

PRELIMINARY MAJOR SITE PLAN

FOR 261 ETRA RD, LLC PROPOSED WAREHOUSE

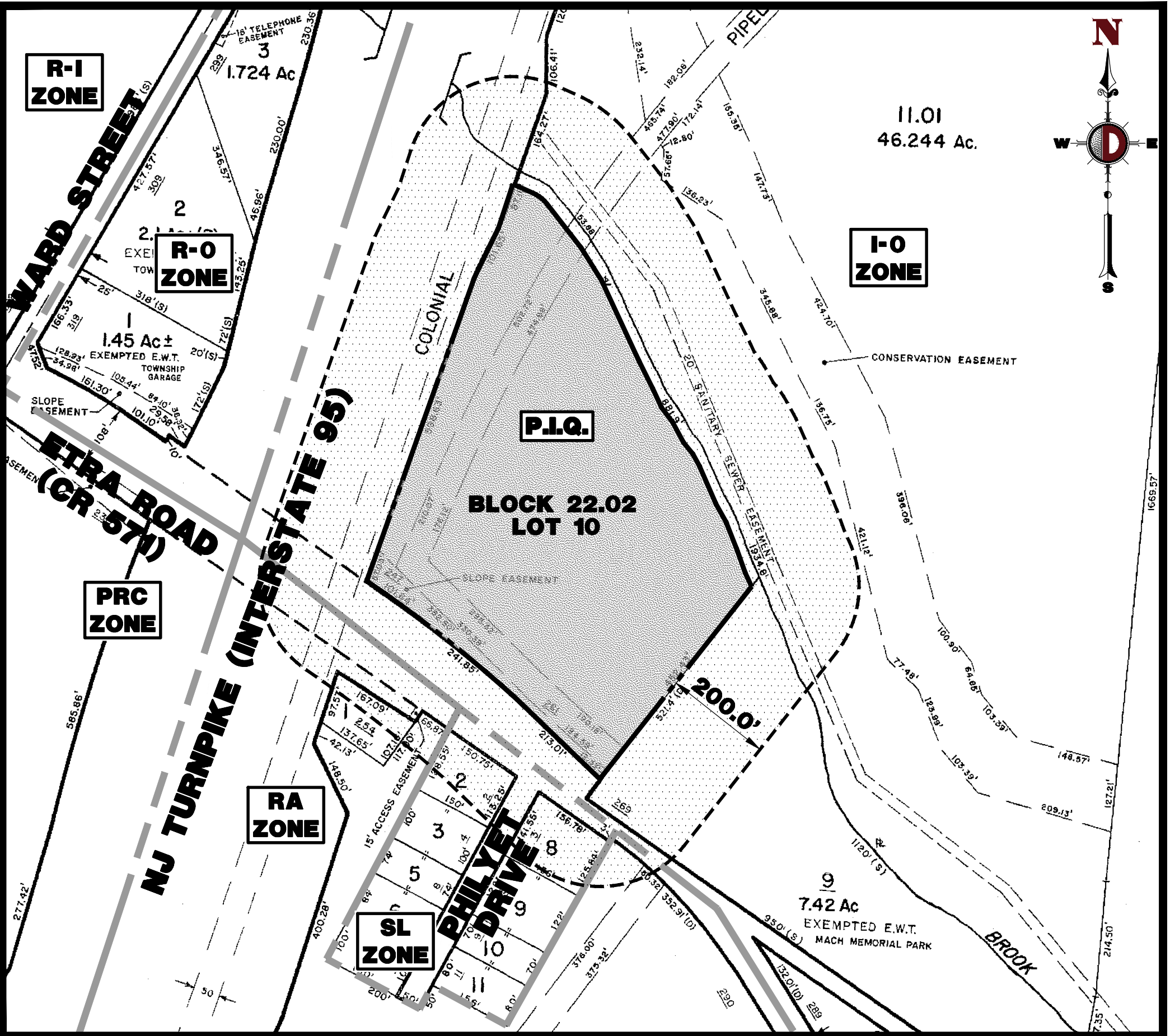
BLOCK 22.02, LOT 10; TAX MAP SHEET 19 - LATEST REV. DATED 10/1963

261 ETRA ROAD,
TOWNSHIP OF EAST WINDSOR
MERCER COUNTY, NEW JERSEY

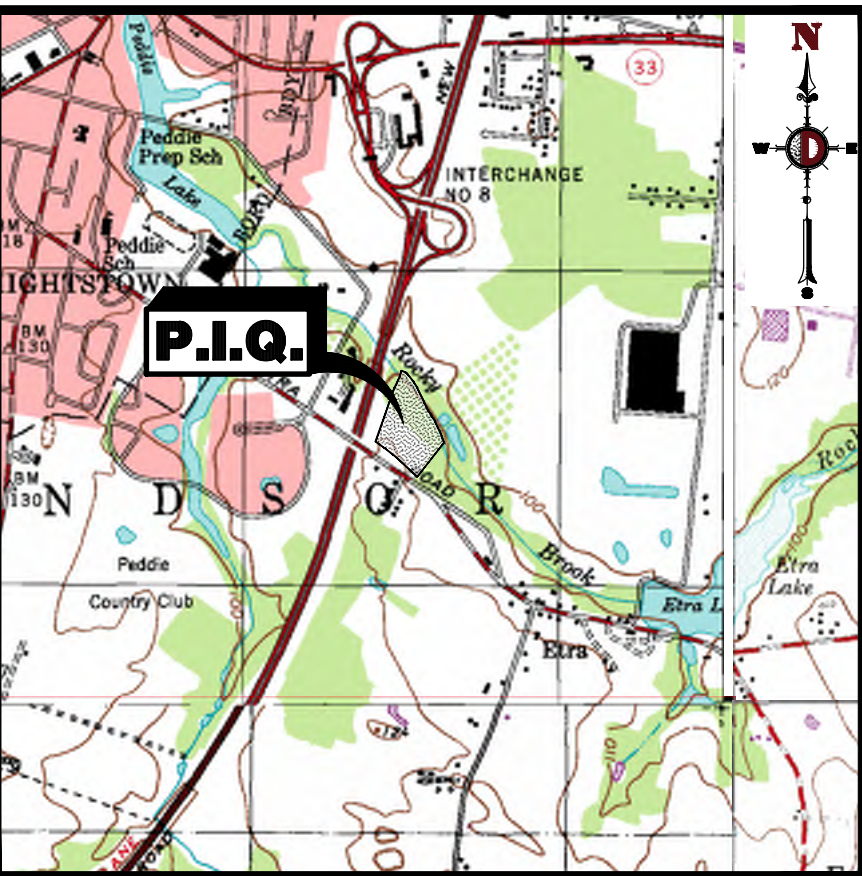
200' PROPERTY OWNERS LIST

PROPERTY OWNER	BLOCK	LOT
EAST WINDSOR TOWNSHIP 16 LANNING BOULEVARD EAST WINDSOR, NJ 08520	22.02	9
BAPS NORTH-EAST (IV) PO BOX 510 WINDSOR, NJ 08561	22.02	11.01
HERZFELD HELEN & BURTON ROBERT L 2 PHILLET DR EAST WINDSOR, NJ 08520	30	2
POSTORINO EUGENE J & ANDREA M 4 PHILLET DR EAST WINDSOR, NJ 08520	30	3
DEMARCO, RICHARD 3 PHILLET DR EAST WINDSOR, NJ 08520	30	8
GELLER, SAMUEL & BEVERLY 5 PHILLET DR EAST WINDSOR, NJ 08520	30	9
EAST WINDSOR TOWNSHIP 16 LANNING BLVD EAST WINDSOR, NJ 08520	30	12
HERZOG, RONALD 11 STANFORD COURT EAST WINDSOR, NJ 08520	30.01	1

ALSO TO BE NOTICED:
AT&T
R-4 WACHS
170 WEST MAIN ST
FREDHOLD, NJ 07728
MERCER COUNTY PLANNING BOARD
ADMINISTRATION BLDG.
P.O. BOX 8068
TRENTON, NJ 08650-8068
COMCAST CABLEVISION
GENERAL MANAGER
P.O. BOX 750, 30 LAKE DR
EAST WINDSOR, NJ 08520
PSE&C
CORPORATE SECRETARY
P.O. BOX 80
NEWARK, NJ 07101
DEPARTMENT OF TRANSPORTATION
STATE OF NEW JERSEY
1055 KENNEDY AVE
TRENTON, NJ 08650
TRANSCONTINENTAL GAS PIPE LINE CORP.
DISTRICT MANAGER
1000 SOUTH WOOD AVE
LINDEN, NJ 07036-6005
EAST WINDSOR UTILITIES AUTHORITY
MATTHEW PETER, GENERAL MANAGER
7 WILSHIRE DR
EAST WINDSOR, NJ 08520
VERIZON
CORPORATE SECRETARY
540 BROAD STREET
NEWARK, NJ 07101
JOHN C/O GPU ENERGY
CORPORATE SECRETARY
300 MADISON AVE
MORRISTOWN, NJ 07962



AREA MAP
1" = 200'



KEY MAP
1" = 2000'

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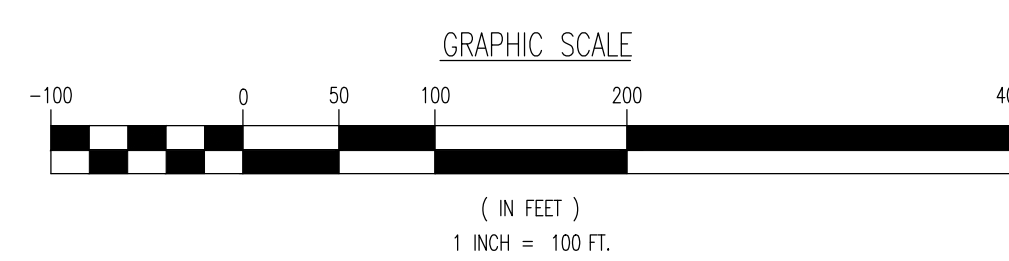
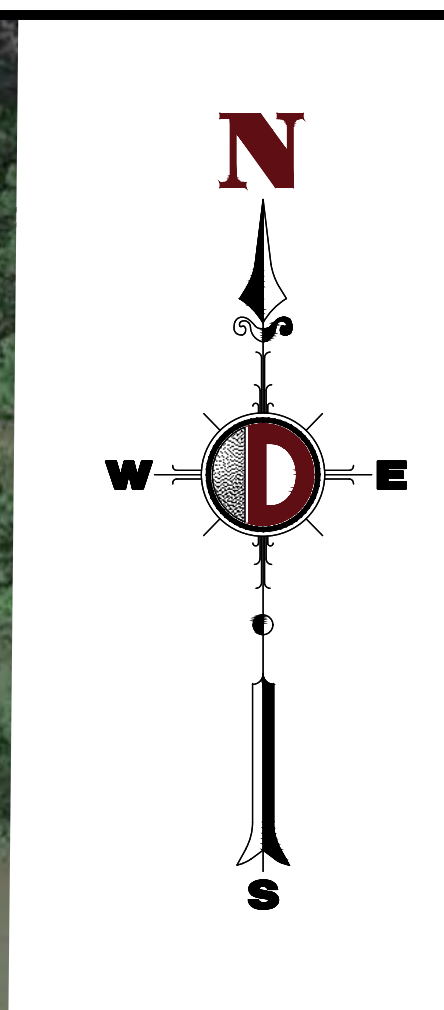
PLANNING BOARD APPROVAL

APPROVED BY THE PLANNING BOARD OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY

CHAIRMAN	DATE
SECRETARY	DATE
BOARD ENGINEER	DATE

PREPARED BY
DYNAMIC ENGINEERING CONSULTANTS, P.C.
1904 MAIN STREET
LAKE COMO, NJ 07719
WWW.DYNAMICEC.COM

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DYNAMIC ENGINEERING LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING Lake Como, New Jersey • 1.732.974.0198 Chapter, New Jersey • 1.732.974.0198 Network, New Jersey • 1.973.725.7200 Toms River, New Jersey • 1.732.974.0198 Allen, Texas • 1.972.242.0200 Austin, Texas • 1.972.242.0200 Houston, Texas • 1.281.388.4400 Dallas, Texas • 1.281.388.4400 Newtown, Pennsylvania • 1.307.485.0274 Philadelphia, Pennsylvania • 1.215.253.4888 Bethlehem, Pennsylvania • 1.610.338.4400	
TITLE: COVER SHEET	
PROJECT: 261 ETRA RD, LLC PROPOSED WAREHOUSE BLOCK 22.02, LOT 10 261 ETRA ROAD (CR 571) TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY	JOB No: 2871-99-003 DATE: 10/14/2021 DRAWN BY: MFZ DESIGNED BY: TAZ CHECKED BY: TJM THOMAS J. MULLER PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 52179
JOHN A. PALUS PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41975	SCALE: (H) AS SHOWN SHEET No: 1 OF 19 PROTECT YOURSELF ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEW JERSEY ENGINEERING ACT AND THE NEW JERSEY PROFESSIONAL ENGINEER ACT. FOR SITE, STREET, STREET PHONE NUMBERS VISIT: WWW.CALL811.COM



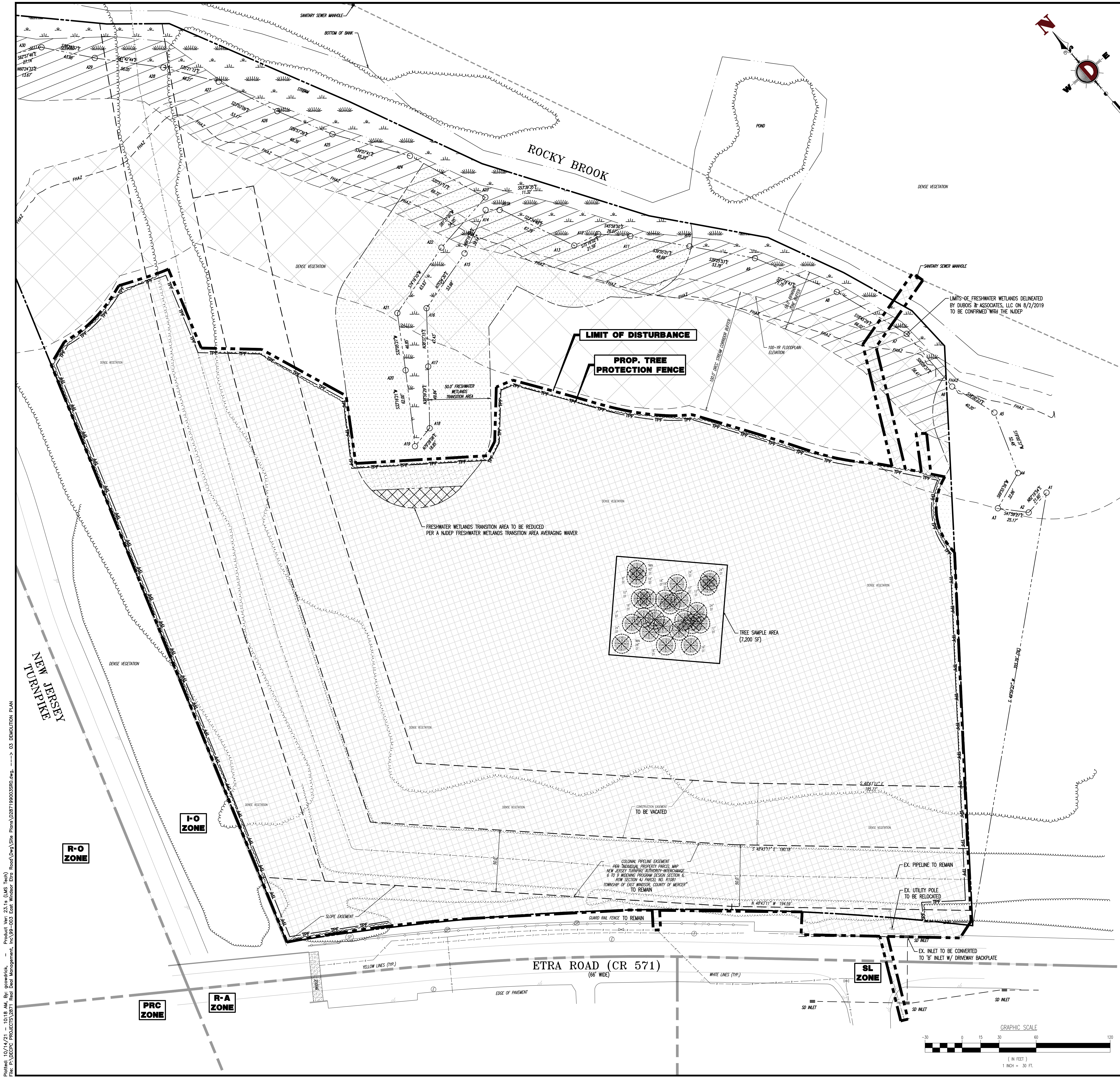
THE AERIAL IMAGE DEPICTED ON THIS PLAN IS BASED ON IMAGERY PREPARED BY DIGITAL GLOBE, GED EYE AND USDA FARM SERVICE AGENCY. THIS IMAGERY WAS PROVIDED BY GOOGLE MAPS ON 05/14/2021. THE CONDITIONS OF THE SITE AND SURROUNDING AREAS MAY HAVE CHANGED SINCE THE DATE OF AERIAL PHOTOGRAPHY AND THEREFORE THIS PLAN MAY NOT ACCURATELY REFLECT ALL CURRENT EXISTING CONDITIONS.

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

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Allen, Texas: T 972.342.0200 | Austin, Texas: T 972.342.0200 | Houston, Texas: T 281.388.4400 | Oakton, Virginia: T 703.521.8270
Newtown, Pennsylvania: T 307.485.0274 | Philadelphia, Pennsylvania: T 215.253.4888 | Bethlehem, Pennsylvania: T 610.338.4400

TITLE: AERIAL MAP	
PROJECT: 261 ETRA RD, LLC PROPOSED WAREHOUSE BLOCK 22.02, LOT 10 261 ETRA ROAD (CR 571) TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY	JOB No: 2871-99-003 DATE: 10/14/2021 DRAWN BY: MFZ DESIGNED BY: TAZ CHECKED BY: TJM THOMAS J. MULLER PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 52179
JOHN A. PALUS PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41975	DATE: 10/14/2021 SCALE: (H) 1"=100' (V) 1"=100' SHEET No: 2 OF 19 Rev. # 0

Printed: 10/14/21 - 9:54 AM By: gowatnick Product Ver: 23.1 (LMS Tech)
File: P:\Users\gowatnick\OneDrive\2021\Road\261 ETRA Road\261 ETRA Road.dwg User: gowatnick Date: 10/14/21 9:54 AM
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DEMOLITION NOTES

1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
7. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED FUTURE FOUNDATION OR BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO DEMOLITION TO DETERMINE IF BASEMENT, GROUND SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
11. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FRESH MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO PROTECT AND PRESERVE ANY EXISTING OR STANDING WATER, FRESH, FRESHWATER, TANKS, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOUR DRAINAGE.
16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES. THE REQUIRED INTERFERENCE OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.

NOTES

1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

TREE REPLACEMENT NOTES

A. TREE REMOVAL CALCULATION (§ 12A-7a):				
SIZE OF TREE	TREE SAMPLE AREA	NO. OF TREES	NO. OF TREES PER ACRE	WOODED AREA LIMIT OF DISTURBANCE
GREATER THAN 5" AND UP TO 12" CALIPER	7,200 SF	9	54.45	4.54 Ac. (197,868 SF)
GREATER THAN 12" AND UP TO 18" CALIPER	7,200 SF	7	42.35	4.54 Ac. (197,868 SF)
GREATER THAN 18" AND UP TO 24" CALIPER	7,200 SF	4	24.2	4.54 Ac. (197,868 SF)
GREATER THAN 24" IN CALIPER	7,200 SF	2	12.1	4.54 Ac. (197,868 SF)

B. ANY LIVING TREE REMOVED SHALL BE REPLACED BASED ON THE FOLLOWING: (§ 12A-7a)			
SECTION	REQUIREMENTS	REPLACEMENT TREE CALCULATION	REPLACEMENT TREES PROVIDED
§14A-7a	THERE SHALL BE ONE (1) REPLACEMENT TREE OF 2" - 2 1/2" IN CALIPER REQUIRED FOR EVERY TREE REMOVED GREATER THAN 5" AND UP TO 12" IN CALIPER OR \$240.00/TREE REMOVED	(248 TREES REMOVED) X (1 REPLACEMENT TREE/TREE REMOVED) = 248 REPLACEMENT TREES OF 2" - 2 1/2" CALIPER REQUIRED	233 TREES WITH 2" - 2 1/2" CALIPER PROVIDED AND \$3,600.00 REQUIRED
	THERE SHALL BE ONE (1) REPLACEMENT TREE OF 3" - 3 1/2" IN CALIPER REQUIRED FOR EVERY TREE REMOVED GREATER THAN 5" AND UP TO 12" IN CALIPER OR \$480.00/TREE REMOVED	(248 TREES REMOVED) X (1 REPLACEMENT TREE/TREE REMOVED) = 248 REPLACEMENT TREES OF 3" - 3 1/2" CALIPER REQUIRED	\$119,040.00 REQUIRED
	THERE SHALL BE TWO (2) REPLACEMENT TREES OF 2" - 2 1/2" IN CALIPER REQUIRED FOR EVERY TREE REMOVED GREATER THAN 12" AND UP TO 18" IN CALIPER OR \$480.00/TREE REMOVED	(183 TREES REMOVED) X (2 REPLACEMENT TREES/TREE REMOVED) = 366 REPLACEMENT TREES OF 2" - 2 1/2" - 3" CALIPER REQUIRED	\$84,920.00 REQUIRED
	THERE SHALL BE THREE (3) REPLACEMENT TREES OF 3" IN CALIPER REQUIRED FOR EVERY TREE REMOVED GREATER THAN 18" AND UP TO 24" IN CALIPER OR \$540.00/TREE REMOVED	(110 TREES REMOVED) X (3 REPLACEMENT TREES/TREE REMOVED) = 330 REPLACEMENT TREES OF 3" CALIPER REQUIRED	\$92,400.00 REQUIRED
	THERE SHALL BE FOUR (4) REPLACEMENT TREES OF 3" IN CALIPER REQUIRED FOR EVERY TREE REMOVED GREATER THAN 24" IN CALIPER OR \$1,680.00/TREE REMOVED	(55 TREES REMOVED) X (4 REPLACEMENT TREES/TREE REMOVED) = 220 REPLACEMENT TREES OF 3" CALIPER REQUIRED	\$92,400.00 REQUIRED
TOTAL:			\$392,360.00 REQUIRED

C. THE APPLICANT WILL RECEIVE A ONE (1) FOR ONE REPLACEMENT TREE CREDIT SHOULD STANDS OF TEN (10) OR MORE TREES GREATER THAN FIVE (5) INCHES IN CALIPER BE PRESERVED WITHIN THE LIMIT OF DISTURBANCE LINE. THE TOWNSHIP ZONING OFFICER SHALL DETERMINE THE LIMIT OF DISTURBANCE LINE FOR APPLICATION OF REPLACEMENT TREE CREDIT PROVISIONS OF THIS ORDINANCE. (§ 12A-7a)

D. ALL REPLACEMENT TREES SHALL BE PLANTED ON SITE IN ACCORDANCE WITH THE FOREGOING. HOWEVER, IF ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST, SOME OR ALL OF THE REPLACEMENT TREES MAY BE PLANTED OFF-SITE. THE APPLICANT SHALL MAKE PAYMENT TO THE TREE ESCROW FUND ON THE TREE ESCROW FUND BASED UPON THE ABOVE CHART, OR (§ 12A-7a, c.)

E. THE ZONING OFFICER AND APPLICANT AGREE IN WRITING THAT THE APPLICANT SHALL MAKE PAYMENT TO THE TREE ESCROW FUND BASED UPON THE ABOVE CHART, OR (§ 12A-7a, c.)

F. THE ZONING OFFICER AND APPLICANT AGREE IN WRITING THAT THE APPLICANT SHALL PLANT REPLACEMENT TREES OFF-SITE ON MUNICIPALLY OWNED PROPERTY. (§ 12A-7a, c.)

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 REPLANTED/RELOCATED

LIMIT OF DISTURBANCE = 270,301 SF. (6.205 Ac.)

WOODED AREA LIMIT OF DISTURBANCE = 197,868 SF. (4.542 Ac.)

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TITLE: **DEMOLITION PLAN**

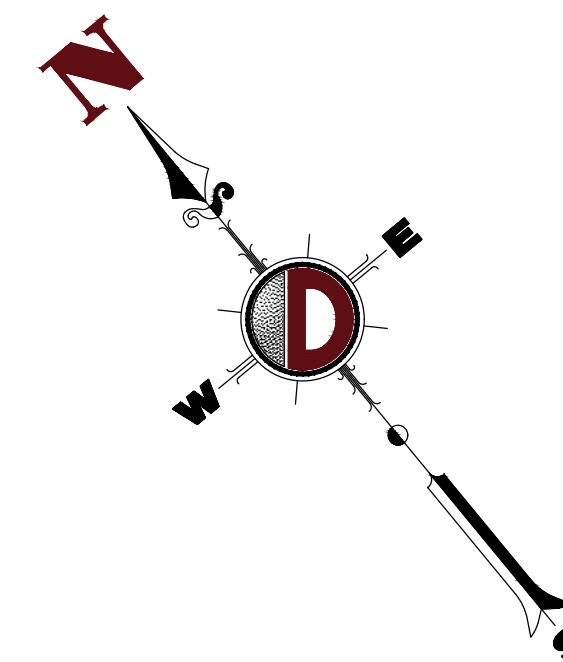
PROJECT: **261 ETRA RD, LLC PROPOSED WAREHOUSE**
BLOCK 22.02, LOT 10
261 ETRA ROAD (CR 571)
TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY

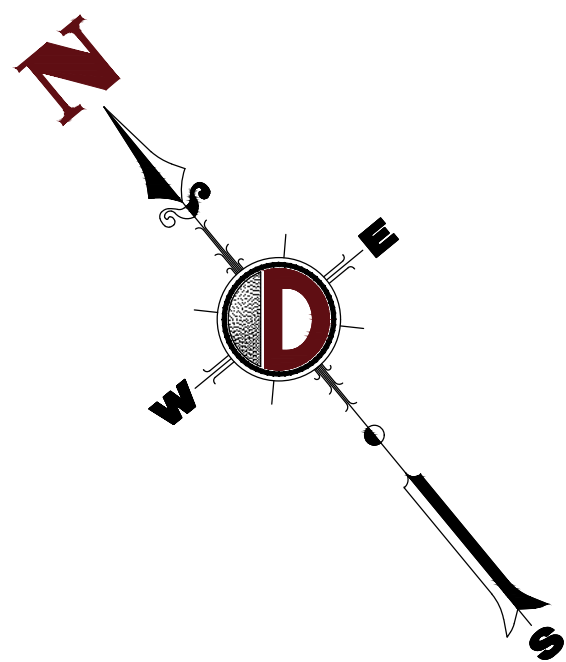
JOB No: 2871-99-003
DATE: 10/14/2021
DRAWN BY: GMC
DESIGNED BY: TAZ
CHECKED BY: TJM
PROF. ENGINEER: JOHN A. PALUS
NEW JERSEY LICENSE No. 41975

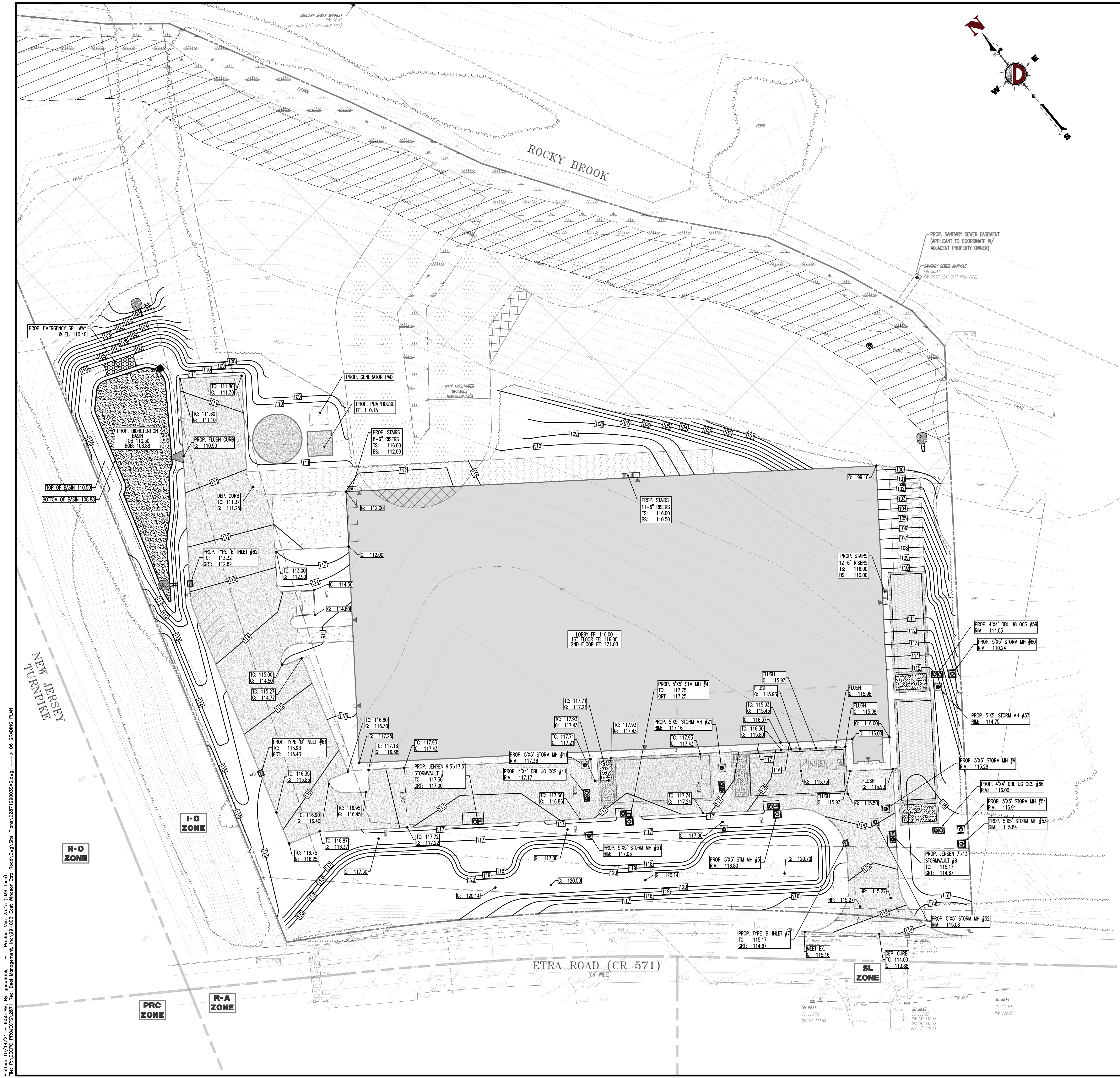
THOMAS J. MULLER
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 52179

PROTECT YOURSELF
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEW JERSEY CONSTRUCTION ACT AND THE NEW JERSEY PROFESSIONAL ENGINEERING ACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

Rev. 1 Q



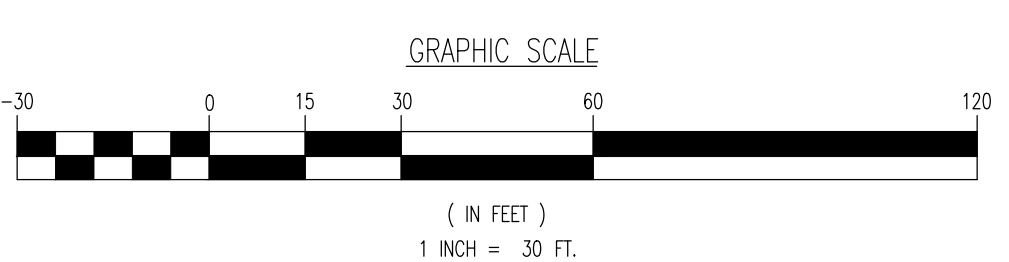




- ### GRADING NOTES
1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SIFT, YIELDING OR UNSATURABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS RECOMMENDED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MOISTURE PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTOR PROOF PROCEEDED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE, WHEN THE WORK IS PERFORMED, KEEPING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPEC AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
 2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.5% MIN. SLOPE AGAINST ALL ISLAND OUTLETS, CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1-1.75% MIN. ON ASPHALT, TO PRESENT FINISHING. ANY DISCREPANCIES THAT MAY EFFECT THE PUBLIC SAFETY OR PROTECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
 3. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.5% OTHER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
 4. SUBGRADE MATERIAL FOR SIDEWALKS, CURBS OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MOISTURE PROCTOR METHOD).
 5. REFER TO SITE PLAN FOR ADDITIONAL NOTES.
 6. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERSEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
 7. MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.
 8. CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS AISLES. CONTRACTOR TO ENSURE A MAXIMUM OF 4% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE. WITH THE EXCEPTION OF RAMPS AND CURB RAMPS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
 9. THE OWNER SHALL RETAIN DYNAMIC EARTH, LLC (808-879-7095) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
 10. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.
 11. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED AREAS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
 12. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

GRADING/UTILITY GRAPHIC LEGEND

PROPERTY LINE (PARCEL IN QUESTION)	
OFF-SITE PROPERTY LINES	
---	EXIST. CABLE LINE
---	EXIST. ELECTRIC LINE
---	EXIST. FIBER OPTIC LINE
---	EXIST. GAS LINE
---	EXIST. OVERHEAD WIRES
---	EXIST. TELEPHONE LINE
---	EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
---	EXIST. WATER LINE
---	EXIST. SANITARY SEWER LINE
---	EXIST. STORM DRAIN LINE
---	EXIST. MINOR CONTOUR & ELEVATION
---	EXIST. MAJOR CONTOUR & ELEVATION
---	EXIST. MONITORING WELL
---	APPROX. TEST PIT LOCATION
---	EXIST. SPOT ELEVATIONS
---	EXIST. OUTLET ELEV.
---	EXIST. TOP OF CURB ELEV.
---	EXIST. FINISH FLOOR ELEV.
---	EXIST. GRADE FLOOR ELEV.
---	EXIST. FIRE HYDRANT
---	EXIST. WATER VALVE
---	EXIST. GAS VALVE
---	EXIST. GAS METER
---	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. SHADE BOX LIGHT
---	EXIST. CORNER LIGHT POLE
---	EXIST. TRAFFIC SIGNAL POLE
---	EXIST. MANHOLE
---	EXIST. "A" INLET
---	EXIST. "B" INLET
---	EXIST. "C" INLET
---	EXIST. "D" INLET
---	EXIST. "E" INLET
---	EXIST. "F" INLET
---	EXIST. FLARED END SECTION
---	EXIST. HEADWALL
---	PROPP. CABLE LINE
---	PROPP. ELECTRIC LINE
---	PROPP. FIBER OPTIC LINE
---	PROPP. GAS LINE
---	PROPP. OVERHEAD WIRES
---	PROPP. TELEPHONE LINE
---	PROPP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
---	PROPP. WATER LINE
---	PROPP. SANITARY SEWER LINE
---	PROPP. STORM DRAIN LINE
---	PROPP. FINISH GRADE CONTOUR & ELEVATION
---	PROPP. GRADE SPOT ELEV.
---	PROPP. TOP OF CURB & FINISHED GRADE ELEV.
---	PROPP. FINISHED FLOOR ELEV.
---	PROPP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
---	PROPP. TOP OF EXTENDED CURB @ LOW SIDE OF HIGH SIDE OF EXTENDED CURB @ FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
---	PROPP. DIRECTION OF DRAINAGE FLOW ARROW
---	PROPP. WATER VALVE
---	PROPP. GAS VALVE
---	PROPP. STORM CLEANOUT
---	PROPP. SANITARY CLEANOUT
---	PROPP. AREA LIGHT
---	PROPP. OUTLET CONTROL STRUCTURE
---	PROPP. DRAINAGE MANHOLE
---	PROPP. SANITARY SEWER MANHOLE
---	PROPP. "A" INLET
---	PROPP. "B" INLET
---	PROPP. "C" INLET
---	PROPP. "D" INLET
---	PROPP. FLARED END SECTION
---	PROPP. HEADWALL



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www.dynamic-nj.com

TITLE: **GRADING PLAN**

PROJECT: **261 ETRA RD. LLC
PROPOSED WAREHOUSE**

BLOCK 22.02, LOT 10
261 ETRA ROAD (CR 571)
TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY

JOB No: 2871-99-003
DATE: 10/14/2021

DRAWN BY: GMC
DESIGNED BY: TAZ
CHECKED BY: TJM

THOMAS J. MULLER
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 52179

JOHN A. PALUS
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 41975

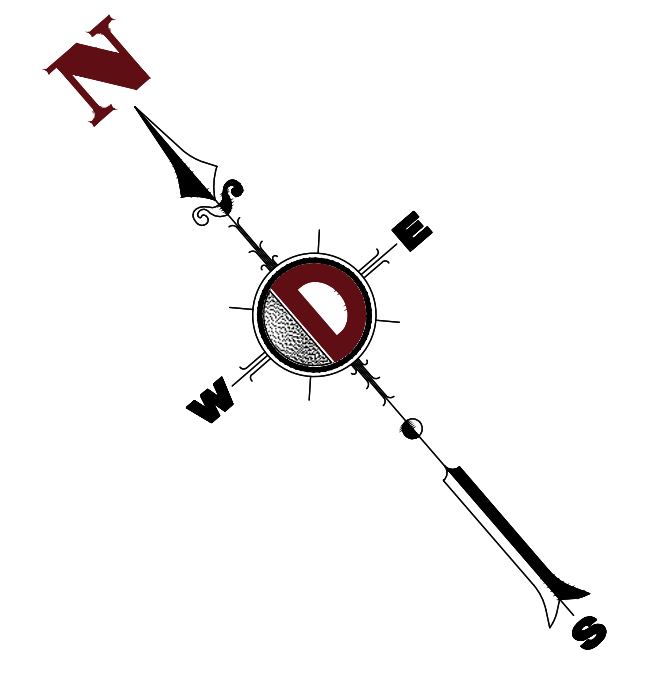
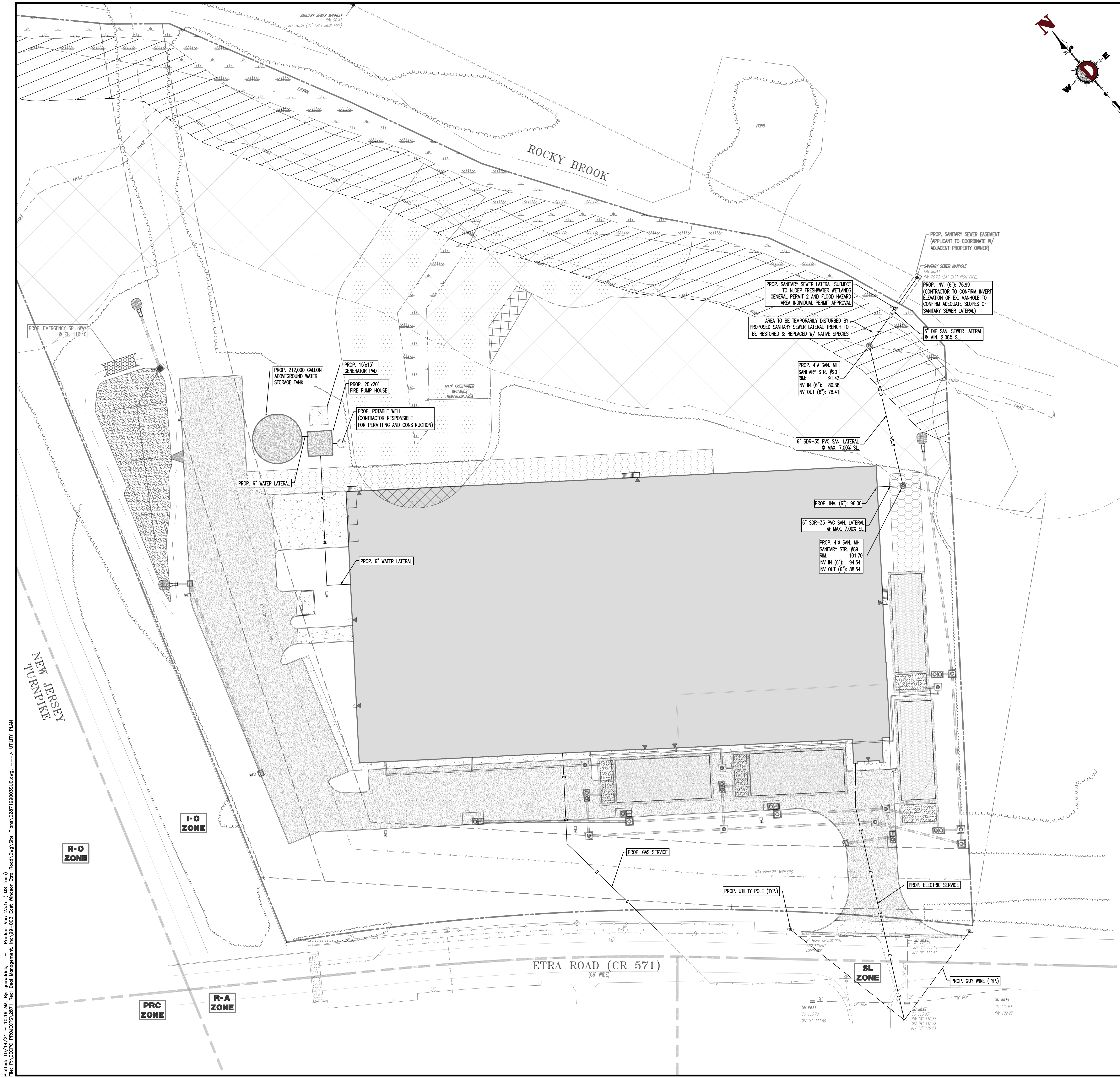
PROTECT YOURSELF
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEW JERSEY ENGINEERING AND SURVEYING ACT AND THE NEW JERSEY PROFESSIONAL ENGINEERING AND SURVEYING ACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

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SHEET No: **6**
OF 19

Rev. 1: Q

Printed: 10/14/21 - 9:55 AM By: gowick, Product Ver: 23.1 (LMS Tech)
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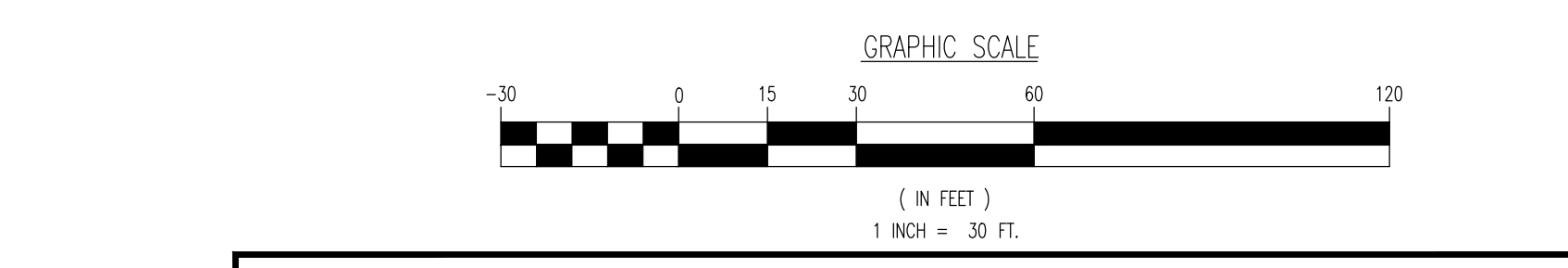


- ### UTILITY NOTES
- LOCATION OF ALL EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADE. INTERFERENCE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - 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.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONTACTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
 - WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTORS PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPOINTMENTS REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
 - ALL WATER MAIN SHALL BE CEMENT-LINED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.
 - THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1" INCH.
 - SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE 300-36 PVC PIPE UNLESS OTHERWISE DESIGNATED.
 - ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-LINED, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED EQUAL.
 - WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF THE EXISTING SEWER MAIN, STRUCTURES AND APPURTENANCES DURING CONNECTION.
 - 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.
 - 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.
 - ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.
 - ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
 - MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-778, CLASS II, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELECTRICAL STORM PIPE TO CONFORM TO ASTM C-857, CLASS III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMPIPES TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MORTAR OR PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH ASTM C-200 TO BE UTILIZED TO BE UTILIZED TO BE UTILIZED. REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATER-TIGHT AND CONFORM TO ASTM C-443.
 - HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2326. SDR35 PIPE SHALL HAVE CORRUGATED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2326 AND ASTM D3212. PERFORATED PIPE SHALL HAVE CORRUGATED SPLIT-HIGH JOINTS MEETING THE REQUIREMENTS OF ASTM F2326 AND ASTM F477. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
 - HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2326 (1/2"-30" PIPES) AND ASTM F2081 (3/4"-60" PIPES). PIPE SHALL HAVE CORRUGATED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATER TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
 - 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. IF THE EXISTING GAS SERVICE CAN NOT BE UTILIZED, THE NEW SERVICE IS TO BE COORDINATED AND VERIFIED FOR LOCATION WITH THE LOCAL GAS COMPANY. 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.

GRADING/UTILITY GRAPHIC LEGEND

---	PROPERTY LINE (PARCEL IN QUESTION)	---	PROPERTY LINE (PARCEL IN QUESTION)
---	OFF-SITE PROPERTY LINES	---	OFF-SITE PROPERTY LINES
---	EXIST. CABLE LINE	---	EXIST. CABLE LINE
---	EXIST. ELECTRIC LINE	---	EXIST. ELECTRIC LINE
---	EXIST. FIBER OPTIC LINE	---	EXIST. FIBER OPTIC LINE
---	EXIST. GAS LINE	---	EXIST. GAS LINE
---	EXIST. OVERHEAD WIRES	---	EXIST. OVERHEAD WIRES
---	EXIST. TELEPHONE LINE	---	EXIST. TELEPHONE LINE
---	EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)	---	EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)
---	EXIST. WATER LINE	---	EXIST. WATER LINE
---	EXIST. SANITARY SEWER LINE	---	EXIST. SANITARY SEWER LINE
---	EXIST. STORM DRAIN LINE	---	EXIST. STORM DRAIN LINE
---	EXIST. MINOR CONTOUR & ELEVATION	---	EXIST. MINOR CONTOUR & ELEVATION
---	EXIST. MAJOR CONTOUR & ELEVATION	---	EXIST. MAJOR CONTOUR & ELEVATION
---	EXIST. MONITORING WELL	---	EXIST. MONITORING WELL
---	APPROX. TEST PIT LOCATION	---	APPROX. TEST PIT LOCATION
---	EXIST. SPOT ELEVATIONS	---	EXIST. SPOT ELEVATIONS
---	EXIST. OUTLET ELEV.	---	EXIST. OUTLET ELEV.
---	EXIST. TOP OF CURB ELEV.	---	EXIST. TOP OF CURB ELEV.
---	EXIST. FINISH FLOOR ELEV.	---	EXIST. FINISH FLOOR ELEV.
---	EXIST. CHARGE FLOOR ELEV.	---	EXIST. CHARGE FLOOR ELEV.
---	EXIST. FIRE HYDRANT	---	EXIST. FIRE HYDRANT
---	EXIST. WATER VALVE	---	EXIST. WATER VALVE
---	EXIST. GAS VALVE	---	EXIST. GAS VALVE
---	EXIST. GAS METER	---	EXIST. GAS METER
---	EXIST. ELECTRIC METER	---	EXIST. ELECTRIC METER
---	EXIST. ELECTRIC BOX	---	EXIST. ELECTRIC BOX
---	EXIST. CLEAN OUT	---	EXIST. CLEAN OUT
---	EXIST. WELL	---	EXIST. WELL
---	EXIST. WATER SHUT OFF VALVE	---	EXIST. WATER SHUT OFF VALVE
---	EXIST. TELEPHONE BOX	---	EXIST. TELEPHONE BOX
---	EXIST. CABLE TV BOX	---	EXIST. CABLE TV BOX
---	EXIST. UTILITY POLE	---	EXIST. UTILITY POLE
---	EXIST. GUY WIRE	---	EXIST. GUY WIRE
---	EXIST. LIGHT POLE	---	EXIST. LIGHT POLE
---	EXIST. BUILDING LIGHT	---	EXIST. BUILDING LIGHT
---	EXIST. SHADE BOX LIGHT	---	EXIST. SHADE BOX LIGHT
---	EXIST. CORRAL LIGHT POLE	---	EXIST. CORRAL LIGHT POLE
---	EXIST. TRAFFIC SIGNAL POLE	---	EXIST. TRAFFIC SIGNAL POLE
---	EXIST. MANHOLE	---	EXIST. MANHOLE
---	EXIST. "A" INLET	---	EXIST. "A" INLET
---	EXIST. "B" INLET	---	EXIST. "B" INLET
---	EXIST. "C" INLET	---	EXIST. "C" INLET
---	EXIST. YARD INLET	---	EXIST. YARD INLET
---	EXIST. FLARED END SECTION	---	EXIST. FLARED END SECTION
---	EXIST. HEADWALL	---	EXIST. HEADWALL
---	PROPP. GRADE SPOT ELEV.	---	PROPP. GRADE SPOT ELEV.
---	PROPP. TOP OF CURB & FINISHED GRADE ELEV.	---	PROPP. TOP OF CURB & FINISHED GRADE ELEV.
---	PROPP. FINISHED FLOOR ELEV.	---	PROPP. FINISHED FLOOR ELEV.
---	PROPP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)	---	PROPP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (ACTUAL BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
---	PROPP. TOP OF EXTENDED CURB, (H) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB, (L) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB	---	PROPP. TOP OF EXTENDED CURB, (H) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB, (L) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
---	PROPP. DIRECTION OF DRAINAGE FLOW ARROW	---	PROPP. DIRECTION OF DRAINAGE FLOW ARROW
---	PROPP. WATER VALVE	---	PROPP. WATER VALVE
---	PROPP. GAS VALVE	---	PROPP. GAS VALVE
---	PROPP. STORM CLEANOUT	---	PROPP. STORM CLEANOUT
---	PROPP. SANITARY CLEANOUT	---	PROPP. SANITARY CLEANOUT
---	PROPP. AREA LIGHT	---	PROPP. AREA LIGHT
---	PROPP. OUTLET CONTROL STRUCTURE	---	PROPP. OUTLET CONTROL STRUCTURE
---	PROPP. DRAINAGE MANHOLE	---	PROPP. DRAINAGE MANHOLE
---	PROPP. SANITARY SEWER MANHOLE	---	PROPP. SANITARY SEWER MANHOLE
---	PROPP. "A" INLET	---	PROPP. "A" INLET
---	PROPP. "B" INLET	---	PROPP. "B" INLET
---	PROPP. "C" INLET	---	PROPP. "C" INLET
---	PROPP. YARD INLET	---	PROPP. YARD INLET
---	PROPP. FLARED END SECTION	---	PROPP. FLARED END SECTION
---	PROPP. HEADWALL	---	PROPP. HEADWALL



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TITLE: **UTILITY PLAN**

PROJECT: **261 ETRA RD. LLC
PROPOSED WAREHOUSE**
BLOCK 22.02, LOT 10
261 ETRA ROAD (CR 571)
TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY

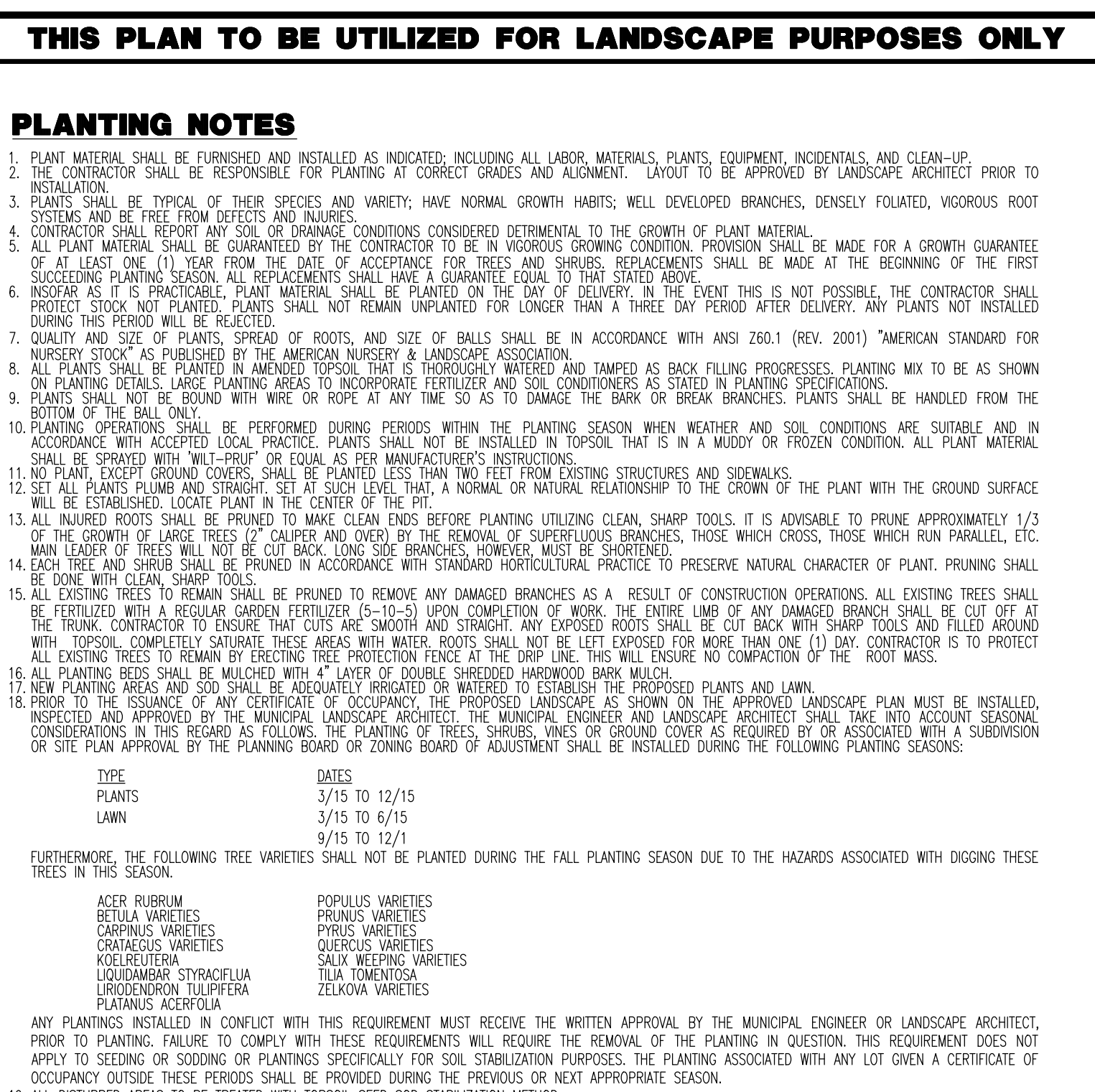
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DATE: 10/14/2021
DRAWN BY: GMC
SCALE: (H) 1"=30'
(V)
DESIGNED BY: TAZ
SHEET No: **8**
CHECKED BY: T.J.M.
OF 19
PROF. ENGINEER
NEW JERSEY LICENSE No. 41975

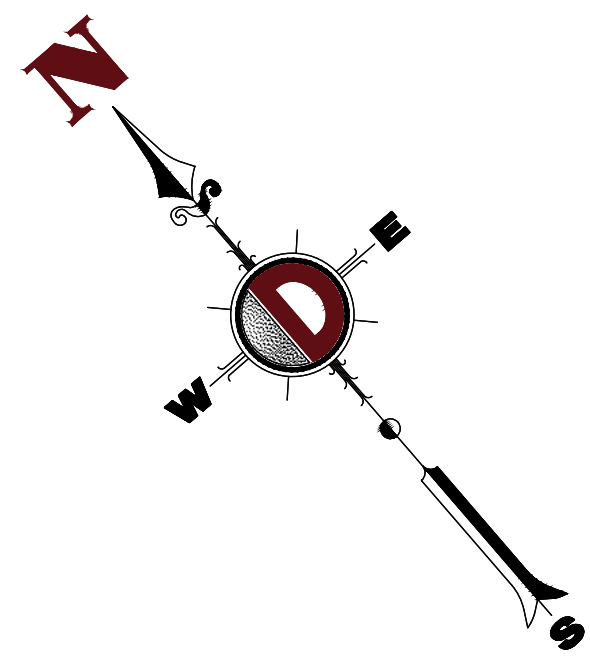
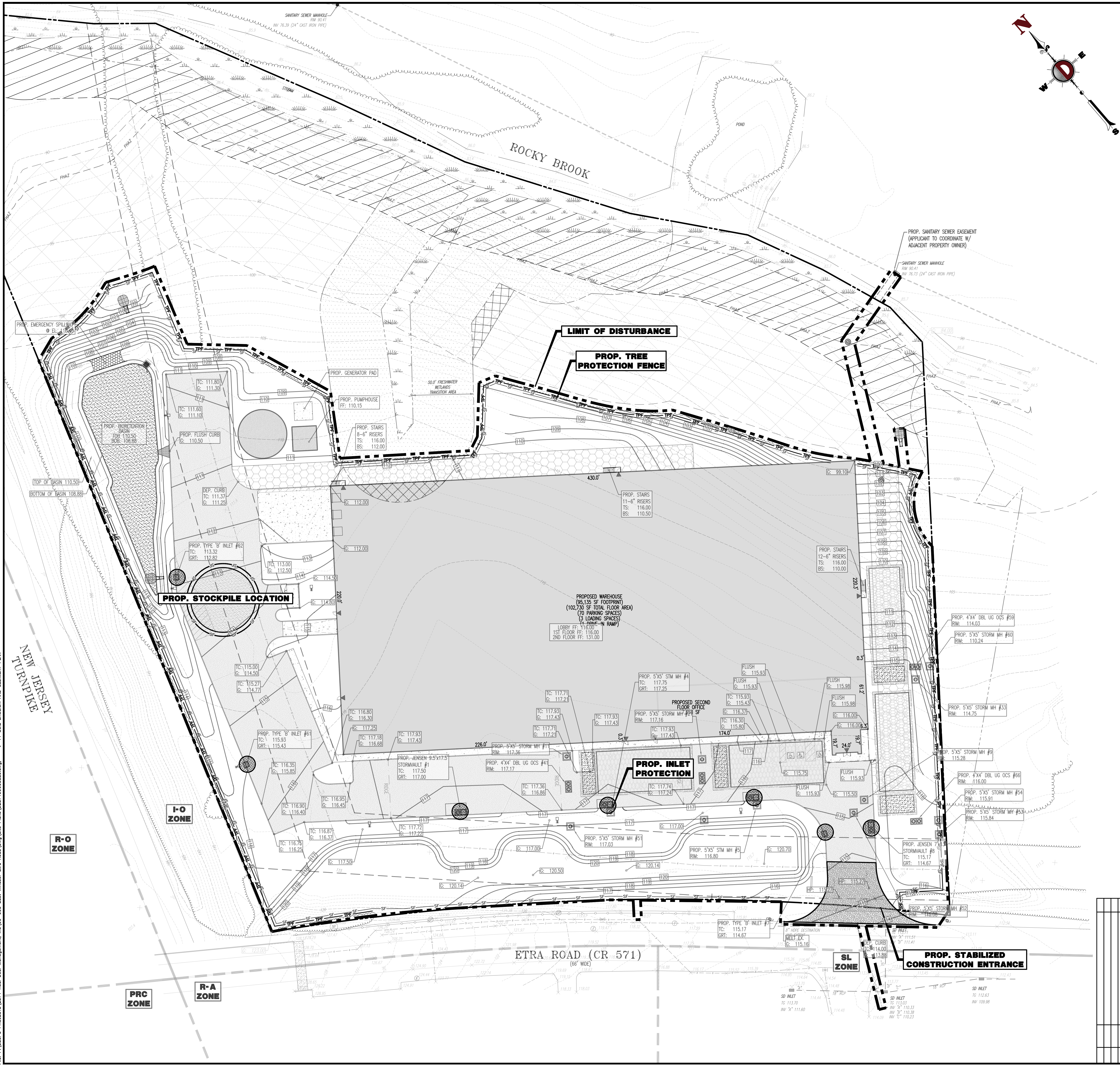
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PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 52179

JOHN A. PALUS
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NEW JERSEY LICENSE No. 41975

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ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEW JERSEY ENGINEERING ACT AND THE NEW JERSEY PROFESSIONAL ENGINEER ACT. NO WORK SHALL BE DONE WITHOUT THE NECESSARY PERMITS. NO WORK SHALL BE DONE WITHOUT THE NECESSARY PERMITS. NO WORK SHALL BE DONE WITHOUT THE NECESSARY PERMITS.

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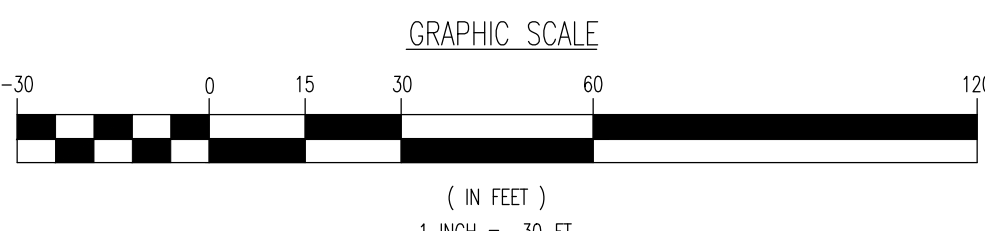




EROSION CONTROL LEGEND

- PROP. LIMIT OF DISTURBANCE LINE
- PROP. SILT FENCE LINE
- PROP. TREE PROTECTION FENCE LINE
- PROP. INLET FILTER
- PROP. HAYBALE SEDIMENT BARRIER

LIMIT OF DISTURBANCE = 270,301 SF. (6.205 Ac.)



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LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING & ZONING

TITLE:
SOIL EROSION AND SEDIMENT PLAN

PROJECT:
261 ETRA RD, LLC
PROPOSED WAREHOUSE
BLOCK 22.02, LOT 10
261 ETRA ROAD (CR 571)
TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY

JOB No: 2871-99-003
DATE: 10/14/2021
DESIGNED BY: GMC
CHECKED BY: TAJ
PROF. ENGINEER: JOHN A. PALUS
NEW JERSEY LICENSE NO. 41975

PROTECT YOURSELF
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) REGULATIONS. THE USER OF THIS PLAN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROTECTION OF THE PUBLIC.

11
OF 19

BERGEN COUNTY SOIL CONSERVATION DISTRICT
28 HUGHES DRIVE
HAMILTON SQUARE, N.J. 08690

- HASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAY BALES AND SILE FENCING.
- HASE 2: CLEAR AND RAUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES INCLUDING EXCAVATION.
- HASE 3: EXCAVATION, CONSTRUCTION, AND STABILIZATION OF DETENTION BASIN(S), EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES.
- HASE 4: EXCAVATE FOR BUILDING FOUNDATION.
- HASE 5: COMPLETE BUILDING CONSTRUCTION.
- HASE 6: EXCAVATE AND INSTALL ON SITE IMPROVEMENTS INCLUDING CURBAGE, UNDERGROUND PIPING, AND DRAINAGE STRUCTURES.
- HASE 7: FINAL GRADING ON SITE.
- HASE 8: INSTALL FENCE, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING.

SEEDS AND MATERIALS

1. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED SOD.
2. SOD SHOULD BE FREE OF WEEDS AND UNSUBSIDIARY COARSE GRASS PLANTS.
3. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH.)
4. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN EDGES WILL NOT BE ACCEPTABLE.
5. FOR DRAUGHT STATES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD.
6. ONLY MOST, FRESH, UNHARVESTED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

B. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES, SUCH AS INTERCEPTOR DITCHES, DIKES AND TERRACES, EROSION STOPS, AND DE-SILTING BASINS. SEE STANDARDS 4.2 THROUGH 4.16.

APPLY LIMEFEST AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY Rutgers University Soil Testing Laboratory. SOIL SAMPLE ANALYSIS FOR PHOSPHORUS AND POTASSIUM CONCENTRATIONS WILL BE REQUIRED. CRITICAL FERTILIZER MAY BE APPLIED AT THE RATE OF 50 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT W/ SOIL WATER ANALYSIS NITROGEN AND ORGANIC SULFUR AT THE SURFACE. 4" IN ADDITION, 3000 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR 10-10-10 OR EQUIVALENT. APPLY LIMEFEST AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LB/1000 SQ. FT.
CLAY, CLAY LOAM AND HEAVILY ORGANIC SOILS	2	45
SANDY LOAM, LOAM, SILT LOAM	2	40
LOAM, SAND, SAND	2	35

PULVERIZED LIMEFEST IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-PENNYLAN LINE.

WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISK, SPRING TINE CULTIVATOR, OR OTHER SUBTLE SOIL TREATMENT EQUIPMENT. FERTILIZER SHOULD BE THE GENERAL CONCENTRATIONS, CONTRIBUTE THALLUS TO A REASONABLY UNIFORM, FIRM SEEDBED IS PREPARED.

REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOIL TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS CLUMPS, CABLES, LIMBS, BRANCHES, LIMBS, TWIGS, AND OTHER DEBRIS.

INSPECT SITE JUST BEFORE BEDDING, IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED AS BEFORE.

[illegible]

TOP-DRESS WITH 10-0-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

A. PERMANENT VEGETATIVE MIXTURES & PLANTING RATES		
(1)	HARD FESCUE -	175 LBS/ACRE 4 LBS/1000 SQ.FT.
(2)	CHEWING FESCUE -	175 LBS/ACRE 4 LBS/1000 SQ.FT.
(3)	STRONG CREEPING RED FESCUE -	175 LBS/ACRE 4 LBS/1000 SQ.FT.
(4)	PERENNIAL BLUEGRASS -	45 LBS/ACRE 1 LBS/1000 SQ.FT.
(5)	KY. BLUEGRASS -	45 LBS/ACRE 1 LBS/1000 SQ.FT.

C. AFTER SEEDING, FIRM THE SOIL WITH A CORRUGATED ROLLER TO ENSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SEED EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON THE SOIL WILL BE MAINTAINED.

D. ALTERNATELY, 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, MUCH SALT SHOULD NOT BE INCLUDED IN THE TANK WITH SHORTER-BEDDED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

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

A. STRAW OR HAY: UNROOTED SMALL GRASS 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 CRAMPER 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.

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.

1. PEG AND TWINE
2. MULCH NETTINGS
3. CRIMPER MULCH ANCHORING COULTER TOOL
4. LIQUID MULCH-BINDERS

USED AT THE RATE OF 1,200 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.

ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE 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 PELLETED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

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 SAFETY.

INLACE – TO ROUGHEN SURFACE AND BRING CLOSURE TO THE SURFACE. THIS IS A TEMPORARY EMERGENCE MEASURE WHICH SHOULD BE USED BEFORE SOIL BEGINS FORMING ON UNPAVED SIDE OF EMBANKMENT. CHIEF- TYPE PLACING SPACE ABOUT 12 INCHES APART, AND SPRING – TOWARD HARBOR ARE EXAMPLES WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING – IS TO SPRINKLE UNTIL THE SURFACE IS WET.

SPREADING – SOLID BORDERS, SNOOK FENCES, BURAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS.

CALCIUM CHLORIDE – SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THE SURFACE MUST NOT BE OVERLY POLLUTED OR PLANT DAMAGE, IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT STREAMS OR ACCUMULATION AROUND PLANTS.

STONE – COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

1. MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES

[illegible]

NOT TO SCALE

Diagram illustrating the construction of a trench for a filter fabric and fence posts. The diagram shows a cross-section of the trench with labels for various components and dimensions:

- WOOD OR METAL FENCE POSTS SPACED 8'-0" O.C.
- FABRIC SECURED TO POSTS WITH METAL FASTENERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC.
- DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE.
- AREA OF REINFORCEMENT
- FLOW SIDE
- SILT
- 2'-0" MIN.
- DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE.
- EXISTING UNDISTURBED GROUND
- DIG 6" WIDE AND 6" DEEP TRENCH, BURY BOTTOM 1'-0" OF FILTER FABRIC TAMP IN PLACE
- 6"
- 6"
- 2'-0"

NOT TO SCALE

NOT TO SCALE

[illegible]

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 GRAIN 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 CRIMBER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT) THE RATE OF APPLICATION IS 3

TURNS 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, GRADE AREA IS APPROXIMATELY 1,000 SQUARE FEET SECTION AND DISTRIBUTE 70 TO 80 POUNDS DRYWELL 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. FLO AND TUNE
2. MULCH NETTINGS
3. GRASS MULCH, MULCHING, SOULTON, TON

4. LIQUID MULCH-BINDERS

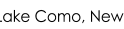
B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1 500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH

SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

C. PELLETIZED MULCH, COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN

SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS. SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.

APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION



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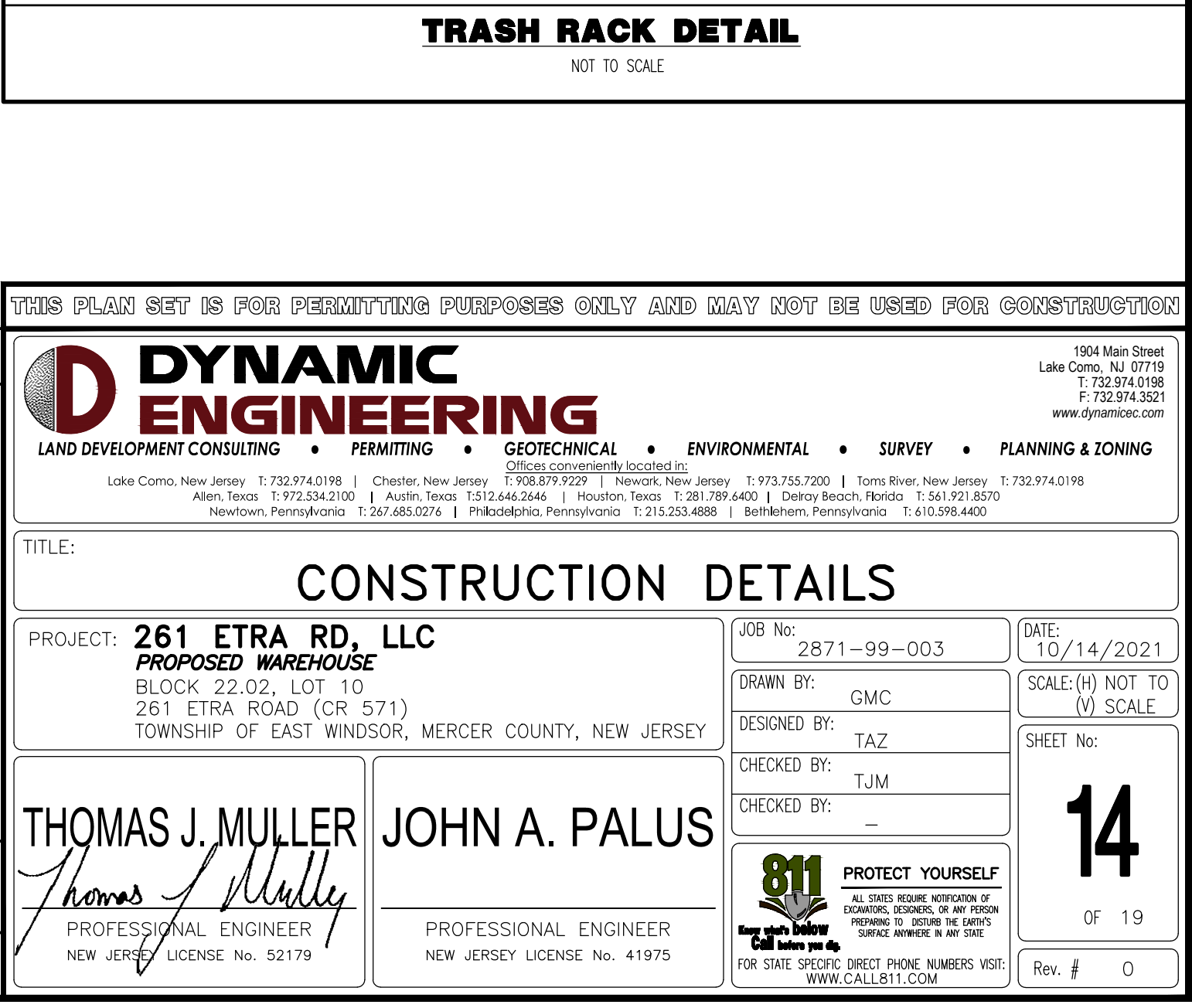
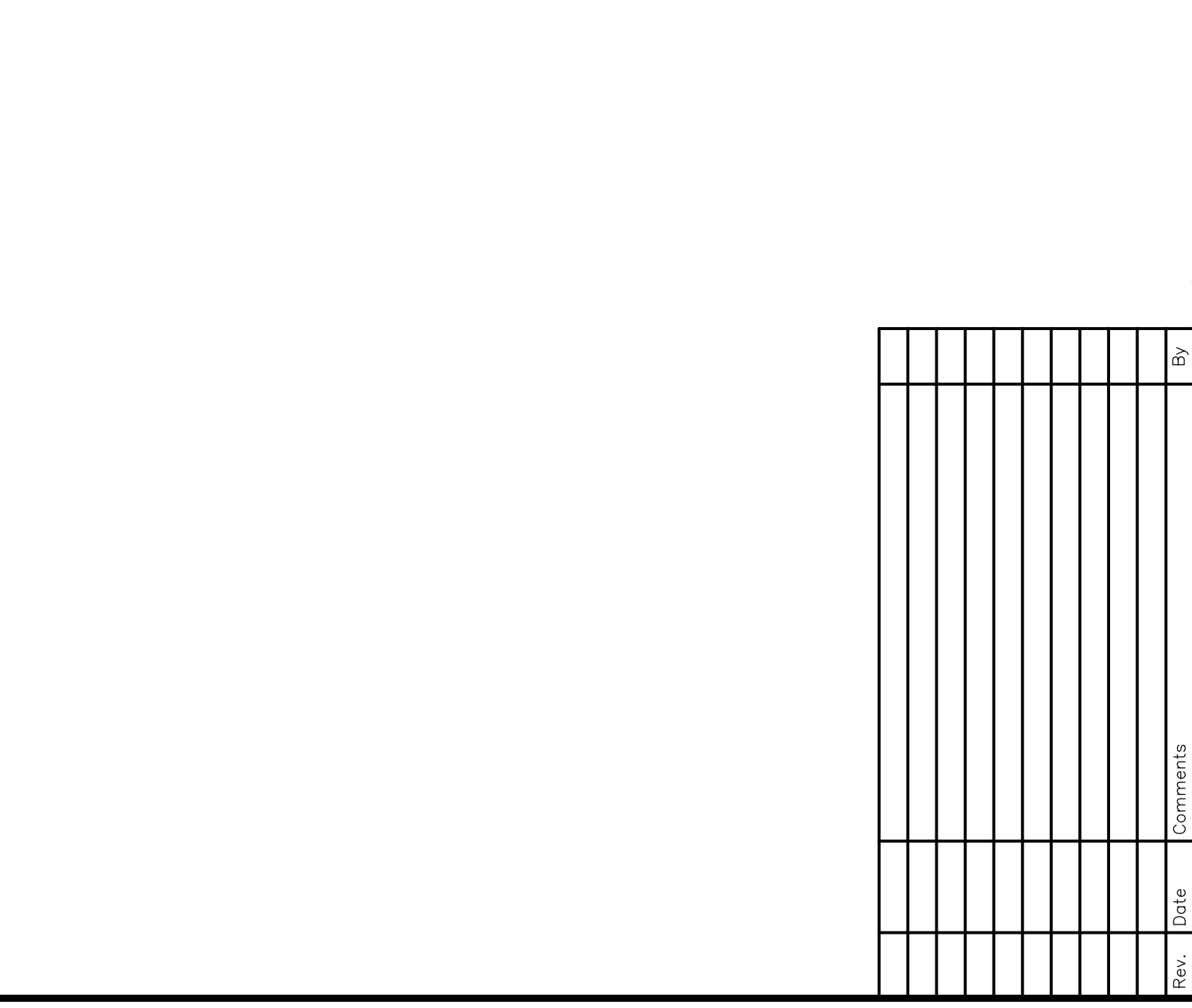
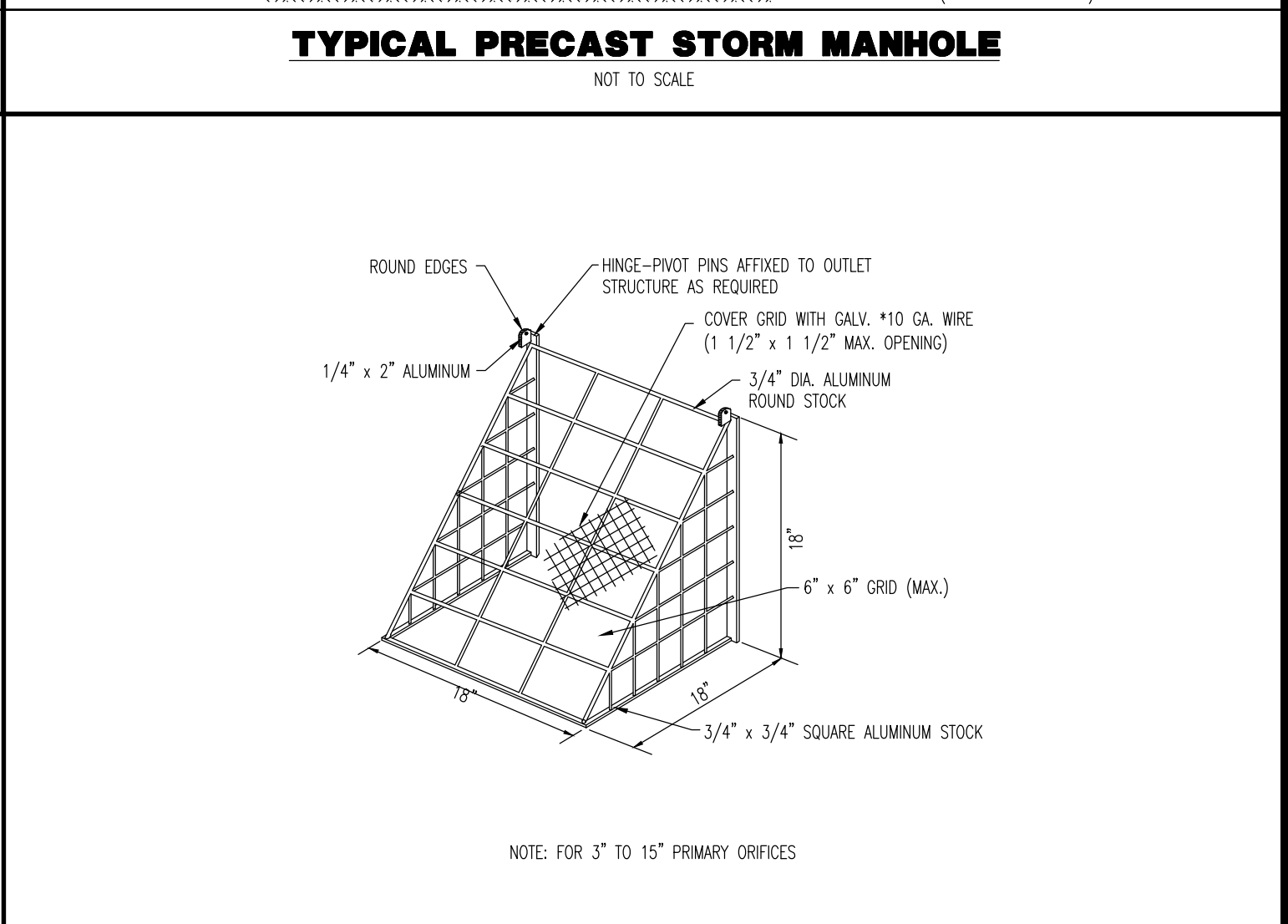
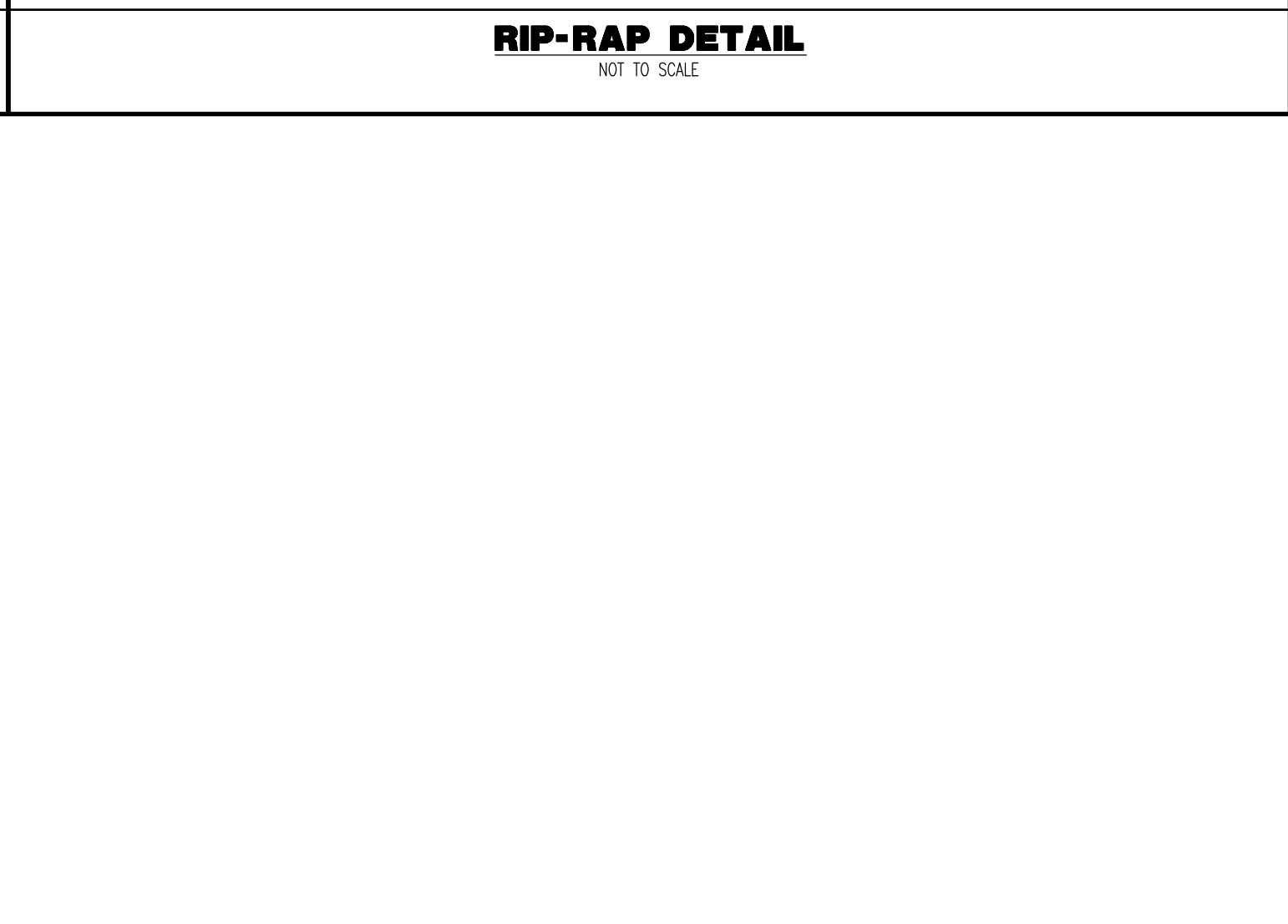
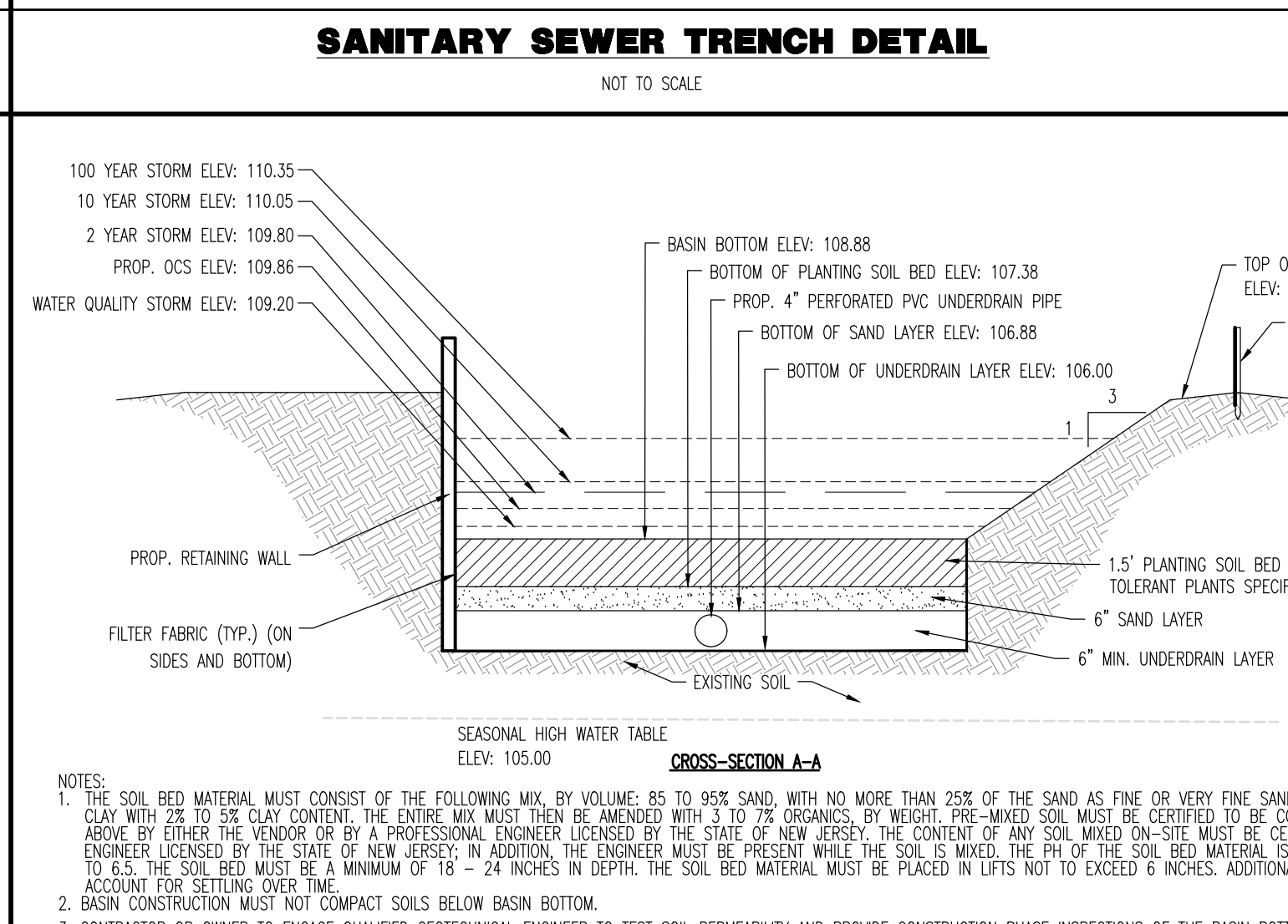
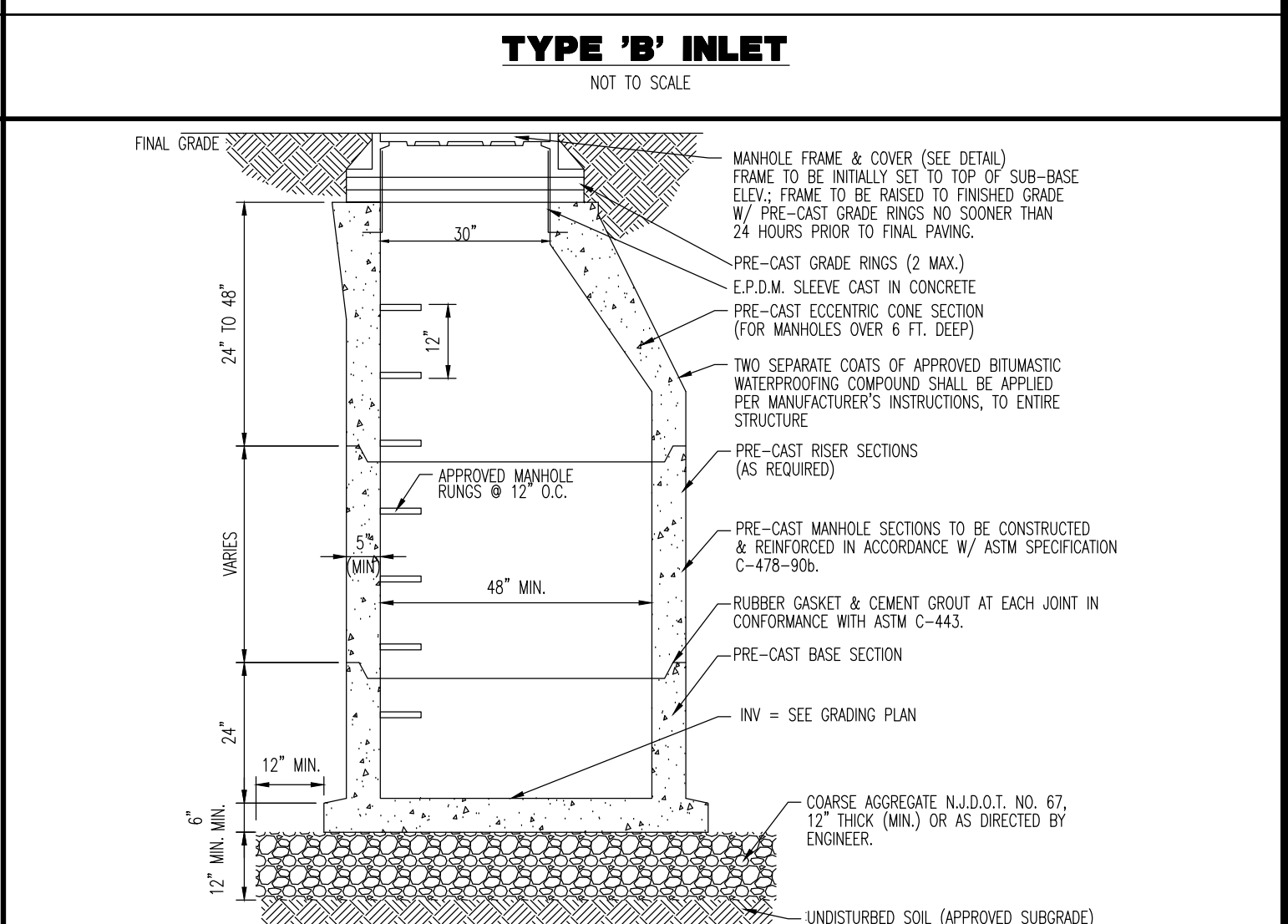
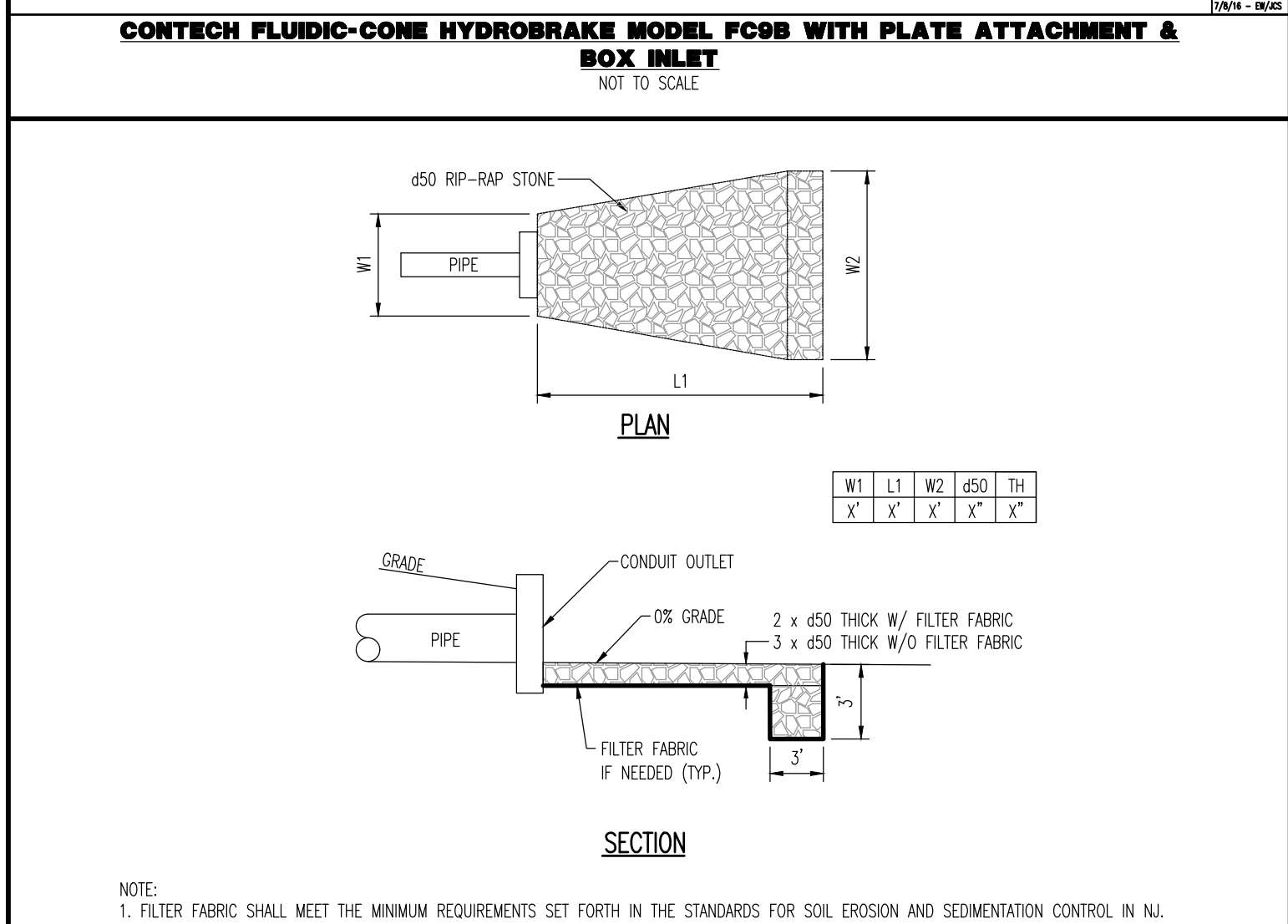
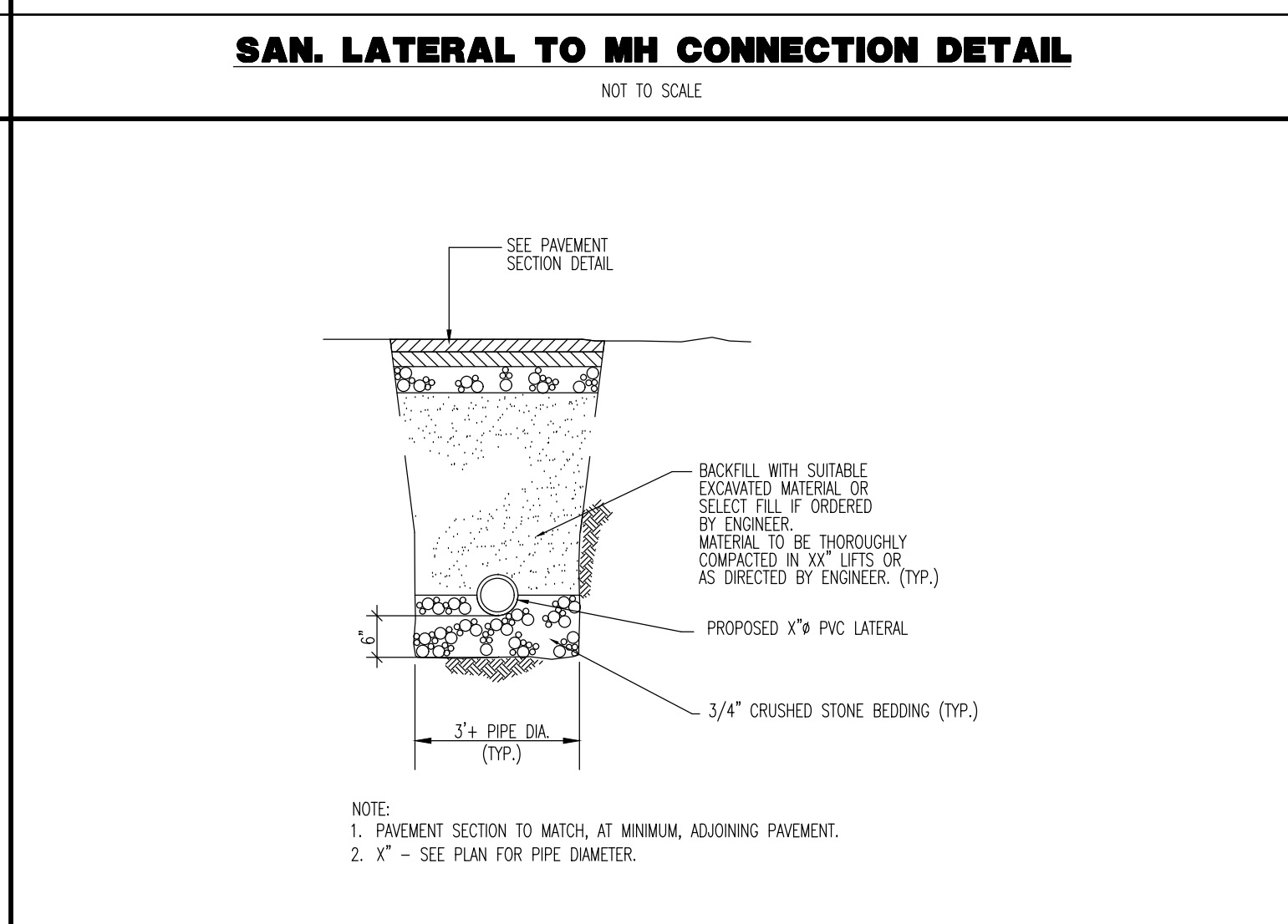
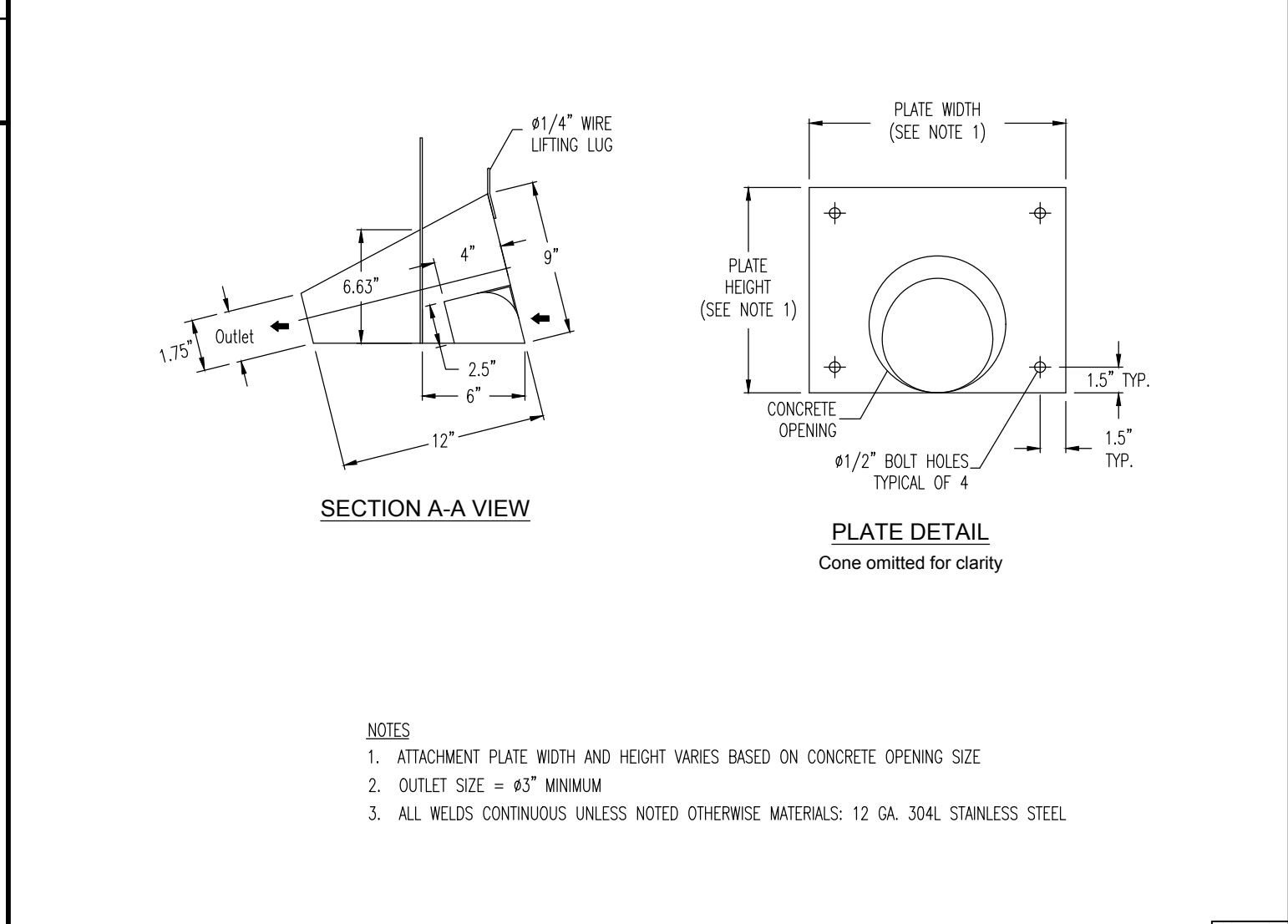
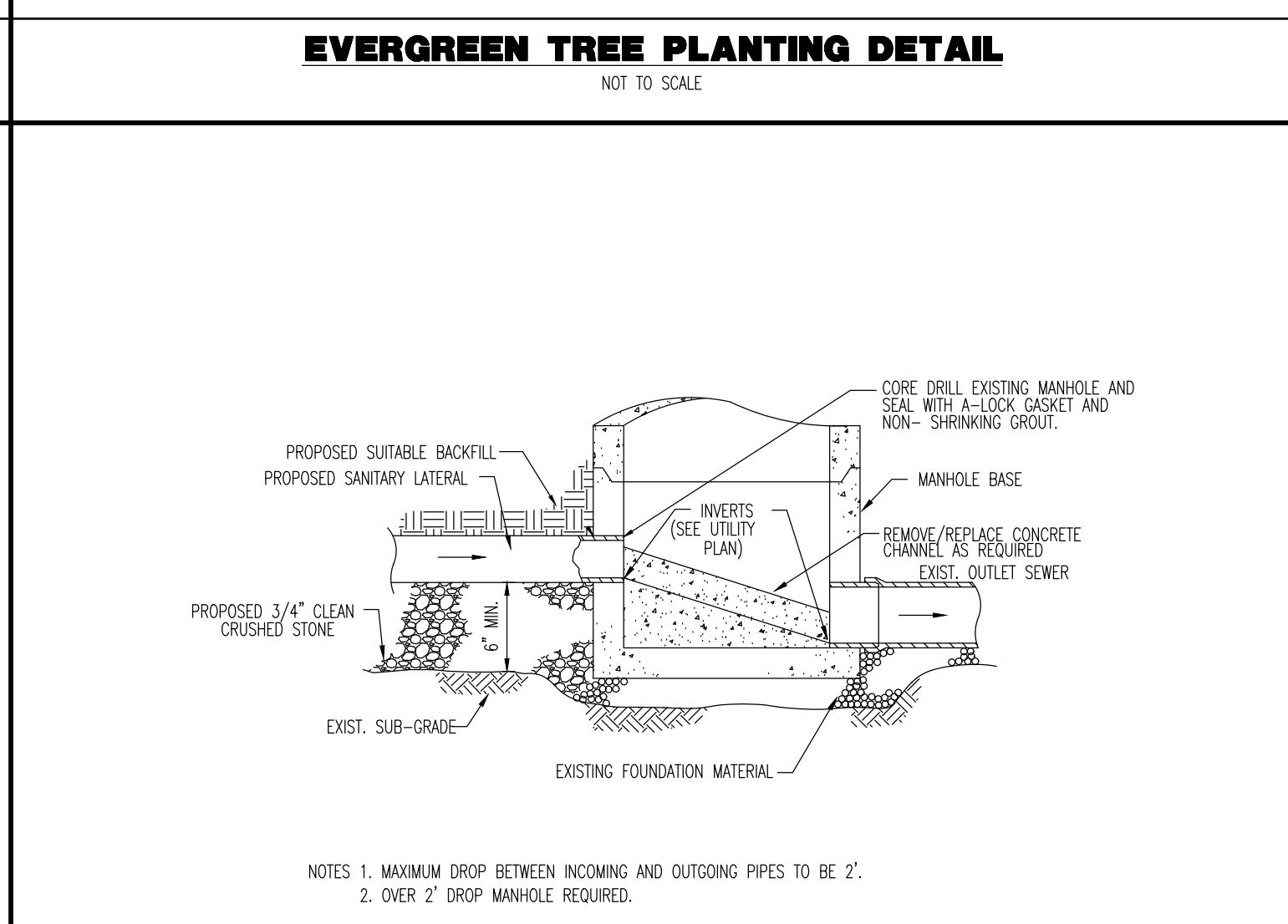
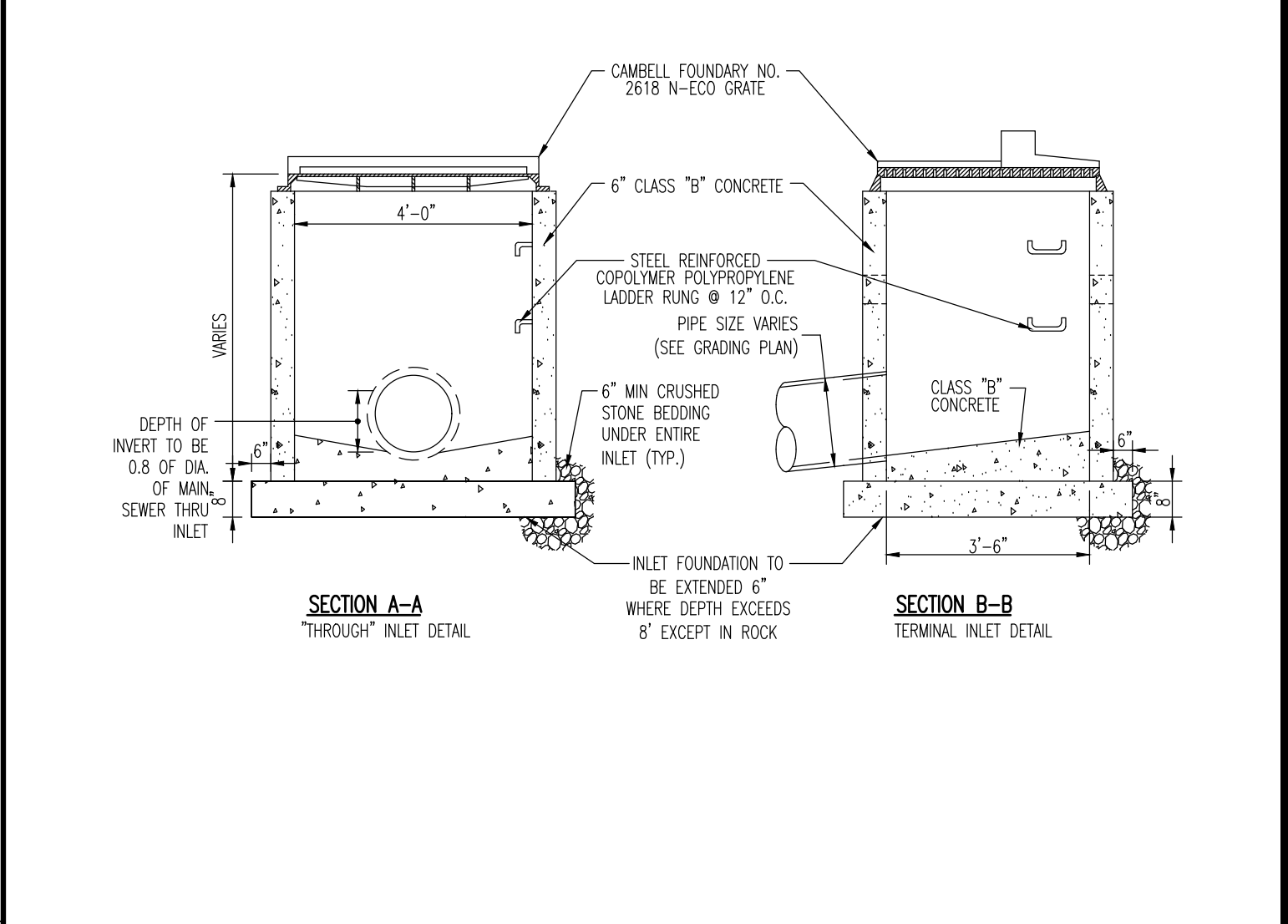
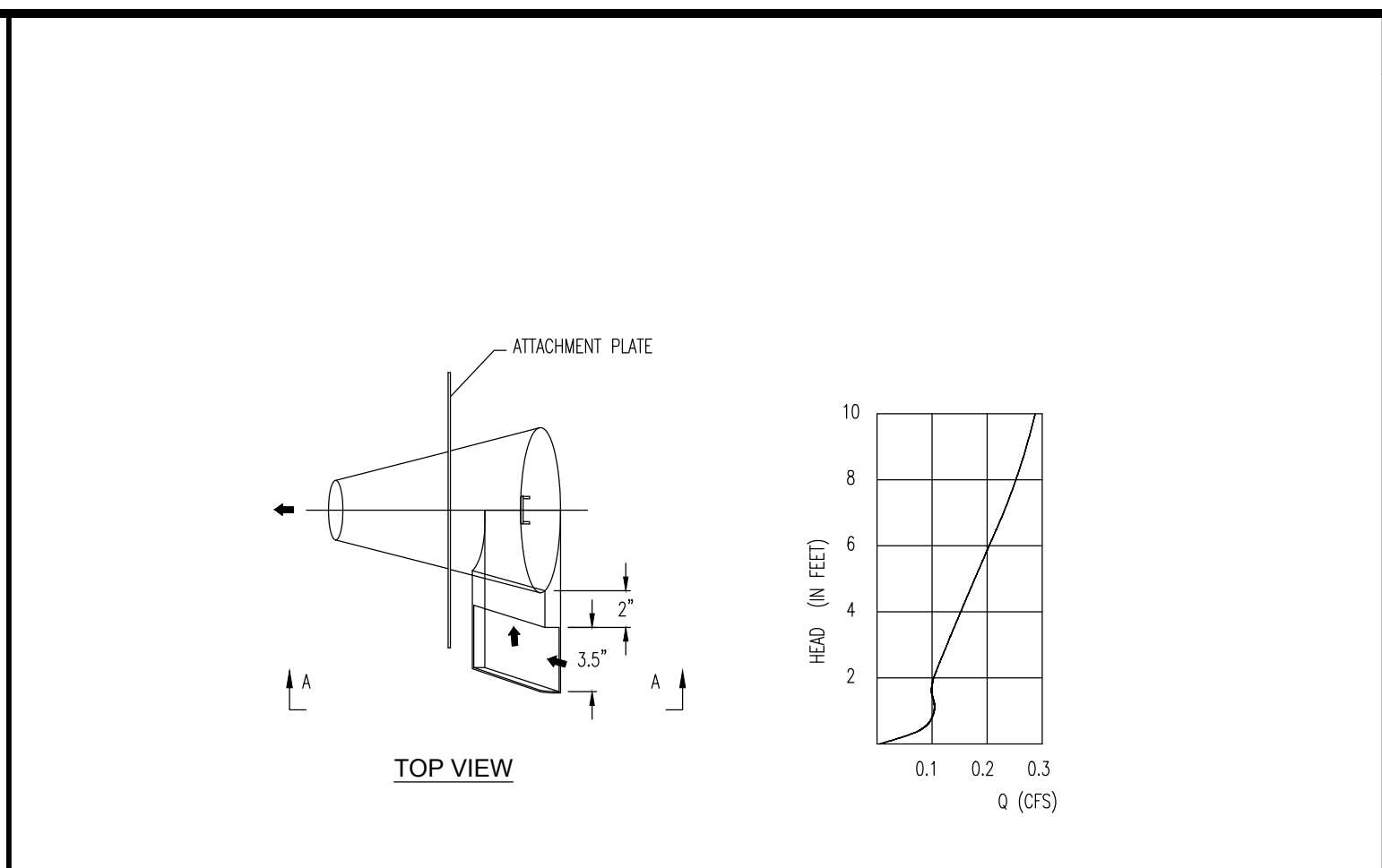
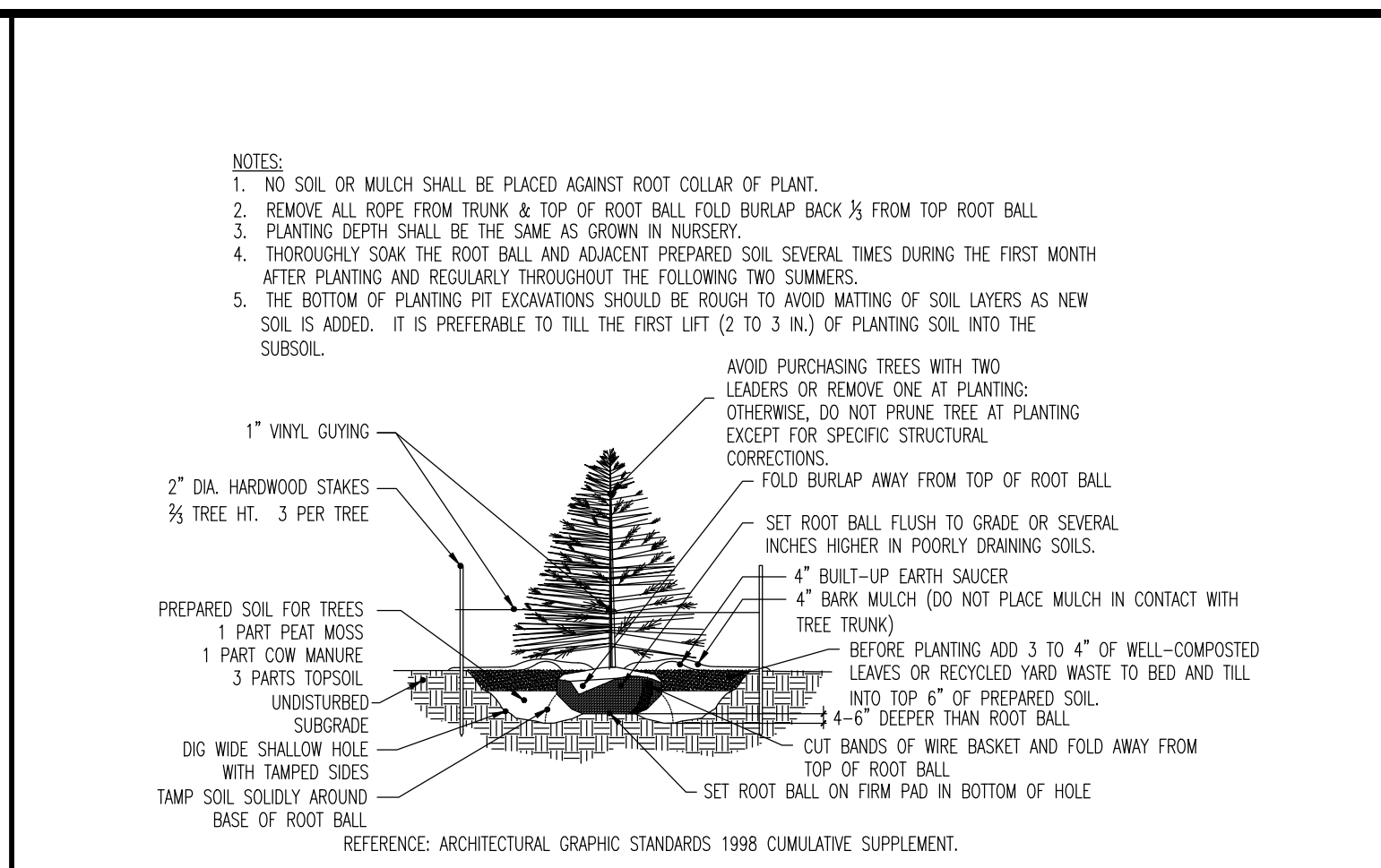
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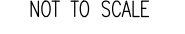
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TITLE:	CONSTRUCTION DETAILS		DATE: 10/14/2021
	PROJECT: 261 ETRA RD, LLC PROPOSED WAREHOUSE BLOCK 22.02, LOT 10 261 ETRA ROAD (CR 571) TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY	JOB No: 2871--99--003 DRAWN BY: GMC DESIGNED BY: TAZ CHECKED BY: TJM CHECKED BY: _____	
THOMAS J. MULLER <i>Thomas J. Muller</i> PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 52179	JOHN A. PALUS <i>John A. Palus</i> PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 41975	 PROTECT YOURSELF ALL CITY, TOWNSHIP, UTILITY AND PRIVATE OWNERS OF UNDERGROUND UTILITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION OR DISTURBANCE OF THE GROUND. FOR STATE SPECIFIC DIAL-ONE NUMBERS VISIT: WWW.CALL811.NJ.GOV	
Rev. _____	_____	_____	



STORMVAULT BIOFILTRATION (SVBF) MODEL: SVBF-UV 6x8.5

NO SOL MEDIA UNITIZED TREATMENT FLUX RATE / HYDRAULIC SURFACE AREA LOADING RATE (HSA)	150-180 GPH (2-6 GPM/FT ²)
TREATMENT CHAMBER SURFACE AREA	53.4 FT ²
MODEL SVBF-UV 6x8.5, PEAK TREATMENT FLOW RATE	0.227 CFS
	103 GPM

- **JENSEN BIORETENTION & INFILTRATION TREE/PLANTER STORMVAULT BIOFILTRATION SIZES TO TREAT THE ENTIRE SQFT AT A RATE OF 150-180 GPH WHEN USING JENSEN'S ENGINEERED SIERRA BLENDED BIO SOIL.**
- 1. JENSEN'S STORMVAULT BIOFILTRATION (SVBF) DESIGNED AND SIZED TO TREAT THE ENTIRE SQFT.**
- 2. CAPTURED WATER QUALITY CONTRIBUTENTS:**
- TOTAL SUSPENDED SOLIDS (TSS)
 - PHOSPHORUS
 - TOTAL AND DISSOLVED COPPER
 - TOTAL AND DISSOLVED ZINC
 - OIL & GREASE
 - FECAL COLIFORM
- CONSTRUCTION & INSTALLATION NOTES:**
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
 - THE CONNECTION BETWEEN THE INTERNAL DRAIN PIPING OF THE SVBF SHALL BE MADE USING CONNECTORS CONFORMING TO ASTM C923, AS MADE BY KORN-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATER-TIGHT.
 - CONTRACTOR MAY ALSO PROVIDE ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
 - CONTRACTOR TO PROVIDE FIELD POUR OF CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS AS NECESSARY.
 - THE CONNECTION BETWEEN THE STORM DRAIN LINE AND THE SVBF SHALL BE MADE USING A RESILIENT CONNECTOR CONFORMING TO ASTM C923, AS MADE BY KORN-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATER-TIGHT.
 - VEGETATION, FOUNDATION, SUBGRADE, AND BACKFILL TO BE DESIGNED BY OTHERS.
 - SVBF CAN BE RECONFIGURED AS AN OPEN TOP SWALE SYSTEM TO RECEIVE SURFACE FLOW FROM ALL SIDES, ELIMINATING TOP SLAB AND TREE GRATE.
 - SVBF MAY BE DEPLETED WITH UNFINISHED TOP OF WALLS TO BE POURED IN FIELD ALLOWING FOR CONSTRUCTION OF CONTINUOUS STREETSCAPE AND LANDSCAPE FEATURES.
 - INLETS THROUGH CURB CAN BE LOCATED ON ANY SIDE OF THE BOX AND THEIR DIMENSIONS VARY PER DESIGN.

MATERIALS & DESIGN PARAMETERS:

- ALL DIMENSIONS ARE IN DECIMAL INCHES.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F_c) = 5,000-psi AT 28-DAYS.
- THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE IV/H HIGH SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM CLASS M-C-150.
- VAULT SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C857 & C858.
- ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN NFCA CERTIFIED PLANT.
- IF REQUIRED, JENSEN WILL FURNISH VAULT WITH FLUID-APPLIED WATERPROOFING COATING AROUND ENTIRE INSIDE SURFACE OF SVBF.
- BRIDGING STONE SHALL BE CLEAN, WASHED.
- ALL PVC PIPE SHALL CONFORM TO ASTM D 3034 (SDR-35) PIPE.
- GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
- STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READY-TO-USE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS. www.jensenengineering.com.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
- JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
- ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.

TITLE SHEET: PLAN AND PROFILE VIEW	PROJECT: PROPOSED SELF STORAGE, WINDSOR, NJ	JENSEN ENGINEERING 521 DUNN CIRCLE, SPARKS, NV 89431-6312 (877) 684-0095 FAX (775) 440-2013 www.jensenengineering.com
ORIG. DWG. DATE: 07/19/2021	REV. DWG. DATE: XX/XX/XXXX	SCALE: AS SHOWN
SHEET SIZE: 11 X 17	DRAWN BY: S.T.	SHEET NUMBER: SHEET NO. 2 OF 3

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STORMVAULT BIOFILTRATION (SVBF) MODEL: SVBF-UV 8.3x9

NO SOL MEDIA UNITIZED TREATMENT FLUX RATE / HYDRAULIC SURFACE AREA LOADING RATE (HSA)	150-180 GPH (2-6 GPM/FT ²)
TREATMENT CHAMBER SURFACE AREA	75.4 FT ²
MODEL SVBF-UV 8.3x9, PEAK TREATMENT FLOW RATE	0.334 CFS
	150 GPM

- **JENSEN BIORETENTION & INFILTRATION TREE/PLANTER STORMVAULT BIOFILTRATION SIZES TO TREAT THE ENTIRE SQFT AT A RATE OF 150-180 GPH WHEN USING JENSEN'S ENGINEERED SIERRA BLENDED BIO SOIL.**
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 - PHOSPHORUS
 - TOTAL AND DISSOLVED COPPER
 - TOTAL AND DISSOLVED ZINC
 - OIL & GREASE
 - FECAL COLIFORM
- CONSTRUCTION & INSTALLATION NOTES:**
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 - CONTRACTOR MAY ALSO PROVIDE ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
 - CONTRACTOR TO PROVIDE FIELD POUR OF CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS AS NECESSARY.
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 - INLETS THROUGH CURB CAN BE LOCATED ON ANY SIDE OF THE BOX AND THEIR DIMENSIONS VARY PER DESIGN.

MATERIALS & DESIGN PARAMETERS:

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- VAULT SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C857 & C858.
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- BRIDGING STONE SHALL BE CLEAN, WASHED.
- ALL PVC PIPE SHALL CONFORM TO ASTM D 3034 (SDR-35) PIPE.
- GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
- STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READY-TO-USE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS. www.jensenengineering.com.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
- JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
- ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.

TITLE SHEET: PLAN AND PROFILE VIEW	PROJECT: PROPOSED SELF STORAGE, WINDSOR, NJ	JENSEN ENGINEERING 521 DUNN CIRCLE, SPARKS, NV 89431-6312 (877) 684-0095 FAX (775) 440-2013 www.jensenengineering.com
ORIG. DWG. DATE: 07/19/2021	REV. DWG. DATE: XX/XX/XXXX	SCALE: AS SHOWN
SHEET SIZE: 11 X 17	DRAWN BY: S.T.	SHEET NUMBER: SHEET NO. 2 OF 3

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Cimarron CL1

Area/Site Lighting



- Stylish vertically flined die-cast solid top housing and lower heat sink optimize heat dissipation.
- Isolated electrical compartment with integral heat sinking for cooler operation and longer drive life
 - Drivers have greater than 90% power factor and less than 20% THD
 - 0-10V dimming driver standard, order CD option to have dimming leads extended
 - Automatic thermal self protection
 - 20K A surge protection with an end of life LED indicator
 - 60,000 hours life (L90 @ 40°C)
 - Shipped with upstart or straight arm for uniform look and ease of installation
 - -40 deg F to 40 deg C ambient operation
 - Lateralized TGI polyester powder coat finish
- 3000K, 80 CRI, 4000K, 5000K, 67 CRI (Standard beam beam)
- Choice of 72 high brightness LED configurations with individual acrylic lenses aimed to produce IES type II, III, IV and V distributions and auto optics
- Backlight control option reduces spill light behind pole by 85%, doesn't change fixture appearance or EPA
- Listed to UL1598 and CSA C22.2 2850.0-24 for wet locations
- Increased lumens output with use of 150mA driver (90% only)
- Designtech Connetur (DCL) qualified, consult DCL website for more details <http://www.designtech.org/DCL>
- Turtle friendly Amber available

MADE-TO-ORDER ORDERING INFORMATION	
CL1 -	
SERIES	CL1 - Cimarron LED
NO. OF LEADS	NO. OF LEADS
VOLTAGE	VOLTAGE
CT	CT
DRIVE CURRENT	DRIVE CURRENT
OPTIONS	OPTIONS
DISTRIBUTION	
COLOR	
PIR MOTION/OCCUPANCY CONTROL OPTIONS	
WIRELESS CONTROL OPTIONS	

Visit www.hubbelloutdoor.com/products for up-to-date availability information

Cimarron CL1

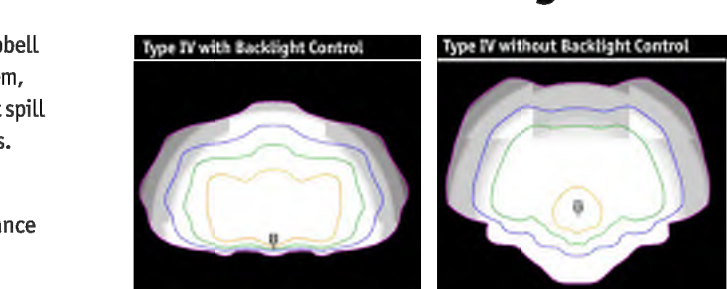
Area/Site Lighting

PERFORMANCE INFORMATION													
Series Number	Equivalency		Energy Savings	Delivered Lumens					System Watts		lumens Per Watt	CCT	
	MH	NPS		Type 2	Type 3	Type 4	Type 5	Type 5W	200W 12V/2T	347W 12V/2T			
CL1-30L-4K	175w	150w	67%	7,639	7,635	7,726	7,862	8,291	70	80	117	4000K	
CL1-40L-4K	320w	250w	62%	14,984	14,977	15,154	15,421	16,263	14,891	135	150	119	4000K
CL1-90L-4K	400w	400w	52%	22,035	22,026	22,286	22,678	23,916	21,899	205	225	115	4000K
CL1-90L-4K-105	750w	750w	60%	29,380	29,367	29,714	30,237	31,688	29,198	325	350	97	4000K
CL1-30L-5K	175w	150w	26%	8,021	8,036	8,412	8,182	8,706	7,991	70	80	123	5000K
CL1-40L-5K	350w	250w	66%	15,733	15,764	16,500	16,048	17,076	15,674	135	150	125	5000K
CL1-90L-5K	400w	400w	52%	23,137	23,182	24,245	23,601	25,112	23,051	205	225	121	5000K
CL1-90L-5K-105	750w	750w	60%	30,849	30,909	32,353	31,467	33,483	30,734	325	350	103	5000K

Consult specification sheet for additional performance information

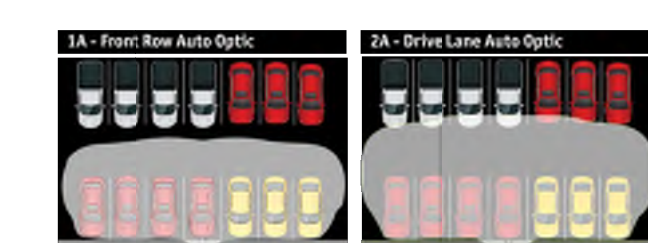
Backlight Control

- For those LED projects that require minimal light behind the pole, Hubbell Outdoor Lighting has a solution – Backlight Control. This unique system, designed specifically for LED lighting, will virtually eliminate the light spill behind the pole and is available on Cimarron LED CL1 and CL1S models. (See CL1 and CL1S page) for ordering information)
- Reduce light 85% behind the pole – industry leading performance
 - No change to fixture appearance or EPA
 - Achieves Impressive Backlight-Uplight-Glare (BUG) rating
 - Neighbor-friendly lighting
 - 2013 IES Progress Report Award winner



Automotive Dealership Optics

- For Automotive Dealership applications Hubbell Outdoor Lighting has developed two optics designed for enhanced and proper lighting of the auto dealership merchandise the front row 1A and interior rows 2A (See CL1 distribution information for details)
- Optic 1A**
- Maximum illumination on front row display
 - Maximum pole spacing
- Optic 2A**
- Excellent front row illumination and drive lane
 - Optimal uniformity for drive lane and interior rows



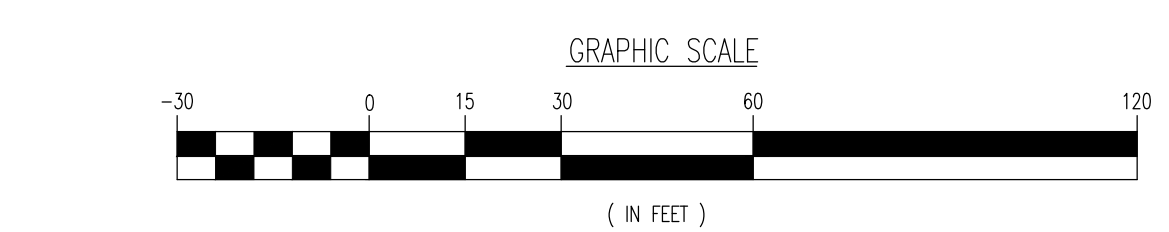
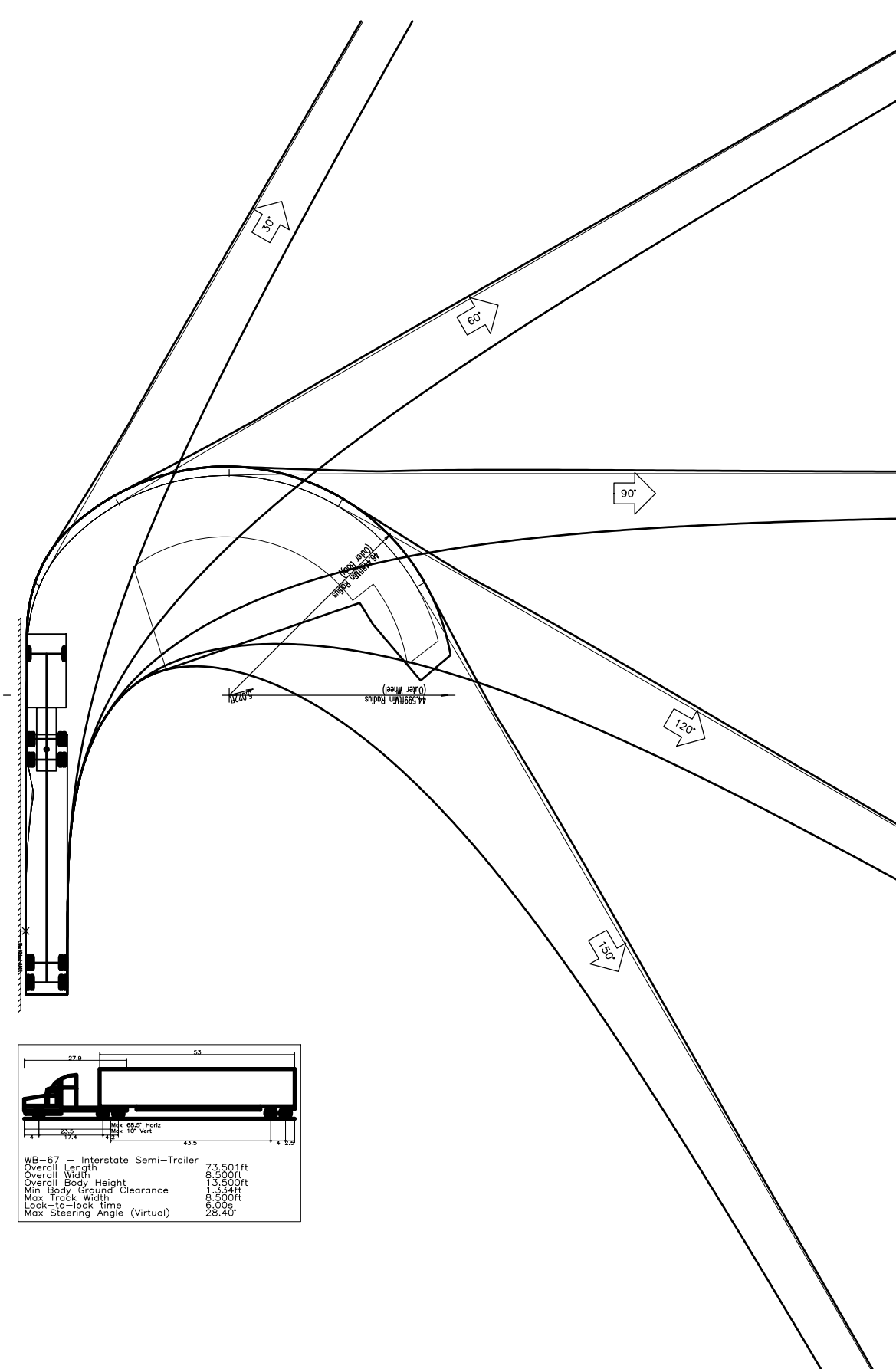
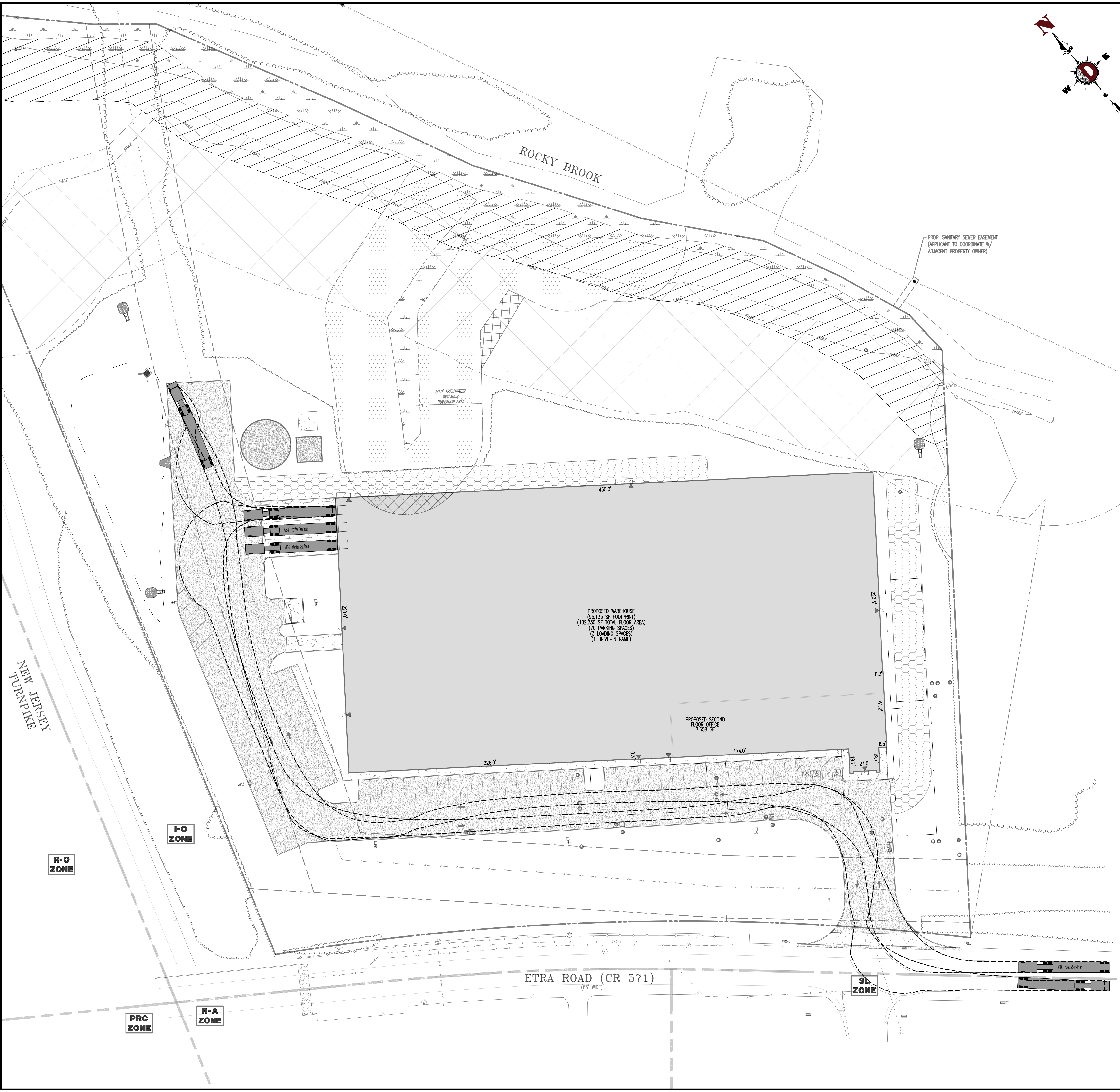
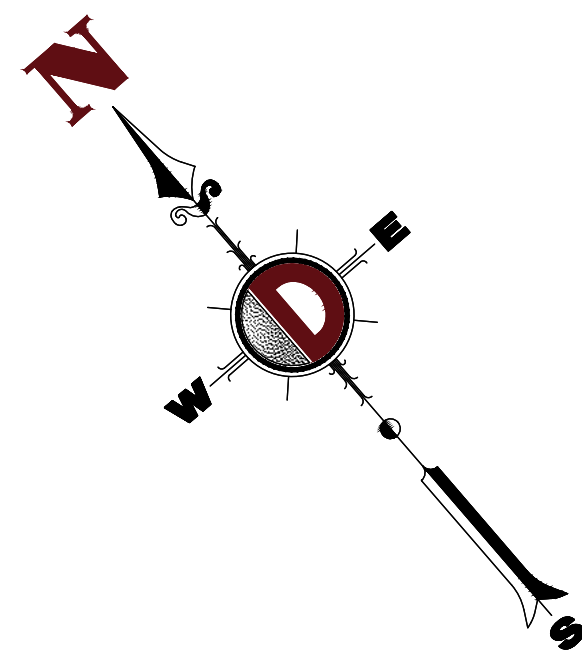
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LIGHTING DETAIL

NOT TO SCALE

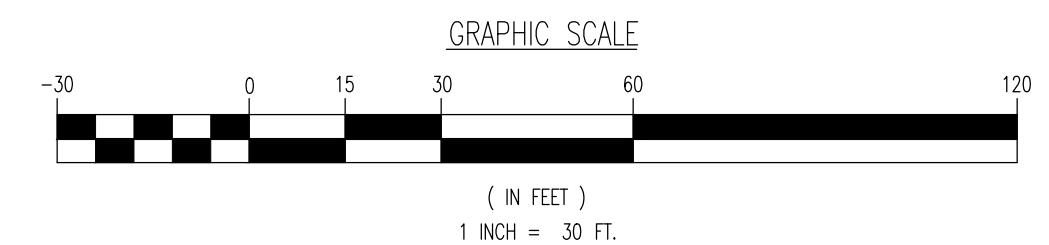
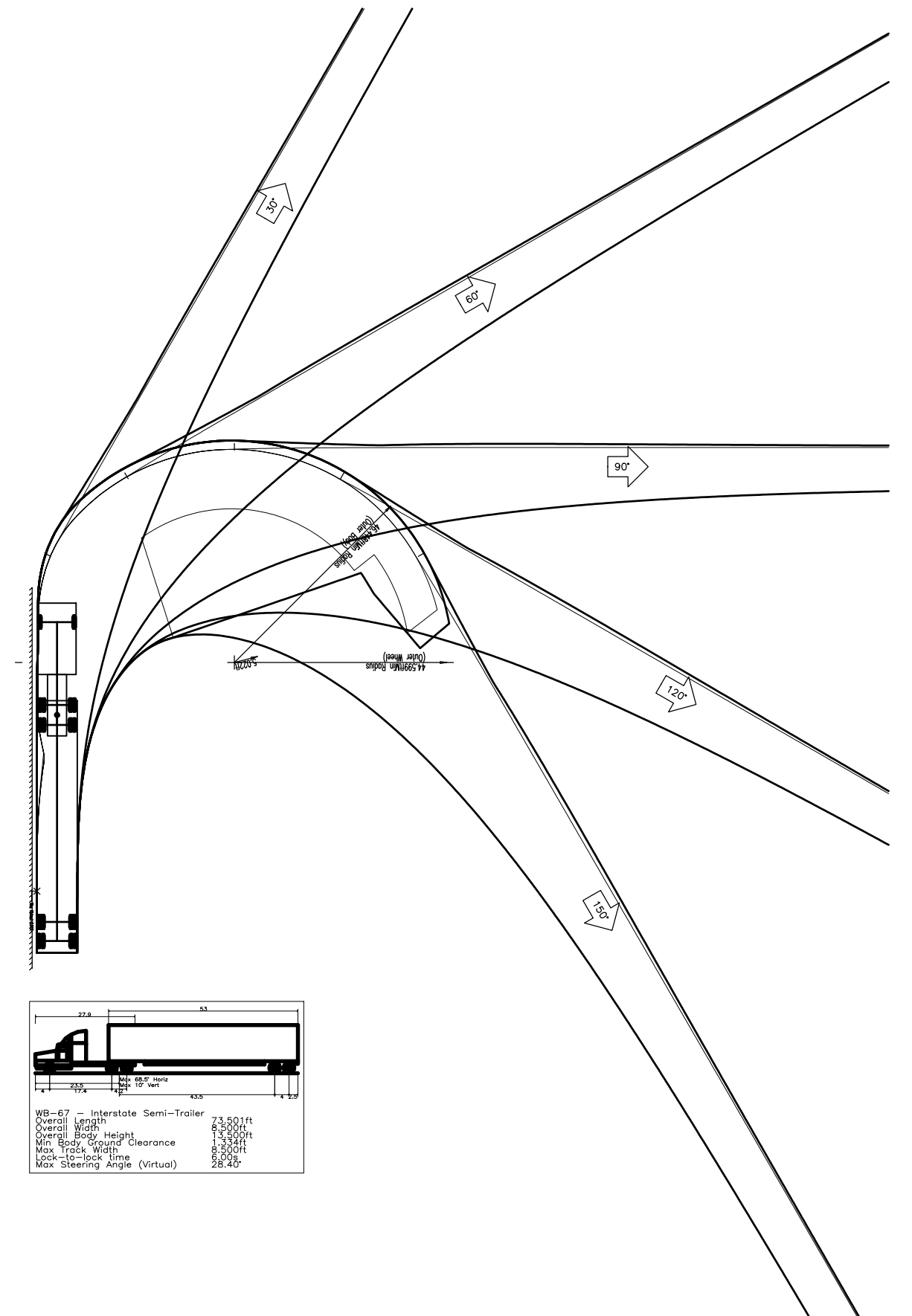
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TITLE: CONSTRUCTION DETAILS	
PROJECT: 261 ETRA RD. LLC PROPOSED WAREHOUSE	JOB No: 2871-99-003
DATE: 10/14/2021	SCALE (H) NOT TO (V) SCALE
DRAWN BY: GMC	DESIGNED BY: TAZ
CHECKED BY: TJM	DATE: 10/14/2021
THOMAS J. MULLER PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 52179	JOHN A. PALUS PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 41975
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TITLE: VEHICLE CIRCULATION PLAN (WB-67)	
PROJECT: 261 ETRA RD, LLC PROPOSED WAREHOUSE BLOCK 22.02, LOT 10 261 ETRA ROAD (CR 571) TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY	JOB No: 2871-99-003 DATE: 10/14/2021 DRAWN BY: GMC SCALE (H) 1"=30' (V) SHEET No: 17 OF 19 Rev. # 0
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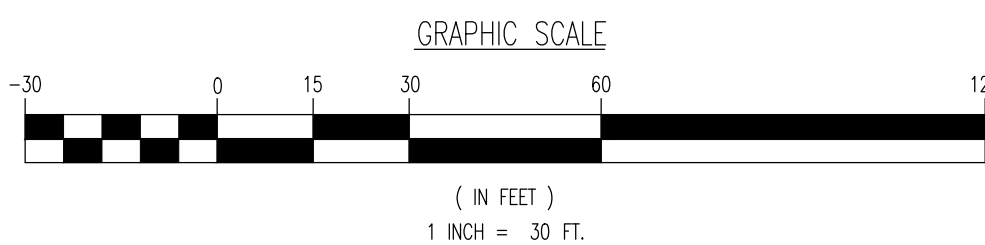
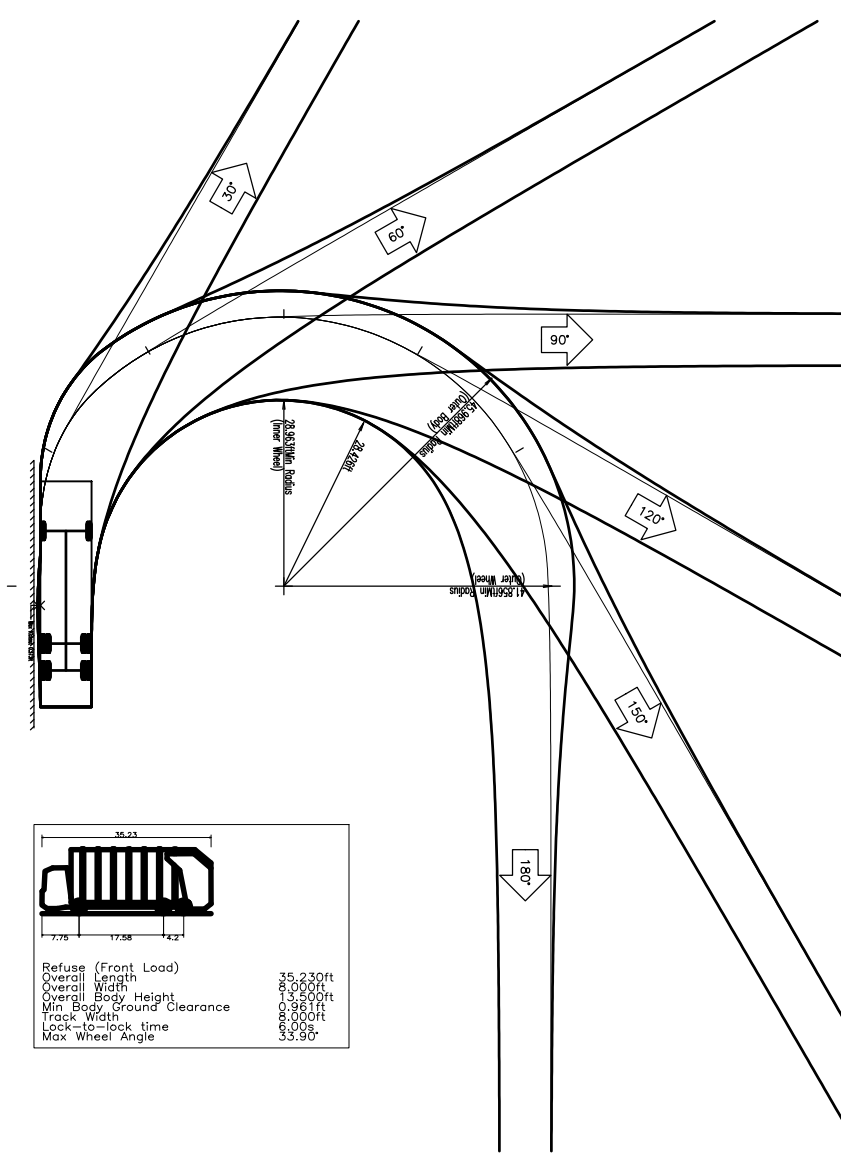
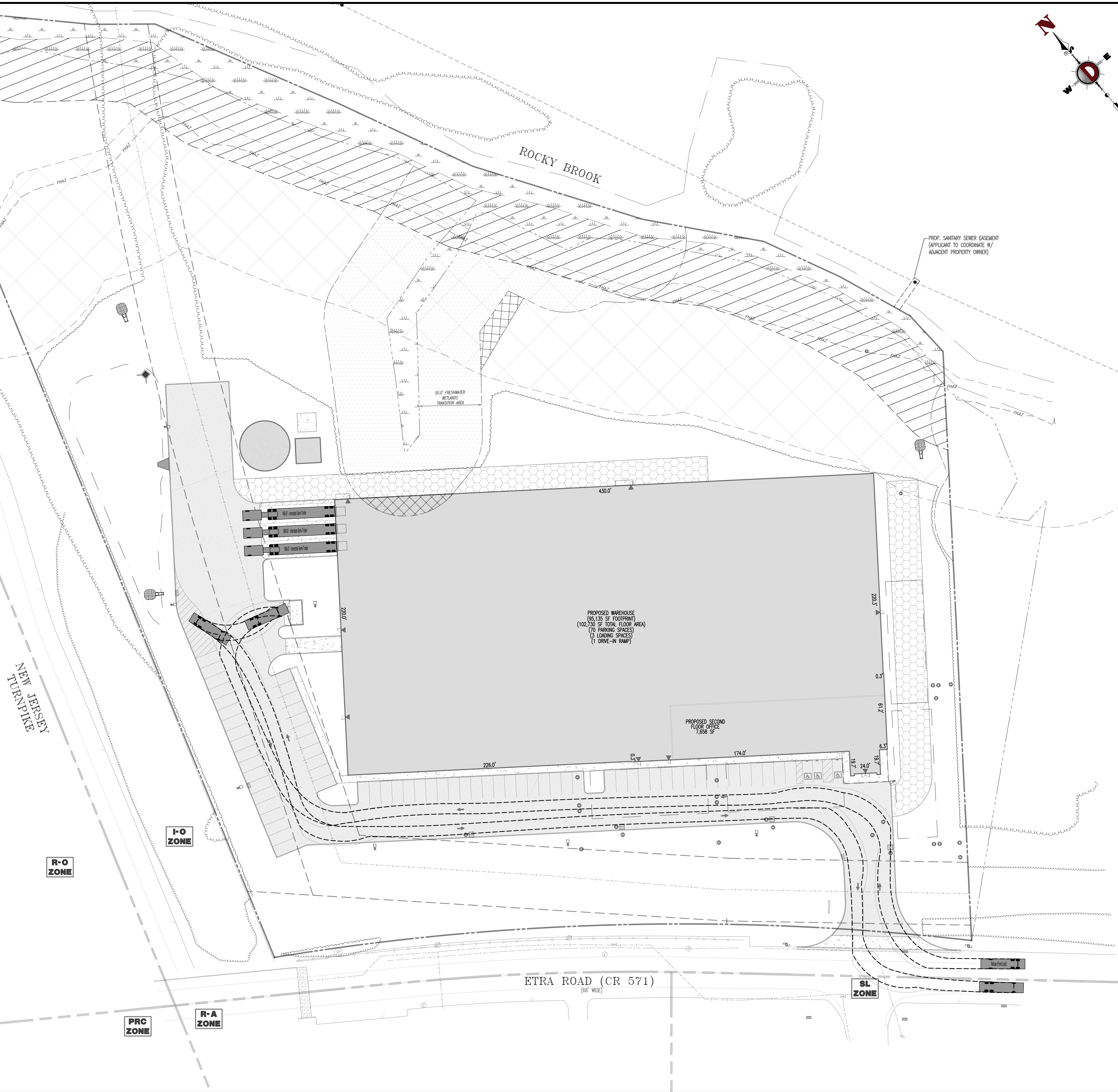
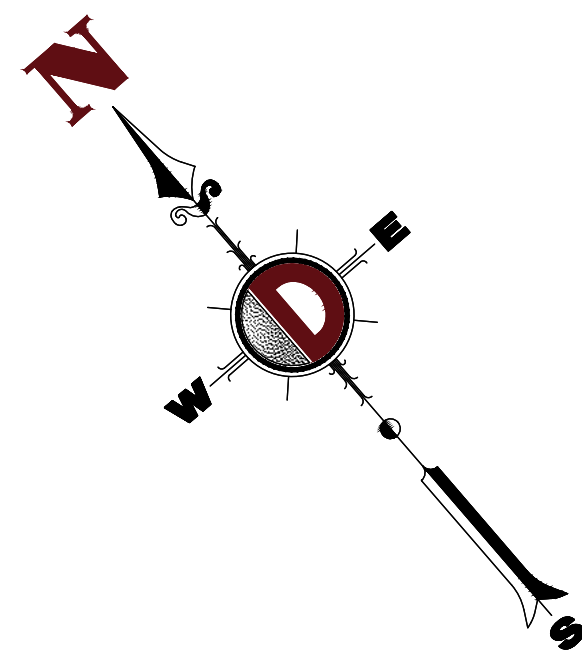
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 New York: 1.914.685.0259 • Philadelphia: 1.215.223.4000 • San Francisco, Pennsylvania: 1.610.368.4492

TITLE:		VEHICLE CIRCULATION PLAN (WB-67)						
Comments	PROJECT:	261 ETRA RD, LLC PROPOSED WAREHOUSE BLOCK 22.02, LOT 10 261 ETRA ROAD (CR 571) TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY			JOB NO:	2871-99-003	DATE:	15/14/2021
	THOMAS J. MULLER <i>Thomas J. Muller</i>	JOHN A. PALUS			DRAWN BY:	GMC	SCALE:	(H) 1"=30' (V)
					DESIGNED BY:	TAZ	SHEET No:	
					CHECKED BY:	TJM	18	OF 19
					CHECKED BY:	--		
Date	PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 52179			PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 41975				
Year	<div> PROTECT YOURSELF NEVER SIGN DOCUMENTS WITHOUT THE PROPER SEALING AND STAMPING OF ANY PROFESSIONAL ENGINEER OR ARCHITECT. NEVER SIGN WORK ON SITE FOR STATE SPECIFIC DRAFT PHONE NUMBERS VISIT: WWW.CALLISTAT.COM</div>							
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TITLE:
VEHICLE CIRCULATION PLAN (TRASH TRUCK)

PROJECT: **261 ETRA RD, LLC**
PROPOSED WAREHOUSE
BLOCK 22.02, LOT 10
261 ETRA ROAD (CR 571)
TOWNSHIP OF EAST WINDSOR, MERCER COUNTY, NEW JERSEY

JOB No: 2871-99-003
DATE: 10/14/2021
DRAWN BY: GMC
DESIGNED BY: TAZ
CHECKED BY: TJM

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PROFESSIONAL ENGINEER
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