PRELIMINARY AND FINAL SITE PLAN

No. 383 SOUTH AVENUE BLOCK 69, LOT 5 TAX MAP SHEET No. 21

TOWN OF FANWOOD UNION COUNTY NEW JERSEY

371 SOUTH AVE AGUIUCHO, MARIA 36 OLD SOUTH AVE FANWOOD, NJ 07023 32 OLD SOUTH AVE PEDRERO, TIMOTHY & MELISSA FANWOOD, NJ 07023 28 OLD SOUTH AVE FANWOOD, NJ 07023 366 SOUTH AVE FANWOOD, NJ 07023 FARKAS, ALEXANDER & SHIRLEY 374 SOUTH AVE 374 SOUTH AVE



PROJECT AREA MAP

MUNICIPAL & UTILITIES CONTACT LIST

PUBLIC SERVICE ELECTRIC & GAS COMPANY COMCAST CABLEVISION MANAGER, CORPORATE PROPERTIES C/O- CORPORATION TRUST CO. 820 BEAR TAVERN ROAD WEST TRENTON, NJ 08628 80 PARK PLAZA, T6B ELIZABETHTOWN GAS COMPANY NEW JERSEY AMERICAN WATER, Inc DONNA SHORT, GIS SUPERVISOR ENGINEERING DEPARTMENT 1025 LAUREL OAK ROAD

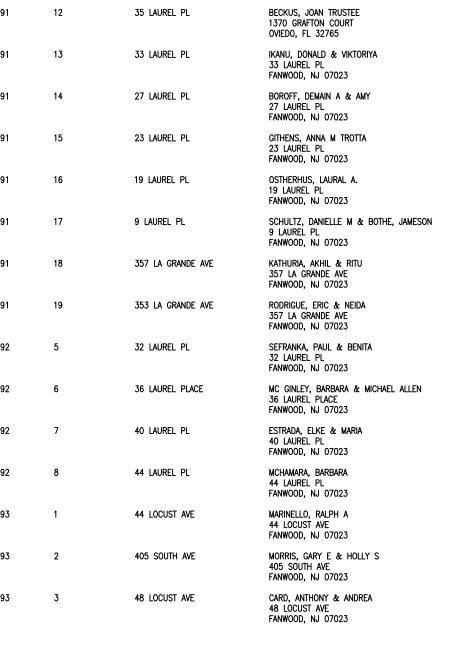
VOORHEES, NJ 08043

PREPARED OCTOBER 2023

FOR

NB HOME IMPROVEMENTS, LLC

1227 MORRIS AVENUE UNION, NJ 07085



PROPERTY OWNER & MAIL ADDRESS

<u>OWNER</u> SHEELEN'S REAL ESTATE LLC 200 SOUTH AVENUE FANWOOD, NJ 07023

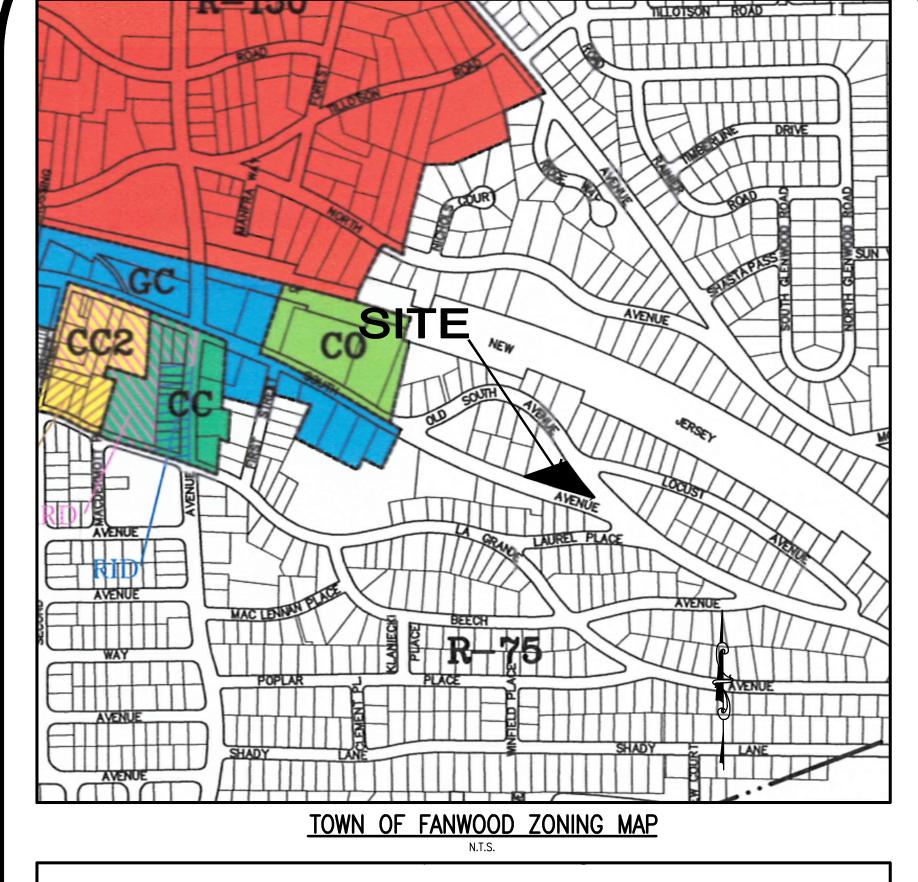
> <u>APPLICANT</u> NB HOME IMPROVEMENTS, LLC 1227 MORRIS AVENUE UNION, NJ 07085

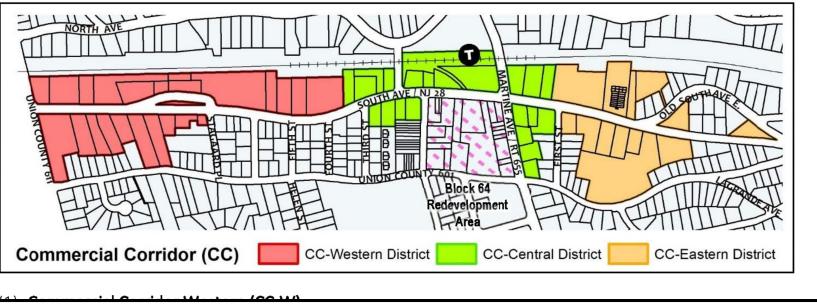
CERTIFICATION OF APPROVAL

APPROVED BY THE PLANNING BOARD

ENGINEER

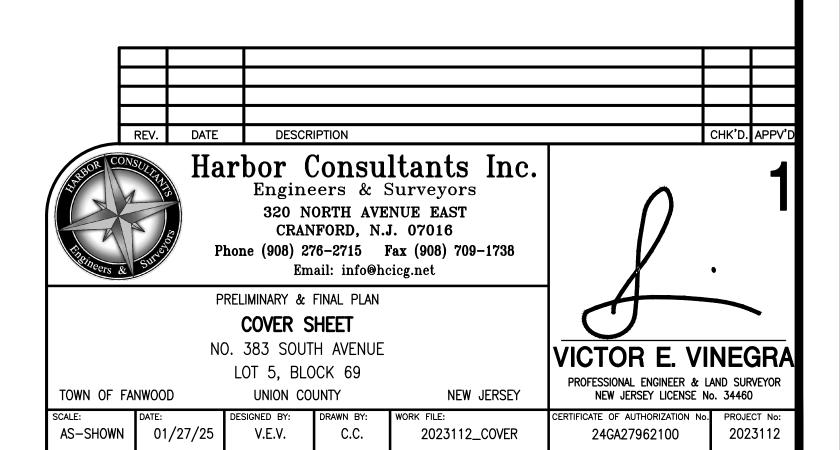
SECRETARY





TOWN OF FANWOOD COMMERCIAL CORRIDOR (CC) REDEVELOPMENT ZONE

SHEET INDEX						
SHEET No.	DESCRIPTION	PREPARED	LAST REVISED			
1	COVER SHEET	01/27/25				
2	EXISTING CONDITIONS & DEMOLITION PLAN	01/27/25				
3	LAYOUT & DIMENSIONING PLAN	01/27/25				
3A	VEHICLE TURNING TEMPLATE PLAN	01/27/25				
4	GRADING, UTILITY & LIGHTING PLAN	01/27/25				
5	LANDSCAPING & LIGHTING PLAN	01/27/25				
6	SOIL EROSION & SEDIMENT CONTROL PLAN	01/27/25				
7	CONSTRUCTION DETAILS-1	01/27/25				
8	CONSTRUCTION DETAILS-2	01/27/25				



CLEANOUT MAILBOX STREET TREE SANITARY MANHOLE EXIST. SPOT ELEVATION DRAINAGE MANHOLE X 0.00 CATCH BASIN — — 10 — — EXISTING CONTOUR LINE CATCH BASIN —— G—— GAS LINE SOIL BORING GAS VALVE GUY WIRE UTILITY POLE WATER VALVE P.K. NAIL FOUND FIRE HYDRANT CONC. MONUMENT FOUND \Diamond LIGHT POST

<u>LEGEND</u>

STREET SIGN

DIG SAFELY - NEW JERSEY

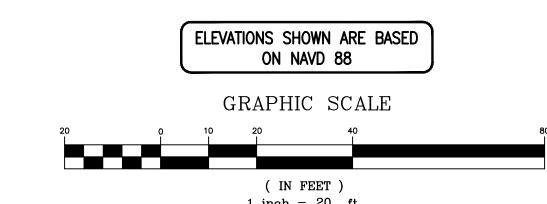
CALL BEFORE YOU DIG 1-800-272-1000 IT'S THE LAW

NEW JERSEY ONE CALL CONTRACTORS SHALL CALL 1-800-272-1000 MINIMUM THREE DAYS, MAXIMUM 10 DAYS NOTICE PRIOR TO BEGINNING EXCAVATION

Dig Safely

IRON BAR FOUND

ON NAVD 88 GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.



REV. DATE DESCRIPTION Harbor Consultants Inc. Engineers & Surveyors 320 NORTH AVENUE EAST CRANFORD, N.J. 07016 Phone (908) 276-2715 Fax (908) 709-1738 Email: info@hcicg.net PRELIMINARY & FINAL SITE PLAN

PROFESSIONAL ENGINEER & LAND SURVEYOR NEW JERSEY LICENSE No. 34460 FICATE OF AUTHORIZATION No. PROJECT No:

24GA27962100

CHK'D. APPV'

LOT 5, BLOCK 69 UNION COUNTY **NEW JERSEY** 01/27/25 V.E.V. 2023112 Exist

EXISTING CONDITIONS & DEMOLITION PLAN NO. 383 SOUTH AVENUE TOWN OF FANWOOD

EXISTING CONDITIONS & DEMOLITION PLAN SCALE: 1"=20'

\ POLE TO BECRELOCATED / 04"STUMP 04"STUMP O BLACK CHERRY STUMP LOT 5 NICOLA & DINA DINIZO 18,650/S.F. **WOOD DECK** `[©]existing depresséd\(0.428 AC. CURB TO BE REMOVED EXISTING TREES & TREE— GRAVEL AREA STUMPS TO BE REMOVED (TYP.) O SASSAFRASS STUMP BUILDING TO BE REMOVED AND ANY. ASSOCIATED IMPROVEMENT (I.E. PARKING LOT, DECK AND CONCRETE) X 191.88 1 STORY WOOD FRAME POLE TO BE RELOCATED PAVED\ARE ×190.59 ×191.19 10"OAK 96"STUMP x 188.71 S55°00'19"W 239.64' CONCRETE **" 0 20"STUMP** / DEPRESSED CURB (TYP.) × 189.78 SOUTH AVENUE - N.J. STATE HIGHWAY ROUTE 28 (66' R.O.W.) TCP.188.96 TG.188.27 INV.181.22 EXISTING DEPRESSED-R=1465.50' CURB TO BE REMOVED L=101.76 D=03°58'42" CB=S56°59'41"W CL=101.74' PIPE TO BE REMOVED——
AND REPLACED INV.181.12 Q, UP#61053FA `Q,UP#61054FA

<u>DESCRIPTION:</u>-BEING KNOWN AND DESIGNATED AS LOT 5 IN BLOCK 69 ON THE BOROUGH OF FANWOOD TAX ASSESSMENT MAP. BEING MORE COMMONLY KNOWN AS Nos. 383 SOUTH AVENUE BOROUGH OF FANWOOD, UNION COUNTY, NEW JERSEY

1. REFERENCES WERE MADE TO DEED BOOK 6206, PAGE 178.

2. AT THE REQUEST OF THE OWNERS, PROPERTY CORNERS WERE NOT SET AT THIS

3. DIMENSIONS AS SHOWN ARE NOT INTENDED FOR THE CONSTRUCTION OF FENCES OR PERMANENT STRUCTURES.

4. OFFSETS SHOWN ARE MEASURED FROM THE FRAME OF THE STRUCTURE

PERPENDICULAR TO THE PROPERTY LINE, UNLESS OTHERWISE NOTED.

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT AND MAY HAVE BEEN

DEMOLITION NOTES:—

1. WORK TO BE IN ACCORDANCE WITH ALL LOCAL AND STATE RULES AND REGULATIONS AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

2. PROTECT AT ALL TIMES ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAYS FROM DAMAGE, DUST AND DEBRIS. PROVIDE FOR THE SAFETY OF PEDESTRIANS AT ALL

3. ALL UNDERGROUND PIPING TO BE REMOVED SHALL BE CAPPED AT THE PROPERTY LINE. EXISTING ON—SITE UNDERGROUND UTILITIES TO BE ABANDONED AND SLURRY FILLED IN PLACE. CONTRACTOR SHALL CUT AND CAP ALL CONNECTIONS AT THE

4. THE USE OF EXPLOSIVES IS PROHIBITED WITHOUT THE REQUIRED LOCAL AND STATE

5. THE LOCATION OF ALL UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE TO BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION ACTIVITIES. ANY DISCREPANCIES BETWEEN PLAN AND FIELD INFORMATION ARE TO

BE REPORTED IMMEDIATELY TO HARBOR CONSULTANTS. 6. THE DISRUPTION OF EXISTING UTILITY SERVICES SHALL BE AVOIDED TO THE

COORDINATED IN ADVANCE WITH THE RESPECTIVE AUTHORITY AND AFFECTED USERS SHALL BE ADEQUATELY NOTIFIED. 7. ALL CONSTRUCTION DEBRIS AND REFUSE SHALL BE DISPOSED OF OFF-SITE IN AN

GREATEST EXTENT POSSIBLE. ANY REQUIRED DISRUPTION OF SERVICES SHALL BE

8. ANY DAMAGE TO THE PUBLIC RIGHT OF WAY MUST BE REPAIRED/INSTALLED TO EQUAL STANDARDS.

9. THE CONTRACTOR SHALL INVESTIGATE THE EXISTING TIE IN CONNECTIONS FOR WATER AND SEWER SERVICE TO THE BUILDING AND EXTEND AS REQUIRED.

1. THE PREMISES SHOWN HEREON WERE SURVEYED WITHOUT THE BENEFIT OF A TITLE SEARCH AND IS SUBJECT TO SUCH FACTS AS A CURRENT TITLE SEARCH MAY DISCLOSE. THE PROPERTY ALSO MAY BE SUBJECT TO

A.) RIGHTS OF CLAIMS OF PARTIES IN POSSESSION SHOWN BY THE PUBLIC

B.) RIGHTS OF CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE

PÚBLIC RECORD. C.) EASEMENTS OR CLAIMS OF EASEMENTS, SHOWN BY THE PUBLIC

D.) EASEMENTS OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC

2. NO DETERMINATIONS HAVE BEEN MADE REGARDING UNDERGROUND UTILITIES WHICH MAY EXIST, UNLESS AS SHOWN.

3. NO DETERMINATIONS HAVE BEEN MADE REGARDING HAZARDOUS MATERIAL

4. NO DETERMINATIONS HAVE BEEN MADE REGARDING WETLANDS LOCATION. 5. PROPERTY IS SITUATED IN FLOOD ZONE X (BASE FLOOD ELEVATIONS DETERMINED) PER A PLAN ENTITLED "FIRM" FLOOD INSURANCE RATE MAP, FOR THE BOROUGH OF FANWOOD COMMUNITY/PANEL No. 340463 0023 F,

MAP No. 34039C0029F EFFECTIVE DATE SEPTEMBER 20th, 2006.

6. PLANIMETRIC & TOPOGRAPHIC INFORMATION SHOWN HEREON WAS FIELD

VERIFIED BY PAULUS, SOKOLOWSKI AND SARTOR, L.L.C. DURING DECEMBER,

7. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED

FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.

8. TOPOGRAPHIC INFORMATION SHOWN HEREON HAVE BEEN DRAWN IN ACCORDANCE WITH FIELD SURVEY PERFORMED BY PAULUS SOKOLOWSKI & SARTOR, LLC., FEBRUARY 24, 2022.

__ PROPOSED RETAINING WALL PROPOSED 177 LF_ OF 6' BOARD ON BOARD FENCE BLOCK 69 LOT 5 18,650 S.F. 0.428 AC. LOT 6 N/F NICOLA & DINA DINIZO PROPOSED RETAINING WALL PROPOSED (3) EV CHARGING SPACES. CHARGERS MOUNTED ON WALL/COLUMNS PROPOSED 5: WIDE CONCRETE SIDEWALK PROPOSED CONCRETE CURB EXISTING NEW CURB SOUTH AVENUE - N.J. STATE HIGHWAY ROUTE 28 (66' R.O.W.) R=1465.50' L=101.76' D=03°58'42" CB=S56°59'41"W CL=101.74' ___PROPOSED CROSSWALK PROPOSED ADA RAMP Q UP#61054FA

SCHEDULE OF BULK ZONING REQUIREMENTS BOROUGH OF FANWOOD, UNION COUNTY, NEW JERSEY COMMERCIAL CORRIDOR (CC) REDEVELOPMENT PLAN-EASTERN DISTRICT

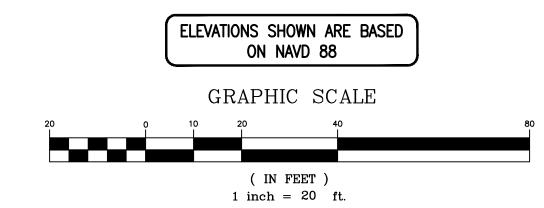
BULK ITEM	REQUIRED	EXISTING CONDITIONS	PROPOSED CONDITIONS	COMPLY
PERMITTED USE	MIXED USE RESIDENTIAL	RESTAURANT	RESIDENTIAL	YES
LOT AREA	10,000 S.F.	18,650 S.F.	18,650 S.F.	YES
LOT WIDTH	100 FEET	306.59 FEET	306.59 FEET	YES
FRONT PROPERTY LINE COVERAGE (OLD SOUTH AVE)	60%	12.7% (30 FEET/236.2 FEET)	62.3% (147 FEET/235.8 FEET)	YES
FRONT PROPERTY LINE COVERAGE (SOUTH AVE)	60%	9.03% (30.82 FEET/341.4 FEET)	68.2% (233 FEET/341.4 FEET)	YES
MINIMUM FRONT YARD SETBACK (OLD SOUTH AVE)	5.0 FEET	11 FEET	5.2 FEET	YES
MAXIMUM FRONT YARD SETBACK (OLD SOUTH AVE)	30.0 FEET	11 FEET	9.4 FEET	YES
MINIMUM FRONT YARD SETBACK (SOUTH AVE)	10.0 FEET	0.6 FEET	10.5 FEET	YES
MAXIMUM FRONT YARD SETBACK (SOUTH AVE)	20.0 FEET	0.6 FEET	10.9 FEET	YES
MINIMUM SIDE YARD SETBACK	10.0 FEET	131.15 FEET	10.1 FEET	YES
REAR YARD SETBACK	5.0 FEET	N/A	N/A	YES
BUILDING COVERAGE	N/A	776 S.F. (4.2%)	11,167 S.F. (59.9%)	YES
LOT COVERAGE	70%	6,780 S.F. (36.35%)	13,028 S.F. (69.9%)	YES
MINIMUM BUILDING HEIGHT	1.5 STORIES	1 STORY	3 STORIES	YES
MAXIMUM BUILDING HEIGHT (SOUTH AVENUE)	3 STORIES	1 STORY	3 STORIES	YES
	40 FEET	< 40 FEET	34.96 FEET	YES
MAXIMUM BUILDING HEIGHT (CORNER ELEMENT)	3 1/2 STORIES	N/A	3 1/2 STORIES	YES
SOUTH AVENUE	45 FEET	N/A	39.58 FEET	YES
MAXIMUM BUILDING HEIGHT	3 STORIES	1 STORY	3 STORIES	YES
OLD SOUTH AVENUE	40 FEET	< 40 FEET	39.75 FEET	YES
MAXIMUM BUILDING HEIGHT (CORNER ELEMENT)	3 1/2 STORIES	N/A	3 1/2 STORIES	YES
OLD SOUTH AVENUE	45 FEET	N/A	44.33 FEET	YES
MIN GROUND STORY (SOUTH AVENUE)	12 FEET	N/A	12 FEET	YES
MIN GROUND STORY (OLD SOUTH AVENUE)	12 FEET	N/A	12 FEET	YES
MIN UPPER STORY	10 FEET	N/A	10 FEET	YES

PARKING SCHEDULE							
<u>PARKING</u>	ORDINANCE/INDUSTRY STANDARD	REQUIRED	<u>EXISTING</u>	PROPOSED	COMPLY		
2 THREE-BEDROOM UNIT	1.5 PARKINGS SPACES/DWELLING	3 SPACES					
10 TWO-BEDROOM UNIT	1.5 PARKINGS SPACES/DWELLING	15 SPACES					
4 ONE-BEDROOM UNIT	1.5 PARKINGS SPACES/DWELLING	6 SPACES					
16 UNITS		24 SPACES	13 SPACES	24 SPACES	YES		
EV CHARGING STATION CREDIT	1:1 UP TO 10% OF REQUIRED PARKING	-2 SPACES					
	TOTAL WITH CREDIT	22 SPACES		24 SPACES	YES		
EV CHARGING STATION	15% OF PROPOSED PARKING	4 SPACES		4 SPACES	YES		

LAYOUT & DIMENSIONING PLAN

SCALE: 1"=20"







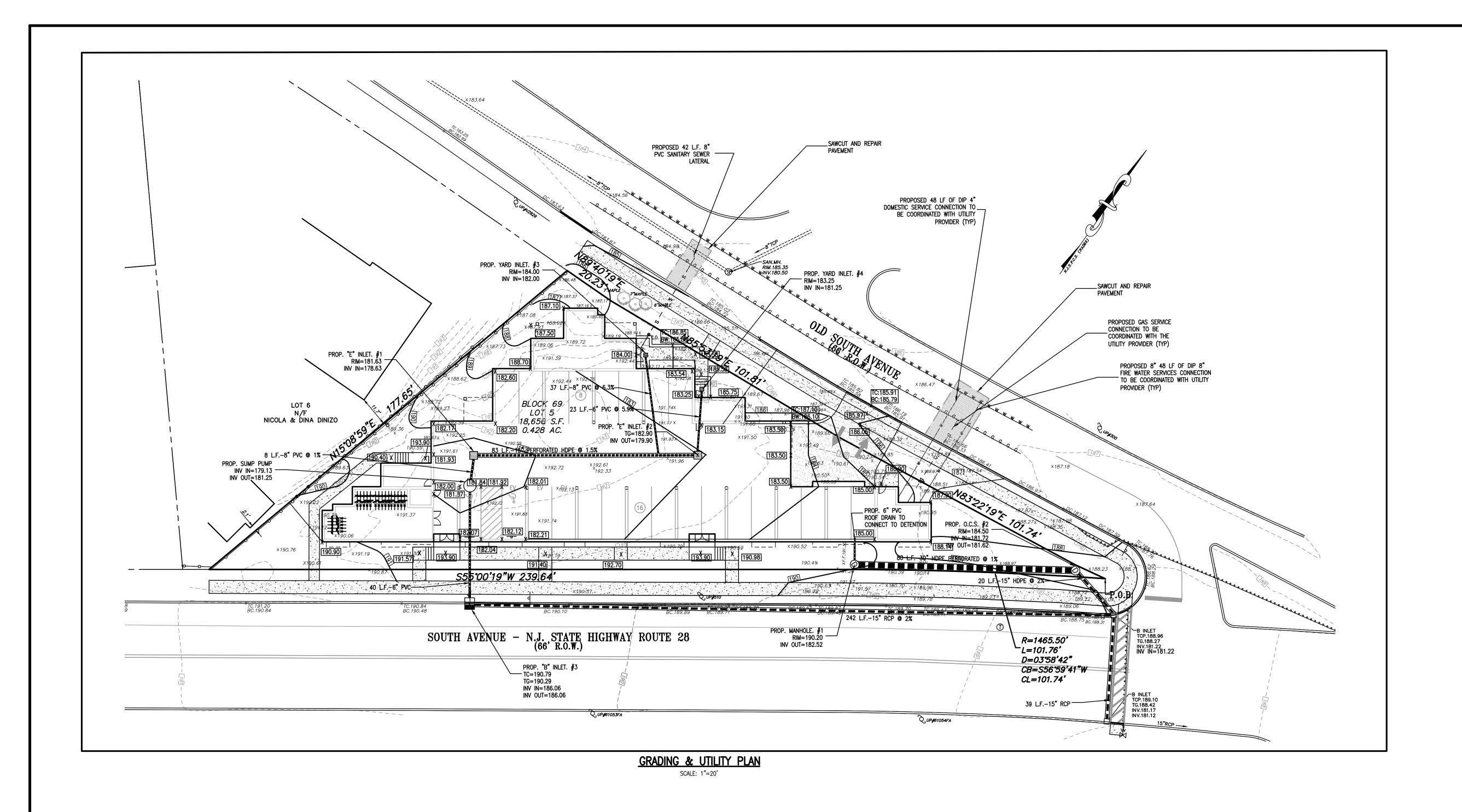
Phone (908) 276-2715 Fax (908) 709-1738 Email: info@hcicg.net

PRELIMINARY & FINAL SITE PLAN LAYOUT & DIMENSIONING PLAN

TOWN OF FANWOOD

NO. 383 SOUTH AVENUE LOT 5, BLOCK 69 PROFESSIONAL ENGINEER & LAND SURVEYOR NEW JERSEY LICENSE No. 34460 UNION COUNTY NEW JERSEY 2023112 Exist 24GA27962100

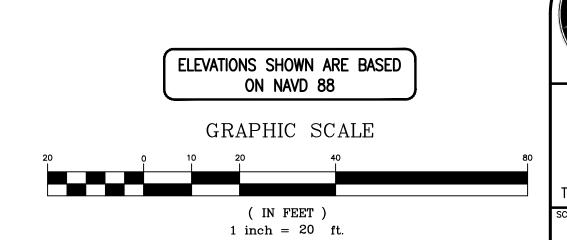


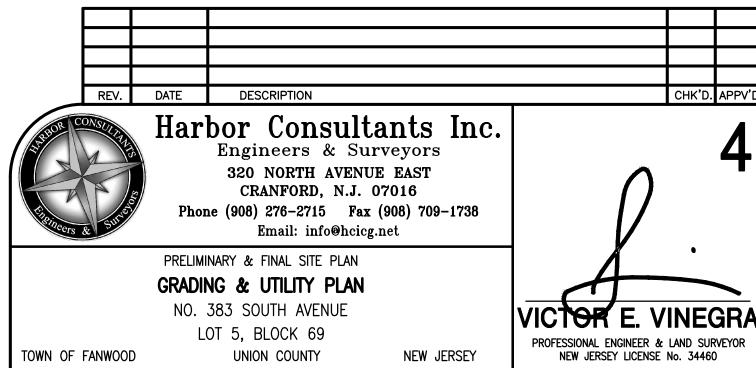




<u>LEGEND</u>

	STREET SIGN	0	IRON BAR FOUND
•	CLEANOUT		MAILBOX
S	SANITARY MANHOLE		STREET TREE
0	DRAINAGE MANHOLE	X 0.00	EXIST. SPOT ELEVATIO
	CATCH BASIN	— — 10 — —	EXISTING CONTOUR LI
	CATCH BASIN	—— G——	GAS LINE
₽	SOIL BORING	——w—	WATER LINE
-•	GUY WIRE	ĕv	GAS VALVE
b	UTILITY POLE	₩V	WATER VALVE
•	P.K. NAIL FOUND	$\overset{\sim}{\sim}$	FIRE HYDRANT
П	CONC MONUMENT FOUND	$\dot{\Upsilon}$	LICHT POST

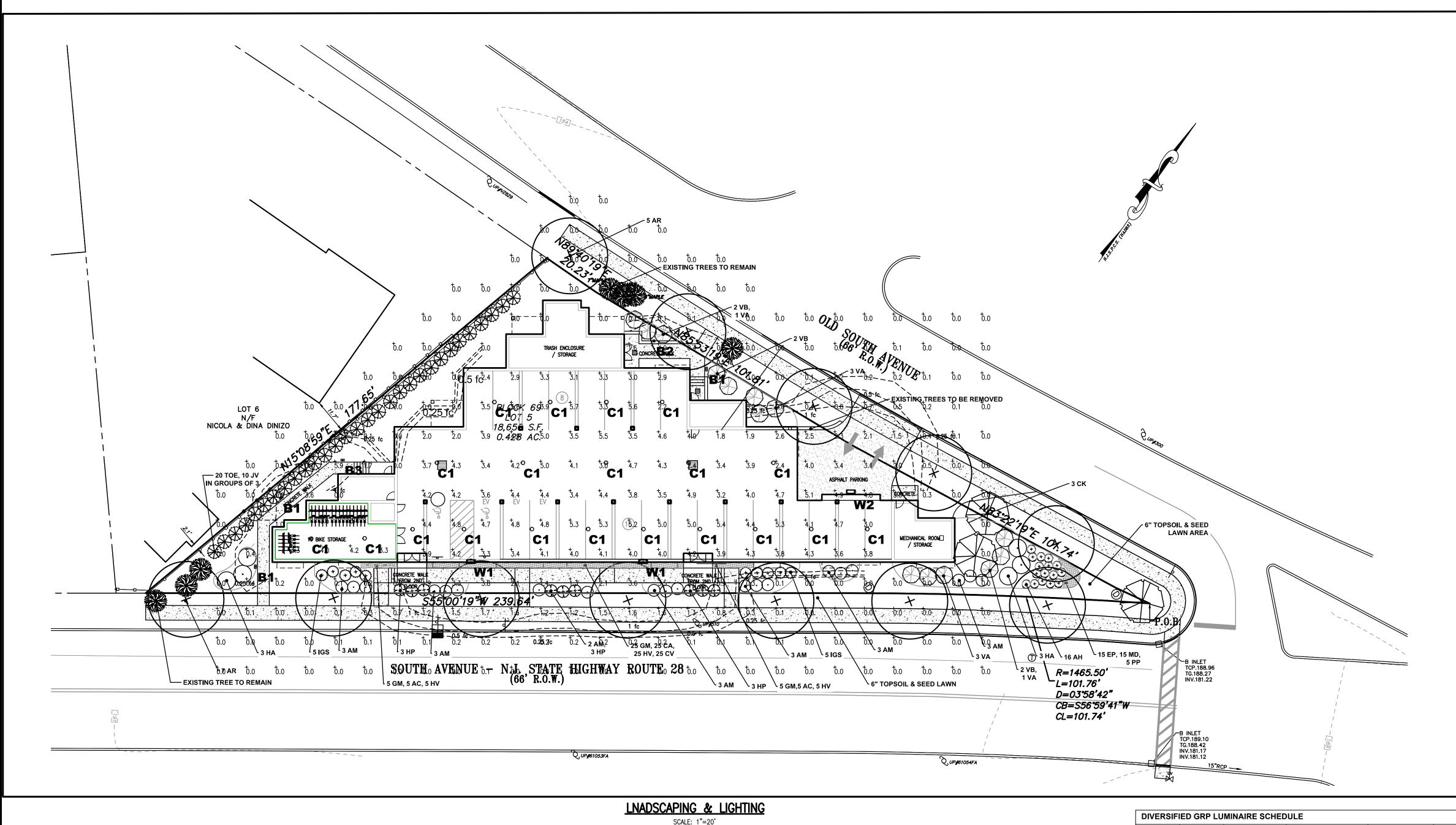




2023112 Exist

24GA27962100

V.E.V.



- CONTRACTOR SHALL INSPECT SITE PRIOR TO BEGINNING PLANTING OPERATIONS AND NOTIFY THE OWNER OF ANY CONDITIONS THAT ARE NOT SUITABLE TO PERFORMING PLANTING OPERATIONS. CONTRACTOR SHALL NOTIFY OWNER'S REP. OR LANDSCAPE ARCHITECT OF ANY CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.
- 2. PLANT GROUPINGS & LOCATIONS ARE DIAGRAMMATIC. THE LOCATION OF PLANTS SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
- 3. ALL PLANTS IN THE SAME PLANTING BED SHALL BE PLANTED AT THE SAME TIME. ANY PLANTS REMAINING UNPLANTED ON THE SITE FOR MORE THAN 24 HRS. SHALL BE PROTECTED AND MAINTAINED INCLUDING BUT NOT LIMITED TO WATER AND SHADE. ANY DAMAGED PLANTS SHALL BE REPLACED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.
- 4. ALL PLANT MATERIAL SHALL CONFORM TO THE MOST CURRENT ISSUE OF "ANSI Z60.1-2014 NURSERY STOCK STANDARDS" OR LATEST EDITION. ALL PLANTS TO BE NURSERY-GROWN UNDER SIMILAR CLIMATIC CONDITIONS AS JOB SITE FOR AT LEAST 2 YEARS. PLANTS SHALL BE DISEASE FREE, VIGOROUS, WITH WELL DEVELOPED ROOT SYSTEMS. TREES SHALL HAVE STRAIGHT TRUNKS, LEADER INTACT, UNDAMAGED & UNCUT.
- 5. THERE WILL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.
- 6. CONTRACTOR SHALL CONTACT AGENCIES FOR UTILITY MARK-OUT PRIOR TO PLANTING.
- 7. ALL PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
- 8. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE. SPRING PLANTING SEASON SHALL BE MARCH 15 THROUGH MAY 15; FALL PLANTING SEASON SHALL BE OCT. 15 THROUGH DEC 15. PLANTING IS ACCEPTABLE DURING OTHERTIMES IF WEATHER PERMITS, THE GROUND IS NOT FROZEN AND SUPPLEMENTAL WATERING IS PROVIDED (IN SUMMER MONTHS).
- 9. NO PLANT, OTHER THAN GROUNDCOVER, MAY BE PLANTED CLOSER THAN TWO FEET TO EXISTING STRUCTURES OR SIDEWALKS.
- 10. THE FOLLOWING 'FALL PLANTING HAZARD' TREE SPECIES SHALL BE PLANTED IN THE SPRING SEASON ONLY:

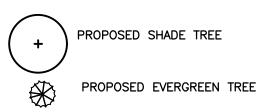
CONTAIN 5% ORGANIC MATTER, pH 5.0 TO 7.0 INCLUSIVE. DO NOT PLACE ANY SOIL ON TOP OF ROOT BALL.

ACER RUBRUM LIQUIDAMBAR

CARPINUS

- QUERCUS (EXCEPT Q. palustris)
- 11. THE CONTRACTOR SHALL LAYOUT ALL TREES, TREE PITS , SHRUBS, AND SHRUB BEDS PRIOR TO INSTALLATION FOR APPROVAL. FINAL LOCATION OF ALL PLANTS TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
- 12. SOIL TEST SHALL BE PERFORMED AND ADJUSTMENTS TO pH AND AMENDMENTS MADE IN ACCORDANCE WITH RECOMMENDATIONS FROM TESTING LAB (I.E., RUTGERS SOIL TESTING LAB). AT A MINIMUM, TREES PITS & SHRUB BEDS SHALL HAVE COMPOST ADDED TO THE TOPSOIL MIX AT THE RATIO OF 2 PARTS
- 13. TOPSOIL FOR PLANTING PITS AND BEDS SHALL BE SANDY LOAM: FREE FROM SUBSOIL, STONES LARGER THAN 1", OR ANY UNDESIRABLE MATERIAL:
- 14. TREES AND SHRUBS SHALL BE PLANTED SO THAT THE ROOT FLARE IS LEVEL OR SLIGHTLY ABOVE FINISHED GRADE AFTER ALLOWING FOR WATERING & SETTLING. REMOVE EXCESS SOIL FROM TOP OF BALL AS REQUIRED TO EXPOSE ROOT FLARE.
- 15. PLANTS MUST BE WATERED AS THEY ARE PLANTED. TREES TO BE WATERED WITH 10 GALLONS OF POTABLE WATER WHEN BACKFILLED TO ONE HALF FINISHED HEIGHT. AN ADDITIONAL 10 GALLONS AFTER COMPLETELY BACKFILLED AND MULCHED.
- 16. CUT AND REMOVE ALL BURLAP & STRING FROM ROOT BALL. REMOVE ENTIRE WIRE BASKET & DISPOSE OF LEGALLY OFF SITE.
- 17. LOCATE TREE SUPPORT SYSTEM SO THAT IT WILL NOT PULL CROTCH APART. USE ARBOR-TIE, ¾" FLAT WOVEN POLYPROPYLENE STRAPS. TIE TO
- STAKES IN A MANNER THAT PERMITS SOME TREE MOVEMENT AND SUPPORTS TREE. 18. UPON COMPLETION OF THE PLANT WARRANTEE PERIOD, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING OR REMOVING ALL STAKES,
- AS WELL AS STAKING MATERIAL. WARRANTEE BEGINS AT DATE OF ACCEPTANCE.
- 19. ALL PLANTS AND ENTIRE SHRUB BEDS TO RECEIVE 3" MAX. LAYER OF MULCH. MULCH SHALL NOT COME IN DIRECT CONTACT WITH TREE TRUNKS. 20. IF THERE IS A DISCREPANCY BETWEEN THE PLANT COUNT SHOWN IN THE PLANT LIST AND THE PLANTING GRAPHIC, THE GRAPHIC SHALL TAKE PRECEDENCE.
- 21. IF THE CONTRACTOR DETERMINES THE SUB-GRADE SOIL CONDITIONS ARE DELETERIOUS TO PLANT GROWTH OR WILL INHIBIT DRAINAGE, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND PRIOR TO INSTALLATION OF PLANT MATERIAL.
- 22. MAINTAIN TREES AND GROUNDCOVER UPON COMPLETION OF PLANTING OPERATIONS AND UNTIL ISSUANCE OF FINAL ACCEPTANCE.
- 23. PLANTED AREAS SHALL BE WATERED BY THE CONTRACTOR WHEN RAINFALL IS LESS THAN 1" PER WEEK. SHRUBS SHALL RECEIVE 3-5 GALLONS PER PLANT AND TREES 7-10 GALLONS PER INCH OF CALIPER PER WEEK, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- 24. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" TOPSOIL IN ALL LAWN AREAS. PLANT PERENNIALS AND GROUNDCOVER IN 8" DEEP TOPSOIL BED CONSISTING OF 2/3 TOPSOIL AND 1/3 HUMUS. PLANT BULBS IN NATURALIZED DRIFTS. PLANT SHRUBS AND TREES AS PER PLANT DETAILS.
- 25. TOPSOIL AND SEED ALL AREAS DISTURBED AS A RESULT OF ANY AND ALL DISTURBANCES, CONSTRUCTION, OR STORAGE OF EQUIPMENT WHETHER SUCH AREAS ARE SHOWN ON THE PLANS OR NOT. DECOMPACT ALL AREAS PREVOUSLY PAVED.
- LAWN AREA MIX (AREAS NOT DESIGNATED FOR OTHER SEED MIXES):
- ONYX TURF-TYPE TALL FESCUE MONTAUK TURF-TYPE TALLFESCUE
- SANTA FE TURF-TYPE TALL FESCUE WASHINGTON KENTUCKY BLUEGRASS
- SEEDING RATE 75-100 LBS./ACRE SEED MULCH SHALL BE STRAW OR HAY, OR WOOD CELLULOSE FIBER, OR SOIL STABILIZATION MATTING.

LEGEND



PROPOSED ORNAMENTAL TREE PROPOSED EVERGREEN SHRUB PROPOSED DECIDUOUS SHRUB PROPOSED GROUNDCOVER

PROPOSED PERENNIAL PROPOSED VINE

<u>LEGEND</u>

	STREET SIGN	0	IRON BAR FOUND
•	CLEANOUT		MAILBOX
S	SANITARY MANHOLE		STREET TREE
(D)	DRAINAGE MANHOLE	X 0.00	EXIST. SPOT ELEVATION
	CATCH BASIN	— — 10 — —	EXISTING CONTOUR L
	CATCH BASIN	—— G——	GAS LINE
₿	SOIL BORING	——w—	WATER LINE
-•	GUY WIRE	SV ⋈	GAS VALVE
b	UTILITY POLE	₩V	WATER VALVE
•	P.K. NAIL FOUND	₩,	FIRE HYDRANT
⊡	CONC. MONUMENT FOUND	\$	LIGHT POST

PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPC	COMMENTS
Shad	e Trees			-	7	-	-
AR	12	Acer Rubrum 'October Glory'	Red Maple	2 1/2"-3" cal, 12'-16' ht.	B&B		Symmetrical, leader intact, branched 7' from grade
Orna	mental	Trees					
CK	3	Cornus Kousa	Kousa dogwood	8'-10' ht.	B&B		Well established, heavy, symmetrical
Ever	green T	rees					
JVT	10	Juniperus virginiana 'Taylor'	Taylor red cedar	6'-7' ht.	B&B		Well established, heavy, symmetrical
TOE	20	Thuja occidentalis 'Smaragd'	Emerald green arborvitae	6'-7' ht.	B&B		Well established, heavy, symmetrical
Shru	bs						
AM	20	Aronia melanocarpo 'Low scape mound'	Low Scape chokeberry	24-30"	#3 Can	36" O.C.	Well established, heavy, symmetrical
HA	6	Hydrangea arborescens 'Annabelle'	Annabelle hydrangea	24-30"	#5 Can	60" O.C.	Well established, heavy, symmetrical
HP	9	Hypericum perforatum	St. John's wort	24-30"	#3 Can	36" O.C.	Well established, heavy, symmetrical
IGS	10	Ilex glabra 'Shamrock'	Shamrock inkberry	24-30"	#3 Can	36" O.C.	Well established, heavy, symmetrical
VA	6	Viburnum nudum 'Brandywine'	Brandywine viburnum	30-36"	#7 Can	72" O.C.	Well established, heavy, symmetrical
VB	8	Viburnum acerifolium	Mapleleaf viburnum	30-36"	#7 Can	72" O.C.	Well established, heavy, symmetrical
Grou	ndcove	r, perennials, grasses					
AH	16	Amsonia hubrichtii	Threadleaf bluestar		#3 Can	36" O.C.	Well established, heavy, symmetrical
AC	10	Aquilegia canadensis	Red columbine		1 qt.	12" O.C.	Vigorous, well established in containers
CA	25	Carex appalachia	Appalachian sedge		1 qt.	12" O.C.	Vigorous, well established in containers
CV	25	Coreopsis verticillata 'Zagreb'	Zagreb tickseed		1 qt.	18" O.C.	Vigorous, well established in containers
EP	15	Echinacea purpureum	Purple coneflower		1 qt.	18" O.C.	Vigorous, well established in containers
GM	35	Geranium maculatum	Hardy geranium		1 qt.	18" O.C.	Vigorous, well established in containers
HV	35	Heuchera villosa	Coral bells		1 qt.	12" O.C.	Vigorous, well established in containers
MD	15	Monarda didyma	Scarlet beebalm		1 qt.	18" O.C.	Vigorous, well established in containers
PP	5	Phlox paniculata 'Sweet Summer Dream'	Pink tall phlox		1 qt.	18" O.C.	Vigorous, well established in containers

TREE REPLACEMENT CHART

SIZE	EXISTING TREE	REQUIRED- 2 1/2"	PROVIDED
8"	MAPLE	1	(12) 2-1/2" CAL.
12"	MAPLE	1	Acer rubrum 'October Glory'
9"	MAPLE	1	
21"	MAPLE	5	

DIVERS	DIVERSIFIED GRP LUMINAIRE SCHEDULE										
Qty	Туре	Arrangement	Symbol	Manufacturer	Light Fixture Spec	ССТ	Lum. Lumens	LLF	Lum. Watts	Arr. Watts	Mounting AFG (FT)
3	B1	Single	→	BEACON	VPB-24L-10-3K7-2-VOLTS-42-FINISH	3000K	850	0.900	6.6	6.6	3.5
1	B2	Single	→	BEACON	VPB-24L-10-3K7-3-VOLTS-42-FINISH	3000K	794	0.900	6.6	6.6	3.5
1	В3	Single	Ð	BEACON	VPB-24L-10-3K7-4W-VOLTS-42-FINISH	3000K	830	0.900	6.6	6.6	3.5
20	C1	Single	Ð	BEACON	SRT1-20-3K7-5QW-VOLTS-FINISH-NXWS-12F-MS8	3000K	2846	0.900	22.6	22.6	10
2	W1	Single	•	BEACON	VPW2-18L-25-3K7-3-VOLTS-FINISH-NWS12F-MS8	3000K	3212	0.900	22.6	22.6	10
1	W2	Single	l 1	BEACON	VPW2-18L-25-3K7-4F-VOLTS-FINISH-NWS12F-MS8	3000K	3222	0.900	22.6	22.6	11

DIVERSIFIED GRP CALCULATON SUMMARY							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING GARAGE	Illuminance	Fc	3.96	5.7	1.8	2.20	3.17

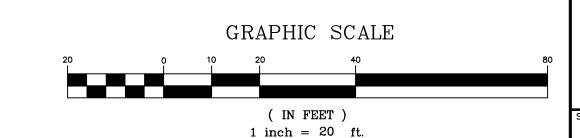
DIVERSIFIED GROUP 55 LANE ROAD FAIRFIELD, NJ 07004 LIGHTING DESIGNER: MATTHEW STERNER

EMAIL: MSTERNER@DIVGRP.COM

PHONE: (908) 907-8462

SITE LIGHTING CONTROLS SEQUENCE OF OPERATION IN COMPLIANCE WITH ASHRAE 90.1-2019

- EACH SITE FIXTURE TO BE EQUIPPED WITH NX CONTROLS, WHICH IS A
- WIRELESS BLUETOOTH MESH CONTROL SYSTEM.
- CONTROL SYSTEM IS TO BE ACCESSIBLE VIA IOS APP FOR PROGRAMMING. - EACH SITE FIXTURE TO HAVE AN INTEGRAL MOTION AND PHOTO SENSOR MODULE
- TO PROVIDE MULTI-LEVEL CONTROL BASED ON MOTION AND/OR DAYLIGHT.
- SENSOR MODULE ALSO TO HAVE BUILT-IN TIME KEEPER FUNCTIONALITY TO ALLOW
- THE SCHEDULING OF DIMMING EVENTS BASED ON TIME OF DAY.
- ALL SITE LIGHTS TO TURN ON AT DUSK AND OFF AT DAWN. - LIGHTS TO REMAIN FULL BRIGHTNESS UNIT 12 A.M., AT WHICH TIME THE LIGHTS WILL DIM
- TO 50% OUTPUT UNTIL DAWN. - ANY MOTION DETECTED ON SITE AFTER 12 A.M. WILL KICK THE POWER UP TO 100% BRIGHTNESS.
- AFTER A DURATION OF 15 MINUTES WITH NO MOTION DETECTION, THE LIGHTS WILL RESUME BACK TO THE DIMMED 50% STATE.
- MULTIPLE LIGHT FIXTURES TO BE GROUPED TOGETHER INTO ZONES BASED ON AREA AND TRAFFIC PATTERNS. MOTION DETECTION WILL ACTIVATE THE ENTIRE ZONE, NOT THE INDIVIDUAL FIXTURE, TO ENSURE UNIFORM COVERAGE IN THE AREA.



ELEVATIONS SHOWN ARE BASED ON NAVD 88



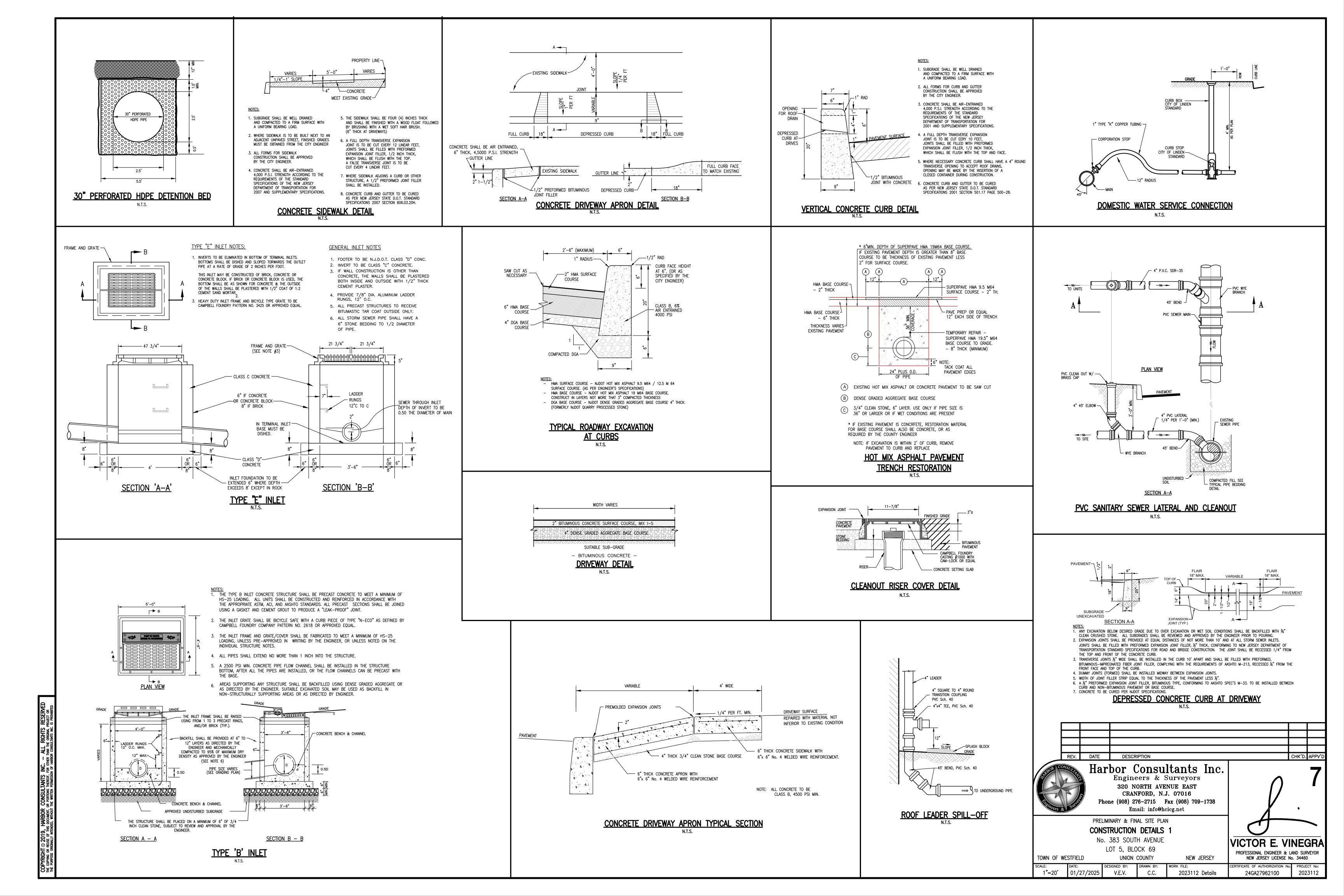
CRANFORD, N.J. 07016 Phone (908) 276-2715 Fax (908) 709-1738

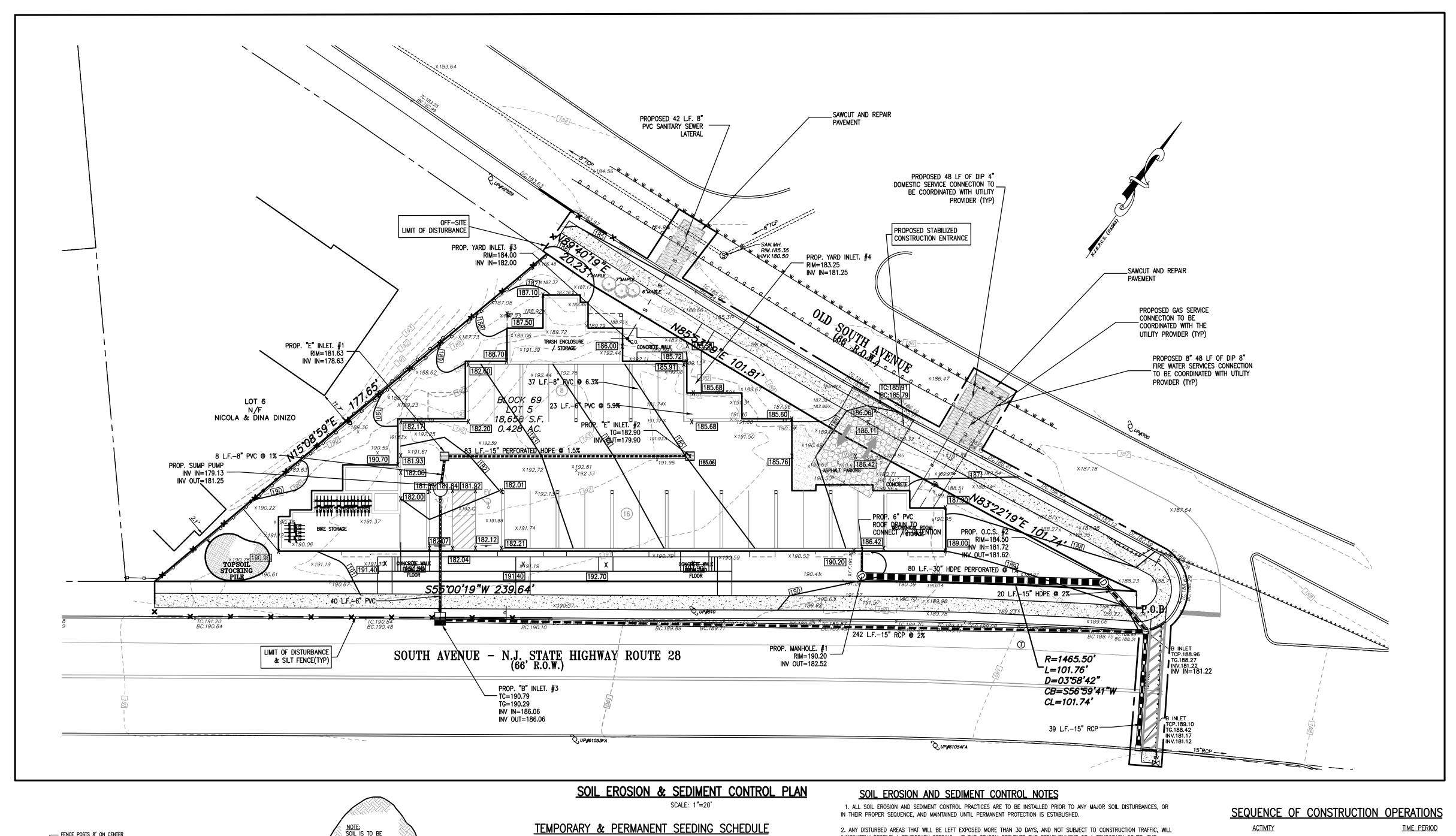
Email: info@hcicg.net PRELIMINARY & FINAL SITE PLAN

V.E.V.

LANDSCAPING & LIGHTING PLAN NO. 383 SOUTH AVENUE LOT 5, BLOCK 69 TOWN OF FANWOOD UNION COUNTY **NEW JERSEY**

PROFESSIONAL ENGINEER & LAND SURVEYOR NEW JERSEY LICENSE No. 34460 2023112 2023112 L&L 24GA27962100





- FENCE POSTS 8' ON CENTER FABRIC ALONG TOP OF FENCE — FABRIC MESH FENCE

—— G—— GAS LINE

WATER LINE

GAS VALVE

WATER VALVE

FIRE HYDRANT

LIGHT POST

——w—

-DIG 6" DEEP TRENCH, BURY BOTTOM FLAP, TAMP IN PLACE

CATCH BASIN

SOIL BORING

UTILITY POLE

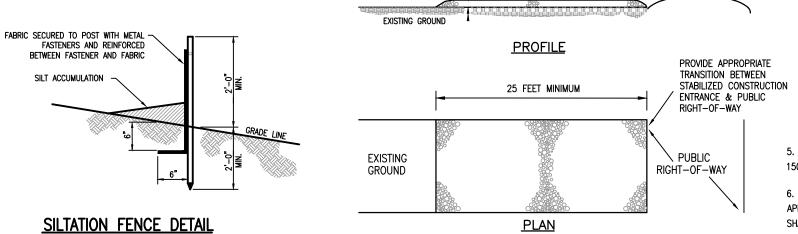
P.K. NAIL FOUND

CONC. MONUMENT FOUND

GUY WIRE

TOPSOIL STOCKPILING DETAIL 25 FEET MINIMUM 3" THICKNESS EXISTING R.O.W. EXISTING GROUND **PROFILE**

(SEE DETAIL)



APPROVED METHODS. 6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.

7. AT POORLY DRAINED LOCATIONS, SUBSURFACE DRAINAGE SHALL BE INSTALLED BEFORE INSTALLATION. STABILIZED CONSTRUCTION ENTRANCE

(REVISED PER "NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7th EDITION, DECEMBER 2017) I. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION, REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL

2. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT SOIL COMPACTED, THE AREA MUST BE RETILLED AND

3. TEMPORARY SEEDING SHALL CONSIST OF SPRING OATS APPLIED AT A RATE OF 2.0 LBS. PER 1,000 SF OR GRAIN RYE APPLIED AT A RATE OF 2.4 LBS. PER 1,000 SF. TEMPORARY SEEDING TO BE MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH PERMANENT SEEDING. IF ANY SERIOUS EROSION PROBLEM OCCURS, THE ERODED AREAS SHALL BE REPAIRED AND STABILIZED WITH A MULCH AS INDICATED IN NOTE 6.

PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL. SITE CONTAINS SOIL HALEDON-URBAN LAND-HASBROUCK COMPLEX, O TO 8 PERCENT SLOPES CLASSIFIED AS "SOMEWHAT POORLY DRAINED" AS PER NJ WEB SOIL SURVEY USDA PLANTING MIXTURE TO BE USED: MIX-16 (RESIDENTIAL/COMMERCIAL USE)

STRONG CREEPING RED FESCUE @ 130 lb/Ac. SITE IS LOCATED WITHIN USDA PLANT HARDINESS ZONE 6b, PLANTING DATES: ACCEPTABLE DATE: 3/01 TO 4/30 ACCEPTABLE DATE: 5/01 TO 8/14 (**

ROUGH BLUEGRASS @ 90 lb/Ac.

OPTIMAL DATE: 8/15 TO 10/15 (**) SUMMER SEEDINGS SHOULD ONLY BE CONDUCTED WHEN THE SITE IS IRRIGATED. MIXES INCLUDING WHITE CLOVER REQUIRE THAT AT LEAST SIX SEEKS OF GROWING SEASON REMAIN AFTER SEEDING TO ENSURE ESTABLISHMENT BEFORE FREEZING CONDITIONS.

5. "PERMANENT SEEDING TO BE APPLIED BY CYCLONE SPREADER OR OTHER APPROVED METHOD, AT A RATE OF 150#/ACRE. SLOPED AREA TO BE COVERED WITH MULCH AS INDICATED IN NOTE 6". 6. FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE 10-20-10

APPLIED AT A RATE OF 111b/1000 SF OR AS DETERMINED BY SOIL TESTS. LIMESTONE FOR TEMPORARY SEEDING SHALL BE APPLIED AT A RATE OF 90Ib/1000SF. LIMESTONE FOR PERMANENT SEEDING SHALL BE APPLIED AT A RATE OF 135lb/1000 SF.

7. IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE

8. ALL SEEDED AREAS SHALL BE MULCHED. MULCH SHALL CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER, LIQUID MULCH BINDER, OR AN APPROVED EQUAL AT A RATE

SHEELEN'S REAL ESTATE, LLC NB HOME IMPROVEMENTS, LLC 200 SOUTH AVENUE 1227 MORRIS AVENUE FANWOOD, NJ 07023 UNION, NJ 07085

5. AREA WITHIN LIMIT OF DISTURBANCE

29,643 S.F. (0.681 ACRES±)

UTILITY PLAN AND SUPPLEMENTS THERETO. 4. ALL ROADS AND WALKWAYS WILL BE SWEPT DAILY THROUGH THE DURATION OF CONSTRUCTION. IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING

3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY. 5. 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 15 DAYS OF THE PRELIMINARY GRADING. 6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCES OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.

7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).

8. THE STANDARDS FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD OF 1 1/2" TO 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.

9. THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE OF ANY LAND 10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATION STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER IT, SHALL BE REMOVED

GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. 11. IN THAT N.J.S.A. 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE

WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.

12. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING

OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE

13. 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. 14. THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.

15. MULCHING TO THE NJ STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONALS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.

16. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF CONSTRUCTION PROJECT. 17. THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF SOMERSET-UNION SOIL CONSERVATION DISTRICT.

18. HYDRO SEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC. ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY. GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPLIED AT A RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE NJ

	<u>ACTIVITY</u>	TIME PERIOD
1.	Install silt fence.	1 Day
2.	Install stabilized construction entrance.	1 Day
3.	Demolish existing structures and associated improvements.	1 Week
4.	Strip topsoil, stockpile and stabilize.	2 Days
5.	Excavate and construct Foundation.	2 Month
6.	Back fill Foundation, rough grade site and apply temporary seeding and or mulch as required.	3 Days
7.	Begin Building construction.	1 Year
8.	Connect underground utilities.	2 Week
9.	Install services walkways and pave driveway.	3 Days
10.	Finish grading site and apply permanent stabilization measures.	1 Week
11.	Remove temporary soil erosion control measures.	1 Day
12.	Complete Building and Landscaping.	2 Weeks

THIS PROJECT QUALIFIES FOR THE URBAN REDEVELOPMENT AREA EXEMPTION LISTED WITHIN EXEMPTION 1 ON A DOCUMENT ENTITLED 'NEW JERSEY DEPARTMENT OF AGRICULTURE STATE SOIL CONSERVATION COMMITTEE, CHAPTER 251, PL 1975 AS AMENDED, ENGINEERING POLICIES - TECHNICAL BULLETIN'. THIS PROJECT IS WITHIN THE METROPOLITAN PLANNING AREA (PA-1).

ELEVATIONS SHOWN ARE BASED ON NAVD 88 TOWN OF FANWOOD (IN FEET)

STANDARD FOR STABILIZATION WITH VEGETATIVE COVER (REVISED PER "NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7th EDITION, JULY 2017)

METHODS AND MATERIALS

SITE PREPARATION

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. B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH

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 ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.

D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

THE STANDARD FOR LAND GRADING.

1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.

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. 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 INSOLUBLE 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 SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN

B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY 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 PREPARED.

C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OF 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 REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS OF SPECIFIC REQUIREMENTS.

A. SELECT A MIXTURE FROM TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITH 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS

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.

2 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 TO 20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL-SEASON GRASSES.

CONVENTIONAL SEEDING IS PERFORMED BY APPLYING 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 WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/2 INCH, BY RAKING OR DRAGGING, DEPTH OF SEED PLACEMENT MAY BE

C. 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

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

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

A. STRAW OF 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 INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING ÒR 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 LAWN 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 EACH AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND

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 WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULICH SECURE MULICH TO SOIL SURFACE BY STRETCHING TWIN 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 MY 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 APPEARANCE. (B) USE ONE OF THE FOLLOWING:

DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

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 WIII FORM MFMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURF 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 USED IN THIS STATE.

SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND. FÓLLOWING 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

B. WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OF GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,5000 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT

MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. <u>MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED</u>. USE IS LIMITED TO FLATTER SLOPED 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 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 IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

5. <u>IRRIGATION (WHERE FEASIBLE)</u>

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

6. <u>TOPDRESSING</u>

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.

. <u>ESTABLISHING PERMANENT VEGETATIVE STABILIZATION</u>

THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN TABLE 4-3 ARE REQUIRED WHEN A REPORT OF COMPLIANCE I S REQUESTED PRIOR TO THE ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN APPLICATION RATES MAY BE US WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A <u>REPORT OF COMPLIANCE</u> FROM THE DISTRICT. THESE RATE APPLY TO ALL METHODS OF SEEDING. <u>ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) AND MOWED ONCE.</u>



2023112 SESC

320 NORTH AVENUE EAST CRANFORD, N.J. 07016 Phone (908) 276-2715 Fax (908) 709-1738 Email: info@hcicg.net

PRELIMINARY & FINAL SITE PLAN

SOIL EROSION & SEDIMENT CONTROL PLAN NO. 383 SOUTH AVENUE LOT 5, BLOCK 69

UNION COUNTY

V.E.V.

PROFESSIONAL ENGINEER & LAND SURVEYOR **NEW JERSEY** NEW JERSEY LICENSE No. 34460

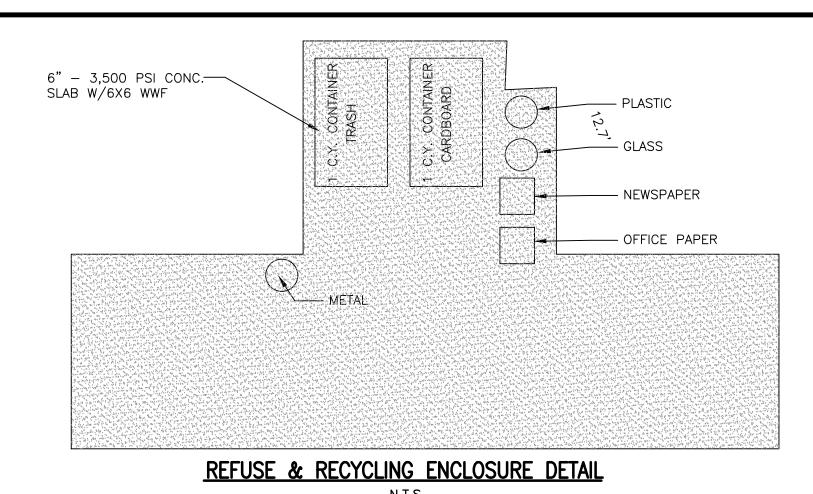
2023112

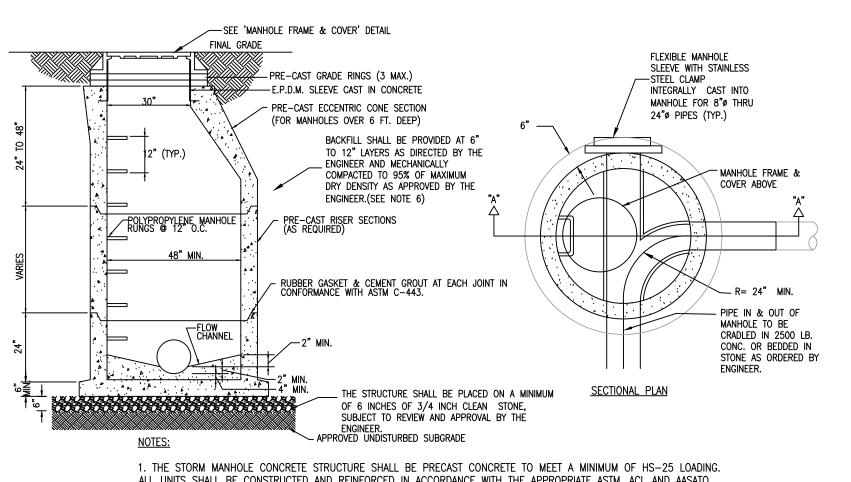
24GA27962100

STABILIZED CONSTRUCTION ENTRANCE SPECIFICATIONS STABILIZED WITH MULCH 1. STONE SIZE - USE ASTM C-33, SIZES NO. 2 OR 3. USE CRUSHED STONES. 2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET. <u>LEGEND</u> THICKNESS - NOT LESS THAN 8 INCHES. 4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, OF 70-90 LBS. PER 1000 SF. BUT IN NO CASE LESS THAN 15' WIDE. STREET SIGN IRON BAR FOUND 5. WASHING - WHEN NECESSARY. WHEELS SHALL BE CLEANED TO SOMERSET-UNION CONSERVATION DISTRICT
SOMERSET COUNTY 4-H CENTER REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. CLEANOUT MAILBOX WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA 308 MILLTOWN ROAD STREET TREE SANITARY MANHOLE SEDIMENT TRAP OR SEDIMENT BASIN, ALL. SEDIMENT SHALL BE BRIDGEWATER, NJ 08807 PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER (908)-526-2701 EXIST. SPOT ELEVATION DRAINAGE MANHOLE X 0.00 COURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS, OR OTHER CATCH BASIN --10--EXISTING CONTOUR LINE

> 3. THIS PLAN IS ONLY TO BE USED AS A GUIDE TO THE IMPLEMENTATION OF SOIL EROSION CONTROL MEASURES. IT IS NOT TO BE USED FOR CONSTRUCTION. REFER TO GRADING &

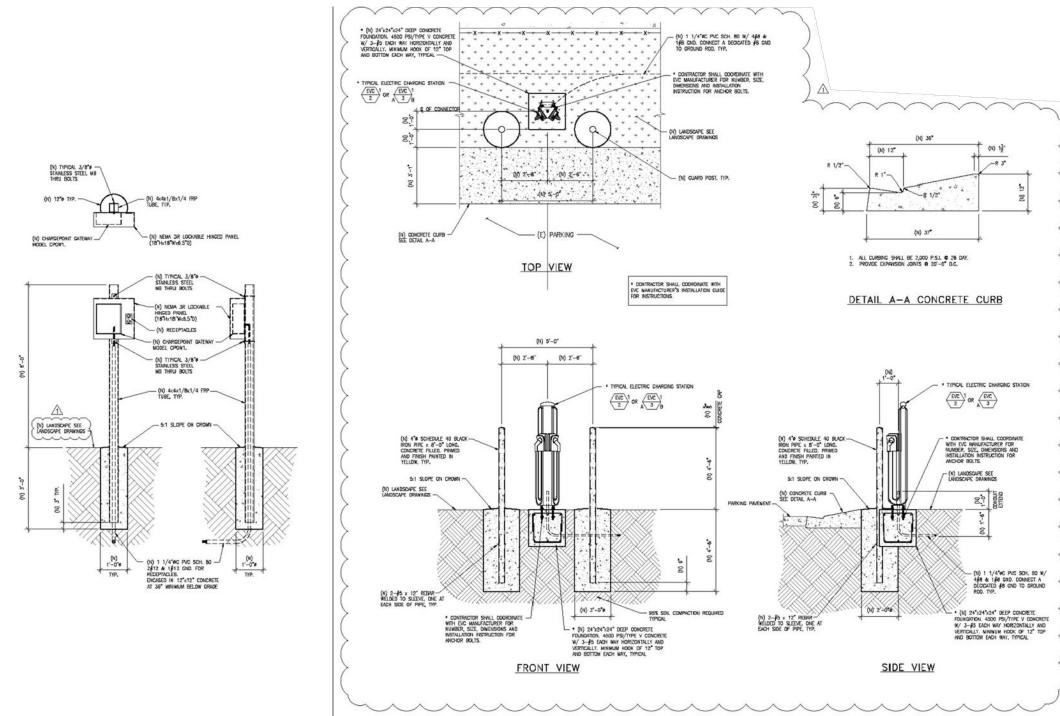
1 inch = 20 ft



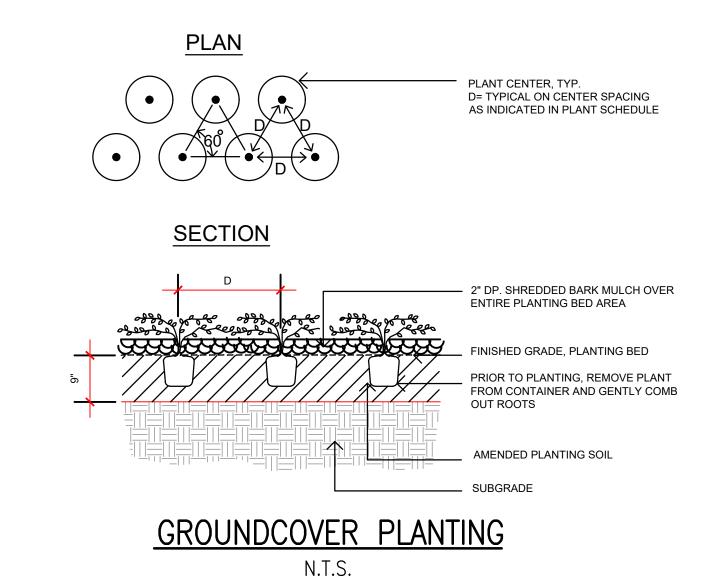


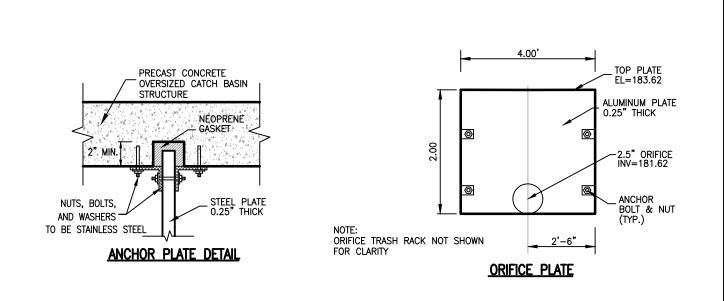
ALL UNITS SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE APPROPRIATE ASTM, ACI, AND AASATO STANDARDS. ALL PRECAST SECTIONS SHALL BE JOINED USING A GASKET AND CEMENT GROUT TO PRODUCE A LEAK-PROOF JOINT. 2. ALL PIPES ENTERING OR LEAVING THE STRUCTURE SHALL BE INSTALLED WITH AN ANTI-LEAK COLLAR. 3. THE MANHOLE FRAME AND GRATE/COVER SHALL BE FABRICATED TO MEET A MINIMUM OF HS-25 LOADING, UNLESS PRE-APPROVED IN WRITING BY THE ENGINEER, OR UNLESS NOTED ON THE INDIVIDUAL STRUCTURE NOTES. 4. ALL PIPES SHALL EXTEND NO MORE THAN 1 INCH INTO THE STRUCTURE. 5. A 2500 PSI MIN. CONCRETE PIPE FLOW CHANNEL SHALL BE INSTALLED IN THE STRUCTURE BOTTOM, AFTER ALL THE PIPES ARE INSTALLED, OR THE FLOW CHANNELS CAN BE PRECAST WITH THE BASE. 6. SUITABLE EXCAVATED SOIL MAY BE USED AS BACKFILL IN NON-STRUCTURALLY SUPPORTING AREAS OR AS DIRECTED BY THE CITY ENGINEER. AREAS SUPPORTING ANY STRUCTURE SHALL BE BACKFILLED USING DENSE GRADED AGGREGATE

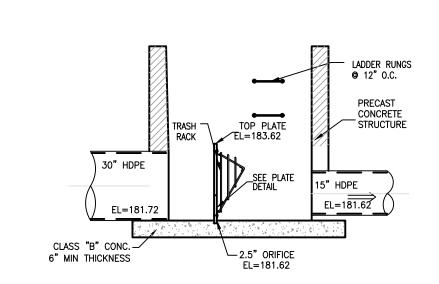
OR AS DIRECTED BY THE ENGINEER. STORM MANHOLE DETAIL



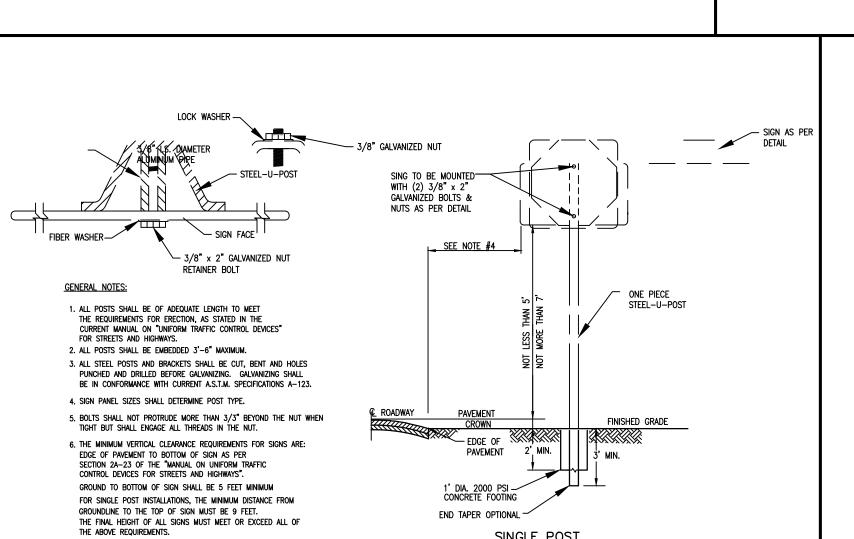
EV CHARGING STATION DETAIL





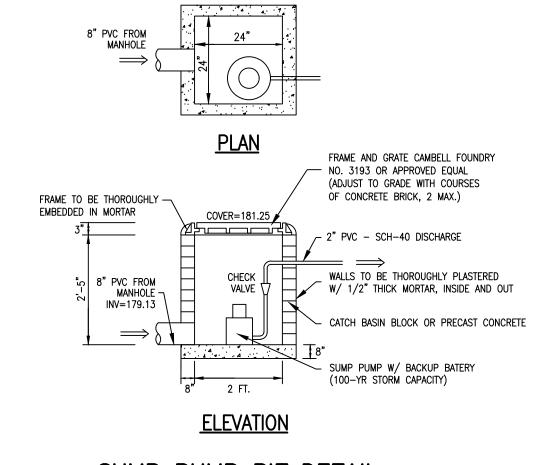


OUTLET CONTROL STRUCTURE DETAIL

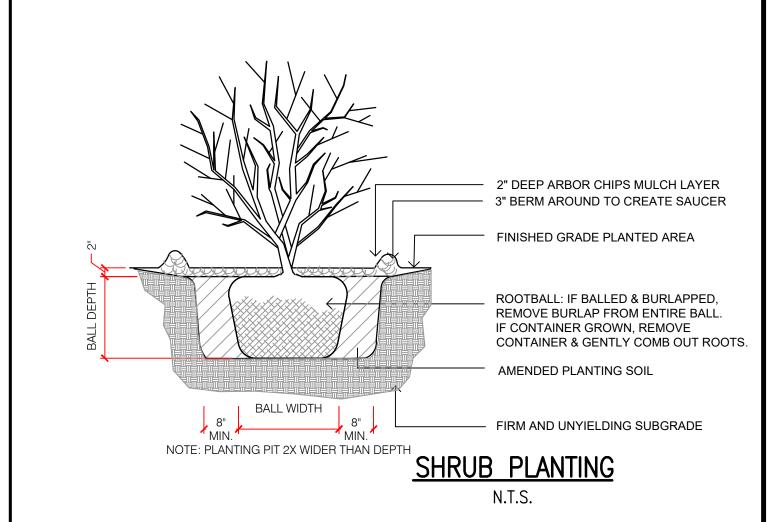


TYPICAL SIGN & MOUNTING DETAIL

30" X 30" OR SMALLER



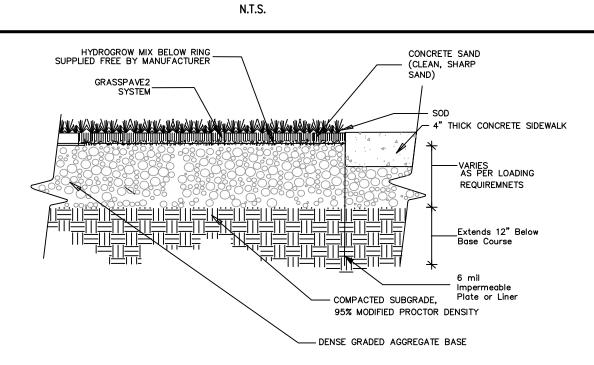
SUMP PUMP PIT DETAIL





ALL SIGNAGE SHALL CONFORM TO M.U.T.C.D. STANDARDS, LATEST EDITION.

PROPOSED SIGNAGE DETAILS



NOTE:

1. GRASS/PLANT TYPES SHALL BE SPECIFIED BY A LANDSCAPE ARCHITECT OR LANDSCAPE DESIGNER.

2. AS MANUFACTURED BY INVISIBLE STRUCTURES, INC. OR EQUAL.

3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

GRASSPAVER AT SIDEWALK EDGE DETAILS

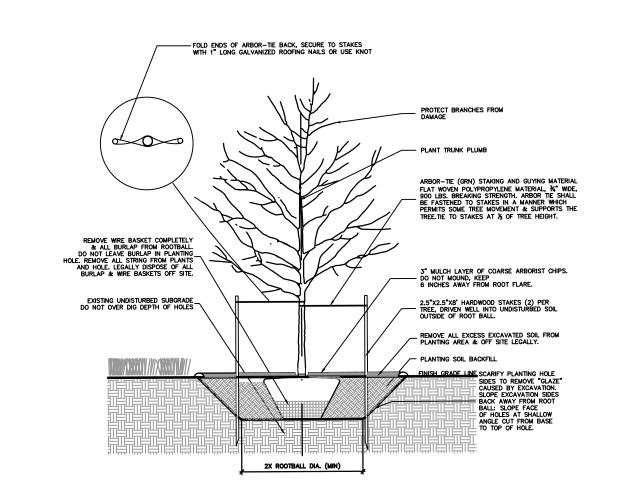
N.T.S.

> 12" DRAINAGE FILL TO WITHIN 18" OF TOP OF WALL BACKFILL MATERIAL 4" PERF PVC DRAIN © 0.02 TO DAYLIGHT

8) BENCH CUT ALL EXCAVATED SLOPES.

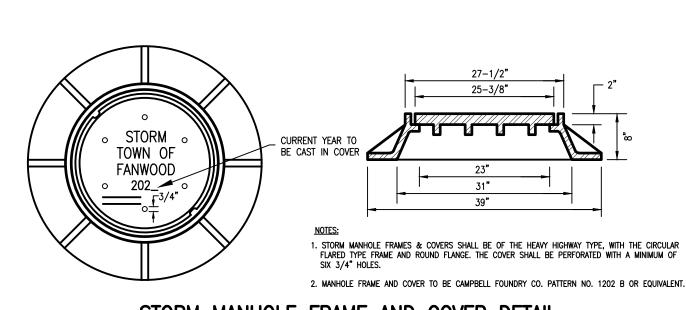
- 1) Drainage fill shall be 1/2" 3/4" washed river run gravel and shall be installed behind the wall to within 18" of the top of the wall. 2) GRANULAR BASE SHALL BE 3/4" CRUSHED GRAVEL, MINIMUM 6" THICK, COMPACTED TO 95%
- 3) GEOTECHNICAL ENGINEER SHALL INSPECT AND VERIFY THAT THE FOUNDATION (FOOTING) SOILS ARE OF A SUITABLE BEARING MATERIAL BASED ON THE ASSUMED SOIL PARAMETERS IN THE DESIGN OF THE WALL. SOILS SHALL NOT BE OVER EXCAVATED UNLESS UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER. UNDITABLE MATERIAL SHALL BE REMOVED ONLY UNDER THE DIRECTION OF A
- GEOTECHNICAL ENGINEER. 4) CONTRACTOR SHALL FOLLOW ALL APPLICABLE PROVISIONS OF THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS. 5) COMPACTION TESTS SHALL BE PERFORMED AS THE WALL IS INSTALLED UNDER THE DIRECTION OF THE SITE
- GEOTECHNICAL ENGINEER. COMPACTION SHALL BE TO 95% STANDARD PROCTOR DENSITY. 6) BACKFILL MATERIAL SHALL CONSIST OF WELL DRAINED LOAMY SAND, SANDY LOAM, LOAM TO SANDY CLAY LOAM AS SPECIFIED ON THE U.S.D.A. SYSTEM OF SOIL TEXTURAL CLASSIFICATION. ALL BACKFILL MATERIAL SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. 7) CONTRACTOR SHALL ESTABLISH TURF IMMEDIATELY UPON COMPLETION OF THE WALL.

9) BASE MATERIALS SHALL BE PLACED UPON UNDISTURBED SOILS. ALLAN BLOCK RETAINING WALL DETAIL

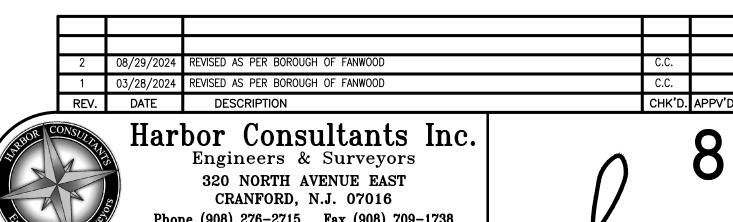


TREE PLANTING DETAIL

N.T.S.



STORM MANHOLE FRAME AND COVER DETAIL



Phone (908) 276-2715 Fax (908) 709-1738 Email: info@hcicg.net

PRELIMINARY & FINAL SITE PLAN CONSTRUCTION DETAILS 2

NEW JERSEY

VICTOR E. VINEGRA PROFESSIONAL ENGINEER & LAND SURVEYOR NEW JERSEY LICENSE No. 34460

2023112

383 SOUTH AVENUE LOT 5, BLOCK 69 TOWN OF FANWOOD UNION COUNTY V.E.V. 2023112 Details 24GA27962100