

PRELIMINARY SITE PLAN

FOR

MALVERN SCHOOL PROPERTIES, LP PROPOSED DAY SCHOOL AND MEDICAL OFFICE

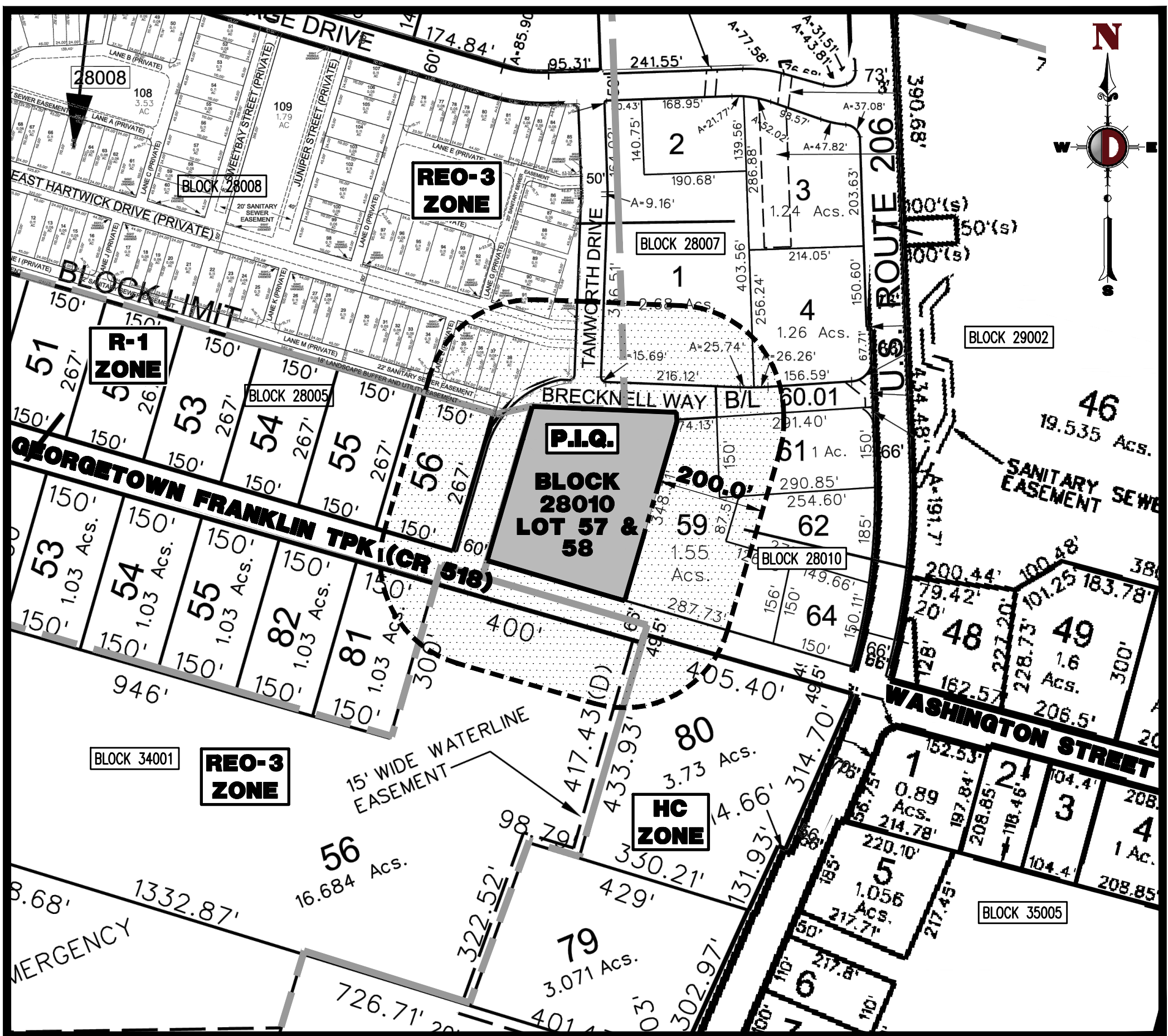
BLOCK 28010, LOT 57 & 58; TAX MAP SHEET #55 - LATEST REV. DATED 2020-2021

982 GEORGETOWN-FRANKLIN TURNPIKE

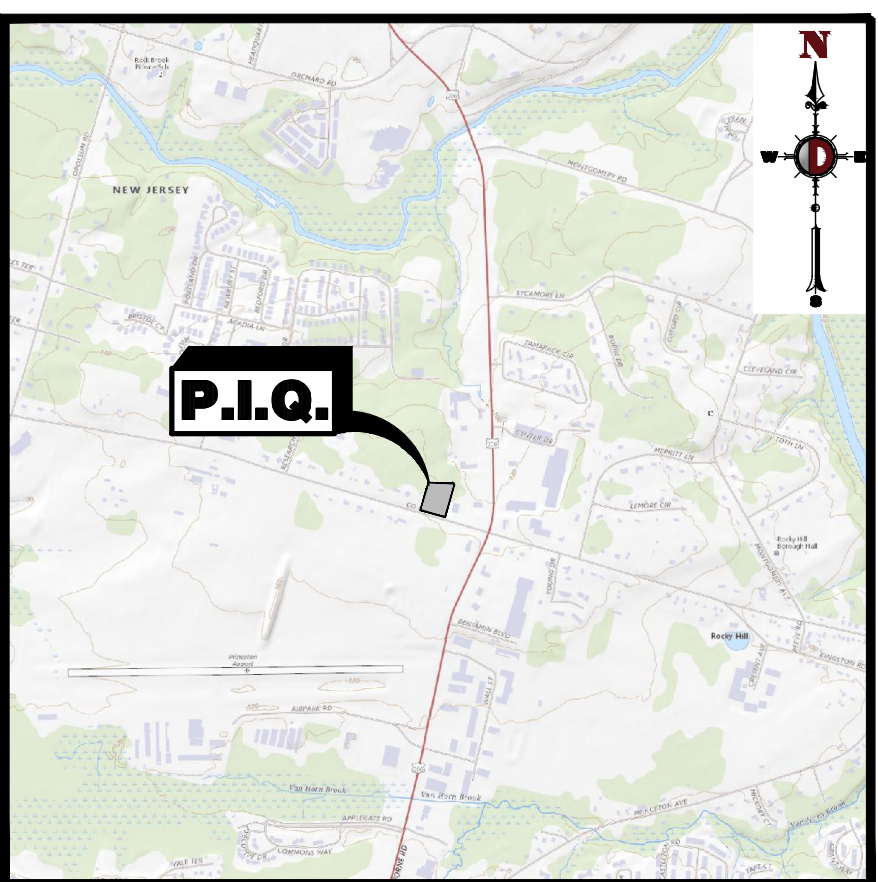
TOWNSHIP OF MONTGOMERY
SOMERSET COUNTY, NEW JERSEY

200' PROPERTY OWNERS LIST

PROPERTY OWNER	BLOCK	LOT	ALSO TO BE NOTICED:
MALLELA, PURUSHOTHAM R & H A 63 HARTWICK DRIVE SKILLMAN, NJ 08558	28003	56	TOWNSHIP OF MONTGOMERY CLERK'S OFFICE 100 COMMUNITY DR SKILLMAN, NJ 08558
VILLAGE WALK 1330, LLOC 219 NASSAU STREET PRINCETON, NJ 08542	28007	1	SOMERSET COUNTY PLANNING BOARD PO BOX 3000 SOMERVILLE, NJ 08876
VILLAGE SHOPS AT MONTGOMERY LLC 219 NASSAU STREET PRINCETON, NJ 08542	28007	4	NJ DEPARTMENT OF TRANSPORTATION 1035 PARKWAY AVE, CN600 TRENTON, NJ 08625
SHARBELL PLAINSBORO INC 1 WASHINGTON BLVD ROBINSVILLE, NJ 08691	28008	35	COMCAST CABLE 100 RANDOLPH ROAD SOMERSET, NJ 08873
SHARBELL PLAINSBORO INC 1 WASHINGTON BLVD ROBINSVILLE, NJ 08691	28008	36	NEW JERSEY AMERICAN WATER ATTN: DONNA SHORT, GIS SUPERVISOR 1025 LAURAL OAK RD VOORHEES, NJ 08043
SHARBELL PLAINSBORO INC 1 WASHINGTON BLVD ROBINSVILLE, NJ 08691	28008	37	CENTURY LINK ATTN: BOB O'CONNER 256 PAUL ST BELVIDERE, NJ 07823
SHARBELL PLAINSBORO INC 1 WASHINGTON BLVD ROBINSVILLE, NJ 08691	28008	38	PUBLIC SERVICE ELECTRIC & GAS MANAGER-CORPORATE-PROPERTIES 80 PARK PLAZA-16B NEWARK, NJ 07102
SHARBELL PLAINSBORO INC 1 WASHINGTON BLVD ROBINSVILLE, NJ 08691	28008	91	DEPARTMENT OF PUBLIC WORKS TOWNSHIP OF MONTGOMERY 100 COMMUNITY DRIVE SKILLMAN, NJ 08558 ATTN: ARTUR VILANO, SUPERINTENDANT
SHARBELL PLAINSBORO INC 1 WASHINGTON BLVD ROBINSVILLE, NJ 08691	28008	110	
K.T. CORPORATION 7 HOUSTON COURT MARTINSVILLE, NJ 08836 TOWNSHIP OF MONTGOMERY 100 COMMUNITY DRIVE SKILLMAN, NJ 08558	28010	59	
AMERICAN REALTY ASSOC O/O PRC. INNKEEPER 1600 HIGHWAY 34 NEPTUNE, NJ 07753	28010	61	
AMERICAN REALTY ASSOC O/O PRC. INNKEEPER 1600 HIGHWAY 34 NEPTUNE, NJ 07753	28010	62	
PRINCETON PROMENADE, LLC 1115 HOWELL MILL RD NW ATLANTA, GA 30318	34001	56	
PRINCETON PROMENADE, LLC 1115 HOWELL MILL RD NW ATLANTA, GA 30318	34001	80	
PRINCETON PROMENADE, LLC 1115 HOWELL MILL RD NW ATLANTA, GA 30318	34001	81	



AREA MAP
1" = 200'



KEY MAP
1" = 2000'

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ZONING BOARD OF ADJUSTMENT APPROVAL

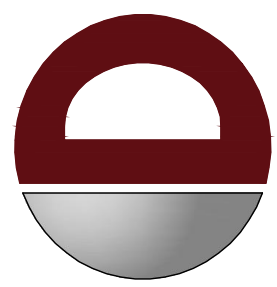
APPROVED AT THE ZONING BOARD OF ADJUSTMENT OF THE TOWNSHIP OF MONTGOMERY, SOMERSET COUNTY, NEW JERSEY

CHAIRPERSON _____ DATE _____
SECRETARY _____ DATE _____
TOWNSHIP ENGINEER _____ DATE _____

OWNER CERTIFICATION

I CERTIFY THAT I AM THE OWNER OF LOTS 57 & 58 BLOCK 28010 AND CONSENT TO THE FILING OF THIS APPLICATION.

PROPERTY OWNER _____ DATE _____



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THIS PLAN SET IS FOR PERMITTING PURPOSES
ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: KTK
CHECKED BY: JSH
DATE: _____

PROJECT: MALVERN SCHOOL PROPERTIES, LP
PROPOSED DAY SCHOOL AND MEDICAL OFFICE
BLOCK 28010, LOTS 57 & 58
982 GEORGETOWN-FRANKLIN TURNPIKE
TOWNSHIP OF MONTGOMERY, SOMERSET COUNTY, NEW JERSEY



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JEFFREY HABERMAN

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53560

JACQUELYN GIORDANO

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53568

COVER SHEET







SCALE: (H) AS NOTED
DATE: 04/28/2023

PROJECT No: 4447-22-01334

SHEET No: 1 OF 20
Rev. #:



DEMOLITION PLAN LEGEND

	-	PROPOSED LIMIT OF DISTURBANCE LINE
	-	PROPOSED TREE PROTECTION FENCE LINE
	-	EXISTING IMPROVEMENTS TO BE REMOVED UNLESS OTHERWISE NOTED
	-	TREES TO REMAIN
	-	TREES TO BE REMOVED
	-	TREES TO BE TRANSPLANTED/RELOCATED

TREE SIZE (CALIPER) – TBR	QUANTITY
6"	8
8"	1
9"	1
10"	3
11"	2
12"	15
13"	3
14"	1
15"	10
16"	3
17"	2
18"	11
20"	6
22"	1
23"	2
24"	8
25"	1
26"	3
28"	2
30"	6
36"	2
38"	2
40"	2
42"	1
TOTAL	96



THE SOIL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. THE CONTRACTOR SHALL PLAN SET THE CROWN AND FINISH GRADES FOR REMOVING AND REPLACING ALL SOILS, FILLING OR INSURABLE MATERIALS, AND REPAIRING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT, ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST METHOD. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 7% ABOVE OR 3% BELOW OPTIMUM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND STRUCTURES THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPLETED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND STRUCTURES THAT ARE NOT IDENTIFIED IN THE ENGINEER'S WRITING.

CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY RISE/ ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR TO EXPOSE 0.75% MIN. SLOPE AGAINST ALL ISLAND CURBS, CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1-1/2% MIN. ON ASPHALT SURFACES. CONTRACTOR SHALL MAINTAIN THE EXPOSED SLOPE. CONTRACTOR SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DEVIATIONS IS DONE SO AT THE CONTRACTOR'S OWN RISK.

PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY .6' ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FILL ADJUST TO CREATE A MIN. OF 0.75% GRADE GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING OUT SHEETS PRIOR TO INSTALLATION.

SUBGRADE MATERIAL FOR SIDEWALKS, CURBS, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SUBGRADE SHALL BE DEMONSTRATED TO BE FREE OF WEEDS AND SHALL BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL. CONTRACTOR TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).

REFER TO SITE PLAN FOR ADDITIONAL NOTES.

IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.

MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.

CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS AREAS. CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS ON ALL OTHER PORTIONS OF ACCESSIBLE ROUTE WITH THE EXCEPT OF DAMP AREAS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

THE OWNER SHALL RETAIN DYNAMIC G&G (908-879-7790) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL FERMABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOLS AND ALL FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE WITH THE DESIGN.

CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED FERMABILITY AS DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE FERMABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED METHODS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL, UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

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JEFFREY HABERMAN



PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53560

JACQUELYN GIORDANO

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53558

TITLE: <h1 style="text-align: center; margin: 0;">GRADING PLAN</h1>	
SCALE: (1" = 20') (0)	DATE: 04/28/2023
PROJECT No: 4447-22-01334	

SHEET No: <div style="font-size: 48px; text-align: center; margin: 20px 0;">5</div>	Rev. #: <div style="text-align: center; margin-top: 20px;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">1</div> </div>
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1. 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.

2. 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.

3. MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-676, CLASS II, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS II-EE, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE COORDINATED WITH THE ARCHITECT FOR CONFORMANCE WITH THE CITY OF CHICAGO. ALL STORMWATER PIPING TO BE PERFORMED UNDER SLOANED AND/OR FLAT ROOFS SHALL BE IN ACCORDANCE WITH ASTM C 990 TO BE UTILIZED TO PROVIDE A SLIT-JOINT TYPE, WHEN SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATERTIGHT AND CONFORM TO ASTM C-443.

4. HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUSIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE WALL THICKNESS OF 1/2" MINIMUM. HDPE DRAINAGE PIPE SHALL CONFORM TO ASTM F2306 AND ASTM D3212. REPERFORATED HDPE PIPE SHALL HAVE CROWNED JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F277. HOPE PIPE SHALL COME FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

5. HD DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUSIONS AND CONFORM TO ASTM F2736 (12"-30" PIPE) AND ASTM F288 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F447. FIELD WATERTIGHTNESS OF JOINTS SHALL BE VERIFIED BY THE CONTRACTOR. ALL HDPE DRAINAGE PIPE SHALL COME FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

6. 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.



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 SERVICE.






































































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.

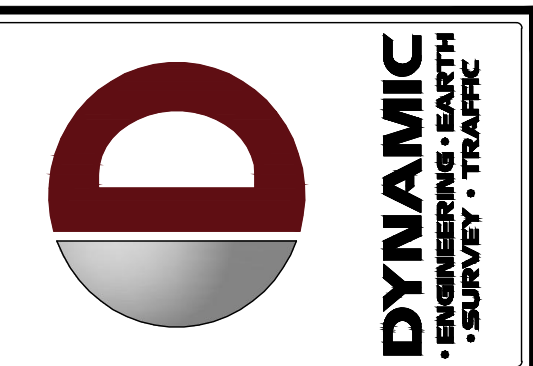
SANITARY SEWER SERVICE NOTE: CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SERVICE CONNECTION IF OF ADEQUATE SIZE AND INTEGRITY AND ACCEPTABLE TO LOCAL SEWER AUTHORITY. OTHERWISE CONTRACTOR TO REMOVE EXISTING SEWER SERVICE LINE AND CAP AT MAIN IN R.O.W. IN ACCORDANCE WITH THE LOCAL SEWER AUTHORITY 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. THE CONTRACTOR IS RESPONSIBLE TO THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND TO BE OBTAINED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADE, 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 WAK-OUT THEIR UTILITIES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXIST 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 APPROPRIATES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WATER SERVICE.
5. ALL WATER MAIN SHALL BE CEMENT-UNED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.
6. THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.
7. ALL SANITARY SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN OR SUCH OTHER SEPARATION AS REQUIRED BY THE APPROVING AGENCY. SEPARATION OF SANITARY SEWER FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE EXISTING SANITARY SEWER. IF THE SEWER MAIN IS NOT SEPARATED FROM THE WATER MAIN BY AT LEAST 10 FEET, THE SEWER MAIN SHALL BE ENCASED IN CONCRETE. WHEN A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE JOINT SHALL BE PROVIDED. THE APPROVING AUTHORITY MAY REQUIRE ADDITIONAL STRUCTURAL SUPPORT FOR STORM SEWER CROSSING OVER SEWER LINES.
8. ALL SANITARY SEWER MAINS SHALL BE SDR-35 PVC PIPE, UNLESS OTHERWISE DESIGNATED. SEWER PIPES INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-UNED, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED EQUAL.
9. WHERE SANITARY MAINS 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. ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.
13. ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.

GRADING/UTILITY GRAPHIC LEGEND

	PROPERTY LINE (PARCEL IN QUESTION)	
	OFF-SITE PROPERTY LINES	
	C	PROP. CABLE LINE
	E	PROP. ELECTRIC LINE
	FO	PROP. FIBER OPTIC LINE
	G	PROP. GAS LINE
	OH	PROP. OVERHEAD WIRES
	T	PROP. TELEPHONE LINE
	UGET	PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
	W	PROP. WATER LINE
	FS	PROP. FIRE SERVICE
	S	PROP. SANITARY SEWER LINE
	FM	PROP. FORCE MAIN
	SD	PROP. STORM DRAIN LINE
	17	PROP. MINOR CONTOUR & ELEVATION
	10	PROP. MAJOR CONTOUR & ELEVATION
		EXIST. MONITORING WELL
	× 8.9	EXIST. SPOT ELEVATIONS
	× G. 8.90	EXIST. GUTTER ELEV.
	× TC. 8.90	EXIST. TOP OF CURB ELEV.
	× FF. 8.90	EXIST. FINISH FLOOR ELEV.
	× GF. 8.90	EXIST. GARAGE FLOOR ELEV.
		EXIST. FIRE HYDRANT
		EXIST. WATER VALVE
		EXIST. GAS VALVE
		EXIST. ELECTRIC METER
		EXIST. ELECTRIC BOX
		EXIST. CLEAN OUT
		EXIST. WELL
		EXIST. WATER SHUT OFF VALVE
		EXIST. TELEPHONE BOX
		EXIST. CABLE TV BOX
		EXIST. UTILITY POLE
		EXIST. GUY WIRE
		EXIST. LIGHT POLE
		EXIST. BUILDING LIGHT
		EXIST. SHOE BOX LIGHT
		EXIST. COBRA LIGHT POLE
		EXIST. TRAFFIC SIGNAL POLE
		EXIST. MANHOLE
		EXIST. "A" INLET
		EXIST. "B" INLET
		EXIST. "T" INLET
		EXIST. YARD INLET
		EXIST. FLARED END SECTION
		EXIST. HEADWALL
	C	PROP. CABLE LINE
	E	PROP. ELECTRIC LINE
	FO	PROP. FIBER OPTIC LINE
	G	PROP. GAS LINE
	OH	PROP. OVERHEAD WIRES
	T	PROP. TELEPHONE LINE
	UGET	PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
	W	PROP. WATER LINE
	FS	PROP. FIRE SERVICE
	S	PROP. SANITARY SEWER LINE
	FM	PROP. FORCE MAIN
	SD	PROP. STORM DRAIN LINE
	XX	PROP. FINISH GRADE CONTOUR & ELEVATION
		APPROX. TEST PIT LOCATION
	CS. 000.00	PROP. GRADE SPOT ELEV.
	TC. 000.00	PROP. TOP OF CURB & FINISHED GRADE ELEV.
	FF. 000.00	PROP. FINISHED FLOOR ELEV.
	FW. 000.00	PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
	GH. 000.00	PROP. TOP OF EXTENDED CURB (OH) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB & (CS) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
		PROP. DIRECTION OF DRAINAGE FLOW ARROW
		PROP. WATER VALVE
		PROP. GAS VALVE
		PROP. STORM CLEANOUT
		PROP. SANITARY CLEANOUT
		PROP. AREA LIGHT

[illegible]

THIS PLAN SET IS FOR PERMITTING PURPOSES
ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DESIGNED BY:	CHECKED BY:	CHECKED BY:
KTK	AF	JSH
		-

PROJECT: **MALVERN SCHOOL PROPERTIES, LP**
PROPOSED DAY SCHOOL AND MEDICAL OFFICE
BLOCK 28010, LOTS 57 & 58
982 GEORGETOWN—FRANKLIN TURNPIKE
TOWNSHIP OF MONTGOMERY, SOMERSET COUNTY, NEW JERSEY



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JEFFREY HABERMAN

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53560

JACQUELYN GIORDANO

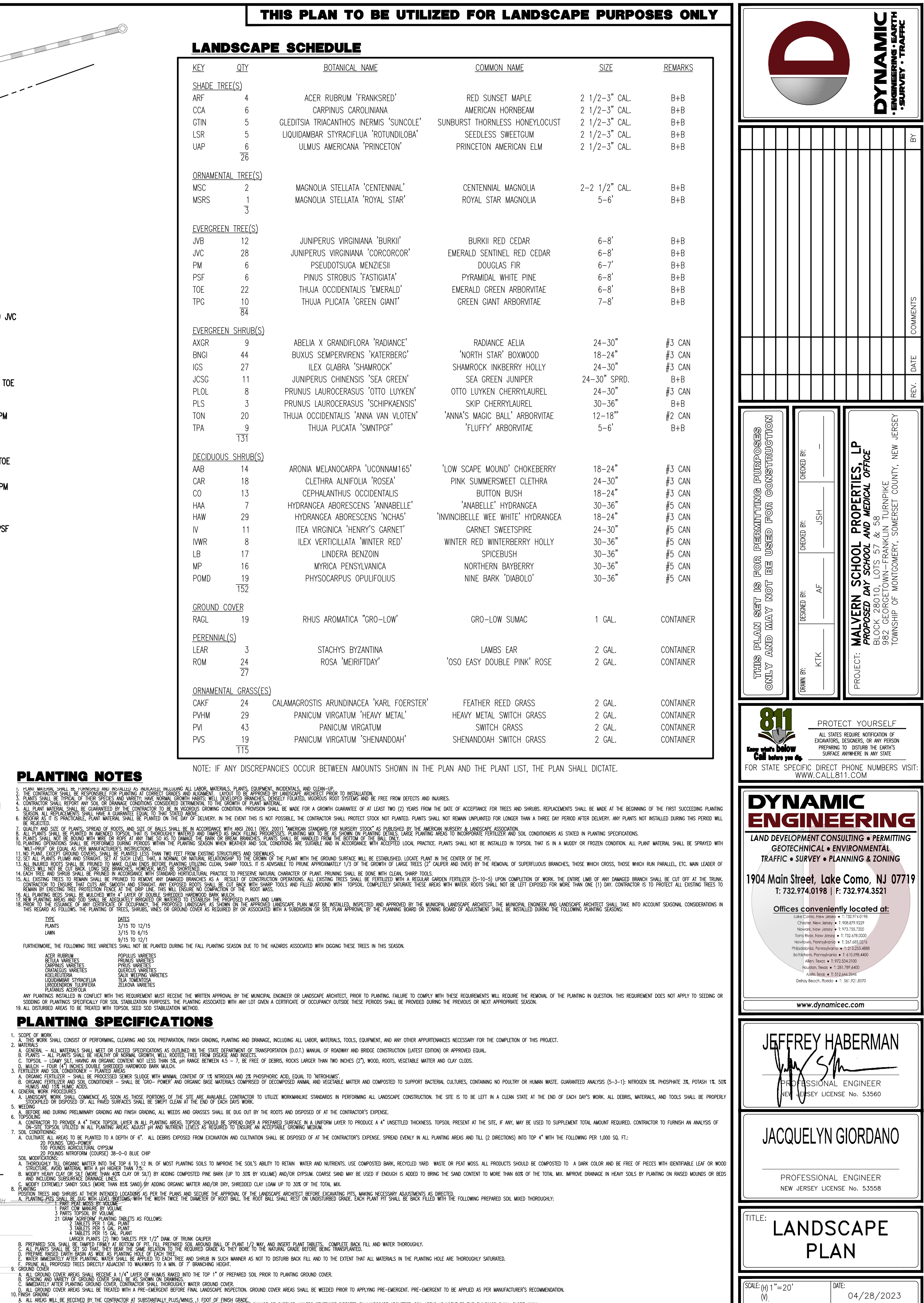
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53558

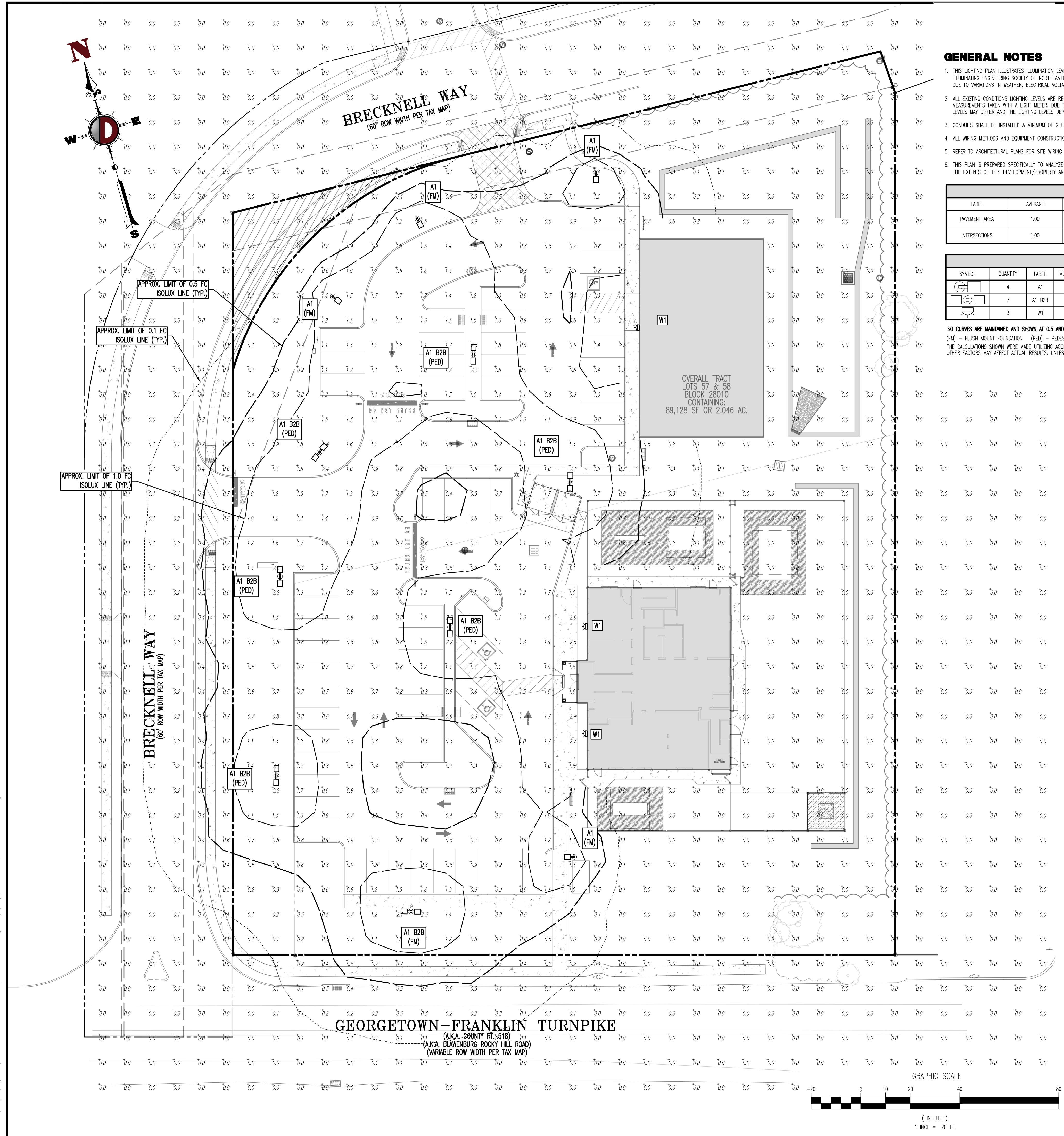
TITLE:

UTILITY PLAN

SCALE: (H) 1"=20' (V).	DATE: 04/28/2023
PROJECT No: 4447-22-01334	

SHEET No: **7** OF 20





THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY

GENERAL NOTES

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 LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
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 LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.
3. CONDUITS SHALL BE INSTALLED A MINIMUM OF 2 FEET BEHIND GUIDELINE POSTS.
4. ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.
5. REFER TO ARCHITECTURAL PLANS FOR SITE WIRING DIAGRAM.
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.

STATISTICAL AREA SUMMARY						
LABEL	AVERAGE	MAXIMUM	MINIMUM	AVG./MIN.	MAX./MIN.	DESCRIPTION
PAVEMENT AREA	1.00	2.50	0.30	3.33	8.33	LIGHT LEVELS WITHIN PAVEMENT AREA
INTERSECTIONS	1.00	1.70	0.60	1.67	2.83	LIGHT LEVELS AT DRIVEWAY INTERSECTIONS

LIGHTING LUMINAIRE SCHEDULE									
SYMBOL	QUANTITY	LABEL	MOUNTING HEIGHT	ARRANGEMENT	LIGHT LOSS FACTOR	MANUFACTURER	DESCRIPTION	TEMPERATURE	IES FILE
	4	A1	18 FT	SINGLE	1.000	COOPER LIGHTING SOLUTIONS	MEDIUM TYPE 4 WALL MOUNTED LIGHT	3000K	MEM-ED1-LED-E-U-74-7030
	7	A1 B2B	18 FT	BACK-TO-BACK	1.000	COOPER LIGHTING SOLUTIONS	MEDIUM TYPE 4 WALL MOUNTED LIGHT	3000K	MEM-ED1-LED-E-U-74-7030
	3	W1	12 FT	SINGLE	1.000	COOPER LIGHTING SOLUTIONS	MEDIUM TYPE 4 WALL MOUNTED LIGHT	3000K	MEM-ED1-LED-E-U-74-7030

ISO CURVES ARE MAINTAINED AND SHOWN AT 0.5 AND 0.1 FC.
(FM) - FLUSH MOUNT FOUNDATION (PED) - PEDESTAL FOUNDATION
THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE, DIRT DEPRECIATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS. UNLESS OTHERWISE STATED, ALL RESULTS ARE MAINTAINED VALUES, UTILIZING ACCEPTED LIGHT LOSS FACTORS (LLF).

SEE SHEET 15 OF 20 FOR LIGHTING DETAILS

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PROJECT: MALVERN SCHOOL PROPERTIES, LP PROPOSED DAY SCHOOL AND MEDICAL OFFICE BLOCK 28010, LOTS 57 & 58 98A GEORGETOWN-FRANKLIN TURNPIKE TOWNSHIP OF MONTGOMERY, SOMERSET COUNTY, NEW JERSEY				

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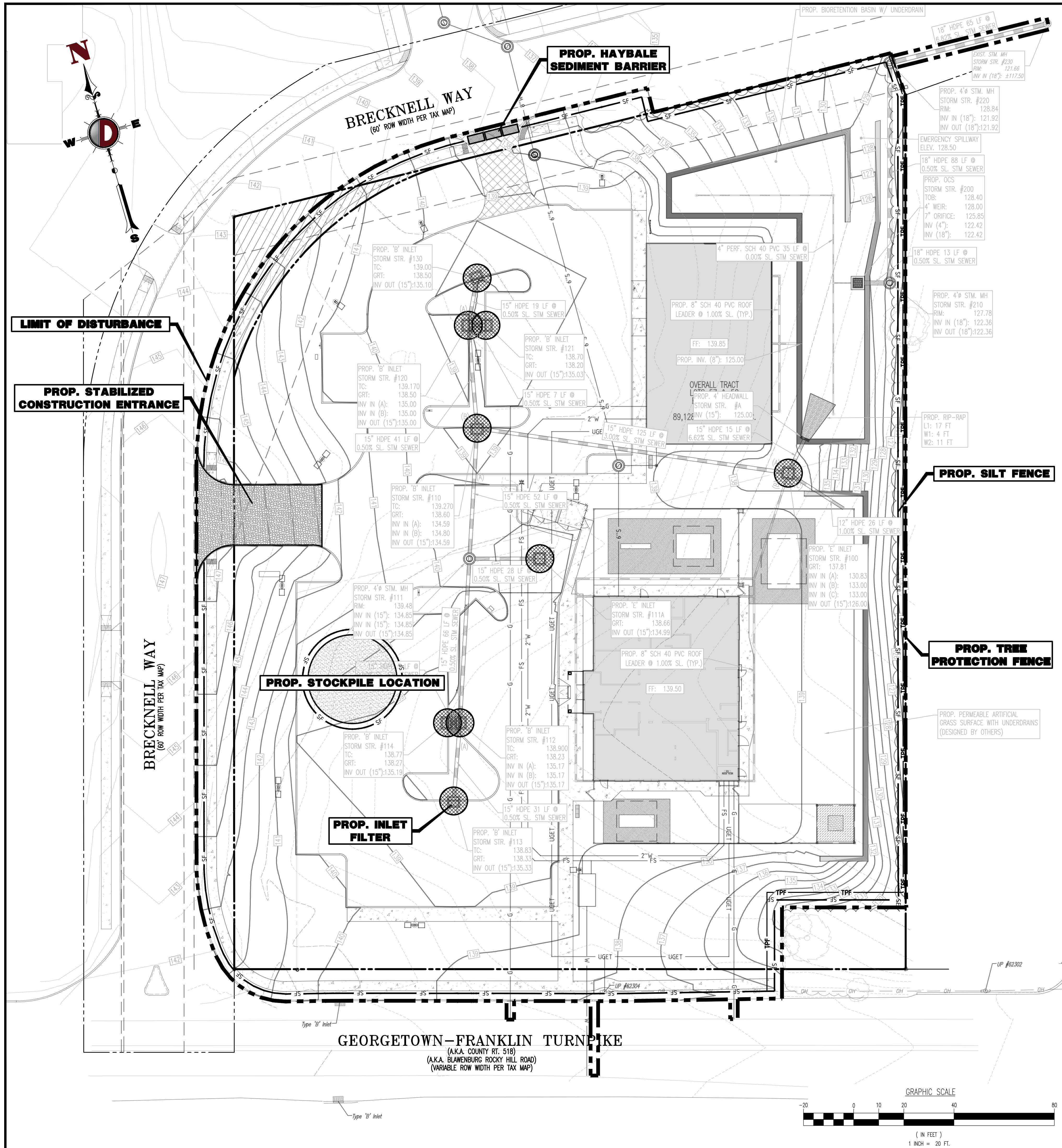
JEFFREY HABERMAN

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53560

JACQUELYN GIORDANO

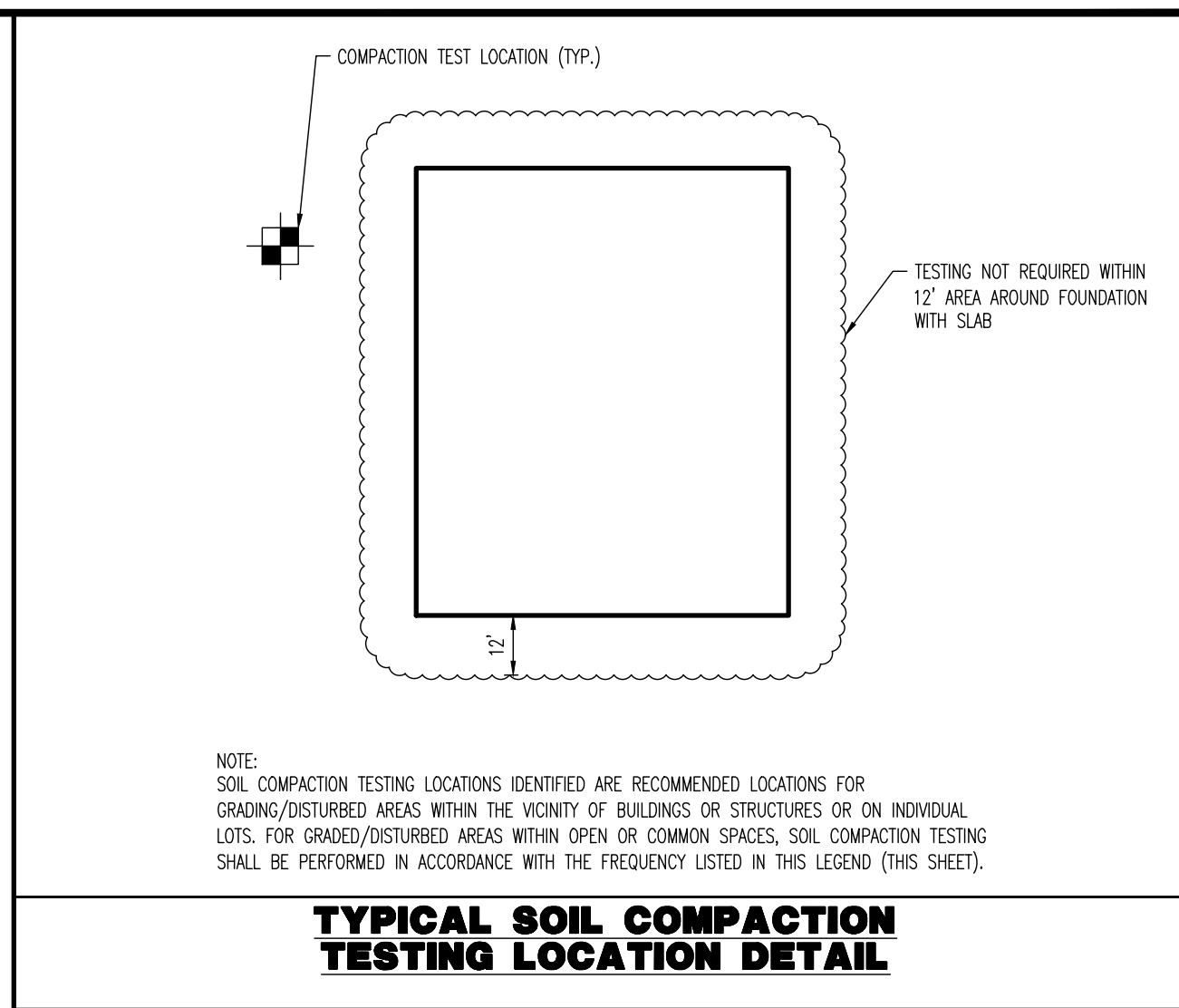
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53568

TITLE:	DATE:
LIGHTING PLAN	04/28/2023
SCALE: (H) 1" = 20' (V) 1" = 20'	PROJECT No:
	4447-22-01334
SHEET No:	Rev. #:
9	
OF 20	0



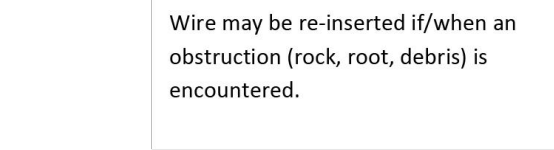
THIS PLAN TO BE UTILIZED FOR SOIL EROSION & SEDIMENT CONTROL PURPOSES ONLY



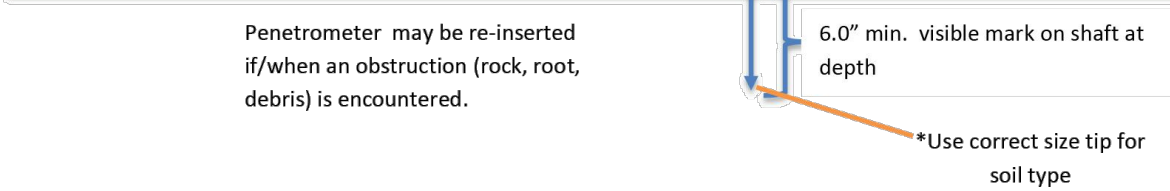


1. PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
2. RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MUST BE SUBJECT TO DISTRICT APPROVAL.
3. SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE 6" MINIMUM DEPTH) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

Note: soil should be moist but not saturated. Do not test when soil is excessively dry or subject to freezing temperatures. Slow, steady downward pressure used to advance the wire.



Note: soil should be moist but not saturated. Do not test when soil is excessively dry or subject to freezing temperatures. Slow, steady downward pressure used to advance the probe. Probe must penetrate at least 6" with less than 300 psi reading on the gage.



1. Subgrade soils **prior to the application of topsoil** (see permanent seeding and stabilization notes for topsoil requirements) shall be free of excessive compaction to a depth of 6.0 inches to enhance the establishment of permanent vegetative cover.

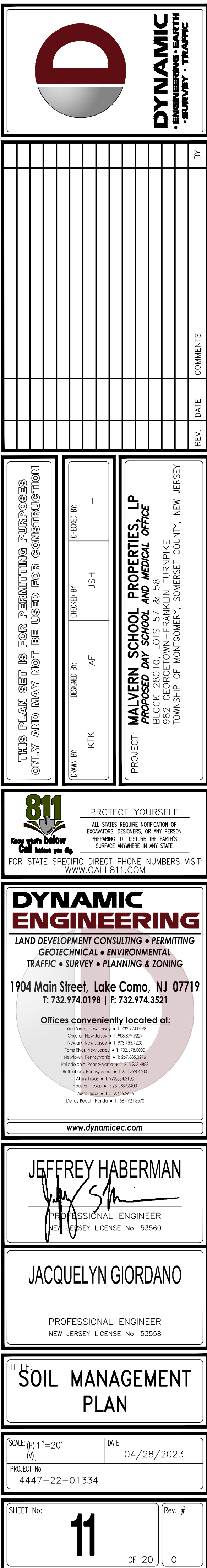
- A. Probing Wire Test (see detail)
- B. Hand-held Penetrometer Test (see detail)
- C. Tube Bulk Density Test (licensed professional engineer required)
- D. Nuclear Density Test (licensed professional engineer required)

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 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 maybe substituted subject to District Approval.



Plotted: 05/01/2023 at 1:29 PM, By: kkkk
File: P:\projects\4447 the malvern school\22-01334 montgomery\Draw\Site Plans\0447221334SD0.dwg, ----> 12. SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SOMERSET-UNION SOIL CONSERVATION DISTRICT SOIL EROSION & SEDIMENT CONTROL NOTES:

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO NJ STATE STANDARDS.
- PERMANENT VEGETATION SHALL BE SEEDING OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NJ STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION LAST REVISED JANUARY 2014.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO THE NJ STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.: SLOPES GREATER THAN 3:1).
- TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50'X30'X6"PAD OF 1 1/2" OR 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROWTH, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROWTH. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDESUITABLE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES.
- IN THAT NJSA 4:24-39 ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NJ STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.
- THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
- MULCHING TO THE NJ STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONALS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF CONSTRUCTION PROJECT.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE SOMERSET-UNION SOIL CONSERVATION DISTRICT.
- HYDRO SEEDING IS A TWO- STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPLIED AT A RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMAL SEEDING DATES AS LISTED IN THE NJ STANDARDS.

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION
 - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
 - B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
 - C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
 - D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
2. SEEDBED PREPARATION
 - A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES (<http://names.rutgers.edu/country/>).
 - FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE.
 - CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO CROPPES AND LEGUMES.
 - B. WORK LINE AND FERTILIZER AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
 - C. HIGH ACID PRODUCING SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.
3. SEEDING
 - A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES
 - GENERAL LAWN AREAS (SCD MIX 13 FROM TABLE 4)
 - (1) HARD FESCUE AND/OR CHEWING FESCUE AND/OR STRONG CREeping RED FESCUE - 175 LBS/ACRE 4 LBS/1000 SQ.FT.
 - (2) PERENNIAL RYEGRASS - 45 LBS/ACRE 1 LBS/1000 SQ.FT.
 - (3) KENTUCKY BLUEGRASS (BLEND) - 45 LBS/ACRE 1 LBS/1000 SQ.FT.
 - BASIN AREAS (SCD MIX 9 FROM TABLE 4)
 - (1) DEER TONGUE - 20 LBS/ACRE 0.45 LBS/1000 SQ.FT.
 - (2) REDTOP - 2 LBS/ACRE 0.05 LBS/1000 SQ.FT.
 - (3) WILD RYE (EULYMIS) - 15 LBS/ACRE 0.35 LBS/1000 SQ.FT.
 - (4) SWITCHGRASS - 25 LBS/ACRE 0.60 LBS/1000 SQ.FT.
 - B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDER OR CULTPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
 - C. AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD WHEN PERFORMED ON THE CONTOUR. SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION WILL BE PROMOTED.
 - D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.
4. MULCHING

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT ANCHOR EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEDMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

 - A. STRAW OR HAY. UNROTTED SMALL GRAM STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRUMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
 - APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST:
 1. PEG AND TWINE
 2. MULCH NETTINGS
 3. CRUMPER MULCH ANCHORING COULTER TOOL
 4. LIQUID MULCH-BINDERS
 - B. WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS. USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
 - C. PELLETIZED MULCH - COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDD AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS. SEEDD AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL, OR DESIRABLE APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

1. SITE PREPARATION
 - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
 - B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
 - C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
 - D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
2. PROTECTIVE MATERIALS
 - A. UNROTTED SMALL-GRAM STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORTFIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

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STANDARD FOR DUST CONTROL

- DEFINITION
THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.
- PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-AND OFF- SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.
- WHERE APPLICABLE
THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:
- MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY
VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOO.
SPRAY-ON ADHESIVES - ON MINERAL SOILS (NO EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT	7:1	COARSE SPRAY	1,200
EMULSION			
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300

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

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

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

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

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION
 - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING. PLANT, APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING. PLANT, APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING. PLANT, APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
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 - C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
 - D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
2. SEEDBED PREPARATION
 - A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES.
 - FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE.
 - CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO CROPPES AND LEGUMES.
 - B. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
 - C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILED IN ACCORDANCE WITH THE ABOVE.
 - D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1.
3. SEEDING
 - A. TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTHS
 - COOL SEASON GRASSES:
 - (1) PERENNIAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 0.3 INCHES.
 - (2) SPRING OATS - 86 LBS / ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.
 - (3) WINTER BARLEY - 96 LBS / ACRE; PLANT BETWEEN AUGUST 15 AND OCTOBER 1; AT A DEPTH OF 1.0 INCHES.
 - (4) ANNUAL RYEGRASS - 100 LBS / ACRE; PLANT BETWEEN MARCH 1 AND JUNE 15 BETWEEN AUGUST 1 AND SEPTEMBER 15; AT A DEPTH OF 0.5 INCHES.
 - (5) WINTER CEREAL RYE - 112 LBS / ACRE; PLANT BETWEEN AUGUST 1 AND NOVEMBER 15; AT A DEPTH OF 1.0 INCHES.
 - WARM SEASON GRASSES:
 - (1) PEARL MILLET - 20 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES.
 - (2) MILLET (GERMAN OR HUNGARIAN) - 30 LBS / ACRE; PLANT BETWEEN MAY 15 AND AUGUST 15; AT A DEPTH OF 1.0 INCHES.
 - B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, OR CULTPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDER OR CULTPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
 - C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4 MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRANSFER OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.
 - D. AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD WHEN PERFORMED ON THE CONTOUR. SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
4. MULCHING

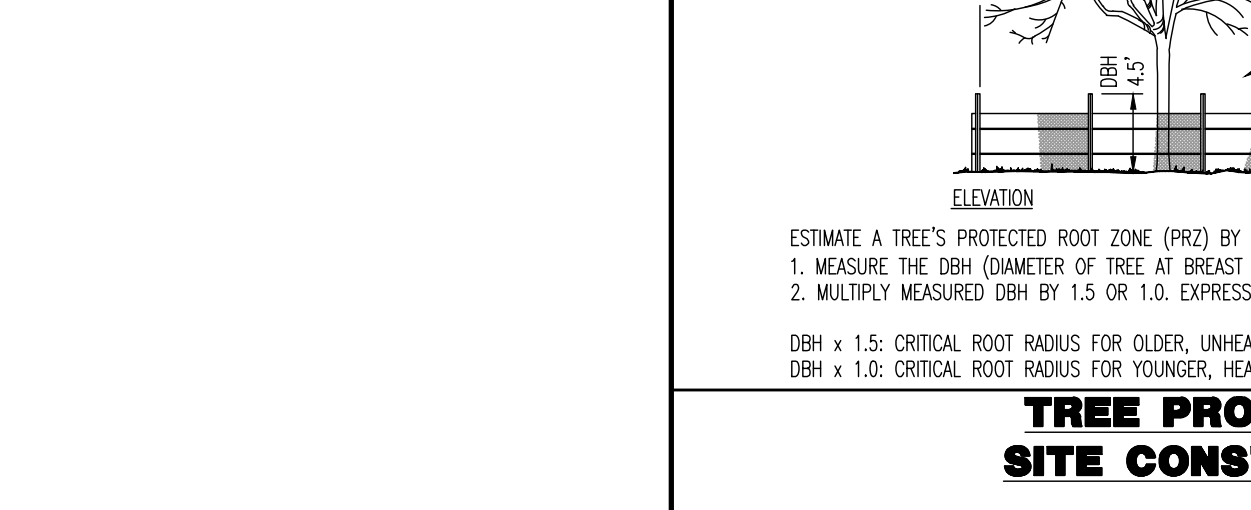
MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

 - A. STRAW OR HAY. UNROTTED SMALL GRAM STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRUMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
 - APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS IN ACCORDANCE WITH THE STATE STANDARDS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COST.
 1. PEG AND TWINE
 2. MULCH NETTINGS
 3. CRUMPER MULCH ANCHORING COULTER TOOL
 4. LIQUID MULCH-BINDERS
 - B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS. USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
 - C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDD AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS. SEEDD AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL, OR DESIRABLE.

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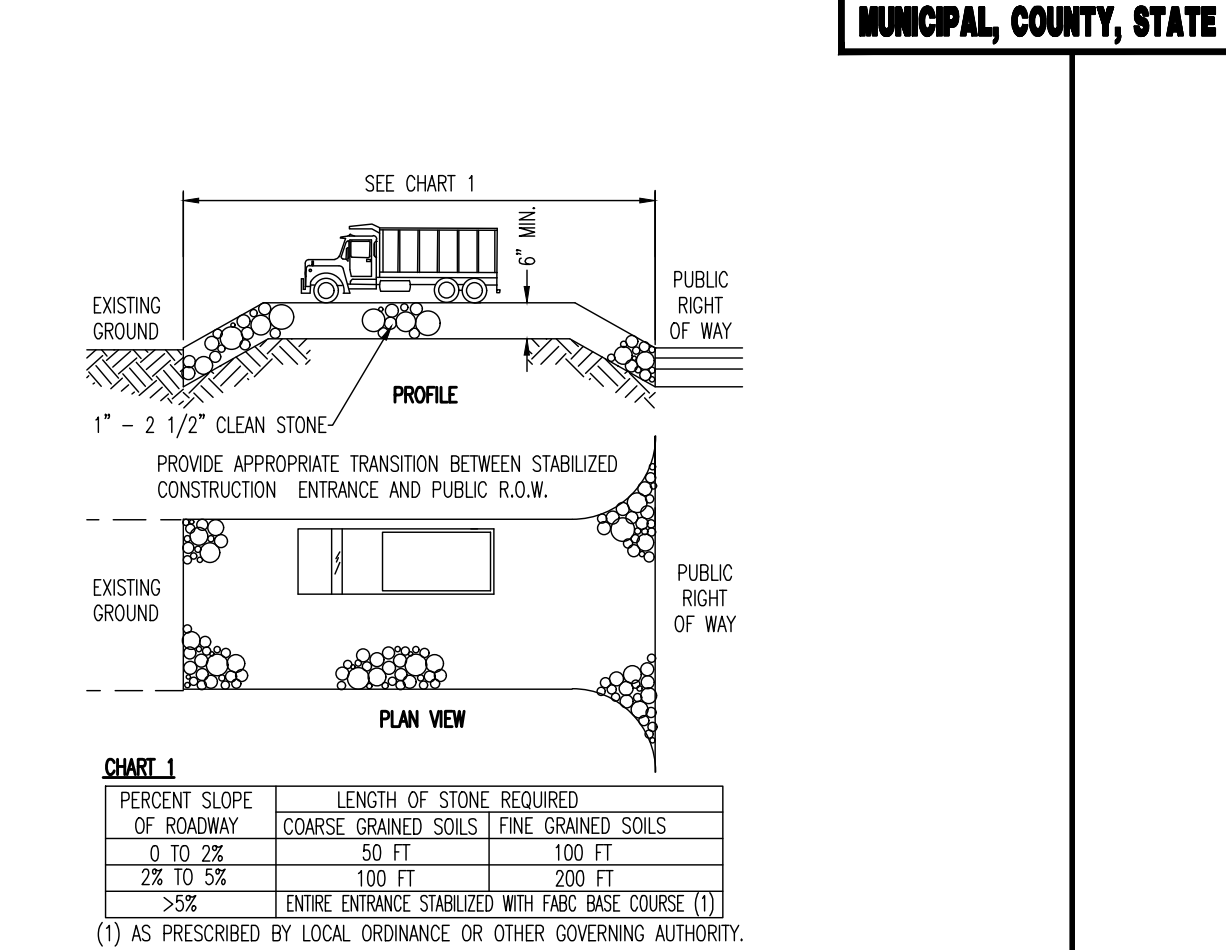
HYDRAULIC PUMP FOR CONSTRUCTION:

- PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAYBALES, SILT FENCING AND TREE PROTECTION FENCING.
- PHASE 2: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION.
- PHASE 3: EXCAVATION, CONSTRUCTION, AND STABILIZATION OF DETENTION BASIN(S). EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES.
- PHASE 4: EXCAVATE FOR BUILDING FOUNDATION.
- PHASE 5: COMPLETE BUILDING CONSTRUCTION.
- PHASE 6: EXCAVATE AND INSTALL ON-SITE IMPROVEMENTS INCLUDING CURBING, UNDERGROUND PIPING, AND DRAINAGE STRUCTURES.
- PHASE 7: FINAL GRADING ON SITE.
- PHASE 8: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING.
- PHASE 9: REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAYBALES, SILT FENCING AND TREE PROTECTION FENCING.



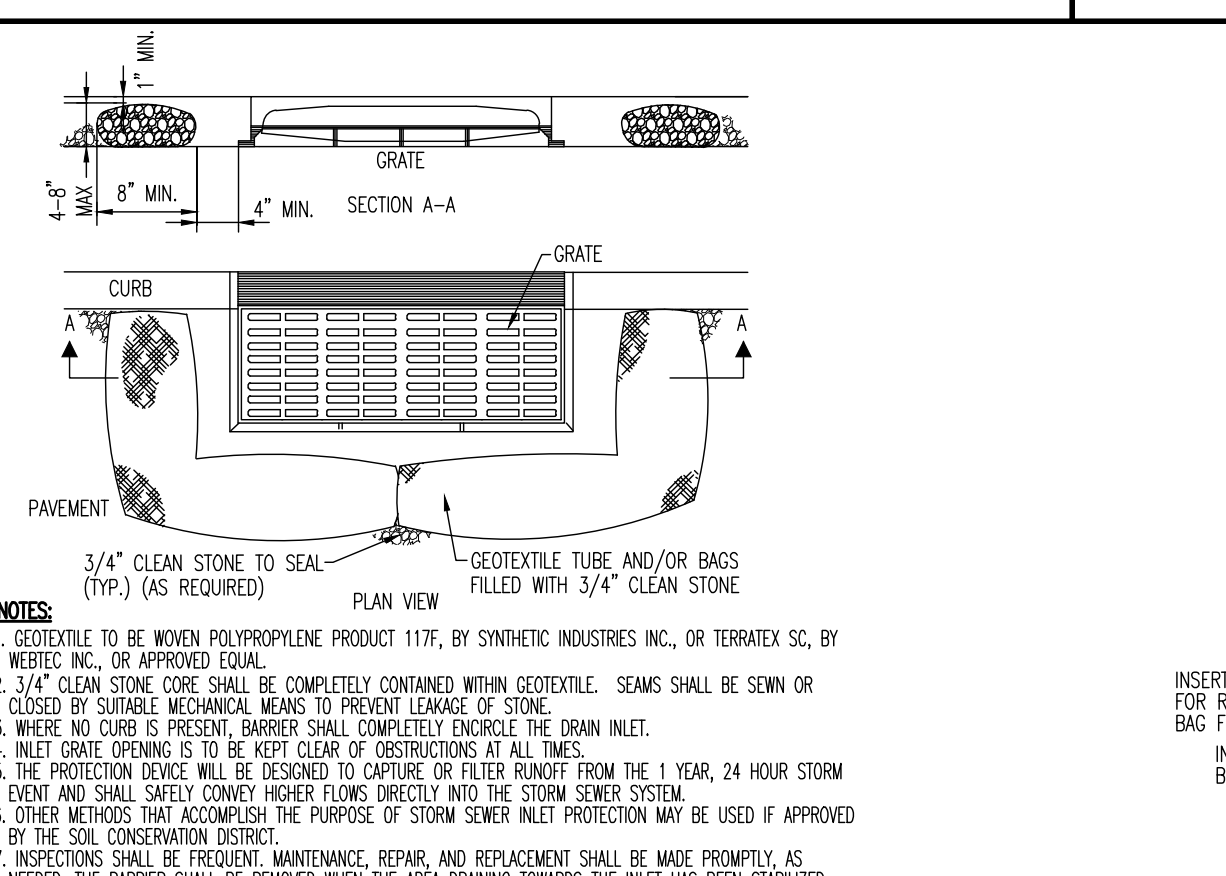
TREE PROTECTION DURING SITE CONSTRUCTION DETAIL

NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

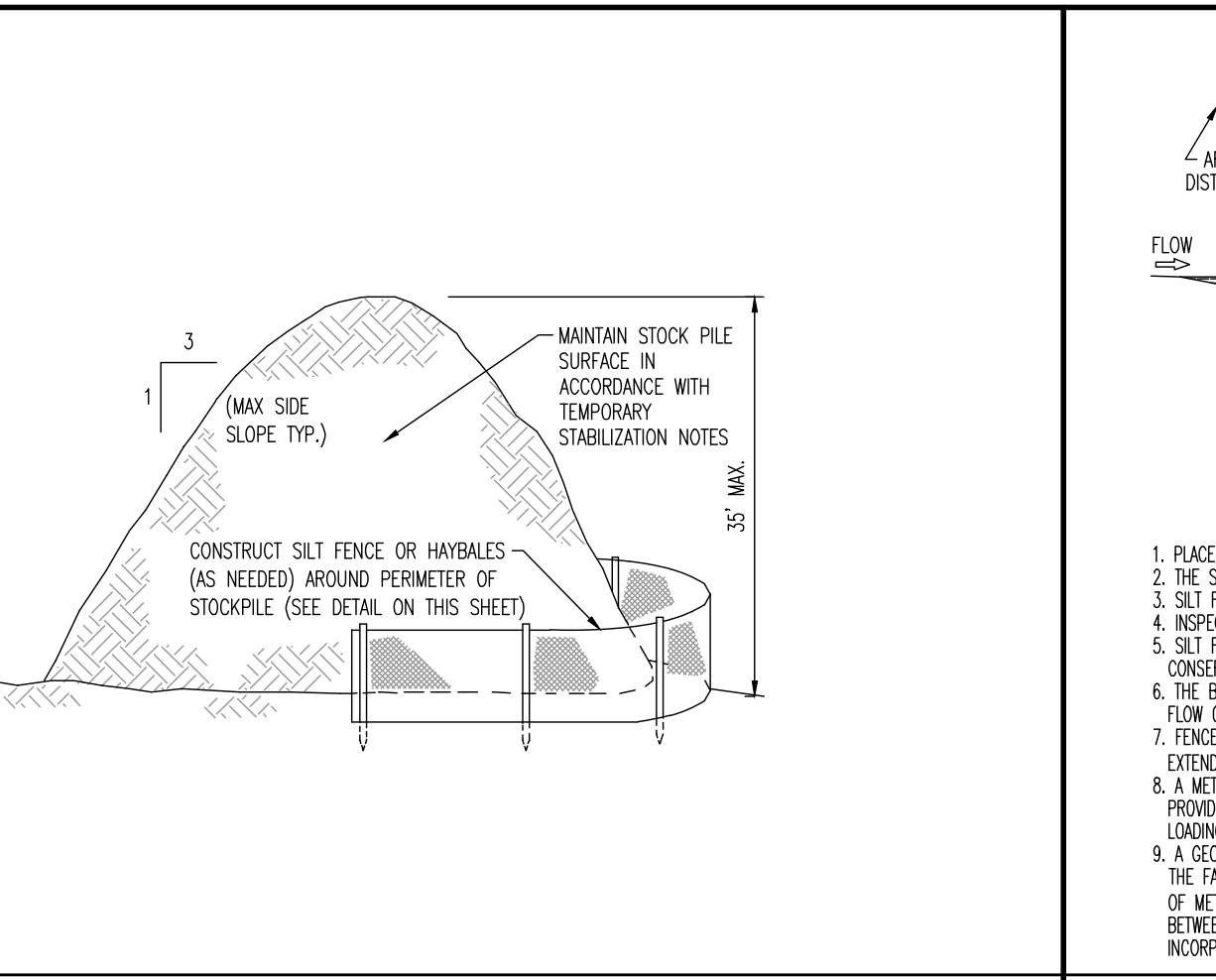


INLET FILTER, TYPE 1

NOT FOR USE WITHIN RIGHT-OF-WAY

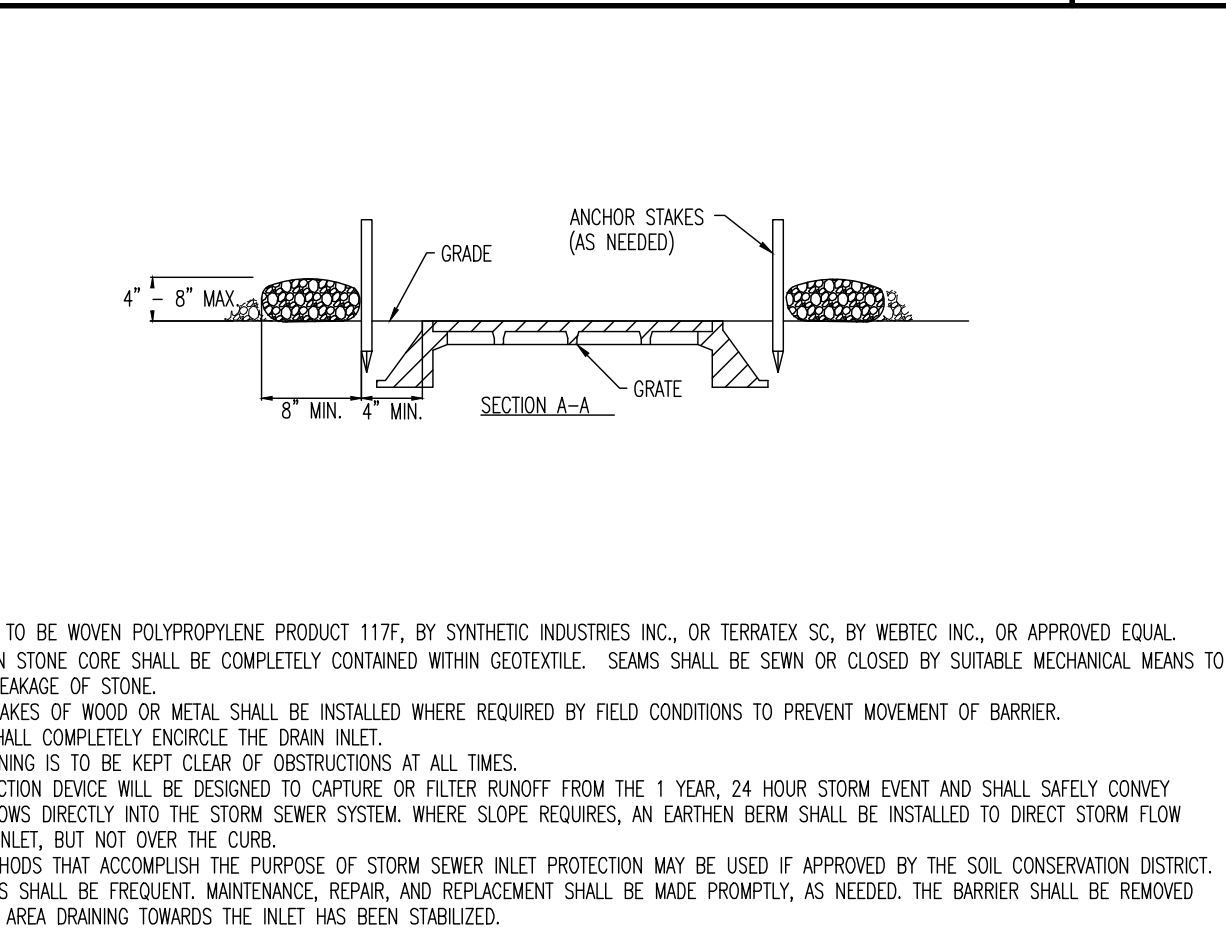
INLET FILTER COMBINED DETAIL

NOT TO SCALE



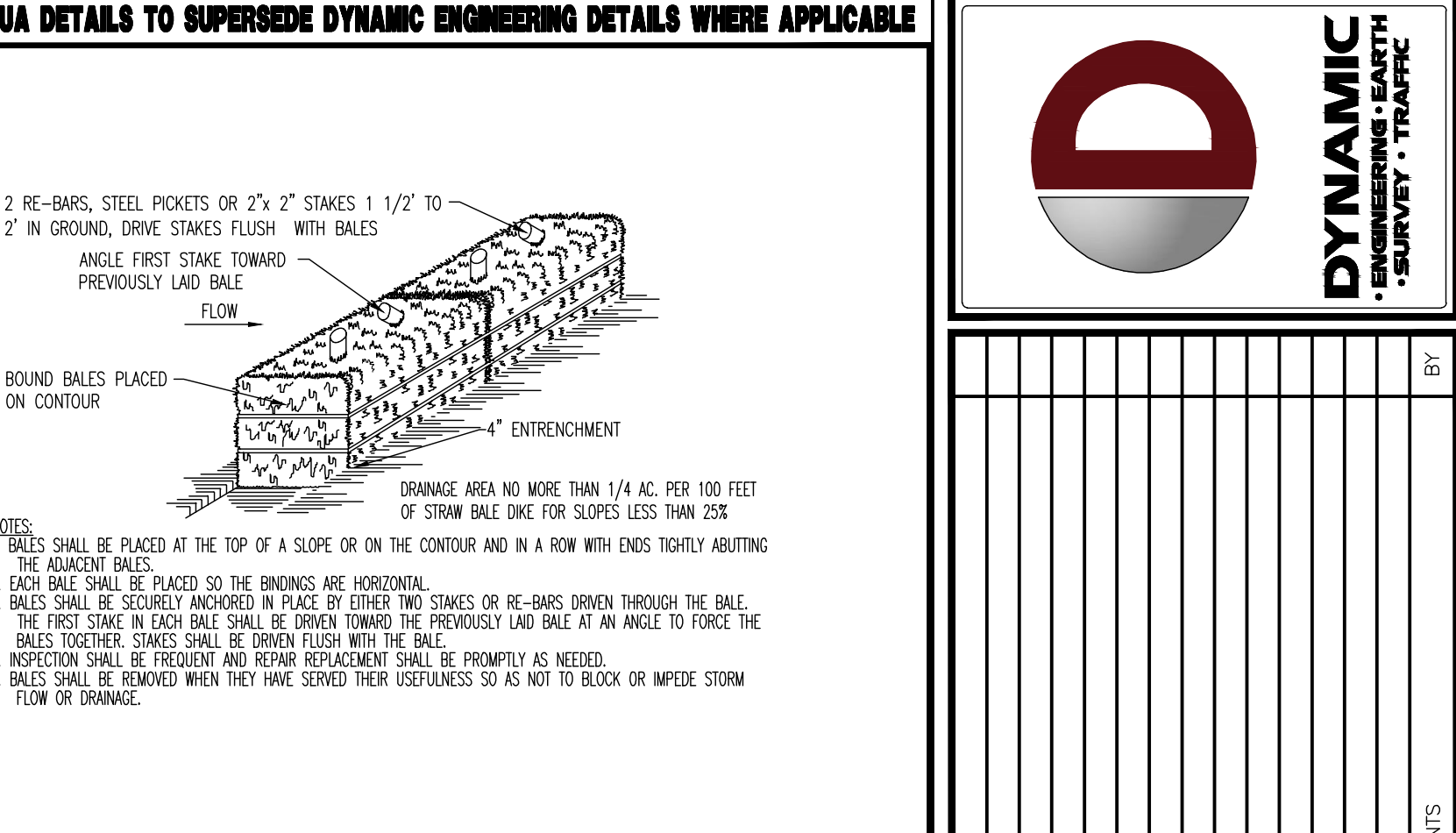
TEMPORARY STOCKPILE DETAIL

NOT TO SCALE



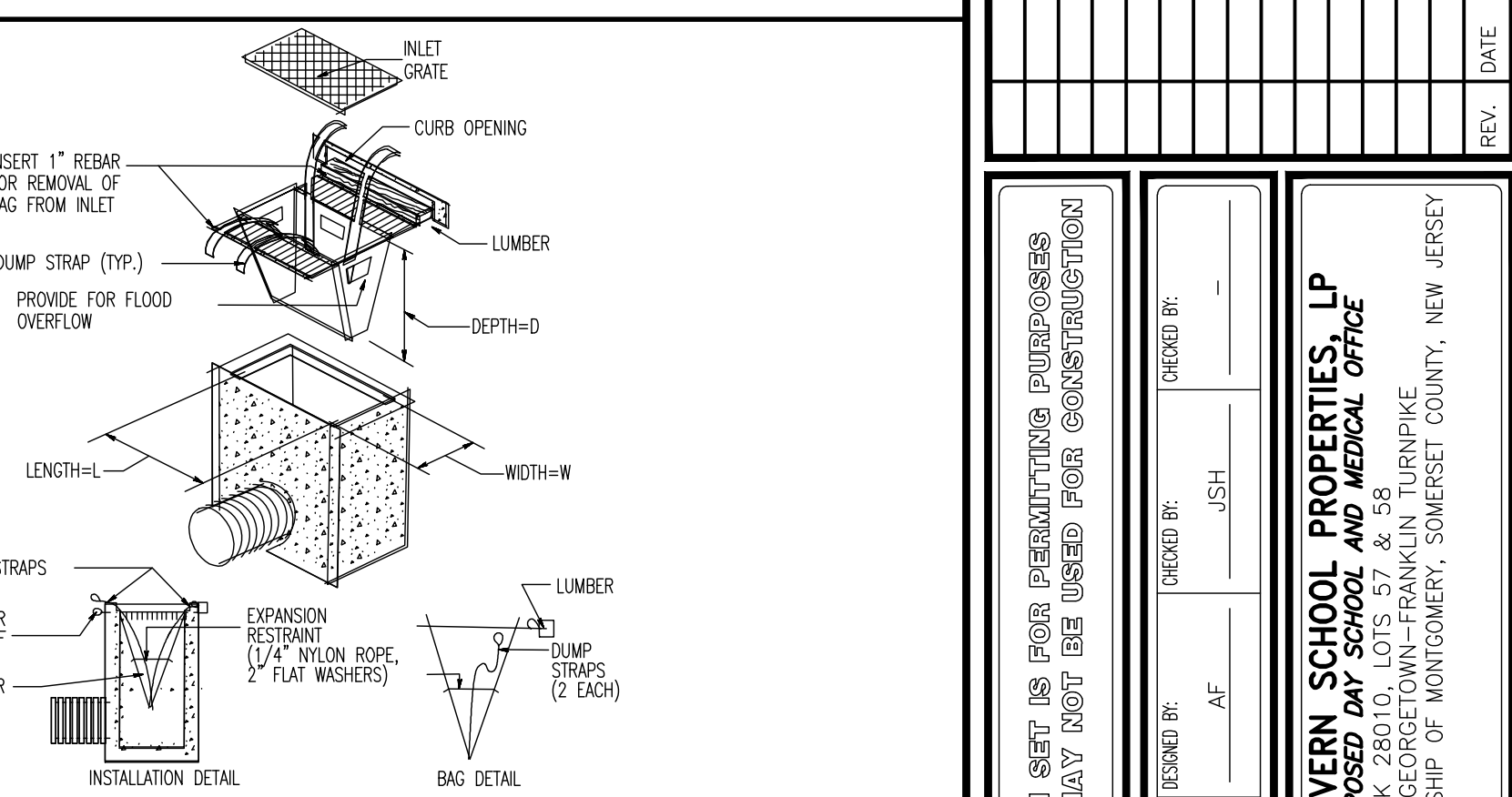
TYPE 'E' AND YARD INLET FILTER DETAIL

NOT TO SCALE



HAYBALE SEDIMENT BARRIER DETAIL

NOT TO SCALE

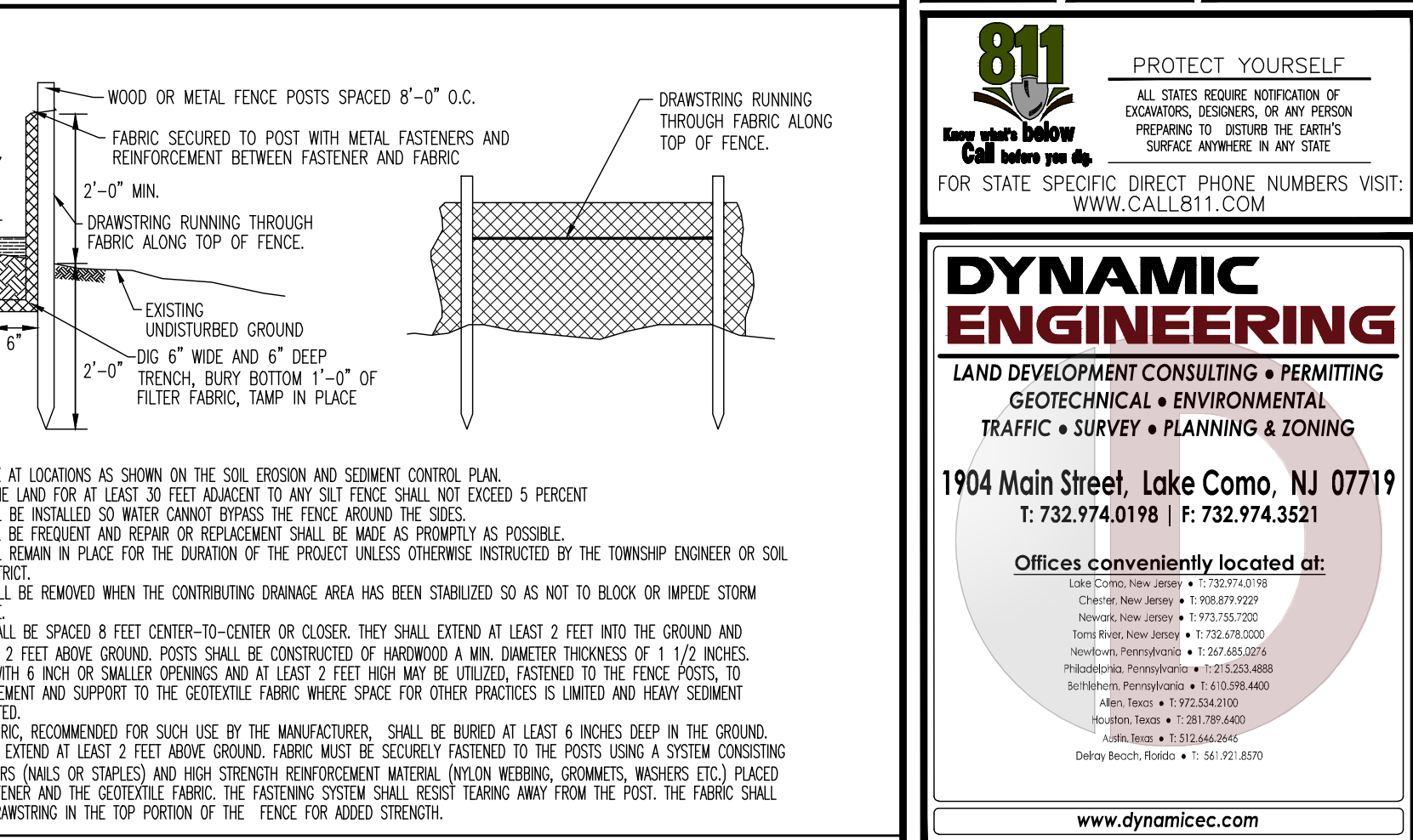


INLET FILTER, TYPE 2

ACCEPTABLE FOR USE WITHIN RIGHT-OF-WAY

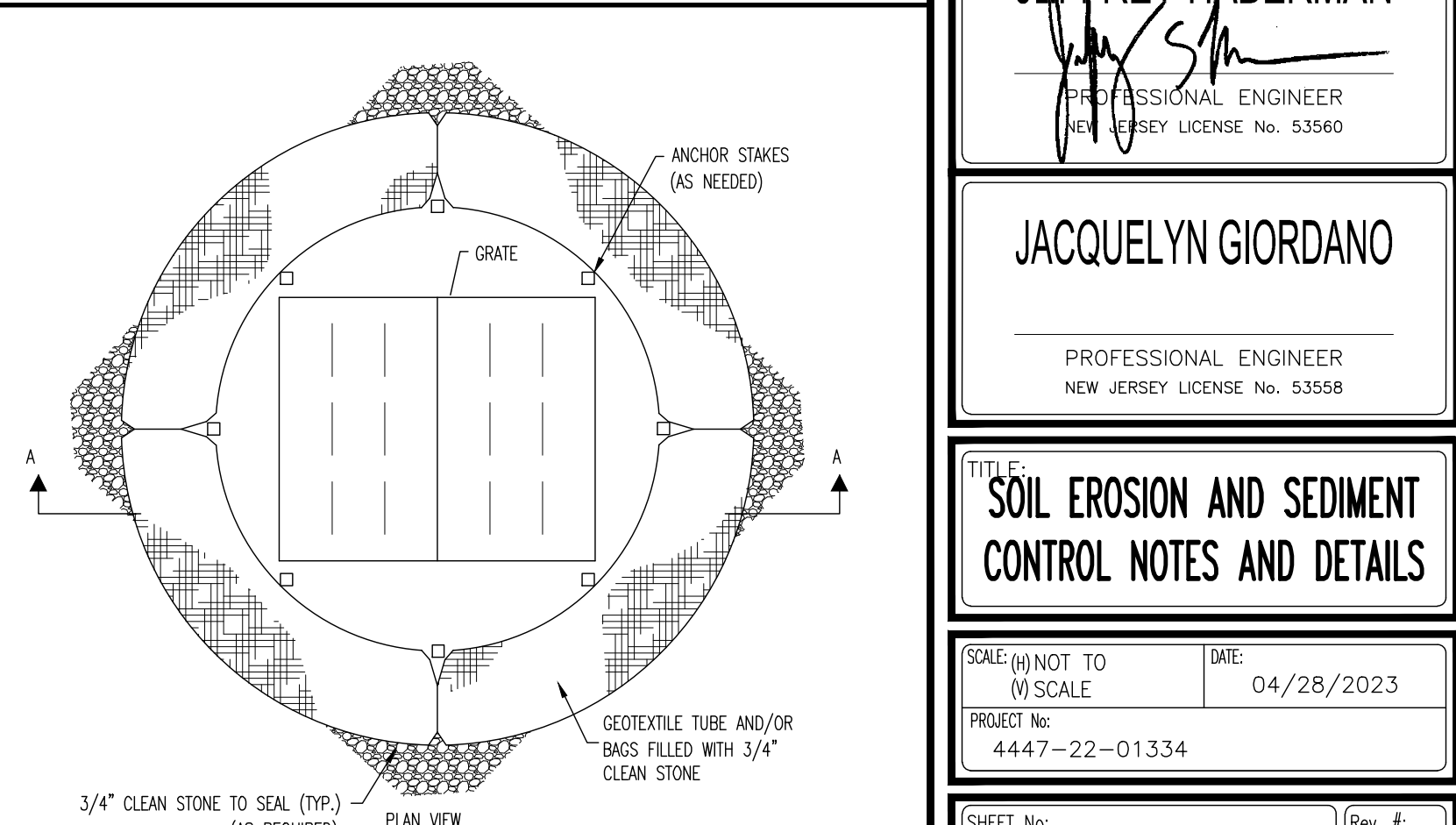
INLET FILTER COMBINED DETAIL

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE

MUNICIPAL, COUNTY, STATE AND NHA DETAILS TO SUPERSEDE DYNAMIC ENGINEERING DETAILS WHERE APPLICABLE



DYNAMIC
ENGINEERING
• SURVEY • PLANNING • TRAFFIC

REV. DATE COMMENTS

BY

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

OWNER BY: KTK

DESIGNED BY: AF

CHECKED BY: JSH

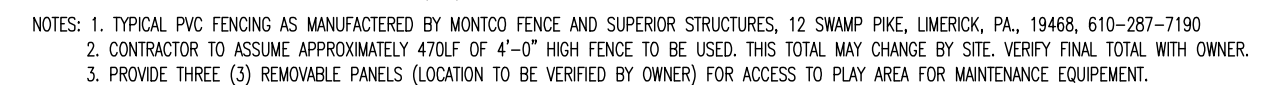
PROJECT: **MALVERN SCHOOL PROPERTIES, LP**
PROPOSED DAY SCHOOL AND MEDICAL OFFICE
BLOCK 28010, LOTS 57 & 58
592 SEACROFTOWN-FRANKLIN TURNPIKE
TOWNSHIP OF MONTGOMERY, SOMERSET COUNTY, NEW JERSEY





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NOTE: ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT
ALL PAINT TO BE THERMOPLASTIC.



NOTES:

1. DETAIL IS FOR SITE PLAN REVIEW ONLY AND SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION.
2. A DESIGN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR ALL RETAINING WALLS SHALL BE FOR REVIEW TO THE MUNICIPAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
3. WALL SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

NOT TO SCALE

**THIS PLAN SET IS FOR PERMITTING PURPOSES
ONLY AND MAY NOT BE USED FOR CONSTRUCTION**

SHEET NO.	KTK	DRAWING NO.	AF	DEVELOPER	JSH	PROJECT NO.	-
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PROJECT: MALVERN SCHOOL PROPERTIES, LP
PROPOSED DAY SCHOOL AND MEDICAL OFFICE
 LOT 2803, BLOCK 10, PHASE 1, SUNSHINE
 SEC. 13, TOWNSHIP OF FRANKLIN, NJ
 TOWNSHIP OF MONTICOMERY, SOMERSET COUNTY, NEW JERSEY

DYNAMIC ENGINEERING

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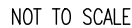
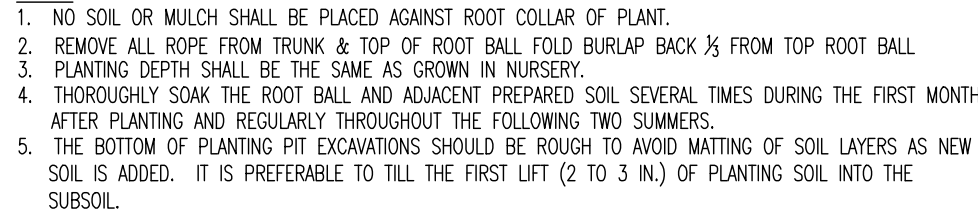
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53558

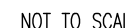
SCALE: (H) NOT TO (V) SCALE	DATE: 04/28/2023
PROJECT No: 4447-22-01334	

SHEET No: 14	Rev. #: 0
OF 20	



1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL FOLD BURLAP BACK $\frac{1}{2}$ FROM TOP ROOT BALL
3. PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
4. THOROUGHLY SOAK THE ROOT BALL AND ADJUSTED 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.



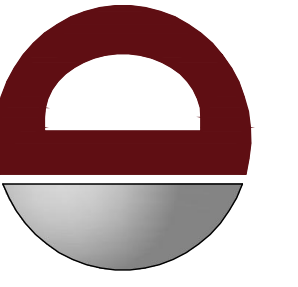
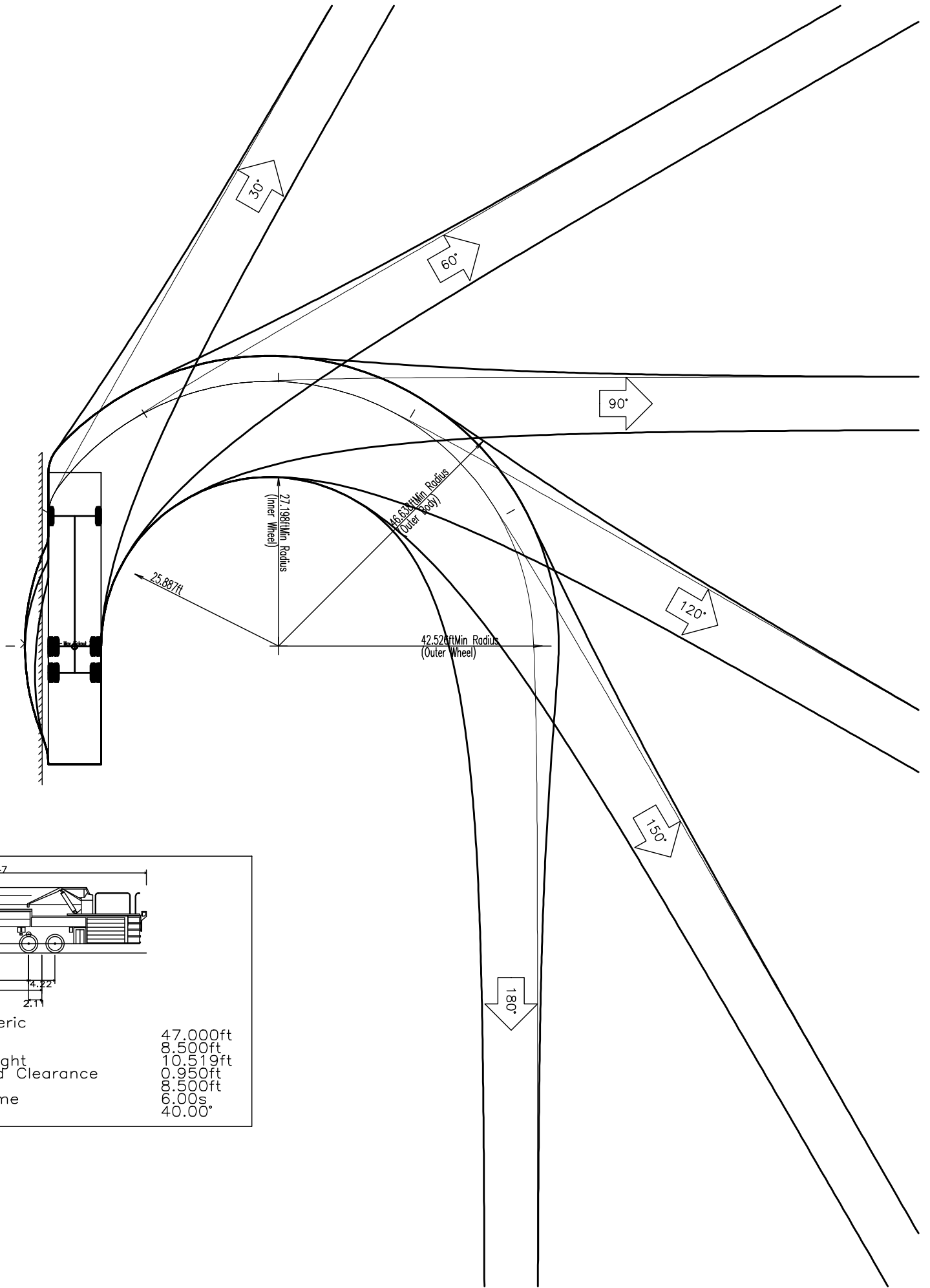
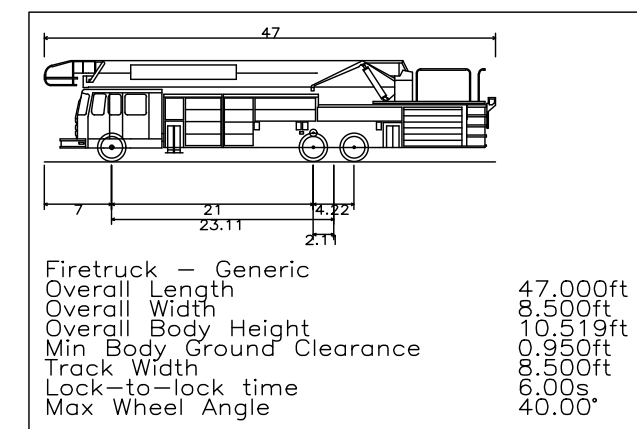
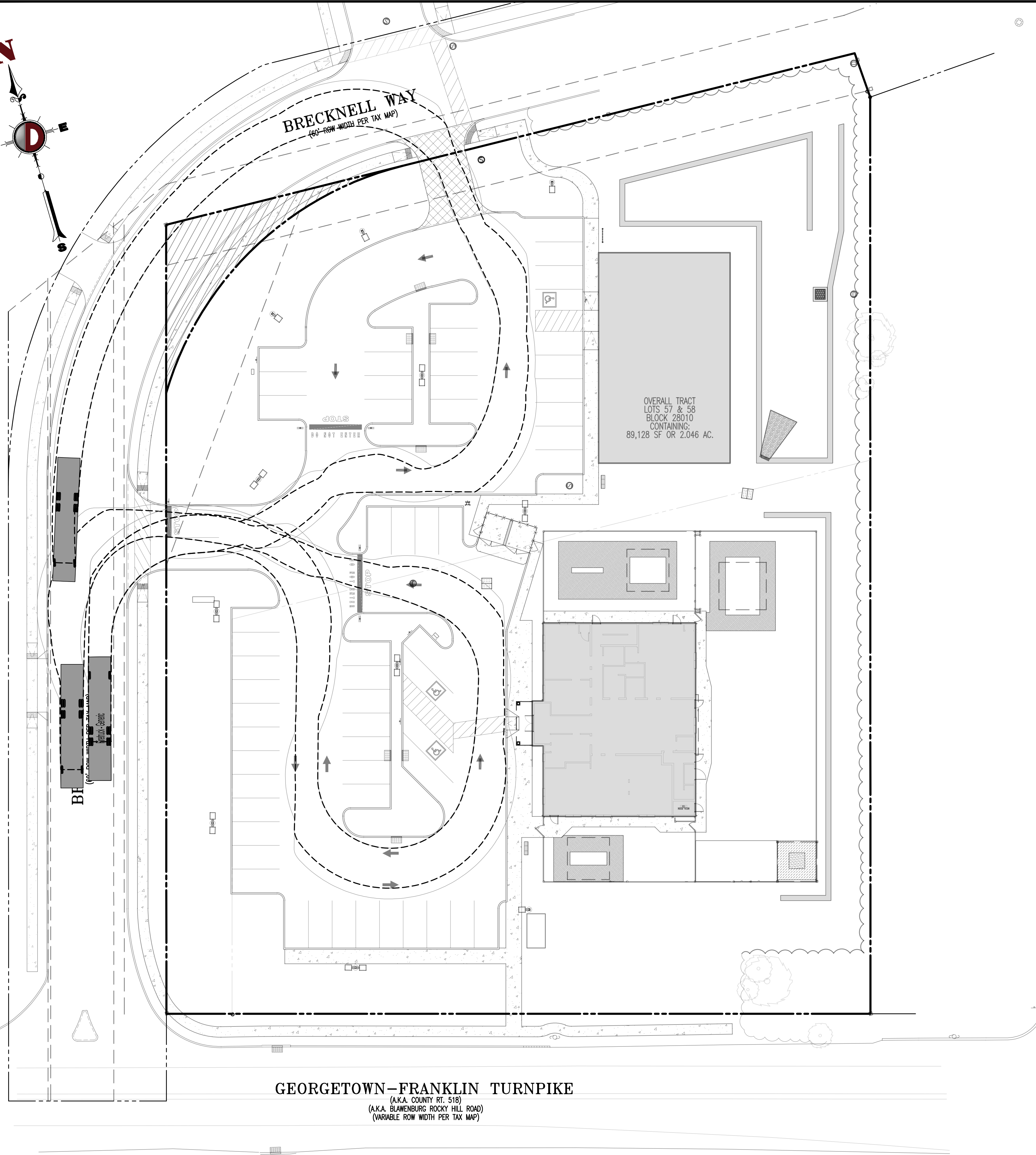
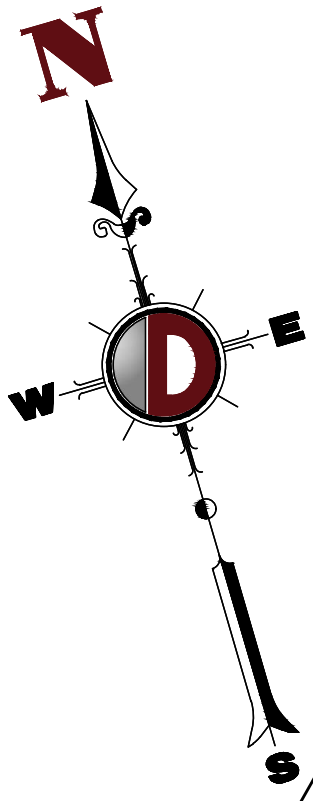


PERENNIAL/GROUND COVER PLANTING DETAIL





THIS PLAN TO BE UTILIZED FOR VEHICLE CIRCULATION PURPOSES ONLY



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[illegible]

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DESIGNED BY:	DESIGNED BY:	CHECKED BY:
KTK	AF	JSH
		-

PROJECT: **MALVERN SCHOOL PROPERTIES, LP**
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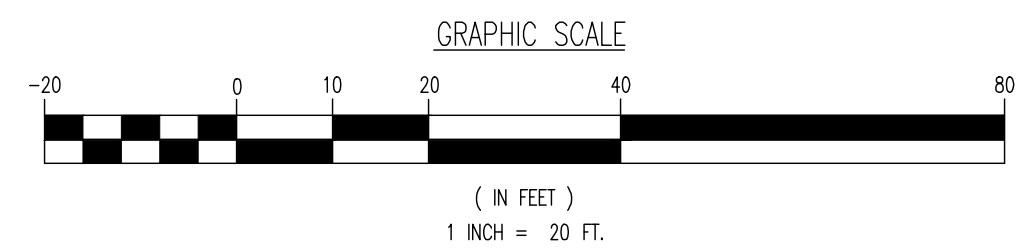
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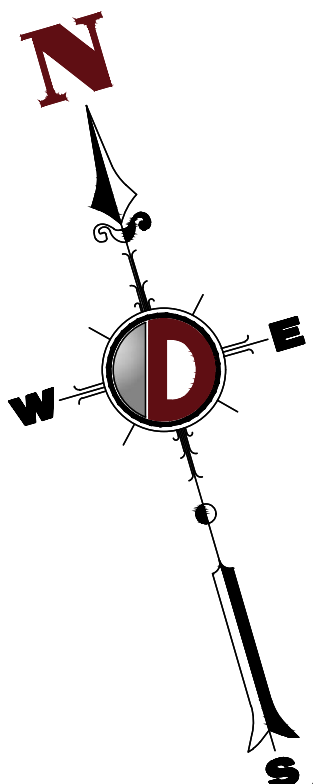
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TITLE: VEHICLE CIRCULATION
PLAN - FIRE TRUCK

SCALE: (H) 1"=20' (V)	DATE: 04/28/2023
PROJECT No: 4447-22-01334	

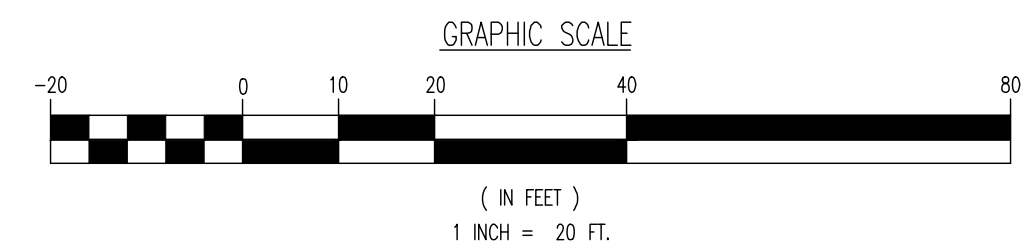
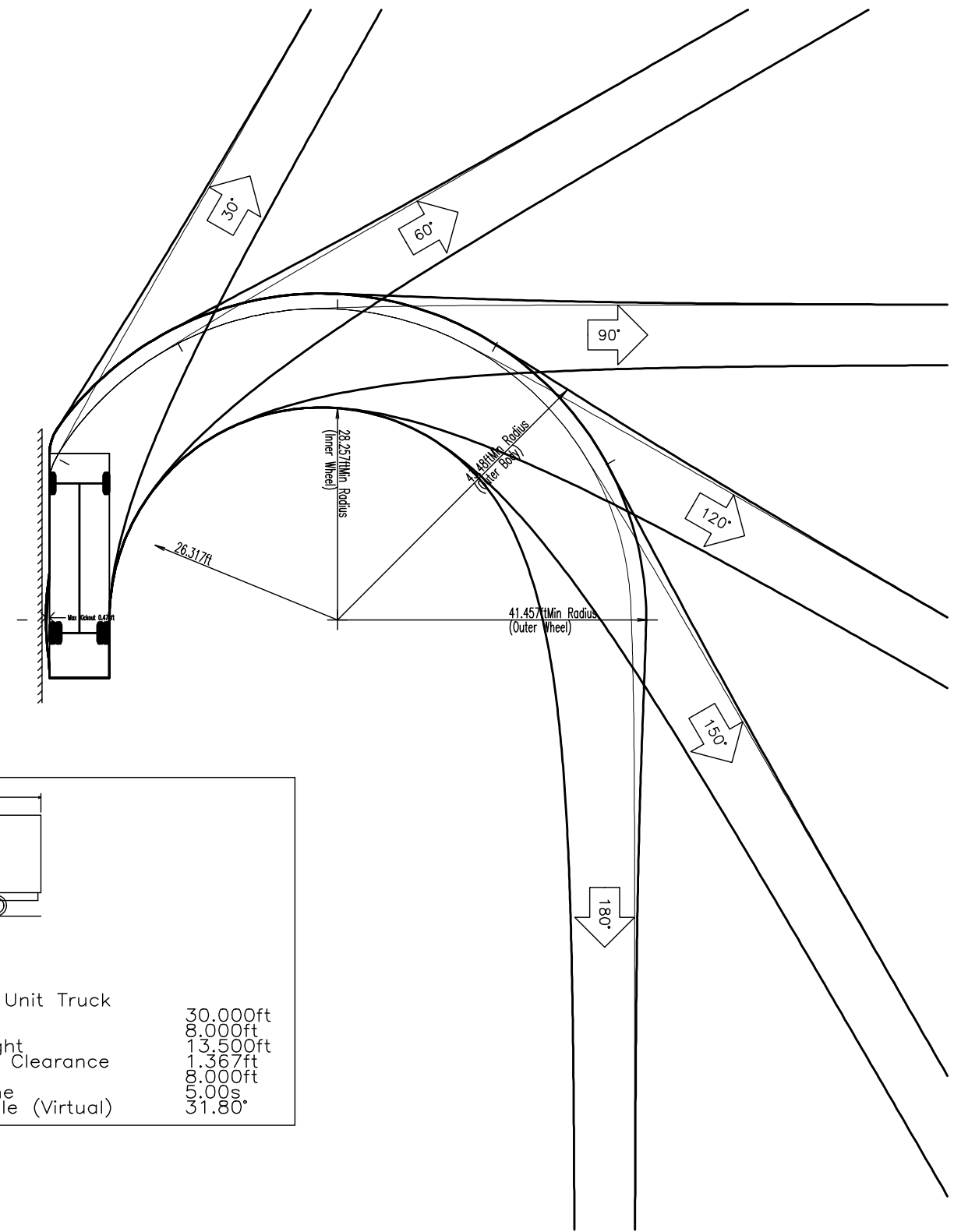
SHEET No: 18	Rev. #: 0
OF 20	





SU-30 — Single Unit Truck

Overall Length	30.000ft
Overall Width	8.000ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.367ft
Track Width	8.000ft
Lock-to-lock time	31.80°
Max Steering Angle (Virtual)	31.80°

[illegible]

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	DESIGNED BY:	CHECKED BY:	CHECKED BY:
PROGRAM BY:			

PROJECT: **MALVERN SCHOOL PROPERTIES, LP**
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NEW JERSEY LICENSE No. 33660

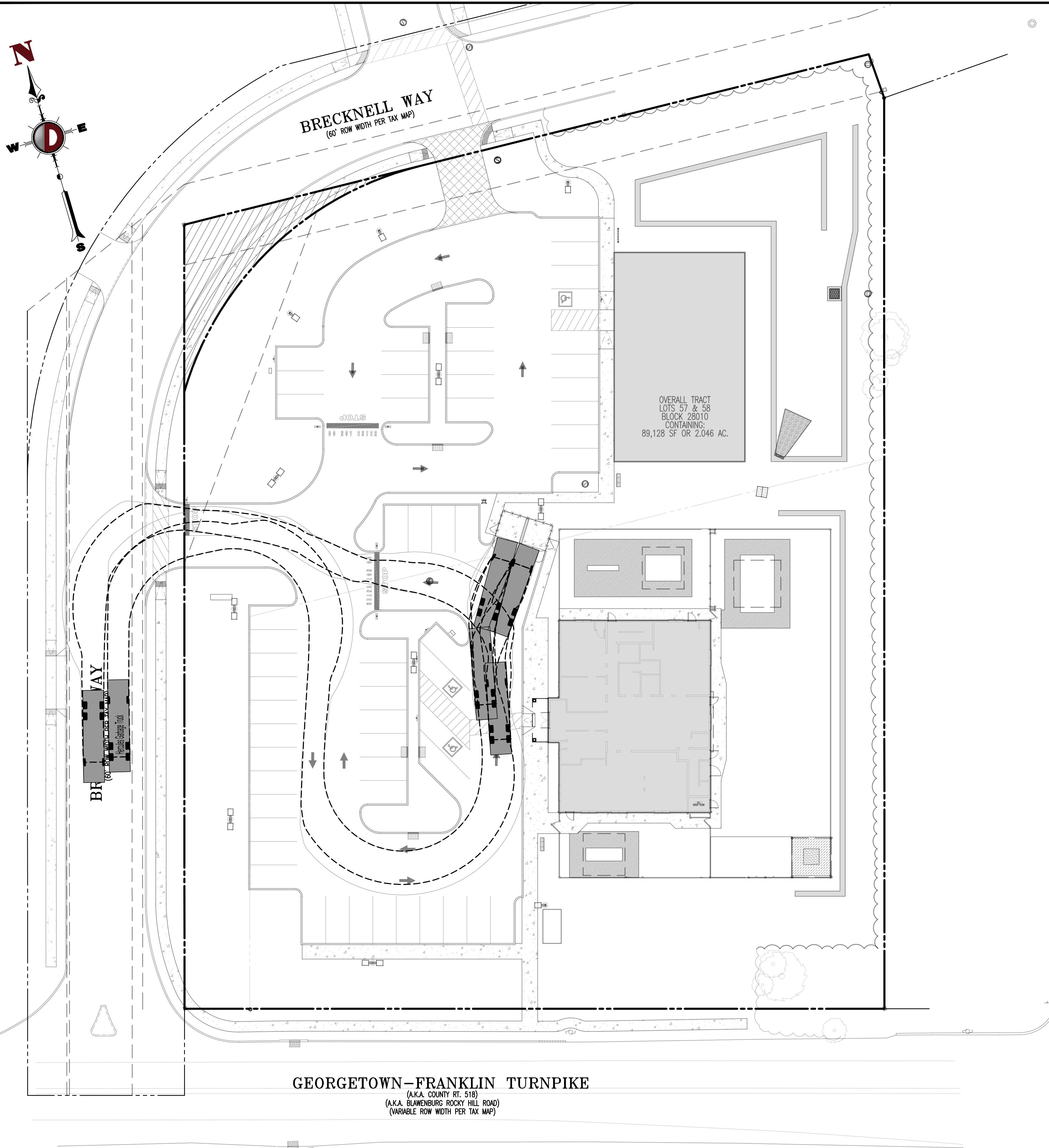
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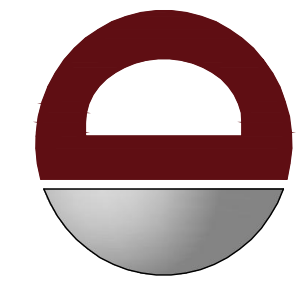
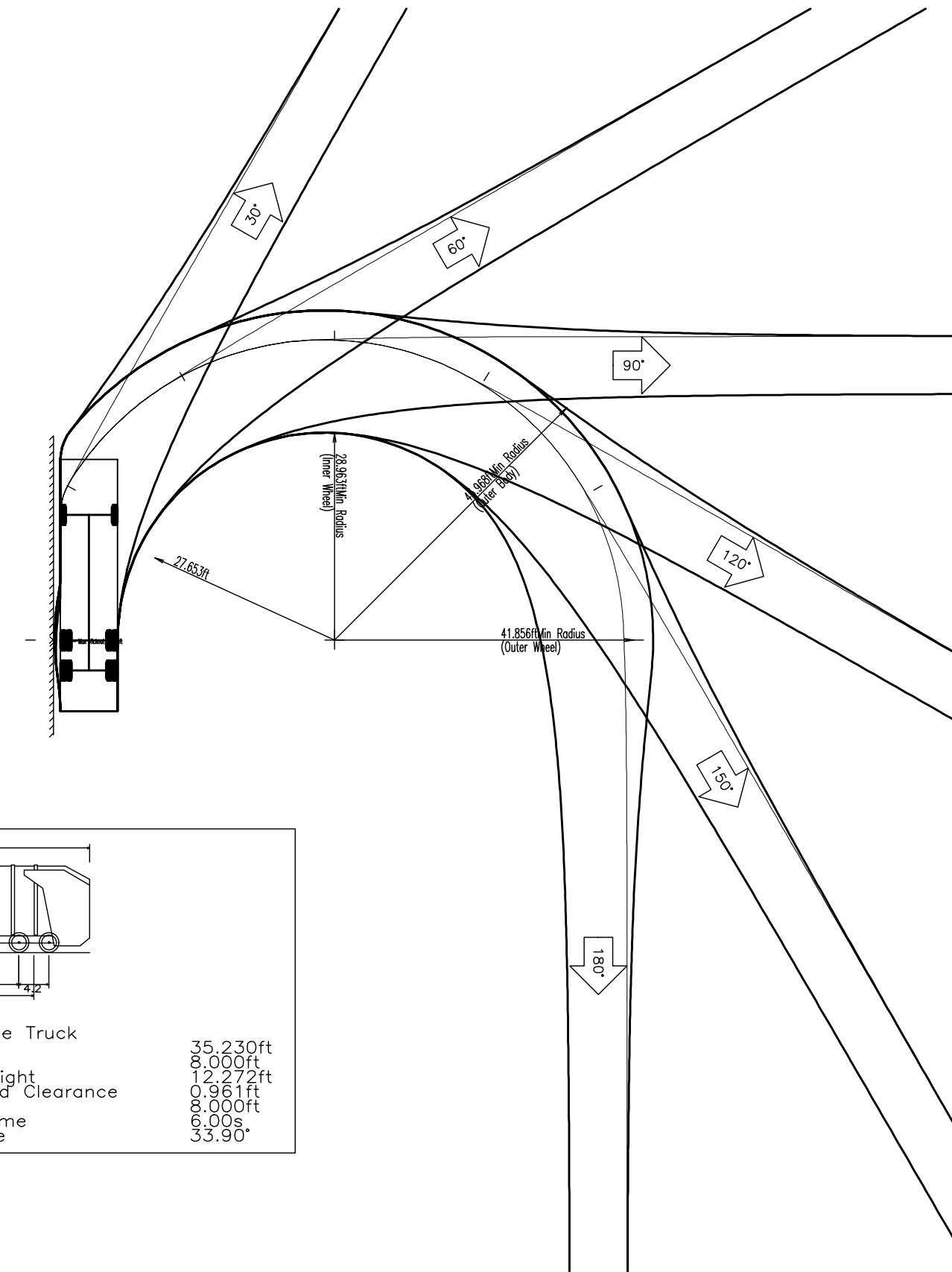
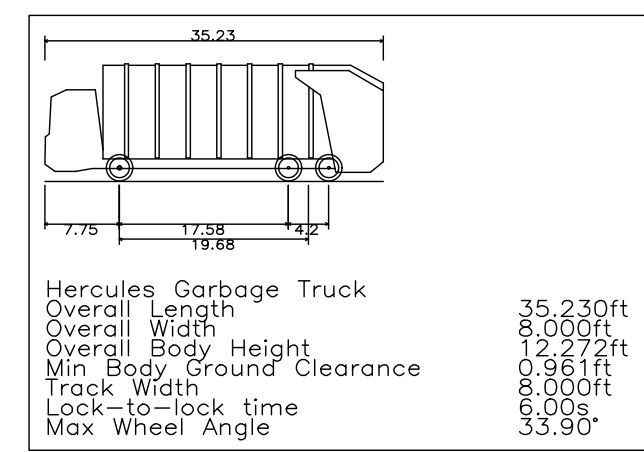
TITLE: VEHICLE CIRCULATION
PLAN - SU-30

SCALE: (H) 1"=20' (V)	DATE: 04/28/2023
PROJECT No: 4447-22-01334	

SHEET No: 19	Rev. $\frac{A}{1}$
OF 20	0



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DRAWN BY:	DESIGNED BY:	CHECKED BY:	CHECKED BY:
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JEFFREY HABERMAN

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53560

JACQUELYN GIORDANO

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53558

TITLE: **VEHICLE CIRCULATION
PLAN - REFUSE TRUCK**

SCALE: (H) 1"=20' (V).	DATE: 04/28/2023
PROJECT NO: 4447-22-01334	

SHEET No: **20** OF 30

