

Plotted: 8/22/2023 6:23 PM, By: Nicholas DeCotis
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200FT PROPERTY OWNERS LIST

Block	Lot	Qualifier	Location	Owner	Owner Address
82.01	1		RIDGE ROAD	SETON HALL PREPARATORY SCHOOL	120 NORTHFIELD AVENUE
82.01	7.04		652 PROSPECT AVENUE	FRIENDLY SONS OF THE SHILLELAGH FOU	652 PROSPECT AVE
82.01	7.07		654 PROSPECT AVENUE	BABU, NANDKISHORE K-NADIGER,PANKAJA	654 PROSPECT AVE
82.01	7.08		658 PROSPECT AVENUE	DELMONICO, DINA & FRANK POZAR	658 PROSPECT AVE
82.01	7.09		662 PROSPECT AVENUE	MALDONADO-CORTES,JAPULTON, STEFANI	662 PROSPECT AVENUE
82.01	7.10		666 PROSPECT AVENUE	LEHMERT, ELAINE	666 PROSPECT AVE
82.01	7.11		670 PROSPECT AVENUE	LEMMA, THOMAS & ARIAS-AVILES,M	670 PROSPECT AVENUE
82.01	7.12		674 PROSPECT AVENUE	CAMACHO, LIONEL A	674 PROSPECT AVENUE
82.01	7.13		PROSPECT AVENUE	DAVIS,RUTH TRUST/EST BERSTECHEER,LON	66 MAIN STREET
82.02	13		614 PROSPECT AVENUE	ANTIOCH PRESBYTERIAN CHURCH OF NJ	614-616 PROSPECT AVE
82.02	13.09		600 PROSPECT AVENUE	NAJERA, MARK S. & LUCY	600 PROSPECT AVE
82.03	1		598 PROSPECT AVENUE	APPEL, STEVEN M & WOLF, SHARON	598 PROSPECT AVENUE
82.03	3		586 PROSPECT AVENUE	ALMANZAR, SAMUEL & ENID	586 PROSPECT AVE
82.03	9		37 RIDGE ROAD	THE ECCLESIAJ, CESTONE RES. TRUST	37 RIDGE ROAD
82.03	14		RIDGE ROAD	MOUNTAIN RESOURCES CORP.	PO BOX 1874
82.03	17		27 RIDGE ROAD	CANDYLAND LAND, LLC	27 RIDGE ROAD
82.03	27		510-520 PROSPECT AVE.	BREA WO EMERITUS,LLC/SECOVA 3349	PO BOX 2447
83	5.01		303 MT. PLEASANT AVENUE	GRSJ PROPERTIES, LLC	3 BUCKINGHAM ROAD
155	26		375 MT. PLEASANT AVENUE	375 MT. PLEASANT AVE CONDO ASSOC	375 MT. PLEASANT AVE
155	26.01		325 MT. PLEASANT AVENUE	P.S. ELECTRIC & GAS CO 734-A TAX DEP	150 CIRCLE AVENUE
155	27		MARION DRIVE	ESSEX GREEN VILLAS	MARION DRIVE
155	27	C0101	101 MARION DRIVE	CLARK, BARBARA	101 MARION DRIVE
155	27	C0102	102 MARION DRIVE	CESTONE, SUZANNE	102 MARION DRIVE
155	27	C0103	103 MARION DRIVE	BANARES, IRENE	103 MARION DRIVE
155	27	C0104	104 MARION DRIVE	POMBRIANT, JOSEPH	104 MARION DRIVE
155	29		347 MT. PLEASANT AVENUE	MORRIS UNION HOLDING LLC	1240 HDQUART PLZA 8TH FLE
155.01	1.01		403 MT. PLEASANT AVENUE	PIERRE, JEAN JARROT	403 MT. PLEASANT AVENUE
155.01	35		401 MT. PLEASANT AVENUE	SIMMONS, NIGEL	401 MT PLEASANT AVE
155.01	36		3 WEDGEWOOD DRIVE	VENKATRAMAN, GUHA & SURYA	3 WEDGEWOOD DRIVE
155.20	60		2 WEDGEWOOD DRIVE	GONZALEZ MORALES, MIREYA A	2 WEDGEWOOD DR
155.20	61		7 WEDGEWOOD DRIVE	THE ARC OF ESSEX COUNTY, INC.	7 REGENT STREET
156	1		PROSPECT & MT PLEASANT	ESSEX COUNTY COUNTRY CLUB	350 MT. PLEASANT AVENUE
156	19.01		33 OLD INDIAN ROAD	BENNETTE, SAHIB R & MICHAELA	33 OLD INDIAN RD
156	19.02		29 OLD INDIAN ROAD	PICCONA, NATACHA & LOUIS	29 OLD INDIAN RD
156	19.03		41 OLD INDIAN ROAD	SARAC, AMILA & MINCY, WILLIAM	41 OLD INDIAN RD
156	19.04		31 OLD INDIAN ROAD	GRAHAM,MALAN + DONNA	31 OLD INDIAN ROAD
156	19.05		39 OLD INDIAN ROAD	CAMPBELL, SUSAN	39 OLD INDIAN RD
156	19.06		37 OLD INDIAN ROAD	BYUN, ALEXANDRA & DENNIS	37 OLD INDIAN ROAD
156	29		57 OLD INDIAN ROAD	BERRY, CHERISSE	57 OLD INDIAN ROAD
156	29.01		3 MARGULIS COURT	ADDERLEY, NATHANIEL E & ANGELAC	3 MARGULIS CT & ANGELAC
156	29.02		7 MARGULIS COURT	SIMPKINS, DY SHAWN	7 MARGULIS COURT
156	29.03		8 MARGULIS COURT	MOORE, MATTHEW PAUL	8 MARGULIS COURT
156	29.04		4 MARGULIS COURT	SNYDER, JASON + TALIA	4 MARGULIS CT
156	35		97-105 OLD INDIAN ROAD	OLD INDIAN PROPERTIES LLC	4 DABRY CT
156	35.01		104-115 OLD INDIAN ROAD	OLD INDIAN PROPERTIES LLC	4 DABRY CT
157.01	11		MT. PLEASANT AVENUE	COUNTY OF ESSEX	115 CLIFTON AVENUE
158	22		1 RIDGEWAY AVENUE	MICHELEL, CHARLES & HORNE, ELLEN	1 RIDGEWAY AVENUE
158	27		5 RIDGEWAY AVENUE	WILLIAMS, GREGORY & SARAH R	5 RIDGEWAY AVE
158.01	40		681 PROSPECT AVENUE	THE CHURCH OF HOLY INNOCENTS	681 PROSPECT AVENUE
158.01	41		12 OLD INDIAN ROAD	MOONSTANTON LEAGUE, CO-CLARK/BO	10 BELGRADE TERRACE
158.01	43		6 RIDGEWAY AVENUE	ST CLOUD PRESBYTERIAN CHURCH	20 OLD INDIAN ROAD
158.21	10		20 GAVIN ROAD	JENSEN, VERONICA M	20 GAVIN RD
158.21	11.01		88 OLD INDIAN ROAD	KARL, WILLIAM J. & DANIELLE,N	88 OLD INDIAN ROAD
158.21	11.02		92 OLD INDIAN ROAD	DESHAPANDE,AKSHAY A & NADUVILADATHA	92 OLD INDIAN ROAD
158.21	11.03		96 OLD INDIAN ROAD	MCCLEMMY,JAMES & MADELYN	96 OLD INDIAN ROAD
158.21	15		100 OLD INDIAN ROAD	HAWKINS, BARBARA K	100 OLD INDIAN ROAD

APPLICANT/OWNER

ESSEX COUNTY COUNTRY CLUB
350 MT. PLEASANT AVE
WEST ORANGE, NJ 07052

LEGEND

	BOUNDARY LINE
	LOT LINE
	LOT NUMBER
	BLOCK LIMIT
	BLOCK NUMBER
	ZONE BOUNDARY
	ZONE DESIGNATION
	MUNICIPAL BOUNDARY
	200' ADJOINER LINE
	PROPOSED SITE

GENERAL NOTES:

- SITE IS KNOWN AND DESIGNATED AS BLOCK 156, LOT 1 OF THE TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY TAX MAP DATED AUGUST 1986 AND LAST REVISED ON JANUARY 14, 2002, AND ON SHEET 39, 39.01, 39.02 AND 39.03 OF THE TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY.
- SUBJECT SITE PRIVATE GOLF COUNTY CLUB, LOCATED WITHIN THE R-2 SINGLE FAMILY RESIDENTIAL ZONE DISTRICT AS PER THE TOWNSHIP OF WEST ORANGE ZONING MAPS. ACCORDING TO THE TOWNSHIP OF WEST ORANGE ORDINANCE, SECTION 25-7.1, A GOLF COURSE AND GOLF CLUB HOUSES ARE PERMITTED USE IN R-2 DISTRICT.
- THIS PROJECT INCLUDES THE ABOVE REFERENCED LOTS AND ENCOMPASSES 176.832 ACRES.
- BOUNDARY INFORMATION FOR THE SUBJECT SITE IS BASED UPON MAP ENTITLED "SURVEY OF EAST COURSE, ESSEX COUNTY COUNTRY CLUB, TOWN OF WEST ORANGE, ESSEX COUNTY, NJ", PREPARED BY GC STEWART, INC.
- THE PROPOSED SITE IS PRIVATE GOLF CLUB IN R-2 RESIDENTIAL ZONE AREA. THE PROPOSED PROJECT IS TO EXPAND AND REDEVELOP THE EXISTING GOLF CLUB HOUSE PARKING LOT, AND ADDITIONS OF GOLF CART STORAGE BUILDING AND GOLF COURSE REST ROOM BUILDING.
- HORIZONTAL (NAD 83) AND VERTICAL DATUM (NAVD1988) BASED ON MAPS ENTITLED "ASBUILT" DATED SEPTEMBER 29, 2015 & "PARTIAL TOPOGRAPHIC SURVEY" DATED MAY 26, 2022; PREPARED BY MATRIX NEW WORLD ENGINEERING, INC.
- THIS PLAN SET CONSISTS OF 16 SHEETS. INDIVIDUAL PAGES SHALL NOT BE UTILIZED FOR CONSTRUCTION ON THEIR OWN AS NOTES AND INFORMATION PROVIDED ON OTHER SHEETS MAY IMPACT WORK REQUIREMENTS. CONTRACTOR SHALL REVIEW AND UTILIZE ENTIRE PLAN SET FOR CONSTRUCTION.
- THESE PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF PRELIMINARY AND FINAL MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THE PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL FINAL APPROVALS HAVE BEEN OBTAINED AND ALL CONDITIONS OF THE APPROVALS HAVE BEEN SATISFIED
- A KNOX BOX SPECIFIC MODEL AND LOCATION IS TO BE COORDINATED WITH THE LOCAL FIRE OFFICIAL
- A BACKFLOW DEVICE WILL BE INCLUDED IN THE BUILDING CONSTRUCTION DRAWING.
- SEE ZONING TABLE ON OVERALL LOCATION PLAN SHEET 3 OF 16.

WAIVER REQUEST

- BOUNDARY SURVEY BY GC STEWART IS OLDER THAN 5 YEARS, WHICH DOES NOT COMPLY WITH THE TOWNSHIP REQUIREMENT
- PROPOSED SITE PLAN DOES NOT PROVIDE ALL EXISTING STREET, WATER COURSES, FLOOD PLAINS, WETLAND OR OTHER ENVIRONMENTALLY SENSITIVE AREAS ON AND WITHIN 200FT OF THE SITE.
- PROPOSED SITE PLAN DOES NOT PROVIDE EXISTING RIGHT-OF-WAY AND/OR EASEMENT ON AND WITHIN 200FT OF TRACT.
- THE PLAN DOES NOT PROVIDE BOUNDARY, LIMITS, NATURE AND EXTENT OF WOODED AREAS, SPECIMEN TREES AND OTHER SIGNIFICANT PHYSICAL FEATURE.
- THE SITE PLAN APPLICATION DOES NOT PROVIDE SOLID WASTE MANAGEMENT PLAN. THE PROPOSED CLUB ADDITION WILL UTILIZE THE EXISTING SOLID WASTE MANAGEMENT PLAN.

VARIANCE REQUESTS

- PARKING REQUIREMENT PER ORDINANCE 25-12.2.b.1 REQUIRES ONE PARKING SPACE FOR EACH 45 SQUARE FEET OF GROSS FLOOR AREA. WITH TOTAL EXISTING CLUB HOUSE GROSS FLOOR AREA OF 29,584 SQUARE FEET, 658 PARKING SPACES ARE REQUIRED. EXISTING SITE PROVIDES TOTAL OF 203 PARKING SPACES. THE PROPOSED SITE IMPROVEMENTS PROVIDE AN ADDITIONAL 37 PARKING SPACES FOR A TOTAL OF 240 PARKING SPACES.

SITE PLAN

ESSEX COUNTY COUNTRY CLUB

BLOCK 156, LOTS 1

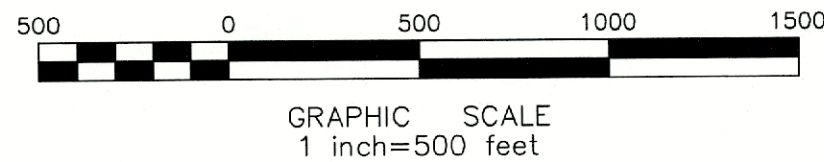
TOWNSHIP OF WEST ORANGE

ESSEX COUNTY, NEW JERSEY



KEY MAP

SCALE: 1" = 500'



SOURCE: TOWNSHIP OF WEST ORANGE TAX MAPS

DRAWING INDEX		
Sheet No.	Title	Revision Date
1	TITLE SHEET	
2	EXISTING CONDITIONS & DEMOLITION PLAN	
3	OVERALL LOCATION PLAN	
4	SITE PLAN	
5	RESTROOM PLAN	
6	CART STORAGE BUILDING PLAN	
7	GRADING PLAN	
8	UTILITY & LIGHTING PLAN-1	
9	UTILITY & LIGHTING PLAN-2	
10	SOIL EROSION & SEDIMENT CONTROL PLAN-1	
11	SOIL EROSION & SEDIMENT CONTROL PLAN-2	
12	SOIL EROSION & SEDIMENT CONTROL PLAN-3	
13	SOIL EROSION & SEDIMENT CONTROL PLAN-4	
14	CONSTRUCTION DETAILS-1	
15	CONSTRUCTION DETAILS-2	
16	SOIL EROSION & SEDIMENT CONTROL DETAILS	

APPROVED BY THE
TOWNSHIP OF WEST ORANGE
PLANNING BOARD

CHAIRPERSON _____ DATE _____

SECRETARY _____ DATE _____

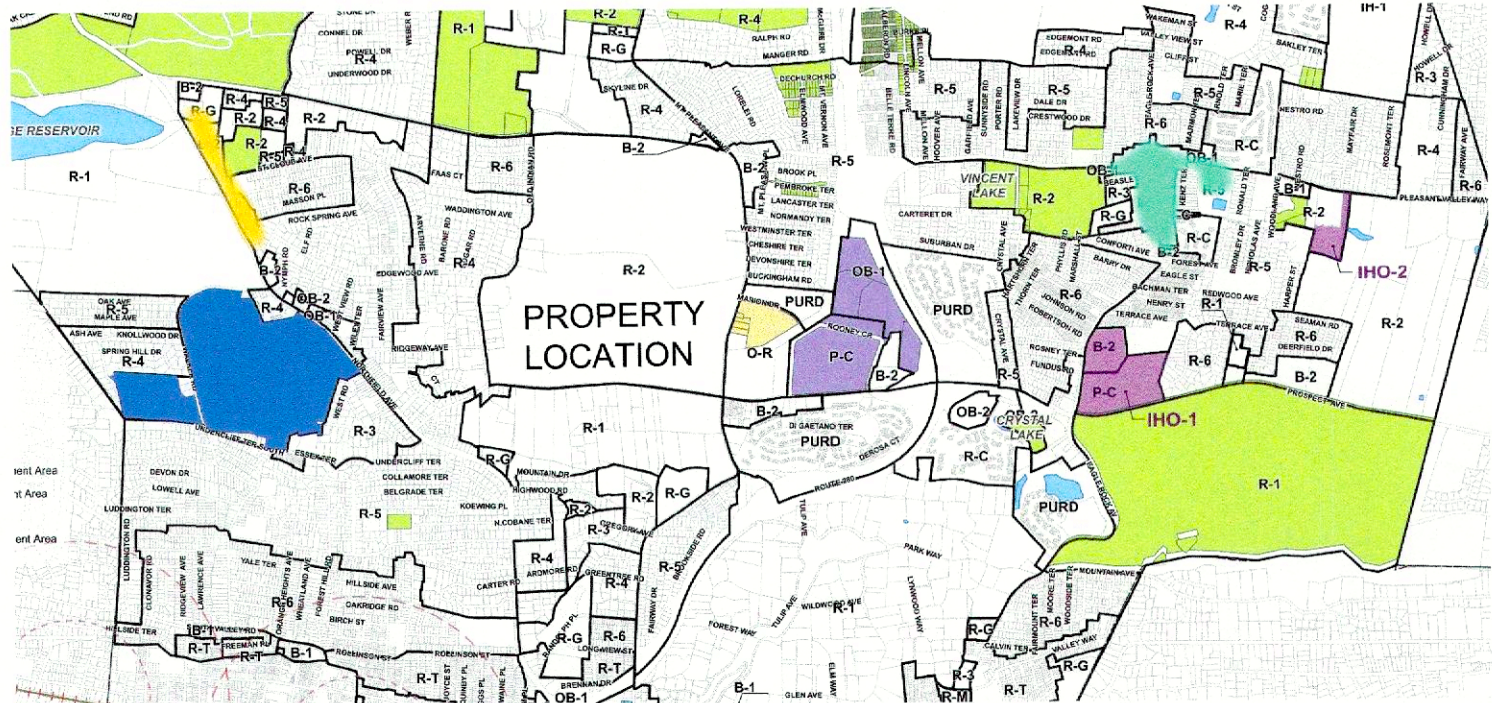
TOWNSHIP ENGINEER _____ DATE _____

UTILITY CONTACTS

JOINT MEETING ESSEX & UNION
500 SOUTH FIRST STREET, ELIZABETH, NJ, 07202

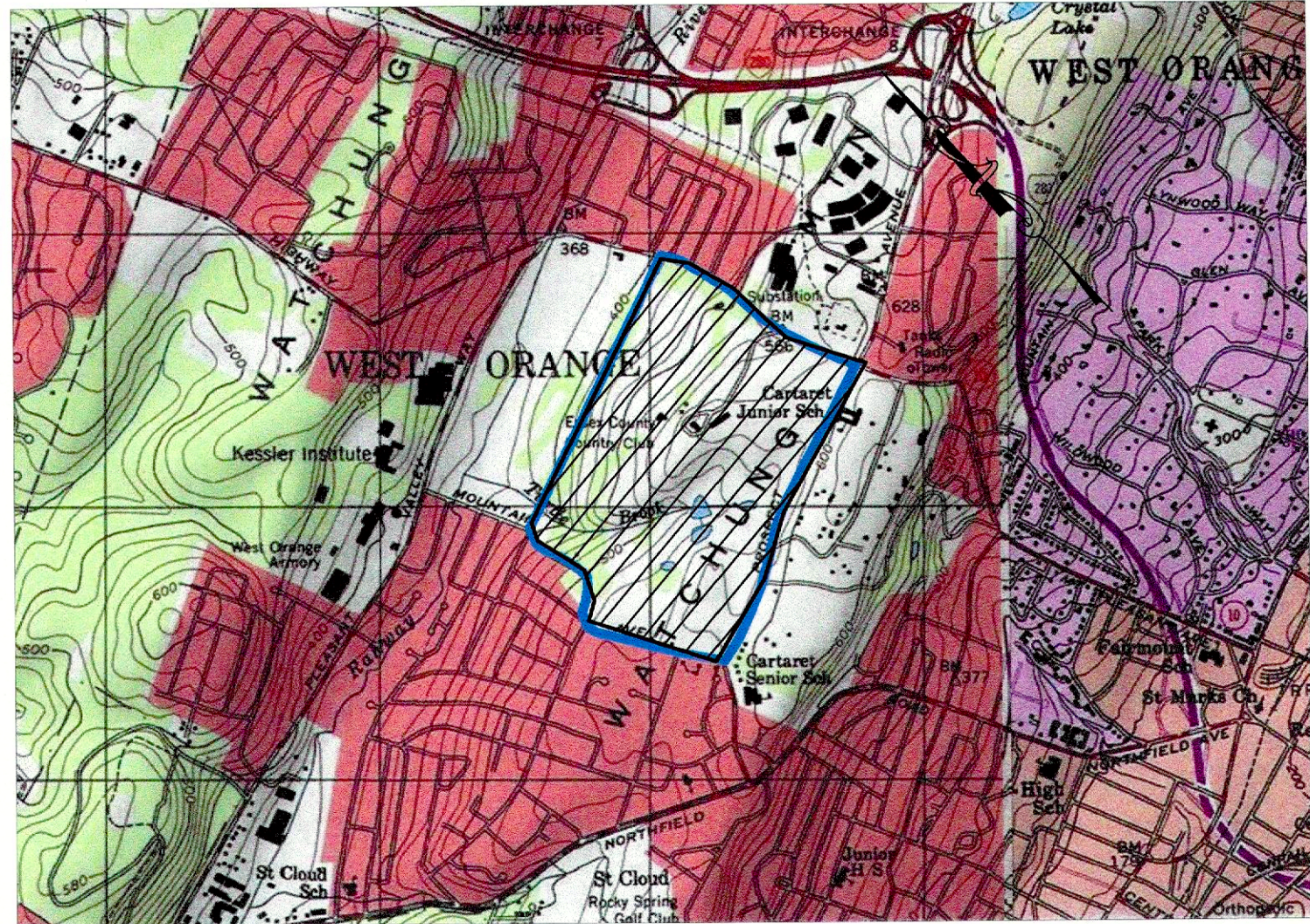
NEW JERSEY AMERICAN WATER COMPANY
1025 LAUREL OAK ROAD, VORHEES, NJ 08043
1-800-852-6967

PUBLIC SERVICE ELECTRIC AND GAS
2000 FRANK E RODGERS BLVD S, HARRISON, NJ, 07029
1-800-436-7734



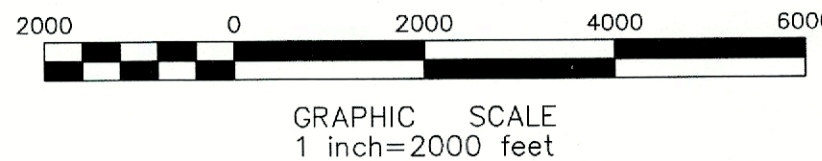
ZONING MAP

NTS



SITE LOCATION MAP

SCALE: 1" = 2000'



NOTICE TO CONTRACTOR

ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT THE APPROXIMATE LOCATIONS OF KNOWN UTILITY STRUCTURES AND FACILITIES THAT MAY BE ENCOUNTERED WITHIN AND ADJACENT TO THE LIMITS OF WORK AREA ARE SHOWN ON THE PLANS. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED BY THE ENGINEER, AND THE CONTRACTOR IS ADVISED TO VERIFY, IN THE FIELD, ALL THE FACTS CONCERNING THE LOCATION OF THESE UTILITIES AND OTHER CONSTRUCTION OBSTACLES PRIOR TO THE START OF CONSTRUCTION. FURTHER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, PRIOR TO THE START OF CONSTRUCTION, OF ANY DISCREPANCIES WHICH MAY EFFECT THE PROJECT DESIGN.

THE CONTRACTOR SHALL CONTACT NEW JERSEY ONE CALL (1-800-272-1000 OR LATEST NUMBER) FOR UTILITY MARKOUT PRIOR TO THE START OF CONSTRUCTION.

DESIGNED BY:	REVIEWED BY:	RELEASED BY:	NO.	DATE:	DES.	REV.	REL.
PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 240604080300							
08/07/2023							
DATE							
WATERMEN LLC							
3107 ATLANTIC AVENUE PO BOX 309 ALLENWOOD, NJ 08720							
NJ Certificate of Authorization #24GAC2269010 Tel: 908-228-6301							
TITLE SHEET							
ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS							
SITUATED IN CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY							
PROJECT NUMBER:							
DATE: 08/07/2023							
SCALE: AS SHOWN							
SHEET 1 OF 16							



LEGEND

	BOUNDARY LINE		TOP OF WALL
	BLOCK LINE		BOTTOM OF WALL
	EXISTING ROW		STREAM BANK TOP
	LOT LINE		STREAM BANK BOTTOM
	CURB LINE		SPOT ELEVATION
	DEPRESSED CURB		BOTTOM OF CURB
	EDGE OF PAVEMENT		TOP OF CURB
	FENCE		GRATE ELEVATION
	STORM DRAIN		GENERAL SIGN
	SANITARY SEWER		STREET SIGN
	GUIDE RAIL		MAIL BOX
	UNDERGROUND ELECTRIC LINE		FIRE HYDRANT
	OVER HEAD WIRE		WATER VALVE
	UNDERGROUND TELEPHONE		WATER METER
	UNDERGROUND CABLE TELEVISION		MONITOR WELL
	GAS LINE		GAS VALVE
	WATER LINE		GAS METER
	TREE LINE		SANITARY CLEAN OUT
	CONTOURS MINOR		MANHOLE
	CONTOURS MAJOR		STORM DRAINAGE INLET
	DECIDUOUS TREE		HEADWALL
	EVERGREEN TREE		UTILITY POLE
	TO BE DEMOLISHED/REMOVED		GUY ANCHOR
			LIGHT POLE
			SINGLE HEAD LAMP

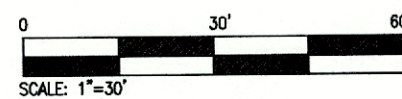
REMOVE EXISTING TREE

EXISTING CONDITIONS NOTES:

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- UTILITIES HAVE BEEN SHOWN FROM EVIDENCE LOCATED ON THE SURFACE ONLY. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES

DEMOLITION NOTES:

- ALL STREET APPURTENANCES (INCLUDING SIGNS, POLES, TREES AND FENCING) WITHIN THE LIMITS SHOWN ARE TO BE REMOVED AND DISPOSED OFF-SITE UNLESS OTHERWISE NOTED.
- EXISTING LIGHTING AND UTILITY POLE REMOVALS ARE TO BE PERFORMED BY THE UTILITY COMPANY.
- ALL UNDERGROUND UTILITIES, LINES, PIPING, STRUCTURES, FOUNDATIONS, VAULTS AND BUILDING FRAGMENTS ASSOCIATED WITH FORMER BUILDINGS TO BE REMOVED, WITHIN THE PROJECT BOUNDARY, ARE TO BE REMOVED AND DISPOSED OFF SITE.
- ALL DEMOLITION SHALL CONFORM TO ANY APPLICABLE FEDERAL, STATE OR LOCAL REGULATIONS. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR SITE SAFETY AND WILL CONFORM TO AND ABIDE BY ALL CURRENT OSHA STANDARDS OR REGULATIONS. SAFE CONSTRUCTION PRACTICES REMAIN THE OBLIGATION OF THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE FEDERAL, STATE AND LOCAL PERMITS PRIOR TO ABANDONMENT AND/OR DEMOLITION.
- ALL STRUCTURES (CURBS, SIDEWALKS, PATIO, RETAINING WALL, FENCES, ASPHALT, CONCRETE, ETC.) TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE AT AN APPROPRIATE FACILITY.
- ALL DEBRIS, TREES, STUMPS, VEGETATION, DIRT PILES, CONSTRUCTION DEBRIS, ETC WITHIN THE PROJECT'S BOUNDARY SHALL BE REMOVED AS PART OF THIS PROJECT AND BE DISPOSED OF OFF-SITE UNLESS OTHERWISE STATED OR APPROVED.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES THAT CONSTRUCTION OF THE WORK UNDER THIS PLAN WILL PASS THROUGH AREAS WHERE THEIR SERVICES EXIST. NOTIFICATION TO THE UTILITIES MUST BE MADE IN A SUFFICIENT AMOUNT OF TIME IN ADVANCE (MIN. 72 HOURS) PRIOR TO START OF ANY CONSTRUCTION WORK IN THE AFFECTED AREAS.
- ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR BACKFILL AND COMPACTION CERTIFICATION. BACKFILL MATERIAL IS TO BE APPROVED BY THE ENGINEER. PLACEMENT OF MATERIAL TO BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
- ALL UTILITY SERVICES TO EXISTING RESIDENTIAL AND COMMERCIAL BUILDINGS ADJACENT TO THE PROJECT, THAT ARE TO REMAIN, WILL BE MAINTAINED DURING SITE CONSTRUCTION UNTIL THE REPLACEMENT UTILITIES ARE FULLY OPERATIONAL AND ACCEPTED BY THE APPROPRIATE AUTHORITY. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE TO THE BUILDING OWNERS OF ANY TEMPORARY INTERRUPTIONS OF SERVICES. TEMPORARY INTERRUPTIONS MAY BE NEEDED TO CONNECT THE EXISTING SERVICES TO THE NEWLY CONSTRUCTED UTILITIES AND TO TEST THE UTILITIES.
- ALL UTILITY CONNECTIONS TO ADJACENT BUILDINGS MUST STAY ACTIVE.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE SHUT OFF, DISCONNECT, AND/OR CAPPING OF ALL UTILITIES TO THE SITE INCLUDING, BUT NOT LIMITED TO, WATER, SEWER, ELECTRIC, CABLE, TELEPHONE, ETC. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY SHUT OFFS AND LETTERS, OBTAINING ALL PERMITS TO COMPLETE ALL PHASES OF THE PROJECT AND TO PROVIDE PERIMETER CHAIN LINK FENCING (MIN. 6' HIGH) AND SILT FENCING (MIN. 3' HIGH) FOR THE DURATION OF THE DEMOLITION PROJECT. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CONSTRUCTION ENTRANCE WITH A SOIL DECONTAMINATION STATION AND MAINTAINING SITE SECURITY. AN APPROVED SOIL EROSION & SEDIMENT CONTROL PLAN WILL BE PROVIDED UPON REQUEST.
- ALL SUITABLE MATERIAL SHALL BE CRUSHED AND STOCKPILED ON SITE. MATERIAL SHALL BE SEPARATED FROM SITE BY STOCKPILING ON 3MM CLEAR PLASTIC. MATERIAL TO BE CRUSHED TO SPECIFICATION PROVIDED BY GEOTECHNICAL ENGINEER FOR STRUCTURAL FILL.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE WEST ORANGE FIRE DEPARTMENT TO LOCATE AND REMOVE ABANDON FIRE HYDRANT.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE WEST ORANGE BUILDING DEPARTMENT TO REMOVE STAND PIPE.
- CONTRACTOR TO REMOVE AND SALVAGE EXISTING PATIO, SIDEWALK AND DRIVEWAY PAVERS FOR OWNER REUSE.
- EXISTING DOMESTIC AND FIRE SPRINKLER WATER LINE SURVEY INFORMATION FOR THE SUBJECT SITE IS BASED UPON CONTRACTOR FIELD INVESTIGATION MARKUP PROVIDED ON DECEMBER 10, 2014.



EXISTING CONDITIONS & DEMOLITION PLAN

ESSEX COUNTY COUNTRY CLUB
IMPROVEMENTS

SITUATED IN
CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

PROJECT NUMBER:

DATE: 08/07/2023

SCALE: AS SHOWN

SHEET 2 OF 16

PAUL T. CALABRESE, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 240E04400500

DATE

DESIGNED BY

REVIEWED BY

RELEASED BY

NO

DESCRIPTION

REVISIONS

DATE

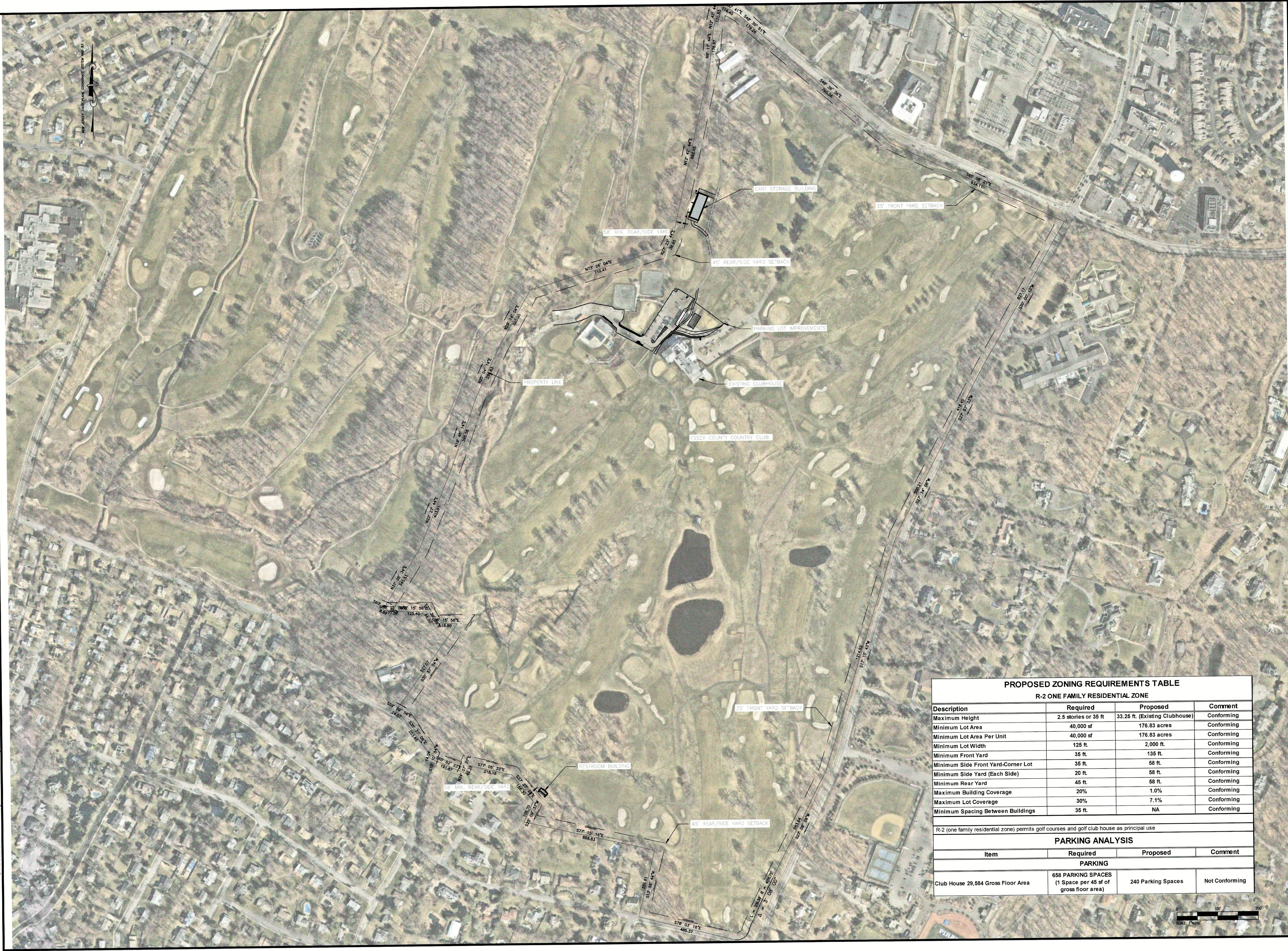
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REV:

REL:

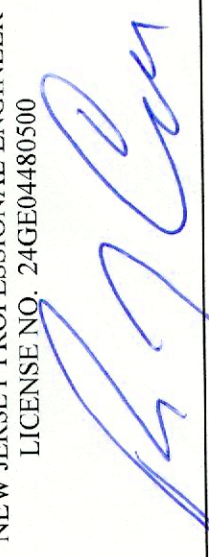


WATERMEN
1000 ROUTE 100, SUITE 100
ALLENWOOD, NJ 08829
Tel: 908-229-6303
NJ Certificate of Authorization #24CA28226903



PROPOSED ZONING REQUIREMENTS TABLE			
R-2 ONE FAMILY RESIDENTIAL ZONE			
Description	Required	Proposed	Comment
Maximum Height	2.5 stories or 35 ft	33.25 ft. (Existing Clubhouse)	Conforming
Minimum Lot Area	40,000 sf	176.83 acres	Conforming
Minimum Lot Area Per Unit	40,000 sf	176.83 acres	Conforming
Minimum Lot Width	125 ft.	2,000 ft.	Conforming
Minimum Front Yard	35 ft.	135 ft.	Conforming
Minimum Side Front Yard-Corner Lot	35 ft.	58 ft.	Conforming
Minimum Side Yard (Each Side)	20 ft.	58 ft.	Conforming
Minimum Rear Yard	45 ft.	58 ft.	Conforming
Maximum Building Coverage	20%	1.0%	Conforming
Maximum Lot Coverage	30%	7.1%	Conforming
Minimum Spacing Between Buildings	35 ft.	NA	Conforming
R-2 (one family residential zone) permits golf courses and golf club house as principal use			
PARKING ANALYSIS			
Item	Required	Proposed	Comment
PARKING			
Club House 29,584 Gross Floor Area	658 PARKING SPACES (1 Space per 45 sf of gross floor area)	240 Parking Spaces	Not Conforming

DESIGNED BY:
REVIEWED BY:
RELEASED BY:

PAUL T. CALABRESE, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24GE04480500


08/07/2023
DATE

OVERALL LOCATION PLAN

ESSEX COUNTY COUNTRY CLUB
IMPROVEMENTS

SITUATED IN
CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

PROJECT NUMBER:

DATE: 08/07/2023

SCALE: AS SHOWN

SHEET 3 OF 16

NO.

DESCRIPTION

DATE

REV.

REL.

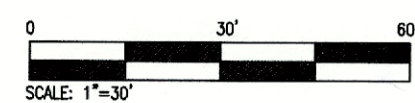
WATERMEN LLC

3107 ATLANTIC AVENUE
ALLENWOOD, NJ 08720
Tel: 908-221-6303
NJ Certificate of Authentication 24GA28226900

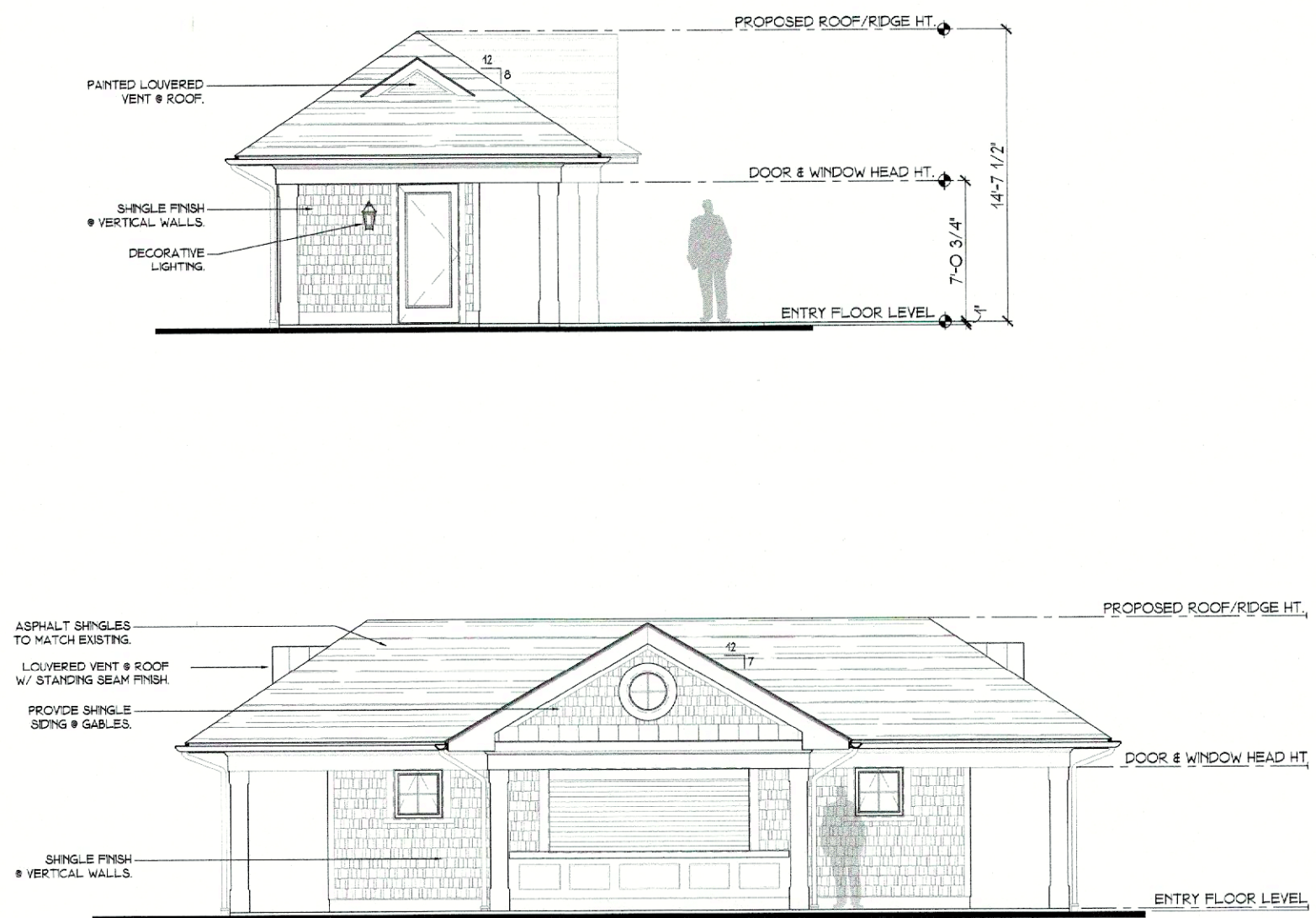
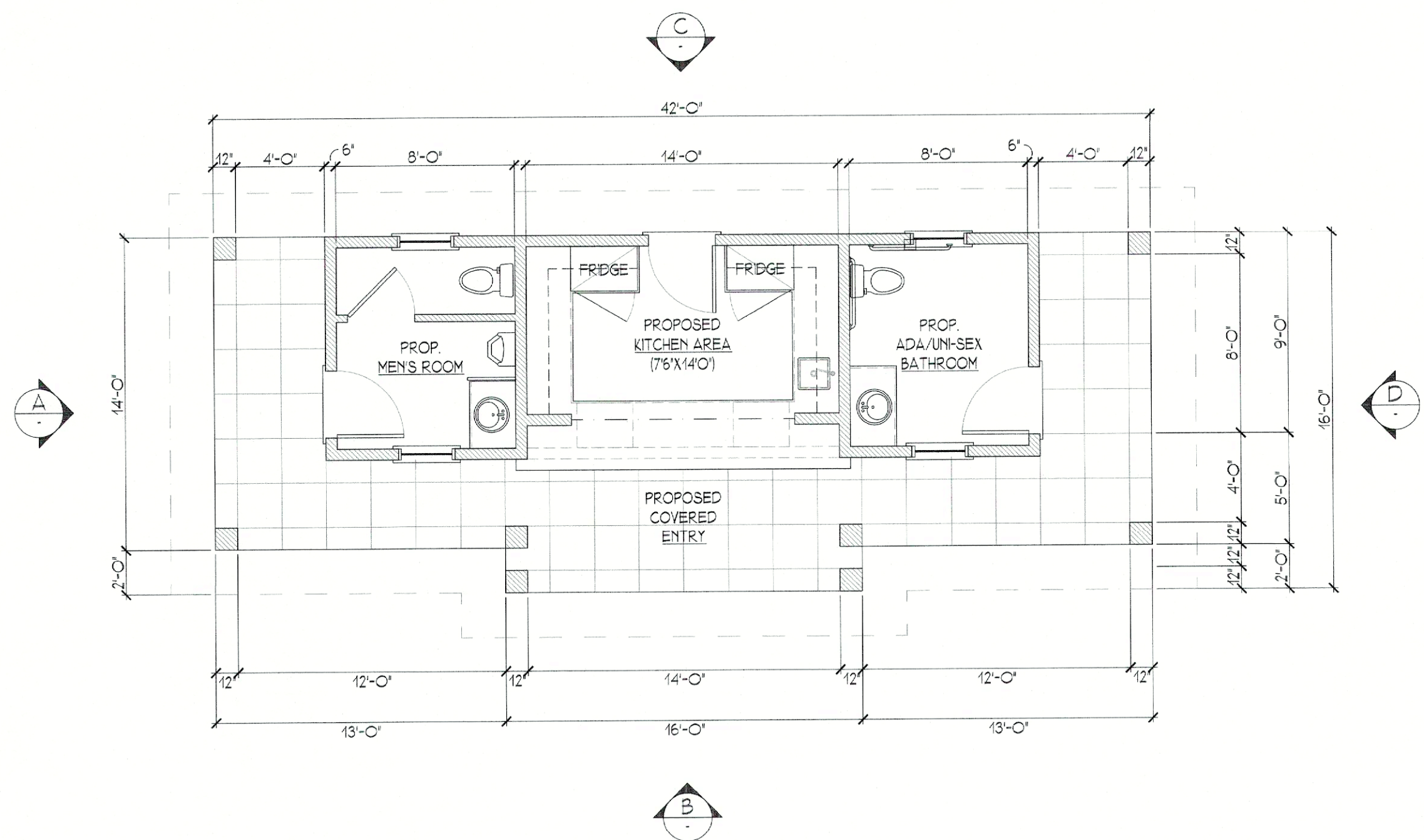


LEGEND			
	BOUNDARY LINE		TOP OF WALL
	BLOCK LINE		BOTTOM OF WALL
	EXISTING ROW		STREAM BANK TOP
	LOT LINE		STREAM BANK BOTTOM
	CURB LINE		SPOT ELEVATION
	DEPRESSED CURB		BOTTOM OF CURB
	EDGE OF PAVEMENT		TOP OF CURB
	FENCE		GRATE ELEVATION
	STORM DRAIN		GENERAL SIGN
	SANITARY SEWER		STREET SIGN
	GUIDE RAIL		MAIL BOX
	UNDERGROUND ELECTRIC LINE		FIRE HYDRANT
	OVER HEAD WIRE		WATER VALVE
	UNDERGROUND TELEPHONE		WATER METER
	UNDERGROUND CABLE TELEVISION		MONITOR WELL
	GAS LINE		GAS VALVE
	WATER LINE		GAS METER
	TREE LINE		SANITARY CLEAN OUT
	CONTOURS MINOR		MANHOLE
	CONTOURS MAJOR		STORM DRAINAGE INLET
	DECIDUOUS TREE		HEADWALL
	EVERGREEN TREE		UTILITY POLE
	LIGHT POLE		GUY ANCHOR
	SINGLE HEAD LAMP		

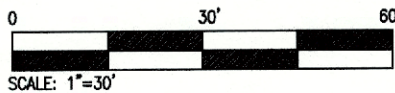
- SITE NOTES:**
1. ALL SIGNAGE TO BE POSTED IN ACCORDANCE WITH THE UNITED STATES DEPARTMENT OF TRANSPORTATION—FEDERAL HIGHWAY ADMINISTRATION, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS (MUTCD), LATEST EDITION.
 2. ALL CURB AND SIDEWALKS SHALL CONFORM TO STATE AND FEDERAL BARRIER FREE DESIGN STANDARDS.
 3. ALL PROPOSED ON-SITE CURBING TO BE BELGIUM BLOCK.
 4. ALL CONNECTIONS WITH EXISTING PAVEMENTS, CURBS, SIDEWALKS, ETC SHALL BE SAW CUT.
 5. SIDEWALK/WALKWAY RISERS MUST BE GREATER THAN 4" AND LESS THAN 8".
 6. ALL CONTRACTORS MUST CALL THE NEW JERSEY ONE CALL SYSTEM (800-272-4000) IN ACCORDANCE WITH THE UNDERGROUND FACILITIES CONTROL ACT LAW PRIOR TO ANY SUBSURFACE ACTIVITY.
 7. SEE ARCHITECT'S PLANS FOR BUILDING ELEVATIONS, AND FLOOR PLANS.
 8. EXISTING PARKING SPACE MARKERS SHALL BE REMOVED TO SHOW THE PROPOSED PARKING SPACE AND ADA PARKING SPACE MARKERS



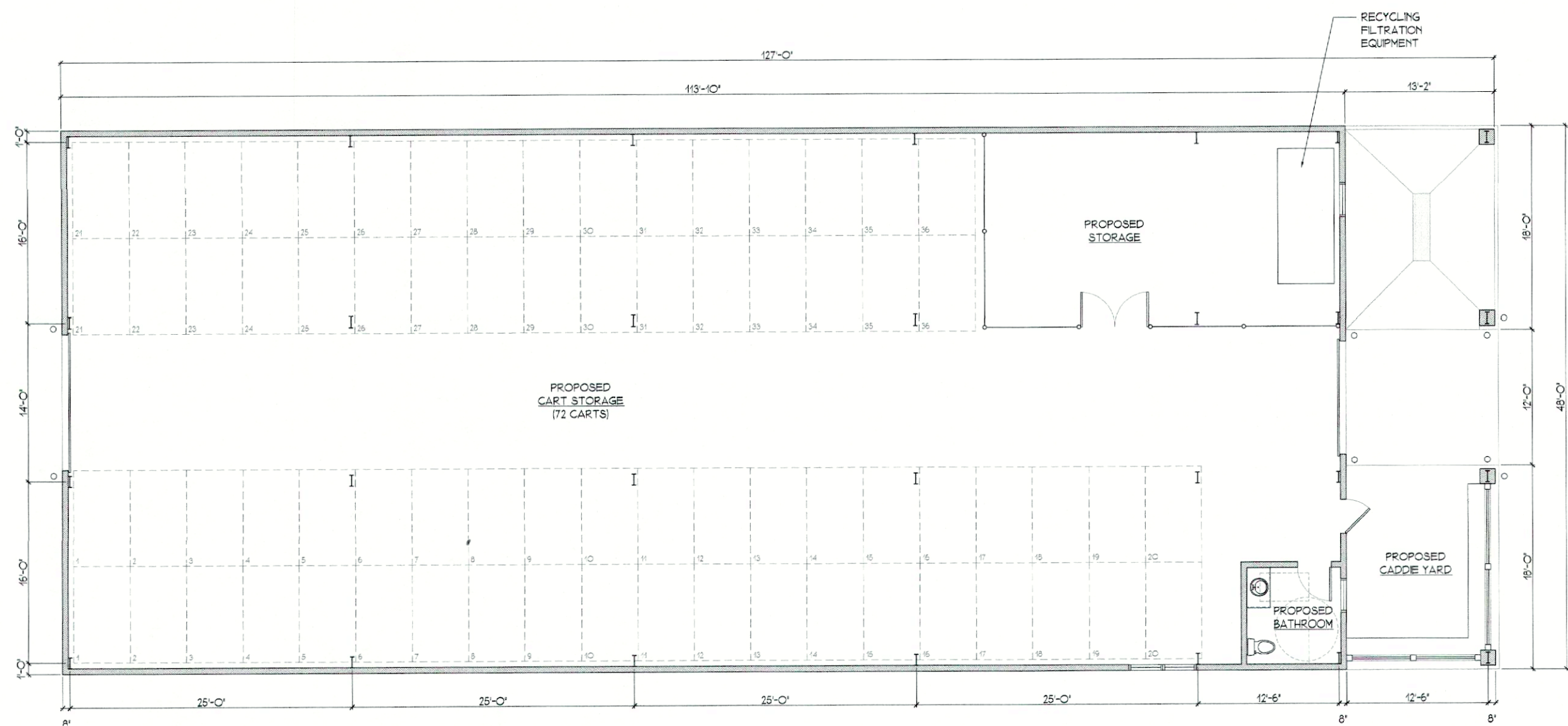
DESIGNED BY:	REVIEWED BY:	RELEASED BY:	NO.	DATE	DISCUSSION	REVISIONS
PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 2402486306						
08/07/2023 DATE						
1107 ATLANTIC AVENUE ALLENWOOD, NJ 08870 Tel. 908-229-0010						
SITE PLAN						
ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS						
SITUATED IN CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY						
PROJECT NUMBER:						
DATE: 08/07/2023						
SCALE: AS SHOWN						
SHEET 4 OF 16						



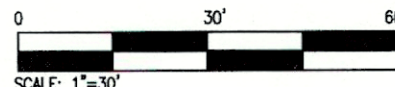
NOTES:
1. EXISTING CONDITIONS SHOWN ARE BASED UPON 2014 USGS CMGP LIDAR: POST SANDY (NEW JERSEY)
CONTOURS PROVIDED BY THE NATIONAL OCEANIC ATMOSPHERE ADMINISTRATION (NOAA).



DESIGNED BY:		REVIEWED BY:		RELEASED BY:		NO.		DATE:		DES.		REV.		REL.	
PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 240604480500															
08/07/2023 DATE															
WATERMEN LLC 3102 ATLANTIC AVENUE PO BOX 300 ALLENWOOD, NJ 08720 NJ Certificate of Authorization #24052826000 Tel: 908-224-5335															
RESTROOM PLAN ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS SITUATED IN CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY															
PROJECT NUMBER:															
DATE: 08/07/2023															
SCALE: AS SHOWN															
SHEET 5 OF 16															



NOTES:
1. EXISTING CONDITIONS SHOWN ARE BASED UPON 2014 USGS CMGP LIDAR: POST SANDY(NEW JERSEY)
CONTOURS PROVIDED BY THE NATIONAL OCEANIC ATMOSPHERE ADMINISTRATION (NOAA).



DESIGNED BY:		REVIEWED BY:		RELEASED BY:	
PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24604480500		[Signature]		[Signature]	
DATE: 08/07/2023		DATE: 08/07/2023		DATE: 08/07/2023	
DESCRIPTION		NO.		REV.	
REVISIONS		NO.		REV.	
PROJECT NUMBER:		DATE: 08/07/2023		SCALE: AS SHOWN	
SHEET 6 OF 16		CART STORAGE BUILDING PLAN		ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS	
CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY		SITUATED IN		SITUATED IN	

WATERMEN LLC
3107 ATLANTIC AVENUE
PO BOX 300
CLINTON TOWNSHIP, NJ 08720
NJ Certificate of Authorization #26CA32626900
14-0002524001

Plotted: 8/22/2023 6:31 PM, By: Nicholas DeCotis
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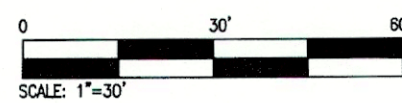
- | | | |
|------------------------------|-----------|----------------------|
| BOUNDARY LINE | TW | TOP OF WALL |
| BLOCK LINE | BW | BOTTOM OF WALL |
| EXISTING ROW | TB | STREAM BANK TOP |
| LOT LINE | BB | STREAM BANK BOTTOM |
| Face of Curb | x 56.00 | SPOT ELEVATION |
| CURB LINE | G 56.00 | BOTTOM OF CURB |
| DEPRESSED CURB | TC 105.17 | TOP OF CURB |
| EDGE OF PAVEMENT | GR 104.50 | GRATE ELEVATION |
| - x - x - x - | | GENERAL SIGN |
| STORM DRAIN | MB | MAIL BOX |
| SANITARY SEWER | | FIRE HYDRANT |
| GUIDE RAIL | W | WATER VALVE |
| UNDERGROUND ELECTRIC LINE | WM | WATER METER |
| OVER HEAD WIRE | MW-1 | MONITOR WELL |
| UNDERGROUND TELEPHONE | G | GAS VALVE |
| UNDERGROUND CABLE TELEVISION | GM | GAS METER |
| GAS LINE | CO | SANITARY CLEAN OUT |
| WATER LINE | | MANHOLE |
| TREE LINE | | STORM DRAINAGE INLET |
| CONTOURS MINOR | | HEADWALL |
| CONTOURS MAJOR | | UTILITY POLE |
| DECIDUOUS TREE | | GUY ANCHOR |
| EVERGREEN TREE | | LIGHT POLE |
| | | SINGLE HEAD LAMP |

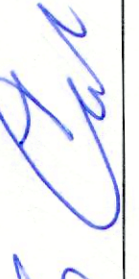
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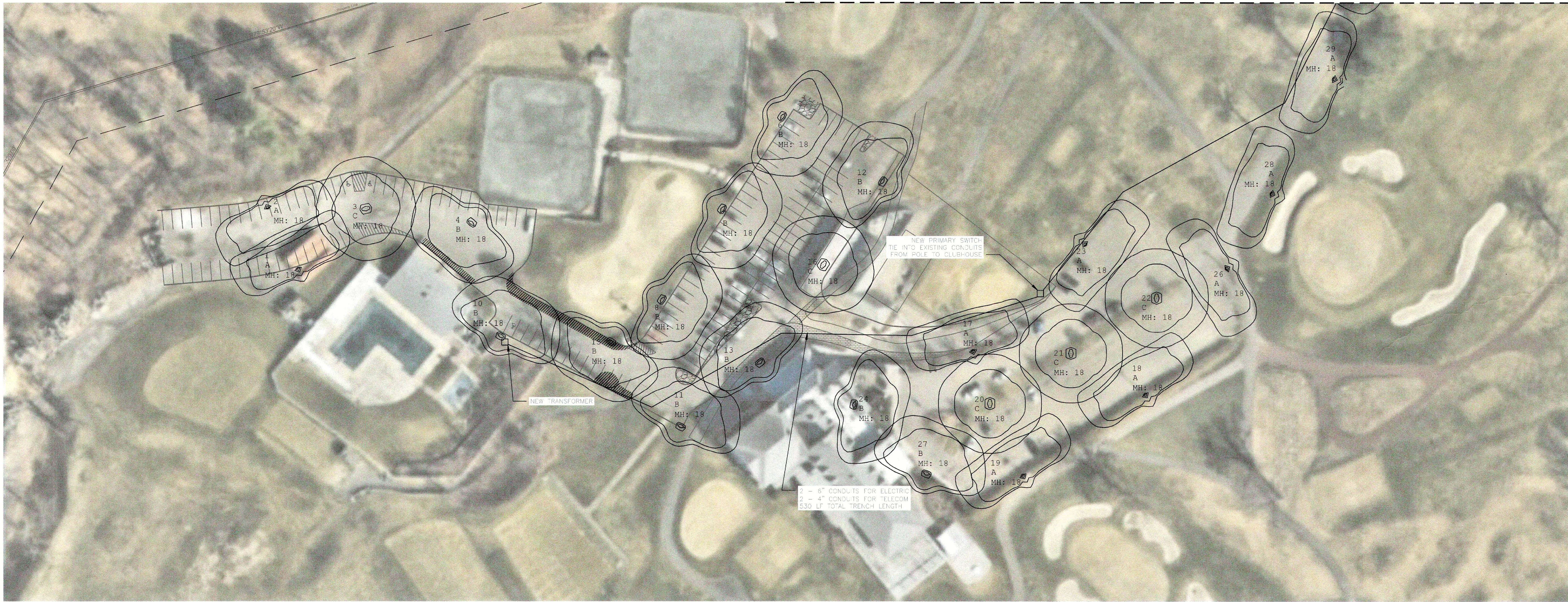
- | |
|----------------------------------|
| EXISTING PARKING LOT REPAVEMENT |
| 6" TOPSOIL, FERTILIZER & SEEDING |
| PARKING LOT ISLAND SUMP |
| STONE PAVER WALKWAY |
| ASPHALT CART PATH |
| NEW ASPHALT PARKING LOT |

GRADING NOTES

- ALL PROPOSED ON-SITE CURBING TO BE VERTICAL GRANITE BLOCK CURB WITH 6" REVEAL, UNLESS OTHERWISE STATED.
- ALL CURBS SHALL BE DEPRESSED AT CROSSWALKS AND CONFORM TO APPLICABLE STATE AND FEDERAL BARRIER FREE DESIGN STANDARDS.
- ADA ENTRANCES ARE TO CONFORM TO THE ACCESSIBILITY STANDARDS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT.
- ALL WALKWAYS TO HAVE A MAXIMUM CROSS SLOPE OF 2% AND RUNNING SLOPE OF 5% UNLESS OTHERWISE NOTED.
- ALL GRADING WITHIN GRASSED AREAS TO BE A MINIMUM OF 2% AND A MAXIMUM OF 3:1 (3 HORIZONTAL, 1 VERTICAL) SLOPE UNLESS OTHERWISE NOTED.
- ALL GRADING IN PAVEMENT AREAS SHALL BE GREATER THAN 1% UNLESS OTHERWISE NOTED.
- POSITIVE DRAINAGE TO BE MAINTAINED FROM ALL BUILDINGS IN ACCORDANCE WITH APPLICABLE REGULATIONS AND BUILDING CODE.
- ALL IMPORTED SOILS MUST BE CERTIFIED CLEAN FILL IN ACCORDANCE WITH THE NJDEP TECHNICAL REQUIREMENTS NJAC 7:26E. IMPORTED SOILS SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT. ALL IMPORTED MATERIAL REQUIRES APPROVAL BY OWNER PRIOR TO PLACEMENT ONSITE.
- ALL GRASSED AREAS TO HAVE A MINIMUM OF 4" CLEAN TOP SOIL, WHEN SOD IS BEING INSTALLED, OR 6" CLEAN TOP SOIL FOR SEEDING APPLICATIONS.
- ALL CONTRACTORS MUST CALL THE NEW JERSEY ONE CALL SYSTEM (800-272-4000) IN ACCORDANCE WITH THE UNDERGROUND FACILITIES CONTROL ACT LAW PRIOR TO ANY SUBSURFACE ACTIVITY.

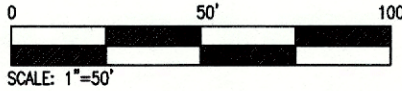
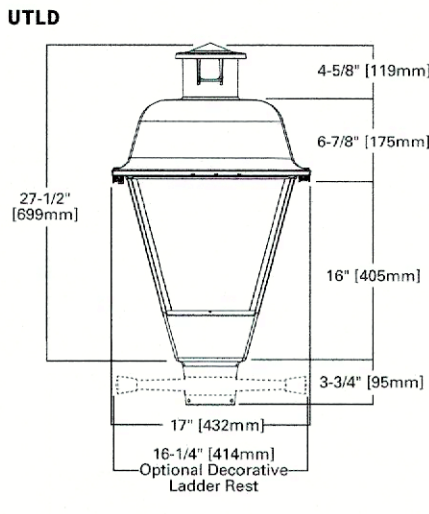


DESIGNED BY:	REVIEWED BY:	RELEASED BY:	NO.	DESCRIPTION	DATE	DES.	REV.	REL.
PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24060440500  08/07/2023 DATE								
 WATERMEN LLC 3107 ATLANTIC AVENUE PO BOX 309 ALLENDALE, NJ 07009 NJ Certificate of Authorization #240632620900 REG. #0025240503								
GRADING PLAN			ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS					
			SITUATED IN CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY					
PROJECT NUMBER:								
DATE: 08/07/2023								
SCALE: AS SHOWN								
SHEET 7 OF 16								



MATCH LINE — SHEET 9

Product Family	Configuration	Wattage Bucket	Color Temperature	Voltage	Distribution	Lens	Finish
UTLD-Traditionaire™ LED Downlight	PA1-3mm Mount Rectangle (24 LED)	20-20W	2400-3000K, 4000K	120VAC 2-120VAC #480VAC 9-24VAC	T24-Type II Union T2-Type II T4M-Type IV Wide SWQ-Type V Square Wide SLD-Type III w/ Split Control	Black-Grey (No Lens) A-Reflective Lens Panels* Q-Clear Lens Panel* PP-Frosted Lens Panel* TL-Textured Lens Panel*	BB-Black
		30-30W	2277-7000K, 2700K*				AP-Grey
		40-40W	2577-8500K, 2700K*				BL-Black
		50-50W	7380-7000K, 3000K*				AP-White
		60-60W	2580-7000K, 3000K*				BL-Black
		70-70W	7380-7000K, 3000K*				WH-White
		80-80W					AP-Grey
		90-90W					BL-Black
		100-100W					WH-White
							AP-Grey



GENERAL NOTES:
1. ALL PARKING LOT AND ENTRANCE DRIVEWAY LIGHTS TO BE STREETWORKS UTLD TRADITIONAIRE MODEL AS MANUFACTURED BY COOPER LIGHTING SOLUTIONS.

LIGHTING DETAIL & SPECIFICATION

NOT TO SCALE

Luminaire Schedule		Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
Symbol	Qty								
⬢	12	B	Single	UTLD-PA1-40-740-U-T4W		1.000	5196	40	480
⬢	16	A	Single	UTLD-PA1-40-740-U-SL3		1.000	5065	40	640
⬢	5	C	Single	UTLD-PA1-40-740-U-5WQ		1.000	5405	40	200

UTILITY & LIGHTING PLAN-1

ESSEX COUNTY COUNTRY CLUB
IMPROVEMENTS

SITUATED IN
CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

PROJECT NUMBER:

DATE: 08/07/2023

SCALE: AS SHOWN

SHEET 8 OF 16



PAUL T. CALABRESE, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24GE0480500

08/07/2023
DATE

DESIGNED BY

REVIEWED BY

RELEASED BY

NO
DESCRIPTION
REVISIONS

DATE
DES.
REV.
REL.



MATCH LINE — SHEET 8

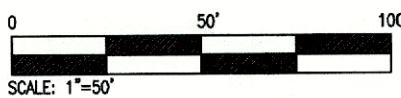
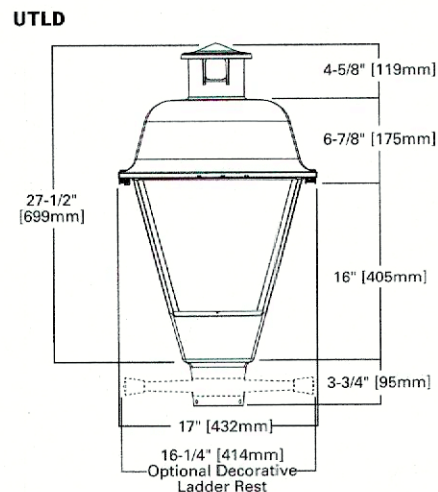
Product Family	Configuration	Wattage Bucket	Color Temperature	Voltage	Distribution	Lens	Finish
UTLD-Traditionaire™ LED Downlight	PA1-Down Mount Rectangle (24 LED)	25-29W*	740-700K, 4000K	Bi-Universal (120-277V)	T20-Type II Urban T3-Type III T4-Type IV Wide T5-Type V Square Hole SL3-Type VI w/ Spill Control	Blank-Open (No Lens) A-Reflective Lens Panels* G-Clear Lens Panels* PP-Frosted Lens Panels* H-Textured Lens Panels*	BK-Black AP-Grey W-White
		30-35W	727-700K, 2700K*				
		40-45W	827-800K, 2700K*				
		50-55W	720-700K, 3000K*				
		60-65W	720-700K, 3000K*				
		70-75W	800-800K				
		80-85W					
		90-95W					
		100-105W					
			AMB-Amber 5000m				

GENERAL NOTES:
1. ALL PARKING LOT AND ENTRANCE DRIVEWAY LIGHTS TO BE STREETWORKS UTLD TRADITIONAIRE MODEL AS MANUFACTURED BY COOPER LIGHTING SOLUTIONS.

LIGHTING DETAIL & SPECIFICATION

NOT TO SCALE

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens
□	12	B	Single	UTLD-PA1-40-740-U-T4W		1.000	5196
□	16	A	Single	UTLD-PA1-40-740-U-SL3		1.000	5065
□	5	C	Single	UTLD-PA1-40-740-U-5WQ		1.000	5405
						Luminaire Watts	Total Watts
						40	480
						40	640
						40	200



UTILITY & LIGHTING PLAN-2

ESSEX COUNTY COUNTRY CLUB
IMPROVEMENTS

CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

PROJECT NUMBER:

DATE: 08/07/2023

SCALE: AS SHOWN

SHEET 9 OF 16



NY Certificate of Authorization #24032829001
EIN: 28-8524533

PAUL T. CALABRESE, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24064486500

DATE

RELEASED BY:

REVIEWED BY:

DESIGNED BY:

REVISIONS

DESCRIPTION

DATE

DES.

REV.

NO.

REL.

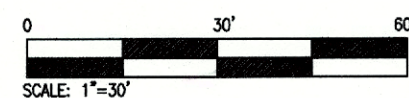
NEW JERSEY STATE PLANE COORDINATE SYSTEM AND AZ

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LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
BOUNDARY LINE	BOUNDARY LINE	MANHOLE	MANHOLE
LOT LINE	LOT LINE	RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE
SETBACK LINE	SETBACK LINE	RESET MANHOLE	RESET MANHOLE
CURB LINE	CURB LINE	HEADWALL	HEADWALL
DEPRESSED CURB	DEPRESSED CURB	FLARED END SECTION	FLARED END SECTION
EDGE OF PAVEMENT	EDGE OF PAVEMENT	CLEANOUT	CLEANOUT
PAINT LINE	PAINT LINE	DOWNSPOUT	DOWNSPOUT
CONCRETE	CONCRETE	WATER MAIN	WATER MAIN
FENCE	FENCE	WATER VALVE	WATER VALVE
GUIDE RAIL	GUIDE RAIL	WATER VALVE RESET	WATER VALVE RESET
RETAINING WALL/BULKHEAD	RETAINING WALL/BULKHEAD	WATER METER	WATER METER
TREE LINE	TREE LINE	FIRE HYDRANT	FIRE HYDRANT
CONTOURS	CONTOURS	GAS MAIN	GAS MAIN
MINOR	MINOR	GAS VALVE	GAS VALVE
MAJOR	MAJOR	GAS VALVE RESET	GAS VALVE RESET
SPOT ELEVATION	SPOT ELEVATION	GAS METER	GAS METER
HIGH POINT ELEVATION	HIGH POINT ELEVATION	UTILITY POLE	UTILITY POLE
LOW POINT ELEVATION	LOW POINT ELEVATION	GUY ANCHOR	GUY ANCHOR
GUTTER ELEVATION	GUTTER ELEVATION	LIMIT OF DISTURBANCE	LIMIT OF DISTURBANCE
TOP OF CURB ELEVATION	TOP OF CURB ELEVATION	SILT FENCE	SILT FENCE
GRATE ELEVATION	GRATE ELEVATION	SNOW FENCE	SNOW FENCE
RIM ELEVATION	RIM ELEVATION	INLET PROTECTION	INLET PROTECTION
TW 100.00	TW 100.00	CONSTRUCTION ENTRANCE	CONSTRUCTION ENTRANCE
BW 98.00	BW 98.00	STOCK PILE	STOCK PILE
BB 95.00	BB 95.00	PROPOSED TREE PROTECTION	PROPOSED TREE PROTECTION
FF 98.00	FF 98.00		
GF 95.00	GF 95.00		
DRAINAGE FLOW DIRECTION	DRAINAGE FLOW DIRECTION		
STORM DRAIN	STORM DRAIN		
INLET	INLET		
DOUBLE INLETS	DOUBLE INLETS		
RECONSTRUCT INLET	RECONSTRUCT INLET		
RESET INLET	RESET INLET		



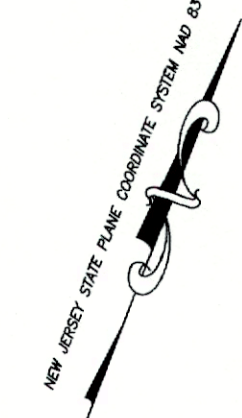
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PAUL T. CALABRESE, P.E.		NEW JERSEY PROFESSIONAL ENGINEER		LICENSE NO. 2460448600													
08/07/2023		DATE															
3107 ATLANTIC AVENUE		PO BOX 509		ELIZABETH, NJ 07208													
3107 ATLANTIC AVENUE		PO BOX 509		ELIZABETH, NJ 07208													
SOIL EROSION & SEDIMENT CONTROL PLAN-1		ESSEX COUNTY COUNTRY CLUB		IMPROVEMENTS													
PROJECT NUMBER:		DATE:		08/07/2023													
SCALE:		AS SHOWN															
SHEET 10		OF		16													



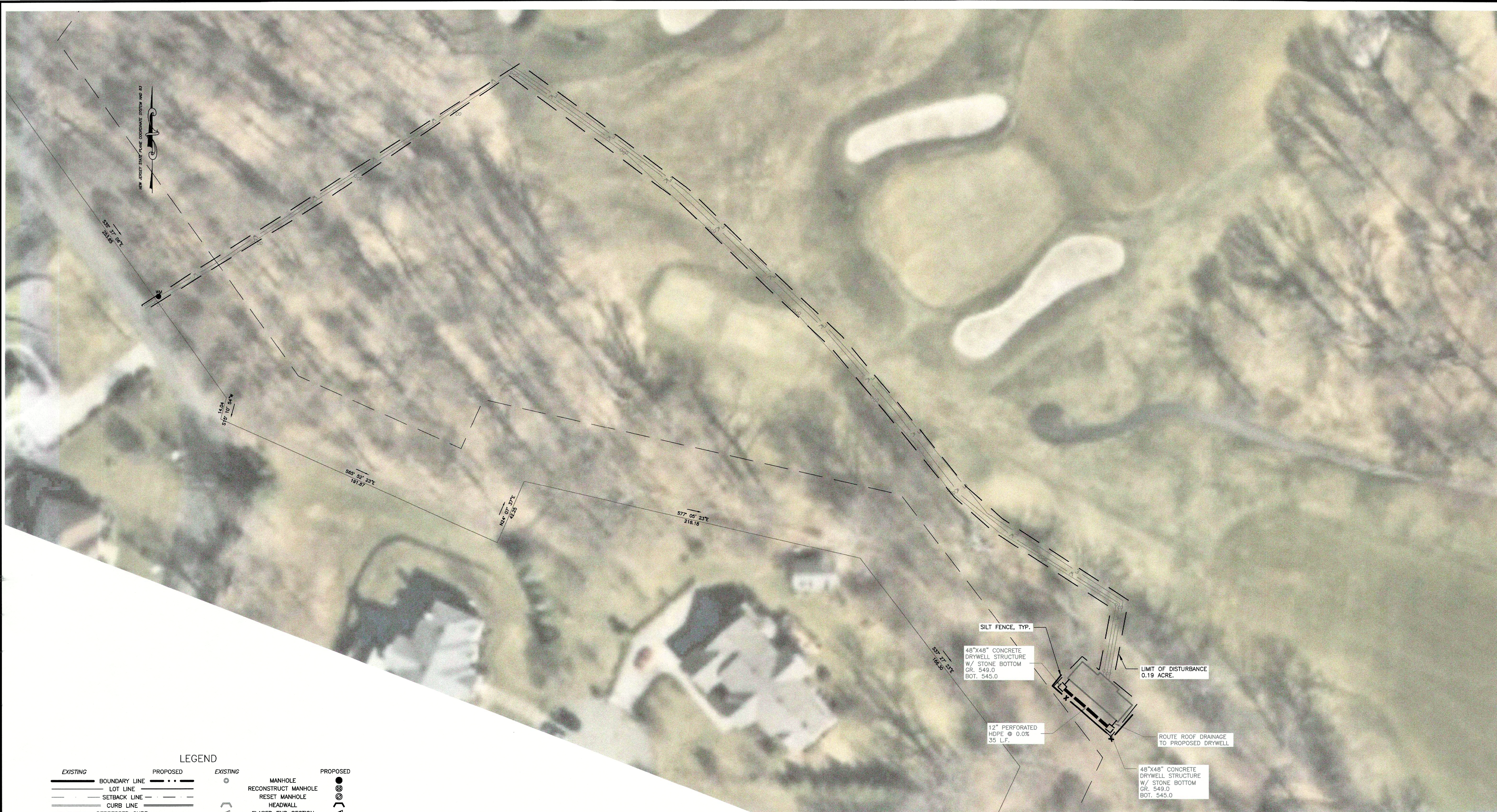
LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
BOUNDARY LINE	BOUNDARY LINE	MANHOLE	MANHOLE
LOT LINE	LOT LINE	RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE
SETBACK LINE	SETBACK LINE	RESET MANHOLE	RESET MANHOLE
CURB LINE	CURB LINE	HEADWALL	HEADWALL
DEPRESSED CURB	DEPRESSED CURB	FLARED END SECTION	FLARED END SECTION
EDGE OF PAVEMENT	EDGE OF PAVEMENT	CLEANOUT	CLEANOUT
PAINT LINE	PAINT LINE	DOWNSPOUT	DOWNSPOUT
CONCRETE	CONCRETE	WATER MAIN	WATER MAIN
FENCE	FENCE	WATER VALVE	WATER VALVE
GUIDE RAIL	GUIDE RAIL	WATER VALVE RESET	WATER VALVE RESET
RETAINING WALL/BULKHEAD	RETAINING WALL/BULKHEAD	WATER METER	WATER METER
TREE LINE	TREE LINE	FIRE HYDRANT	FIRE HYDRANT
CONTOURS	CONTOURS	GAS MAIN	GAS MAIN
MINOR	MINOR	GAS VALVE	GAS VALVE
MAJOR	MAJOR	GAS VALVE RESET	GAS VALVE RESET
SPOT ELEVATION	SPOT ELEVATION	GAS METER	GAS METER
HIGH POINT ELEVATION	HIGH POINT ELEVATION	UTILITY POLE	UTILITY POLE
LOW POINT ELEVATION	LOW POINT ELEVATION	GUY ANCHOR	GUY ANCHOR
GUTTER ELEVATION	GUTTER ELEVATION	LIMIT OF DISTURBANCE	LIMIT OF DISTURBANCE
TOP OF CURB ELEVATION	TOP OF CURB ELEVATION	SILT FENCE	SILT FENCE
GRATE ELEVATION	GRATE ELEVATION	SNOW FENCE	SNOW FENCE
RIM ELEVATION	RIM ELEVATION	INLET PROTECTION	INLET PROTECTION
TOP OF WALL	TOP OF WALL	CONSTRUCTION ENTRANCE	CONSTRUCTION ENTRANCE
BOTTOM OF WALL	BOTTOM OF WALL	STOCK PILE	STOCK PILE
BOTTOM OF BLOCK	BOTTOM OF BLOCK	PROPOSED TREE PROTECTION	PROPOSED TREE PROTECTION
FINISHED FLOOR ELEV.	FINISHED FLOOR ELEV.		
GARAGE FLOOR ELEV	GARAGE FLOOR ELEV		
DRAINAGE FLOW DIRECTION	DRAINAGE FLOW DIRECTION		
STORM DRAIN	STORM DRAIN		
DOUBLE INLETS	DOUBLE INLETS		
RECONSTRUCT INLET	RECONSTRUCT INLET		
RESET INLET	RESET INLET		

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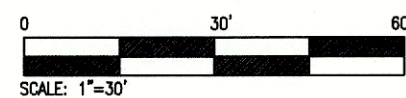


PROJECT NUMBER:		DATE: 08/07/2023		SCALE: AS SHOWN	
SHEET 11 OF 16					
SOIL EROSION & SEDIMENT CONTROL PLAN-2					
ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS					
SITUATED IN CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY					
DESIGNED BY: PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 3402440500		REVIEWED BY: [Signature]		RELEASED BY: [Signature]	
DATE: 08/07/2023		DATE: 08/07/2023		DATE: 08/07/2023	
NO.		NO.		NO.	
DESCRIPTION		DESCRIPTION		DESCRIPTION	
REVISIONS		REVISIONS		REVISIONS	
REV.		REV.		REV.	
BY		BY		BY	
DATE		DATE		DATE	
NO.		NO.		NO.	
DESCRIPTION		DESCRIPTION		DESCRIPTION	
REVISIONS		REVISIONS		REVISIONS	
REV.		REV.		REV.	
BY		BY		BY	
DATE		DATE		DATE	
NO.		NO.		NO.	
DESCRIPTION		DESCRIPTION		DESCRIPTION	
REVISIONS		REVISIONS		REVISIONS	
REV.		REV.		REV.	
BY		BY		BY	
DATE		DATE		DATE	
NO.		NO.		NO.	
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BY		BY		BY	
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NO.		NO.		NO.	
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REVISIONS		REVISIONS		REVISIONS	
REV.		REV.		REV.	
BY		BY		BY	
DATE		DATE		DATE	
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DESCRIPTION		DESCRIPTION		DESCRIPTION	
REVISIONS		REVISIONS		REVISIONS	
REV.		REV.		REV.	
BY		BY		BY	
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BY		BY		BY	
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LEGEND	
EXISTING	PROPOSED
BOUNDARY LINE	LOT LINE
SETBACK LINE	CURB LINE
DEPRESSED CURB	EDGE OF PAVEMENT
PAINT LINE	CONCRETE
FENCE	GUIDE RAIL
RETAINING WALL/BULKHEAD	TREE LINE
CONTOURS	MINOR
MAJOR	SPOT ELEVATION
HIGH POINT ELEVATION	HP
LOW POINT ELEVATION	LP
GUTTER ELEVATION	G
TOP OF CURB ELEVATION	TC
GRATE ELEVATION	GR
RIM ELEVATION	RIM
TOP OF WALL	TW
BOTTOM OF WALL	BW
BOTTOM OF BLOCK	BB
FINISHED FLOOR ELEV.	FF
GARAGE FLOOR ELEV	GF
DRAINAGE FLOW DIRECTION	STORM DRAIN
INLET	DOUBLE INLETS
RECONSTRUCT INLET	RESET INLET
MANHOLE	RECONSTRUCT MANHOLE
RESET MANHOLE	HEADWALL
FLARED END SECTION	CLEANOUT
DOWNSPOUT	WATER MAIN
WATER VALVE	WATER VALVE RESET
WATER METER	FIRE HYDRANT
GAS MAIN	GAS VALVE
GAS VALVE RESET	GAS METER
UTILITY POLE	GUY ANCHOR
LIMIT OF DISTURBANCE	SILT FENCE
SNOW FENCE	INLET PROTECTION
CONSTRUCTION ENTRANCE	STOCK PILE
PROPOSED TREE PROTECTION	

NOTES:
1. EXISTING CONDITIONS SHOWN ARE BASED UPON 2014 USGS CMGP LIDAR; POST SANDY(NEW JERSEY)
CONTOURS PROVIDED BY THE NATIONAL OCEANIC ATMOSPHERE ADMINISTRATION (NOAA).



DESIGNED BY		REVIEWED BY		RELEASED BY	
PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE00480500		[Signature]		[Signature]	
DATE		DATE		DATE	
08/07/2023		08/07/2023		08/07/2023	
NO.		NO.		NO.	
DESCRIPTION		DESCRIPTION		DESCRIPTION	
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REL.		REL.		REL.	

WATERMEN LLC
3107 ATLANTIC AVENUE
PO BOX 309
ALLENWOOD, NJ 08820
Tel: 908-225-6503
NJ Certificate of Authorization #24GAC26000

SOIL EROSION & SEDIMENT CONTROL PLAN-3

ESSEX COUNTY COUNTRY CLUB
IMPROVEMENTS

SITUATED IN
CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

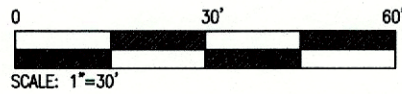
PROJECT NUMBER:
DATE: 08/07/2023
SCALE: AS SHOWN

SHEET 12 OF 16

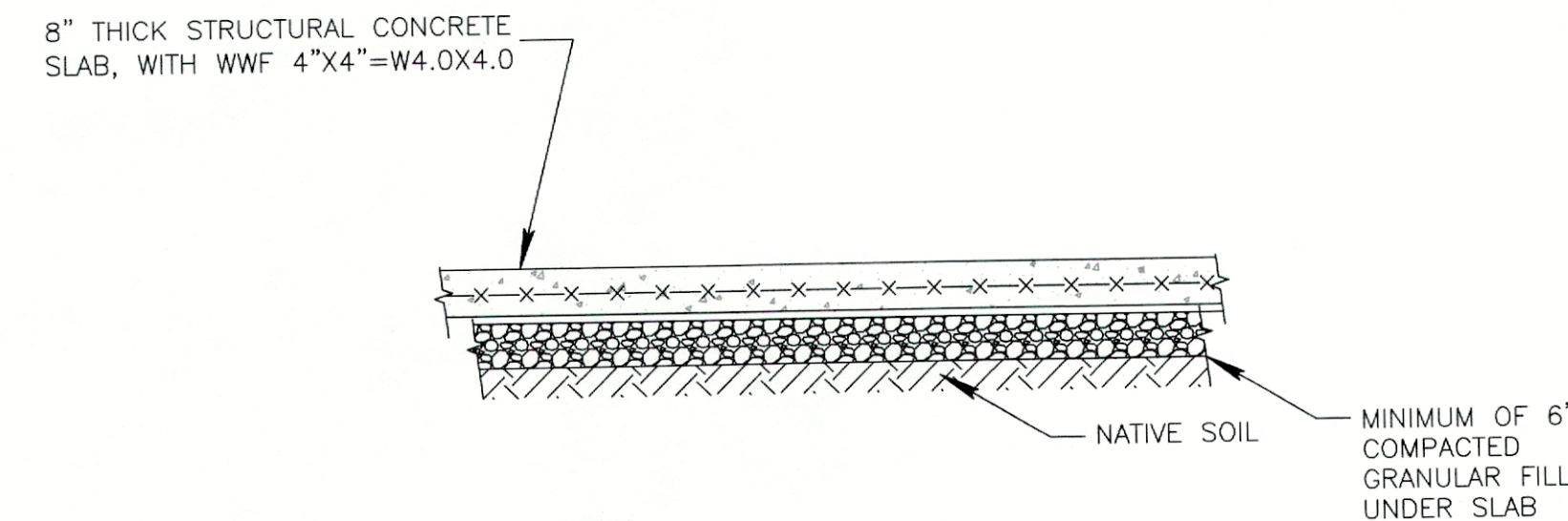
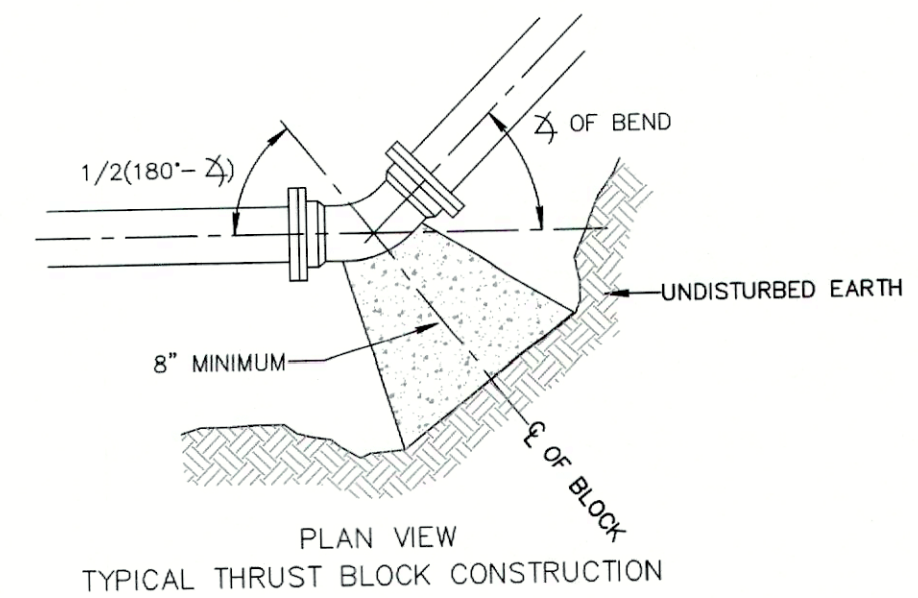
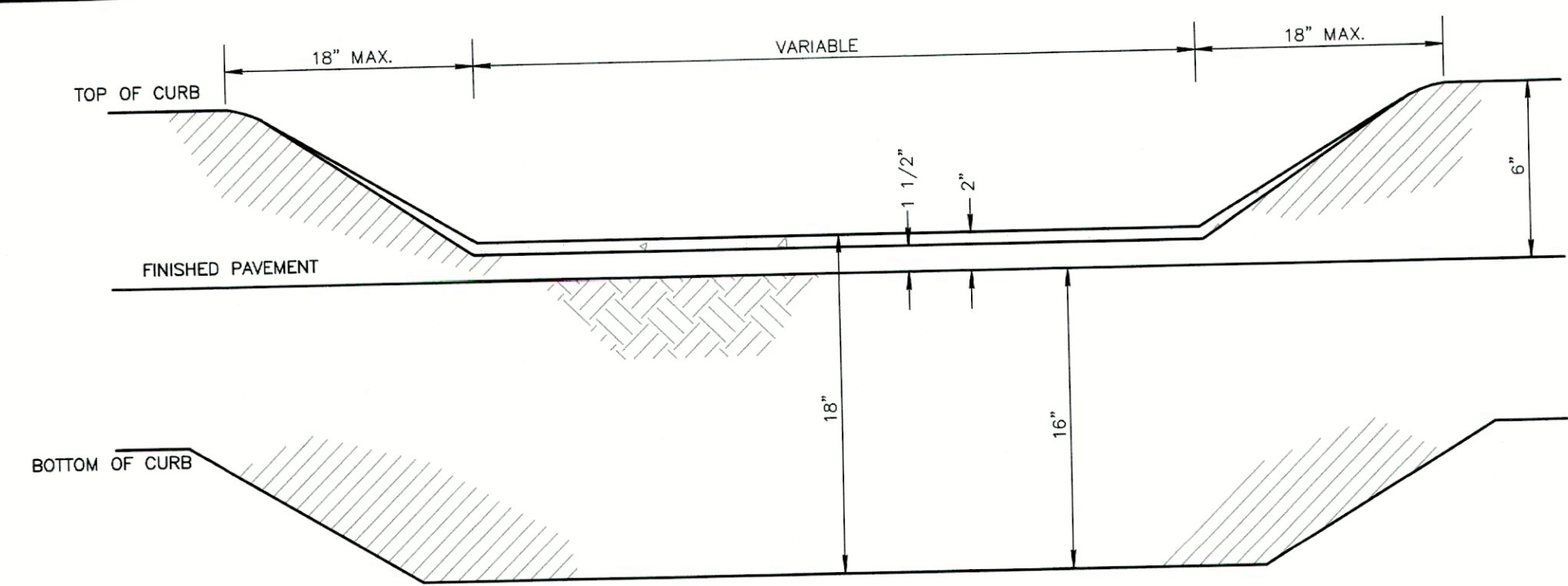
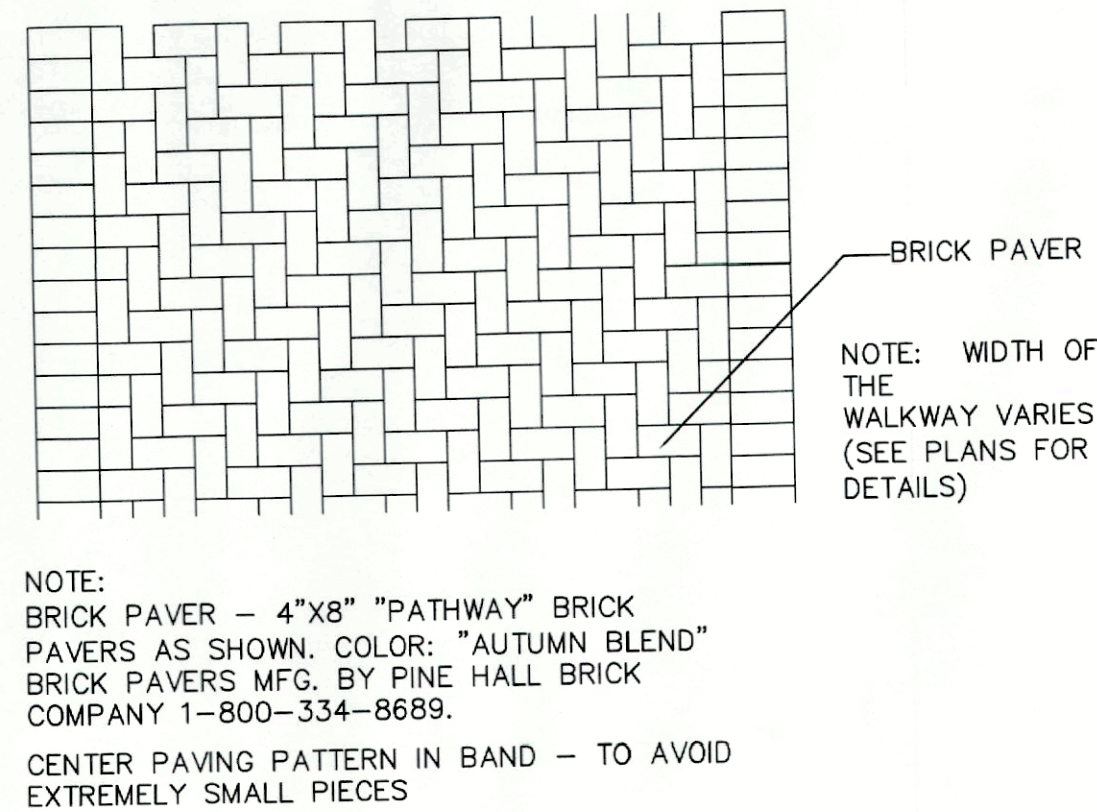
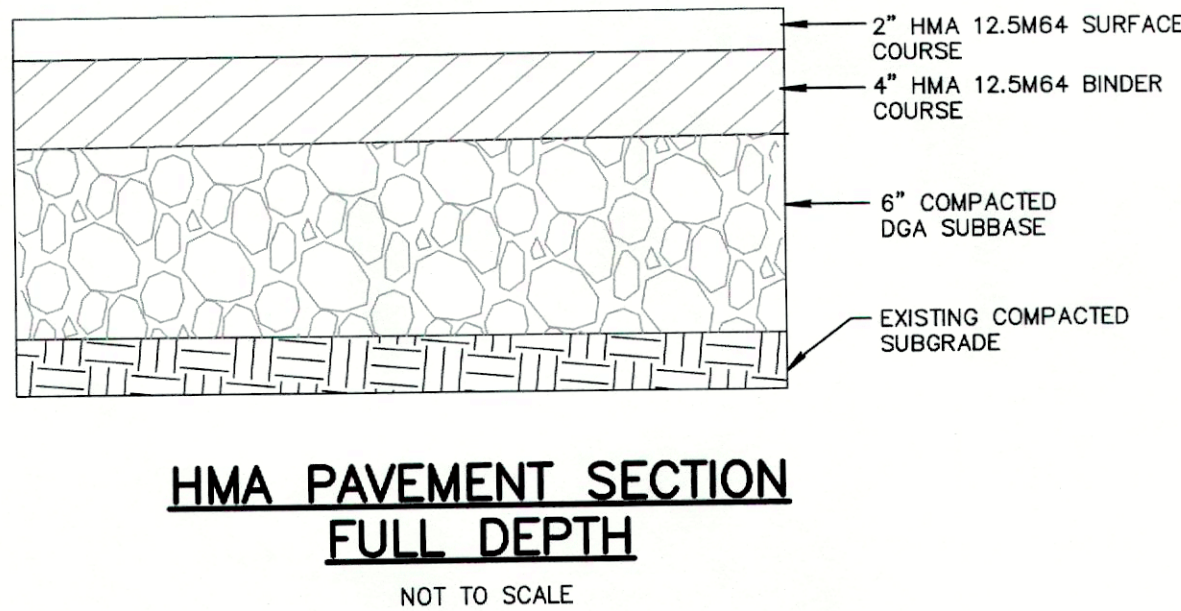


LEGEND	
EXISTING	PROPOSED
BOUNDARY LINE	LOT LINE
SETBACK LINE	CURB LINE
DEPRESSED CURB	EDGE OF PAVEMENT
PAINT LINE	CONCRETE
FENCE	GUIDE RAIL
RETAINING WALL/BULKHEAD	TREE LINE
CONTOURS	MINOR
MAJOR	SPOT ELEVATION
HP 56.00	HP 56.50
LP 55.50	LP 55.50
G 56.00	G 56.00
TC 105.17	TC 105.17
GR 104.50	GR 104.50
RIM 100.00	RIM 100.00
TW 100.00	TW 100.00
BW 98.00	BW 98.00
BB 95.00	BB 95.00
FF 95.00	FF 95.00
GF 95.00	GF 95.00
DRAINAGE FLOW DIRECTION	STORM DRAIN
INLET	DOUBLE INLETS
RECONSTRUCT INLET	RESET INLET
MANHOLE	RECONSTRUCT MANHOLE
RESET MANHOLE	HEADWALL
FLARED END SECTION	CLEANOUT
DOWNSPOUT	WATER MAIN
WATER VALVE	WATER VALVE RESET
WATER METER	FIRE HYDRANT
GAS MAIN	GAS VALVE
GAS VALVE RESET	GAS METER
UTILITY POLE	GUY ANCHOR
LIMIT OF DISTURBANCE	SILT FENCE
SNOW FENCE	INLET PROTECTION
CONSTRUCTION ENTRANCE	STOCK PILE
PROPOSED TREE PROTECTION	

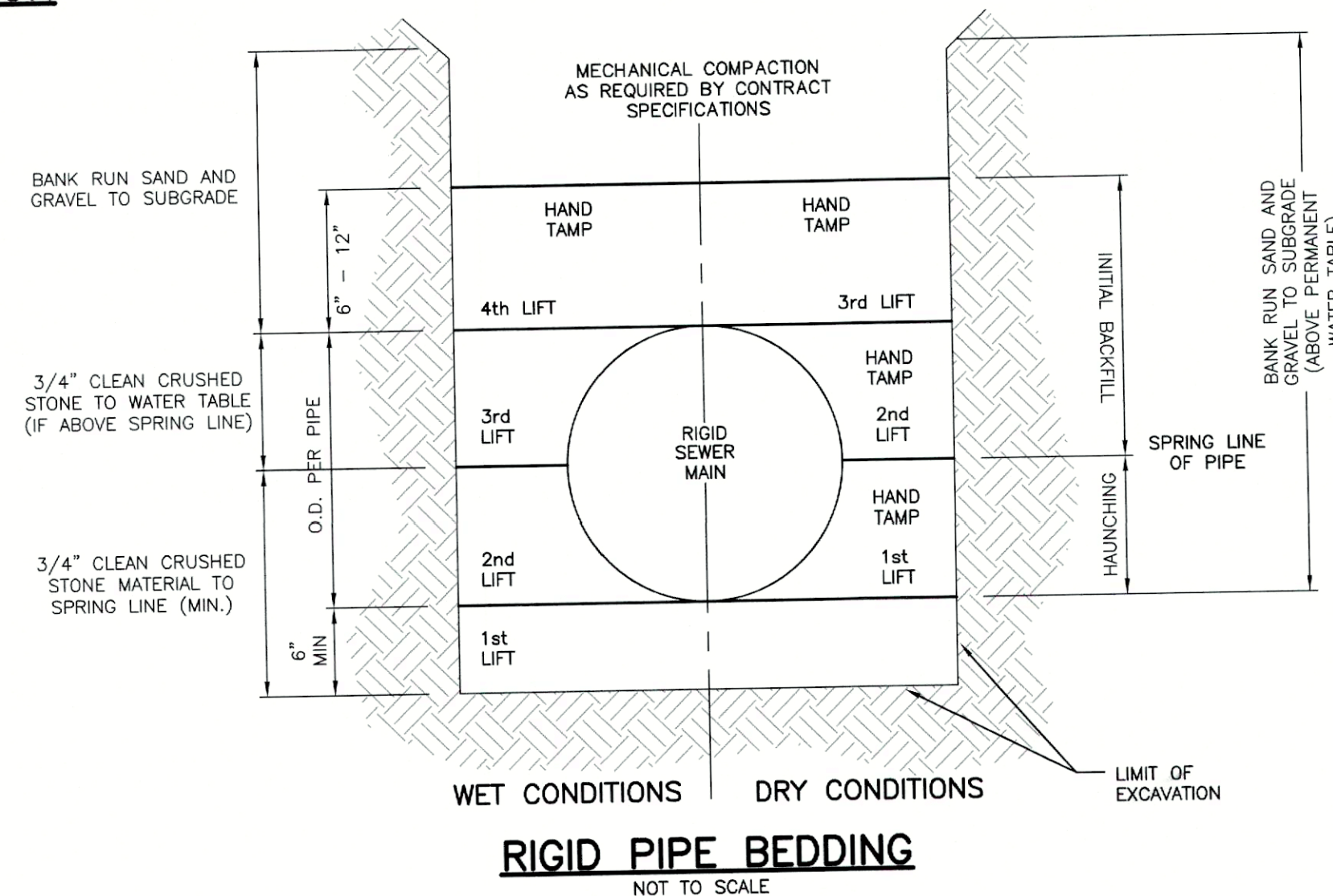
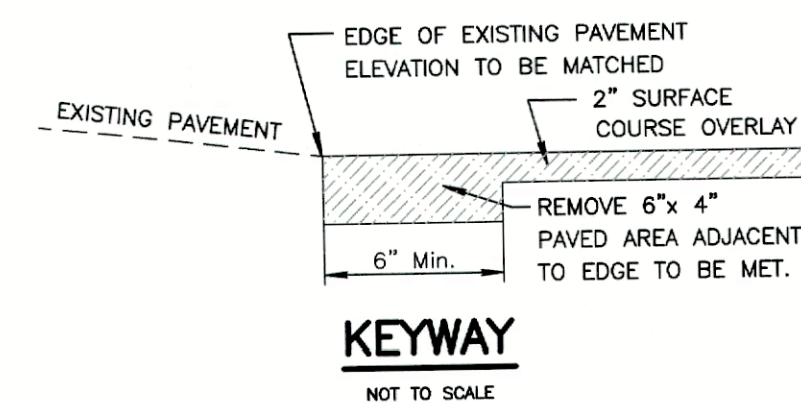
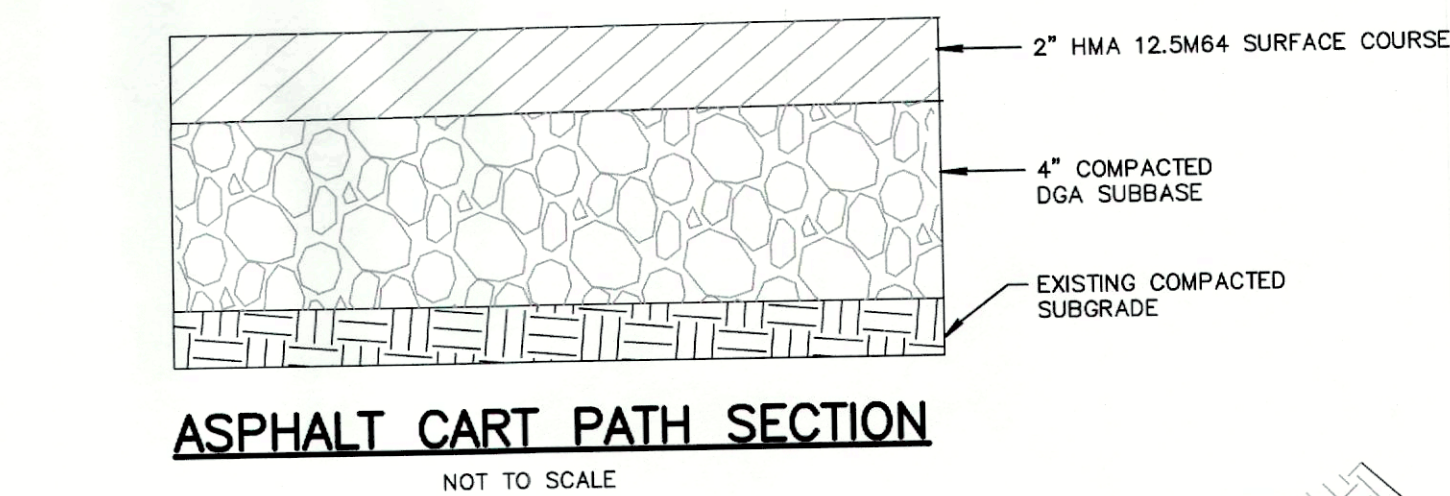
NOTES:
1. EXISTING CONDITIONS SHOWN ARE BASED UPON 2014 USGS CMGP LIDAR: POST SANDY(NEW JERSEY)
CONTOURS PROVIDED BY THE NATIONAL OCEANIC ATMOSPHERE ADMINISTRATION (NOAA).

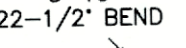
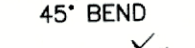
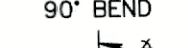
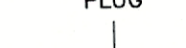


SOIL EROSION & SEDIMENT CONTROL PLAN-4		PROJECT NUMBER:	
ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS		DATE: 08/07/2023	
CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY		SCALE: AS SHOWN	
SITUATED IN		SHEET 13 OF 16	
PAUL T. CALABRESE, P.E. NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24G00480500		DESIGNED BY: REVIEWED BY: RELEASED BY:	
08/07/2023 DATE		NO NO NO	
DESCRIPTION		REV.:	
REVISIONS		DATE: DIS: REV: REL:	
WATERMEN LLC 3107 ATLANTIC AVENUE PO BOX 509 ALLENWOOD, NJ 08729 Tel: 908-226-4500 NJ Certificate of Authorization #24G0326900			



- NOTES:
1. NATIVE SOIL OR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. REMOVE ORGANIC MATERIAL.
 2. BROOM FINISH UNLESS NOTED OTHERWISE.
 3. PROVIDE 12X12 HAUNCH AT ALL EDGES WITH (2) #4 TOP AND BOTTOM UNLESS OTHERWISE INDICATED.
 4. CONTRACTION JOINT MAXIMUM SPACING = 5'-0" EXPANSION JOINT MAXIMUM SPACING = 20'-0".



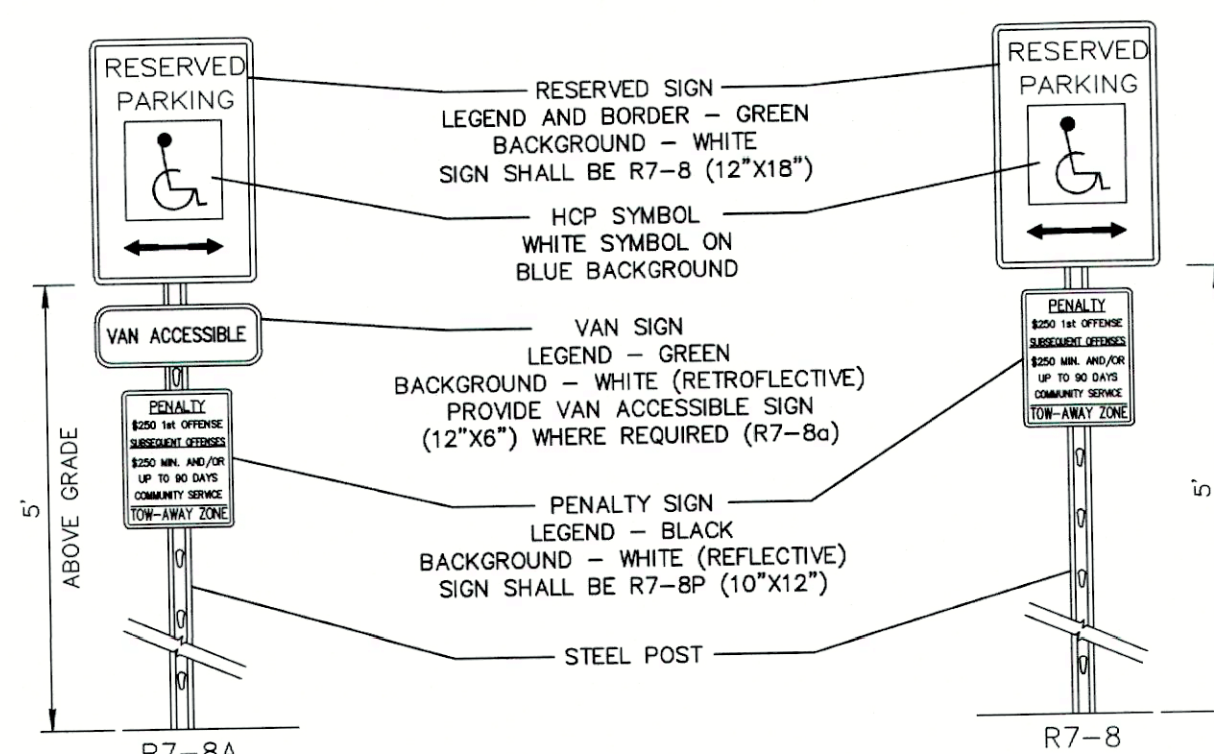
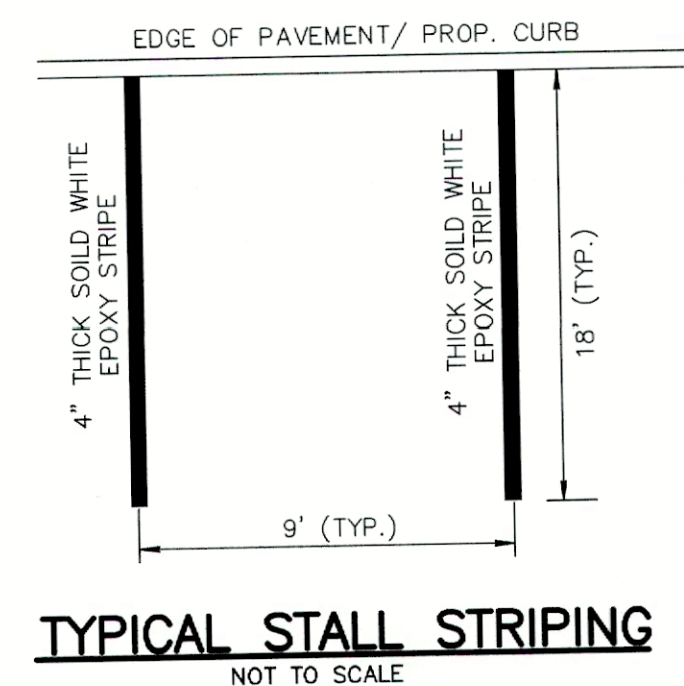
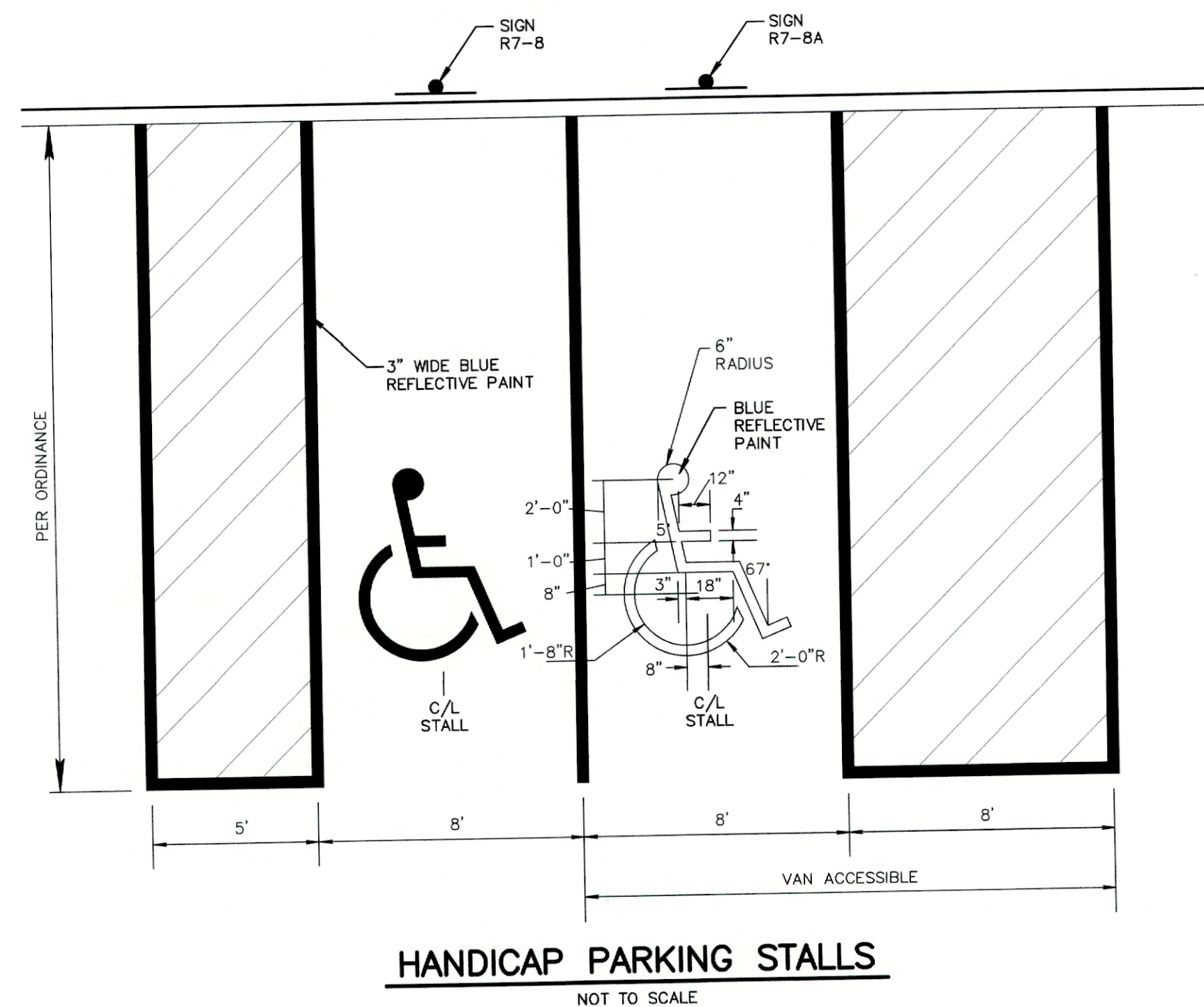
DIAMETER OF PIPE	5° TO 22-1/2° BEND	23° TO 45° BEND	45° TO 90° BEND	TEE CONNECTION	PLUG
					
6"	1.1	2.1	4.0	2.9	2.9
8"	2.0	3.7	7.1	5.0	5.0
10"	3.1	5.8	11.1	7.9	7.9
12"	4.4	8.4	16.0	11.3	11.3

A = CONTACT BEARING AREA OF THRUST BLOCK WITH EARTH, IN SQUARE FEET

NOTES:

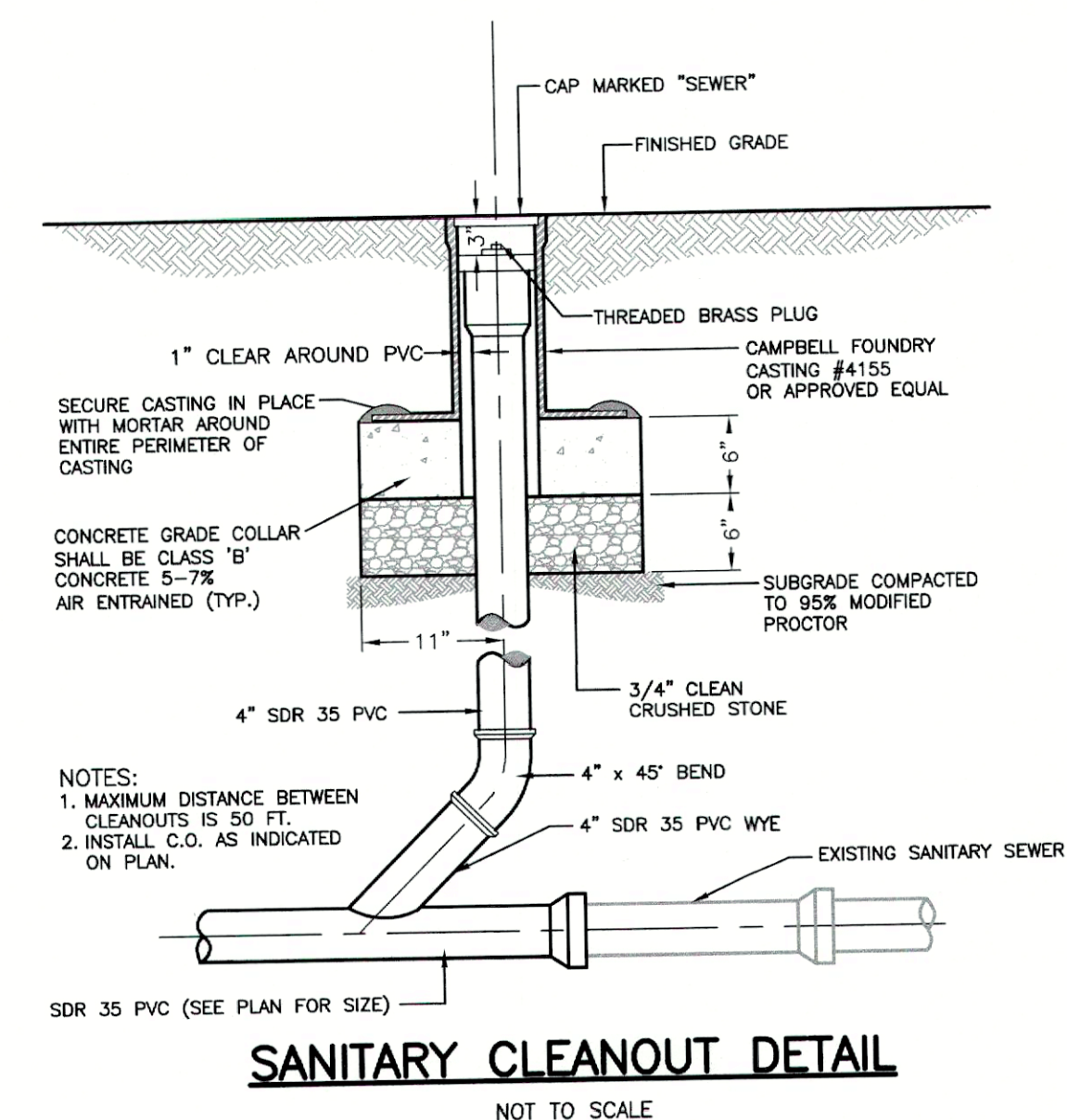
1. BEARING AREAS ARE BASED ON AN INTERNAL PIPE PRESSURE OF UP TO 200 PSI AND UNDISTURBED SOIL WITH A BEARING CAPACITY OF 2000 PSF. FOR A GREATER INTERNAL PRESSURE OR A LESSER SOIL BEARING CAPACITY, THESE AREAS SHALL BE INCREASED ACCORDINGLY.
2. ALL CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED OF NDOT CLASS C CONCRETE.
3. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.
4. WIDTH OF THRUST BLOCK SHALL BE TWICE THE HEIGHT WHERE PRACTICAL.

TABLE OF THRUST BLOCKS FOR HORIZONTAL BENDS
FOR PRESSURES UP TO 200 P.S.I.
NOT TO SCALE



- GENERAL NOTES:
1. ALL SIGNS SHALL BE MINIMUM 18 GAUGE STEEL WITH BAKED ON ENAMEL FINISH. PROVIDE WITH PRE-PUNCHED MOUNTING HOLES.
 2. POSTS: 2" STEEL U-CHANNEL BREAKAWAY POST
 3. SIGNS AND POSTS SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES.

HANDICAP PARKING SIGNS AND POSTS

[illegible]

PAUL T. CALABRESE, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24GE04480500

DATE 08/07/2023



3107 ATLANTIC AVENUE
PO BOX 309
LUFKENSWOOD NJ 08720
NJ Certificate of Authorization #24GA28226900
Tel.: 908-229-6303

CONSTRUCTION DETAILS-1

ESSEX COUNTY COUNTRY CLUB IMPROVEMENTS

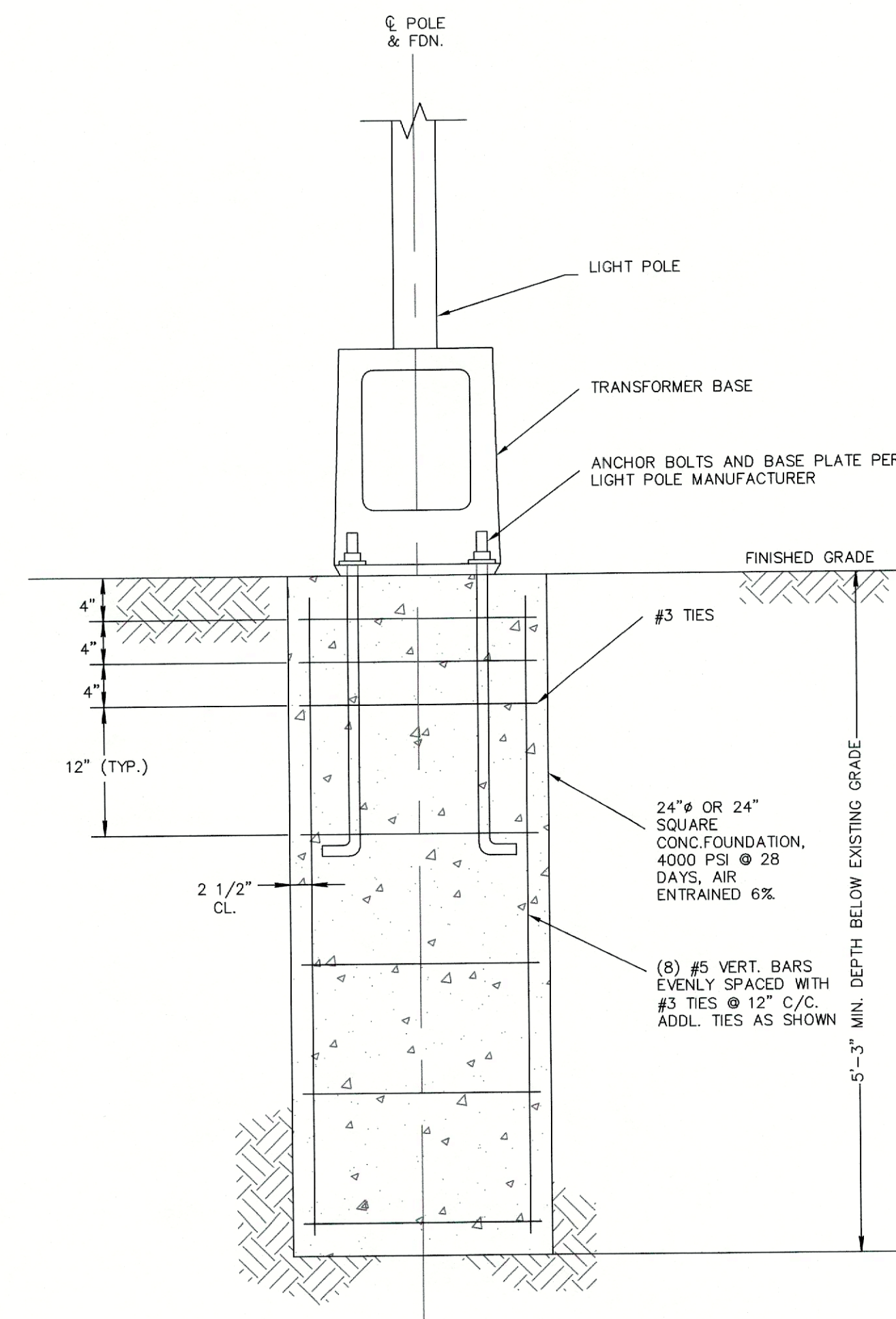
SITUATED IN
CITY OF WEST ORANGE ESSEX COUNTY, NEW JERSEY

PROJECT NUMBER:

DATE: 08/07/2023

SCALE: AS SHOWN

SHEET **14** OF 16



LIGHT POLE FOUNDATION
NOT TO SCALE

STANDARD SANITARY HOUSE LATERAL
NOT TO SCALE

PIPE BEDDING, TRENCH BACKFILL &
MUNICIPAL ROADWAY PAVEMENT REPAIR

DRYWELL
NOT TO SCALE

PARKING ISLAND SUMP DRAIN DETAIL

NOT TO SCALE

PAUL T. CALABRESE, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. 24GE04480500

DATE: 07/2023



44107 ATLANTIC AVENUE

CONSTRUCTION DETAILS-2

SITUATED IN
CITY OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

Plotted: 8/22/2023 6:28 PM, By: Nicholas DeCotis
C:\Users\ndecotis\Dropbox\Essex County CC\DWG\Construction Plan\Plot Sheet\Soil Erosion & Sediment Control Details recover.dwg;C-501

HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT (HEPSCD) SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL," 7TH EDITION LAST REVISED JULY 2017. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- MUL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
- SEEDING DATES: THE FOLLOWING SEEDING DATES ARE BEST RECOMMENDED TO ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD:
SPRING - 3/15-5/15 AND FALL - 8/15-10/1.
- SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS. SEDIMENT FENCES SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
- MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRASS STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX: (973) 364-0784 OR EMAIL: INFORMATION@HEPSCD.ORG.
- THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, N.J.A.C. OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 973-364-0786 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FARM OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.
- ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED.
- ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
- A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 1" - 2" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
- STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. LANDOWNERS INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

CONSTRUCTION SEQUENCE

EXACT TIMING FOR DEVELOPMENT OF THIS PROJECT IS NOT KNOWN AT THIS TIME. ITEMS AND DURATIONS OF CONSTRUCTION WILL OCCUR APPROXIMATELY AS FOLLOWS:

PHASE	DURATION
1. TEMPORARY SOIL EROSION FACILITIES	IMMEDIATELY
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE	IMMEDIATELY
3. INSTALL SILT FENCE	IMMEDIATELY
4. ROUGH CLEARING AND GRADING	3 WEEKS
5. CONSTRUCT STORM WATER BASIN	1 WEEK
6. TEMPORARY SEEDING	IMMEDIATELY
7. SLOPE & EMBANKMENT PROTECTION	IMMEDIATELY
8. SANITARY SEWER INSTALLATION	1 WEEK
9. STORM SEWER INSTALLATION	2 WEEKS
10. INLET PROTECTION	IMMEDIATELY
11. CURB & SIDEWALK INSTALLATION	1 WEEK
12. ROAD SUB-BASE	1 WEEK
13. MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES	CONTINUOUSLY
14. CONSTRUCTION OF THE BUILDING	4 MONTHS
15. FINAL SEEDING AND LANDSCAPING	2 WEEKS
16. FINAL PAVEMENT COURSE	1 WEEK

*TEMPORARY SEEDING SHALL ALSO BE PERFORMED WHEN NECESSARY IN ACCORDANCE WITH NOTE NO. 2 OF THE SOIL EROSION AND SEDIMENT CONTROL NOTES.

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS

- SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION. A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
- COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM IN THRESHOLDS INDICATED FOR THE EMPLOYED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) REPEAT TESTING METHODS TO ESTABLISH TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACTION TESTING METHODS

- PROBING WIRE TEST (SEE DETAIL)
- HAND-HELD PENETROMETER TEST (SEE DETAIL)
- TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.
- SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES FOR SOIL COMPACTION MITIGATION

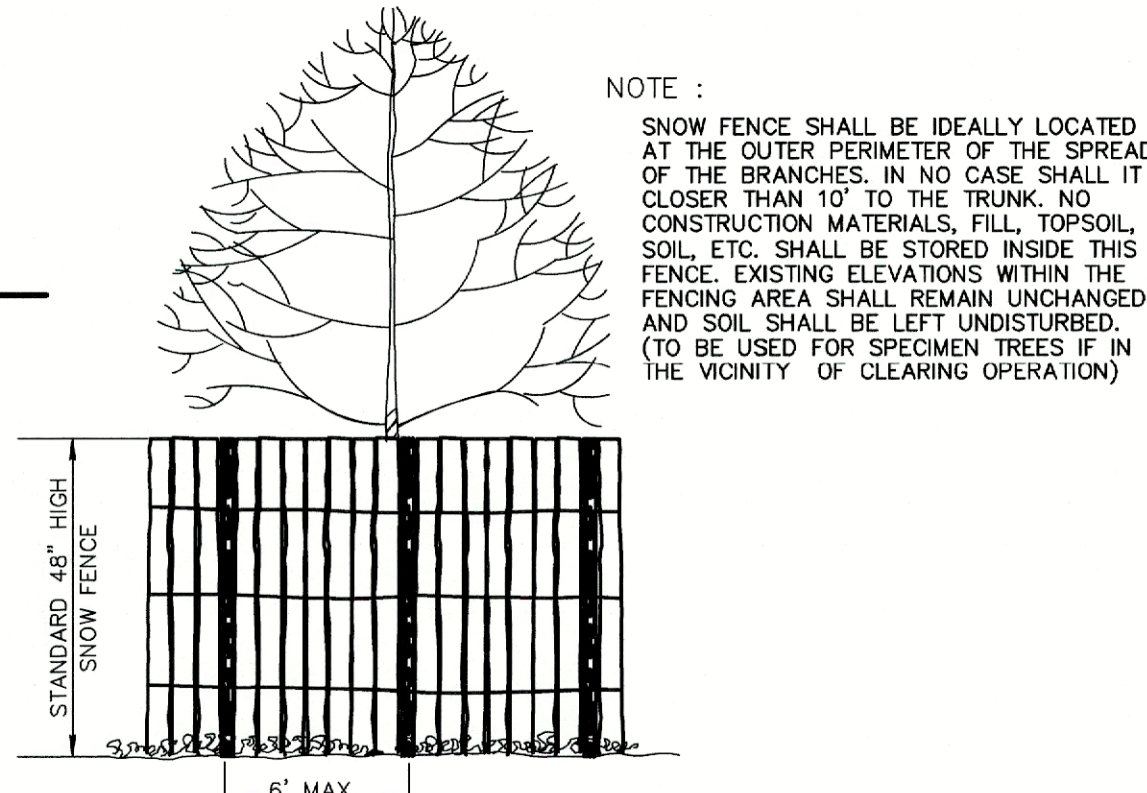
- PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

SPPP REQUIRED INSPECTIONS AND REPORTS

- ROUTINE INSPECTIONS
 - THE PERMITTEE SHALL CONDUCT AND DOCUMENT ROUTINE INSPECTIONS OF THE FACILITY TO IDENTIFY AREAS CONTRIBUTING TO THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT AND EVALUATE WHETHER THE STORMWATER POLLUTION PREVENTION PLAN (SPPP) IDENTIFIED UNDER #1 OF THE 503-CONSTRUCTION ACTIVITY STORMWATER (C) PART 1 NARRATIVE REQUIREMENTS, INCLUDING THIS SOIL EROSION AND SEDIMENT CONTROL PLAN IS BEING PROPERLY IMPLEMENTED AND MAINTAINED. IF NECESSARY, ADDITIONAL MEASURES ARE NEEDED TO IMPLEMENT THE SPPP. (ROUTINE INSPECTIONS MINIMUM WEEKLY).
 - HIGH ACID PRODUCING SOILS WITH A pH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT A RATE OF 5 TONS PER ACRE (OR 275 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 5 OR MORE EXCEPT AS FOLLOWS:
HIGH ACID PRODUCING SOILS WITH A pH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT A RATE OF 6 TONS PER ACRE (OR 275 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 5 OR MORE EXCEPT AS FOLLOWS:
THE OTHER RECORD-KEEPING REQUIREMENTS
 - CONTRACTOR SHALL KEEP THE FOLLOWING RECORDS RELATED TO CONSTRUCTION ACTIVITIES AT THE SITE:
- DATES WHEN MAJOR GRADING ACTIVITIES OCCUR AND THE AREAS WHICH WERE GRADED
- DATES AND DETAILS CONCERNING THE INSTALLATION OF STRUCTURAL CONTROLS
- DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA
- DATES WHEN AN AREA IS NO LONGER USED FOR CONSTRUCTION OR PERMANENTLY DATES OF RAINFALL AND THE AMOUNT OF RAINFALL
- DATES AND DESCRIPTIONS OF THE CHARACTER AND AMOUNT OF ANY SPILLS OF HAZARDOUS MATERIALS
- RECORDS OF REPORTS FILED WITH REGULATORY AGENCIES IF REPORTABLE QUANTITIES OF HAZARDOUS MATERIALS ARE COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 5 OR MORE EXCEPT AS FOLLOWS:
- A VISIBLE SIGN SHALL BE POSTED ON THE SITE TO IDENTIFY THE LOCATION OF SPPP
- ANNUAL REPORTS AND CERTIFICATIONS.
 - THE PERMITTEE SHALL PREPARE AN ANNUAL REPORT SUMMARIZING EACH INSPECTION PERFORMED UNDER 1.A., ABOVE. THIS REPORT SHALL BE ACCOMPANIED BY AN ANNUAL CERTIFICATION, ON A FORM PROVIDED BY THE NJDEP, THAT THE FACILITY IS IN COMPLIANCE WITH ITS SPPP AND THIS PERMIT, EXCEPT THAT IF THERE ARE ANY INCIDENTS OF NONCOMPLIANCE, THOSE INCIDENTS SHALL BE NOTED IN THE CERTIFICATION. IF THERE ARE INCIDENTS OF NONCOMPLIANCE, THE REPORT SHALL IDENTIFY THE STEPS BEING TAKEN TO REMEDY THE NONCOMPLIANCE AND TO PREVENT SUCH INCIDENTS FROM RECURRING. THE REPORT AND CERTIFICATION SHALL BE SIGNED AND DATED BY THE PERMITTEE IN ACCORDANCE WITH N.J.A.C. 7:14A-4.9, AND SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST FIVE YEARS WITH COPIES OF ALL INSPECTION REPORTS AND RECORD KEEPING. THIS PERIOD MAY BE EXTENDED BY WRITTEN REQUEST FROM THE DEPARTMENT AT ANY TIME (SEE N.J.A.C. 7:14A-6.6)
 - REPORTS OF NONCOMPLIANCE
- NOTIFICATION OF COMPLETION
 - THE SOIL CONSERVATION DISTRICT WILL PROVIDE THE DEPARTMENT A COPY OF THE REPORT OF COMPLIANCE ISSUED UNDER N.J.A.C. 2:90-1 FOR COMPLETED CONSTRUCTION ACTIVITIES, EXCEPT SINGLE FAMILY HOME CONSTRUCTION UNDER 8, BELOW. THE REPORT OF COMPLIANCE SHALL SERVE AS THE NOTIFICATION OF COMPLETION.
 - THE BUILDER OF A SINGLE FAMILY HOME THAT IS AUTHORIZED UNDER THIS PERMIT, BUT NOT WITHIN THE DEFINITION OF "PROJECT" AT N.J.A.C. 4:24-41C, SHALL SEND A COPY OF THE "FINA AND FUNDING" AND "FINANCIAL" TAB OF ANY CATEGORY, JOB OR CAN, ANY UNLIGHED CIGARETTE, CIGAR, MATCH OR ANY FLAMING OR GLOWING MATERIAL, OR ANY OTHER PACKAGING OR CONSTRUCTION MATERIAL, BUT DOES NOT INCLUDE THE WASTE OF THE PRIMARY PROCESSES OF MINOR OR OTHER EXTRACTION PROCESSES, LOGGING, SAWMILLING, FARMING OR MANUFACTURING.
 - SANITARY SEWAGE AND SEPTAGE.
 - CONTAMINATED SOILS ENCOUNTERED OR DISCOVERED DURING EARTHMOVING ACTIVITIES OR DURING THE CLEANUP OF A LEAK OR DISCHARGE OF A HAZARDOUS SUBSTANCE.
 - CONCRETE TRUCK WASHOUT - CONCRETE TRUCK WASHOUT ONSITE IS PROHIBITED OUTSIDE DESIGNATED AREAS. DESIGNATED WASHOUT AREAS SHALL BE LINED AND BERMED TO PREVENT DISCHARGES TO SURFACE AND GROUND WATER. HARDENED CONCRETE FROM CONCRETE TRUCK WASHOUT SHALL BE REMOVED AND PROPERLY DISPOSED OF.
 - SANITARY SEWAGE/SEPTAGE DISPOSAL - DISCHARGES OF RAW SANITARY SEWAGE OR SEPTAGE ONSITE ARE STRICTLY PROHIBITED. ADEQUATE FACILITIES WITH PROPER DISPOSAL SHALL BE PROVIDED AND MAINTAINED ONSITE OR ADJACENT TO THE SITE FOR ALL WORKERS AND OTHER SANITARY NEEDS.
 - SPILLS: DISCHARGE OF HAZARDOUS SUBSTANCES.
 - SPILL KITS SHALL BE AVAILABLE ONSITE OR ADJACENT TO THE SITE FOR ANY MATERIALS THAT ARE LISTED IN 2 AND USED OR APPLIED ONSITE. ALL SPILLS OF SUCH MATERIAL SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY. CLEANED UP MATERIALS SHALL BE PROPERLY DISPOSED OF.
 - DISCHARGES OF HAZARDOUS SUBSTANCES (AS DEFINED IN N.J.A.C. 7:1E-1.6) IN CONSTRUCTION SITE WASTES ARE SUBJECT TO THE PROVISIONS OF THE SPILL COMPENSATION AND CONTROL ACT, NJAC 8:10-23.11 ET SEQ. AND OF DEPARTMENT RULES FOR DISCHARGE OF PETROLEUM AND OTHER HAZARDOUS SUBSTANCES AT NJAC 7:1E. NO DISCHARGE OF HAZARDOUS SUBSTANCES RESULTING FROM AN ONSITE SPILL SHALL BE DEEMED TO BE "PURSUANT TO AND IN COMPLIANCE WITH THIS PERMIT" WITHIN THE MEANS OF THE SPILL COMPENSATION AND CONTROL ACT AT NJA 58:10-23.11C.
 - RELEASES IN EXCESS OF REPORTABLE QUANTITIES (OR ESTABLISHED UNDER 40 C.F.R. 110.117 AND 302 THAT REQUIRE WITHIN A 24-HOUR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800-424-8802)

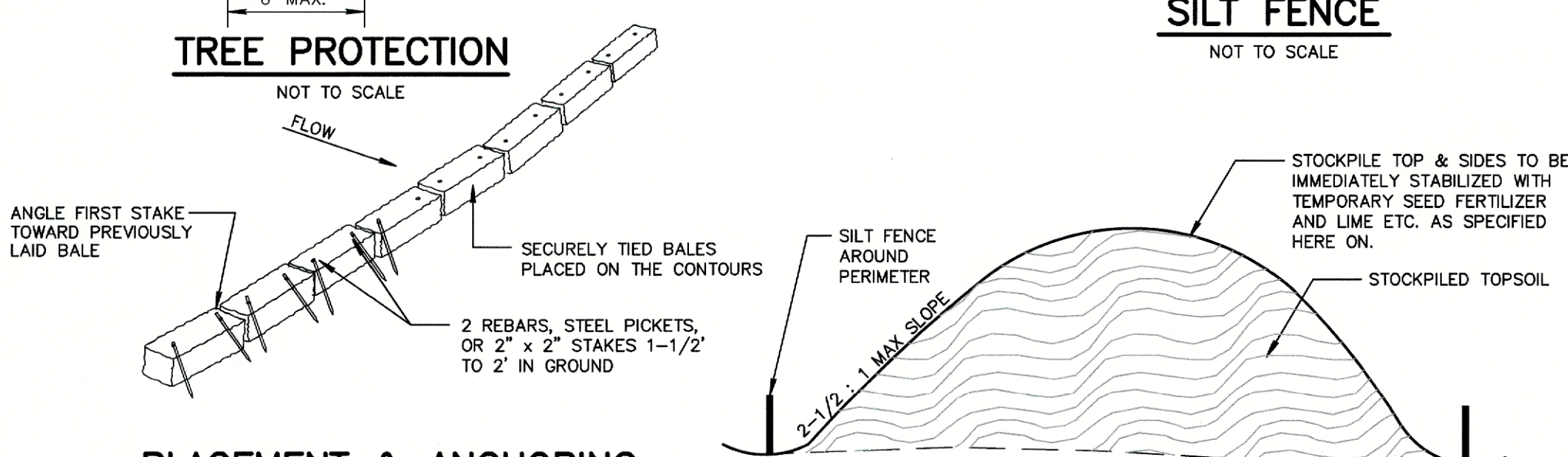
MITIGATION NOTES FOR ACIDIC SOIL

- LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID PRODUCING SOILS ARE ENCOUNTERED.
- TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOILS.
- STOCKPILES OF HIGH ACID PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
- TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOIL MATERIAL TO BE EXPOSED MORE THAN 30 DAYS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOE OF SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID PRODUCING SOIL.
- HIGH ACID PRODUCING SOILS WITH A pH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT A RATE OF 6 TONS PER ACRE (OR 275 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 5 OR MORE EXCEPT AS FOLLOWS:
 - AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A pH OF 5 OR MORE.
 - DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES AND OTHERS TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
- EQUIPMENT USED FOR MOVEMENT OF HIGH ACID PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID SOIL MATERIALS TO OTHER PARTS OF THE SITE INTO STREAMS OR OF DEPARTMENT RULINGS TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
- NON VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SILT FENCE, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID PRODUCING SOILS FROM AREAS OUT OF THE SITE.
- FOLLOWING BURIAL OR REMOVAL OF HIGH ACID PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 7-1, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 4-1 AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW LATE EDITION). MONITORING SHOULD CONTINUE FOR APPROXIMATELY 6 TO 12 MONTHS TO ASSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE UNTIL PROBLEMS ARE CORRECTED TO THE PROBLEM.
- MONITORING OF AREAS WHERE HIGH ACID PRODUCING SOIL HAS BEEN PLACED OR BURIED SHOULD BE PERFORMED FOR AT LEAST 2 YEARS OR LONGER IF PROBLEMS OCCUR, TO ASSURE THERE IS NO MIGRATION OF POTENTIAL ACID LEACHATE.



TREE PROTECTION

NOT TO SCALE



PLACEMENT & ANCHORING BALE SEDIMENT BARRIERS

NOT TO SCALE

STOCKPILE AREA

NOT TO SCALE

CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE STORMWATER POLLUTION PREVENTION PLAN (SPPP)

(THIS IS FOR CONSTRUCTION WASTE ONLY)

THE CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE SPPP CONSISTS OF THE REQUIREMENT IN 2., 3., AND 4. BELOW. THESE REQUIREMENTS BECOME OPERATIVE ON MARCH 3, 2004 AND APPLY TO CONSTRUCTION ACTIVITIES THAT COMMENCE ON OR AFTER MARCH 3, 2004. ANY NEW CONSTRUCTION ACTIVITY FOR WHICH AN RFA IS SUBMITTED ON OR AFTER MARCH 3, 2004 OR WHICH WILL RECEIVE AUTOMATIC RENEWAL OR AUTHORIZATION UNDER THIS PERMIT AFTER MARCH 3, 2004 ALSO SHALL COMPLY WITH THESE REQUIREMENTS.

MATERIAL, MANUFACTURE TO PREVENT OR REDUCE WASTE - ANY PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTI-FREEZE, PAINTS AND PAINT THINNERS, CLEANING SOLVENTS AND ACIDS, DETERGENTS, CHEMICAL ADDITIVES, AND CONCRETE CURING COMPOUNDS SHALL BE STORED IN CONTAINERS IN A DRY, CLEAN, COVERED AREA. MANUFACTURERS RECOMMENDED APPLICATION RATES, USES, AND METHODS SHALL BE STRICTLY FOLLOWED TO THE EXTENT NECESSARY TO PREVENT OR MINIMIZE THE PRESENCE OF WASTE FROM SUCH MATERIALS IN THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT (THE PRECEDING SENTENCE DOES NOT APPLY TO ANY MANUFACTURERS' RECOMMENDATIONS ABOUT FERTILIZER OR OTHER MATERIAL THAT CONFLICT WITH THE EROSION AND SEDIMENT CONTROL COMPONENT OF THE FACILITY'S SPPP.)

WASTE HANDLING - THE FOLLOWING REQUIREMENTS APPLY ONLY TO CONSTRUCTION SITE WASTE THAT HAS THE POTENTIAL TO BE TRANSPORTED BY THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. THE HANDLING AT THE CONSTRUCTION SITE OF WASTE BUILDING MATERIAL AND RUBBLE AND OTHER CONSTRUCTION SITE WASTES, INCLUDING LITTER AND HAZARDOUS AND SANITARY WASTES, SHALL CONFORM WITH THE STATE SOLID WASTE MANAGEMENT ACT, N.J.A.C. 13:1E - ET SEQ. AND ITS IMPLEMENTING RULES AT N.J.A.C. 7:26, 7:26A, AND 7:26B. THE NEW JERSEY PESTICIDE CONTROL CODE AT N.J.A.C. 17:27, 17:27A, 17:27B, 17:27C, 17:27D, 17:27E, 17:27F, 17:27G, 17:27H, 17:27I, 17:27J, 17:27K, 17:27L, 17:27M, 17:27N, 17:27O, 17:27P, 17:27Q, 17:27R, 17:27S, 17:27T, 17:27U, 17:27V, 17:27W, 17:27X, 17:27Y, 17:27Z, 17:27AA, 17:27AB, 17:27AC, 17:27AD, 17:27AE, 17:27AF, 17:27AG, 17:27AH, 17:27AI, 17:27AJ, 17:27AK, 17:27AL, 17:27AM, 17:27AN, 17:27AO, 17:27AP, 17:27AQ, 17:27AR, 17:27AS, 17:27AT, 17:27AU, 17:27AV, 17:27AW, 17:27AX, 17:27AY, 17:27AZ, 17:27BA, 17:27BB, 17:27BC, 17:27BD, 17:27BE, 17:27BF, 17:27BG, 17:27BH, 17:27BI, 17:27BJ, 17:27BK, 17:27BL, 17:27BM, 17:27BN, 17:27BO, 17:27BP, 17:27BQ, 17:27BR, 17:27BS, 17:27BT, 17:27BU, 17:27BV, 17:27BW, 17:27BX, 17:27BY, 17:27BZ, 17:27CA, 17:27CB, 17:27CC, 17:27CD, 17:27CE, 17:27CF, 17:27CG, 17:27CH, 17:27CI, 17:27CJ, 17:27CK, 17:27CL, 17:27CM, 17:27CN, 17:27CO, 17:27CP, 17:27CQ, 17:27CR, 17:27CS, 17:27CT, 17:27CU, 17:27CV, 17:27CW, 17:27CX, 17:27CY, 17:27CZ, 17:27DA, 17:27DB, 17:27DC, 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