

Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

Civil Construction Plans

Issued for Permit

Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Surveying and Engineering, P.C.

PREPARED FOR:



700 Universe Blvd,
Juno Beach, FL 33408

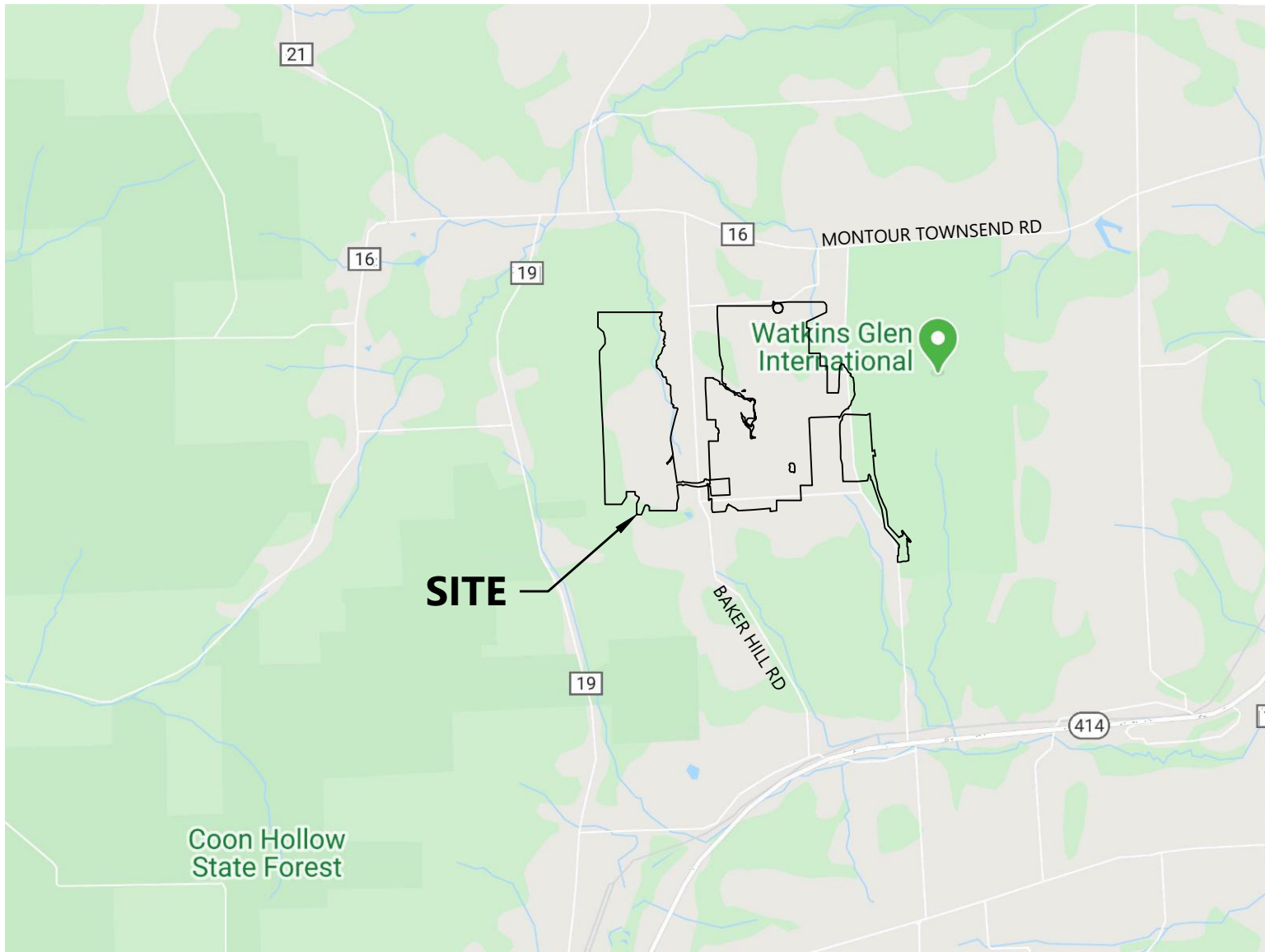
REVISIONS:

#	DATE	COMMENT
A	03/11/20	ISSUED FOR REVIEW
B	04/17/20	ISSUED FOR PERMIT
C	06/05/20	ISSUED FOR REVIEW
D	06/26/20	ISSUED FOR REVIEW
E	09/01/20	ISSUED FOR REVIEW

REGIONAL MAP



VICINITY MAP



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C.301	CIVIL SITE PLAN - 2
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SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
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L1.02	ENLARGED LANDSCAPE PLAN
L1.03	ENLARGED LANDSCAPE PLAN
L1.04	ENLARGED LANDSCAPE PLAN
L1.05	ENLARGED LANDSCAPE PLAN
L1.06	ENLARGED LANDSCAPE PLAN
L2.01	LANDSCAPE NOTES & DETAILS
L2.02	LANDSCAPE NOTES & DETAILS

CONTACT INFORMATION

CONSULTANT	COMPANY	NAME	PHONE NUMBER
PROJECT MANAGER	WESTWOOD	JACK HAYS	972-265-4871
ENGINEER OF RECORD	WESTWOOD	ALEX ALVARADO	214-228-8102
CLIENT	NEXTERA	JOE CARTAYA	561-604-4529
ENVIRONMENTAL CONSULTANT	TRC	SAMANTHA KRANES	315-362-2415

DATA SET INFORMATION

BASE FILE	FILE NAME/NOTES	PROVIDER
GRADING	0025414C-GRADE	WESTWOOD
CIVIL IMPROVEMENTS	0025414C-SITE	WESTWOOD
PV ARRAY	0025417E-EQUIP-TRACKER-.42 GCR	WESTWOOD
ELECTRICAL LAYOUT	0025417E-EQUIP-TRACKER-.42 GCR	WESTWOOD
BOUNDARY SURVEY	0025414V-MAPO	HUNT
TOPOGRAPHY	0025414V-ECON	DUDEK
AERIAL	0025414V-AERIAL	PUBLIC DATA
WETLANDS	0025414V-MAPO	TRC
SUBSTATION	0025417E-EQUIP-TRACKER-.42 GCR	TRC

**Watkins Glen Solar
Energy Center**

Town of Dix, Schuyler County

Cover

PRELIMINARY
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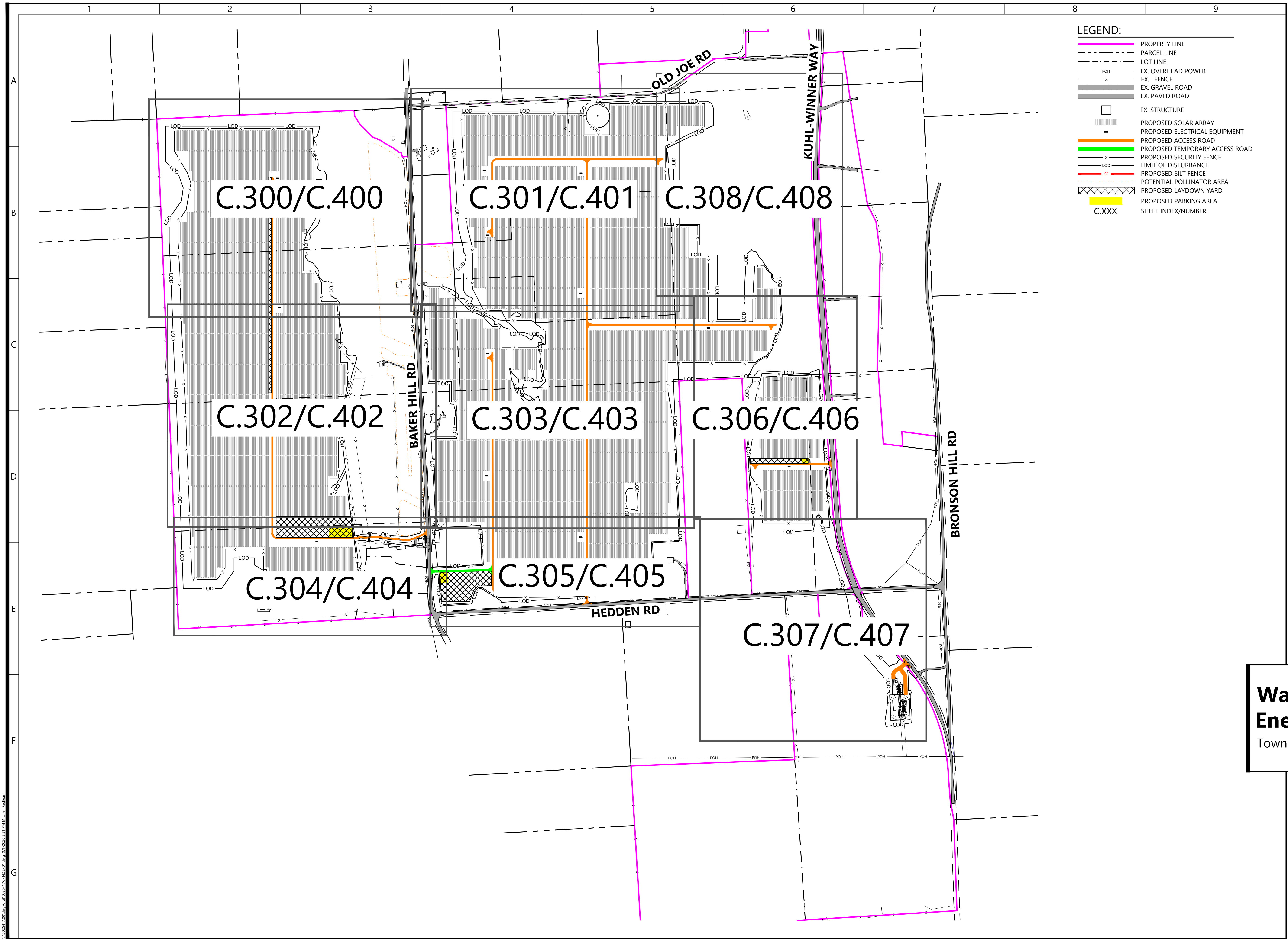
DATE: 09/01/2020

SHEET: T.100

Town of Dix, Schuyler County

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SHEET: T 101



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Town of Dix, Schuyler County

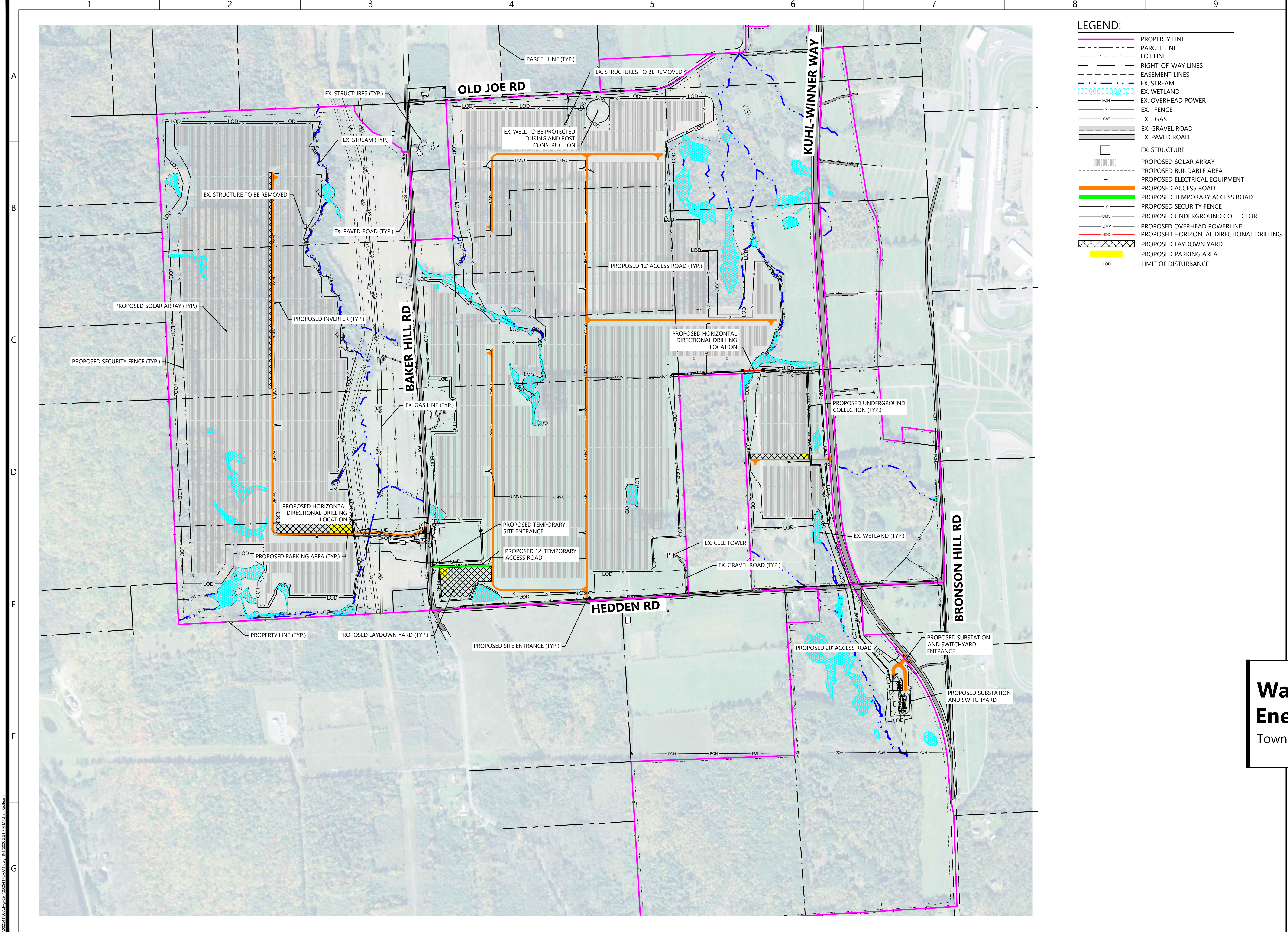
Civil Site & Tree Clearing Plan Sheet Index

PRELIMINARY
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DATE: 09/01/2020

SHEET: C.100

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Town of Dix, Schuyler County

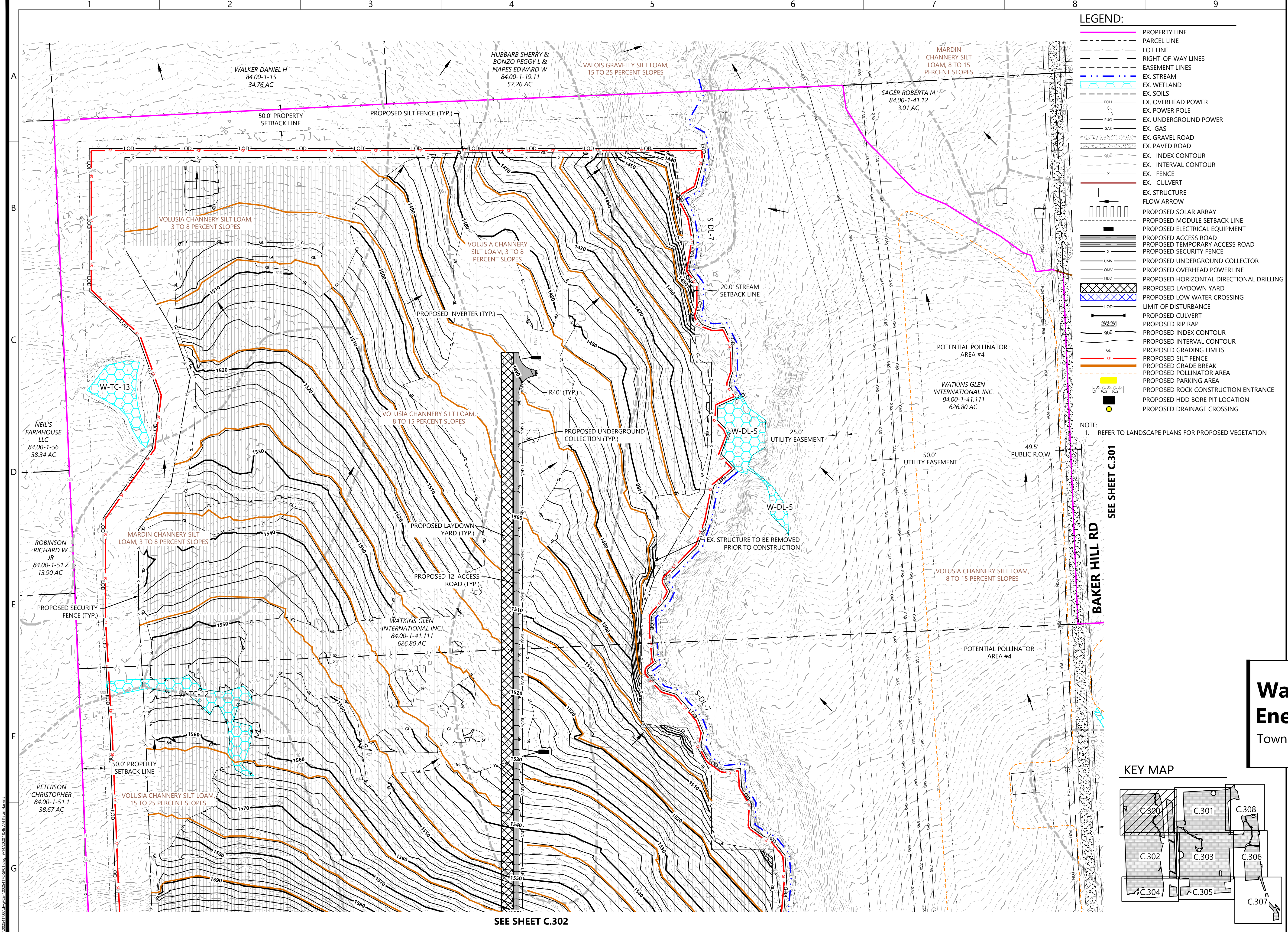
Overall Site Plan

PRELIMINARY
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DATE: 09/01/2020

SHEET: C.200

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LEGEND:

- PROPERTY LINE
- PARCEL LINE
- LOT LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. WETLAND
- EX. SOILS
- EX. OVERHEAD POWER
- EX. POWER POLE
- EX. UNDERGROUND POWER
- EX. GAS
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. STRUCTURE
- FLOW ARROW
- PROPOSED SOLAR ARRAY
- PROPOSED MODULE SETBACK LINE
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
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- PROPOSED SECURITY FENCE
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- PROPOSED OVERHEAD POWERLINE
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED LAYDOWN YARD
- PROPOSED LOW WATER CROSSING
- LIMIT OF DISTURBANCE
- PROPOSED CULVERT
- PROPOSED RIP RAP
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
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- PROPOSED SILT FENCE
- PROPOSED GRADE BREAK
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- PROPOSED PARKING AREA
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- PROPOSED DRAINAGE CROSSING

NOTE:
1. REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION

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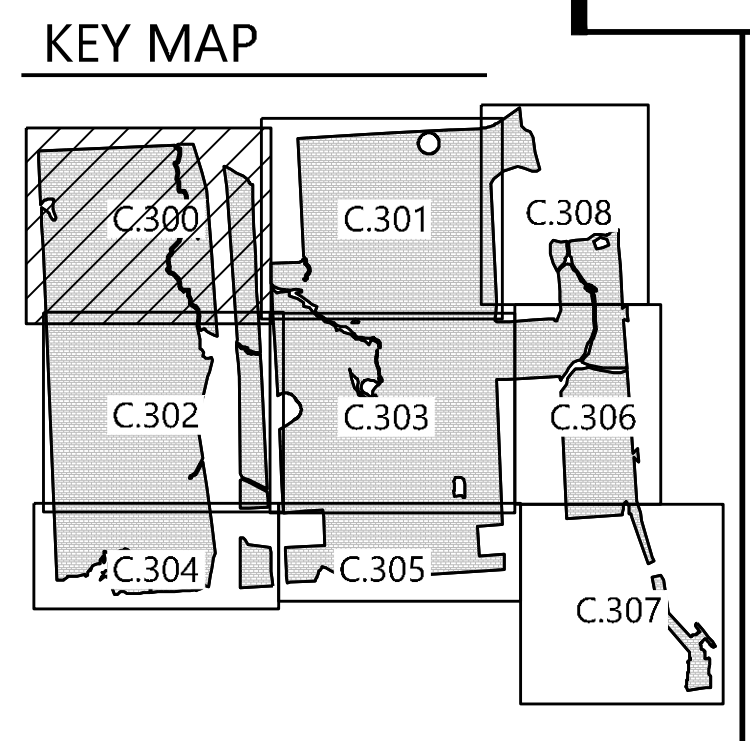
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North Arrow

Scale: 0' 100' 200' 300'

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Town of Dix, Schuyler County

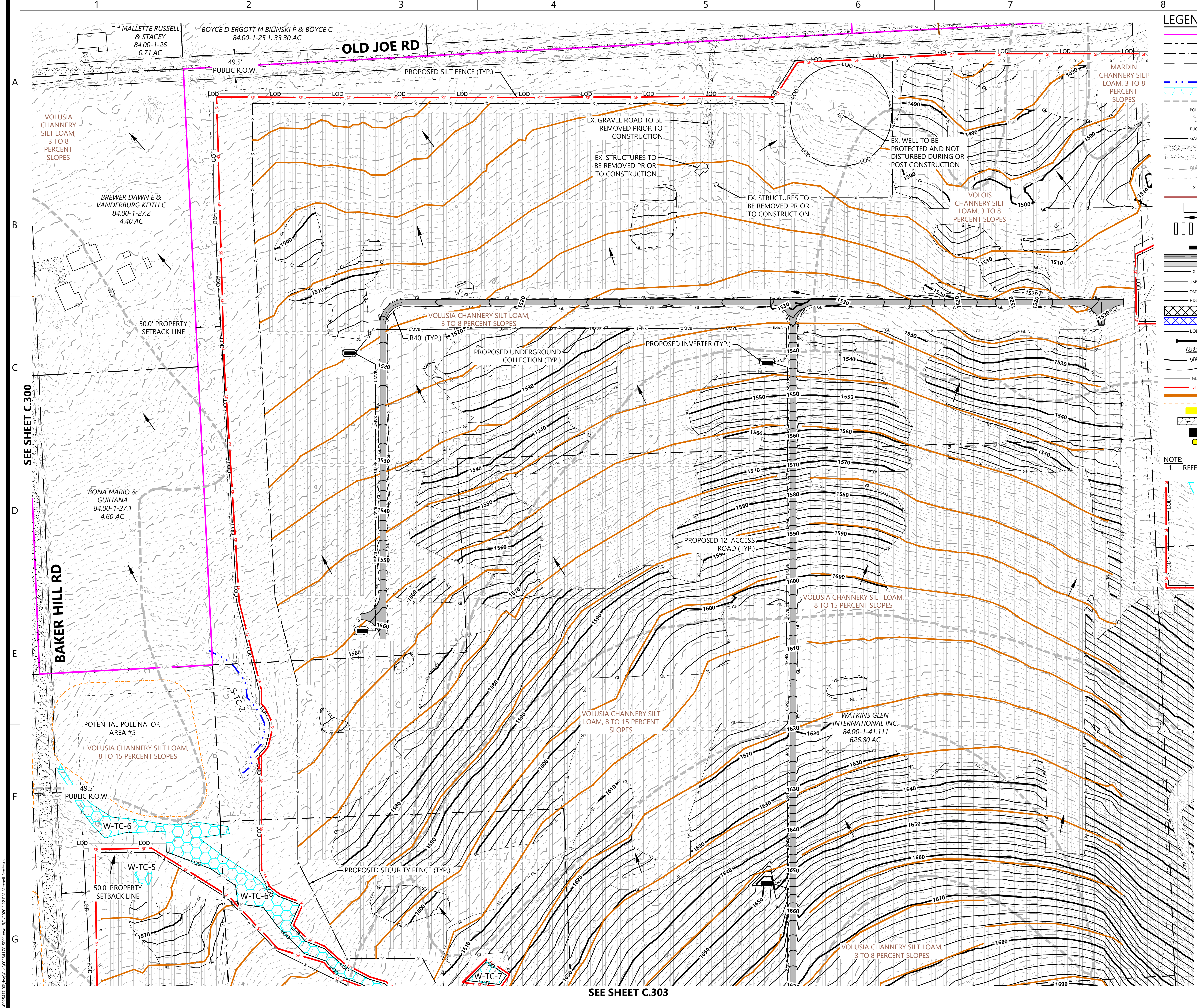


Civil Site Plan - 1

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DATE: 09/01/2020

SHEET: C.300



LEGEND:

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- RIGHT-OF-WAY LINES
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- EX. STREAM
- EX. WETLAND
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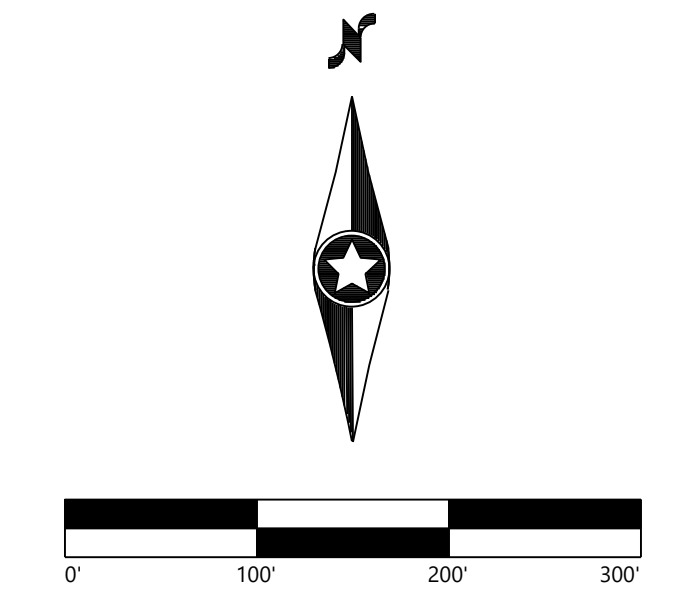
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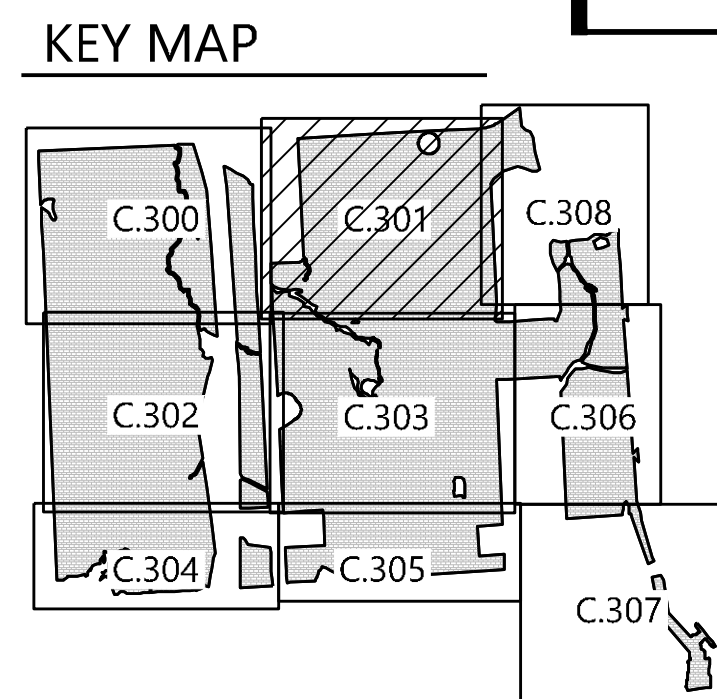
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Town of Dix, Schuyler County

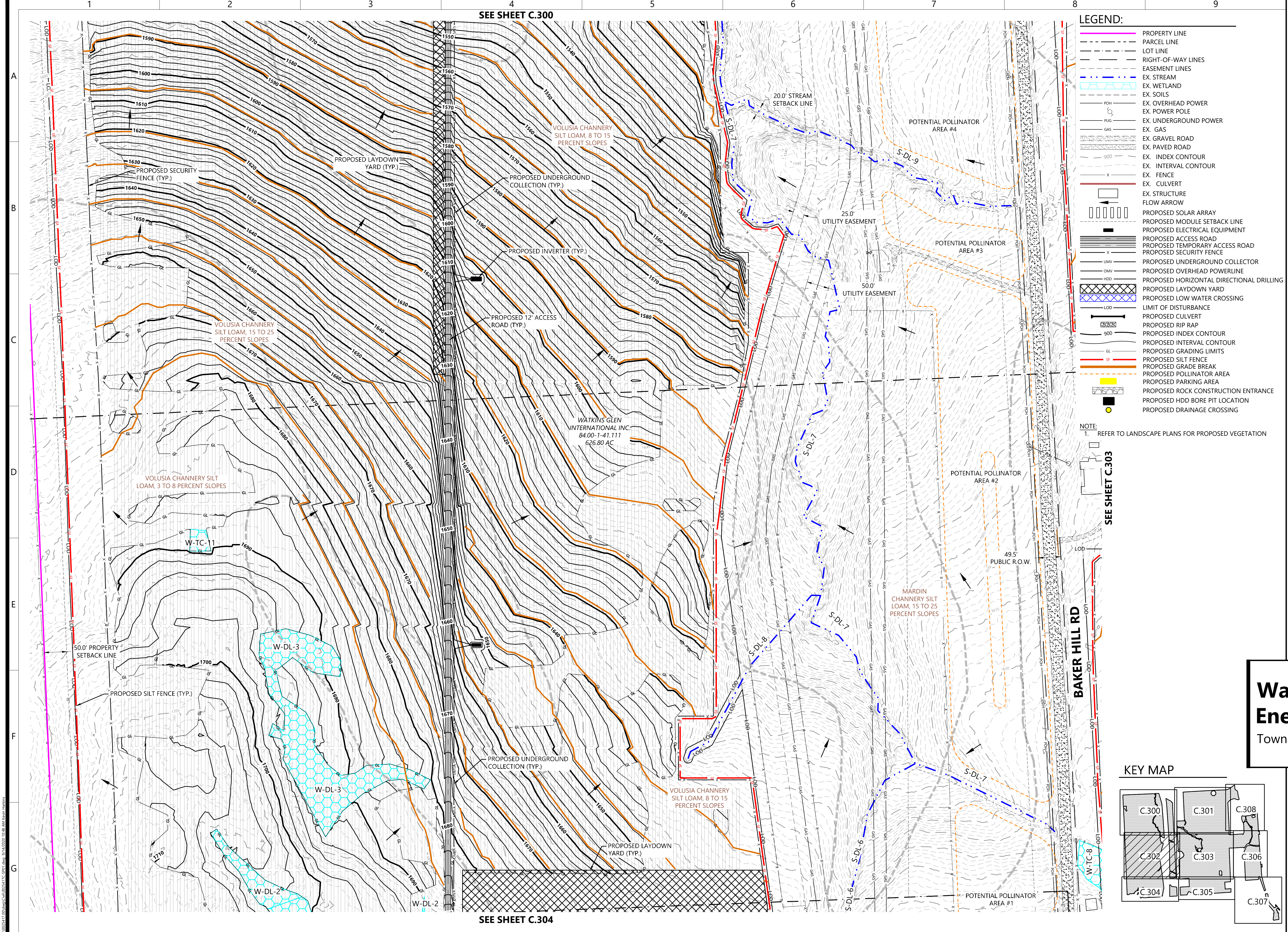


Civil Site Plan - 2

PRELIMINARY
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DATE: 09/01/2020

SHEET: C.301



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Town of Dix, Schuyler County

Civil Site Plan - 3

PRELIMINARY
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DATE: 09/01/2020
SHEET: C.302

LEGEND:

- PROPERTY LINE
- PARCEL LINE
- LOT LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. WETLAND
- EX. SOILS
- EX. OVERHEAD POWER
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- EX. UNDERGROUND POWER
- EX. GAS
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- PROPOSED RIP RAP
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- PROPOSED PARKING AREA
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- PROPOSED DRAINAGE CROSSING

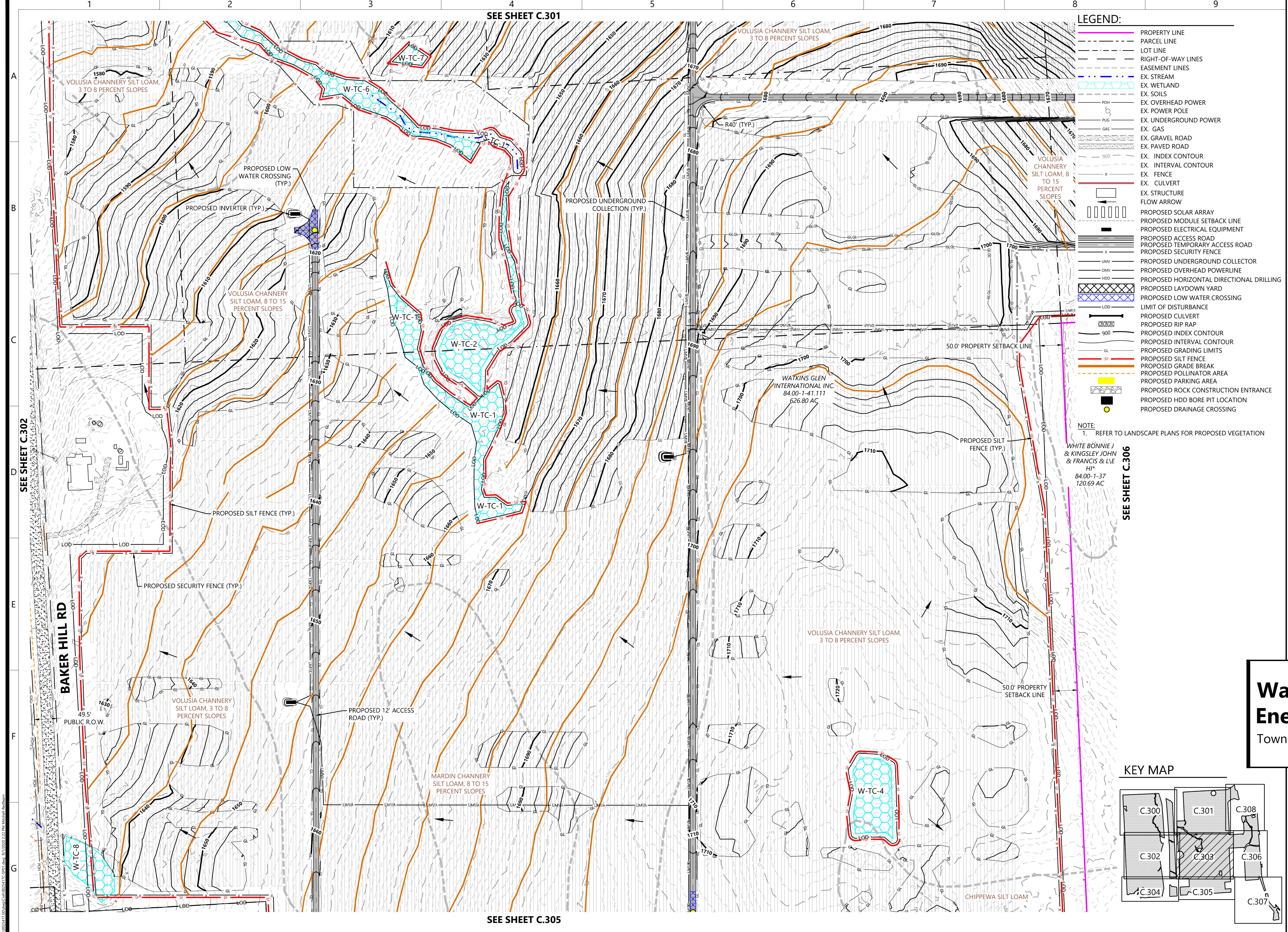
NOTE:
1 REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION

KEY MAP

SEE SHEET C.300

SEE SHEET C.304

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LEGEND:

- PROPERTY LINE
- PARCEL LINE
- LOT LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. WETLAND
- EX. SOILS
- EX. OVERHEAD POWER
- EX. POWER POLE
- EX. UNDERGROUND POWER
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- PROPOSED DRAINAGE CROSSING

NOTE:
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WHITE BONNIE J & KINGSLEY JOHN & FRANCIS & L/E H/P
84.00-1-37
120.69 AC

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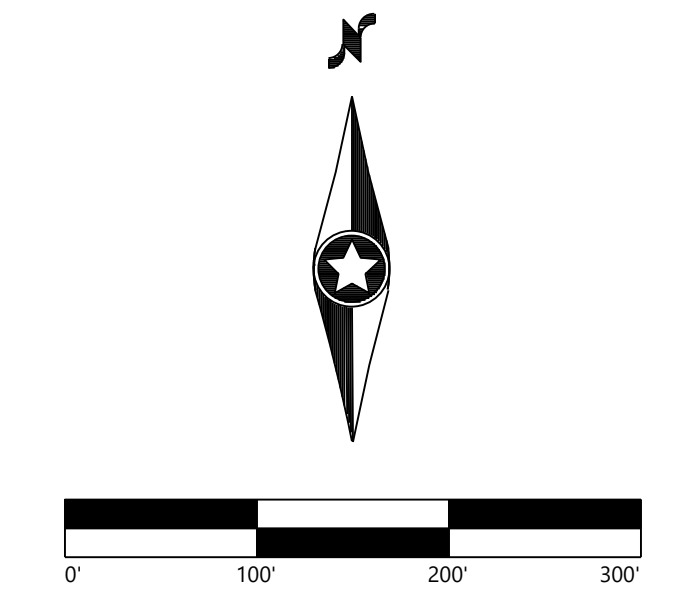
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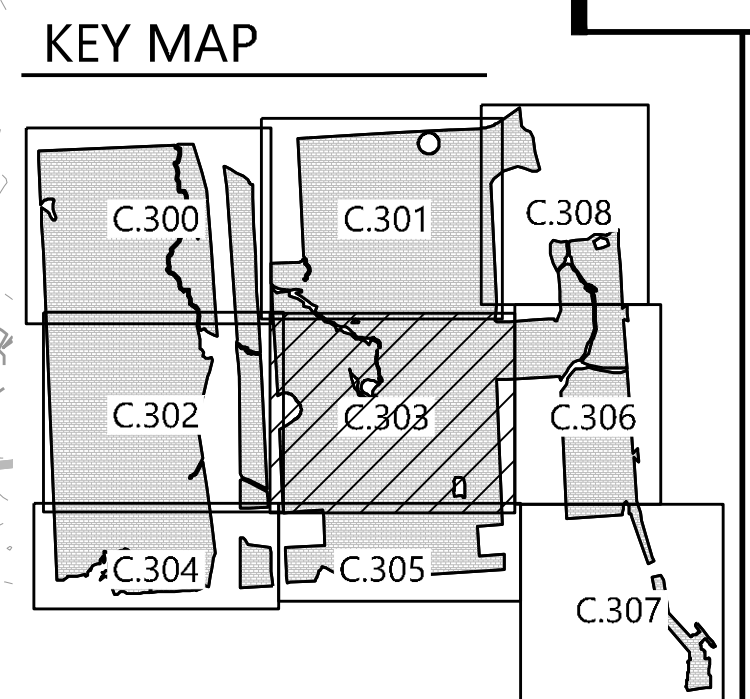
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Town of Dix, Schuyler County

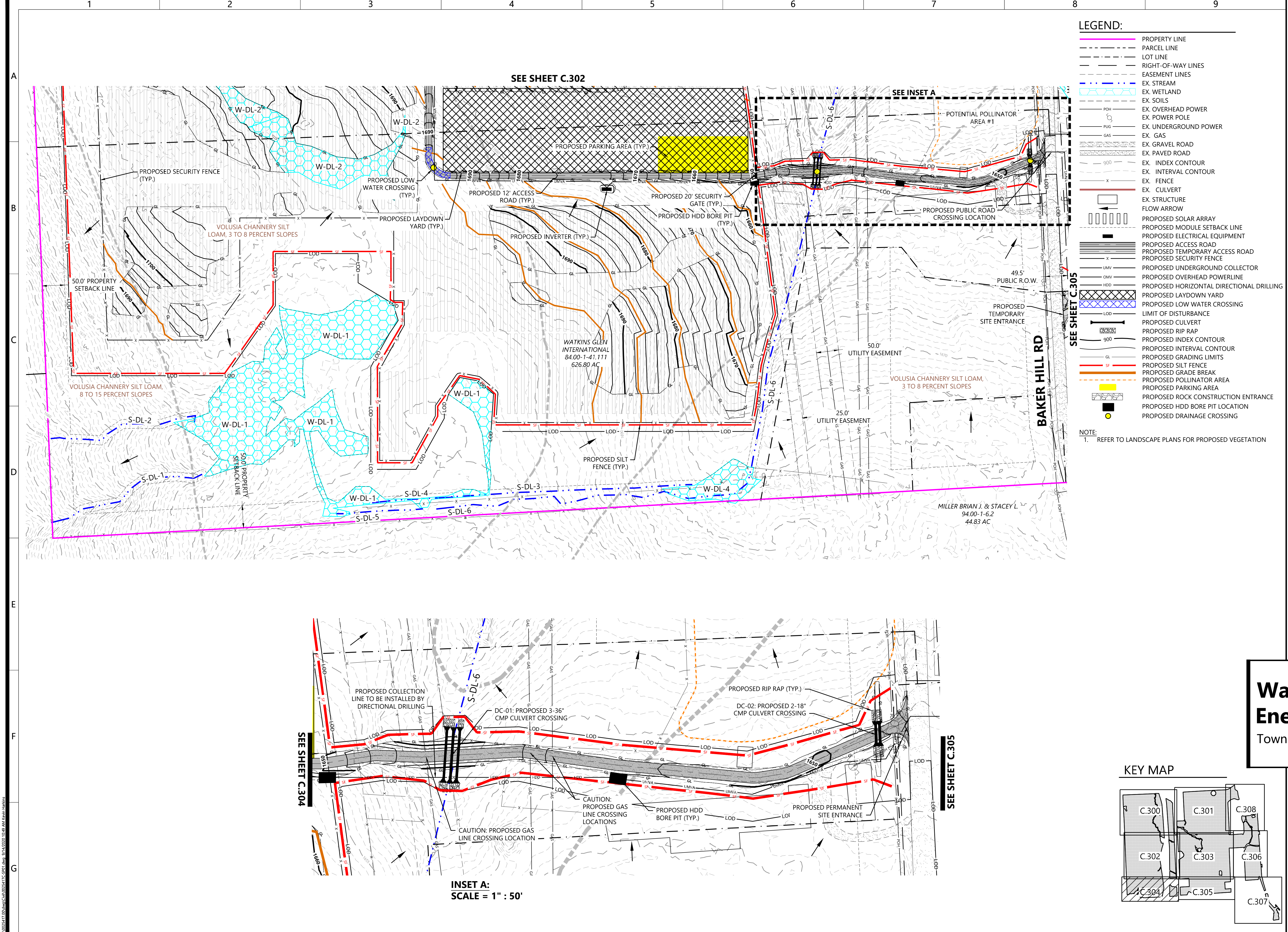


Civil Site Plan - 4

PRELIMINARY
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DATE: 09/01/2020

SHEET: C.303



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Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

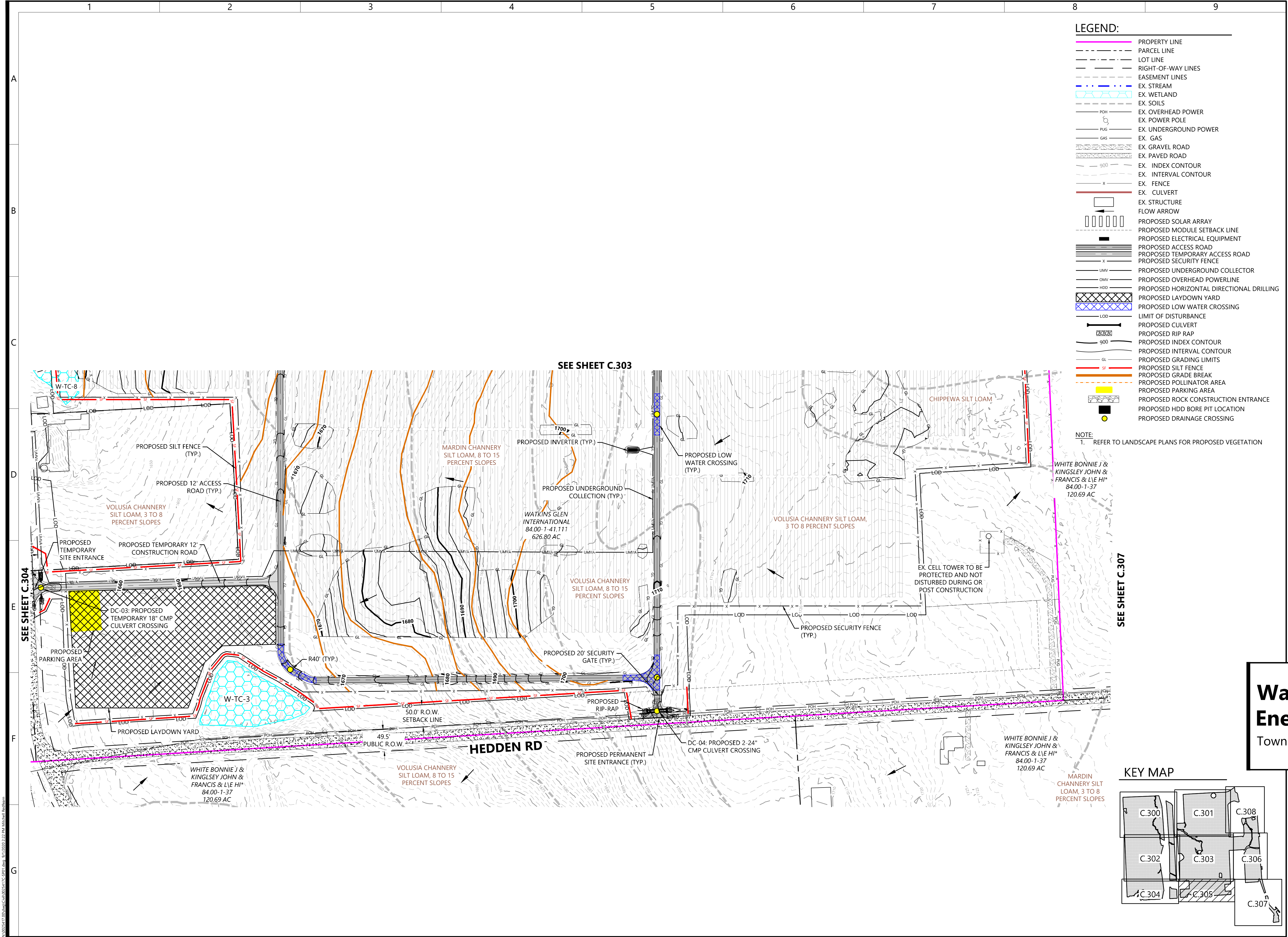
Civil Site Plan - 5

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 09/01/2020
SHEET: C.304

KEY MAP

9:02:54:17 2020.dwg C:\01\025417 C:\01\025417 9/1/2020 10:49 AM Kevin Hefner



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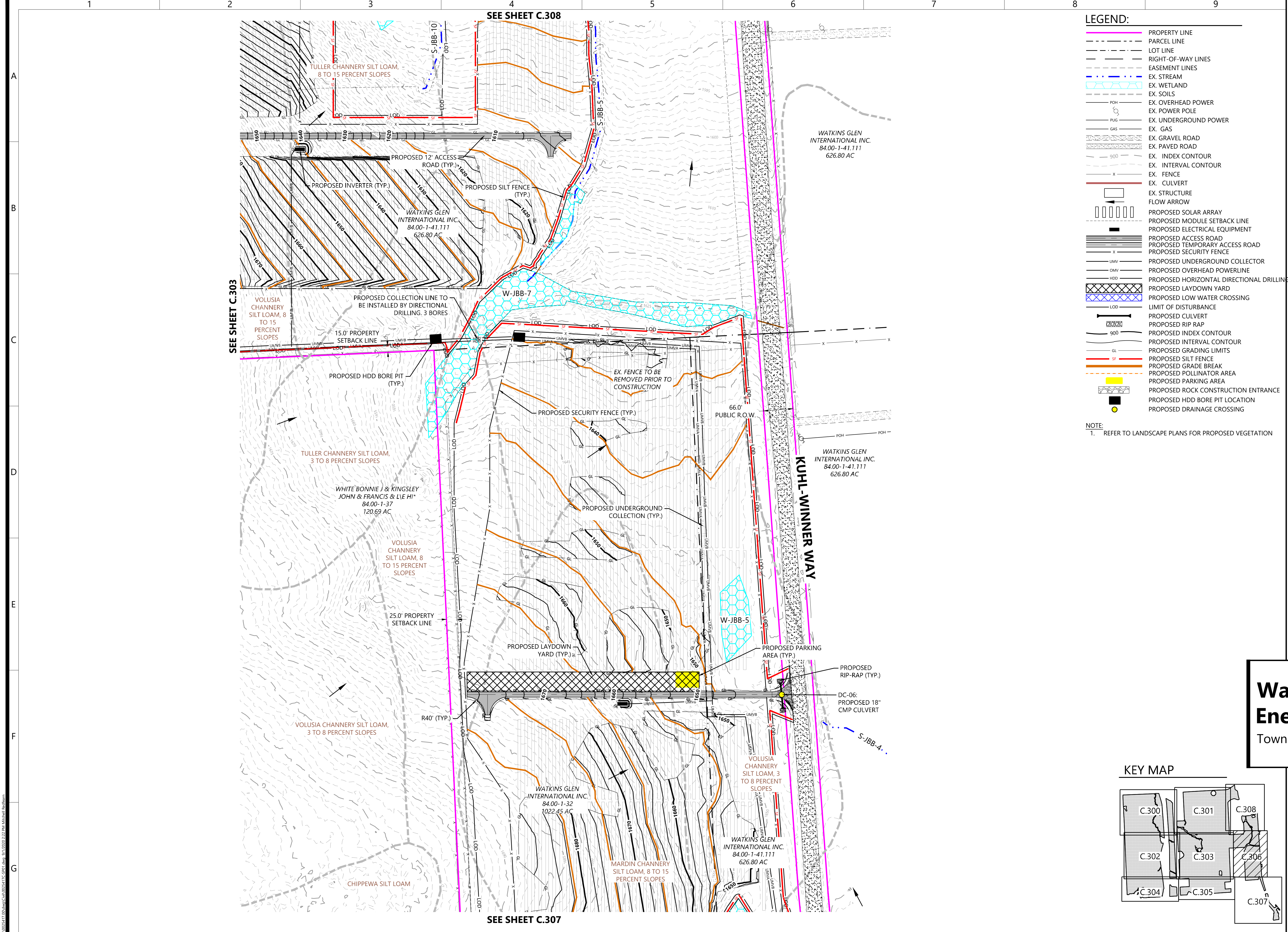
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Civil Site Plan - 6

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DATE: 09/01/2020

SHEET: C.305



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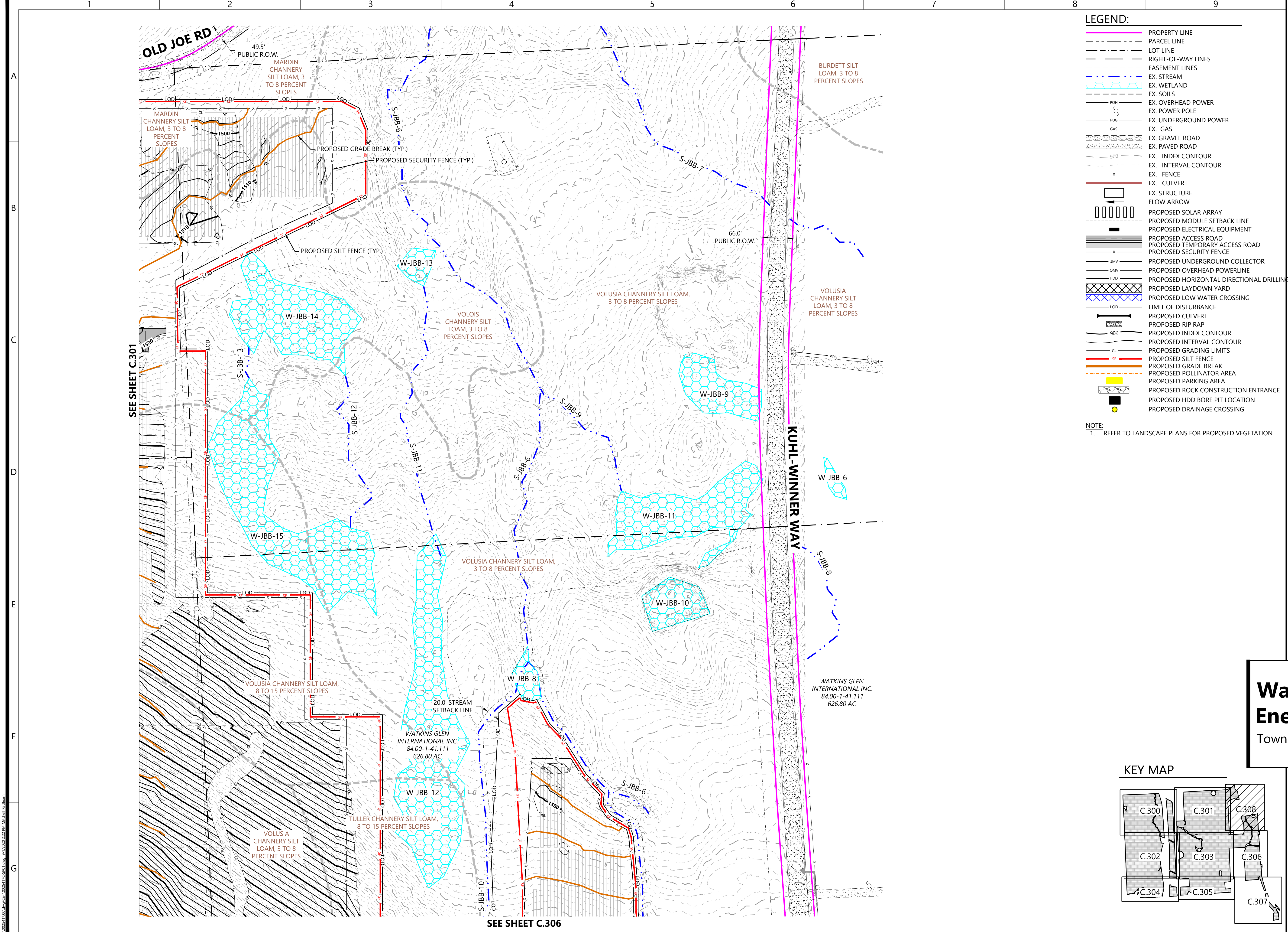
Civil Site Plan - 7

PRELIMINARY
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DATE: 09/01/2020

SHEET: C.306

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Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

Civil Site Plan - 9

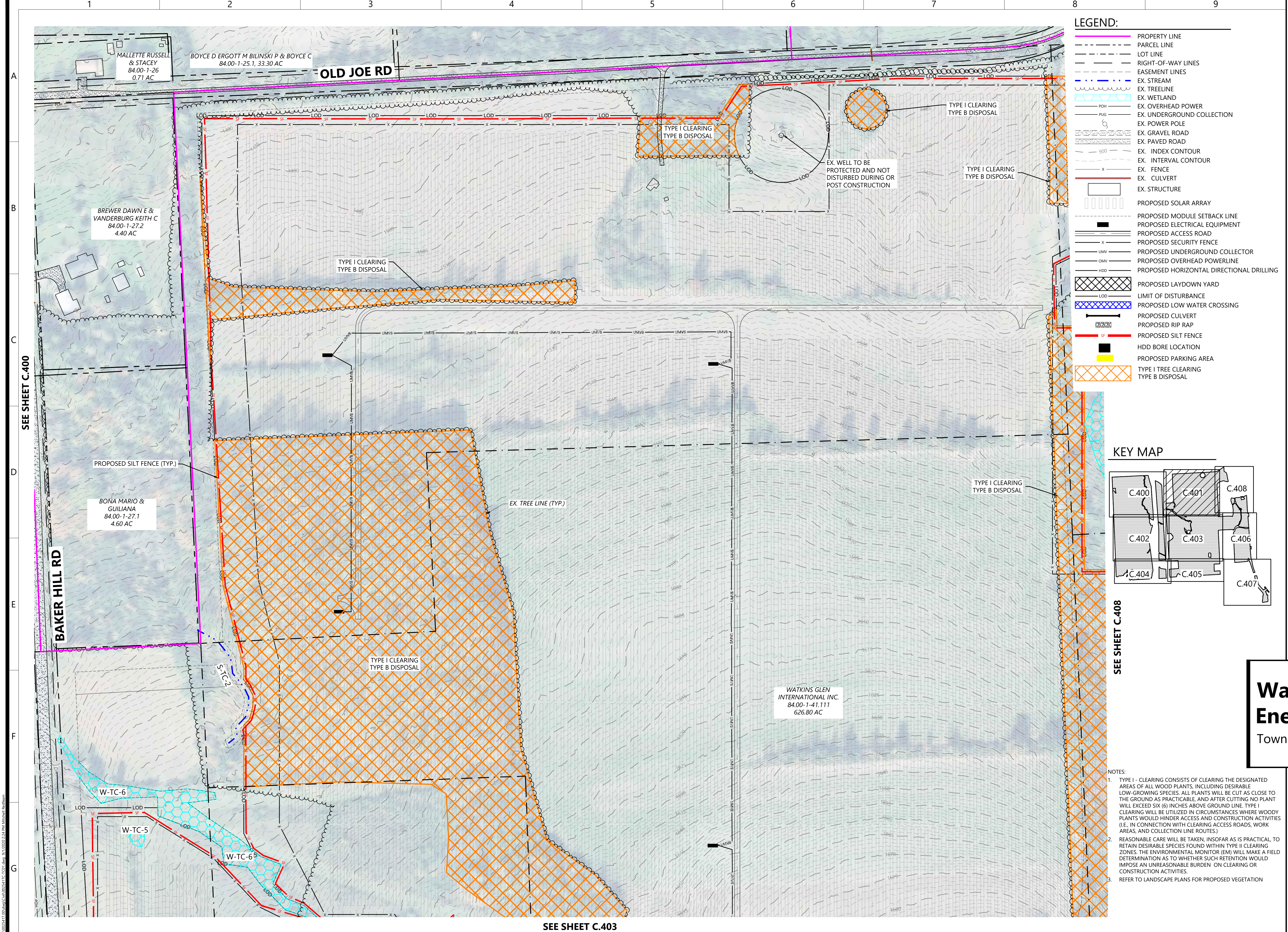
PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 09/01/2020

SHEET: C.308

KEY MAP

9:02:54:17 000wp/civil/0205417-C.308.dwg, 09/01/2020 2:22 PM Michael Reardon



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0' 100' 200' 300'

Watkins Glen Solar Energy Center

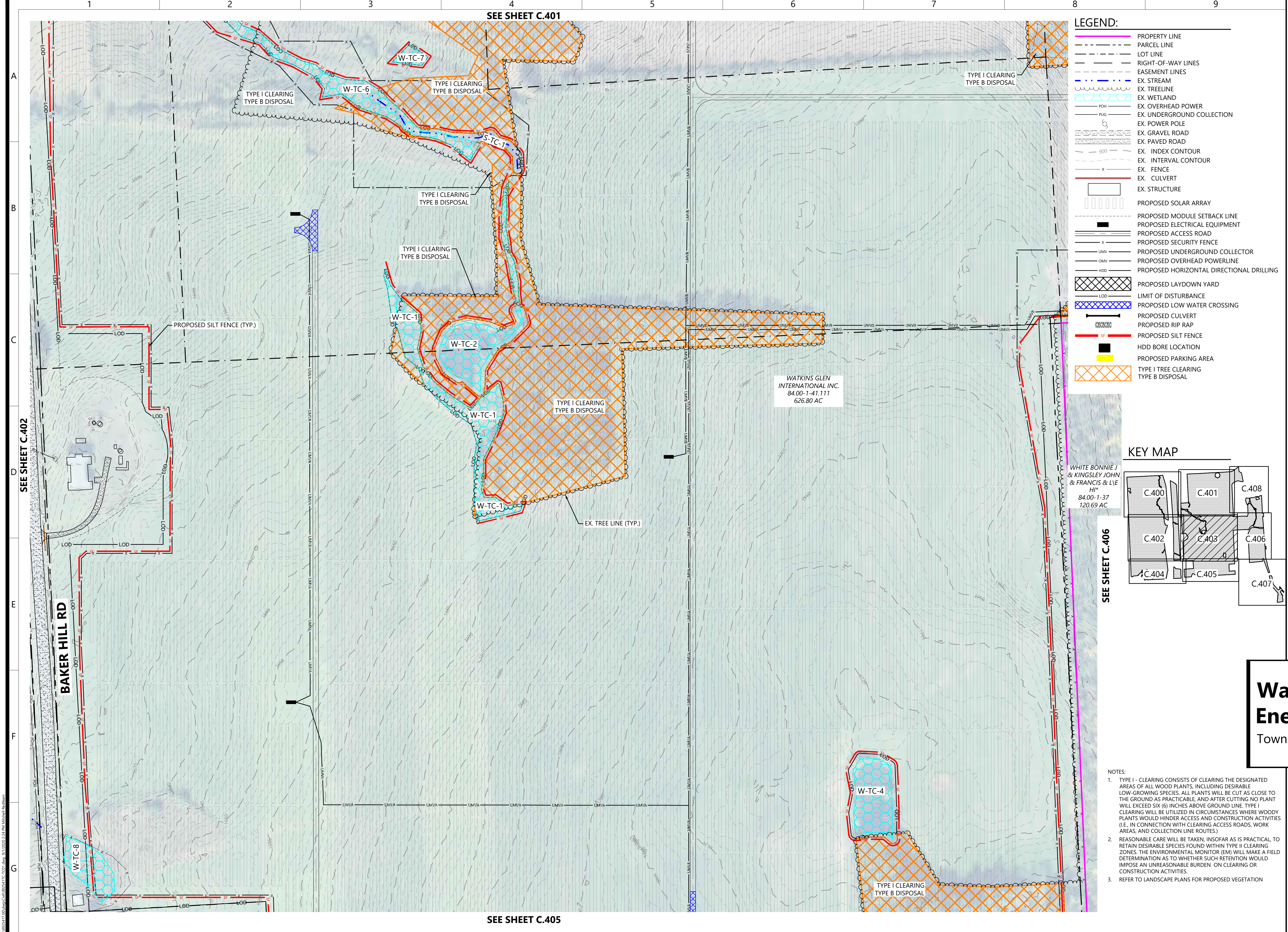
Town of Dix, Schuyler County

Tree Clearing Plan - 2

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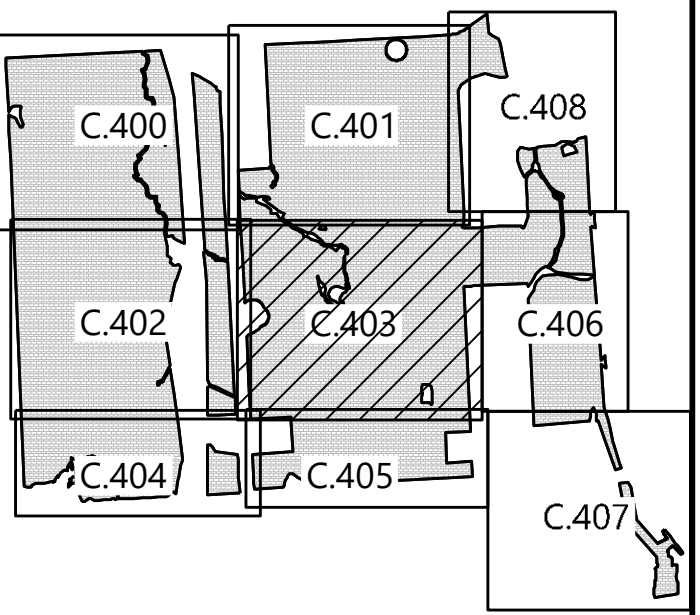
SHEET: C.401



LEGEND:

- PROPERTY LINE
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- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED LAYDOWN YARD
- LIMIT OF DISTURBANCE
- PROPOSED LOW WATER CROSSING
- PROPOSED CULVERT
- PROPOSED RIP RAP
- PROPOSED SILT FENCE
- HDD BORE LOCATION
- PROPOSED PARKING AREA
- TYPE I TREE CLEARING
- TYPE B DISPOSAL

KEY MAP



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Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

Tree Clearing Plan - 4

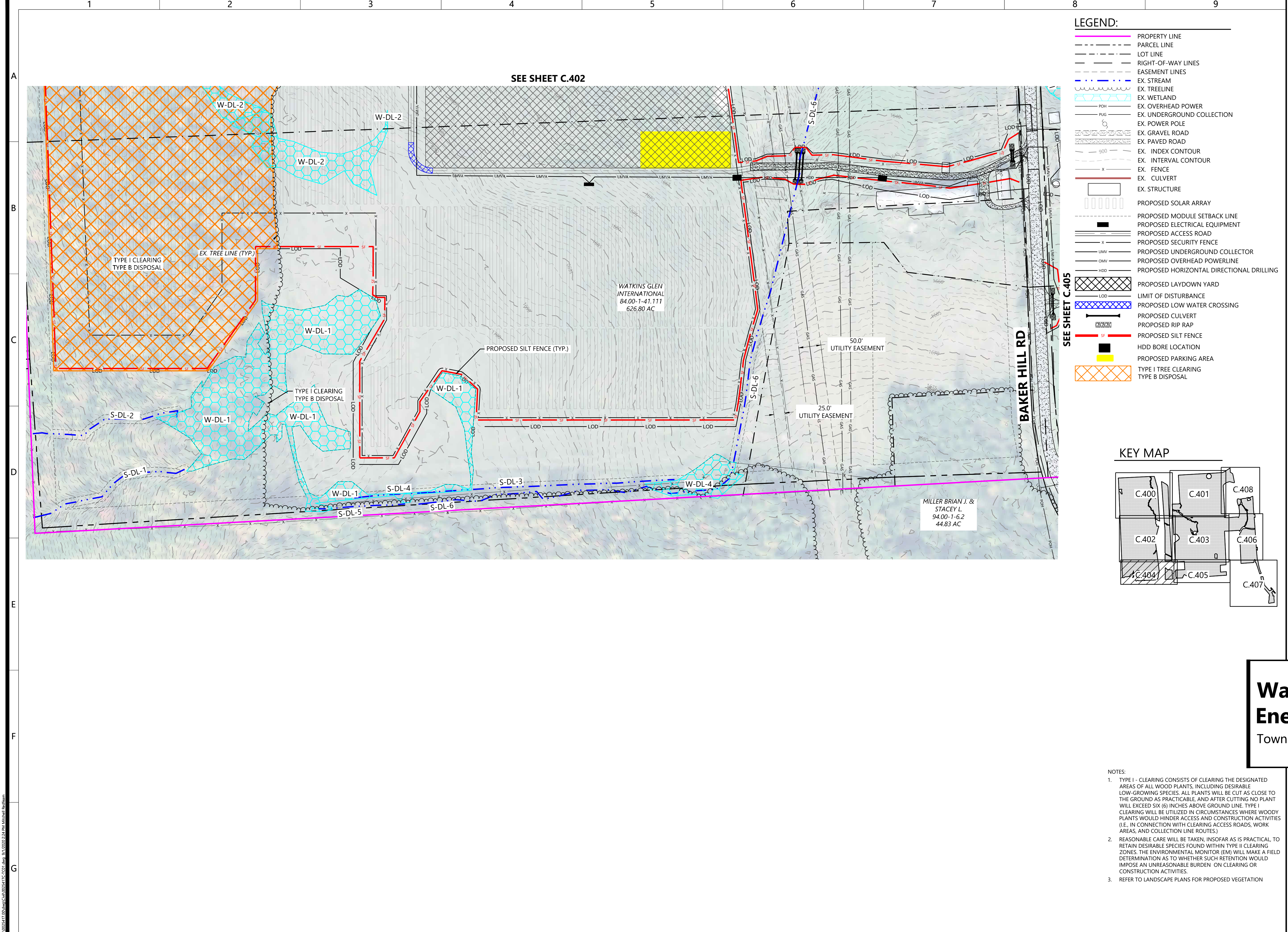
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- NOTES:
- TYPE I - CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ALL WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E. IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES).
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 - REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION

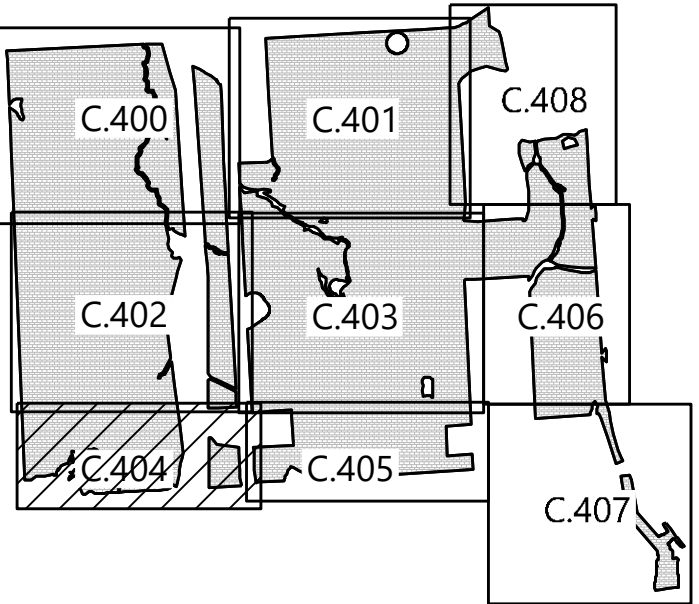
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LEGEND:

- PROPERTY LINE
- PARCEL LINE
- LOT LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. TREETLINE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. UNDERGROUND COLLECTION
- EX. POWER POLE
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. STRUCTURE
- PROPOSED SOLAR ARRAY
- PROPOSED MODULE SETBACK LINE
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
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KEY MAP



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Town of Dix, Schuyler County

Tree Clearing Plan - 5

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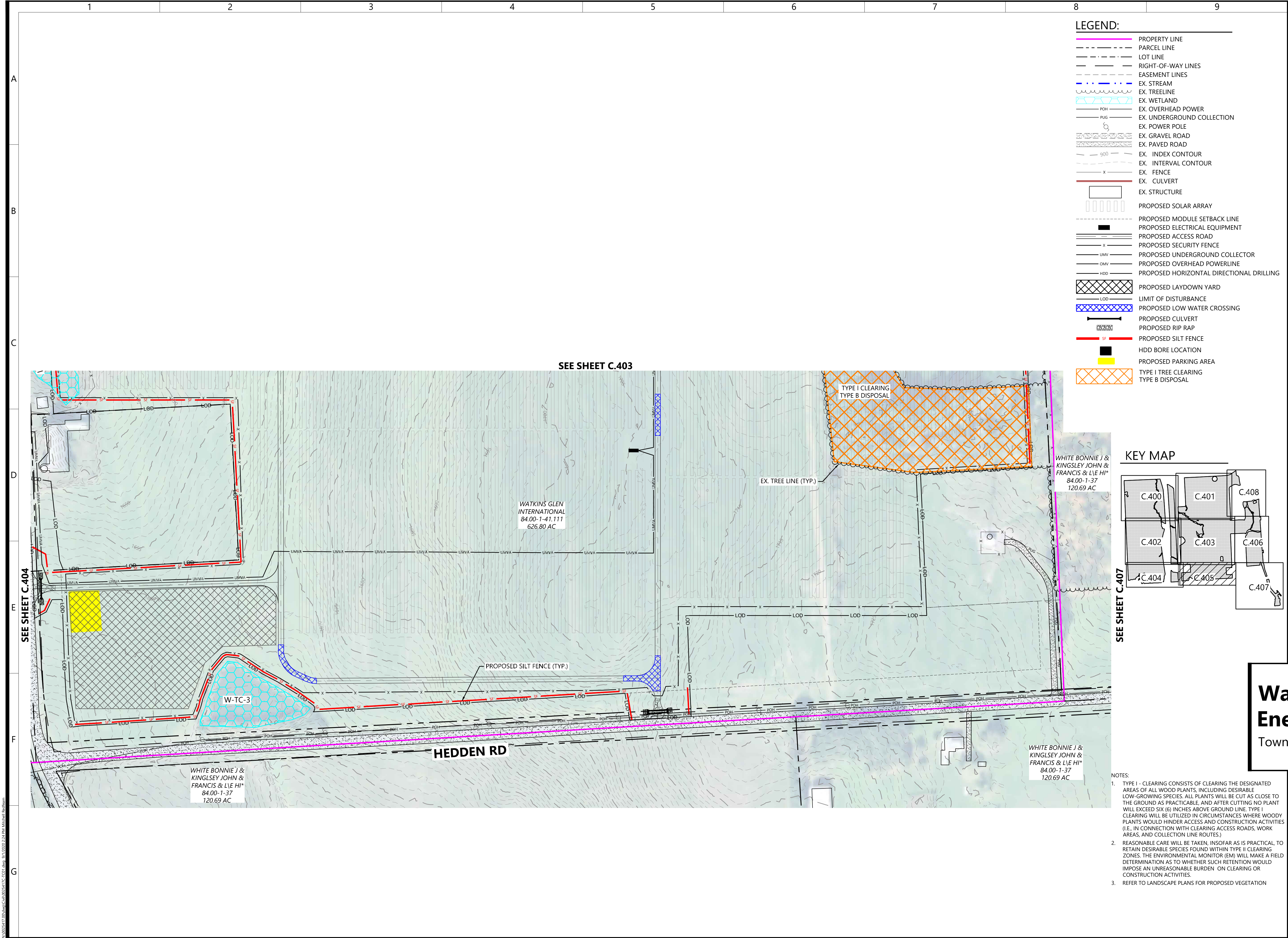
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NOTES:

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- REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION

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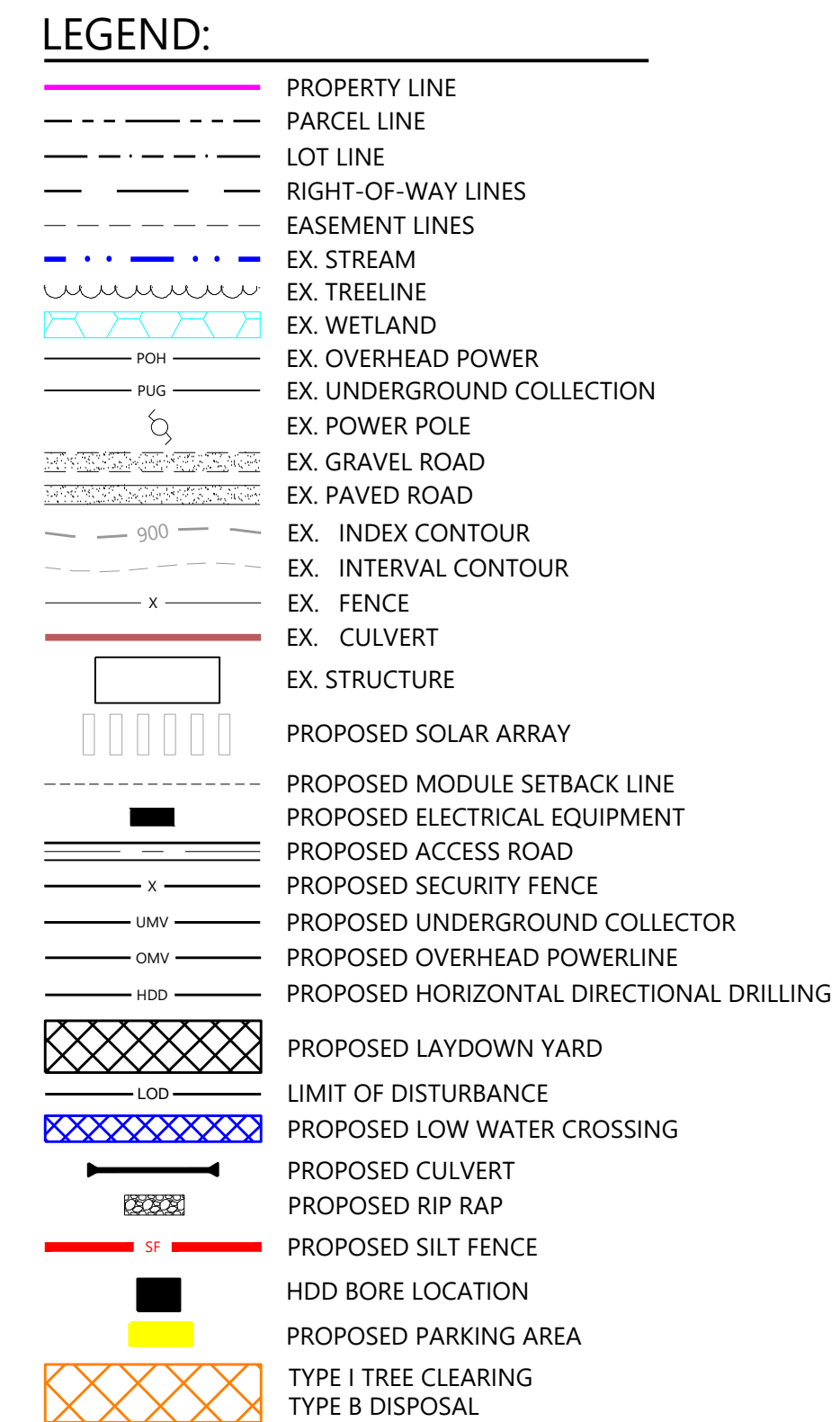
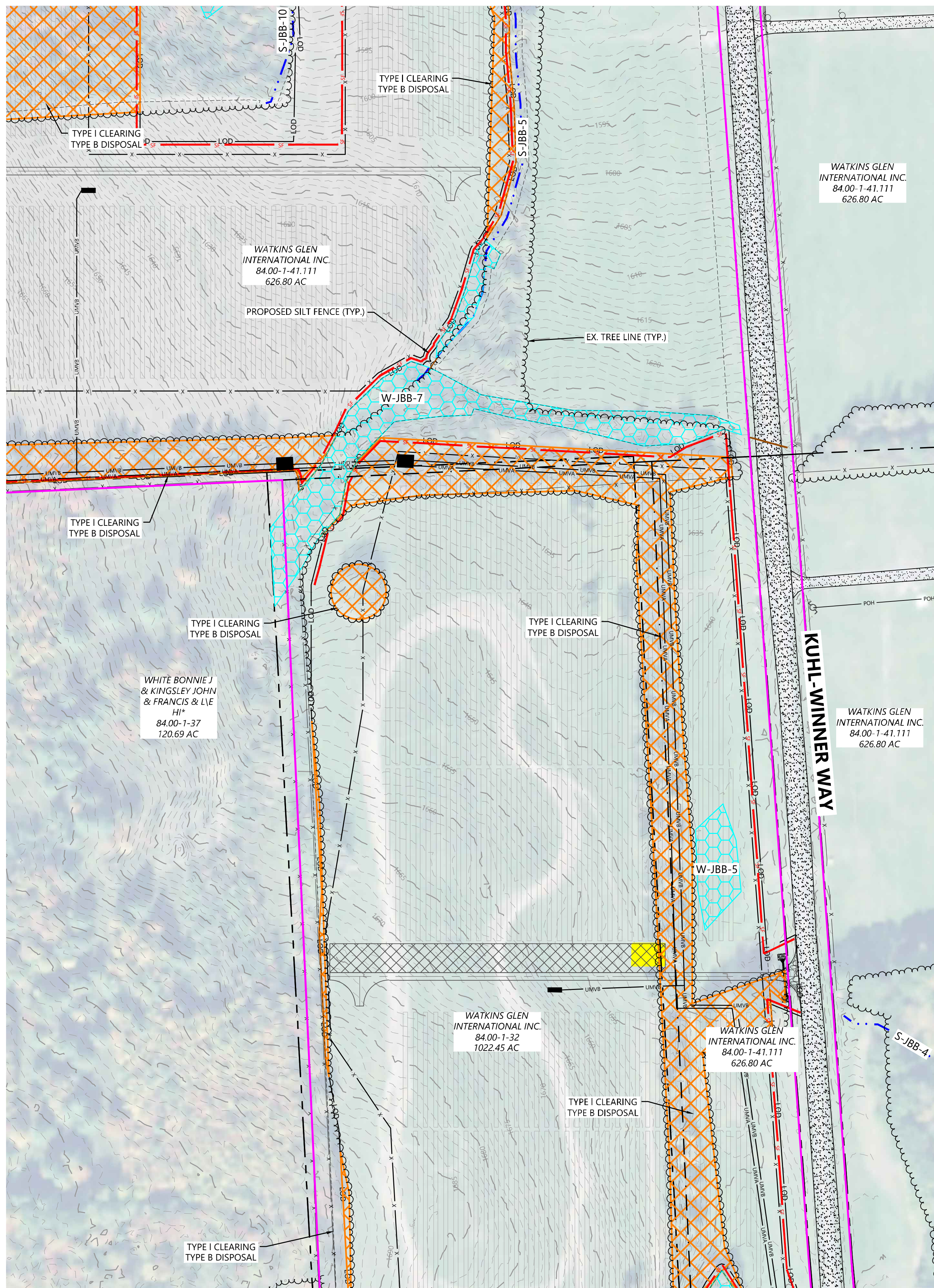
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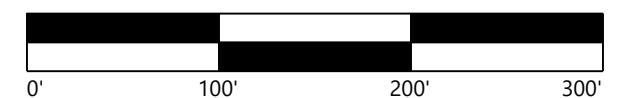
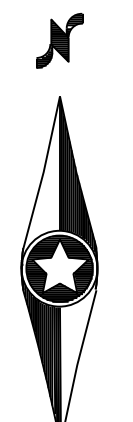
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Town of Dix, Schuyler County

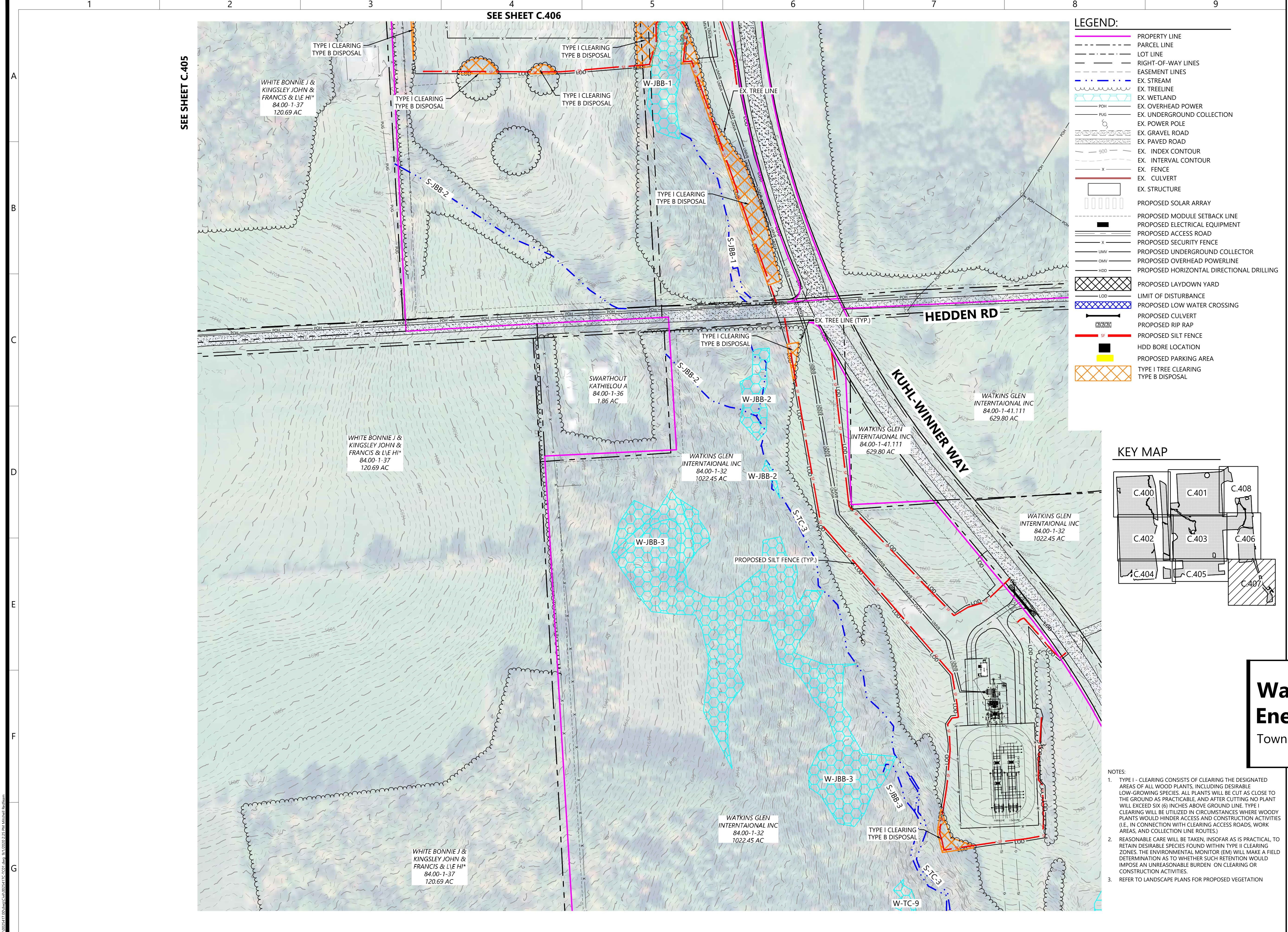
Tree Clearing Plan - 7

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DATE: 09/01/2020

SHEET: C.406

- NOTES:**
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 2. REASONABLE CARE WILL BE TAKEN, INsofar AS IS PRACTICAL, TO REMOVE DESIRABLE SPECIES FOLLOWING TYPE I CLEARING ZONES. THE ENVIRONMENTAL MONITOR (EM) WILL MAKE A FIELD DETERMINATION AS TO WHETHER SUCH RETENTION WOULD IMPOSE AN UNREASONABLE BURDEN ON CLEARING OR CONSTRUCTION ACTIVITIES.
 3. REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION



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KEY MAP

Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

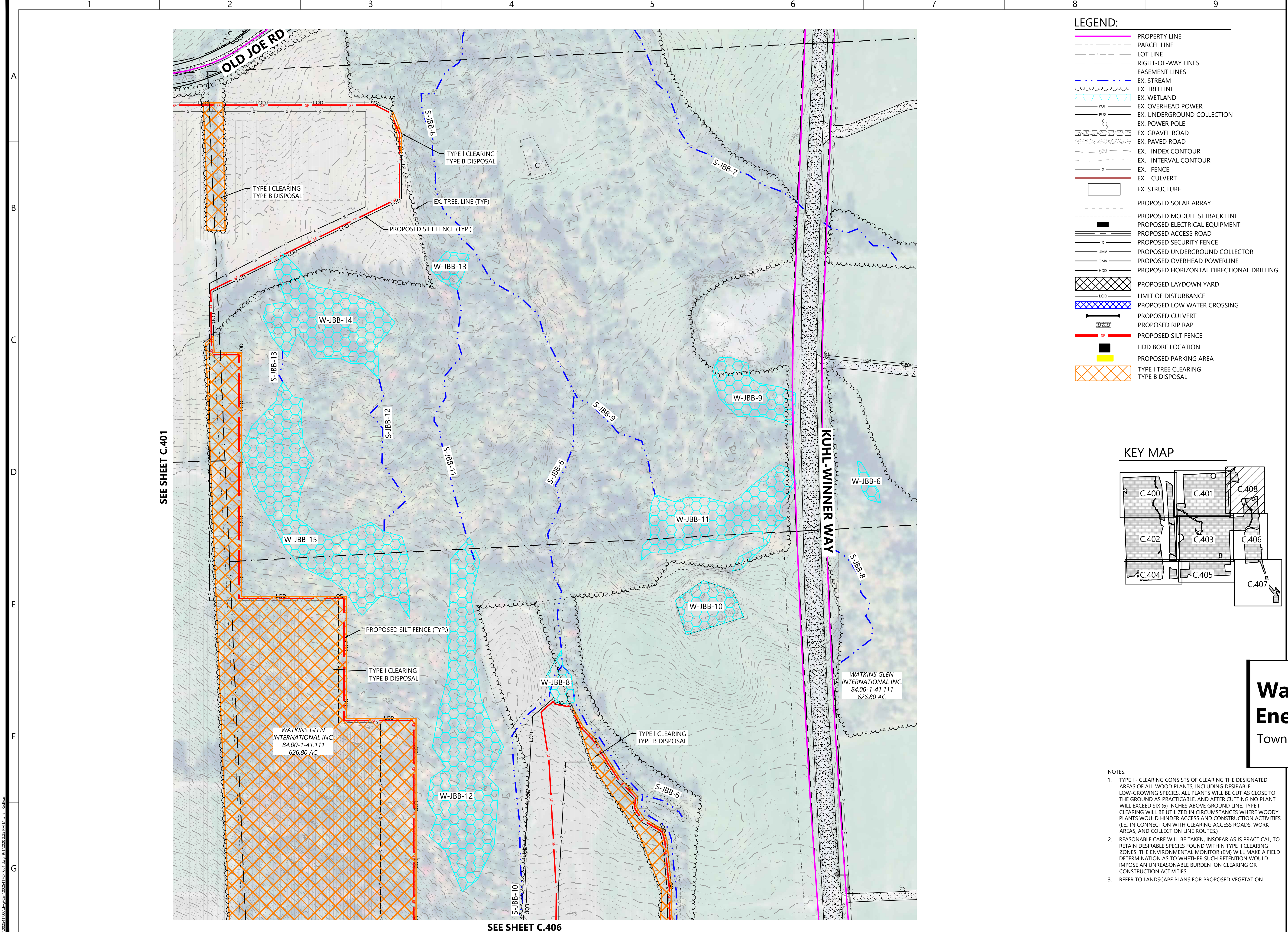
Tree Clearing Plan - 8

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Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

Tree Clearing Plan - 9

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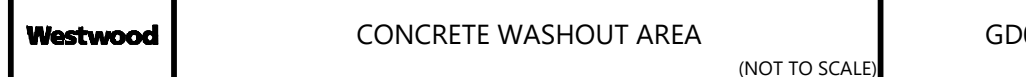
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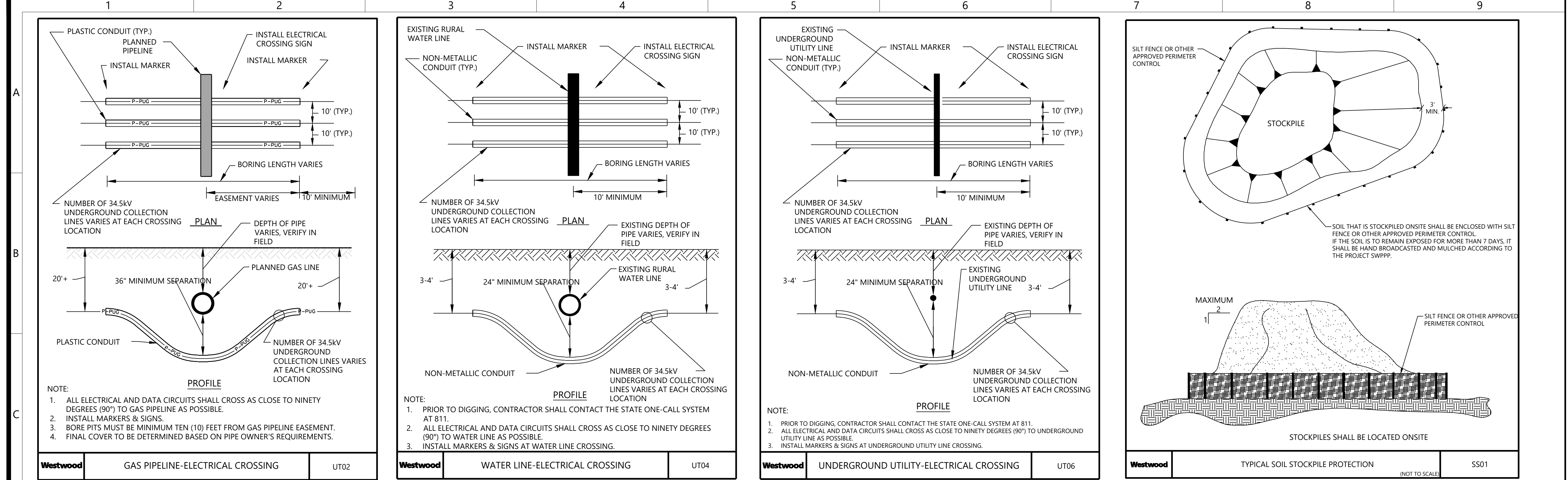
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Westwood TEMPORARY EROSION BLANKETS
TURF REINFORCEMENT MATS FOR SLOPE



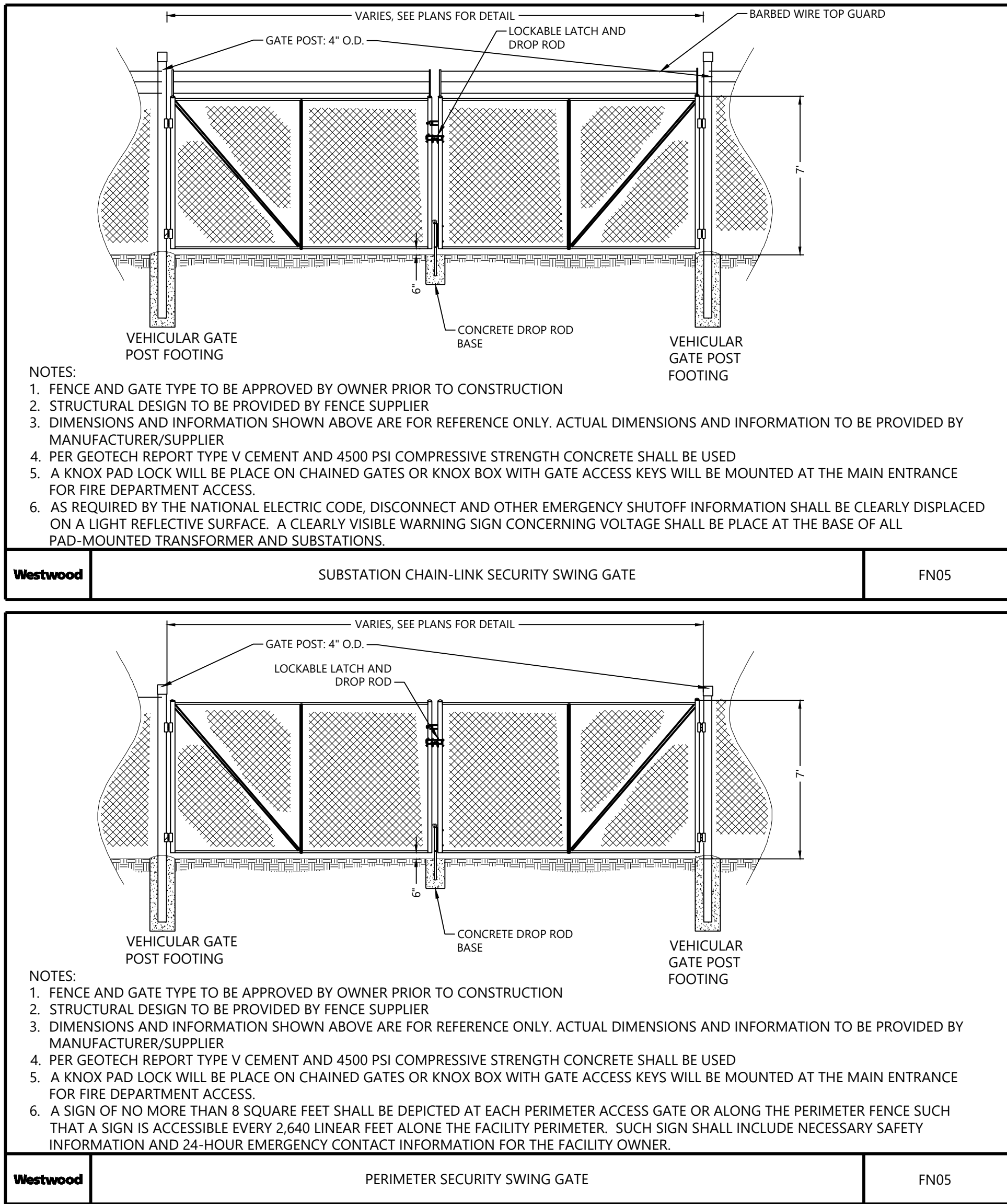
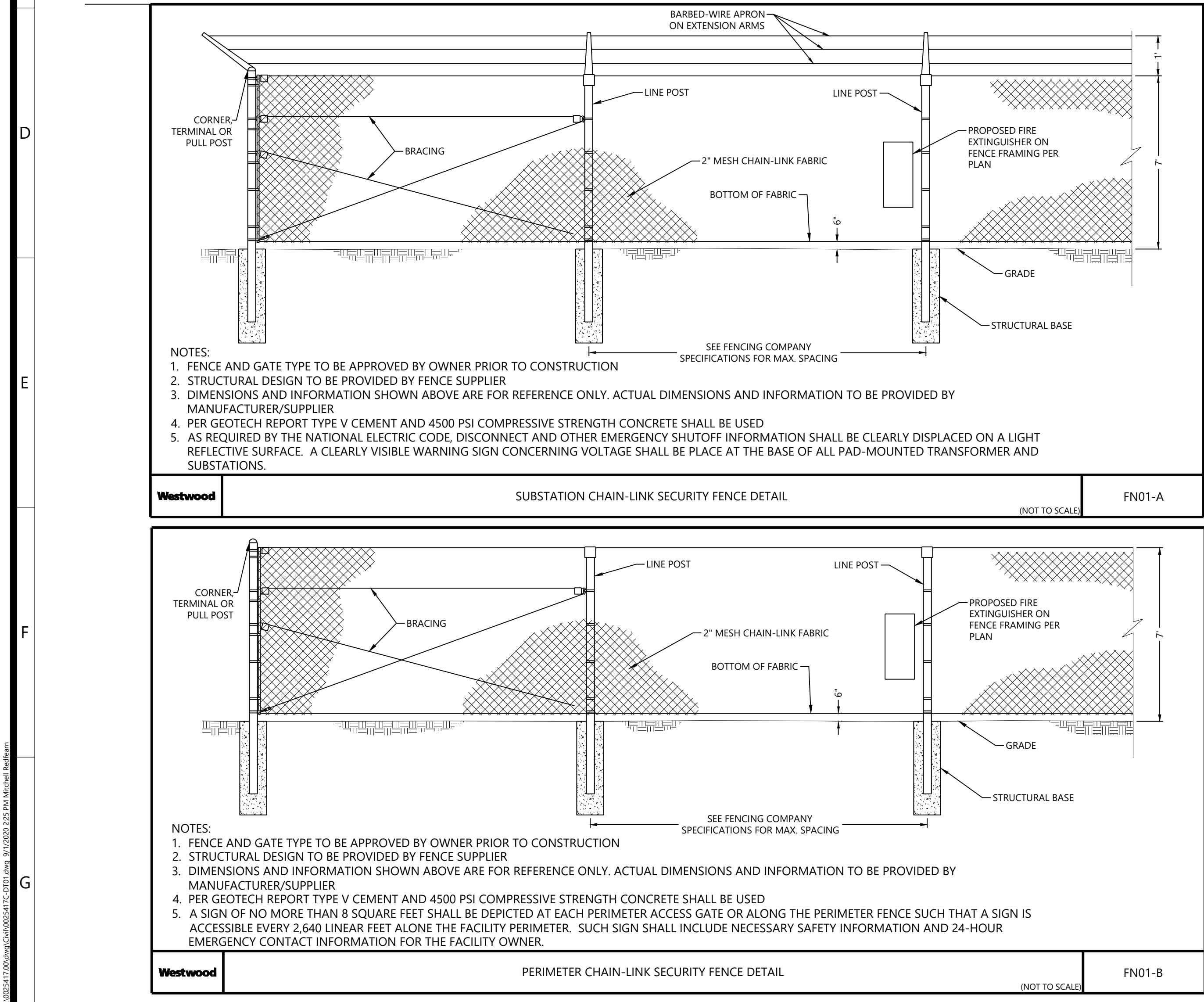


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Watkins Glen Solar Energy Center

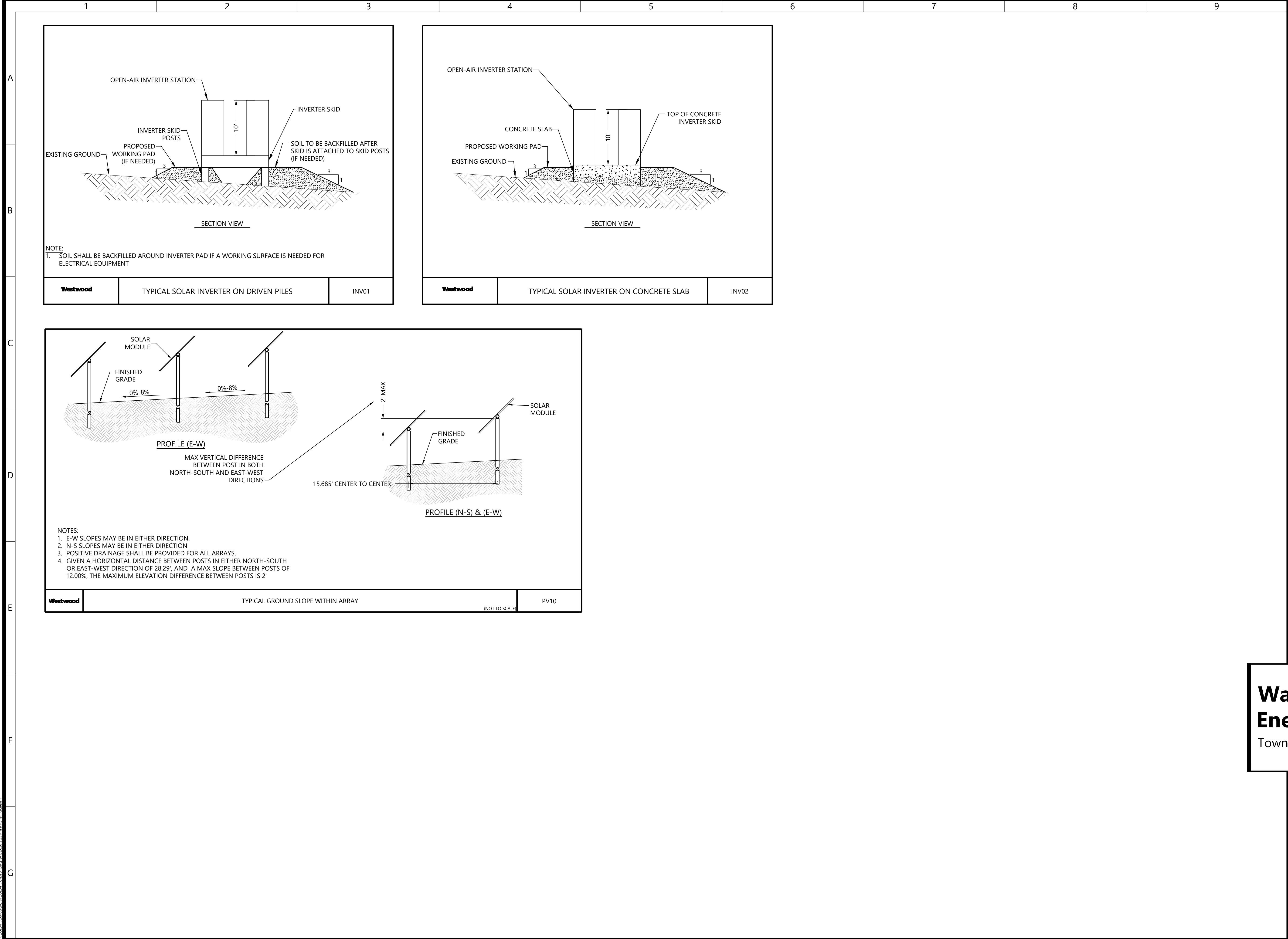
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Construction Details - 3

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Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

Construction Details - 4

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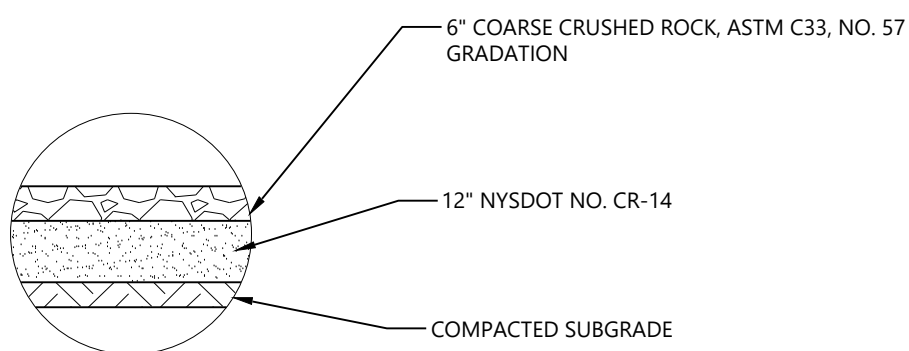
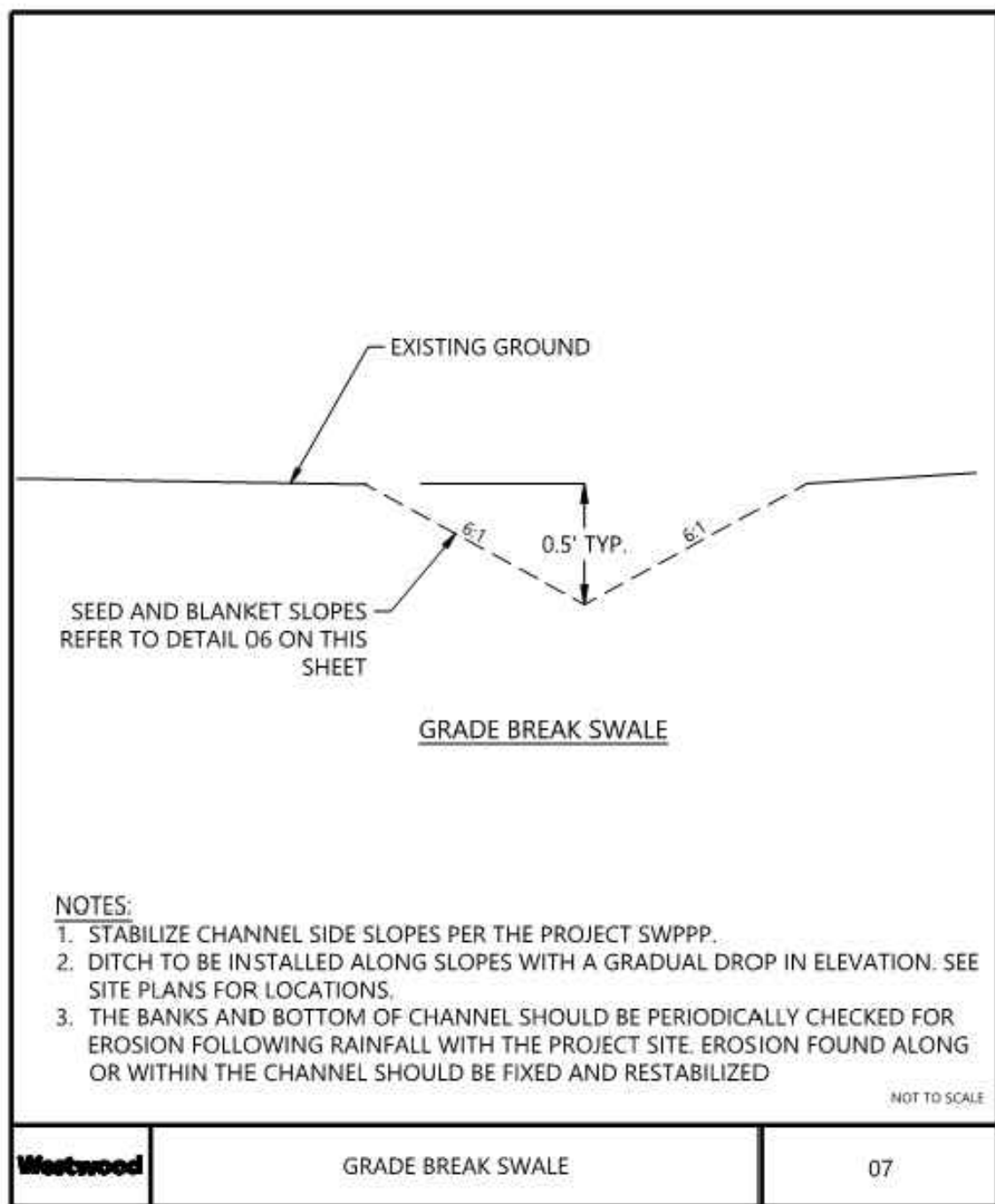
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SHEET: C.604



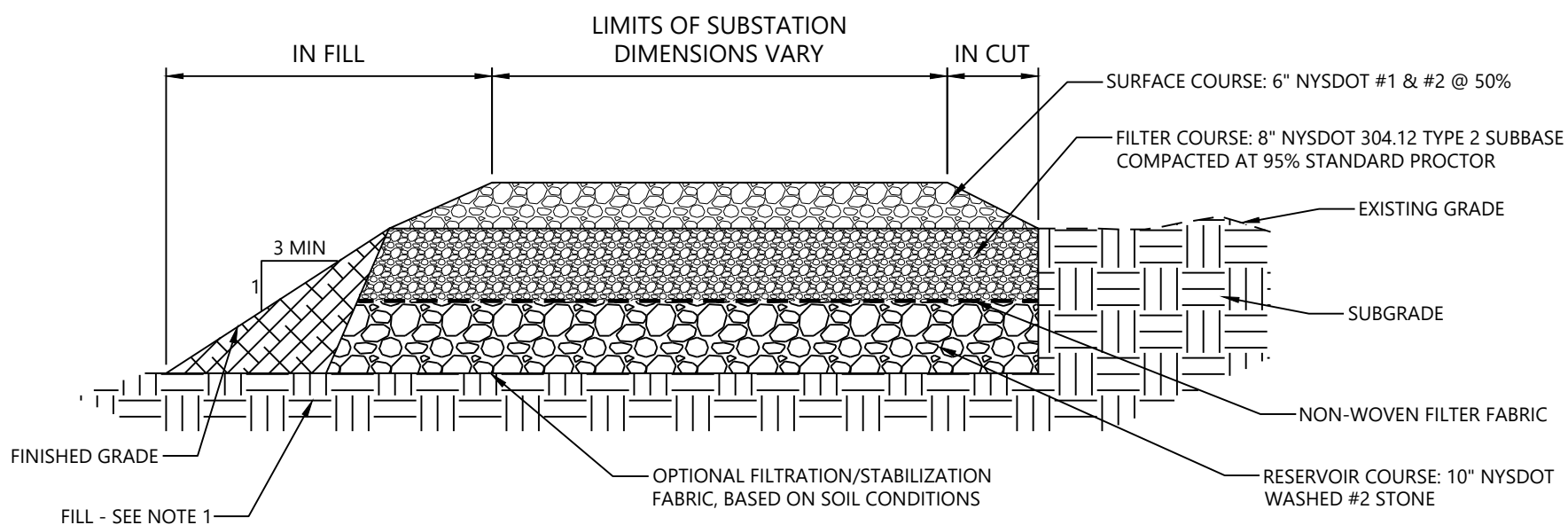
SUBSTATION PAD CROSS SECTION

*PRELIMINARY

NOTES:

1. STRUCTURAL SECTIONS SHOWN ARE THE MINIMUM THICKNESS REQUIREMENTS DURING NORMAL FIELD CONDITIONS. THE SECTIONS MAY NEED TO BE INCREASED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. CONDITIONS INCLUDE BUT ARE NOT LIMITED TO CONSTRUCTION DURING UNUSUALLY WET PERIODS, OR IN LOW/WET AREAS.
2. THIS DETAIL TO BE USED IN CONJUNCTION WITH NY DETAIL (FIGURE 6.12 INFILTRATION BASIN (I-2)).

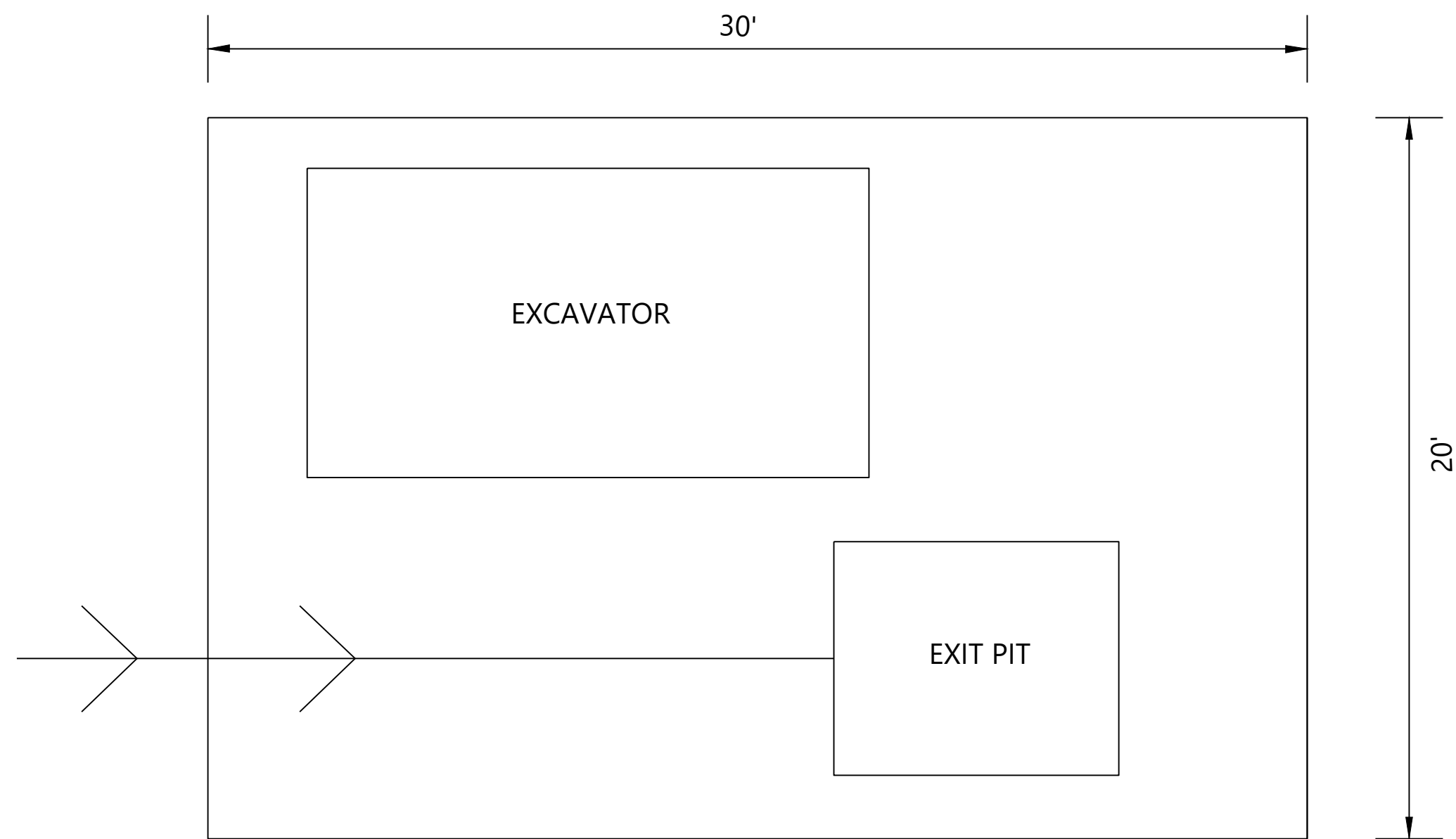
Westwood	SUBSTATION SECTION - OPTION 1: SUBSTATION PAD INFILTRATION BASIN	RD02-A
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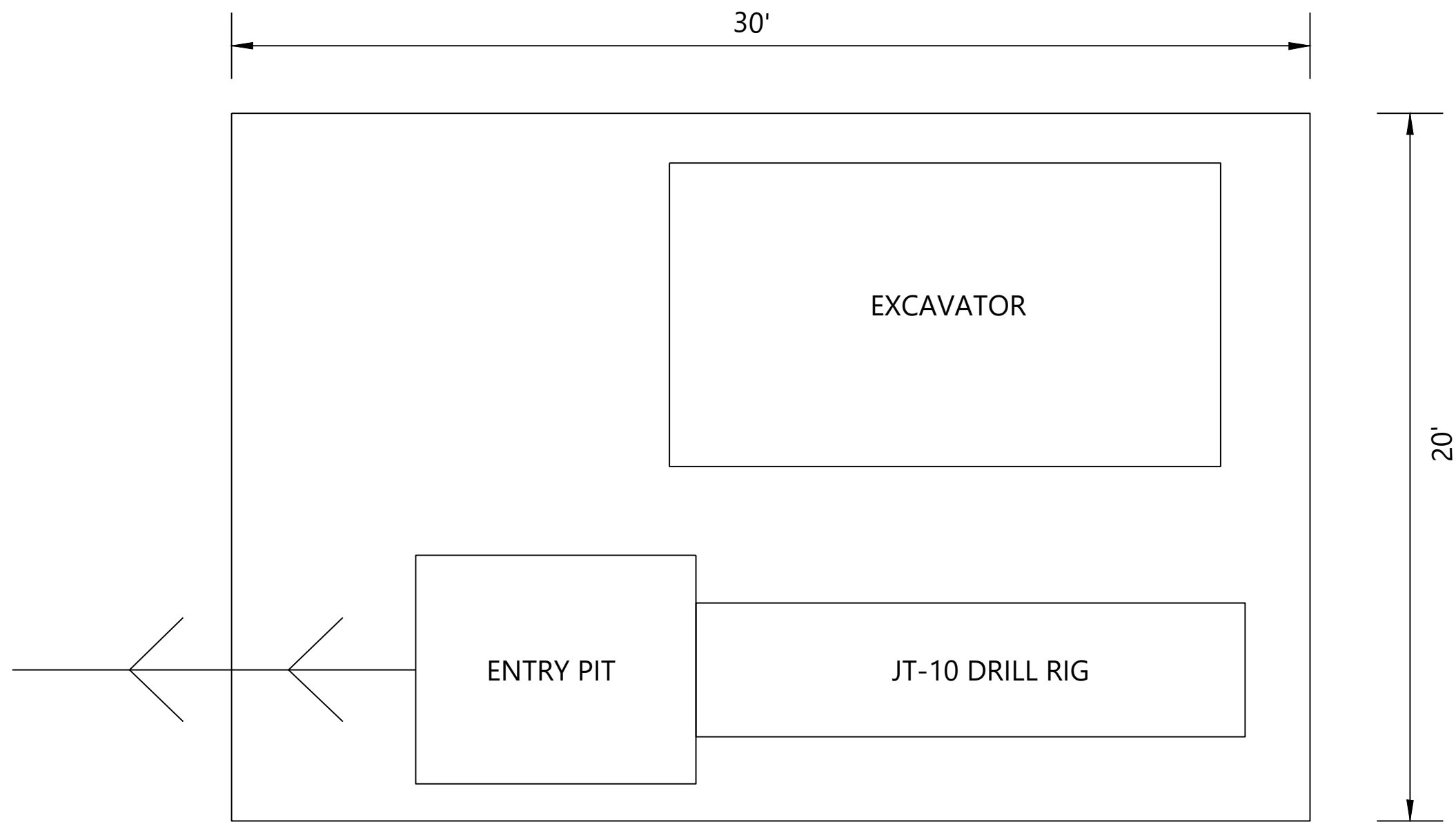
NOTES:

1. ALL FILL USED FOR SIDE SLOPES SHALL BE ONSITE MATERIAL FROM AREA CUT TO CREATE THE SUBSTATION OR SHALL BE OFFSITE FILL COMPACTED TO HAVE AN INFILTRATION RATE LESS THAN THE SUBSTATION SUBGRADE.
2. INFILTRATION TESTING SHALL BE COMPLETED AS REQUIRED BY APPENDIX D OF THE 2010 NYS STORMWATER MANAGEMENT DESIGN MANUAL, OR AS APPROVED BY THE NYS OR REGIONAL OFFICE OR MSA REPRESENTATIVE.
3. THIS SECTION SHALL BE APPLICABLE TO MEET THE STORMWATER MANAGEMENT REQUIREMENTS OF NEW DEVELOPMENT AND REDEVELOPMENT PROJECTS, PER THE 2010 NYS STORMWATER MANAGEMENT DESIGN MANUAL, FOR SITES WITH INFILTRATION RATES OF GREATER THAN OR EQUAL TO 0.5 INCHES PER HOUR.
4. IF INFILTRATION BASIN PER NYS DETAIL (FIGURE 6.12 INFILTRATION BASIN (1-2)) IS NOT USED, CONTRACTOR TO USE DETAIL RD02-B.

Westwood	SUBSTATION SECTION - OPTION 2: SUBSTATION PAD INFILTRATION BASIN	RD02-B
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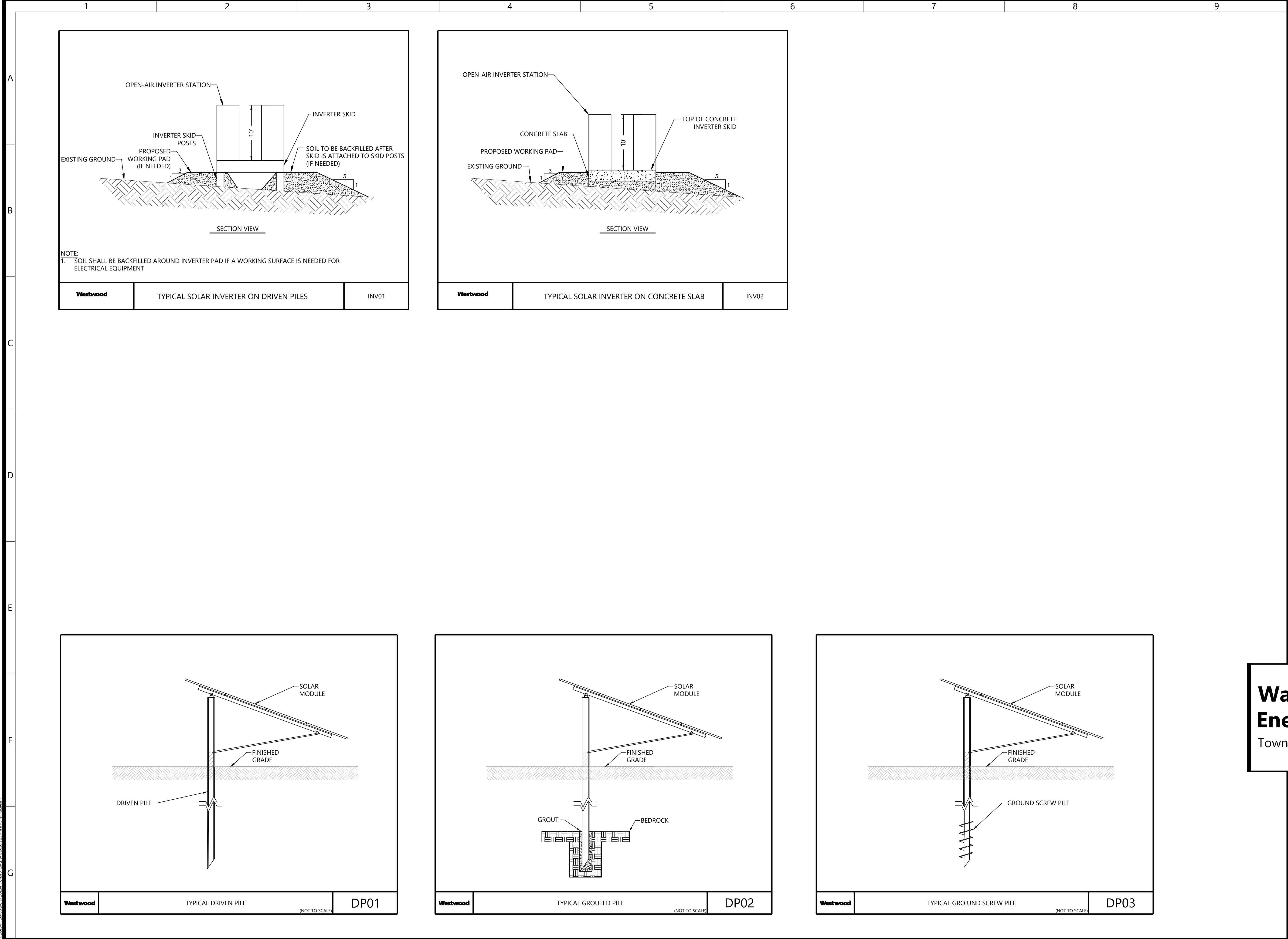


HDD RECEIVING SITE SCHEMATIC



DRILL OPERATION SITE SCHEMATIC

Westwood	HORIZONTAL DIRECTIONAL DRILLING PIT SCHEMATIC (NTS)	HDD-01
-----------------	---	--------



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Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

Construction Details - 6

PRELIMINARY
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SHEET: C.605

Figure 2.1
Stabilized Construction Access

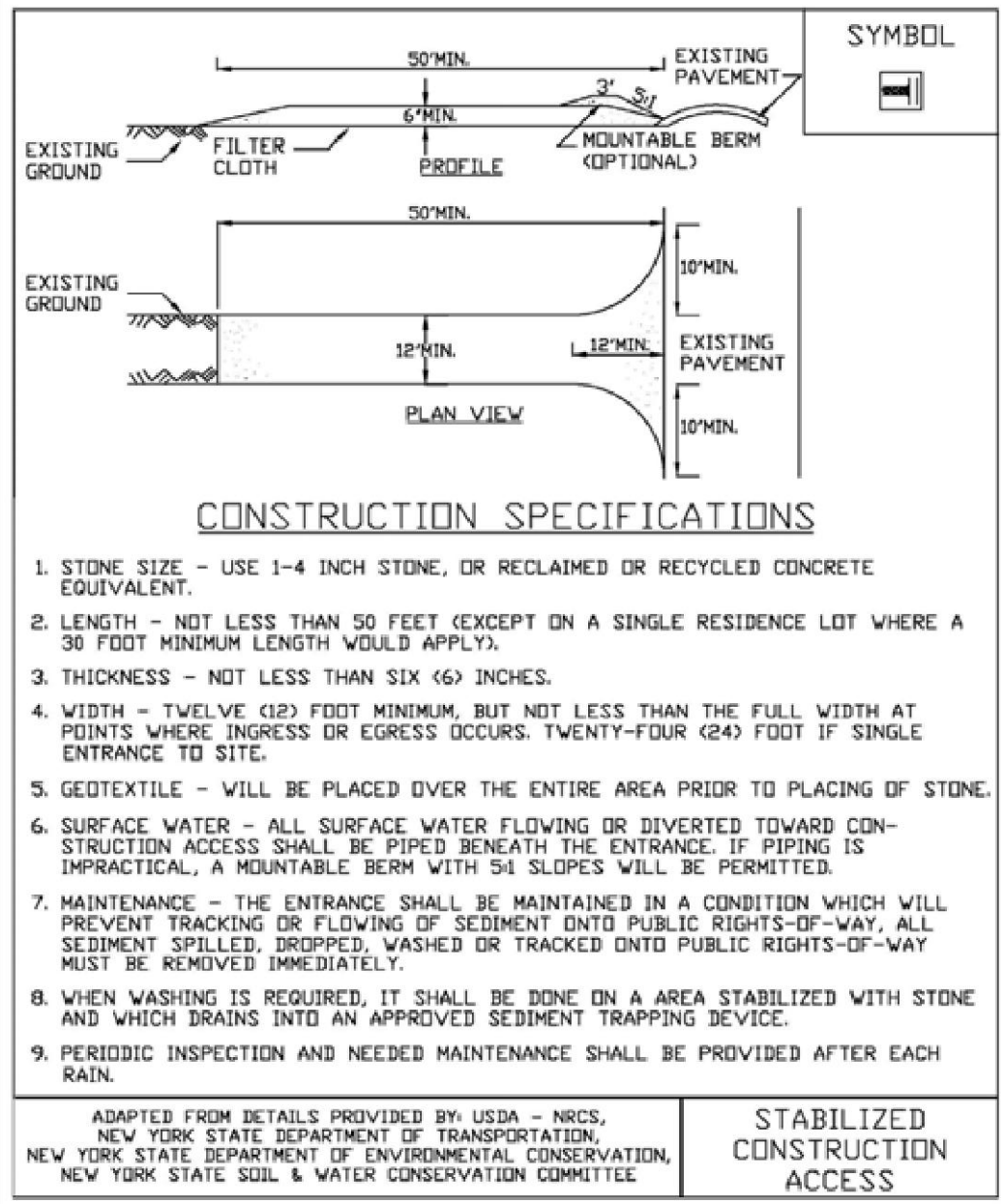


Figure 2.2
Temporary Access Bridge

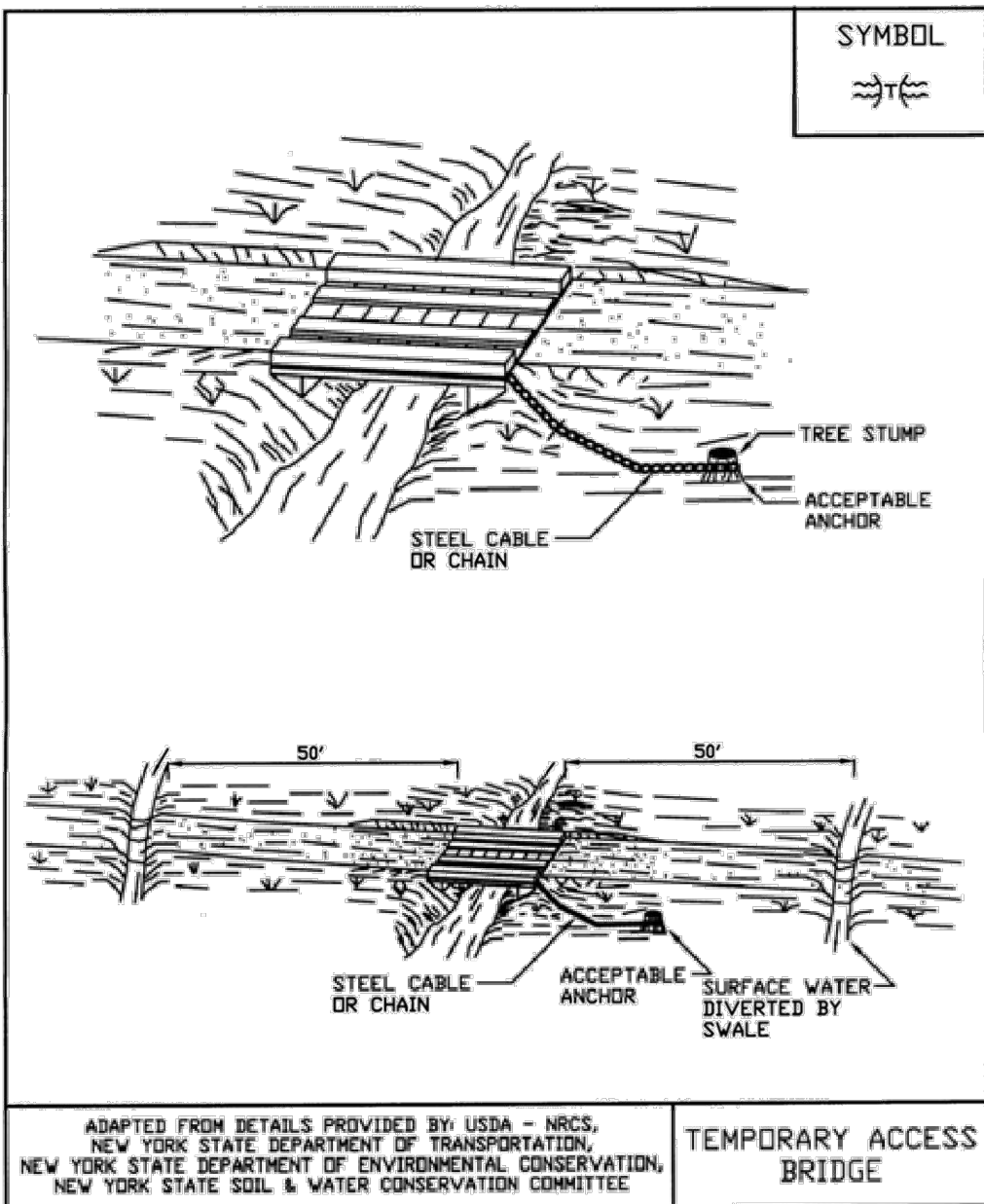


Figure 2.3
Temporary Access Culvert

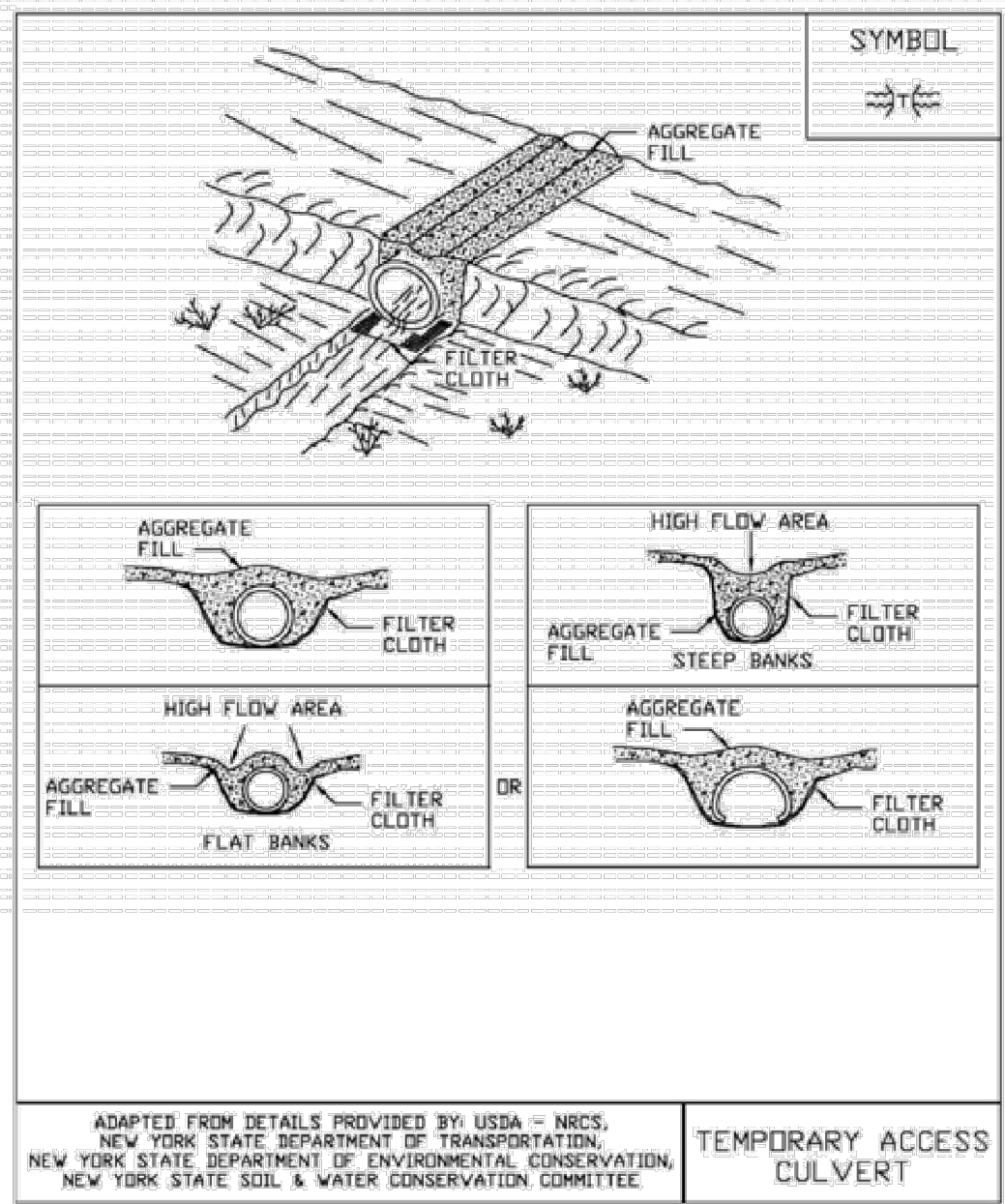


Figure 3.1
Stone Check Dam Detail

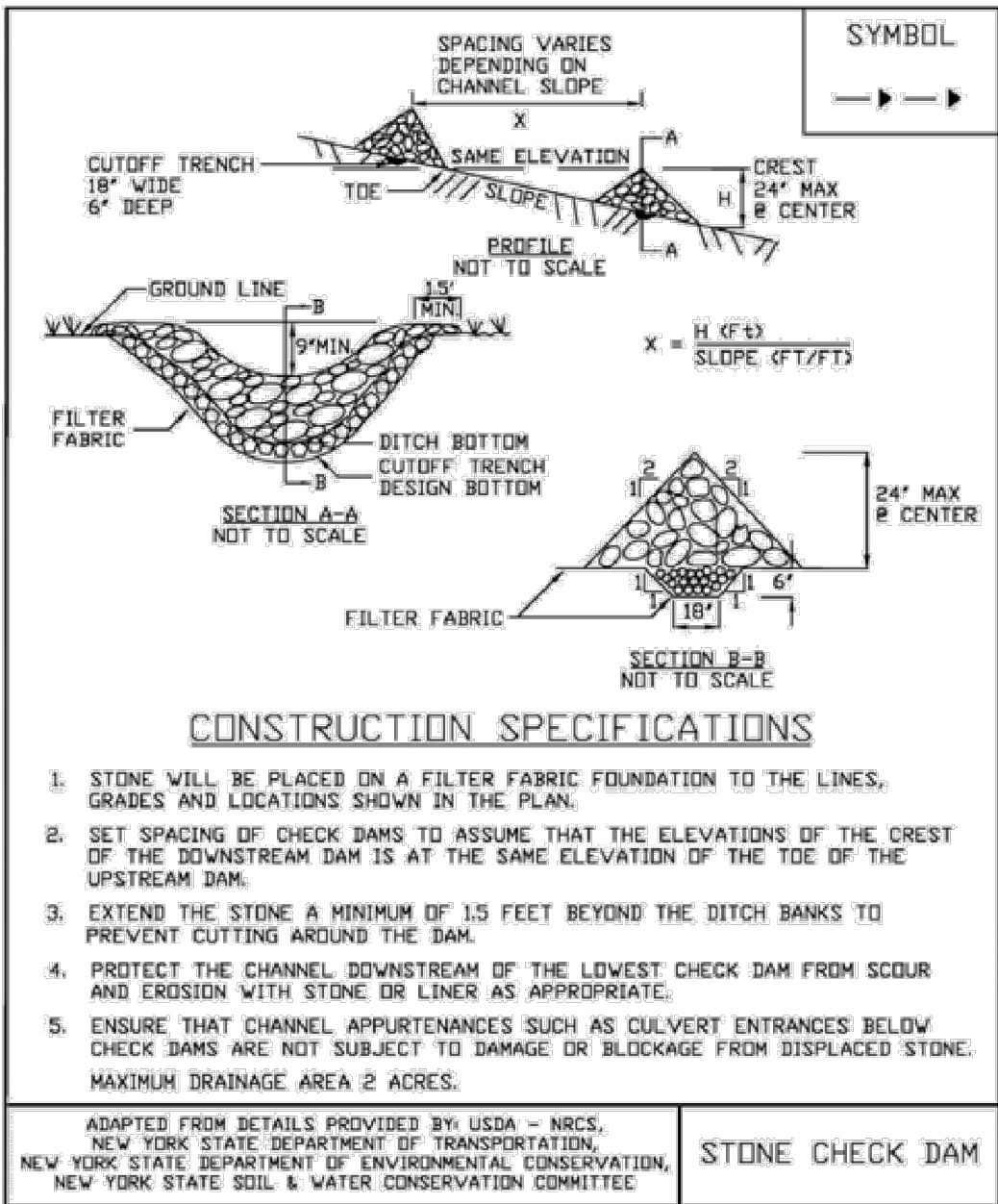
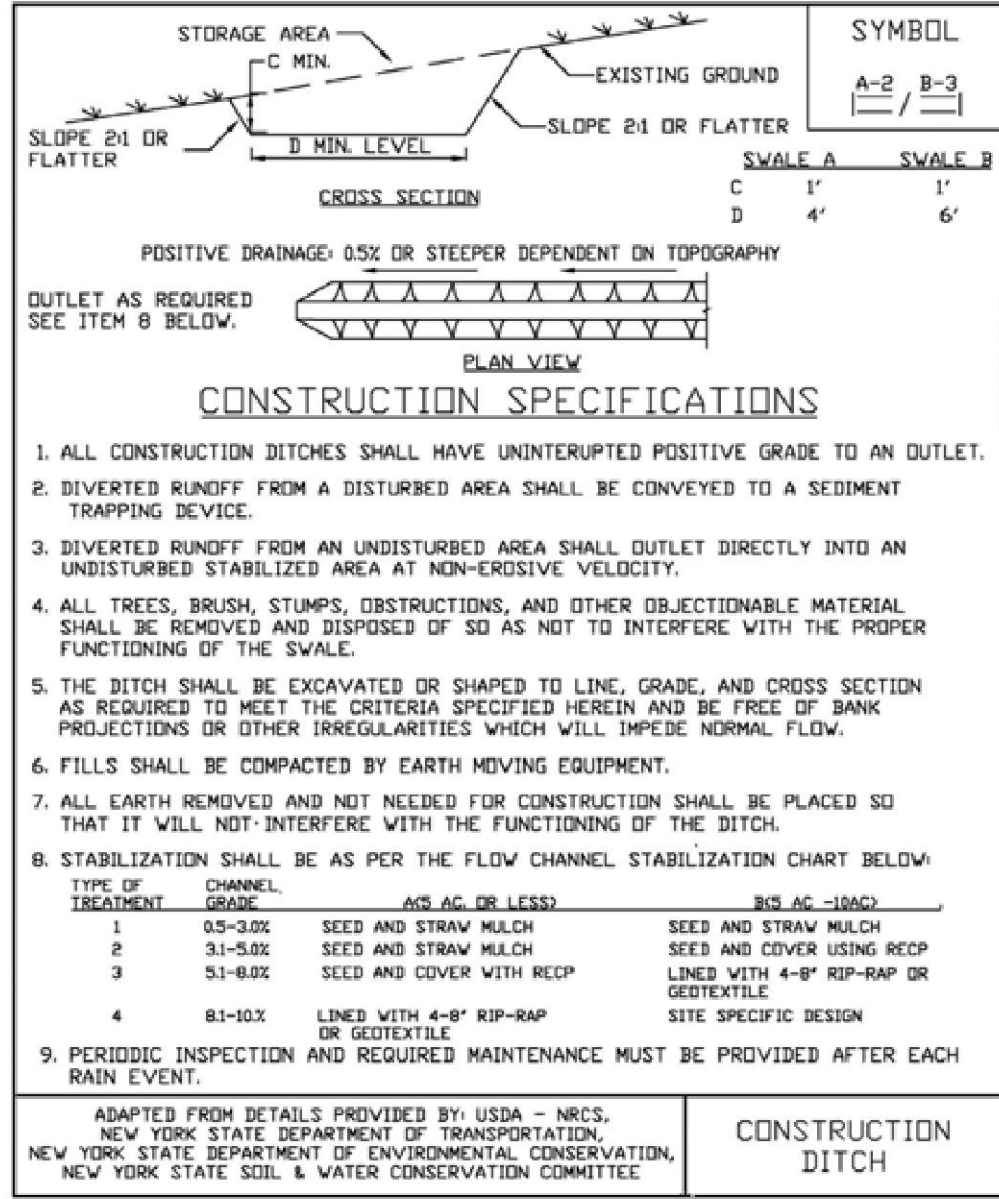


Figure 3.2
Construction Ditch Detail



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Watkins Glen Solar Energy Center

Town of Dix, Schuyler County

New York Erosion
Control Details - 1

PRELIMINARY
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Figure 3.6
Flow Diffuser Detail

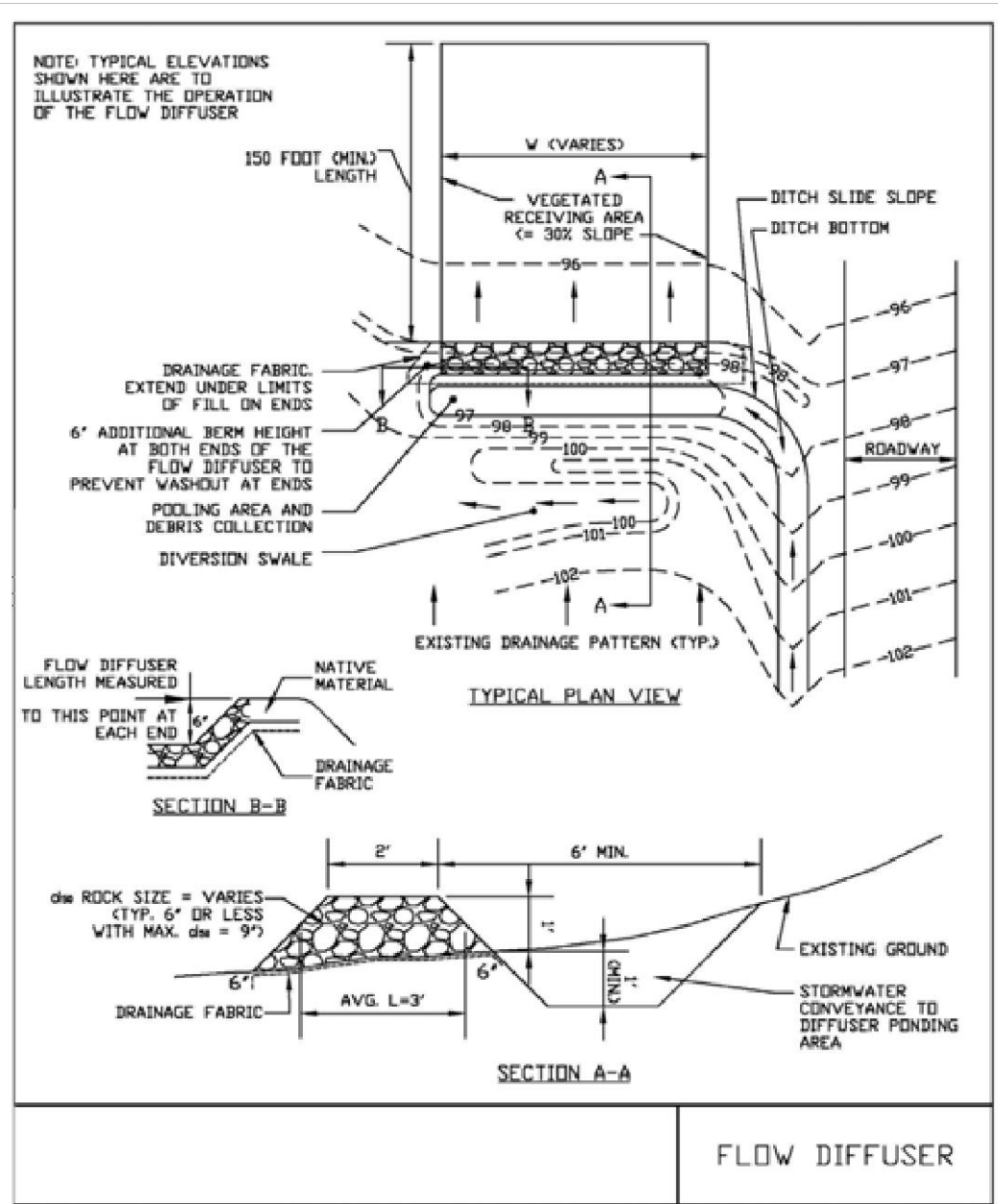


Figure 3.18
Riprap Outlet Protection Detail (1)

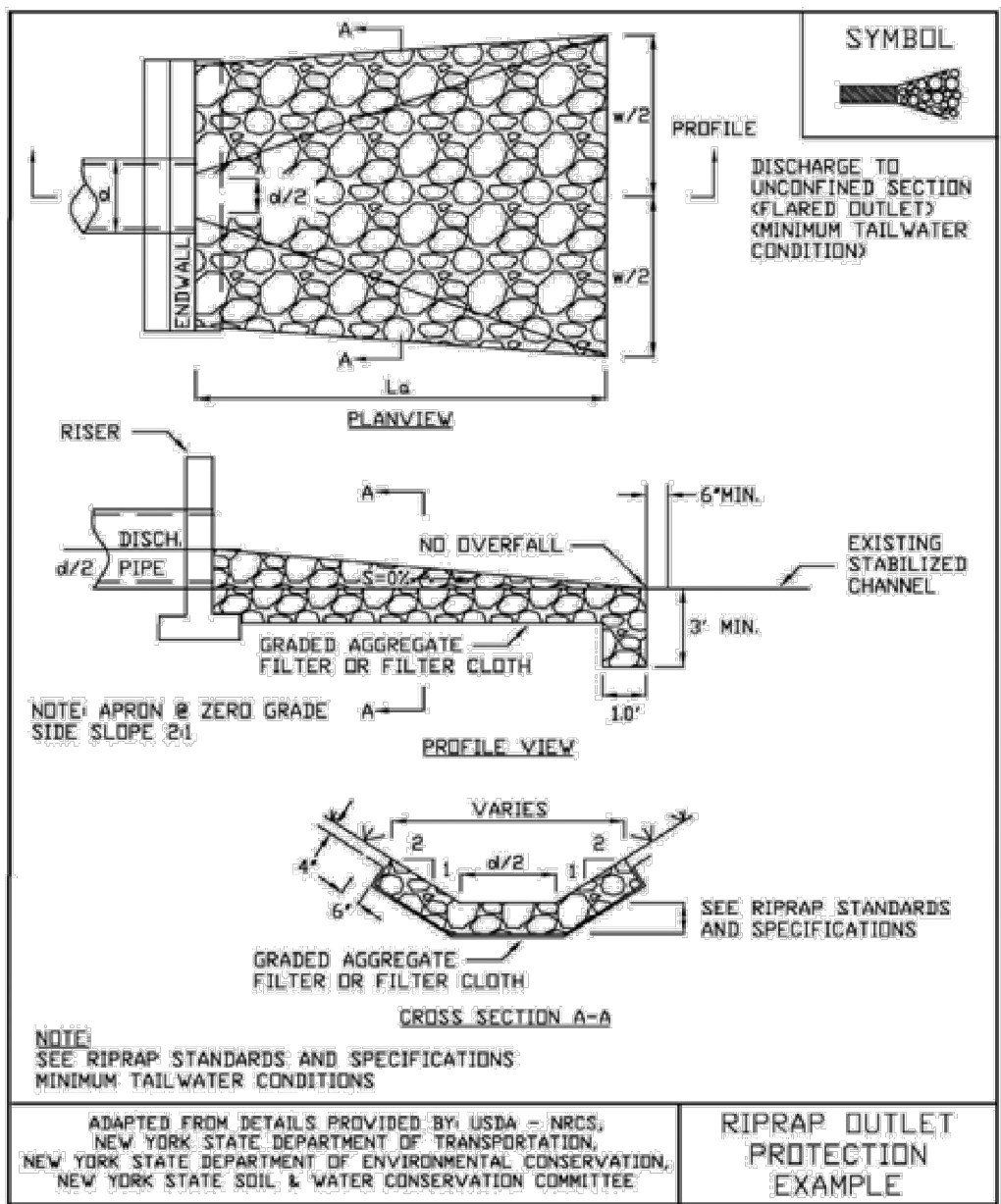


Figure 3.19
Riprap Outlet Protection Detail (2)

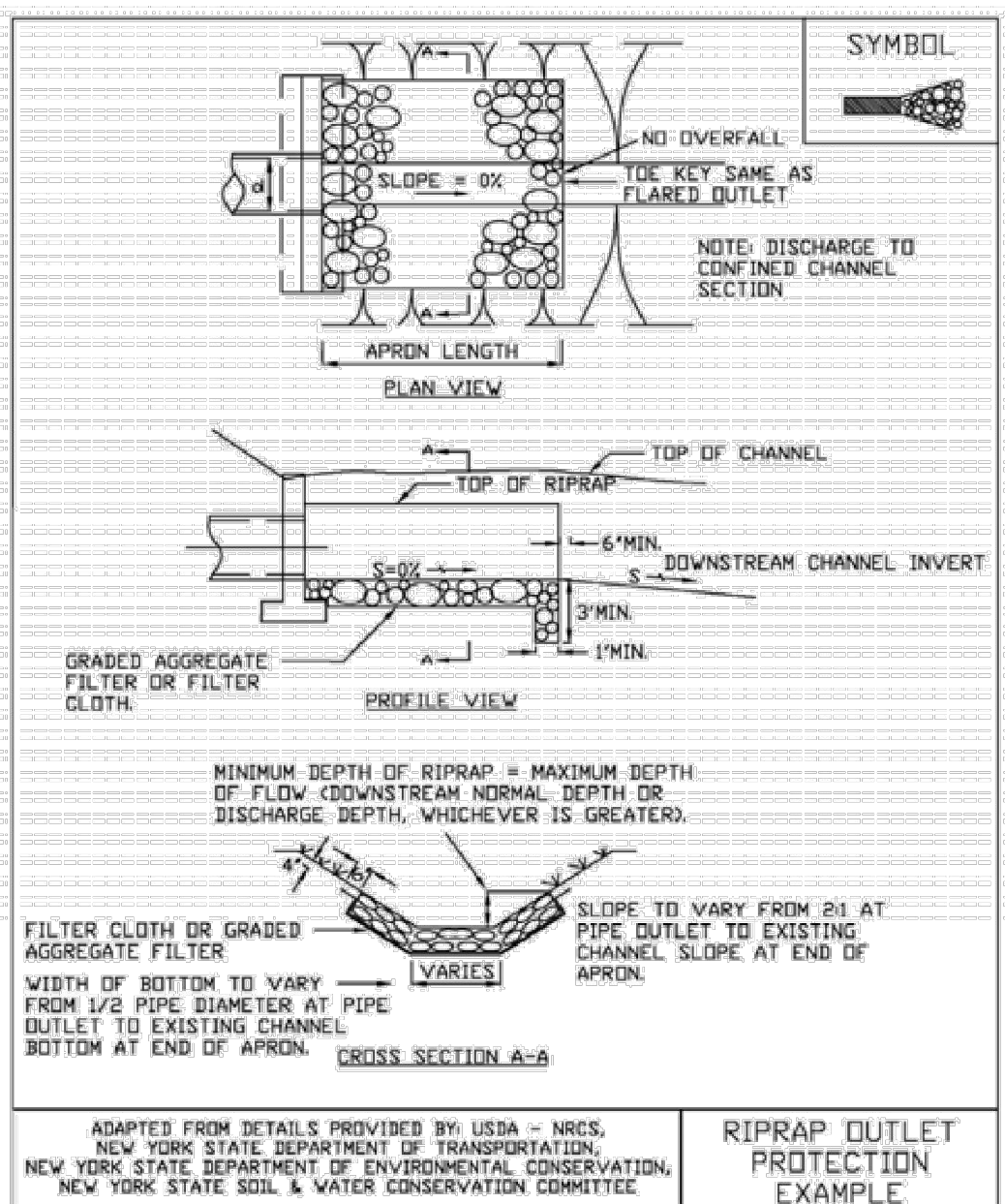


Figure 3.20
Riprap Outlet Protection Detail (3)

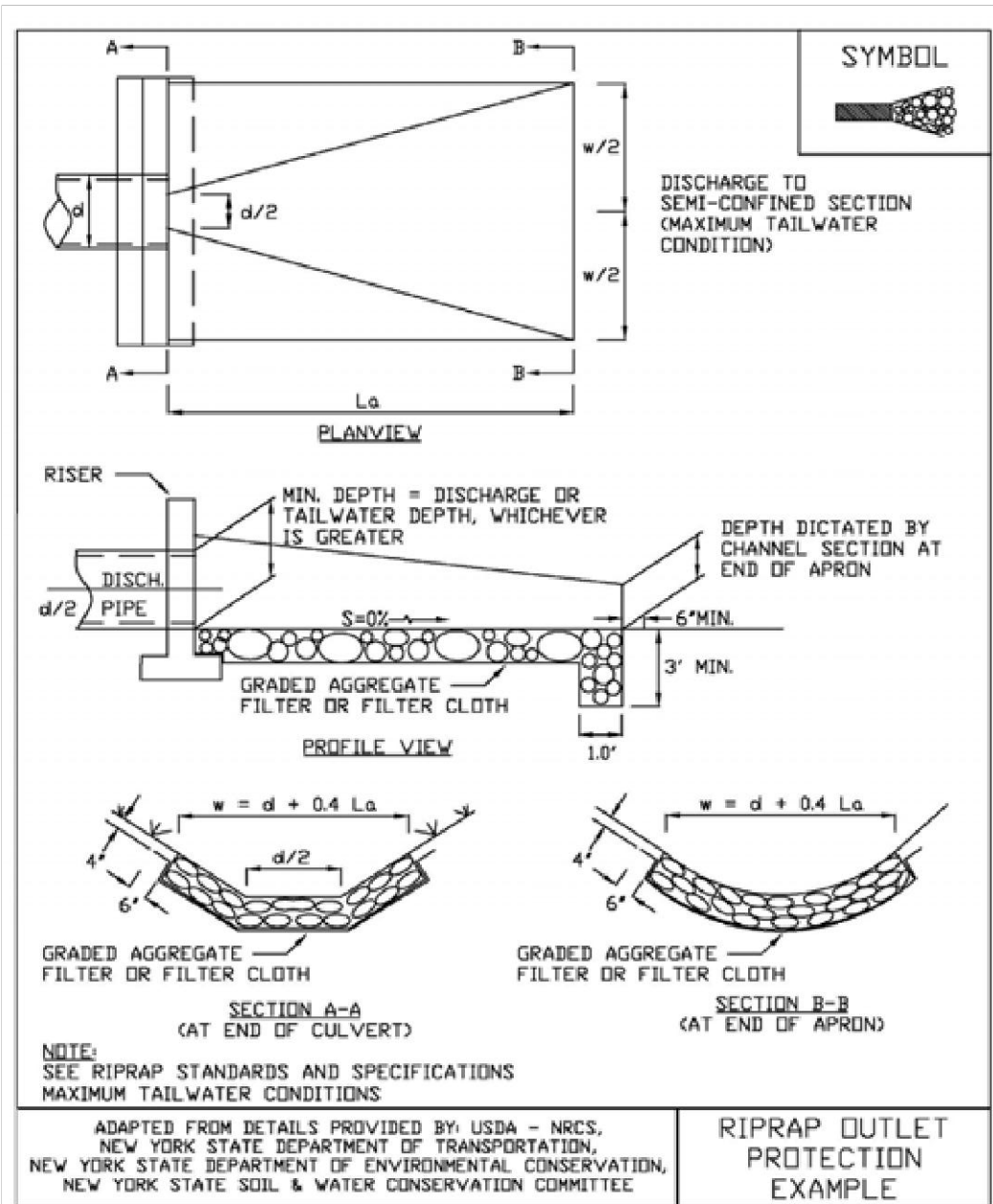


Figure 3.22
Water Bar Detail

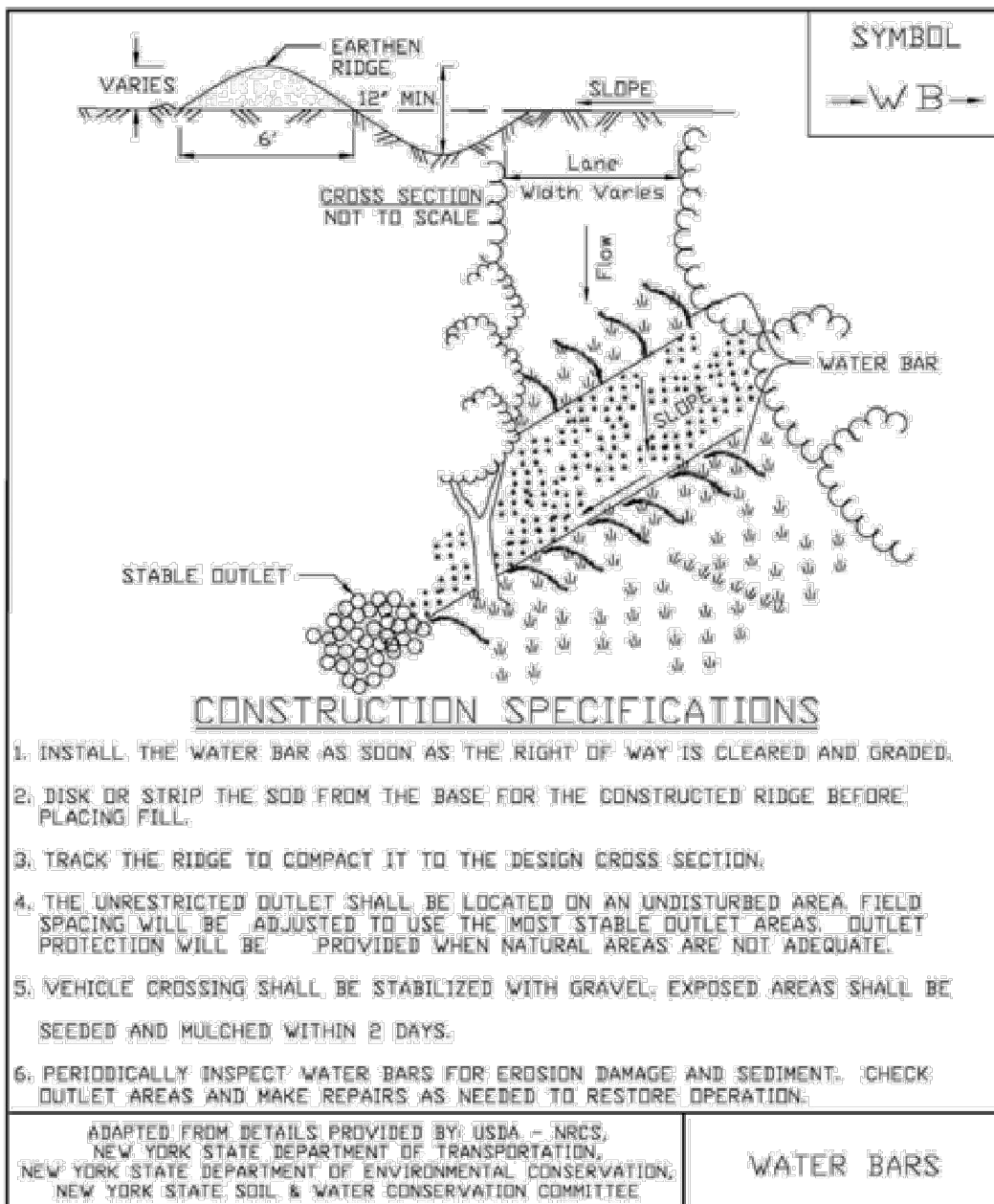
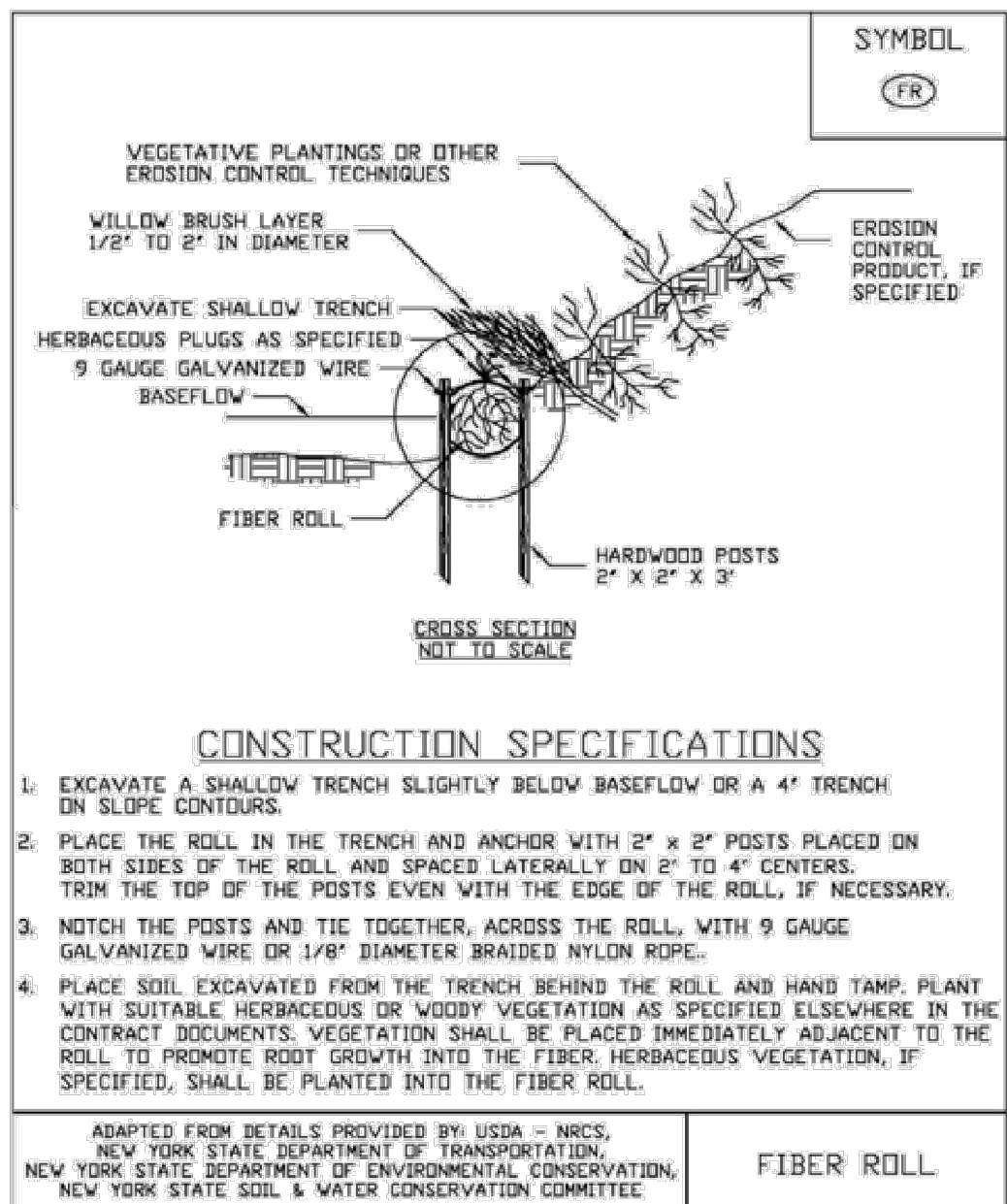


Figure 4.8
Fiber Roll



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Town of Dix, Schuyler County

New York Erosion
Control Details - 2

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DATE: 09/01/2020

SHEET: C.607

A
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C
D
E
F
G

Figure 4.1
Angles of Repose of Riprap Stones (FHWA)

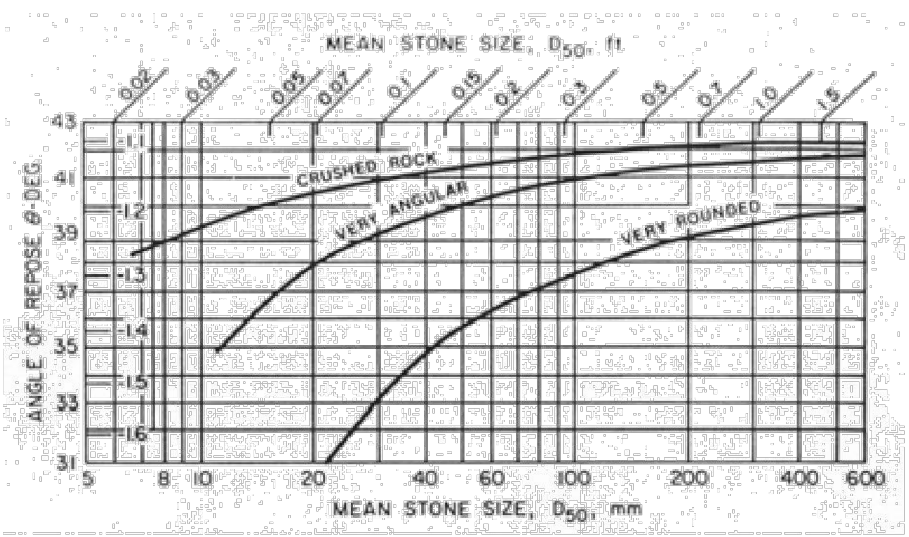


Figure 4.2
Typical Riprap Slope Protection Detail

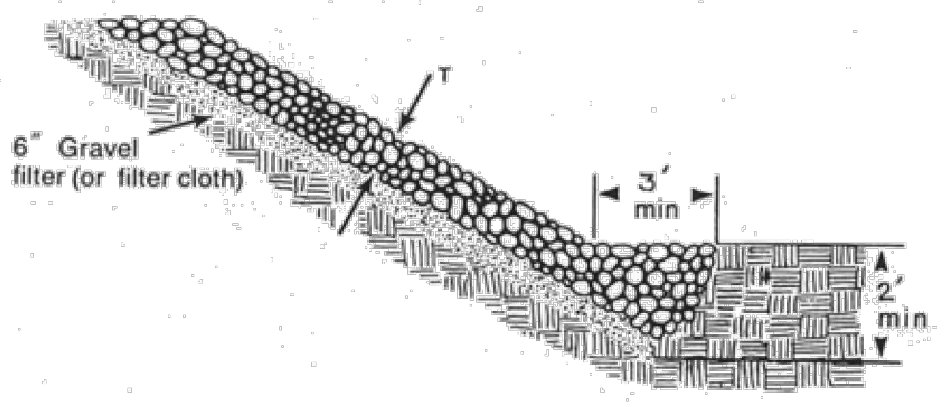


Figure 4.3
Riprap Channel Stabilization

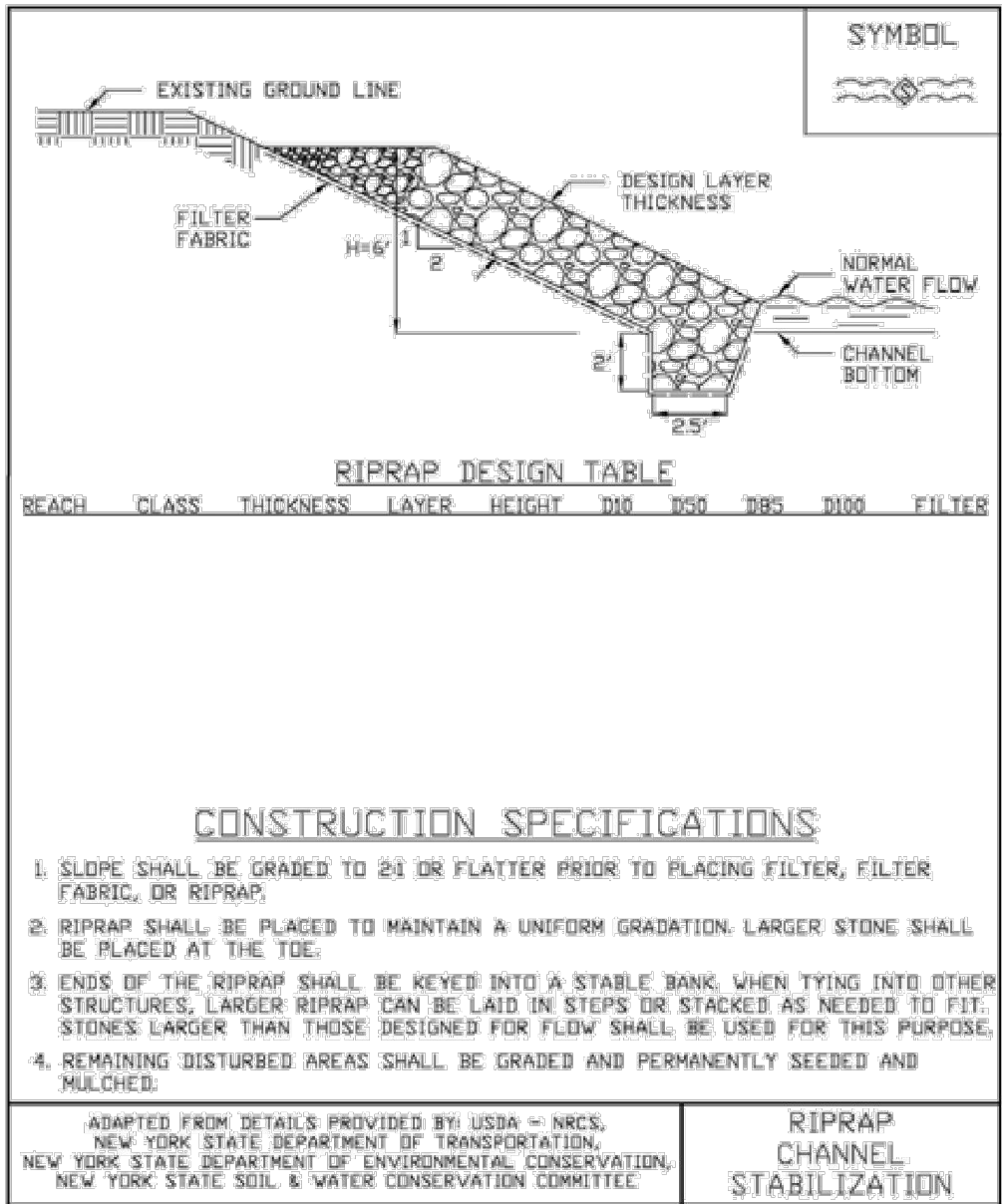


Figure 4.4
Channel Stabilization Methods

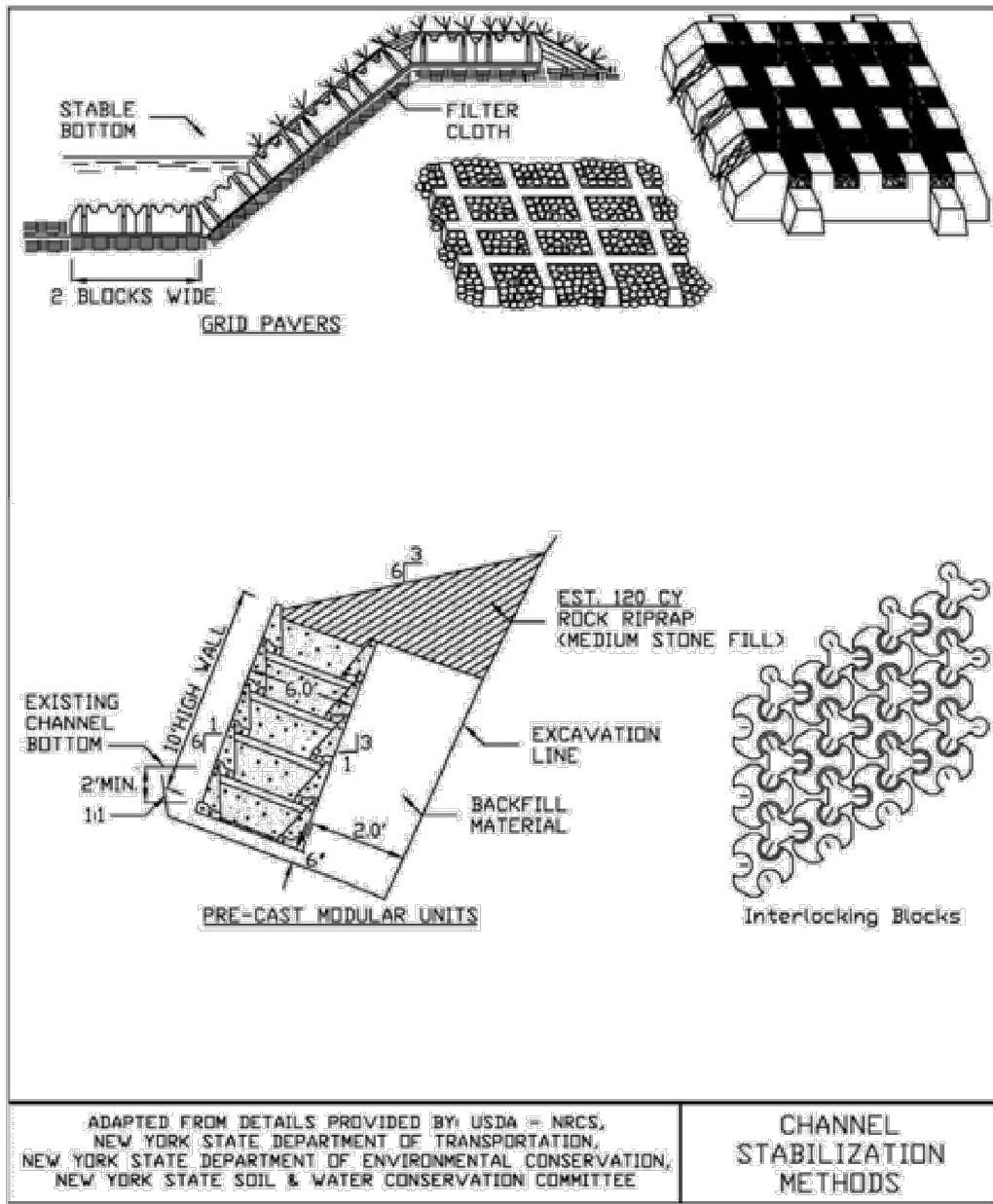


Figure 4.9
Typical Section of Serrated Cut Slope

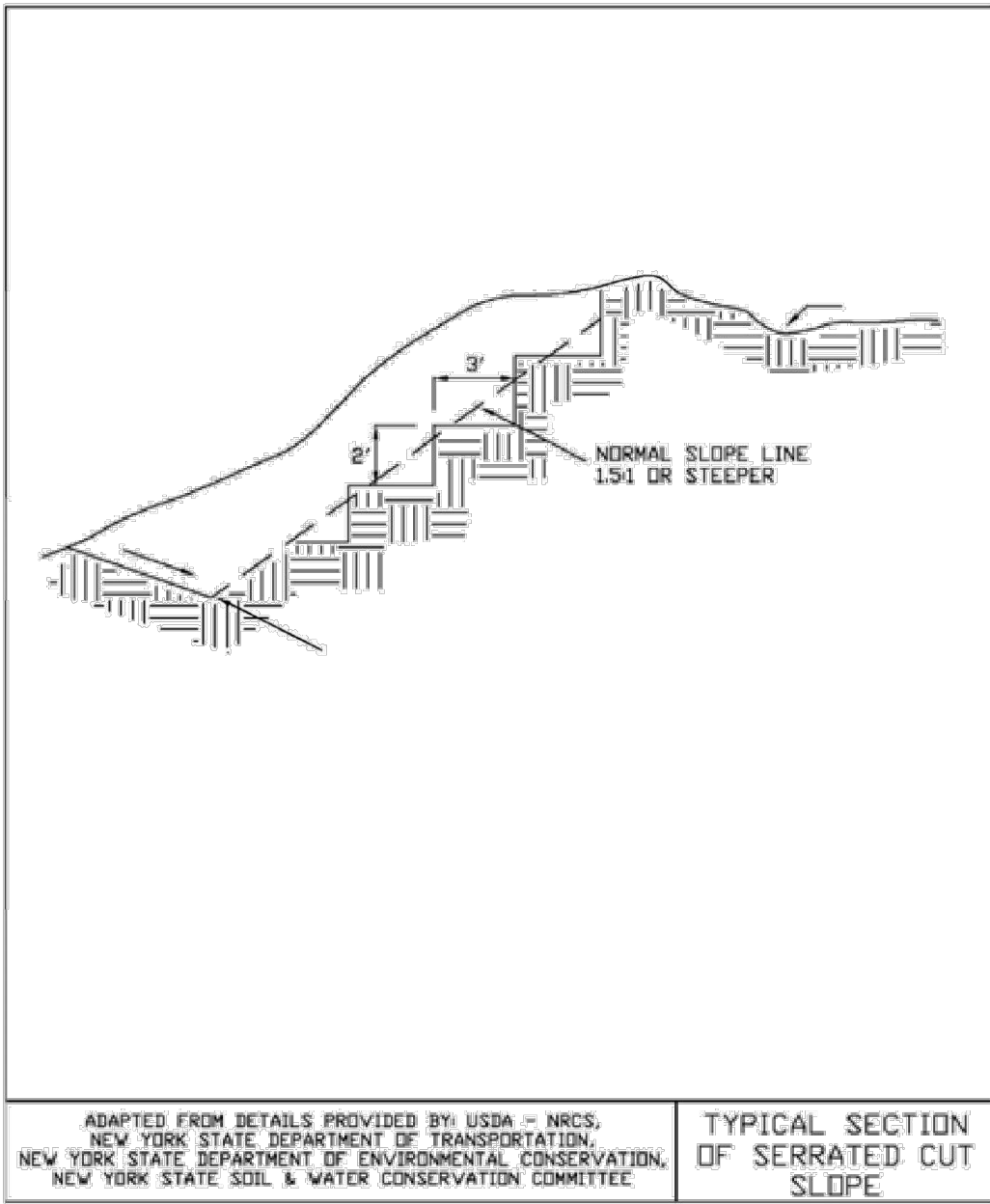


Figure 4.10
Landgrading

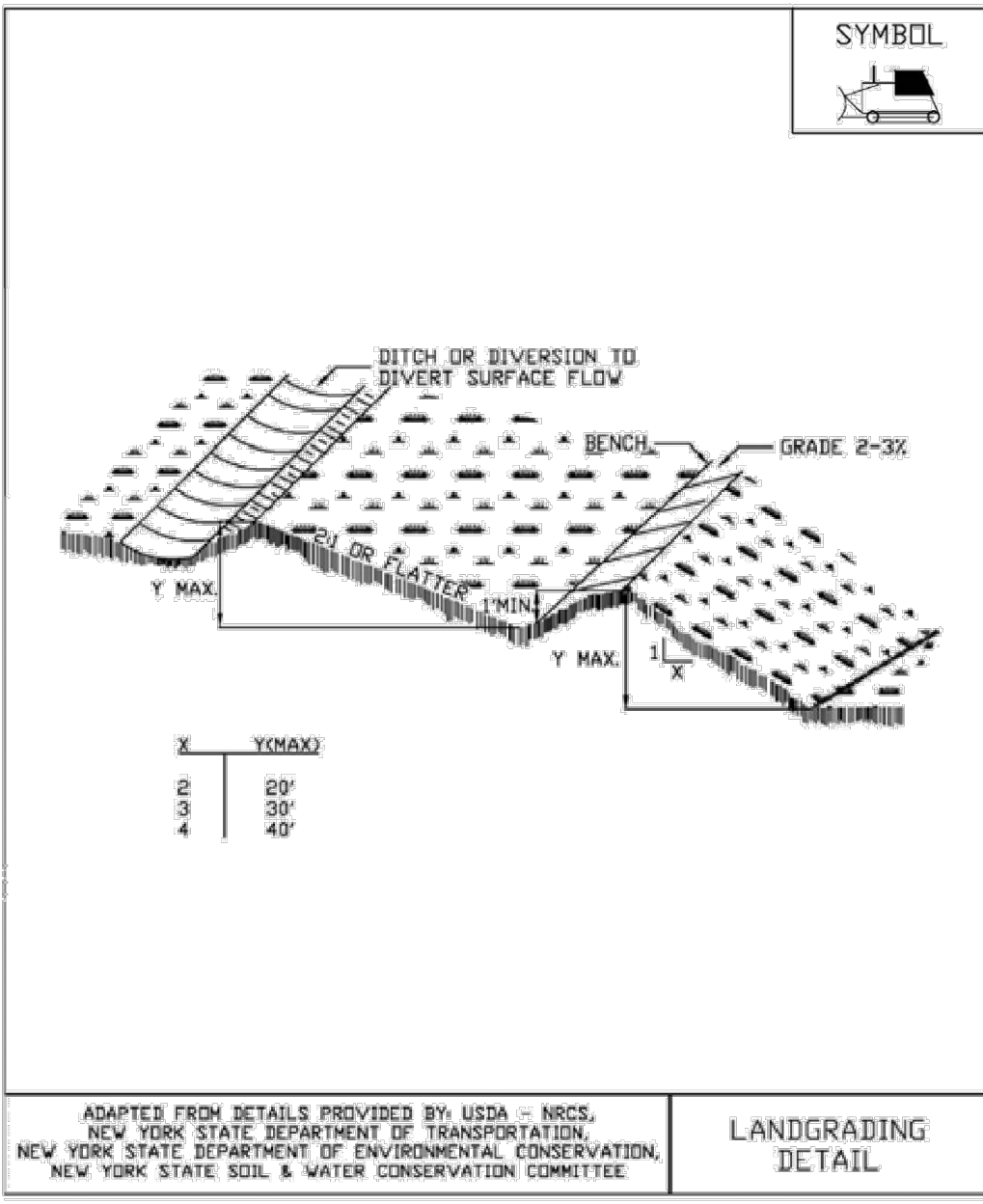
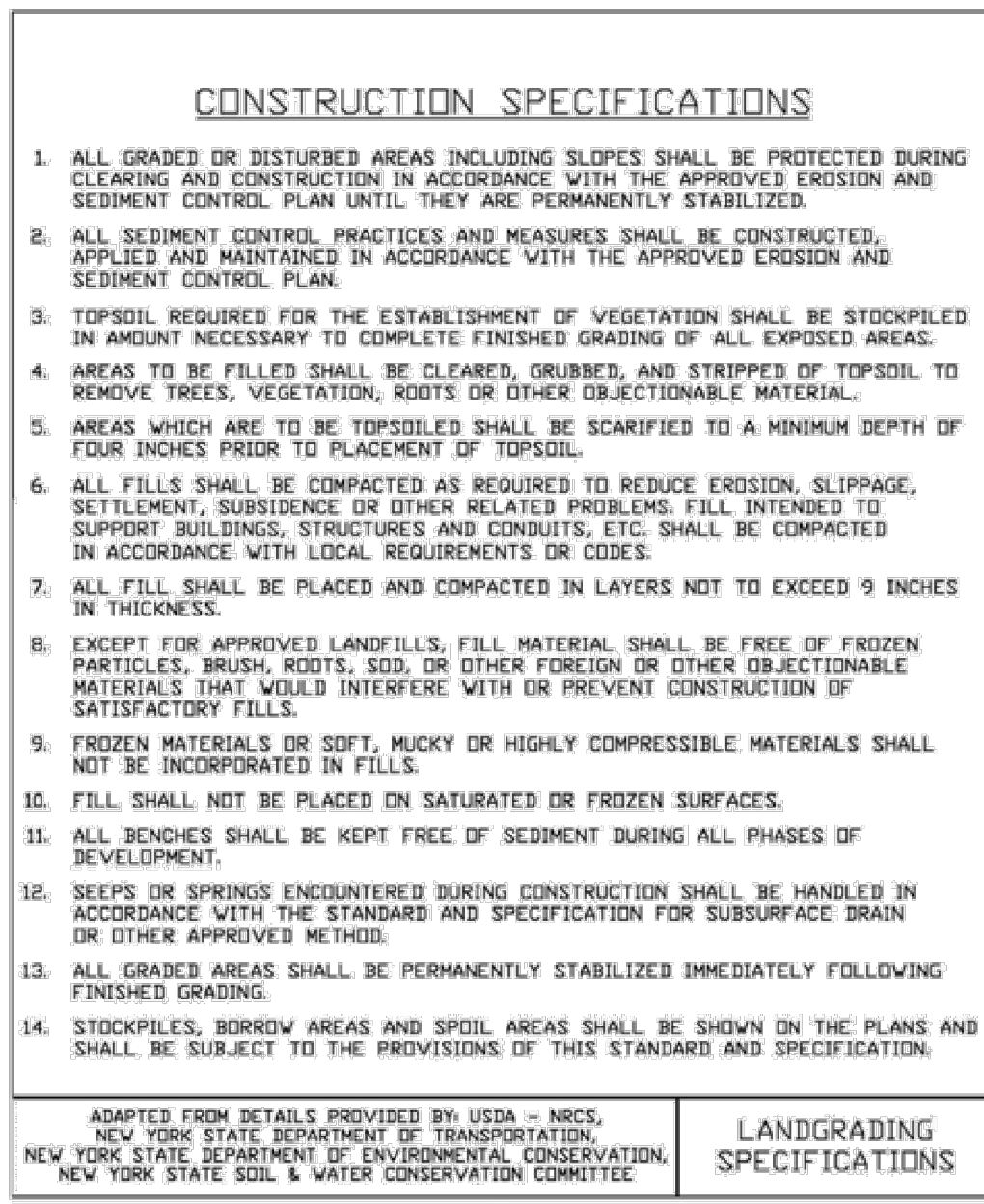


Figure 4.11
Landgrading - Construction Specifications



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**New York Erosion
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Figure 4.18
Surface Roughening

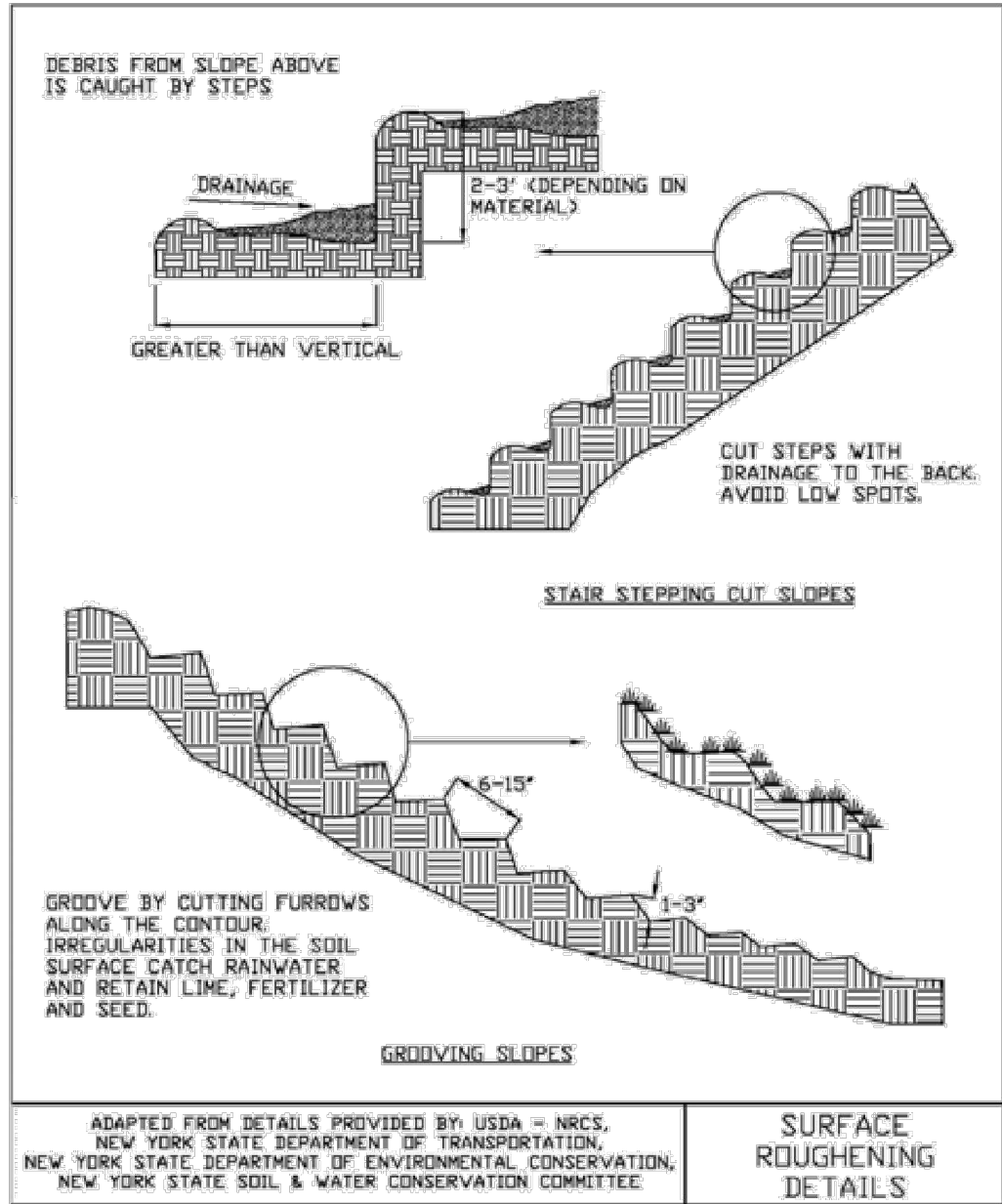


Figure 5.7
Rock Dam

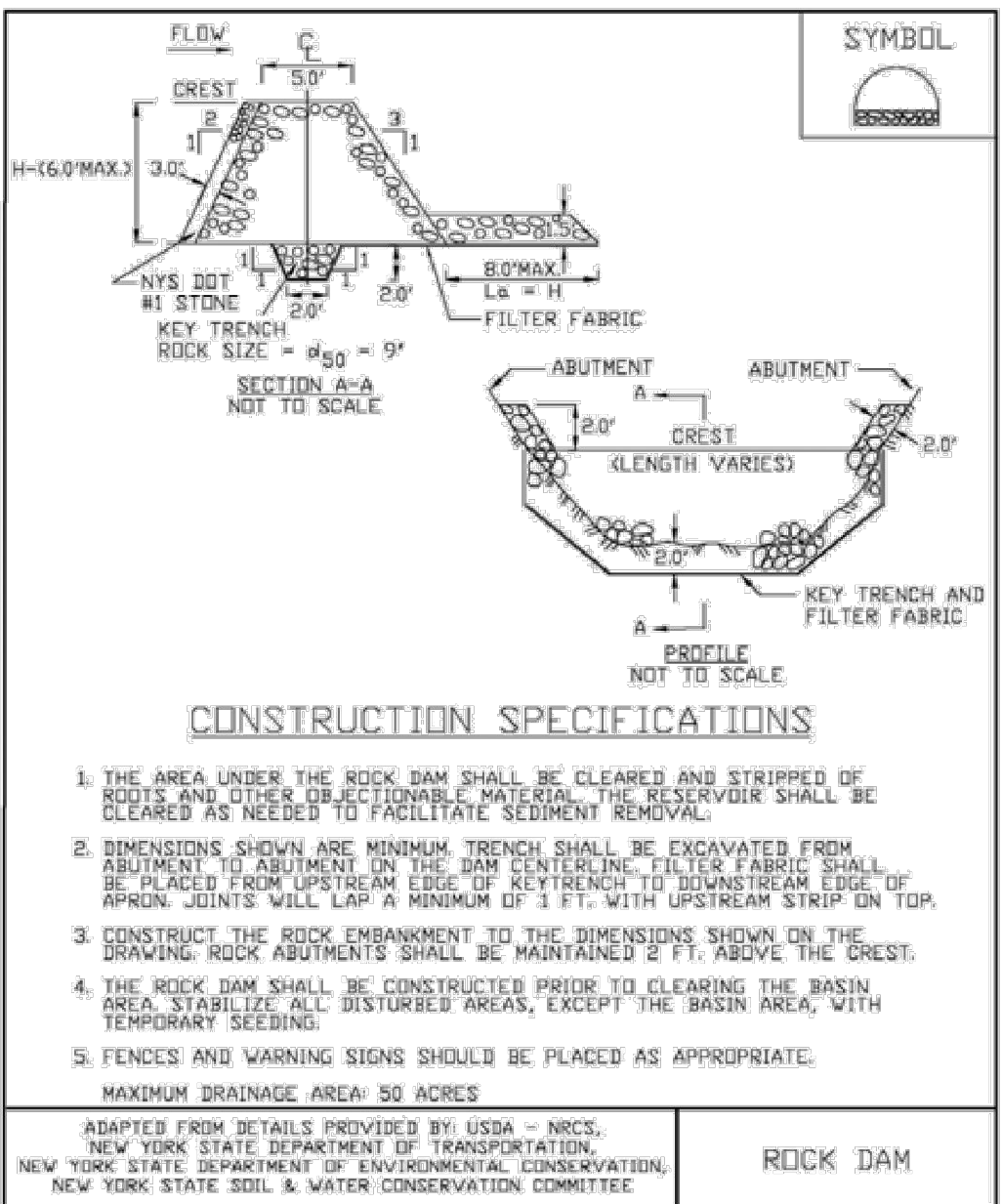


Figure 5.2
Compost Filter Sock

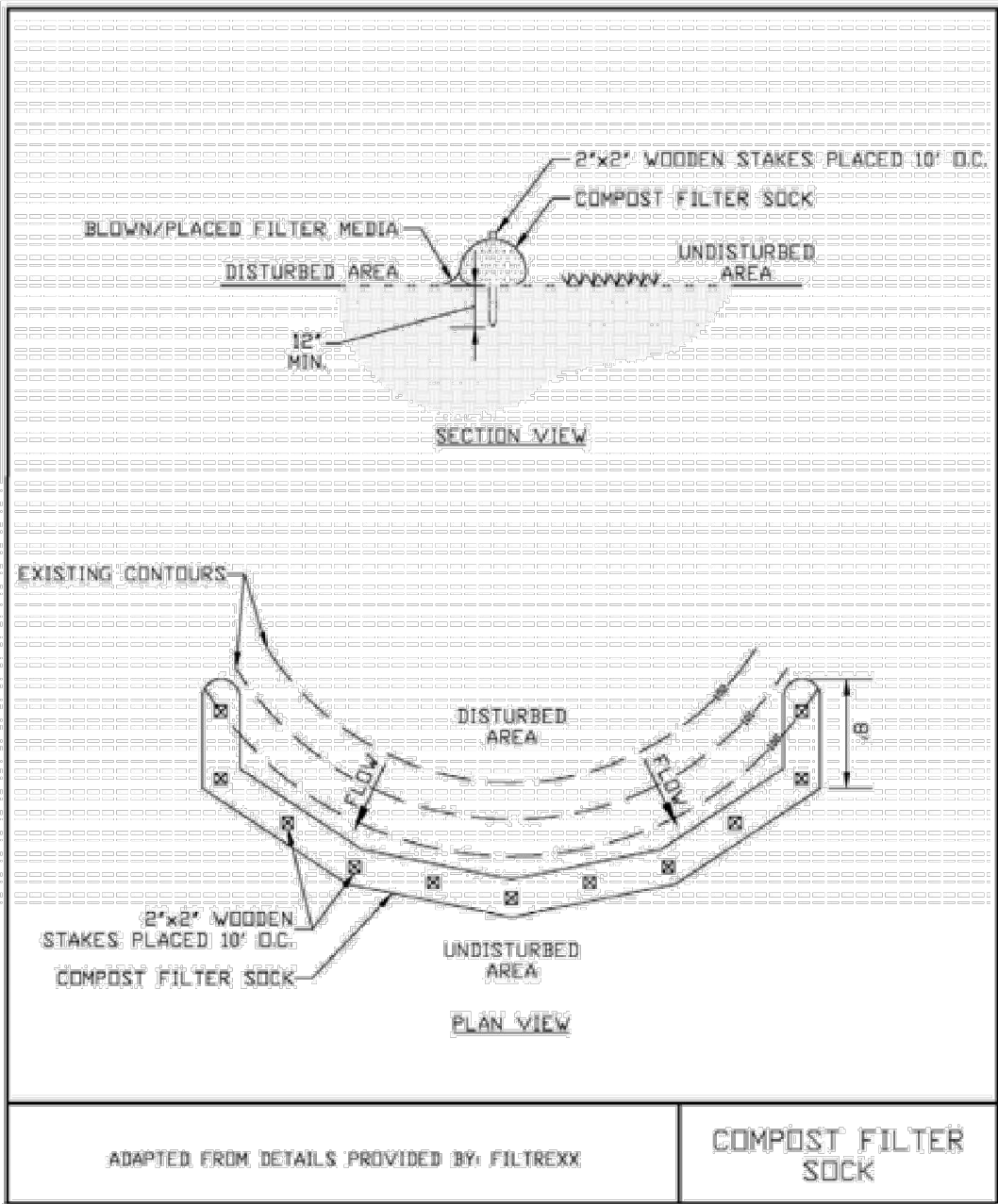


Figure 5.30
Reinforced Silt Fence

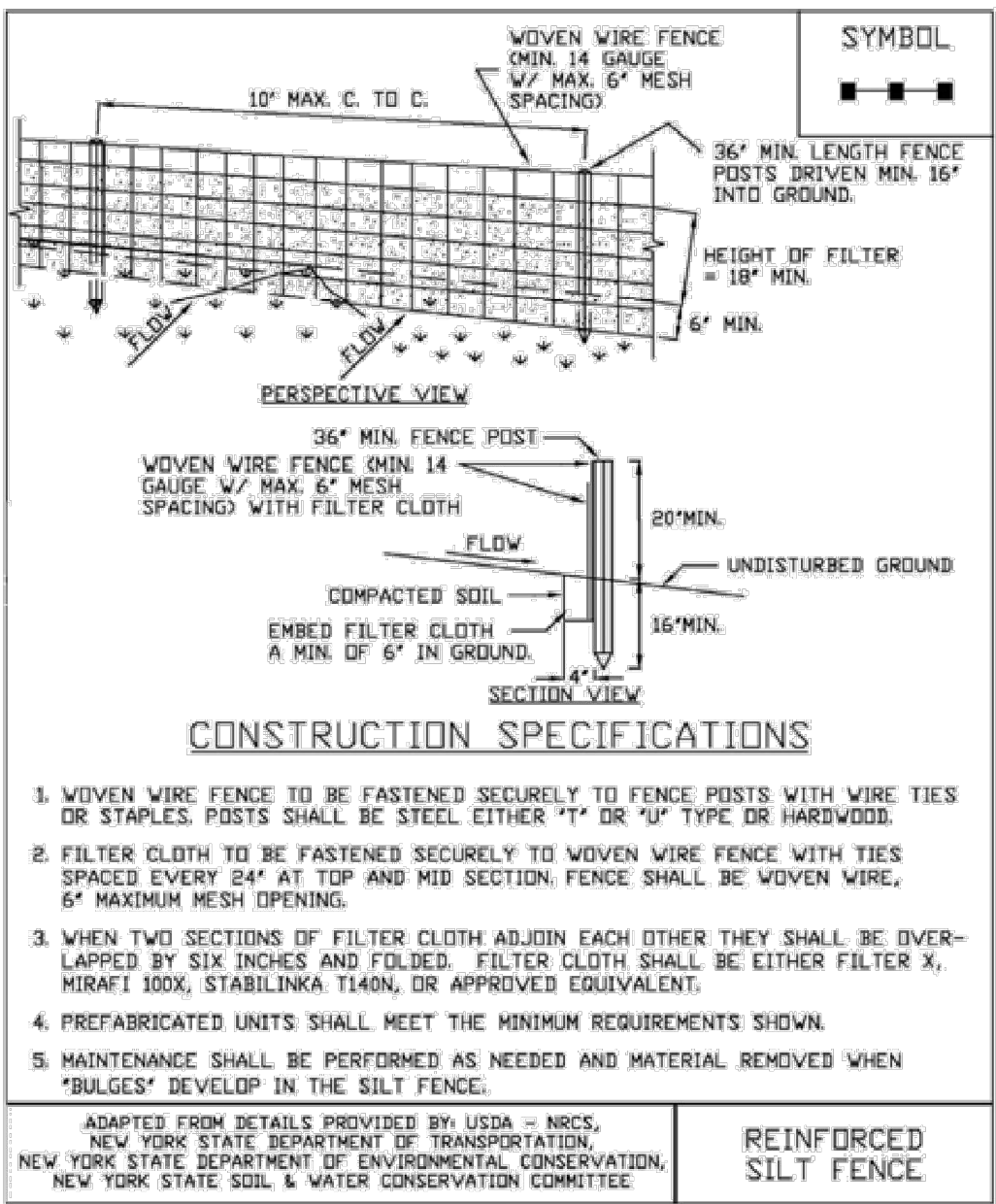
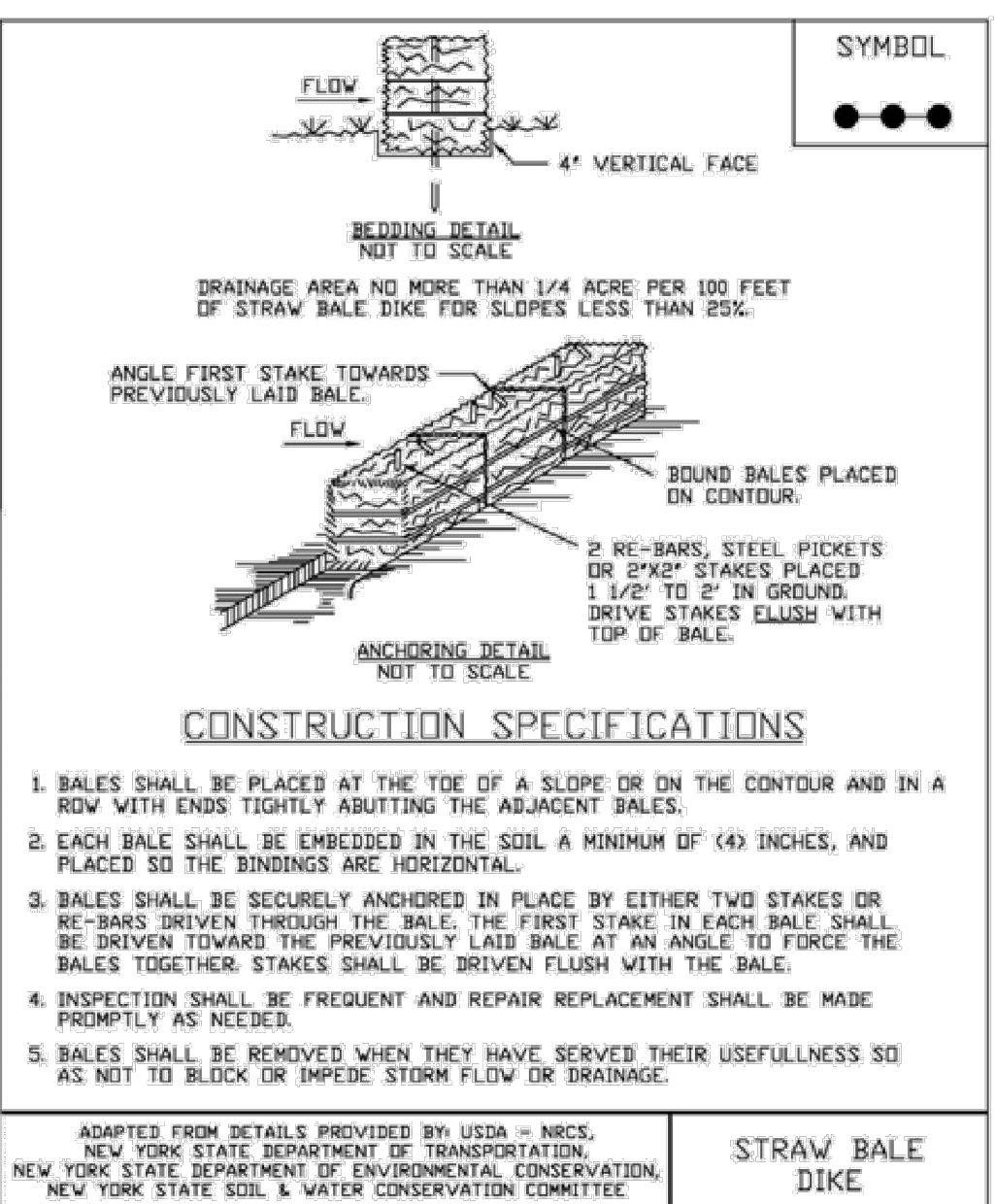


Figure 5.34
Straw Bale Dike



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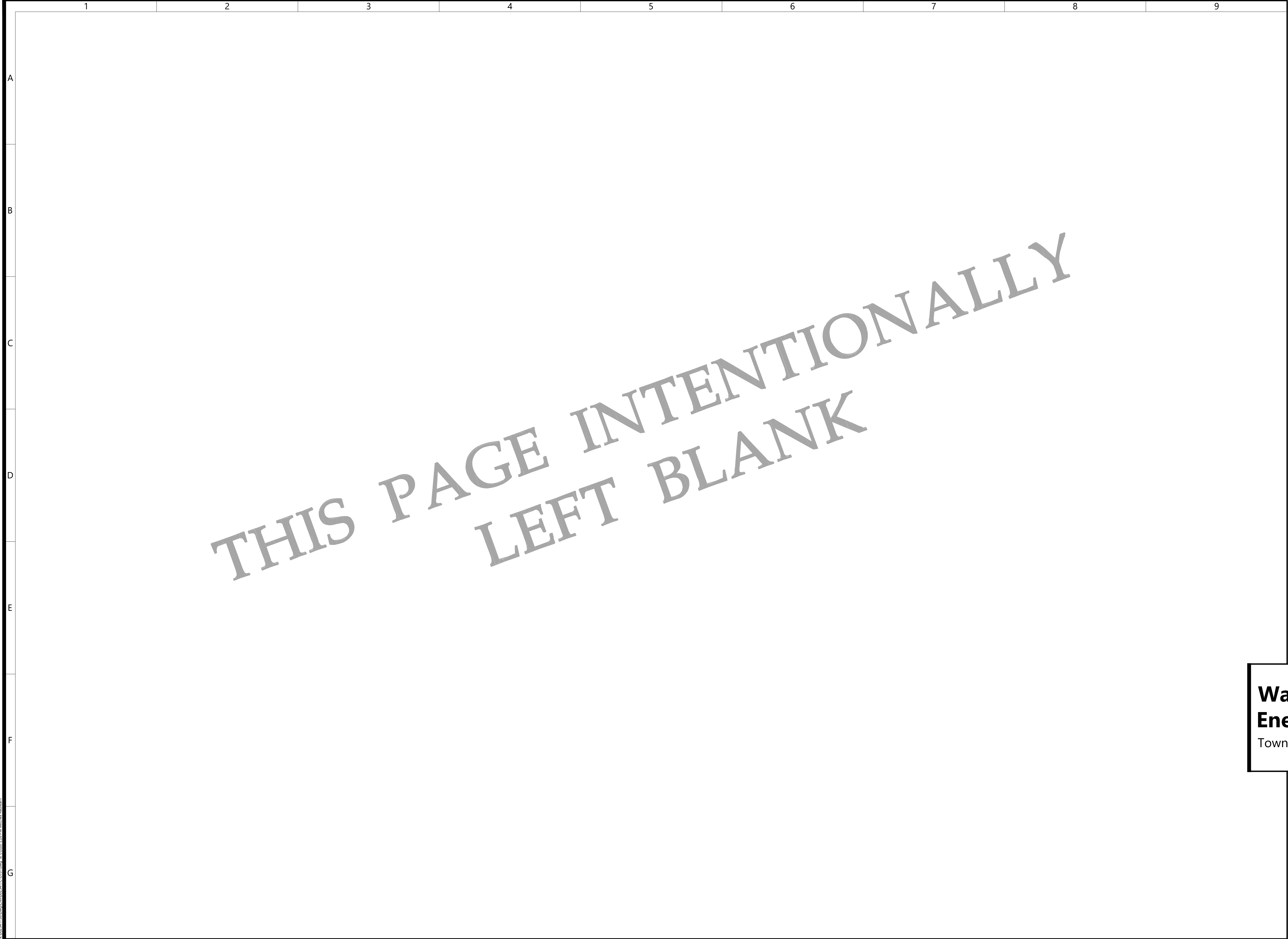
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Tree Clearing Notes

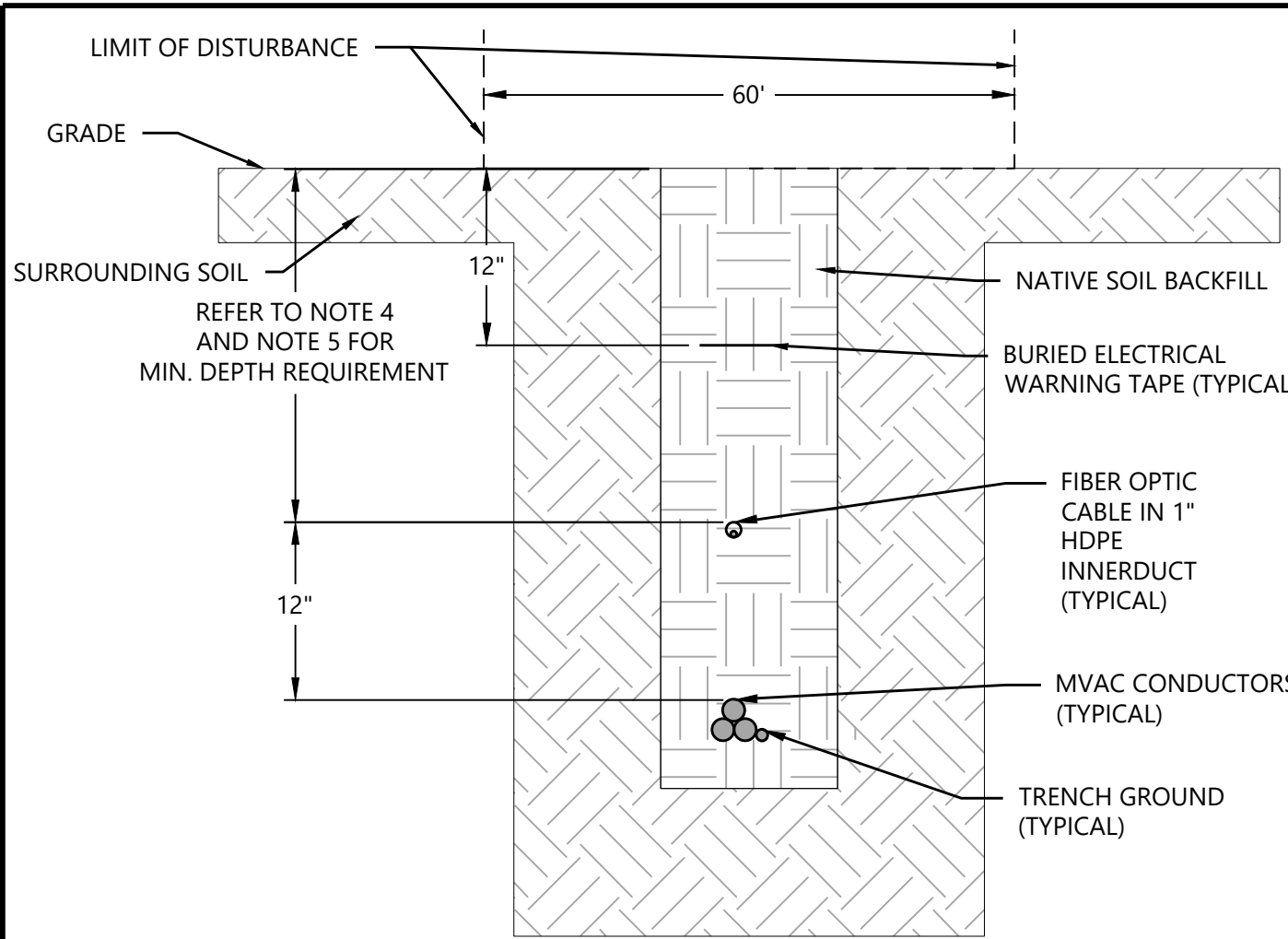
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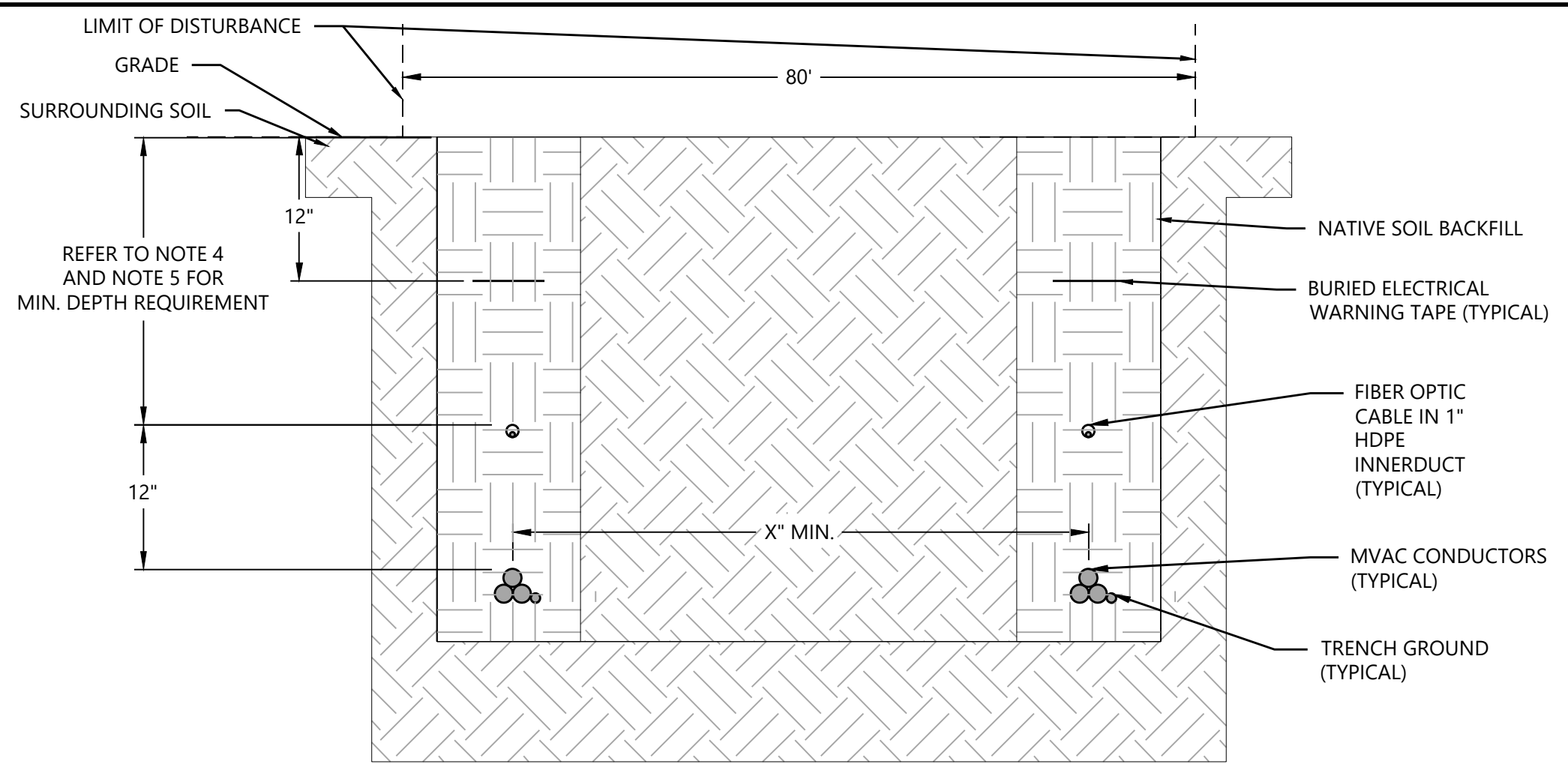
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Westwood	TYPICAL MVAC OPEN TRENCH (NTS)	TD01
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Westwood	TYPICAL 2 PARALLEL MVAC OPEN TRENCH (NTS)	TD02
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- NOTES:
- TRENCHES AND BACKFILL SHALL BE FREE OF ROCK, STUMPS, LARGE ROOTS OR ANY OTHER MATERIAL LARGER THAN 3/8" IN DIAMETER THAT CAN CAUSE DAMAGE TO CABLE JACKETS OR INSULATION.
 - TYPICAL MVAC TRENCHES SHALL BE MINIMUM 2.5' AWAY FROM PILES. TRENCHES THAT ARE WITHIN 2.5' OF PILES SHALL BE COMPACTED TO 95%.
 - BACKFILL LIFTS SHALL NOT EXCEED 12".
 - ALL BURIED UTILITIES LOCATED WITHIN THE GENERATION FACILITY'S SECURITY FENCE MUST HAVE A MINIMUM DEPTH OF 36" IF DIRECT BURIED AND MINIMUM DEPTH OF 18" IF BURIED IN A CONDUIT.
 - ALL BURIED UTILITIES LOCATED OUTSIDE OF THE GENERATION FACILITY SECURITY FENCE:
(a) IN CROPLAND, HAYLAND, AND IMPROVED PASTURE BURIED ELECTRIC CONDUCTORS MUST HAVE A MINIMUM DEPTH OF 48" OF COVER, IN AREAS WHERE THE DEPTH OF SOIL BEDROCK IS LESS THAN 48", THE ELECTRIC CONDUCTORS MUST BE BURIED BELOW THE SURFACE OF THE BEDROCK IF FRIABLE/RIPPABLE, OR AS NEAR AS POSSIBLE TO THE SURFACE OF THE BEDROCK.
(b) IN UNIMPROVED GRAZING AREAS OR ON LAND PERMANENTLY DEVOTED TO PASTURE THE MINIMUM DEPTH OF COVER MUST BE 36".
(c) WHERE ELECTRICAL CONDUCTORS ARE BURIED DIRECTLY BELOW THE GENERATION FACILITY'S ACCESS ROAD OR IMMEDIATELY ADJACENT (AT ROAD EDGE) TO THE ACCESS ROAD, THE MINIMUM DEPTH OF COVER MUST BE 36" IF DIRECT BURIED AND 24" IF BURIED IN CONDUIT. CONDUCTORS MUST BE CLOSED ENOUGH TO THE ROAD EDGE AS TO BE NOT SUBJECT TO AGRICULTURAL CULTIVATION/SUB-SOILING.
 - WHEN OPEN-CUT TRENCHING IS PROPOSED, TOPSOIL STRIPPING IS REQUIRED FROM THE WORK AREA ADJACENT TO THE TRENCH (INCLUDING SEGREGATED STOCKPILE AREAS AND EQUIPMENT ACCESS). TRENCHER OR ROAD SAW LIKE EQUIPMENT ARE NOT ALLOWED FOR TRENCH EXCAVATION IN AGRICULTURAL AREAS, AS THE EQUIPMENT DOES NOT SEGREGATE TOPSOIL FROM SUBSOIL. HORIZONTAL DIRECTIONAL DRILLING (HDD) OR EQUIVALENT INSTALLATION THAT DOES NOT DISRUPT THE SOIL PROFILE, MAY LIMIT AGRICULTURAL GROUND DISTURBANCES. ANY HDD DRILLING FLUID INADVERTENTLY DISCHARGED MUST BE REMOVED FROM AGRICULTURAL AREAS. NARROW OPEN TRENCHES LESS THAN 25 FEET LONG INVOLVING A SINGLE DIRECTLY BURIED CONDUCTOR OR CONDUIT (AS REQUIRED) TO CONNECT SHORT ROWS WITHIN THE ARRAY, ARE EXEMPT FROM TOPSOIL SEGREGATION.
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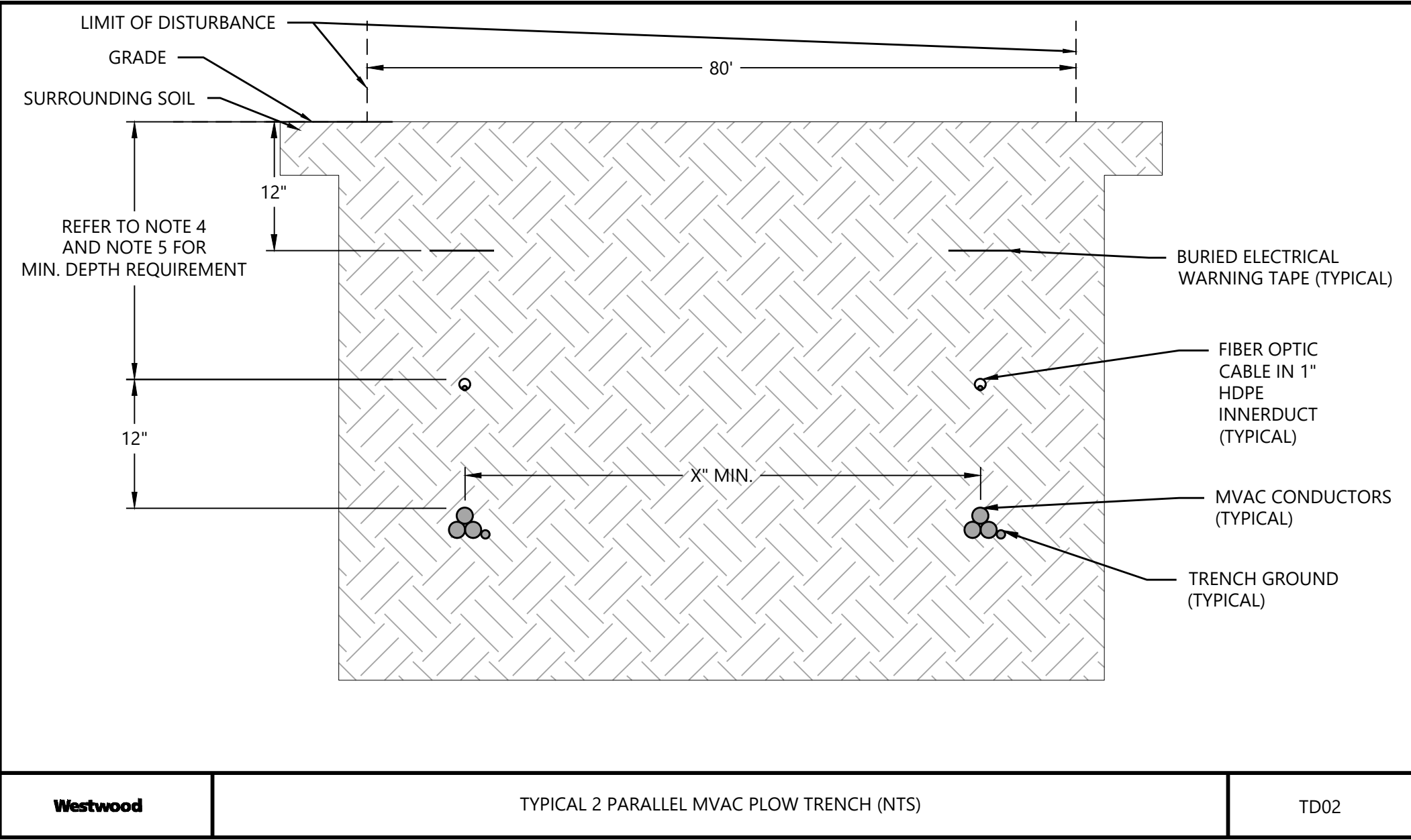
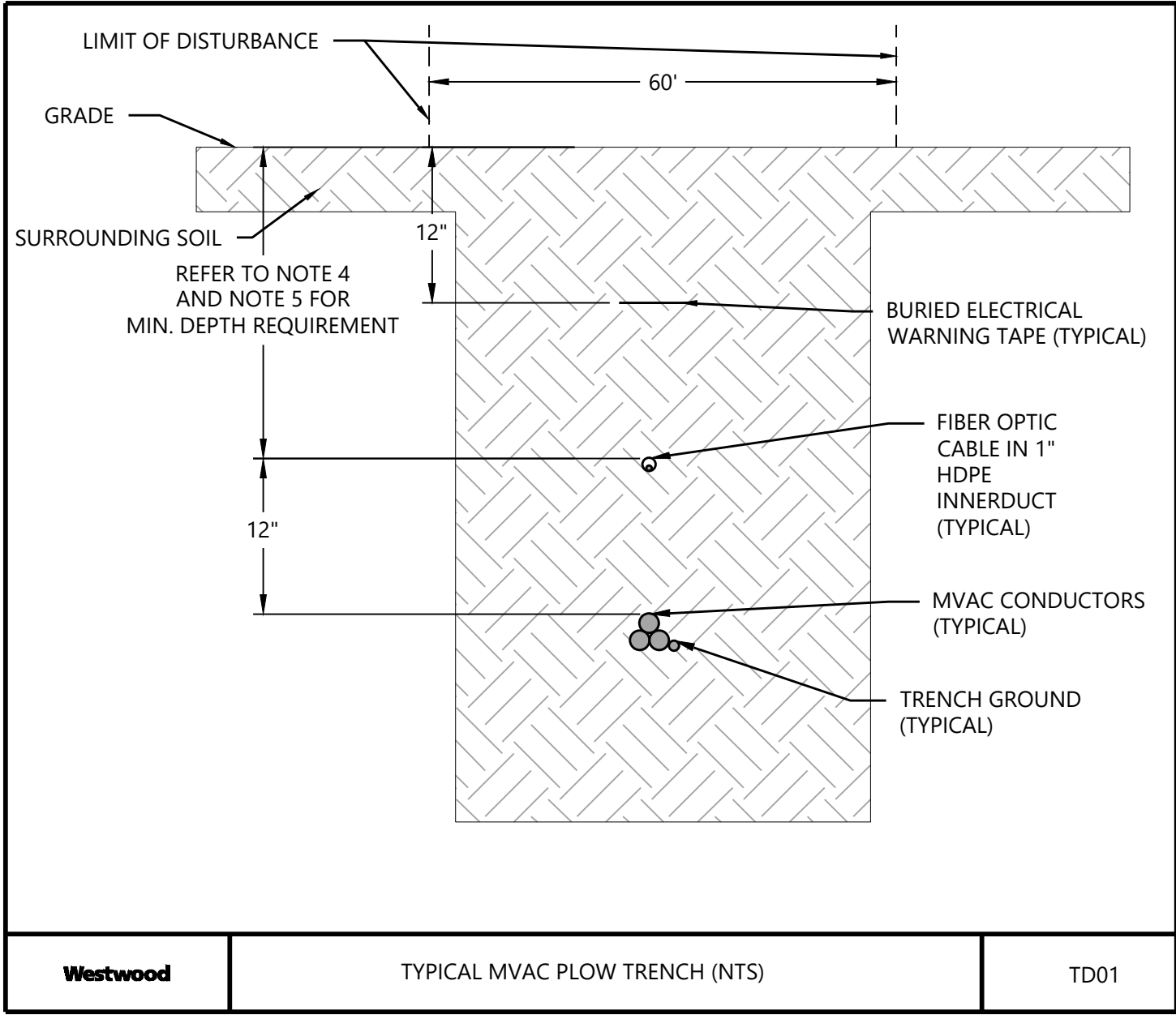
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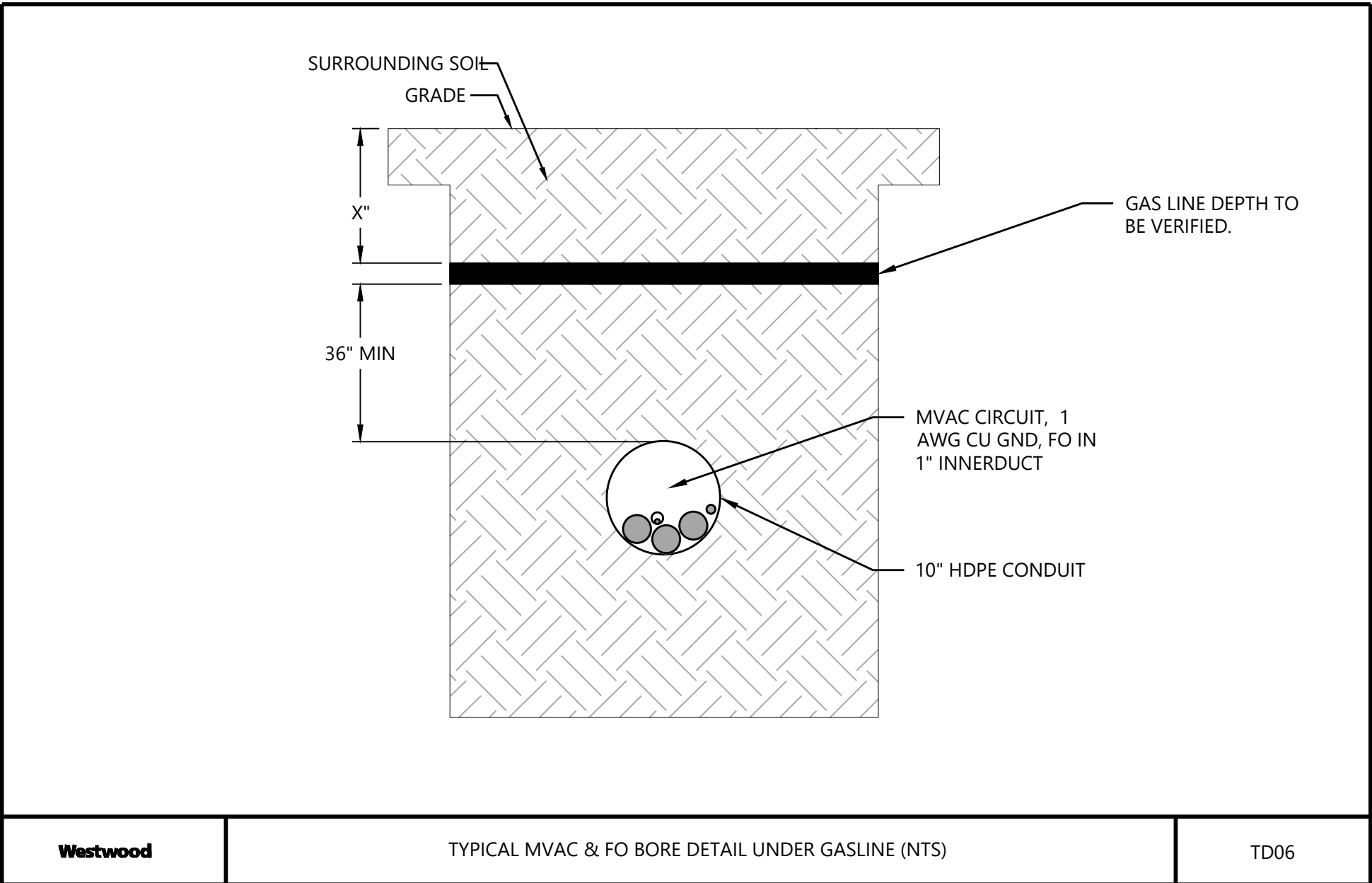
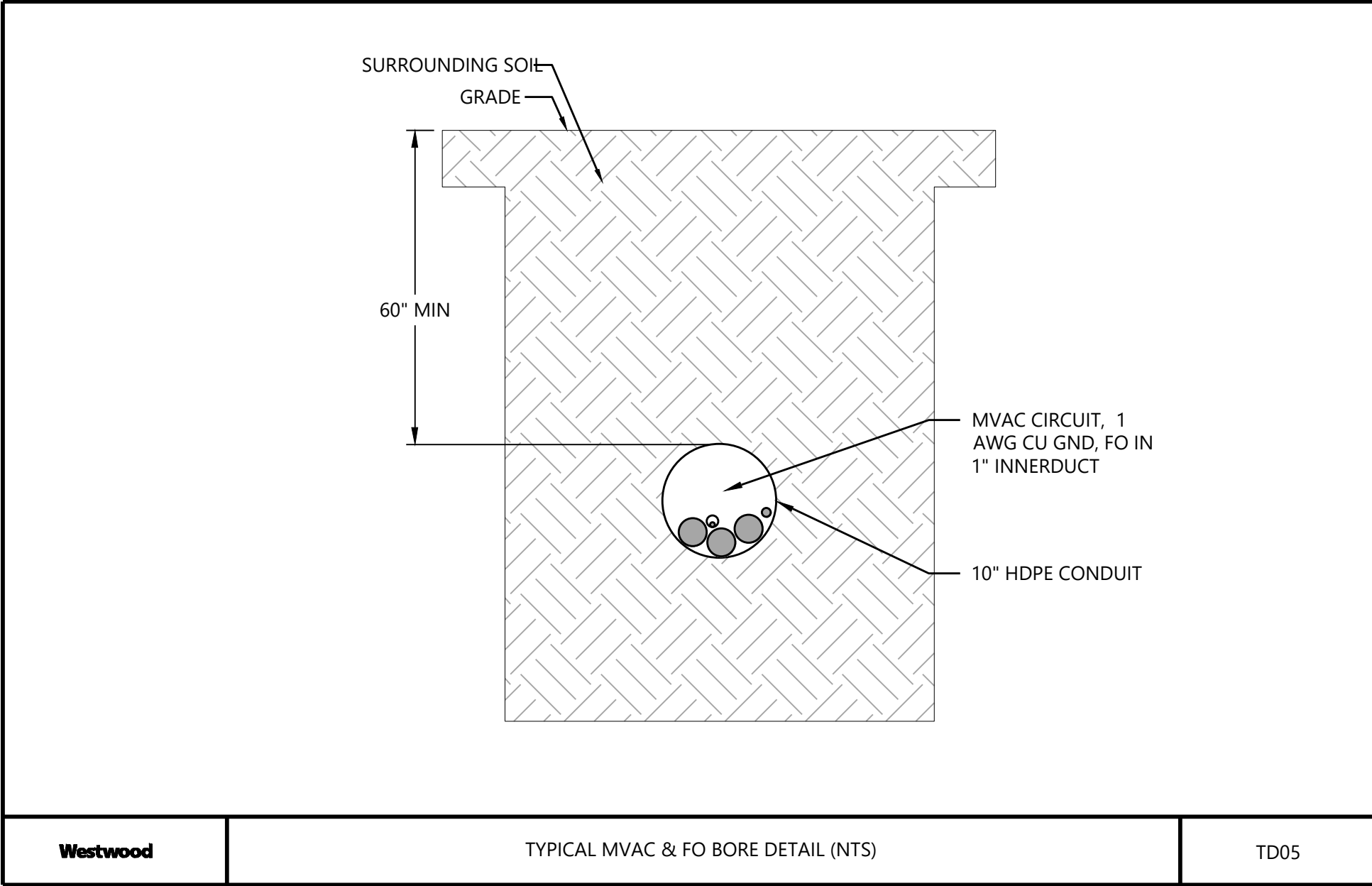
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- NOTES:
1. VERIFY UTILITY LOCATIONS AND REQUIRED CLEARANCE.
 2. VERIFY REQUIRED BORE DEPTH.
 3. TRANSITION STATION, GRADE, AND RADIUS MAY BE ADJUSTED IN FIELD WITH OWNERS APPROVAL.
 4. PRIOR TO THE START OF EXCAVATION, MARK-OUT THE PLANNED WORK AREA AND NOTIFY DIG-SAFE AND ANY NON-PARTICIPATING UTILITIES OF THE PLANNED WORK LOCATION.
 5. ALL UTILITIES IN THE VICINITY OF EACH CROSSING SHALL BE PHYSICALLY LOCATED BY TEST PITTING, BELL HOLING, OR OTHER SUITABLE APPROVED MEANS. MECHANICAL EXCAVATION EQUIPMENT (BACKHOES AND SIMILAR POWER EQUIPMENT) SHALL NOT BE USED FOR TEST PITTING OR BELL HOLING. THE ACTUAL LOCATION AND ELEVATION OF THE EXISTING UTILITY SHALL BE RECORDED AND GEO-REFERENCED. GEO-REFERENCED POSITION/ELEVATION SHALL BE TO SUB-FOOT ACCURACY.

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