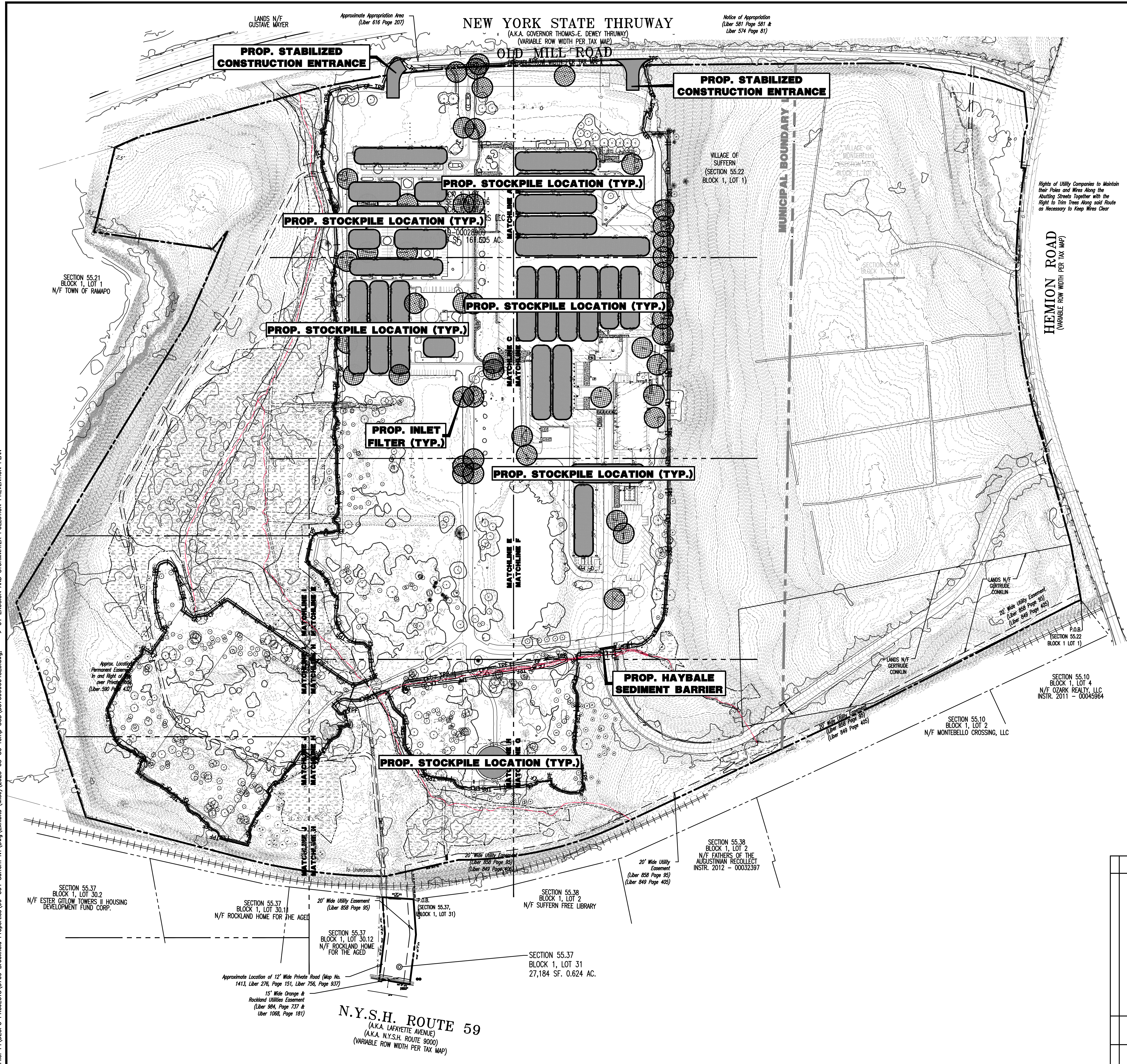
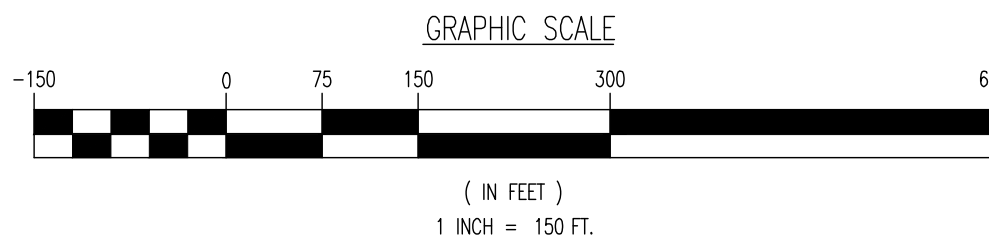
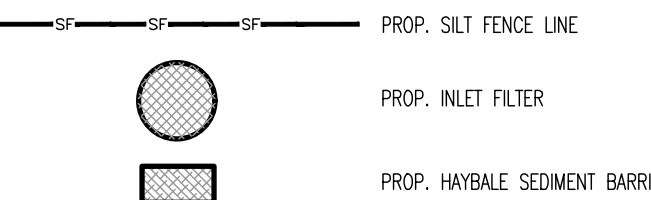


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**EROSION CONTROL LEGEND**



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**EROSION AND STORMWATER POLLUTION PREVENTION PLAN**

TITLE:  
PROJECT: **IV2 ROCKLAND LOGISTICS, LLC**  
**PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37; BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

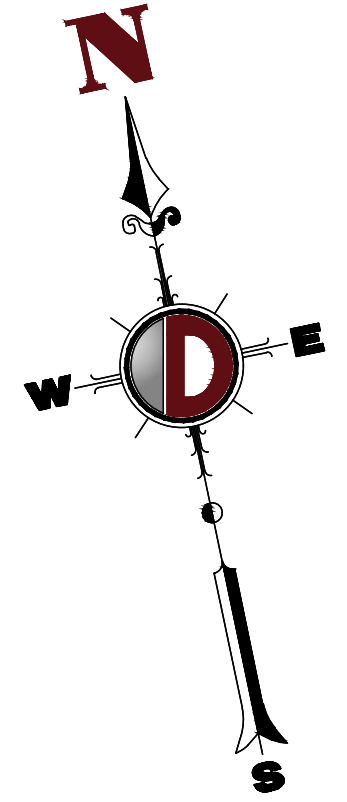
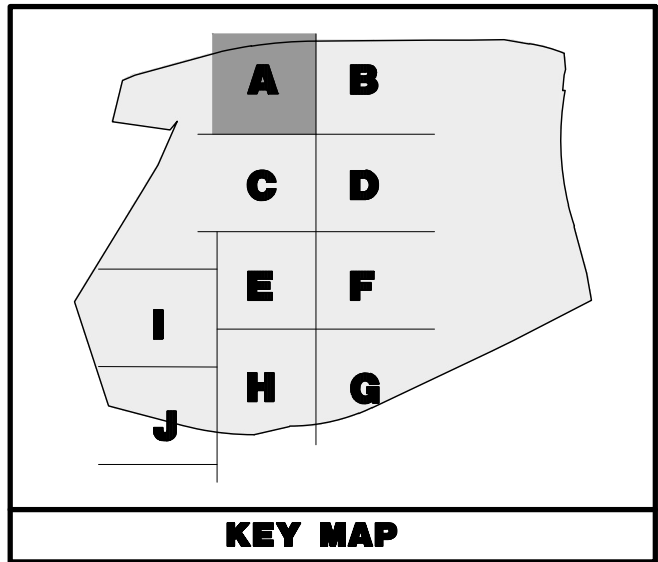
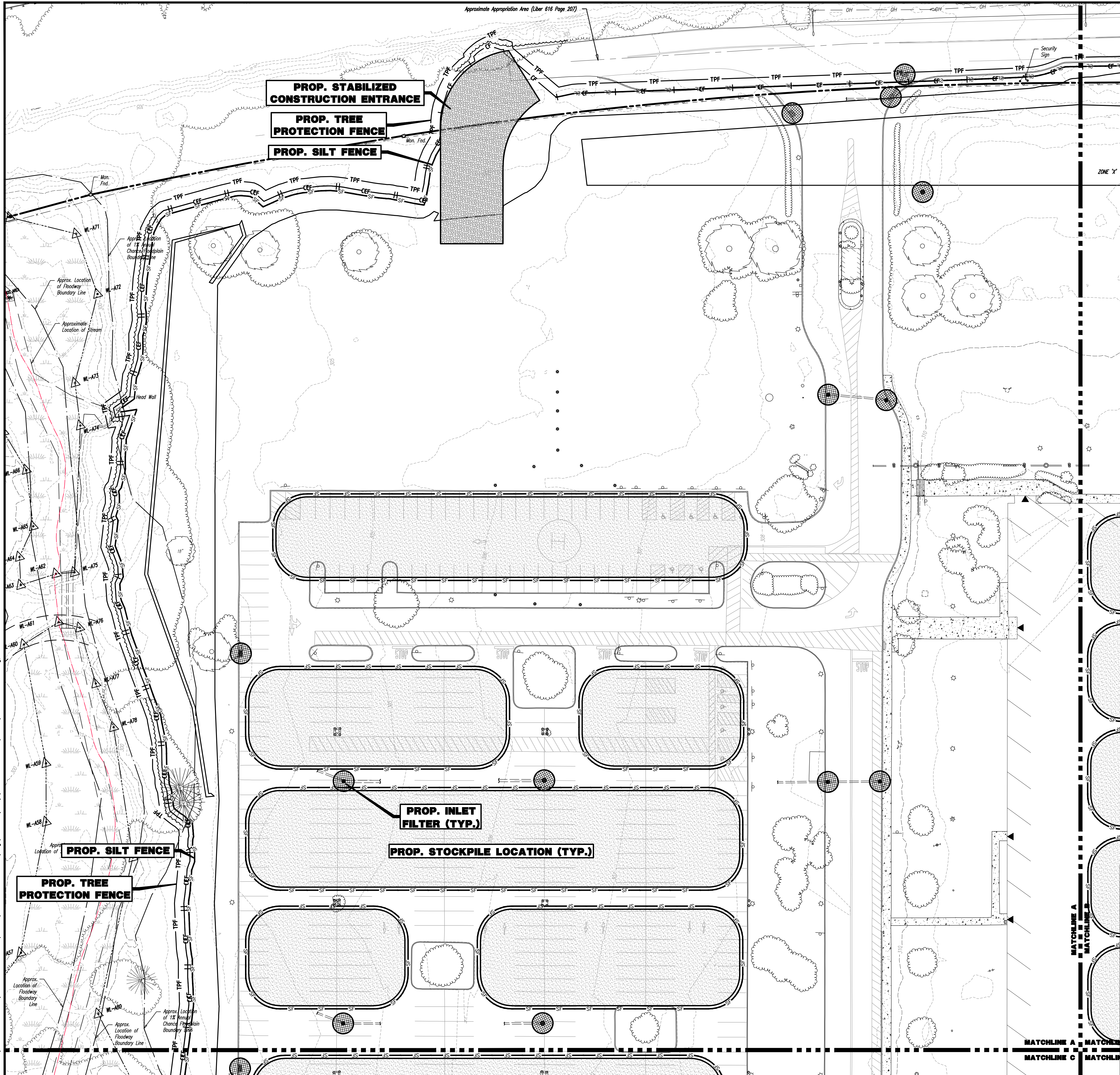
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(V)  
DESIGNED BY: JMS SHEET No:  
CHECKED BY: JMS  
CHECKED BY: -

**JOHN A. PALUS** **JOSHUA M. SEWALD**

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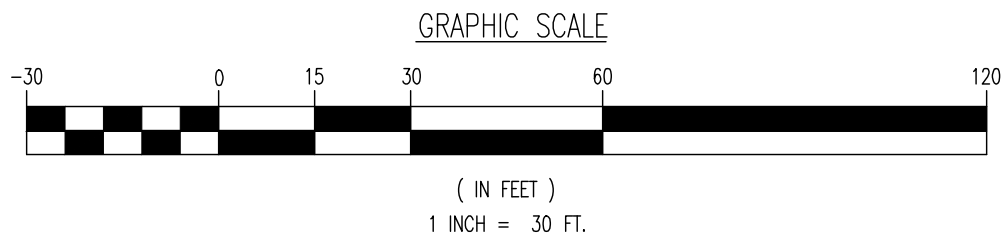


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**EROSION CONTROL LEGEND**

- PROP. SILT FENCE LINE
- PROP. INLET FILTER
- PROP. HAYBALE SEDIMENT BARRIER



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PROJECT: **IV2 ROCKLAND LOGISTICS, LLC**  
**PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37, BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

TITLE: **EROSION AND STORMWATER POLLUTION PREVENTION PLAN A**

JOB No: 3709-99-004 DATE: 05/30/2023  
DRAWN BY: GMC SCALE: (H) 1"=30'  
DESIGNED BY: JMS SHEET No: 2  
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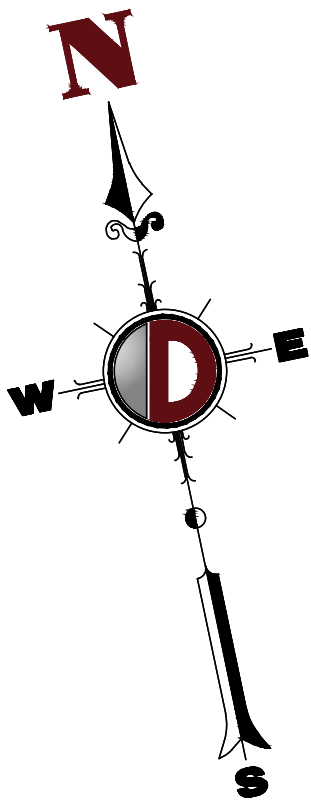
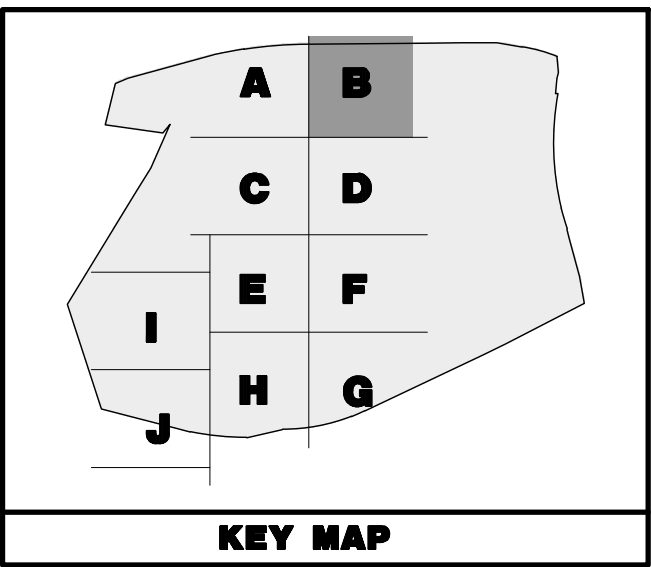
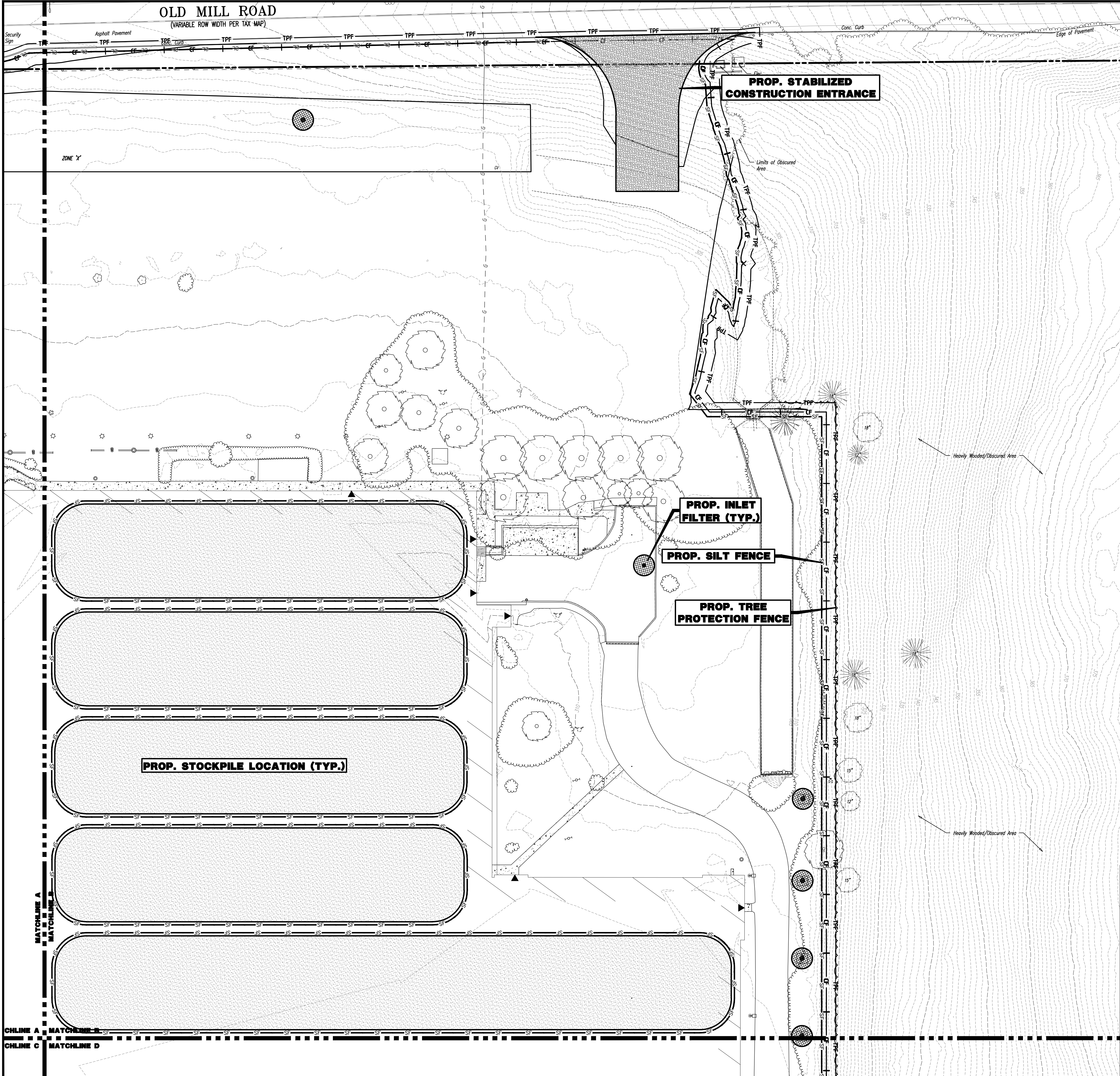
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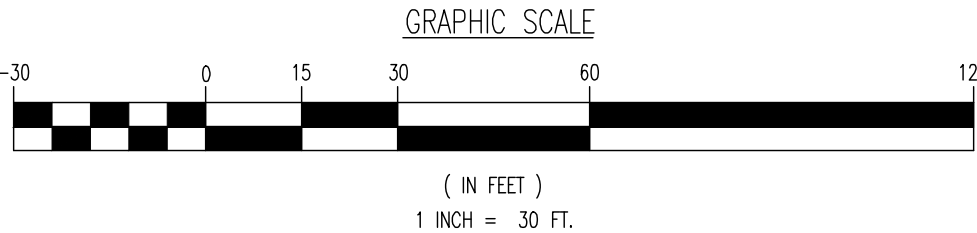


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**EROSION CONTROL LEGEND**

- PROP. SILT FENCE LINE
- PROP. INLET FILTER
- PROP. HAYBALE SEDIMENT BARRIER



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Newtown, Pennsylvania T: 267.683.0276 | Philadelphia, Pennsylvania T: 215.253.4868 | Bethlehem, Pennsylvania T: 610.256.4400

TITLE:  
**EROSION AND STORMWATER POLLUTION PREVENTION PLAN B**

PROJECT: **IV2 ROCKLAND LOGISTICS, LLC**  
**PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37, BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

JOB No: 3709-99-004  
DATE: 05/30/2023  
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PROFESSIONAL ENGINEER  
NEW YORK LICENSE No. 087639

**JOSHUA M. SEWALD**  
PROFESSIONAL ENGINEER  
NEW YORK LICENSE No. 097639

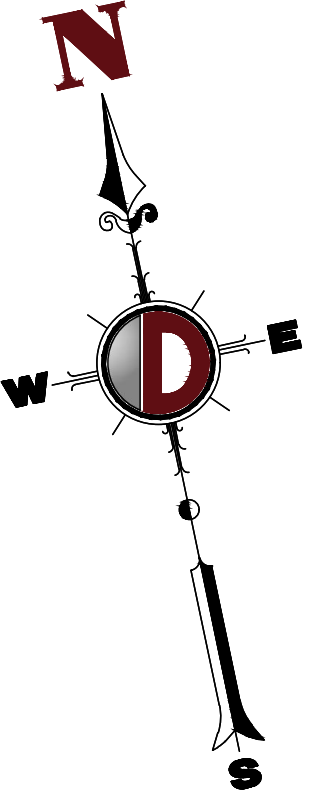
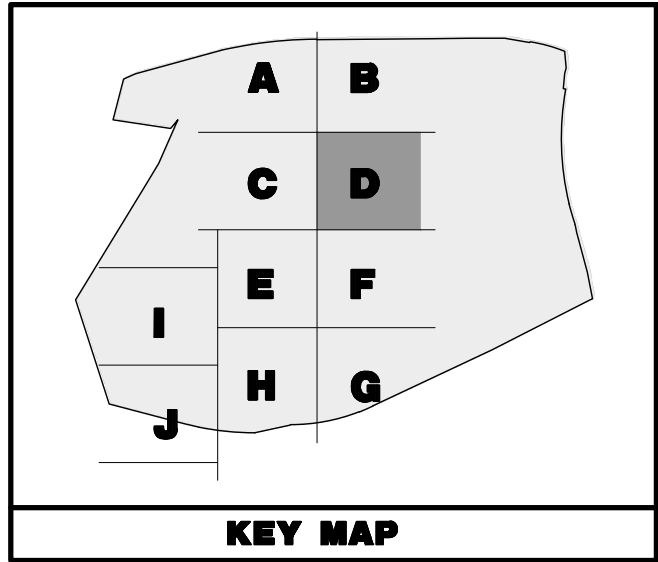
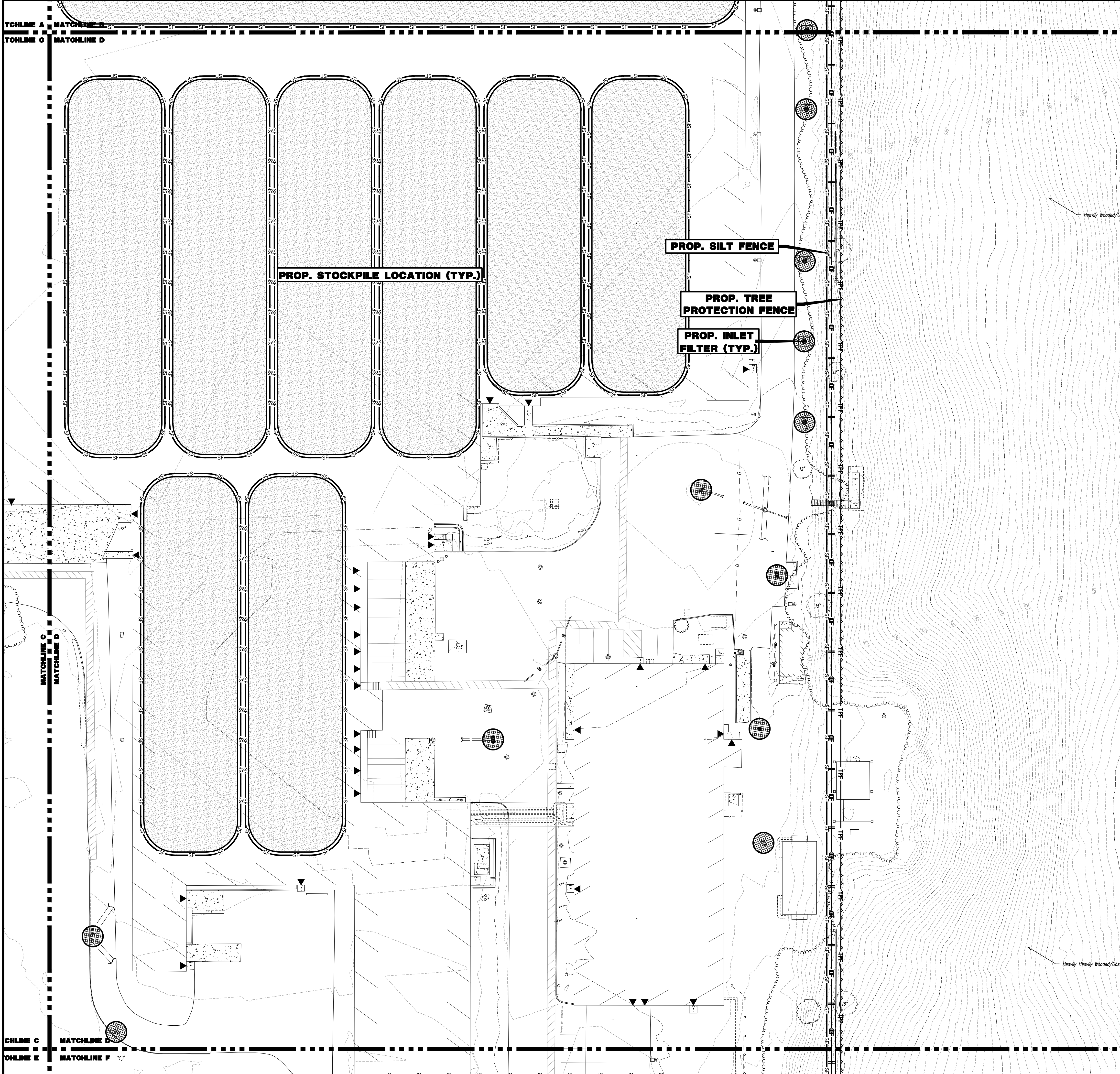
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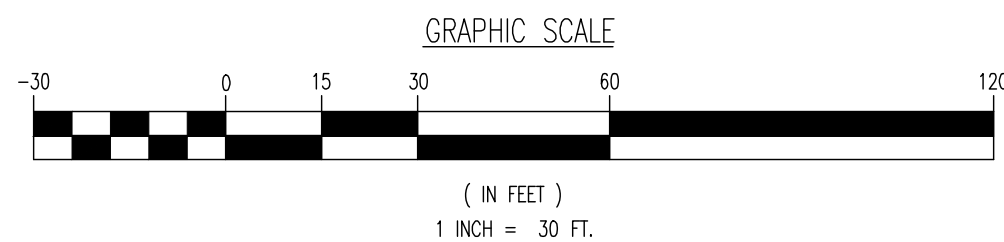


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#### EROSION CONTROL LEGEND

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TITLE:  
**EROSION AND STORMWATER POLLUTION PREVENTION PLAN D**

PROJECT: **IV2 ROCKLAND LOGISTICS, LLC**  
**PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37 BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

JOB No: 3709-99-004  
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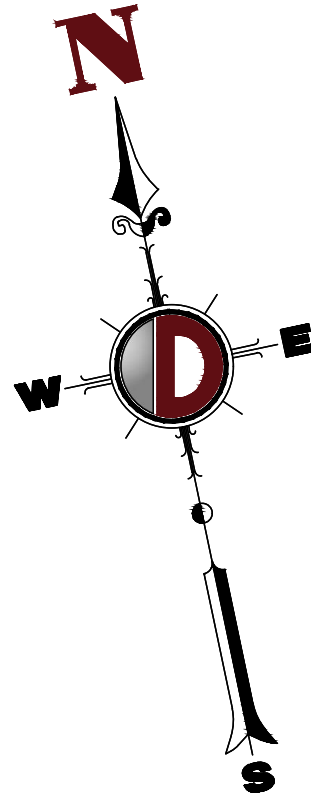
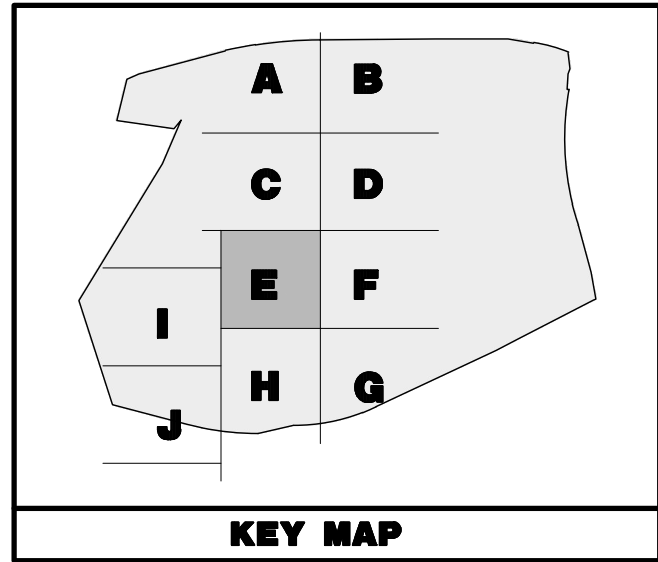
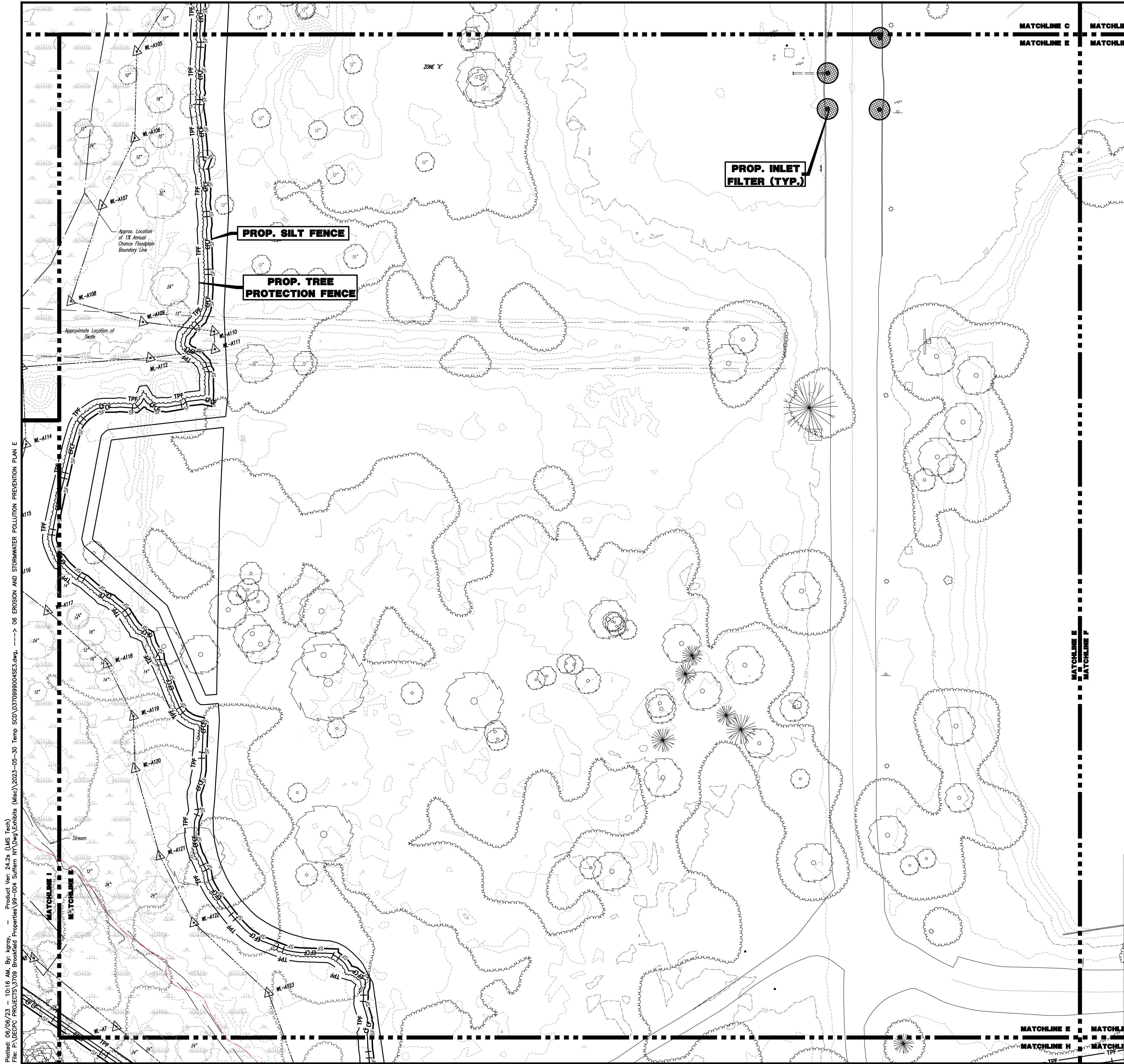
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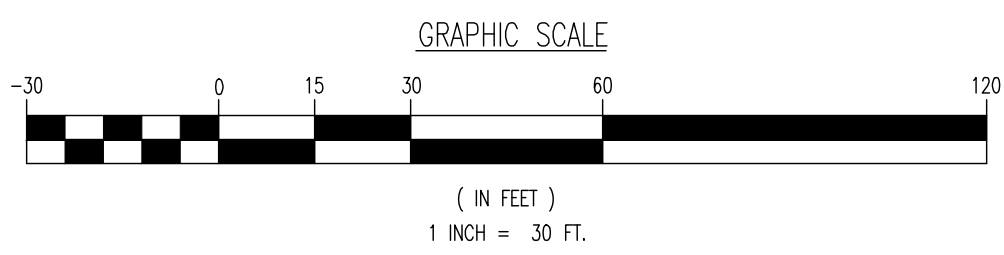
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TITLE:  
**EROSION AND STORMWATER POLLUTION PREVENTION PLAN E**

PROJECT: **IV2 ROCKLAND LOGISTICS, LLC  
PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37, BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

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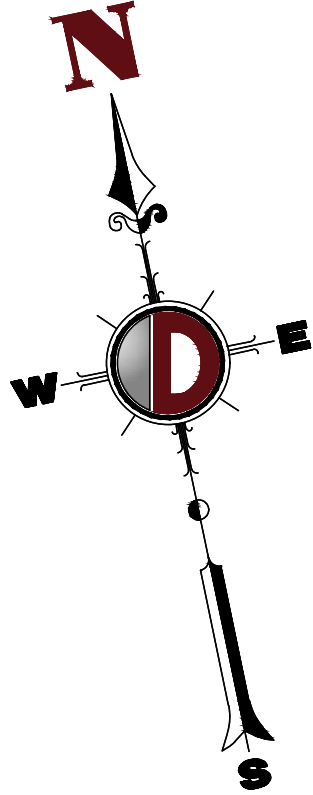
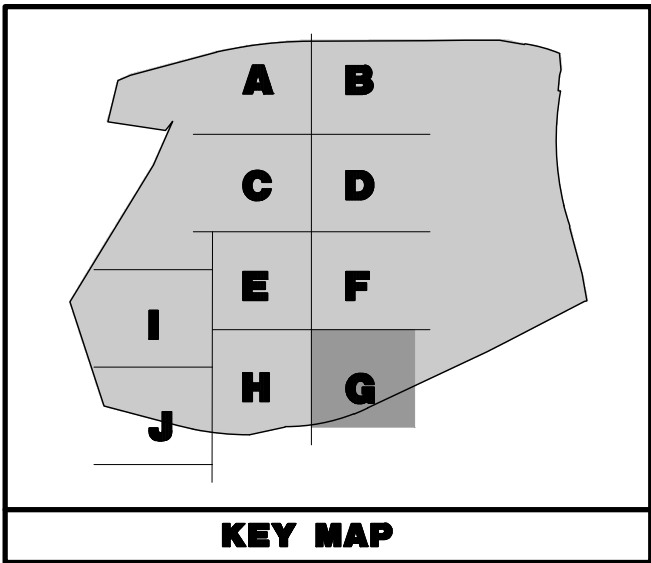
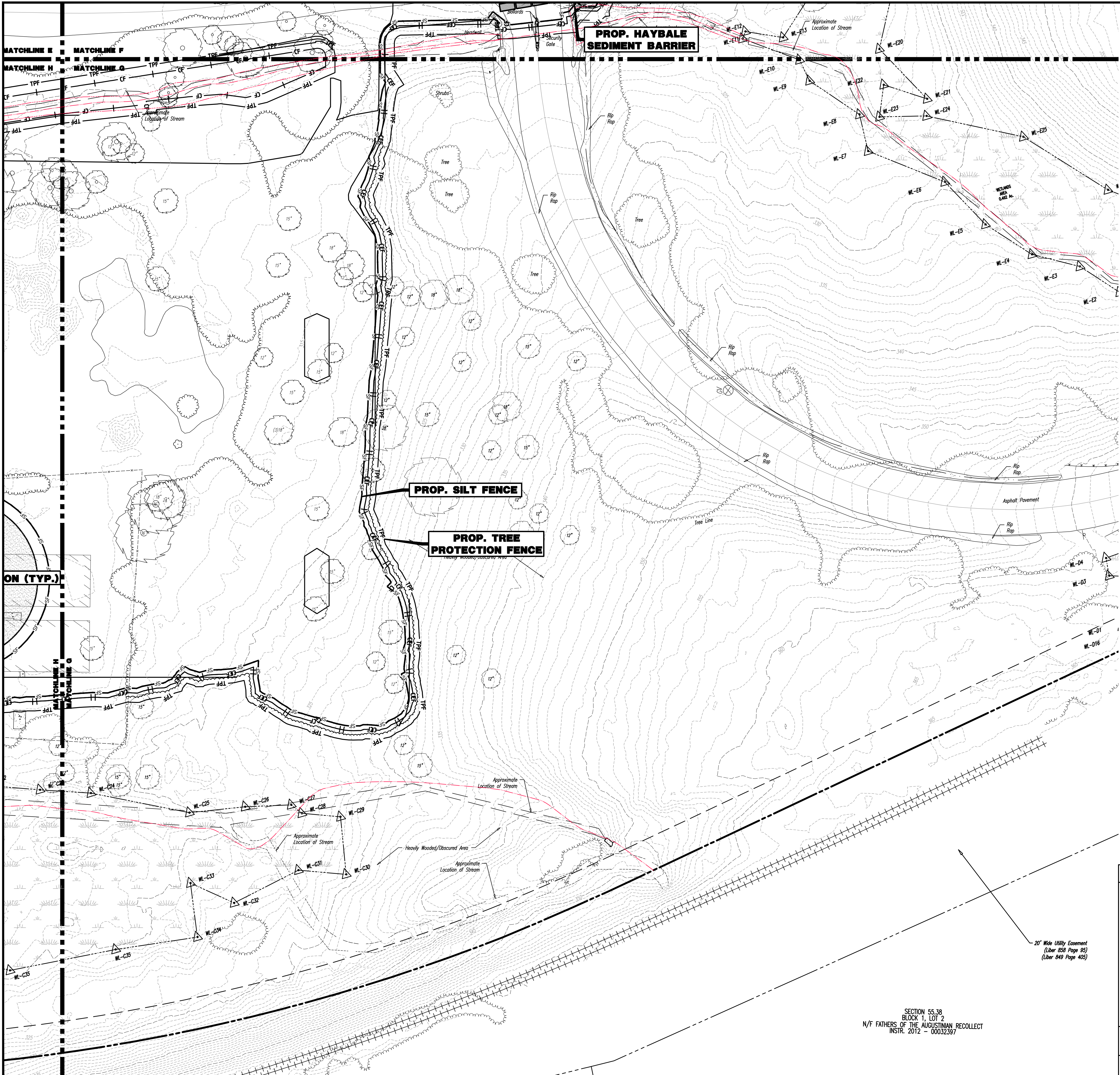
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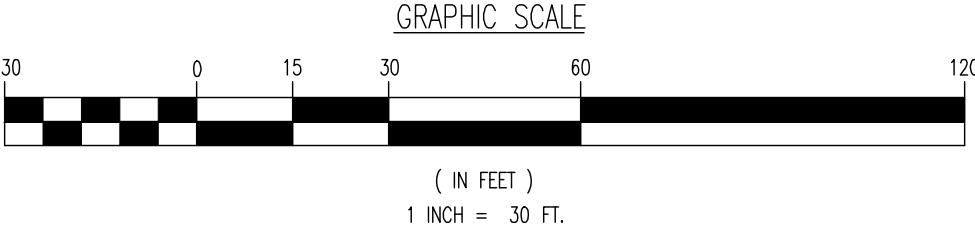


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#### EROSION CONTROL LEGEND

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TITLE:  
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PROJECT: **IV2 ROCKLAND LOGISTICS, LLC**  
**PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37; BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

JOB No: 3709-99-004  
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SHEET No: 8 OF 12

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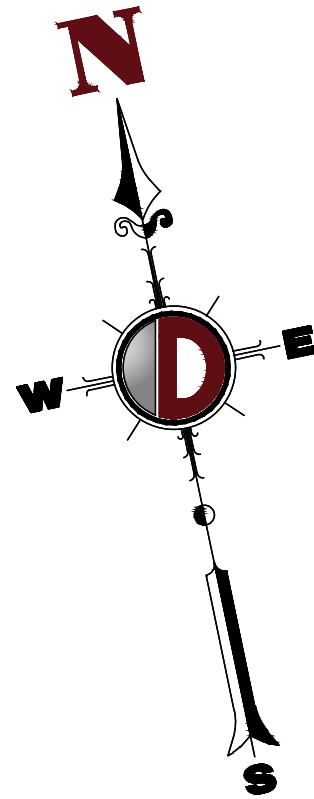
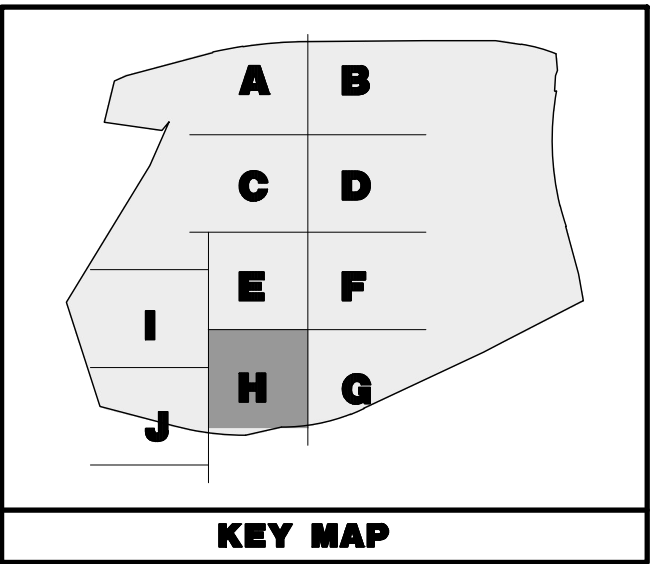
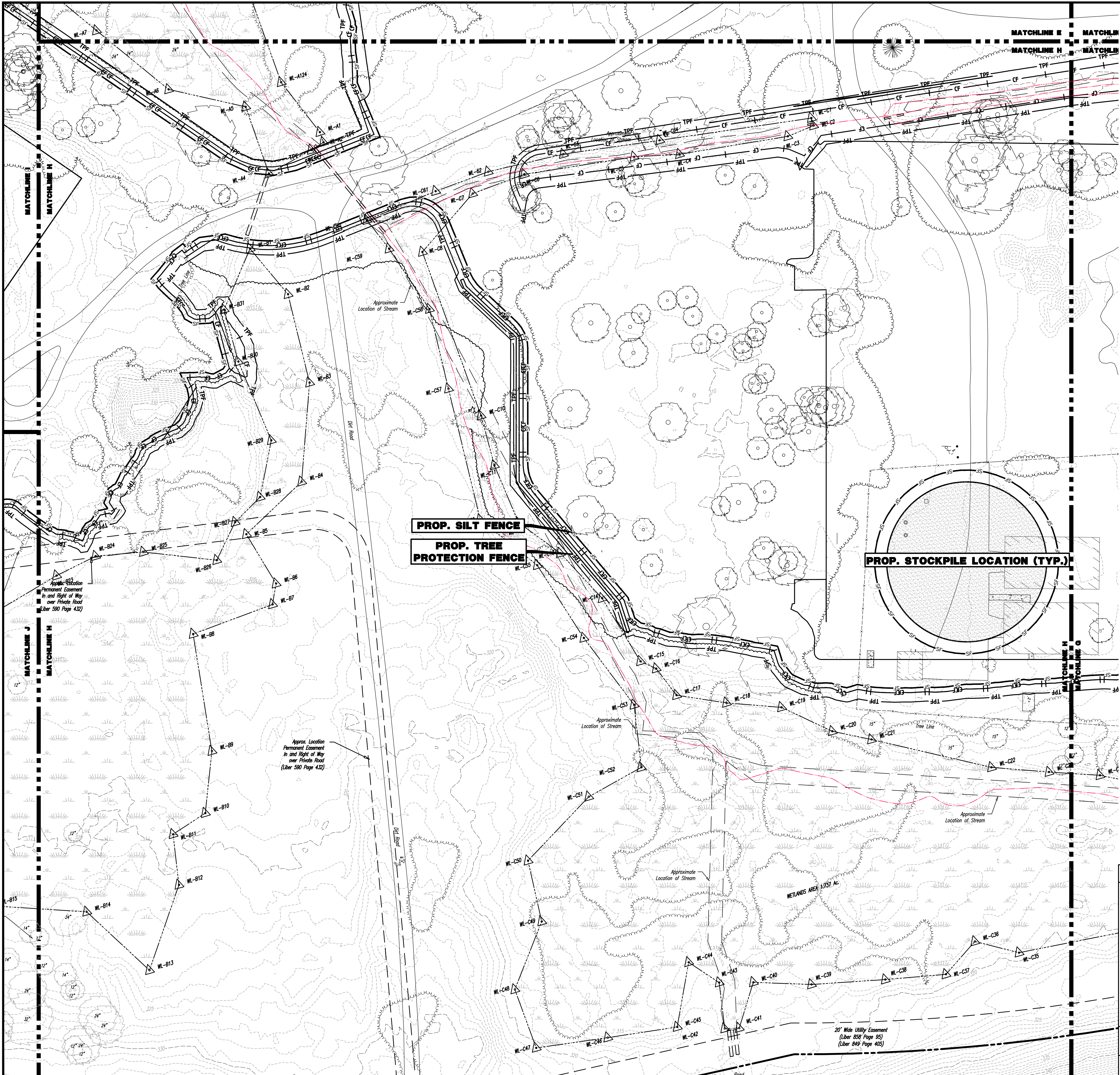
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SECTION 55.38  
BLOCK 1, LOT 2  
N/F FATHERS OF THE AUGUSTINIAN RECOLLECT  
INSTR. 2012 - 00032387

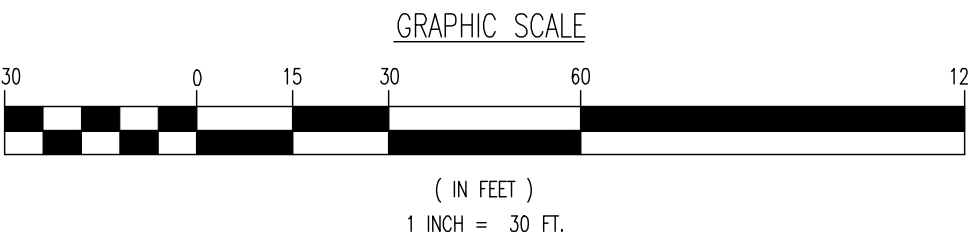


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**EROSION CONTROL LEGEND**

- PROP. SILT FENCE LINE
- PROP. INLET FILTER
- PROP. HYBALE SEDIMENT BARRIER



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TITLE: **EROSION AND STORMWATER POLLUTION PREVENTION PLAN H**

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SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37, BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

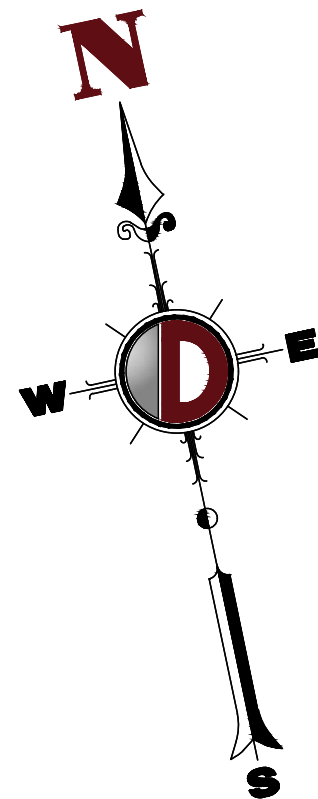
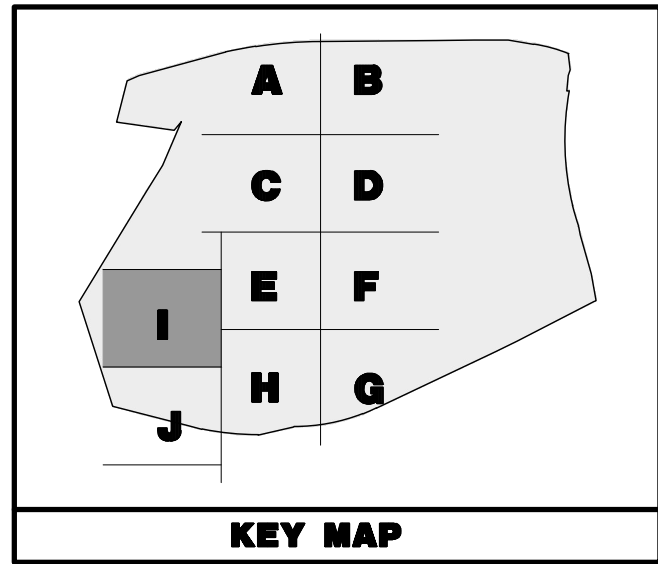
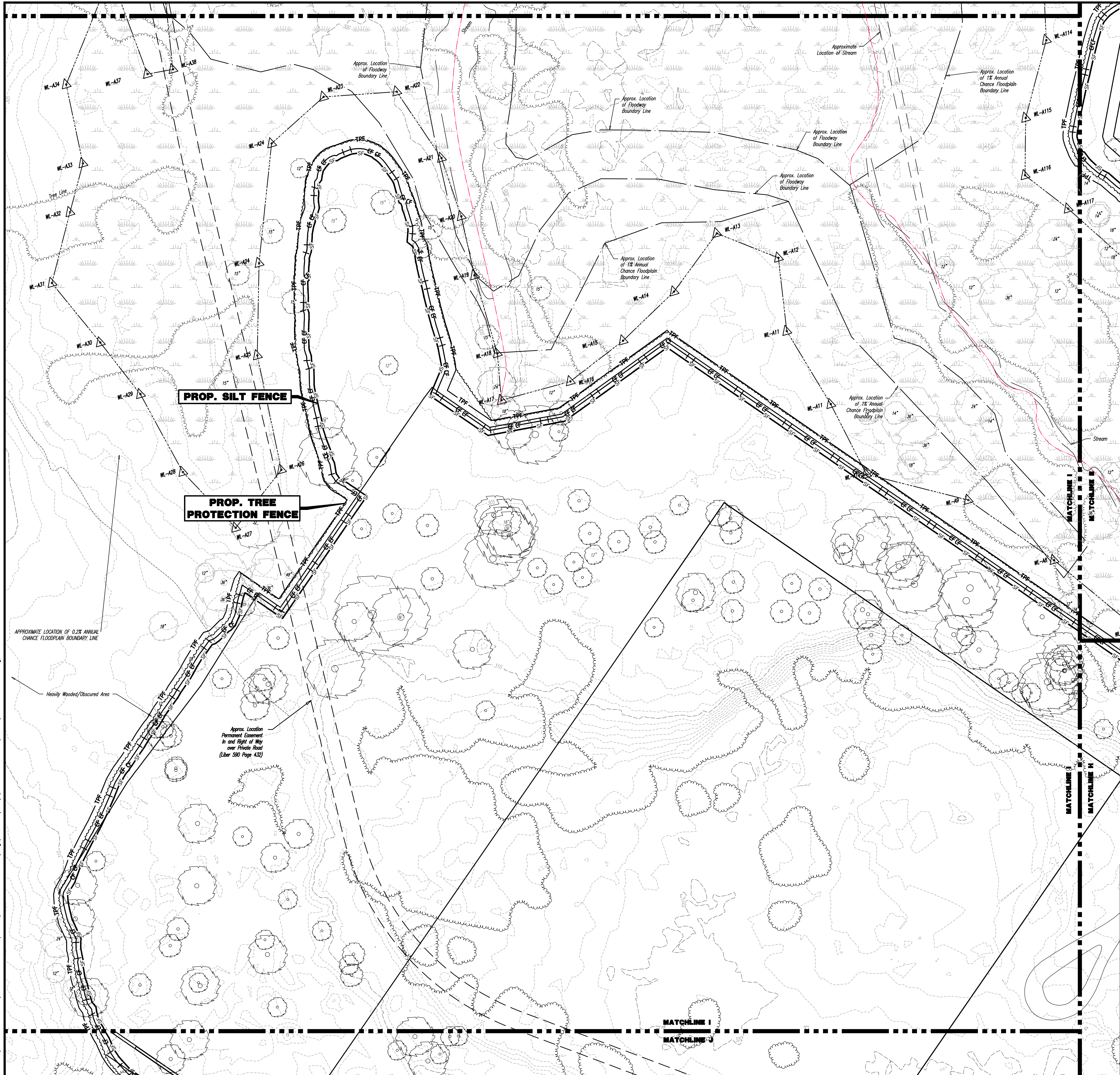
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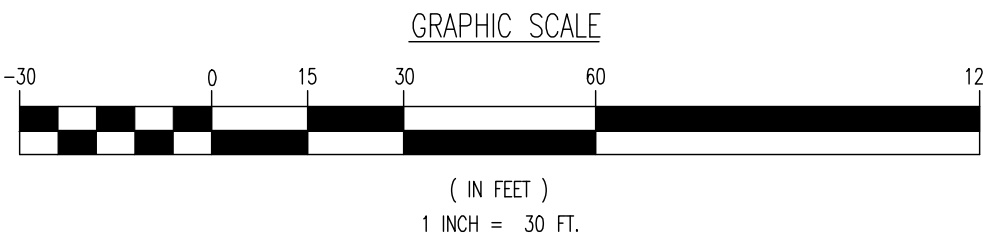


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#### EROSION CONTROL LEGEND

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TITLE: **EROSION AND STORMWATER POLLUTION PREVENTION PLAN I**  
PROJECT: **IV2 ROCKLAND LOGISTICS, LLC  
PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37, BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

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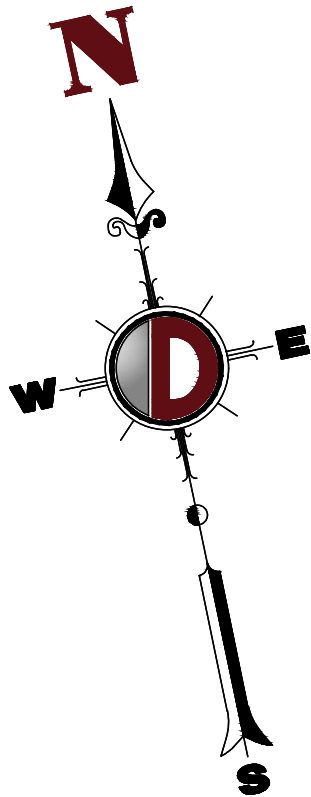
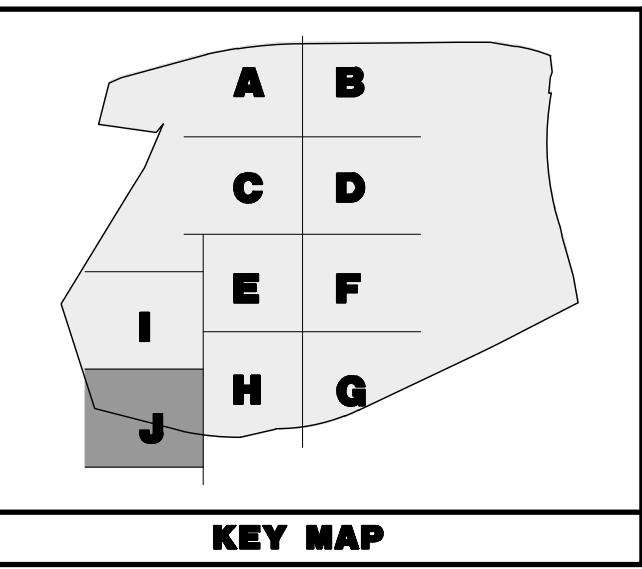
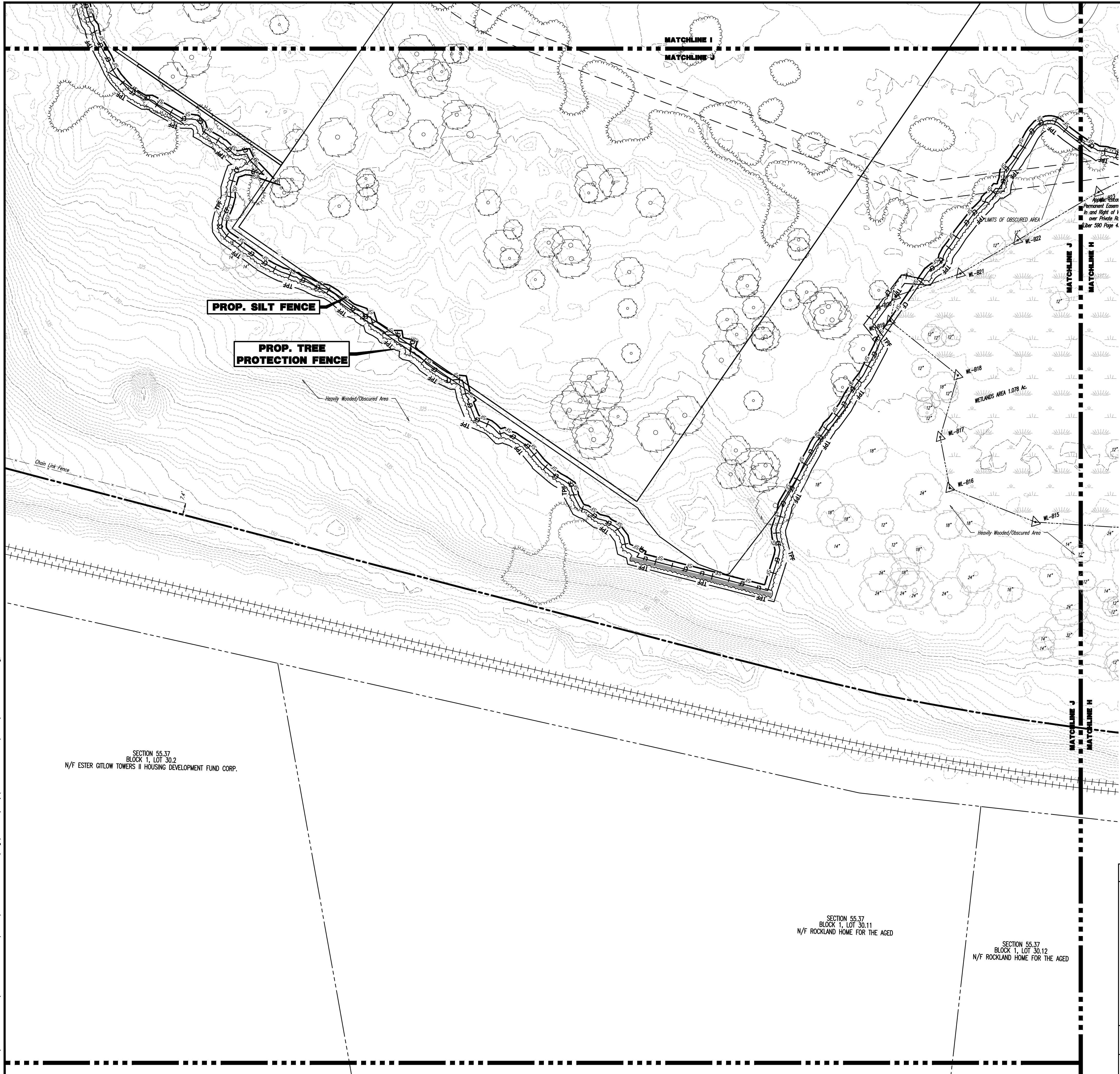
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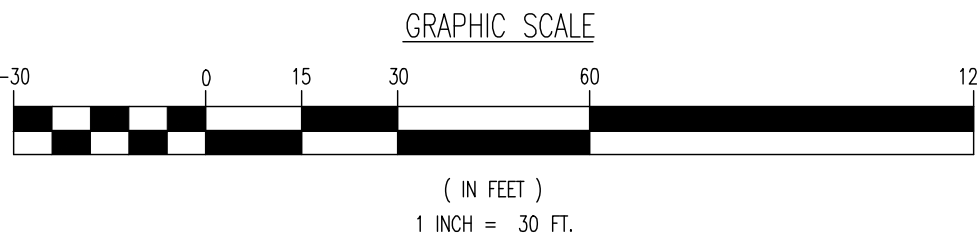


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**EROSION CONTROL LEGEND**

- SF — SF — SF — PROP. SILT FENCE LINE
- PROP. INLET FILTER
- PROP. HAYBALE SEDIMENT BARRIER



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TITLE:  
**EROSION AND STORMWATER POLLUTION PREVENTION PLAN J**

PROJECT: **IV2. ROCKLAND LOGISTICS, LLC**  
**PROPOSED INDUSTRIAL PARK AT 25 OLD MILL ROAD**  
SECTION 55.22 BLOCK 1, LOT 1; SECTION 55.37, BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
VILLAGE OF SUFFERN, ROCKLAND COUNTY, NEW YORK

JOB No:  
3709-99-004

DATE:  
05/30/2023

DRAWN BY:  
GMC

SCALE: (H) 1"=30'  
(V)

DESIGNED BY:  
JMS

CHECKED BY:  
JMS

SHEET No:  
**11**  
OF 12

Rev. #  
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File: P:\BCEPC PROJECTS\3709 Brookfield Properties\09-004 Suffern NY.Dwg (Misc) 2023-05-30 Temp SCD\370909004SE3.dwg, ---> 12 SOIL EROSION & SEDIMENT NOTES & DETAILS

**SEDIMENT & SOIL EROSION CONTROL NOTES:**

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SEVEN (7) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BE BOUND IN ACCORDANCE WITH THE STATE STANDARDS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
3. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
4. TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH THE STATE STANDARDS.
5. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, SUB-BASE WILL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUN-OFF IS INVERTED TO SOIL EROSION MID SEDIMENT CONTROL FACILITIES.
7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACK FILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER 3:1).
8. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
9. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOOD PLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES MUST BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE.
10. A CRUSHED STONE VEHICLE WHEEL CLEANING BLANKET WILL BE INSTALLED IMMEDIATELY AFTER INITIAL SITE DISTURBANCE AND WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. BLANKET SHALL BE 1'-1/2" TO 2" CRUSHED STONE AND AT LEAST 30' X 100', AND MUST BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
11. MAXIMUM SLIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED.
12. ANY INDIVIDUAL ACCESS ROADS OR DRIVES MUST BE STABILIZED WITH 2-1/2" CRUSHED STONE PRIOR TO COMMENCEMENT OF CONSTRUCTION IN THAT AREA.
13. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
14. ALL CATCH BASIN INLETS MUST BE PROTECTED WITH A CRUSHED STONE OR HAY BALE FILTER (SEE DETAIL).
15. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUT FALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
16. ALL DE-WATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHALL BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC (SEE DETAIL).
17. PERMANENT VEGETATION TO BE SEEDD OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
18. ALL UNSTABILIZED AREAS TO BE SPRINKLED WITH WATER UNTIL WET AT THE BEGINNING OF EACH DAY TO CONTROL DUST.
19. ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.
20. AT THE TIME OF SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION, ANY SOIL NOT SUITABLE TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER WILL BE REMOVED OR TREATED IN SUCH A WAY TO PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. (IF REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE PROVIDED.)
21. ALL SITE WORK FOR SITE PLANS WILL HAVE TO BE COMPLETED PRIOR TO THE SOIL CONSERVATION DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
22. THE APPROVING AUTHORITY MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION AND SHALL BE NOTIFIED IN WRITING 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBANCE.
23. ANY CHANGES TO THE CERTIFIED SOIL EROSION MID SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.

**STABILIZATION SPECIFICATIONS -  
TEMPORARY SEEDING AND MULCHING**

- LIME - 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS/1,000 SF; 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4".

- SEEDS:

COOL SEASON: PERENNIAL RYE GRASS 100LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.

WARM SEASON: PEARL MILLET AT 20 LBS/AC, OR OTHER APPROVED SEEDS; PLANT BETWEEN MAY 15 AND AUGUST 15.

- MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF TO BE APPLIED ACCORDING TO THE STATE STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER.

**STABILIZATION SPECIFICATIONS -  
PERMANENT SEEDING**

- PERMANENT STABILIZATION SPECIFICATIONS: SEEDING:

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 1/2" DIAMETER.

2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

3. SEEDING RATES:

PERENNIAL RYEGRASS	1/2 LB/1,000 SQ FT
KENTUCKY BLUEGRASS	1 LB/1,000 SQ FT
RED FESCUE	1 1/2 LB/1,000 SQ FT
SPREADING FESCUE	1 1/2 LB/1,000 SQ FT
FERTILIZER (20-10-10)	14 LBS/1,000 SQ FT
MULCH	100 LBS/1,000 SQ FT

4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDD AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

- PERMANENT STABILIZATION SPECIFICATIONS: MULCHING:

A. UNROTTED SMALL-GRAIN STRAW, OR SALT HAY 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 DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF SOIL SURFACE WILL BE COVERED.

C. MULCH ANCHORING TO BE DONE IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:

- (1) PEG AND TWINE
- (2) MULCH NETTING
- (3) LIQUID MULCH-BINDERS

**MULCH STABILIZATION**

A. UNROTTED SMALL-GRAIN STRAW, OR SALT HAY 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 DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

B. ASPHALT EMULSION IS RECOMMENDED AT THE RATE OF 600 TO 1,200 GALLONS PER ACRE. THIS IS SUITABLE FOR A LIMITED PERIOD OF TIME WHERE TRAVEL BY PEOPLE, ANIMALS, OR MACHINES IS NOT A PROBLEM.

C. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAYBE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.

D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER.

E. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC,, MAYBE USED.

F. MULCH ANCHORING TO BE DONE IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:

- (1) PEG MID TWINE
- (2) MULCH NETTING
- (3) LIQUID MULCH-BINDERS

**SEQUENCE OF 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.

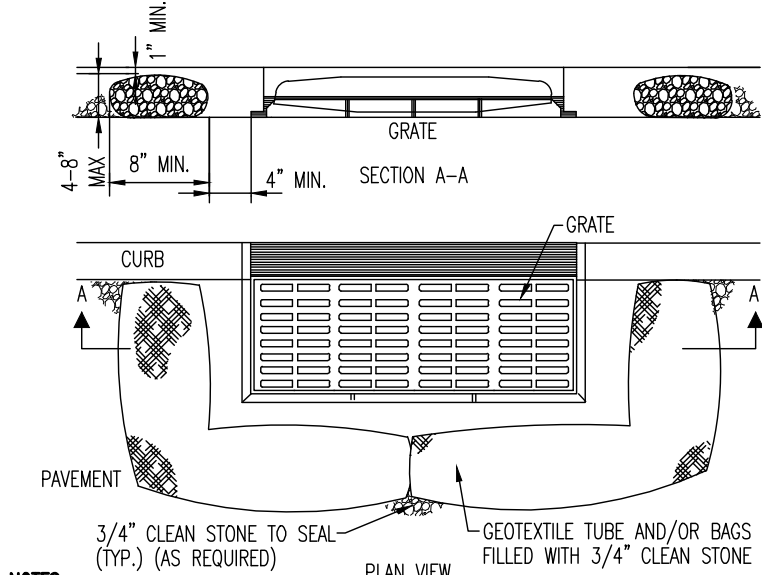
PHASE 5: COMPLETE BUILDING CONSTRUCTION.

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.

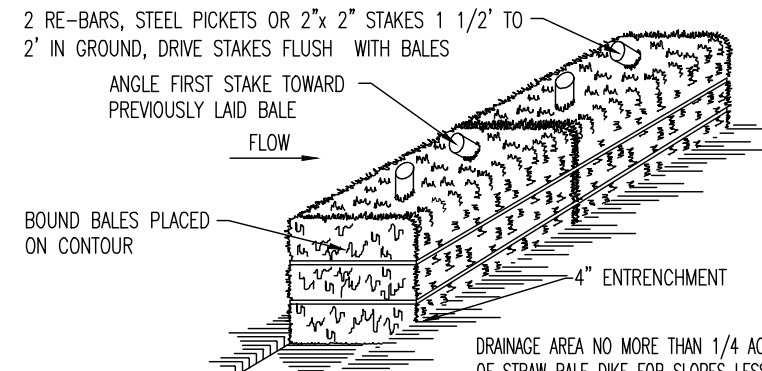
PHASE 9: REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAYBALES, SILT FENCING AND TREE PROTECTION FENCING.



- NOTES:**
1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT 1177, BY SYNTHETIC INDUSTRIES INC., OR TERRATEX SC, BY WESPEC INC. OR APPROVED EQUAL.
  2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE.
  3. WHERE NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCLOSE THE DRAIN INLET.
  4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.
  5. THE PROTECTION FENCE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.
  6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
  7. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.

**INLET FILTER DETAIL**

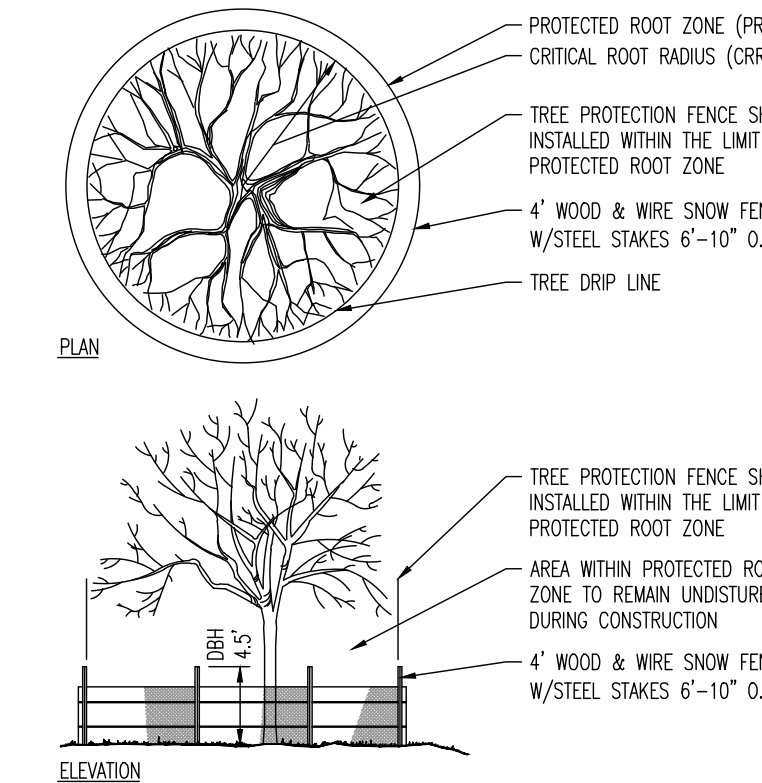
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- NOTES:**
1. BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  2. EACH BALE SHALL BE PLACED SO THE DRIBBLES ARE HORIZONTAL.
  3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAD BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
  4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
  5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

**HAYBALE SEDIMENT BARRIER DETAIL**

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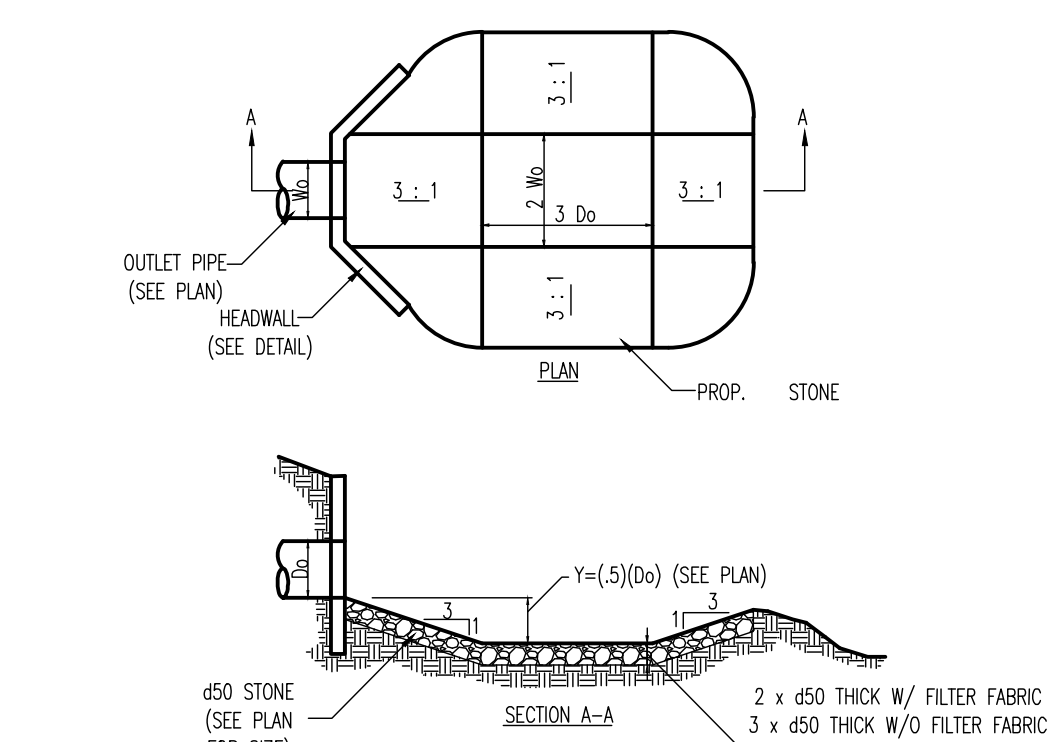
- ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR).
1. MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
  2. MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET

DBH x 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.

DBH x 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES.

**TREE PROTECTION DURING  
SITE CONSTRUCTION DETAIL**

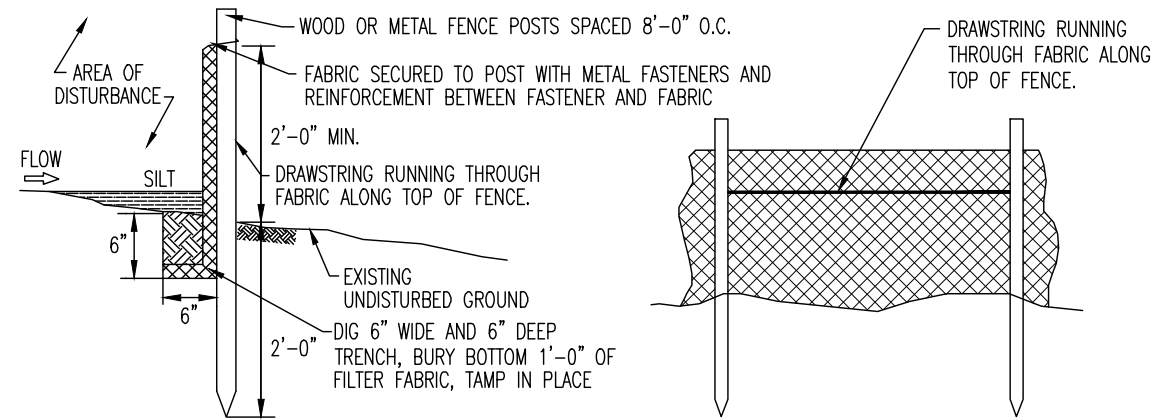
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- NOTE:**
1. FILTER FABRIC SHALL MEET THE MINIMUM REQUIREMENTS SET FORTH IN THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NJ.

**PREFORMED SCOUR HOLE DETAIL**

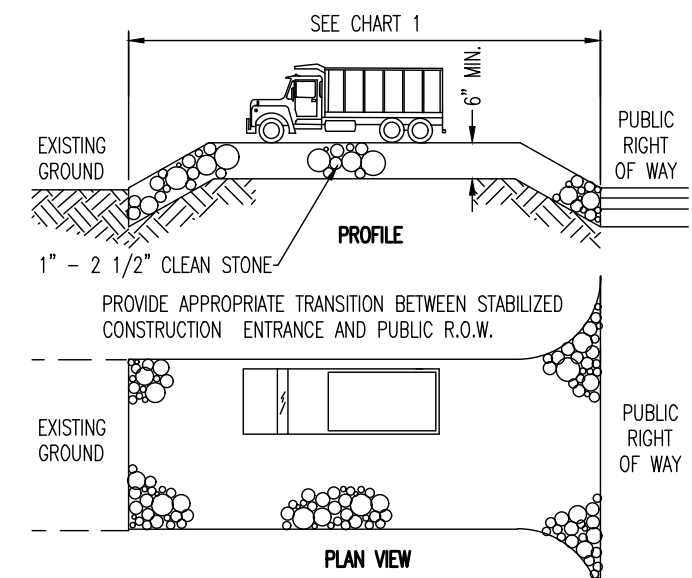
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1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT.
3. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRICT.
6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES.
8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

**SILT FENCE DETAIL**

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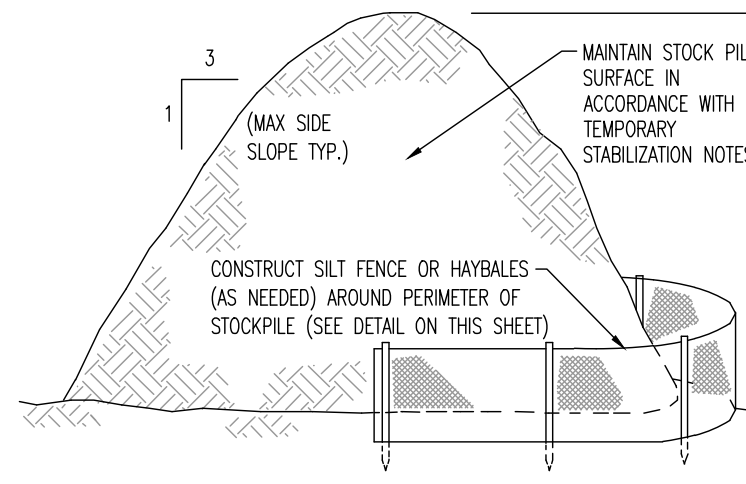
**CHART 1**

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED
0 TO 2%	COARSE GRAINED SOILS: 50 FT FINE GRAINED SOILS: 100 FT
2% TO 5%	200 FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABR BASE COURSE (1)

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

**STABILIZED CONSTRUCTION ENTRANCE**

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**TEMPORARY STOCKPILE DETAIL**

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TITLE:  
**SOIL EROSION & SEDIMENT NOTES & DETAILS**

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SECTION 55.22, BLOCK 1, LOT 1; SECTION 55.37, BLOCK 1, LOT 31  
OLD MILL ROAD AND HEMION ROAD (CR 93)  
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