

# SITE USE PERMIT SET

2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072  
5000 KWAC STC RATED SOLAR ELECTRIC SYSTEM

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**BORREGO SOLAR**  
55 TECHNOLOGY DRIVE, SUITE 102  
LOWELL, MA 01851  
PHONE: (978) 808-4273  
FAX: (978) 843-6778  
WWW.BORREGOSOLAR.COM

NOT FOR CONSTRUCTION

GENERAL NOTES	PROJECT SCOPE	LOCATION MAP	DRAWING LIST
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1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM/PROJECT OWNER.

2. WHEN THERE IS A CONFLICT BETWEEN THESE GENERAL NOTES AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS.

4. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A CONSTRUCTION LEVEL DESIGN AND ASSOCIATED DRAWINGS AND DETAILS.

5. COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS.

6. UNLESS OTHERWISE NOTED, THE DESIGN REPRESENTED ON THESE PLANS IS BASED ON THE INFORMATION AND CRITERIA LISTED IN THE "BASIS OF DESIGN" SECTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH INFORMATION IN PREPARATION OF THE CONSTRUCTION DESIGN.

7. THE EXISTING CONDITIONS REPRESENTED ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE INFORMATION AND THE SITE DISCOVERY SUMMARIZED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF SUCH INFORMATION AND SUPPLEMENT WITH ANY ADDITIONAL REQUIRED INFORMATION.

8. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT SHALL BE CONSIDERED TO BE NEW.

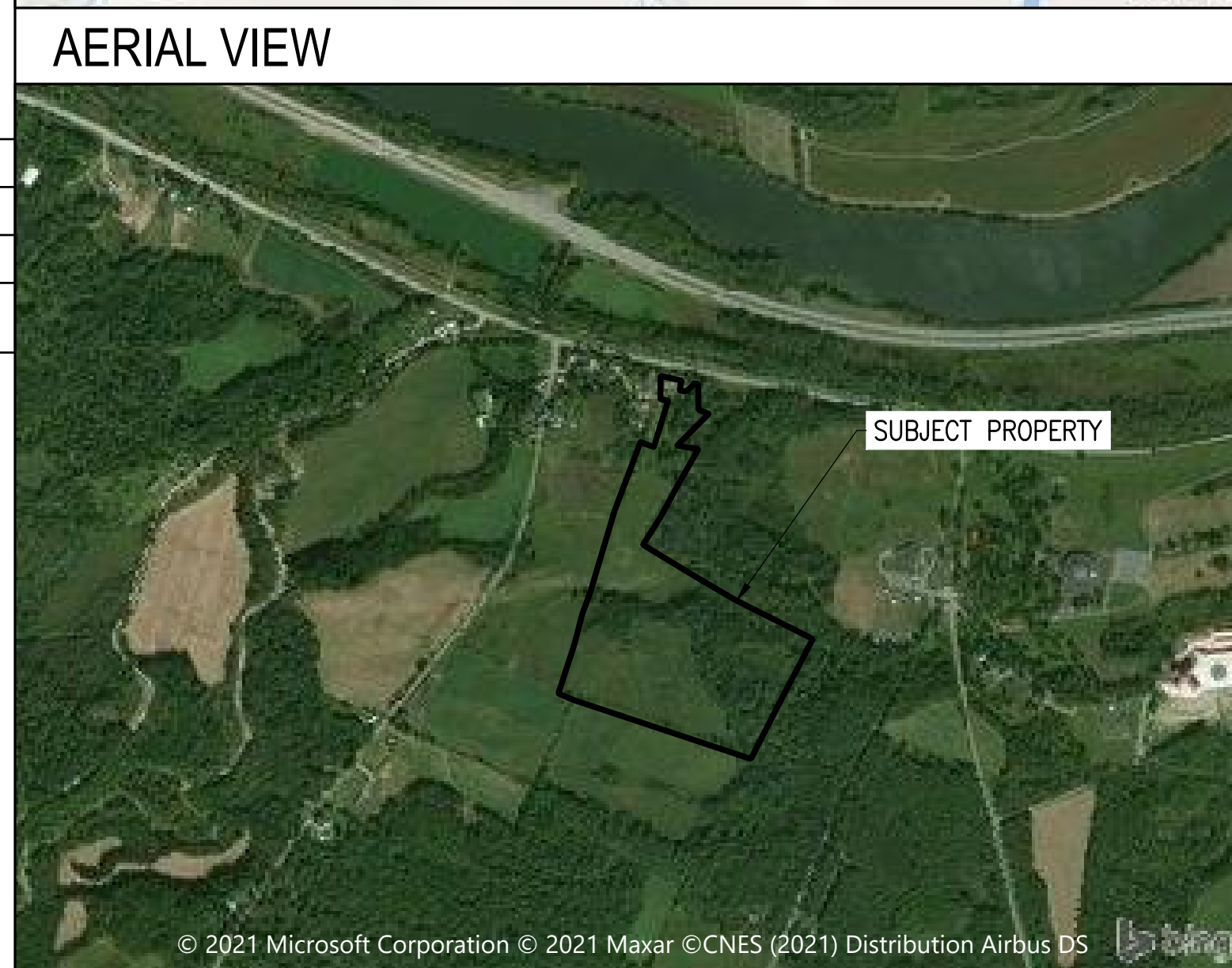
9. ALL EQUIPMENT AND COMPONENTS SHALL BE MOUNTED IN COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS, CONSTRUCTION DETAILS, AND/OR PRUDENT INDUSTRY STANDARDS.

10. TO THE EXTENT THAT TRESS AND OTHER FEATURES AFFECT THE SYSTEM'S PRODUCTION, SUCH PRODUCTION MODELING IS BASED ON THE EXISTING APPROXIMATE HEIGHTS AND LOCATIONS RELATIVE TO THE SYSTEM AND MAY BE IMPACTED AS TREES GROW AND OTHER FEATURES CHANGE.

THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES PER THE SYSTEM DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A GROUND MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTER(S), WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO AC. THE SOLAR ELECTRIC SYSTEM WILL BE INTERCONNECTED WITH THE EXISTING SITE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODE AND NATIONAL GRID REQUIREMENTS.

THIS PROJECT CONSISTS OF THE INSTALLATION OF ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION, BELOW. THE ENERGY STORAGE MODULES WILL BE INSTALLED IN A PURPOSE BUILT UNIT(S), AND FIRE SUPPRESSION SYSTEMS. THE ENERGY STORAGE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED THROUGH DC/DC CONVERTERS, WHICH WILL CONVERT DC TO AC WHILE THE BATTERIES ARE DISCHARGING.

SYSTEM DESCRIPTION			
		SYSTEM SIZE (AC)	5,000 KWAC
MODULES	(12402) HT-SAAE HT72-18X-545 (OR COMPARABLE)	INVERTERS(S)	(2) POWER ELECTRONICS HEMK FS2125/3190 (OR COMPARABLE)
STC RATING (W)	545 WDC	CEC EFFICIENCY	98.5 %
MODULES PER STRING	26	AZIMUTH	180
# OF STRINGS	477	TILT ANGLE	25
RACKING	TERRASMART TP2 2X9	ESTIMATED FOUNDATIONS	TBD



SHEET NUMBER	SHEET TITLE
T-1	TITLE PAGE
CIVIL	
C-1.0	EXISTING CONDITIONS PLAN
C-2.0	TREE CLEARING PLAN
C-3.0	LAYOUT AND MATERIALS PLAN
C-4.0	GRADING AND EROSION CONTROL PLAN
C-5.0	CIVIL DETAILS
C-5.1	CIVIL DETAILS
C-6.0	DRIVEWAY LAYOUT PLAN
C-6.1	DRIVEWAY GRADING & UTILITY PLAN
C-6.2	DRIVEWAY DETAILS (1 OF 2)
C-6.3	DRIVEWAY DETAILS (2 OF 2)
W-1.0	
W-2.0	POST-DEVELOPMENT WATERSHED PLAN
ELECTRICAL	
E-6.0	PLACARDS

## APPLICABLE CODES AND STANDARDS

2017 NATIONAL ELECTRICAL CODE  
2020 BUILDING CODE OF NEW YORK STATE  
UL-1703 - SOLAR MODULES  
UL-1741 - INVERTERS, COMBINER BOXES  
UL-2703 - RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES

## PROJECT DIRECTORY

**SYSTEM / PROJECT OWNER**  
TBD

**LAND OWNER / HOST**  
JEFFREY A. LANFEAR  
3247 STATE HIGHWAY 30A  
FULTONVILLE, NY 12072  
518-527-0373

**AUTHORITY HAVING JURISDICTION**  
TOWN OF GLEN  
7 ERIE STREET  
FULTONVILLE, NY 12072  
518-853-3633

**UTILITY**  
NATIONAL GRID

**CIVIL ENGINEER**  
FIRM: BORREGO SOLAR SYSTEMS, INC.  
CONTACT: GREGORY GIBBONS, P.E.  
PHONE: 315-378-9567

**ELECTRICAL ENGINEER**  
FIRM: BORREGO SOLAR SYSTEMS, INC  
CONTACT: AHARON WRIGHT, P.E.  
PHONE: 978-221-3081

**DESIGN ENGINEER**  
FIRM: BORREGO SOLAR SYSTEMS, INC  
CONTACT: STEVEN RIGGALL  
PHONE: 518-309-7837

## GENERAL ABBREVIATIONS

(E) EXISTING	NS NORTH-SOUTH
AHJ AUTHORITY HAVING JURISDICTION	NTS NOT TO SCALE
AL ALUMINUM	OAE OR APPROVED EQUAL
APPROX APPROXIMATE	OC ON CENTER
ARY ARRAY	OD OUTSIDE DIAMETER
BLDG BUILDING	ODFCI OWNER FURNISHED CONTRACTOR INSTALLED
BSS BORREGO SOLAR SYSTEM	PV PHOTOVOLTAIC
CL CENTERLINE	PVC POLY VINYL CHLORIDE
DAS DATA ACQUISITION SYSTEM	SCH SCHEDULE
DIA DIAMETER	SS STAINLESS STEEL
DO DITTO	SSS SOLAR SUPPORT STRUCTURE
EW EAST-WEST	STC STANDARD TEST CONDITIONS
FBO FURNISHED BY OTHERS	TBD TO BE DETERMINED
FF FORWARD FACING	TP TAMPER PROOF
GALV GALVANIZED	TYP TYPICAL
HDC HOT DIP GALVANIZED	UON UNLESS OTHERWISE NOTED
HVAC HEATING VENTILATION AND AIR CONDITIONING	VIF VERIFY IN FIELD
ID INSIDE DIAMETER	WP WEATHER PROOF
MFR MANUFACTURER	
MOD SOLAR MODULE	

REV 1.0

## BOUNDARY & TOPOGRAPHIC SURVEY:

PERFORMED BY LAWSON SURVEYING & MAPPING ON JANUARY 15, 2021.

WETLAND STREAM AND DELINEATION REPORT:  
PERFORMED BY SHUMAKER CONSULTING ENGINEERING & LAND SURVEYING, D.P.C. ON OCTOBER 27, 2020.

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	2/10/21	DC	GG	SITE USE PERMIT SET
	04/05/21	DC	GG	NYSDOT PERM 33-COM
	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

REV 1.0

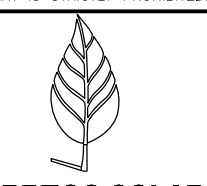
NYSDOT SUBMISSION  
 2621 STATE HIGHWAY 5S SOLAR PROJECT  
 2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

PROJECT NUMBER:  
108-4862

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**T-1**  
TITLE PAGE

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55 TECHNOLOGY DRIVE, SUITE 102  
CORVALLIS, WA 97331  
PHONE: (509) 808-4273  
FAX: (509) 843-6778  
WWW.BORREGOSOLAR.COM

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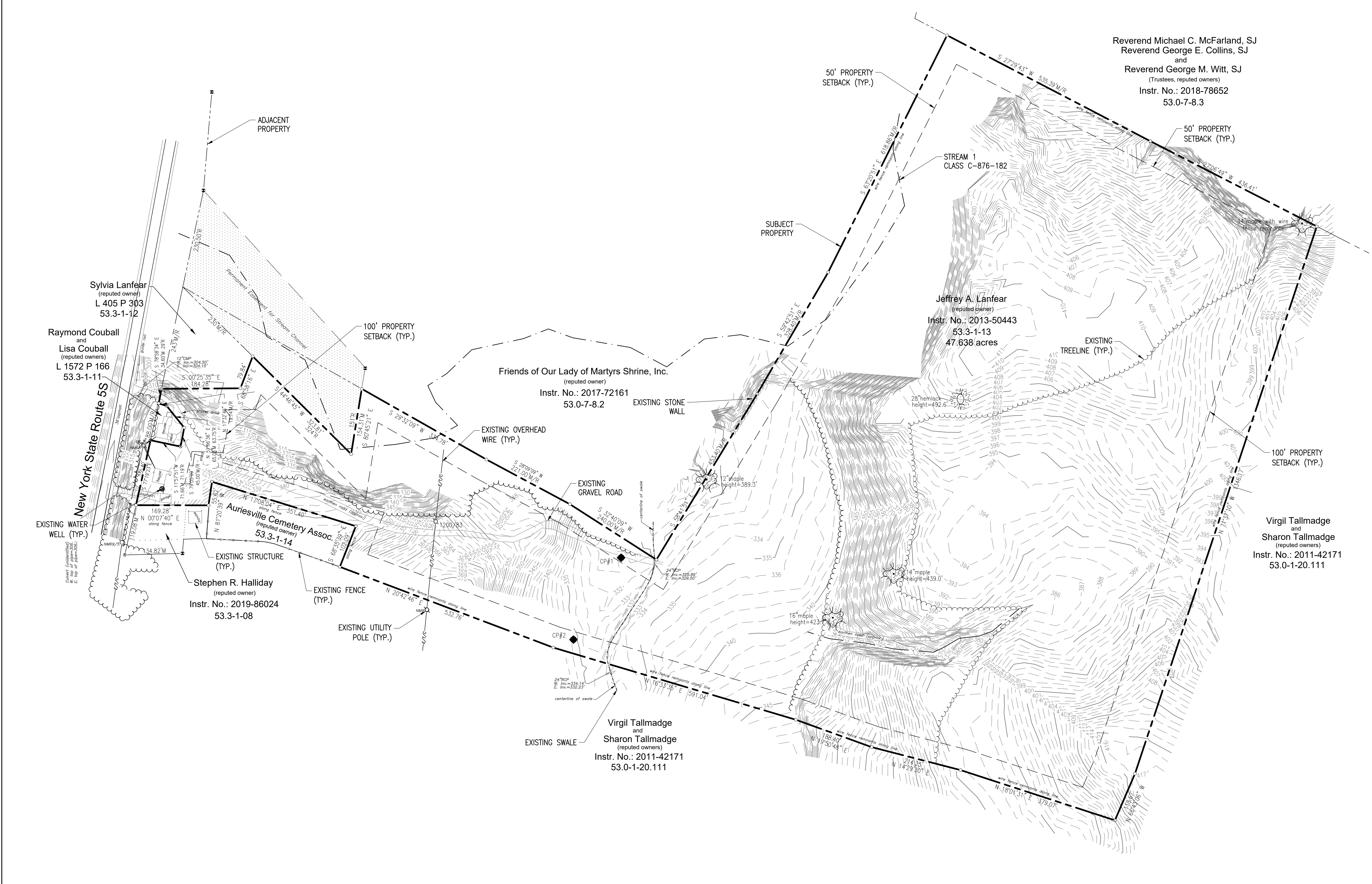
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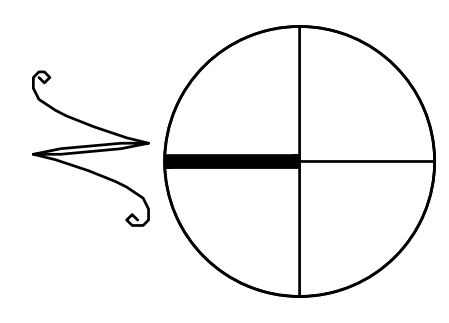
**C-1.0**  
EXISTING CONDITIONS PLAN

Reverend Michael C. McFarland, SJ  
Reverend George E. Collins, SJ  
and  
Reverend George M. Witt, SJ  
(Trustees, reputed owners)  
Instr. No.: 2018-78652  
53.0-7-8.3



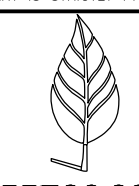
**EXISTING CONDITIONS PLAN**

SCALE: 1" = 100'  
0 100' 200'



LEGEND	
	PROPERTY LINE
	SUBJECT PROPERTY LINE
	PROPERTY LINE SETBACKS

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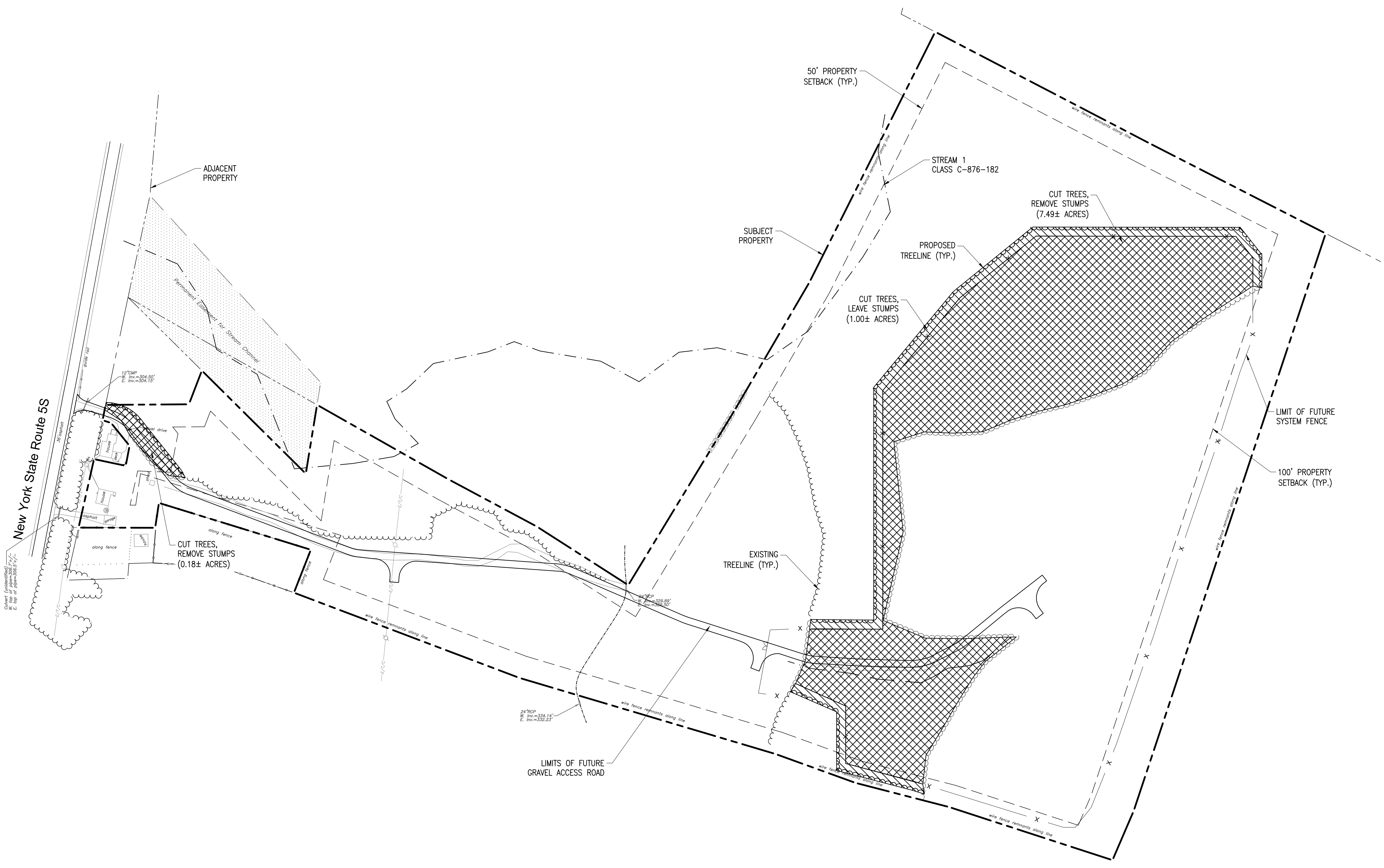
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	04/09/21	PLANNING BOARD SUBMISSION	GG	GG	DC
	06/10/21	PLANNING BOARD SUBMISSION	GG	GG	DC

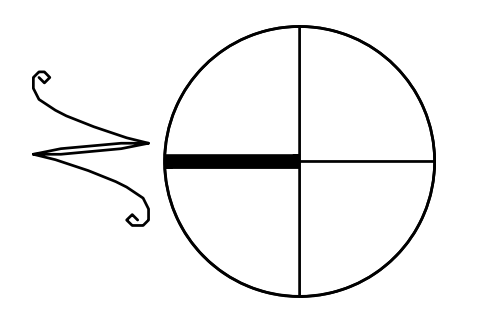
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**C-2.0**  
TREE CLEARING PLAN



TREE CUTTING ONLY = 1.00 ACRES  
TREE CUTTING AND STUMPING = 7.67 ACRES  
TOTAL = 8.67 ACRES

LEGEND	
	PROPERTY LINE
	SUBJECT PROPERTY LINE
	PROPERTY LINE SETBACKS
	TREE CUTTING ONLY
	TREE CUTTING AND STUMPING



# TREE CLEARING PLAN

SCALE: 1" = 100'  
0 100' 200'

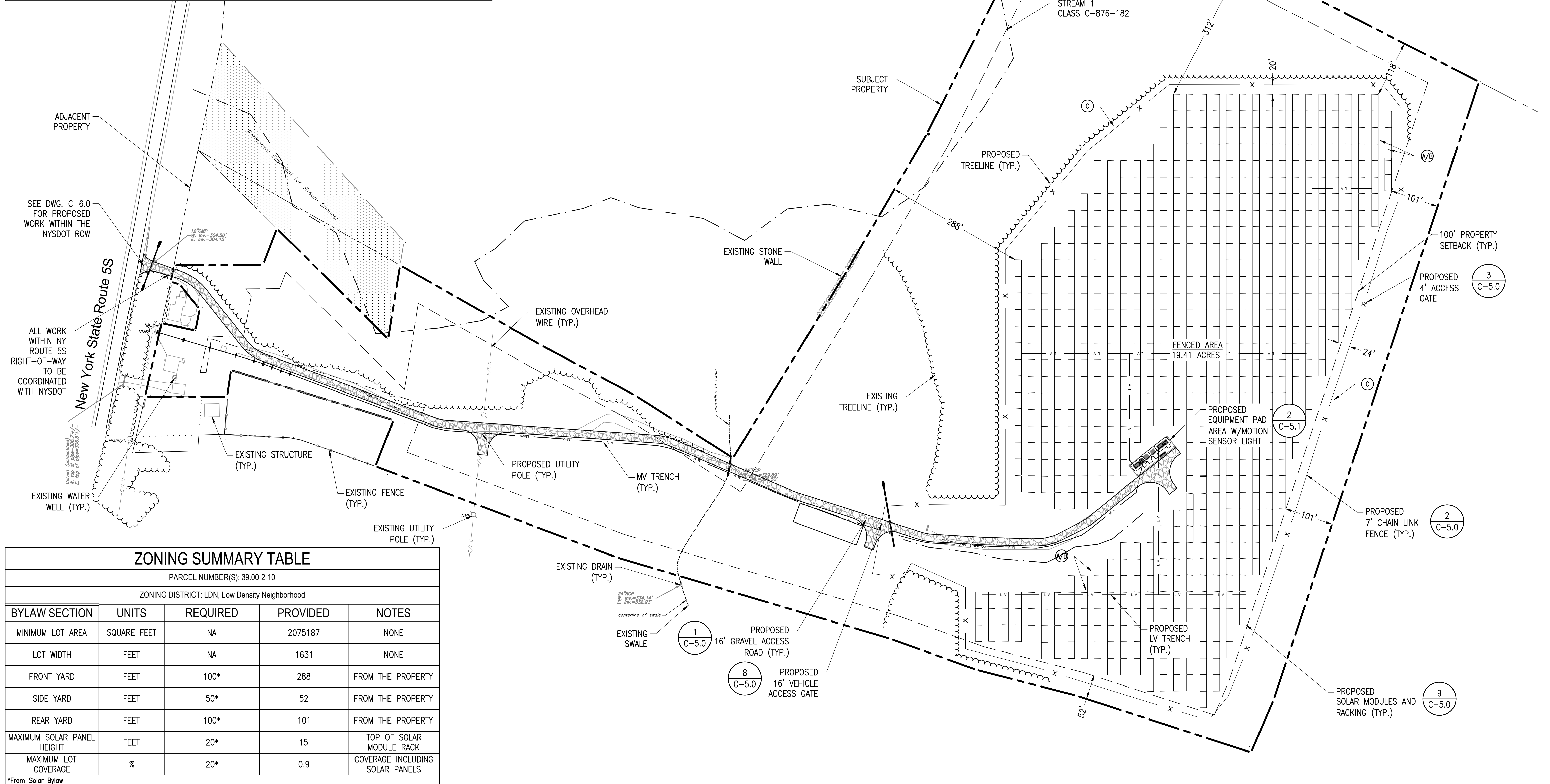
### SEEDING SPECIFICATIONS

LOCATION	NAME/SPECIES	SUPPLIER	SEEDING RATE
A/B	BETWEEN AND UNDER SOLAR PANELS	REBEL TALL FESCUE, CHEWINGS FESCUE OR HARD FESCUE	SEEDLAND.COM
		ERNMX-129: CONSERVATION SHADE MIX	ERNST
C	OUTSIDE OF FENCE	ERNMX-179: BUTTERFLY & HUMMINGBIRD GARDEN MIX	ERNST
			5 lbs./1,000 SF
			30 lbs./ACRE

1. BETWEEN DECEMBER 1ST AND APRIL 1ST, EACH TYPE OF SEED SHALL HAVE AN ADDITIONAL 1#/1,000 SF OF WINTER RYEGRASS OR GRAIN RYE GRASS SEED.

2. IT SHALL BE THE SUB-CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE PROJECT LIMIT OF WORK IS STABILIZED (IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS/REQUIREMENTS/PERMIT APPROVALS) DURING THE LENGTH OF THE PROJECT.

3. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" MINIMUM TOPSOIL & SEED PER SEEDING SPECIFICATIONS LISTED IN THIS TABLE.



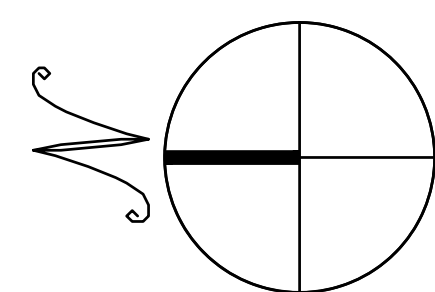
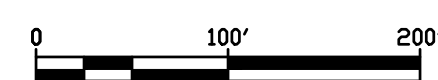
### ZONING SUMMARY TABLE

PARCEL NUMBER(S): 39.00-2-10				
ZONING DISTRICT: LDN, Low Density Neighborhood				
BYLAW SECTION	UNITS	REQUIRED	PROVIDED	NOTES
MINIMUM LOT AREA	SQUARE FEET	NA	2075187	NONE
LOT WIDTH	FEET	NA	1631	NONE
FRONT YARD	FEET	100*	288	FROM THE PROPERTY
SIDE YARD	FEET	50*	52	FROM THE PROPERTY
REAR YARD	FEET	100*	101	FROM THE PROPERTY
MAXIMUM SOLAR PANEL HEIGHT	FEET	20*	15	TOP OF SOLAR MODULE RACK
MAXIMUM LOT COVERAGE	%	20*	0.9	COVERAGE INCLUDING SOLAR PANELS

\*From Solar Bylaw

### LAYOUT AND MATERIALS PLAN

SCALE: 1" = 100'



### LEGEND

	PROPERTY LINE
	SUBJECT PROPERTY LINE
	PROPERTY LINE SETBACKS

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**C-3.0**  
LAYOUT AND MATERIALS PLAN



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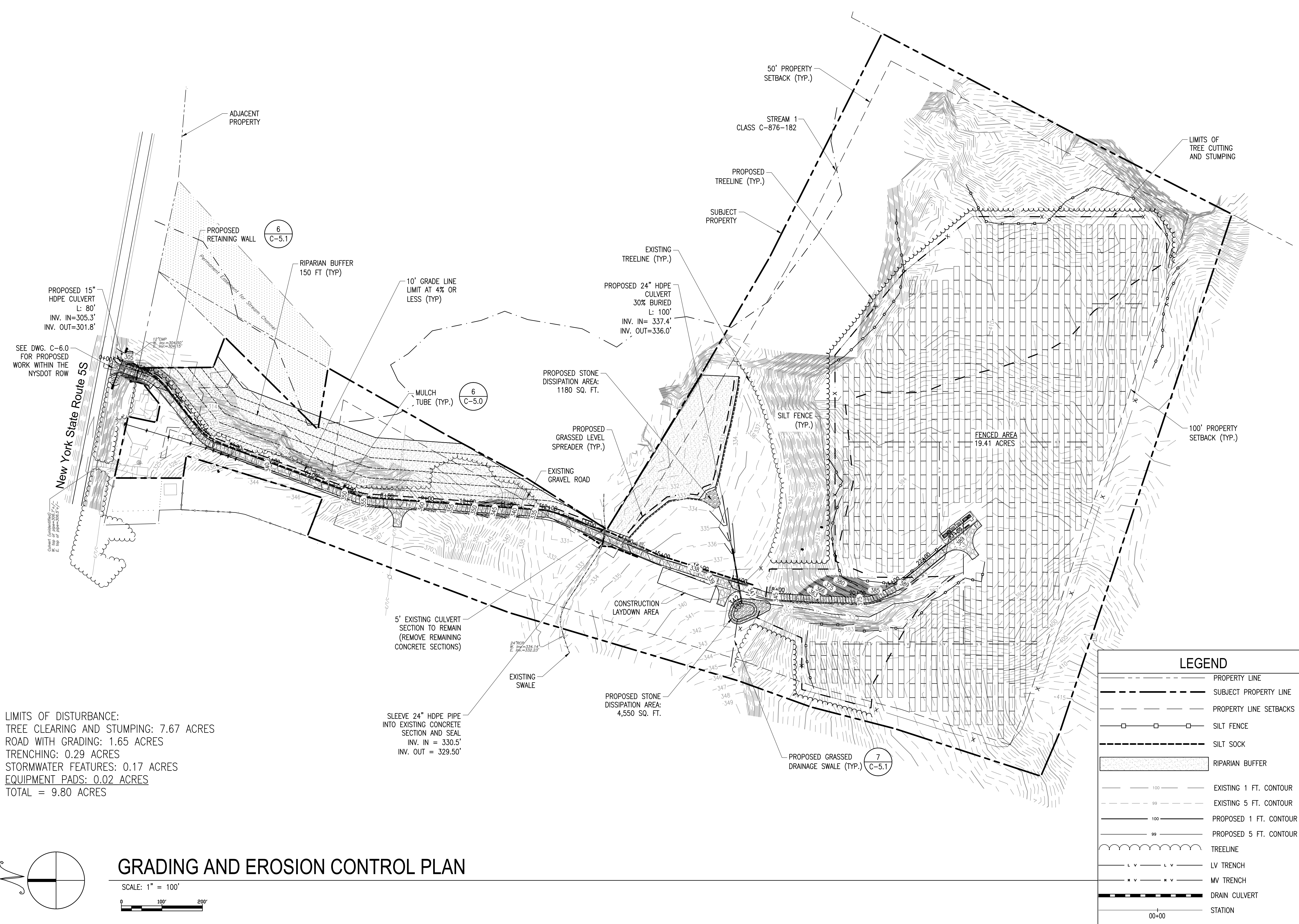
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GG	04/05/21	NYSDOT PERM 33-COM	GG
GG	04/09/21	PLANNING BOARD SUBMISSION	GG
GG	06/10/21	PLANNING BOARD SUBMISSION	GG

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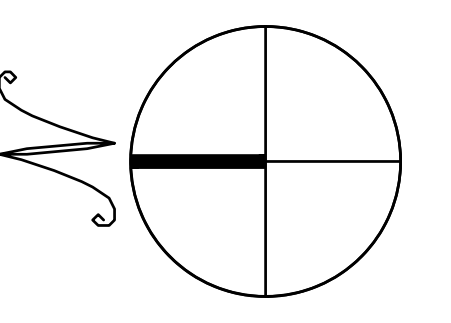
**C-4.0**  
GRADING AND EROSION CONTROL PLAN



PROPOSED 15" HDPE CULVERT  
L: 80'  
INV. IN=305.3'  
INV. OUT=301.8'

SEE DWG. C-6.0 FOR PROPOSED WORK WITHIN THE NYS DOT ROW

LIMITS OF DISTURBANCE:  
TREE CLEARING AND STUMPING: 7.67 ACRES  
ROAD WITH GRADING: 1.65 ACRES  
TRENCHING: 0.29 ACRES  
STORMWATER FEATURES: 0.17 ACRES  
EQUIPMENT PADS: 0.02 ACRES  
TOTAL = 9.80 ACRES



# GRADING AND EROSION CONTROL PLAN

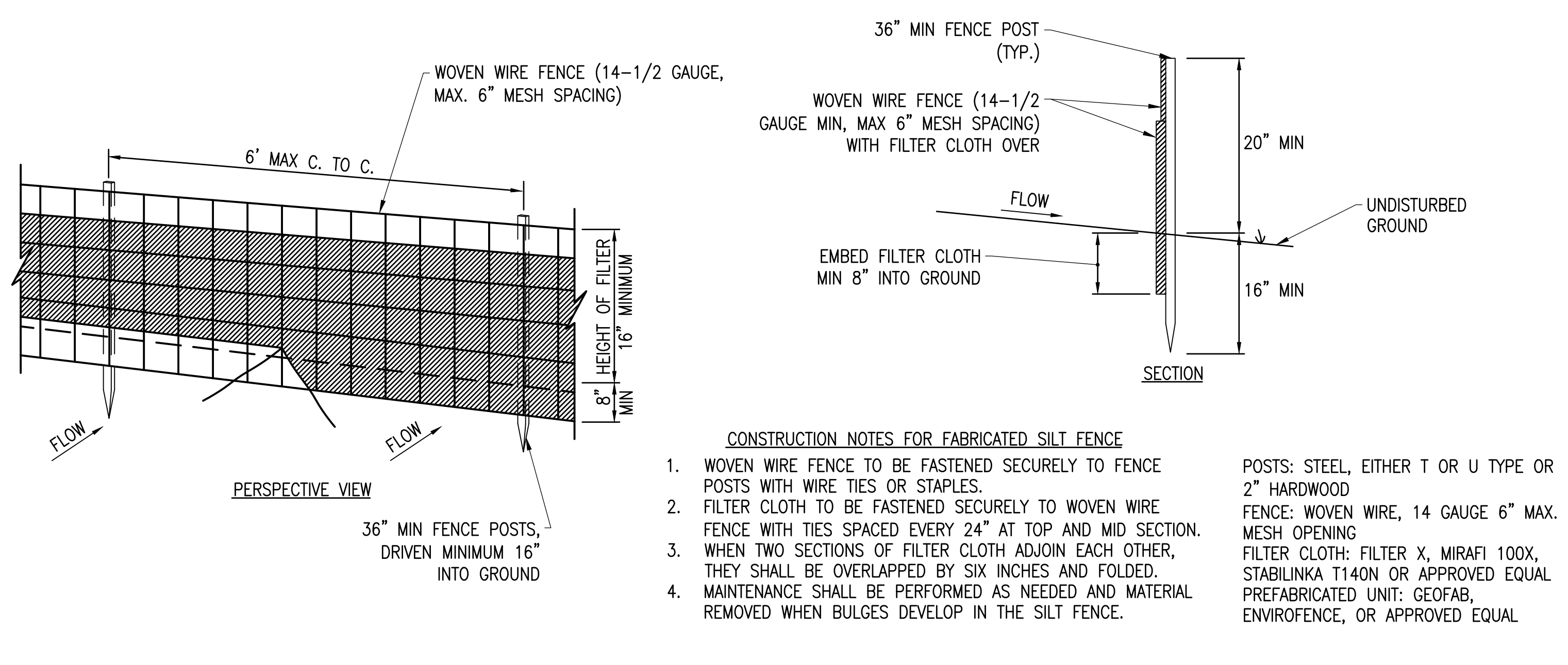
SCALE: 1" = 100'  
0 100' 200'

LEGEND	
	PROPERTY LINE
	SUBJECT PROPERTY LINE
	PROPERTY LINE SETBACKS
	SILT FENCE
	SILT SOCK
	RIPARIAN BUFFER
	EXISTING 1 FT. CONTOUR
	EXISTING 5 FT. CONTOUR
	PROPOSED 1 FT. CONTOUR
	PROPOSED 5 FT. CONTOUR
	TREELINE
	LV TRENCH
	MV TRENCH
	DRAIN CULVERT
	STATION

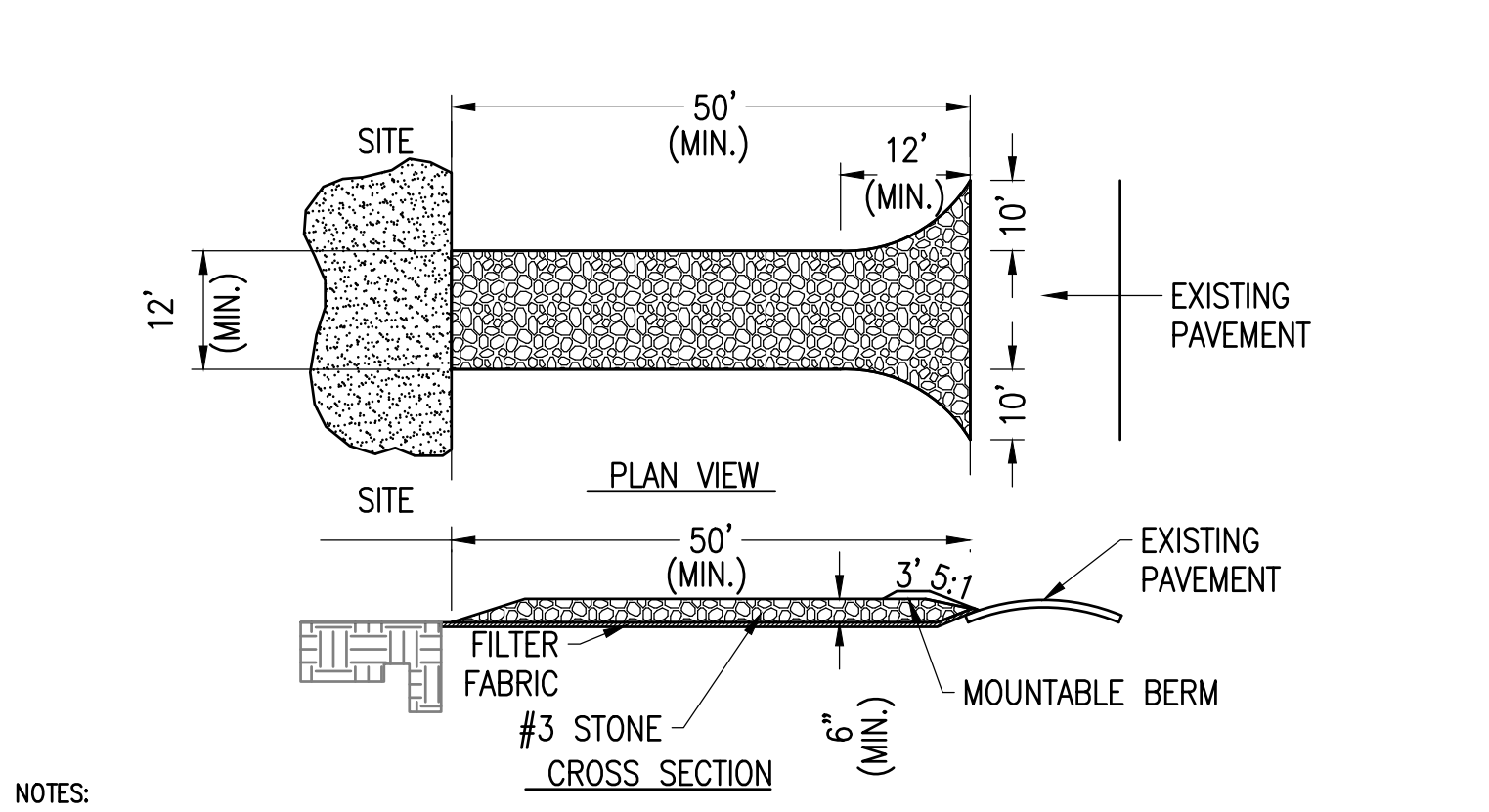
6  
C-5.1  
PROPOSED RETAINING WALL

6  
C-5.0  
MULCH TUBE (TYP.)

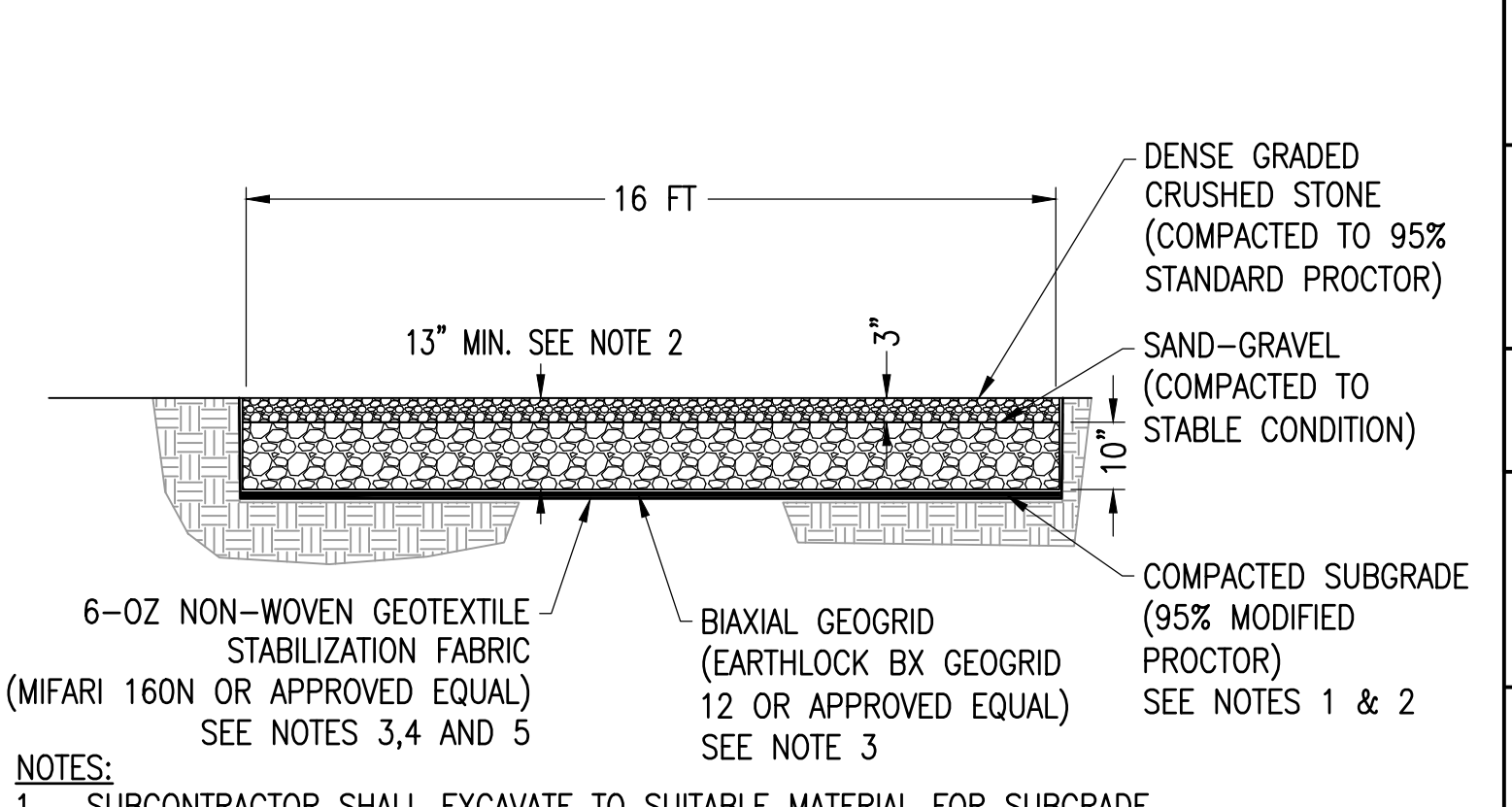
7  
C-5.1  
PROPOSED GRASSSED DRAINAGE SWALE (TYP.)



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. WOVEN WIRE FENCE 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 SPACED EVERY 24" AT TOP AND MID SECTION.
  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- POSTS: STEEL, EITHER T OR U TYPE OR 2" HARDWOOD FENCE: WOVEN WIRE, 14 GAUGE 6" MAX. MESH OPENING  
 FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL  
 PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL



- NOTES:**
1. STONE SIZE - USE NYSDOT 703-0201 SIZE DESIGNATION #3 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  2. LENGTH - NOT LESS THAN 50 FEET.
  3. THICKNESS - NOT LESS THAN 6 INCHES.
  4. WIDTH - NOT LESS THAN 12 FEET WHERE MORE THAN ONE (1) ACCESS POINT TO THE SITE. WHERE ONE (1) ACCESS POINT A MINIMUM OF 24 FEET IS REQUIRED.
  5. GEOTEXTILE - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
  6. SURFACE WATER - SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
  7. 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 TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
  8. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

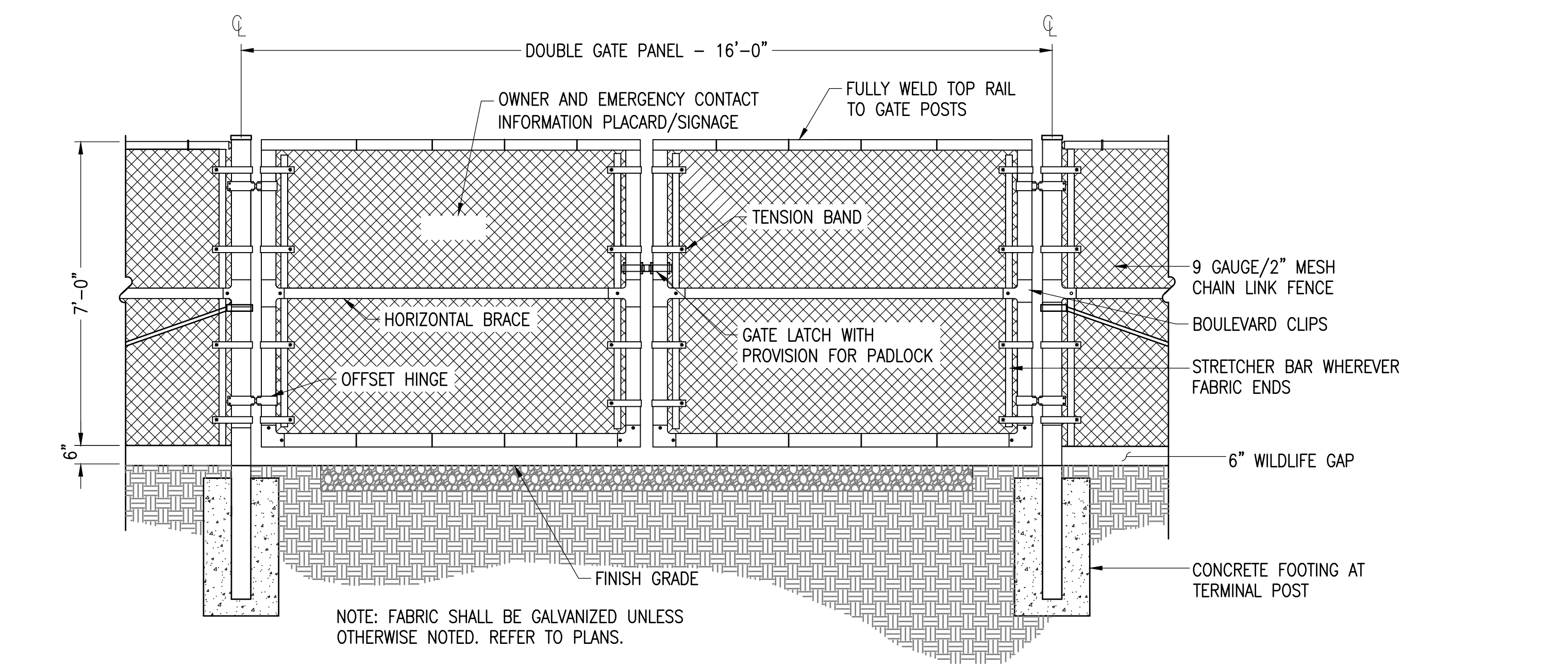


- NOTES:**
1. SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
  2. SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION CRITERIA.
  3. SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
  4. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
  5. SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.
  6. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRICAL CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.

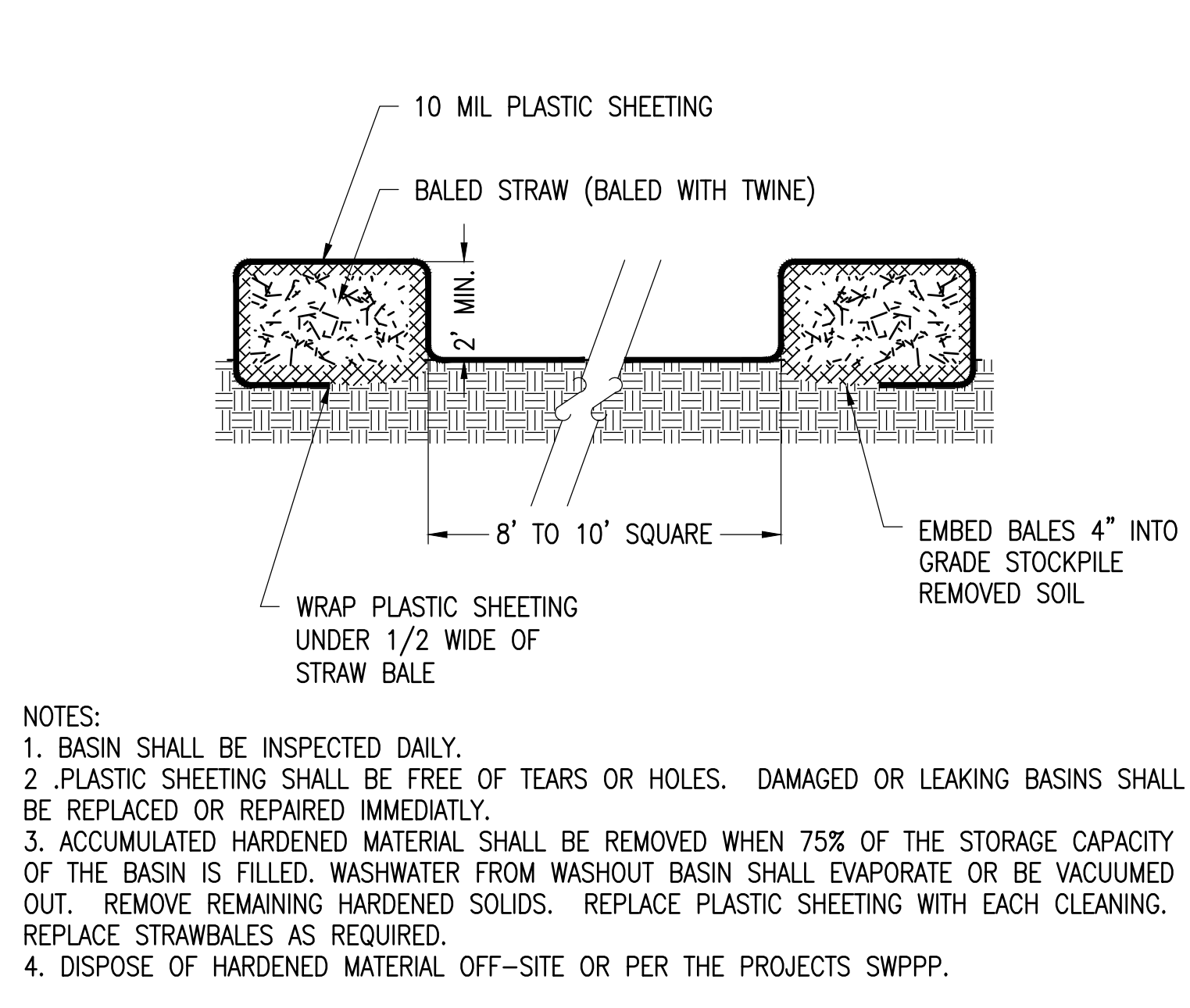
**7 SILT FENCE DETAIL** SCALE: NTS  
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**4 STABILIZED CONSTRUCTION EXIT** SCALE: NTS  
 XD\_CIVIL\_TEMPORARY CONSTRUCTION STABILIZED CONSTRUCTION EXIT\_NY 2019-04-02

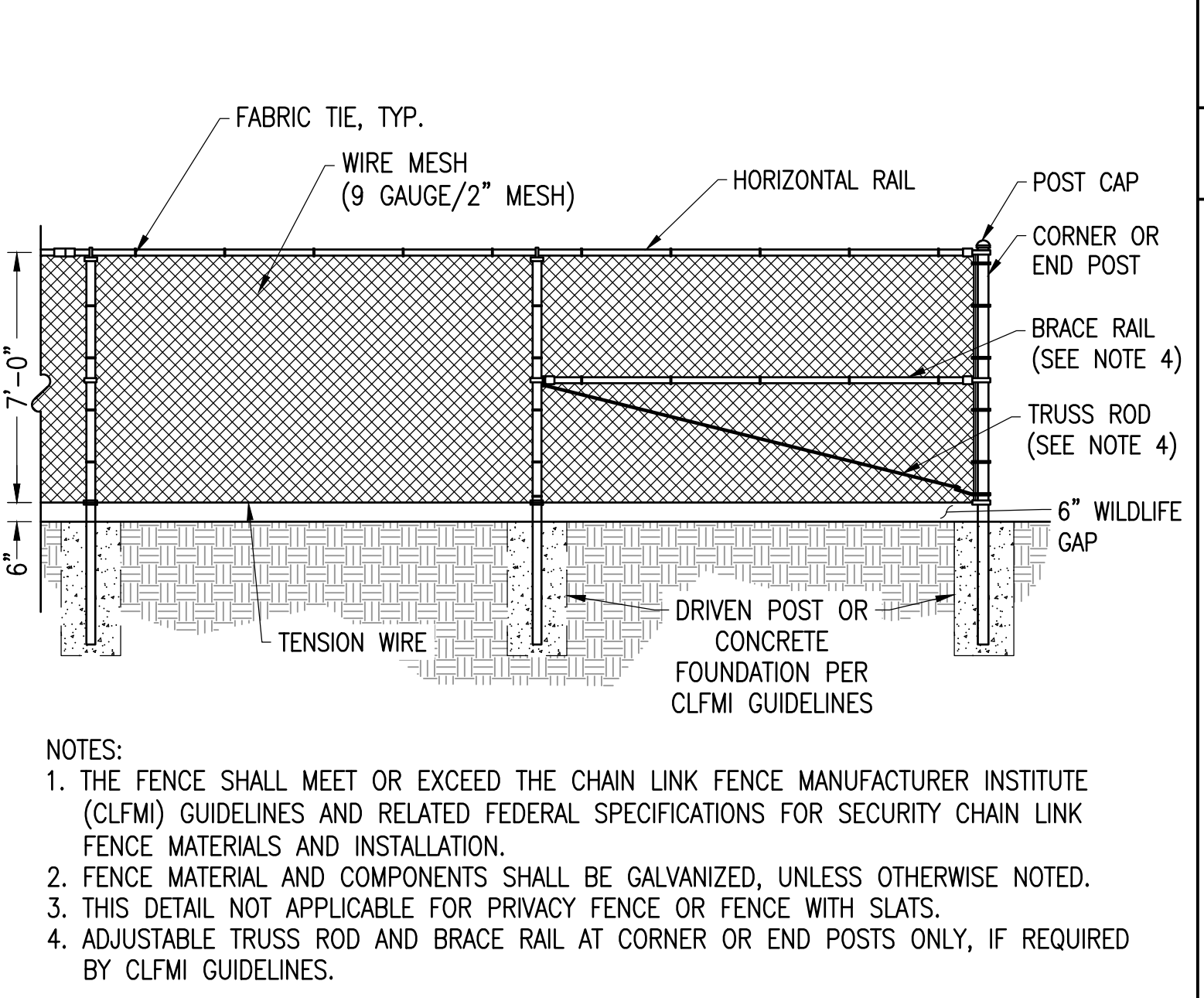
**1 GRAVEL ACCESS ROAD** SCALE: NTS  
 XD\_CIVIL\_GRAVEL\_ROAD\_LI\_04-30-2019



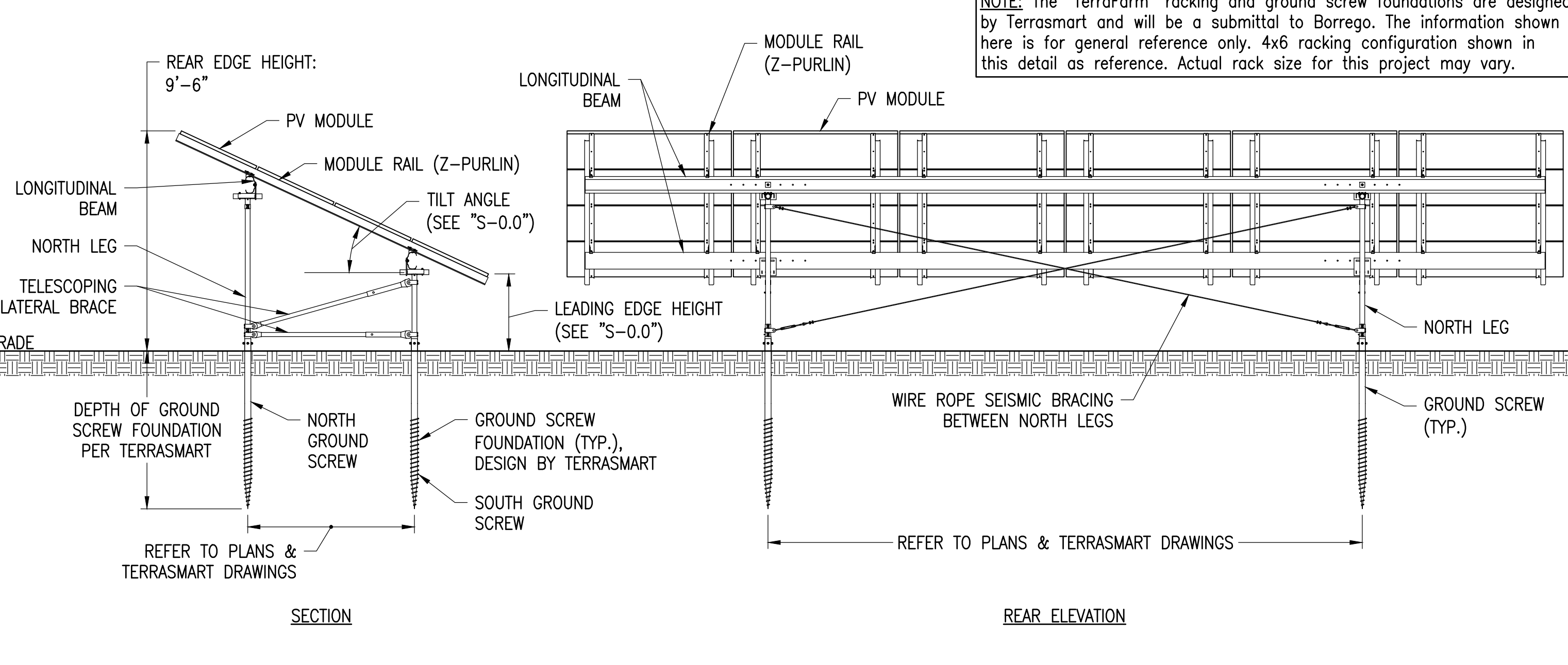
**8 VEHICLE GATE WITH WILDLIFE GAP** SCALE: NTS  
 XD\_CIVIL\_FENCE\_VEHICLE\_GATE\_7 07-02-2020



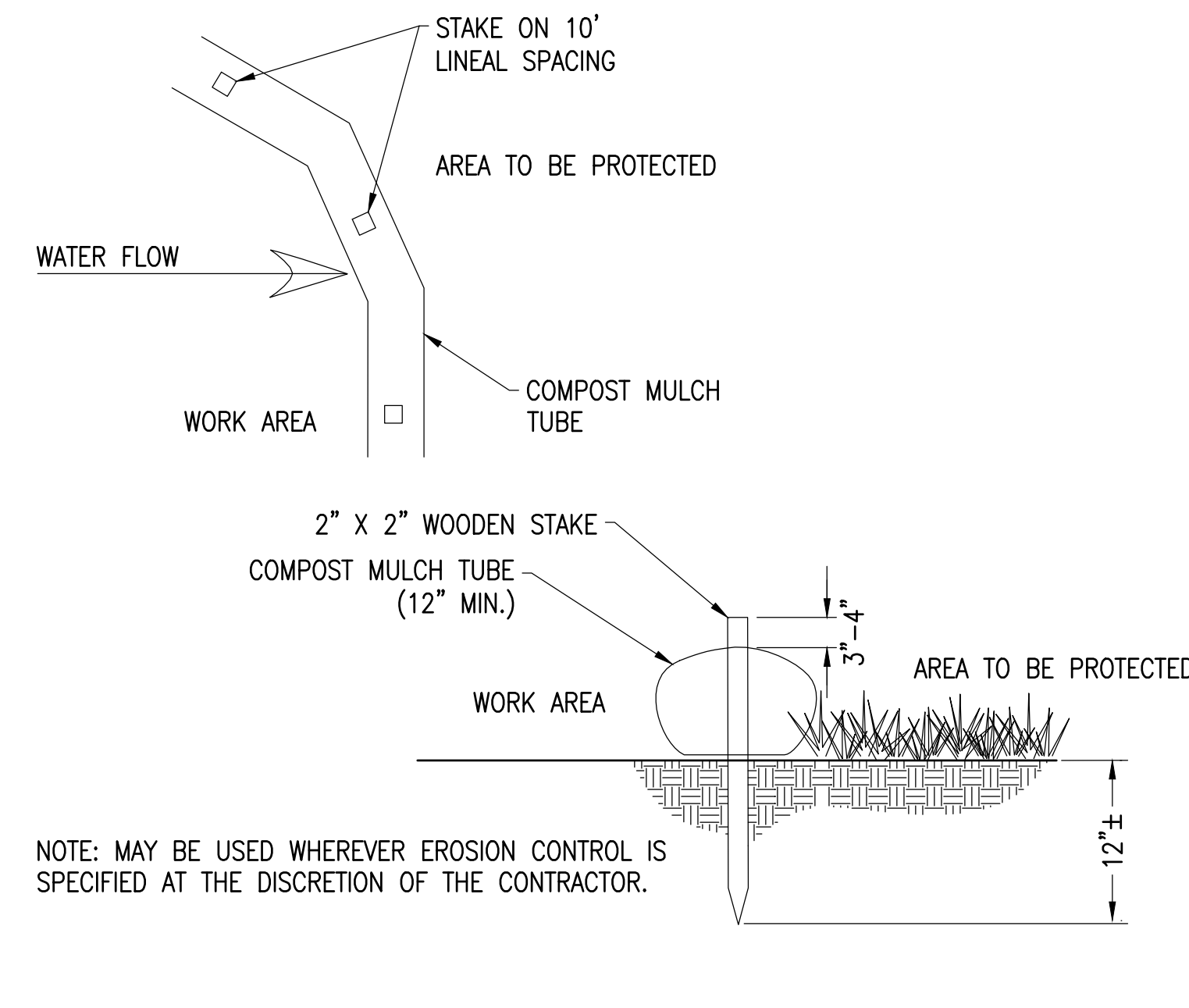
**5 CONCRETE WASHOUT BASINS** SCALE: NTS  
 XD\_CIVIL\_CONCRETE WASHOUT BASINS 07-26-2017



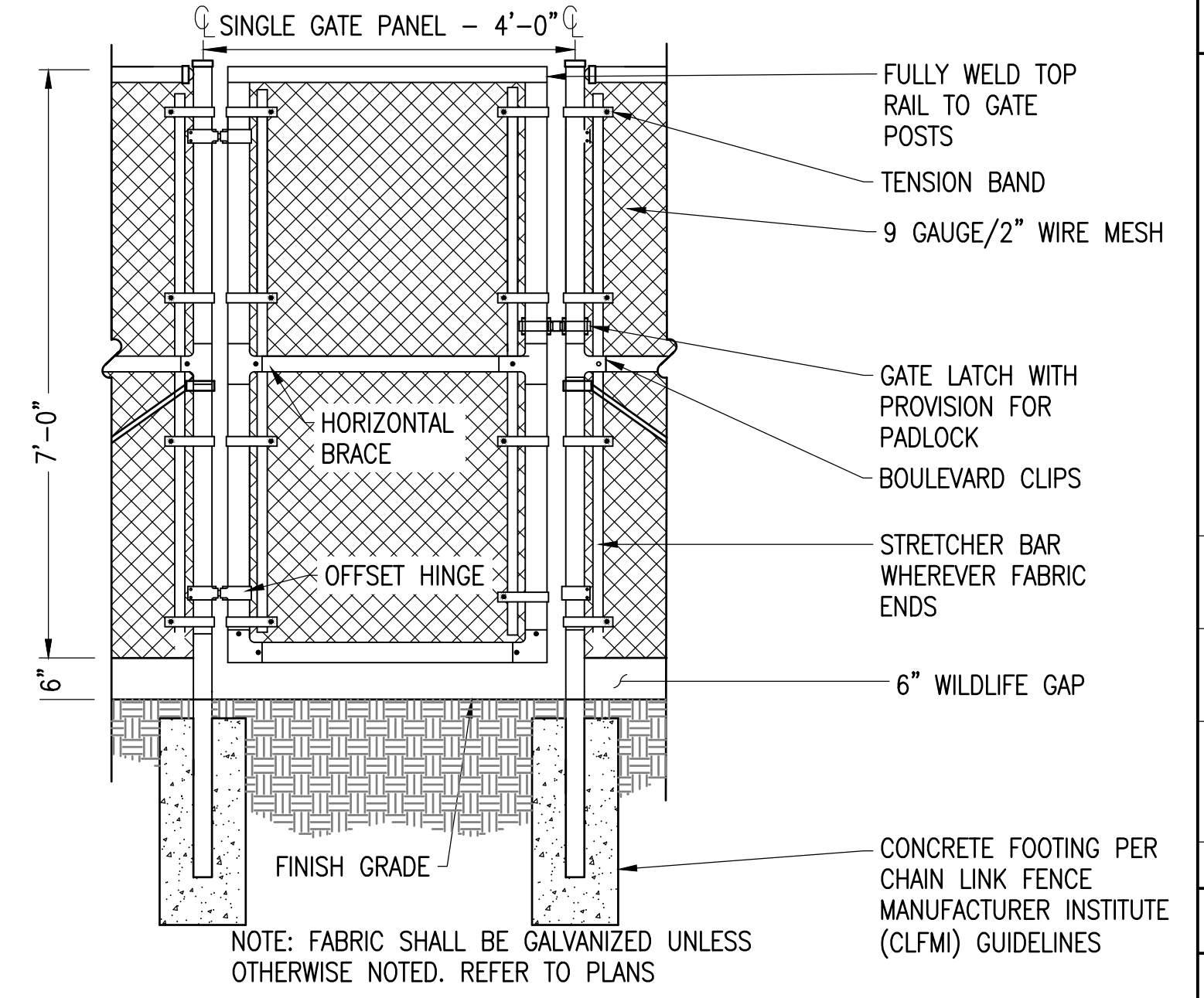
**2 CHAIN LINK FENCE WITH WILDLIFE GAP** SCALE: NTS  
 XD\_CIVIL\_FENCE\_7\_CHAIN LINK\_WILDLIFE\_GAP 07-02-2020



**9 TYPICAL RACK SECTION & REAR ELEVATION** SCALE: NTS  
 XD\_STRUCT\_TERRASMAART\_TF3L\_RACK SECT & REAR ELEV 2016-12-03



**6 MULCH TUBE** SCALE: NTS  
 XD\_CIVIL\_FILTERXX\_FILTER SOCK 03-29-2016



**3 4' ACCESS GATE WITH WILDLIFE GAP** SCALE: NTS  
 XD\_CIVIL\_SITE CONSTRUCTION\_4' WALK THROUGH GATE 07-25-2017

NOT FOR CONSTRUCTION

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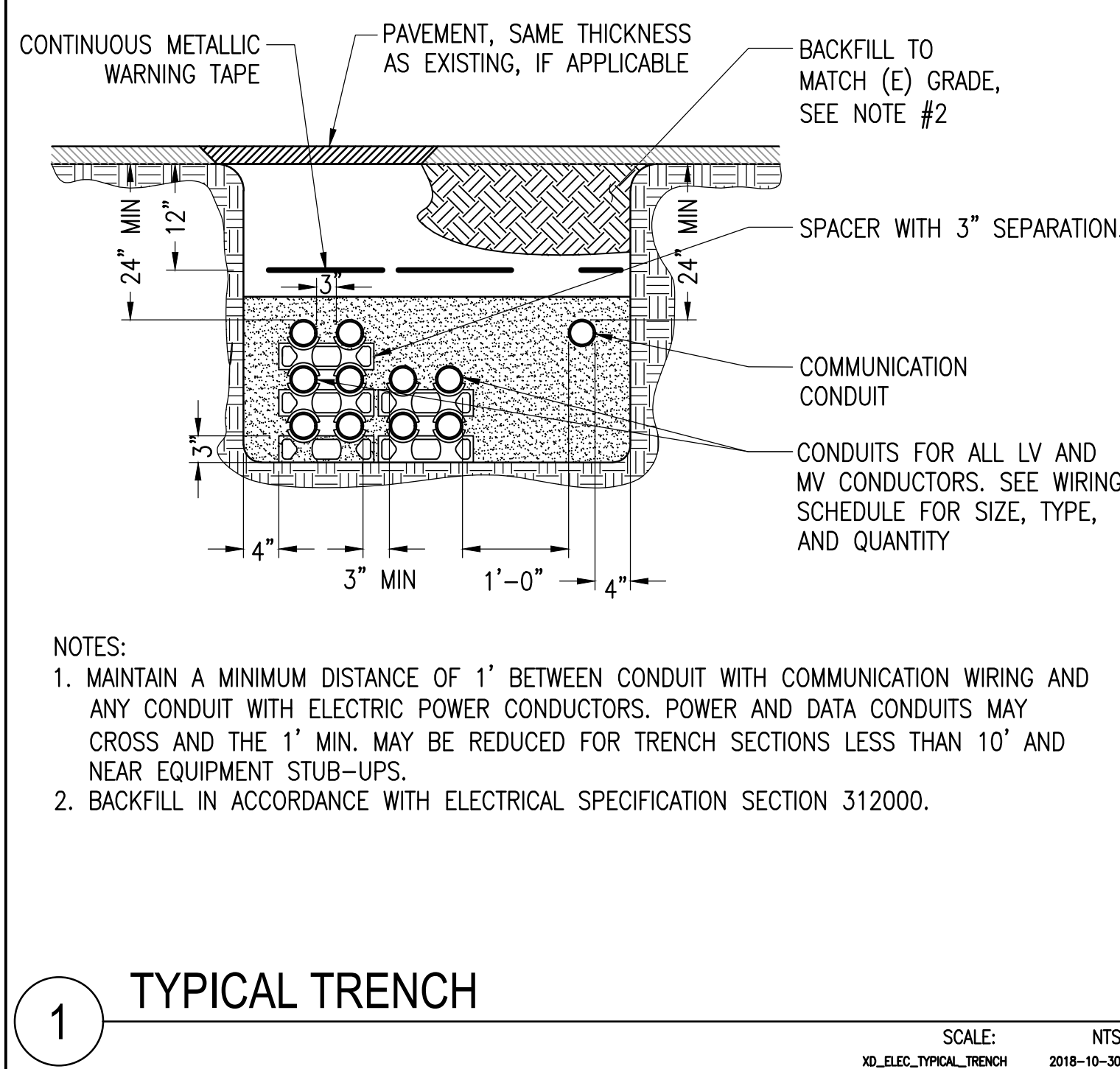
NYSERDA SUBMISSION  
 2621 STATE HIGHWAY 5S SOLAR PROJECT  
 2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

PROJECT NUMBER: 108-4862

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	2/10/21	DC	GG	SITE USE PERMIT SET
2	04/05/21	DC	GG	NYSDOT PERM 33-COM
3	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
4	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

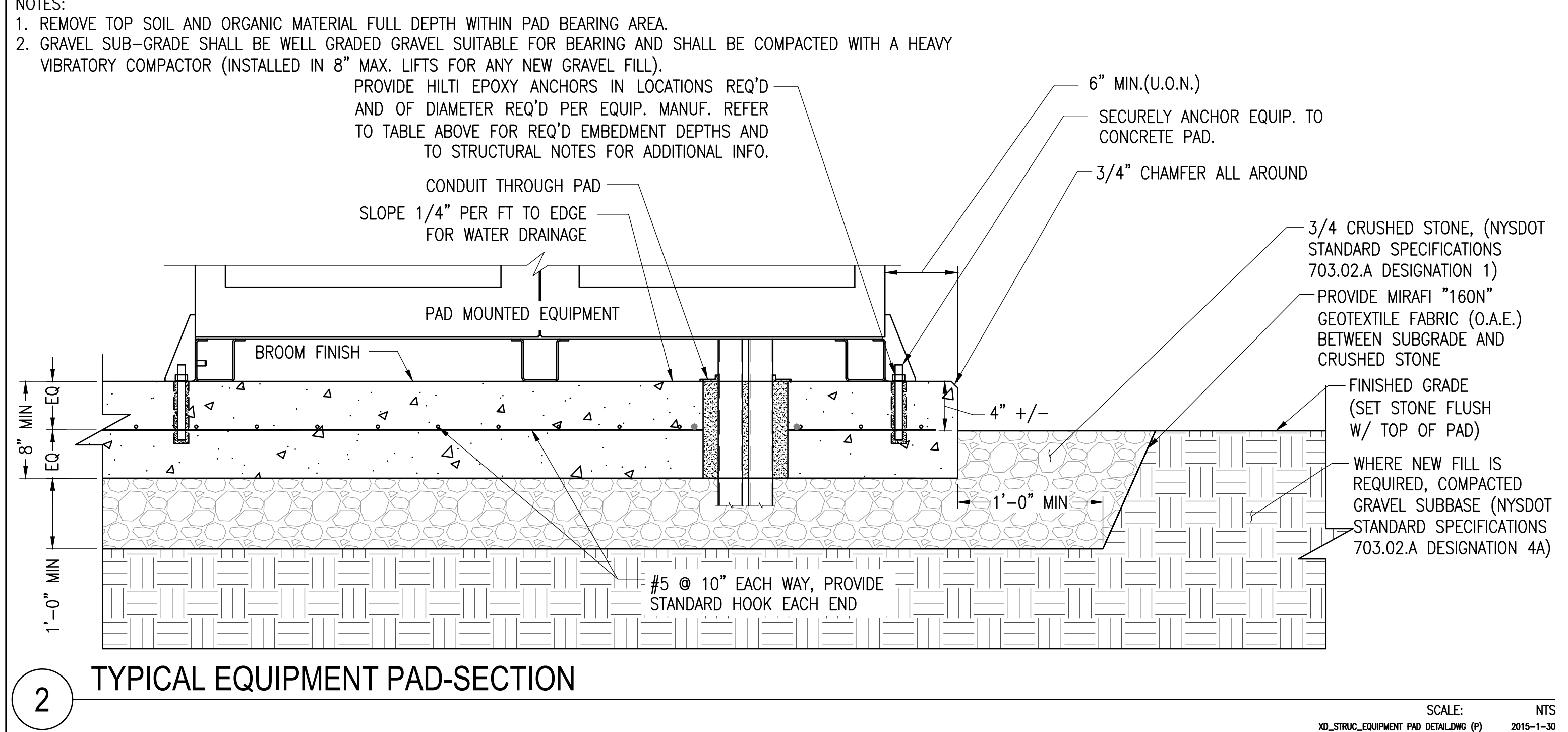
SCALE: 1" = 12' (WHEN PLOTTED)  
 ARCH & 24" X 36"

**C-5.0**  
 CIVIL DETAILS



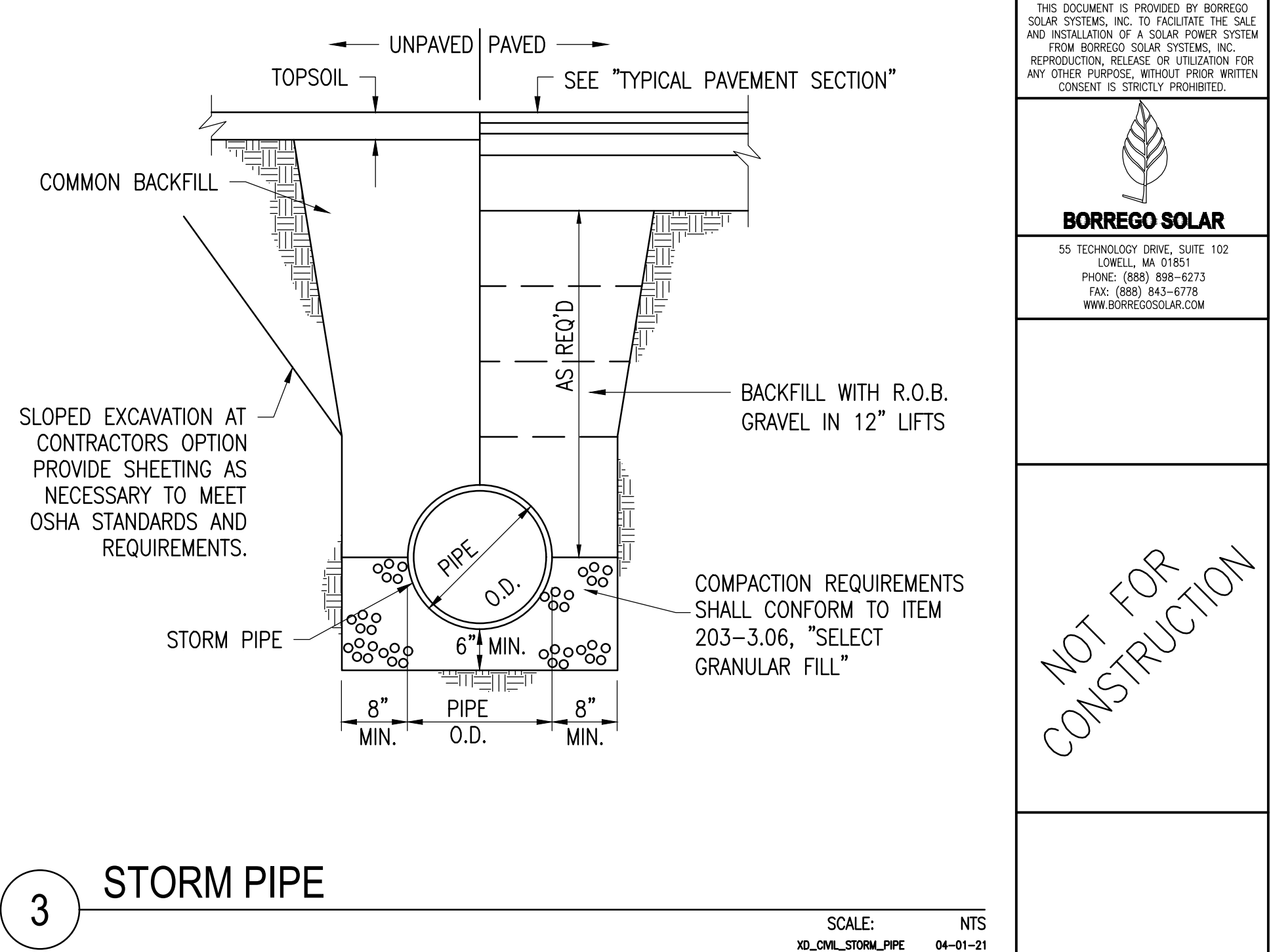
1 TYPICAL TRENCH

SCALE: NTS  
XD\_ELEC\_TYPICAL\_TRENCH 2018-10-30



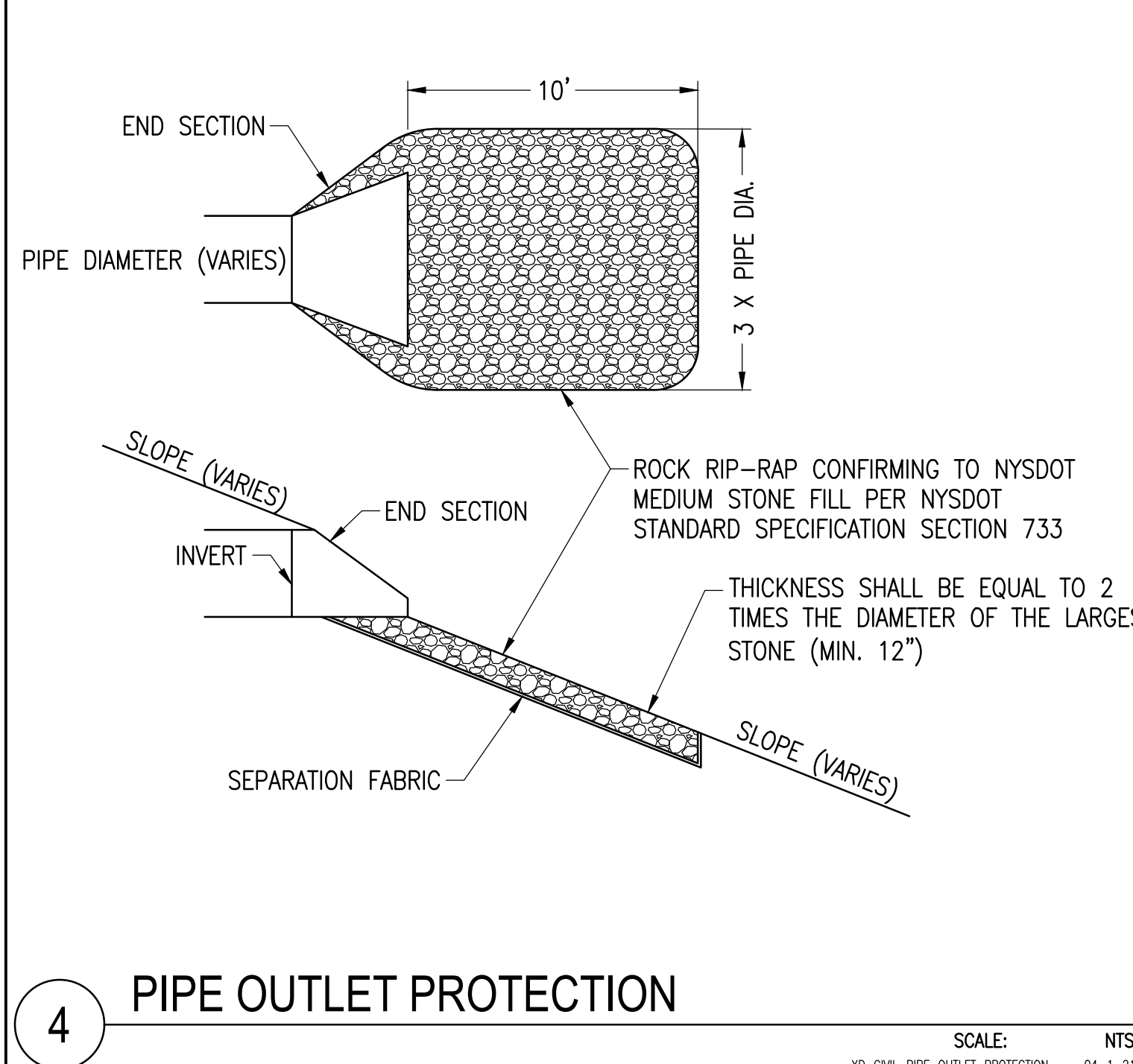
2 TYPICAL EQUIPMENT PAD-SECTION

SCALE: NTS  
XD\_STRUCT\_EQUIPMENT\_PAD\_DETAILING (P) 2015-1-30



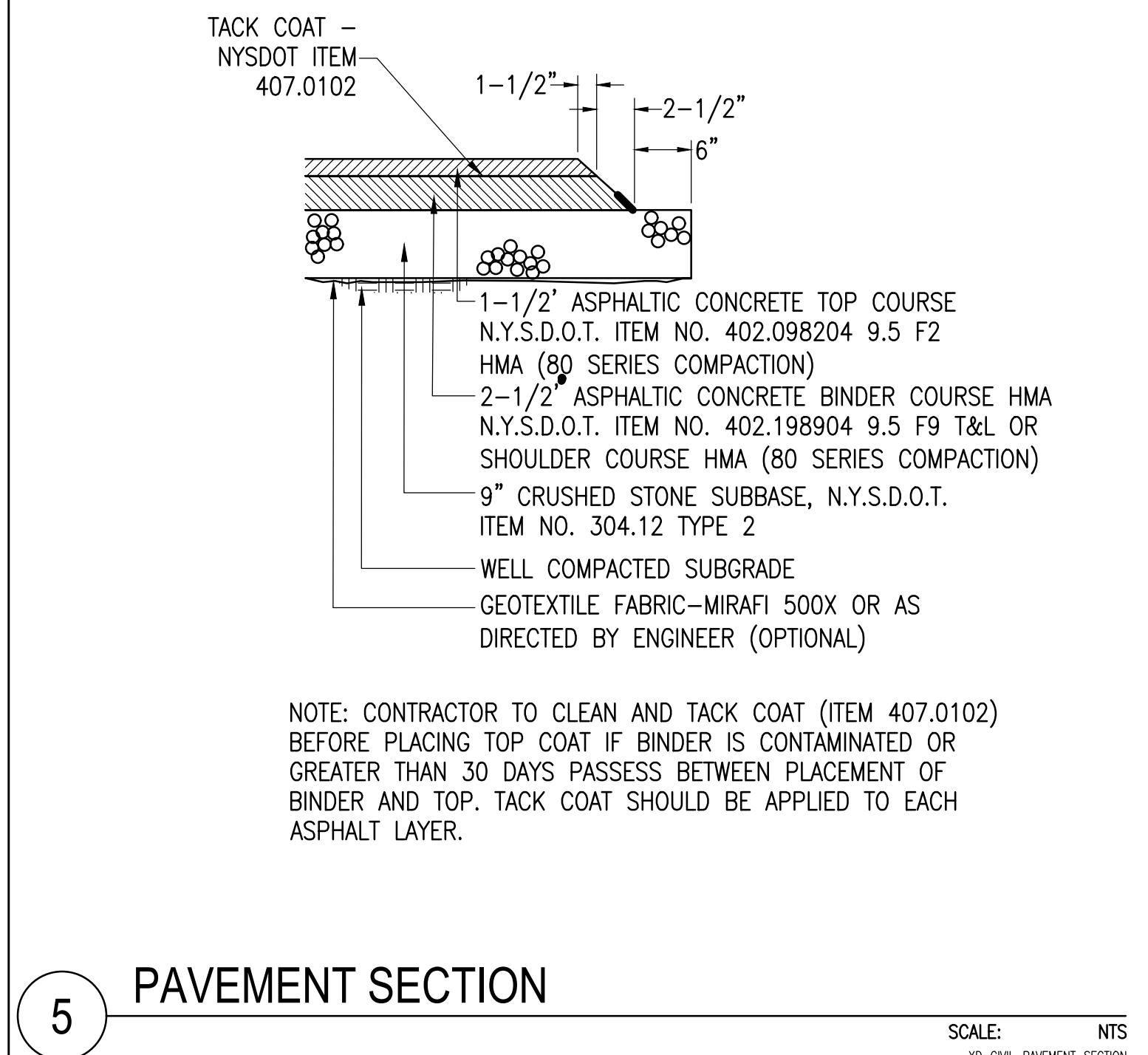
3 STORM PIPE

SCALE: NTS  
XD\_CIVIL\_STORM\_PIPE 04-01-21



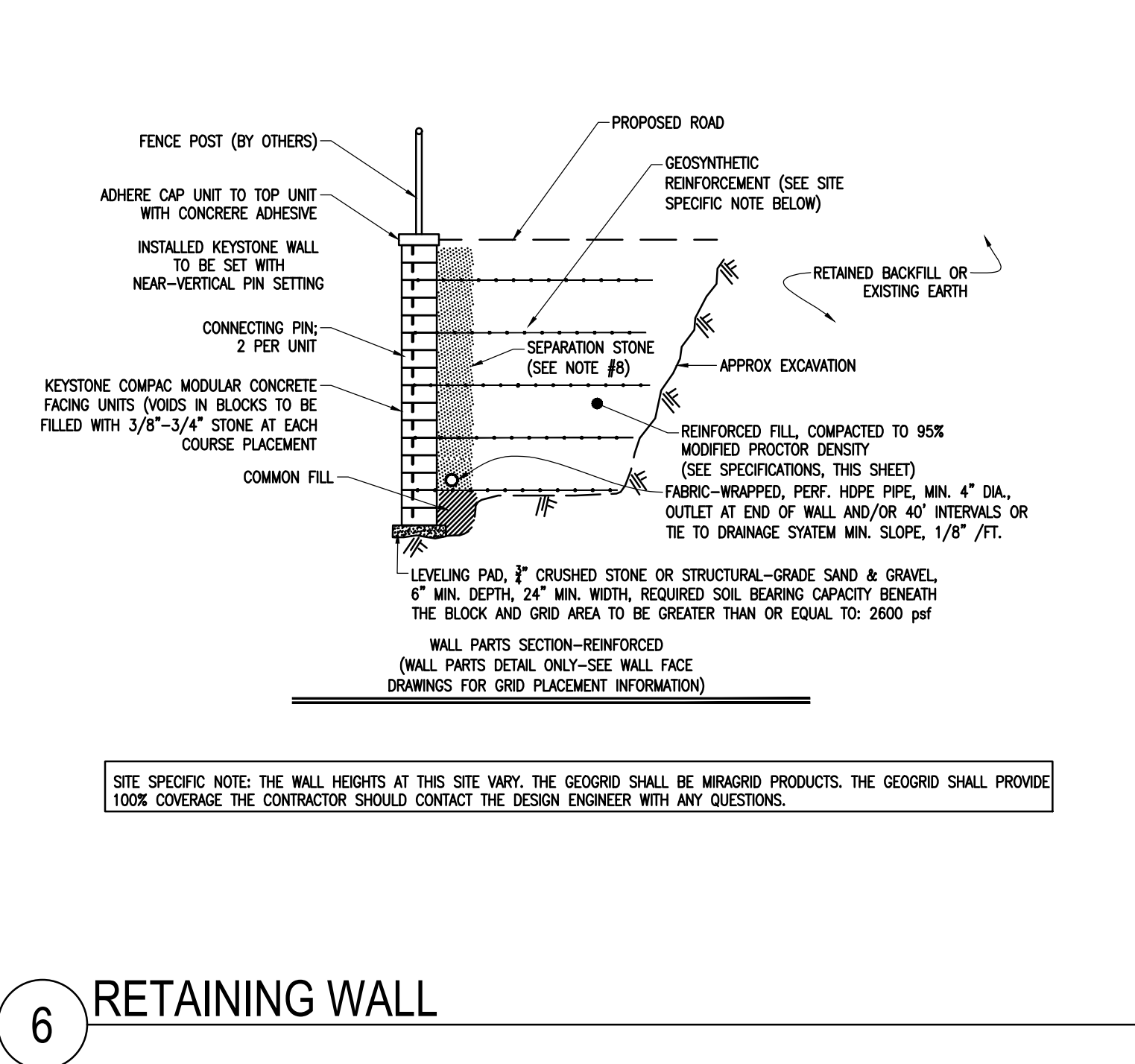
4 PIPE OUTLET PROTECTION

SCALE: NTS  
XD\_CIVIL\_PIPE\_OUTLET\_PROTECTION 04-1-21



5 PAVEMENT SECTION

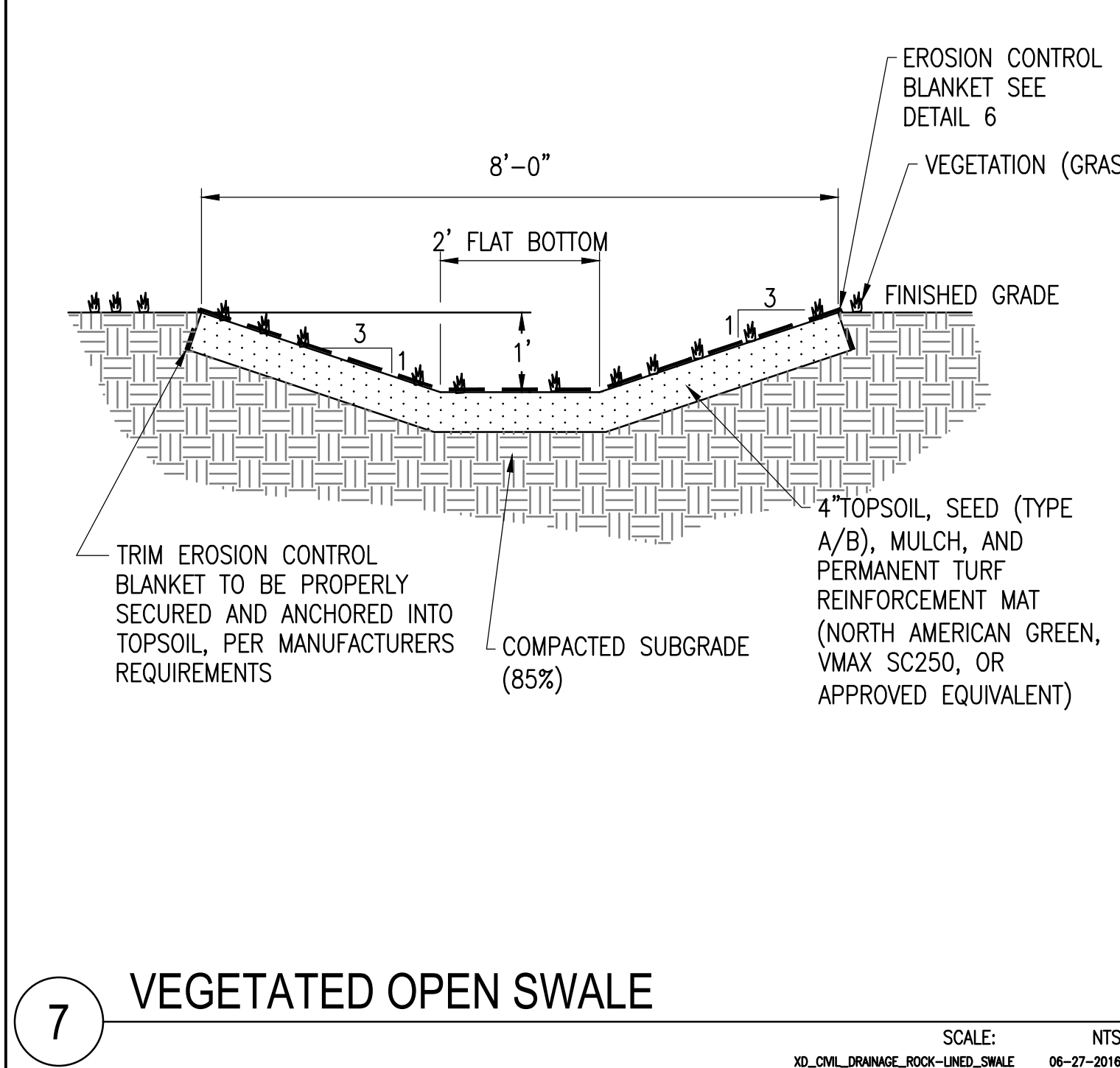
SCALE: NTS  
XD\_CIVIL\_PAVEMENT\_SECTION



6 RETAINING WALL

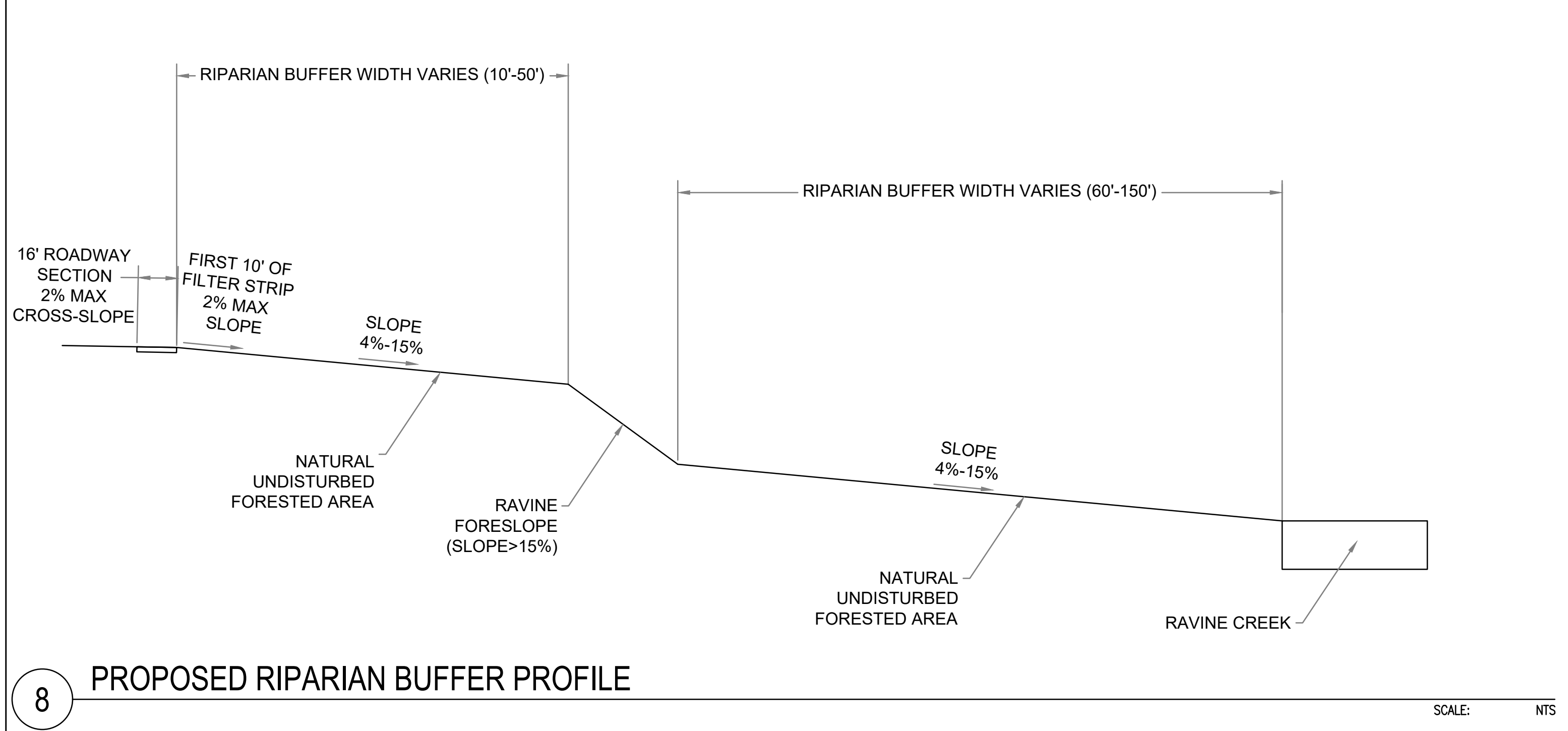
SCALE: NTS

GENERAL NOTE:  
1 STRIP ALL VEGETATION, ORGANIC SOILS AND UNSUITABLE FILL SOILS FROM THE WALL AND GRID ALIGNMENT AREA.  
2 BENCH OUT ALL EXCAVATED SLOPES.  
3 DO NOT OVER EXCAVATE UNLESS DIRECTED TO DO SO BY THE OWNER'S SITE REPRESENTATIVE IN ORDER TO REMOVE UNSUITABLE SOIL. IF OVEREXCAVATING TO IMPROVE BEARING CAPACITY, THE EXCAVATION SHALL EXTEND AT A 1H:1V SLOPE IN FRONT OF THE WALL FACE AND AT LEAST AS FAR BEHIND THE WALL AS THE LONGEST GEGRID LENGTH.  
4 THE OWNER'S SITE REPRESENTATIVE SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT.  
5 PER THE DESIGN STANDARDS AND PARAMETERS.  
6 LEVELING PAD SHALL CONSIST OF COMPACTED, STRUCTURAL-GRADE SAND & GRAVEL (OR 3/4\"/>



7 VEGETATED OPEN SWALE

SCALE: NTS  
XD\_CIVIL\_DRAINAGE\_ROCK-LINED\_SWALE 06-27-2016



8 PROPOSED RIPARIAN BUFFER PROFILE

SCALE: NTS

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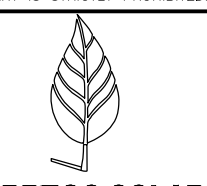
NYSDA SUBMISSION  
2621 STATE HIGHWAY 5S SOLAR PROJECT  
2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

PROJECT NUMBER:  
108-4862

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	2/10/21	DC	GG	SITE USE PERMIT SET
	04/05/21	DC	GG	NYS DOT PERM 33-COM
	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

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**BORREGO SOLAR**  
55 TECHNOLOGY DRIVE, SUITE 102  
LOWELL, MA 01851  
PHONE: (978) 808-4273  
FAX: (978) 843-6778  
WWW.BORREGOSOLAR.COM

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NYSDOT SUBMISSION  
 2621 STATE HIGHWAY 5S SOLAR PROJECT  
 2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

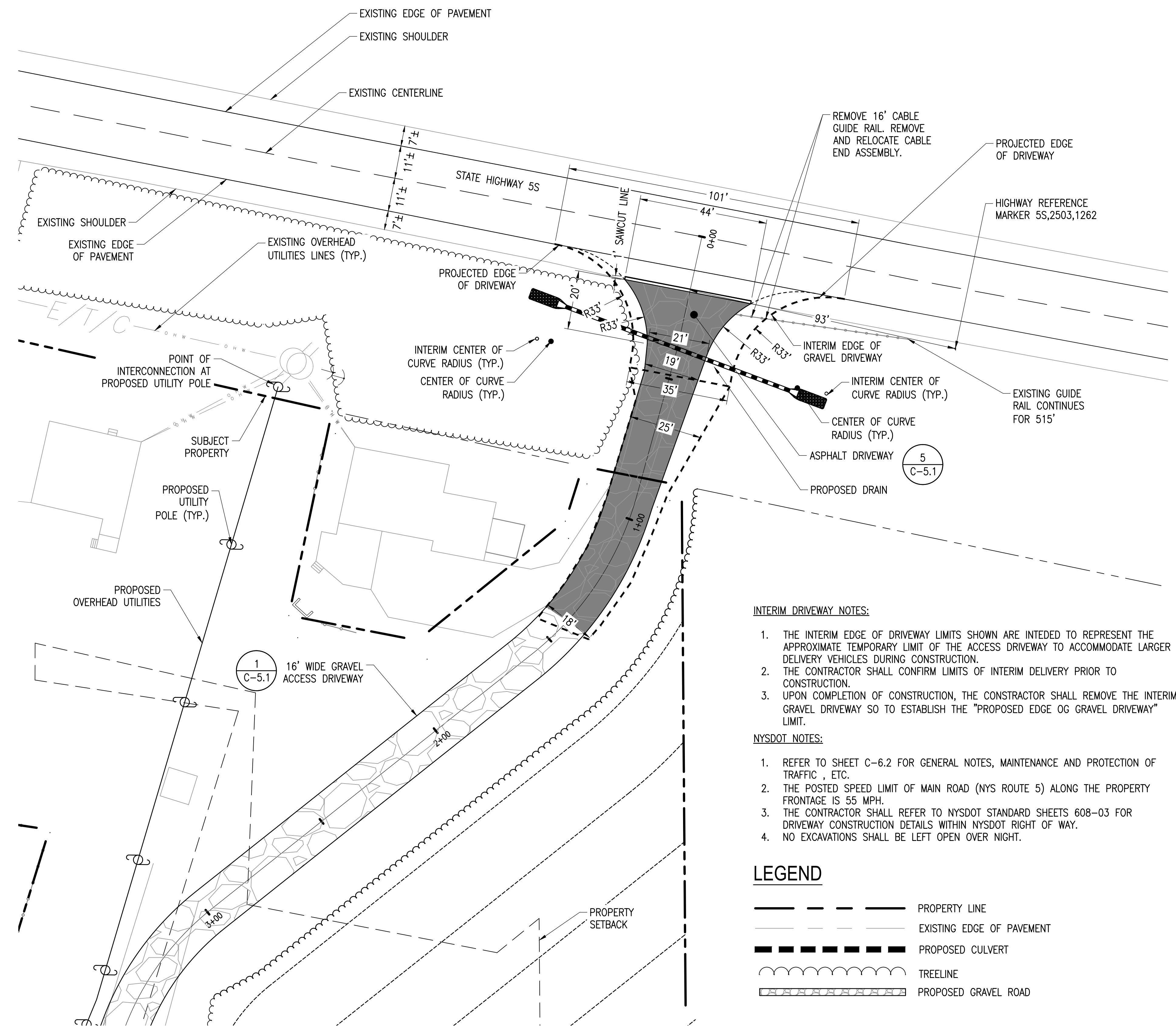
PROJECT NUMBER:  
108-4862

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	2/10/21	DC	GG	SITE USE PERMIT SET
	04/05/21	DC	GG	NYSDOT PERM 33-COM
	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

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**C-6.0**  
DRIVEWAY LAYOUT PLAN

SIGHT DISTANCES  
EAST: >1400 FT  
WEST: >1500 FT



**INTERIM DRIVEWAY NOTES:**

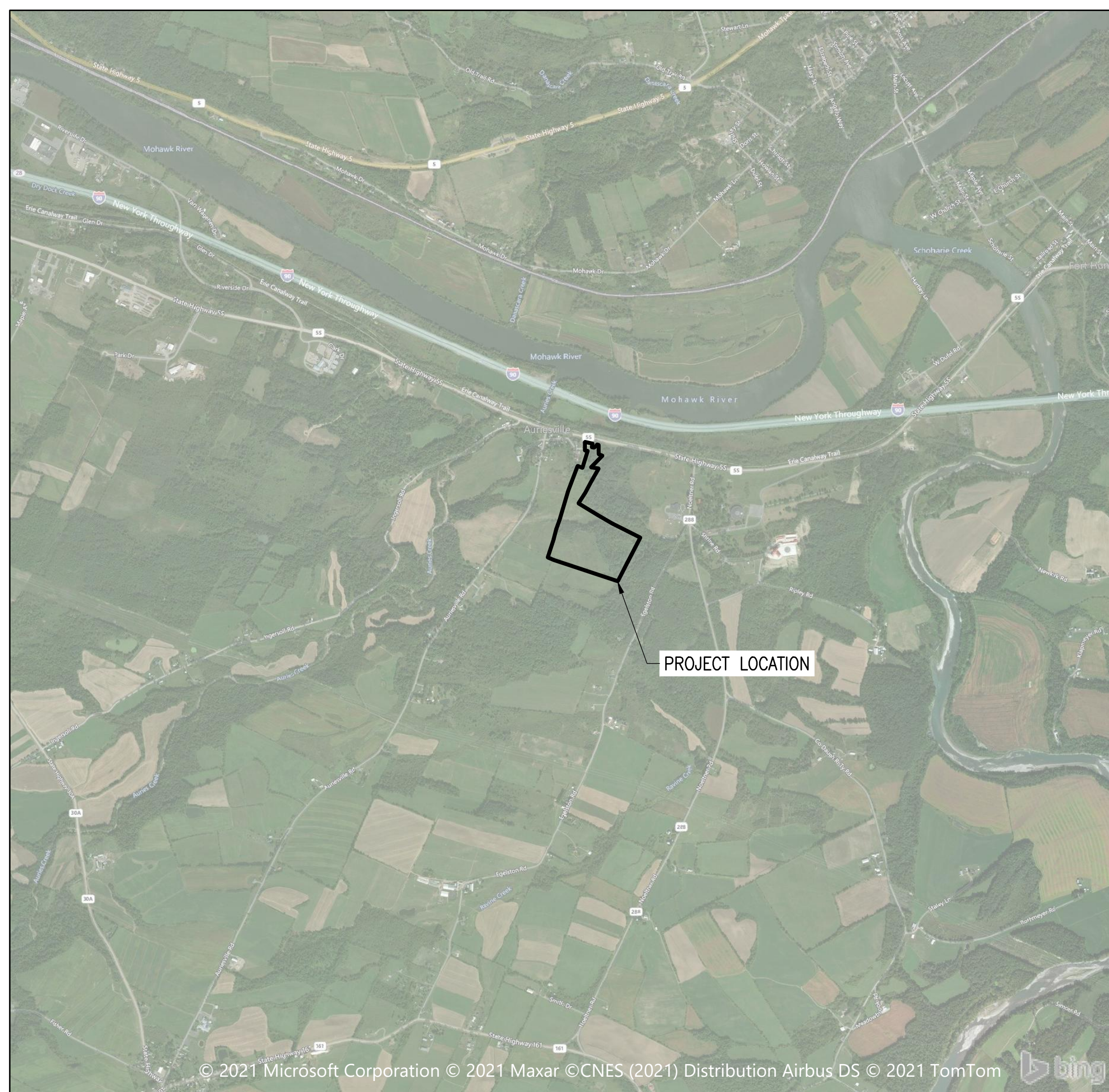
1. THE INTERIM EDGE OF DRIVEWAY LIMITS SHOWN ARE INTENDED TO REPRESENT THE APPROXIMATE TEMPORARY LIMIT OF THE ACCESS DRIVEWAY TO ACCOMMODATE LARGER DELIVERY VEHICLES DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL CONFIRM LIMITS OF INTERIM DELIVERY PRIOR TO CONSTRUCTION.
3. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE INTERIM GRAVEL DRIVEWAY SO TO ESTABLISH THE "PROPOSED EDGE OF GRAVEL DRIVEWAY" LIMIT.

**NYSDOT NOTES:**

1. REFER TO SHEET C-6.2 FOR GENERAL NOTES, MAINTENANCE AND PROTECTION OF TRAFFIC, ETC.
2. THE POSTED SPEED LIMIT OF MAIN ROAD (NYS ROUTE 5) ALONG THE PROPERTY FRONTAGE IS 55 MPH.
3. THE CONTRACTOR SHALL REFER TO NYSDOT STANDARD SHEETS 608-03 FOR DRIVEWAY CONSTRUCTION DETAILS WITHIN NYSDOT RIGHT OF WAY.
4. NO EXCAVATIONS SHALL BE LEFT OPEN OVER NIGHT.

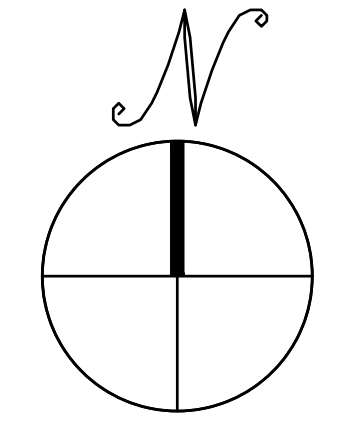
**LEGEND**

- — — — — PROPERTY LINE
- — — — — EXISTING EDGE OF PAVEMENT
- — — — — PROPOSED CULVERT
- — — — — TREELINE
- — — — — PROPOSED GRAVEL ROAD



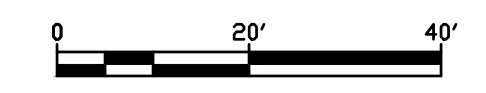
**GENERAL PLAN NOTES**

1. ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
2. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
3. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
4. MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE CURRENT NATIONAL MUTCD WITH NYS SUPPLEMENT, SECTION 619 OF THE CURRENT NYSDOT STANDARD SPECIFICATIONS. THESE PLANS AND AS ORDERED BY THE ASSISTANT RESIDENT ENGINEER. ON A NYSDOT CONSTRUCTION PROJECT, MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THESE PLANS AND BE IN ACCORDANCE WITH THE NYSDOT CONTRACT DOCUMENTS AS DEEMED NECESSARY BY THE ENGINEER-IN-CHARGE.
5. NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S ASSISTANT RESIDENT ENGINEER AT THE NUMBER BELOW, THREE (3) WORK DAYS PRIOR TO WORKING WITHIN THE STATE RIGHT-OF-WAY. CLINT KING, (518)-853-3441.
6. ALL MATERIALS USED WITHIN THE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION STANDARD SHEETS.
7. QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 401 OF THE STANDARD SPECIFICATIONS. ALL ASPHALT PRODUCED AS PART OF SECTION 401 WILL BE PAID AT A FINAL QUANTITY ADJUSTMENT FACTOR 1.0. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.
8. NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO START OF PROJECT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
9. HAZARDOUS WASTE NOTIFICATION - THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS "AS IS" CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER. SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE PERMITTEE IS REQUIRED TO REMOVE, MODIFY, OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURES, FEATURES OR IMPEDIMENTS IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS APPROVED BY THE DEPARTMENT OF TRANSPORTATION.
10. ROADWORK REPORTING FORM SHALL BE SUBMITTED 7 DAYS PRIOR TO ANY WORK.
11. ANY WORK ZONE INTRUSION SHALL BE REPORTED TO THE TMC, (315)-733-2111, AND THE POLICE IMMEDIATELY.
12. DIGSAFE SHALL BE NOTIFIED PRIOR TO ANY EXCAVATION.



**DRIVEWAY LAYOUT PLAN**

SCALE: 1" = 20'





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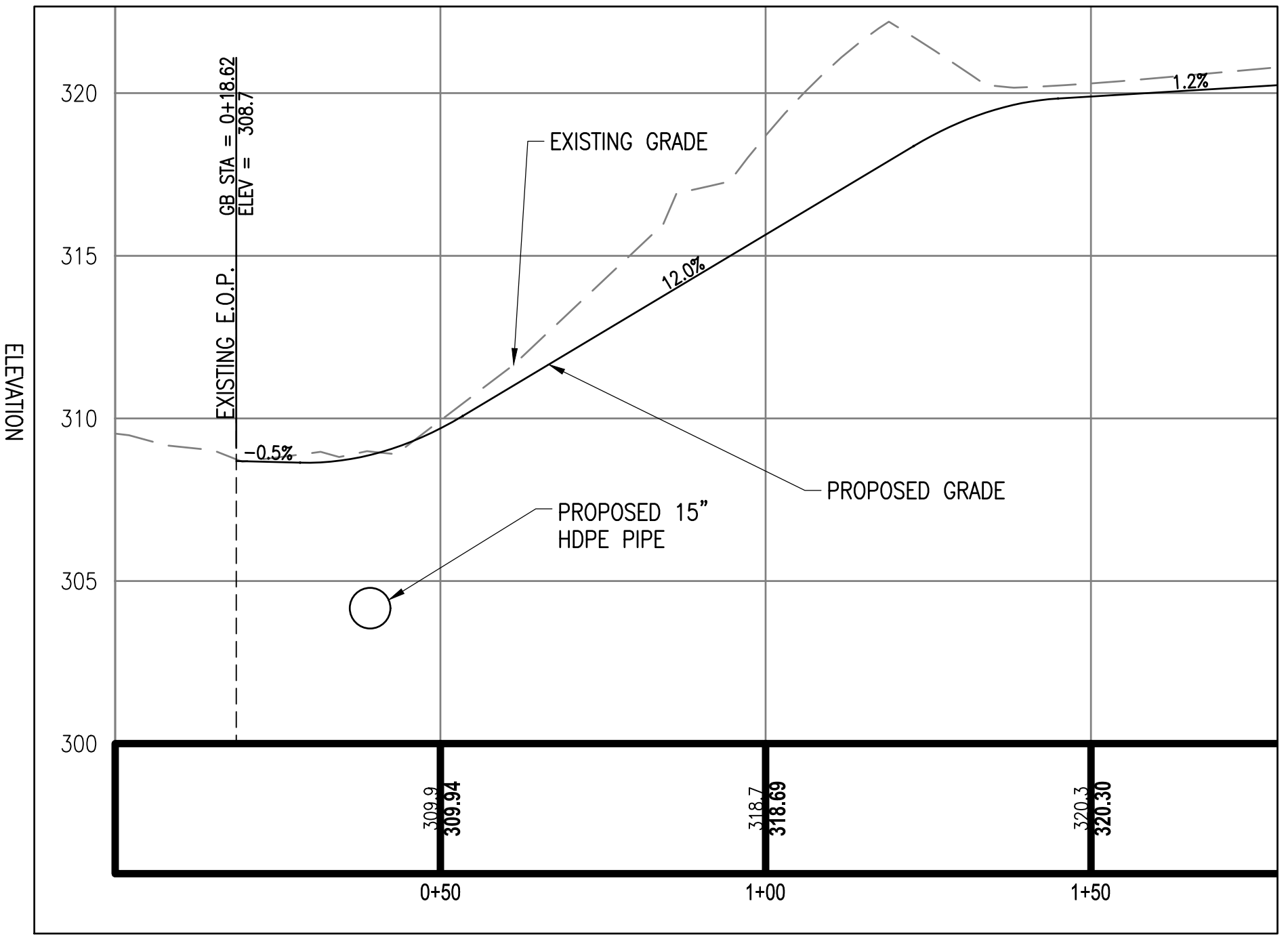
NYSDOT SUBMISSION  
2621 STATE HIGHWAY 5S SOLAR PROJECT  
2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

PROJECT NUMBER:  
108-4862

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	2/10/21	DC	GG	SITE USE PERMIT SET
	04/05/21	DC	GG	NYSDOT PERM 33-COM
	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

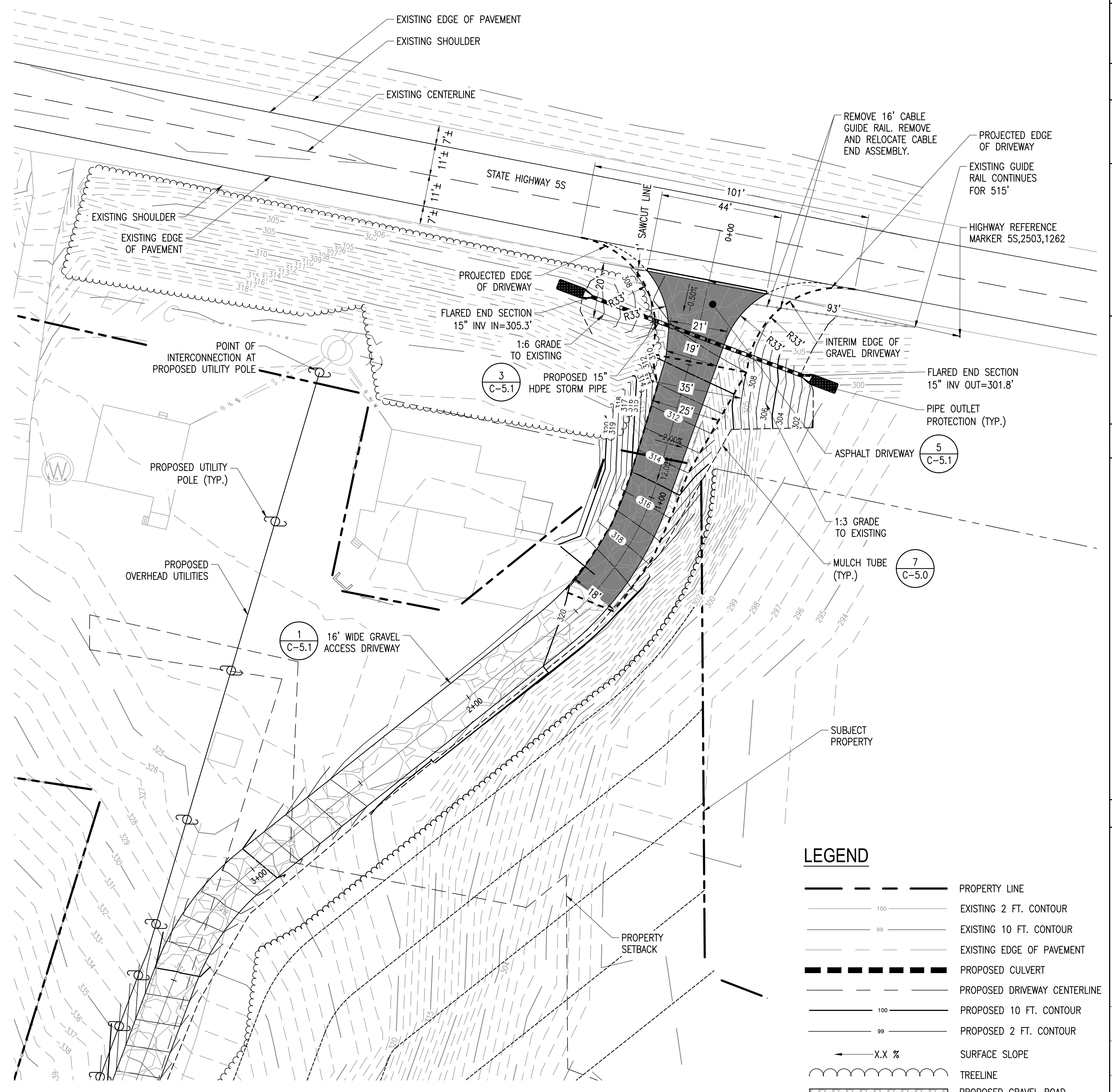
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-6.1**  
DRIVEWAY GRADING & UTILITY PLAN



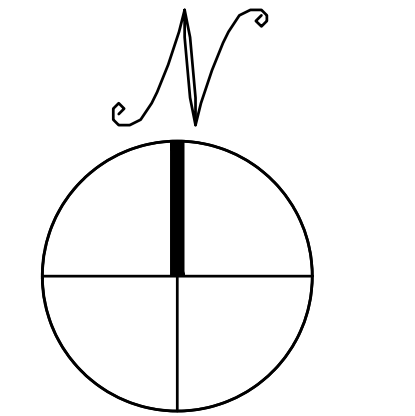
- NOTES:
- REFER TO SHEET C-6.0 FOR GENERAL HIGHWAY NOTES, MAINTENANCE AND PROTECTION OF TRAFFIC, ETC.
  - THE POSTED SPEED LIMIT OF MAIN ROAD (STATE HIGHWAY 5S) ALONG THE PROPERTY FRONTAGE IS 55 MPH.
  - THE CONTRACTOR SHALL REFER TO NYSDOT STANDARD SHEETS 608-03 FOR DRIVEWAY CONSTRUCTION DETAILS WITHIN NYSDOT RIGHT OF WAY.
  - NO EXCAVATIONS SHALL BE LEFT OPEN OVER NIGHT.

- NYSDOT EARTHWORK, TOPSOIL, AND TURF SPECIFICATIONS
- EARTHWORK: PERFORM EXCAVATION & BACKFILL WITHIN NYSDOT RIGHT-OF-WAY ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 200 (TYP.)
  - NYSDOT TOPSOIL: TOPSOIL PLACED WITHIN RIGHT-OF-WAY SHALL CONFORM TO NYSDOT ITEM# 610.14X
  - ESTABLISH TURF: GRASS TURF ESTABLISHMENT WITHIN NYSDOT RIGHT-OF-WAY SHALL CONFORM TO NYSDOT ITEM# 610.16X



**LEGEND**

	PROPERTY LINE
	EXISTING 2 FT. CONTOUR
	EXISTING 10 FT. CONTOUR
	EXISTING EDGE OF PAVEMENT
	PROPOSED CULVERT
	PROPOSED DRIVEWAY CENTERLINE
	PROPOSED 10 FT. CONTOUR
	PROPOSED 2 FT. CONTOUR
	SURFACE SLOPE
	TREELINE
	PROPOSED GRAVEL ROAD



**DRIVEWAY GRADING & UTILITY PLAN**

SCALE: 1" = 20'  
0 20' 40'



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**BORREGO SOLAR**  
 55 TECHNOLOGY DRIVE, SUITE 102  
 CORNELL, NY 14851  
 PHONE: (848) 808-4273  
 FAX: (848) 843-6778  
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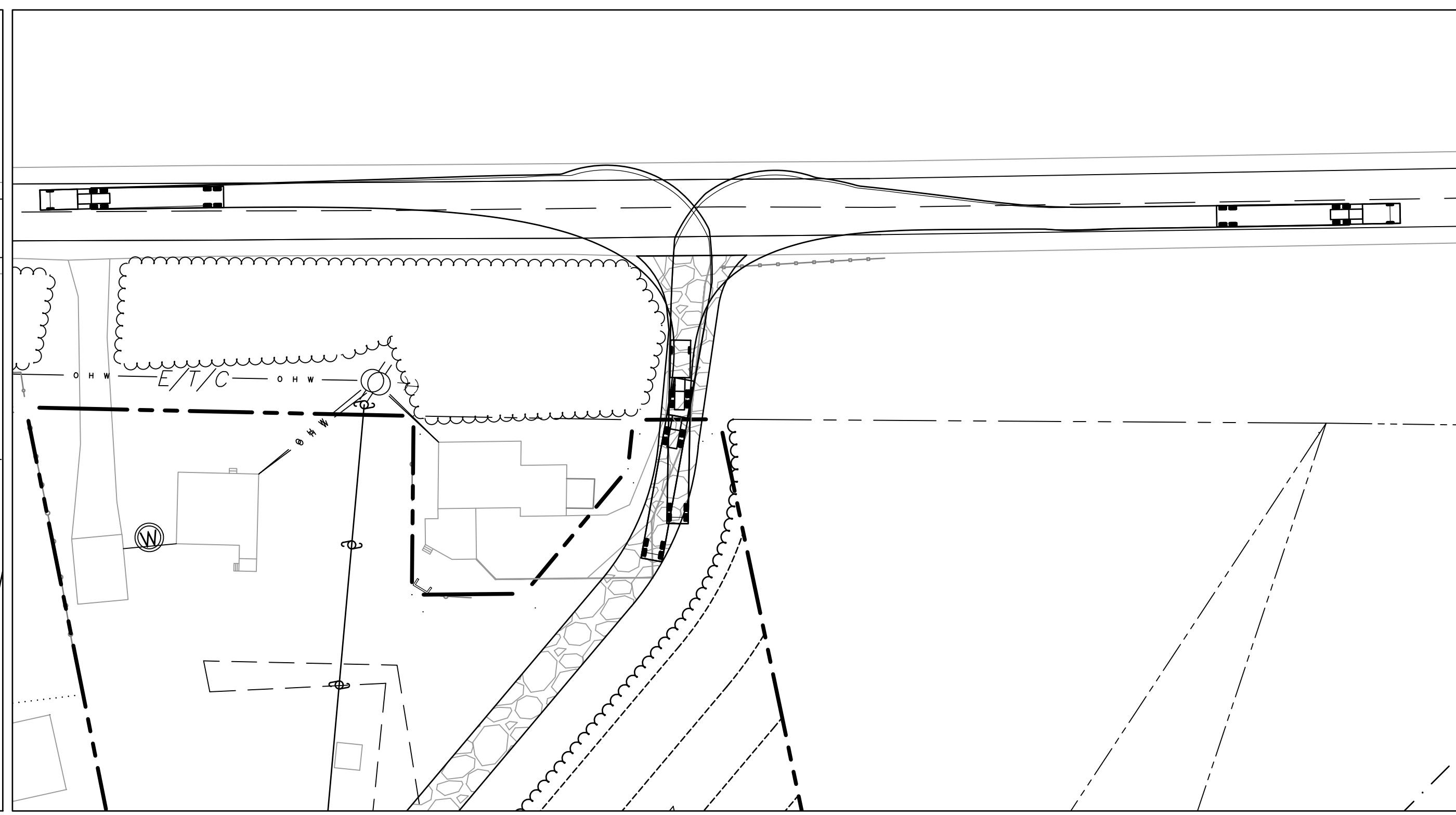
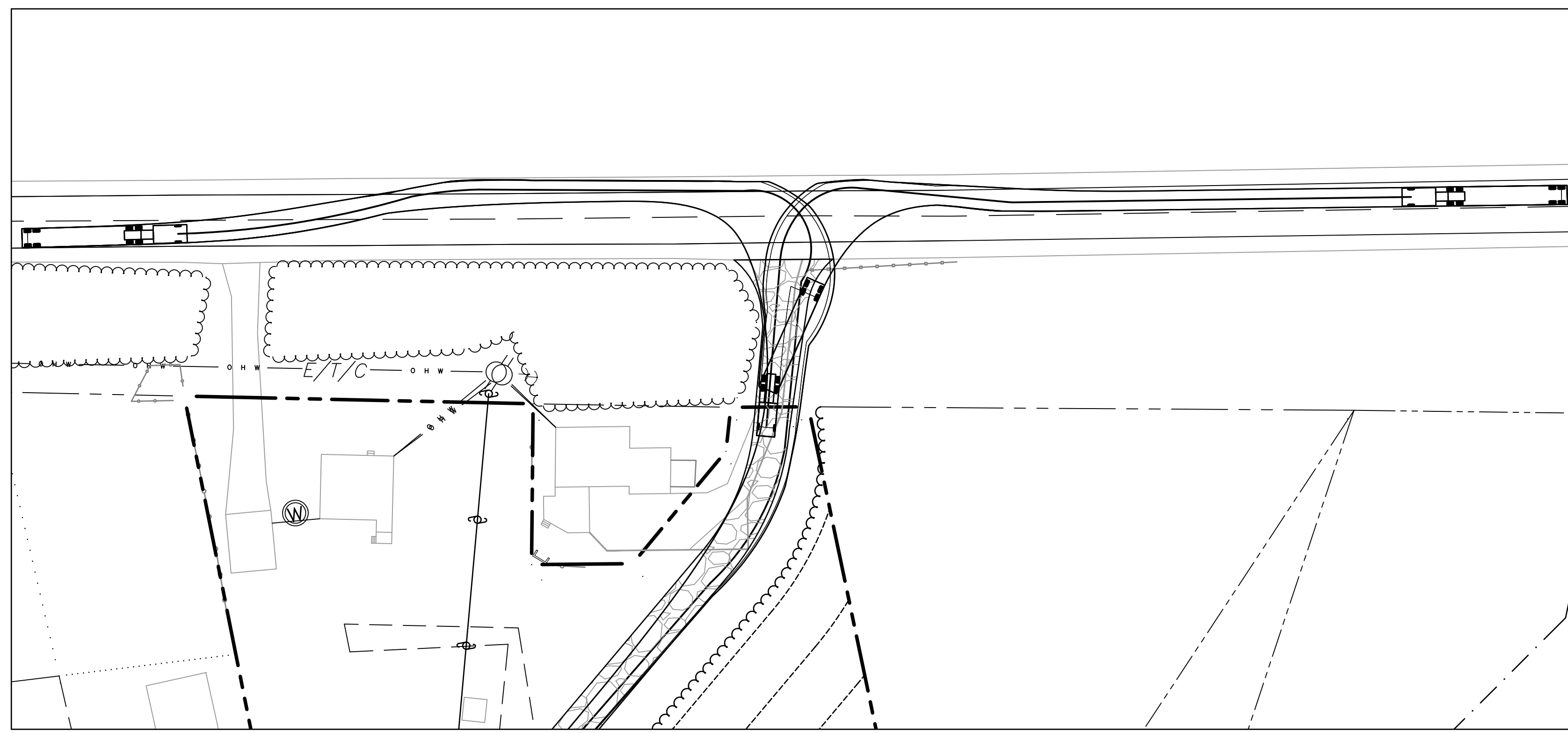
NYSDOT SUBMISSION  
 2621 STATE HIGHWAY 5S SOLAR PROJECT  
 2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

PROJECT NUMBER:  
 108-4862

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
2/10/21	DC	GG	GG	NET USE PERMIT SET
04/05/21	DC	GG	GG	NYSDOT PERM 33-COM
04/09/21	DC	GG	GG	PLANNING BOARD SUBMISSION
06/10/21	DC	GG	GG	PLANNING BOARD SUBMISSION

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" x 36"

**C-6.3**  
 DRIVEWAY DETAILS  
 (2 OF 2)



**1 TURNING RADIUS PLAN - WB-67 VEHICLE ENTERING SITE**

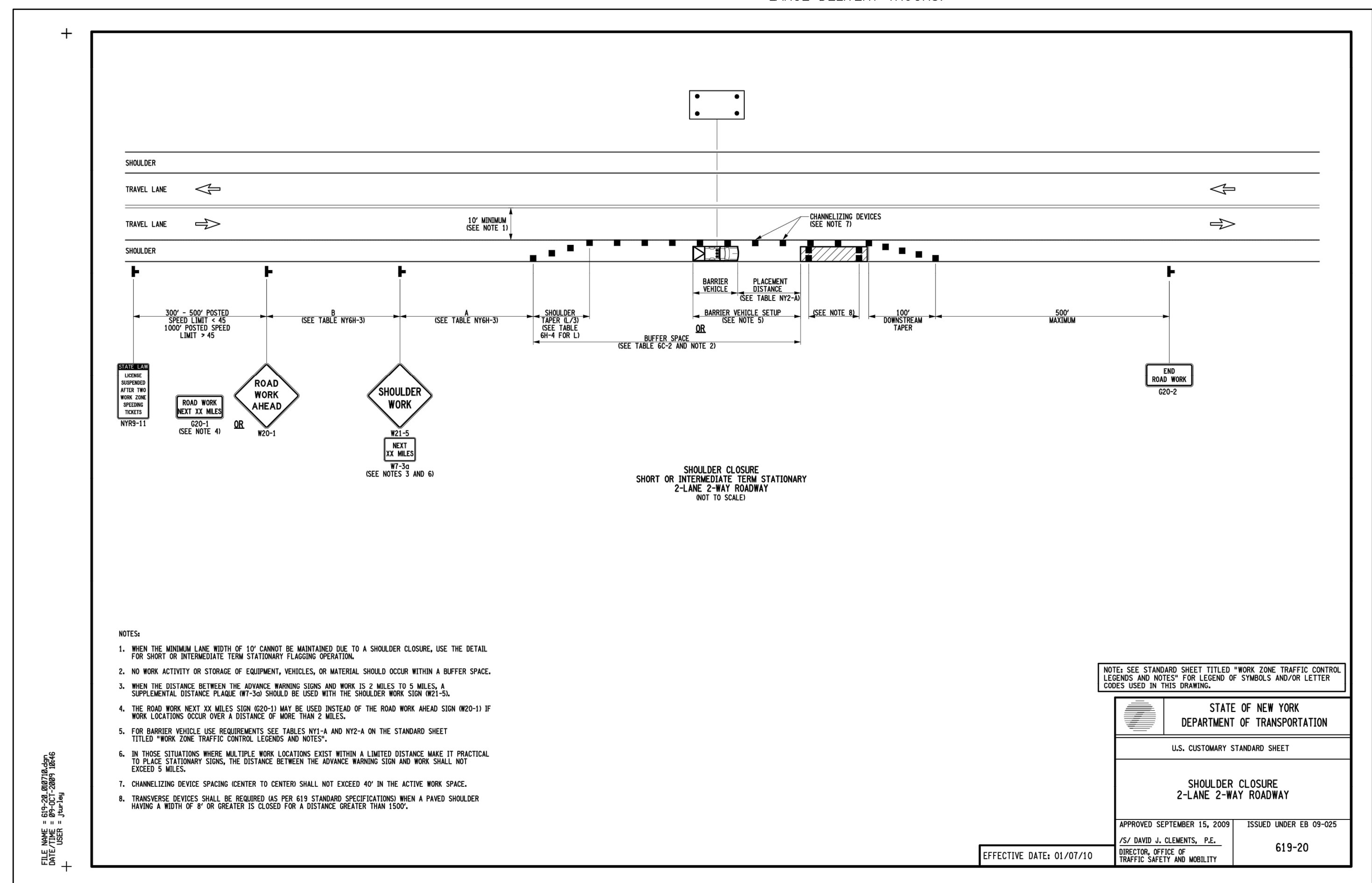
SCALE: 1" = 40'

- NOTE:  
 1. FLAGGERS WILL CONTROL TRAFFIC ON ROUTE 5S FOR INCOMING AND OUTGOING LARGE DELIVERY TRUCKS.

**2 TURNING RADIUS PLAN - WB-67 VEHICLE EXITING SITE**

SCALE: 1" = 40'

- NOTE:  
 1. FLAGGERS WILL CONTROL TRAFFIC ON ROUTE 5S FOR INCOMING AND OUTGOING LARGE DELIVERY TRUCKS.



- NOTES:  
 1. WHEN THE MINIMUM LINE WIDTH OF 10' CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION.  
 2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.  
 3. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK IS 2 MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLATE (W-50) SHOULD BE USED WITH THE SHOULDER WORK SIGN (W21-5L).  
 4. THE ROAD WORK NEXT 1/2 MILE SIGN (W20-2) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.  
 5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES W11-A AND W12-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL, LEGENDS AND NOTES".  
 6. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.  
 7. CHANNELIZING DEVICE SPACING CENTER TO CENTER SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.  
 8. TRANSVERSE DEVICES SHALL BE REQUIRED AS PER 619 STANDARD SPECIFICATIONS WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

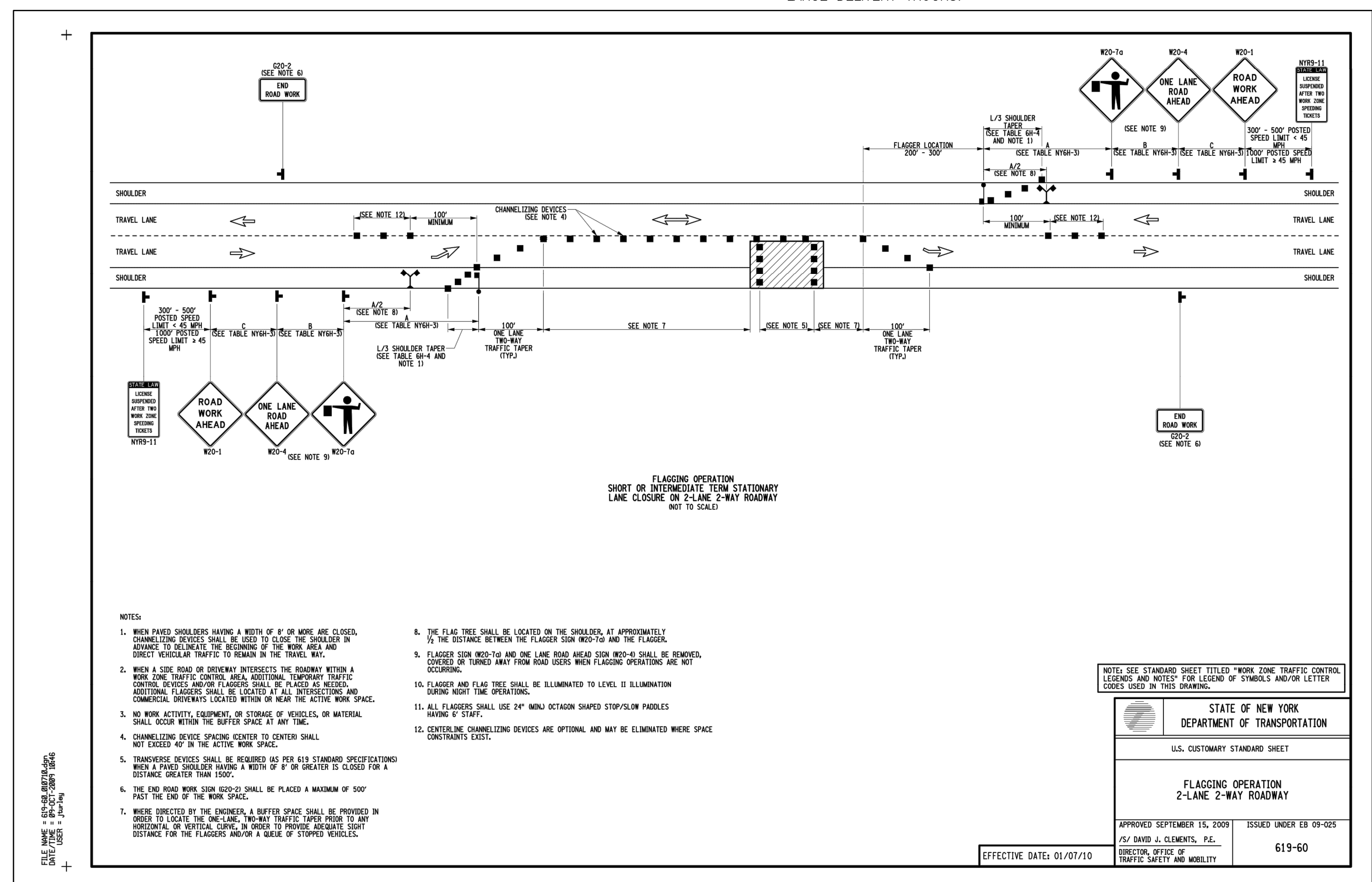
NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL, LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK  
 DEPARTMENT OF TRANSPORTATION  
 U.S. CUSTOMARY STANDARD SHEET

SHOULDER CLOSURE  
 2-LANE 2-WAY ROADWAY

APPROVED SEPTEMBER 15, 2009 ISSUED UNDER EB 09-025  
 S/ DAVID J. CLEMENTS, P.E.  
 DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY 619-20

EFFECTIVE DATE: 01/07/10



- NOTES:  
 1. WHEN PAVED SHOULDER HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND CORRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.  
 2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL SYSTEMS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.  
 3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.  
 4. CHANNELIZING DEVICE SPACING CENTER TO CENTER SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.  
 5. TRANSVERSE DEVICES SHALL BE REQUIRED AS PER 619 STANDARD SPECIFICATIONS WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.  
 6. THE END ROAD WORK SIGN (W20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.  
 7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO CLEAR THE ONE-LANE TWO-WAY TRAFFIC SPACE PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.  
 8. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.  
 9. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COULDED OR TURNED AWAY FROM ROAD USES WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.  
 10. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL 1 ILLUMINATION DURING NIGHT TIME OPERATIONS.  
 11. ALL FLAGGERS SHALL USE 24" MINUS OCTAGON SHAPED STOP/SLOW PADDLES HAVING 4" STAFF.  
 12. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL, LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK  
 DEPARTMENT OF TRANSPORTATION  
 U.S. CUSTOMARY STANDARD SHEET

FLAGGING OPERATION  
 2-LANE 2-WAY ROADWAY

APPROVED SEPTEMBER 15, 2009 ISSUED UNDER EB 09-025  
 S/ DAVID J. CLEMENTS, P.E.  
 DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY 619-60

EFFECTIVE DATE: 01/07/10

**DRIVEWAY DETAILS (2 OF 2)**

SCALE: AS SHOWN

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**BORREGO SOLAR**  
 55 TECHNOLOGY DRIVE, SUITE 102  
 CORVALLIS, WA 97331  
 PHONE: (509) 838-4273  
 FAX: (509) 843-6778  
 WWW.BORREGOSOLAR.COM

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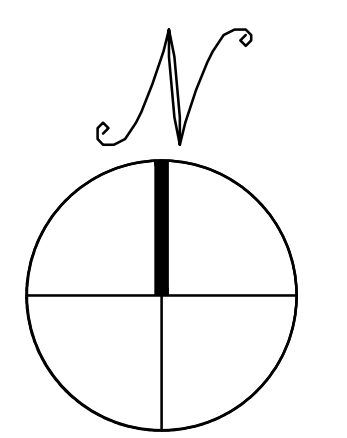
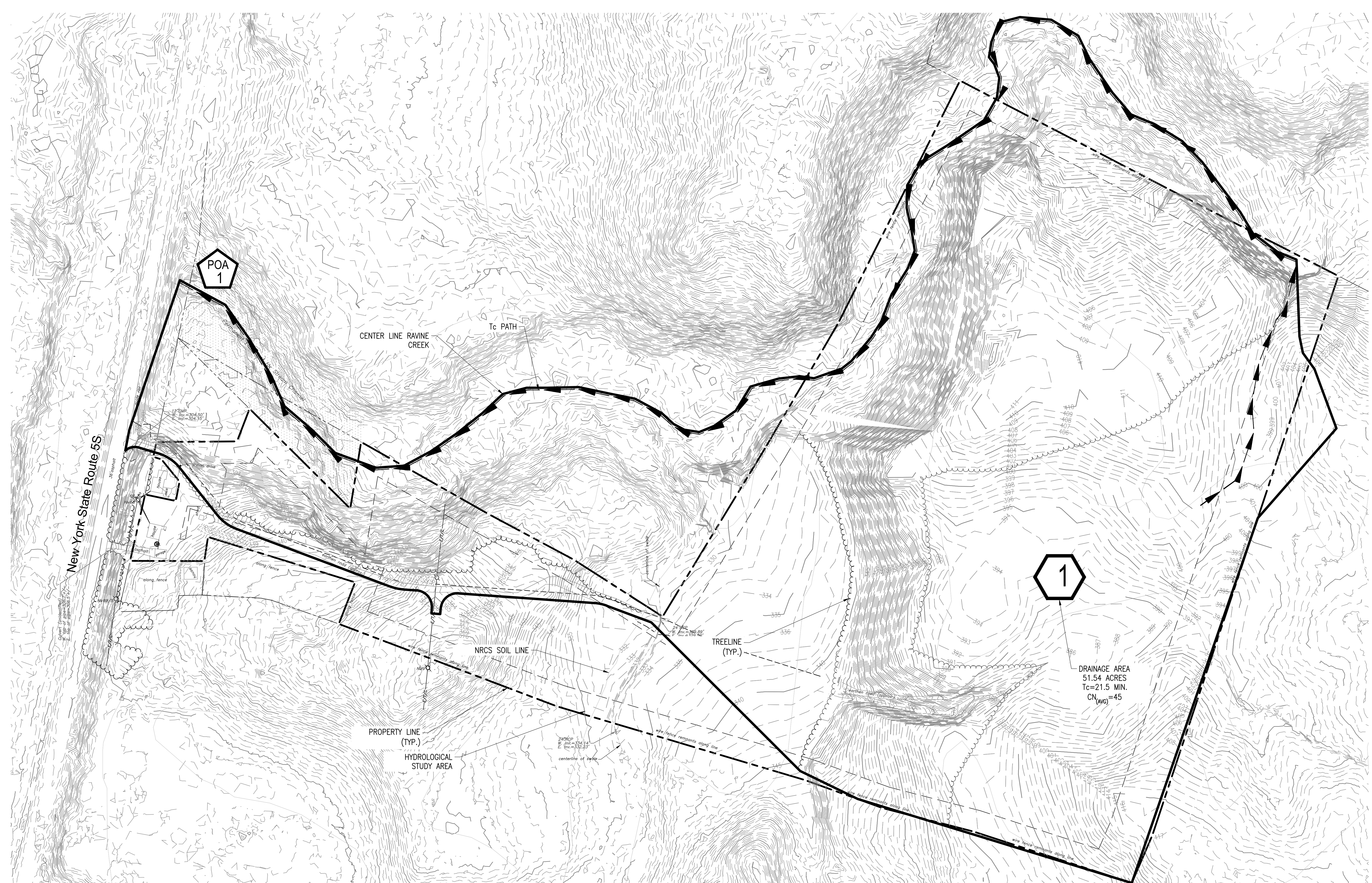
**NYSDOT SUBMISSION**  
 2621 STATE HIGHWAY 5S SOLAR PROJECT  
 2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

PROJECT NUMBER:  
108-4862

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	2/10/21	DC	GG	SITE USE PERMIT SET
	04/05/21	DC	GG	NYSDOT PERM 33-COM
	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" x 36"

**W-1.0**  
PRE-DEVELOPMENT PLAN



**PRE-DEVELOPMENT PLAN**

SCALE: 1" = 100'  
 0 100' 200'

**LEGEND**

	SUBCATCHMENT LINE
	SUBCATCHMENT AREA
	POINT OF ANALYSIS
	TC PATH

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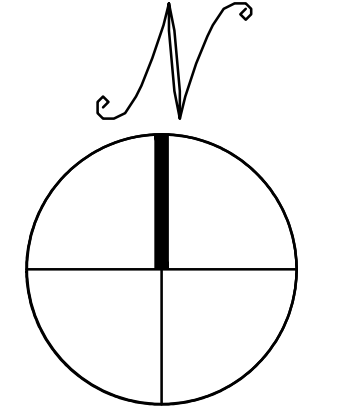
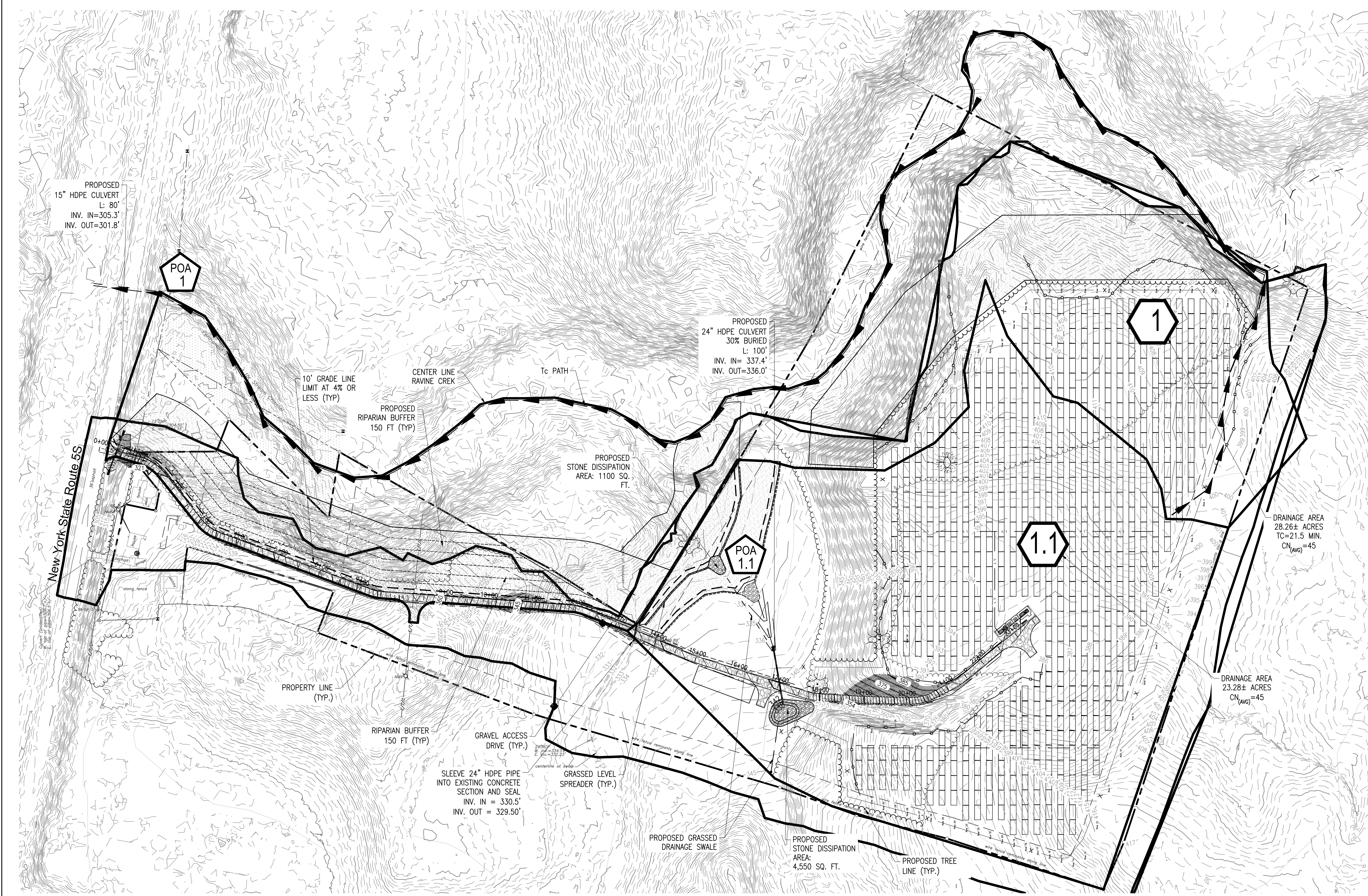
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 2621 STATE HIGHWAY 5S, FULTONVILLE, NY, 12072

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	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**W-2.0**  
POST-DEVELOPMENT PLAN



**POST DEVELOPMENT PLAN**

SCALE: 1" = 100'

**LEGEND**

	SUBCATCHMENT LINE
	SUBCATCHMENT AREA
	POINT OF ANALYSIS
	TC PATH

SHEET NOTES

GENERAL PLACARD NOTES:

1. NOT ALL PLACARDS DESCRIBED IN THESE NOTES MAY APPLY TO THIS PROJECT.
2. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE ALL PLACARDS AS REQUIRED BY THE NEC, LOCAL FIRE DEPARTMENT, THE AUTHORITY HAVING JURISDICTION, AND LOCAL UTILITY REQUIREMENTS. PLACARDS IN ADDITION TO THOSE SHOWN HERE MAY BE REQUIRED BY THE NEC AND ARE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR.
3. PLACARDS SHALL USE ARIAL OR SIMILAR FONT, NON-BOLD.
4. FONT SIZES SHALL BE THE MINIMUM SHOWN IN THESE DRAWINGS.
5. PLACARDS SHALL HAVE LETTERING IN CAPITAL LETTERS.
6. PLACARDS SHALL BE WEATHER RESISTANT AND SUITABLE FOR THE ENVIRONMENT AND COMPLY WITH ANSI Z535.4-2011.
7. PLACARDS SHALL BE ADHERED WHEN POSSIBLE AND MEET WITH UL969 STANDARDS. IF MECHANICALLY AFFIXED TO EQUIPMENT, USE RIVETS OR SCREWS. SEALANTS AND GASKETED HARDWARE SHALL BE USED TO MAINTAIN EQUIPMENT LISTINGS WHERE REQUIRED. NEMA 4R EQUIPMENT SHALL NOT BE DRILLED.
8. SUBMITTALS REQUIRED FOR PLACARDS AND FOR ADHESIVES USED TO SECURE PLACARDS TO EQUIPMENT.
9. PLACARDS WITH MOUNTING HOLES SHOULD BE 1/8" THICKNESS AND HOLES SHOULD BE 1/2" INSIDE FROM THE EDGE.

EQUIPMENT ID PLACARDS:

1. SUBCONTRACTOR SHALL LABEL ALL ARRAYS, PULL BOXES, JUNCTION BOXES, COMBINER BOXES, DC SAFETY SWITCHES, CIRCUIT BREAKER SAFETY SWITCHES, MULTIPLE DISCONNECT SAFETY SWITCHES, DC CONTACTOR DISCONNECTS, REMOTE PV TIES, BI-POLAR ARRAY COMBINERS, INVERTERS, AC SAFETY SWITCHES, TRANSFORMERS, PANELBOARDS, CIRCUIT BREAKERS, SWITCHGEAR, RECTIFIERS, DATA MONITORING ENCLOSURES, AND METERING CABINETS. A PARTIAL LIST OF PLACARDS IS SHOWN HERE.
2. EQUIPMENT ID PLACARDS - THE FIRST TYPE OF EACH REQUIRED EQUIPMENT ID PLACARD IS SHOWN HERE. ELECTRICAL SUBCONTRACTOR SHALL GENERATE PLACARDS FOR EACH PIECE OF EQUIPMENT AND NUMBER ALL EQUIPMENT PER THE NAMING AND NUMBERING CONVENTION DEFINED IN THESE PLANS.
3. ARRAY ID PLACARD - SHALL BE AFFIXED TO THE REAR CORNERS OF EACH ARRAY AND NUMBERED PER PLANS. IF ATTACHING TO MODULE FRAME ADHESIVE SHALL BE USED; DO NOT DRILL OR RIVET THE MODULE FRAMES.

V17

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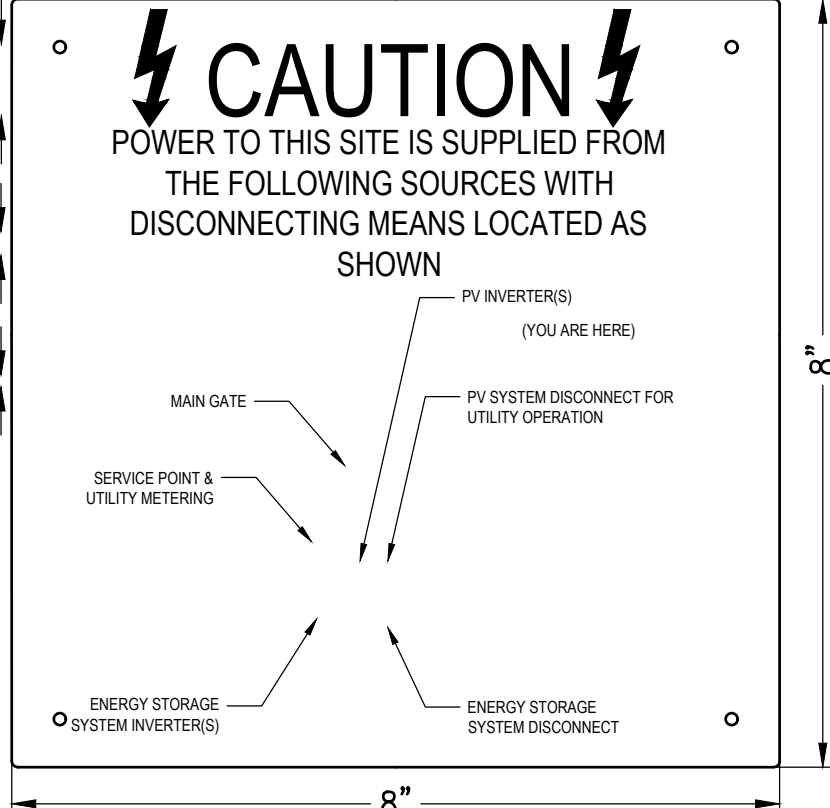
PROJECT NUMBER:  
108-4862

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
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	04/05/21	DC	GG	NYSDOT PERM 33-COM
	04/09/21	DC	GG	PLANNING BOARD SUBMISSION
	06/10/21	DC	GG	PLANNING BOARD SUBMISSION

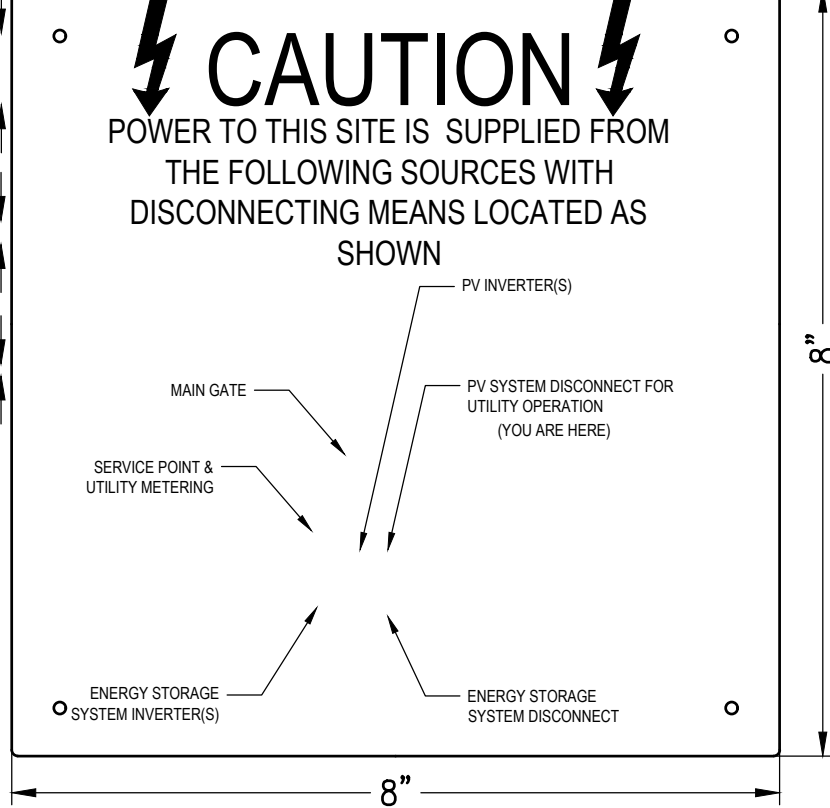
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

E-6.0  
PLACARDS

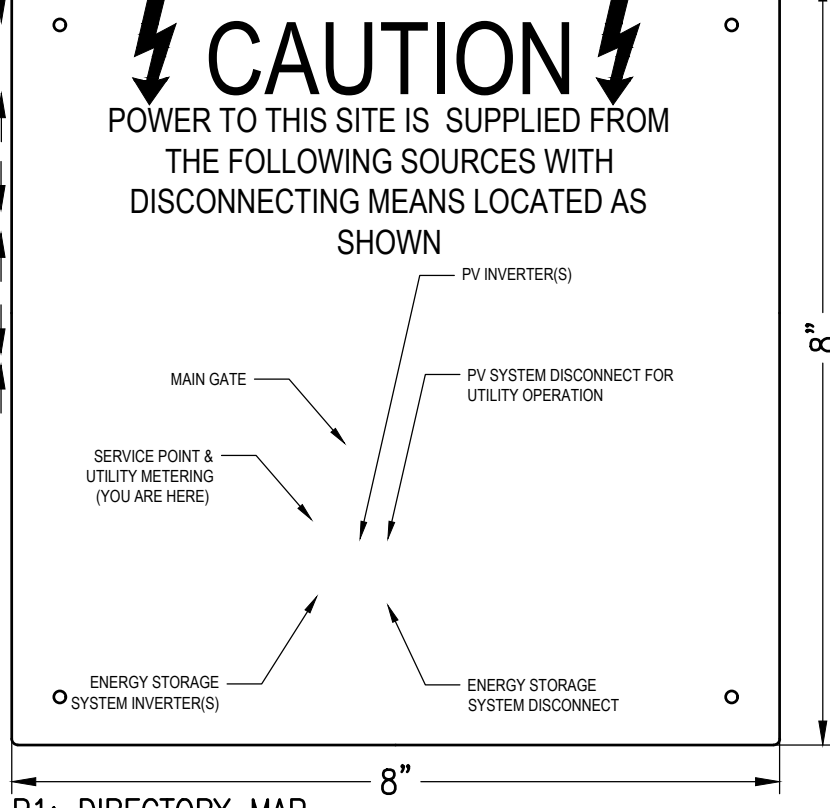
P1: DIRECTORY MAP  
LOCATION: EQUIPMENT PAD  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE



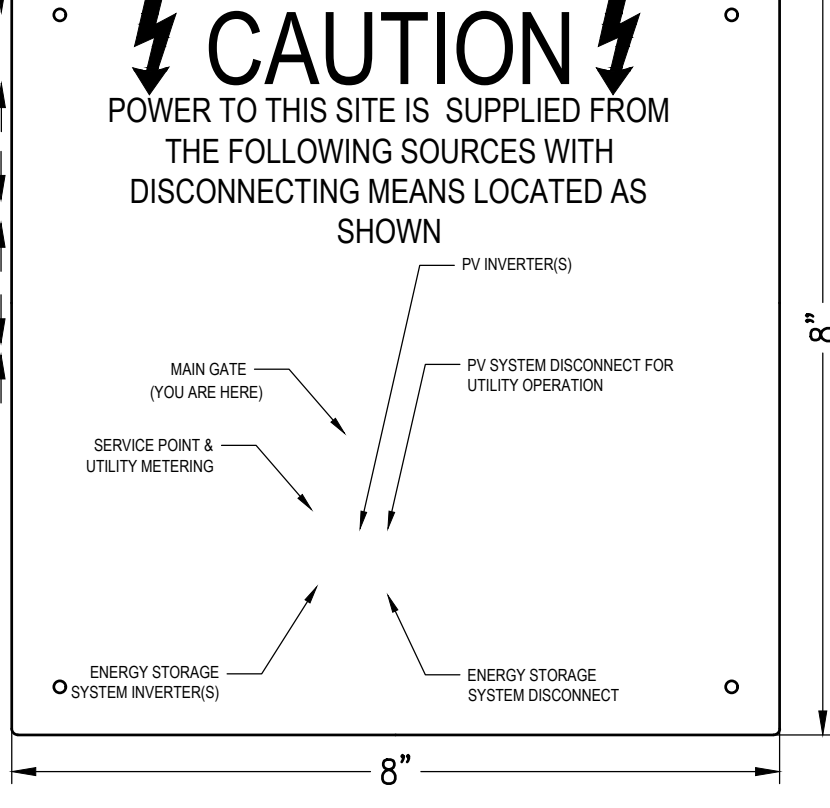
P1: DIRECTORY MAP  
LOCATION: AC DISCONNECT  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE



P1: DIRECTORY MAP  
LOCATION: UTILITY METER  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE



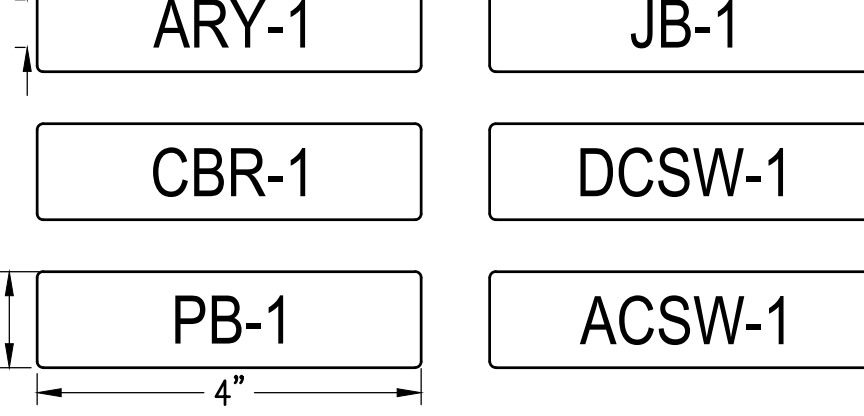
P1: DIRECTORY MAP  
LOCATION: MAIN GATE  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE



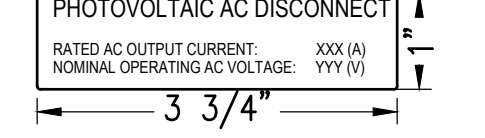
P2: BORREGO O&M CONTACT INFO  
LOCATION: UTILITY ACSW, POI, INV-#, DAS  
BACKGROUND COLOR: RED  
TEXT COLOR: WHITE



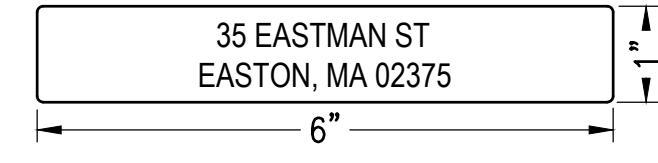
ARRAY AND EQUIPMENT ID  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE



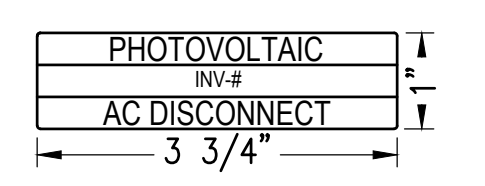
PAC1: UTILITY PHOTOVOLTAIC DISCONNECTING MEANS  
LOCATION: ACSW-X  
NEC: 690.54  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE  
HT P/N: 596-00892



PAC2: SITE ADDRESS  
LOCATION: UTILITY ACSW-X  
BACKGROUND COLOR: RED  
TEXT COLOR: WHITE



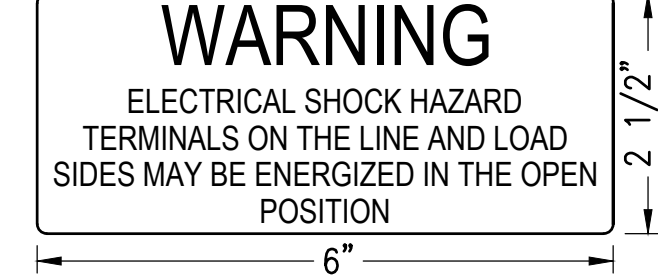
PAC3: AC EQUIPMENT DISCONNECTING MEANS  
LOCATION: ACSW-X OR INV-# (IF INTEGRAL ACSW)  
NEC: 690.13(B)  
BACKGROUND COLOR: RED, WHITE  
TEXT COLOR: WHITE  
HT P/N: 596-00237



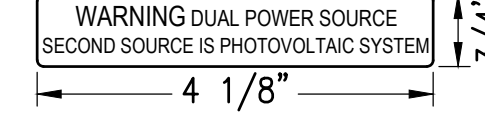
PAC4: PV SYSTEM DISCONNECTING MEANS  
LOCATION: ACSW-X OR INV-# (IF CENTRAL INV.)  
NEC: 690.13(B)  
BACKGROUND COLOR: RED REFLECTIVE, WHITE  
TEXT COLOR: WHITE  
HT P/N: 596-00243



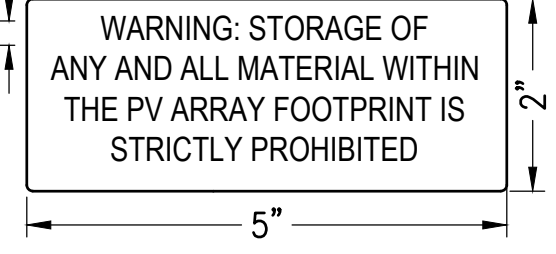
PAC5: AC DISCONNECT MEANS ENERGIZED  
LOCATION: ACSW-X, PNL-X  
NEC: 690.13(B)  
BACKGROUND COLOR: ORANGE AND WHITE  
TEXT COLOR: BLACK  
HT P/N: 596-00878



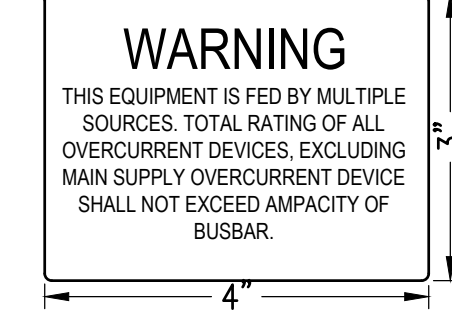
PAC6: ADDITIONAL SOURCE FOR LOAD SIDE INTX  
LOCATION: LOCATION OF POI  
NEC: 690.59, 705.12(B)(3-4)  
BACKGROUND COLOR: ORANGE  
TEXT COLOR: BLACK  
HT P/N: 596-00495



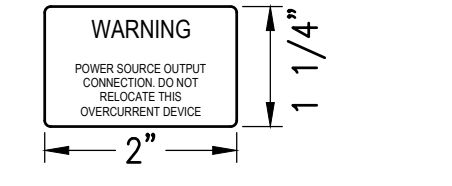
P3: ROOF ARRAY STORAGE PREVENTION  
LOCATION: ALL ENTRY POINTS TO THE ROOF  
BACKGROUND COLOR: ORANGE  
TEXT COLOR: BLACK



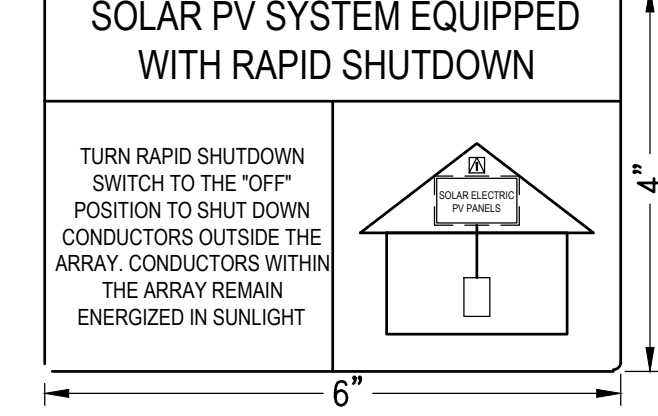
PAC7: SOLAR PANELBOARD/SWITCHBOARD  
LOCATION: PNL-X, SWBD-X  
NEC: 705.12(B)(2)(c)  
BACKGROUND COLOR: ORANGE  
TEXT COLOR: BLACK  
http://www.pvlabels.com/05-108-label/



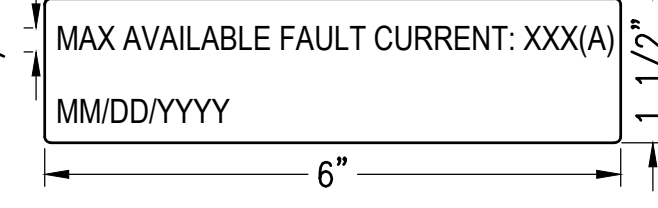
PAC8: LOADBREAK INTX BREAKER  
LOCATION: PV BREAKER AT LOADSIDE INTX  
NEC: 705.12(B)(2)(3)(b)  
BACKGROUND COLOR: ORANGE; TEXT COLOR: BLACK  
HT P/N: 596-00883



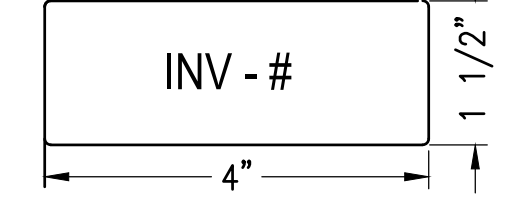
PAC11: RAPID SHUTDOWN  
LOCATION: RAPID SHUTDOWN SWITCH  
NEC: 690.56(C)(1)(b)  
BACKGROUND COLOR: RED REFLECTIVE, WHITE  
TEXT COLOR: WHITE, BLACK  
HT P/N: 596-00886



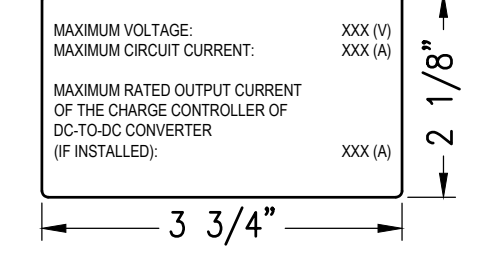
PAC13: FAULT CURRENT  
LOCATION: PNL-X, MAIN SERVICE  
NEC: 110.24(A)  
BACKGROUND COLOR: WHITE  
TEXT COLOR: BLACK, ENGRAVED  
MAX AVAILABLE FAULT CURRENT: XXX(A)  
MM/DD/YYYY



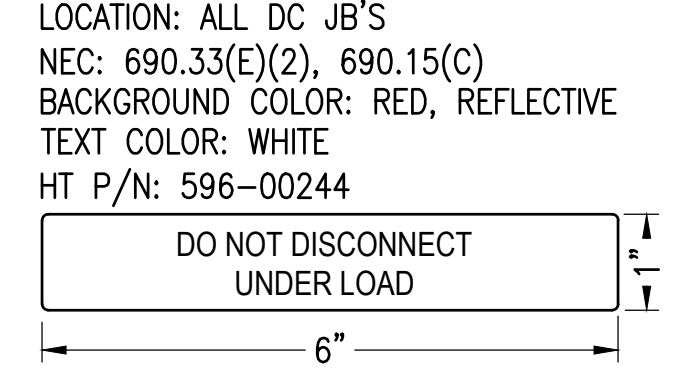
PAC14: SOURCE OF SUPPLY  
LOCATION: AT EACH INV BREAKER  
OF PNL AND SWBD, MAIN SERVICE  
NEC: 408.4(B)  
BACKGROUND COLOR: WHITE  
TEXT COLOR: BLACK, ENGRAVED



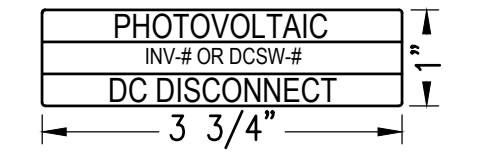
PDC1: DC DISCONNECTS  
LOCATION: CBR-1 THRU CBR-X, DCSW-X,  
RCBR-X, DCCT-X  
NEC: 690.53  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE  
HT P/N: 596-00891



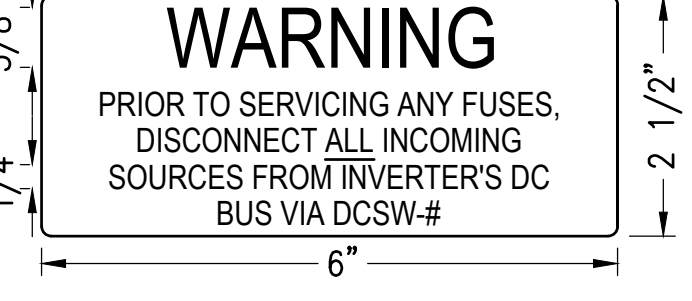
PDC2: DC ENERGIZED CONNECTION AND SYSTEM DISCONNECT  
LOCATION: ALL DC JB'S  
NEC: 690.33(E)(2), 690.15(C)  
BACKGROUND COLOR: RED, REFLECTIVE  
TEXT COLOR: WHITE  
HT P/N: 596-00244



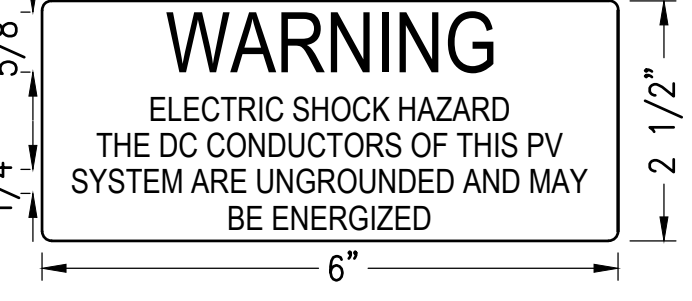
PDC3: DC EQUIPMENT DISCONNECTING MEANS  
LOCATION: DCSW-X OR INV-# (IF INTEGRAL DCSW)  
NEC: 690.13(B)  
BACKGROUND COLOR: RED, WHITE  
TEXT COLOR: WHITE  
HT P/N: 596-00238



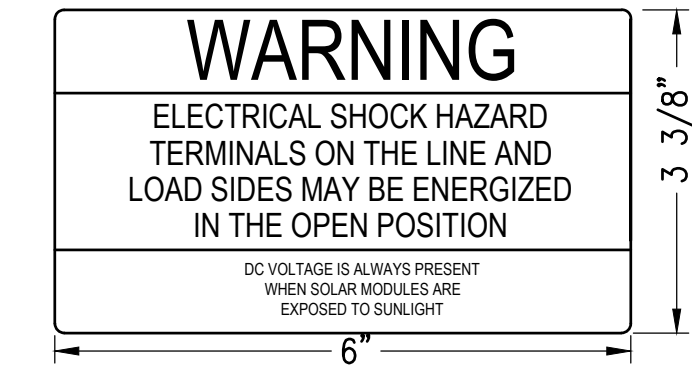
PDC4: FUSE SERVICE WARNING  
LOCATION: INV-X  
BACKGROUND COLOR: ORANGE AND WHITE  
TEXT COLOR: BLACK, ENGRAVED



PDC10: UNGROUNDED SYSTEM WARNING  
LOCATION: ALL JB, CBR-1 THRU CBR-X,  
RCBR-1 THRU RCBR-X, DCSW-X THRU DCSW-X  
NEC: 690.35(F)  
BACKGROUND COLOR: ORANGE AND WHITE  
TEXT COLOR: BLACK

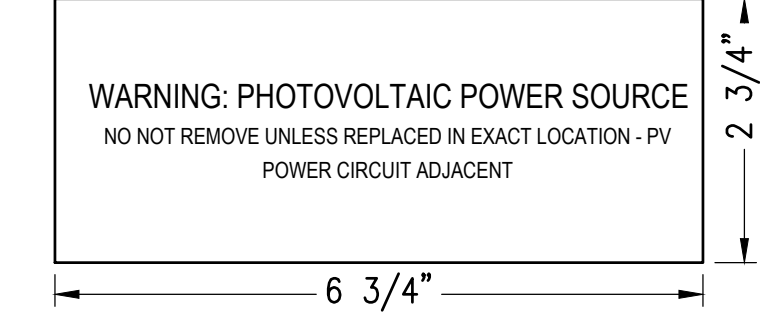


PDC6: DC DISCONNECT MEANS ENERGIZED  
LOCATION: DCSW-X, CBR-X, RCBR-X  
NEC: 690.13(B)  
BACKGROUND COLOR: ORANGE AND WHITE  
TEXT COLOR: BLACK  
HT P/N: 596-00854

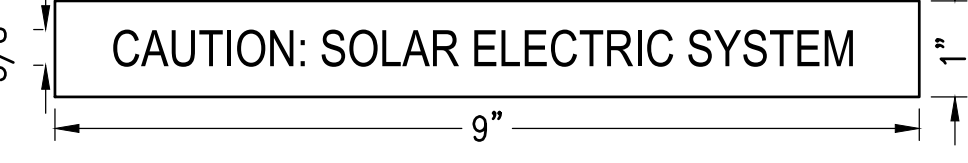


PDC5: GENERAL DC AND/OR CONCEALED DC CONDUIT  
LOCATION: ALL EXPOSED DC RACEWAYS, CABLE TRAYS, PB-X, JB-X,  
EVERY 10', WITHIN 1' OF BENDS, ON CONDUITS BETWEEN ALL  
ENCLOSURES, AND ABOVE/BELOW PENETRATIONS OF ROOF/CEILING,  
WALLS OR BARRIERS, ON THE ROOF SURFACE ABOVE EMBEDDED  
CONDUIT, EVERY 10'

NEC: 690.31(G)(3), 690.31(G)(4), 690.31(G)(1)  
BACKGROUND COLOR: RED REFLECTIVE  
TEXT: WHITE REFLECTIVE  
HT P/N: 506-00257



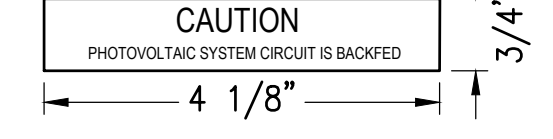
FS2: MAIN SERVICE DISCONNECT  
LOCATION: ACSW-X  
CALFIRE REQUIREMENT  
BACKGROUND COLOR: RED, REFLECTIVE  
TEXT COLOR: WHITE, REFLECTIVE



P4: DANGEROUS VOLTAGE  
LOCATION: ALL ACCESS POINTS TO THE SITE AND EVERY 250'  
AROUND THE PERIMETER (ON FENCES AS NECESSARY)  
NEC: 110.27(C)  
BACKGROUND COLOR: ORANGE; TEXT COLOR: BLACK



P5: BACKFED CIRCUIT  
LOCATION: MAIN SERVICE, PVCB-X  
NEC: 690.13(F), 690.59, 705.12(B)(3-4)  
BACKGROUND COLOR: YELLOW  
TEXT COLOR: BLACK  
HT P/N: 596-00587



ESS1: ENERGY STORAGE SYSTEM DISCONNECTING MEANS  
LOCATION: ESS SW-X  
NEC: 706.7(D)  
BACKGROUND COLOR: RED; TEXT COLOR: WHITE  
HT P/N: 596-00987

