



CONSULTING ENGINEERS, D.P.C.

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RICHARD D. McGOEY, P.E. (NY & PA)

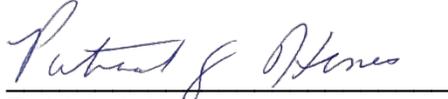
**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT: DARRIGO SOLAR FARM
PROJECT NO.: 19-24
PROJECT LOCATION: SECTION 86, BLOCK 1, LOT 96
REVIEW DATE: 9 APRIL 2021
MEETING DATE: 15 APRIL 2021
PROJECT REPRESENTATIVE: ARDEN CONSULTING- MICHAEL MORGANTE, P.E.

1. After receipt of numerous comments at the Public Hearing, Field Reviews of the project in the vicinity of Patton Road were undertaken. Additional input was received from residents during the Field Review. The Applicants representative have identified the installation of an additional culvert pipe to convey flow across Patton Road. Previous drainage work by the Town installed a 12 inch diameter drainage pipe at the northerly termination of the swale from the parcel.
2. The swale along the common property line of the subject parcel with the neighboring residential parcel will be cleaned out as part of this project to prevent surface run off from the Darrigo site from entering the adjoining residential parcel. An additional Field Review was undertaken with representatives of the Highway Department regarding the area drainage system.
3. The Planning Board previously issued a Clearing and Grading Permit and received security required under Chapter 83 of the Code. This security should remain in place until such time as all clearing and grading activities on the site have been completed. It is noted that all trees proposed to be cut have been cut within the time frame permitted to mitigate impacts to protected Bat Species.
4. Other uses on the site have been identified with a more detailed plan. The Planning Board will be reviewing the Site Plan for the solar array as well as the uses currently contained on the site. Notes have been added to the plans indicating the time frame for the special event uses which have historically been occurring on the project site.
5. Security for landscaping and stormwater improvements should be provided. Estimates for each of these items should be submitted for consultant review.

Respectfully submitted,

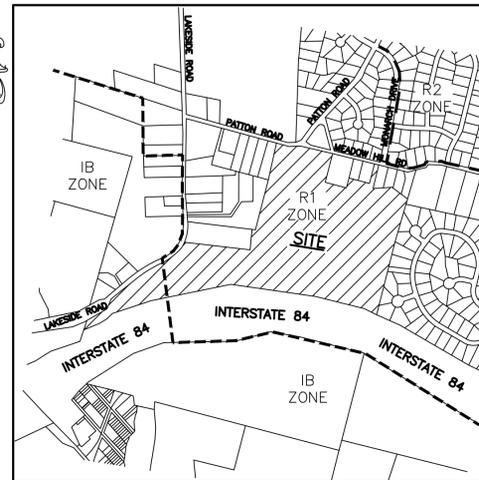
**McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.**

A handwritten signature in cursive script, appearing to read "Patrick J. Hines", is written above a horizontal line.

Patrick J. Hines
Principal

PJH/kbw

5 MW AC SOLAR FARM SITE PLAN FOR DARRIGO 84 LAKESIDE AVENUE TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.



LOCATION MAP
SCALE: 1"=1000'
SOURCE: OCWAGIS TAX MAPS

SHEET #	SHEET TITLE	ORIGINAL DATE/ LAST REVISED DATE
01 OF 09	TITLE SHEET	10-30-20/3-16-21
02 OF 09	EXISTING CONDITIONS PLAN	11-12-19/3-16-21
03 OF 09	SITE PLAN	11-12-19/3-16-21
04 OF 09	GRADING AND UTILITY PLAN	11-12-19/3-16-21
05 OF 09	EROSION CONTROL PLAN	11-12-19/3-16-21
06 OF 09	ACCESS ROAD PROFILES 01	11-12-19/3-16-21
07 OF 09	ACCESS ROAD PROFILES 02	11-12-19/3-16-21
08 OF 09	CONSTRUCTION DETAILS	12-16-19/3-16-21
09 OF 09	TURNING DIAGRAMS	11-12-19/3-16-21
L110	LANDSCAPE PLAN	11-5-20/3-16-21
L111	LANDSCAPE PLAN ENTRANCES	11-16-20/3-16-21

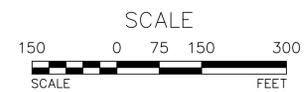


TITLE SHEET
SCALE: 1"=150'

RECORD OWNER & APPLICANT
OWNER:
FRANK DARRIGO REVOCABLE TRUST
84 LAKESIDE RD
NEWBURGH NY 12550

APPLICANT:
JEFFREY LEASE
597 GRAND AVENUE
NEWBURGH, NY 12550

- REFERENCES:**
- TOWN OF NEWBURGH TAX MAP SBL 86-1-96.
 - BOUNDARY AND PLANIMETRIC INFORMATION ON THIS PLAN HAS BEEN TAKEN FROM A SURVEY ENTITLED "SURVEY PREPARED FOR F&T DARRIGO" DATED MAY 13, 2012 AS PREPARED BY DJ SCALZO ASSOCIATES ENGINEERING AND PLANNING, 57 FIFTH AVENUE, NEWBURGH, NEW YORK 12550.
 - SOLAR ARRAY DESIGN INFORMATION ON THIS PLAN HAS BEEN TAKEN FROM A PLAN ENTITLED "MOUNTAIN GARDENS, LLC" DATED JUNE 5, 2018 AS PREPARED BY ENTER SOLAR, 805 THIRD AVENUE, 20TH FLOOR, NEW YORK, NY 10022.
 - TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM AN AERIAL SURVEY PREPARED BY GEODETIC ASSOCIATES IN 2005.
 - TOPOGRAPHIC INFORMATION IN THE REMEDIATION AREA HAS BEEN TAKEN FROM A SURVEY PREPARED BY CHRISTOPHER M. COPPENS OF COPPENS LAND SURVEYING.



#REV.	BY	DATE	DESCRIPTION
#3	MM	3/16/21	PER 3/16/21 SITE VISIT
#2	MM	2/23/21	PER WS COMMENTS
#1	MM	1/11/21	PER PB COMMENTS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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5 MW AC SOLAR FARM SITE PLAN FOR
DARRIGO
84 LAKESIDE AVENUE
TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.

TITLE SHEET

JOB#: 18-014
SCALE: AS NOTED
ORIGINAL DATE: 10-30-20
DRAWN: MM
CHECKED: MM
SHEET NO. 01 of 09

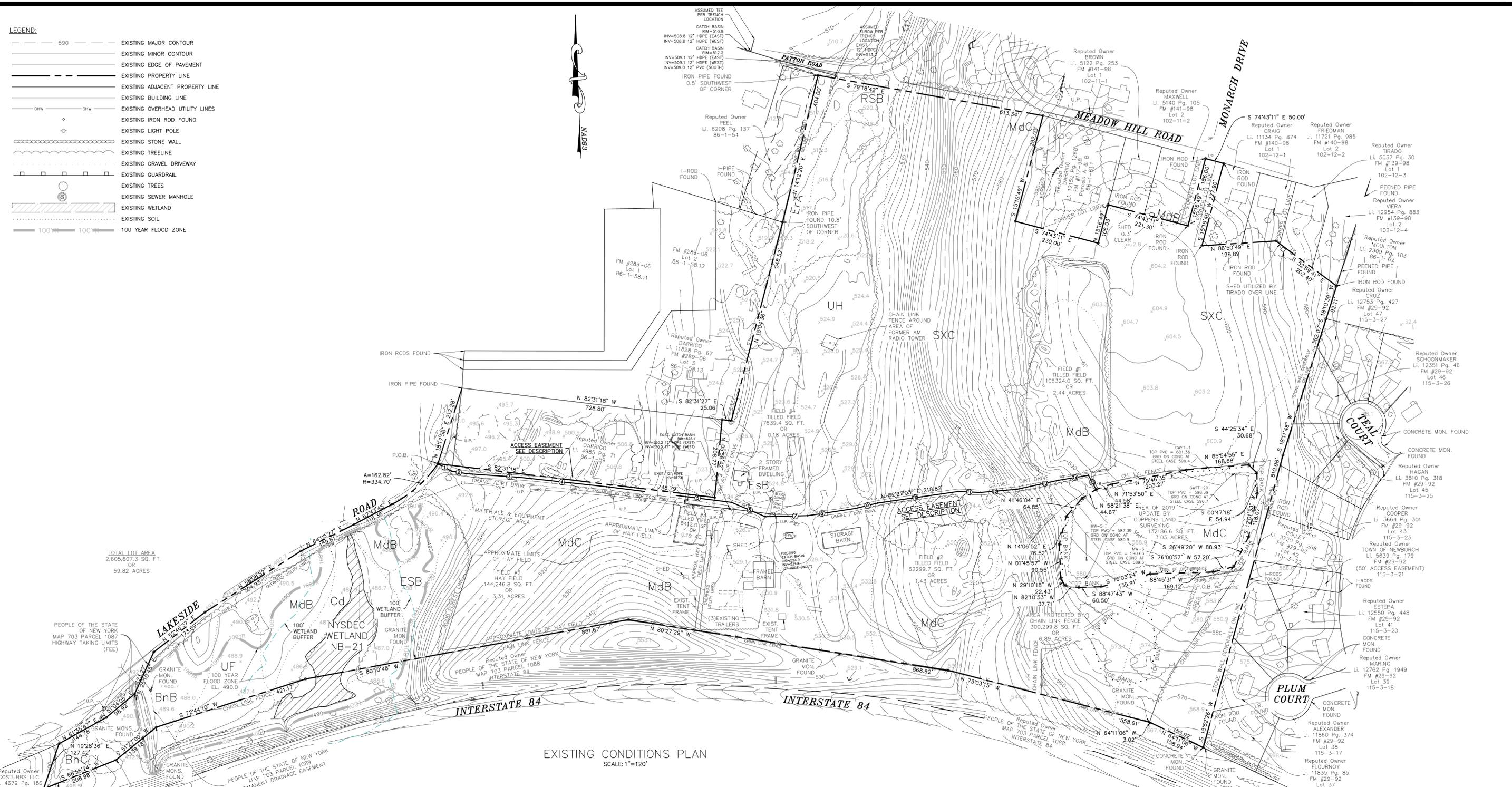
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LEGEND:

---	590	EXISTING MAJOR CONTOUR
---		EXISTING MINOR CONTOUR
---		EXISTING EDGE OF PAVEMENT
---		EXISTING PROPERTY LINE
---		EXISTING ADJACENT PROPERTY LINE
---		EXISTING BUILDING LINE
---		EXISTING OVERHEAD UTILITY LINES
---		EXISTING IRON ROD FOUND
---		EXISTING LIGHT POLE
---		EXISTING STONE WALL
---		EXISTING TREELINE
---		EXISTING GRAVEL DRIVEWAY
---		EXISTING GUARDRAIL
---		EXISTING TREES
---		EXISTING SEWER MANHOLE
---		EXISTING WETLAND
---		EXISTING SOIL
---	100'	100' YEAR FLOOD ZONE



EXISTING CONDITIONS PLAN
SCALE: 1"=120'

RESTRICTED AREA DESCRIPTION

ALL THAT CERTAIN PARCEL OF LAND SITUATE, LYING, AND BEING IN THE TOWN OF NEWBURGH, COUNTY OF ORANGE, STATE OF NEW YORK, BEING THE RESTRICTED AREA AS INDICATED ON A MAP TITLED "SURVEY PREPARED FOR F & T DARRIGO" AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE TERMINUS OF A 20 FOOT WIDE ACCESS EASEMENT LEADING FROM LAKESIDE ROAD TO THE RESTRICTED AREA AS DEPICTED ON THIS MAP; SAID ACCESS EASEMENTS LAST COURSE AND DISTANCE OF SOUTH 27 DEGREES 36 MINUTES 09 SECONDS EAST 43.05 FEET AND PASSING THROUGH THE CHAIN LINK FENCE GATE TO A POINT IN THE RESTRICTED AREA; THENCE THROUGH LANDS REPUTEDLY OF DARRIGO THE FOLLOWING COURSES AND DISTANCES:

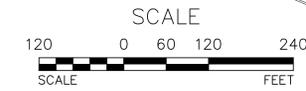
- NORTH 71 DEGREES 53 MINUTES 50 SECONDS EAST 44.58 FEET TO A POINT;
- NORTH 79 DEGREES 46 MINUTES 35 SECONDS EAST 203.27 FEET TO A POINT;
- NORTH 85 DEGREES 54 MINUTES 55 SECONDS EAST 168.88 FEET TO A POINT;
- SOUTH 44 DEGREES 25 MINUTES 34 SECONDS EAST 30.68 FEET TO A POINT;
- SOUTH 00 DEGREES 47 MINUTES 18 SECONDS EAST 54.94 FEET TO A POINT;
- SOUTH 12 DEGREES 01 MINUTES 33 SECONDS WEST 118.07 FEET TO A POINT;
- SOUTH 28 DEGREES 49 MINUTES 20 SECONDS WEST 88.93 FEET TO A POINT;
- SOUTH 78 DEGREES 00 MINUTES 57 SECONDS WEST 57.20 FEET TO A POINT;
- SOUTH 88 DEGREES 45 MINUTES 31 SECONDS WEST 169.12 FEET TO A POINT;
- SOUTH 76 DEGREES 03 MINUTES 24 SECONDS WEST 135.91 FEET TO A POINT;
- SOUTH 88 DEGREES 47 MINUTES 43 SECONDS WEST 60.50 FEET TO A POINT;
- NORTH 82 DEGREES 10 MINUTES 53 SECONDS WEST 37.71 FEET TO A POINT;
- NORTH 29 DEGREES 10 MINUTES 18 SECONDS WEST 22.43 FEET TO A POINT;
- NORTH 01 DEGREES 45 MINUTES 57 SECONDS WEST 90.55 FEET TO A POINT;
- NORTH 14 DEGREES 06 MINUTES 52 SECONDS EAST 78.62 FEET TO A POINT;
- NORTH 41 DEGREES 46 MINUTES 04 SECONDS EAST 64.85 FEET TO A POINT;
- NORTH 58 DEGREES 21 MINUTES 38 SECONDS EAST 44.67 FEET TO THE POINT OR PLACE OF BEGINNING AND CONTAINING 3.03 ACRES.

ACCESS EASEMENT DESCRIPTION

ALL THAT CERTAIN PARCEL OF LAND SITUATE, LYING, AND BEING IN THE TOWN OF NEWBURGH, COUNTY OF ORANGE, STATE OF NEW YORK, AS INTENDED FOR RIGHT OF ACCESS FOR INGRESS AND EGRESS TO THE RESTRICTED SITE ON LANDS REPUTEDLY OF F & T DARRIGO, SAID PARCEL BEING A 20 FEET WIDE ACCESS AND THE CENTERLINE THEREOF BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN LAKESIDE ROAD, SAID POINT BEING SOUTH 18 DEGREES 17 MINUTES 58 SECONDS WEST 212.28 FEET FROM AN IRON PIPE FOUND AT THE SOUTHWESTERLY CORNER OF LANDS REPUTEDLY OF DARRIGO AS DESCRIBED ON PAGE 67 OF LIBER OF DEEDS 11928; THENCE FROM SAID POINT, AND ALONG THE CENTER OF A DIRT/GRAVEL DRIVEWAY THE FOLLOWING COURSES AND DISTANCES:

- 1. SOUTH 60 DEGREES 42 MINUTES 37 SECONDS EAST 40.88 FEET TO A POINT;
- 2. SOUTH 79 DEGREES 45 MINUTES 30 SECONDS EAST 41.68 FEET TO A POINT;
- 3. SOUTH 85 DEGREES 31 MINUTES 15 SECONDS EAST 140.51 FEET TO A POINT;
- 4. SOUTH 83 DEGREES 19 MINUTES 36 SECONDS EAST 237.20 FEET TO A POINT;
- 5. SOUTH 82 DEGREES 19 MINUTES 52 SECONDS EAST 338.09 FEET TO A POINT;
- 6. SOUTH 66 DEGREES 28 MINUTES 09 SECONDS EAST 98.17 FEET TO A POINT;
- 7. NORTH 89 DEGREES 12 MINUTES 21 SECONDS EAST 114.18 FEET TO A POINT;
- 8. NORTH 81 DEGREES 58 MINUTES 49 SECONDS EAST 129.97 FEET TO A POINT;
- 9. NORTH 76 DEGREES 50 MINUTES 57 SECONDS EAST 61.07 FEET TO A POINT;
- 10. NORTH 82 DEGREES 27 MINUTES 03 SECONDS EAST 218.82 FEET TO A POINT;
- 11. SOUTH 86 DEGREES 46 MINUTES 11 SECONDS EAST 58.51 FEET TO A POINT;
- 12. NORTH 85 DEGREES 34 MINUTES 14 SECONDS EAST 99.38 FEET TO A POINT;
- 13. NORTH 78 DEGREES 23 MINUTES 27 SECONDS EAST 112.80 FEET TO A POINT;
- 14. NORTH 81 DEGREES 04 MINUTES 17 SECONDS EAST 82.60 FEET TO A POINT;
- 15. SOUTH 27 DEGREES 36 MINUTES 09 SECONDS EAST 43.05 FEET AND PASSING THROUGH THE CHAIN LINK FENCE GATE TO A POINT IN THE RESTRICTED AREA.



#REV.	BY	DATE	DESCRIPTION
#4	MM	3/16/21	PER 3/16/21 SITE VISIT
#3	MM	2/23/21	PER WS COMMENTS
#2	MM	1/11/21	PER PB COMMENTS
#1	MM	10/30/20	FINAL PLAN PREPARATION

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5 MW AC SOLAR FARM SITE PLAN FOR DARRIGO
84 LAKESIDE AVENUE
TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.

EXISTING CONDITIONS PLAN

	<p>JOB#: 18-014 SCALE: AS NOTED ORIGINAL DATE: 11-12-19 DRAWN: MM CHECKED: MM SHEET NO. 02 of 09</p>
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MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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NAD83

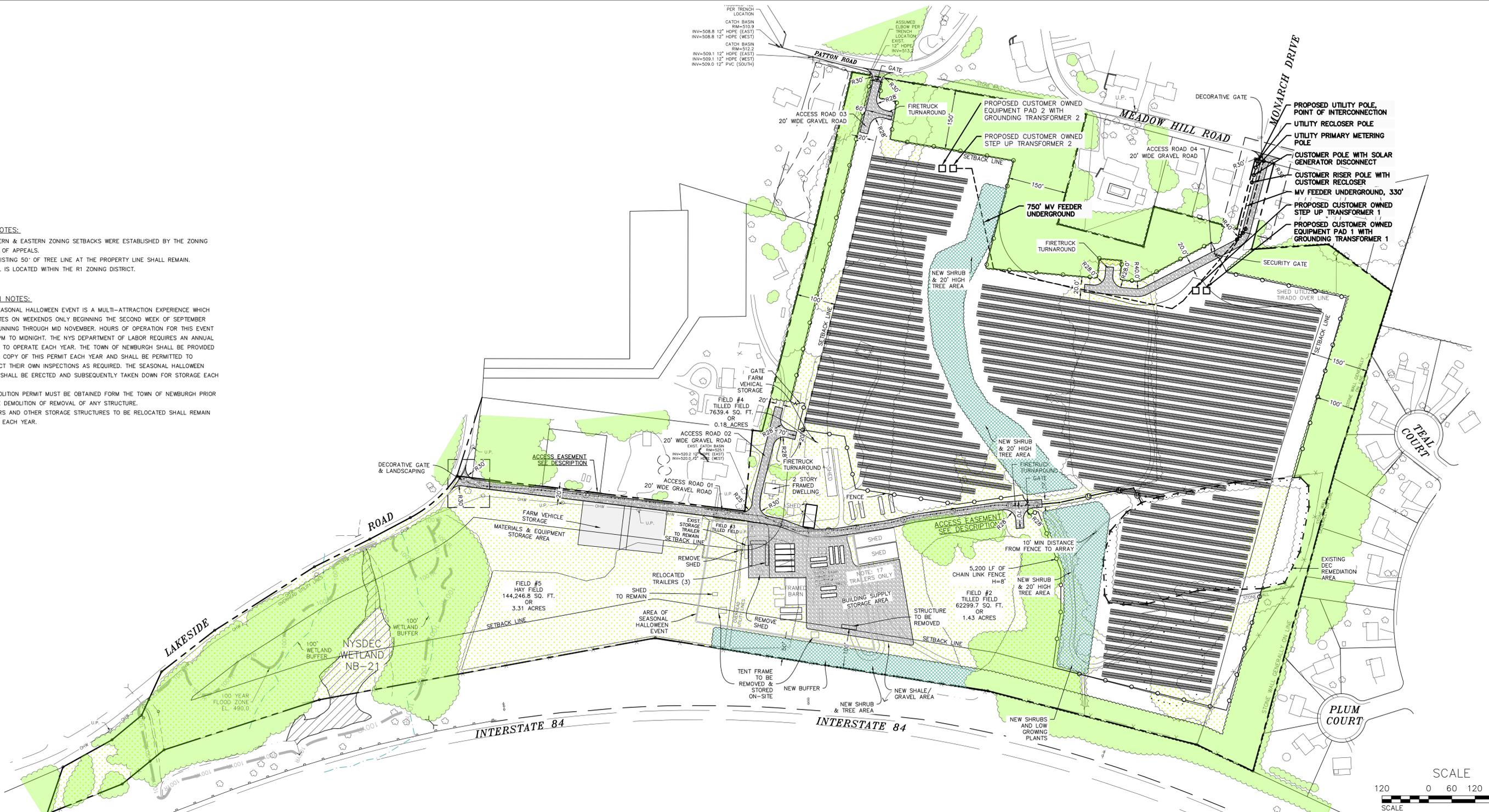
ZONING NOTES:

1. NORTHERN & EASTERN ZONING SETBACKS WERE ESTABLISHED BY THE ZONING BOARD OF APPEALS.
2. THE EXISTING 50' OF TREE LINE AT THE PROPERTY LINE SHALL REMAIN.
3. PARCEL IS LOCATED WITHIN THE R1 ZONING DISTRICT.

SITE PLAN NOTES:

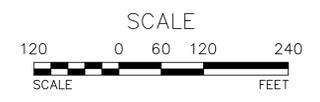
1. THE SEASONAL HALLOWEEN EVENT IS A MULTI-ATTRACTION EXPERIENCE WHICH OPERATES ON WEEKENDS ONLY BEGINNING THE SECOND WEEK OF SEPTEMBER AND RUNNING THROUGH MID NOVEMBER. HOURS OF OPERATION FOR THIS EVENT ARE 7PM TO MIDNIGHT. THE NYS DEPARTMENT OF LABOR REQUIRES AN ANNUAL PERMIT TO OPERATE EACH YEAR. THE TOWN OF NEWBURGH SHALL BE PROVIDED WITH A COPY OF THIS PERMIT EACH YEAR AND SHALL BE PERMITTED TO CONDUCT THEIR OWN INSPECTIONS AS REQUIRED. THE SEASONAL HALLOWEEN EVENT SHALL BE ERRECTED AND SUBSEQUENTLY TAKEN DOWN FOR STORAGE EACH YEAR.
2. A DEMOLITION PERMIT MUST BE OBTAINED FROM THE TOWN OF NEWBURGH PRIOR TO THE DEMOLITION OF REMOVAL OF ANY STRUCTURE.
3. TRAILERS AND OTHER STORAGE STRUCTURES TO BE RELOCATED SHALL REMAIN IN USE EACH YEAR.

PER TRENCH LOCATION
 CATCH BASIN RIM=510.0
 INV=508.8 12" HDPE (EAST)
 INV=508.8 12" HDPE (WEST)
 CATCH BASIN RIM=512.2
 INV=509.1 12" HDPE (EAST)
 INV=509.1 12" HDPE (WEST)
 INV=509.0 12" PVC (SOUTH)



PROPOSED UTILITY POLE, POINT OF INTERCONNECTION
 UTILITY RECLOSER POLE
 UTILITY PRIMARY METERING POLE
 CUSTOMER POLE WITH SOLAR GENERATOR DISCONNECT
 CUSTOMER RISER POLE WITH CUSTOMER RECLOSER
 MV FEEDER UNDERGROUND, 330'
 PROPOSED CUSTOMER OWNED STEP UP TRANSFORMER 1
 PROPOSED CUSTOMER OWNED EQUIPMENT PAD 1 WITH GROUNDING TRANSFORMER 1

SITE PLAN
 SCALE: 1"=120'



OWNER'S CONSENT NOTE:
 THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS PLAN, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF ORANGE, IF SO REQUIRED.

SIGNATURE - OWNER(S) TAX LOT 86-1-96

- NEW SHRUB & TREE AREA
- EXISTING VEGETATION TO REMAIN
- EXISTING GRASS
- PROPOSED SOLAR
- PROPOSED GRAVEL ACCESS ROAD
- PROPOSED ZONING SETBACKS
- PROPOSED FENCE

- LEGEND:**
- 590 --- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING EDGE OF PAVEMENT
 - OR --- EXISTING PROPERTY LINE
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING BUILDING LINE
 - EXISTING IRON ROD FOUND
 - EXISTING LIGHT POLE
 - EXISTING STONE WALL
 - EXISTING TREELINE
 - EXISTING GRAVEL DRIVEWAY
 - EXISTING GUARDRAIL
 - EXISTING TREES
 - EXISTING SEWER MANHOLE
 - EXISTING WETLAND

#REV.	BY	DATE	DESCRIPTION
#7	MM	3/16/21	PER 3/16/21 SITE VISIT
#6	MM	2/23/21	PER WS COMMENTS
#5	MM	1/11/21	PER PB COMMENTS
#4	MM	10/30/20	FINAL PLAN PREPARATION
#3	MM	10/23/20	REVISIONS PER ZBA MTG.
#2	MM	2/11/20	REVISIONS PER 2/4/20 PB MTG.
#1	MM	1/31/20	UTILITY POLE RELOCATION FOR INTERCONNECTION POINT

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5 MW AC SOLAR FARM SITE PLAN FOR DARRIGO
 84 LAKESIDE AVENUE
 TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.

SITE PLAN

JOB#: 18-014
 SCALE: AS NOTED
 ORIGINAL DATE: 11-12-19
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 03 of 09

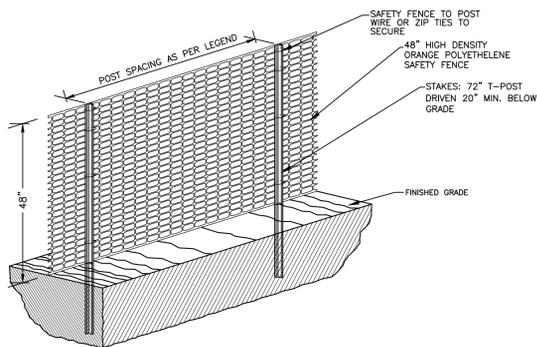
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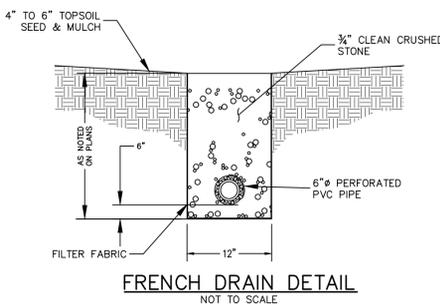


48" SAFETY FENCE, 72" T-POSTS	
SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C.
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C.
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

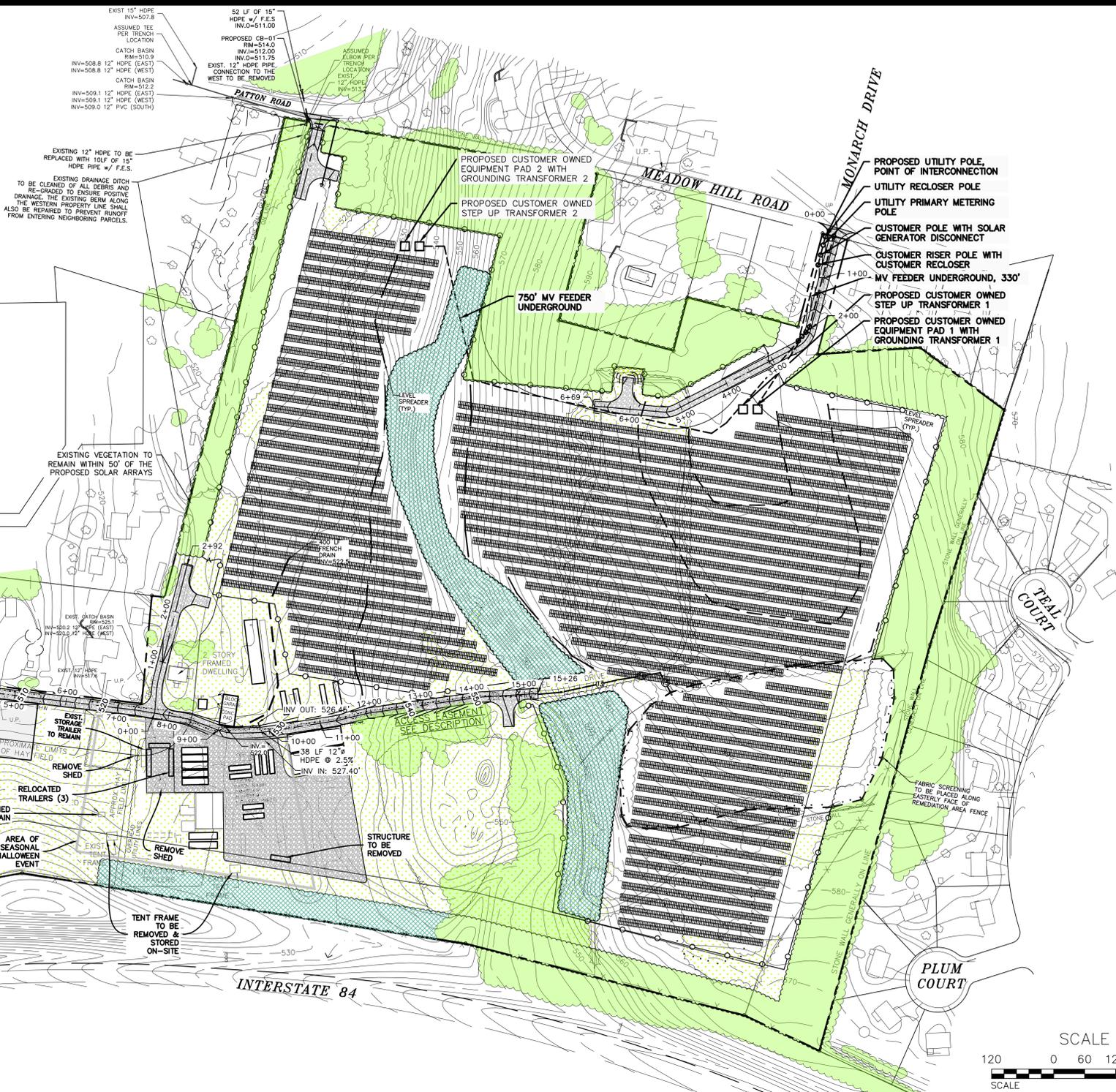


SENSITIVE AREA/TREE PROTECTION
NOT TO SCALE

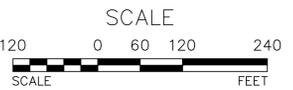
- NOTES:**
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
 2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
 3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
 4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
 5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.
 6. FENCE SHALL BE MANUFACTURED BY EROSION RUNNER OR EQUAL.



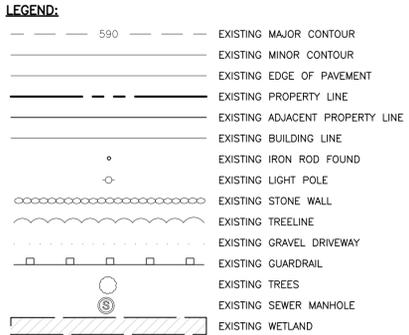
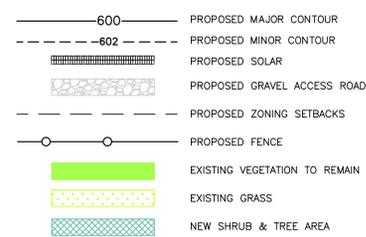
FRENCH DRAIN DETAIL
NOT TO SCALE



GRADING AND UTILITY PLAN
SCALE: 1"=120'



- NOTES:**
1. APPROXIMATELY 22 ACRES OF TREE CLEARING IS PROPOSED.
 2. LIMITS OF DISTURBANCE AREA = 33.35 ACRES
 3. NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 - OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT.
 4. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE LIMITS OF CLEARING WILL BE CLEARLY DEMARCATED ON THE SITE WITH ORANGE CONSTRUCTION FENCING.



#REV.	BY	DATE	DESCRIPTION
#6	MM	3/16/21	PER 3/16/21 SITE VISIT
#5	MM	2/23/21	PER WS COMMENTS
#4	MM	1/11/21	PER PB COMMENTS
#3	MM	10/30/20	FINAL PLAN PREPARATION
#2	MM	1/24/20	REVISION PER MHE 1/2/20 COMMENT LETTER
#1	MM	12/16/19	ADDITION OF STORMWATER FACILITIES

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GRADING AND UTILITY PLAN

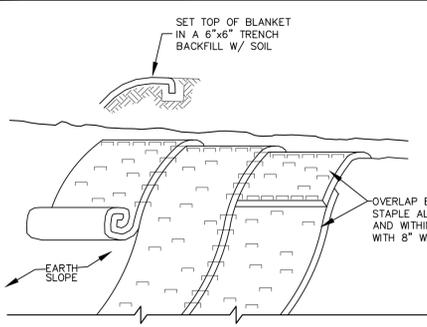
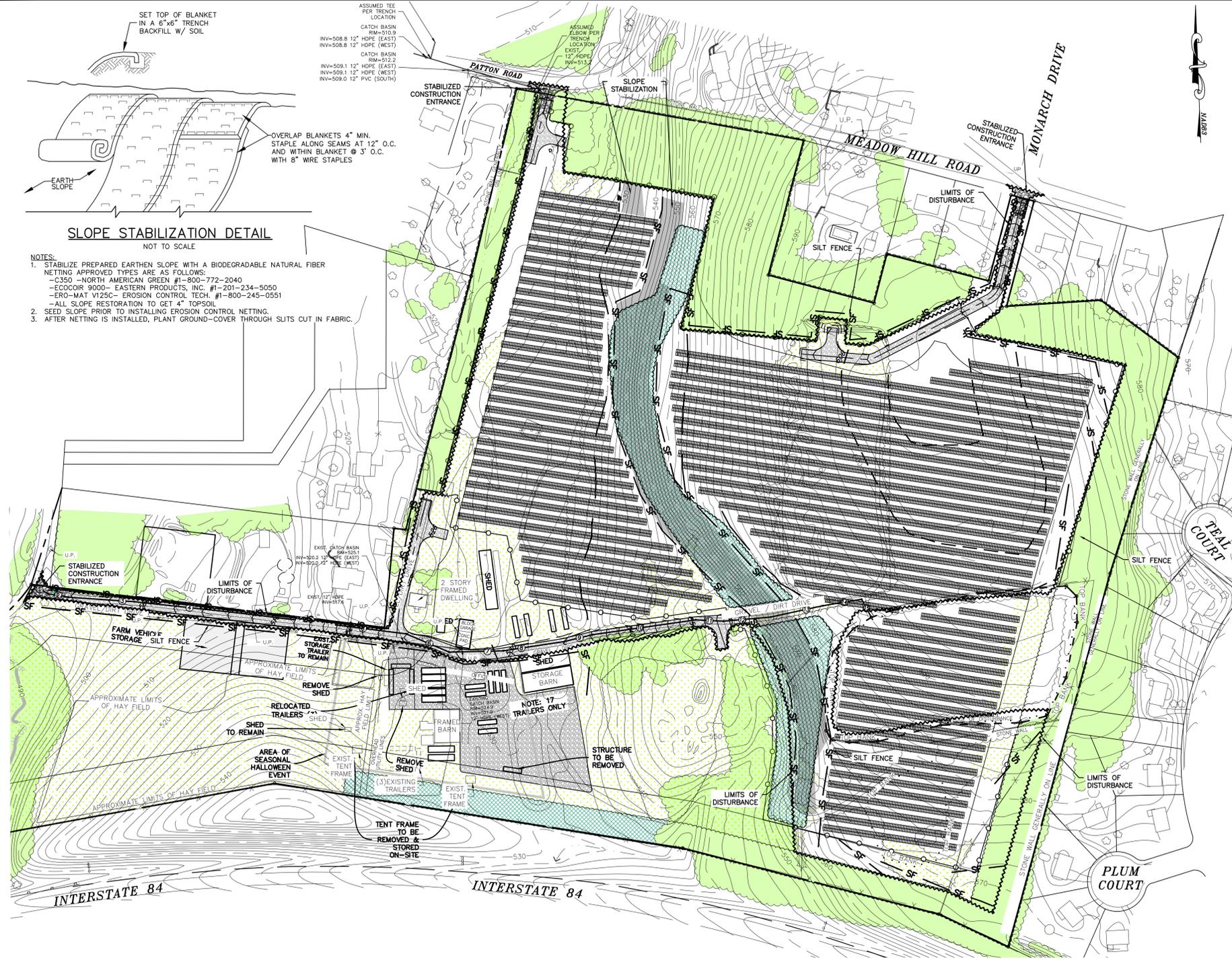
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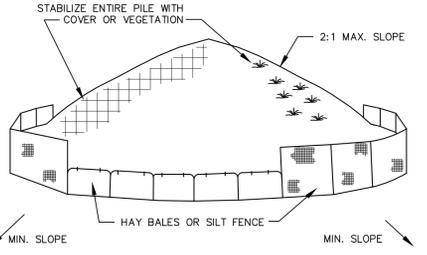
- NOTES:**
- STABILIZE PREPARED EARTHEN SLOPE WITH A BIODEGRADABLE NATURAL FIBER NETTING APPROVED TYPES ARE AS FOLLOWS:
 - C350 - NORTH AMERICAN GREEN #1-800-772-2040
 - ECCOR 9000 - EASTERN PRODUCTS, INC. #1-201-234-5050
 - ERC-MAT V125C - EROSION CONTROL TECH. #1-800-245-0551
 - SEED SLOPE PRIOR TO INSTALLING EROSION CONTROL NETTING.
 - AFTER NETTING IS INSTALLED, PLANT GROUND-COVER THROUGH SLOTS CUT IN FABRIC.

E&S MAINTENANCE NOTES:

- SILT FENCE: MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
 - STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL AGGREGATE. ALL SEDIMENT SPILLED, DROPPED OR WASHED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERCOURSES.
 - CONSTRUCTION ROAD STABILIZATION: INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP-DRESS WITH NEW GRAVEL AS NEEDED. CHECK DITCHES FOR EROSION AND SEDIMENTATION AFTER RAINFALL EVENTS. MAINTAIN VEGETATION IN A HEALTHY, WOODRICH CONDITION. AREAS PRODUCING SEDIMENT SHOULD BE TREATED IMMEDIATELY.
- SEDIMENT & EROSION CONTROL NOTES & CONSTRUCTION SEQUENCING**
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES FOR ALL ROAD AND DRIVE ENTRANCES. STREETS SHALL BE BROOM SWEEP DAILY.
 - INSTALL SEDIMENT BARRIERS/SWALES/DITCHES/DIKES AT DOWN SLOPE AREAS FROM ALL PROPOSED GRADING OPERATIONS, AND INSTALL OTHER SEDIMENTATION AND EROSION CONTROL STRUCTURES OR MEASURES AS SHOWN ON THE DRAWINGS.
 - LAND DISTURBANCE SHALL BE LIMITED TO ONLY THAT AREA NECESSARY FOR DEVELOPMENT. A WAIVER HAS BEEN RECEIVED FROM THE TOWN OF NEWBURGH TO DISTURB MORE THAN FIVE (5) ACRES OF UNPROTECTED SOIL AT ONE TIME.
 - CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, THEN STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED. SEED STOCKPILED TOPSOIL WITH TEMPORARY RYEGRASS COVER AS SPECIFIED BELOW (SEE NOTE 8), AND ERECT A SILT FENCE AROUND THE STOCKPILE.
 - PROTECT ALL TREES WHICH ARE TO REMAIN AND WHICH ARE IN OR NEAR CONSTRUCTION AREAS. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE.
 - INSTALL SEDIMENT BARRIERS AROUND ALL STORM DRAIN INLETS, OR MODIFY SEDIMENT CONTROL MEASURES INSTALLED IN #2 ABOVE AND MAINTAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION AND ALL PAVEMENTS ARE PAVED WITH A BASE COURSE.
 - TEMPORARILY SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OF 15 DAYS OR MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 30 DAYS IN ACCORDANCE WITH SPECIFICATION FOR VEGETATIVE ESTABLISHMENT.
 - IF CONSTRUCTION IS SUSPENDED OR COMPLETED, ALL DISTURBED AREAS SHALL BE SEED AND MULCH IMMEDIATELY. ALL SLOPES STEEPER THAN ONE ON THREE (V/H) AND PERIMETER TRENCHES AND TRAP EMBANKMENTS SHALL, ON COMPLETION, BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING AND SLOPE STABILIZATION MATTING.
 - AFTER COMPLETION OF SITE CLEARING, FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED WITH PERMANENT LAWN MIX AS DISCUSSED ON THE SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT ON THIS SHEET.
 - ONCE PERMANENT VEGETATION HAS BEEN ESTABLISHED, INSTALL LEVEL SPREADERS AND FLOW DIFFUSERS AS SHOWN ON THE PLANS.
 - INSTALLATION OF GROUND MOUNTED SOLAR ARRAYS CAN COMMENCE AFTER PERMANENT VEGETATION IS ESTABLISHED AND CONSTRUCTION OF LEVEL SPREADERS AND FLOW DIFFUSERS IS COMPLETE. SILT FENCE AND ADDITIONAL PERMANENT SEEDING WILL BE REQUIRED DURING INSTALLATION OF SOLAR ARRAYS.
 - DURING THE PROGRESS OF CONSTRUCTION, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS NECESSARY TO PREVENT THEIR BEING CLOGGED UP WITH SEDIMENT.
 - AFTER PAVEMENTS ARE INSTALLED AND PERMANENT VEGETATIVE COVER AND PLANTINGS ARE ESTABLISHED, REMOVE SEDIMENT BARRIERS AND SEED THOSE DISTURBED AREAS.
 - MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
 - STRUCTURAL MEASURES MUST BE MAINTAINED TO BE EFFECTIVE. IN GENERAL, THESE MEASURES MUST BE PERIODICALLY INSPECTED TO INSURE STRUCTURAL INTEGRITY, TO DETECT VANDALISM DAMAGE, AND FOR CLEANING AND REPAIR WHENEVER NECESSARY.
 - DURING CONSTRUCTION, ALL STRUCTURES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAIN. REMOVE ACCUMULATED SEDIMENT AND STOCKPILE AND STABILIZE IN AN AREA NOT SUBJECT TO FURTHER EROSION.
 - AFTER CONSTRUCTION IS COMPLETED, PERMANENT SEDIMENT OR EROSION CONTROL STRUCTURES SHOULD BE INSPECTED AT LEAST SEMI-ANNUALLY AND AFTER EVERY RAIN.

TEMPORARY SEEDING:

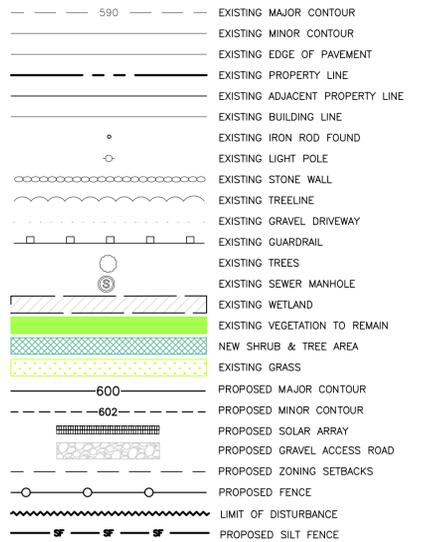
- MULCHING AS REQUIRED ON SITES DIFFICULT TO VEGETATE (SANDS, SLOPES, OR HYDROSEEDINGS AND OFF-SEASON OPERATIONS).
- MULCH MATERIALS SHALL BE UN-ROTTED SALT HAY, HAY OR SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE, OR 70 TO 90 POUNDS PER 1000 SQUARE FOOT. MULCH BLOWERS SHOULD NOT GRIND OR CHOP TILE MATERIAL.
 - SPREAD UNIFORMITY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75 PERCENT TO 95 PERCENT 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.
 - MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING ON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES:
 - PEG AND TWINE: DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - MULCH NETTING: STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE TOP SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
 - MULCH ANCHORING TOOL: (A TRACTOR DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE.) TOOL PENETRATION SHOULD BE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHALL BE DONE ON THE CONTOUR.



- INSTALLATION NOTES:**
- AREA CHosen FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
 - MAXIMUM SLOPE OF STOCKPILES SHALL BE 2:1.
 - UPON COMPLETION OF SOIL STOCKPILING EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.
 - SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILE DETAIL
NOT TO SCALE

LEGEND:

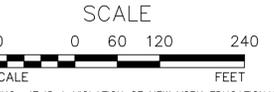


PERMANENT SEEDING:

- PERMANENT SEEDING:
 - SEED PREPARATION: AREA TO BE SEED SHALL BE LOOSE AND FRIBL TO A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS OF DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-20-20 FERTILIZER PER 1,000 SF. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER THAN 3:1.
 - PERMANENT SEEDING MIXTURE - ERNST MIX#157
 YELLOW BLOSSOM SWEET CLOVER 25%
 ALSIKE CLOVER 25%
 CRIMSON CLOVER 15%
 RED CLOVER 20%
 WHITE CLOVER 15%
 - NOTES:
 - MIX #157 TO BE APPLIED AT A RATE OF 10 LBS./ACRE
 - PRIOR TO CLOVER MIX APPLICATION, A FESCUE SEED MIXTURE SHALL BE APPLIED AND ESTABLISHED.
 - MULCHING: MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING. MULCH SHALL BE UNROTTED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMITY, MECHANICALLY, OR BY HAND TO A DEPTH OF 1-2 INCHES.
 - SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATIONS TO MINIMIZE MOVEMENT OF WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED:
 - USE A MULCH ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR FABRIC TYPE MULCH INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH, HOWEVER, IT IS LIMITED TO RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY.
 - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - LIQUID BINDERS MAY BE USED AND APPLIED HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER OF THE AREA SHOULD APPLY UNIFORM AFTER BINDER APPLICATION.
 - LIGHTWEIGHT NETTING, MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
- FILL:
 - NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL TO BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL FILL IN ROADWAYS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 2 COMPACTED TO 90% DENSITY; COMPACTION TO BE DETERMINED BY ASTM D-1557-66T (MODIFIED PROCTOR). ANY FILL WITHIN THE BUILDING AREA IS TO BE COMPACTION TO A MINIMUM QF OF 95% AS DETERMINED BY METHODS PREVIOUSLY MENTIONED. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTION AS PER THE PROJECT ENGINEER'S SPECIFICATIONS. ALL OTHER FILLS SHALL BE COMPACTION SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAGE.
- PERMANENT SOD:
 - INSTALLATION OF SOD SHOULD FOLLOW THE PERMANENT SEEDING DATES. PERMANENT SOD IS TO BE STATE APPROVED SOD; LIME AND FERTILIZER PER PERMANENT SEEDING SPECIFICATION AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY ABUTTING. JOINTS ARE TO BE STAGGERED BETWEEN ROWS, WATER AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOT CONTACT WITH THE SOIL. ALL SLOPES STEEPER THAN 3:1 AS SHOWN, ARE TO BE PERMANENTLY SODDED OR PROTECTED WITH APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO BE APPLIED ON FROZEN GROUND. SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (DRY OR WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL. IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO INSURE ESTABLISHED SOD.

THIS EROSION CONTROL PLAN SHALL BE USED FOR EROSION CONTROL METHODS AND LOCATIONS ONLY. DO NOT USE THIS PLAN FOR BUILDING, PAVED AREA, UTILITY LOCATIONS, etc.

THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR THE CONSTRUCTION AND MAINTENANCE OF THE MEASURES AS DETAILED ON THIS PLAN AND ACCOMPANYING TECHNICAL SPECIFICATIONS



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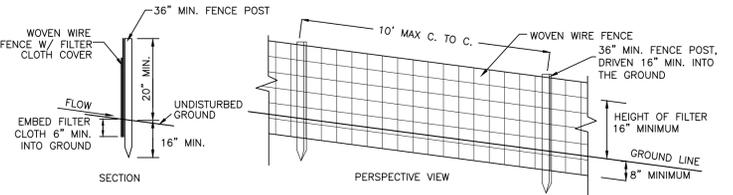
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EROSION CONTROL PLAN
SCALE: 1"=120'

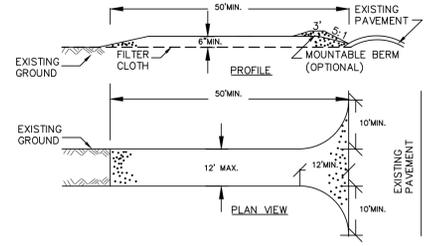
LIMITS OF DISTURBANCE AREA: 1,242,930 (28.53 ACRES)

NOTES:

- APPROXIMATELY 22 ACRES OF TREE CLEARING IS PROPOSED.
- LIMITS OF DISTURBANCE AREA = 33.35 ACRES
- NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 - OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS ON INDIANA BAT.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE LIMITS OF CLEARING WILL BE CLEARLY DEMARCATED ON THE SITE WITH ORANGE CONSTRUCTION FENCING.



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POST: STEEL EITHER '1' OR 'U' TYPE OR 2" HARDWOOD
 FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING
 FILTER CLOTH: FILER X, MIRAFI 100X, STABILINAK T140N OR APPROVED EQUAL
 PREFABRICATED UNIT: GEIOFAB, ENVROFENCE, OR APPROVED EQUAL.



STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. THE NYDEP WILL NOT PERMIT A WIDTH WIDER THAN 12' DUE TO THE EXISTING WIDTH OF THE TRAVELED WAY.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

#REV.	BY	DATE	DESCRIPTION
#5	MM	3/16/21	PER 3/16/21 SITE VISIT
#4	MM	2/23/21	PER WS COMMENTS
#3	MM	1/11/21	PER PB COMMENTS
#2	MM	10/30/20	FINAL PLAN PREPARATION
#1	MM	1/24/20	REVISION PER MHE 1/2/20 COMMENT LETTER

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

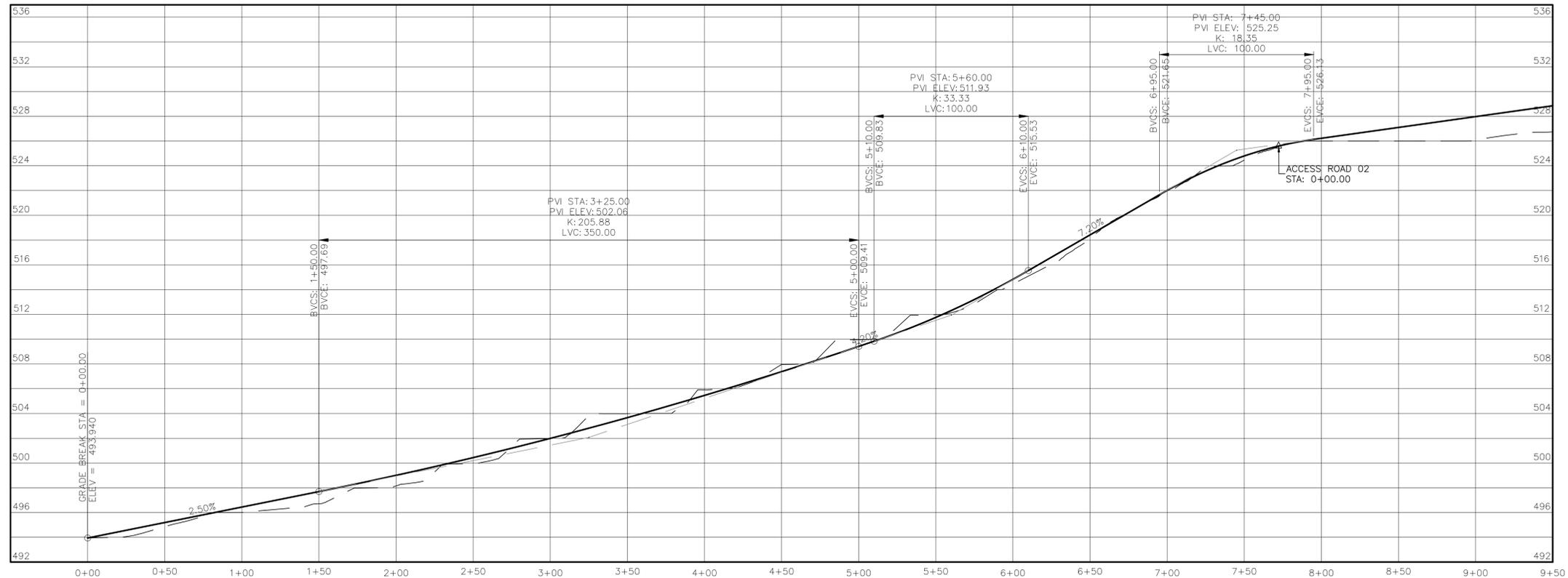
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 P.O. BOX 340 MONROE, N.Y.
 TEL: (845) 782-8114
 WWW.ARDENCONSULTING.NET

5 MW AC SOLAR FARM SITE PLAN FOR DARRIGO
 84 LAKESIDE AVENUE
 TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.

EROSION CONTROL PLAN

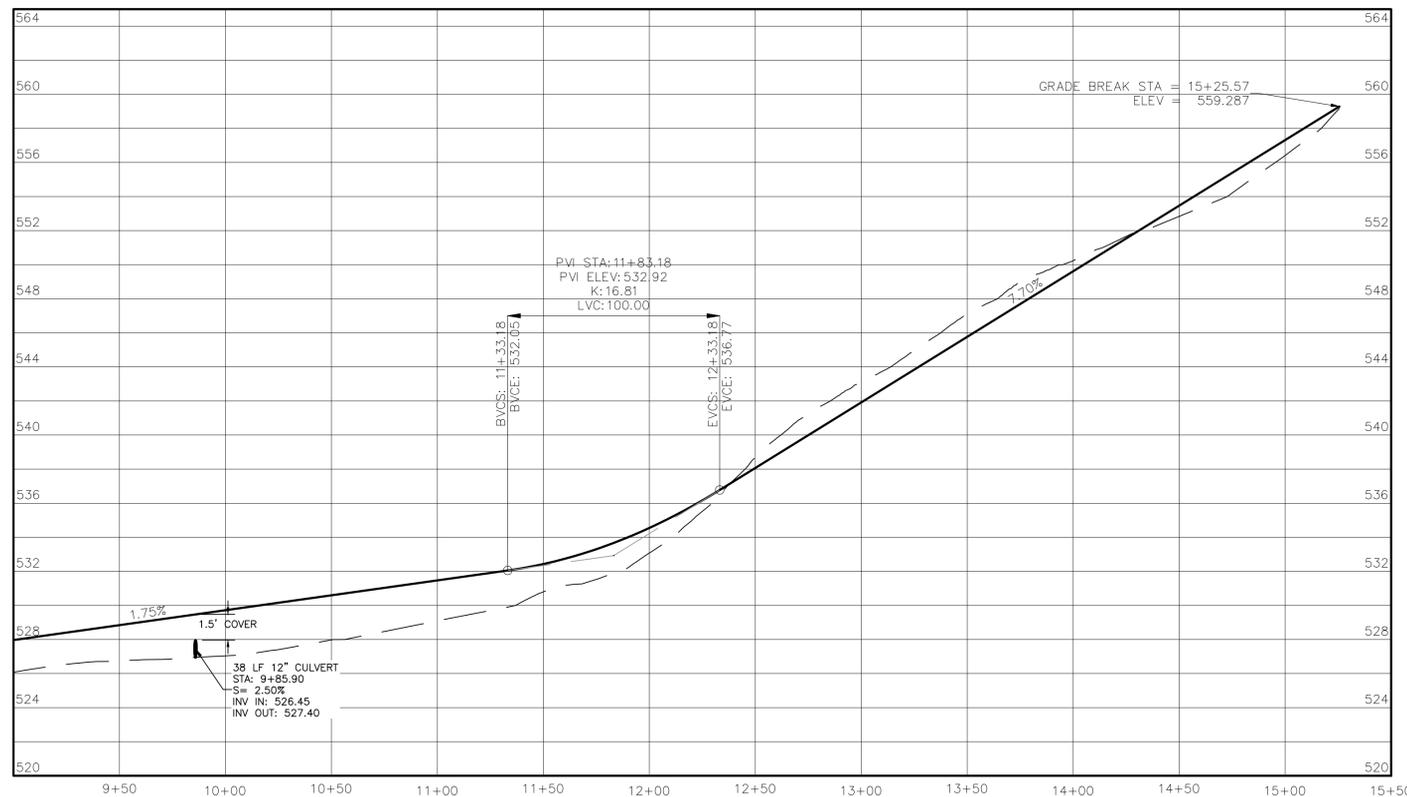
JOB#: 18-014
 SCALE: AS NOTED
 ORIGINAL DATE: 12-16-19
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 05 of 09

MICHAEL A. MORGANTE, P.E.
 LIC. NO. 78577



ACCESS ROAD 01 PROFILE
STA: 0+00 TO 9+00

HORIZONTAL: 1"=40'
VERTICAL: 1"=5'



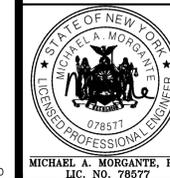
ACCESS ROAD 01 PROFILE
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HORIZONTAL: 1"=40'
VERTICAL: 1"=5'

#REV.	BY	DATE	DESCRIPTION
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#3	MM	2/23/21	PER WS COMMENTS
#2	MM	1/11/21	PER PB COMMENTS
#1	MM	10/30/20	FINAL PLAN PREPARATION

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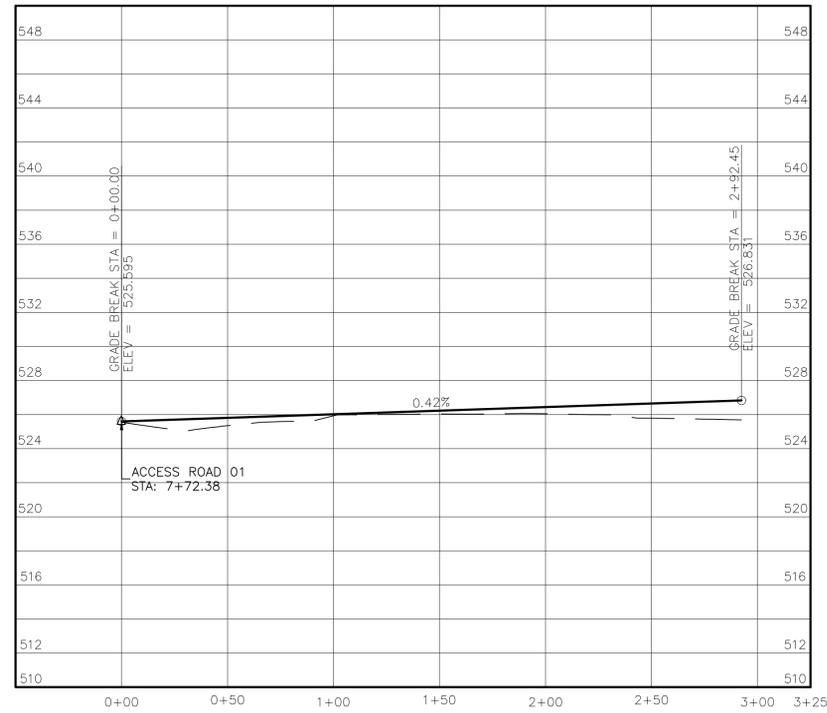
ACCESS ROAD PROFILES 01

JOB#: 18-014
SCALE: AS NOTED
ORIGINAL DATE: 11-12-19
DRAWN: MM
CHECKED: MM
SHEET NO. 06 of 09

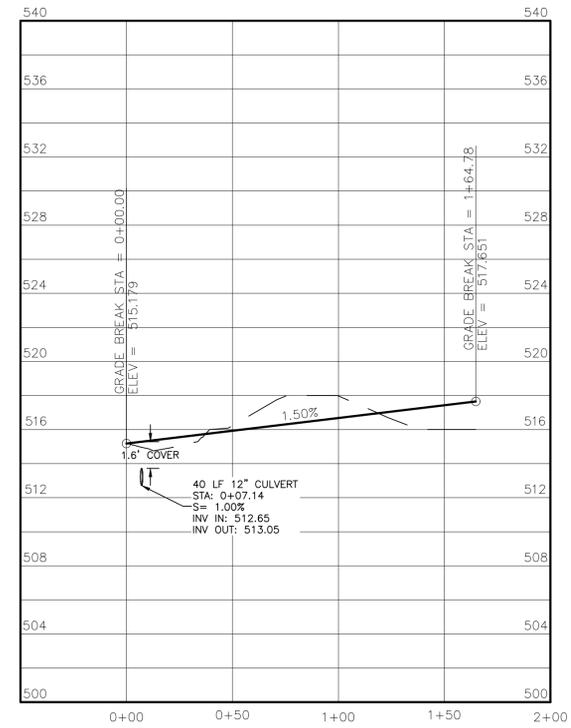
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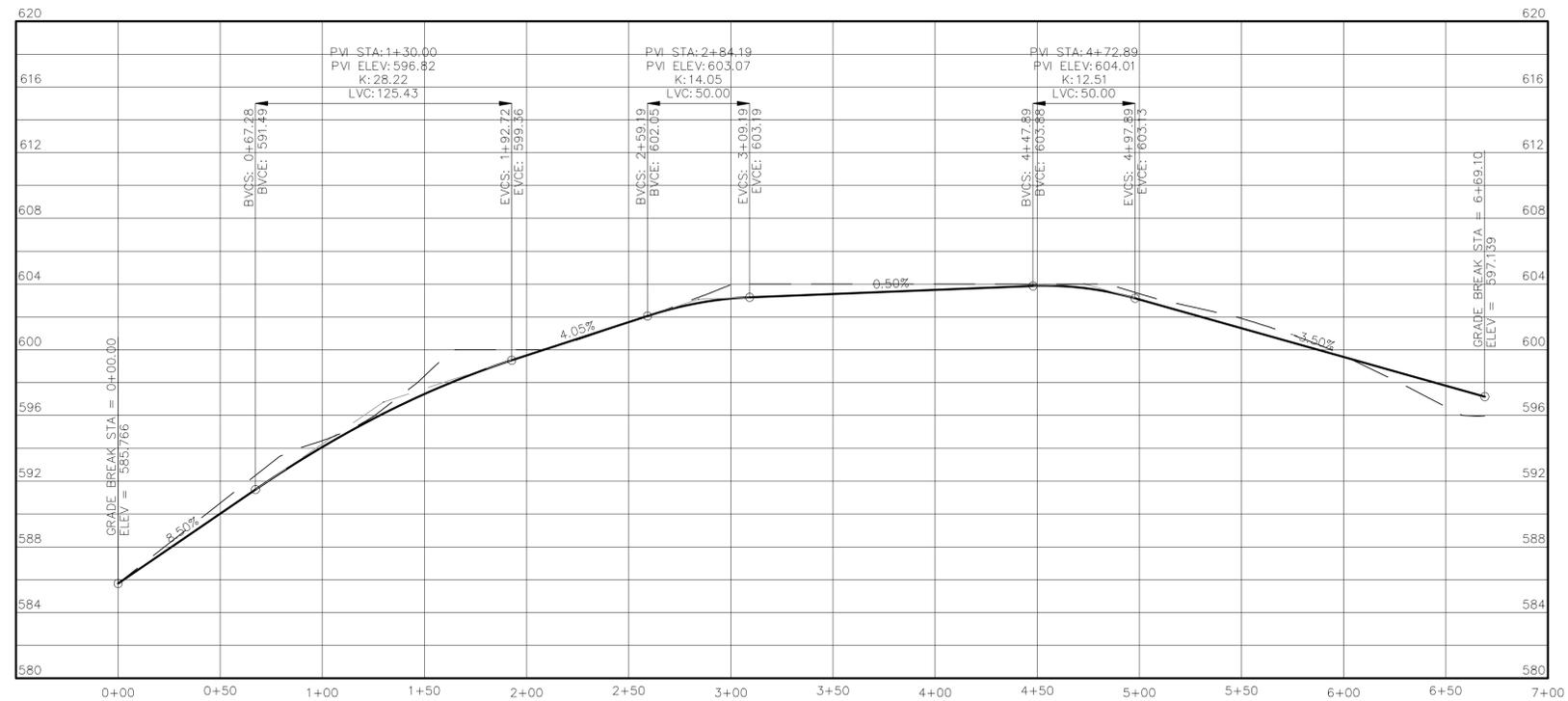




ACCESS ROAD 02 PROFILE
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'



ACCESS ROAD 03 PROFILE
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'



ACCESS ROAD 04 PROFILE
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'

#REV.	BY	DATE	DESCRIPTION
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#3	MM	2/23/21	PER WS COMMENTS
#2	MM	1/11/21	PER PB COMMENTS
#1	MM	10/30/20	FINAL PLAN PREPARATION

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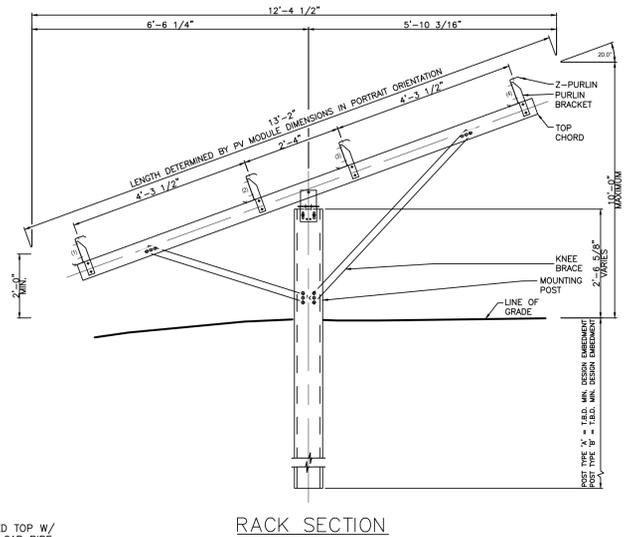
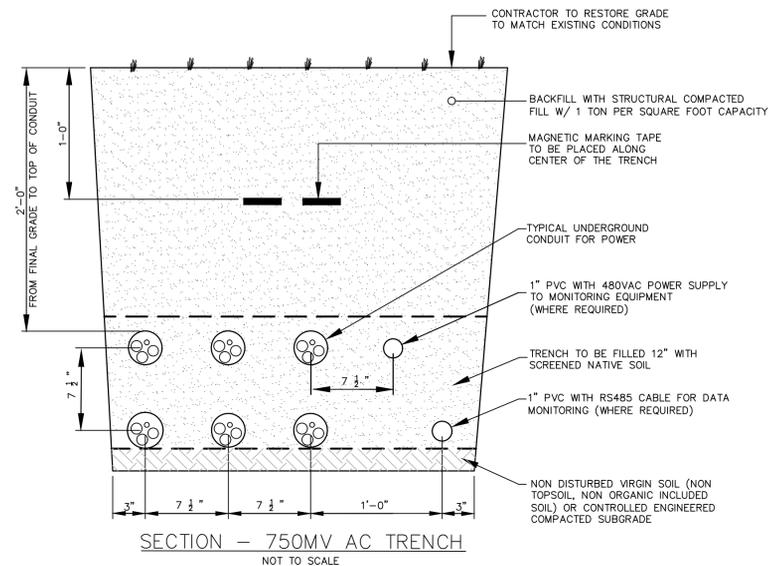
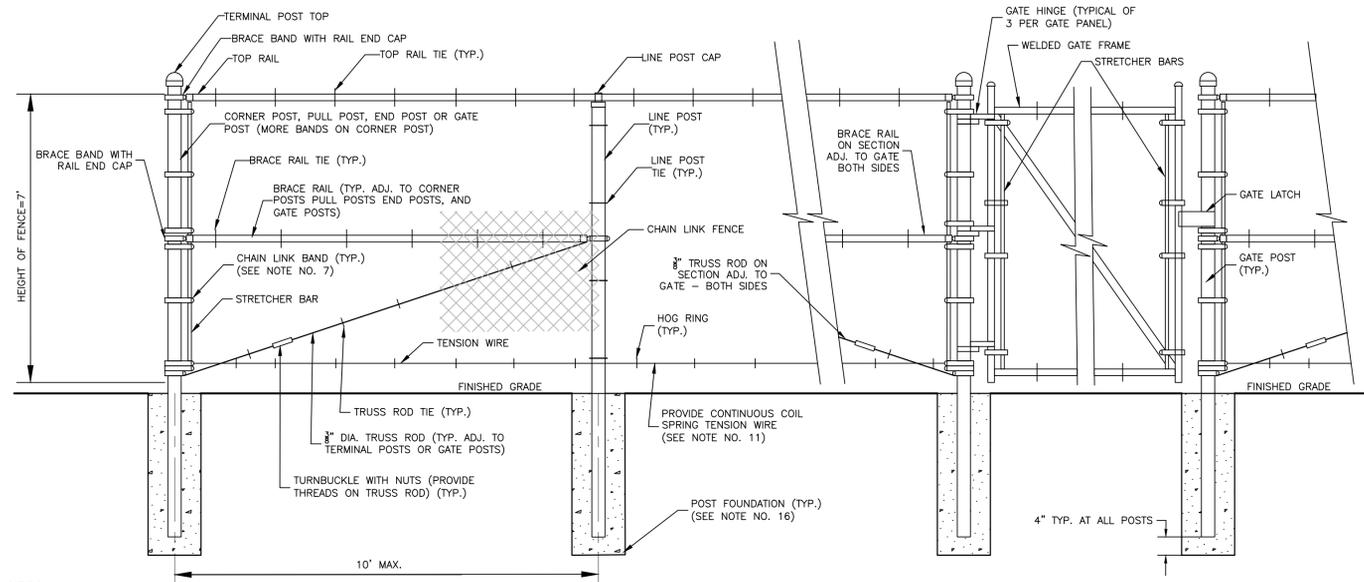
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JOB#: 18-014
 SCALE: AS NOTED
 ORIGINAL DATE: 11-12-19
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 07 of 09

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- NOTES:**
- STEEL POSTS, RAILS & BRACES SHALL BE:
 - STANDARD WEIGHT SCHEDULE 40 GALVANIZED STEEL PIPE; POSTS, RAILS, AND BRACES SHALL BE STANDARD WEIGHT SCHEDULE 40 GALVANIZED STEEL PIPE, MANUFACTURED IN ACCORDANCE WITH ASTM F1083. PIPE SHALL BE GALVANIZED BOTH INSIDE AND OUT IN ACCORDANCE WITH ASTM F1083.
 - PIPE/TUBING DIAMETERS INDICATED HEREIN ARE FENCE INDUSTRY O.D. (OUTSIDE DIAMETER). THE FOLLOWING TABLE ALSO PRESENTS ACTUAL DECIMAL O.D. EQUIVALENTS.

PIPE/TUBING SIZES

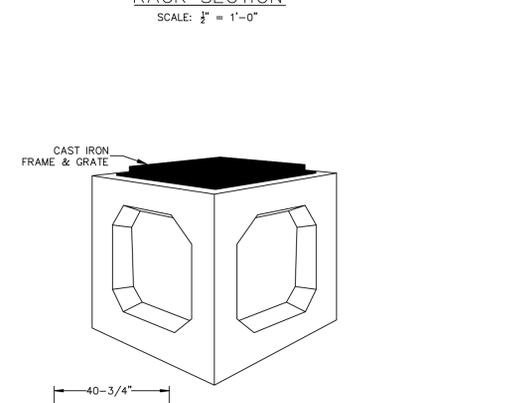
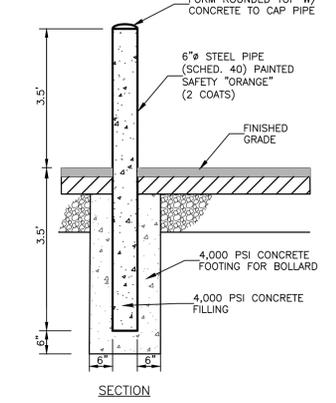
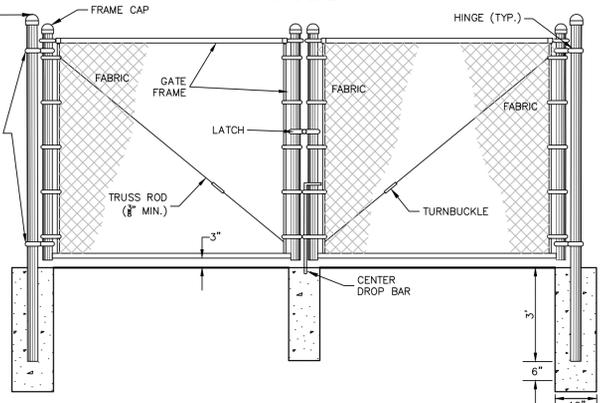
FENCE INDUSTRY O.D.	DECIMAL O.D. EQUIVALENT
1 1/8"	1.315"
1 1/4"	1.660"
2"	1.900"
2 1/2"	2.375"
3"	2.875"
4"	4.000"
4 1/2"	4.500"
6 3/4"	6.625"
8 3/4"	8.625"

- FENCE FABRIC AND ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL. FENCE FABRIC SHALL BE 9 GAUGE WIRE SIZE, 2" MESH, AND SHALL BE KNUCKLED AT THE TOP AND BOTTOM OF THE FABRIC. FENCE FABRIC, POSTS, RAILS, FITTINGS, AND APPURTENANCES SHALL CONFORM WITH SECTION 607, FENCES, AND SECTION 710, FENCE AND GUIDERAIL, OF THE NYSDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERETO.
- THE WIRE SHALL BE AS FOLLOWS:
 - AT POSTS, RAILS, TRUSS RODS, AND WHERE NECESSARY ON GATE FRAMES, MINIMUM 11 GAUGE GALVANIZED STEEL SPACED AT NOT LESS THAN 14" ON CENTER, (ALUMINUM LINE POSTS TIES MAY BE UTILIZED AS APPROVED BY THE ENGINEER).
 - AT TENSION WIRE: BY HOG RINGS SPACED AT NOT LESS THAN 18" ON CENTER.
- TRUSS ROD SHALL BE 3/8" DIAMETER GALVANIZED STEEL ROD TIED TO FENCE FABRIC AS PROVIDED FOR IN NOTE NO. 9A. PROVIDE THREADS AS NECESSARY ON TRUSS ROD AND COMPATIBLE NUTS ON TURNBUCKLE TO FACILITATE TIGHTENING TO PUT TRUSS ROD IN TENSION.
- TENSION WIRE SHALL BE 7 GAUGE GALVANIZED STEEL COIL SPRING WIRE. LOCATE TENSION WIRE 6" (NOMINALLY) FROM BOTTOM OF FENCE FABRIC.
- FENCE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F-567 AND GATES SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F-900.
- GATE FRAMES:
 - FOR UP TO 4'-0", SINGLE PANEL OR 8'-0" DOUBLE PANEL GATES, GATE FRAMES SHALL BE FABRICATED FROM 1 1/2" O.D. PIPE/TUBING FOR LARGER GATES, GATE FRAMES SHALL BE FABRICATED FROM 2" O.D. PIPE/TUBING. FRAMES OF SINGLE PANEL GATES FOR OPENINGS OF 4'-0" AND LARGER, AND PANELS OF DOUBLE PANEL GATES 8'-0" AND LARGER SHALL INCLUDE A DIAGONAL BRACE, AS SHOWN IN THE DETAIL ABOVE, WELDED TO THE GATE FRAME DURING FABRICATION. THE DIAGONAL BRACE SHALL BE 1 1/2" O.D. PIPE/TUBING. GATE FRAME FABRICATION SHALL BE BY WELDING.
 - SPECIFIC DETAILS, IF PROVIDED, SHALL TAKE PRECEDENCE OVER THESE NOTES IF AT VARIANCE.
 - EACH SIDE OF A GATE FRAME SHALL HAVE THE FOLLOWING NUMBER OF EQUALLY SPACED CHAIN LINK BANDS OF AN INSIDE DIAMETER APPROPRIATE TO THE OUTSIDE DIAMETER OF THE SCHEDULE 40 GALVANIZED STEEL PIPE FROM WHICH THE SAID FRAME IS MANUFACTURED:
 - FOR 7' HIGH GATE FRAME: 7 EACH CHAIN LINK BANDS PER GATE PANEL SIDE.
 - DOUBLE GATE PANEL GATES SHALL BE PROVIDED WITH HOLD OPEN DEVICES.
 - DOUBLE PANEL GATES SHALL BE PROVIDED WITH A CENTER DROP ROD AND A DROP ROD CATCHMENT PIPE SET IN CONCRETE AND LOCATED SUCH THAT WHEN THE DROP IS ENGAGED, THE GATE PANELS ARE ON THE SAME HORIZONTAL ALIGNMENT AS THE ADJACENT FENCE.

- THE GATE LATCH SHALL BE THE MALLEABLE IRON FORK TYPE AS MANUFACTURED BY "HOOVER FENCE CO." AS THEIR "STRONG ARM" INDUSTRIAL GATE LATCH. PAD LOCKS WILL BE PROVIDED BY THE OWNER.
- GATE HINGES SHALL BE WELDABLE STEEL, CAST STEEL, OR MALLEABLE IRON 180 DEGREE OFFSET INDUSTRIAL TYPE. THE HINGES SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. THE GATE(S) SHALL BE CAPABLE OF BEING CLOSED BY ONE PERSON. HINGES SHALL BE GALVANIZED.
- POST FOUNDATIONS:
 - CORNER POSTS, PULL POSTS, END POSTS, AND GATE POSTS SHALL EACH BE SET IN CONCRETE FOUNDATIONS AS FOLLOWS:

POST SIZE (FENCE INDUSTRY O.D.)	DIAMETER	DEPTH
2 1/2" O.D.	12"	3'-0"
3" O.D.	12"	3'-6"
3 1/2" O.D.	15"	3'-6"
4" O.D.	18"	3'-6"
4 1/2" O.D.	18"	4'-0"

- LARGER POSTS AND SPECIFIC CONDITIONS SHALL BE AS DETAIL. DETAILS SHALL TAKE PRECEDENCE OVER THESE NOTES IF AT VARIANCE.
- LINE POSTS SHALL EACH BE SET IN CONCRETE FOUNDATIONS AS FOLLOWS:
- | POST SIZE (FENCE INDUSTRY O.D.) | DIAMETER | DEPTH |
|---------------------------------|----------|--------|
| 2" O.D. | 9" | 2'-10" |
| 2 1/2" O.D. | 12" | 3'-4" |
- ALL CONCRETE FOR POST FOUNDATIONS SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 4,000 PSI.
- FENCE COATINGS:
 - ALL FENCE COMPONENTS WILL BE BLACK VINYL COATED.



NOTE: PERIMETER GATES SECURED FOR RESTRICTED ACCESS MUST BE EQUIPPED WITH AN EMERGENCY SERVICES ENTRY SYSTEM. PROVIDE KNOX EXTERIOR PADLOCK MODEL 3770. THE PADLOCK SHALL BE DAISY CHAINED WITH THE OWNER PADLOCK(S) PROVIDED.

- NOTES:**
- HORIZONTAL DISTANCE FROM CENTERLINE TO CENTERLINE OF BOLLARDS SHALL BE 4'-0" MAXIMUM.
 - HORIZONTAL DISTANCE FROM BOLLARD TO OBJECT BEING PROTECTED SHALL BE 3'-6" MINIMUM.
 - SEE PLANS FOR BOLLARD LOCATIONS.

ROAD CONSTRUCTION PROCEDURES

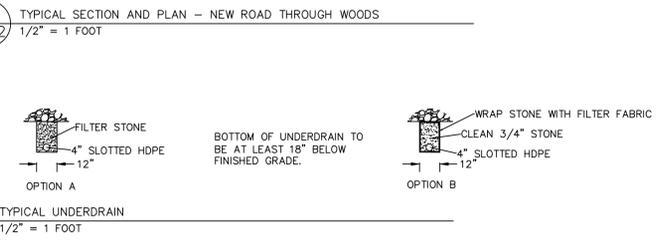
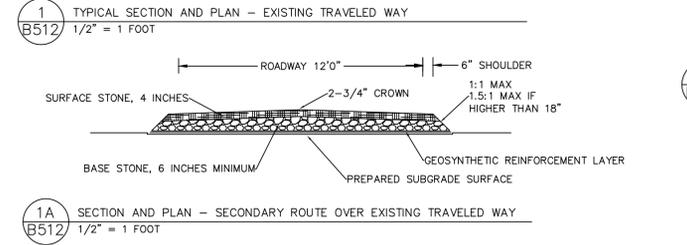
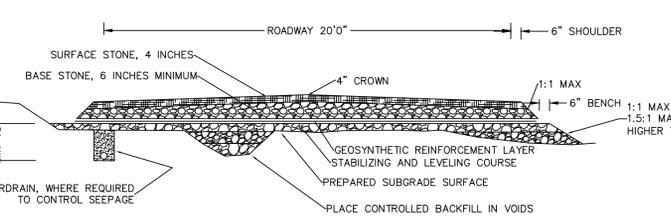
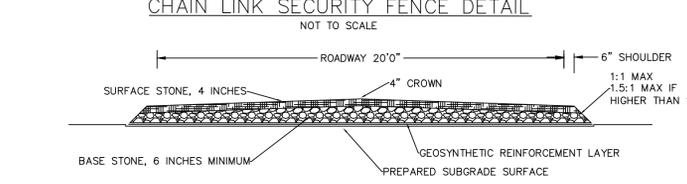
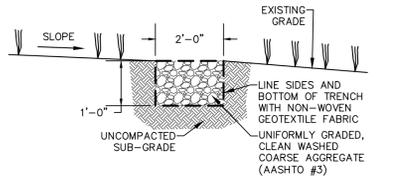
- CONSTRUCTION ON EXISTING CLEARED TRAVELED WAY
 - BLADE THE SURFACE TO REMOVE ALL GRASS AND VEGETATION, TO THE TOP OF THE SOIL SURFACE. MINIMIZE DISTURBANCE OF SOIL.
 - PLACE A FINE-GRADING LAYER OF SURFACE STONE OR SELECT SITE-BORROW SOIL TO FILL ANY LOW SPOTS THAT COULD TRAP WATER UNDER THE ROADWAY.
 - COMPACT THE SUBGRADE SURFACE WITH A SMOOTH-DRUM VIBRATORY SOIL ROLLER WITH A MINIMUM NOMINAL SIZE OF 10 TONS.
 - PLACE GEOSYNTHETIC REINFORCEMENT OVER THE PREPARED SUBGRADE SURFACE. LAP ALL SEAMS AT LEAST 12 INCHES.
 - PLACE BASE STONE OVER THE GEOSYNTHETIC LAYER, WITH A MINIMUM THICKNESS OF SIX INCHES, SHAPED TO PRODUCE A 4-INCH CROWN IN THE CENTER OF THE ROAD. IF THE MAXIMUM THICKNESS OF BASE STONE WILL EXCEED 16 INCHES, PLACE THE STONE IN TWO OR MORE EQUAL LIFTS.
 - COMPACT THE BASE STONE WITH AT LEAST SIX VIBRATORY PASSES OF THE ROLLER.
 - PLACE AND GRADE THE SURFACE STONE IN A 4-INCH LIFT OVER THE BASE STONE.
 - COMPACT THE SURFACE STONE WITH AT LEAST FOUR PASSES OF THE VIBRATORY ROLLER.
- CONSTRUCTION ON NEWLY-CLEARED AREAS
 - FILL ALL BOULDER POCKETS, STUMP HOLES AND OTHER VOIDS WITH THOROUGHLY-COMPACTED BASE STONE OR SURFACE STONE, OR GOOD-QUALITY SITE BORROW SOIL.
 - PLACE A STABILIZING AND LEVELING COURSE OF BASE STONE OVER THE SUBGRADE SURFACE. THIS COURSE SHOULD BE AT LEAST FOUR INCHES THICK OVER HIGH SPOTS. IN LOCATIONS WHERE IT WILL EXCEED 12 INCHES THICKNESS, PLACE THIS COURSE IN MULTIPLE LIFTS.
 - COMPACT THE STABILIZING AND LEVELING COURSE WITH AT LEAST SIX PASSES OF A SINGLE-DRUM VIBRATORY SOIL ROLLER WITH A NOMINAL WEIGHT OF AT LEAST 7 TONS, EQUIPPED WITH A SHEEPS-FOOT OR DEEP TAMMING-FOOT DRUM.
 - FINE-GRADE THE SURFACE OF THE LEVELING COURSE. RE-COMPACT ANY RE-WORKED AREAS WITH A SMOOTH-DRUM ROLLER.
 - PLACE GEOSYNTHETIC REINFORCEMENT OVER THE STABILIZING AND LEVELING COURSE. LAP ALL SEAMS AT LEAST 12 INCHES.
 - PLACE BASE STONE OVER THE GEOSYNTHETIC LAYER, WITH A MINIMUM THICKNESS OF SIX INCHES, SHAPED TO PRODUCE A 4-INCH CROWN IN THE CENTER OF THE ROAD. IF THE MAXIMUM THICKNESS OF BASE STONE WILL EXCEED 16 INCHES, PLACE THE STONE IN TWO OR MORE EQUAL LIFTS.
 - COMPACT THE BASE STONE WITH AT LEAST SIX VIBRATORY PASSES OF A SINGLE-DRUM VIBRATORY ROLLER WITH A NOMINAL WEIGHT OF AT LEAST 10 TONS, EQUIPPED WITH A SMOOTH DRUM.
 - PLACE AND GRADE THE SURFACE STONE IN A 4-INCH LIFT OVER THE BASE STONE.
 - COMPACT THE SURFACE STONE WITH AT LEAST FOUR PASSES OF THE SMOOTH-DRUM VIBRATORY ROLLER.

- MATERIALS
 - BASE STONE SHALL BE CRUSHED STONE, 1-1/2" TO 3" NOMINAL SIZE, CONTAINING SUFFICIENT FINES TO FILL THE VOIDS.

BASE STONE	Sieve	% Pass
4"	100	100
2"	40-90	100
1 1/2"	5-20	100
#40	2-20	100
#200	2-10	100
 - SURFACE STONE

SURFACE STONE	Sieve	% Pass
2"	100	100
1 1/4"	25-60	100
#40	5-40	100
#200	0-10	100
 - FILTER STONE SHALL BE NYSDOT ITEM 733-20, TYPE 1 OR TYPE 2. FOR OPTION B, 3/4" STONE SHALL BE ASTM C33 #5, #6, #57 OR #67 SIZE, OR NYSDOT CA-2 OR ITEM 702 #2 SIZE.

FILTER TYPE 1	Sieve	% Pass
1/2"	30-100	100
1/4"	0-30	100
#10	0-10	100
#20	0-5	100
- GEOSYNTHETIC REINFORCEMENT TEN CATE MIRAFI 60X WOVEN REINFORCEMENT GEOTEXTILE OR EQUIVALENT.
- FILTER FABRIC CARTHAGE MILLS "CARTHAGE 65" WOVEN DRAINAGE GEOTEXTILE OF EQUIVALENT.



- NOTES:**
- INSTALL ON EXISTING AREAS THAT HAVE A 10% SLOPE OR LESS.

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Dig Safely. New York
Call 811 before you dig

#REV.	BY	DATE	DESCRIPTION
#5	MM	3/16/21	PER 3/16/21 SITE VISIT
#4	MM	2/23/21	PER WS COMMENTS
#3	MM	1/11/21	PER PB COMMENTS
#2	MM	10/30/20	FINAL PLAN PREPARATION
#1	MM	1/24/20	REVISION PER MHE 1/2/20 COMMENT LETTER

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

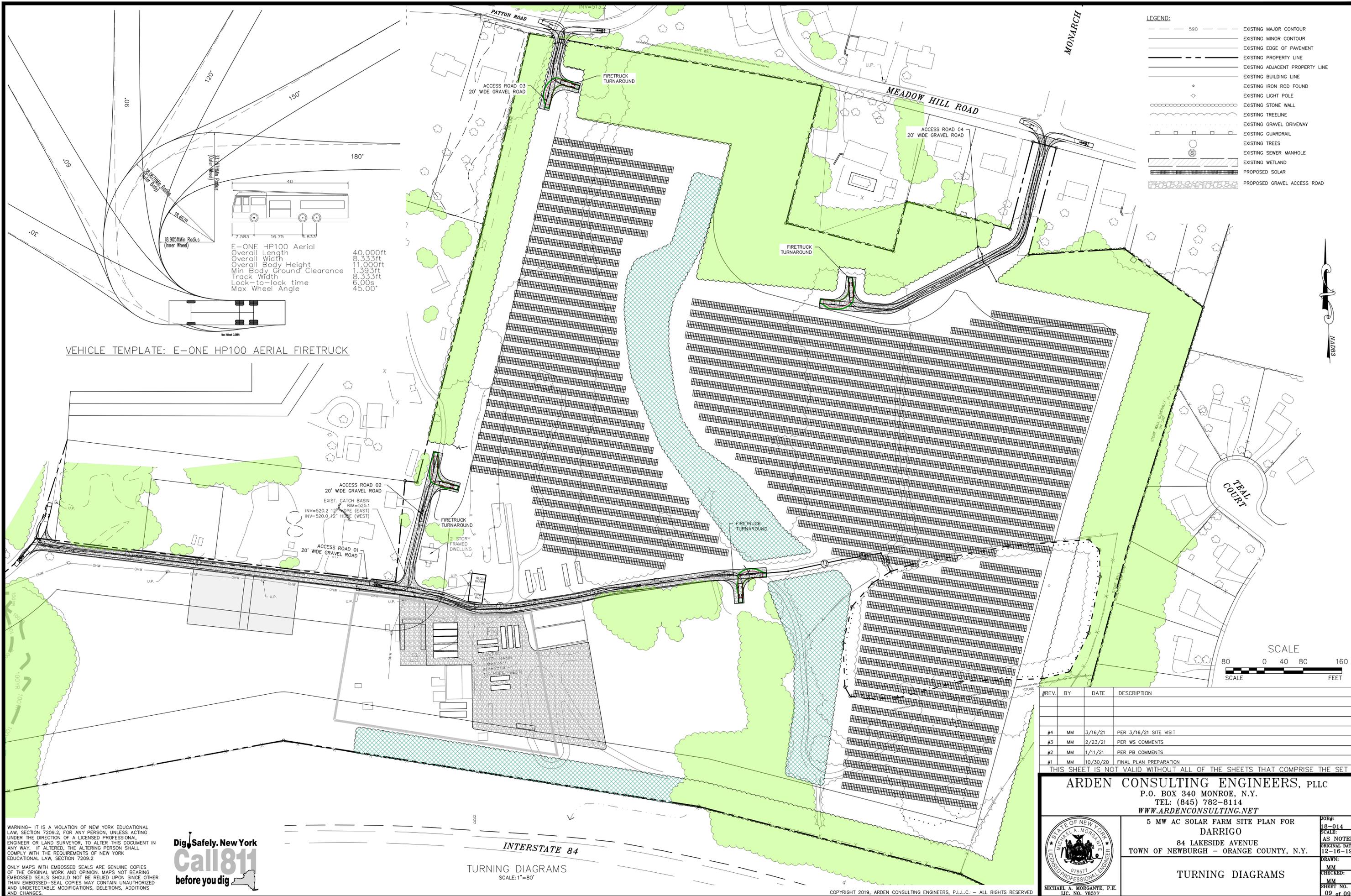
ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

5 MW AC SOLAR FARM SITE PLAN FOR DARRIGO
84 LAKESIDE AVENUE
TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.

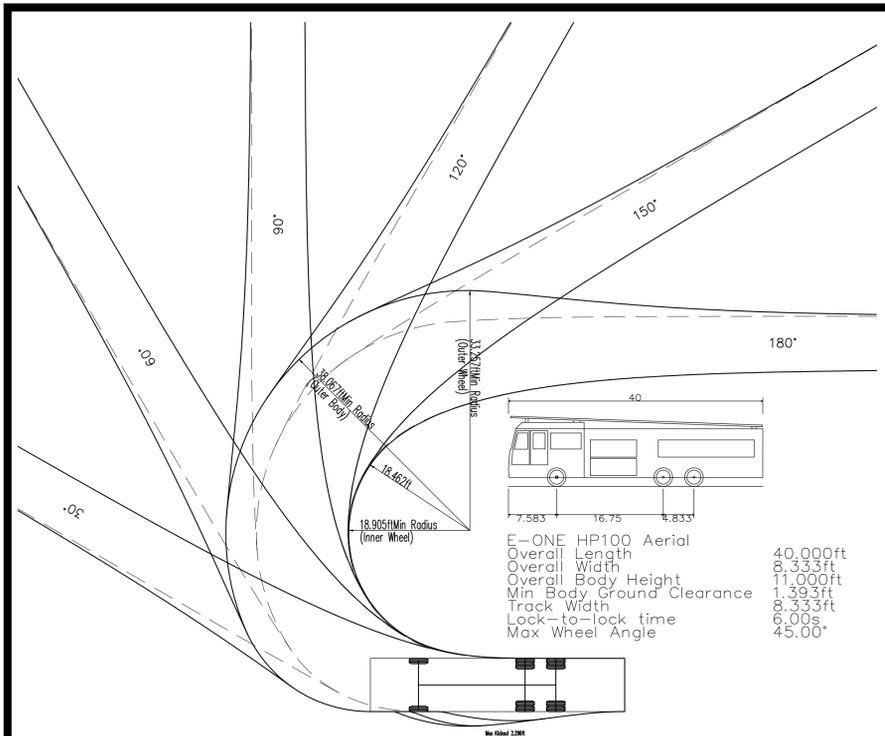
CONSTRUCTION DETAILS

JOB#: 18-014
SCALE: AS NOTED
ORIGINAL DATE: 12-16-19
DRAWN: MM
CHECKED: MM
SHEET NO. 08 OF 09

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577



- LEGEND:
- 590 — EXISTING MAJOR CONTOUR
 - — EXISTING MINOR CONTOUR
 - — EXISTING EDGE OF PAVEMENT
 - — EXISTING PROPERTY LINE
 - — EXISTING ADJACENT PROPERTY LINE
 - — EXISTING BUILDING LINE
 - — EXISTING IRON ROD FOUND
 - — EXISTING LIGHT POLE
 - — EXISTING STONE WALL
 - — EXISTING TREELINE
 - — EXISTING GRAVEL DRIVEWAY
 - — EXISTING GUARDRAIL
 - — EXISTING TREES
 - — EXISTING SEWER MANHOLE
 - — EXISTING WETLAND
 - — PROPOSED SOLAR
 - — PROPOSED GRAVEL ACCESS ROAD



VEHICLE TEMPLATE: E-ONE HP100 AERIAL FIRETRUCK

ACCESS ROAD 02
20' WIDE GRAVEL ROAD
EXIST. CATCH BASIN
RIM=525.1
INV=520.2 12% SLOPE (EAST)
INV=520.0 12% SLOPE (WEST)

TURNING DIAGRAMS
SCALE: 1"=80'

#REV.	BY	DATE	DESCRIPTION
#4	MM	3/16/21	PER 3/16/21 SITE VISIT
#3	MM	2/23/21	PER WS COMMENTS
#2	MM	1/11/21	PER PB COMMENTS
#1	MM	10/30/20	FINAL PLAN PREPARATION

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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5 MW AC SOLAR FARM SITE PLAN FOR DARRIGO
84 LAKESIDE AVENUE
TOWN OF NEWBURGH - ORANGE COUNTY, N.Y.

TURNING DIAGRAMS

JOB#: 18-014
SCALE: AS NOTED
ORIGINAL DATE: 12-16-19
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PLANTING NOTES:

- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMAL GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. PROVIDE QUALITY, SIZE, GENUS, SPECIES, VARIETY OF TREES AND SHRUBS INDICATED, AND ROOT BALL SIZE COMPLYING WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK." ALL PLANTS SHOULD BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
- PLANT SIZES: MEASURE TREES AND SHRUBS ACCORDING TO ANSI Z60.1 WITH BRANCHES AND TRUNKS OR CANES IN THEIR NORMAL POSITION. TAKE CALIPER MEASUREMENTS 6 INCHES ABOVE GROUND FOR TREES UP TO 4-INCH CALIPER SIZE, MEASURE MAIN BODY OF TREE OR SHRUB FOR HEIGHT AND SPREAD; DO NOT MEASURE BRANCHES OR ROOTS TIP-TO-TIP.
- ALL CONTAINER GROWN PLANTS SHALL BE SIZED ACCORDING TO ANSI Z60.1 FOR TYPE AND SIZE OF PLANT REQUIRED. PLANTS SHALL BE PREMIUM QUALITY, APPEAR "FULL", OR "HEAVY" WITHIN THEIR CONTAINER, AND BE REPRESENTATIVE OF THE CONTAINER SIZE SPECIFIED. PLANTS DEEMED TO BE SUBSTANDARD IN SIZE BY THE LANDSCAPE ARCHITECT WILL BE REJECTED.
- ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN UNLESS OTHERWISE NOTED ON PLANT LIST.
- TREES SHOULD BE FRESHLY DUG DURING THE SEASON OF PLANTING, MARCH 1ST TO MAY 1ST FOR SPRING PLANTING AND OCTOBER 15TH TO DECEMBER 15TH FOR FALL PLANTING. PLANTS KNOWN AS FALL DIG HAZARDS SHALL BE DUG IN THE SPRING ONLY.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- IN GENERAL, PLANT SPECIES SUBSTITUTIONS WILL NOT BE ACCEPTED. IF SPECIFIED MATERIAL IS NOT OBTAINABLE, CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT ALONG WITH PROPOSED SUBSTITUTION. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, SIZE, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME
- DURING PROGRESS OF WORK. CONTRACTOR SHALL REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PROPOSED PLANT MATERIAL AND PLANT BEDS FOR APPROVAL BY THE DEVELOPER OR DEVELOPER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF PLANTING.
- INSTALLED PLANTS SHALL BEAR THE SAME RELATIONSHIP TO PROPOSED GRADE AS THEY BORE TO PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- CONTRACTOR SHALL PROVIDE LONG LASTING, SLOW RELEASE STARTER FERTILIZER IN EACH PLANTING PIT FOR TREES, SHRUBS AND PERENNIALS.
- ALL PLANT BEDS SHALL RECEIVE THREE INCHES (3") OF SHREDDED BARK MULCH. MULCH SHALL BE FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS, CONSISTING OF DOUBLE HAMMERED SHREDDED BARK MULCH COMPRISED OF EITHER HARDWOOD OR SOFTWOOD SHREDDED BARK. SHREDDED BARK MULCH SHALL NOT EXCEED 3" IN GREATEST DIMENSION, AND SHALL BE DARK BROWN IN COLOR.
- PLANTS SHALL BE DELIVERED ONLY AS THEY CAN BE INSTALLED IN REASONABLE TIME. ALL PLANTS ARE SUBJECT TO INSPECTION AT DELIVERY BY THE LANDSCAPE ARCHITECT / OWNER'S REPRESENTATIVE.
- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE FOR A MINIMUM 30-DAY MONITORING PERIOD AFTER NOTIFICATION OF SUBSTANTIAL COMPLETION, AND UNTIL FINAL ACCEPTANCE, WHICHEVER IS GREATER. MAINTENANCE INCLUDES PRUNING, WEEDING, WATERING, FERTILIZATION, AND RE-SEEDING AS NECESSARY.
- PROTECT PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND OPERATIONS OF OTHER CONTRACTORS AND TRADES. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.
- FOLLOWING THE ISSUANCE OF THE CERTIFICATE OF SUBSTANTIAL COMPLETION TO THE CONTRACTOR, THE CONTRACTOR SHALL MAINTAIN THE PLANTS FOR THE MAINTENANCE PERIOD SPECIFIED

IN THIS SECTION.

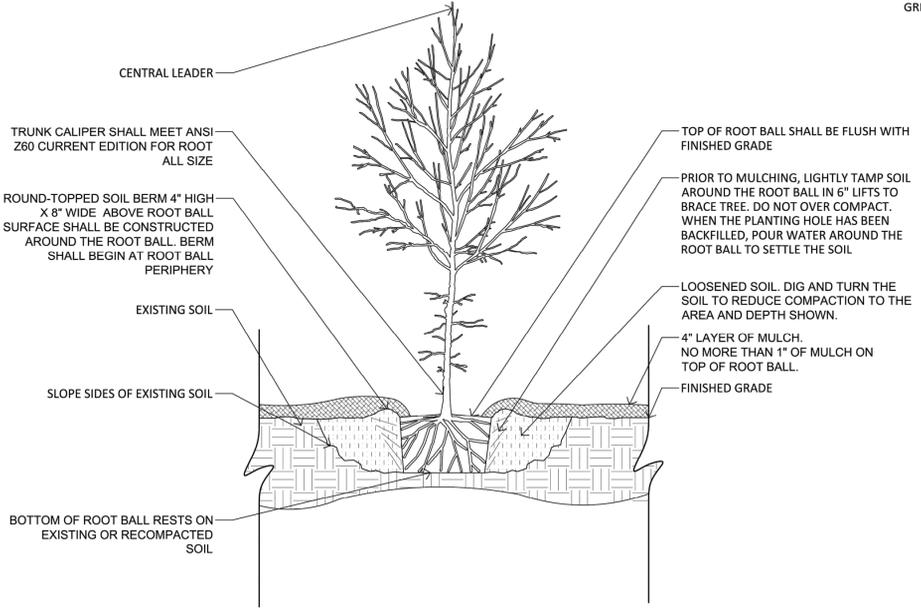
- ACCEPTANCE STANDARDS AT END OF THE MAINTENANCE PERIOD:
 - PLANTS SHALL BE FREE OF FROST CRACKS; SUN SCALD; DAMAGE DUE TO INSECTS, PESTS, AND DISEASE; STRUCTURAL DEFECTS; AND DAMAGE RESULTING FROM MACHINERY OR TOOLS. ALL PLANTS REGARDLESS OF THE SEASON OF REVIEW SHALL HAVE A MINIMUM OF 75 PERCENT HEALTHY, BALANCED BRANCHING STRUCTURE WITH A HEALTHY TERMINAL LEADER(S) WITH VIGILANT TERMINAL BUD(S). TREES SHALL BE PLUMB AND SHOW NO SIGNS OF UNEVEN SETTLING OR LEANING.
 - LAWN AREAS SHALL HAVE A HEALTHY, UNIFORM STAND OF GRASS FREE OF WEEDS, SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90% OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5"x5".
- GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL TO REMAIN ALIVE AND BE IN A HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF PLANTING WORK, AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY WORK.
- CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MORE THAN 25% DEAD OR, AS DETERMINED BY THE LANDSCAPE ARCHITECT, ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION. CONTRACTOR SHALL BEAR THE COST OF COMPLETE REPLACEMENT(S). REPLACEMENTS SHALL BE OF THE SAME SIZE AND SPECIES AS SPECIFIED ON THE PLANTING LIST.
- SEED MIXES TO BE BROADCAST SPREAD: FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH AOSA'S "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES. PROVIDE SEED MIXTURE COMPOSED OF SPECIES, PROPORTIONS AND MINIMUM PERCENTAGES OF PURITY, GERMINATION, AND MAXIMUM PERCENTAGE OF WEED SEED, AS FOLLOWS:

Erosion Control & Revegetation for Sloped Areas:

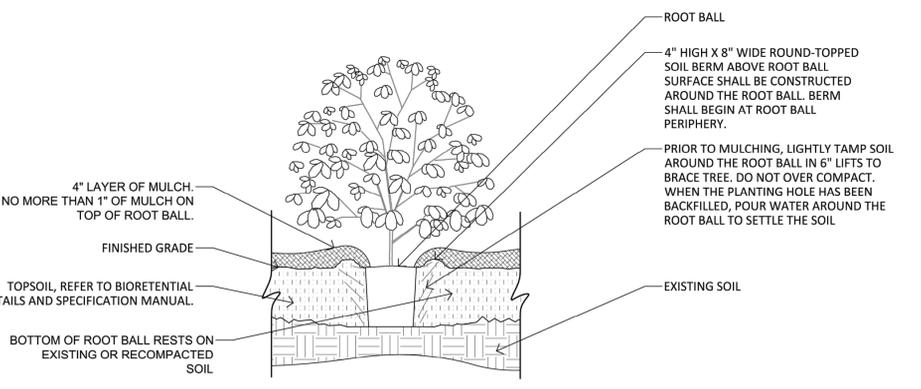
Ernst Seed Mix ERNMx-181 (Native Steep Slope Mix w/Annual Ryegrass) or approved equal
Seeding Rate: 60 lb per acre, or 1.5 lb per 1,000 sq ft

Buffer Area along I-84 and East Property Boundary:

Ernst Seed Mix ERNMx-111 (Ernst Native Habitat for Strip Mines Mix) or approved equal
Seeding Rate: 20 lb per acre
- TREES WITHIN BUFFER AREAS TO BE MAINTAINED TO A HEIGHT NO GREATER THAN 30', APPROXIMATELY TOPPED EVERY THREE YEARS.



1 TREE PLANTING
SCALE: N.T.S.



2 SHRUB OR PERENNIAL PLANTING
SCALE: N.T.S.



Plant List - Solar, buffer

#	Abbr.	Botanical Name	Common Name	Mature Height	Planting Size	Spacing
Trees						
16	AR	Acer rubrum	Red Maple	40-75'	#15 Cont., 8' height min.	As shown on plans
107	ARt	Acer rubrum	Red Maple	40-75'	6-8" dia. Wattle of 2-year whips	15' O.C., Random
17	PG	Picea glauca 'Conica'	Dwarf Alberta Spruce	12'	30-36" B&B	As shown on plans
107	PSr	Pinus sylvestris	Scotch Pine	30-50'	2-year whips	15' O.C., Random
6	QA	Quercus alba	White Oak	50-80'	2-2.5" Cal. B&B, 12' height min.	As shown on plans
Shrubs						
18	ac	Amelanchier canadensis	Shadbush Serviceberry	6-20'	#7 MS, 6-8' height min.	As shown on plans
24	aa	Aronia arbutifolia	Red Chokeberry	5-10'	#3, 36 height min.	As shown on plans
107	aat	Aronia arbutifolia	Red Chokeberry	5-10'	6-8" dia. Wattle of 2-year whips	15' O.C., Random
9	cr	Cornus racemosa	Gray Dogwood	8-15'	#3 Cont., 36" height min.	As shown on plans
107	cr1	Cornus racemosa	Gray Dogwood	8-15'	6-8" dia. Wattle of 2-year whips	15' O.C., Random
23	ra	Rhus aromatica	Fragrant Sumac	2-6'	#2 Cont., 24' height min.	As shown on plans
20	vl	Viburnum lentago	Nannyberry	14-16'	3-4" B&B	As shown on plans
107	vlr	Viburnum lentago	Nannyberry	14-16'	6-8" dia. Wattle of 2-year whips	15' O.C., Random

LEGEND

- EVERGREEN TREE - APPROXIMATE MATURE PLANT SIZE
- DECIDUOUS SHRUB - APPROXIMATE SIZE AT PLANTING
- DECIDUOUS TREE - APPROXIMATE MATURE PLANT SIZE
- DECIDUOUS TREE - APPROXIMATE SIZE AT PLANTING

0 50 100 200
BAR SCALE 1 Inch = 100 ft.

FOR PERMITTING PURPOSES ONLY

Jessica V Marquard, R.L.A.
NYS RLA #002310

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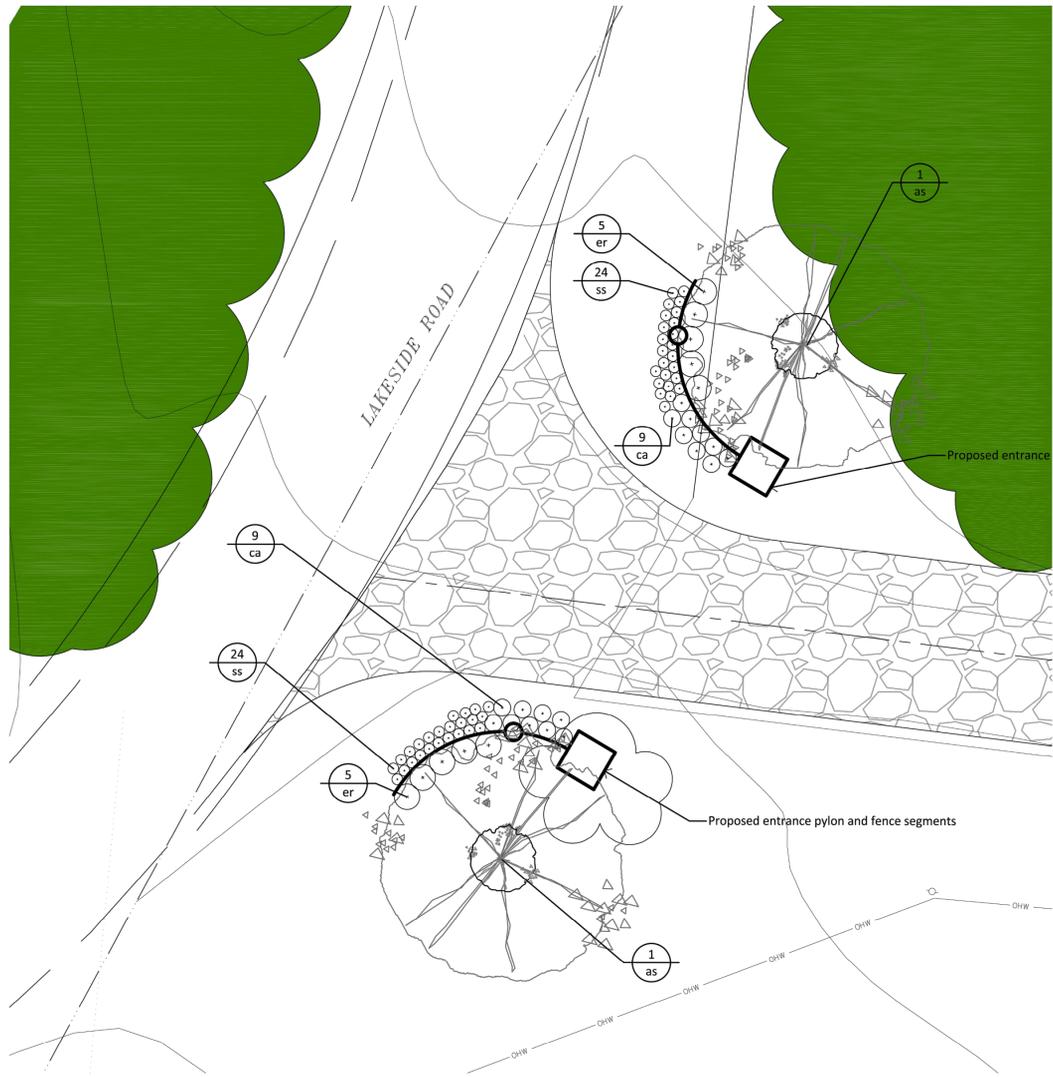
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REVISIONS No.	Date	Description	Chk
0	11/5/2020	INITIAL SUBMISSION	JVM

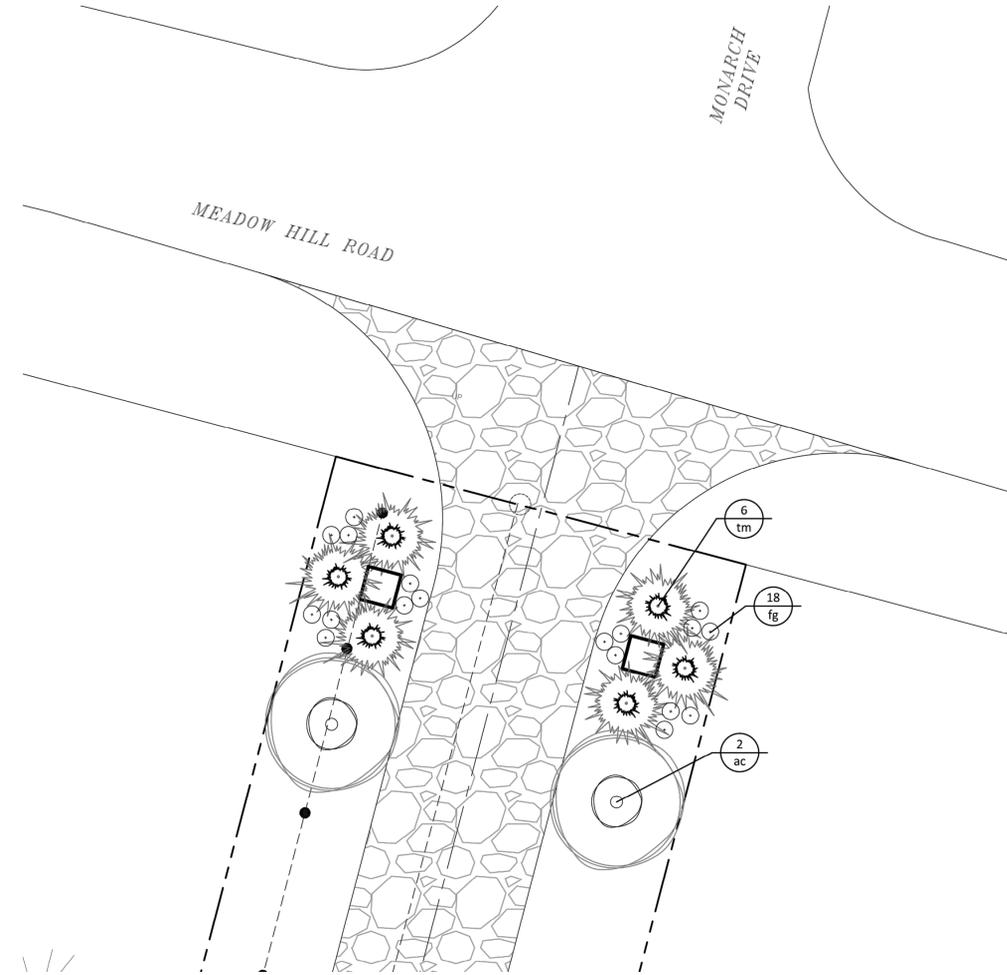
Drawing Title
LANDSCAPE PLAN

Drawing Number

L-110



1 LAKESIDE ROAD ENTRANCE PLANTING
SCALE: 1" = 10'



2 MEADOW HILL ROAD ENTRANCE PLANTING
SCALE: 1" = 10'

LEGEND

- APPROXIMATE MATURE PLANT SIZE
- APPROXIMATE SIZE AT PLANTING
- EVERGREEN TREE APPROXIMATE MATURE PLANT SIZE
- DECIDUOUS TREE APPROXIMATE MATURE PLANT SIZE
- DECIDUOUS SHRUB APPROXIMATE SIZE AT PLANTING
- DECIDUOUS TREE APPROXIMATE SIZE AT PLANTING

0 5 10 20
BAR SCALE 1 inch = 10 ft.

Plant List - Site Entrances

#	Abbr.	Botanical Name	Common Name	Mature Height	Planting Size	Spacing
2	AS	Acer saccharum	Sugar Maple	60-70'	1.75'-2" B&B	As shown on plans
2	ac	Amelanchier canadensis	Shadbush Serviceberry	6-20'	#7 MS; 6-8" height min.	As shown on plans
18	ca	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	4-5'	#2 Cont., 24" height min.	As shown on plans
10	er	Eriandthus ravennae	Hardy Pampas Grass	8-10'	#2 Cont., 24" height min.	As shown on plans
18	fg	Fothergilla gardenii	Dwarf fothergilla	3-4'	#3, 36 height min.	As shown on plans
48	ss	Sedum spectabile 'Autumn Joy'	Autumn Joy Sedum	18-24"	#1 Cont., 12" height min.	As shown on plans
6	tm	Taxus x media 'Nigra'	Nigra Yew	6'	#3, 36 height min.	As shown on plans

REVISIONS No.	Date	Description	Chk
0	11/16/2020	DRAFT	JVM