# PRELIMINARY AND FINAL SITE PLAN

# FOR

# SURFSIDE CROSSING PROPOSED MULTI-FAMILY DWELLINGS

BLOCK 405, LOTS 5, 6 & 7; TAX MAP SHEET #4 - LATEST REV. DATED 04-08-14 1102 9TH ÁVENÚE, 105 8TH AVENUE, & MEMORIAL DRIVE

				1 1			
		FORM A			FORM B		
ZONE REQUIREMENT	REQUIREMENT	EXISTING LOT 6	PROPOSED	REQUIREMENT	EXISTING LOT 5 & 7	PROPOSED	
MINIMUM LOT AREA	5,000 SF (0.12 Ac)	36,855 SF (0.85 AC	36,855 SF (0.85 AC)	5,000 SF (0.12 Ac)	42,197 SF (0.97 AC)	42,197 SF (0.97 AC)	TOWNSHIP OF NEPTUNE
MINIMUM LOT WIDTH	50 FT	300.0 FT	300.0 FT	50 FT	126.4 FT	126.4 FT	
MINIMUM LOT FRONTAGE	50 FT	533.8 FT	533.8 FT	50 FT	276.4 FT	276.4 FT	
FRONT YARD SETBACK (MEMORIAL DRIVE)							
-BUILDING	O FT MIN/ 15 FT MAX	N/A	0.0 FT	10 FT MIN/ 20 FT MAX	N/A	N/A	MONMOUTH COUNTY, NEW JERSE
-ACCESSORY STRUCTURE	24 FT MIN	N/A	N/A	24 FT MIN	N/A	N/A	
FRONT YARD SETBACK (8TH AVE)							
-BUILDING	0 FT MIN/ 15 FT MAX	N/A	0.0 FT	10 FT MIN/ 20 FT MAX	13.5 FT	11.4 FT	
-ACCESSORY STRUCTURE	24 FT MIN	N/A	N/A	20 FT MIN	N/A	125.1	
FRONT YARD SETBACK (9TH AVE)							
-BUILDING	0 FT MIN/ 15 FT MAX	N/A	0.0 FT	10 FT MIN/ 20 FT MAX	N/A	10.1 FT	
-ACCESSORY STRUCTURE	24 FT MIN	N/A	N/A	6 FT MIN	N/A	125.1 FT	
SIDE YARD SETBACK							
-BUILDING	0 FT MIN/ 15 FT MAX	N/A	N/A	5 FT MIN/NO MAX	14.2 FT	91.9 FT	
-ACCESSORY STRUCTURE	O FT MIN	N/A	N/A	6 FT	N/A	36.4 FT	
REAR YARD SETBACK							
-BUILDING	0 FT MIN	N/A	0.0 FT	5 FT MIN	9.9 FT	91.9 FT	
-ACCESSORY STRUCTURE	3 FT MIN	N/A	N/A	6 FT MIN	N/A	N/A	1 56.25' P 38 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MAXIMUM RESIDENTIAL DENSITY	20 UNITS/ AC	N/A	57.6 (49 UNITS) <b>(V)</b>	15 UNITS/ AC	2.06 UNITS/ ACRE	4.1 (4 UNITS)	
MAXIMUM BUILDING HEIGHT	4 STORIES/ 48 FT	N/A	4 STORIES/ 48 FT	3 STORIES/ 36 FT	15 FT	3 STORIES/ 36 FT	
MINIMUM BUILDING HEIGHT	2 STORIES	N/A	4 STORIES	2 STORIES	2 STORIES	3 STORIES	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	FORM A	FORM B	·				$9 \times 10^{-10} \times 10^{-$
REQUIREMENT EXIST	NG LOT 6 PROPOSED LOT 6	REQUIREMENT	EXISTING LOT 5 EXISTING L	OT 7 PROPOSED LOT 5 of	& 7 PROPOSED LOT COMBIN	IED	

1-BEDROOM = (13 UNITS, 25%)\*(1.8 PARKING SPACES/UNIT) = 23.4 SPACES USE 23 2-BEDROOM = (40 UNITS, 75%)\*(2.0 PARKING SPACES/UNIT) = 80 SPACES

MULTI-FAMILY DWELLING

SURFACE STALLS = 119 (INCLUDES 20 (15% OF TOTAL PARKING REQUIREMENT AS EV STALLS) 13 (10% OF TOTAL PARKING REQUIRED) CAN BE EV STALLS COUNTED AS 2 = 33 PROVIDED WITHIN EV

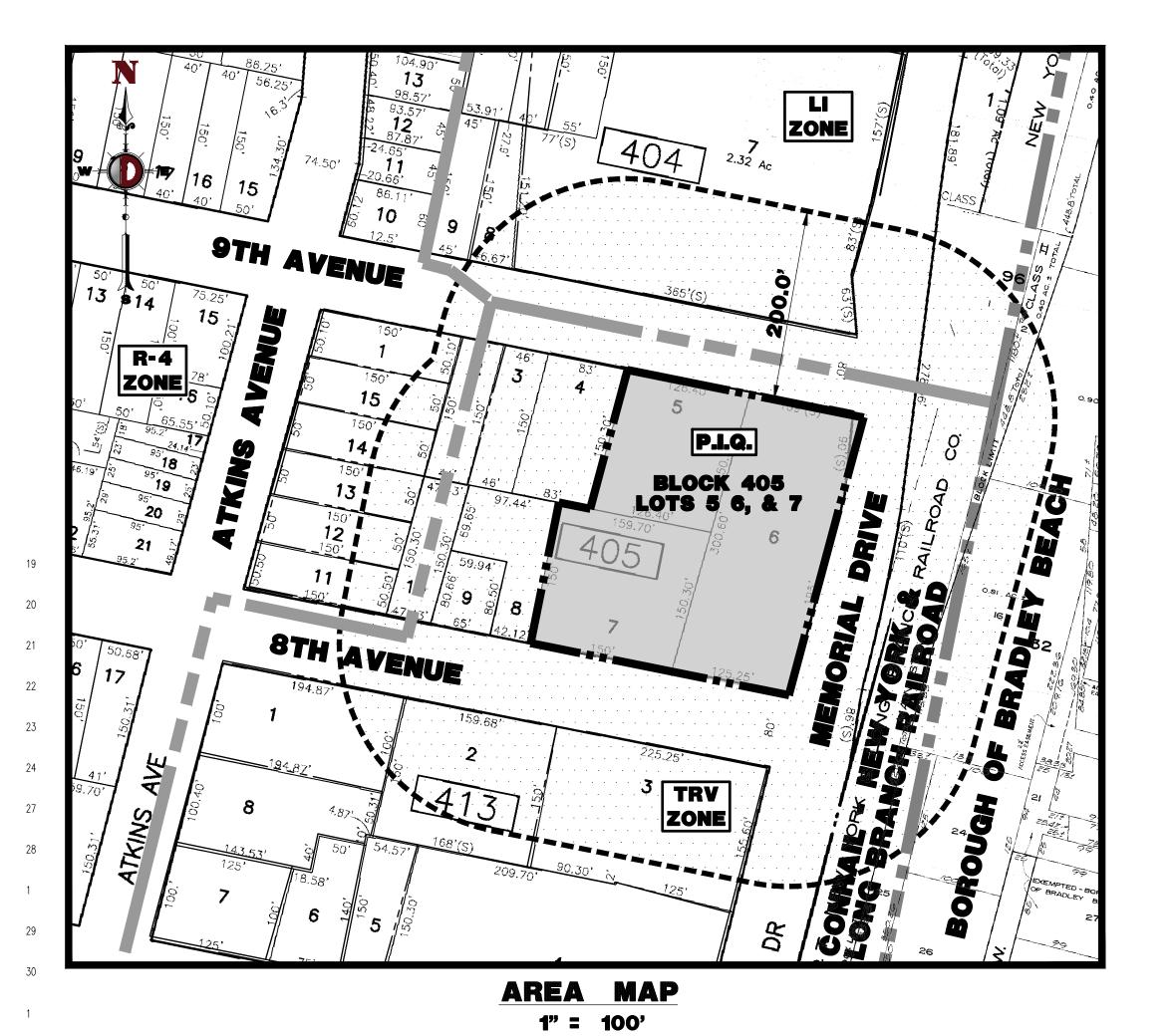
69.5% (29,327 SF)

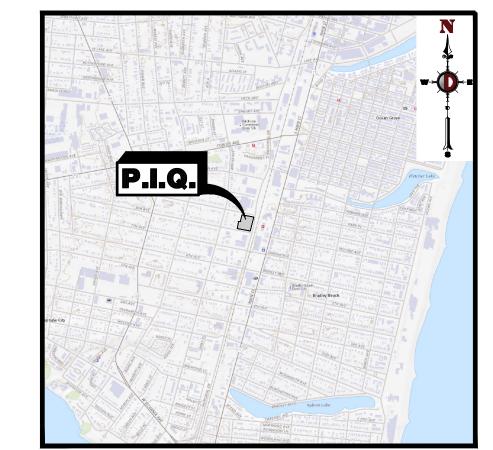
74.3% (58,718 SF)

RETAIL: (7,181 SF)\*(1 PARKING SPACE/250 GFA) = 28.7 SPACES (USE 29)

		-	132 SPACES PROVIDED (COMPLIES)	TOTAL PARKING PROVIDE	D = 119 SURFACE + 13 EV	= 132	
		200	PROPERTY	<b>OWNER</b>	S LIST		
TOWNSHIP OF NEPTUNE						LIN QIU QUN & ZHI LAN 801 MAIN ST	
<u>PROPERTY OWNER</u>	<u>BLOCK</u>	<u>LOT</u>	JCR EXCHANGE, LLC % DAVID 1161 BROAD STREET STE 112 SHREWSBURY, NJ 07702	2 413 3		BRADLEY BEACH, NJ 07720	32
CONRAIL NY-LONG BEACH 25 NEPTUNE BLVD			ALSO TO BE NOTIFIED:	110		FIRST AID & AMBULANCE CORPS. MAIN ST	
NEPTUNE TWP, 07753	309	1		O COMPANY INC		BRADLEY BEACH, NJ 07720	32
AMSDELL STORAGE VENTURES	S_IV_LLC		NEW JERSEY AMERICAN WATER ATT. DONNA SHORT GIS SUPE 1025 LAUREL OAK ROAD VORHEES, NJ 08043 NEW JERSEY NATURAL GAS C ATTN: RIGHT OF WAY DEPARTI 1415 WYCKOFF ROAD WALL TWP., NJ 07719	RVISOR		BOROUGH OF BRADLEY BEACH	
20445 EMERALD PKWAY SW CLEVELAND, OHIO 44135	#400 404	7	1025 LAUREL OAK ROAD VORHEES, NJ 08043			701 MAIN ST BRADLEY BEACH, NJ 07720	32
BALDWIN, MAMIE PHILPART		•	NEW JERSEY NATURAL GAS C ATTN: RIGHT OF WAY DEPARTI	OMPANY MFNT		BORO OF BRADLEY BEACH	
301 NEPTUNE BLVD	404	8	1415 WYCKOFF ROAD			701 MAIN ST BRADLEY BEACH, NJ 07720	32
NEPTUNE, NJ 07753	404	0					JZ
MEHDAOUI, ALI & CLAUDIA 400_ATKINS AVENUE			ATTN: LAND USE MATTERS			BORO OF BRADLEY BEACH 701 MAIN ST	7.0
NEPTUNE, NJ 07753	405	1	MONMOUTH CABLEVISION ATTN: LAND USE MATTERS 1501 18 <sup>TH</sup> AVENUE WALL TWP., NJ 07719			BRADLEY BEACH, NJ 07720	32
BURTON, TYLER J & COURTN 1114 09 <sup>TH</sup> AVE NEPTUNE, NJ 07753	IEY K		VERIZONI			BBVILLAGE LLC 1002 ST GEORGES AVE	
NEPTUNE, NĴ 07753	405	2	LEGAL DEPARTMENT, 17 <sup>TH</sup> FLO C/O LAND USE MATTERS	OOR		RAHWAY, NJ 07065	32
RUIZ, CAROLINA			540 BROAD SIREEI			BOROUGH OF BRADLEY BEACH	
1112 NINTH AVENUE NEPTUNE, NJ 07753	405	3	NEWARK, NJ 07102			701 MAIN STREET BRADLEY BEACH, NJ 07720	32
PARRISH, MAMIE L			JERSEY CENTRAL POWER & L ATTN: LAND USE MATTERS 300 MADISON AVENUE MORRISTOWN, NJ 07960	IGHI COMPANY		BOROUGH OF BRADLEY BEACH	
301 NEPTUNE BLVD NEPTUNE, NJ 07753	405	4	300 MADISON AVENUE MORRISTOWN, NJ 07960			701 MAIN ST BRADLEY BEACH, NJ 07720	32
J.J.P.P % DAVID J HARBER,		·				724 MAIN STIIC	
1161 BROAD STREET STE 11	2	5	MONMOUTH COUNTY PLANNING HALL OF RECORDS ANNEX PIO BOX 1255	DOMO		708 MAIN ST BRADLEY BEACH, NJ 07720	33
SHREWSBURY, NJ 07702	405	3	FREEHOLD, NJ 07728				55
J.J.P.P % DAVID J HARBER, 1161 BROAD STREET STE 11	2		DEPARTMENT OF TRANSPORTA	TION		718 MAIN ST LLC 708 MAIN ST	
SHREWSBURY, NJ 07/02	405	6	C/O COMMISSION OF TRANSP PO BOX 600	ORTATION		BRADLEY BEACH, NJ 07720	33
JCR ENTERPRISES % JOSEPH 525 OCEAN BLVD	I ROSELL		PÓ BOX 600 TRENTON, NJ 08625 PROPERTY OWNER	<u>BLOCK</u>	<u>LOT</u>	720 MAIN STREET LLC 708 MAIN ST	
APT 602 LONG BRANCH, NJ 07740	405	7			<u>L01</u>	BRADLEY BEACH, NJ 07720	33
	400	1	RAILROAD PROPERTY C/O NJ PENN STATION		_	RAILROAD PROPERTY C/O NJ TRANSIT	
CAMPBELL, LEEBERT M 1111 O8TH AVENUE ½			NEWARK, NJ 07101	96	2	PENN STATION NEWARK, NJ 07101	96
NEPTUNE, NJ 07753	405	8	BERGEY BRADLEY BEACH LLC 2 SYLVAN WAY — SUITE #304	C/O PROGRE		ALSO TO BE NOTIFIED:	
1111 8 <sup>TH</sup> LLC 700 EMORY STREET			PARSIPPANY, NJ 07054	20	18	CARI EVISION	
ASBURY PARK, NJ 07712	405	9	D ANGELO MICHAEL			CABLEVISION ATTN: LAND USE MATTERS 1501 EIGHTEENTH AVENUE	
MATARAZZO, ANTHONY JR			812 MAIN ST BRADLEY BEACH, NJ 07720	31	1	WALL, NJ 07719	
206 WAVERLY AVENUE NEPTUNE, NJ 07753	405	10	UVA ON MAIN LLC ETAL			JERSEY CENTRAL POWER & LIGHT ATTN: LAND USE MATTERS	
WEST, HOWARD L. & WILHELI	MINA L.		800-808 MAIN STREET BRADLEY BEACH, NJ 07720	31	23	ATTN: LAND USE MATTERS 300 MADISON AVENUE MORRISTOWN, NJ 07960	
410 ATKINS AVENUE NEPTUNE, NJ 07753	405	11		31	23		
JOHNSON, RICHARD			SAGAR BHAKTI 810 MAIN ST	7.4	٥٢	VERIZON- NJ C/O WIRELINE ENGINEERING	
PO BOX 181 NEPTUNE, NJ 07753	405	12	BRADLEY BEACH, NJ 07720	31	25	C/O WIRELINE ENGINEERING 999 WEST MAIN ST, FLR 2 FREEHOLD, NJ 07728-2525	
	400	12	JCP&L C/O FE SERVICE TAX PO BOX 4747	DEPT			
ACCIANI, BRYAN 406 ATKINS AVENUE			OAKBROOK, IL 60522	32	12	N.J. NATURAL GAS CO. ATTN: RIGHT OF WAY DEPARTMENT	
NEPTUNE, NJ 07753	405	13	HESS RETIAL STORES LLC C/ 539 SOUTH MAIN STREET	O TAX DEPT		1450 WYCKOFF ROAD WALL, NJ 07719	
LAVARIN, WILLIE 404 ATKINS AVENUE			FINDLAY, OH 45840	32	9	NEW JERSEY AMERICAN WATER CO	
NEPTUNE, NJ 07753	405	14	BOROUGH OF BRADLEY BEACH	i		ATTN: DONNA SHORT GIS SUPERVISOR 1025 LAUREL OAK ROAD VOORHEES, NJ 08043	
RAMOS- VAZQUEZ, T & SAN	CHEZ, A & HERRERA, E		BERGEY BRADLEY BEACH LLC			VOORHEES, NJ 08043	
402 ATKINS AVE NEPTUNE, NJ 07753	405	15	901 MAIN STREET BRADLEY BEACH, NJ 07720	32	15	MONMOUTH COUNTY PLANNING BOARD	
JCR EXCHANGE, LLC % DAVI	J HARBER		BOROLIGH OF BRADLEY BEACH			HALL OF RECORD ANNEX PO BOX 1255	

BRADLEY WEST APARTMENTS, LLC





USGS MAP 4" - 2000

1" = 20	<u>00</u> ,
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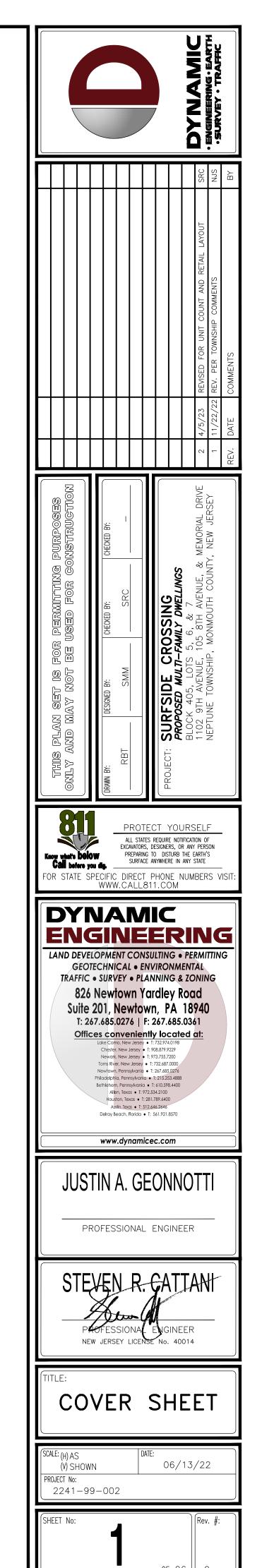
### LIST OF VARIANCES

VARIANCE FROM A RESIDENTIAL DENSITY OF 57.6 UNITS/ACRE WHERE A MAXIMUM OF 20 UNITS/ACRE IS REQUIRED.

#### LIST OF WAIVERS

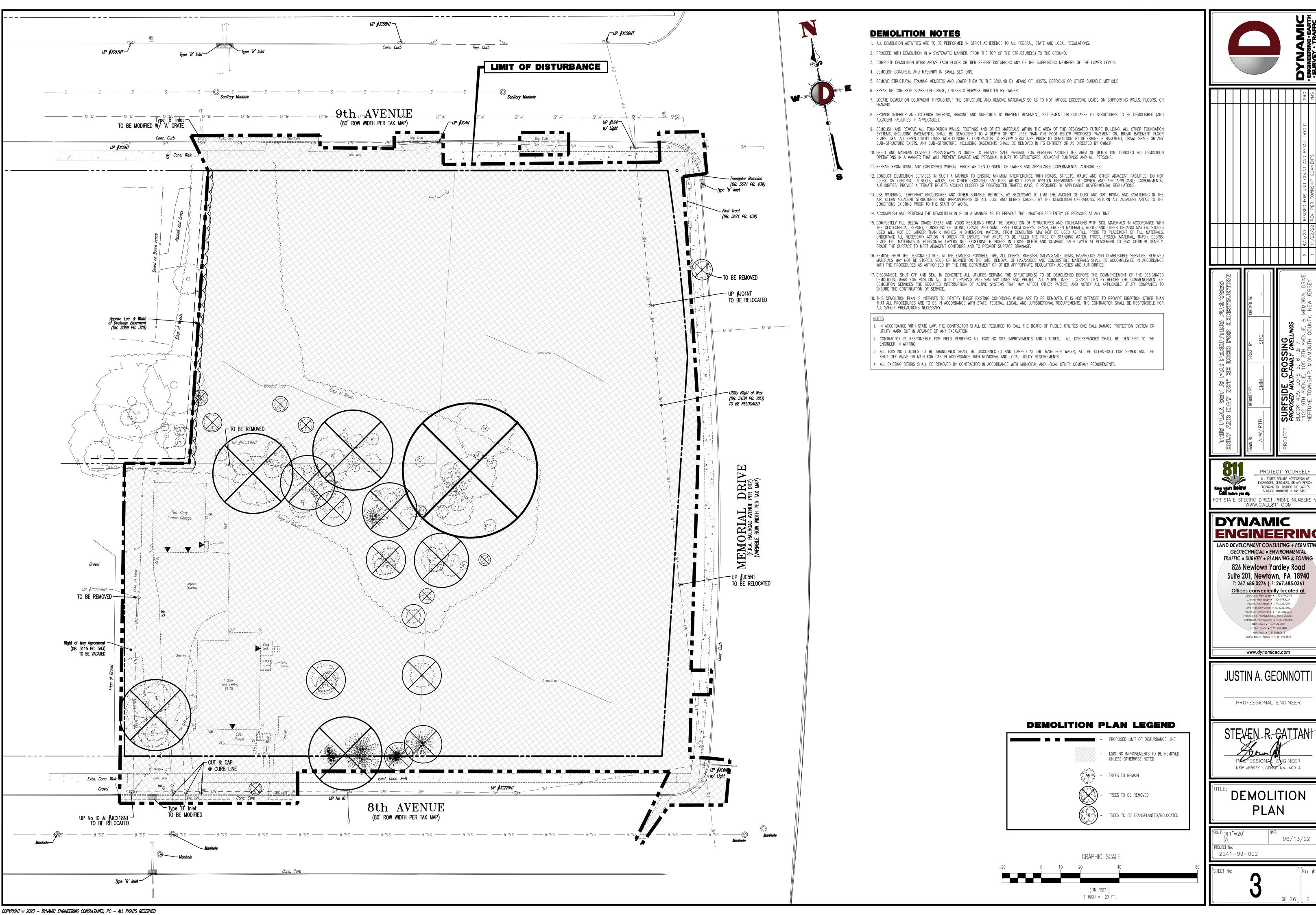
- WAIVER FROM (\$505.B.4) A PROPOSED DRIVEWAY WIDTH OF 24 FT WHERE A MAXIMUM DRIVEWAY WIDTH OF 22 FT IS REQUIRED. • WAIVER FROM (\$516.C.6) - A PROPOSED RESIDENTIAL BUILDING SETBACK FROM A PARKING LOT OF 0 FT WHERE A MINIMUM OF
- WAIVER FROM (\$516.C.6) A PROPOSED RESIDENTIAL BUILDING SETBACK FROM A PROPOSED DRIVEWAY OF 0 FT WHERE A

PREPARED BY DYNAMIC ENGINEERING CONSULTANTS, P.C. 826 NEWTOWN YARDLEY ROAD - SUITE 201 NEWTOWN, PA 18940 WWW.DYNAMICEC.COM





06/13/22



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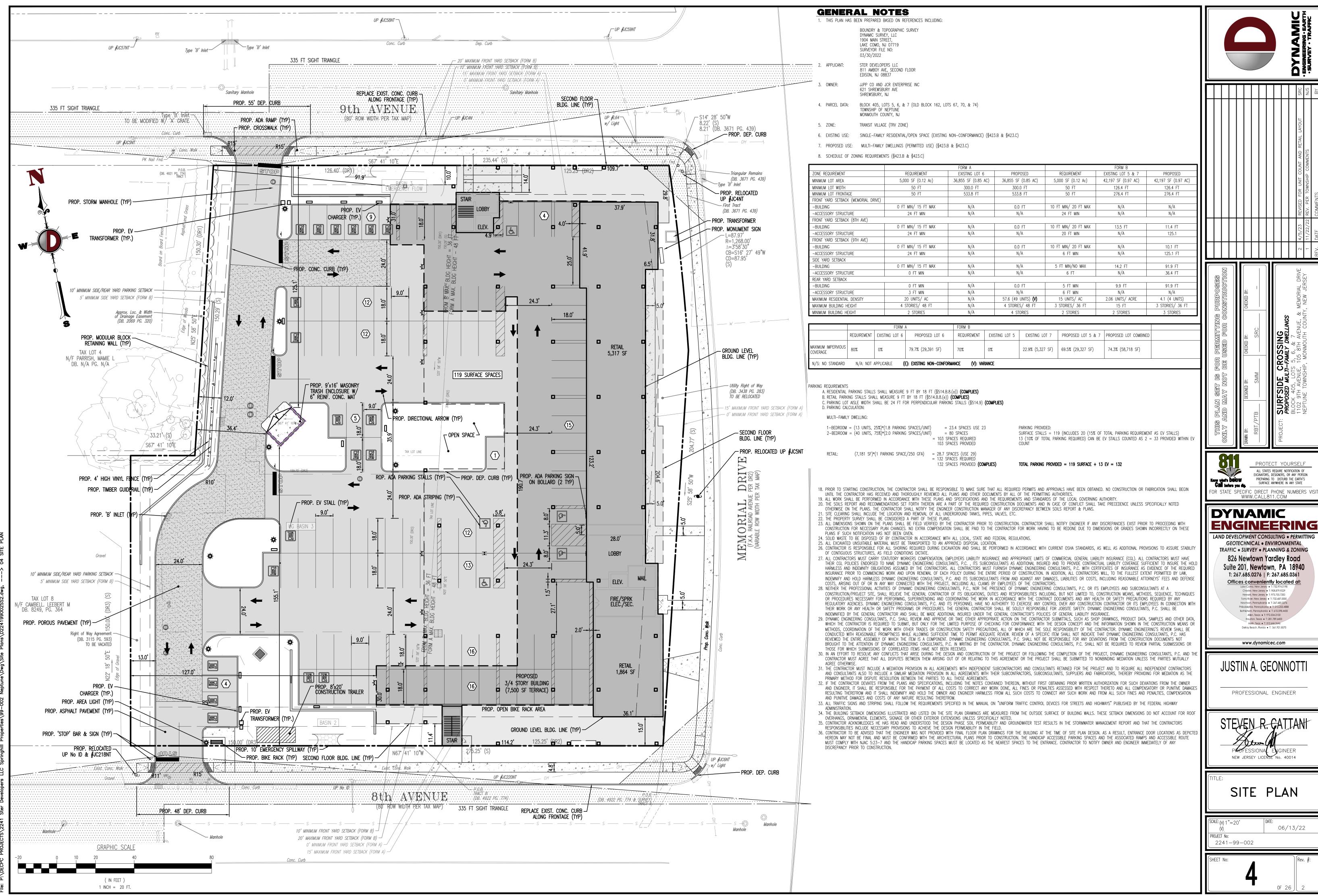
JUSTIN A. GEONNOTTI

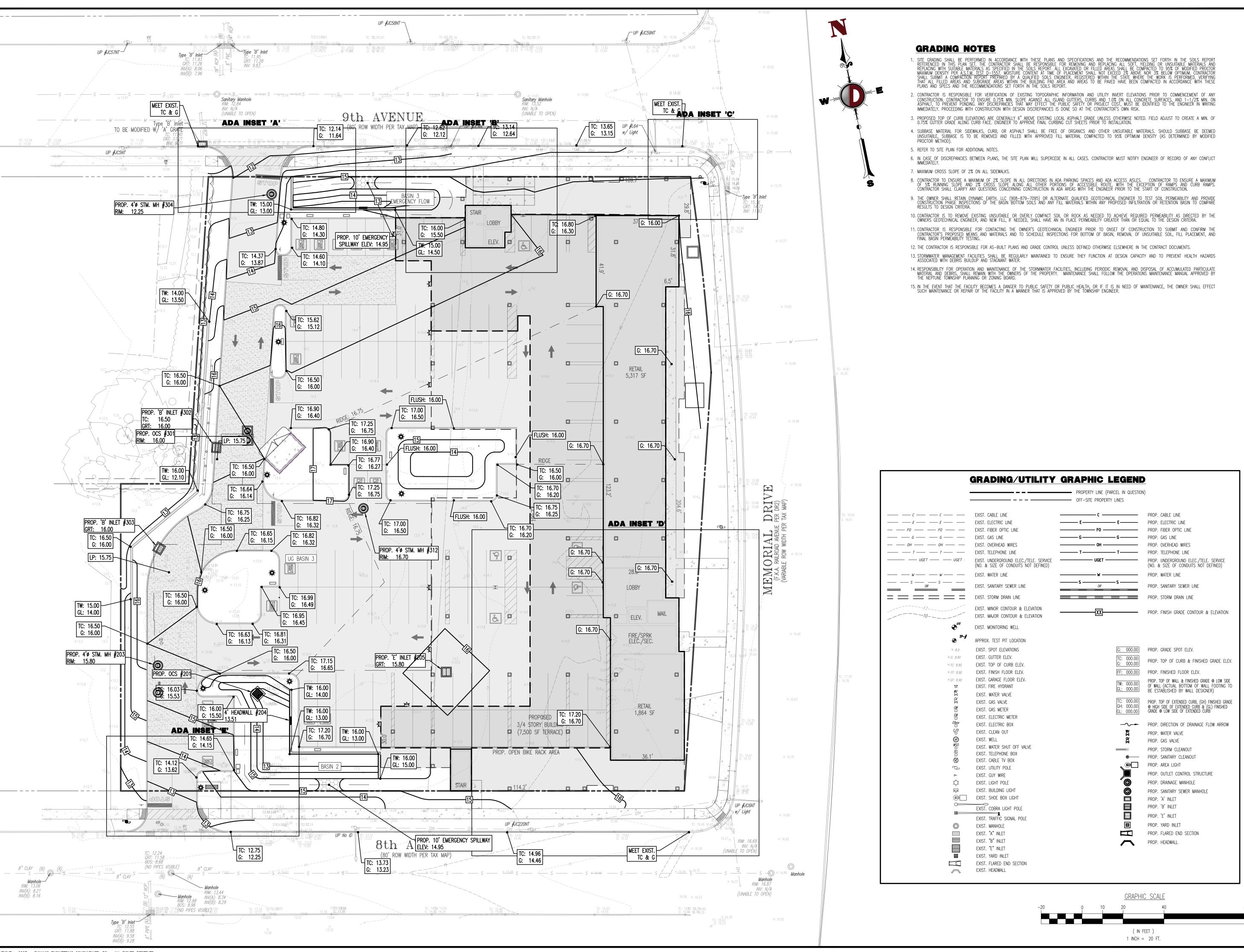
PROFESSIONAL ENGINEER



DEMOLITION PLAN

06/13/22





2	4/5/23	REVISED FOR UNIT COUNT AND RETAIL LAYOUT	SRC
Γ-	11/22/22	11/22/22 REV. PER TOWNSHIP COMMENTS	SUN
REV.	DATE	COMMENTS	ВҮ

ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE Know what's DeloW
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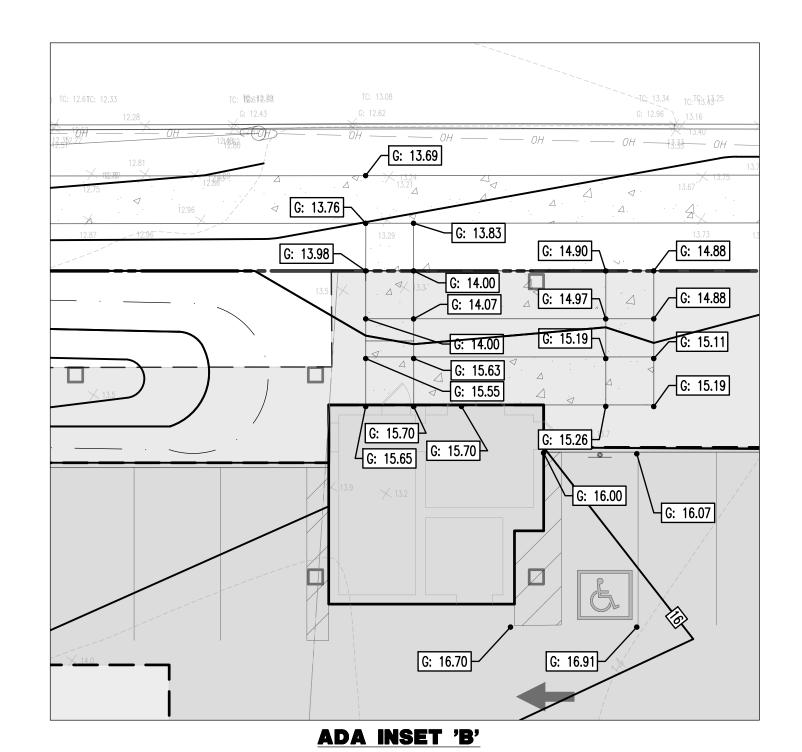
PROFESSIONAL ENGINEER

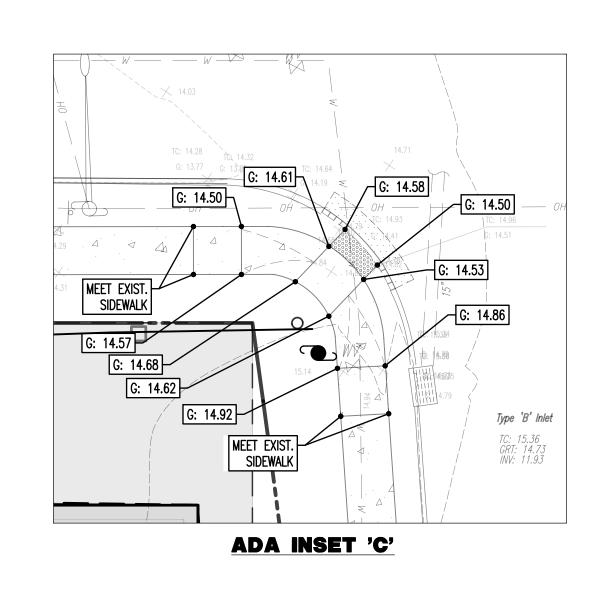


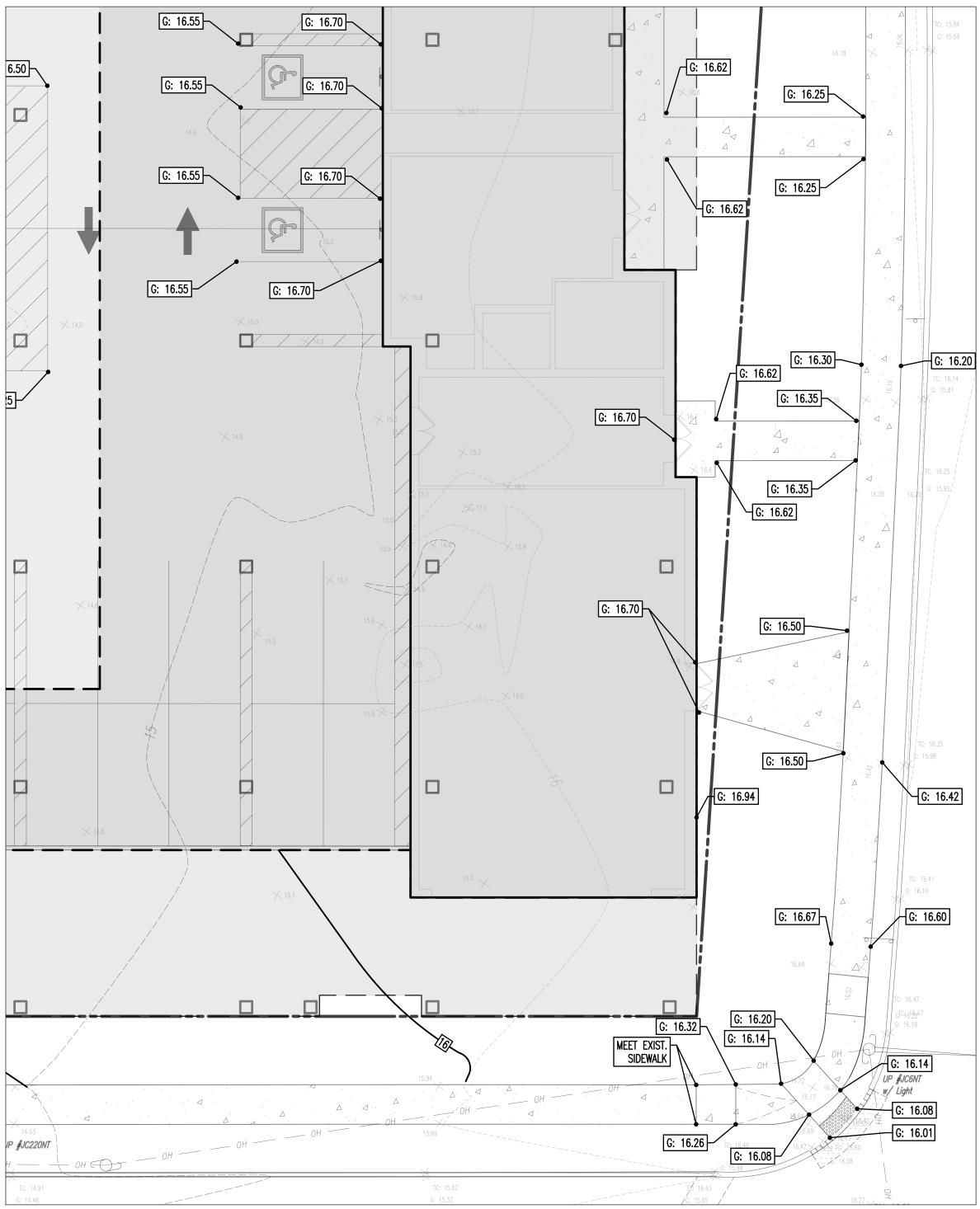
GRADING PLAN

SCALE: (H) 1"=20'	DATE:	06/13/22
PROJECT No: 2241-99-002		

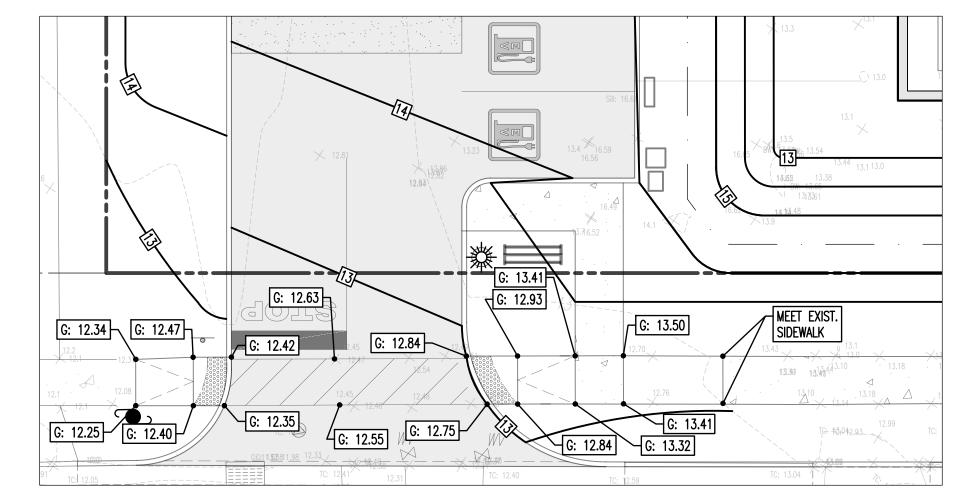
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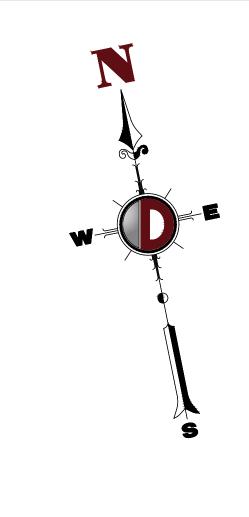




ADA INSET 'D'



ADA INSET 'F'



#### **ADA GENERAL NOTES:**

ALL SLOPES INDICATED ARE ACTUAL. CONTRACTOR TO REFER TO LATEST ADA GUIDELINES AND NJ BARRIER FREE SUBCODE (NJAC 5:23-7) FOR SLOPE LIMITS. AT THE TIME OF PLAN DESIGN, THE SLOPE LIMITS ARE AS FOLLOWS:

- SIDEWALKS/ ACCESSIBLE ROUTES

   RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)

   CROSS SLOPE: 1:48 (2.08%) MAX., 1.0% MIN. (1.5% MAX. FOR NEW CONSTRUCTION)
- INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
- CHANGE IN LEVELS: ¼" MAX. HEIGHT OR ½" MAX. HEIGHT WITH BEVELED EDGE BEVELED EDGE SLOPE OF 1:2 (50%) MAX. GAPS: ½" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF
- CURB RAMP

   SLOPE 1:12 (8.3%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)

   SIDE FLARE SLOPE: 1:10 (10%) MAX. (WHERE PEDS CROSS RAMP)
- BOTTOM LANDING: 48" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION) - TOP LANDING: 36" MIN. LENGTH; WIDTH TO MATCH CURB RAMP; 1:48 MAX. (2.08%) CROSS SLOPE (1.5% MAX. FOR NEW
- CONSTRUCTION) AND 1:20 (5%) RUNNING SLOPE (4.5% MAX FOR NEW CONSTRUCTION)
- ACCESSIBILITY PARKING STALLS

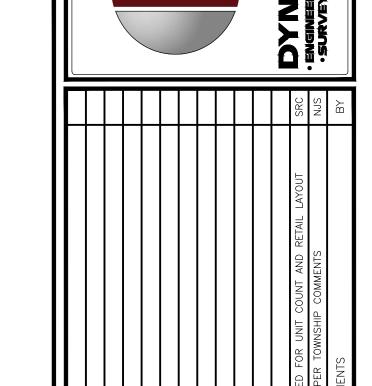
   SPACE AND ACCESS AISLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
- CROSSWALKS

   RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
- CROSS SLOPE: 1:48 (2.08%) MAX. (1.5% MAX. FOR NEW CONSTRUCTION)
   CHANGE IN LEVELS: ¼" MAX. HEIGHT OR ½" MAX. HEIGHT WITH BEVELED EDGE. BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
   GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF

( IN FEET ) 1 INCH = 10 FT.

- SLOPE: 1:12 (8.3%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION) - EXISTING RAMPS; SLOPE: 1:10 (10%) MAX. FOR RISE OF 6"; 1:8 (12.5%) MAX. FOR MAX. RISE OF 3"
- MIN. CLEAR WIDTH: 36"
- MIN. LANDING CLEAR LENGTH: 60" - MAX. CROSS SLOPE: 1:48 (2.08%) (1.5% MAX. FOR NEW CONSTRUCTION)

## **ADA GENERAL NOTES:**



	SED FOR	IAY NOT BE USED FOR CONSTRUCTION	
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$\vdash$	CHECKED BY:	CHECKED BY:	
	SRC	I	
	UNION		
′ ₹	POSED MULTI-FAMILY DWELLINGS	Si	
. •	5, & 7	K 405, LOTS 5, 6, & 7	
	8TH AVENUE	, & MEMORIAL DRIVE	2
$\supset$	NMOUTH COL	UNE IOWNSHIP, MONMOUIH COUNIY, NEW JERSEY	1
			REV.



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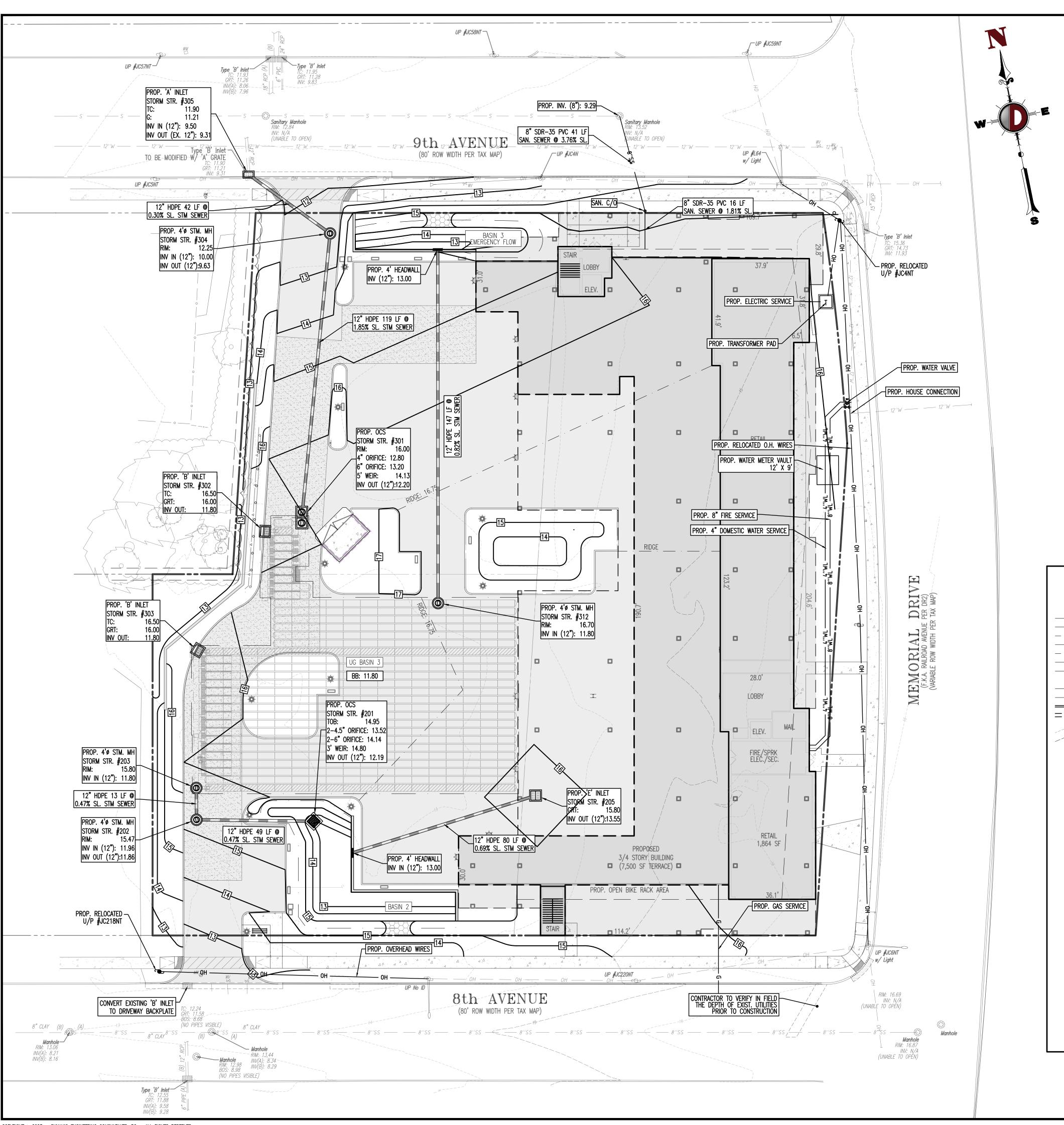
PROFESSIONAL ENGINEER

STEVEN R. CATTANT NEW JERSEY LICENSE No. 40014

ADA GRADING PLAN

	SCALE: (H) 1"=10" (V).	DATE: 06/13/22	
	PROJECT No:		
	2241-99-002		





#### **EXISTING UTILITY NOTES**

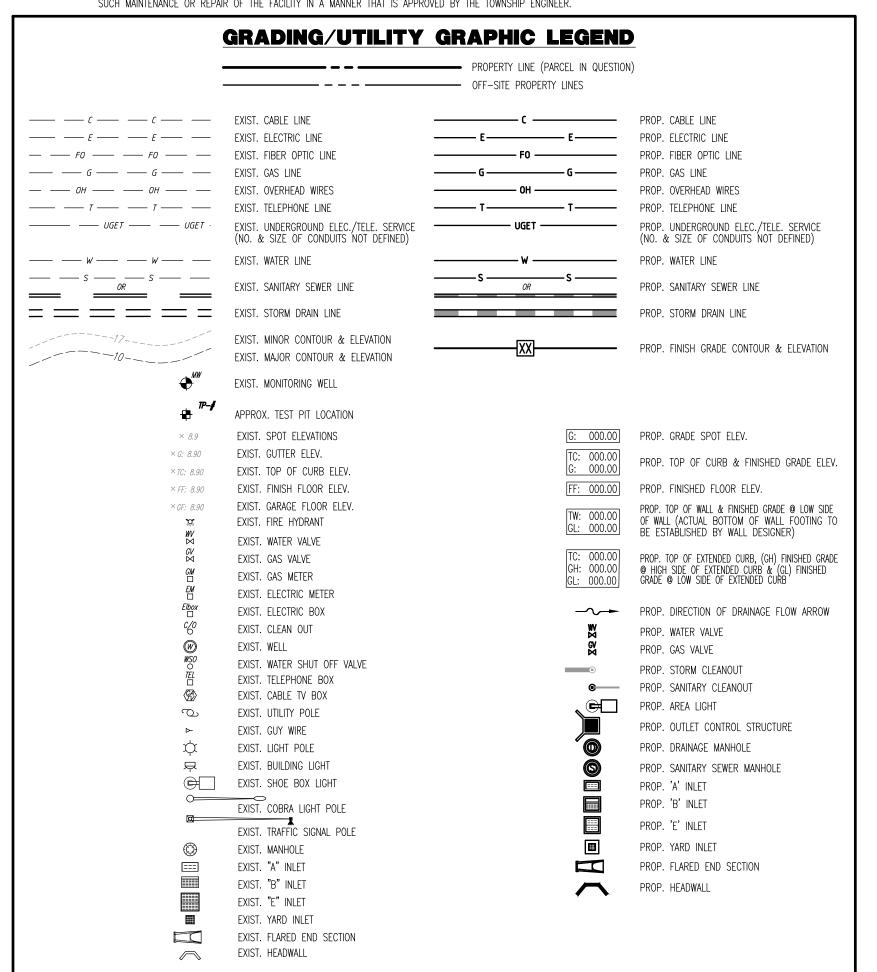
EXISTING WATER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING WATER SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING WATER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL WATER COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL WATER COMPANY PRIOR TO COMPLETION. IF THE EXISTING WATER SERVICE CAN NOT BE UTILIZED, THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL WATER COMPANY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW

EXISTING GAS SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING GAS SERVICE CONNECTION IF FEASIBLE. OTHERWISE REMOVE EXISTING GAS SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL GAS COMPANY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL GAS COMPANY PRIOR TO COMPLETION. ANY NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

SANITARY SEWER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SERVICE CONNECTION IF OF ADEQUATE SIZE AND INTEGRITY AND ACCEPTABLE TO LOCAL SEWER AUTHORITY. OTHERWISE CONTRACTOR TO REMOVE EXISTING SEWER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL SEWER AUTHORITY REQUIREMENTS. TERMINATION AT THE MAIN MUST BE APPROVED BY THE LOCAL SEWER AUTHORITY PRIOR TO COMPLETION. IF EXISTING SEWER SERVICE CAN NOT BE UTILIZED THEN THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL SEWER AUTHORITY. CONTRACTOR SHALL OBTAIN ALL REQUIRED STREET OPENING PERMITS FOR REMOVAL OF EXISTING SERVICE AND INSTALLATION OF NEW SERVICE.

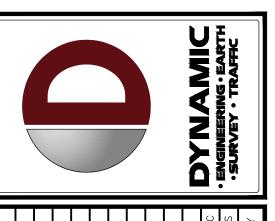
#### **UTILITY NOTES**

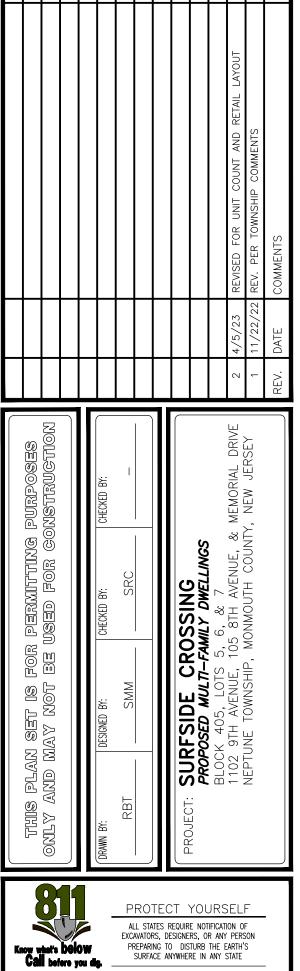
- 1. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER, CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
- 4. WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTORS PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
- 5. ALL WATER MAIN SHALL BE CEMENT-LINED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.
- 6. THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.
- 7. SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE SDR-35 PVC PIPE UNLESS OTHERWISE
- 8. ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT—LINED, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED
- 9. WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED. 10. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF THE EXISTING SEWER MAIN, STRUCTURES AND APPURTENANCES DURING CONNECTION.
- 11. LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER.
- 12. ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED W/ ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE DESIGNATED.
- 13. ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.
- 14. ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
- 15. MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS HE-III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MORTAR OR PREFORMED FLEXIBLE JOINT SEALANTS I ACCORDANCE WITH ASTM C 990 TO BE UTILIZED TO PROVIDE A SILT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS
- 16. HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SILT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F477. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS.
- 17. HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2736 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATERTIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
- 18. PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.
- 19. STORMWATER MANAGEMENT FACILITIES SHALL BE REGULARLY MAINTAINED TO ENSURE THEY FUNCTION AT DESIGN CAPACITY AND TO PREVENT HEALTH HAZARDS ASSOCIATED WITH DEBRIS BUILDUP AND STAGNANT WATER.
- 20. RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF THE STORMWATER FACILITIES, INCLUDING PERIODIC REMOVAL AND DISPOSAL OF ACCUMULATED PARTICULATE MATERIAL AND DEBRIS, SHALL REMAIN WITH THE OWNERS OF THE PROPERTY. MAINTENANCE SHALL FOLLOW THE OPERATIONS MAINTENANCE MANUAL APPROVED BY THE NEPTUNE TOWNSHIP PLANNING OR ZONING BOARD.
- 21. IN THE EVENT THAT THE FACILITY BECOMES A DANGER TO PUBLIC SAFETY OR PUBLIC HEALTH, OR IF IT IS IN NEED OF MAINTENANCE, THE OWNER SHALL EFFECT SUCH MAINTENANCE OR REPAIR OF THE FACILITY IN A MANNER THAT IS APPROVED BY THE TOWNSHIP ENGINEER.



<u>GRAPHIC SCALE</u>

( IN FEET ) 1 INCH = 20 FT.







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JUSTIN A. GEONNOTTI

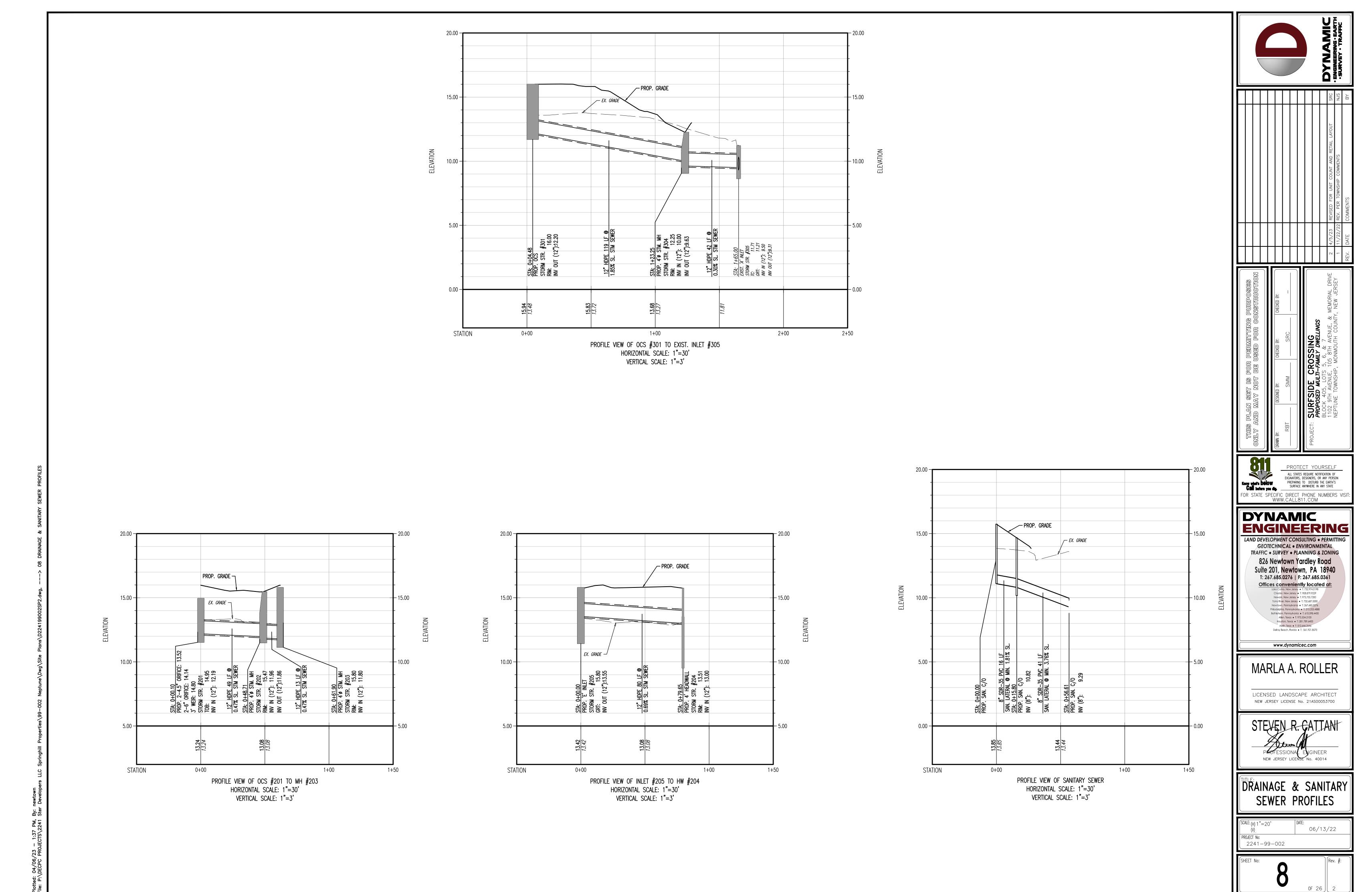
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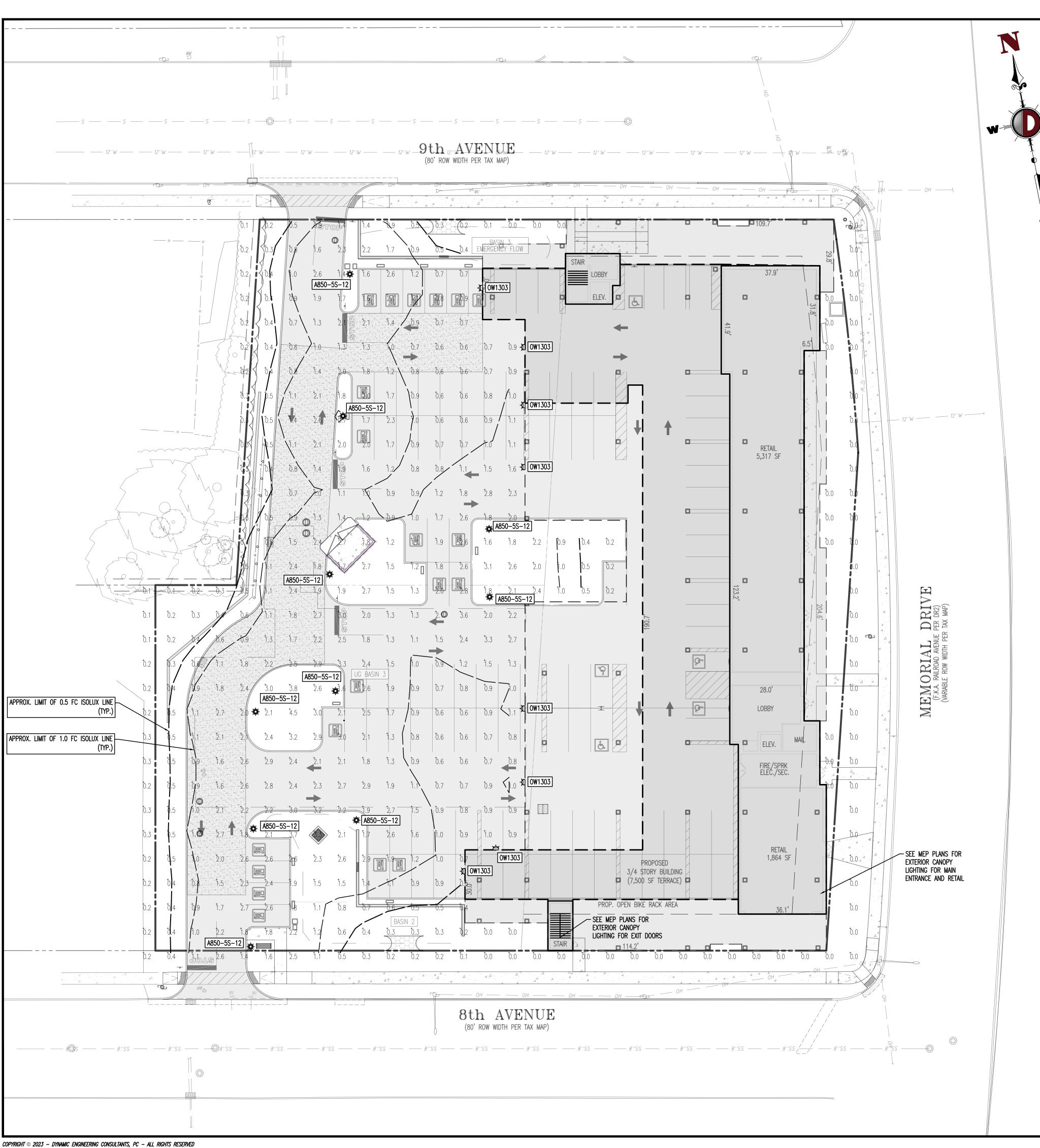


DRAINAGE & UTILITY PLAN

SCALE: (H) 1"=20" (V).	DATE:	06/13/22
PROJECT No:	•	
2241-99-002		

OF 26





#### THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY

1. THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINARIES MAY VARY

2. ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING

6. THIS PLAN IS PREPARED SPECIFICALLY TO ANALYZE THE LIGHTING LEVELS GENERATED BY THE PROPOSED ON-SITE LIGHTING ONLY. EXISTING LIGHT FIXTURES BEYOND

THE EXTENTS OF THIS DEVELOPMENT/PROPERTY ARE NOT MODELED IN THIS DESIGN, AND MAY ALTER ACTUAL LIGHT LEVELS AT THE PROPERTY LINES.

A. LIGHTING SHALL BE PROVIDED BY FIXTURES WITH A MOUNTING HEIGHT NOT MORE THAN FOURTEEN (14) FEET OR THE HEIGHT OF THE BUILDING, WHICHEVER IS

B. MAXIMUM LIGHTING CONTROLS. THE RATIO OF AVERAGE ILLUMINATION, MEASURED IN FOOTCANDLES, TO MINIMUM ILLUMINATION, AS REQUIRED IN TABLE 5.3 (MINIMUM ILLUMINATION FOR SURFACE PARKING) SHALL NOT EXCEED 4 TO 1. THE MAXIMUM ILLUMINATION PROVIDED ON ANY SITE SHALL NOT EXCEED THE

LIGHTING LUMINAIRE SCHEDULE

ARRANGEMENT

SINGLE

SINGLE

DIRT DEPRECIATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS. UNLESS OTHERWISE STATED, ALL RESULTS ARE MAINTAINED VALUES, UTILIZING ACCEPTED LIGHT LOSS FACTORS (LLF).

MINIMUM AVG./MIN.

THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE,

DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.

LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.

4. ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.

LESS, MEASURED FROM THE GROUND LEVEL TO THE CENTERLINE OF THE LIGHT SOURCE. (§412.11)

12.5

STATISTICAL AREA SUMMARY

MAXIMUM

DRIVE AISLE 1.53 3.6 0.5 3.06

3. CONDUITS SHALL BE INSTALLED A MINIMUM OF 2 FEET BEHIND GUIDERAIL POSTS.

5. REFER TO ARCHITECTURAL PLANS FOR SITE WIRING DIAGRAM.

LIGHTING REQUIREMENTS

SYMBOL QUANTITY LABEL WATTAGE MOUNTING HEIGHT

OW1303

A850-5S-12

AVERAGE

ISO CURVES ARE MAINTAINED AND SHOWN AT 0.5 AND 0.1 FC. (FM) - FLUSH MOUNT FOUNDATION (PED) - PEDESTAL FOUNDATION

MINIMUM ILLUMINATION BY MORE THAN A RATIO OF 10 TO 1. (\$511.G.2)

GENERAL NOTES

#### SEE SHEET 9 OF 26 FOR LIGHTING PLAN DETAILS

LIGHT LOSS MANUFACTURER DESCRIPTION

STERNBERG

OW1301-L35KLH

OLD TOWN SERIES

5, SYMMETRIC

DECORATIVE LIGHT, TYP

AVATAR

1.000

1.000

MAX./MIN.

						SF	Ź	В	
						REVISED FOR UNIT COUNT AND RETAIL LAYOUT	REV. PER TOWNSHIP COMMENTS	COMMENTS	
						4/5/23	11/22/22	DATE	
						2	1	REV.	
	Z(0					NE ,			

DESIGNED BY:   CHECKED BY:   CHECKED BY:	PROJECT: SURFSIDE CROSSING  PROPOSED MULTI-FAMILY DWELLINGS  BLOCK 405, LOTS 5, 6, & 7  1102 9TH AVENUE, 105 8TH AVENUE, & MEMORIAL DRIVE NEPTUNE TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY
DRAWN BY: AJW/RBT	PROJECT: SURF PROPOS BLOCK 1102 91 NEPTUNE



ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

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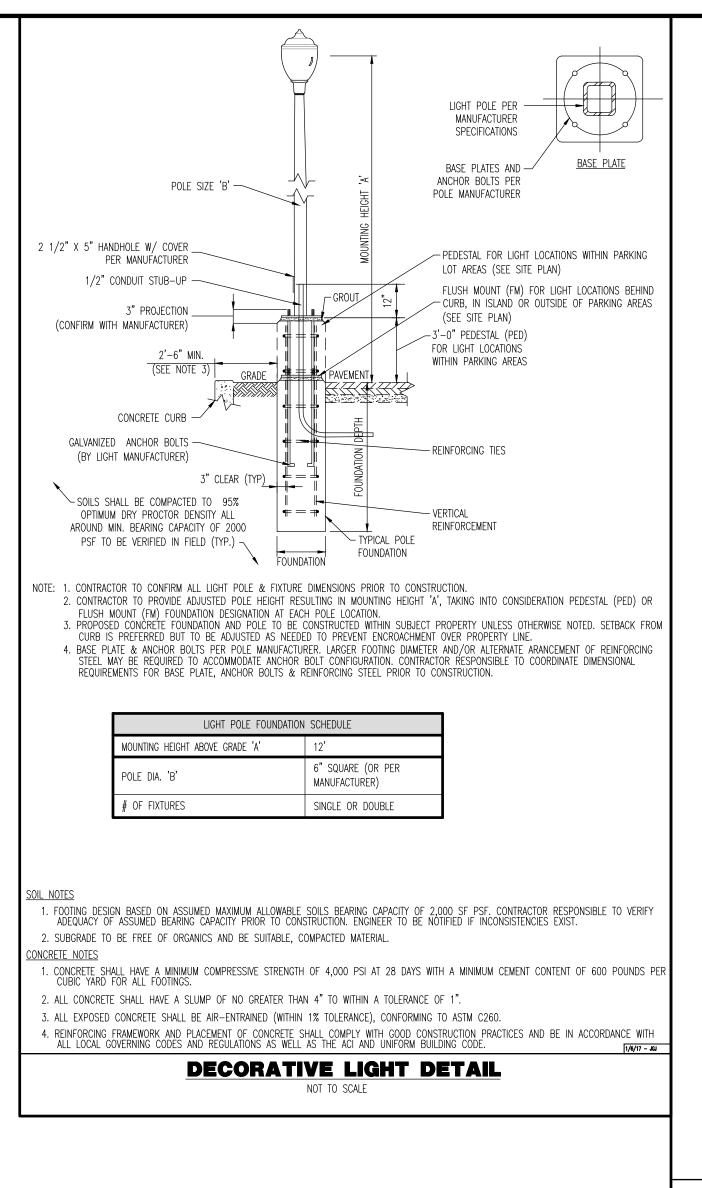
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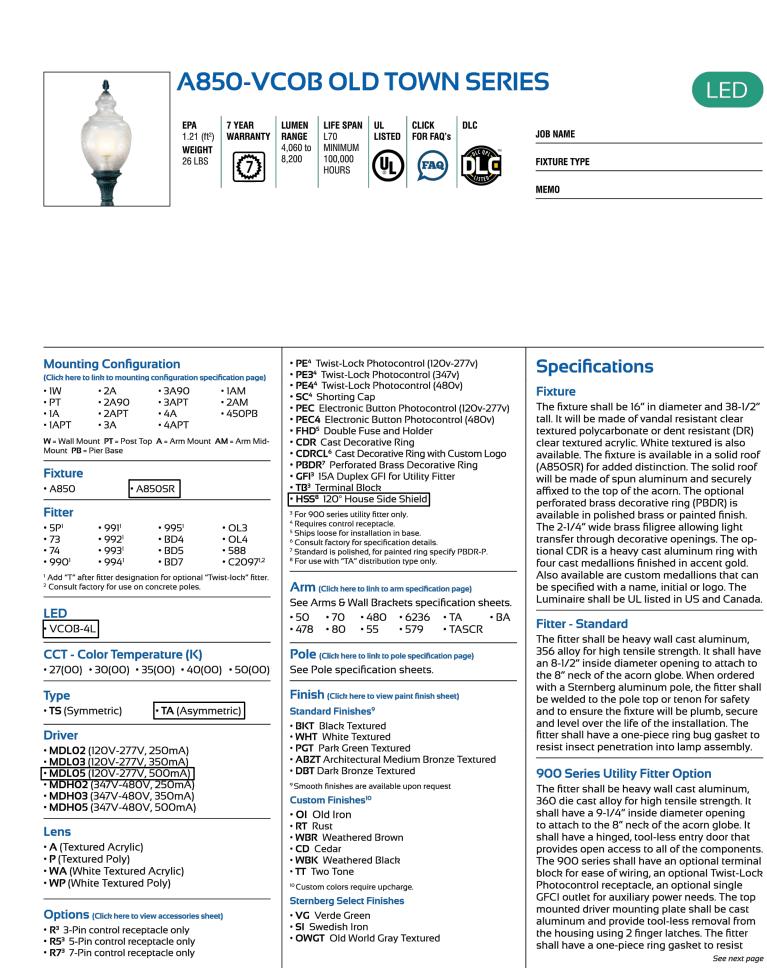
LIGHTING PLAN

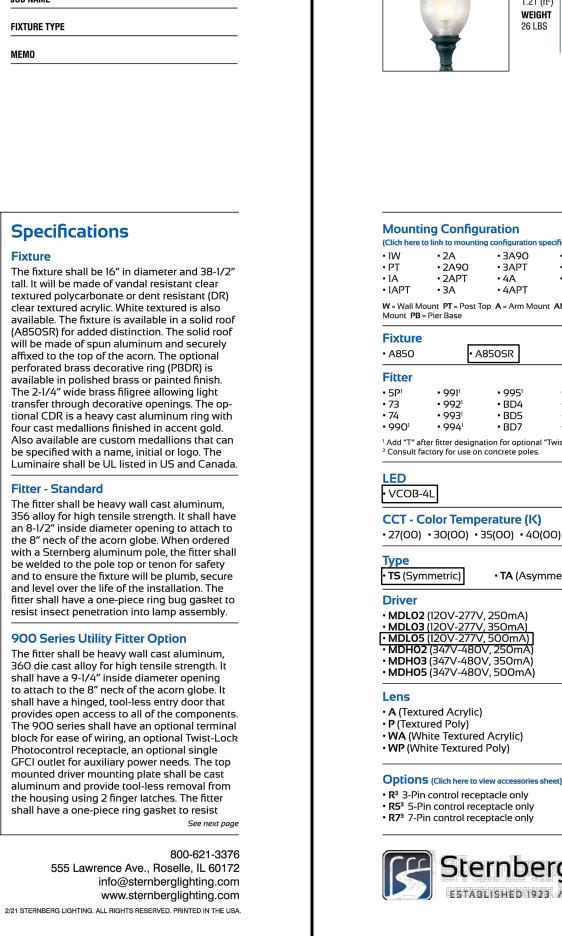
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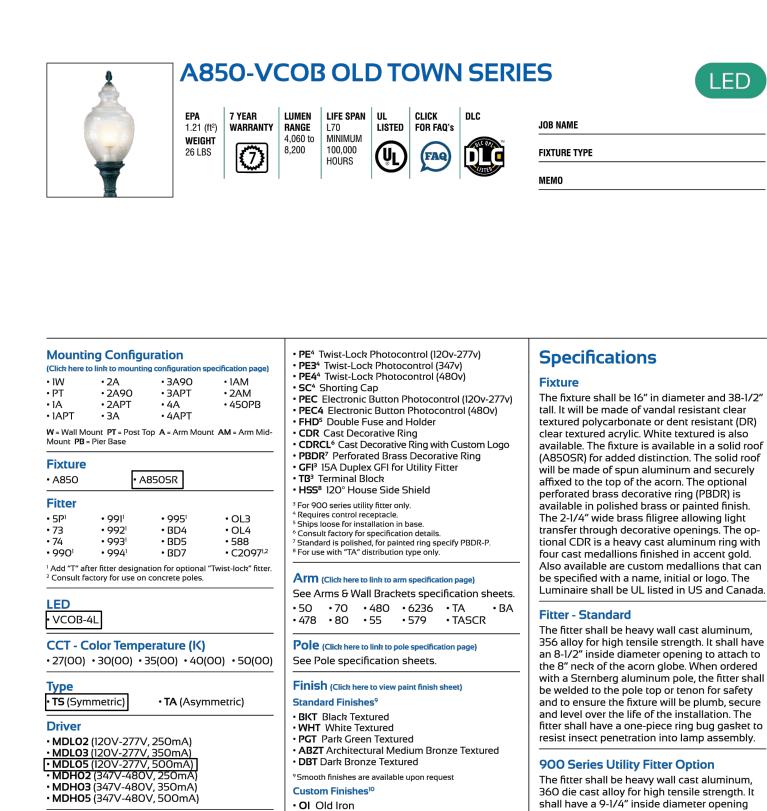
OF 26

( IN FEET ) 1 INCH = 20 FT.









WBR Weathered Brown

WBK Weathered Black

Sternberg Select Finishes

Custom colors require upcharge.

• OWGT Old World Gray Textured

AREA LIGHT A850-5S-12 DETAIL

CD Cedar

TT Two Tone

VG Verde Green

· SI Swedish Iron

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to attach to the 8" neck of the acorn globe. It

shall have a hinged, tool-less entry door that

Photocontrol receptacle, an optional single

mounted driver mounting plate shall be cast

the housing using 2 finger latches. The fitter

shall have a one-piece ring gasket to resist

GFCI outlet for auxiliary power needs. The top

aluminum and provide tool-less removal from

provides open access to all of the components.

The 900 series shall have an optional terminal

block for ease of wiring, an optional Twist-Lock

LED







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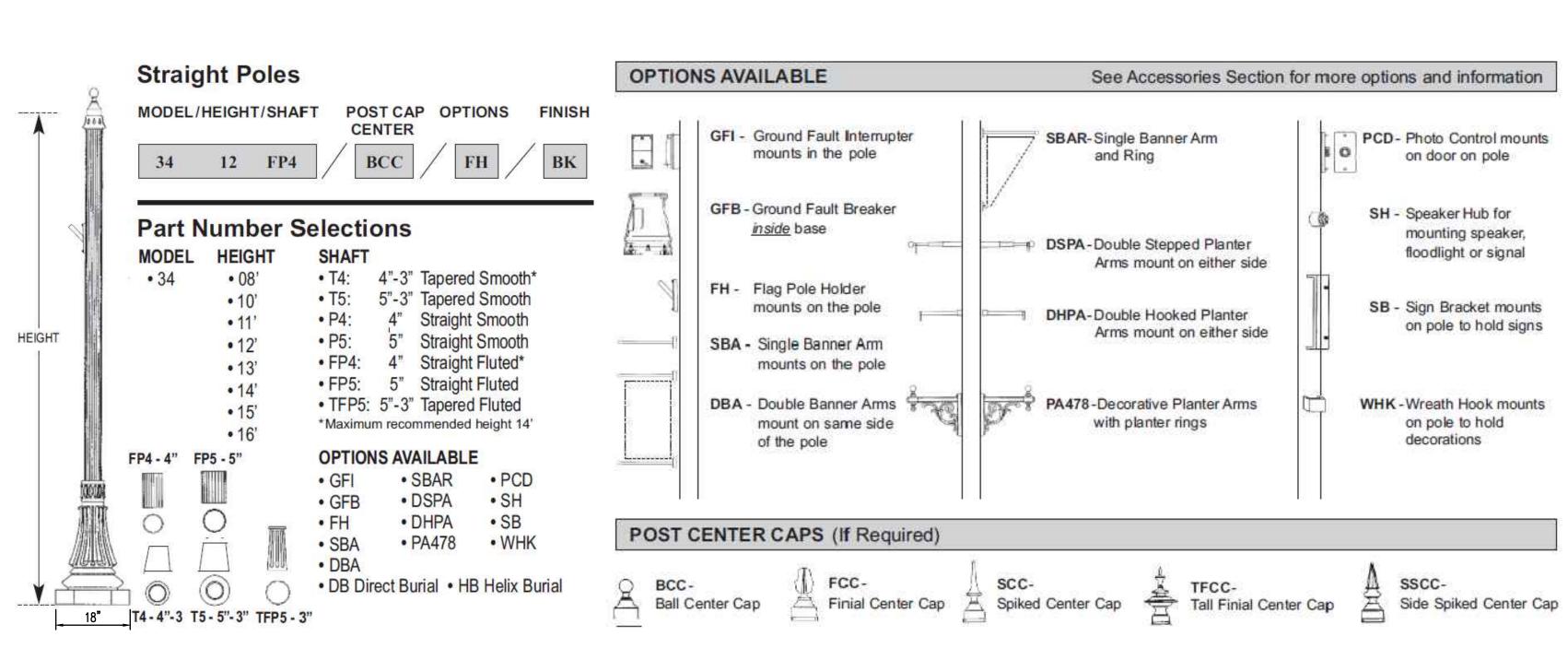
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LIGHTING **DETAILS** 

06/13/22 (V) SHOWN PROJECT No: 2241-99-002

AREA LIGHT SH850-3A-12 DETAIL

**SternbergLighting** 



LIGHT POLE DETAIL NOT TO SCALE



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Phacologhia, Pennsylvanie •

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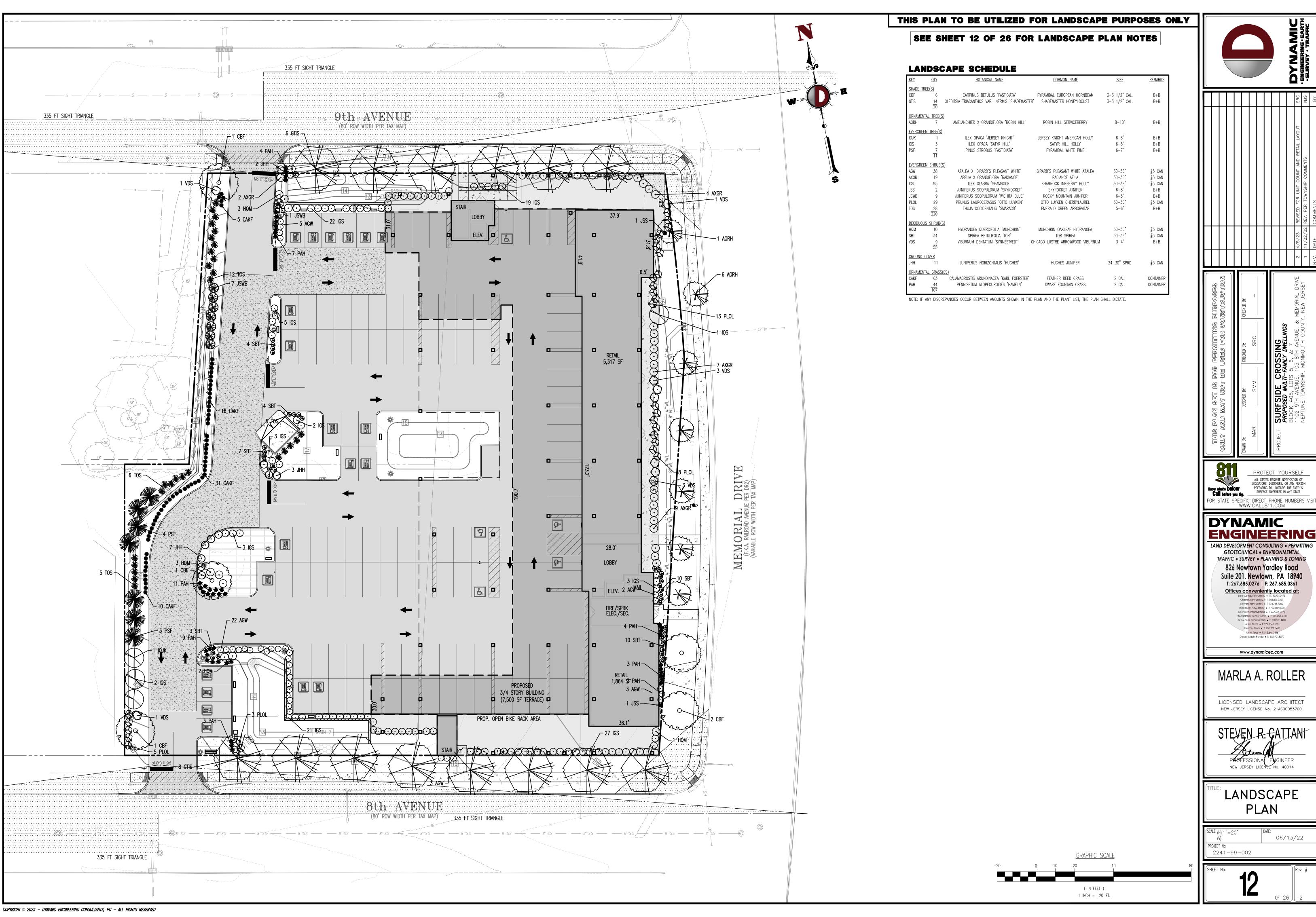
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 40014

LIGHTING DETAILS

SCALE: (H) 1"=20' DATE: 06/13/22

PROJECT No: 2241-99-002

Rev. #:



MARLA A. ROLLER

LANDSCAPE

06/13/22

1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK 1/3 FROM TOP ROOT BALL PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY 4 THOROUGHLY SOAK THE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS. 5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE SUBSOIL. AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING OTHERWISE, DO NOT PRUNE TREE AT PLANTING 1" VINYL GUYING — EXCEPT FOR SPECIFIC STRUCTURAL FOLD BURLAP AWAY FROM TOP OF ROOT BALL 2" DIA. HARDWOOD STAKES -⅔ TREE HT. 3 PER TREE - SET ROOT BALL FLUSH TO GRADE OR SEVERAL INCHES HIGHER IN POORLY DRAINING SOILS. 4" BUILT-UP FARTH SAUCER

# 4" BARK MULCH (DO NOT PLACE MULCH IN CONTACT WITH PREPARED SOIL FOR TREES TREE TRUNK) 1 PART PEAT MOSS BEFORE PLANTING ADD 3 TO 4" OF WELL-COMPOSTED 1 PART COW MANURE TELLITY LEAVES OR RECYCLED YARD WASTE TO BED AND TILL 3 PARTS TOPSOIL INTO TOP 6" OF PREPARED SOIL. UNDISTURBED ≠ 4−6" DEEPER THAN ROOT BALL SUBGRADE - CUT BANDS OF WIRE BASKET AND FOLD AWAY FROM DIG WIDE SHALLOW HOLE -TOP OF ROOT BALL WITH TAMPED SIDES SET ROOT BALL ON FIRM PAD IN BOTTOM OF HOLE

REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

## EVERGREEN TREE PLANTING DETAIL

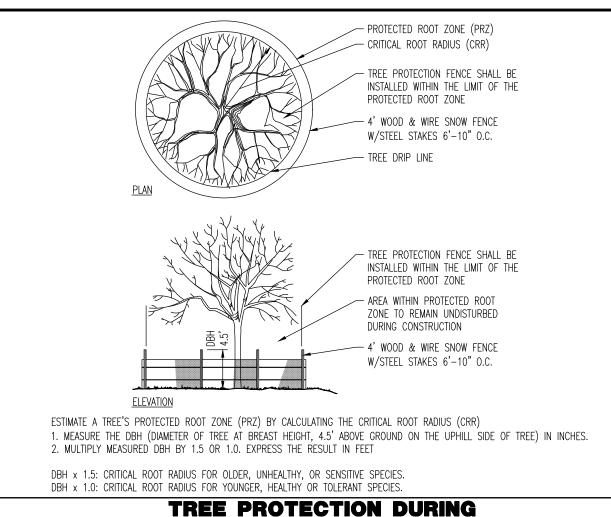
NOT TO SCALE

1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK 1/3 FROM TOP ROOT BALL PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY. 4. THOROUGHLY SOAK THE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS. 5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING: OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS. 1" VINYL GUYING-- FOLD BURLAP AWAY FROM TOP OF ROOT BALL - SET ROOT BALL FLUSH TO GRADE OR SEVERAL INCHES HIGHER IN POORLY DRAINING SOILS. 4" BUILT-UP EARTH SAUCER - 4" BARK MULCH (DO NOT PLACE MULCH IN CONTACT WITH 1 PART PEAT MOSS TREE TRUNK) 1 PART COW MANURF BEFORE PLANTING ADD 3 TO 4" OF WELL-COMPOSTED 3 PARTS TOPSOIL LEAVES OR RECYCLED YARD WASTE TO BED AND TILL UNDISTURBED 祀' INTO TOP 6" OF PREPARED SOIL. SUBGRADE 4-6" DEEPER THAN ROOT BALL DIG WIDE SHALLOW HOLE — CUT BANDS OF WIRE BASKET AND FOLD AWAY FROM WITH TAMPED SIDES TOP OF ROOT BALL

#### REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

NOT TO SCALE

SET ROOT BALL ON FIRM PAD IN BOTTOM OF HOLE



SITE CONSTRUCTION DETAIL

#### THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

#### PLANTING SPECIFICATIONS

A. THIS WORK SHALL CONSIST OF PERFORMING, CLEARING AND SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.

A. GENERAL - ALL MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) MANUAL OF ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) OR APPROVED EQUAL.

B. PLANTS – ALL PLANTS SHALL BE HEALTHY OR NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS.
C. TOPSOIL – LOAMY SILT, HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, PH RANGE BETWEEN 4.5 – 7, BE FREE OF DEBRIS, ROCKS LARGER THAN TWO

INCHES (2"). WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS. D. MULCH — FOUR (4") INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH.

3. FERTILIZER AND SOIL CONDITIONER — PLANTED AREAS

A. ORGANIC FERTILIZER - SHALL BE PROCESSED SEWER SLUDGE WITH MINIMAL CONTENT OF 1% NITROGEN AND 2% PHOSPHORIC ACID, EQUAL TO 'NITROHUMIS'. B. ORGANIC FERTILIZER AND SOIL CONDITIONER – SHALL BE 'GRO- POWER' AND ORGANIC BASE MATERIALS COMPRISED OF DECOMPOSED ANIMAL AND VEGETABLE MATTER AND COMPOSTED TO SUPPORT BACTERIAL CULTURES, CONTAINING NO POULTRY OR HUMAN WASTE. GUARANTEED ANALYSIS (5-3-1): NITROGEN 5%. PHOSPHATE 3%, POTASH 1%. 50% HUMUS AND 15% HUMIC ACIDS. 4. GENERAL WORK PROCEDURES
A. LANDSCAPE WORK SHALL COMMENCE AS SOON AS THOSE PORTIONS OF THE SITE ARE AVAILABLE. CONTRACTOR TO UTILIZE WORKMANLIKE STANDARDS IN

PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH DAY'S WORK. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STOCKPILED OR DISPOSED OF. ALL PAVED SURFACES SHALL BE SWEPT CLEAN AT THE END OF EACH DAY'S WORK. A. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

A. CONTRACTOR TO PROVIDE A 4" THICK TOPSOIL LAYER IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO PRODUCE A 4" UNSETTLED THICKNESS. TOPSOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE TOPSOIL UTILIZED IN ALL PLANTING AREAS. ADJUST pH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE 7 SOIL CONDITIONING:

A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. SPREAD EVENLY IN ALL PLANTING AREAS AND TILL (2 DIRECTIONS) INTO TOP 4" WITH THE FOLLOWING PER 1,000 SQ. FT.: 20 POUNDS 'GRO-POWER' 100 POUNDS AGRICULTURAL GYPSUM O POUNDS NITROFORM (COURSE) 38-0-0 BLUE CHIP

A. THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS.

USE COMPOSTED BARK, RECYCLED YARD WASTE OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.5. B. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES. C. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

PLANTING
POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE EXCAVATING
PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
A. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED
GRADE. EACH PLANT PIT SHALL BE BACK FILLED WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:

1 PART PEAT MOSS BY VOLUME
1 PART COW MANURE BY VOLUME
3 PARTS TOPSOIL BY VOLUME
3 PARTS TOPSOIL BY VOLUME

21 GRAM 'AGRIFORM' PLANTING TABLETS AS FOLLOWS:
2 TABLETS PER 1 GAL. PLANT
3 TABLETS PER 5 GAL. PLANT
4 TABLETS PER 15 GAL. PLANT

4 HABLETS PER 13 GAL. PLANT LARGER PLANTS (2) TWO TABLETS PER 1/2" DIAM. OF TRUNK CALIPER B. PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. FILL PREPARED SOIL AROUND BALL OF PLANT 1/2 WAY, AND INSERT PLANT TABLETS. COMPLETE BACK FILL AND WATER THOROUGHLY. C. ALL PLANTS SHALL BE SET SO THAT, THEY BEAR THE SAME RELATION TO THE REQUIRED GRADE AS THEY BORE TO THE NATURAL GRADE BEFORE BEING TRANSPLANTED.

TRANSPLANTED.

PREPARE RAISED EARTH BASIN AS WIDE AS PLANTING HOLE OF EACH TREE.

WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. F. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT. 9. GROUND COVER

ALL GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING GROUND COVER.

SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.

ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.

A. ALL AREAS WILL BE RECEIVED BY THE CONTRACTOR AT SUBSTANTIALLY PLUS/MINUS .1 FOOT OF FINISH GRADE.
B. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE, UNLESS OTHERWISE
DIRECTED BY LANDSCAPE ARCHITECT. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. A. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM ACCEPTANCE OF JOB. OWNER TO SECURE A MAINTENANCE BOND FROM THE

CONTRACTOR FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE COMMENCEMENT OF THE GUARANTEE PERIOD AND PASSES A FINAL INSPECTION BY THE OWNER OR OWNERS REPRESENTATIVE. LEANOR
LUPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS
RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE

OWNER'S AUTHORIZED REPRESENTATIVE.

B. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND CUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY WITH HERBICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.

C. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS. 13. MAINTENANCE (ALTERNATE BID) COST PER MONTH AFTER INITIAL 90-DAY MAINTENANCE PERIOD.

#### **PLANTING NOTES**

. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO 2. THE CUNITACTION STALL BE INCIDENTIFIED AT THE REPORT FOR TREES AND SHRUBS.

3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.

4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.

5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF A THE PLANT CALL THE BEGINNING OF THE FIRST OF AT LEAST ONE (1) YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

6. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED. DURING THIS PERIOD WILL BE REJECTED.

7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (REV. 2001) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.

8. ALL PLANTS SHALL BE PLANTED IN AMENDED TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.

9. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIAL SHALL BE SPRAYED WITH 'WILT-PRUIT' OR FOLIAL AS PER MANUFACTURER'S INSTRILLTIONS.

SHALL BE SPRAYED WITH 'WILT-PRUF' OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.

11. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.

12. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PIT. WILL BE ESTABLISHED, LOCATE PLANT IN THE CENTER OF THE PTI.

13. ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3

OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC.

MAIN LEADER OF TREES WILL NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED.

14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL

BE DONE WITH CLEAN, SHARP TOOLS.

15. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES AS A RESULT OF CONSTRUCTION OPERATIONS. ALL EXISTING TREES SHALL BE FERTILIZED WITH A REGULAR GARDEN FERTILIZER (5-10-5) UPON COMPLETION OF WORK. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK. CONTRACTOR TO ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH SHARP TOOLS AND FILLED AROUND WITH TOPSOIL COMPLETELY SATURATE THESE AREAS WITH WATER. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR IS TO PROTECT ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION OF THE ROOT MASS.

ALL EXISTING TREES TO REMAIN BY ERECTING TREE PROTECTION FENCE AT THE DRIP LINE. THIS WILL ENSURE NO COMPACTION OF THE ROOT MASS.

16. ALL PLANTING BEDS SHALL BE MULCHED WITH 4" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH.

17. NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.

18. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE AS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSTALLED, INSPECTED AND APPROVED BY THE MUNICIPAL LANDSCAPE ARCHITECT. THE MUNICIPAL ENGINEER AND LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OR SITE PLAN APPROVAL BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS:

PLANTS 3/15 TO 12/15 LAWN 3/15 TO 6/15 9/15 TO 12/1

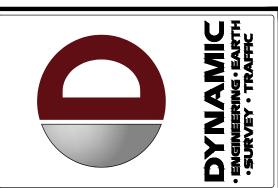
FURTHERMORE, THE FOLLOWING TREE VARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH DIGGING THESE TREES IN THIS SEASON.

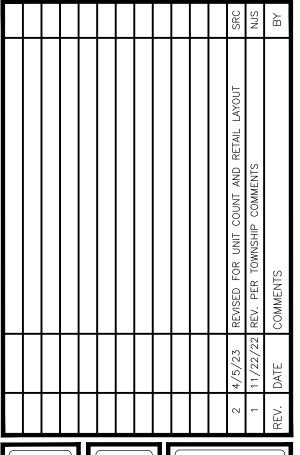
POPULUS VARIETIES
PRUNUS VARIETIES
PYRUS VARIETIES
QUERCUS VARIETIES
SALIX WEEPING VARIETIES
TILIA TOMENTOSA BETULA VARIETIES
CARPINUS VARIETIES
CRATAEGUS VARIETIES
KOELREUTERIA IQUIDAMBAR STYRACIFI IIA ZELKOVA VARIETIES IRIODENDRON TULIPIFERA PLATANUS ACERFOLIA

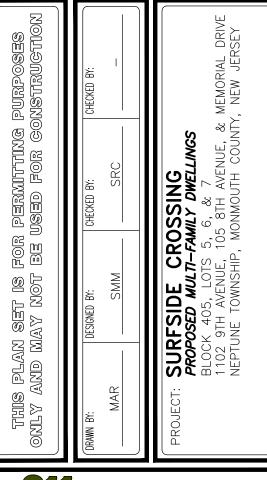
ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL BY THE MUNICIPAL ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON. 19. ALL DISTURBED AREAS TO BE TREATED WITH TOPSOIL SEED SOD STABILIZATION METHOD.

#### LANDSCAPING REQUIREMENTS

A. THE PERIMETER OF ALL PARKING LOTS SHALL BE SETBACK FROM ALL REAR AND SIDE LOT LINES BY A MINIMUM OF TEN (10) FEET (\$509.I.1.(a))
B. SIDE AND REAR YARDS SHALL BE LANDSCAPED WITH A COMBINATION OF EVERGREEN SHRUBS AND DECIDUOUS TREES TO FORM A SCREEN A MINIMUM OF SIX (6) FEET TALL AT THE TIME OF PLANTING. BUFFER TREE SPACING FOR FOLIAGE SIMILAR TO THE WHITE PINE SHALL BE FIVE FEET (5') ON CENTER AND C. FRONT YARDS SHALL BE LANDSCAPED WITH A COMBINATION OF AN ALTERNATING EVERGREEN AND DECIDUOUS HEDGE A MINIMUM OF THREE (3) FEET TALL AT THE TIME OF PLANTING, WITH DECIDUOUS SHADE TREES LOCATED A SPACING OF THIRTY (30) FEET ON-CENTER, SAID SPACING TO SUPPLEMENT AND ALTERNATE WITH REQUIRED STREET TREES. (§ (\$509.1.1.(a)) D. STREET TREES SHALL BE PLANTED AT A MINIMUM INTERVAL OF THIRTY-FIVE (35) FEET ALONG ALL STREETS. (\$523.B) (WAVER)









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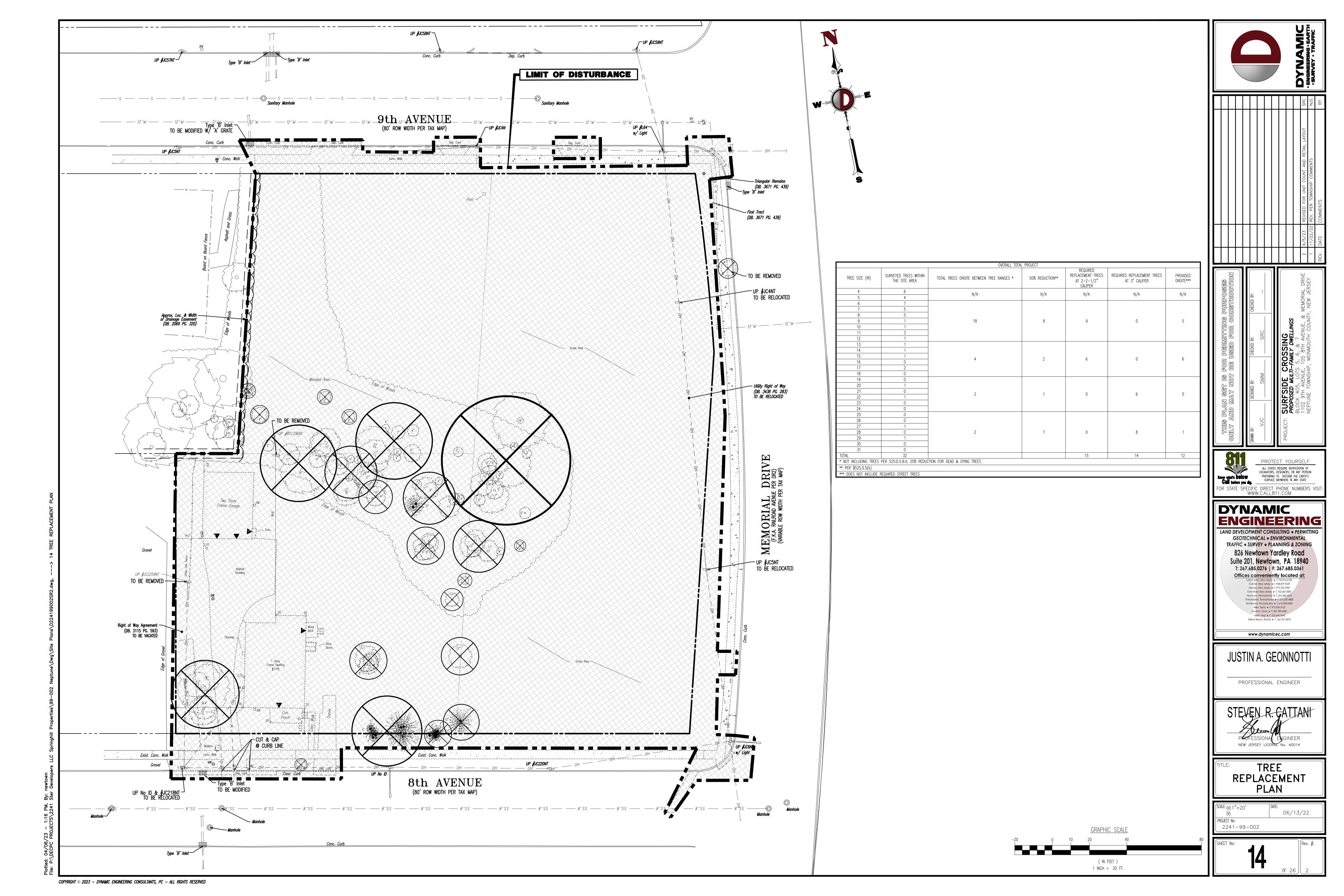
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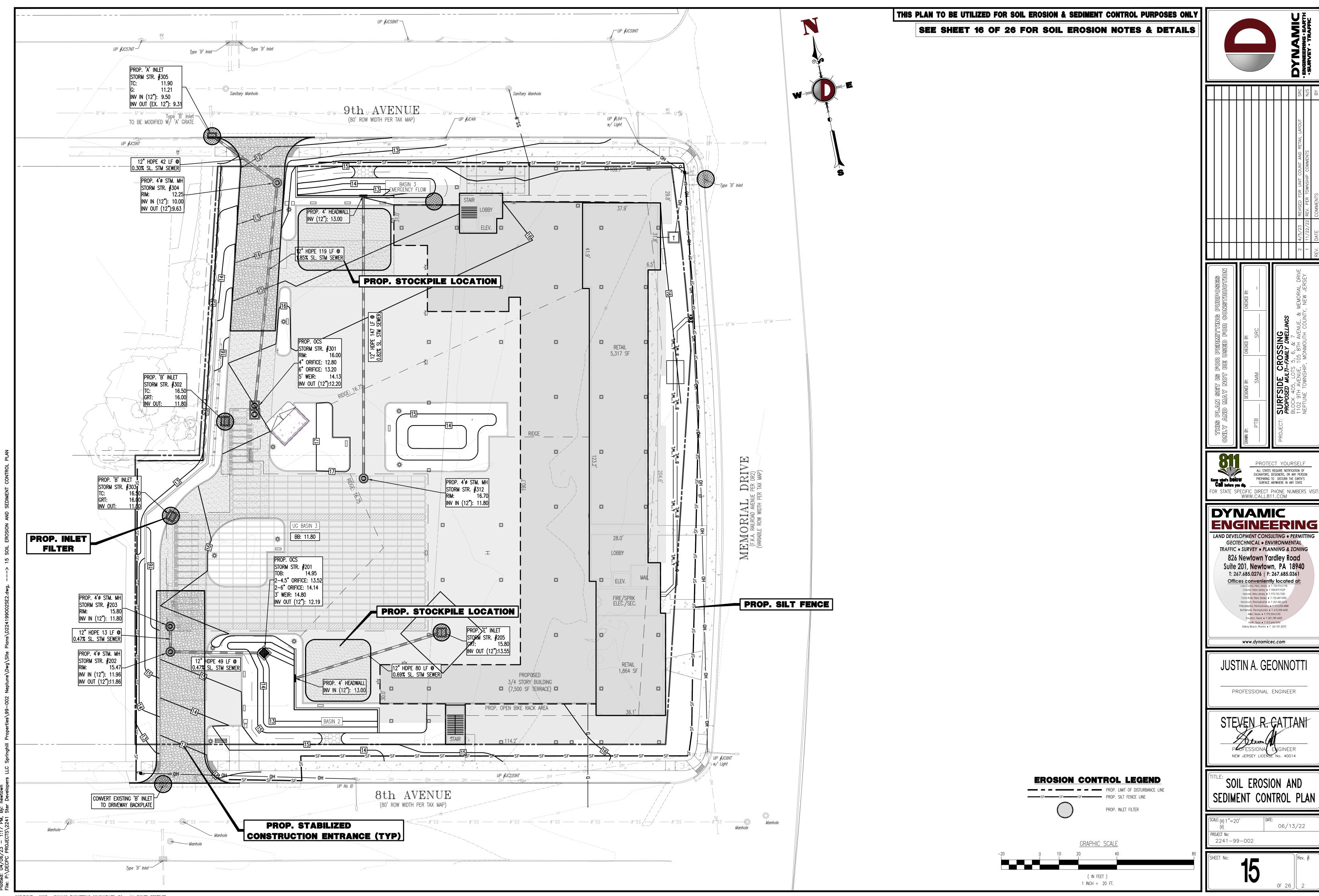
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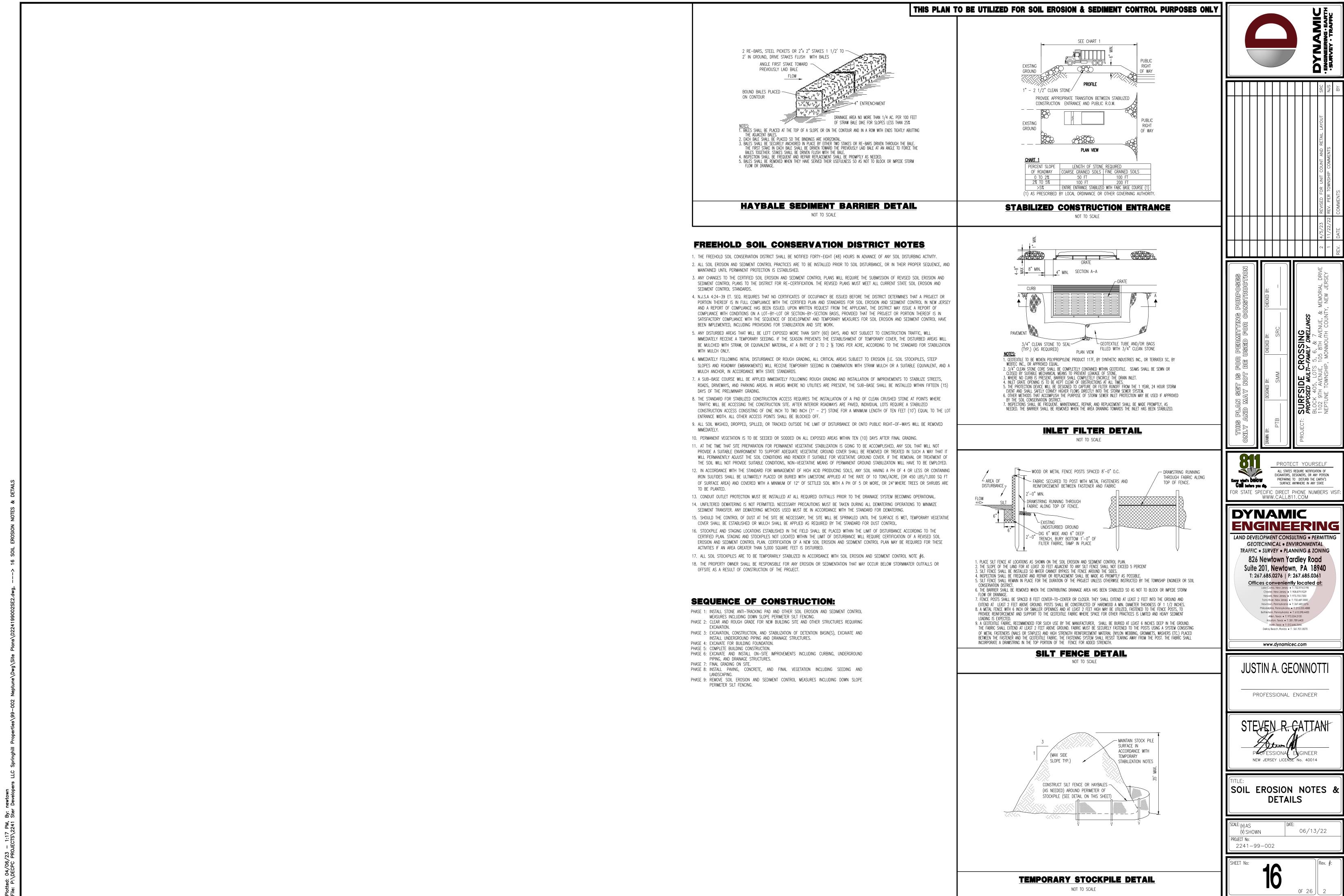


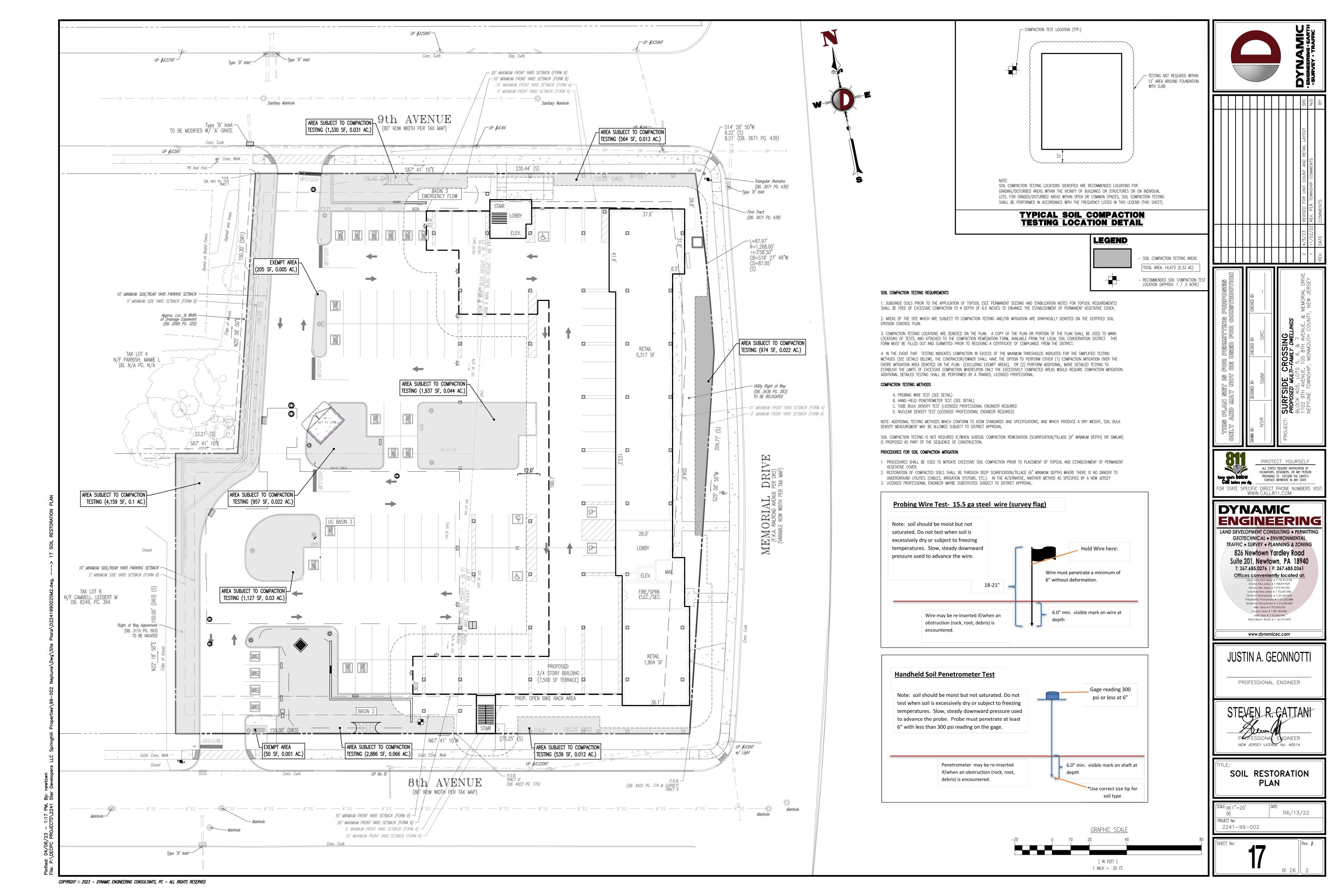
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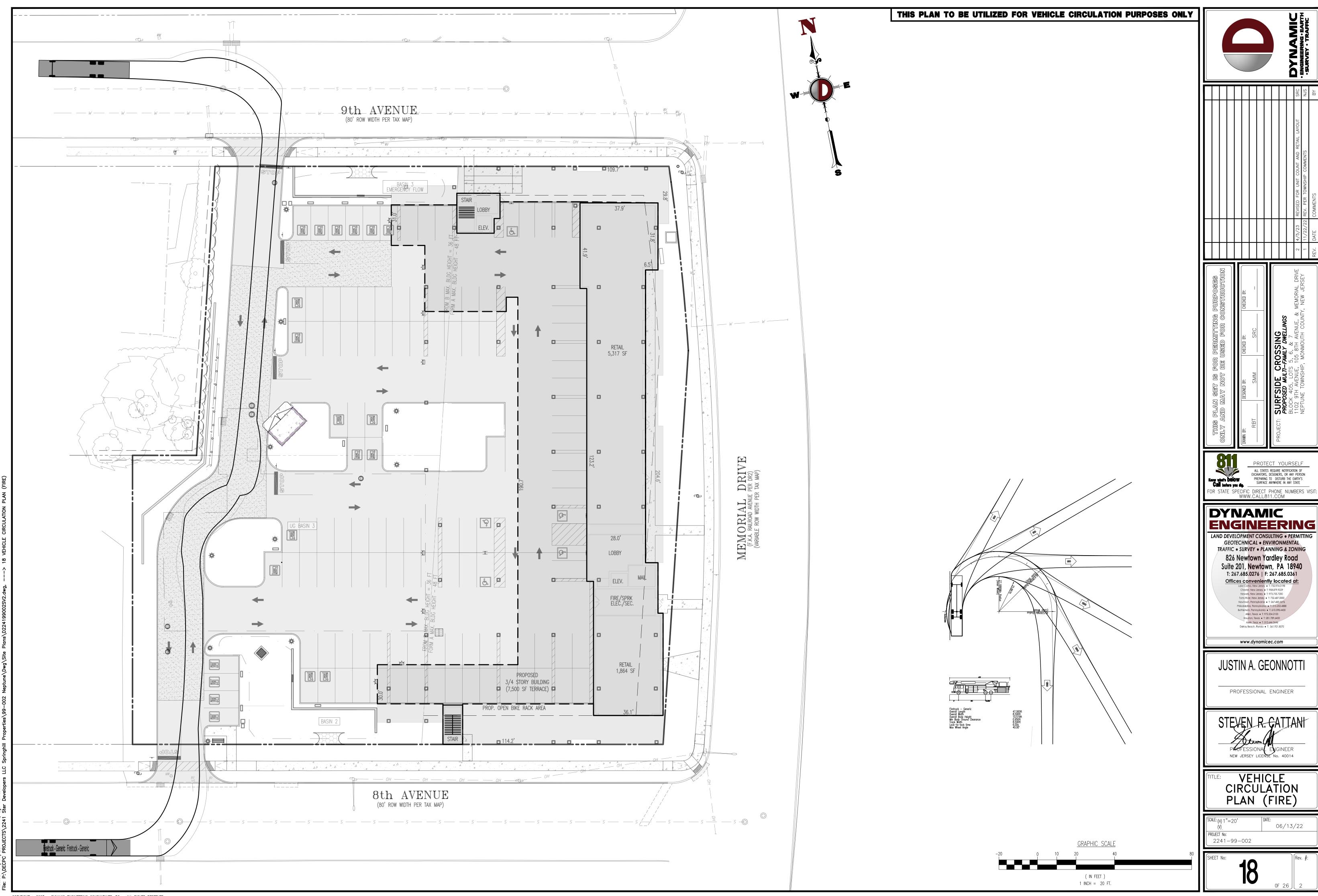
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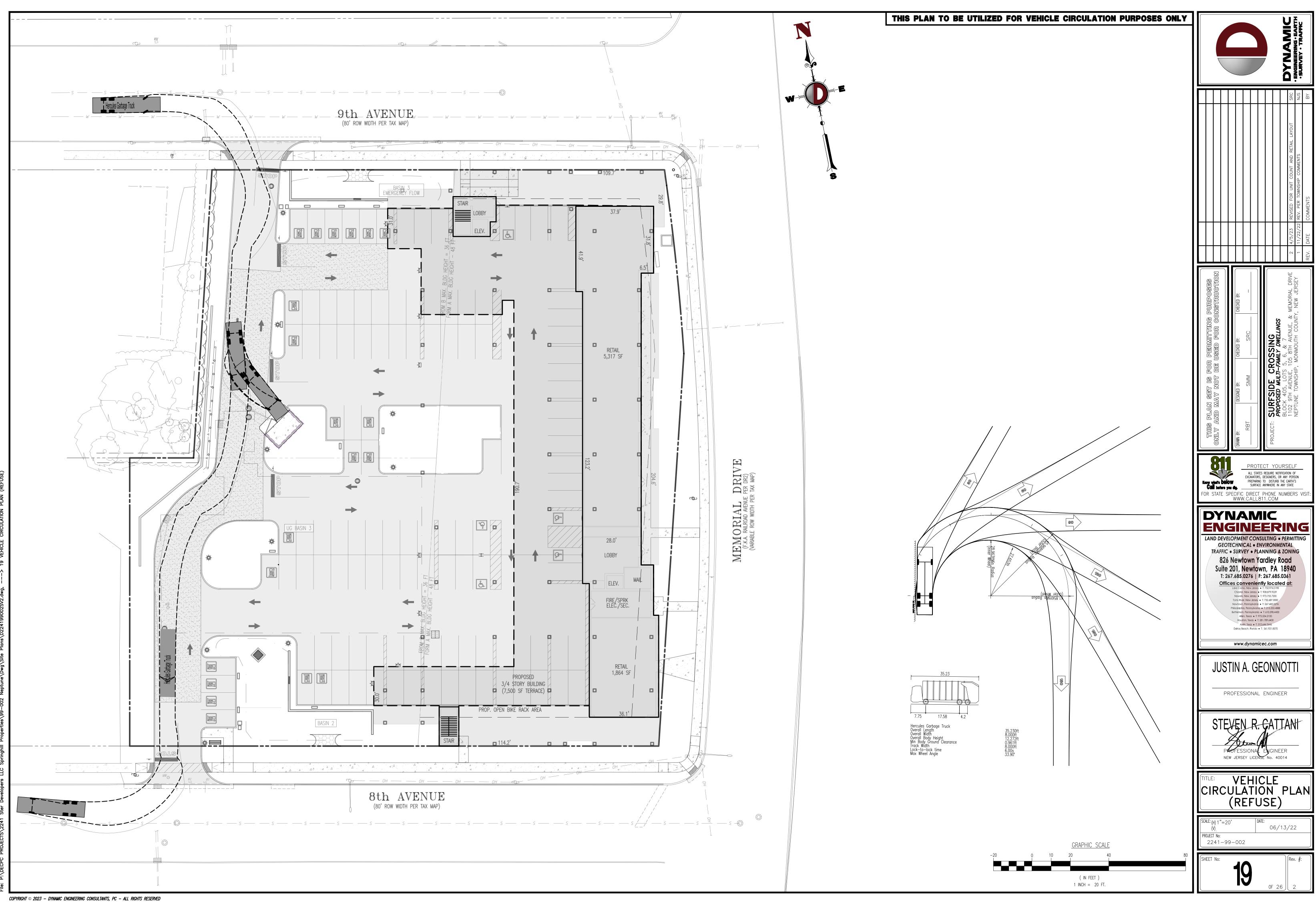






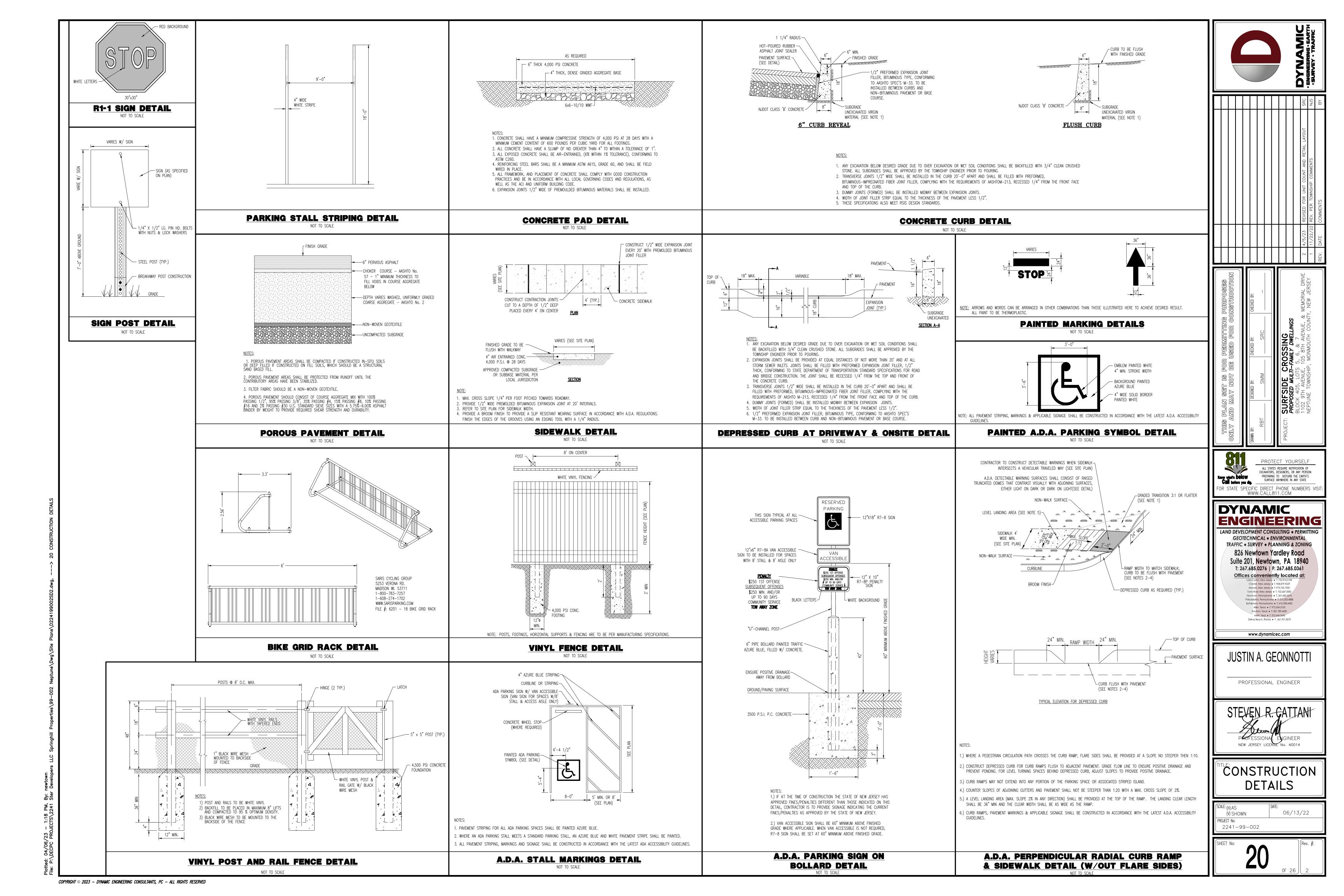


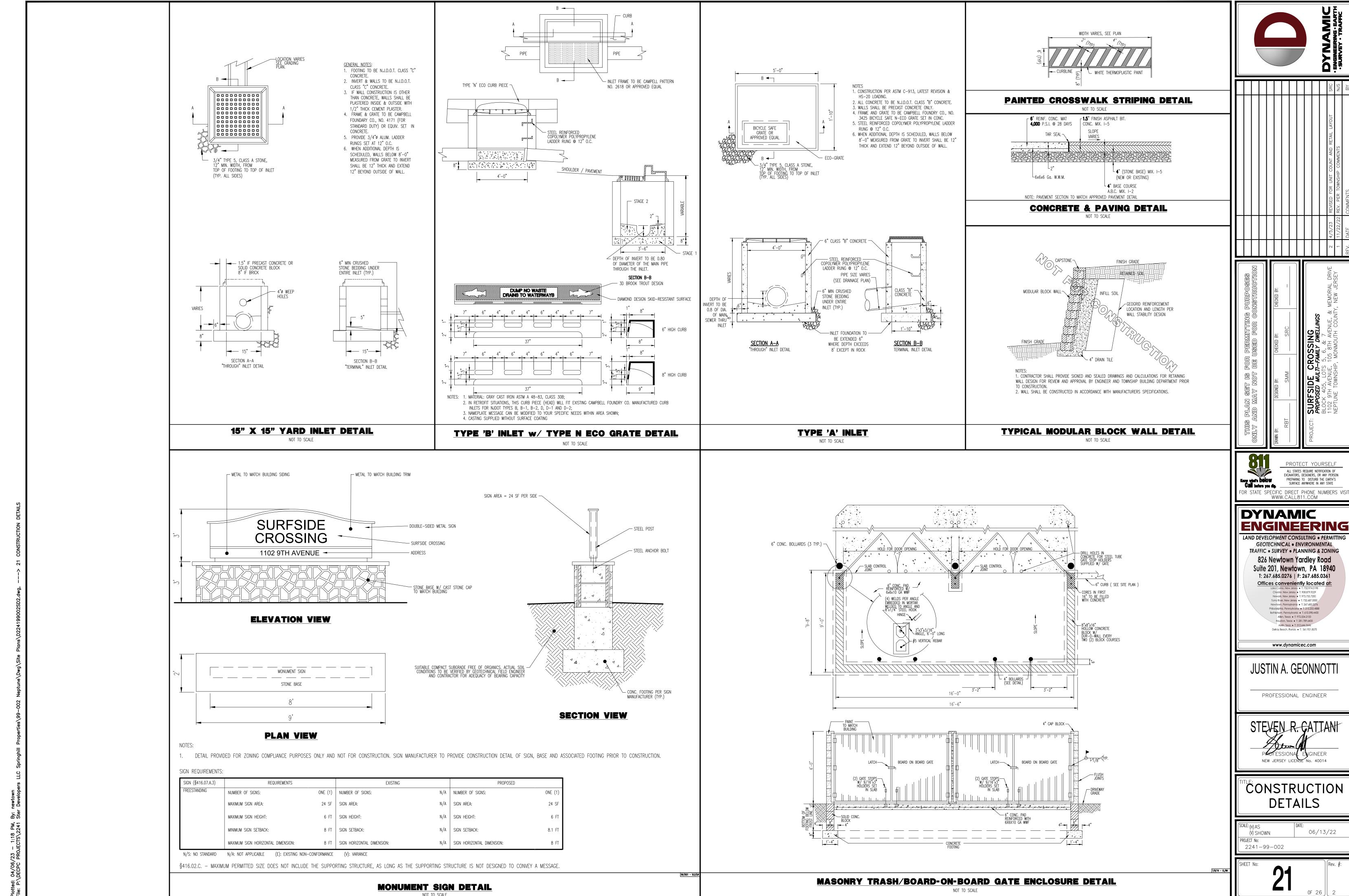


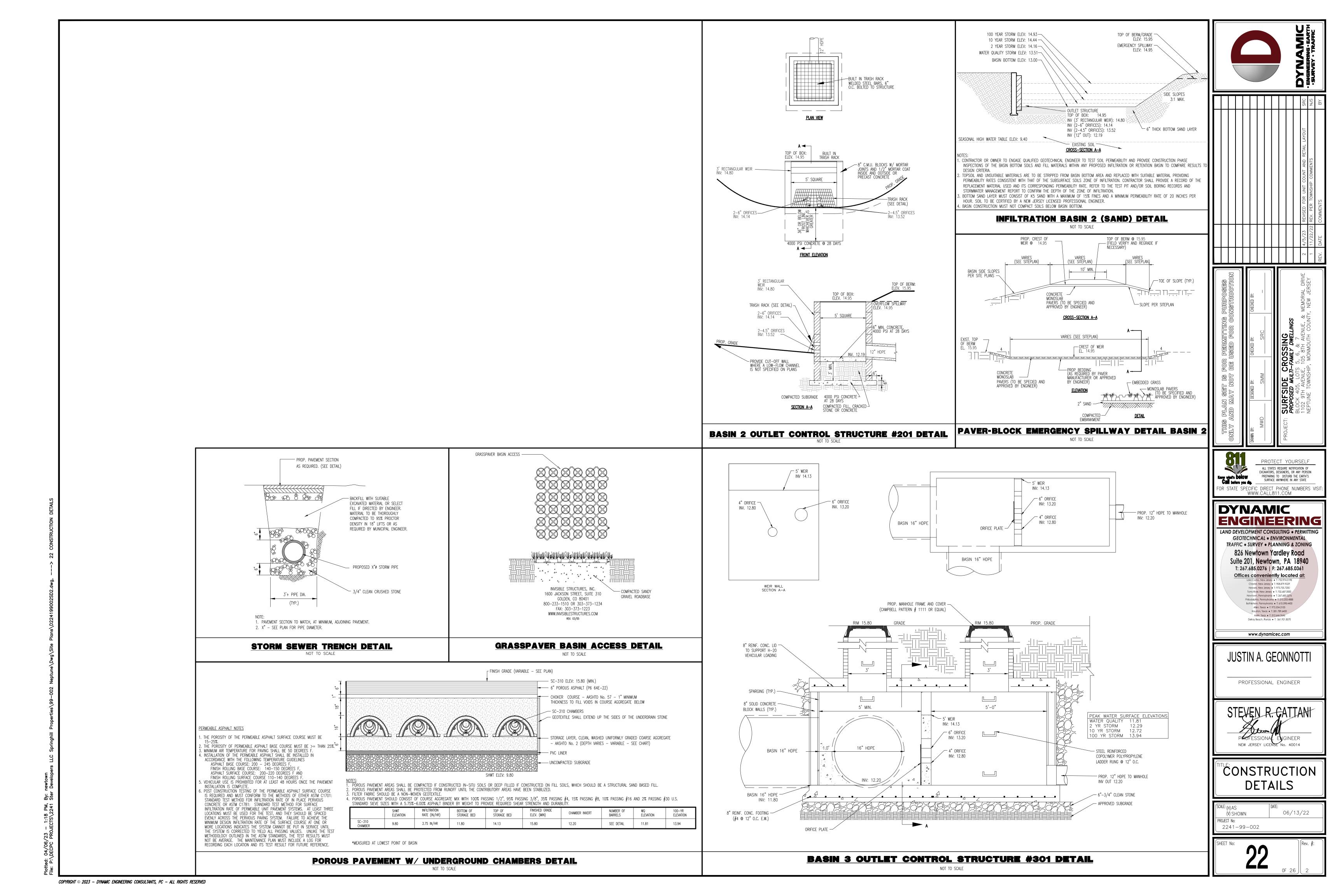


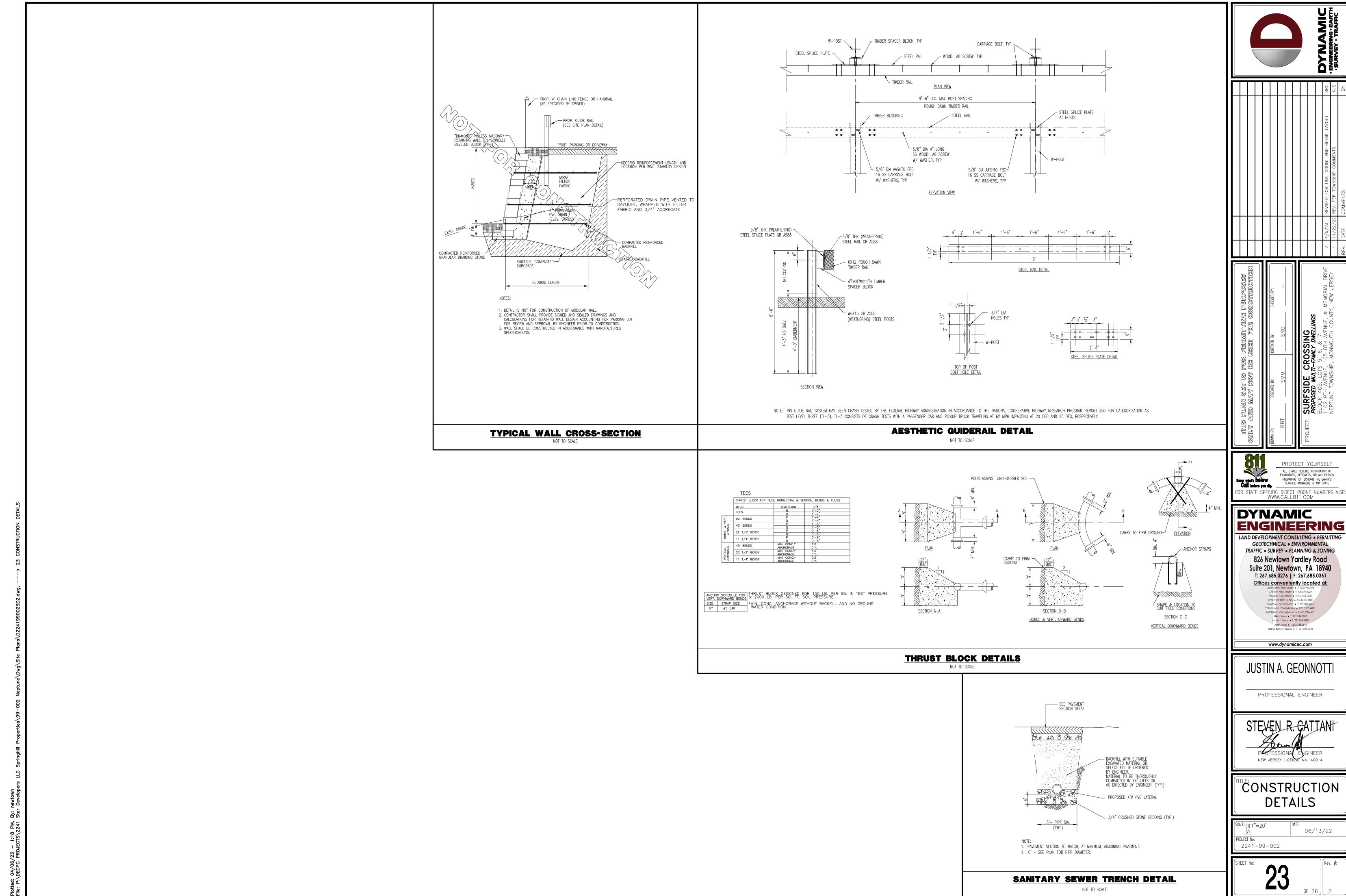
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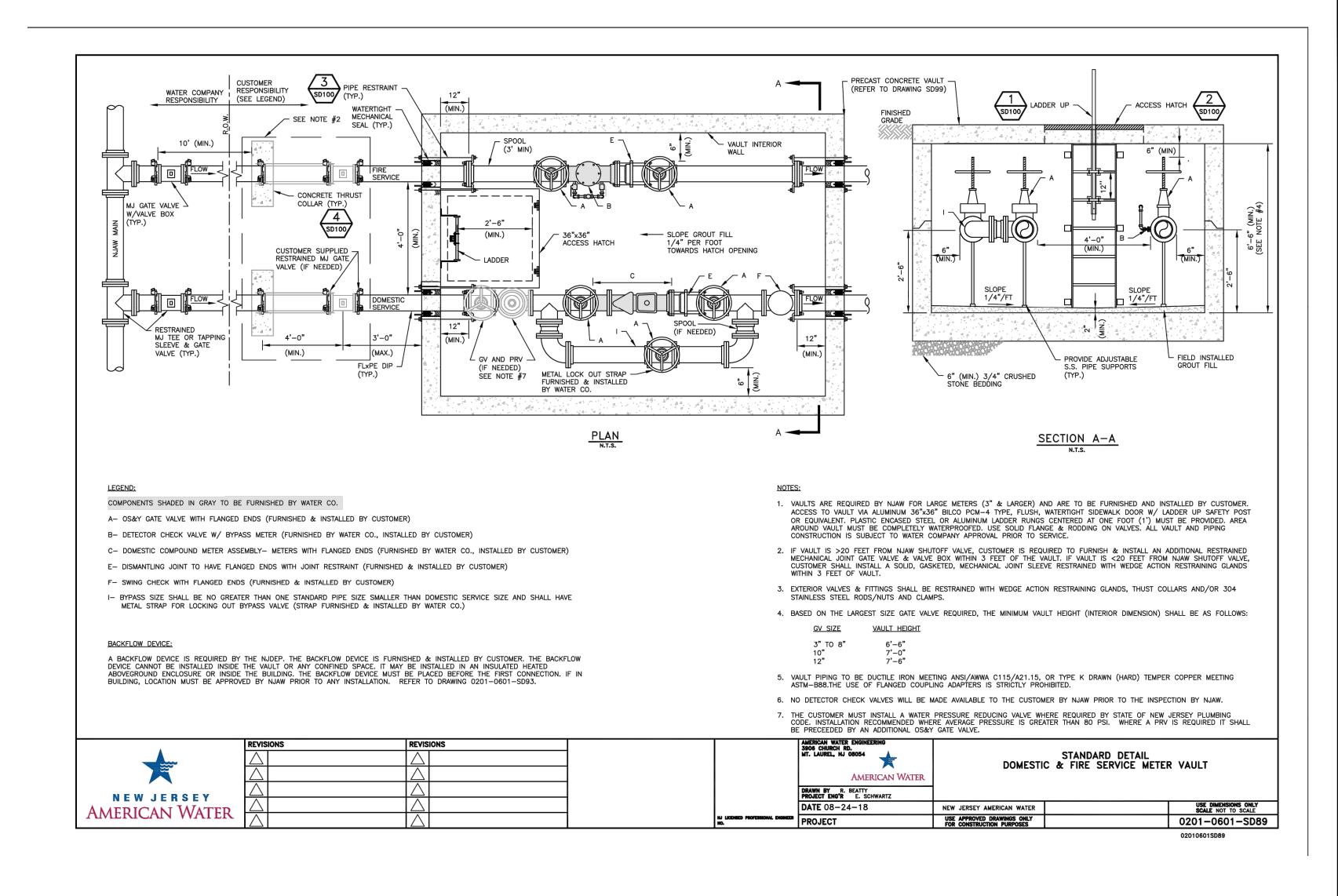
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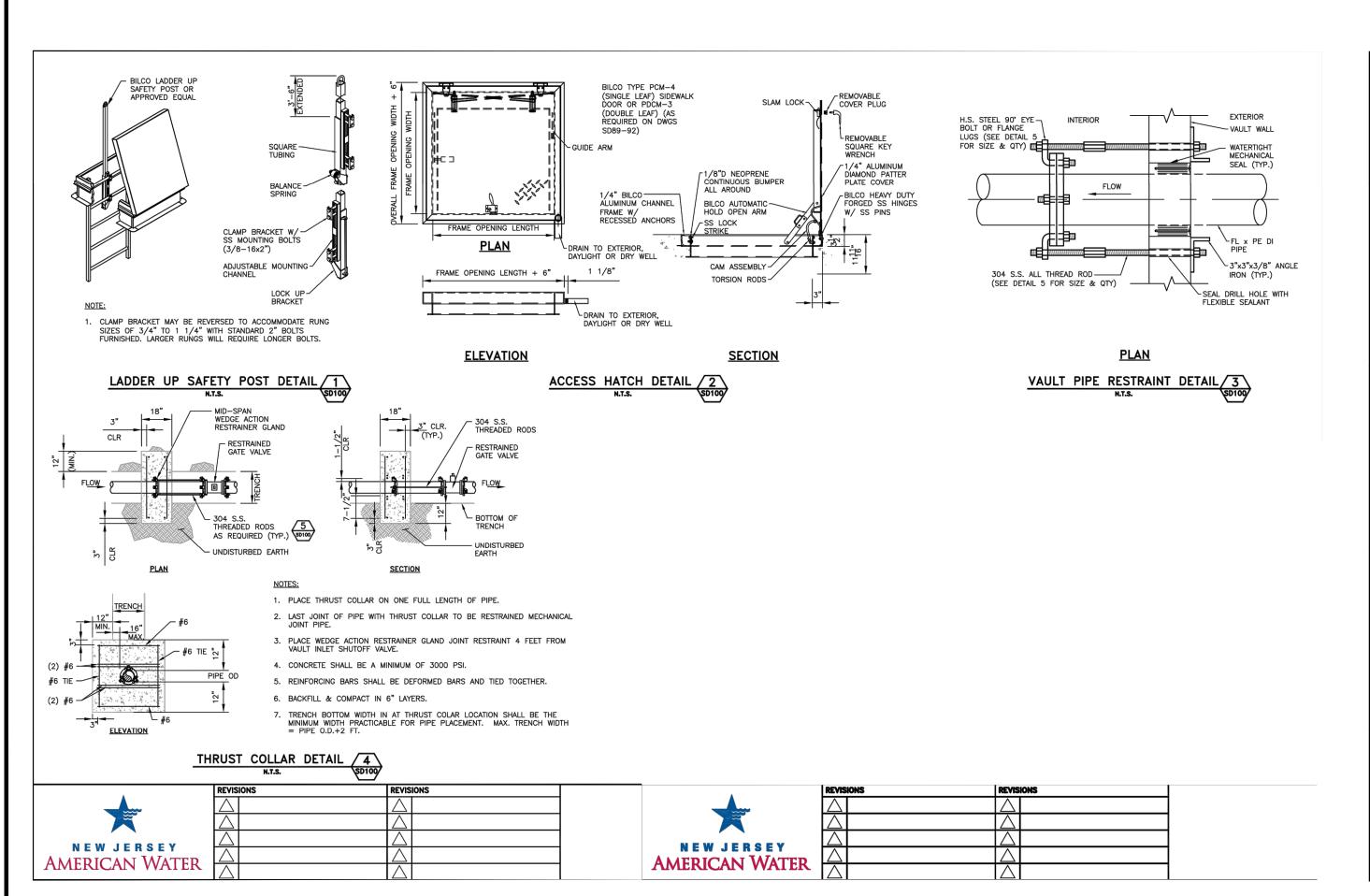


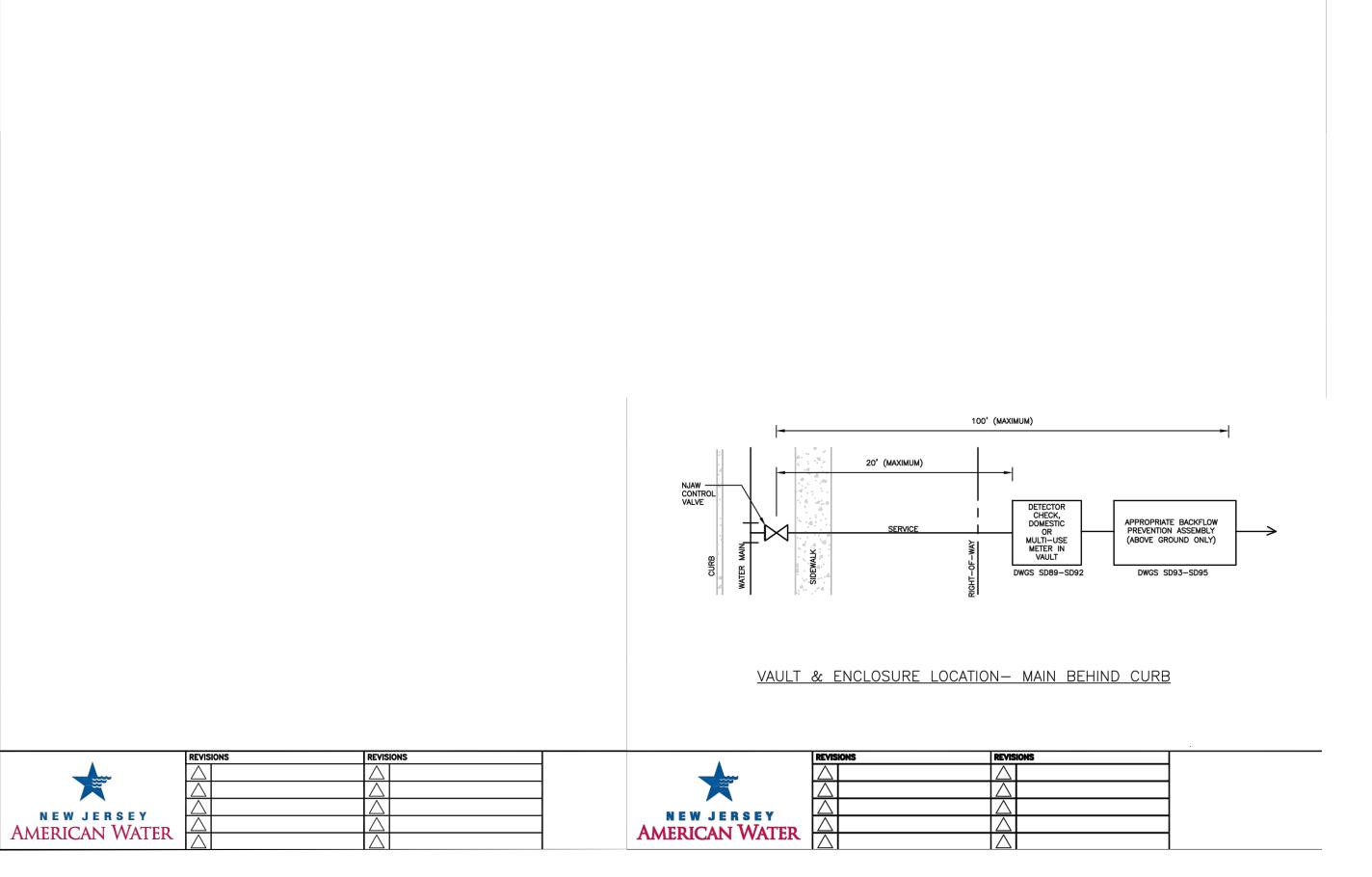


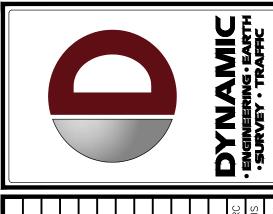


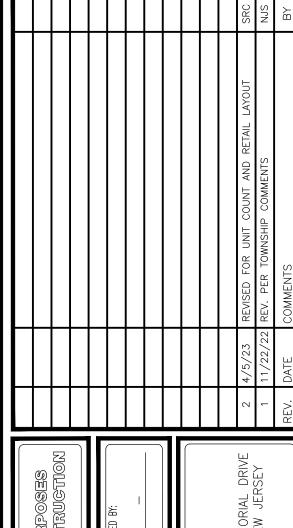












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PROJECT: <b>SU</b> <b>PRO</b> BLOC 1102 NEPT	PROJECT: SURFSIDE CROSSING  PROPOSED MULTI-FAMILY DWELLINGS  BLOCK 405, LOTS 5, 6, & 7  1102 9TH AVENUE, 105 8TH AVENUE, & MEMORIAL DI NEPTUNE TOWNSHIP, MONMOUTH COUNTY, NEW JERSE	SSING AILY DWELLINGS 6, & 7 5 BTH AVENUE, & ONMOUTH COUNT	MEMORIAL EY, NEW JERS



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JUSTIN A. GEONNOTTI

PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 40014

CONSTRUCTION
DETAILS

SCALE: (H) 1"=20' DATE:
(V) 06/13/22

PROJECT No:
2241-99-002

No: **24** OF 26

1:18 PM, STS\2241

PROJECT INFORMATION				
ENGINEERED PRODUCT MANAGER				
ADS SALES REP				
PROJECT NO.				





## SURFSIDE CROSSING 3 REV 2

#### NEPTUNE, NJ, USA

#### SC-310 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-310.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
- 3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION
- 6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2)

MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.

7. REQUIREMENTS FOR HANDLING AND INSTALLATION:

FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS
- THAN 2".

   TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED
- FROM REFLECTIVE GOLD OR YELLOW COLORS.

  8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE
- DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:

  THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
- THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO
- THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.

#### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

- STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
- STORMTECH RECOMMENDS 3 BACKFILL METHODS:

   STONESHOOTER LOCATED OFF THE CHAMBER BED.

   BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.

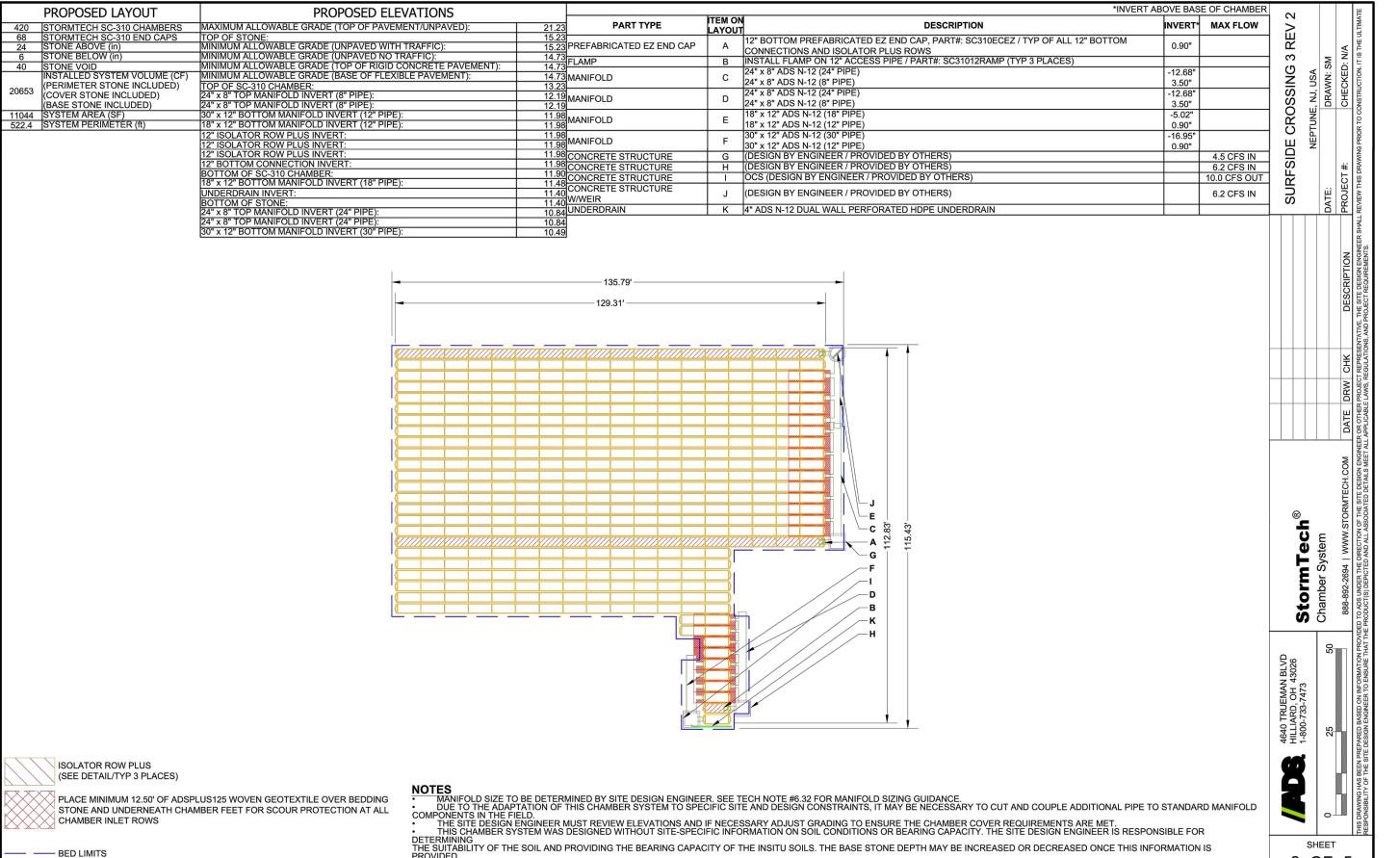
BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.

- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
   JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.
   NOTES FOR CONSTRUCTION EQUIPMENT
- 1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

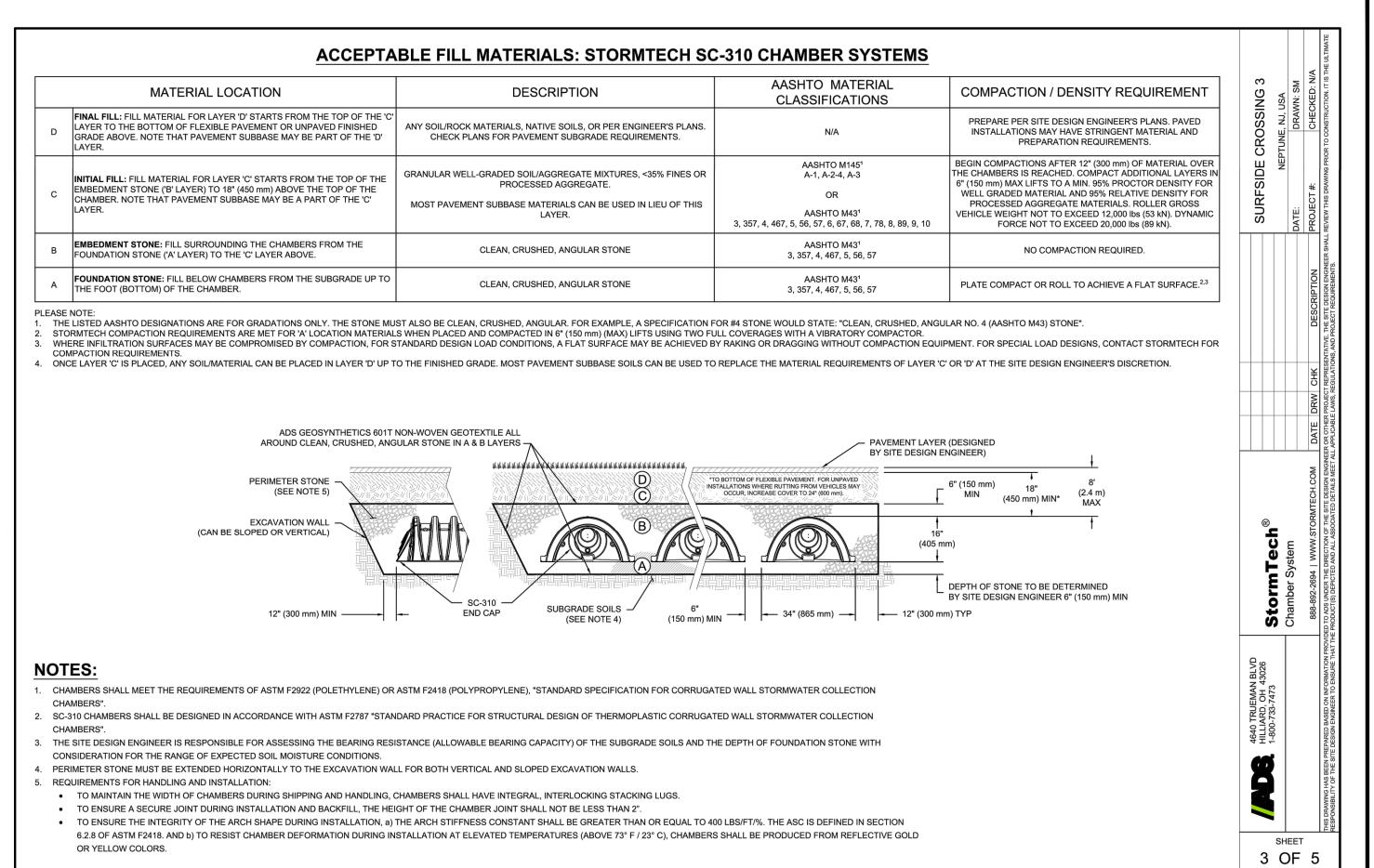
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH

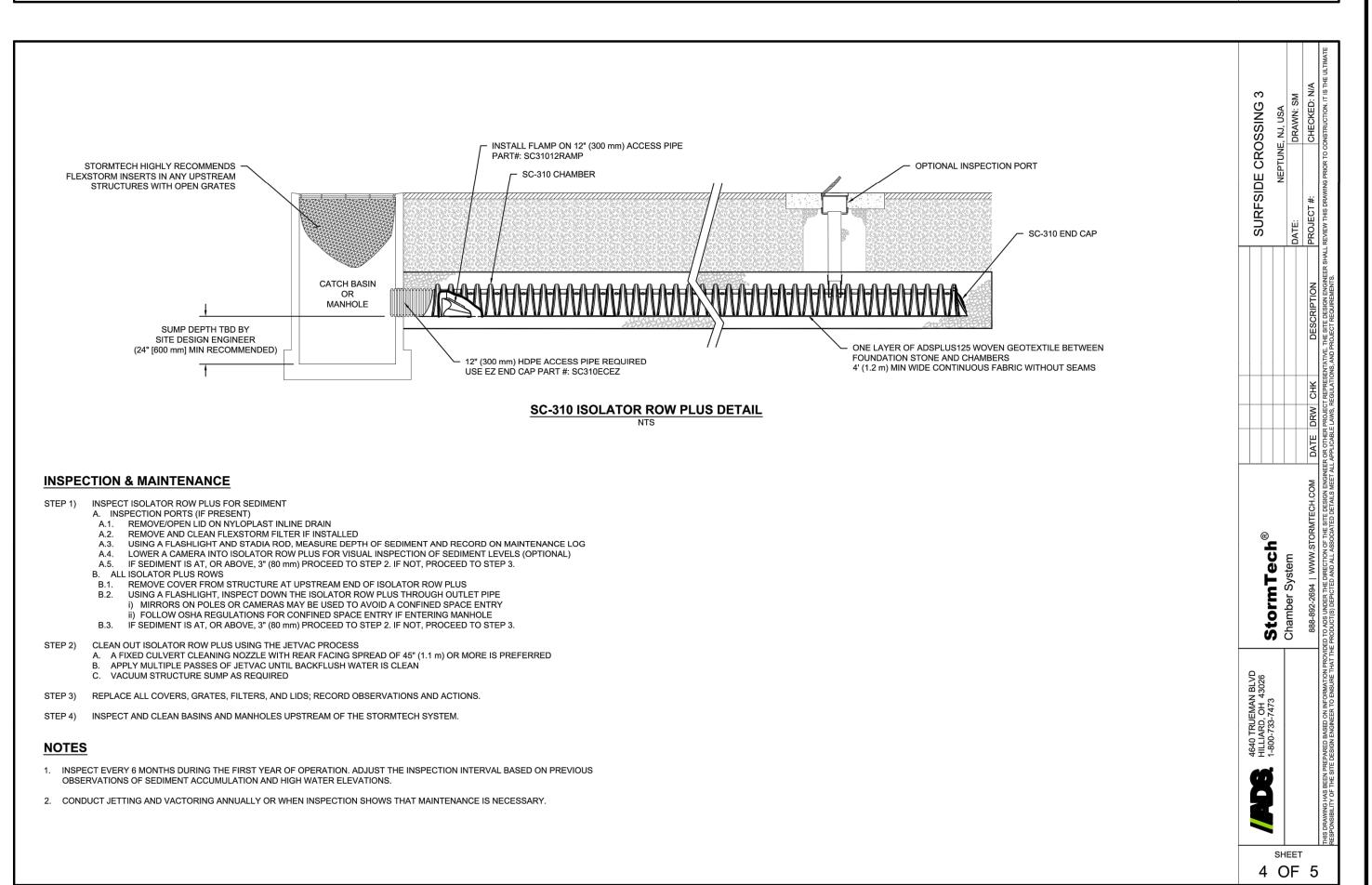
STANDARD WARRANTY.

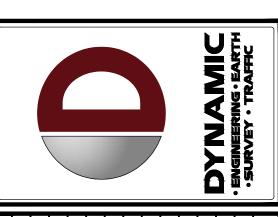
CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.







		2 4/5/23 REVISED FOR UNIT COUNT AND RETAIL LAYOU 1 11/22/22 REV. PER TOWNSHIP COMMENTS
THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION	DRAWN BY:         DESIGNED BY:         CHECKED BY:         CHECKED BY:           RBT         SMM         SRC         —	PROJECT: SURFSIDE CROSSING  PROPOSED MULTI-FAMILY DWELLINGS  BLOCK 405, LOTS 5, 6, & 7  1102 9TH AVENUE, 105 8TH AVENUE, & MEMORIAL DRIVE NEPTUNE TOWNSHIP, MONMOUTH COUNTY, NEW JERSEY
811	PROTE	ECT YOURSELF



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JUSTIN A. GEONNOTTI

PROFESSIONAL ENGINEER

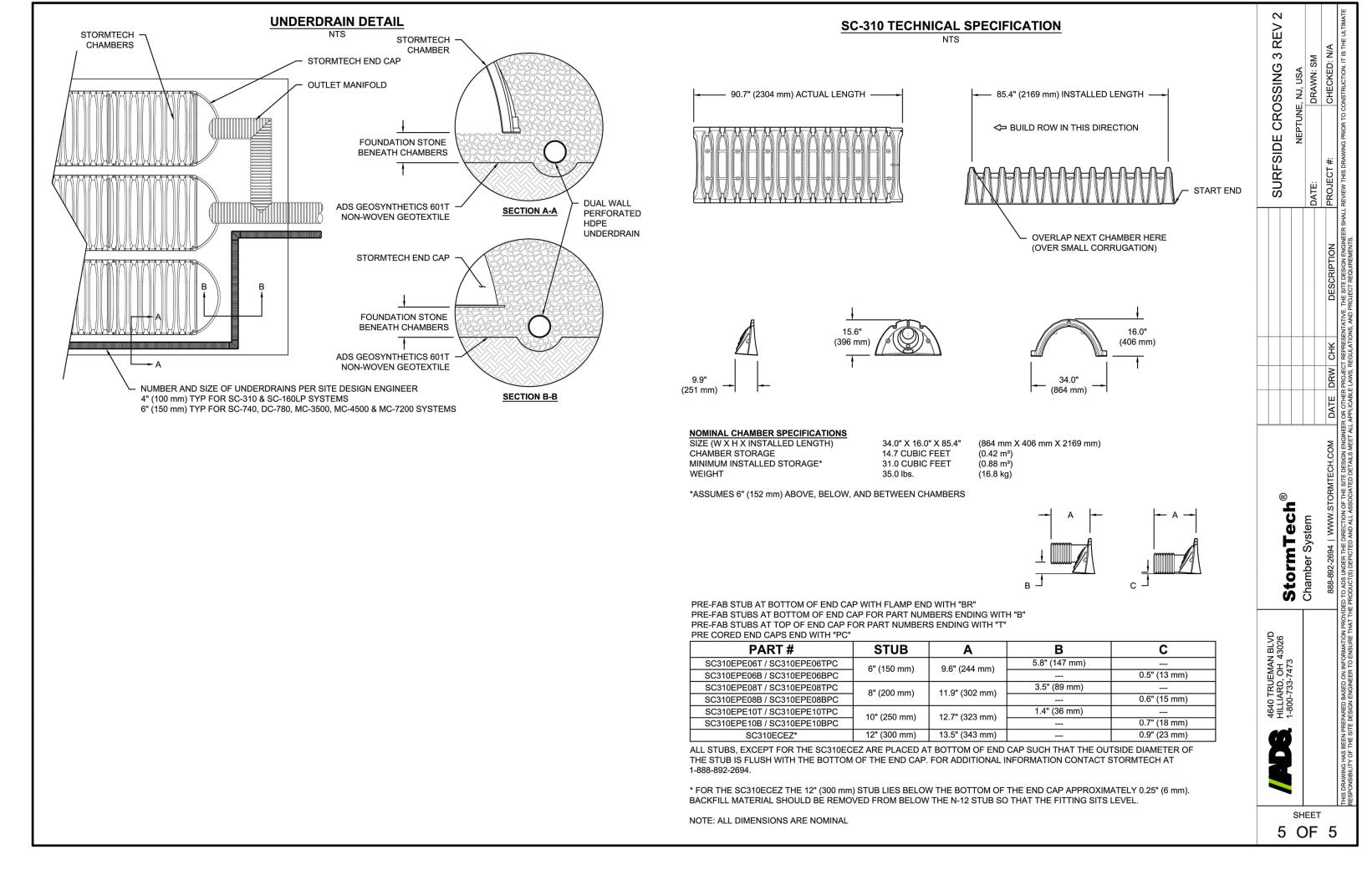
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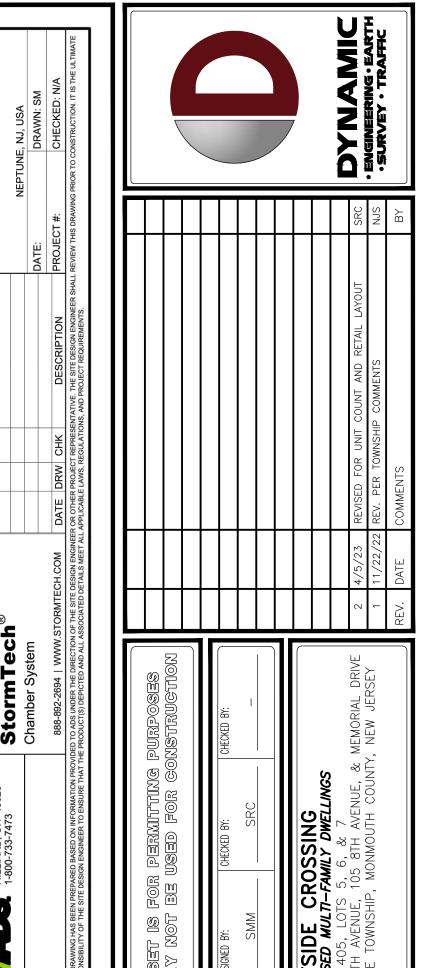
CONSTRUCTION DETAILS

SCALE: (H) 1"=20' DATE: (V). PROJECT No: 2241-99-002

<sup>1 No:</sup> 25

2 OF 5







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