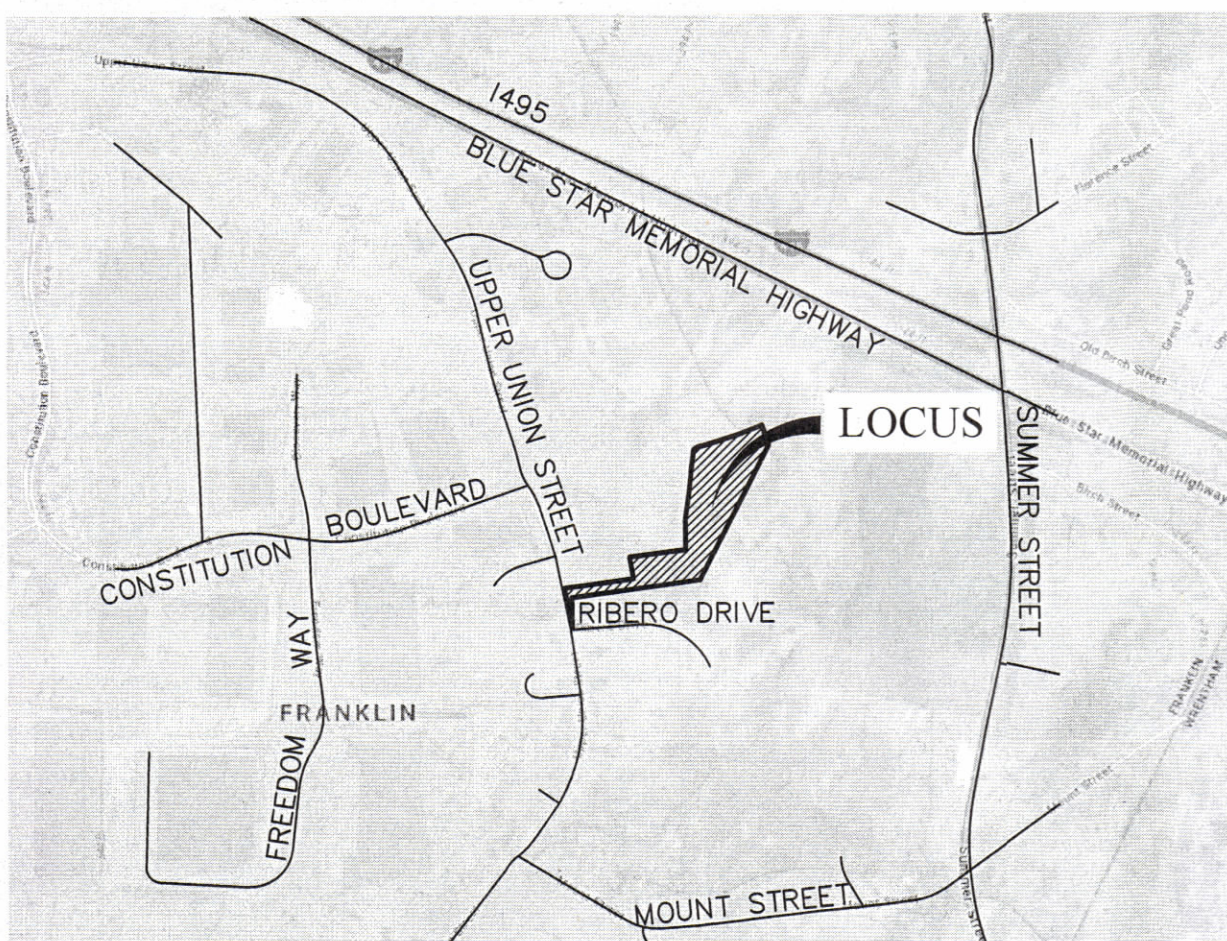


SITE DEVELOPMENT PLANS FOR UPPER UNION SOLAR PROJECT

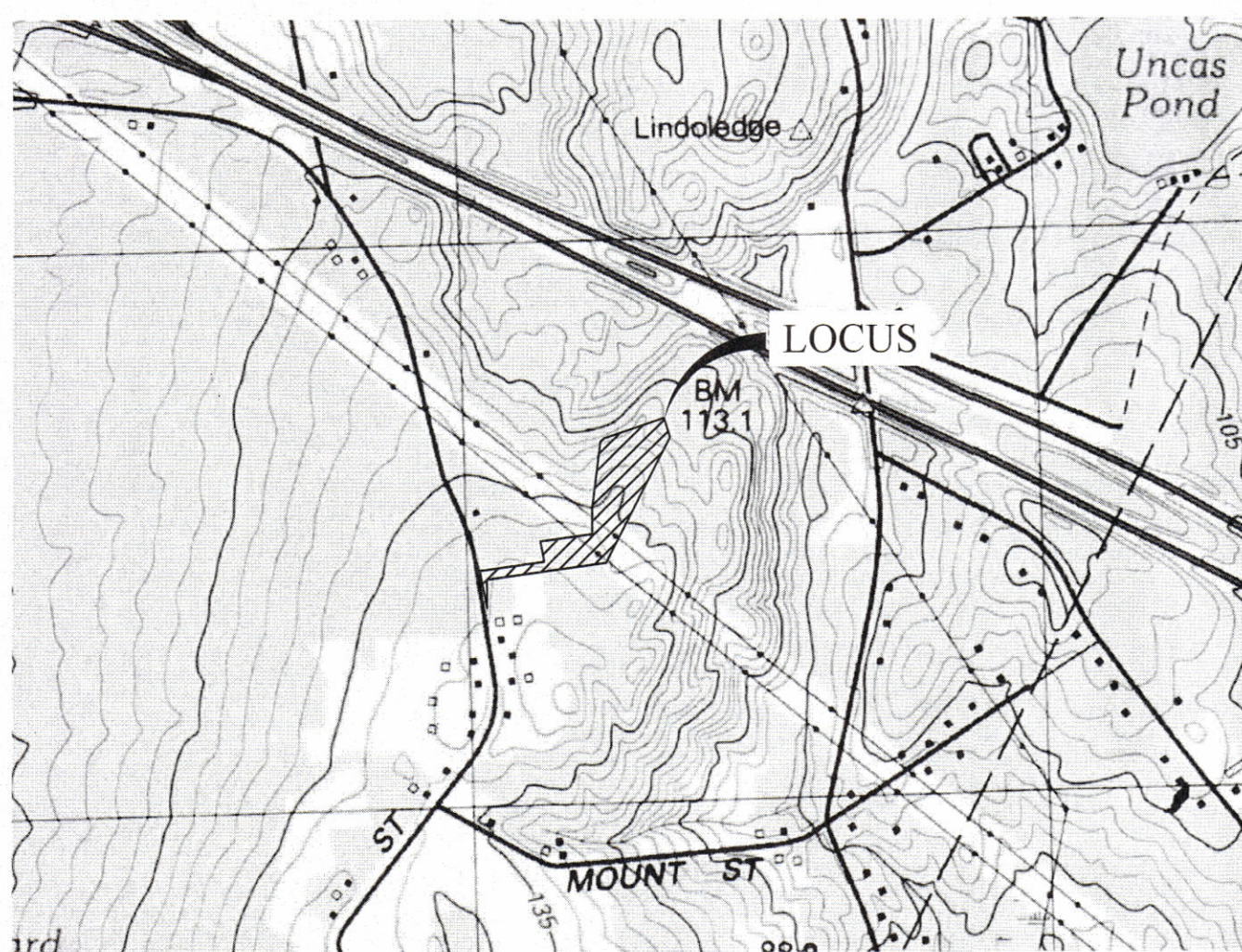
FRANKLIN, MASSACHUSETTS 02038

DATE: JUNE 19, 2023

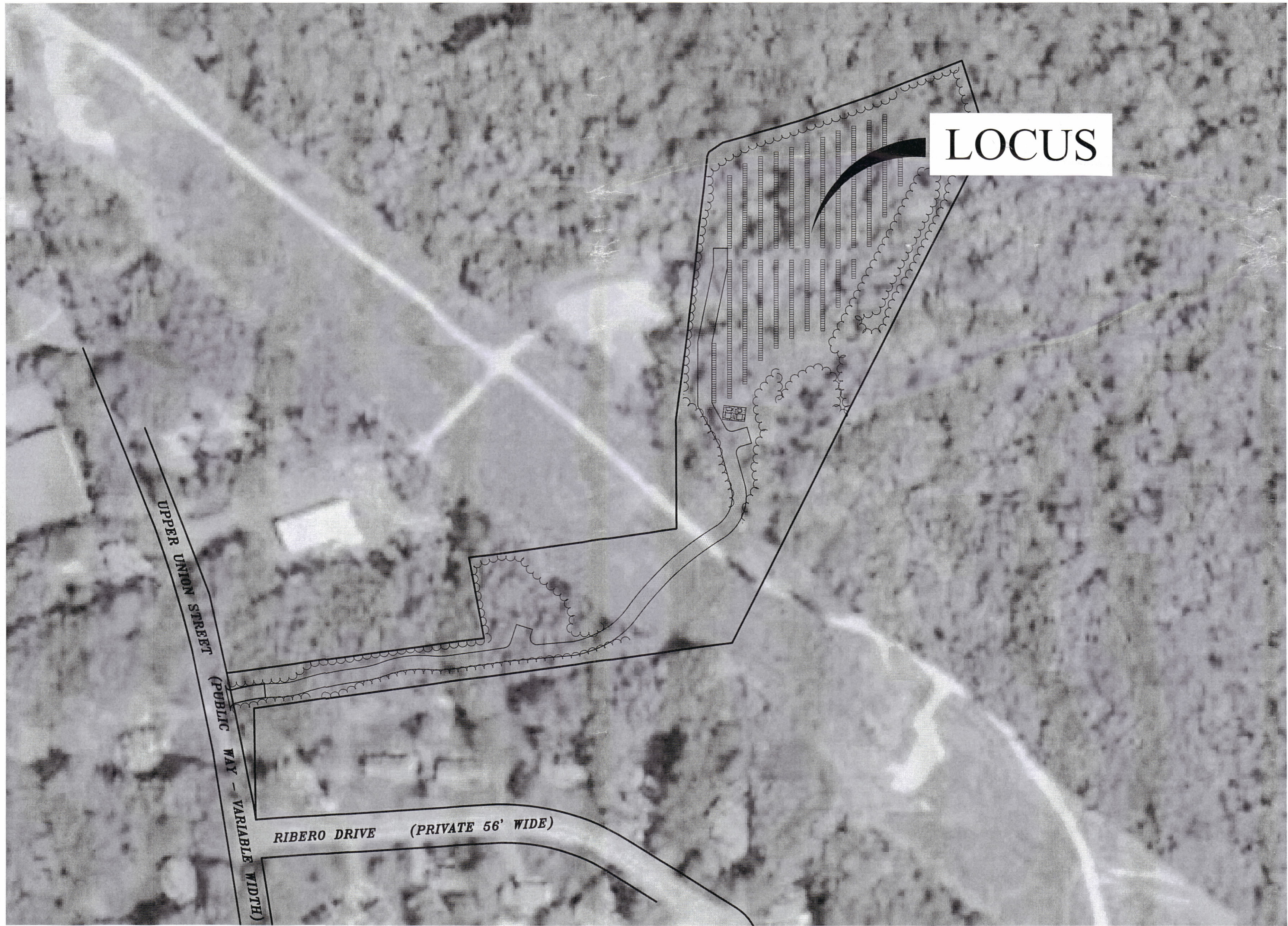
REVISION DATE: NOVEMBER 10, 2023



VICINITY MAP
1" = 1,000'



LOCUS MAP
1" = 1,000'



OVERALL LOCATION PLAN
SCALE: 1" = 100'

INDEX OF PLANS		
SHEET NO.	TITLE	SCALE
1	COVER SHEET	1" = 100'
2	OVERALL EXISTING CONDITIONS PLAN	1" = 60'
3	EXISTING CONDITIONS PLAN	1" = 30'
4	EXISTING CONDITIONS PLAN	1" = 30'
5	OVERALL SITE DEVELOPMENT PLAN	1" = 60'
6	SITE DEVELOPMENT PLAN	1" = 30'
7	SITE DEVELOPMENT PLAN	1" = 30'
8	DETAILS PLAN	N.T.S.
9	DETAILS PLAN	N.T.S.
10	DETAILS PLAN	N.T.S.

OWNER:

JOHN C. COLELLA SR.
0 UPPER UNION STREET
FRANKLIN MA, 02038

APPLICANT:

VS UNION SOLAR SMART, LLC
24942 DANA POINT HARBOR
DANA POINT, CA 92629

ENGINEER:

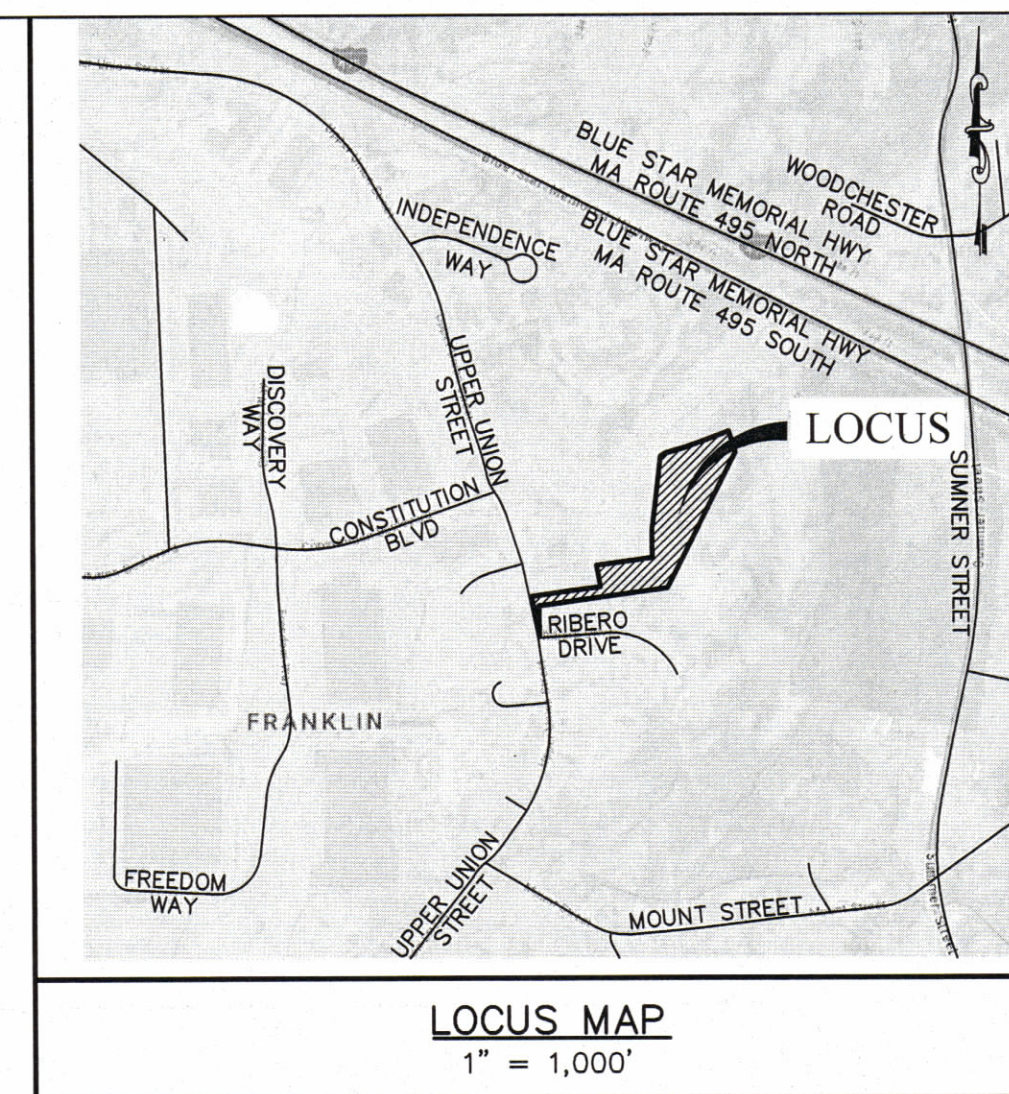
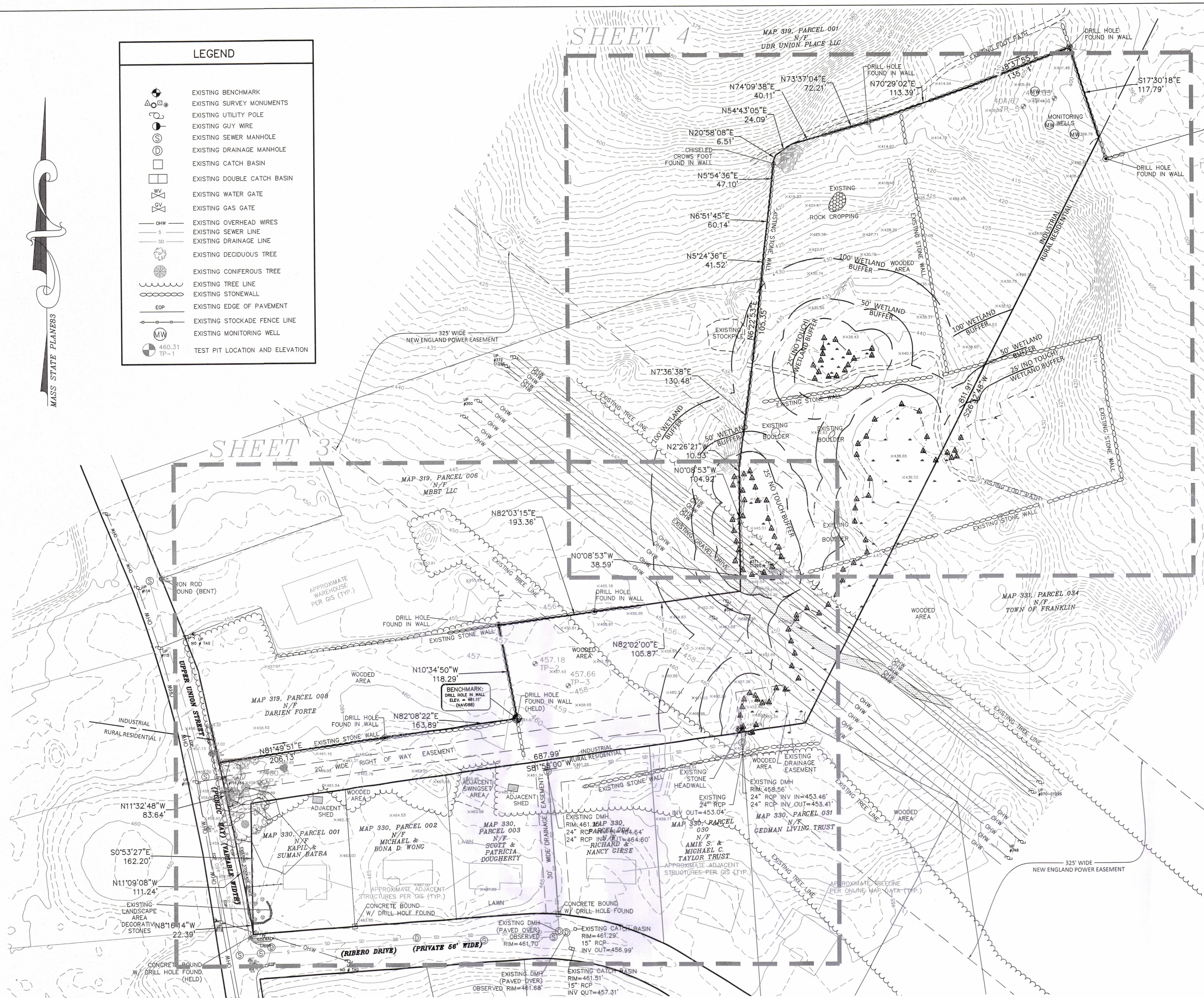
Atlantic[®]
DESIGN ENGINEERS, INC.
P.O. Box 1051, Sandwich, MA 02563
PHONE NUMBER: (508) 888-9282

FILE: 3328-DETAIL-REV1

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1	10
JOB NUMBER	
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MASS STATE PLANS 83

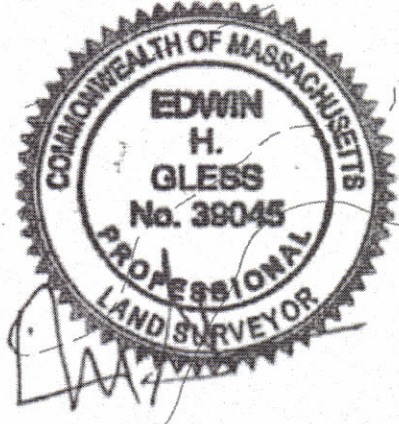
LEGEND	
	EXISTING BENCHMARK
	EXISTING SURVEY MONUMENTS
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING SEWER MANHOLE
	EXISTING DRAINAGE MANHOLE
	EXISTING CATCH BASIN
	EXISTING DOUBLE CATCH BASIN
	EXISTING WATER GATE
	EXISTING GAS GATE
	EXISTING OVERHEAD WIRES
	EXISTING SEWER LINE
	EXISTING DRAINAGE LINE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING TREE LINE
	EXISTING STONEWALL
	EXISTING EDGE OF PAVEMENT
	EXISTING STOCKADE FENCE LINE
	EXISTING MONITORING WELL
	TEST PIT LOCATION AND ELEVATION



GENERAL NOTES:

- RECORD OWNER(S) PER NORFOLK COUNTY REGISTRY OF DEEDS BOOK 31678 PAGE 107:
MAP 319, PARCEL 009 (O UPPER UNION STREET)
JOHN C. COLELLA JR.
FRANKLIN, MA 02038
AREA = ±6.21 ACRES
- THE SUBJECT PROPERTY IS SHOWN AS PARCEL 009 ON THE TOWN OF FRANKLIN ASSESSOR'S MAP 319. TOTAL LAND AREA IS ±6.21 ACRES.
- THE PROPERTY LIES WITHIN A INDUSTRIAL ZONING DISTRICT BASED UPON A REVIEW OF THE TOWN OF FRANKLIN ZONING MAP AND PROPERTY CARDS.
- THE LOCUS PROPERTY LINES SHOWN HEREON, ARE COMPILED FROM THE RECORD PLAN (PARCEL A-PLAN NUMBER 624 OF 1995 IN PLAN BOOK 433) AND DEED (BOOK 31678 PAGE 107) AND ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND ARE BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC.
- THE PROPERTY LIES WITHIN FLOOD ZONE X, AN AREA OF MINIMAL FLOODING, BASED UPON A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 25021C0317E, EFFECTIVE DATE JULY 17, 2012.
- THE LOCUS DOES NOT LIE WITHIN A ZONE II BASED UPON REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM AND THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM.
- THE LOCUS DOES NOT LIE WITHIN THE WATER RESERVE OVERLAY DISTRICT BASED UPON REVIEW OF THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM AND WATER RESERVE DISTRICT MAPS.
- THE SITE IS NOT LOCATED WITHIN AN ESTIMATED HABITAT OF RARE WILDLIFE OR A PRIORITY HABITAT OF RARE SPECIES BASED UPON A REVIEW OF THE NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM MAPS OBSERVED ON THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM.
- THE PROPERTY DOES NOT LIE WITHIN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC) BASED UPON A REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM.
- THE EXISTING CONDITIONS SHOWN HEREON ARE BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC. IN APRIL AND JUNE OF 2023 AND SUPPLEMENTED BY INFORMATION OBTAINED BY THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM, THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM, AND INFORMATION OBTAINED FROM PUBLIC RECORDS.
- THE WETLAND RESOURCE AREAS SHOWN HEREON ARE BASED UPON WETLAND DELINEATIONS COMPLETED BY GODDARD CONSULTING LLC IN APRIL AND SEPTEMBER 2023. WETLAND FLAGS WERE GPS LOCATED BY ATLANTIC DESIGN ENGINEERS ON APRIL 19, 2023 AND OCTOBER 2, 2023.



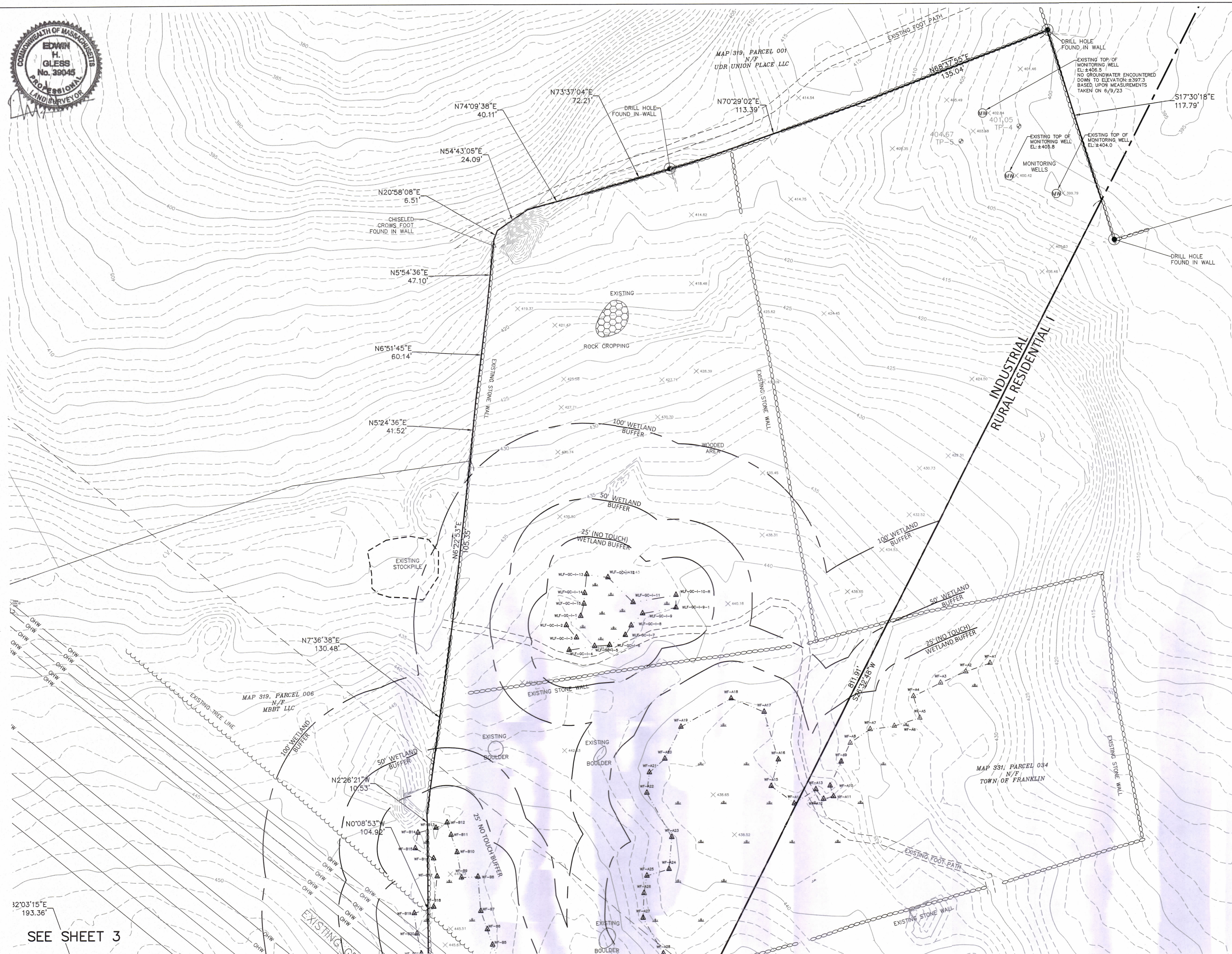
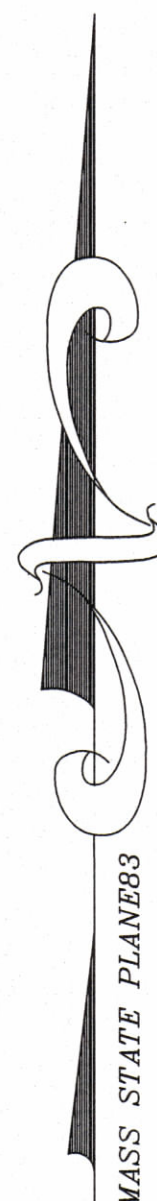
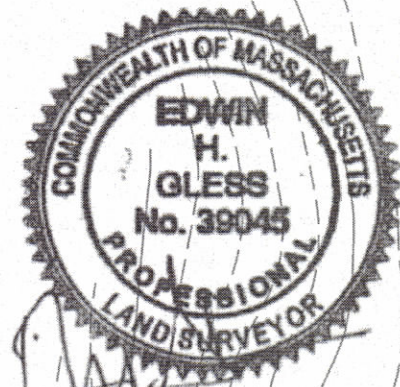


SEE SHEET 4

MASS STATE PLANS



SEE SHEET 2 FOR
OVERALL EXISTING
CONDITIONS, LEGEND
AND GENERAL NOTES



SEE SHEET 2 FOR
OVERALL EXISTING
CONDITIONS, LEGEND
AND GENERAL NOTES

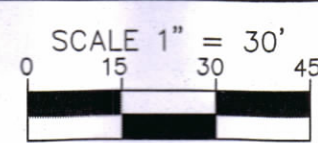
SEE SHEET 3



DESIGN ENGINEERS, INC.
MA 02563 (508) 888 - 9282

Designed by : _____
 Drawn by : _____
 Checked by : _____
 Survey chk. by : _____
 Approved by : _____

SCALE



DATE _____

1	BJR	11/10/23	PEER REVIEW/TOWN COMMENTS
NO.	BY	DATE	REVISION

PREPARED FOR:
VS UNION SOLAR PROJECT, LLC
24941 DANA POINT HARBOR
DANA POINT, CA 92629

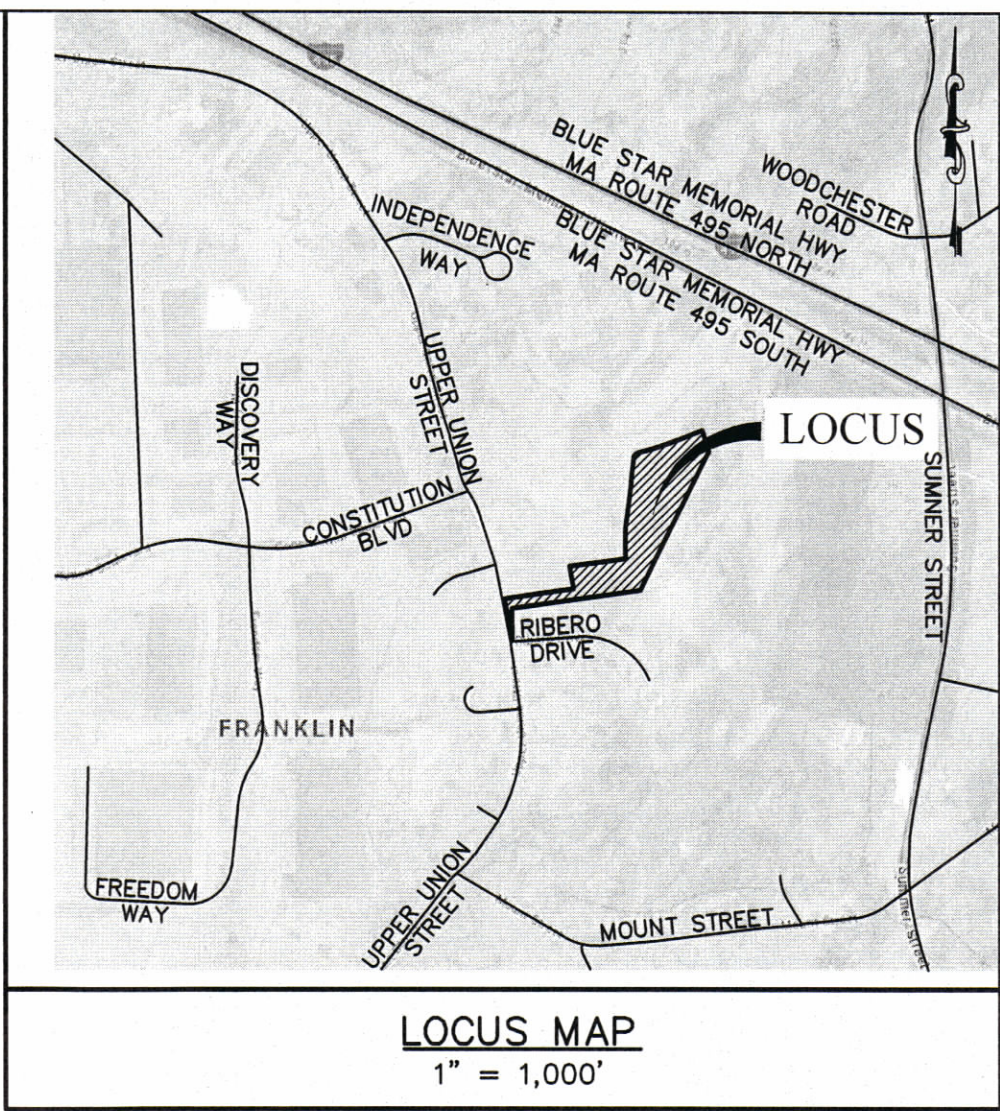
EXISTING CONDITIONS PLAN
FOR
UPPER UNION SOLAR PROJECT
FRANKLIN, MA
JUNE 19, 2023

FILE: 3328-FX-COND-REV

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JOB NUMBER	
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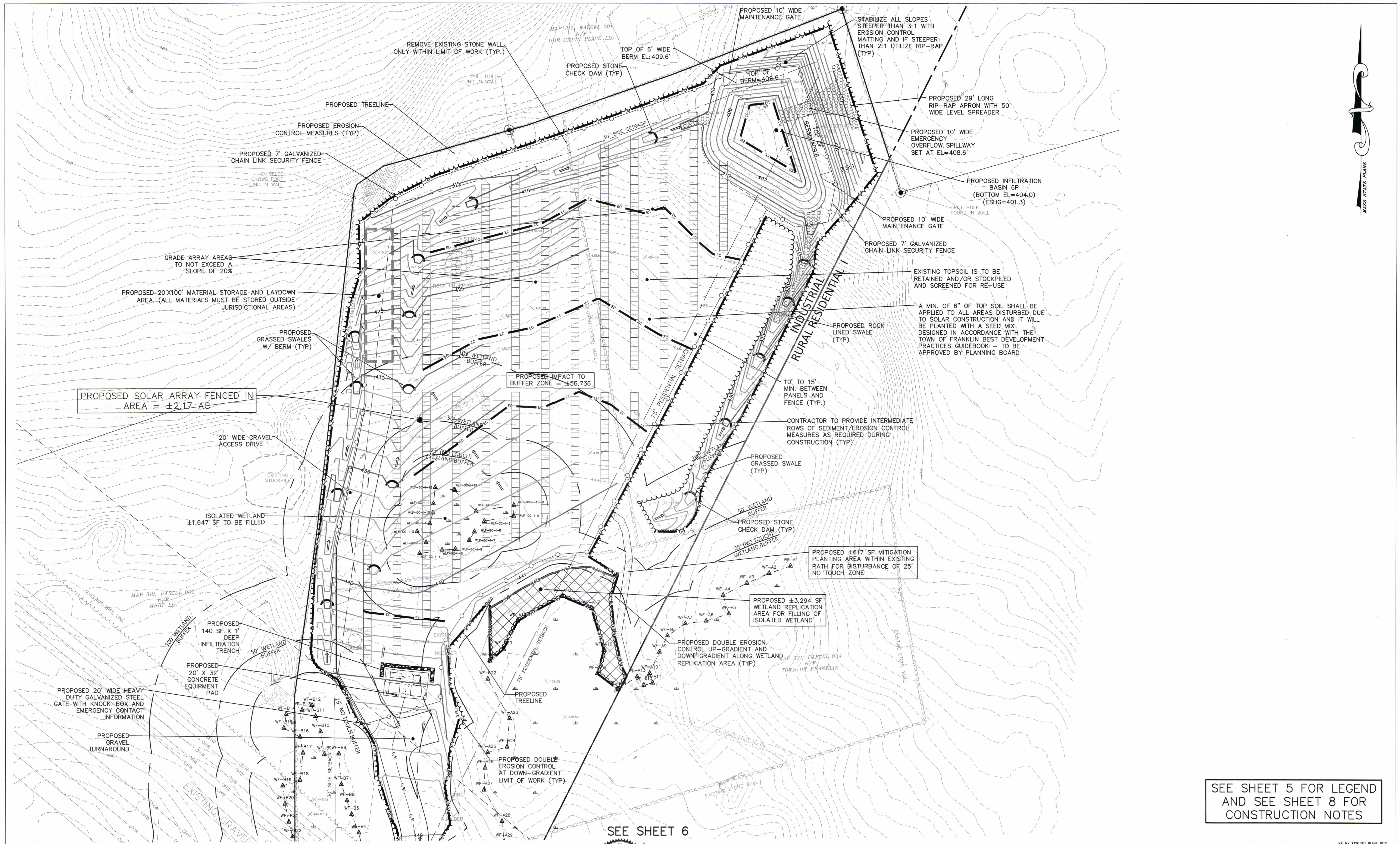
ZONING REQUIREMENTS		
TOWN OF FRANKLIN ZONING BYLAWS: JAN, 2021		
CHAPTER 185 ATTACHMENT 9 (INDUSTRIAL DISTRICT)		
	REQUIRED	PROVIDED
MINIMUM LOT SIZE	40,000 SF	±2,642,323 SF
MINIMUM LOT DIMENSIONS:		
FRONTAGE	175 FEET	±217.3 FEET
DEPTH	200 FEET	>200 FEET
WIDTH	157.5 FEET	N/A (LOT CREATED IN 1995)
MINIMUM YARD DIMENSIONS:		
FRONT YARD	30 FEET	794.0 FEET
SIDE YARD	30 FEET	31.2 FEET
REAR YARD	30 FEET	115.4 FEET
RESIDENTIAL SETBACK*	75 FEET*	75.6 FEET
MAXIMUM BUILDING HEIGHT	3 STORIES	N/A
MAXIMUM IMPERVIOUS COVERAGE:		
STRUCTURES	70%	N/A
STRUCTURES PLUS PAVING	80%	0.06%

* NO MEDIUM-SCALE OR LARGE-SCALE GROUND-MOUNTED SOLAR ENERGY SYSTEMS ON PARCELS WITHIN OR ADJACENT TO RESIDENTIAL ZONING DISTRICTS SHALL BE LOCATED NEARER TO THE LOT LINES THAN 75 FEET, PER (CHAPTER 185 ATTACHMENT 4)



LEGEND	
	EXISTING BENCHMARK
	EXISTING SURVEY MONUMENTS
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING SEWER MANHOLE
	EXISTING DRAINAGE MANHOLE
	EXISTING CATCH BASIN
	EXISTING DOUBLE CATCH BASIN
	EXISTING WATER GATE
	EXISTING GAS GATE
	EXISTING OVERHEAD WIRES
	EXISTING SEWER LINE
	EXISTING DRAINAGE LINE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING TREE LINE
	EXISTING STONEWALL
	EXISTING EDGE OF PAVEMENT
	EXISTING STOCKADE FENCE LINE
	EXISTING MONITORING WELL
	TEST PIT LOCATION AND ELEVATION
	PROPOSED TREELINE
	PROPOSED 1 FOOT CONTOUR
	PROPOSED 5 FOOT CONTOUR
	PROPOSED CHAIN LINK FENCE
	PROPOSED EROSION CONTROL BARRIER
	PROPOSED DOUBLE EROSION CONTROL
	PROPOSED OVERHEAD WIRES
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED UTILITY POLE
	PROPOSED DRAINAGE LINE
	PROPOSED FLARED END SECTION
	PROPOSED DRAINAGE FLOW ARROW
	PROPOSED RIP-RAP APRON/CHANNEL

SEE SHEET 8 FOR
CONSTRUCTION NOTES



PROPOSED SOLAR ARRAY FENCED IN
AREA = ±2.17 AC

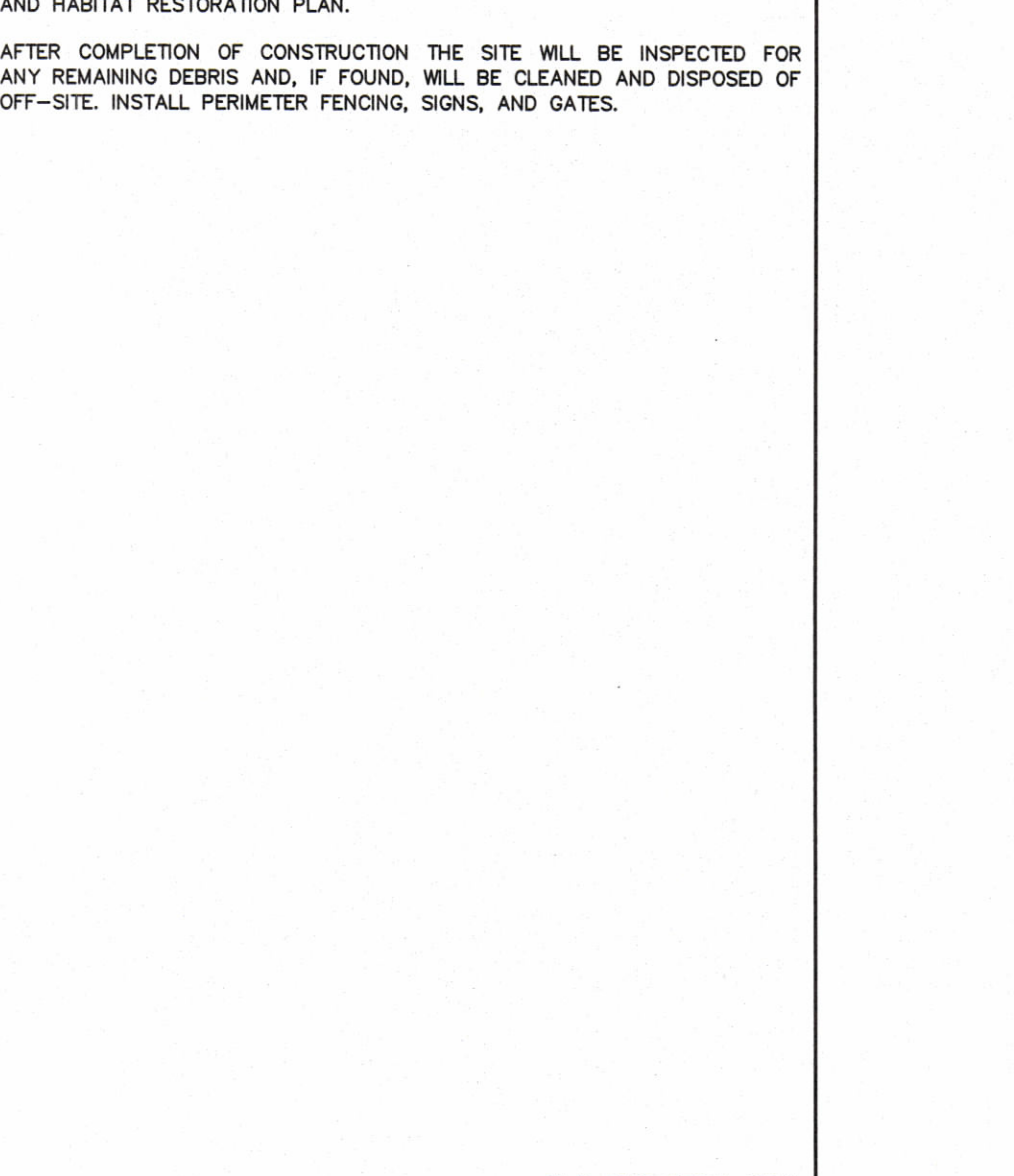
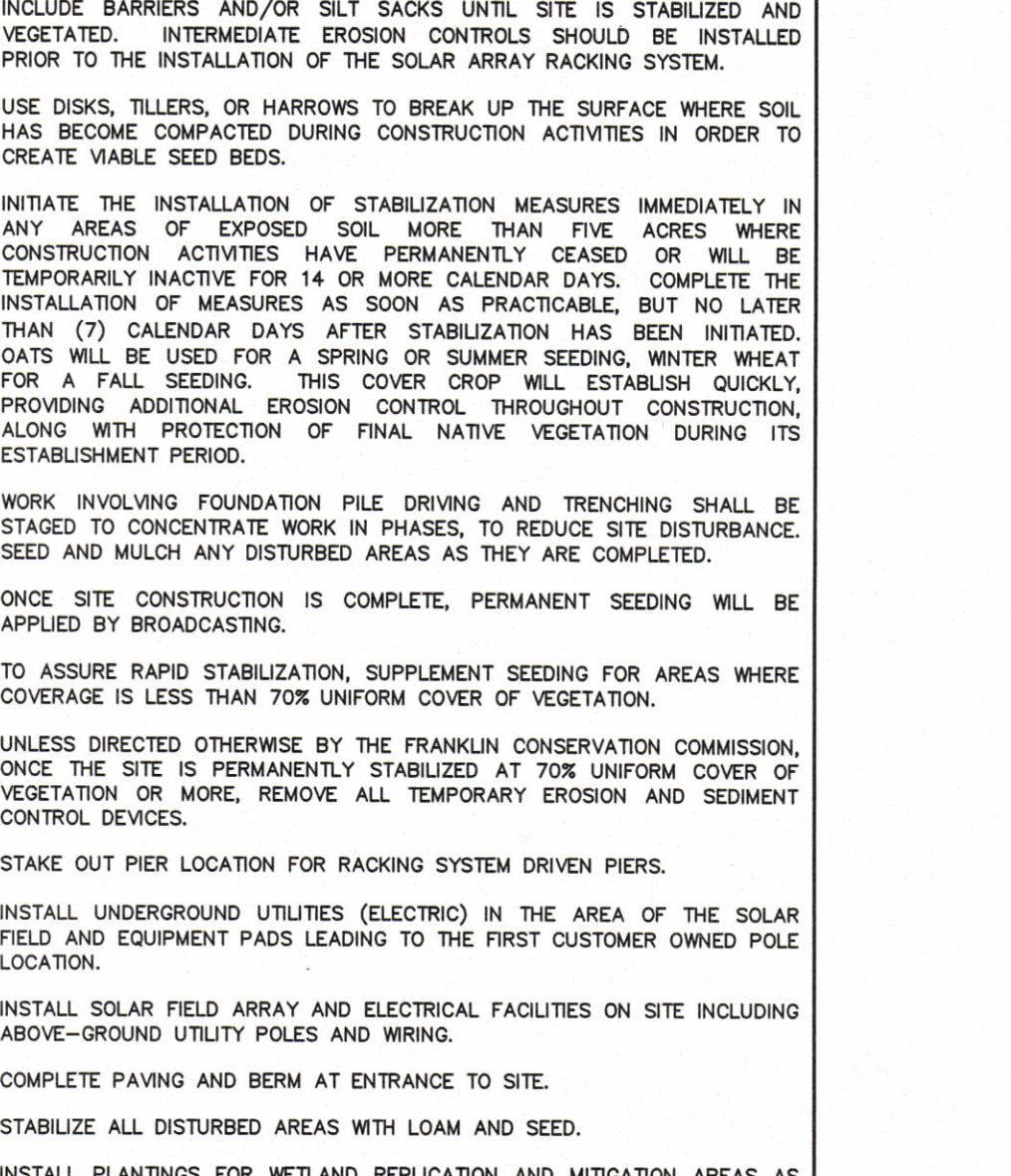
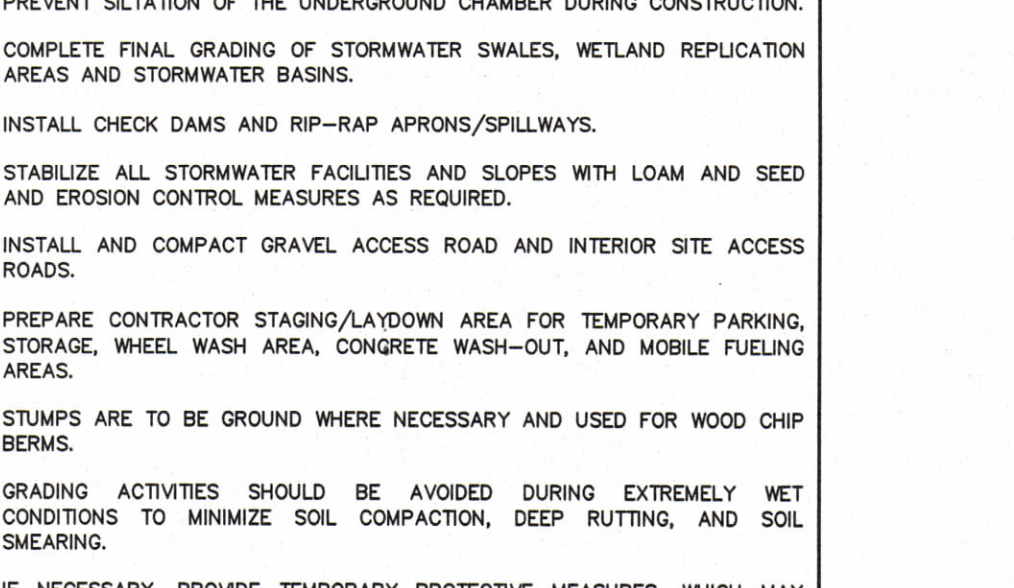
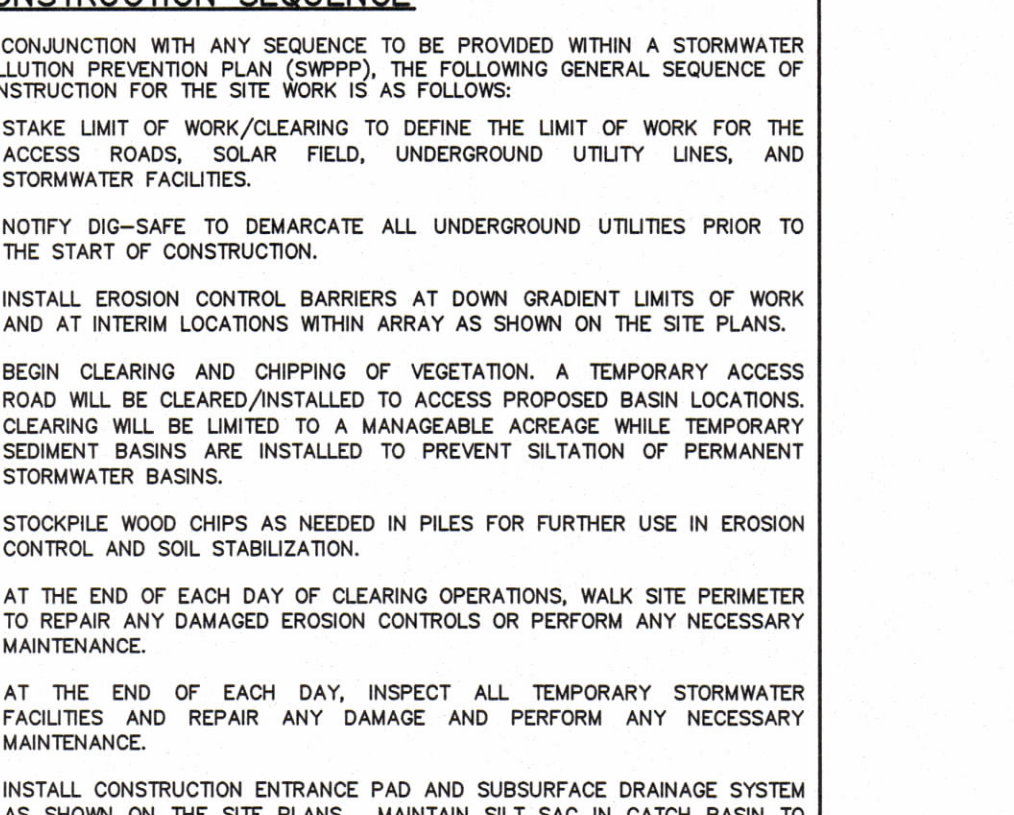
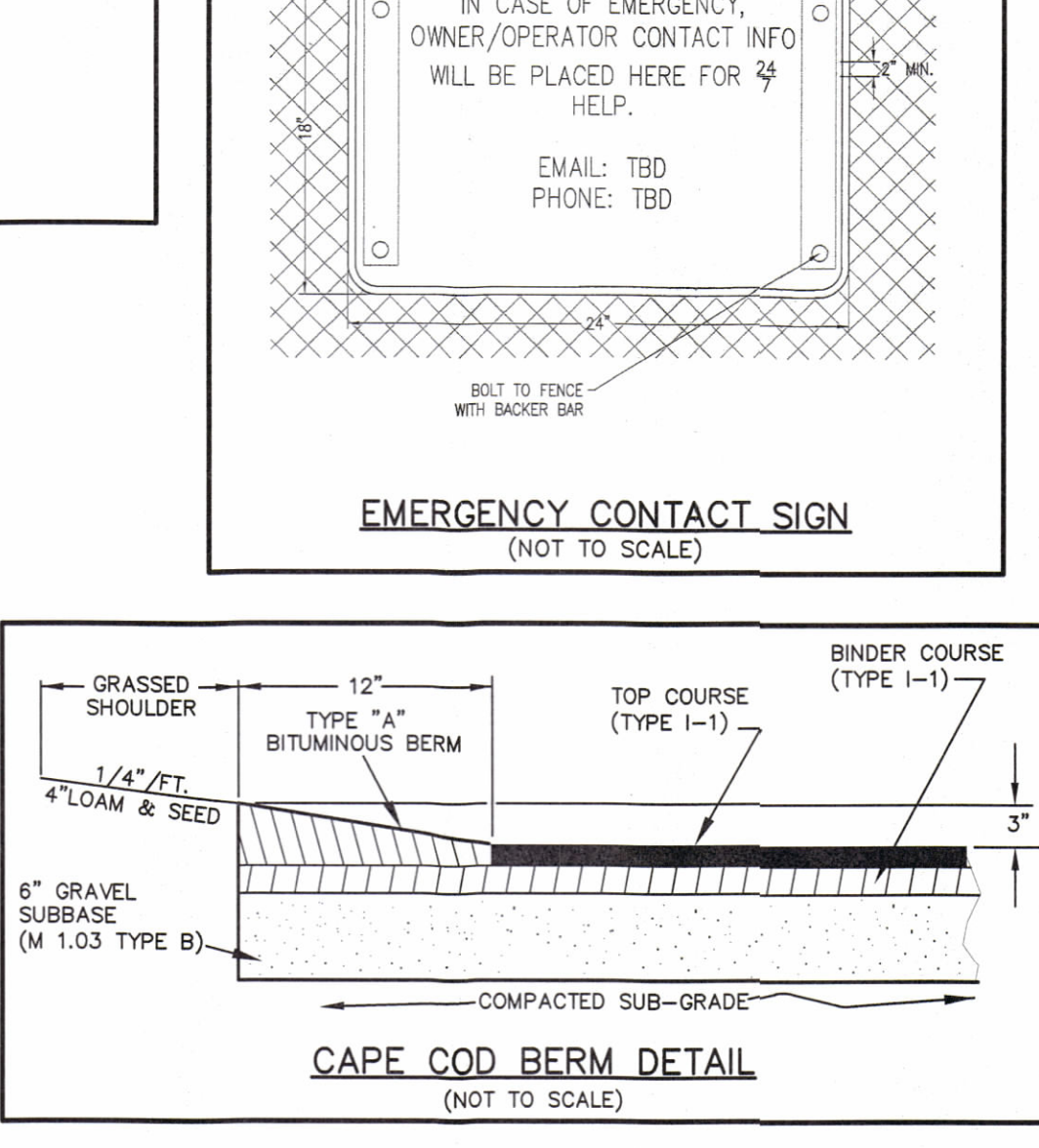
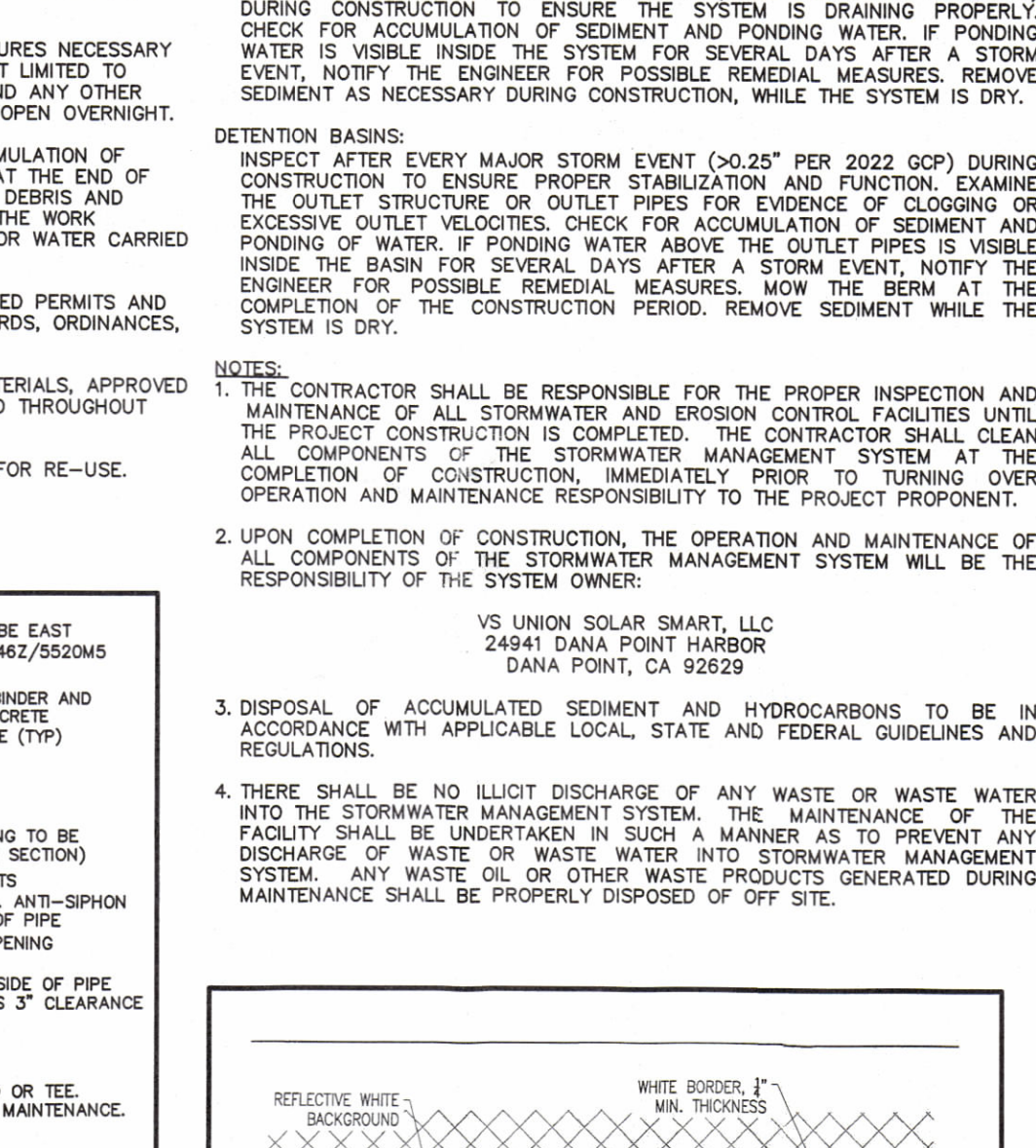
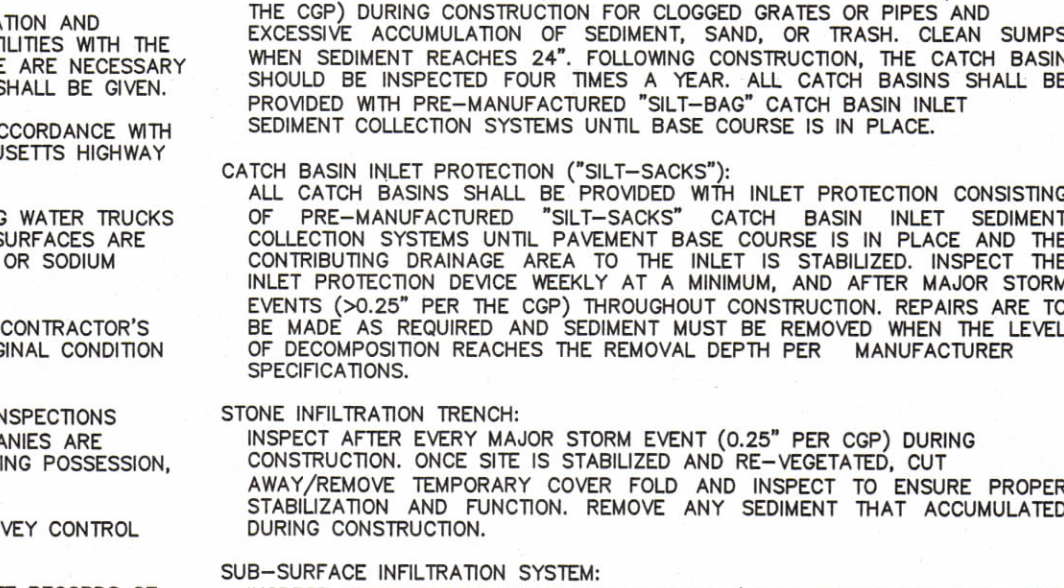
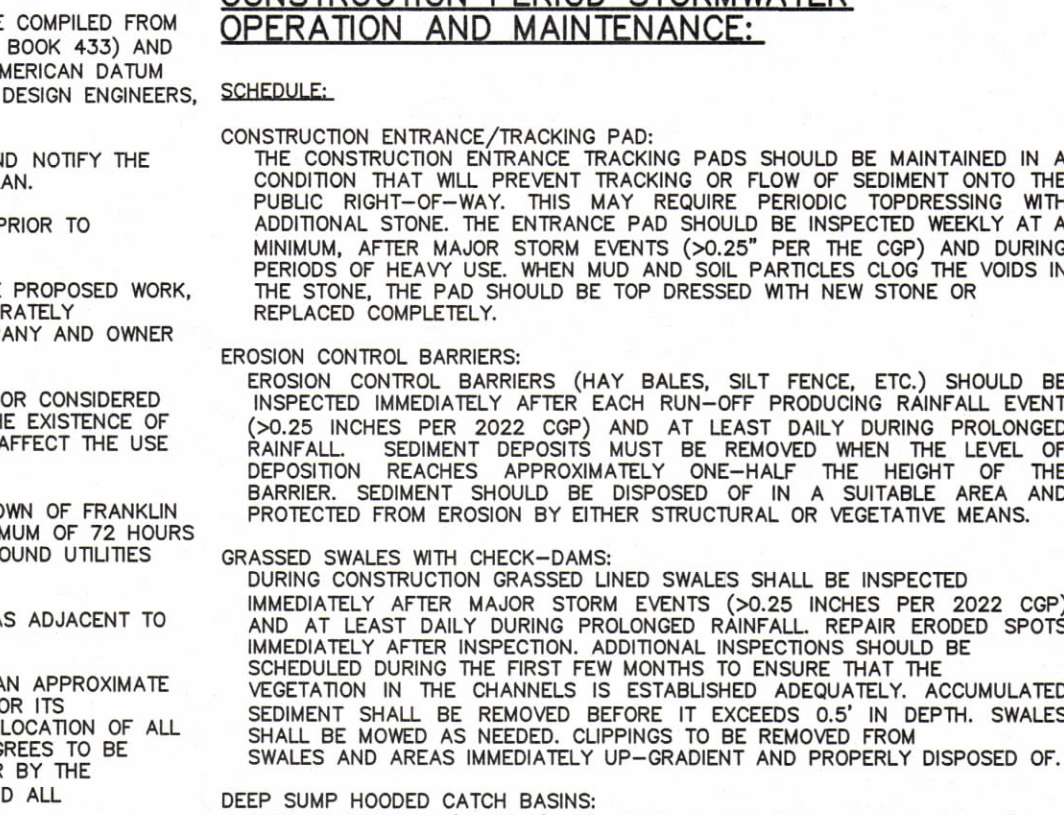
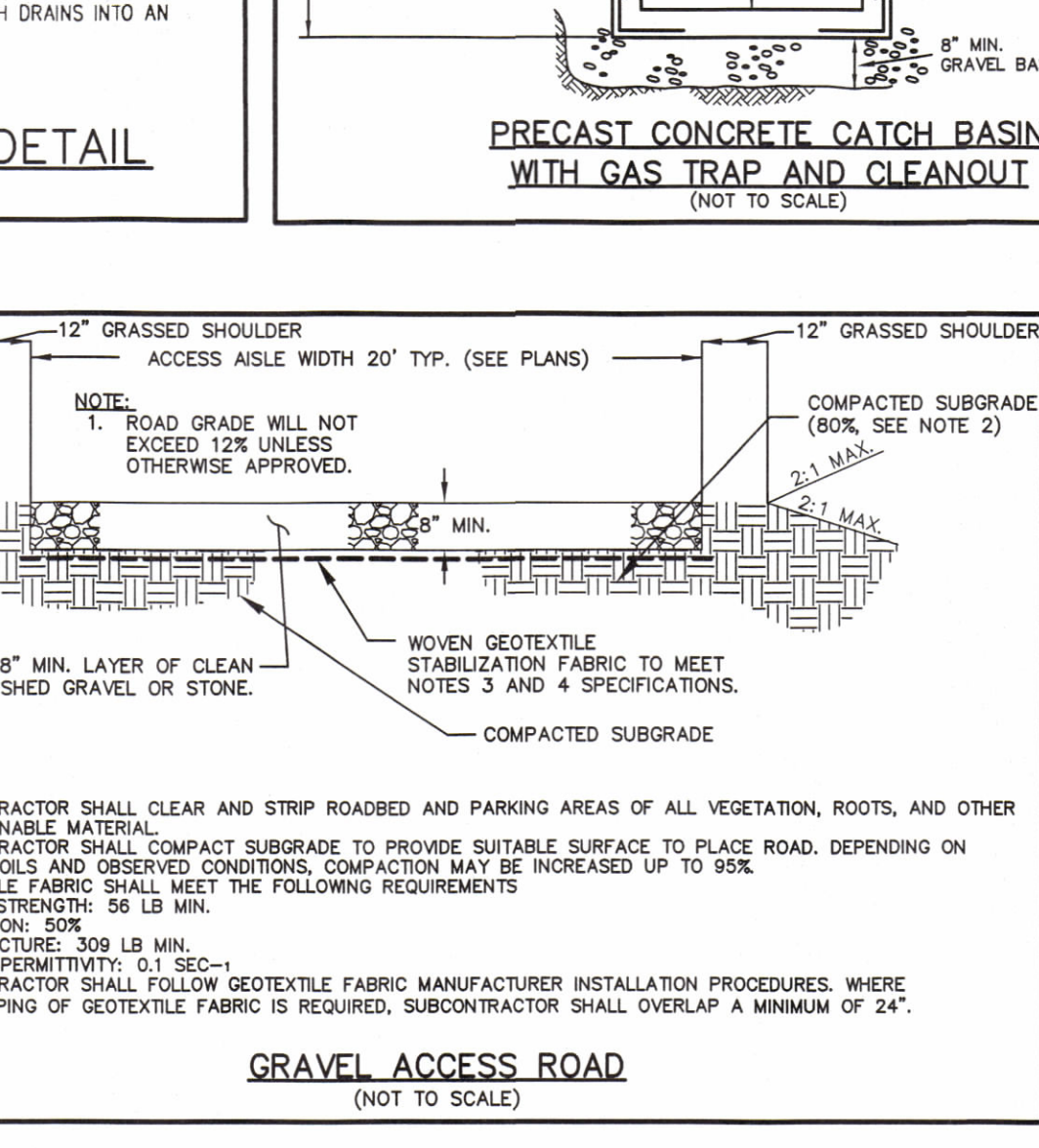
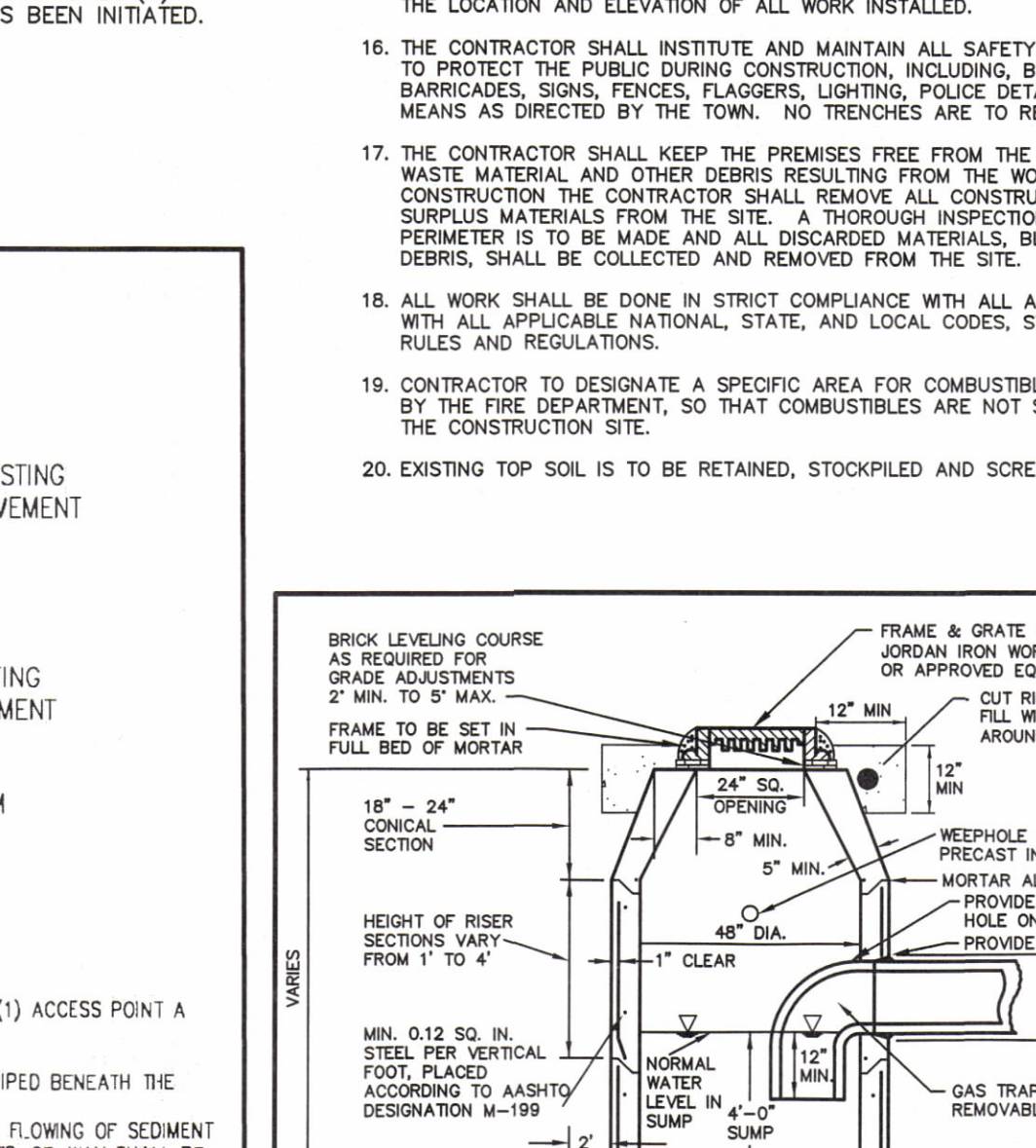
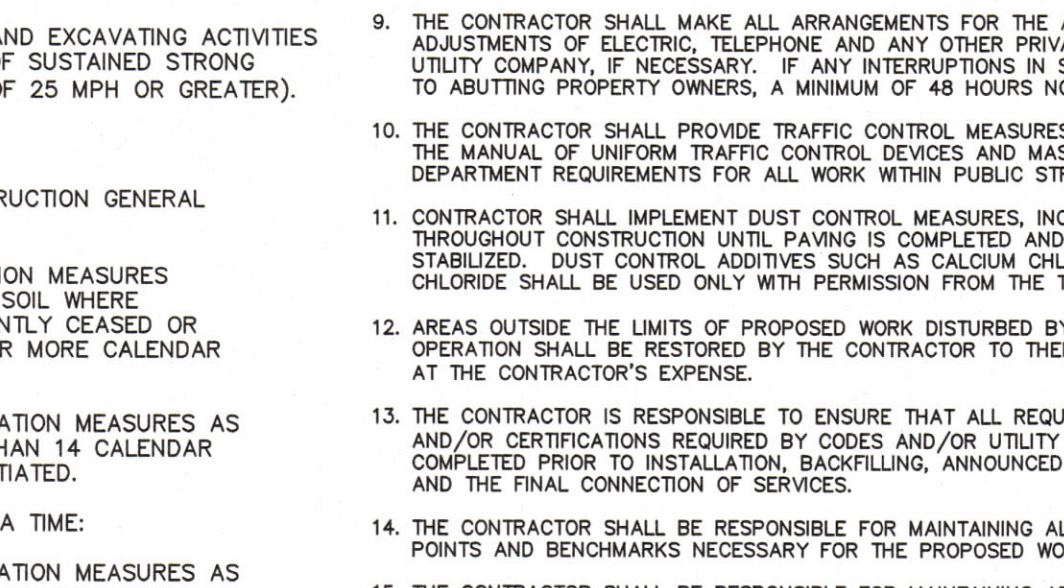
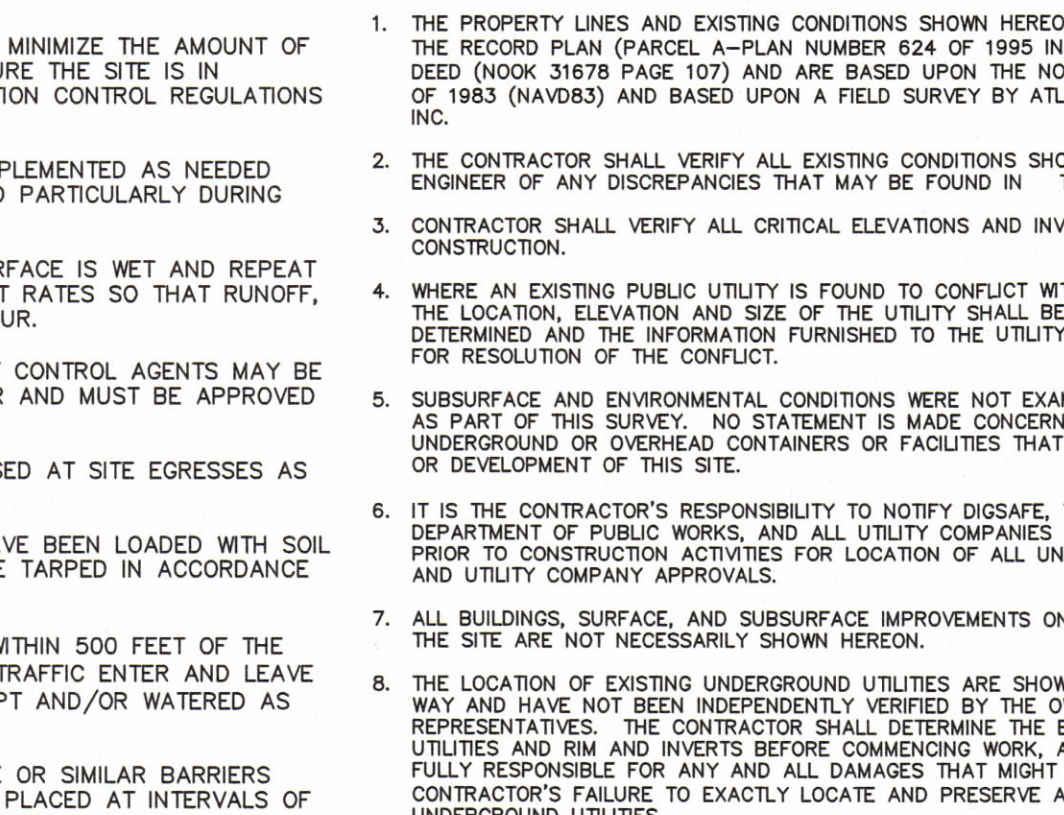
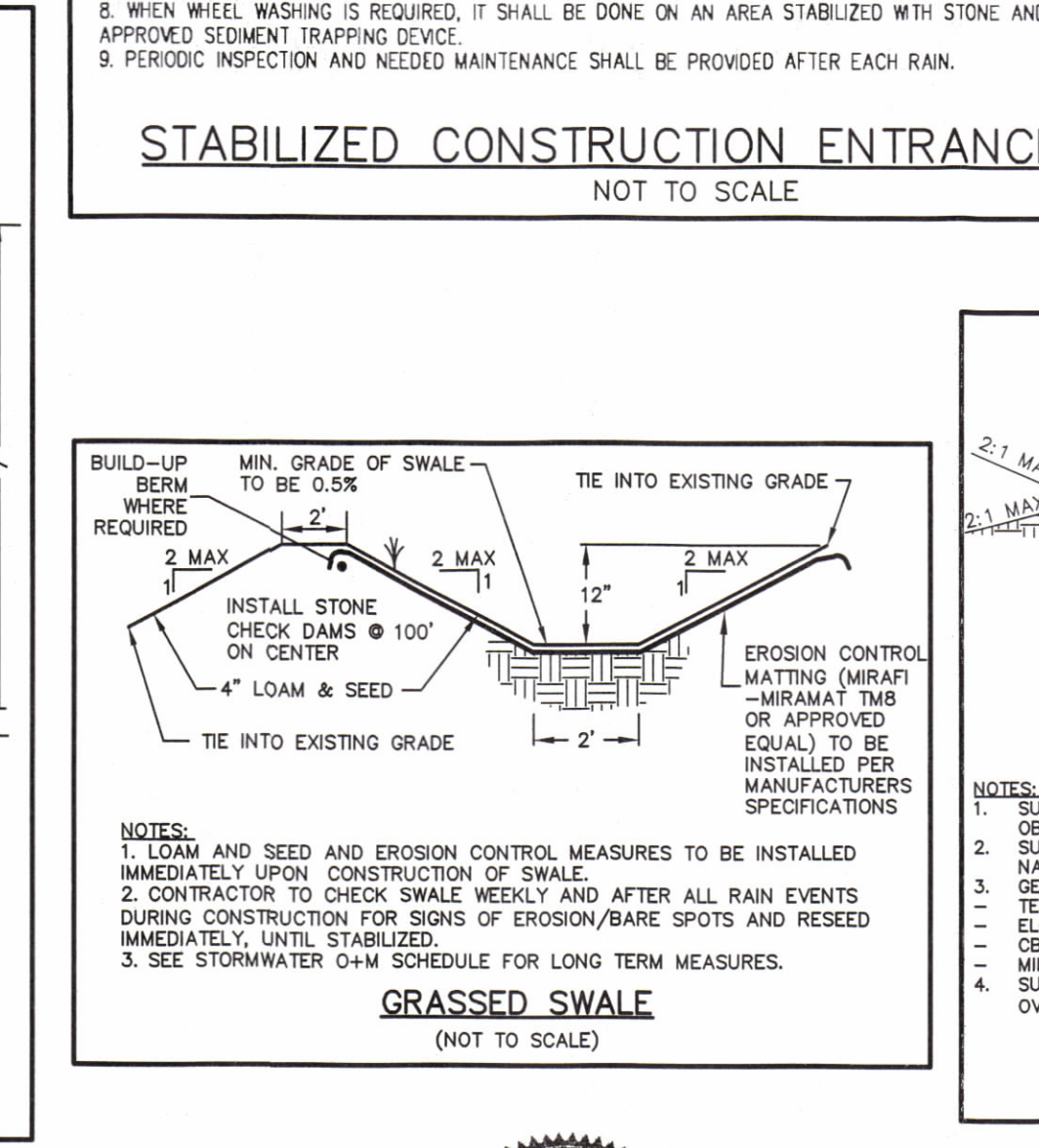
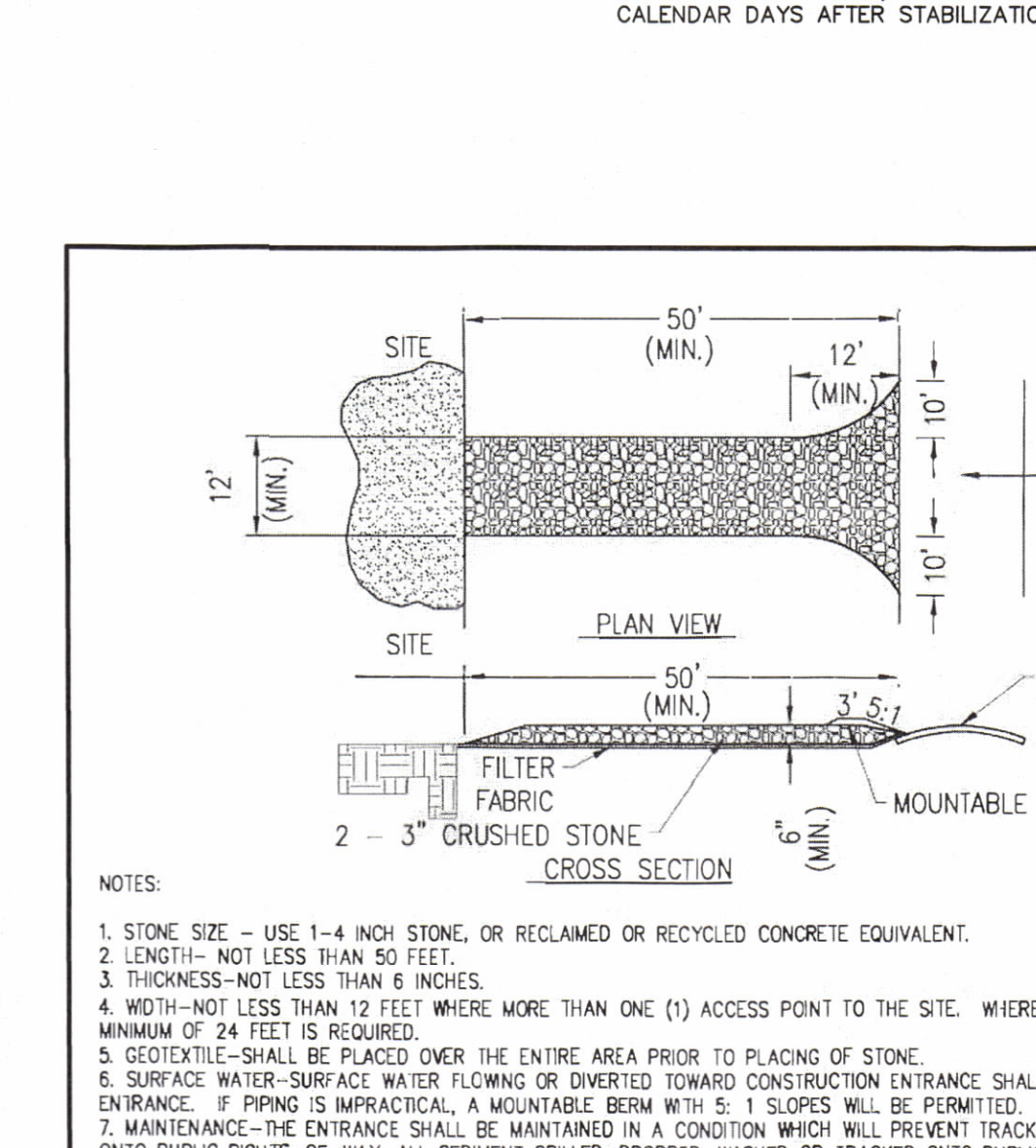
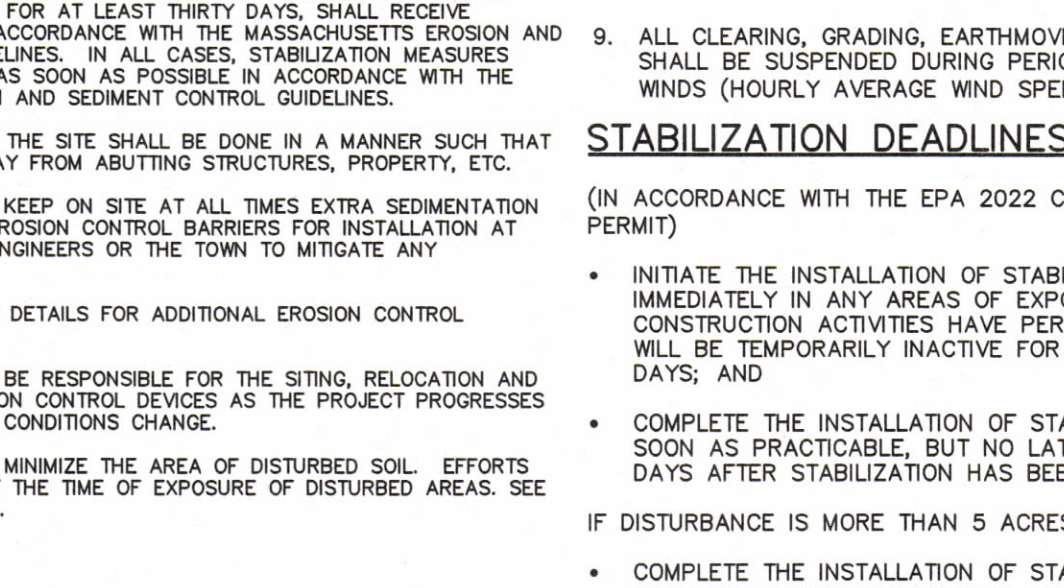
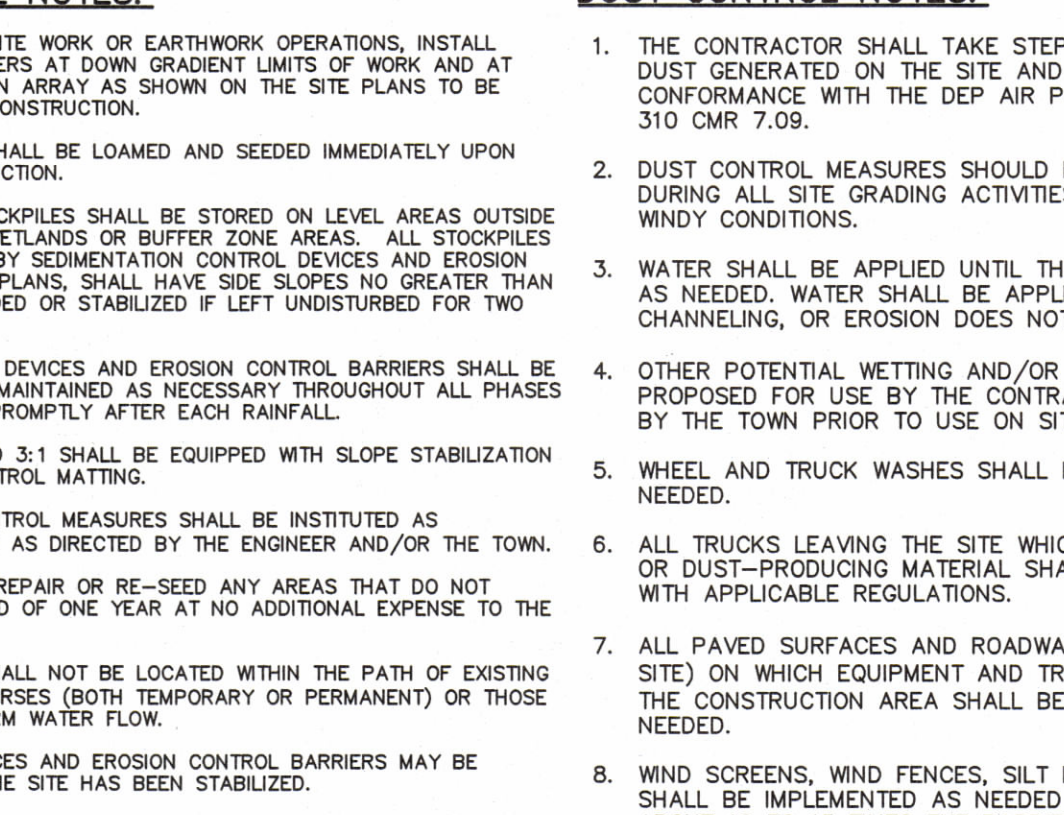
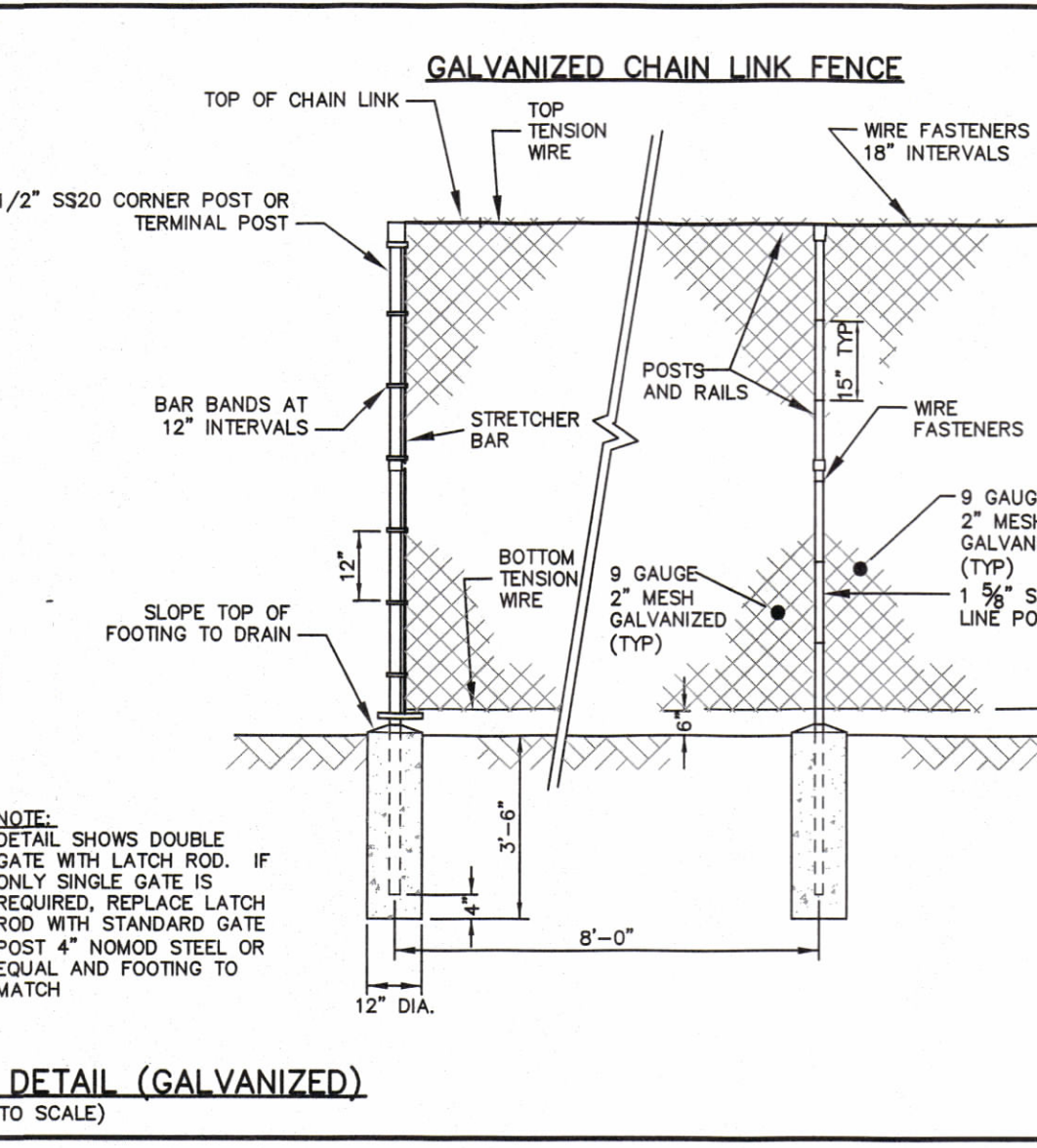
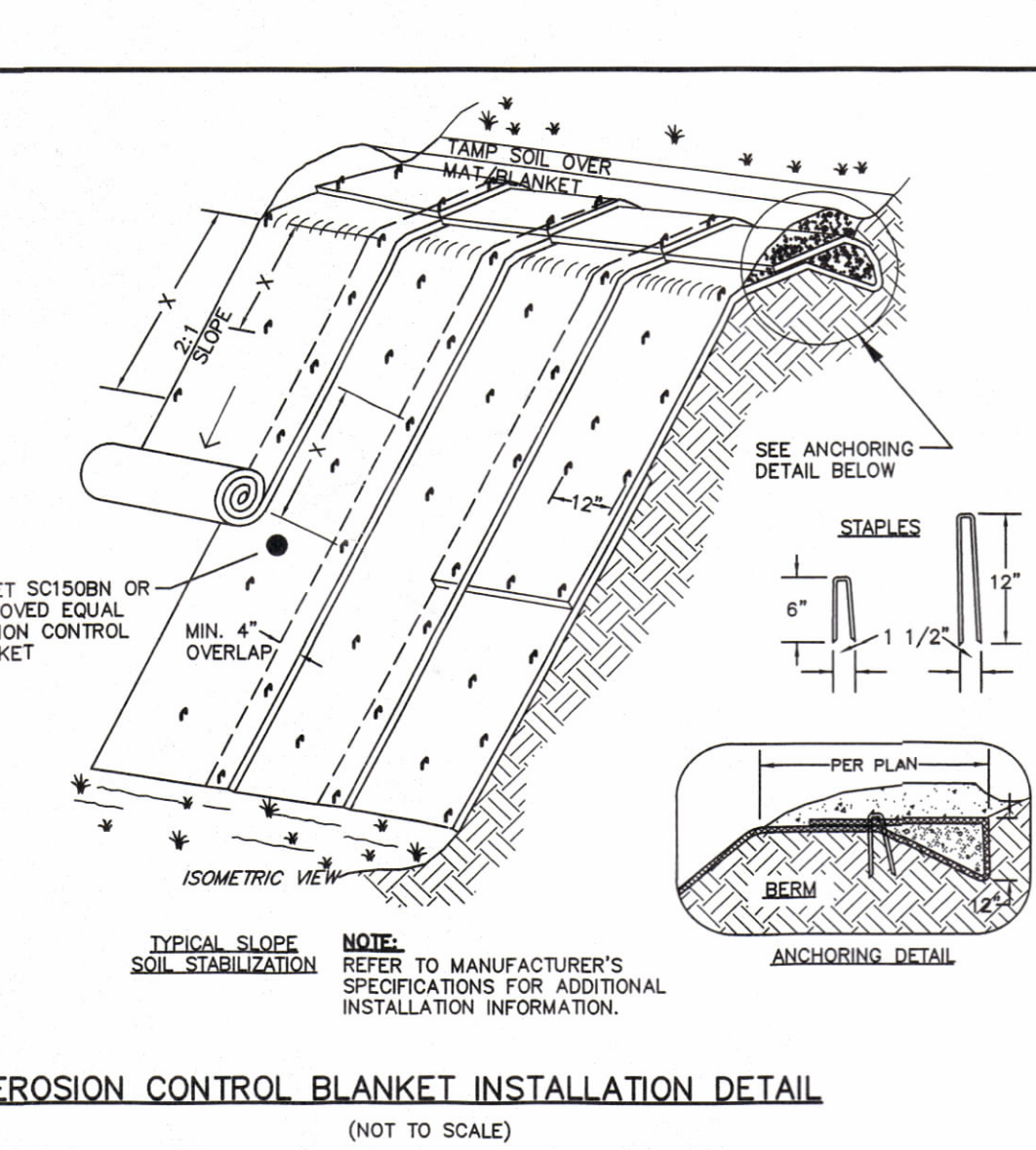
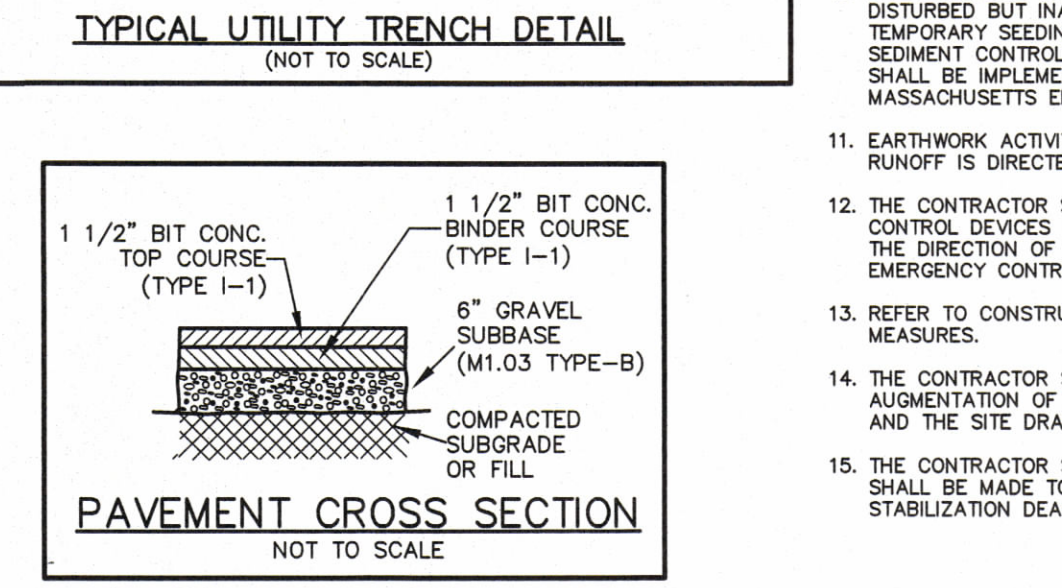
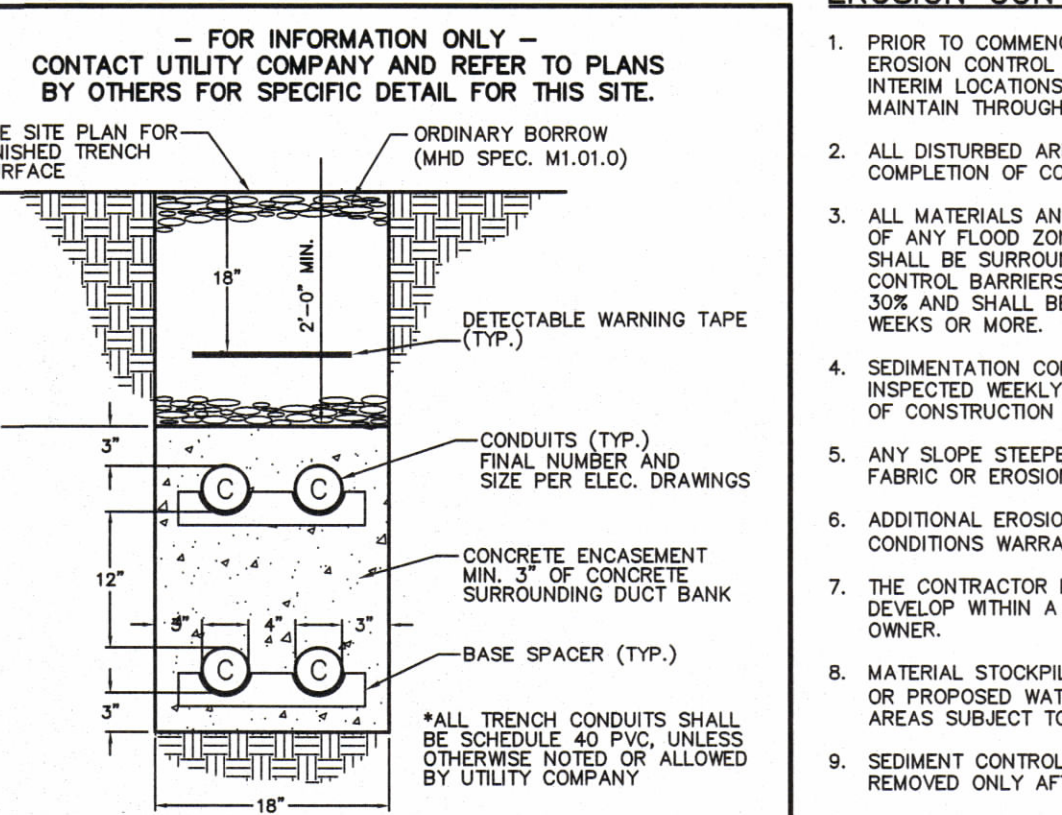
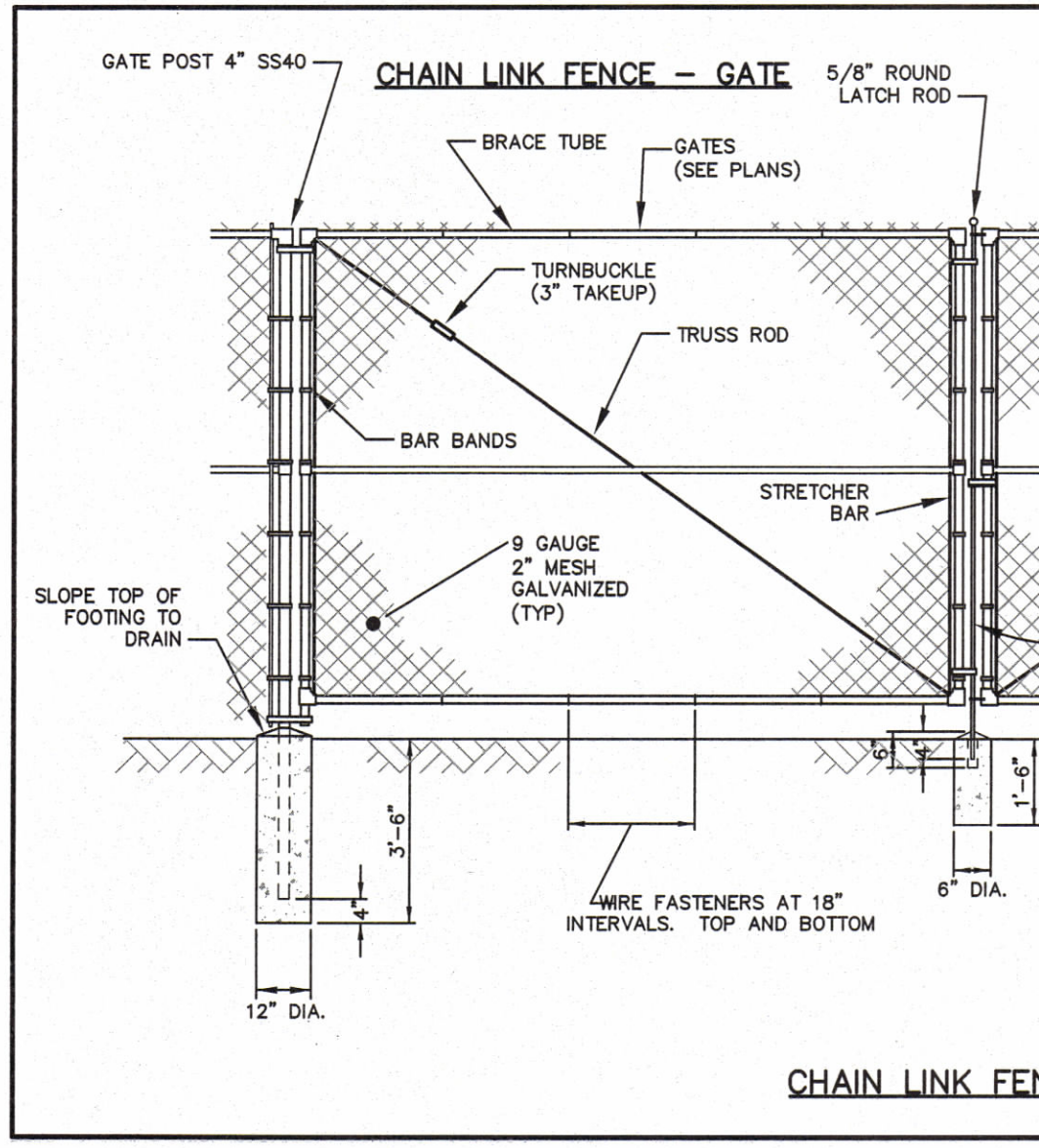
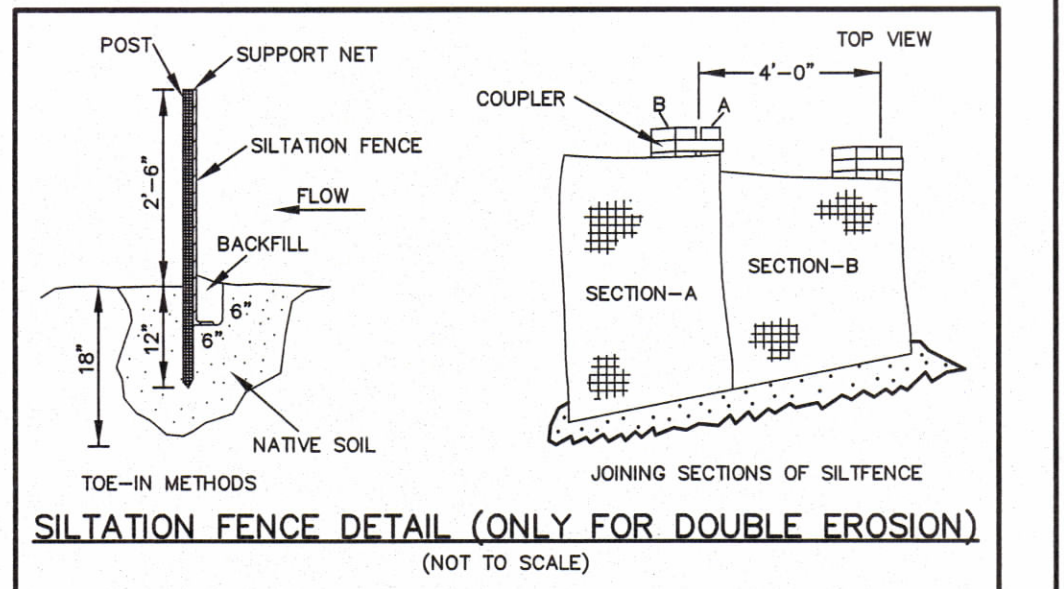
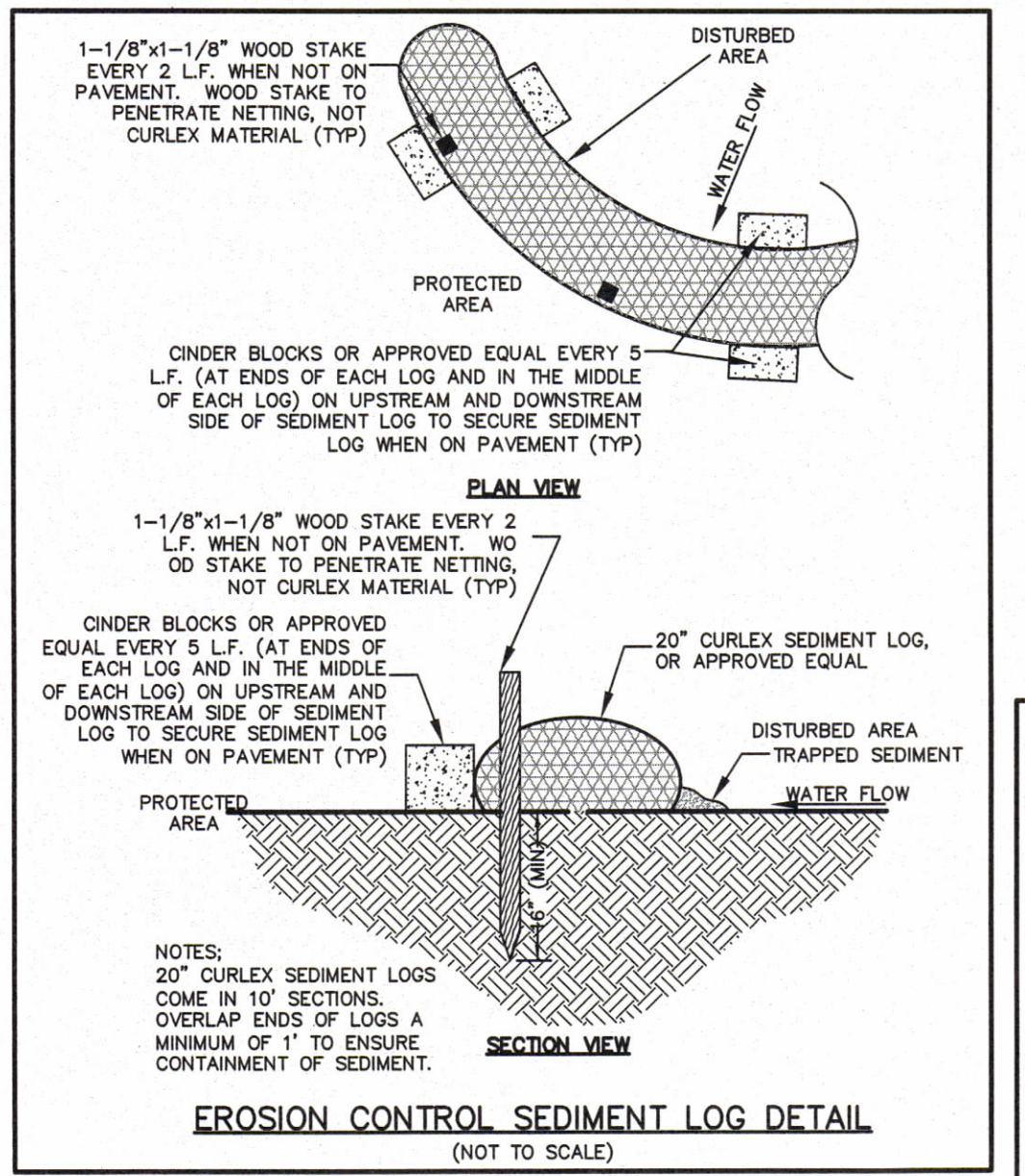
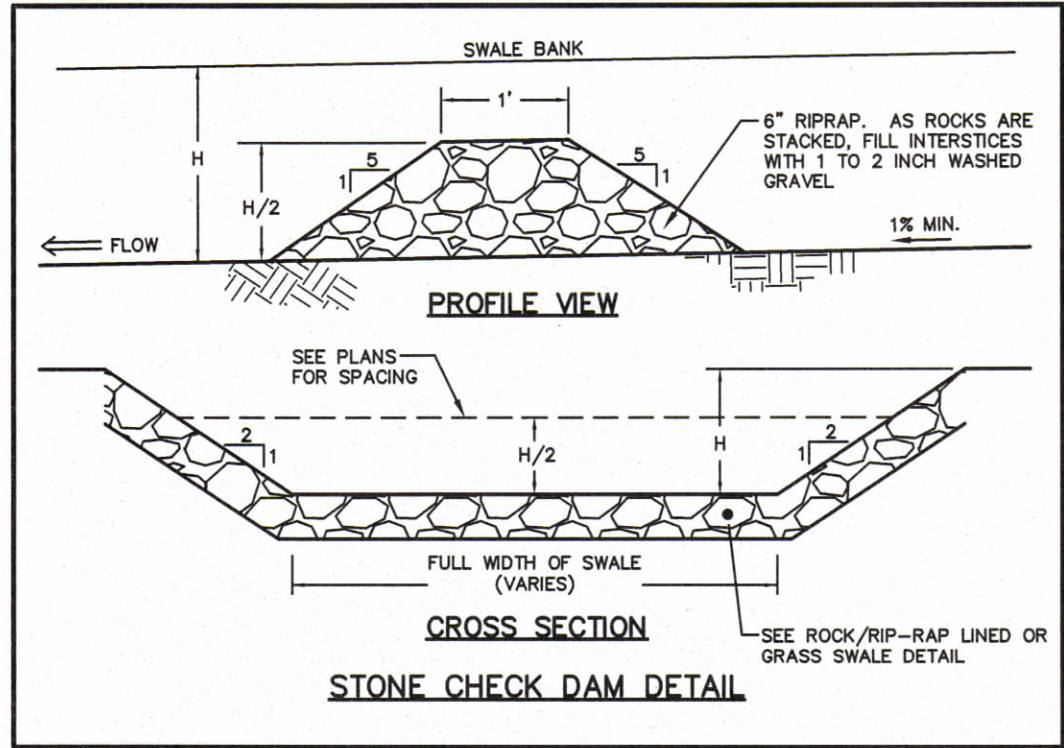
PROPOSED IMPACT TO
BUFFER ZONE = ±56,736

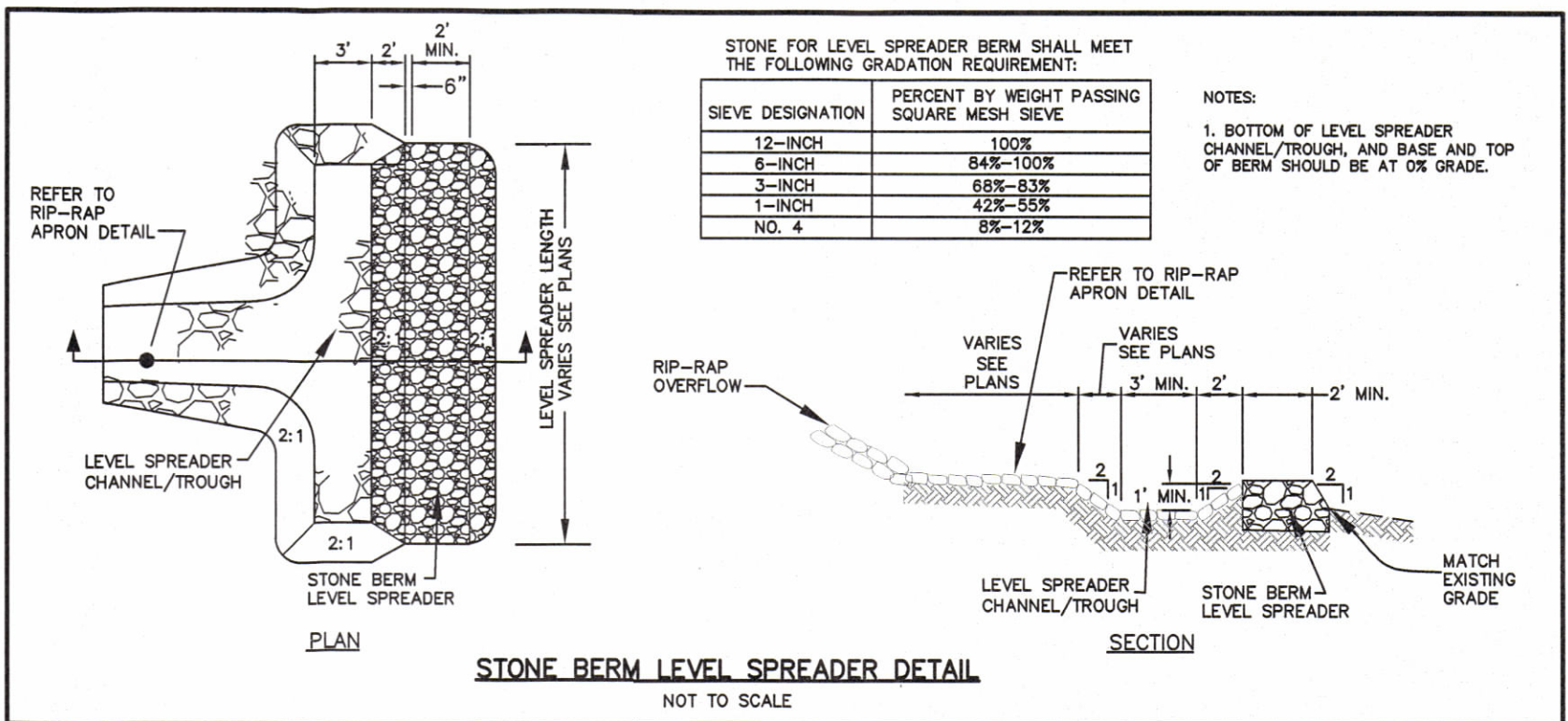
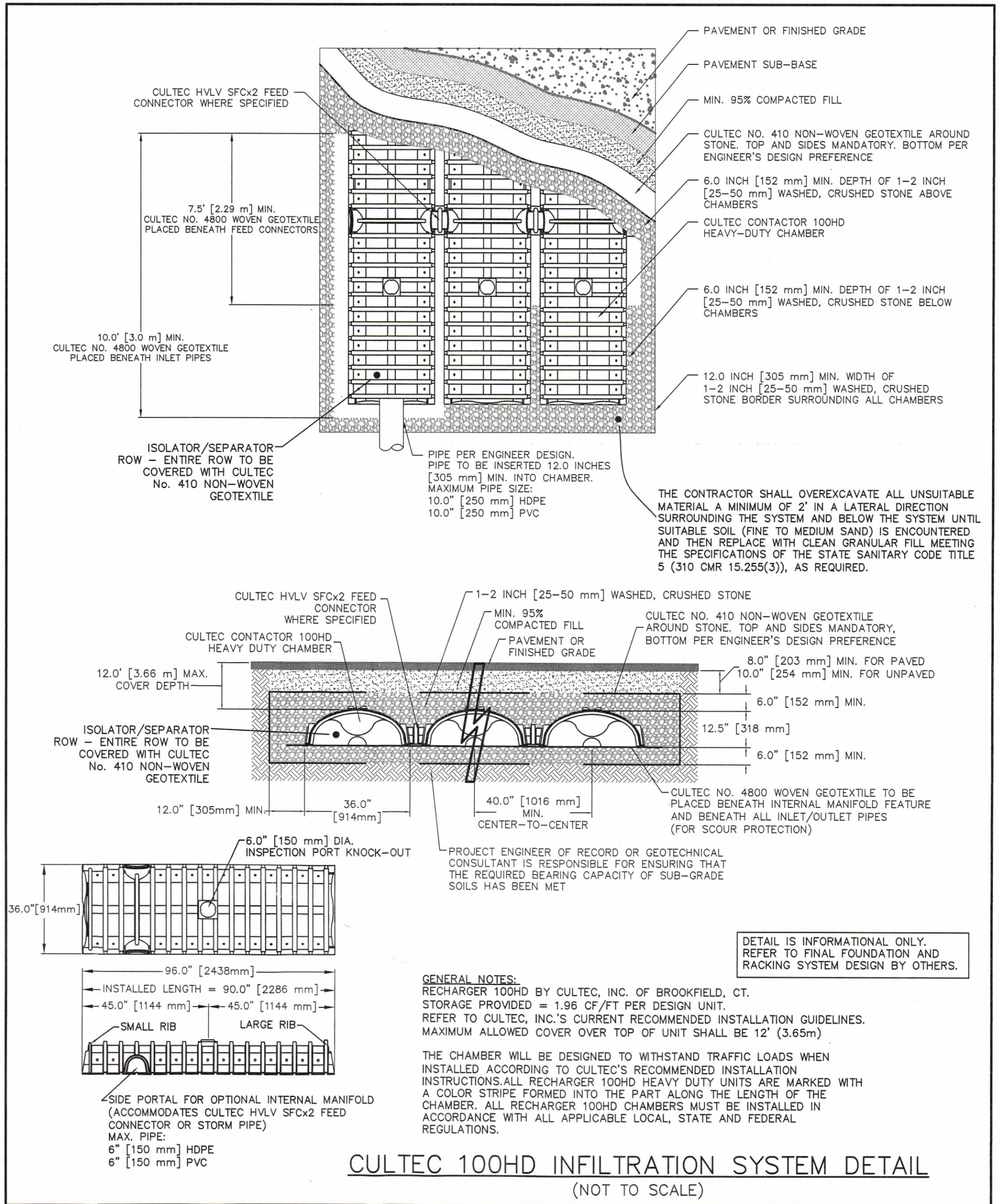
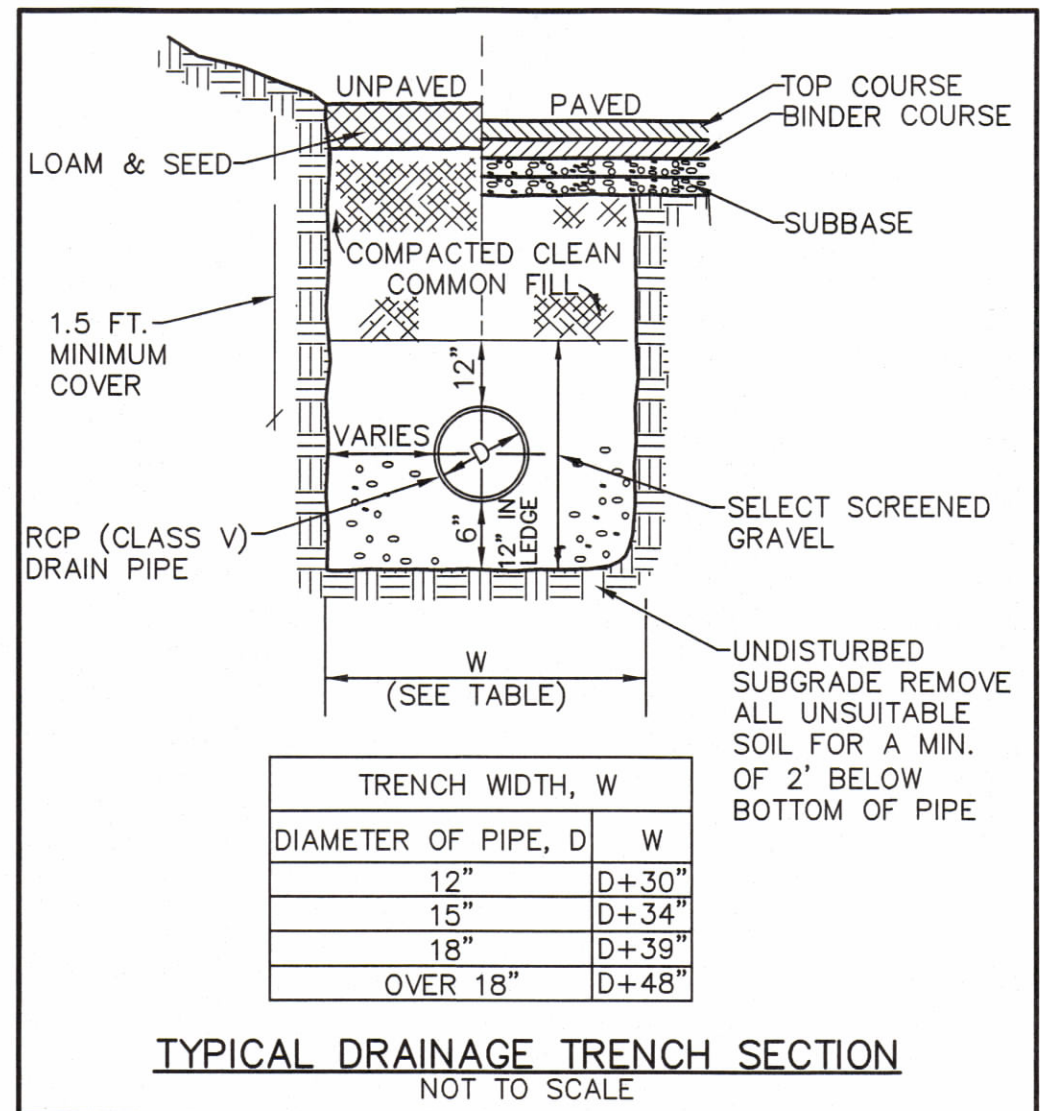
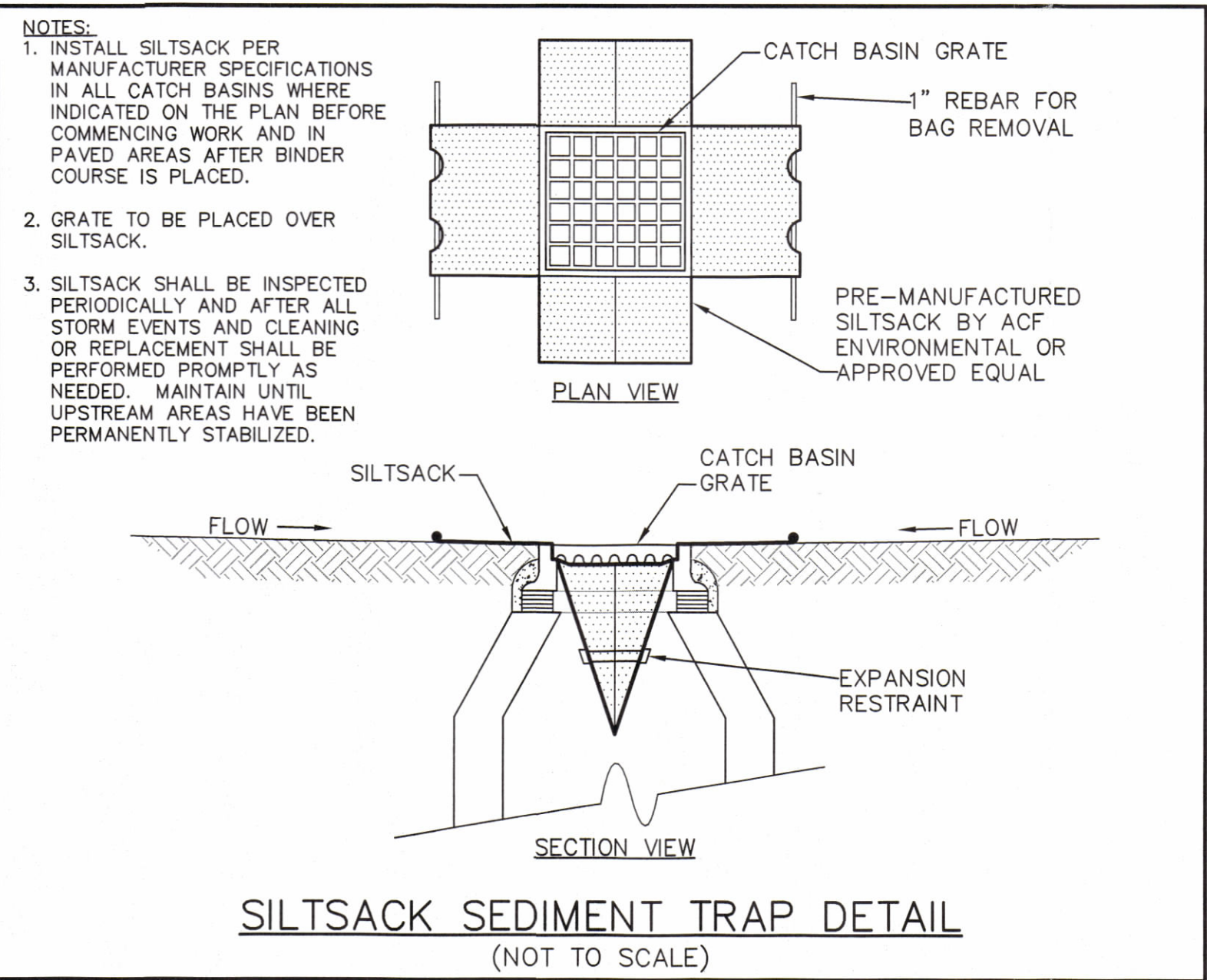
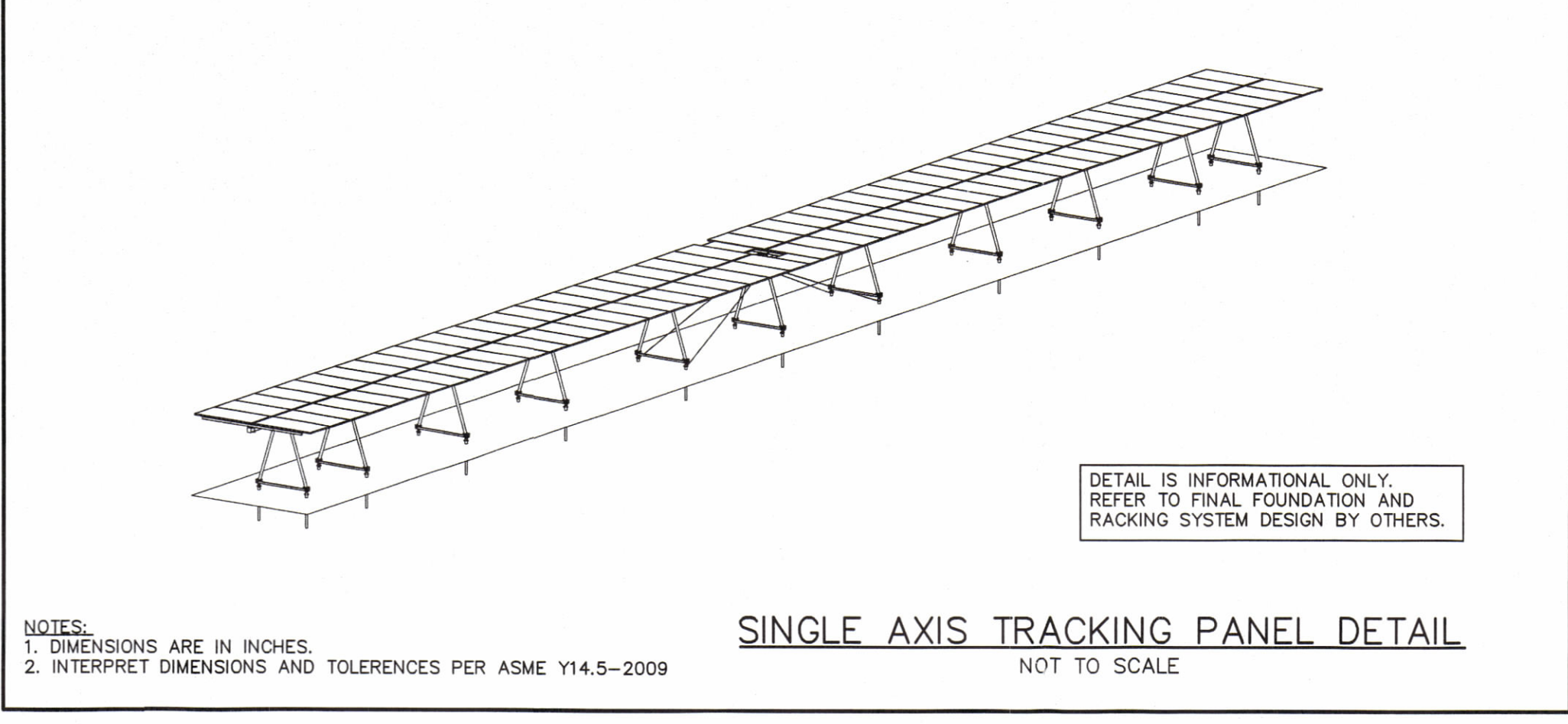
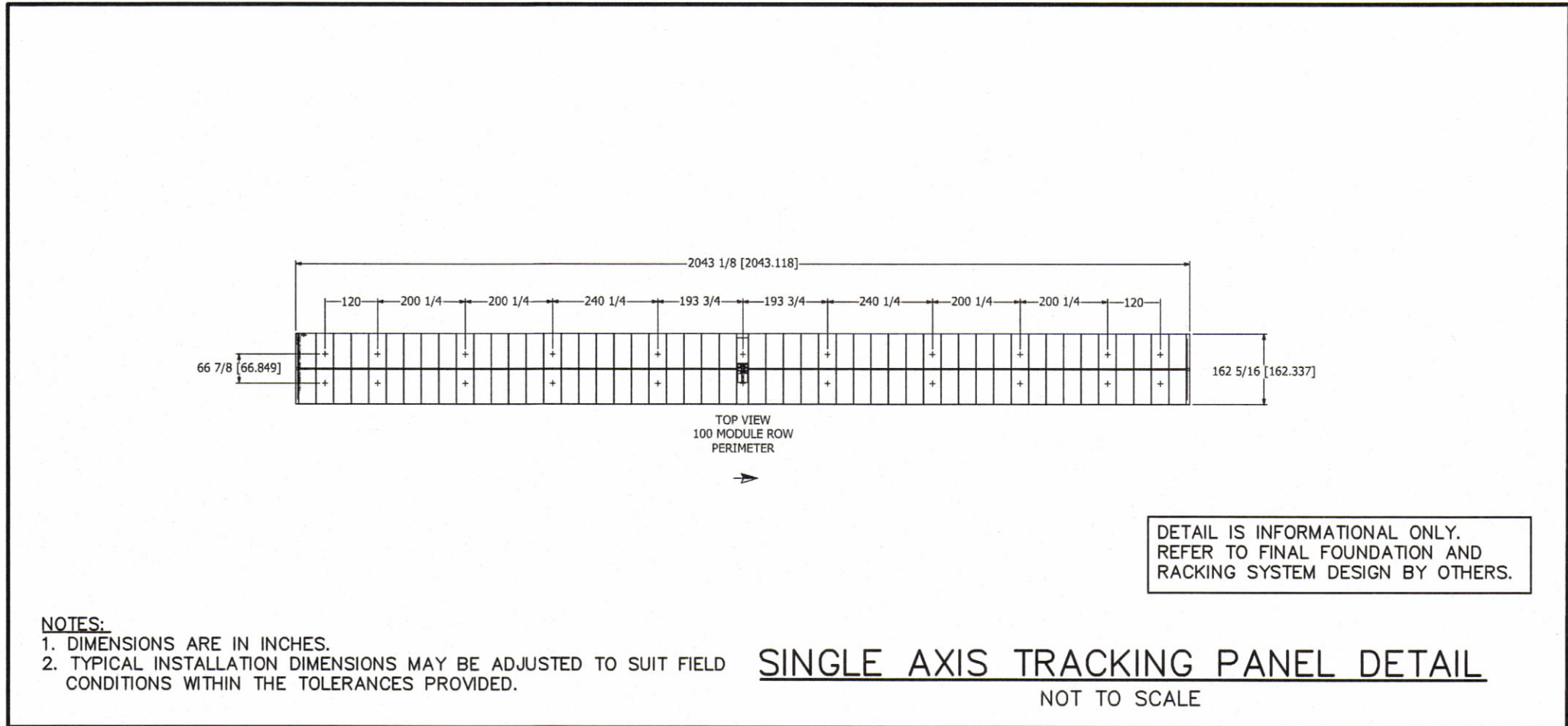
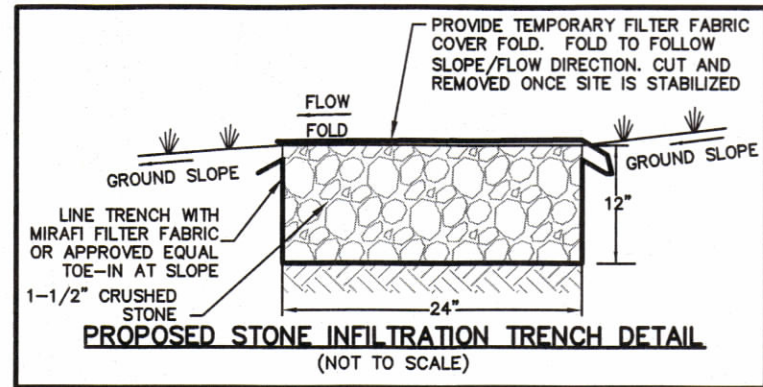
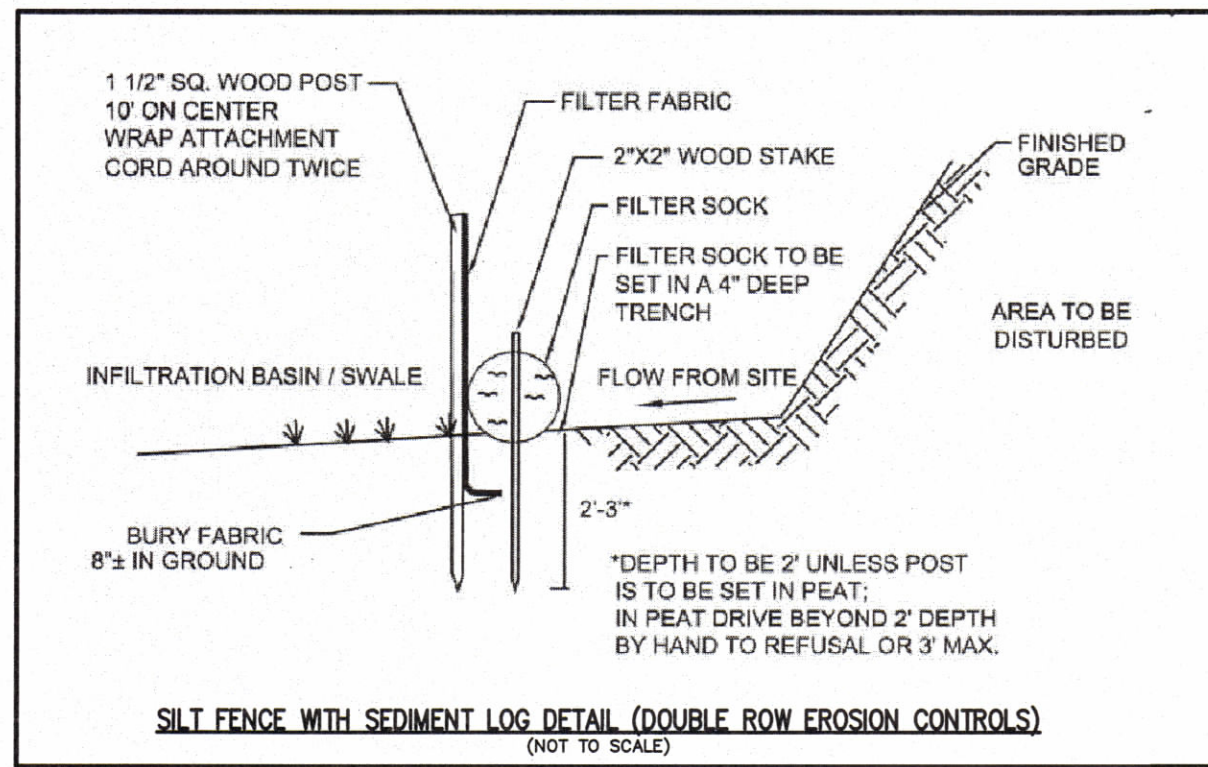
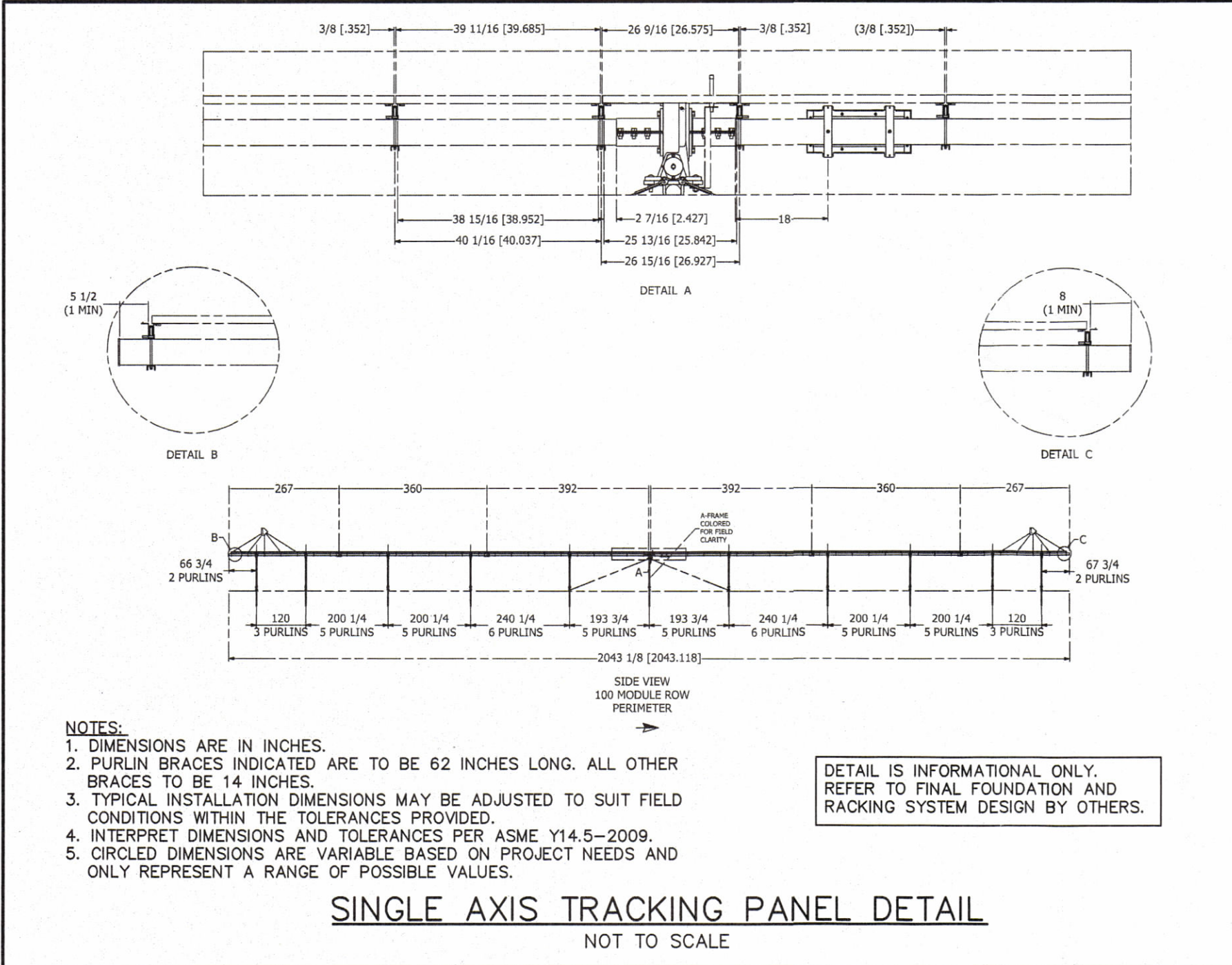
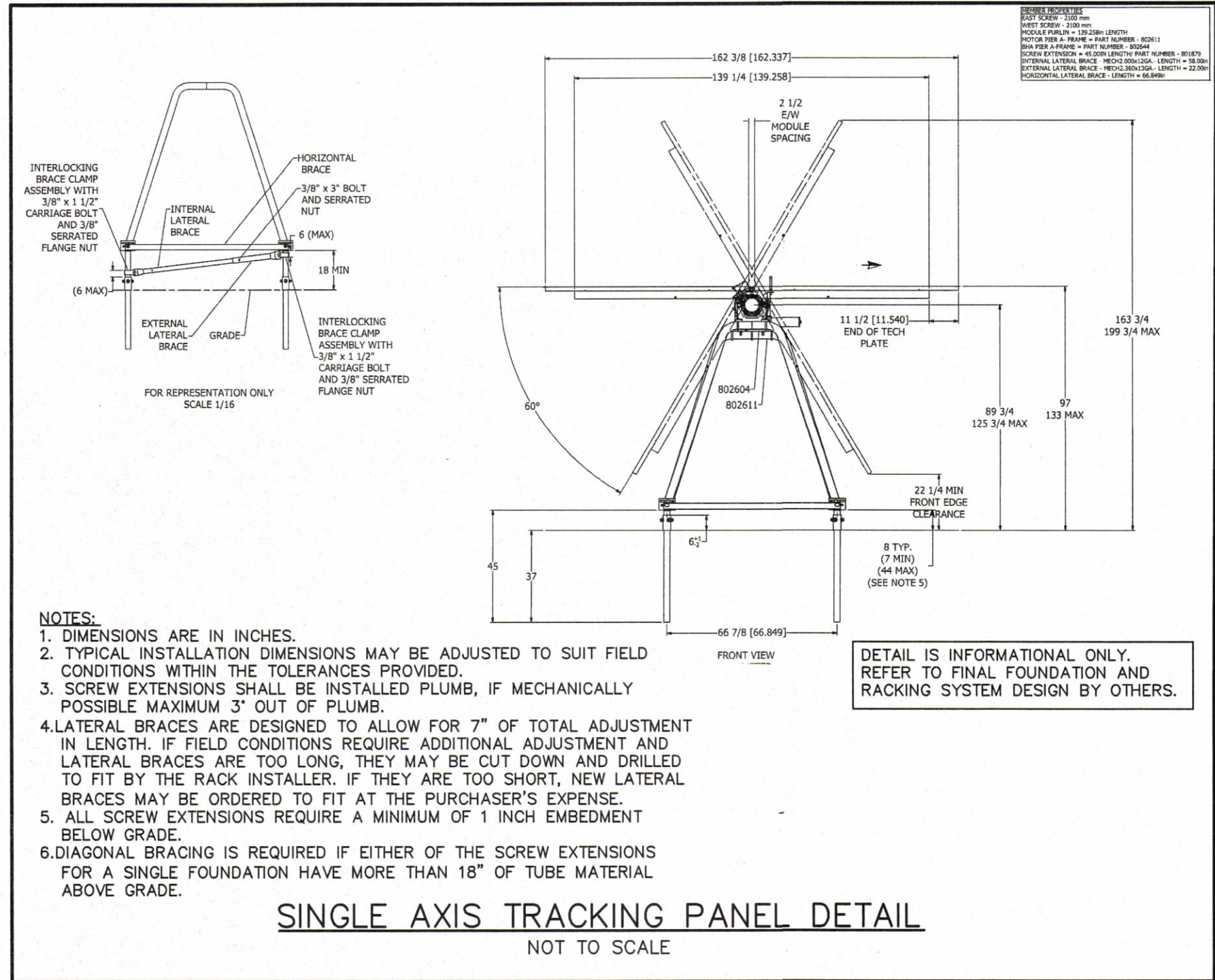
PROPOSED ±617 SF MITIGATION
PLANTING AREA WITHIN EXISTING
PATH FOR DISTURBANCE OF 25'
NO TOUCH ZONE

PROPOSED ±3,294 SF
WETLAND REPLICATION
AREA FOR FILLING OF
ISOLATED WETLAND

SEE SHEET 5 FOR LEGEND
AND SEE SHEET 8 FOR
CONSTRUCTION NOTES

SEE SHEET 6





TEST PIT #1

Estimated Depth to High Groundwater Mottles @74"

SOIL LOG					
Depth (in)	Soil Horizon/ Layer	Soil Texture	Soil Color (Munsell)	Mottles	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	O/A	Sandy Loam	10YR 3/2		
8-34	B	Sandy Loam	10YR 5/6		
34-108	C	Loamy Sand	2.5Y 5/2	74"	

TEST PIT #2

Estimated Depth to High Groundwater Mottles @ 70"

SOIL LOG					
Depth (in)	Soil Horizon/ Layer	Soil Texture	Soil Color (Munsell)	Mottles	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	O/A	Sandy Loam	10YR 3/2		
8-32	B	Sandy Loam	10YR 5/6		
32-94	C	Loamy Sand	2.5Y 5/2	70"	Refusal

TEST PIT #3

Estimated Depth to High Groundwater Mottles @60"

SOIL LOG					
Depth (in)	Soil Horizon/ Layer	Soil Texture	Soil Color (Munsell)	Mottles	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-12	O/A	Sandy Loam	10YR 3/2		
12-38	B	Sandy Loam	10YR 5/6		
38-56	C1	Loamy Sand	2.5Y 5/2		
56-74	C2d	Sandy Loam	2.5Y 5/3	60"	
74-122	C3	Medium Coarse Sand	2.5Y 5/4		

TEST PIT #4

Estimated Depth to High Groundwater Mottles @50"

SOIL LOG					
Depth (in)	Soil Horizon/ Layer	Soil Texture	Soil Color (Munsell)	Mottles	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-10	O/A	Sandy Loam	10YR 3/2		
10-32	B	Sandy Loam	10YR 5/8		
32-76	C	Loamy Sand	2.5Y 5/6	50"	

TEST PIT #5

Estimated Depth to High Groundwater Mottles @40"

SOIL LOG					
Depth (in)	Soil Horizon/ Layer	Soil Texture	Soil Color (Munsell)	Mottles	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	O/A	Sandy Loam	10YR 3/2		
8-34	B	Sandy Loam	10YR 5/8		
34-84	C	Loamy Sand	2.5Y 5/6	40"	Refusal

