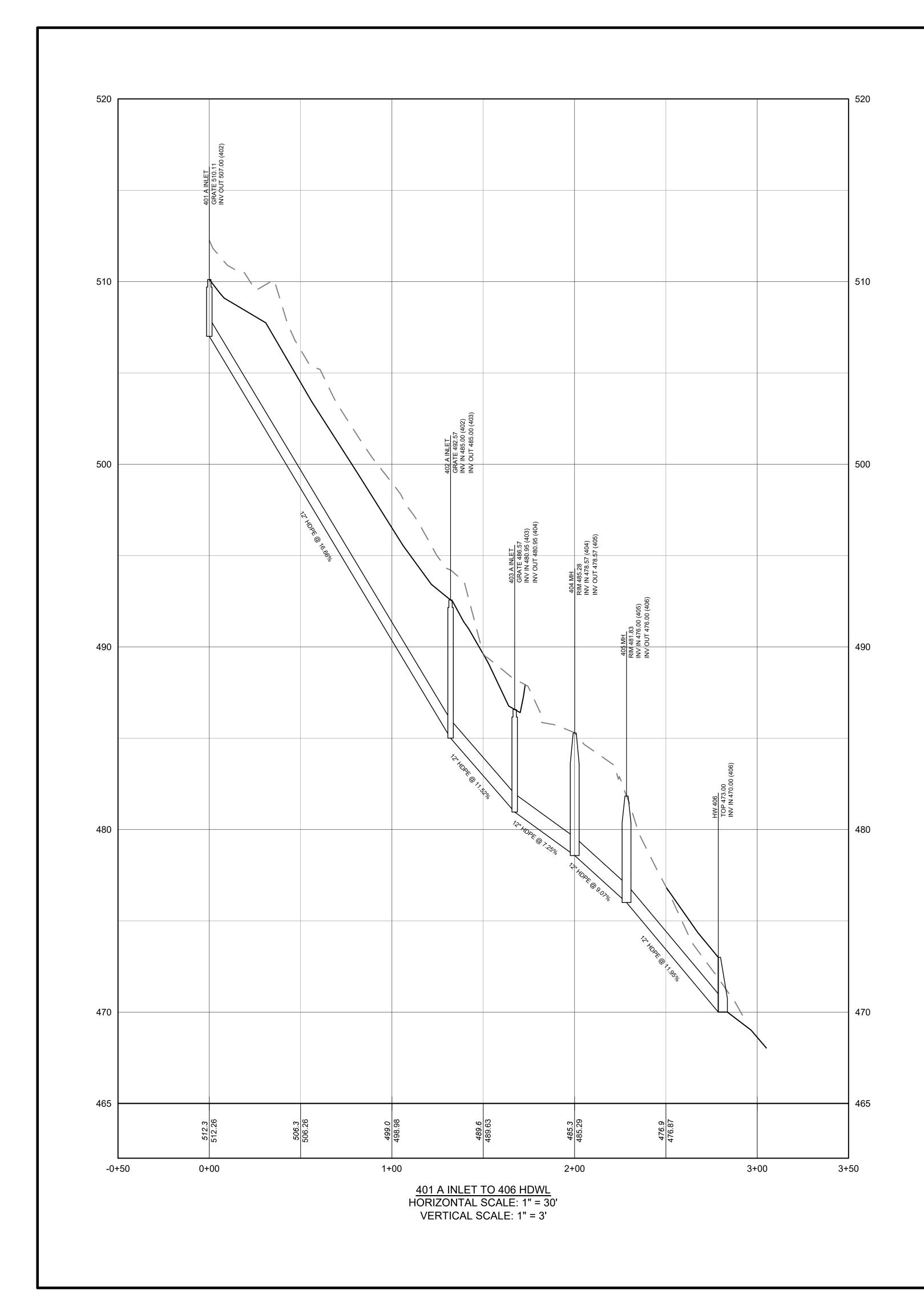
D1					Lumens	Rating	Height
D1						<b>U</b>	
	1   (	0.900	Rayon - T360LED-57-UNV-30-A-XX-XX-XX	57	5985	B3-U3-G1	10
B1	1 (	0.900	Ligman - ULH-27W-LED-W30-XX-120/277V-XX	27.5	1160	B1-U3-G1	3.25

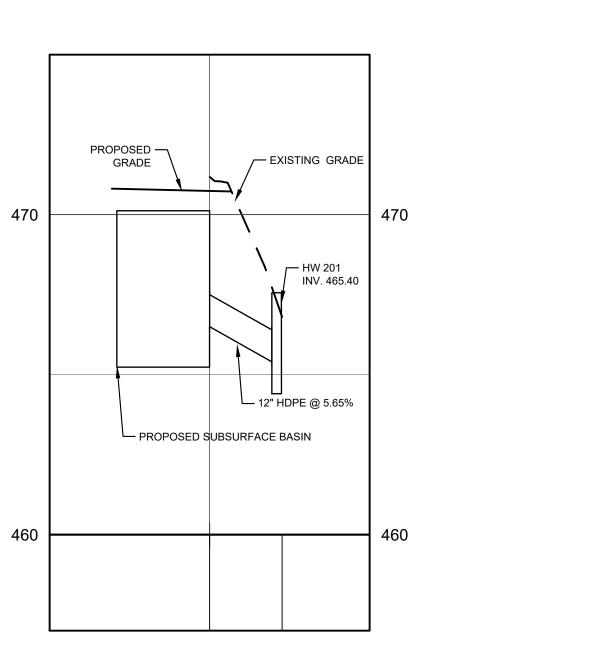
n ar y											
	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z	PtSpcLr	PtSpcTb	
	Illuminance	Fc	1.80	6.3	0.0	N.A.	N.A.				13
	Illuminance	Fc	2.97	6.8	0.3	9.90	22.67				
											I

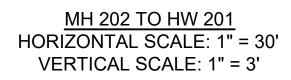


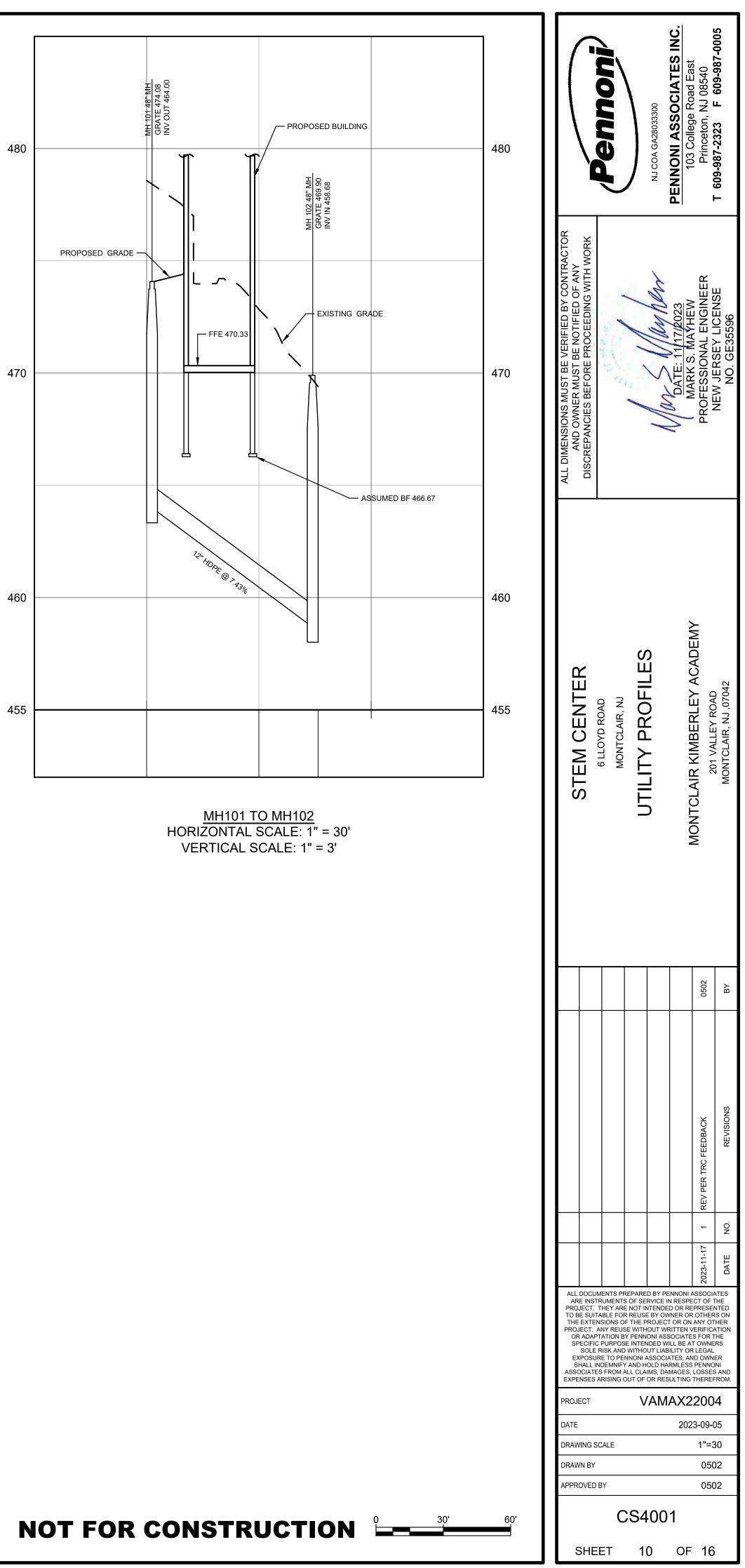
ts/VAMAX/VAMAX22004 - Vma - Montdair Kimberley Academy/DESIGN/SHEETS/CS3501.dwg PLOTTED: 11/20/2023 9:59 AM, BY: Jeremy Bottrel PLOTSTYLE: Pennoni NC

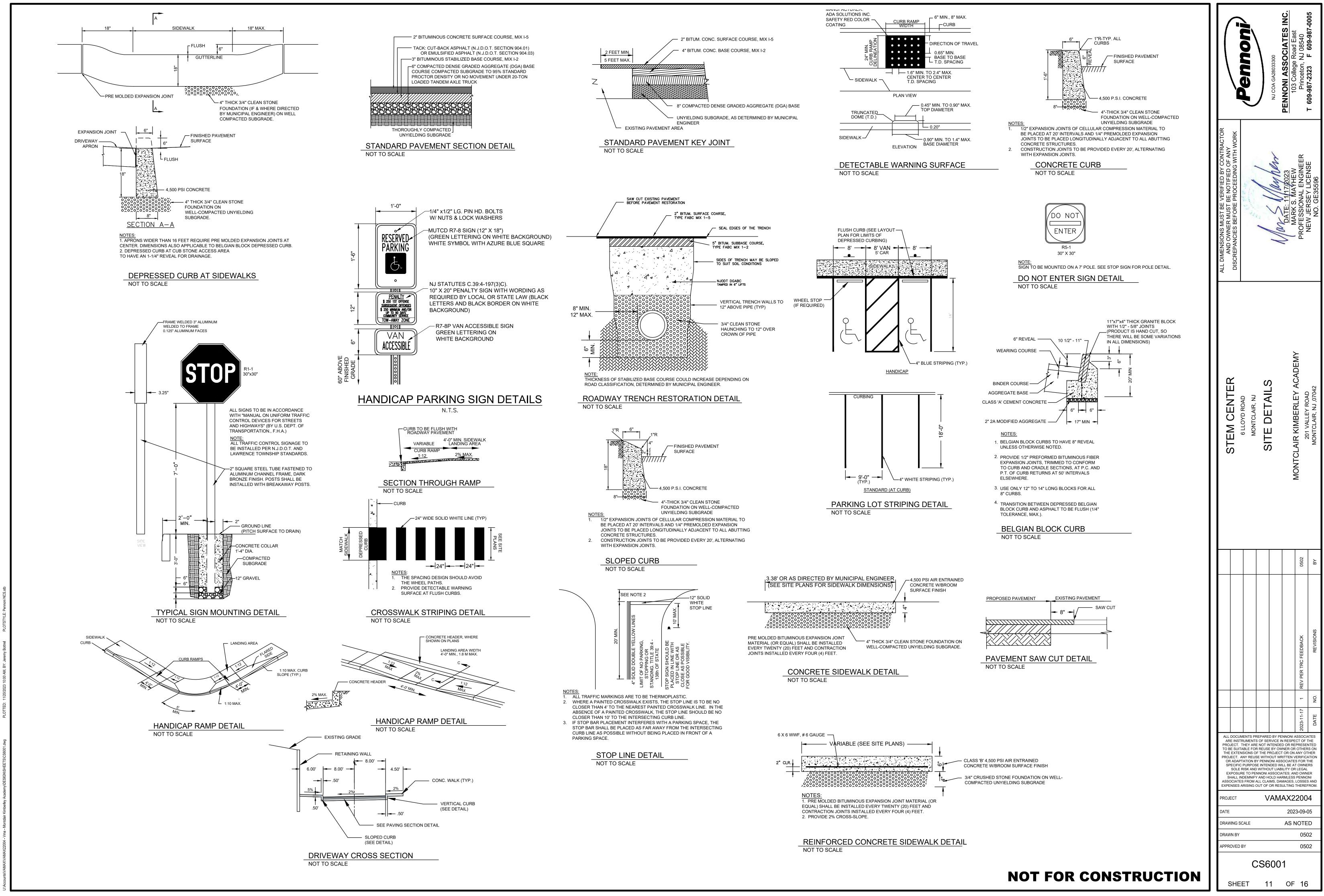


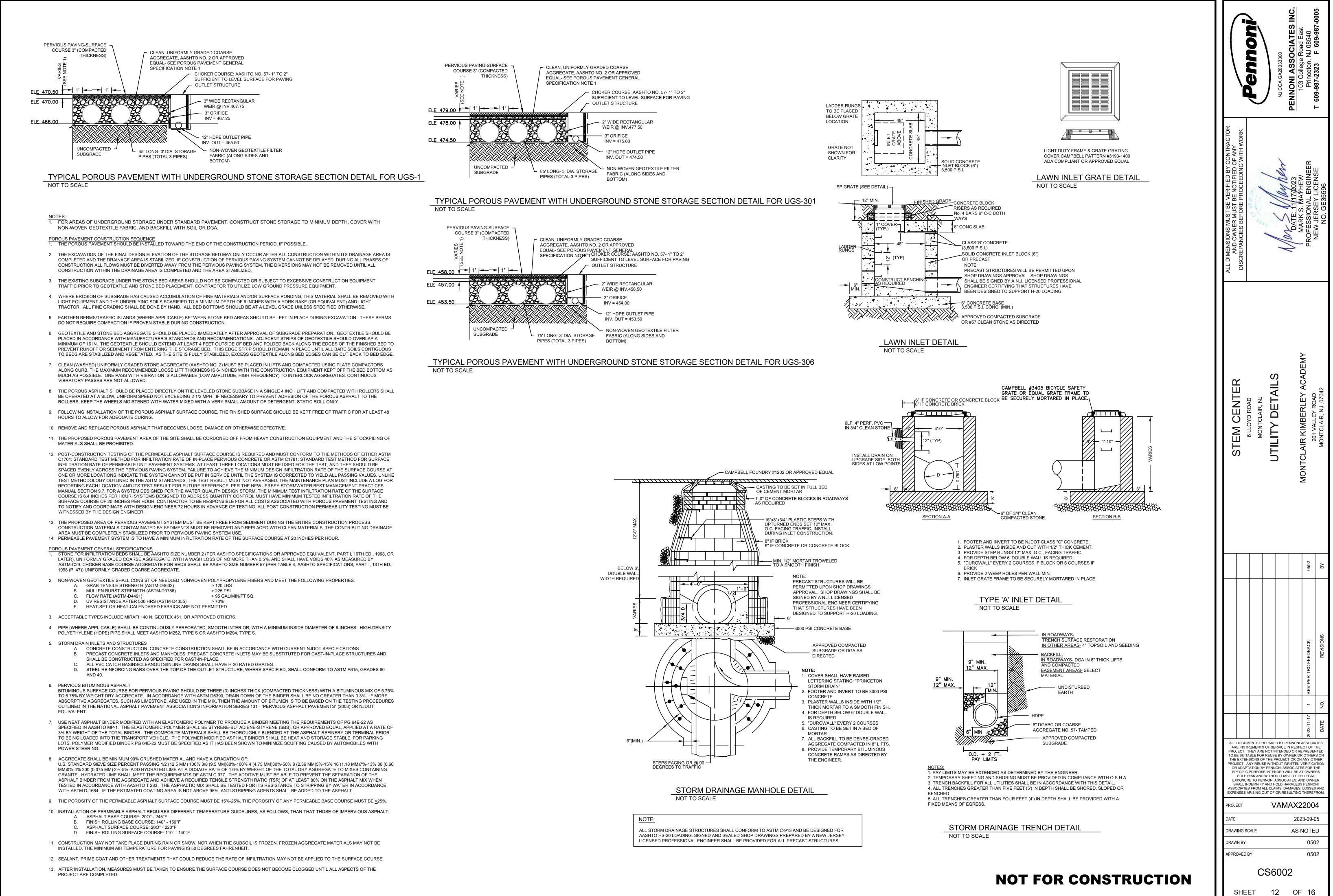


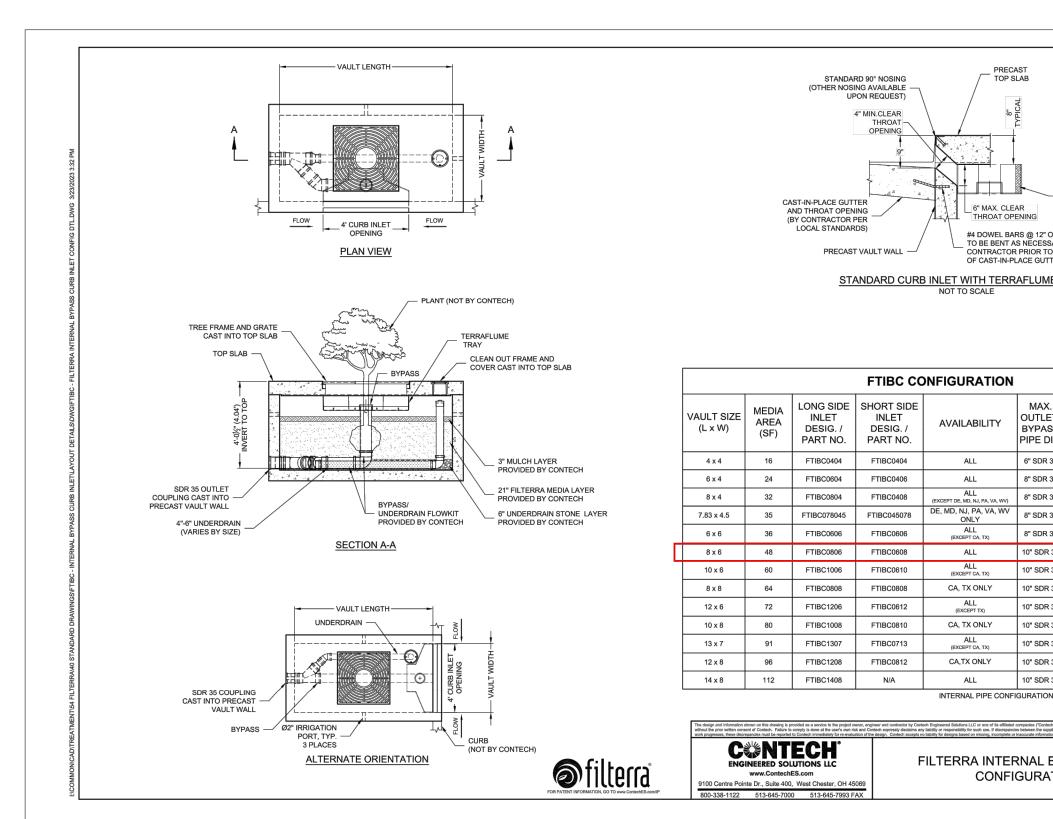














" O.C. SSAR	PLACE UNTI AND FILTER BY CONTEC ( BY STALLATION	N DEVICE 10VE - LEAVE L SITE IS STAI RA IS ACTIVA H	BILIZED			
Х.	MAX. BYPASS	UNDER- DRAIN	TREE			
_ET/ ASS DIA.	FLOW (CFS)	PIPE DIA. (PERF)	GRATE QTY. & SIZE			
R 35	1.42	4" SDR 35	(1) 3' x 3'			
R 35	1.89	4" SDR 35	(1) 3' x 3'			
R 35	1.89	4" SDR 35	(1) 3' x 3'			
R 35	1.89	4" SDR 35	(1) 3' x 3'			
R 35	1.89	4" SDR 35	(1) 3' x 3'			
R 35	2.37	4" SDR 35	(1) 4' x 4'			
R 35	2.37	6" SDR 35	(1) 4' x 4'			
R 35	2.37	6" SDR 35	(1) 4' x 4'			
R 35	2.37	6" SDR 35	(2) 4' x 4'			
R 35	2.37	6" SDR 35	(1) 4' x 4'			
R 35	2.37	6" SDR 35	(2) 4' x 4'			
R 35	2.37	6" SDR 35	(2) 4' x 4'			
R 35	2.37	6" SDR 35	(2) 4' x 4'			
		PENDING ON				
intech"). Ne supplied infi mation supp	ather this drawing, nor prmation upon which the alied by others.	any part thereof, may be u e drawing is based and ac	sed, reproduced or modifie tual field conditions are en	d in any manner countered as site		
. BYPASS CURB (FTIBC) ATION DETAIL						

#### SECTION (\_\_\_\_\_) Filterra<sup>\*</sup>– Vault Configuration Bioretention System Standard Specification

1.0 <u>GENERAL</u>

- 1.1 This item shall govern the furnishing and installation of the Filterra<sup>®</sup> Bioretention System by Contech Engineered Solutions LLC, complete and operable as shown and as specified herein, in accordance with the requirements of the plans and contract documents.
- 1.2 Contractor shall furnish all labor, materials, equipment and incidentals necessary to install the bioretention system, appurtenances and incidentals in accordance with the Drawings and as specified herein.
- 1.3 Bioretention system shall utilize the physical, chemical and biological mechanisms of an engineered biofiltration media, plant and microbe complex to remove pollutants typically found in urban stormwater runoff. The treatment system shall be a fully equipped, preconstructed, drop-in-place unit designed for applications in the urban landscape to treat contaminated runoff from impervious surfaces.
- 1.4 Bioretention system shall be capable of stand-alone stormwater treatment.1.5 Bioretention plants shall be incorporated into the system with plant material extending into
- the treatment zone of the engineered media at time of Activation.
  1.6 The bioretention system shall be of a type that has been installed and in use for a minimum of five (5) consecutive years preceding the date of installation of the system. The Manufacturer shall have been, during the same consecutive five (5) year period, engaged in the engineering design and production of systems deployed for the treatment of stormwater runoff and which have a history of successful production, acceptable to the Engineer of Record and/or the approving Jurisdiction. The Manufacturer of the Filterra Bioretention System shall be, without exception:

#### Contech Engineered Solutions LLC

#### 9100 Centre Pointe Drive West Chester, OH, 45069 Tel: 1 800 338 1122

- 1.7 Applicable provisions of any Division shall govern work in this section.
- 1.8 American Society for Testing and Materials (ASTM) Reference Specifications 1.8.1 ASTM C857: Standard Practice for Minimum Structural Design Loading for

1

Underground Precast Concrete Utility Structures 1.8.2 ASTM C858: Standard Specification of Underground Precast Concrete Utility

## Structures

## \_\_\_\_\_

- 1.8.3 ASTM C990: Standard Specification for Joints for Precast Box Sections Using Preformed Flexible Joint Sealants
- 1.8.4 ASTM C109: Standard Test Method for Compressive Strength of Hydraulic Cement Mortars

#### 1.9 Manufacturer or authorized supplier to submit shop drawings for bioretention System with the vault, engineered biofiltration media and accessory equipment. Drawings shall include principal dimensions, engineered biofiltration media placement, location of piping and unit

- foundation. 1.9.1 Manufacturer or authorized supplier shall submit installation instructions to the contractor.
- 1.9.2 Manufacturer or authorized supplier shall submit Operations and Maintenance Manual to the contractor.
- 1.9.3 Before installation of the bioretention system, Contractor shall obtain the written approval of the Engineer of Record for the system drawings.

# 1.10 No product substitutions shall be accepted unless submitted 10 days prior to project bid date, or as directed by the Engineer of Record. Submissions for substitutions require review and approval by the Engineer of Record, for hydraulic performance, impact to project designs, equivalent treatment performance, and any required project plan and report (hydrology/hydraulic, water quality, stormwater pollution) modifications that would be required by the approving jurisdictions/agencies. Contractor to coordinate with the Engineer of Record any applicable modifications to the project estimates of cost, bonding amount determinations, plan check fees for changes to approved documents, and/or any other regulatory requirements resulting from the product substitution.

2.0 MATERIALS

# 2.1 Internal components including engineered biofiltration media, underdrain stone, PVC underdrain piping, and mulch must be included as part of the bioretention system and shall be provided by Contech Engineered Solutions LLC. Note that vegetation is an essential component of bioretention systems, and shall be provided at time of Activation by the contractor.

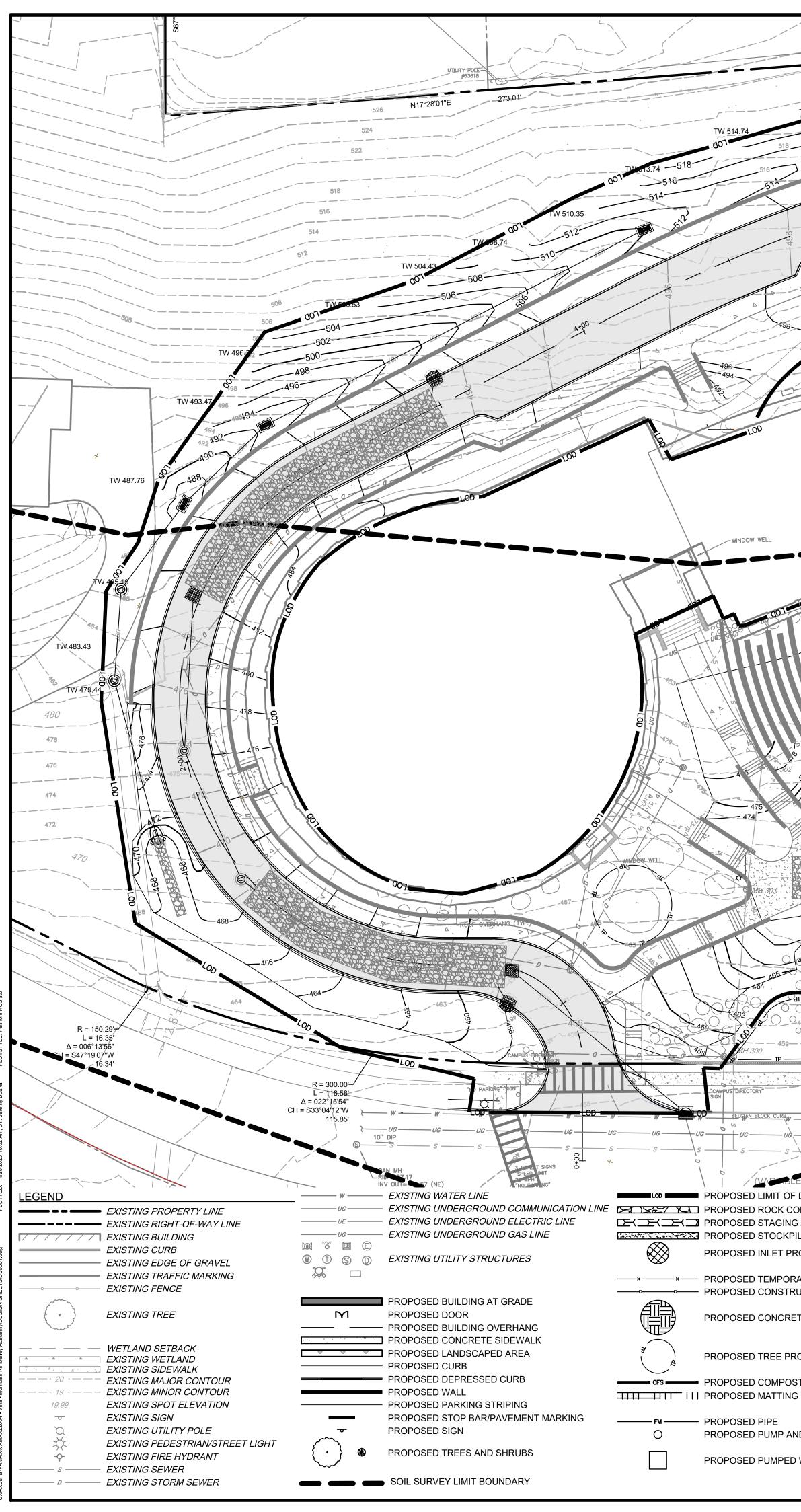
- 2.1.1 Engineered biofiltration media shall consist of both organic and inorganic components. Stormwater shall be directed to flow vertically through the media profile, saturating the full media profile without downstream flow control.
- 2.1.2 Underdrain stone shall be of size and shape to provide adequate bridging between the media and stone for the prevention of migration of fine particles. Underdrain stone must also be able to convey the design flow rate of the system without restriction and be approved for use in the Filterra Bioretention System by Contech Engineered Solutions LLC.
- 2.1.3 PVC Underdrain Piping shall be SDR35 with perforation pattern designed to
  - 2

#### convey system design flow rate without restriction.

- 2.1.4 Mulch shall be double shredded wood or bark mulch approved for use with the Filterra Bioretention System by Contech Engineered Solutions LLC.
- 2.2 Precast concrete vault shall be provided by Manufacturer or authorized supplier according to ASTM C857 and C858.
- 2.2.1 Vault joint sealant shall be Conseal CS-101 or approved equal. Joints shall be sealed with preformed joint sealing compound conforming to ASTM C 990.
- 2.2.2 If interior concrete baffle walls are provided, baffle walls shall be cast-in or sealed to the interior vault walls and floor with a polyurethane construction sealant rated for use below the waterline, SikaFlex 1a or equal. Contractor to provide sealant material and installation unless completed prior to shipment.
- 2.3 Tree grates and access covers shall be cast iron. Tree grate frames shall be galvanized steel.
- 2.4 Curb Nosing (where applicable) shall be galvanized steel and where specified shall be cast into a top slab designed to support a minimum of H5 loading at the curb.
- 2.5 All contractor-provided components shall meet the requirements of this section, the plans specifications and contract documents. In the case of conflict, the more stringent
- specification shall apply.
   2.5.1 Crushed rock base material shall be six-inch minimum layer of ¾-inch minus rock. Compact undisturbed sub-grade materials to 95% of maximum density at +/-2% of optimum moisture content. Unsuitable material below sub-grade shall be
- replaced to engineer's approval.
  2.5.2 Concrete shall have an unconfined compressive strength at 28 days of at least 3000 psi, with ¾-inch round rock, a 4-inch slump maximum, and shall be placed
- within 90 minutes of initial mixing.
  2.5.3 Silicone Sealant shall be pure RTV silicone conforming to Federal Specification Number TT S001543A or TT S00230C or Engineer approved.
- 2.5.4 Grout shall be non-shrink grout meeting the requirements of Corps of Engineers CRD-C588. Specimens molded, cured and tested in accordance with ASTM C-109 shall have minimum compressive strength of 6,200 psi. Grout shall not exhibit visible bleeding.
- 2.5.5 Backfill material shall be ¾-inch minus crushed rock, or approved equal.
- 2.5.6 Vegetation shall comply with the type and size required by the approved drawings and shall be alive and free of obvious signs of disease. Vegetation shall be of species listed in approved Filterra Plant list or otherwise approved by Manufacturer. Vegetation shall be supplied by Contractor prior to Activation.

3

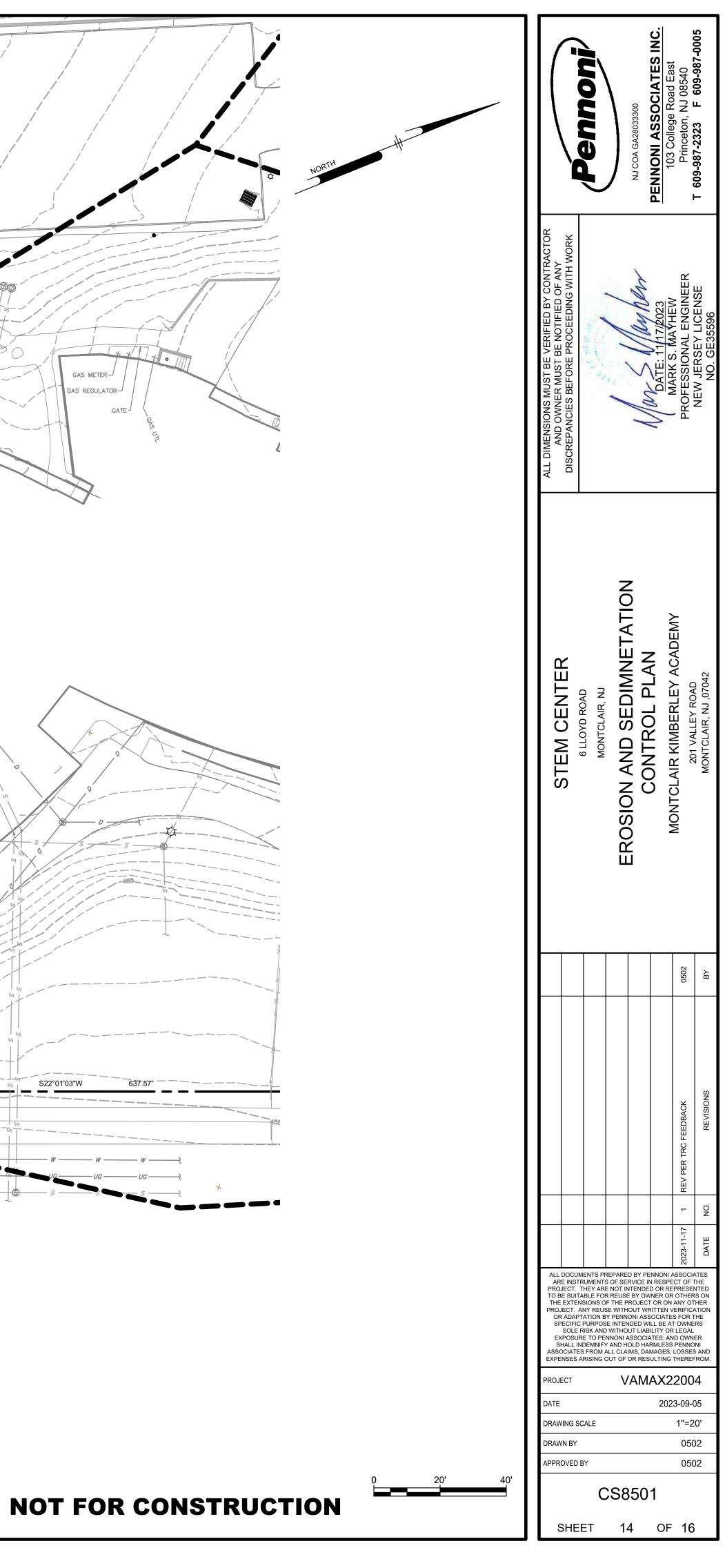
<ul> <li>3.0 <u>PERFORMANCE</u></li> <li>3.1 Treatment Capabilities shall be verified via third-party report following either TAPE or TARP protocols.</li> <li>3.1.1 Engineered biofiltration media minimum treatment flow rate shall be 140"/hr. The system shall be designed to ensure that high flow events shall bypass the engineered biofiltration media preventing erosion and resuspension of pollutants.</li> <li>3.1.2 The system shall remove a minimum of 85% Total Suspended Solids (TSS).</li> </ul>			hennoni	NJ COA GA2803	103 College Road East Princeton, NJ 08540	T 609-987-2323 F 609-987-0005
<list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item>		ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK	ar new real real	1 Ann 5 Way her	ATE: 11/17/2 RK S. MAYI SSIONAL EI	NEW JERSEY LICENSE NO. GE35596
<ul> <li>4.2 Inlet and outlet pipes shall be attached to provided couplers or grouted in and connected to precast concrete vault according to Engineer's requirements and specifications.</li> <li>4.3 All throat and grate protection covers shall remain in place until the system is activated.</li> <li>4.4 Contractor to cast-in-place throat inlet to convey stormwater into bioretention System according to Engineer's requirements and specifications.</li> <li>4.5 Engineered biofiltration media shall be delivered installed in the vault, unless otherwise agreed upon with the Manufacturer. Contractor shall take appropriate action to protect the endia from sediment and other debris during construction. The method ultimately selected shall be at Contractor's discretion and Contractor's risk.</li> <li>4.5 If media is shipped separately from vault, Manufacturer or a Manufacturer's ourse installation in order to ensure proper installation.</li> <li>4.6 The bioretention system shall not be placed in operation (activated) until the project site is the includes any urface that contributes storm drainage to the system. All impereable surfaces shall be clean and free of dirt and debris. All casth basins, manholes and pipes shall supplier, and includes planting of the vegetation provided by the Contractor.</li> <li>4.7 Both correctly installed system shall include a Final Inspection performed by Manufacturer or authorized supplier, and includes of the system and include the following.</li> <li>4.7.1 System inspection to help owner establish proper routine maintenance intervals.</li> <li>4.7 De nsure long terms performance of the bioretention system, continuing annual material and trasks, much removaj, engineered biofiltration media evaluation; plant health evaluation and pruning; replacement of mulch, disposal of all maintenance refuse items; and updating of maintenance records.</li> <li>4.7 De nsure long term performance of the bioretention system, continuing annual maintenance programs should be performed or purchased by the come</li></ul>		STEM CENTER	6 LLOYD ROAD MONTCLAIR, NJ	UTILITY DETAILS 2		201 VALLET NOAD MONTCLAIR, NJ ,07042
5						BY
						REVISIONS
						Öz
		PROJECT. TO BE SUIT THE EXTE PROJECT. OR ADAF SPECIFIC SOLE EXPOSU SHALL I ASSOCIATE	THEY ARE N ABLE FOR R NSIONS OF T ANY REUSE Y TATION BY F C PURPOSE I RISK AND W RE TO PENN NDEMNIFY AI	OT INTENDE EUSE BY OW HE PROJECT WITHOUT WE ENNONI ASS VTENDED WI THOUT LIAB DNI ASSOCIA ND HOLD HAI CLAIMS, DAI	N RESPECT OF " D OR REPRESE! NER OR OTHER OR ON ANY OT RITTEN VERIFIC. SOCIATES FOR T LL BE AT OWNE ILITY OR LEGAL NTES; AND OWN RMLESS PENNO WAGES, LOSSES ULTING THEREF	NTED RS ON THER ATION THE ERS - IER DNI S AND
		PROJECT DATE		VAM	AX2200	
		DRAWING S	CALE		AS NOTE	
		APPROVED		6003	050	
NOT FOR CONS	TRUCTION	SHE		13	OF 16	ò



	1							
NO# TW 516	-95 TW 517.20 IW 5	517.45	007		- 001 - r	x BELGIA	N BLOCK CURB	; ; ;
5 <sup>22</sup> TW 516.71 00520		N0#	516	512-				
520     1801       TW 514.74     518       001     518		_/	6+00		8	6+	75	
516			BELGIANDEL	/ /	510			
5+00				LOD - 505	TW 509.00		/	
<b>Vanh</b>	TV 507.46	V -10.19	TW 51					 90
498 496	NG				- 185			30
494 194						0		
LOD	N	IULTI S	STORY S	SCHOOL BU	JILDING			
LIMIT OF DISTURBANC								$\checkmark$
		007	<u> </u>	002-			0	
							5     5	
001	or of the other	A			*	75-5	007	
ST ST ST			000		D_ 40			
		-473-	LOD				LODIES S	
	100		1	D		rΒ	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	0
	LOD			D	JVV	ID	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	, s /
475			·					X
								S
							77.02	
468 -469			·			*	10	5.
465				×	0			
	16.9' 57	* <u>0</u>			 459			
	BELGIAN BELGIAN		- <i>D</i>					
IGN "EVENTS" SIGN "NO PARKING" SIGN	WW _W	3						
s s s s s s s s s s s s s s s s s s s			UG S			UG	uc — uc — s — s —	
ROPOSED LIMIT OF DISTURBANCE ROPOSED ROCK CONSTRUCTION ENTRANCE	O STEM CENTER SOILS SUMMARY CHA NRCS WEB SOIL SURVEY, ESSEX COUNTY, NE		AUGUST 2, 2023		-			
ROPOSED STAGING AREA ROPOSED STOCKPILE ROPOSED INLET PROTECTION	NAME	GROUP	SLOPES (%)	DEPTH SEASONAL HIGH WATER TABLE (IN)		LIMITATIONS		
ROPOSED TEMPORARY CHAIN LINK FENCE ROPOSED CONSTRUCTION FENCE	BowrB, URBAN LAND	С	0-8	>80	N/A	N/A		
ROPOSED CONCRETE WASHOUT			05.00					
ROPOSED TREE PROTECTION	YaohEh, HOLYOKE COMPLEX	C	35-60	>80	20-39	N/A		
ROPOSED MATTING								

PROPOSED PUMP AND SUMP PIT

PROPOSED PUMPED WATER FILTER BAG



FRUSION AND SEDIMENT CONTROL" 7" EUTION LAST REVISED DECEMBER 2017. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE	1. <u>SITE_PREPARATION</u>
ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE <u>"NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL</u> " 7 <sup>TH</sup> EDITION LAST REVISED DECEMBER 2017. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT	A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD B DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
RESTABILIZATION IS ESTABLISHED. <u>SEEDING DATES:</u> THE FOLLOWING SEEDING DATES ARE RECOMMENDED TO BEST ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE	<ul> <li>B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION THE SUBSOIL SHALL BE EVALUATED COMPACTION IN ACCORDANCE WITH THE STANDARDS FOR LAND GRADING.</li> </ul>
HEPSCD: <u>SPRING – 3/1–5/15</u> AND <u>FALL – 8/15 – 10/1</u> SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.	C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ( ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE W THE STANDARD FOR TOPSOILING.
MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.	D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AN WATERWAYS.
ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCORRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX -	2. <u>SEEDBED_PREPARATION</u> A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD A
(862) 333-4507 OR EMAIL - INFORMATION@HEPSCD.ORG THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY. NJ - DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862-333-4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A	FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-11 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHER AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER
PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.	<ul> <li>ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.</li> <li>B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES W A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR</li> </ul>
ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED, AS PER THE STANDARDS FOR TOPSOILING AND LAND GRADING, LAST REVISED DECEMBER 2017. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.	DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED. C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SH.
A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 ½ -1"CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE	BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIAT SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.
APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED. IN WRITING. FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTSNEW_OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE	3. <u>SEEDING</u> A. SELECT A MIXTURE FROM BELOW OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE
IMPLEMENTED AS CONDITIONS WARRANT.  3. TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION  . SITE PREPARATION	EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOU CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED. APPLY SEED AS FOLLOWS:
A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING, ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG. 19-1,	WATERWAY MIX: - STRONG CREEPING RED FESCUE AT 130 POUNDS/ACRE OR 3 POUNDS/1000 SQ.FT.; OPTIMUM SEEDIN
IN "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" (SSESCNJ). B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSION, GRADE STABILIZATION STRUCTURES, CHANNEL	DATES: 8/15-10/15, ACCEPTABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14* - KENTUCKY BLUEGRASS AT 50 POUNDS/ACRE OR 1 POUND/1000 SQ.FT.; OPTIMUM SEEDING DATES
STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE SSESCNJ ENGINEERING STANDARDS. C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED TO A 6" MINIMUM DEPTH. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).	8/15-10/15, ACCEPTABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14* - PERENNIAL RYEGRASS AT 20 POUNDS/ACRE OR 0.5 POUNDS/1000 SQ.FT.; OPTIMUM SEEDING DATES 8/15-10/15, ACCEPTABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14*
SEEDBED PREPARATION	OR, REDTOP AT 10 POUNDS/ACRE OR 0.05 POUNDS/1000 SQ.FT PLUS WHITE CLOVER AT 5 POUNDS/AC OR 0.1 POUNDS/1000 SQ.FT.: OPTIMUM SEEDING DATES 8/15-10/15, ACCEPTABLE SEEDING DATES: 3/1-
A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE AT THE RATE OF 2	& 5/1-8/14* GENERAL LAWN/RECREATION:
TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.	- BLEND OF HARD FESCUE AND/OR CHEWING FESCUE AND/OR STRONG CREEPING RED FESCUE AT 17 POUNDS/ACRE OR 4 POUNDS/1000 SQ.FT. WITH PERENNIAL RYEGRASS AT 45 POUNDS/ACRE OR 1 POUND/ACRE PLUS KENTUCKY BLUEGRASS BLEND AT 45 POUNDS/ACRE OR 1 POUND/1000 SQ.FT.; OPTIMUM SEEDING DATES 8/15-10/15, ACCEPTABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14*
C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.	* IF SITE IS IRRIGATED 1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO
D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, SSESCNJ PG 1-1.	50% REDUCTION IN RATES MY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APP TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE.
A. APPLY SEED AS FOLLOWS: COOL SEASON: PERENNIAL RYEGRASS AT 100 POUNDS/ACRE OR 1 POUND/1000 SQ.FT.; OPTIMUM SEEDING DATES:3/1-5/15 & 8/15-10/1;	2. WARM SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 85 DEGREES F AND ABOVE. SEE TABLE $4-3$ IN
WARM SEASON: PEARL MILLET AT 20 POUNDS/ACRE OR 0.5 POUNDS/1000 SQ.FT. OPTIMUM SEEDING DATES.5/15-8/15; OPTIMUM SEED DEPTH: 1.0 INCHES	SSESCNJ, MIXTURES 1 TO 7. PLANTING RATES FOR WARM SEASON GRASSES SHALL THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS. 3. COOL SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT
THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF THE SPECIFIED SEED AND PLANTING DATES WITH THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.	TEMPERATURES BELOW 85 DEGREES F. MANY GRASSES BECOME ACTIVE AT 65 DEGREES F. SEE TABLE 4–3 IN SSESCNJ, MIXTURES 8–20. ADJUSTMENT OF PLAN RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.
	SEASON GRASSES.
<ul> <li>B. SEEDING RATE FOR WARM SEASON GRASS SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED (PLS) AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.</li> <li>C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.</li> </ul>	B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.	CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESNJ, FIGURE 7–1, PG. 7–5 FOR PLANT HARDINESS ZONES.	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> </ul>
<ul> <li>DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.</li> <li>C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.</li> <li>D. REFER TO SSESNJ, FIGURE 7–1, PG. 7–5 FOR PLANT HARDINESS ZONES.</li> <li>E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS.</li> <li>F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.</li> <li>G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED</li> </ul>	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAKED</li> </ul>
<ul> <li>DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.</li> <li>C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.</li> <li>D. REFER TO SSESNJ, FIGURE 7–1, PG. 7–5 FOR PLANT HARDINESS ZONES.</li> <li>E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS.</li> <li>F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.</li> <li>G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE</li> </ul>	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MA BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION 4 BELOW, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH.</li> </ul>
<ul> <li>DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.</li> <li>C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.</li> <li>D. REFER TO SSESNJ, FIGURE 7–1, PG. 7–5 FOR PLANT HARDINESS ZONES.</li> <li>E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS.</li> <li>F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.</li> <li>G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BE CAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR</li> </ul>	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MA BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION 4 BELOW, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO</li> </ul>
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESNJ, FIGURE 7–1, P.G. 7–5 FOR PLANT HARDINESS ZONES. E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS. F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULCI CUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4, MULCHING). HYDROSEEDING IS NOT A PREFERED SEEDING METHOD BECAUSES SEED AND FERTILIZER RAR APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC. H. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO—SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE. THIS IS THE PREFERED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON—SITE WILL BE MAXIMIZED. H. MULCHING MULCHING IS REQUIRED ON ALL SEEDING, MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MA BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION 4 BELOW, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT T TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>4. MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZAT 5. I<u>RRIGATION (WHERE FEASIBLE)</u></li> <li>IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH</li> </ul>
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESNJ, FIGURE 7–1, PG. 7–5 FOR PLANT HARDINESS ZONES. E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS. F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPPER ON COARSE TEXTURED SOIL. G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND SPRAYING THE MIX ONTO THE PROPARES SEED FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC. H. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING AND WATER CONSERVATION ON—SITE WILL BE MAXIMIZED. MULCHING MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL ROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EORSION SHALL BE IEROSION WILL BE MINIMIZED AND WATER CONSERVATION ON—SITE WILL BE MAXIMIZED. MULCHING MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL ROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE IEROMOTE FASTER	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MA BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED A FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED FOR CONVENTIONAL EQUIPMENT T TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>4. MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION. (WHERE FEASIBLE)</li> <li>IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR I WEATHER OR ON DROUGHTY SITES.</li> </ul>
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESNJ, FIGURE 7–1, PG. 7–5 FOR PLANT HARDINESS ZONES. E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS. F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4, MULCHINO). HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH MORKS, STUMPS, ETC. H. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARINY, AND IMPROVE SEEDING. METRED CONSERVATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH PERFORMED ON THE CONTOUR, SHEET TROSION WILL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED. MULCHING MULCHING ENDINIE ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL CONTACT, RESTORE CAPILLARINY, AND IMPROVE SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE VILCHING MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION SHEFT TO CONTROL SOIL EROSION SHALL BE DESTEM	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER, EXC FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOLL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRATING THE MIX ONTO THE PREPARED SEEDEDED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MA BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION 4 BELOW, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GEMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT T TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>4. MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZA' 5. IRRIGATION (WHERE FEASIBLE)</li> <li>IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR I WEATHER OR ON DROUGHTY SITES.</li> <li>6. TOPDRESSING</li> <li>SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDEDED PREPARATION, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY MADE WHERE GROSS NITROGEN FERTILIZER (EVATER INSOLUBLE) IS PRESCRIBED IN SECTION 2,</li></ul>
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESNJ, FIGURE 7–1, PG. 7–5 FOR PLANT HARDINESS ZONES. E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS. F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEED RALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4, MULCHING). HYDROSEEDING IN OT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SULLCONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC. H. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARTY, AND IMPROVE SEEDING MULCH WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARTY, AND IMPROVE SEEDING MERCING. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED. H. MULCHING AUCHING IS REQUIRED ON ALL SEEDING, MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND LEARLIER ESTABLISHMENT. A STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIE	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXI, FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FRETILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH M// BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT T TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>4. MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZA'</li> <li>5. I<u>RRIGATION (WHERE FEASIBLE)</u></li> <li>IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUARTY STES.</li> <li>6. TOPDRESSING</li> <li>SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED FOR REILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED PREPARATION, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY MADE WHERE GROSS NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED PREPARATION, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY MADE WHERE GROSS NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED P</li></ul>
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESNJ, FIGURE 7-1, PG. 7-5 FOR PLANT HARDINESS ZONES. E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS. F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGTATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE 4PPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE MOUNTED TANK, WITH AR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC. H. ATER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING MERCENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED. MULCHING MULCHING MULCHING MULCHING IS REQUIRED ON ALL SEEDING, MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPUTANCE WITH THIS MULCHING REQUIREMENT. A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQU	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTRACKER SEEDER. EXE FOR DRILLED, HYDROSEEDED OR CULTRACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOLL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING, DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOLL.</li> <li>C. AFTER SEEDING, FIRMING THE SOLL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOLL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MA BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION 4 BELOW, MULCHING). HYDROSEEDING IS NOT A PREFERED SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT T TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZA 5. IRRIGATION (WHERE FEASIBLE)</li> <li>IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR I WEATHER OR ON DROUGHTY SITES.</li> <li>IOPDRESSING</li> <li>SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED PREPARATION, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY MADE WHERE GROSS NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIB</li></ul>
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESNJ, FIGURE 7–1, PC. 7–5 FOR PLANT HARDINESS ZONES. E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS. F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLOME (DENTRIFUCAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLORMLY BY HAND, CYCLOME (DENTRIFUCAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLORMLY BY HAND, CYCLOME (DENTRIFUCAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLORMLY BY HAND, CYCLOME (DENTRIFUCAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLORMLY BY HAND, CYCLOME (DENTRIFUCAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. DATORY TO PROFINE DENTRIFUENT OF THE SED SHALL BE INCORPORATED INTO THE SOIL TO A DEFTH OF 7/4 TO 1/2 INCH BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT: MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. G. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGTISTING DAND HYDRAULLO PUMP FOR MIXING SEED METHOD. SHORT FIDERED MULCH MAY BE APPLIED WITH A HYDROSEDEDER FOLLOWING SEEDING, MAY BE AND NOT INCORPORATED INTO THE PREPARED SEEDIED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHONT FIDERED MULCH MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC. H. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING MUTCH A CORRUGATED ROLLER WILL ASSURE GOND SEED-OTENICOL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED. 4. MULCHING AULCHING HAIL UNRORTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION SUFFICIENT TO CONTROL S	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTRACKER SEEDER. EXC FOR DRILLED, HYDROSEEDED OR CULTRACKED SEEDINGS, SEED SHALL BE INCORPORATE INTO THE SOLL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOLL.</li> <li>C. AFTER SEEDING, FIRMING THE SOLL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOLL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MA BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTON 4 BELOW, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AM FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO SIEEP FOR CONVENTIONAL EQUIPMENT T TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZA' 5. IRRIGATION (WHERE FEASIBLE)</li> <li>IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR I WEATHER OR ON DROUGHTY SITES.</li> <li>TOPDRESSING</li> <li>SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED PREPARATION, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY MADE WHERE GROSS NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRI</li></ul>
DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES. C. GRASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED. D. REFER TO SSESN., FIGURE 7-1, PG. 7-5 FOR PLANT HARDINESS ZONES. E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS. F. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR OLLITIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RANING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGTIATION SYSTEM AND HYDRAULEC PUMP FOR MIXING SEED, WATER AND FRANTING THE MIX. ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDING IS A BROADCAST SEEDING, (MISO SEED, WATER AND FRANTIJER AND SERDEND G. NOT A PRE- PEREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDING CONTACT OCCURS REDUCING SEED CRAMINATION AND CONTON THEORNAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH NOCKS, STUMPS, ETC. H. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUCATED ROLLER WILL ASSUE GOOD SEED-FOOL CONTACT CONTOURS SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED. MULCHING IS REQUIRED ON ALL SEEDING, MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL REMONTIONE DEARLER ESTABLISHMENT. THE EXISTENCE OF VECETATION SUFFICIENT TO CONTROL SOIL CONTACT, RESIONS FIRETER AND EARLER ESTABLISHMENT. THE EXISTENCE OF VECETATION SUFFICIENT TO CONTROL SOIL SHALL BE REMED COMPLANCE MINING THESE MICH MERGURENEENT. A STRAW OR HAY, UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AND WILL REGORDING SHAL	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKED SEEDING, SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING, DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERED METHOD. WHEN DERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULED PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRATING THE MIX ONTO THE PREPARED SEEDMED (LASS SEE SECTION A BE APPLIED WITH A HYDROSEEDEN FOLLOWING SEEDING GAING SEED, WATER AND FERTILIZER AND SPRATING THE MIX ONTO THE PREPARED SEEDING MULCH SEED, WATER AND FERTILIZER AND SPRATING THE MIX ONTO THE PREPARED SEEDING MULCH MA BE APPLIED WITH A HYDROSEEDENT FOLLOWING SEEDING GAING SEED AND HYDRAULCH MA BE APPLIED UTH A WITH SOESEDER FOLLOWING SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT T TRAVENES ON OO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZAS 5. IRRIGATION, NO FOLLOWICTED WITH NOCKS ARE MADE IN ABNORMALLY DRY OR I WEATHER OR ON DROUGHTY SITES.</li> <li>IOPDRESSING</li> <li>SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDEDED PREPARATION, NO FOLLOW' EXISTS TO THE EXTENT THAT TURF FAILURE MAY EDEVELOP. IN THAT INSTANCE, TOPORESS WITH 10-10-10 C EQUIVALENT AT 300 POUNDS PER ACRO OR O DROUGHTY SITES.</li> <li>IOPDRESSING</li> <li>SINCE SLOW RELEASE NIT</li></ul>
<ul> <li>DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.</li> <li>C. GARASSES MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.</li> <li>D. REFER TO SSESNI, FIGURE 7-1, PG. 7-5 FOR PLANT HARDINESS ZONES.</li> <li>E. PLANTING DEPTHS SHOULD BE DOUBLED FOR SANDY SOILS.</li> <li>F. CONVENTIONAL SEEDING: APPLY SEED UNFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTRACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTRACKER SEEDER SEED FLACEMENT MAY BE 1/4</li> <li>INCH DEEPER NO. COARSE TEXTURED SOIL.</li> <li>ON WORDSTEIN AND HYDROALCE PUMP FOR MXING SEED, WATER AND FERTILIZER AND SPRAING THE MX ONTO THE VIEND SEEDENG SEEDING SEEDENG SEEDING SEEDENG SEEDING SEEDENG SEEDING SEEDER DRUCH MY BE APPLIED TO THE SURFACE AND DATAING FINAL MAY BE APPLIED TO REPORT DEAD NOT INCORPORATIO INTO THE SURFACE AND DATAING SING THE MX ONTO THE SURFACE AND DATAING SING THE MX ONTO THE SURFACE MATHOR SEEDING WATER ADD TERTILIZER AND APPLIED TANK. WITH AN PROFESEDING SEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4, MULCHING), HYDROSEEDING MAY BE USED FOR AREAS TO SUBCE FOR COLONING SEEDING. MALE BURNEL BURNEL MAY DRUCH MAY BE APPLIED TO A STREEPE MULCH MAY BE APPLIED TO A STREEPE MULCH MAY BE APPLIED TO A STREEPEND.</li> <li>MULCHING SEEDING SUBJECT OR CONVENTIONAL EQUIPMENT TO TRAVERSE OF TOO GOSTRUCTURE WITH A CORS STUMPS, ETC.</li> <li>MULCHING IS REDURG ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL GONTALT, RESTORE COPY SEEDING BURNEL EUROPERATION ON -STEE WILL BE MAXIMIZED.</li> <li>MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL RECONTOUR, SHALL BE MXIMIZED AND WILL RESURFED AGAINST EROSTON BURNEL AND MERGANG. THE SITUP OF THE SURFACE. THE WILL BE MAXIMIZED.</li> <li>MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSTON BEFORE GRASS IS ESTABLISHED AND WILL RECONTOUR, STANK, MHY FREE OF SEEDING, RUCH TO</li></ul>	<ul> <li>CYUCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTPACKER SEED SHALL BE INCORPORATE INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO INCH, BY RAKING OR DRAGGING, DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEF ON COARSE TEXTURED SOIL.</li> <li>C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. T IS THE PREFERED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WIL BE MINIMIZED AND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.</li> <li>D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOLINED TANK, WITH AN ACITATION SYSTEM AND HYDRAULC PUMP FOR MIXIMU SEED, WATER AND FERTILIZER AND SPRATING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MU BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION 4 BELOW, MULCHING). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AN FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. PO SEED TO SOIL CONTACT OCCURS, REDUCING SEED GEMINIATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT T TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.</li> <li>4. MULCHING – SEE PARAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZE 5. IRRIGATION (WHERE FEASIBLE)</li> <li>IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR I WEATHER OR ON DROUGHTY SITES.</li> <li>6. IOPDRESSING</li> <li>SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED PREPARATION, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY MADE WHERE GROSS NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, SEEDBED, PREPARATION, NO FOLLOW-UP OF TOPDRESSING IS AMADATORY. AN</li></ul>

#### TATIVE COVER FOR SOIL STABILIZATION

- ED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED EEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE ANCE WITH STANDARD FOR LAND GRADING.
- OR TO SEEDING AND TOPSOIL APPLICATION THE SUBSOIL SHALL BE EVALUATED FOR ACCORDANCE WITH THE STANDARDS FOR LAND GRADING.
- BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON DIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH OR TOPSOILING
- EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, TION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND
- Y GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND ING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS XTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS TENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 NITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE ED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY
- APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING. FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH DOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR ON SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A
- JCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL H A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING ATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR EMENTS.
- RE FROM BELOW OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE IATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL ISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 ESS RETESTED. APPLY SEED AS FOLLOWS:
- RED FESCUE AT 130 POUNDS/ACRE OR 3 POUNDS/1000 SQ.FT.; OPTIMUM SEEDING CCEPTABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14\*
- ASS AT 50 POUNDS/ACRE OR 1 POUND/1000 SQ.FT.; OPTIMUM SEEDING DATES ABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14\*
- RASS AT 20 POUNDS/ACRE OR 0.5 POUNDS/1000 SQ.FT.; OPTIMUM SEEDING DATES ABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14\*
- DUNDS/ACRE OR 0.05 POUNDS/1000 SQ.FT PLUS WHITE CLOVER AT 5 POUNDS/ACRE SQ.FT.; OPTIMUM SEEDING DATES 8/15-10/15, ACCEPTABLE SEEDING DATES: 3/1-4/30

#### ECREATION:

- SCUE AND/OR CHEWING FESCUE AND/OR STRONG CREEPING RED FESCUE AT 175 POUNDS/1000 SQ.FT. WITH PERENNIAL RYEGRASS AT 45 POUNDS/ACRE OR 1 KENTUCKY BLUEGRASS BLEND AT 45 POUNDS/ACRE OR 1 POUND/1000 SQ.FT.; DATES 8/15-10/15, ACCEPTABLE SEEDING DATES: 3/1-4/30 & 5/1-8/14\*
- TES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO CTION IN RATES MY BE USED WHEN PERMANENT VEGETATION IS D PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY THODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA
- ON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT ERATURES, GENERALLY 85 DEGREES F AND ABOVE. SEE TABLE 4-3 IN MIXTURES 1 TO 7. PLANTING RATES FOR WARM SEASON GRASSES SHALL BE NT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING
- ON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT IRES BELOW 85 DEGREES F. MANY GRASSES BECOME ACTIVE AT 65 SEE TABLE 4-3 IN SSESCHJ. MIXTURES 8-20. ADJUSTMENT OF PLANTING COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL 1. MATERIALS
- SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND. TRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT YDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 IG OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER TURED SOIL.
- FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS ED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL ND WATER CONSERVATION ON-SITE WILL BE MAXIMIZED.
- IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR D TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING ND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. IOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY TH A HYDROSEEDER FOLLOWING SEEDING (ALSO SEE SECTION 4 BELOW, DROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.
- RAGRAPH 4 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION FEASIBLE)
- EFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH NIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT 3. SITE PREPARATION GHTY SITES.
- ITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION 2, A NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY BE TROGEN DEFICIENCY EXISTS TO THE EXTENT THAT TURF FAILURE MAY NCE, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 300 POUNDS PER ER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN F IS AMELIORATED.
- NENT VEGETATIVE STABILIZATION
- NENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING D. APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. RATES IN TABLE 4-3. SSESCNJ ARE REQUIRED WHEN A REPORT OF TED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO LICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS REQUEST A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% THE SEEDED SPECIES) AND MOWED ONCE. NOTE THIS DESIGNATION OF
- GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER BE NEGLECTED OR OTHERWISE MISMANAGED.

#### **D. PERMANENT STABILIZATION WITH SOD**

- 1. METHODS AND MATERIALS
- A. HIGH QUALITY CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD.
- B. SOD SHOULD BE FREE OF BROADLEAF WEEDS AND UNDESIRABLE COARSE AND FINE WEED GRASSES. C. SOD SHOULD BE OF UNIFORM THICKNESS, TYPICALLY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING (EXCLUDES TOP GROWTH.).
- D. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS AND ROLLS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- E. FOR DROUGHTY SITES, A SOD OF TURF-TYPE TALL FESCUE OR TURF-TYPE TALL FESCUE MIXED WITH KENTUCKY BLUEGRASS IS PREFERRED OVER A 100% KENTUCKY BLUEGRASS SOD. ALTHOUGH NOT WIDELY AVAILABLE, A SOD OF FINE FESCUE IS ALSO ACCEPTABLE FOR DROUGHTY SITES.
- F. ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 24 HOURS OR LESS DURING SUMMER MONTHS.
- 2. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING, FERTILIZING INCORPORATION OF ORGANIC MATTER, AND OTHER SOIL PREPARATION PROCEDURES. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
- B. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 6 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. SEE STANDARD FOR TOPSOILSING FOR TOPSOIL AND AMENDMENT REQUIREMENTS.
- C. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

#### 3. SOIL PREPARATION

- A. UNIFORMLY APPLY GROUND LIMESTONE. AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (http://njaes.rutgers.edu/county/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED. APPLY ½ THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER. ½ RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES
- B. WORK LINE AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM. FINE SEEDBED IS PREPARED.
- C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO TOPSOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
- D. INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED IN ACCORDANCE WITH THE ABOVE.

#### 3. SOD PLACEMENT

- A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.
- C. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
- D. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, BIODEGRADABLE PLASTIC SPIKES, OR SPLIT SHINGLES.(8 TO 10 INCHES LONG BY  $\frac{3}{4}$  INCH WIDE).
- E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.
- F. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 1 INCH MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS

#### 4. TOPDRESSING

SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION F-2 ABOVE A FOLLOW-LIP TOPDRESSING IS NOT MANDATORY, EXCEPT WHERE GROSS NITROGEN DEFICIENCY EXISTS TO THE EXTENT THAT TURE FAILURE MAY DEVELOP, TOPDRESSING SHALL THEN BE APPLIED. TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1 000 SQUARE FEET E. STANDARD FOR TOPSOILING

- A. TOPSOIL SHOULD BE FRIABLE (1\*), LOAMY (2\*), FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH) IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
- . TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND pH LEVEL.

2. STRIPPING AND STOCKPILING

- A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING
- B. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
- C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL pH TO APPROXIMATELY 6.5.
- D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
- E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE
- F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN. SEE STANDARDS FOR PERMANENT OR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.

- A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE-COVER IN ACCORDANCE WITH THE4 SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE.
- B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. SEE THE SSESCNJ, STANDARD FOR LAND GRADING, PG. 19-1.
- C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A pH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
- D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING, PG. 19-1. E. EMPLOY NEEDED EROSION AND CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL
- STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE SSESCNJ STANDARDS 11 THROUGH 42. 4. APPLYING TOPSOIL
- A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE, I.E. LESS THAN FIELD CAPACITY (SEE SSESCNJ GLOSSARY).
- B. A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5.0 INCHES MINIMUM OR 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY AND/OR INDUSTRY DESIGN STANDARDS ARE APPROPRIATE SUCH AS ON GOLF COURSES, SPORTS FIELDS, LANDFILL CAPPING, ETC. SOILS WITH A pH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A pH OF 5.0 OR MORE, IN ACCORDANCE WITH SSESCNJ PG. 1-1.
- C. PURSUANT TO THE REQUIREMENTS IN SECTION 7 OF SSESCNJ, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME OR ALL OF THE FOLLOWING: SUPPLEMENTAL SEEDING, RE-APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING. SUCH ADDITIONAL MEASURES SHALL BE BASED ON SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.

#### FOOTNOTES (1\*) FRIABLE MEANS EASILY CRUMBLES IN FINGERS, AS DEFINED IN MOST SOILS TESTS.

(2\*) LOAMY MEANS TEXTURE GROUPS CONSISTING OF COARSE LOAMY SANDS, SANDY LOAM, FINE AND VERY FINE SANDY LOAM, SILT LOAM, CLAY LOAM SANDY CLAY LOAM AND SILTY CLAY LOAM TEXTURES AND HAVING LESS THAN 35% COARSE FRAGMENTS (PARTICLES LESS THAN 2mm IN SIZE) AS DEFINED IN THE GLOSSARY OF SOIL SCIENCE TERMS, 1996, SOIL SCIENCE SOCIETY OF AMERICA.

#### F. STABILIZATION WITH MULCH ONLY

#### 1. SITE PREPARATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG, 19-1, IN SSESCNJ.
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSION, GRADE STABILIZATION STRUCTURES. CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS, SEE SSESCNJ ENGINEERING STANDARDS 11 THROUGH 42.

#### 2. PROTECTIVE MATERIALS

- A. UNROTTED SMALL-GRAIN STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL. LIQUID MULCH BINDERS, OR NETTING TIE DOWN, OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE GROUND COMPLETELY UPON VISUAL INSPECTION, I.E. THE SOIL CANNOT BE SEEN **BELOW THE MULCH**
- B. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.
- C. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER.
- D. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED.
- E. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREA WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT. F. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED.

#### MULCH ANCHORING

SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES.

A. PEG AND TWINE - SEE PARAGRAPH 4.A.1 UNDER TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION.

- B. MULCH NETTINGS STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER MULCH. USE DEGRADABLE NETTING IN AREAS TO B MOWED. NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG.
- C. CRIMPER MULCH ANCHORING COULTER TOOL A TRACTOR-DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL PENETRATION SHOULDER BE ABOUT 3 TO 4 INCHES ON SLOPING LAND. THE OPERATION SHOULD BE ON THE CONTOUR.

#### D. LIQUID MULCH-BINDERS:

- 1. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.
- 2. USE THE FOLLOWING:
- a. ORGANIC AND VEGETABLE BASED BINDERS NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS THAT MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANE NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GELS SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTO-TOXIC EFFECT OR IMPEDE GROWTH OF TURF GRASS. VEGETABLE BASED GELS SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER.
- b. SYNTHETIC BENDERS HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS

#### NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESES PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

#### **G. CONSTRUCTION SEQUENCE**

1.	NOTIFY THE COUNTY SOIL CONSERVATION DISTRICT OF CONSTRUCTION START/SOIL DISTURBANCE	2 DAYS
2.	INSTALL EROSION AND SEDIMENT CONTROLS	3 DAYS
3.	CLEAR, STRIP AND GRADE CONSTRUCTION ACCESS TO SITE. STABILIZE IMMEDIATELY. INSTALL STABILIZED STONE CONSTRUCTION ACCESS.	2 DAYS
4.	CLEAR SITE AND STRIP TOPSOIL. STOCKPILE TOPSOIL AND STABILIZE WITH TEMPORARY SEED MIXTURE. REMOVE ALL UNUSABLE MATERIAL FROM SITE.	1 WEEK
5.	REMOVE EXISTING SITE FEATURES AND IMPROVEMENTS AS SHOWN ON THE SITE DEMOLITION PLAN. TEMPORARY SEED & STABILIZE DISTURBED AREAS. ALL DEMOLITION REFUSE TO BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.	3 WEEKS
6.	REMOVE EXISTING STORM DRAINAGE AS SHOWN ON THE SITE DEMOLITION PLAN. INSTALL STORM DRAINAGE COLLECTION SYSTEM. DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEED.	2 WEEKS
7.	ROUGH GRADE CONSTRUCTION AREAS. ALL UNUSABLE MATERIAL SHALL BE REMOVED FROM SITE.	2 WEEKS
8.	CONSTRUCT BUILDING ADDITION AND UTILITITES	12 MONTHS
9.	RECONSTRUCT CURBS, PAVED AREAS, SIDEWALKS, AND LIGHTING.	2 WEEKS
10.	FINISH GRADE LAWN AREAS. FINISH GRADE AREAS NOT SUBJECT TO FURTHER CONSTRUCTION ACTIVITIES. CONSTRUCT SITE HARDSCAPING, AS SHOWN ON THE APPROVED LANDSCAPE SITE PLANS, APPLY 5" OF TOPSOIL.	1 WEEK
11.	SCARIFY THE SOIL SURFACE TO A MINIMUM OF 6 INCHES TO MITIGATE SUBSOIL COMPACTION	1 WEEK
12.	STABILIZE ALL UNPAVED AREAS WITH PERMANENT SEED.	1 WEEK
13.	FINISH PAVE ALL ROADWAYS.	1 WEEK
14.	REMOVE REMAINING SOIL EROSION AND SEDIMENT CONTROL MEASURES UPON APPROVAL OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.	3 DAYS
15.	SUBMIT A COMPLETED SOIL COMPACTION MITIGATION VERIFICATION FORM TO THE SOIL CONSERVATION DISTRICT PRIOR TO THE DISTRICT PERFORMING A REPORT OF COMPLIANCE	1 WEEK

#### INSPECTION NOTES:

DISTRICT.

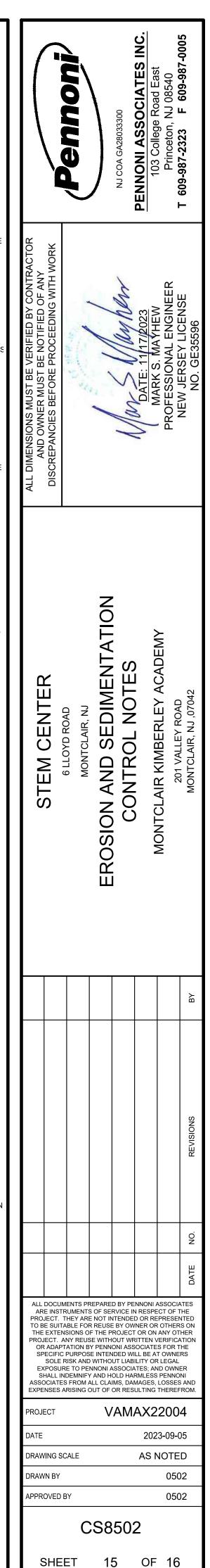
1. SITE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES CONSTRUCTION AND UNTIL PERMANENT SITE STABILIZED HAS BEEN ACHIEVED AND APPROVED BY THE COUNTY CONSERVATION

REGARDING CONSTRUCTION SEQUENCE, CERTAIN TASKS MAY BE PERFORMED CONCURRENTLY WITH OTHER TASKS.

3. SEQUENCE OF LANDSCAPING INSTALLATION SHALL BE AS MOST SUITABLE FOR THE TIME OF INSTALLATION.

\* DURATIONS ARE APPROXIMATE AND ARE DEPENDENT ON WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION \*\* STARTING DATES WILL BE DETERMINED AND COORDINATED WITH THE MUNICIPAL ENGINEER AT THE TIME OF PRECONSTRUCTION MEETING.





DURATION\*

