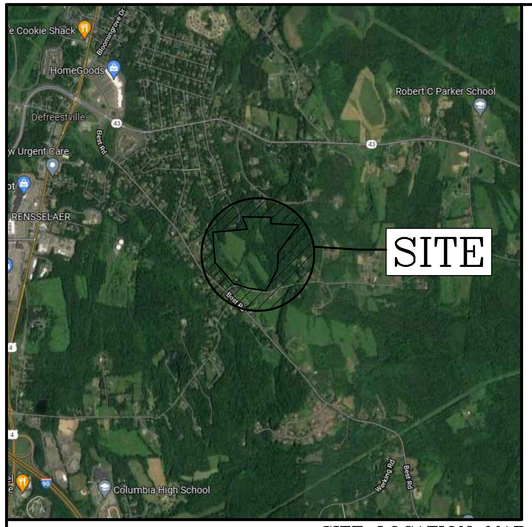


SITE LOCATION MAP
SCALE: 1" = 2000'

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT/OWNER:

ELP GREENBUSH SOLAR, LLC

MORNER ROAD
TOWN OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

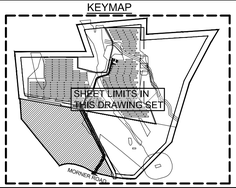
SHEET INDEX:	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	OVERALL SITE PLAN
3	EXISTING CONDITIONS
4	SUBDIVISION PLAN
5	SITE PLAN
6	SITE PLAN
7	SITE PLAN
8	EROSION & SEDIMENT CONTROL PLAN
9	SITE DETAILS
10	SITE DETAILS
11	SITE DETAILS

RECORD OF SUBMITTALS	DATE	BY
SUBMITTAL TO TOWN OF GREENBUSH PLANNING BOARD	3/14/2022	BPO

SOLAR FIELD LAYOUT FOR
ELP GREENBUSH SOLAR
APPLICANT: ELP GREENBUSH SOLAR LLC
13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK
FEBRUARY 1, 2022

KEYMAP



TOWN OF NORTH GREENBUSH PLANNING BOARD APPROVAL

REVISION	DATE	BY

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621 edpllp.com

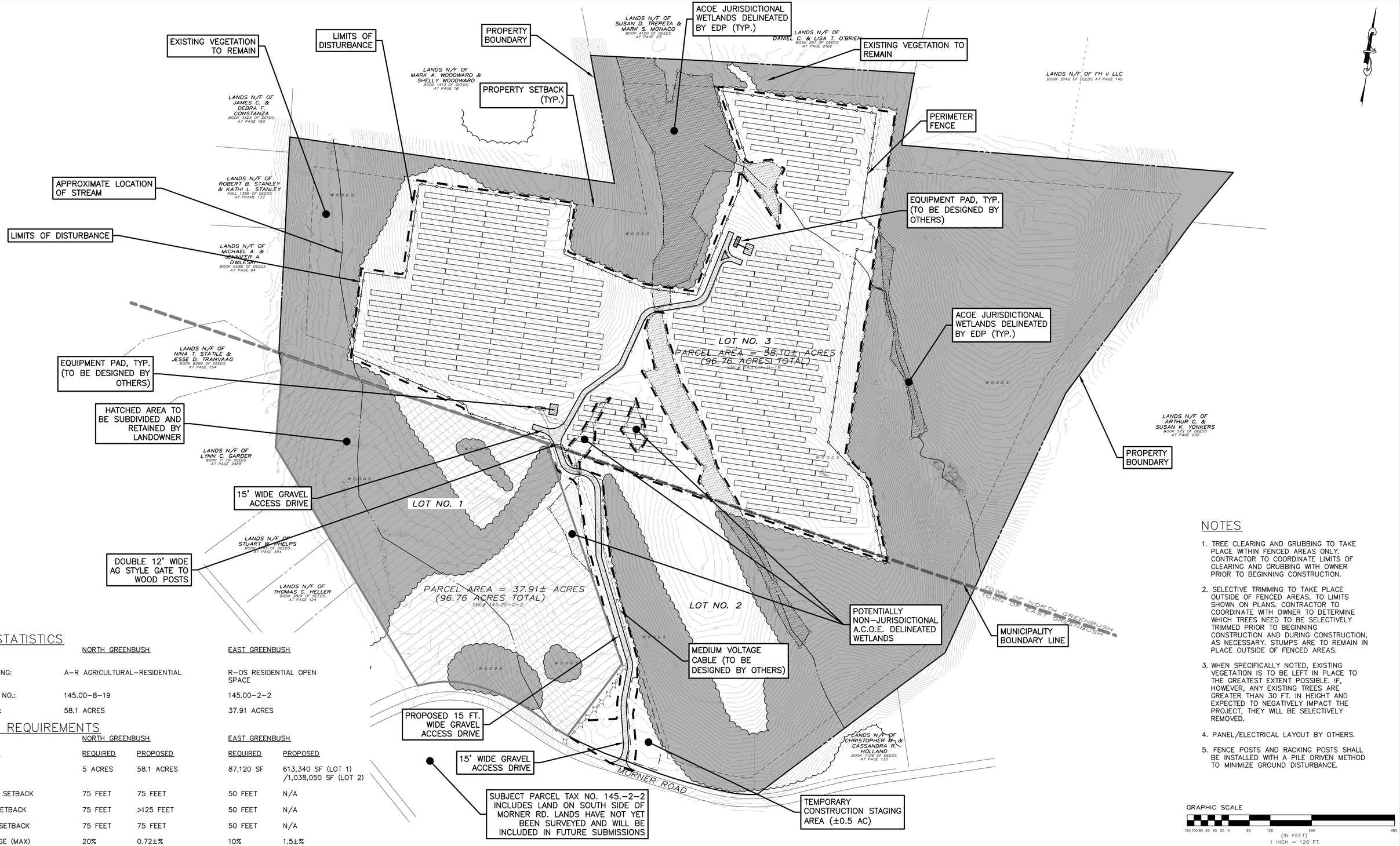
DRAWN BY	NLZ
CHECK BY	BPO
EDP PROJECT NUMBER	12864

DRAFT: NOT FOR CONSTRUCTION

SCALE: AS NOTED

SHEET TITLE: COVER SHEET

SHEET: 1 of 11



SITE STATISTICS

	NORTH GREENBUSH	EAST GREENBUSH
PARCEL ZONING:	A–R AGRICULTURAL–RESIDENTIAL	R–OS RESIDENTIAL OPEN SPACE
TAX PARCEL NO.:	145.00–8–19	145.00–2–2
PARCEL SIZE:	58.1 ACRES	37.91 ACRES

ZONING REQUIREMENTS

	NORTH GREENBUSH		EAST GREENBUSH	
PARCEL SIZE	REQUIRED	PROPOSED	REQUIRED	PROPOSED
PARCEL SIZE	5 ACRES	58.1 ACRES	87,120 SF	613,340 SF (LOT 1) /1,038,050 SF (LOT 2)
FRONT YARD SETBACK	75 FEET	75 FEET	50 FEET	N/A
SIDE YARD SETBACK	75 FEET	>125 FEET	50 FEET	N/A
REAR YARD SETBACK	75 FEET	75 FEET	50 FEET	N/A
LOT COVERAGE (MAX)	20%	0.72±%	10%	1.5±%

NOTES

1. TREE CLEARING AND GRUBBING TO TAKE PLACE WITHIN FENCED AREAS ONLY. CONTRACTOR TO COORDINATE LIMITS OF CLEARING AND GRUBBING WITH OWNER PRIOR TO BEGINNING CONSTRUCTION.
2. SELECTIVE TRIMMING TO TAKE PLACE OUTSIDE OF FENCED AREAS, TO LIMITS SHOWN ON PLANS. CONTRACTOR TO COORDINATE WITH OWNER TO DETERMINE WHICH TREES NEED TO BE SELECTIVELY TRIMMED PRIOR TO BEGINNING CONSTRUCTION AND DURING CONSTRUCTION, AS NECESSARY. STUMPS ARE TO REMAIN IN PLACE OUTSIDE OF FENCED AREAS.
3. WHEN SPECIFICALLY NOTED, EXISTING VEGETATION IS TO BE LEFT IN PLACE TO THE GREATEST EXTENT POSSIBLE. IF, HOWEVER, ANY EXISTING TREES ARE GREATER THAN 30 FT. IN HEIGHT AND EXPECTED TO NEGATIVELY IMPACT THE PROJECT, THEY WILL BE SELECTIVELY REMOVED.
4. PANEL/ELECTRICAL LAYOUT BY OTHERS.
5. FENCE POSTS AND RACKING POSTS SHALL BE INSTALLED WITH A PILE DRIVEN METHOD TO MINIMIZE GROUND DISTURBANCE.

GRAPHIC SCALE

120 100 80 60 40 20 0 60 120 240 480
(IN FEET)
1 INCH = 120 FT.

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

KEYMAP

TOWN OF NORTH GREENBUSH PLANNING BOARD APPROVAL

REVISION	DATE	BY

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621 edpllp.com

DRAWN BY	NLZ
CHECK BY	BPO
EDP PROJECT NUMBER	12864

DRAFT: NOT FOR CONSTRUCTION

SCALE: 1" = 120'

SHEET TITLE: OVERALL SITE PLAN

SHEET: 2 of 11

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LANDS N/F OF
SUSAN D. TREPETA &
MARK S. MONACO
BOOK 4120 OF DEEDS
AT PAGE 23

LANDS N/F OF
DANIEL C. & LISA T. O'BRIEN
BOOK 2611 OF DEEDS
AT PAGE 2162

LANDS N/F OF FH II LLC
BOOK 3742 OF DEEDS AT PAGE 140

LANDS N/F OF
MARK A. WOODWARD &
SHELLY WOODWARD
BOOK 1413 OF DEEDS
AT PAGE 18

LANDS N/F OF
JAMES C. &
DEBRA F.
CONSTANZA
BOOK 3425 OF DEEDS
AT PAGE 162

LANDS N/F OF
ROBERT B. STANLEY
& KATHI L. STANLEY
ROLL 1386 OF DEEDS
AT FRAME 173

LANDS N/F OF
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JENNIFER A.
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BOOK 8296 OF DEEDS
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THOMAS C. HELLER
BOOK 3801 OF DEEDS
AT PAGE 124

LANDS N/F OF
CARL J. WALSH &
PAULETTE H. WALSH
BOOK 325 OF DEEDS
AT PAGE 2038

LANDS N/F OF
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SUSAN K. YONKERS
BOOK 572 OF DEEDS
AT PAGE 232

LANDS N/F OF
CHRISTOPHER M. &
CASSANDRA R.
HOLLAND
BOOK 7106 OF DEEDS
AT PAGE 135

PARCEL AREA = 58.10± ACRES
(96.76 ACRES TOTAL)
SBL# 145.00-2-19

PARCEL AREA = 37.91± ACRES
(96.76 ACRES TOTAL)
SBL# 145.00-2-2

TOWN OF NORTH GREENBUSH
TOWN OF EAST GREENBUSH

BEST ROAD

MORNER ROAD

SUBJECT PARCEL TAX NO. 145.-2-2
INCLUDES LAND ON SOUTH SIDE OF
MORNER RD. LANDS HAVE NOT YET
BEEN SURVEYED AND WILL BE
INCLUDED IN FUTURE SUBMISSIONS

GRAPHIC SCALE
120 100 80 60 40 20 0 60 120 240 480
(IN FEET)
1 INCH = 120 FT.

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

KEYMAP

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(518) 371-7621 edpllp.com

DRAWN BY	NLZ
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EDP PROJECT NUMBER	12864

DRAFT: NOT FOR CONSTRUCTION

SCALE: 1" = 120'

SHEET TITLE: EXISTING CONDITIONS

SHEET: 3 of 11

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HOLLAND
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AT PAGE 135

WOODS

PROPOSED
SUBDIVISION LINE

816.67'
N79°40'17"W

LOT NO. 3
PARCEL AREA = 58.10± ACRES
(96.76 ACRES TOTAL)
SBL# 145.00-8-19

LOT NO. 1
AREA =
14.05± ACRES

N27°11'13"W
675.09'

PARCEL AREA = 37.91± ACRES
(96.76 ACRES TOTAL)
SBL# 145.00-2-2

LOT NO. 2
AREA =
23.86± ACRES

260.06'
N28°53'45"E

PROPOSED
SUBDIVISION LINE

TOWN OF NORTH GREENBUSH
TOWN OF EAST GREENBUSH

BEST ROAD

MORNER ROAD

SUBJECT PARCEL TAX NO. 145.-2-2
INCLUDES LAND ON SOUTH SIDE OF
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GRAPHIC SCALE
120 100 80 60 40 20 0 60 120 240 480
(IN FEET)
1 INCH = 120 FT.

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

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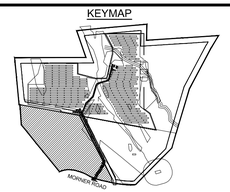

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SCALE: 1" = 120'

SHEET TITLE: SUBDIVISION PLAN

SHEET: 4 of 11

IDS N/F OF
T. STATILE &
D. TRANVAAG
BOOK 2296 OF DEEDS
AT PAGE 154

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LANDS N/F OF
CARL J. WALSH &
PAULETTE H. WALSH
BOOK 2212 OF DEEDS
AT PAGE 2038

BEST ROAD

MORNER ROAD

SHEET 6
SHEET 5

SBL# 145.00-2-2

FES#1
12" INV=164.50

FES#2
12" INV=164.00

32 LF @ 1.56%
12" ADS N-12

FES#3
12" INV=154.20

24 LF @ 0.83%
12" ADS N-12

FES#4
12" INV=154.00

15' WIDE GRAVEL ACCESS ROAD

MEDIUM VOLTAGE CABLE (TO BE DESIGNED BY OTHERS)

VEGETATED SWALE W/ CHECK DAMS

PROPOSED SUBDIVISION LOT LINE

15' WIDE GRAVEL ACCESS ROAD

APPROXIMATE LIMITS OF DISTURBANCE

TEMPORARY CONSTRUCTION STAGING AREA (±0.5 AC.).

SMA#1 – WET SWALE

50' FRONT YARD SETBACK

PROPERTY BOUNDARY

P.O.I. TO BE DESIGNED BY OTHERS

OVERFLOW SPILLWAY ELEVATION= 119.50

SITE AND GRADING PLAN LEGEND

- DENOTES SOLAR PANEL TRACKER (DESIGNED BY OTHERS)
- DENOTES FENCE
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES VEGETATED SWALE
- DENOTES FLARED END SECTION
- DENOTES RIP-RAP OVERFLOW
- —AC— DENOTES MV TRENCH (LAYOUT, TRENCH AND DESIGN BY OTHERS)
- DENOTES UTILITY POLE
- DENOTES GRAVEL ACCESS ROAD
- DENOTES PROPOSED TREE LINE
- DENOTES EXISTING TREE LINE
- DENOTES EXISTING STREAM
- DENOTES ISOLATED WETLANDS
- DENOTES ACOE WETLANDS

GRAPHIC SCALE

50 40 30 20 10 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

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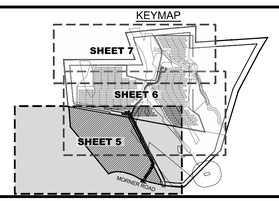

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DRAFT: NOT FOR CONSTRUCTION

SCALE: 1" = 50'

SHEET TITLE: SITE PLAN

SHEET: 5 of 11

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SHEET 7
SHEET 6

SHEET 7
SHEET 6

APPROXIMATE LIMIT OF EXISTING VEGETATION

OVERLAND FLOW DISPERSION DEVICE, TYP.

OVERFLOW SPILLWAY ELEVATION= 179.50

FES#6
12" INV=178.00

SMA#4 – WET SWALE

42 LF @ 7.14%
12" ADS N-12

WETLAND DISTURBANCE AREA WDA#2
AREA= 1,400 SF (0.03 AC)

15' WIDE GRAVEL ACCESS ROAD

FES#5
12" INV=181.00

OVERLAND FLOW DISPERSION DEVICE, TYP.

APPROXIMATE LIMITS OF DISTURBANCE

MEDIUM VOLTAGE CABLE (TO BE DESIGNED BY OTHERS)

SBL# 145.00-8-19

PERIMETER FENCE

VEGETATED SWALE W/ CHECK DAMS

APPROXIMATE LIMIT OF EXISTING VEGETATION

EQUIPMENT PAD, TYP. TO BE DESIGNED BY OTHERS. INSTALL 2.5' X 2.5' INFILTRATION TRENCH AROUND PAD.

75' SIDE YARD SETBACK

SMA#3 – WET SWALE

FES#1
12" INV=164.50

APPROXIMATE LIMITS OF DISTURBANCE

PROPOSED SUBDIVISION LOT LINE

32 LF @ 1.56%
12" ADS N-12

FES#2
12" INV=164.00

FENCED GATE ENTRANCE

VEGETATED SWALE W/ CHECK DAMS

FES#3
12" INV=154.20

24 LF @ 0.83%
12" ADS N-12

PERIMETER FENCE

TOWN OF NORTH GREENBUSH
TOWN OF EAST GREENBUSH

FES#4
12" INV=154.00

WETLAND DISTURBANCE AREA WDA#1
AREA= 608 SF (0.01 AC)

SMA#2 – WET SWALE

15' WIDE GRAVEL ACCESS ROAD

OVERFLOW SPILLWAY ELEVATION= 153.50

PROPOSED SUBDIVISION LOT LINE

VEGETATED SWALE W/ CHECK DAMS

MEDIUM VOLTAGE CABLE (TO BE DESIGNED BY OTHERS)

SHEET 6
SHEET 5

SHEET 6
SHEET 5

WETLAND DISTURBANCE NOTES:

WETLAND DISTURBANCE AREA #1 (WDA #1)
DISTURBANCE AREA= ±608 SF (0.01 AC)

WETLAND DISTURBANCE AREA #2 (WDA #2)
DISTURBANCE AREA= ±1,400 SF (0.03 AC)

TOTAL WETLAND DISTURBANCE AREA (WDA #1 + WDA #2)
TOTAL DISTURBANCE AREA = ±2,008 SF (0.05 AC)

SITE AND GRADING PLAN LEGEND

- DENOTES SOLAR PANEL TRACKER (DESIGNED BY OTHERS)
- DENOTES FENCE
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES VEGETATED SWALE
- DENOTES FLARED END SECTION
- DENOTES RIP-RAP OVERFLOW
- DENOTES MV TRENCH (LAYOUT, TRENCH AND DESIGN BY OTHERS)
- DENOTES UTILITY POLE
- DENOTES GRAVEL ACCESS ROAD
- DENOTES PROPOSED TREE LINE
- DENOTES EXISTING TREE LINE
- DENOTES EXISTING STREAM
- DENOTES ISOLATED WETLANDS
- DENOTES ACOE WETLANDS

GRAPHIC SCALE
50 40 30 20 10 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

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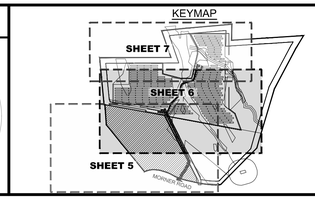

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SHEET TITLE: SITE PLAN

SHEET: 6 of 11

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SITE AND GRADING PLAN LEGEND

- DENOTES SOLAR PANEL TRACKER (DESIGNED BY OTHERS)
- DENOTES FENCE
- 268 DENOTES EXISTING CONTOUR
- 268 DENOTES PROPOSED CONTOUR
- DENOTES VEGETATED SWALE
- DENOTES FLARED END SECTION
- DENOTES RIP-RAP OVERFLOW
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- DENOTES UTILITY POLE
- DENOTES GRAVEL ACCESS ROAD
- DENOTES PROPOSED TREE LINE
- DENOTES EXISTING TREE LINE
- DENOTES EXISTING STREAM
- DENOTES ISOLATED WETLANDS
- DENOTES ACOE WETLANDS

GRAPHIC SCALE

50 40 30 20 10 0 25 50 100 200

(IN FEET)

1 INCH = 50 FT.

LANDS N/F OF
DANIEL C. & LISA T. O'BRIEN
BOOK 761 OF DEEDS
AT PAGE 2162

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SUSAN D. TREPETA &
MARK S. MONACO
4750 OF DEEDS
BOOK
AT PAGE 23

LANDS N/F OF
MARK A. WOODWARD &
SHELLY WOODWARD
1413 OF DEEDS
BOOK
AT PAGE 18

APPROXIMATE LIMITS OF DISTURBANCE

PERIMETER FENCE

75' REAR YARD SETBACK

APPROXIMATE LIMIT OF EXISTING VEGETATION

TEMPORARY WETLAND CROSSING AREA= 8,350 SF CONTRACTOR TO INSTALL TIMBER MATS FOR ACCESS DURING CONSTRUCTION

EQUIPMENT PAD, TYP. TO BE DESIGNED BY OTHERS. INSTALL 2.5' X 2.5' INFILTRATION TRENCH AROUND PAD

OVERLAND FLOW DISPERSION DEVICE, TYP.

VEGETATED SWALE W/ CHECK DAMS

15' WIDE GRAVEL ACCESS ROAD

MEDIUM VOLTAGE CABLE (TO BE DESIGNED BY OTHERS)

42 LF @ 7.14%
12" ADS N-12

FES#6
12" INV=178.00

SHEET 7
SHEET 6

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

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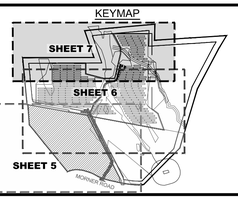

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DRAFT: NOT FOR CONSTRUCTION

SCALE: 1" = 50'

SHEET TITLE: SITE PLAN

SHEET: 7 of 11

EROSION AND SEDIMENT CONTROL PLAN LEGEND

- DENOTES EXISTING GRADE
- DENOTES GRAVEL ACCESS DRIVE
- DENOTES PROPOSED TREE LINE
- DENOTES EXISTING TREE LINE
- DENOTES LIMITS OF TREE TRIMMING
- DENOTES CONCRETE WASHOUT AREA
- DENOTES EQUIPMENT STAGING AREA
- DENOTES SOLAR PANEL TRACKER (DESIGNED BY OTHERS)
- DENOTES FENCE
- DENOTES UTILITY POLE
- DENOTES LIMITS OF DISTURBANCE FOR EACH PHASE
- SILT FENCE

EROSION SEDIMENTATION CONTROL NOTES:

1. ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE NECESSARY DURING CONSTRUCTION DEPENDING ON SITE CONDITIONS.
2. FENCE POSTS SHALL BE INSTALLED WITH A PILE DRIVEN METHOD TO MINIMIZE GROUND DISTURBANCE.
3. CONSTRUCTION SHALL NOT COMMENCE UNTIL APPROPRIATE PERMIT COVERAGE HAS BEEN OBTAINED UNDER NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES GP-0-20-001.
4. LIMITS OF DISTURBANCE TOTALS 28.39 +/– ACRES AND INCLUDES LAND CLEARING/GRUBBING, MINOR GRADING FOR ACCESS DRIVE, EQUIPMENT PADS, AND RACKING INSTALLATION, TRENCHING AND TEMPORARY E&SC MEASURES.
5. PROJECT SHALL CONSTRUCTED IN FIVE PHASES SUCH THAT NO MORE 5 ACRES WILL BE DISTURBED AT ANY ONE TIME.
   - 5.1. PHASE 1 – 4.91 ACRES OF DISTURBANCE: CLEARING & GRUBBING OF EXISTING VEGETATION, INSTALLATION OF STAGING AREA, SITE DRIVEWAY, SOUTHERN PANELS AND ASSOCIATED FENCE.
   - 5.2. PHASE 2 – 4.91 ACRES OF DISTURBANCE: CLEARING & GRUBBING OF EXISTING VEGETATION, INSTALLATION OF PANELS AND ASSOCIATED FENCE.
   - 5.3. PHASE 3 – 4.13 ACRES OF DISTURBANCE: CLEARING & GRUBBING OF EXISTING VEGETATION, INSTALLATION OF PANELS AND ASSOCIATED FENCE.
   - 5.4. PHASE 4 – 4.83 ACRES OF DISTURBANCE: CLEARING & GRUBBING OF EXISTING VEGETATION, INSTALLATION OF PANELS AND ASSOCIATED FENCE.
   - 5.5. PHASE 5 – 4.85 ACRES OF DISTURBANCE: CLEARING & GRUBBING OF EXISTING VEGETATION, INSTALLATION OF PANELS AND ASSOCIATED FENCE.
   - 5.6. PHASE 6 – 4.76 ACRES OF DISTURBANCE: CLEARING & GRUBBING OF EXISTING VEGETATION, INSTALLATION OF PANELS AND ASSOCIATED FENCE.
6. EACH PHASE SHALL BE TEMPORARILY STABILIZED BEFORE PROCEEDING TO A SUBSEQUENT PHASE.
7. THE TEMPORARY E&SC PLAN MEASURES SHOWN HEREIN, SHALL BE PUT IN PLACE AT THE BEGINNING OF PHASE 1 AND REMOVED UPON FINAL STABILIZATION OF THE SITE.
8. CONSTRUCTION FO THE PANEL ARRAYS SHALL BE COMPLETED IN SUCH A WAY THAT NULLIFIES DISTURBANCE AND/OR COMPACTION OF THE IN–SITU LAND COVER (I.E. TRACKED VEHICLE TRAVELING IN AND OUT OF ROWS IS RECOMMENDED). EXISTING GROUND COVER IN THE AREA OF THE PANEL ARRAY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
9. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS DETAILED IN THE SEEDING PLAN.
10. THE TEMPORARY PARKING AND STAGING AREA FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL CONSIST OF STONE DUST OR A SIMILAR MATERIAL. UPON COMPLETION OF CONSTRUCTION, THE STONE DUST, OR SIMILAR, SHALL BE REMOVED UP TO BUT NOT INCLUDING REMOVAL OF THE COVERED TOPSOIL. THE AREA SHALL BE SEEDED AND MULCHED ACCORDING TO THE SEED AND MULCH SPECIFICATIONS DETAILED ON THE ES&C NOTES SHEET.
11. AREA SHALL BE SEEDED OR OVER SEEDED WITH ERNST CONSERVATION SEEDS CROWNVTECH SEEDING MIX (NATURALIZED). IN THE EVENT OF DISTURBANCE, THE AREA SHALL BE STABILIZED WITH A ROLLED EROSION AND SEDIMENT CONTROL PRODUCT, EAST COAST EROSION CONTROL DOUBLE NET STRAW BIODEGRADABLE ROLLED EROSION CONTROL PRODUCT (ECS–28), OR EQUAL, AND SEEDED ACCORDING TO THE SEED AND MULCH NOTES.

GRAPHIC SCALE

120 100 80 60 40 20 0 60 120 240 480

(IN FEET)
1 INCH = 120 FT.

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

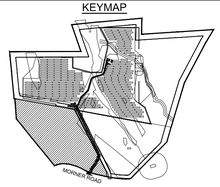
APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

KEYMAP



TOWN OF NORTH GREENBUSH PLANNING BOARD APPROVAL

REVISION	DATE	BY

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621 edpllp.com

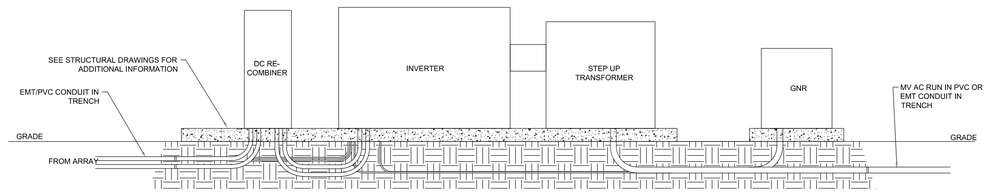
DRAWN BY	NLZ
CHECK BY	BPO
EDP PROJECT NUMBER	12864

DRAFT: NOT FOR CONSTRUCTION

SCALE: 1" = 120'

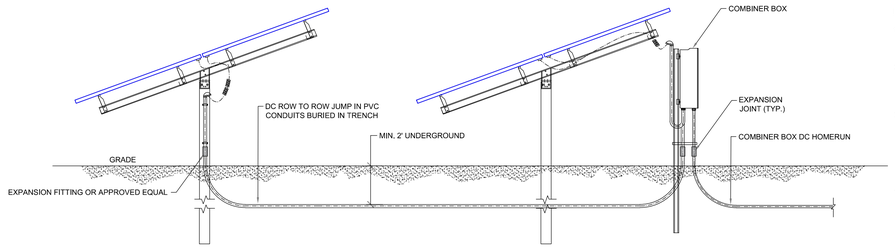
SHEET TITLE: EROSION & SEDIMENT CONTROL PLAN

SHEET: 8 of 11



1/9 EQUIPMENT PAD WIRING MANAGEMENT

NOT TO SCALE

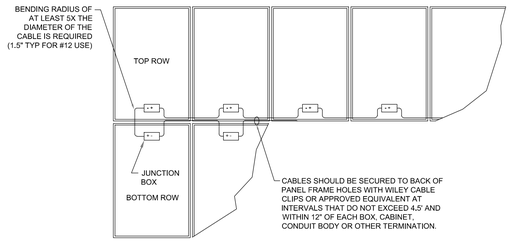


NOTE:

1. ELECTRICIANS TO PROVIDE CONDUIT FITTINGS, EXPANSION FITTINGS, AND PROTECTIVE BUSHINGS AS REQUIRED
2. A WIRE MANAGEMENT TRAY OR APPROVED EQUIVALENT SHALL BE PROVIDED TO HOUSE THE EXPOSED DC CONDUCTORS AT THE COMBINER BOX RACKING STRUCTURE
3. SPLIT-WIRE LOOM SHALL BE PROVIDED WHERE CABLES COME IN CONTACT WITH SHARP EDGES, IN CASE OF LARGER GAPS BETWEEN RACKING TABLES, AND FOR ADDITIONAL PROTECTION OF EXPOSED PV WIRES AT THE COMBINER BOX MOUNTING STRUCTURE
4. COMMUNICATION CONDUITS SHALL BE PLACED AT LEAST 1' FROM EITHER AC OR DC CIRCUITS IN TRENCH

2/9 ROW TO ROW JUMPING TRENCH

NOT TO SCALE

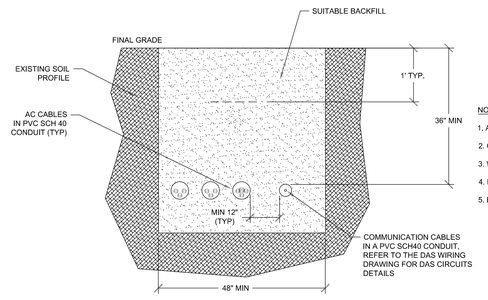


NOTE:

1. PANEL HOME RUNS WIRES SHOULD BE ROUTED INSIDE Z PURLIN.
2. REFER TO THE RACKING & PANEL INSTALLATION MANUAL FOR INSTRUCTIONS.
3. USE J-HOOKS, CABLE HANGERS OR APPROVED EQUIVALENT AS REQUIRED.

3/9 PANEL WIRING MANAGEMENT DETAIL – HALF RACK

NOT TO SCALE

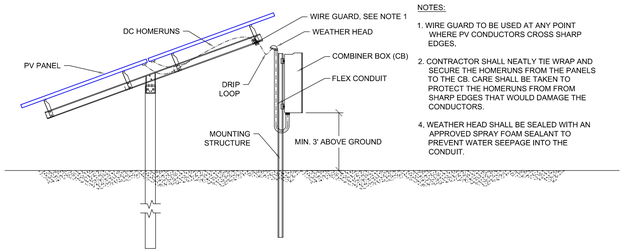


NOTES:

1. ALL AC CONDUITS TO BE BURIED AT A MINIMUM OF 3', ALL DC CONDUITS TO BE BURIED AT A MINIMUM OF 2'.
2. COMMUNICATION CABLES TO BE A MINIMUM OF 12" AWAY FROM DC AND AC CABLES.
3. WARNING TAPE TO BE METALLIC WITH THE PHRASE "CAUTION: BURIED ELECTRICAL LINES"
4. BACKFILL TO BE FREE FROM ANY ROCKS OR OTHER DELETERIOUS OBJECTS THAT ARE 3/4" IN DIAMETER OR GREATER.
5. ELECTRICIANS TO PROVIDE MATCHING FITTINGS AND EXPANSION COUPLINGS BY THE SAME MANUFACTURER AS THE CONDUIT

4/9 MEDIUM VOLTAGE TRENCH

NOT TO SCALE

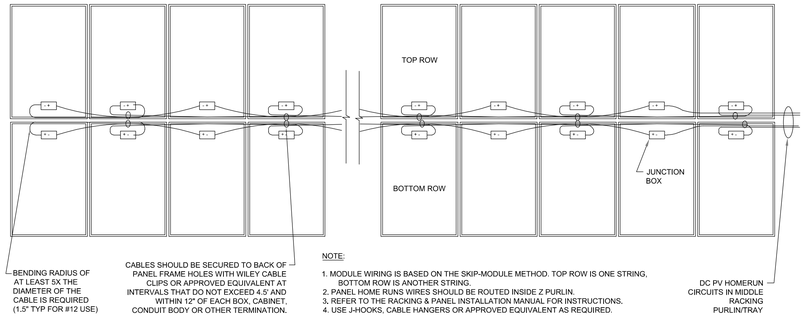


NOTES:

1. WIRE GUARD TO BE USED AT ANY POINT WHERE PV CONDUCTORS CROSS SHARP EDGES.
2. CONTRACTOR SHALL NEATLY TIE WRAP AND SECURE THE HOMERUNS FROM THE PANELS TO THE CB. CARE SHALL BE TAKEN TO PROTECT THE HOMERUNS FROM FROM SHARP EDGES THAT WOULD DAMAGE THE CONDUCTORS.
4. WEATHER HEAD SHALL BE SEALED WITH AN APPROVED SPRAY FOAM SEALANT TO PREVENT WATER SEEPAGE INTO THE CONDUIT.

5/9 DC CONDUCTORS WIRE MANAGEMENT

NOT TO SCALE

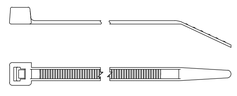


NOTE:

1. MODULE WIRING IS BASED ON THE SKIP-MODULE METHOD. TOP ROW IS ONE STRING, BOTTOM ROW IS ANOTHER STRING.
2. PANEL HOME RUNS WIRES SHOULD BE ROUTED INSIDE Z PURLIN.
3. REFER TO THE RACKING & PANEL INSTALLATION MANUAL FOR INSTRUCTIONS.
4. USE J-HOOKS, CABLE HANGERS OR APPROVED EQUIVALENT AS REQUIRED.

6/9 PANEL WIRING MANAGEMENT DETAIL

NOT TO SCALE

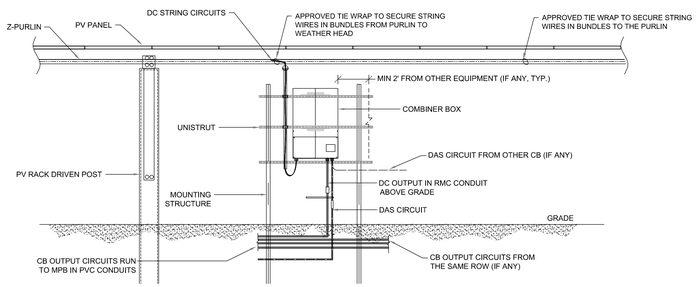


NOTE:

1. FOR CABLE MANAGEMENT PURPOSES, POLYACETAL OR ETHLENTERALFLUORINEETHYLENE TEFZEL ZIP TIES WITH A MIN TENSILE STRENGTH OF 200 NEWTONS TO BE USED WHEREVER APPLICABLE. ZIP TIES TO BE SUBMITTED FOR REVIEW.

7/9 STANDARD CABLE TIE

NOT TO SCALE

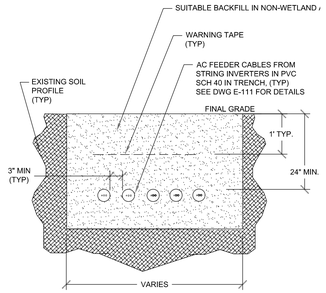


8/9 EQUIPMENT MOUNTAIN DETAIL FRONT VIEW

NOT TO SCALE

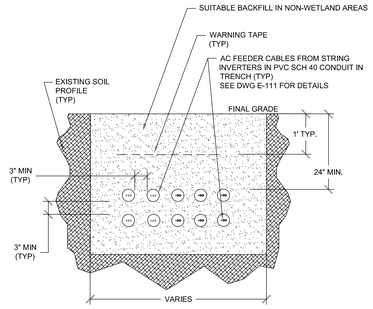
NOTES:

1. SOLAR PANEL, TRENCHING AND ELECTRICAL COMPONENT DETAILS ARE SCHEMATIC IN NATURE AND ARE SHOWN TO REPRESENT A GENERAL PROCESS; THE DETAILS ARE NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES.
2. ALL DETAILS ON THIS SHEET HAVE BEEN PROVIDED BY OTHERS. FOR ELECTRICAL, WIRING AND SPECIFIC SOLAR CONSTRUCTION DETAILS, PLEASE SEE ELECTRICAL DRAWINGS.
3. AC TRENCH LOCATION/LAYOUT PROVIDED BY OTHERS. FOR DETAIL ON INSTALLATION, SEE DRAWINGS BY OTHERS.



9/9 AC FEEDER TRENCH SINGLE LAYER

NOT TO SCALE



10/9 AC FEEDER TRENCH TWO LAYERS

NOT TO SCALE

GENERAL NOTES:

- THE ENVIRONMENTAL DESIGN PARTNERSHIP IS NOT RESPONSIBLE FOR ANY CONSTRUCTION WORK PERFORMED PRIOR TO FINAL APPROVAL OF ALL PLANS AND SECURING OF ALL PERMITS AND FILING OF ALL MAPS.
- CONTRACTOR TO ARRANGE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL DESIGN PARTNERSHIP AND MUNICIPALITY PRIOR TO CONSTRUCTION.
- FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP AND THE MUNICIPALITY'S ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR IS TO VERIFY THAT ALL NECESSARY WORK PERMITS AND EASEMENTS ARE IN PLACE PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND TAKE ALL SPECIAL TEMPORARY AND PERMANENT PRECAUTIONS NECESSARY TO ENSURE A STABLE AND SECURE JOB.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY TOWN, COUNTY OR STATE HIGHWAY CUT PERMITS.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND EASEMENTS PRIOR TO CONSTRUCTION AND BECOME FAMILIAR WITH THE CONDITIONS OF EACH PERMIT.
- THE CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS, AND DRIVEWAYS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RIGHT-OF-WAY PROPERTY LINES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES SUCH AS GAS, POWER, TELEPHONE, CABLE TV, WATER, SEWER, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- AS PER NYS INDUSTRIAL CODE 53: CONTRACTOR TO CALL DIG SAFELY NEW YORK, INC. AT 1-800-962-7962 TO LOCATE BURIED CABLES OR OTHER UNDERGROUND UTILITIES NO LESS THAN TWO OR MORE THAN TEN WORKING DAYS PRIOR TO DIGGING, DRILLING, EXCAVATING, DRIVING POSTS, ETC.
- CONTRACTOR MUST VERIFY THE ACCEPTABILITY OF ALL CONSTRUCTION MATERIALS WITH OWNER PRIOR TO ORDERING.
- ANY EXISTING STORM SEWERS AND UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL HAVE THEIR EXACT LOCATION CHECKED AT THE SITE BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING PIPE INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES WHICH RESULT MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, GRADES, PIPE INVERTS AND ELEVATIONS AND REVIEW WITH CONSULTANT BEFORE CONSTRUCTION.
- ALL EXCAVATION TO MEET OSHA AND NYS DOT SAFETY REGULATIONS AND STANDARDS.
- THE CONTRACTOR SHALL FILL IN, AND RE-EXCAVATE, AS NECESSARY TO RESUME WORK, ANY EXCAVATIONS OR TRENCHES AT LOCATIONS AND AS OFTEN AS MAY BE REQUIRED TO ENSURE PROTECTION OF THE WORK, ANY ADJACENT EXISTING FACILITIES, OR THE PUBLIC.
- THE CONTRACTOR SHALL CLEAN UP THE JOB SITE DAILY BEFORE LEAVING THE JOBSITE. ALL RUBBISH MUST BE CLEANED UP AND CONSTRUCTION EQUIPMENT MUST BE PROPERLY TAKEN CARE OF AND STORED AT THE END OF THE DAY.
- CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY DURING CONSTRUCTION.
- THE CONTRACTOR SHALL FURNISH ALL FLAGMEN AND SIGNS, DELINEATORS, BARRIERS, AND DEVICES NECESSARY FOR TRAFFIC CONTROL DURING ANY EARTH-MOVING OPERATION OR OTHER CONSTRUCTION ACTIVITY WHICH INVOLVES PUBLIC HIGHWAYS.
- ALL TRAFFIC SIGNS, CONTROL DEVICES AND INFORMATIONAL ITEMS, IF DISTURBED DURING CONSTRUCTION WITHIN CONTRACT LIMIT LINES, SHALL BE RELOCATED AS PER APPROVAL OF MUNICIPALITY.
- RESTORATION OF PAVEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPLACE AND RESTORE PAVEMENT WITH MATERIAL TO A CONDITION EQUAL TO OR BETTER THAN PRECONSTRUCTION CONDITIONS. ALL PAVEMENT AND RIGHT-OF-WAY RESTORATION WORK TO BE DONE TO THE SATISFACTION OF THE STATE, COUNTY OR LOCAL MUNICIPAL HIGHWAY DEPARTMENT.
- CONTRACTOR SHALL RESTORE ALL LAWNS, DRIVEWAYS, WALKS, WALLS, CURBS, FENCES, ETC. TO A CONDITIONS AT LEAST AS GOOD AS THEY WERE BEFORE BEING DISTURBED.
- POSTS, MAILBOXES, ETC. SHALL BE PROTECTED, OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- IT MAY BE NECESSARY TO TIE OR HOLD BACK UTILITY POLES DURING CONSTRUCTION. THIS SHOULD BE ACCOMPLISHED IN COOPERATION WITH UTILITY COMPANIES.
- NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENTS OR R.O.W. AS SHOWN.
- CONTRACTOR TO COMPLY WITH ALL OSHA AND OTHER STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION (PROPER SHORING, ETC.).
- ALL SITE WORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. WHERE ACCESS OR WORK OUTSIDE OF PROPERTY BOUNDARY IS NECESSARY, THE PERMISSION OF ADJOINING PROPERTY OWNER MUST FIRST BE OBTAINED.
- WHERE APPROPRIATE, SITE LAYOUT AND GRADING WORK SHALL BE COMPLETED BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR. LANDSCAPE ARCHITECT SHALL APPROVE ALL LAYOUT WORK PRIOR TO CONSTRUCTION.
- CONTRACTOR TO NOTIFY ENGINEER AFTER ROUGH GRADING IS COMPLETED. FINISH GRADES TO BE ADJUSTED IN THE FIELD AFTER INITIAL GRADING IS COMPLETED. ALL CHANGES IN PROPOSED GRADES TO BE APPROVED BY OWNER AND ENGINEER.
- ALL AREAS OF THE SITE WHICH ARE DISTURBED AND NOT PAVED SHALL BE TOPSOILED AND SEEDED.
- ALL ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO SOLAR PANELS, UNDERGROUND CABLING, EQUIPMENT PADS, AND ELECTRICAL CONNECTIONS ARE TO BE CONSTRUCTED PER THE ELECTRICAL DRAWINGS. IT IS NOT THE INTENT OF THESE DOCUMENTS TO ADDRESS SUCH DETAILS, WHICH ARE SHOWN ONLY FOR THE PURPOSE OF CONTINUITY BETWEEN THE SITE PLAN AND THE ELECTRICAL DRAWINGS.
- ALL STORM SEWER PIPE TO BE DUAL WALL HIGH-DENSITY POLYETHYLENE WITH SMOOTH INTERIOR AND ANNULAR CORRUGATED EXTERIOR. PIPE JOINTS ARE TO BE SILT-TIGHT WITH EITHER INTEGRAL BELL & SPIGOT JOINTS WITH RUBBER GASKETS MEETING ASTM F477, SILT-TIGHT PREMIUM BAND COUPLERS WITH RUBBER GASKETS OR STANDARD BAND COUPLERS WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC 4-FEET WIDE AND OVERLAPPED AT EACH END.
- THE INFORMATION REPRESENTED WITHIN THESE DOCUMENTS DOES NOT IMPLY ANY CONTRACT WITH, OR OBLIGATION FOR, PERFORMING ANY OR ALL TOWN, COUNTY, OR STATE REQUIRED INSPECTIONS DURING THE COURSE OF CONSTRUCTION OR PURSUANT TO OBTAINING CERTIFICATE OF OCCUPANCY. SUCH INSPECTION SERVICES, IF PERFORMED BY THIS OFFICE, SHALL BE ESTABLISHED BY SEPARATE CONTRACT.
- IN THE EVENT THAT THE CONSTRUCTION STAKEOUT AND INSPECTION OF THE WORK IS NOT PERFORMED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP (EDP), EDP WILL NOT BE HELD RESPONSIBLE FOR ANY ERRORS, OMISSIONS, COSTS, EXPENSES OR LIABILITY OF WHATEVER KIND AND NATURE RESULTING FROM FIELD CHANGES AND/OR ERRORS WHICH EDP WOULD OTHERWISE HAVE HAD AN OPPORTUNITY TO CHECK AND CORRECT WERE THEY IN A POSITION TO CONTROL THE PROJECT THROUGH STAKEOUT AND INSPECTION.
- CLAIMS MADE AGAINST CONSULTANT FOR SURVEY STAKEOUT ERRORS WILL BE HONORED ONLY IF CONSULTANT IS NOTIFIED FOR VERIFICATION OF THE ERROR IMMEDIATELY UPON DISCOVERY AND BEFORE ANY CONTROL STAKES ARE DISTURBED. IF, AFTER VERIFICATION, IT IS DETERMINED THAT NO STAKEOUT ERROR OCCURRED, THE CLIENT SHALL REIMBURSE THE CONSULTANT FOR ADDITIONAL EXPENSES INCURRED FOR SUCH VERIFICATION.
- ALL ERRORS, OMISSIONS AND DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENVIRONMENTAL DESIGN PARTNERSHIP IMMEDIATELY UPON DISCOVERY, OTHERWISE, THE ENVIRONMENTAL DESIGN PARTNERSHIP WILL ACCEPT NO RESPONSIBILITY.
- INSPECTION SERVICES BY THE ENVIRONMENTAL DESIGN PARTNERSHIP ARE NOT SUPERVISORY. ACCORDINGLY, THE ENVIRONMENTAL DESIGN PARTNERSHIP CAN NEITHER GUARANTEE THE PERFORMANCE OF THE CONSTRUCTION CONTRACTS BY CONTRACTORS NOR ASSUME RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO FURNISH AND PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

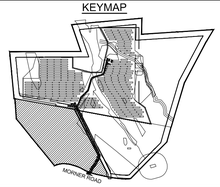
APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

KEYMAP



TOWN OF NORTH GREENBUSH PLANNING BOARD APPROVAL

REVISION	DATE	BY

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621 edpllp.com

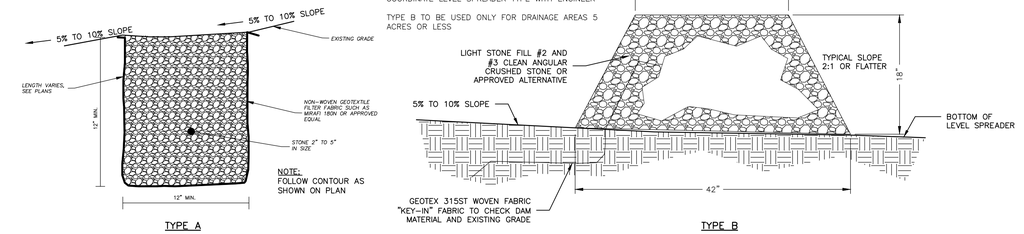
DRAWN BY	NLZ
CHECK BY	BPO
EDP PROJECT NUMBER	12864

DRAFT: NOT FOR CONSTRUCTION

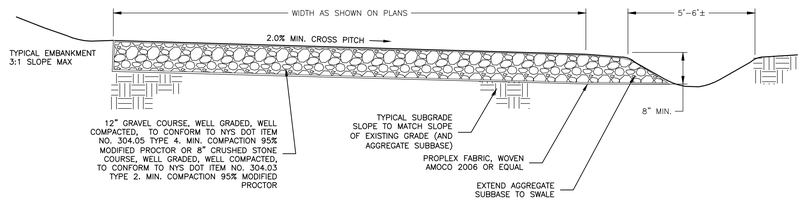
SCALE: AS NOTED

SHEET TITLE: SITE DETAILS

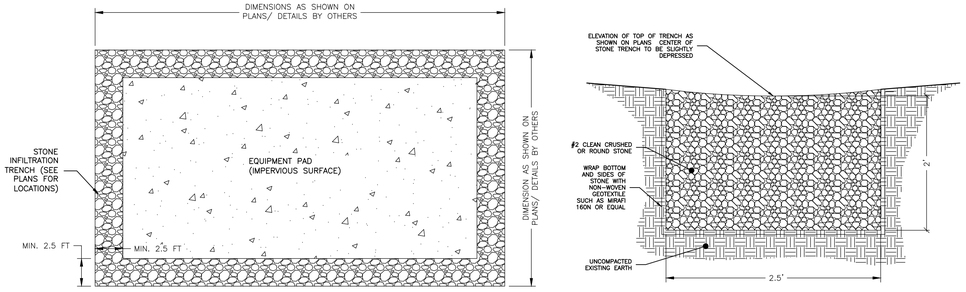
SHEET: 9 of 11



1/10 FLOW DIFFUSER LEVEL SPREADER
NOT TO SCALE



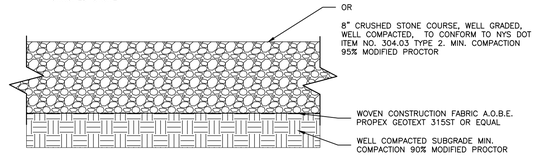
2/10 GRAVEL ACCESS DRIVE SECTION WITH SWALE
NOT TO SCALE



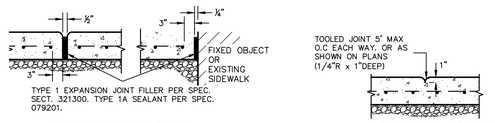
3/10 INFILTRATION TRENCH PLAN VIEW
NOT TO SCALE

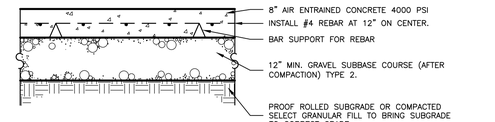
NOTES:

1. IF UNSTABLE SUBGRADE IS ENCOUNTERED DURING CONSTRUCTION ENGINEER MUST BE NOTIFIED IMMEDIATELY.
2. SUBGRADE MUST BE PROOF-ROLLED PRIOR TO PLACEMENT OF CRUSHED STONE.



4/10 NON-PERVIOUS GRAVEL SECTION
NOT TO SCALE

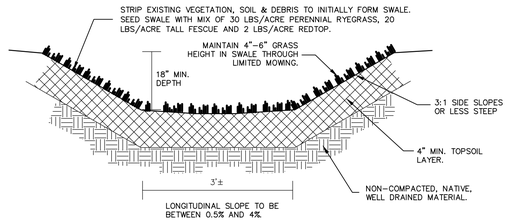




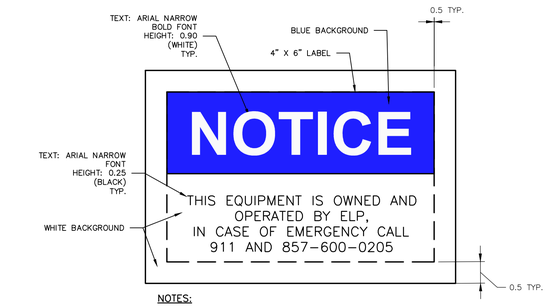
NOTES:

1. ALL EXPOSED SURFACED SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL BE PROVIDE MAX 1-1/2" WIDE SMOOTH TROWEL FINISH AT JOINT.
2. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20' ON CENTER, OR AS INDICATED ON PLANS.
3. JOINTS SHALL NOT BE SAW-CUT.
4. PLACEMENT AND FORMING OF ALL JOINTS SHALL BE IN CONFORMANCE WITH ACI COMMITTEE REPORT 332 R-84
5. CONTRACTOR TO SUBMIT JOINT LAYOUT PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.
6. ALL EXPOSED SURFACES SHALL BE SLOPED SUFFICIENTLY TO SHED WATER (1/4" PER FOOT STANDARD) CLASS B BROOM FINISH ALIGN JOINTS WITH CURBING OR AT 5 FT. INTERVALS (SEE NOTE).

5/10 CONCRETE PAD
NOT TO SCALE



6/10 VEGETATED SWALE
NOT TO SCALE



NOTES:

1. TO BE POSTED AT ENTRANCES

7/10 NOTICE SIGN
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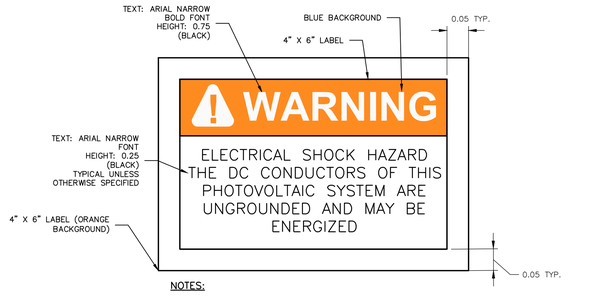


NOTES:

1. TO BE POSTED AT ENTRANCES

8/10 WARNING SIGN DETAIL
NOT TO SCALE

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

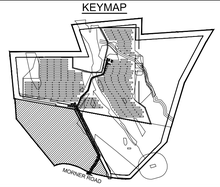
APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

FEBRUARY 1, 2022

KEYMAP



TOWN OF NORTH GREENBUSH PLANNING BOARD APPROVAL

REVISION	DATE	BY

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621 edpllp.com

DRAWN BY	NLZ
CHECK BY	BPO
EDP PROJECT NUMBER	12864

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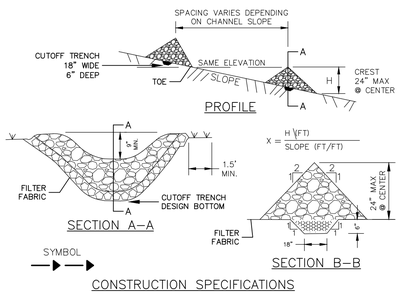
SCALE: AS NOTED

SHEET TITLE: SITE DETAILS

SHEET: 10 of 11

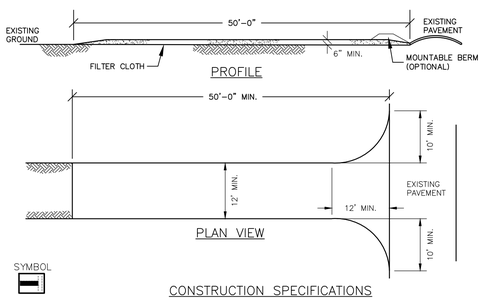


CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN..
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOW OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LONER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA 2 ACRES.

1/11 CHECK DAM

NOT TO SCALE

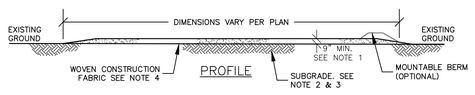


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" CRUSHED STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS EFFECTIVE BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX(6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE.
6. 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.
5. WASHING – WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

2/11 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



NOTES:

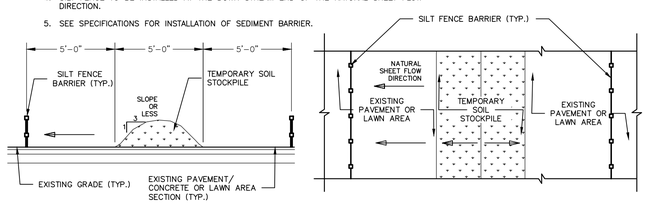
1. CONSTRUCTION STAGING ARE TO BE 9" GRAVEL COURSE, WELL GRADED, WELL COMPACTED, TO CONFORM TO NYS DOT ITEM NO. 304.05 TYPE. MIN. COMPACTION 95% MODIFIED PROCTOR OR 9" CRUSHED STONE COURSE, WELL GRADED WELL COMPACTED, TO CONFORM TO NYS DOT ITEM NO. 304.03 TYPE 2 MIN. COMPACTION 95% MODIFIED PROCTOR
2. SUBGRADE MUST BE PROOF-ROLLED PRIOR TO PLACEMENT OF CRUSHED STONE.
3. WELL COMPACTED SUBGRADE MIN. COMPACTION 90% MODIFIED PROCTOR
4. WOVEN CONSTRUCTION FABRIC TO BE A.O.B.E. PROPEX GEOTEXT 315ST OR EQUAL
5. TEMPORARY STAGING AREA TO BE INSTALLED WITHOUT DISTURBANCE TO EXISTING GROUND

3/11 TEMPORARY STAGING AREA

NOT TO SCALE

INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALE BE 1:3.
3. UPON COMPLETION OF SOIL STOCKPILING EACH PILE SHALL BE SURROUNDED WITH EITHER SEDIMENT BARRIER OR SAN AND/OR GRAVEL BAG, THEN STABILIZED WITH VEGETATION OR COVERED,
4. SILT FENCE TO BE INSTALLED AT THE DOWN STREAM END OF THE NATURAL SHEET FLOW DIRECTION.
5. SEE SPECIFICATIONS FOR INSTALLATION OF SEDIMENT BARRIER.



4/11 SOIL STOCKPILE

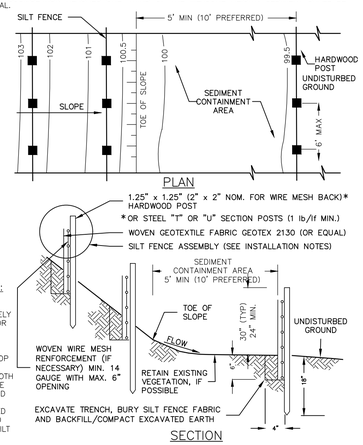
NOT TO SCALE

SILT FENCE GENERAL NOTES:

1. SILT FENCE SHALL BE PLACED A MINIMUM OF 5 FT. FROM TOE OF SLOPE, 10 FT. PREFERRED, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
2. POSTS MAY BE 1.25"x1.25" (MINIMUM) HARDWOOD, TYPICALLY. FOR WIRE MESH BACK USE 2"x2" NOM. HARDWOOD, OR STEEL "T" OR "U" POSTS (1lb per lf). SILT FENCE SHALL BE WOVEN GEOTEXTILE FABRIC(GEOTEX 2130 OR EQUAL).
3. SILT FENCE ASSEMBLIES MAY HAVE 4 FT. OR 6 FT. POST SPACING, AND MAY OR MAY NOT HAVE MESH REINFORCEMENT. SENSITIVE AREAS TO BE PROTECTED MAY NEED TO BE REINFORCED BY USING HEAVY WIRE FENCING FOR ADDED SUPPORT TO PREVENT COLLAPSE.
4. THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
5. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE PLACED ON A SLOPE ARE:

SLOPE STEEPNESS	MAXIMUM LENGTH (ft.)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

6. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ¼ ACRE PER 100 FEET OF FENCE, WITH MAXIMUM PONDING DEPTH OF 1.5 FEET BEHIND THE FENCE; AND EROSION WOULD OCCUR IN THE FORM OF SHEET EROSION; AND THERE IS NO CONCENTRATION OF WATER FLOWING TO THE BARRIER.
7. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS, AFTER EACH RAINFALL OF .5" OR MORE WITHIN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
8. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-THIRD OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.

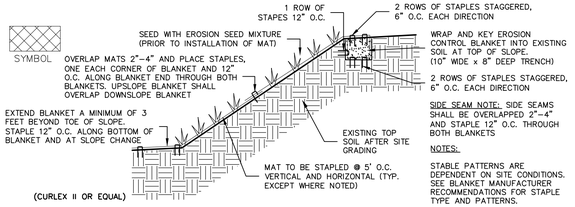


SILT FENCE INSTALLATION NOTES:

1. GEOTEXTILE FABRIC AND WOVEN WIREMESH TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACES EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED.
4. MAINTENANCE SHALL BE PERFFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

5/11 SILT FENCE

NOT TO SCALE



6/11 EROSION CONTROL BLANKET

NOT TO SCALE

EROSION AND SEDIMENT CONTROL AND STABILIZATION MEASURES, MAINTENANCE AND INSPECTION PRACTICES:

1. THE FOLLOWING IS A LIST OF EROSION AND SEDIMENT CONTROLS TO BE USED ON THIS SITE DURING CONSTRUCTION:

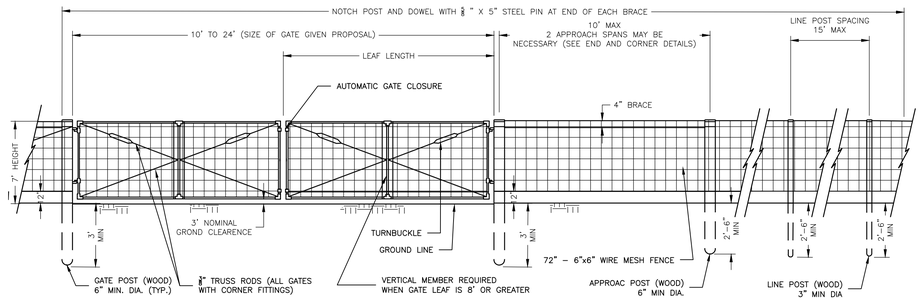
   A) STABILIZATION PRACTICES FOR THIS SITE INCLUDE:
   - LAND CLEARING ACTIVITIES SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND SHALL PROGRESS AS EARTHWORK IS NEEDED
   - FREQUENT WATERING OF EXCAVATION AND FILL AREAS TO MINIMIZE WIND EROSION DURING CONSTRUCTION.
   - USE OF STABILIZATION FABRIC FOR ALL SLOPES HAVING A SLOPE OF 1V:2H OR GREATER AND FILL SLOPES 1V:3H OR GREATER.
   - PERMANENT SEEDING AND PLANTING OF ALL UNPAVED AREAS USING THE HYDROMULCHING GRASS SEEDING TECHNIQUE.

   B) STRUCTURAL PRACTICES FOR THIS SITE INCLUDE:
   - PERIMETER PROTECTION USING SILT FENCES
   - INLET PROTECTION AND OUTLET PROTECTION USING SILT FENCES
   - STORM SEWER, CURBS AND GUTTERS
   - STABILIZED CONSTRUCTION EXIT POINTS
   - STORMWATER DETENTION PONDS (WHICH MAY ALSO SERVE AS A TEMPORARY SEDIMENT BASIN)

2. THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:
   A) ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY.
   B) ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
   C) BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCES / STRAW BARRIERS WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
   D) SILT FENCES / STRAW BARRIERS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE SECURELY IN THE GROUND.
   E) THE SEDIMENT BASIN, IF PRESENT, WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 50 PERCENT OF THE DESIGN CAPACITY.
   F) TEMPORARY AND PERMANENT SEEDING AND ALL OTHER STABILIZATION MEASURES WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
   G) A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORT FORMS TO BE COMPLETED BY THE INSPECTOR ARE INCLUDED IN THIS SWPPP.
   H) THE JOB SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SELECTING AND TRAINING THE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR THESE INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT INSPECTION AND MAINTENANCE REPORTS.
   I) PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE APPROPRIATE INSTRUCTION FROM THE JOB SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS THAT ARE USED ONSITE IN GOOD WORKING ORDER. THEY WILL ALSO BE TRAINED IN THE COMPLETION OF, INITIATION OF ACTIONS REQUIRED BY, AND THE FILING OF THE INSPECTION FORMS. DOCUMENTATION OF THIS PERSONNEL TRAINING WILL BE KEPT ON SITE WITH THE SWPPP.
   J) DISTURBED AREAS AND MATERIALS STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING STORMWATER SYSTEMS.
   K) REPORT TO THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION WITHIN 24 HOURS ANY NONCOMPLIANCE WITH THE SWPPP THAT WILL ENDANGER PUBLIC HEALTH OR THE ENVIRONMENT. FOLLOW UP WITH A WRITTEN REPORT WITHIN 5 DAYS OF THE NONCOMPLIANCE EVENT.

ADDITIONAL EROSION CONTROL AND GRADING NOTES:

1. **MINIMAL EROSION CONTROL DEVICES ARE ILLUSTRATED ON SITE PLAN IN A SCHEMATIC MANNER BASED ON NY STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL. IT WILL BE NECESSARY TO ADJUST THE ACTUAL LOCATION AND QUANTITY OF EROSION CONTROL DEVICES DEPENDING UPON FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE MEASURES AS REQUIRED TO PROTECT THE SITE.**
2. SLOPES SHALL TYPICALLY BE GRADED AT A MAXIMUM OF 3:1 (3 HORIZ. 1 VERT.) WITHIN ALL CUT OR FILL AREAS, UNLESS OTHERWISE DESIGNATED ON PLANS.
3. SEED SHALL BE A COMMERCIALLY AVAILABLE MIXTURE OF PERENNIAL RYE AND UTILITY GRADE FESCUE. PERCENTAGE OF PERENNIAL RYE SHALL NOT EXCEED 50%.
4. SEEDED AREAS SHALL BE FULLY COVERED WITH A LEAN STRAW OR MULCH MATERIAL. IF ORDERED BY THE ENGINEER OR MUNICIPALITY, A BIODEGRADABLE NETTING (E.G., EXCELSIOR BLANKET, COIR GEOTEXTILE) SHALL BE ANCHORED OVER SEEDED AREAS WHICH DEMONSTRATE "RILLING" OR OTHER EROSION PROCESSES.
5. TOPSOIL AND SEED SHALL BE REAPPLIED TO ANY AREAS WHICH FAIL TO ESTABLISH AS A RESULT OF INITIAL APPLICATION.
6. SILT FENCE BARRIERS SHALL BE PLACED WITHIN ALL AREAS OF EXPOSED SLOPES TO CONTROL SOIL EROSION DURING AND AFTER CONSTRUCTION.
7. ALL STORM OUTFALLS SHALL RECEIVE RIP RAP IMMEDIATELY UPON INSTALLATION (AS PER PLAN).
8. EROSION CONTROL (ERO-MAT) OR APPROVED EQUAL, SHALL BE INSTALLED ON ALL 2:1 SLOPES: AN ORGANIC FIBER PROTECTIVE MAT, HALF INCH LAYER OF CHOPPED STRAW, KNITTED INTO A RUGGED MAT WITH A THIN NETTING OF PHOTODEGRADABLE POLYPROPYLENE. SECURE MAT TO SLOPE WITH 6" STEEL U-SHAPED STABLES, 2 STAPLES PER SQUARE YARD, OR AS PER MANUFACTURER'S INSTRUCTIONS.
9. STREAM REACHES ON-SITE AND DOWNSTREAM OF CONSTRUCTION SHALL NOT HAVE SUBSTANTIAL VISIBLE CONTRAST RELATIVE TO COLOR, TASTE, ODOR, TURBIDITY AND SEDIMENT DEPOSITION FROM THE REACHES UPSTREAM OF THE CONSTRUCTION ACTIVITY.
10. VEHICULAR ACCESS POINTS SHALL BE MONITORED AND INSPECTED AT THE SAME FREQUENCY AS EROSION CONTROL FEATURES TO INSURE THAT DEPOSITS OF SAND, SILT OR OTHER MATERIAL IS NOT BEING DEPOSITED ON PUBLIC ROADWAYS. IN THE EVENT ANY SIGNIFICANT DEPOSITS OCCUR THEY SHALL BE CLEANED UP IMMEDIATELY.
11. KEEP ALL CONSTRUCTION EQUIPMENT, TOPSOIL STOCKPILES AND ANY TEMPORARY/PERMANENT GRAVEL AREAS OFF FUTURE SEPTIC AREAS.



7/11 SOLAR FIELD FENCE

NOT TO SCALE

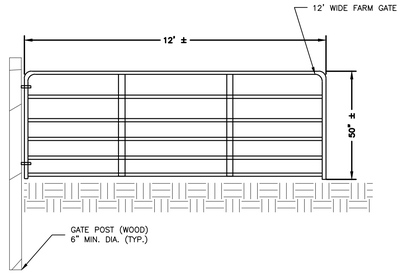
SEQUENCE OF CONSTRUCTION ACTIVITIES:

1. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN.
2. NSTALL PERIMETER SILT FENCES AND TEMPORARY SEDIMENT BASIN IN THE LOCATIONS SHOWN AND OTHER LOCATIONS AS NECESSARY TO STABILIZE THE SITE.
3. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
4. FREQUENT WATERING OF THE EXCAVATION AND FILL AREAS SHALL BE DONE TO MINIMIZE WIND EROSION.
5. COMMENCE SITE GRADING AND INSTALLATION OF STORMWATER MANAGEMENT FEATURES.
6. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
7. INSTALL PROTECTIVE SILT FENCES / BARRIERS AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
8. TRENCHING FOR UNDERGROUND CONDUITS
9. INSTALLATION OF EQUIPMENT PAD(S)
10. PILE INSTALLATION OF SOLAR RACKING SYSTEM AND SOLAR PANELS.
11. INSTALLATION OF ABOVE-GROUND WIRING.
12. INSTALLATION OF OVERLAND FLOW DISPERSION DEVICES.
13. TOPSOIL REPLACEMENT, FINAL GRADING AND SEEDING AND PLANTING.
14. INSTALLATION OF FENCING AND REQUIRED SIGNAGE.
15. REMOVAL OF SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES, AND OTHER STORMWATER MANAGEMENT FEATURES ONCE SITE HAS REACHED 80% FINAL STABILIZATION.

SOIL RESTORATION:

AS PER CHAPTER 5 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL, SOIL RESTORATION IS REQUIRED ON THIS SITE IN ALL NON-IMPERVIOUS AREAS ONCE FINAL SUBGRADE ELEVATION IS ACHIEVED, IN AREAS OF CUT OR FILL THE SOILS SHALL BE AERATED AND 6 INCHES OF TOPSOIL SHALL BE APPLIED. IN AREAS OF HEAVY CONSTRUCTION TRAFFIC (ESPECIALLY IN AREAS 5 TO 25 FEET FROM BUILDING, BUT NOT WITHIN 5 FEET OF FOUNDATION WALLS) THE FOLLOWING RESTORATION MUST BE APPLIED:

1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SOIL.
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF 4 INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES
5. VEGETATE AS REQUIRED BY APPROVED PLAN.



8/11 FARM GATE

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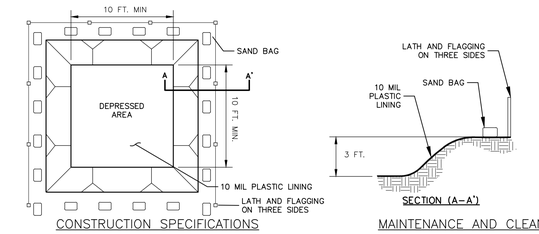

CONSTRUCTION SPECIFICATIONS

1. CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF FIFTY FEET (50') FROM SENSITIVE AREAS.
2. THE BASIN DIMENSIONS DEPICTED ABOVE ARE REQUIRED MINIMUMS. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE ENERATED BY WASHOUT OPERATIONS. (APPROXIMATELY 60 GALLONS OF WASTE AND WATER PER TRUCK).
3. PLASTIC LINING MATERIAL SHALL BE A MINIMUM 10 MIN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
4. WASHOUT FACILITY MUST BE CLEANED, OR NEW FACILITES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

MAINTENANCE AND CLEANING

1. DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS OR DIRECTLY ONTO GROUND
2. DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
3. PLACE A SECURE NON COLLAPSING, NON-WATER COLLECTING COVER OVER THE FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW.
4. REMOVE AND DISPOSE OF HARDEN CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL STATE.
5. INSPECT THE WASHOUT FACILITY FOR SIGNS OF WEAKENING OR DAMAGE AND REPAIR AS NESSESARYIRELINE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING).

9/11 CONCRETE WASHOUT FACILITY

NOT TO SCALE

SOLAR FIELD LAYOUT FOR

ELP GREENBUSH SOLAR

APPLICANT: ELP GREENBUSH SOLAR LLC

13 MORNER ROAD

TOWNS OF NORTH GREENBUSH AND EAST GREENBUSH
RENSSELAER COUNTY, NEW YORK

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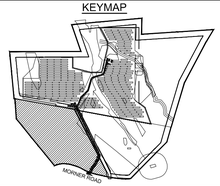

TOWN OF NORTH GREENBUSH PLANNING BOARD APPROVAL

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ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
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