# PRELIMINARY AND FINAL MAJOR SITE PLAN PREPARED FOR RDM GROUP INC. 558 HALLS MILL ROAD BLOCK 79, LOT 6.01 TOWNSHIP OF FREEHOLD MONMOUTH COUNTY

<b>PROPERTY OWNERS WITHIN 2</b>	200'
PROPERTY OWNER & ADDRESS BLOCK	LOT
INTERNATIONAL VITAMIN CORPORATION 72.06 500 HALLS MILL RD, FREEHOLD, NJ 07728	1
TEDES ASSOCIATES, LLC 79	4
111 PATERSON AVE, HOBOKEN, NJ 07030 QUICK RESPONSE FIRE PROTECTION ETAL 79	6
566 HALLS MILL ROAD, FREEHOLD, NJ 07728 REID SOD FARM 79	7
812 RT 33 E, FREEHOLD, NJ 07728 PATEREK, CHRISTOPHER D 79	8
568 HALLS MILL ROAD, FREEHOLD, NJ 07728	
853 HIGHWAY 33 EAST, FREEHOLD, NJ 07728	20.01
LUNA, OTILLO <u>80.10</u> 561 HALLS MILL ROAD, FREEHOLD, NJ 07728	20.02
REID, J CALVIN, JOYCE, RÁNDALL & DAVID <u>164</u> 812 HIGHWAY 33 EAST, FREEHOLD, NJ 07728	20
REID SOD FARM 164	20
812 HIGHWAY 33 EAST, FREEHOLD, NJ 07728 TOWNSHIP CLERK: TOWNSHIP OF FREEHOLD	
1 MUNICIPAL PLAZA FREEHOLD, NJ 07728	
HOWELL TOWNSHIP CLERK 4567 ROUTE 9 NORTH	
HOWELL, NJ 07731	
NJ NATURAL GAS CO. PO BOX 1464	
WALL, NJ 07719	
CORPORATE SECRETARY – GPU ENERGY 300 MADISON AVENUE	
MORRISTOWN, NJ 07932 GENERAL MANAGER-CABLEVISION OF MONMOUTH	
1501 18TH AVENUE Wall TWP, NJ 07719	
VERIZON NEW JERSEY INCATTN: ROBERT SCHNEIDER 175 WEST MAIN STREET FREEHOLD, NJ 07728	R/MANAGER
BELL ATLANTIC-NEW JERSEY 540 BROAD STREET	
NEWARK, NJ 07101	
COUNTY OF MONMOUTH-HALL OF RECORDS ANNEX 1 EAST MAIN STREET	
FREEHOLD, NJ 07728-1255 PUBLIC SERVICE ELECTRIC & GAS COMPANY, MNGR (	
80 PARK PLAZA, T6B	JUNE, ERUP.
NEWARK, NJ 07102 HOWELL SEWER UTILITIES	
P.O. BOX 580 HOWELL, NJ 07731	
AQUA NEW JERSEY	
10 BLACK FOREST ROAD HAMILTON, NJ 08691	
NEW JERSEY-AMERICAN WATER COMPANY 500 GROVE STREET	
HADDON HEIGHTS, NJ 08035	
BRICK TOWNSHIP MUA 1551 ROUTE 88 WEST	
BRICK, NJ 08724	
JERSEY CENTRAL POWER & LIGHT CO. 331 NEWMAN SPRINGS ROAD, BUILDING 3, SUITE 323 RED BANK, NJ 07701	5
FREEHOLD 200' LIST DATED SEPTEMBER 3, 2019	

HOWELL 200' LIST DATED SEPTEMBER 19, 2018

LI-3 LIGHT INDUSTRIAL <sup>®</sup>								
ITEM	REQUIRED	EXISTING	PROPOSED	VARIANCE				
LOT AREA	3.0 ACRES	6.357 AC.	6.357 AC.	NO				
LOT WIDTH	250'	380.0'	380.0'	NO				
LOT FRONTAGE	250'	350.2'	350.2'	NO				
LOT DEPTH	300'	613.6'	613.6'	NO				
PRINCIPAL BUILDING								
FRONT YARD <sup>(2)</sup>	250'	_	250.0'	NO				
REAR YARD	50'	_	124.3'	NO				
SIDE YARD (EACH)	35'	_	143.1'/35.0'	NO				
MAX. BUILDING HEIGHT <sup>(3)</sup>	35'	_	35.0'	NO				
MAX. FLOOR AREA RATIO	0.25	-	0.25	NO				
MAXIMUM COVERAGE								
BUILDING COVERAGE	25%	_	24.9%	NO				
	69,231 S.F.	_	69,025 S.F.					
IMPERVIOUS COVERAGE	65%	_	52.0%	NO				
	180,002 S.F.	-	144,058 S.F.					

NOTES: 1. SITE IS LOCATED WITHIN THE SCENIC CORRIDOR OVERLAY. 2. 50' SETBACK INCREASED TO 250' FROM RESIDENTIAL ZONE (ZONE BOUNDARY AT ROW CENTERLINE)

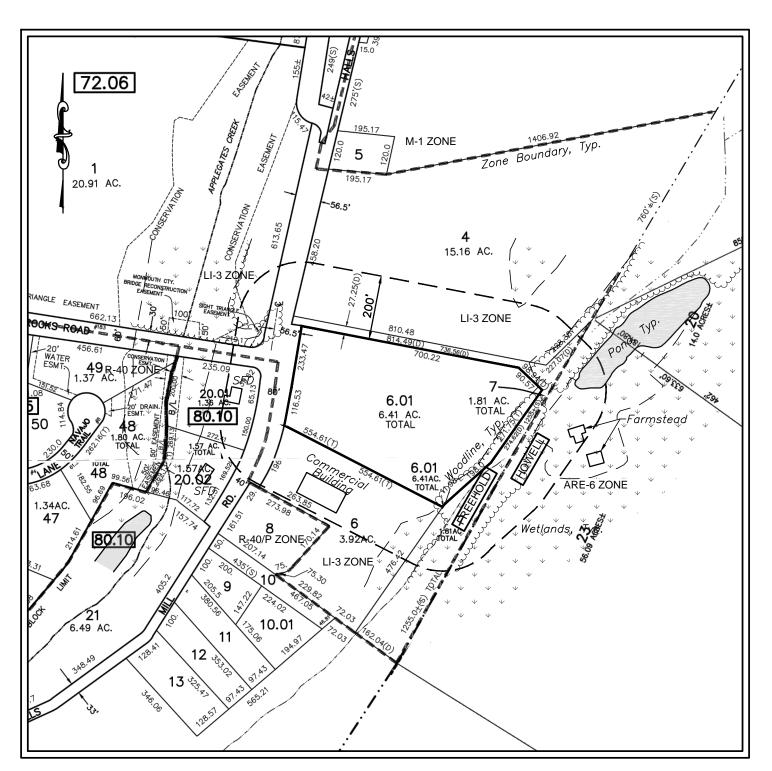
3. BUILDING HEIGHT = HIGHEST POINT OF BUILDING - AVERAGE GRADE ALONG FRONT FACADE AVERAGE GRADE ALONG FRONT FACADE =

[((109.0+108.0) / 2) x 29 + ((109.2+108.0) / 2) x 92 + ((109.2+108.0) / 2) x 92] / 213 = 108.6 PROPOSED BUILDING HEIGHT FROM ARCHITECTS PLANS = 35.0' W/ AVG. GRADE OF 108.6

PROTECT YOURSELF A PHONE CALL CAN BE YOUR INSURANCE POLICY UNDERCO

STUDER GROUND SUBJECT STORE
WHAT YOU DON'T KNOW CAN HURT YOU. THE STATE OF NEW JERSEY REQUIRES NOTHICATION OF EXCAVATORS, DESIGNERS, OR NEW JERSEN PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

IMPERVIOUS COVERAGE							
ITEM	EXISTING	PROPOSED					
PRINCIPAL STRUCTURE	-	69,025 S.F./24.9%					
PARKING/LOADING/DRIVE	_	71,402 S.F./25.8%					
WALKS/MISC.	-	3,631 S.F./1.3%					
TOTAL	_	144,058 S.F./52.0%					



TAX MAP FREEHOLD TAX MAP SHEETS #28, 33.01, 37 & HOWELL TAX MAP SHEET #8.37 ON-SITE WETLANDS PER DELINEATION AND LOI, OFF-SITE WETLANDS PER GEOWEB WOODED AREAS, PONDS AND BUILDING LOCATIONS PER GEOWEB AERIAL PHOTOGRAPHY (SCALE: 1" = 300')

## **RESOLUTION CONDITIONS**

- THERE SHALL BE NO MANUFACTURING OR ASSEMBLY OPERATIONS IN THE SUBJECT BUILDING, ITS USE BEING LIMITED TO RECEIVING, STORAGE AND SHIPPING OF GOODS (SPECIFIC CONDITION #1).
- DELIVERIES TO AND PICK-UPS FROM THE SITE SHALL BE LIMITED TO THE HOURS DESCRIBED HEREIN, THAT IS, 7:00 AM TO 9:00 PM ON WEEKDAYS, AND 9:00 AM TO 9:00 PM ON SATURDAYS AND SUNDAYS (SPECIFIC CONDITION #2).
- TEMPORARY STORAGE OF EMPTY TRAILERS ARE PERMITTED ON THE SITE PROVIDED THAT SAID TRAILERS SHALL NOT REMAIN ON SITE FOR A PERIOD EXCEEDING 30 DAYS. (SPECIFIC CONDITION #3).

HREE BROOKS RD 0 SARGENT KOSTER

# PARKING REQUIREMENTS

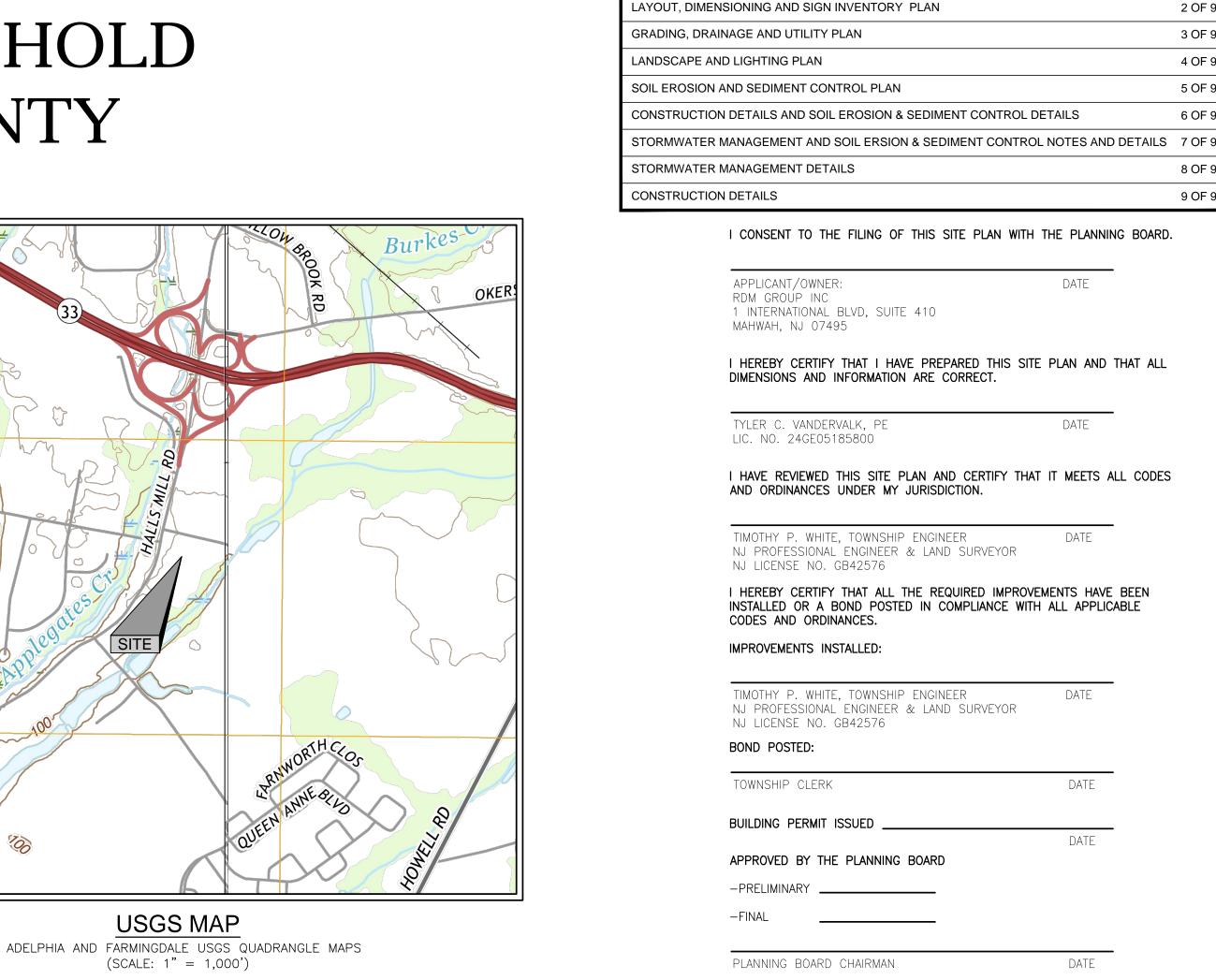
- WAREHOUSE USES: 1 STALL PER 5,000 S.F. OF FLOOR AREA 66,625 S.F. / 5,000 = 13.3 STALLS
- OFFICE USES: 1 STALL PER 200 S.F. OF FLOOR AREA 2,400 S.F. / 200 = <u>12 STALLS</u>
- 14 + 12 = <u>26 TOTAL REQUIRED STALLS</u>
- ADA PARKING REQUIREMENTS: 2 ADA STALL REQUIRED PER 26-50 STALLS (AS PER ADA WEBSITE: https://adata.org/factsheet/parking)
- 35 STANDARD STALLS + 2 ADA STALL = 37 TOTAL STALLS PROVIDED

# SIGN REQUIREMENTS

**USGS MAP** 

(SCALE: 1" = 1,000')

 MAXIMUM NUMBER OF GROUND SIGNS: 1 SIGN PROPOSED: 1 SIGN MINIMUM R.O.W. SETBACK: 15' PROPOSED: 15' MAXIMUM SIGN HEIGHT: PROPOSED: MAXIMUM SIGN AREA (EACH SIDE): PROPOSED:



COVER SHEET

# SHEET INDEX

1 OF 9

2 OF 9

3 OF 9

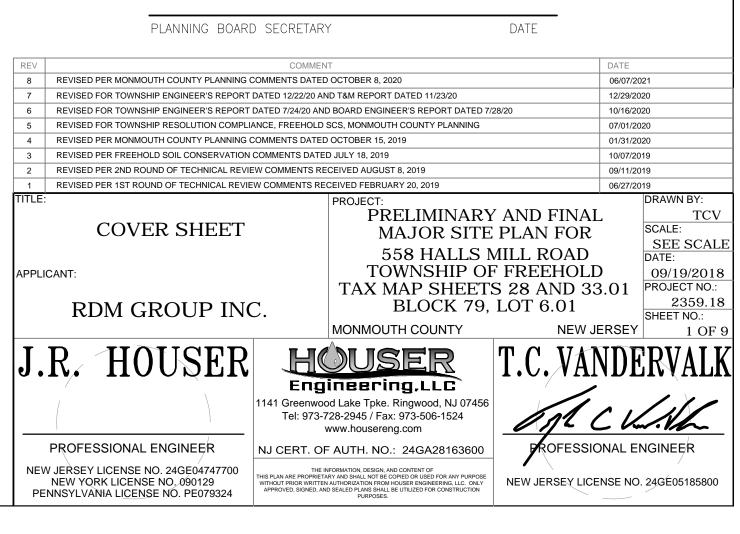
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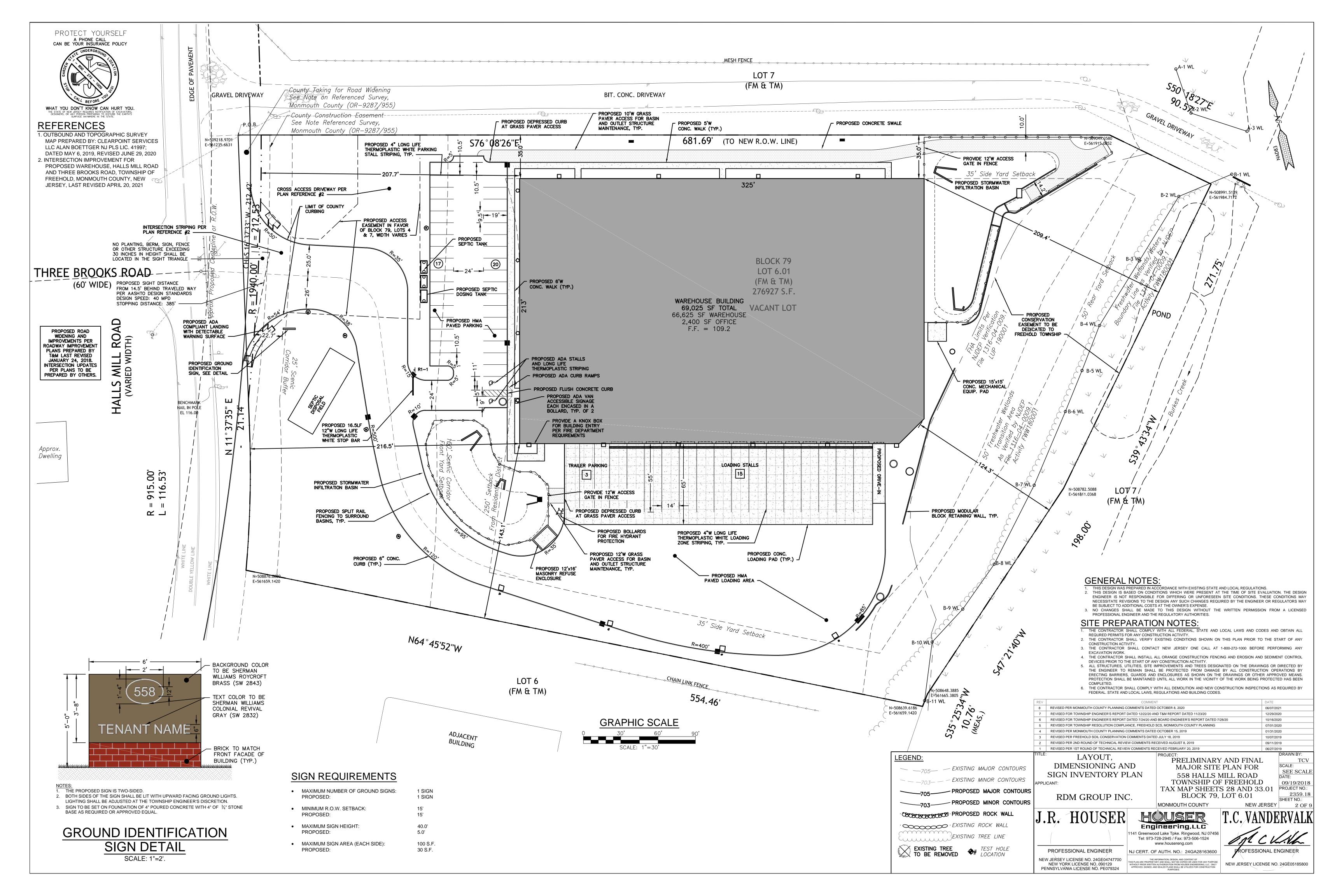
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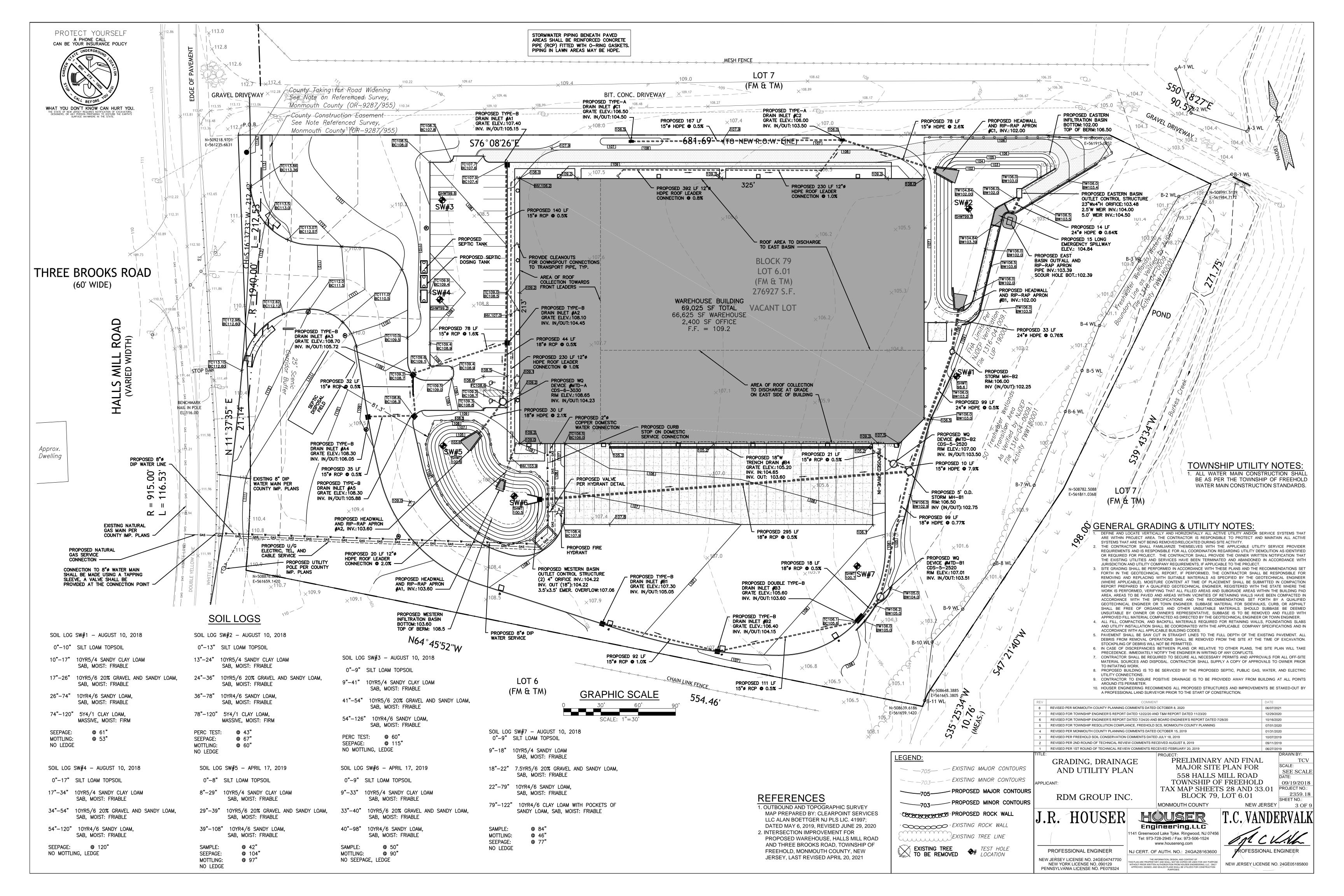
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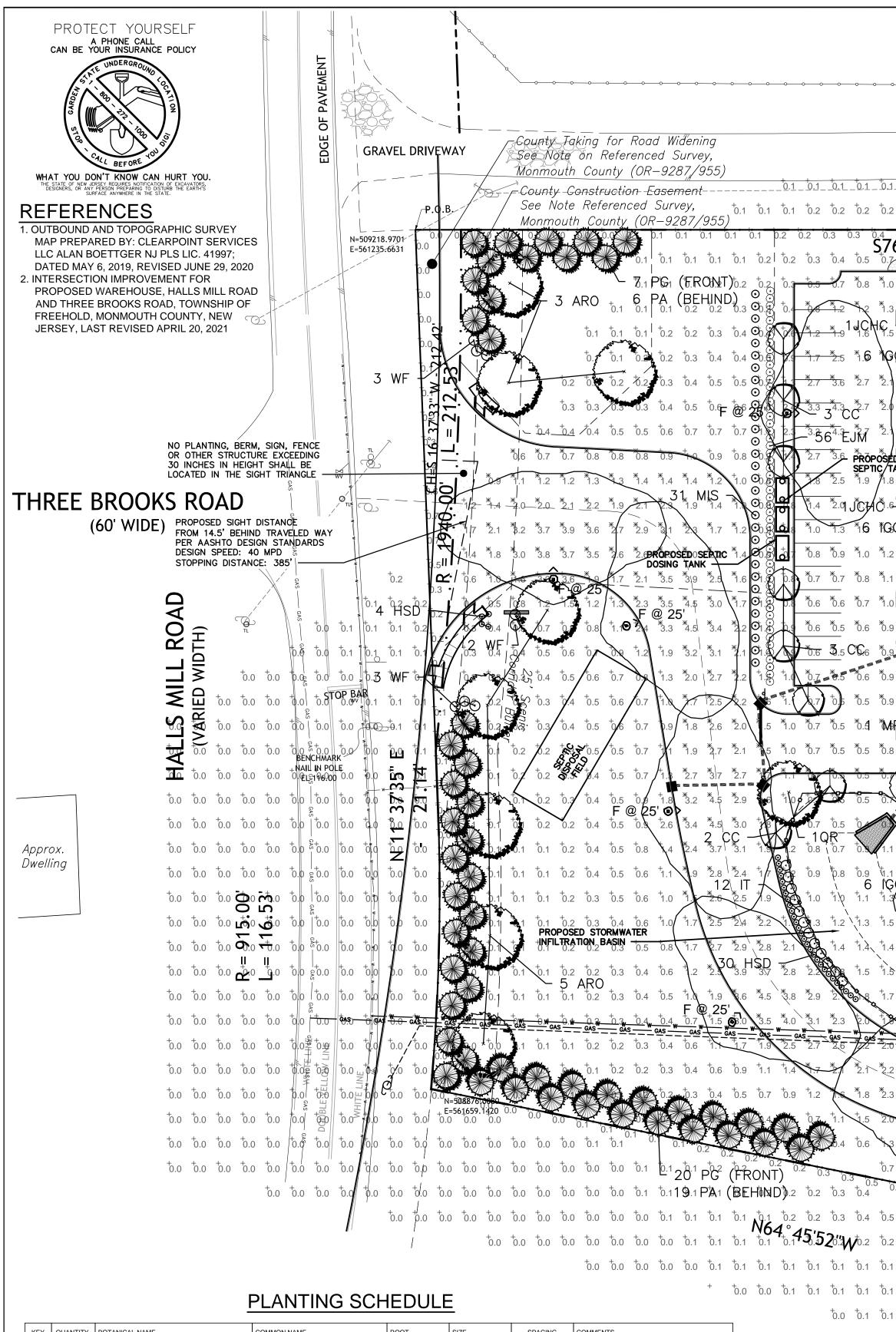
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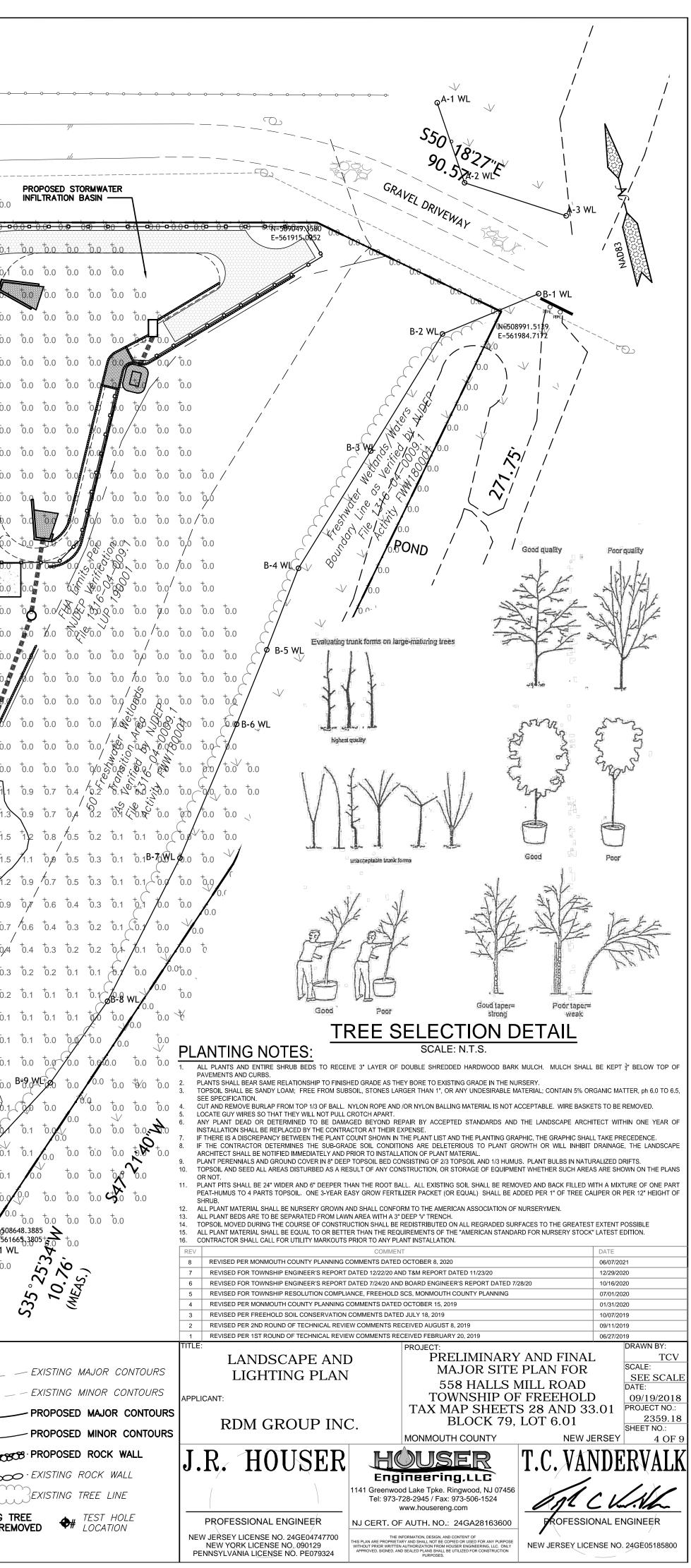


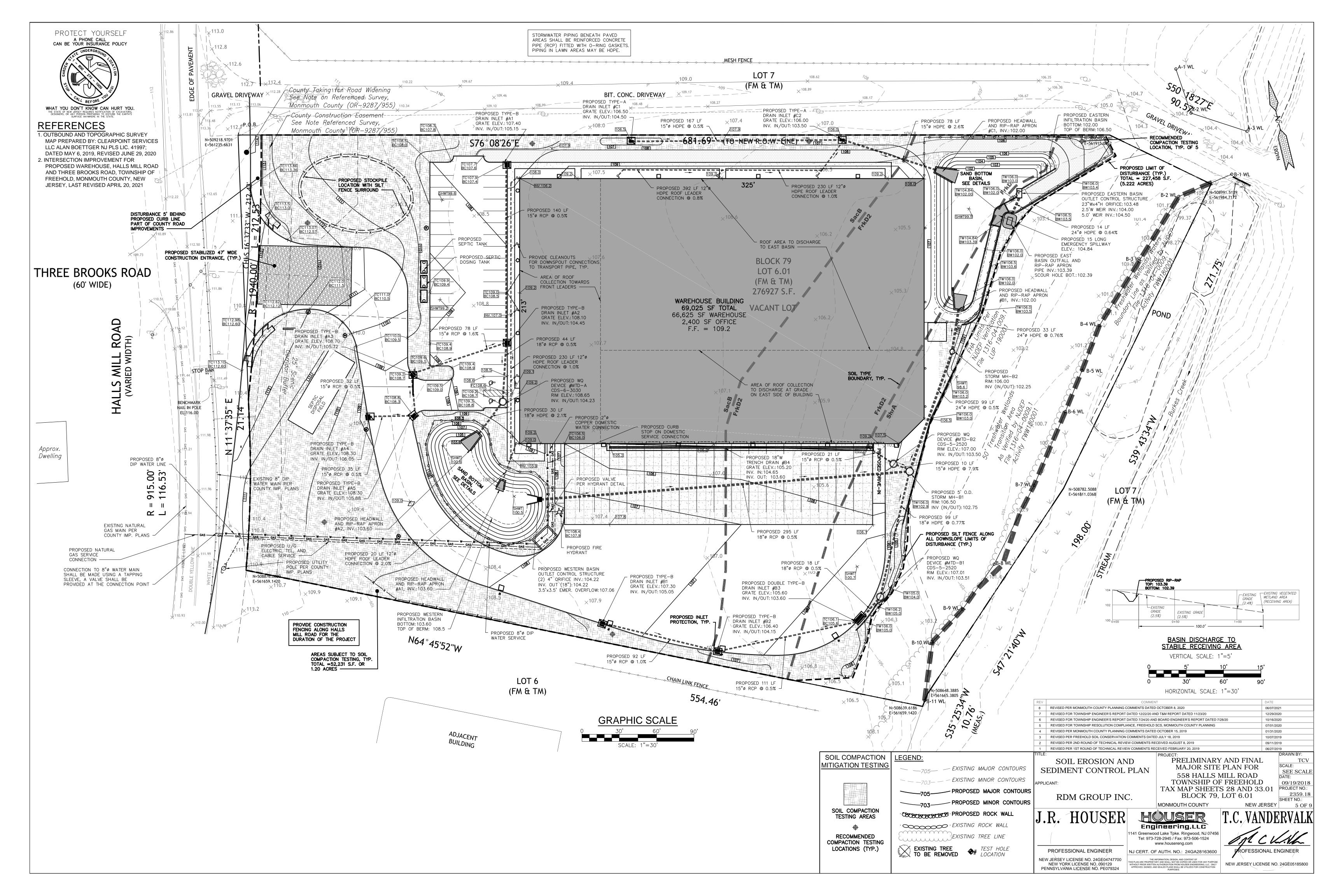


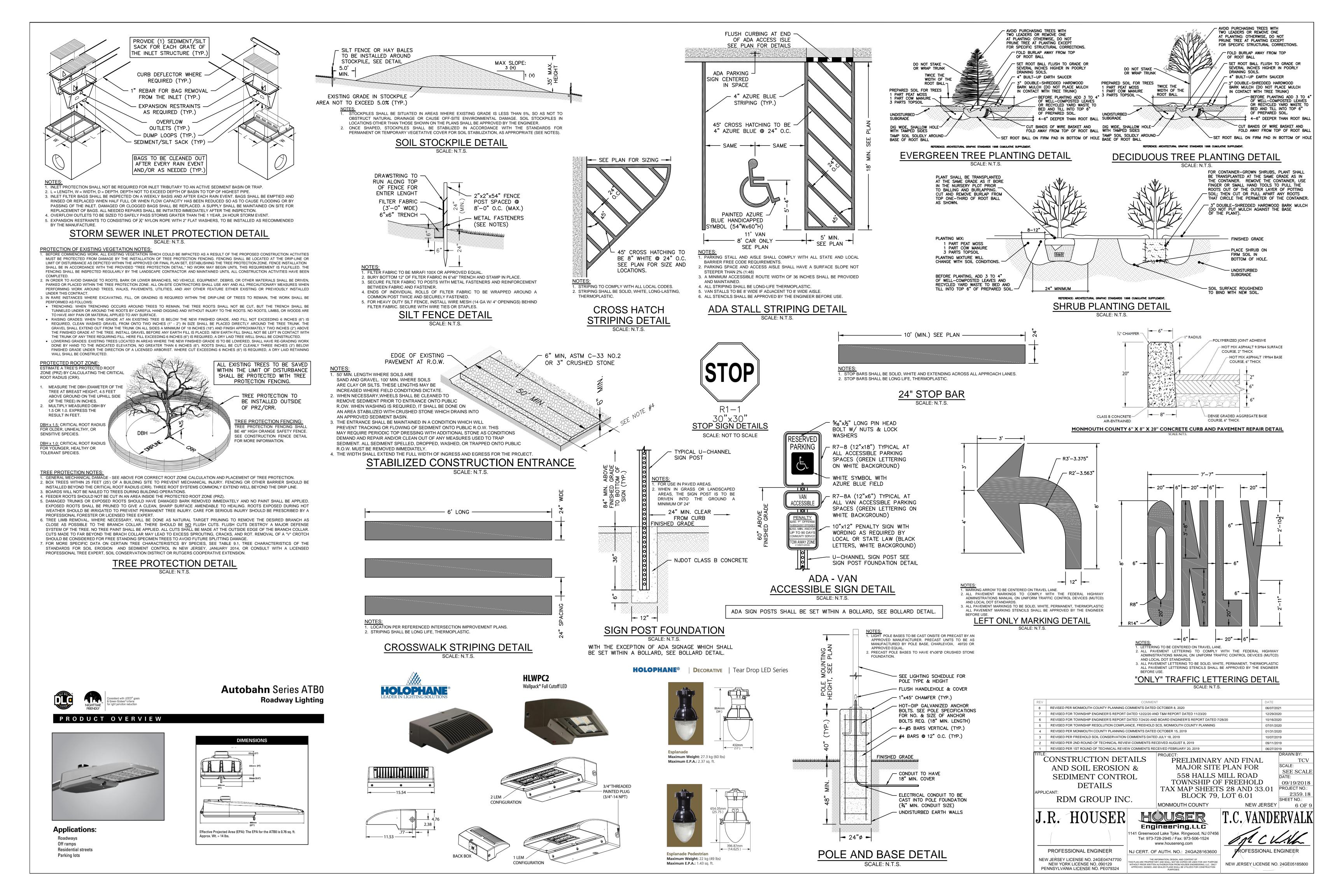


KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	SPACING	COMMENTS	
TREES								
PA	25	PICEA GLAUCA	WHITE SPRUCE	B&B	6-7' HT		DENSE, FULL TO GROUND, WELL ESTABLISHED	
PG	27	PICEA PINGENS GLAUCA	COLORADO BLUE SPRUCE	B&B	7-8' HT		SYMMETRICAL, FULL TO GROUND, DENSE	
ARO	8	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	B&B	3 1/2" - 4" CAL		SYMMETRICAL, LEADER INTACT, FULL	
СС	8	CERCIS CANADENSIS 'FOREST PANSEY'	'FOREST PANSEY' REDBUD	B&B	2 1/2" - 3" CAL		SPECIMEN QUALITY	
MPF	7	MALUS 'PRAIRIEFIRE'	PRAIRIE FIRE FLOWERING CRABAPPLE	B&B	2 1/2" - 3" CAL		SYMMETRICAL, LEADER INTACT, FULL	
QR	1	QUERCUS RUBRA	RED OAK	B&B	3 1/2" - 4" CAL		SYMMETRICAL, LEADER INTACT, FULL	
			SHRUBS					
JCM	8	JUNIPERUS CHINESIS 'MOUNTBATTEN'	MOUNTBATTEN JUNIPER	#5 CONT.	5'-6' HT		DENSE, FULL TO GROUND, WELL ESTABLISHED	
EJM	56	EUONYMUS JAPONICUS VAR MICROPHULLUS	SUNNY DELIGTH BOXLEAF EUNYMUS	#5 CONT.	18"-24" HT	36" O.C.	DENSE, FULL TO GROUND, WELL ESTABLISHED	
JCHC	4	JUNIPERUS CH. HETZII COLUMNARIS	COLUMNAR HETZ JUNIPER	#5 CONT.	4'-5' HT		DENSE, FULL TO GROUND, WELL ESTABLISHED	
IGC	24	ILEX GLABRA SHAMROCK	SHAMROCK INKBERRY HOLLY	#5 CONT.	24"-36" HT	36" O.C.	DENSE, FULL TO GROUND, WELL ESTABLISHED	
ΙТ	12	ITEA VIRGINIANA 'HENRY'S GARNET'	HENRYS GARNET VIRGINIA SWEETSPIRE	#5 CONT.	24"-36" HT	42" O.C.	DENSE, FULL TO GROUND, WELL ESTABLISHED	
WF	8	WEIGELA FLORIDA 'MINUET'	MINUET WEIGELA	#3 CONT.	18"-24" HT	48" O.C.	WELL ESTABLISHED, FULL	
GRASSES								
MIS	31	MISCANTHUS SOMENSIS 'GRACILLIMUS'	VARIEGATED MAIDEN GRASS	#3 CONT.		60" O.C.	WELL ESTABLISHED, FULL	
HSD	34	HEMEROCALLIS 'STELLA D'ORO''	STELLA D'ORO' DAYLILY	#2 CONT.		24" O.C.	WELL ESTABLISHED, FULL	

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*0.7 *0.5			С С @ 1	Z' DOES	A TALL GRASS SEED NOT REQUIRE REGULA BE UTILIZED FOR GRA	R MOWING									
	0.5 0.7 1 0.5 0.7	3 <b>3</b> 4.7 4.1		WITHIN	I THE STORMWATER BA	ASINS.									/ <sup>+</sup> 0.0
0.7 <sup>+</sup> 0.5 - 10R <sup></sup> - 0.8 \ 0.7		+ <u>2.2</u> + <u>2.0</u>		JCHC @ 25' 	D @ 25'	D @ 25'			D @ 25'		D @	25'		D @ 25' 2.5 30 <sup>+</sup> 2.6	+0.0
0.9 <sup>†</sup> 0.8	<sup>†</sup> 0.9 <sup>†</sup> 1.1 <sup>†</sup> 7. <sup>†</sup> 6 <sup>†</sup> GQ <sup>+</sup> <sup>†</sup>		₩ <u>*</u> + + 3.0 3		*2.4 *2.9 *3.5 *3.5 *	29 * 5 * 2.5 * 3.0. * 3.6 * 3.4	1 2.8 4 *		2.9 3.4 3.3 2		4 2.9 3.5 * *	* <b>3</b> .5 *2.9	* Contraction of the second se		5 1.9 <sup>+</sup> 1.3
1.0 <sup>+</sup> 1.0 ••••••••••••••••••••••••••••••••••••	<sup>+</sup> 1.1 <sup>+</sup> 1.3 <sup>+</sup> 1. <sup>+</sup> 1.3 <sup>+</sup> 1.5 <sup>+</sup> 1.	6 <sup>-1</sup> .9 <sup>4</sup> <sup>1</sup> 2 6 <b>(</b> ] <sup>1</sup> 2	.3 <sup>+</sup> 2.5 <sup>+</sup> 2 .3 <sup>+</sup> 2.5 <sup>2</sup>		2)9 310 MPF 3.1 2.8 3.0 29 3.0	3 0 2 9 2 9 3 0 3 0 3 0 3 0 3 0 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2			2.9 2.9 2.9 2.9 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	29 2.8 2 28 2.7 2	8 2.9 3.0 2 9 3.0 2 9 2.9 7 2.9 2.9	3.0 29 2.9 2.9	2 PRIVE	2.7 <sup>+</sup> 2.5 <sup>+</sup> 2	1 <sup>+</sup> 1.9 <sup>+</sup> 1.5 2 <sup>+</sup> 1.9 <sup>+</sup> 1.5
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+0.7. +1.1	+ 1.5 2.0 <del>*</del> 2.0	@ 25' • • • • • • • • • • • • • • • • • • •	.4 2.6 2	.3 *2.0 *1.8	1.8 <sup>*</sup> 1.8 <sup>*</sup> 1.9 <sup>*</sup> 1.9 <sup>*</sup>	1.7 <sup>*</sup> 1.7 <sup>*</sup> 1.6 <sup>*</sup> 1.4 <sup>*</sup> 1.3 <sup>*</sup> 1.3	3 <sup>**</sup> 1.3 <sup>**</sup> 1.2	* * 1.1	1.1 <sup>*</sup> 1.1 <sup>*</sup> 1.1 <sup>*</sup> 1.1 <sup>*</sup> 1	I.0 <sup>**</sup> 1.0 <sup>**</sup> 1.	1 1.2 1.3	*1.3 *1.2	*1.0 *0.9	0.7 0.5 0.4	4 0.2 <sup>+</sup> 0.1
0.2 0.3	<sup>+</sup> 0.6 <sup>+</sup> 1.3 <sup>+</sup> 2. <sup>+</sup> 0.7 <sup>+</sup> 1.	1 $\frac{1}{1.7}$ 3				2.3 2.1 1.8 1.6 1.5 1.6 2.9 2.6 2.1 1.8 1.7 1.8							Nor/		
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	<sup>†</sup> 0.4 <sup>†</sup> 0.5 <sup>†</sup> 0. <sup>†</sup> 0.2 <sup>†</sup> 0.2 <sup>†</sup> 0.			.3 <sup>†</sup> 0.3 <sup>†</sup> 0.3	0.0	2.8 2.1 2.0 4.9 2.0 2.2 1.0 0.8 0.6	*3.5		2.9 2.6 2.1				1.		
<sup>+</sup> 0.1 <sup>+</sup> 0.1	<sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.	1 0.1 0	.1 0.2 0	.2 0.2 0.3	+0.4 +0.5 +0.8 +0.7 + +0.4 +0.5 +0.5 +0.5 +0.5 +0.5 +0.5 +0.5 +0.5	$\overline{0.5}$ $\overline{0.4}$ $\overline{0.3}$	5 +0.8	1.6	1.3 to 9 to +1	1.0 + 1.1 + 1.0	0 +0.6 +0.6	+ $+$ $+$ $+$ $1.0+$ $0.6$ $+$ $0.7$	1 +0.5 +0.5 +0.5	0.3 <sup>+</sup> 0.2 <sup>+</sup> 0.2	1 +0.1 +0.0
+0.0	<sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1	1 0.1 0		.1 0.1 0.2	<sup>+</sup> 0.2 <sup>+</sup> 0.2 <sup>+</sup> 0.3 <sup>+</sup> 0.4 <sup>+</sup>	0.4 <sup>+</sup> 0.3 <sup>+</sup> 0.2 <sup>+</sup> 0.2 <sup>-</sup> 0.2 <sup>-</sup> 0.3 <sup>+</sup> 0.4	FENCE TO.8	+0.8 +	0.7 <sup>+</sup> 0.6 <sup>+</sup> 0.6	0.6 0.4	0.2	<sup>+</sup> 0.4 <sup>+</sup> 0.4	+0.4 +0.3 (	0.1 <sup>†</sup> 0.1 <sup>†</sup> 0.1	1 <sup>+</sup> 0.0 N=50864
GRA	PHIC S			.1 0.1 0.1 0.1	'0.1 <sup>-</sup> 0.1 <sup>-</sup> 0.1 <sup>-</sup> 0.2 <sup>-1</sup> <sup>+</sup> 0.1 <sup>-</sup> 0.1 <sup>-1</sup> 0.1 <sup>-1</sup>	0.2 0.2 0.2 0.2 0.2 0.3 0.4 0.1 0.1 0.2 0.2 0.2 0.2 0.2	5 <b>54.46</b> 2 <sup>+</sup> 0.3 +0.3	+0.3 +	0.5 <del>0.5</del> 0.4 (	).2 0.2 0.	1 0.2 0.2		0.1 0.1	0.1 0.0	, 假 <sub>0</sub> 11 WL
3	50 <b>'</b>	60 <b>'</b>	<b>_</b> 90'			ö.1 ö.1 ö.1 ö.1 ö.1 ö. HTING SCHEDU							$\bigcap$	5.0 <sup>+</sup> 0.0 <sup>+</sup> 0.0 /	>/
Schedule	SCALE: 1"=	30 <sup>.</sup>							U.I U.I U	<b>F</b>		0.1 0.1		/	
Symbol	Label		25'	Manufacturer American Electric Lighting	Catalog Number ATB0 30BLEDE15 XXXXX R4 4K/5K	Description ATB0 SERIES LED 1500MA TYPE 4 4000K/5000K CCT	Lamp LED Array	Number Lamps 1	Filename ATB0_30BLEDE1 5_XXXXX_R4_4K	Lumens per Lamp 16462	LLF 0.94	Wattage 145		LEGEN	<u>ND:</u> —705— -
	D	6 2	25'	Holophane	HLWPC2 P50 40K XX TFTM	Wallpack Full Cutoff LED, LED Performance Package P20, 4000 series CCT, Voltage, Forward	LED	1	_5K.ies HLWPC2_P50_40 K_XX_TFTM.ies	12125	0.97	115			-703 <b>-705-</b>
	F	5 2	25'	Holophane	ESL2/MPL2 P40S 40K XX TG 3	Throw Medium Esplanade/Memphis LED, 5 COBs (downlight), 4000K, Teardrop	LED COB	1	ESL2_MPL2_P40 S_40K_XX_TG_3	16784	0.84	140		0878	-703
	G	4 1	7'	Holophane	ESPL2 P40 40K XX 4	glass and door, Type 3 Esplanade Pedestrian Tear Drop LED, LED Package 40, 4000K, Teardrop asymmetric distribution	LED	1	.ies ESPL2_P40_40K _XX_4.ies	9118	0.84	77		. 00	
	J	4 1	2'	Holophane	HLWPC2 P10 40K XX T2M	Teardrop asymmetric distribution Wallpack Full Cutoff LED, LED Performance Package P10, 4000 series CCT, Voltage, Type II	LED	1	HLWPC2_P10_40 K_XX_T2M.ies	3110	0.97	28			EXISTING TR
	_					series CCT, Voltage, Type II Medium								- ugus - •	







### FREEHOLD SOIL CONSERVATION DISTRICT NOTES:

- THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE. OR IN
- HEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF
- REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS. NUSA 4:24-39 FT SEQ REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT
- DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED, UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT-BY-LOT OR SECTION-BY-SECTION BASIS, PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL 2. SEEDBED PREPARATION EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC. WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 ½ TONS PER ACRE, ACCORDING TO THE STANDARD FOR STABILIZATION WITH MULCH
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. SOIL STOCKPILES, STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT. AND A MULCH ANCHOR. IN ACCORDANCE WITH STATE STANDARDS. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF
- IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE
- PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ACCESS CONSISTING OF ONE INCH TO TWO INCH (1" -) STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC 3. SEEDING
- RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL
- AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER. SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NO PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/1,000 SQ FT OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE TO BE PLANTED CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM
- BECOMING OPERATIONAL UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE TANDARD FOR DEWATERING.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY. THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
- STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN, STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT

#### DUST CONTROL NOTE

F BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCED ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY, THE FOLLOWING METHODS SHALL BE EMPLOYED AS REQUIRED TO CONTROL THE GENERATION OF DUST FROM CONSTRUCTION SITES AND SUBSEQUENT 4. MULCHING BLOWING AND DEPOSITION INTO LOCAL SURFACE WATER RESOURCES.

#### DUST CONTROL WITH MULCHES ONLY:

STRAW MULCH (HAY MULCH MAY BE SUBSTITUTED IF APPROVED BY THE DISTRICT) IS TO BE SPREAD UNIFORMLY AT THE RATE OF 2 TO 2-1/2 TONS PER ACRE (TOTAL GROUND SURFACE COVERAGE). THIS PRACTICE IS LIMITED TO PERIODS WHEN VEGETATIVE COVER CANNOT BE ESTABLISHED DUE TO THE SEASON OR OTHER CONDITIONS. MULCH MUST BE ANCHORED IN ACCORDANCE WITH NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL. MULCH ALONE CAN ONLY BE USED FOR SHORT PERIODS AND WILL REQUIRE MAINTENANCE AND RENEWAL. OTHER MULCH MATERIALS MAY BE UTILIZED IF APPROVED BY THE DISTRICT

#### DUST CONTROL WITH VEGETATIVE COVER:

SEE STABILIZATION NOTES FOR TEMPORARY AND PERMANENT VEGETATIVE STABILIZATION CONTROL

DUST CONTROL WITH SPRAY ON ADHESIVES: TO BE USED ON MINERAL SOILS AS THEY ARE NOT EFFECTIVE ON MUCK SOILS. TRAFFIC TO BE KEPT OFF THESE

MATERIAL:	WATER DILUTION:	NOZZLE TYPE:	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM)-SPRAY	FOR POLYACRYLAMIE	DE (PAM) SPRAY OR DRY	APPLY ACCORDING TO
POLYACRYLAMIDE (PAM)-DRY	MANUFACTURER'S I	NSTRUCTIONS. MAY A	LSO BE USED AS AN
ADDITIVE			
	TO SEDIMENT BA	SINS TO FLOCCULA	TE AND PRECIPITATE
SUSPENDED			
	COLLOIDS.		
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

OTHER DUST CONTROL MEASURES:

TILLAGE: TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY EASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. HISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING: SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS: SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR ATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE: SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO BE FEED TROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OF PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

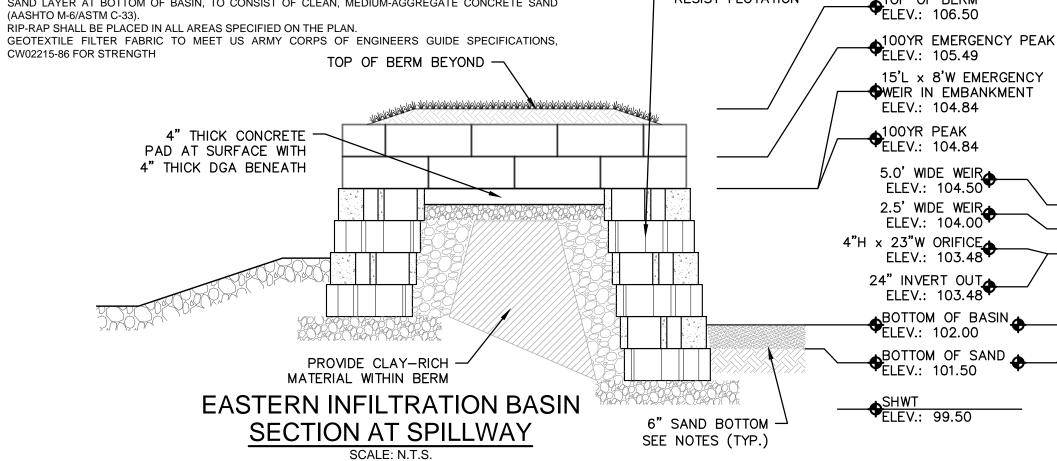
STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

PROJECTED CONSTRUCTION SEQUENCE				
INSTALL TERMPORARY SEDIMENT CONTROL MEASURES:				
CONSTRUCTION ENTRANCE, SILT FENCE & INLET PROTECTION	5 DAYS			
ROUGH GRADING	15 DAYS			
INSTALL SEPTIC SYSTEM	10 DAYS			
INSTALL RUNOFF COLLECTION SYSTEMS AND GRADE BASINS	70 DAYS			
CONSTRUCT BUILDING	150 DAYS			
CONSTRUCT SITE IMPROVEMENTS (CURBING, DRIVEWAYS, ETC.)	30 DAYS			
PERMANENT STABILIZATION	5 DAYS			
REMOVE TEMPORARY STABILIZATION	2 DAYS			
TOTAL	287 DAYS			

BASINS SHALL NOT COME ON-LINE UNTIL SITE IS STABILIZED

NOTES: 1. DURING CLEARING AND GRADING OF THE SITE, MEASURES MUST BE TAKEN TO ENSURE MINIMAL COMPACTION AT THE LOCATION OF THE PROPOSED INFILTRATION BASIN.

- MAXIMUM SIDE SLOPE FOR INFILTRATION BASIN EMBANKMENTS IS (3) HORIZONTAL TO (1) VERTICAL. SAND LAYER AT BOTTOM OF BASIN, TO CONSIST OF CLEAN, MEDIUM-AGGREGATE CONCRETE SAND
- (AASHTO M-6/ASTM C-33).
- GEOTEXTILE FILTER FABRIC TO MEET US ARMY CORPS OF ENGINEERS GUIDE SPECIFICATIONS, CW02215-86 FOR STRENGTH



#### PERMANENT STABILIZATION NOTES:

- 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 N ACCORDANCE WITH STANDARD FOR LAND GRADING B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION. THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING 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 ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOIL ING D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION 2. SEEDBED PREPARATION
- STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. A UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND

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 10-10-10 OR EQUIVALENT WITH 50% WATER NSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED. APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING EEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN TO 5 WEEKS AFTER SEEDING B. WORK LIME 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 DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS 3. SEEDING C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE

COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REPARATION. REQUIREMENTS.

- A. RECOMMENDED SEED MIXTURE: TALL FESCUE (TURF-TYPE) 265 LBS/ACRE AND PERENNIAL RYEGRASS 20 LBS/ACRE. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED HALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED. OPTIMAL PLANTING DATES ARE MARCH THROUGH APRIL, ACCEPTABLE PLANTING DATES ARE MAY 1ST THROUGH OCTOBER 5. PLANTING SHOULD ONLY OCCUR IN SUMMER MONTHS IF IRRIGATION IS PROVIDED.
- 1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE. WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES. GENERALLY 85° F AND ABOVE. SEE TABLE 4-3 MIXTURES 1 TO 7. PLANTING RATES FOR
- WARM-SEASON GRASSES SHALL BE 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 TEMPERATURES BELOW 85°F. MANY GRASSES BECOME ACTIVE AT 65°F. SEE TABLE 4-3, MIXTURES 8-20. ADJUSTMENT OF

PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLASS NOT REQUIRED FOR COOL SEASON GRASSES B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR ULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION 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. 2. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN

PERFORMED ON THE CONTOUR. SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE

MAXIMIZED. 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 MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT 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 COMPLIANCE WITH THIS MULCHING REQUIREMENT. A STRAW OR HAY UNROTTED SMALL GRAIN STRAW HAY FREE OF SEEDS TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED ISTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NO RECOMMENDED FOR ESTABLISHING FINE TURE OR LAWNS DUE TO THE PRESENCE OF WEED SEED APPLICATION SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND

. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS. 2. MULCH NETTINGS - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. 3 CRIMPER (MULCH ANCHORING COULTER TOOL) - A TRACTOR-DRAWN IMPLEMENT SOMEWHAT LIKE A DISC HARROW. ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4

INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED. 4. LIQUID MULCH-BINDERS - MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH. A. 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 APPEARANCI

B. USE ONE OF THE FOLLOWING (1) ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING. POWDER-BASED. HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURE GRASS. USE AT RATES AND WEATHER CONDITIONS. AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE. SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE 2) SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING, SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES 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 THESE PRODUCTS TO THI EXCLUSION OF OTHER PRODUCTS. B. WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS ECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL C. PELLETIZED MULCH - COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED

TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1.000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE EED-SEED FREE MULCH IS DESIRED. OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NO PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

RIGATION (WHERE FEASIBLE) IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES. TOPDRESSING

SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE

PRESCRIBED IN SECTION 2A - SEEDBED PREPARATION IN THIS STANDARD. NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED. ESTABLISHING PERMANENT VEGETATIVE STABILIZATION

THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING HE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN TABLE 4-3 ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 0% VEGETATIVE COVER (OF THE SEEDED SPECIES) AND MOWED ONCE. NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED

TOP OF BERM

- INFILL INTERIOR WALL

WITH CONCRETE TO

**RESIST FLOTATION** 

#### TEMPORARY STABILIZATION NOTES:

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR EEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOLILD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING. PG. 19-1 B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS. GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

A. APPLY 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 NSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWIS SPRINGTOOTH HARROW. OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING

EEDBED IS PREPARED C.INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE. D.SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1

B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP EEDER, DRILL ORCULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKEE DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. . 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 IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD 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.

ONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED. . MULCHING

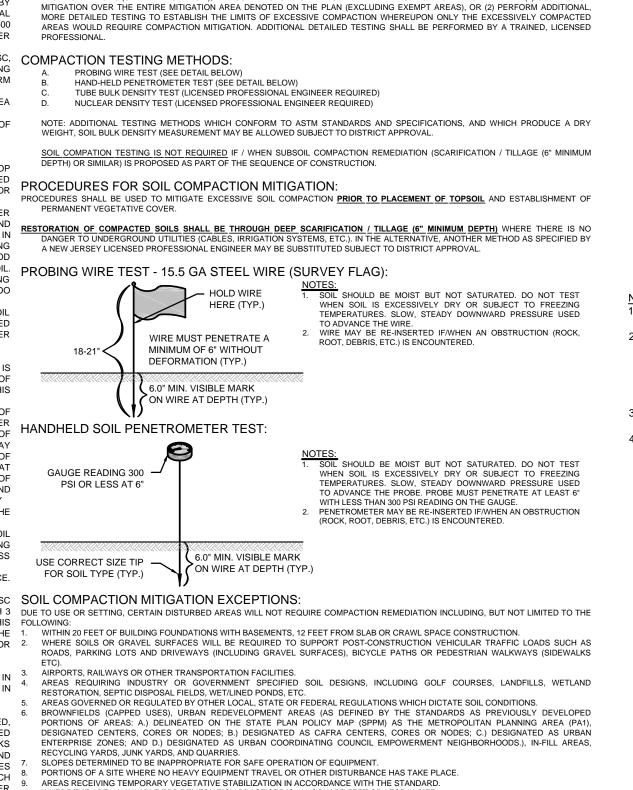
ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT. , STRAW OR HAY, UNNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF I-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF VEED SEED.APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH DIVIDE AREA INTO APPROXIMATELY 1,000 SOLIARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS. 1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

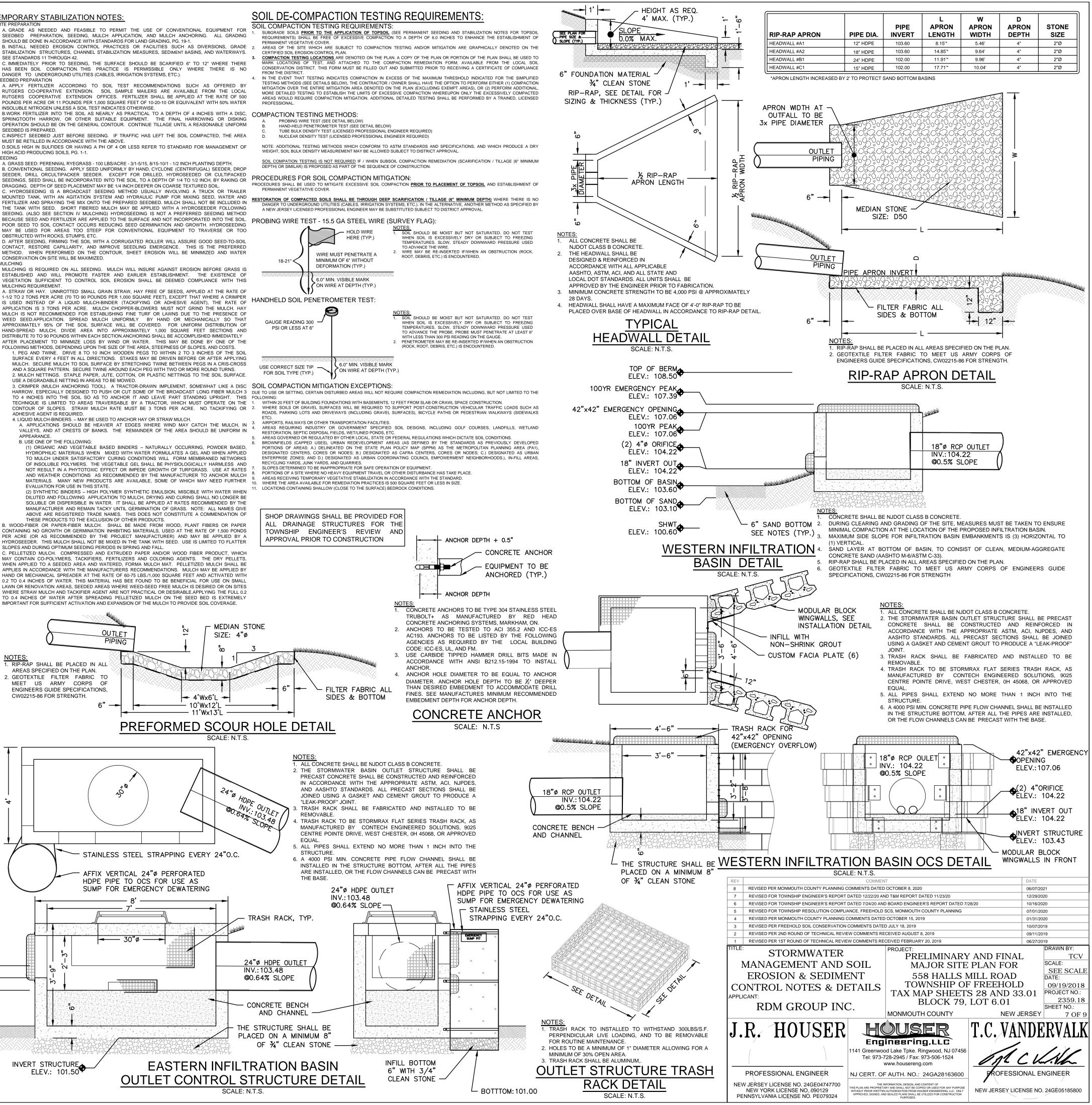
USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS FOLLOWING: CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR 2 ADHESIVE AGENT IS REQUIRED.

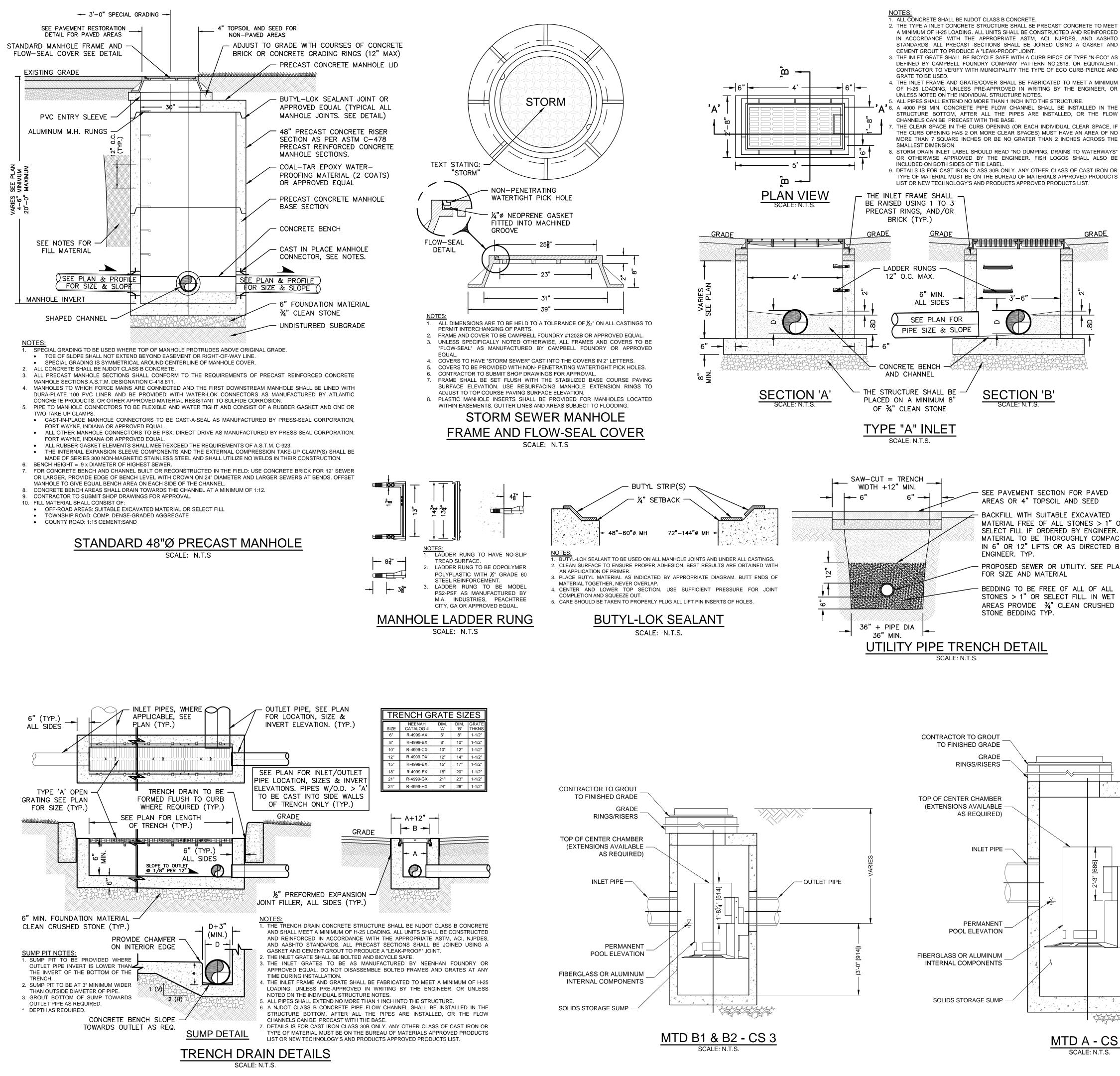
A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH. IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE B. USE ONE OF THE FOLLOWING:

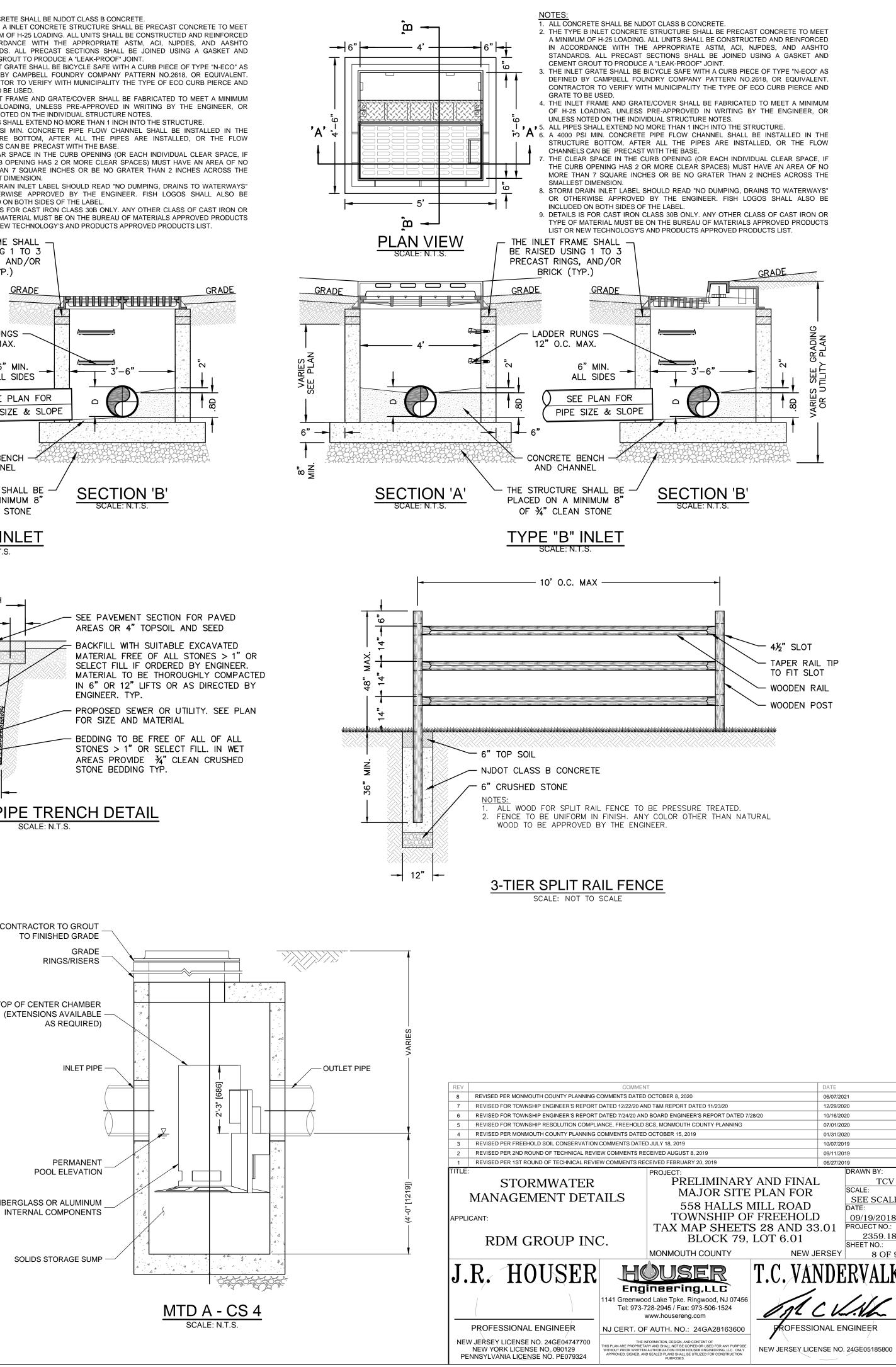
HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE. (2) SYNTHETIC BINDERS – 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 RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS. NOTE: ALL NAMES GIVE ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A COMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS. B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 PONDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL. : PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORMA MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY

).2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEE FOUND TO BE BENEFICIAL FOR USE ON SMA LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY MPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE









2. THE TYPE A INLET CONCRETE STRUCTURE SHALL BE PRECAST CONCRETE TO MEET A MINIMUM OF H-25 LOADING. ALL UNITS SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE APPROPRIATE ASTM, ACI, NJPDES, AND AASHTO STANDARDS. ALL PRECAST SECTIONS SHALL BE JOINED USING A GASKET AND 3. THE INLET GRATE SHALL BE BICYCLE SAFE WITH A CURB PIECE OF TYPE "N-ECO" AS DEFINED BY CAMPBELL FOUNDRY COMPANY PATTERN NO.2618, OR EQUIVALENT. CONTRACTOR TO VERIFY WITH MUNICIPALITY THE TYPE OF ECO CURB PIERCE AND 4. THE INLET FRAME AND GRATE/COVER SHALL BE FABRICATED TO MEET A MINIMUM OF H-25 LOADING, UNLESS PRE-APPROVED IN WRITING BY THE ENGINEER, OR

