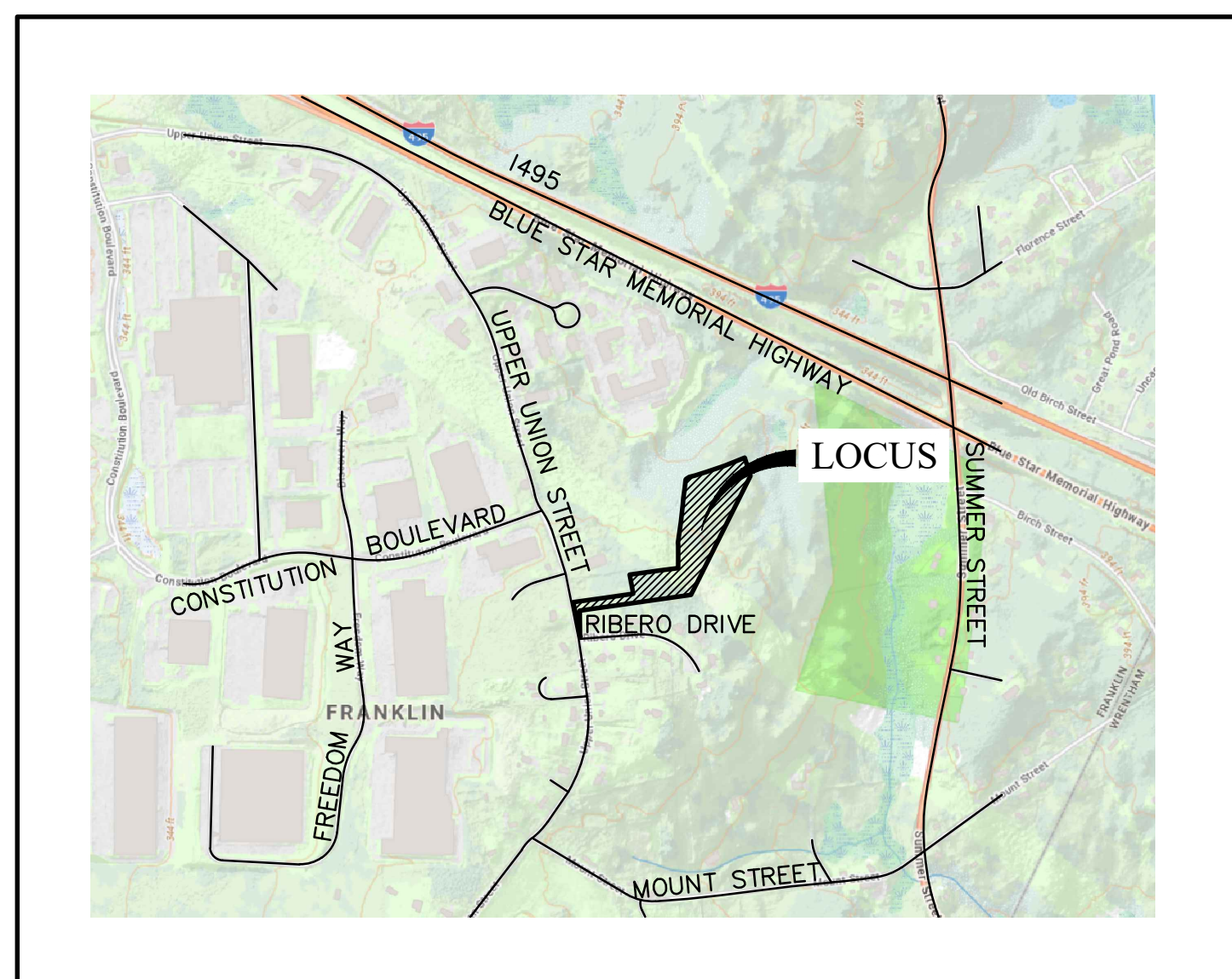


SITE DEVELOPMENT PLANS FOR UPPER UNION SOLAR PROJECT

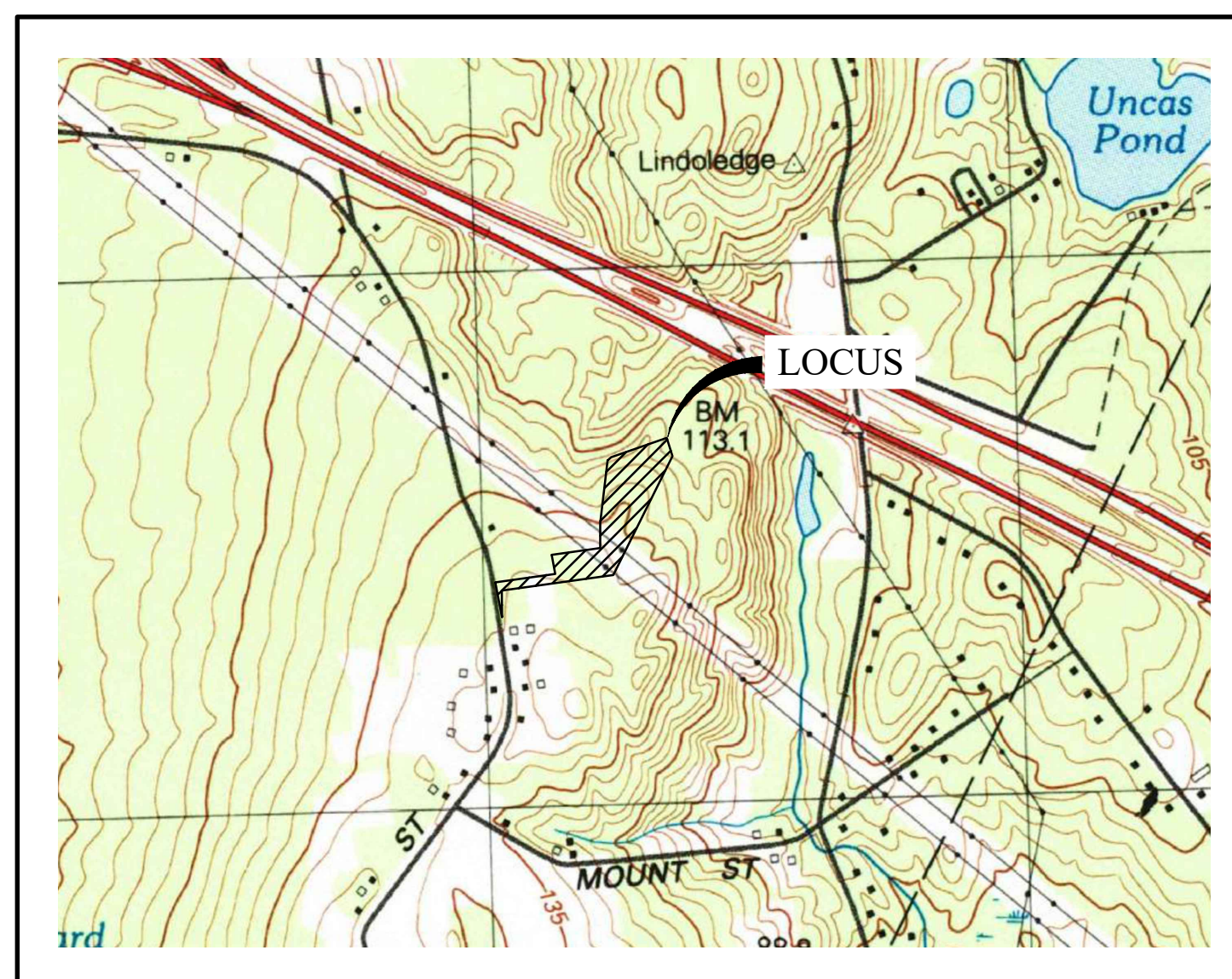
FRANKLIN, MASSACHUSETTS 02038

DATE: JUNE 19, 2023

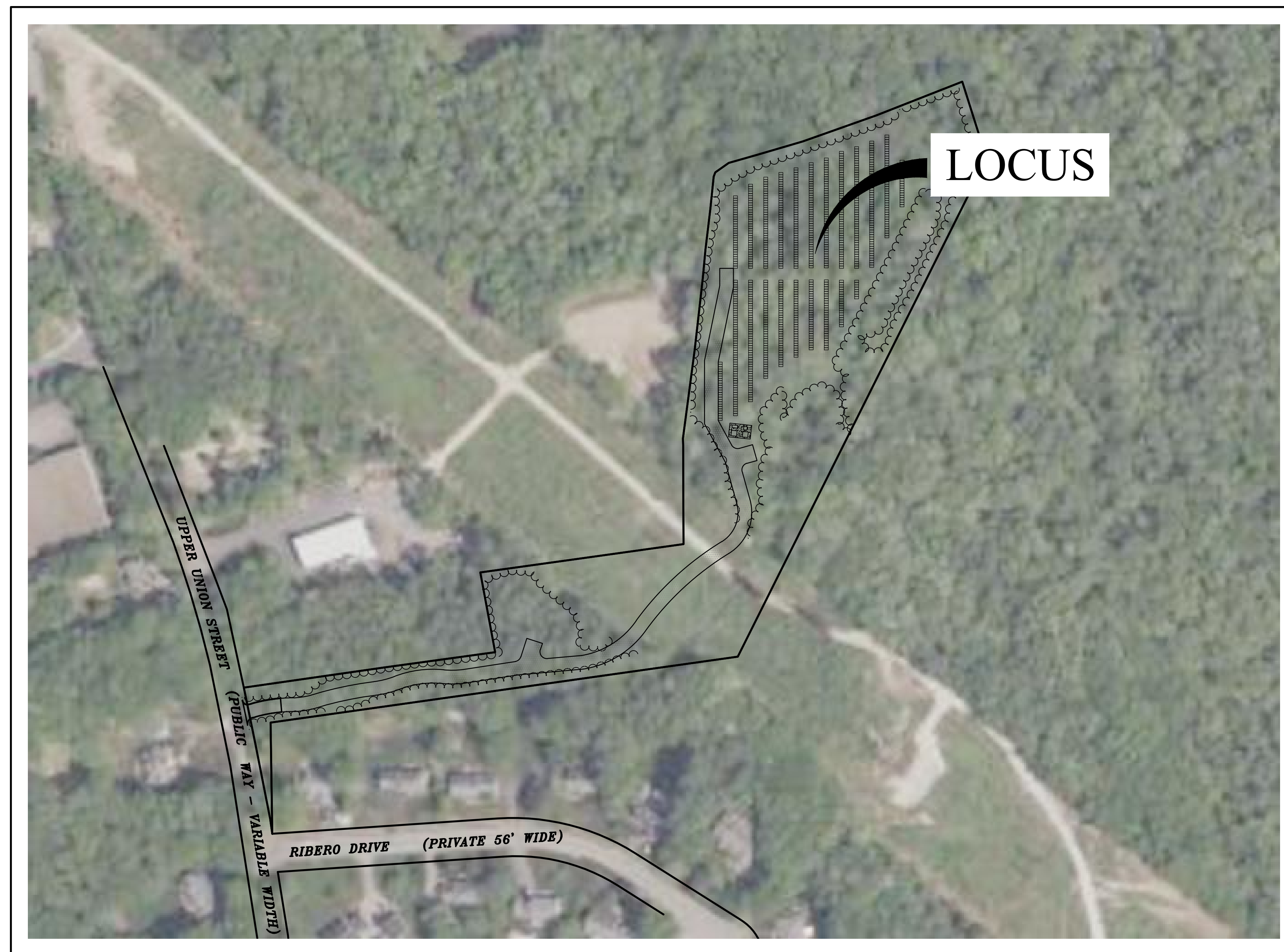
REVISION DATE: NOVEMBER 10, 2023



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:

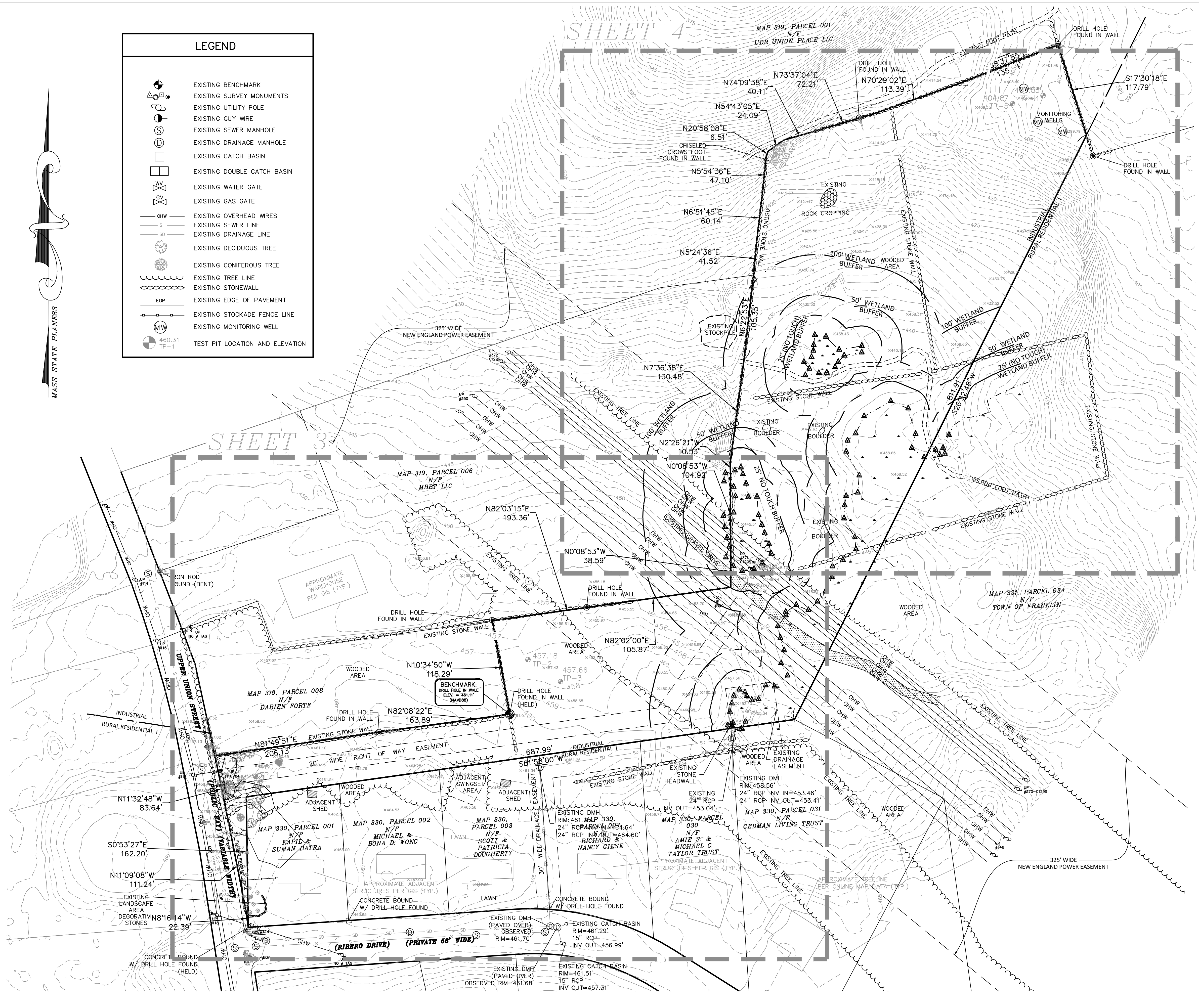
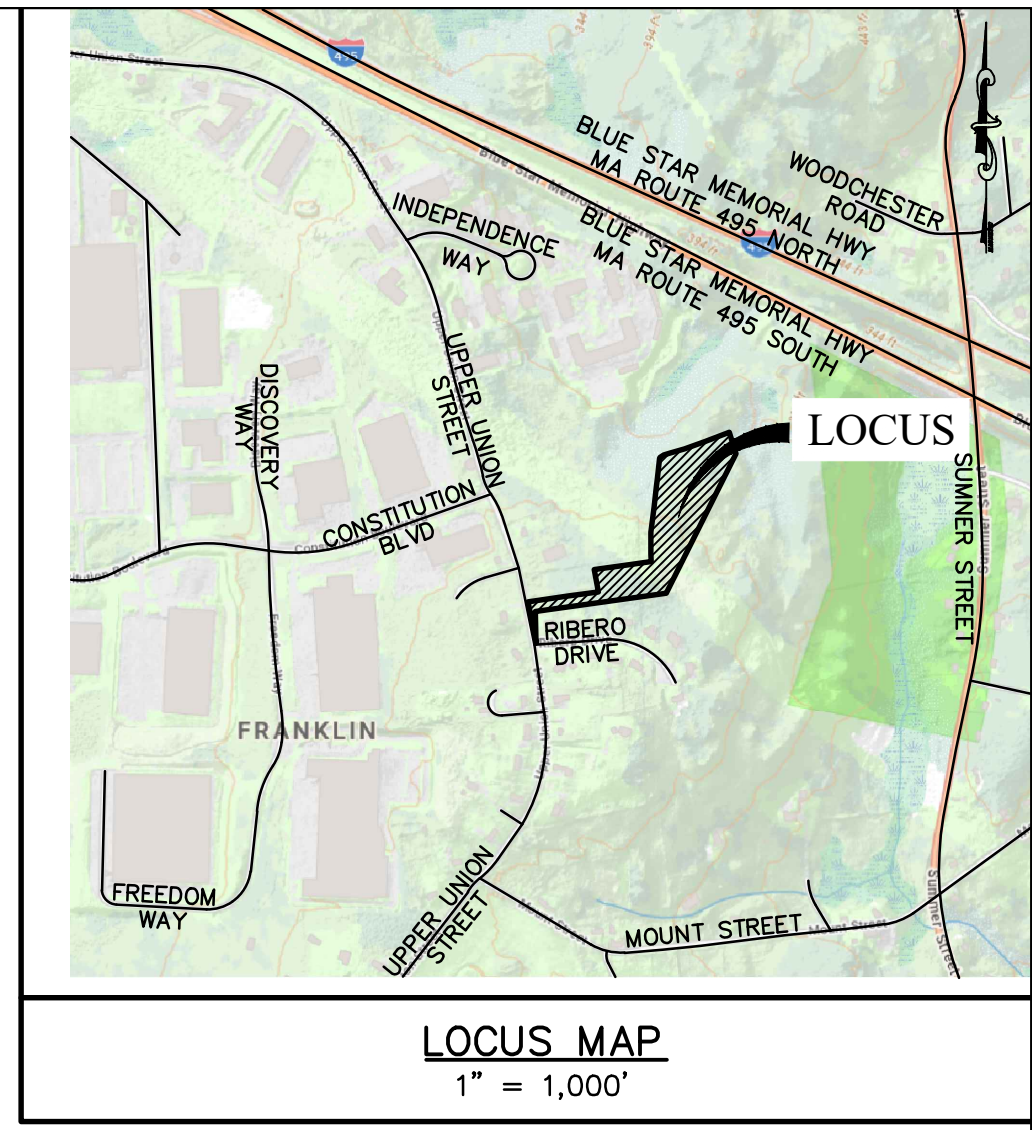
VS UNION SOLAR SMART, LLC
24942 DANA POINT HARBOR
DANA POINT, CA 92629

ENGINEER:

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

MASS STATE PLAN 883

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 STONE WALL
	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 (0 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.



Atlantic DESIGN ENGINEERS, INC.
 P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

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

SCALE
 SCALE 1" = 60'
 DATE

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

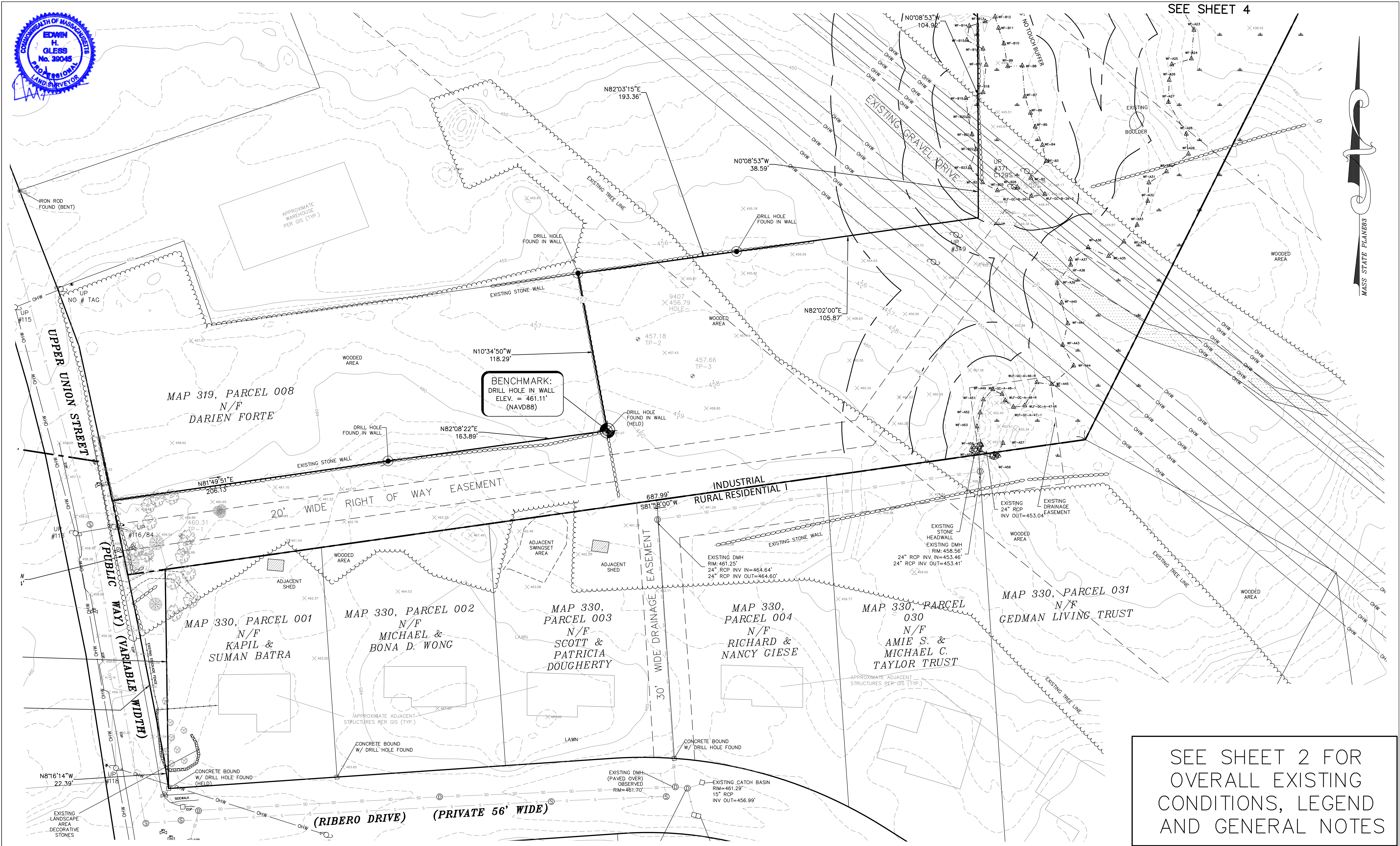
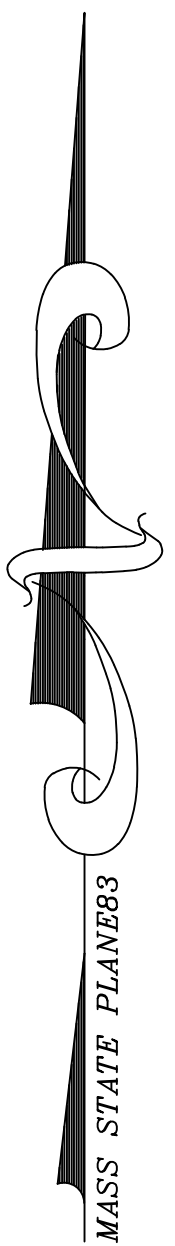
PREPARED FOR:
VS UNION SOLAR SMART, LLC
 24941 DANA POINT HARBOR
 DANA POINT, CA 92629

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

FILE: 3328-EX-COND-REV1
 Sheet of
 2 10
 JOB NUMBER
 3328.00



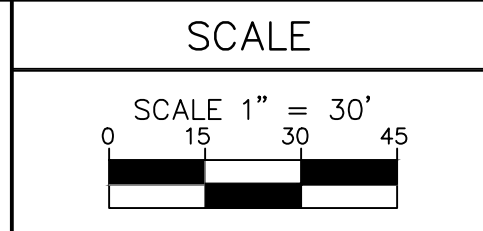
SEE SHEET 4



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

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

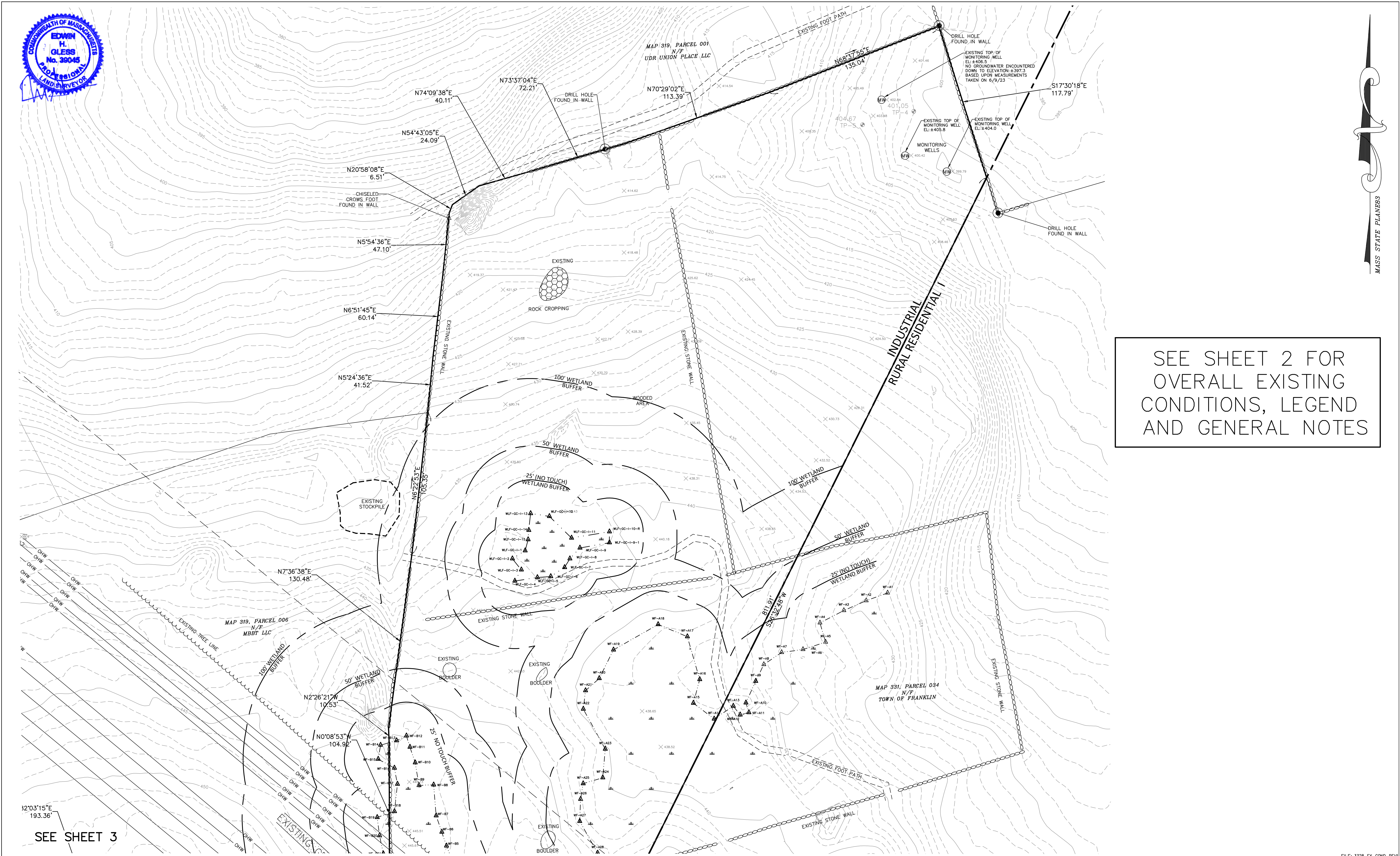
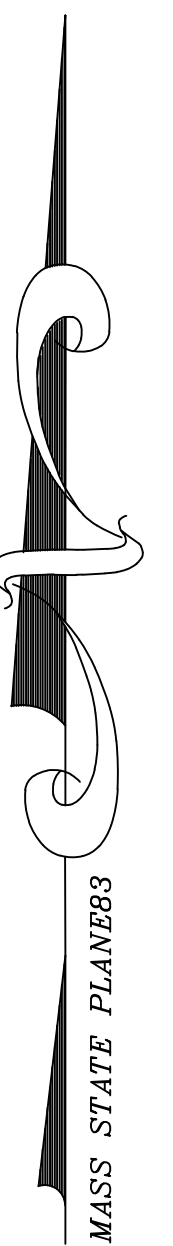


NO.	BY	DATE	REVISION
1	BJR	11/10/23	PEER REVIEW/TOWN COMMENTS

PREPARED FOR:
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 24941 DANA POINT HARBOR
 DANA POINT, CA 92629

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 FRANKLIN, MA
 JUNE 19, 2023

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

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

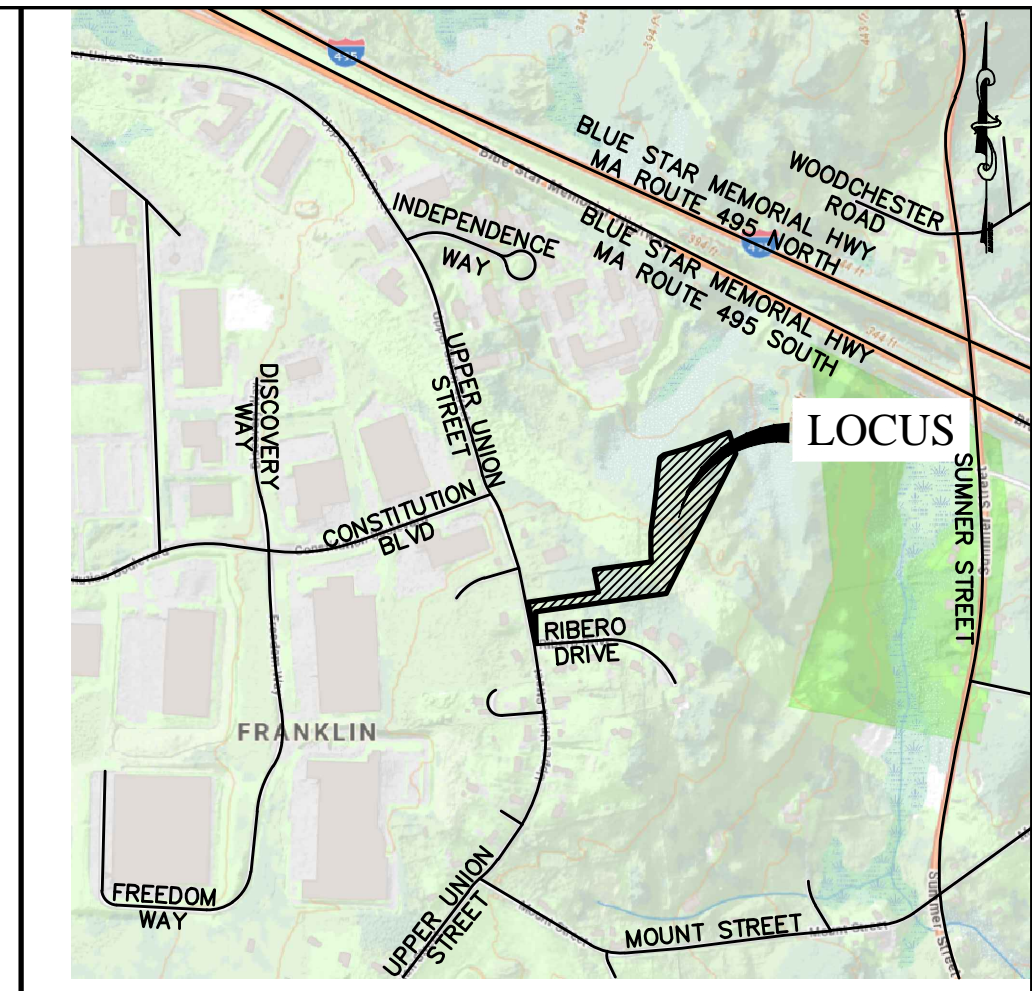
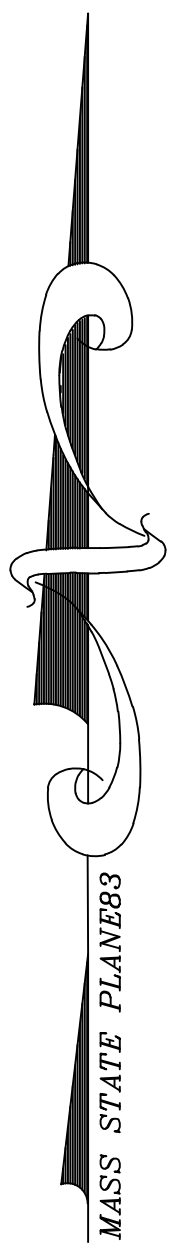
ZONING REQUIREMENTS

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)

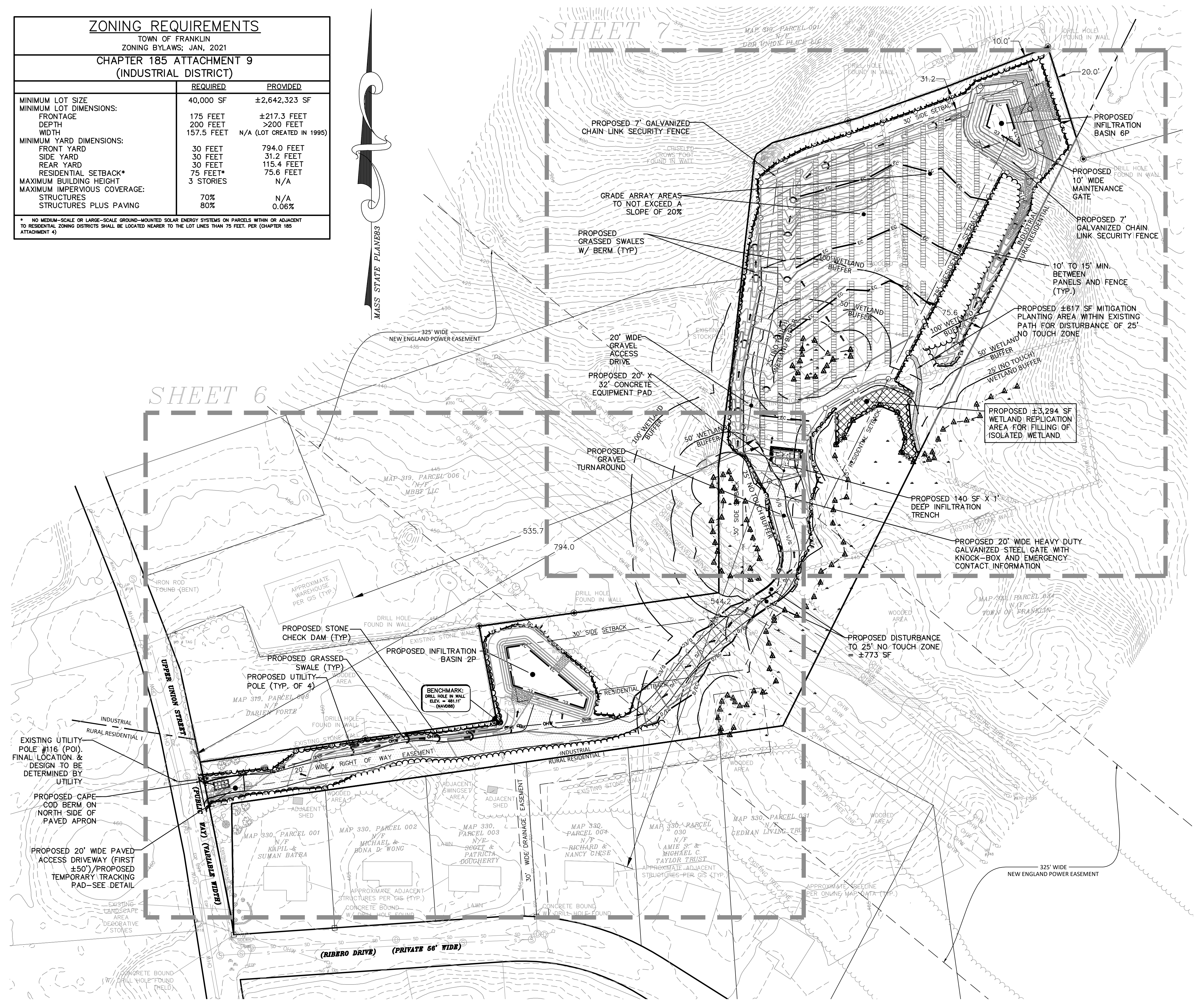


LOCUS MAP
1" = 1,000'

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



Atlantic DESIGN ENGINEERS, INC.
P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

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

SCALE
SCALE 1" = 60'
0 30 60 120

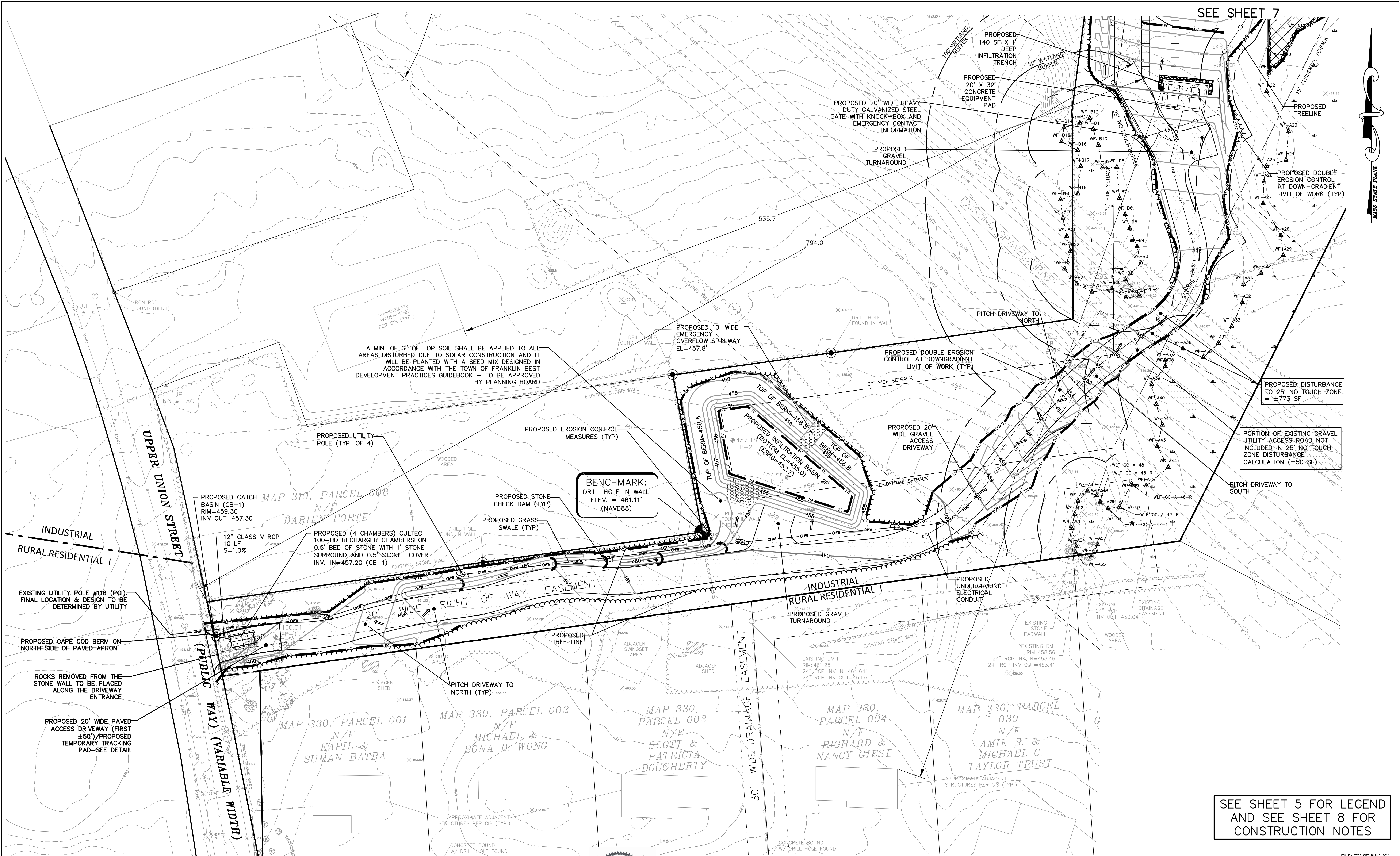
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NO.	1	BY	BJR
		DATE	11/10/23
		REVISION	PEER REVIEW/TOWN COMMENTS

APPLICANT:
VS UNION SOLAR SMART, LLC
24941 DANA POINT HARBOR
DANA POINT, CA 92629

OVERALL DEVELOPMENT PLAN
FOR
UPPER UNION SOLAR PROJECT
JUNE 19, 2023
FRANKLIN, MA

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5	10
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SEE SHEET 7



A MIN. OF 6" OF TOP SOIL SHALL BE APPLIED TO ALL AREAS DISTURBED DUE TO SOLAR CONSTRUCTION AND IT WILL BE PLANTED WITH A SEED MIX DESIGNED IN ACCORDANCE WITH THE TOWN OF FRANKLIN BEST DEVELOPMENT PRACTICES GUIDEBOOK - TO BE APPROVED BY PLANNING BOARD

BENCHMARK:
DRILL HOLE IN WALL
ELEV. = 461.11'
(NAVD88)

PROPOSED DISTURBANCE TO 25' NO TOUCH ZONE = ±773 SF

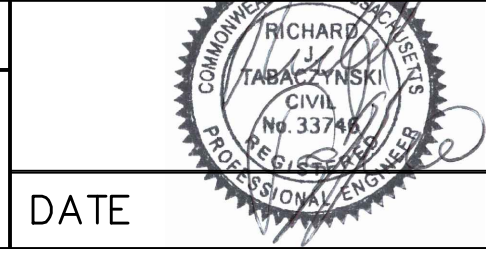
PORTION OF EXISTING GRAVEL UTILITY ACCESS ROAD NOT INCLUDED IN 25' NO TOUCH ZONE DISTURBANCE CALCULATION (±50 SF)

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

Atlantic DESIGN ENGINEERS, INC.
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Designed by : _____
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 Checked by : _____
 Survey chk. by : _____
 Approved by : _____

SCALE
SCALE 1" = 30'
0 15 30 45



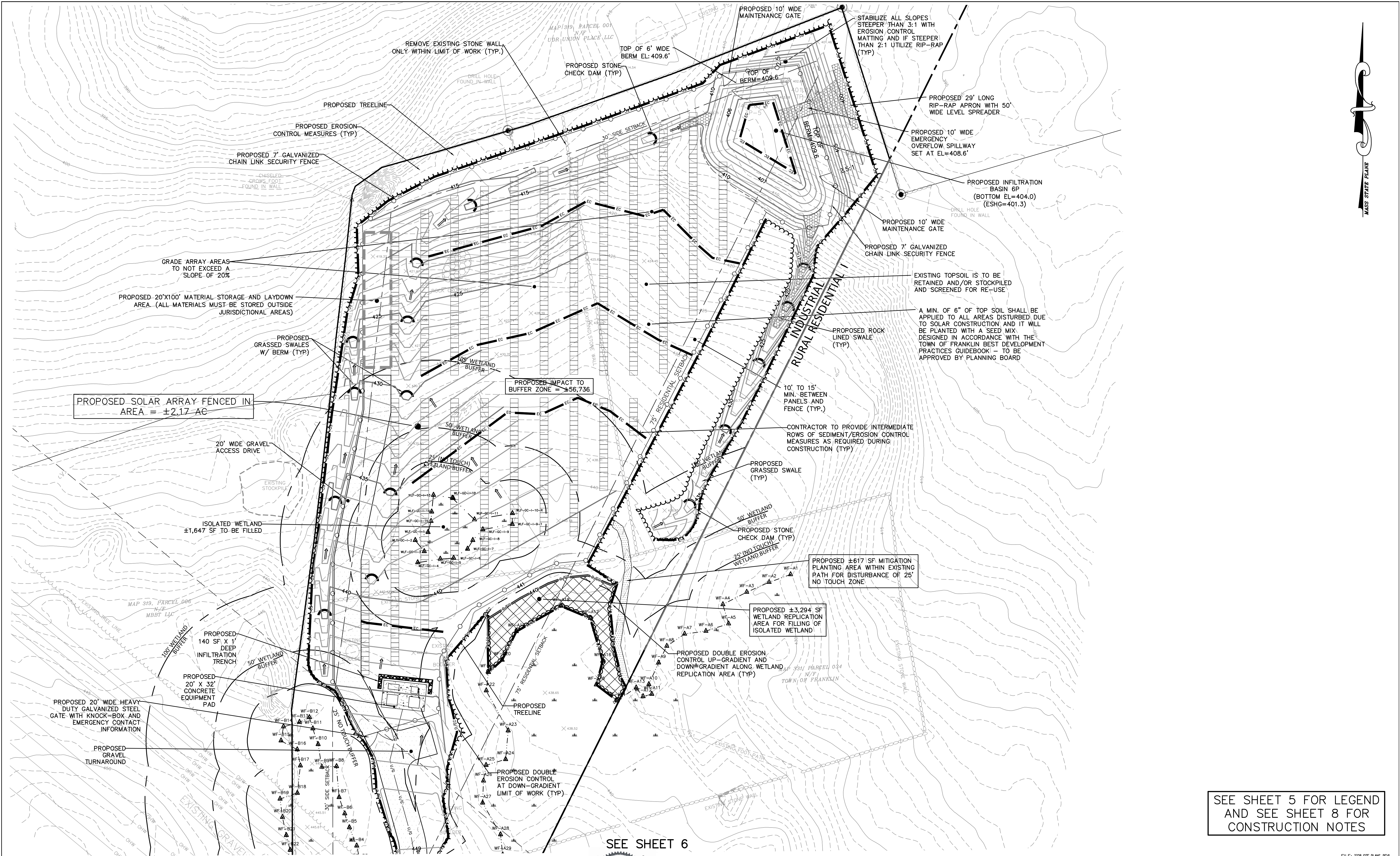
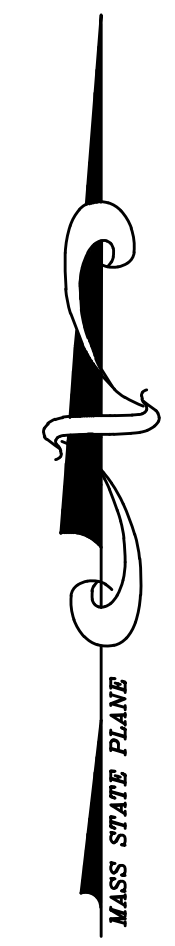
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DANA POINT, CA 92629

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

FILE: 3328 SITE PLANS-REV

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6	10
JOB NUMBER	3328.00



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

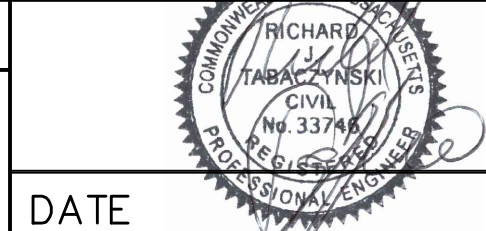
SEE SHEET 5 FOR LEGEND AND SEE SHEET 8 FOR CONSTRUCTION NOTES

SEE SHEET 6

Atlantic DESIGN ENGINEERS, INC.
 P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

Designed by : _____
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SCALE
 SCALE 1" = 30'
 0 15 30 45



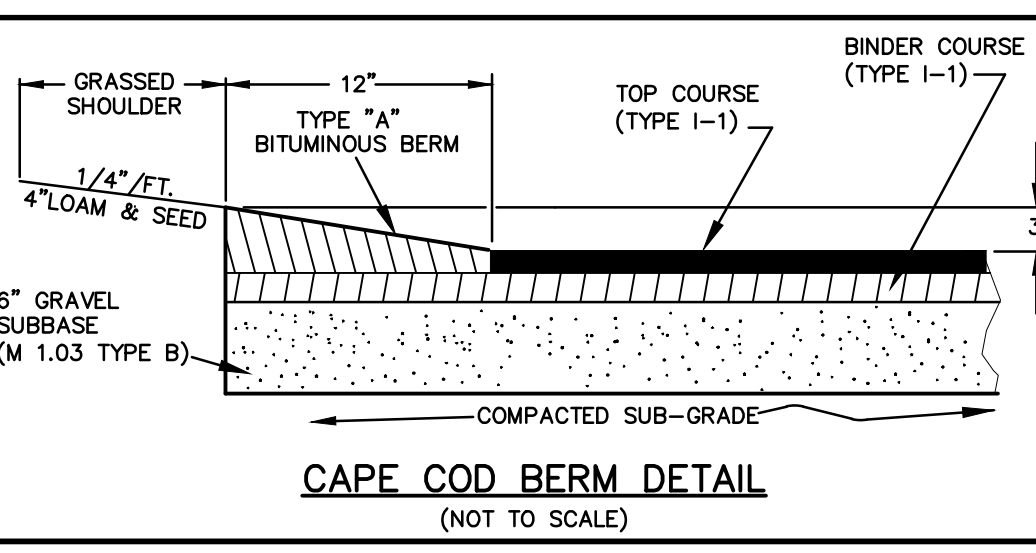
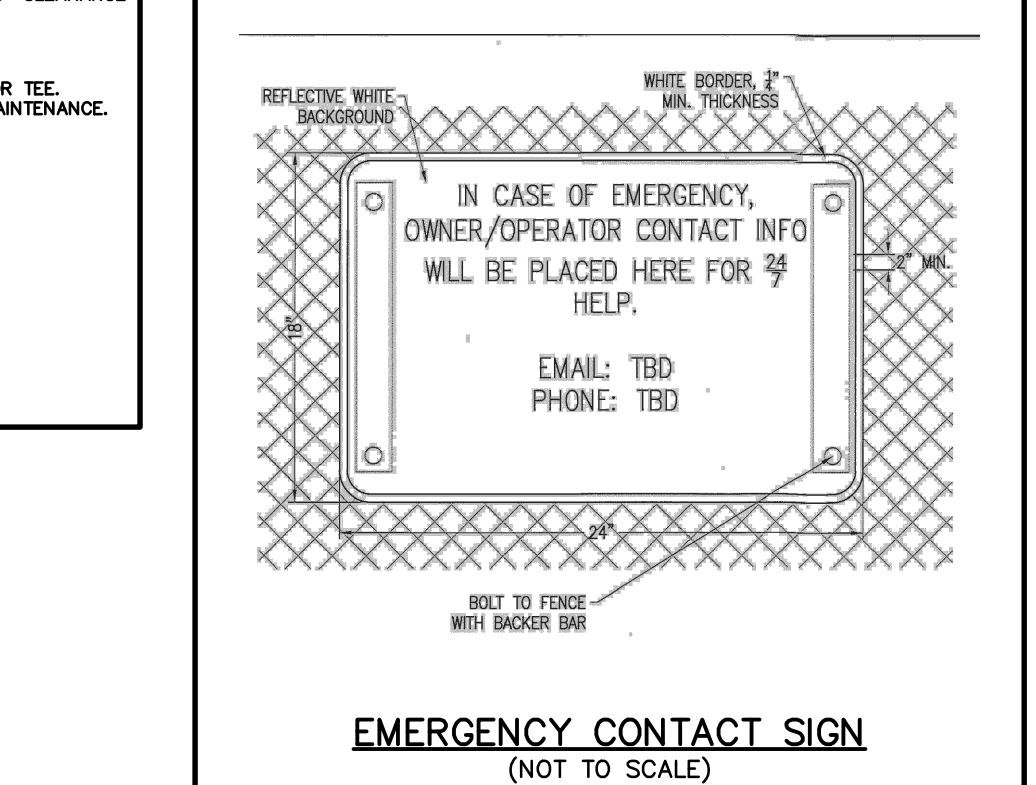
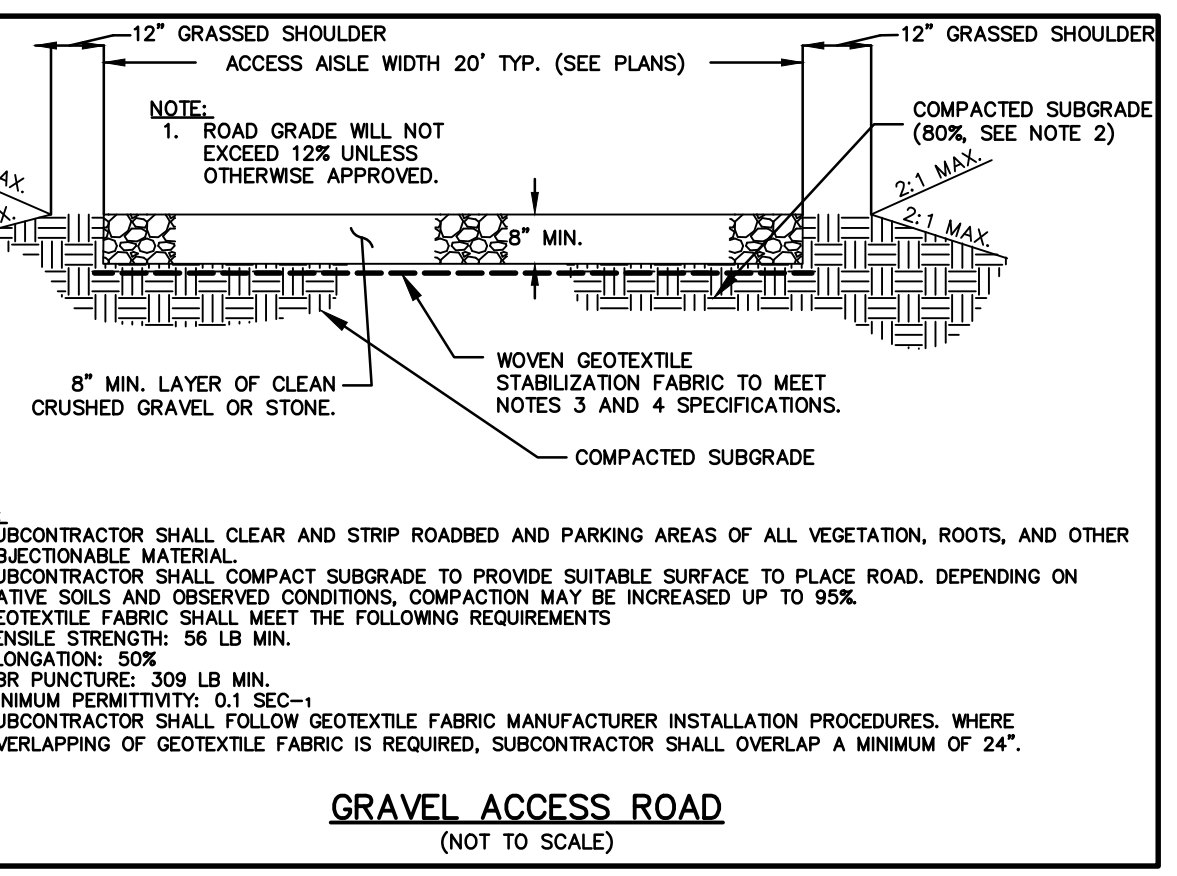
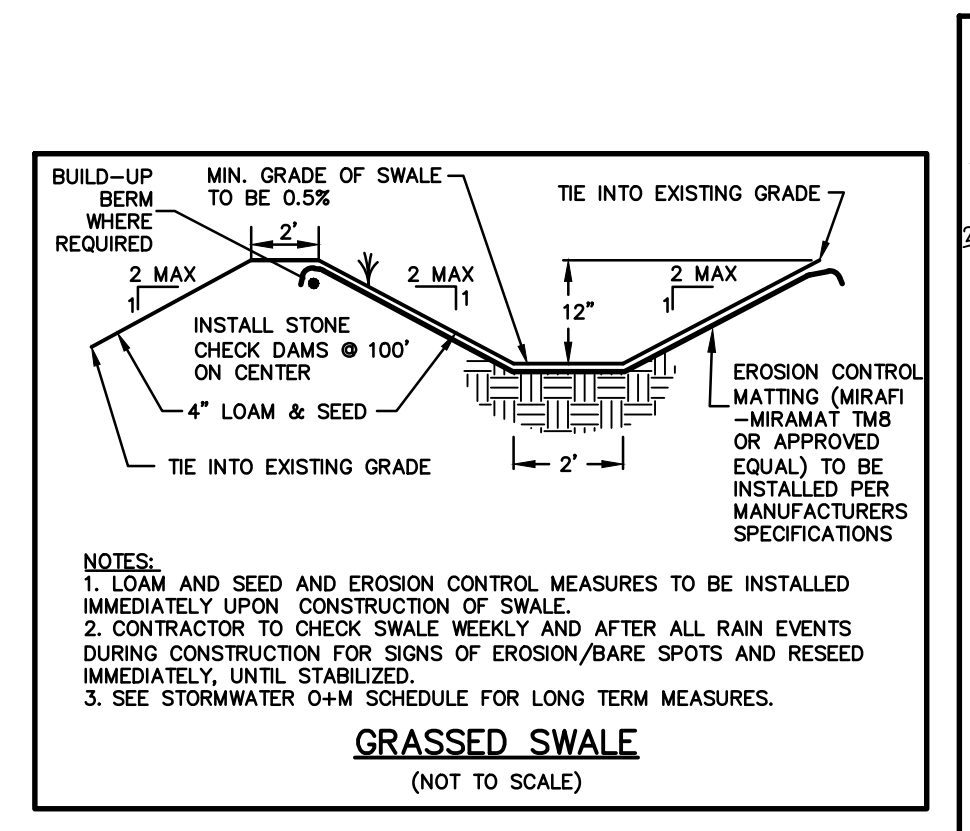
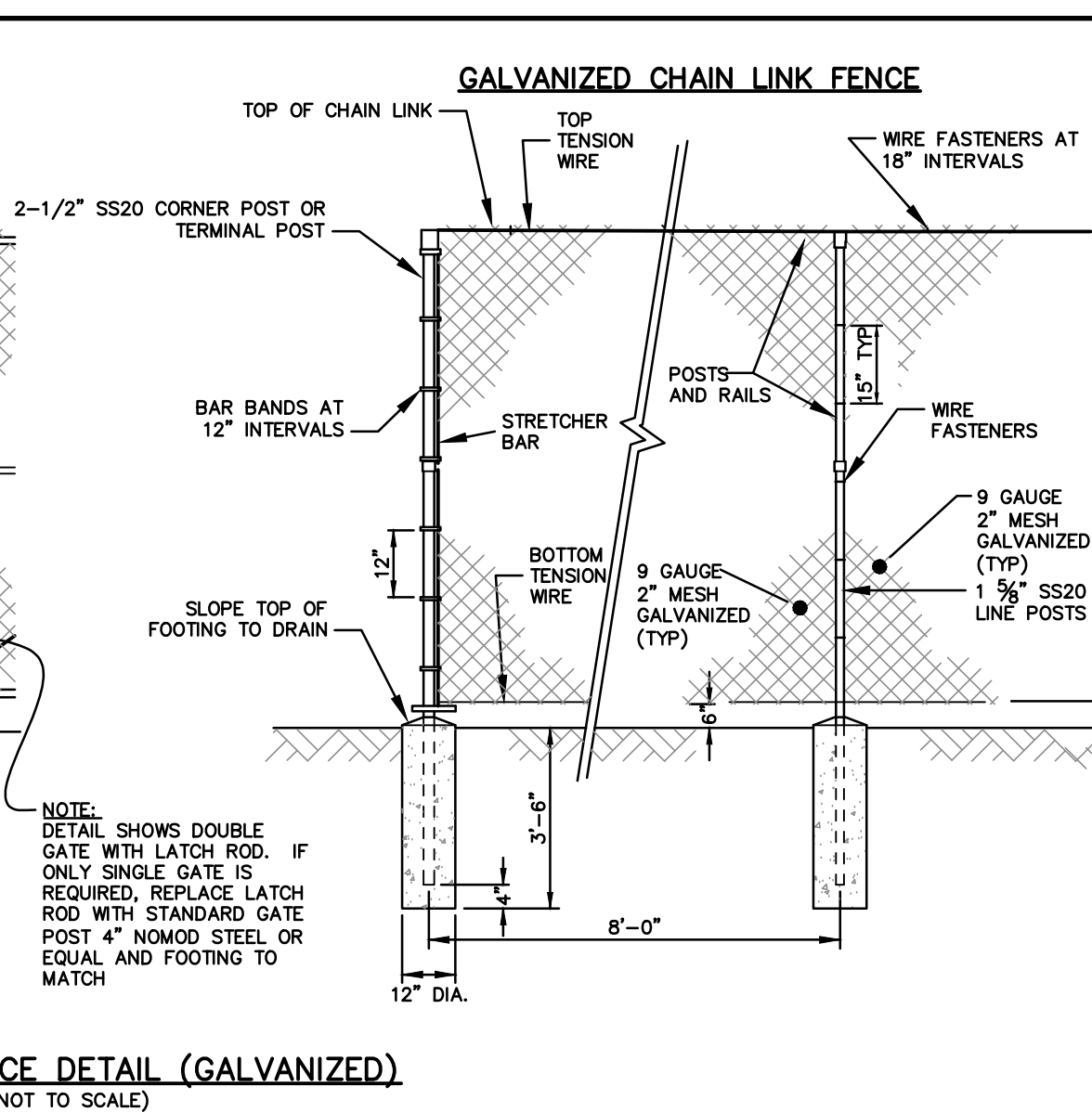
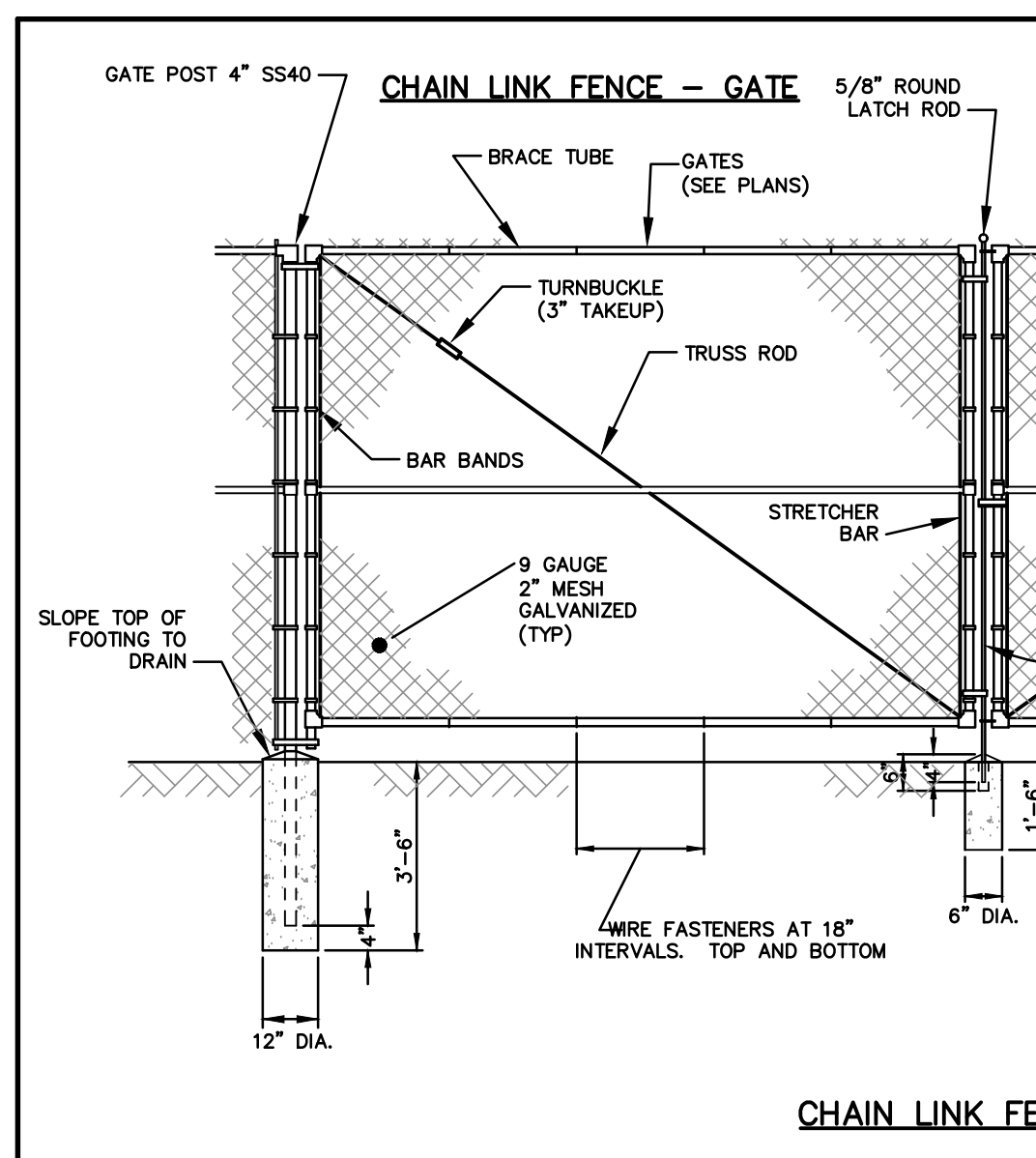
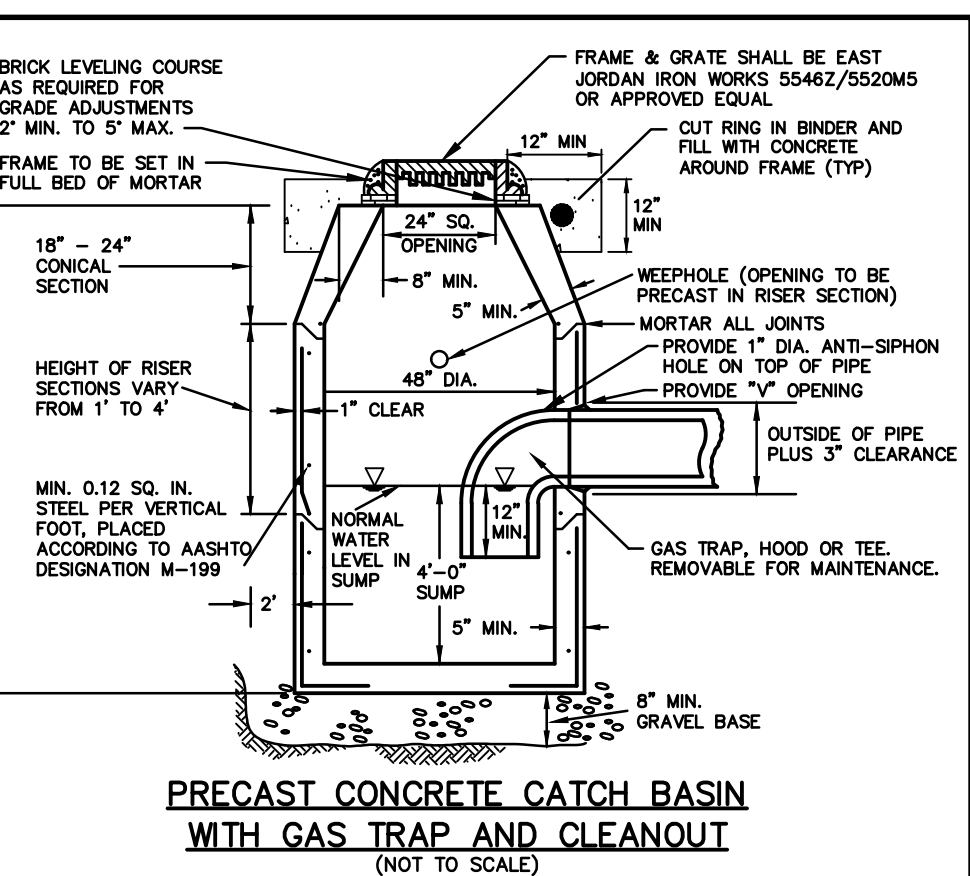
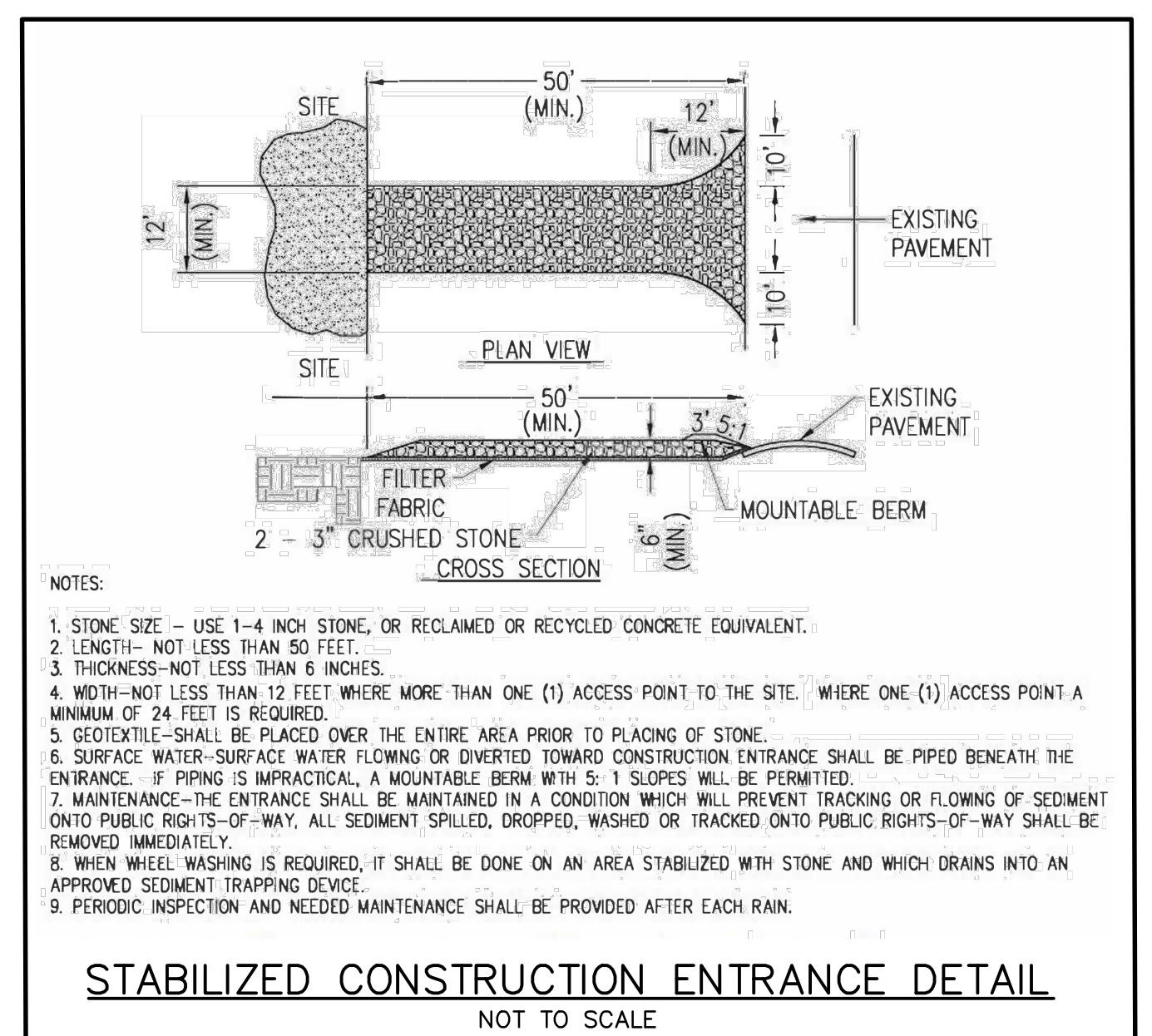
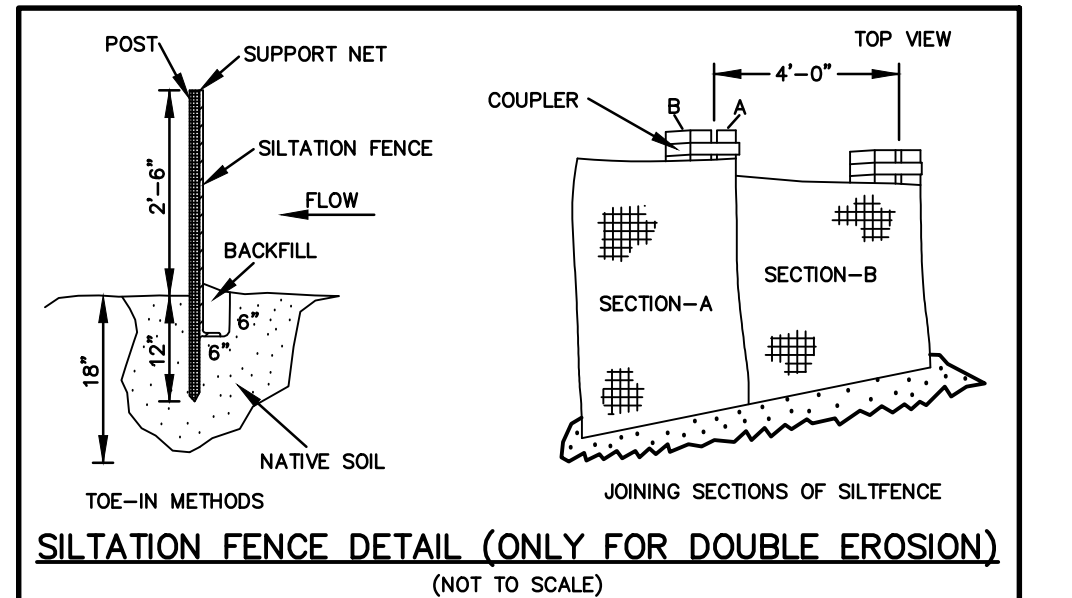
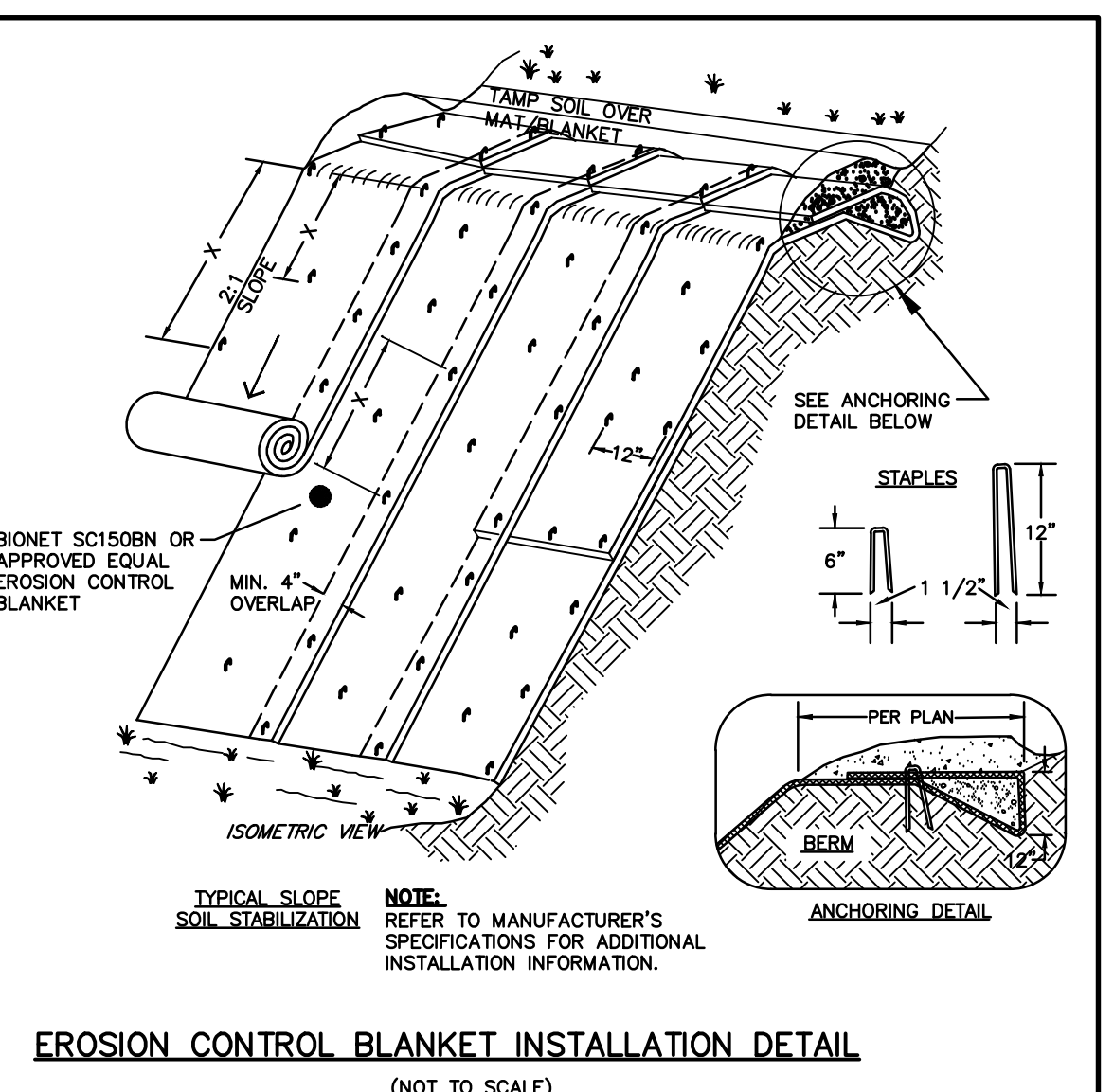
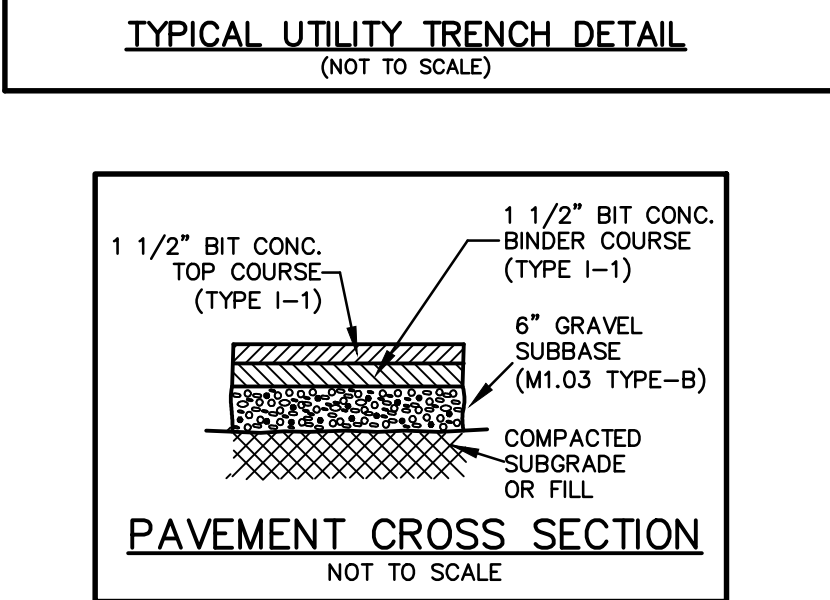
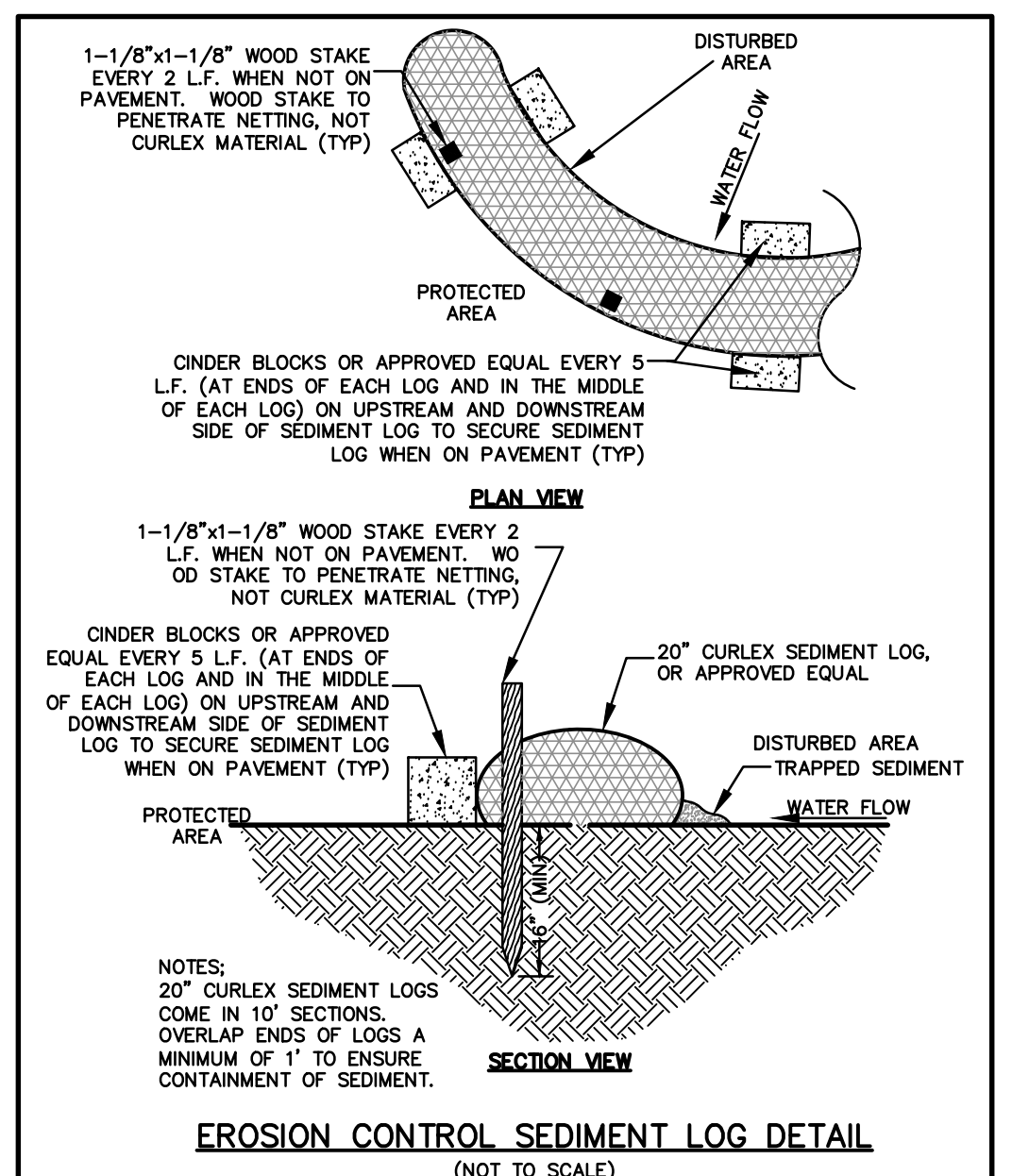
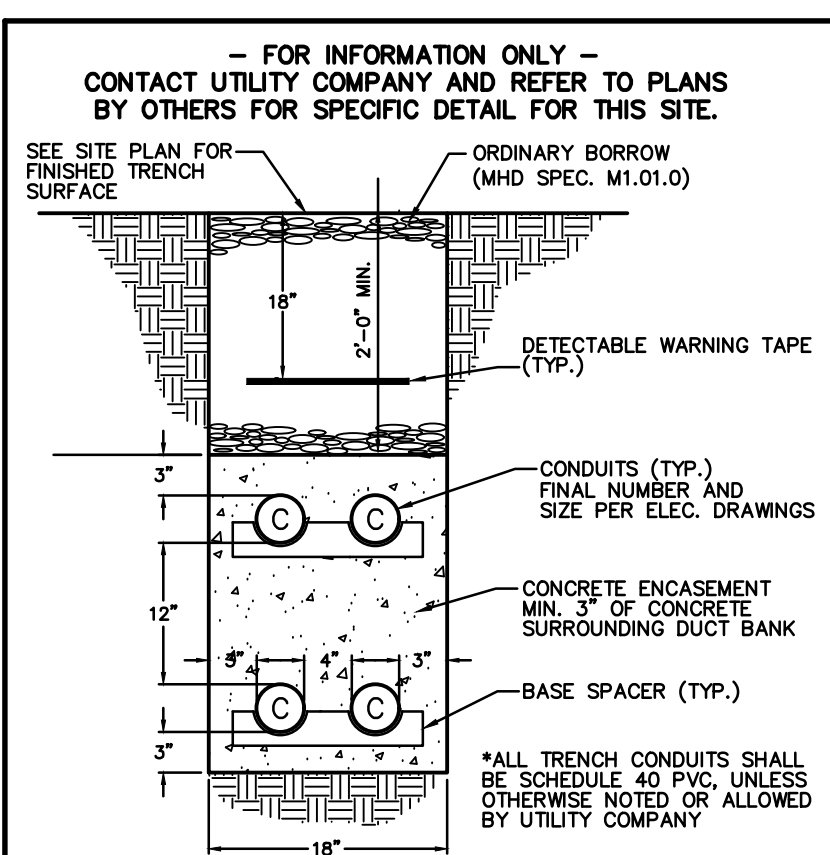
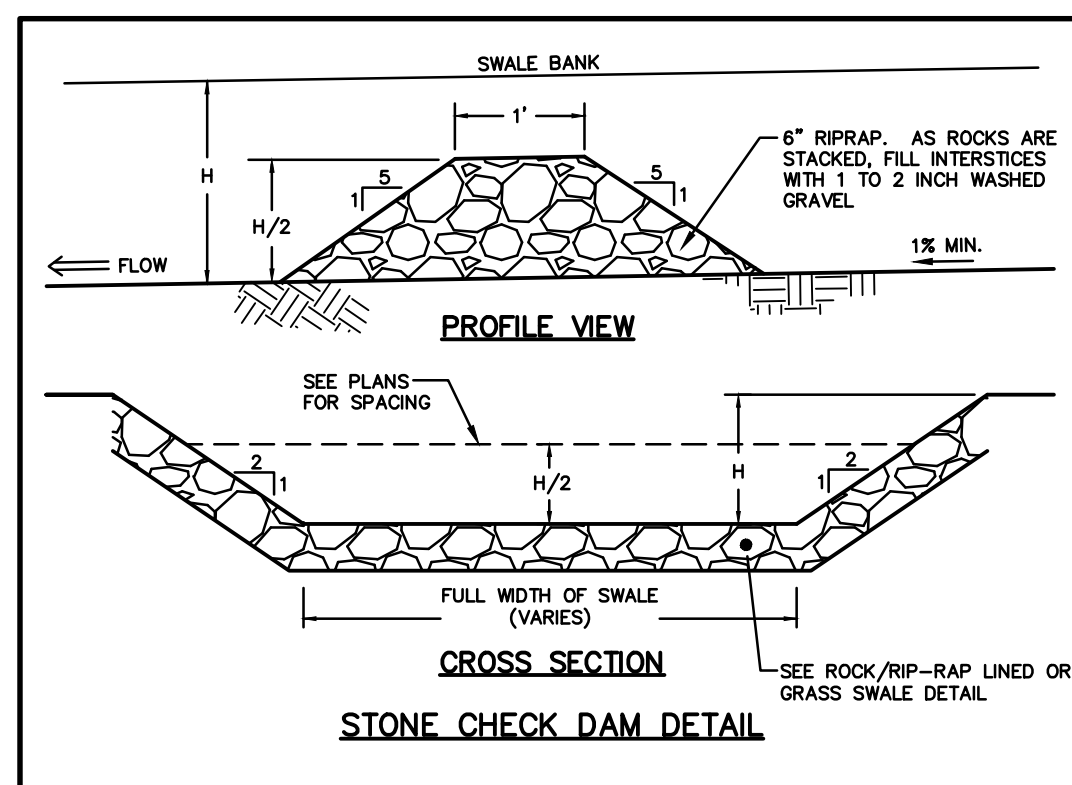
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 24941 DANA POINT HARBOR
 DANA POINT, CA 92629

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

FILE: 3328 SITE PLANS-REV

Sheet	of
7	10
JOB NUMBER	
3328.00	



EROSION CONTROL NOTES:

- PRIOR TO COMMENCING SITE WORK OR EARTHWORK OPERATIONS, INSTALL EROSION CONTROL BARRIERS AT DOWN GRADIENT LIMITS OF WORK AND AT INTERIM LOCATIONS WITHIN ARRAY AS SHOWN ON THE SITE PLANS TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE LOADED AND SEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
- ALL MATERIALS AND STOCKPILES SHALL BE STORED ON LEVEL AREAS OUTSIDE OF ANY FLOOD ZONES, WETLANDS OR BUFFER ZONE AREAS. STOCKPILES SHALL BE SURROUNDED BY SEDIMENTATION CONTROL DEVICES AND EROSION CONTROL BARRIERS PER PLANS. SHALL HAVE SIDE SLOPES NO GREATER THAN 3:1 AND SHALL BE SEEDED OR STABILIZED IF LEFT UNDISTURBED FOR TWO WEEKS OR MORE.
- SEDIMENTATION CONTROL DEVICES AND EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND MAINTAINED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION AND PROMPTLY AFTER EACH RAINFALL.
- ANY SLOPE STEEPER AND 3:1 SHALL BE EQUIPPED WITH SLOPE STABILIZATION FABRIC OF EROSION CONTROL MATTING.
- ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTITUTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND/OR THE TOWN. THE CONTRACTOR MUST REPAIR OR RE-SEED ANY AREAS THAT DO NOT DEVELOP WITHIN A PERIOD OF ONE YEAR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- MATERIAL STOCKPILES SHALL NOT BE LOCATED WITHIN THE PATH OF EXISTING OR PROPOSED WATERCOURSES (BOTH TEMPORARY OR PERMANENT) OR THOSE AREAS SUBJECT TO STORM WATER FLOW.
- SEDIMENT CONTROL DEVICES AND EROSION CONTROL BARRIERS MAY BE REMOVED ONLY AFTER THE SITE HAS BEEN STABILIZED.
- ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION, WHICH REMAIN DISTURBED BUT INACTIVE FOR AT LEAST THIRTY DAYS, SHALL RECEIVE TEMPORARY SEEDING IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL REGULATIONS. IN ALL CASES, STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL REGULATIONS.
- EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED AWAY FROM ADJUTING STRUCTURES, PROPERTY, ETC.
- THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES EXTRA SEDIMENTATION CONTROL DEVICES AND EROSION CONTROL BARRIERS FOR INSTALLATION AT THE DIRECTION OF THE ENGINEERS OR THE TOWN TO MITIGATE ANY EMERGENCY CONTROL.
- REFER TO CONSTRUCTION DETAILS FOR ADDITIONAL EROSION CONTROL MEASURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE Siting, RELOCATION AND AUGMENTATION OF EROSION CONTROL DEVICES AS THE PROJECT PROGRESSES AND THE SITE DRAINAGE CONDITIONS CHANGE.
- THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED SOIL. EFFORTS SHALL BE MADE TO LIMIT THE TIME OF EXPOSURE OF DISTURBED AREAS. SEE STABILIZATION DEADLINES.

DUST CONTROL NOTES:

- THE CONTRACTOR SHALL TAKE STEPS TO MINIMIZE THE AMOUNT OF DUST GENERATED ON THE SITE, AND ENSURE THE SITE IS IN CONFORMANCE WITH THE DEP AIR POLLUTION CONTROL REGULATIONS, 310 CMR 7.09.
- DUST CONTROL MEASURES SHOULD BE IMPLEMENTED AS NEEDED DURING ALL SITE GRADING ACTIVITIES AND PARTICULARLY DURING WINDY CONDITIONS.
- WATER SHALL BE APPLIED UNTIL THE SURFACE IS WET AND REPEAT AS NEEDED. WATER SHALL BE APPLIED AT RATES SO THAT RUNOFF, CHANNELING, OR EROSION DOES NOT OCCUR.
- OTHER POTENTIAL WETTING AND/OR DUST CONTROL AGENTS MAY BE PROPOSED FOR USE BY THE CONTRACTOR AND MUST BE APPROVED BY THE TOWN PRIOR TO USE ON SITE.
- WHEEL AND TRUCK WASHES SHALL BE USED AT SITE EGRESS AS NEEDED.
- ALL TRUCKS LEAVING THE SITE WHICH HAVE BEEN LOADED WITH SOIL OR DUST-PRODUCING MATERIAL SHALL BE TARPED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- ALL PAVED SURFACES AND ROADWAYS (WITHIN 500 FEET OF THE SITE) ON WHICH EQUIPMENT AND TRUCK TRAFFIC ENTER AND LEAVE THE CONSTRUCTION AREA SHALL BE SWEEP AND/OR WATERED AS NEEDED.
- WIND SCREENS, WIND FENCES, SILT FENCE OR SIMILAR BARRIERS SHALL BE IMPLEMENTED AS NEEDED AND PLACED AT INTERVALS OF ABOUT 10 TO 15 TIMES THE BARRIER HEIGHT.
- ALL CLEARING, GRADING, EARTHMOVING, AND EXCAVATING ACTIVITIES SHALL BE SUSPENDED DURING PERIODS OF SUSTAINED STRONG WINDS (HOURLY AVERAGE WIND SPEEDS OF 25 MPH OR GREATER).

STABILIZATION DEADLINES

- (IN ACCORDANCE WITH THE EPA 2022 CONSTRUCTION GENERAL PERMIT)
- INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY IN ANY AREAS OF EXPOSED SOIL WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS; AND
 - COMPLETE THE INSTALLATION OF STABILIZATION MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED.
- IF DISTURBANCE IS MORE THAN 5 ACRES AT A TIME:
- COMPLETE THE INSTALLATION OF STABILIZATION MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED.

CONSTRUCTION NOTES:

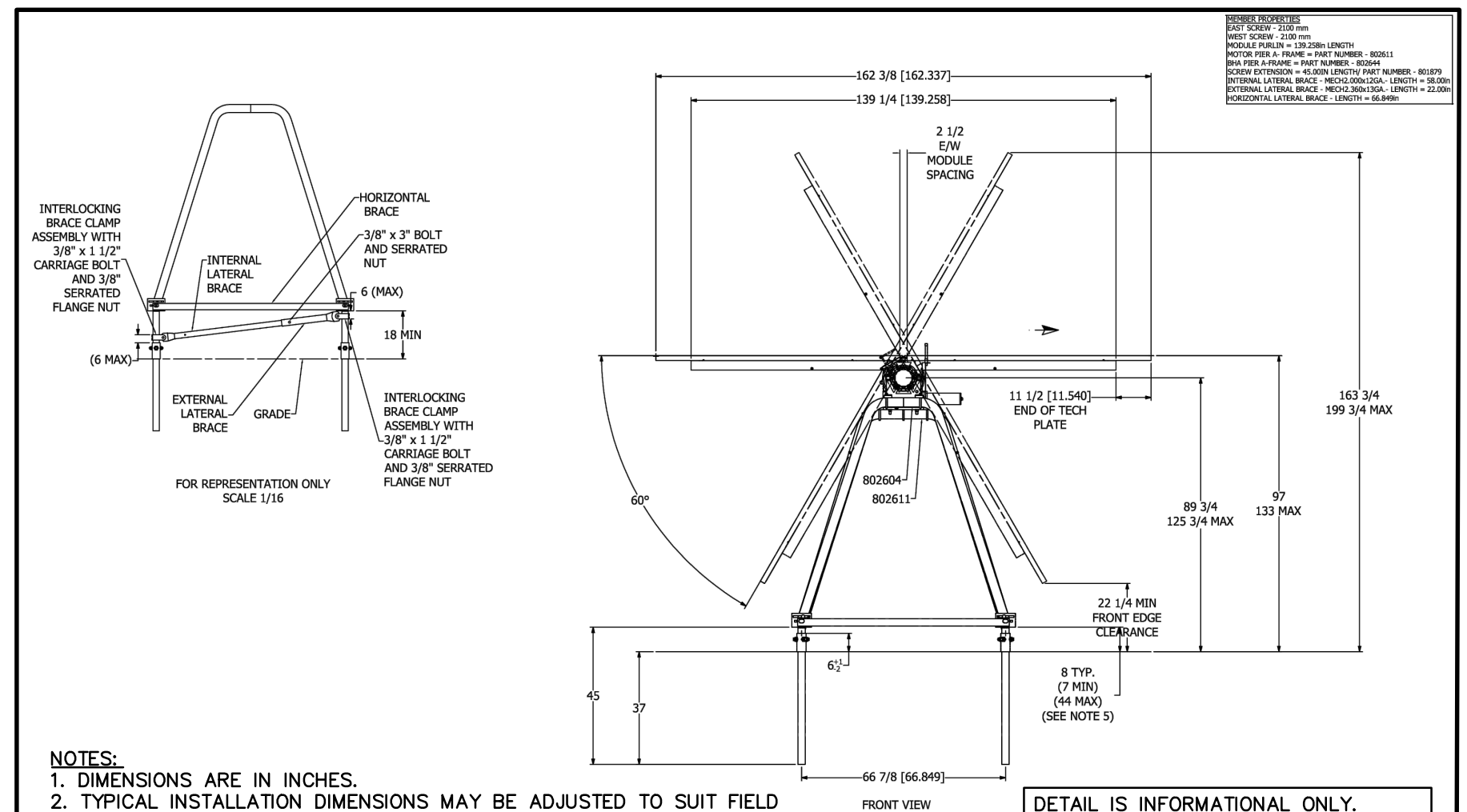
- THE PROPERTY LINES AND EXISTING CONDITIONS SHOWN HEREON, ARE COMPILED FROM THE RECORD PLAN (PARCEL A-PLAN NUMBER 624 OF 1995 IN PLAN BOOK 433) AND DEED (BOOK 31878 PAGE 107) AND ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS SHOWN AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MAY BE FOUND IN THE PLAN.
- CONTRACTOR SHALL VERIFY ALL CRITICAL ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
- WHERE AN EXISTING PUBLIC UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED AND THE INFORMATION FURNISHED TO THE UTILITY COMPANY AND OWNER FOR RESOLUTION OF THE CONFLICT.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONDUITS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS SITE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DISAFA, THE TOWN OF FRANKLIN DEPARTMENT OF PUBLIC WORKS, AND ALL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION ACTIVITIES FOR LOCATION OF ALL UNDERGROUND UTILITIES AND UTILITY COMPANY APPROVALS.
- ALL BUILDINGS, SURFACE, AND SUBSURFACE IMPROVEMENTS ON AREAS ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN HEREON.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND RIM AND INVERTS BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENTS OF ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES WITH THE UTILITY COMPANY. IF NECESSARY, IF ANY INTERRUPTIONS IN SERVICE ARE NECESSARY TO ADJUTING PROPERTY OWNERS, A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND MASSACHUSETTS HIGHWAY DEPARTMENT REQUIREMENTS FOR ALL WORK WITHIN PUBLIC STREETS.
- CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES, INCLUDING WATER TRUCKS THROUGHOUT CONSTRUCTION UNTIL PAVING IS COMPLETED AND ALL SURFACES ARE STABILIZED. DUST CONTROL ADDITIVES SUCH AS CALCIUM CHLORIDE OR SODIUM CHLORIDE SHALL BE USED ONLY WITH PERMISSION FROM THE TOWN.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIRED INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY COMPANIES ARE COMPLETED PRIOR TO INSTALLATION, BACKFILLING, ANNOUNCED BUILDING POSSESSION, AND THE FINAL CONNECTION OF SERVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SURVEY CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE PROPOSED WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED.
- THE CONTRACTOR SHALL INSTITUTE AND MAINTAIN ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC DURING CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNS, FENCES, FLAGGERS, LIGHTING, POLICE DETAIL, AND ANY OTHER MEANS AS DIRECTED BY THE TOWN. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THE WORK. AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPROVED PERMITS AND WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
- EXISTING TOP SOIL IS TO BE RETAINED, STOCKPILED AND SCREENED FOR RE-USE.

CONSTRUCTION PERIOD STORMWATER OPERATION AND MAINTENANCE:

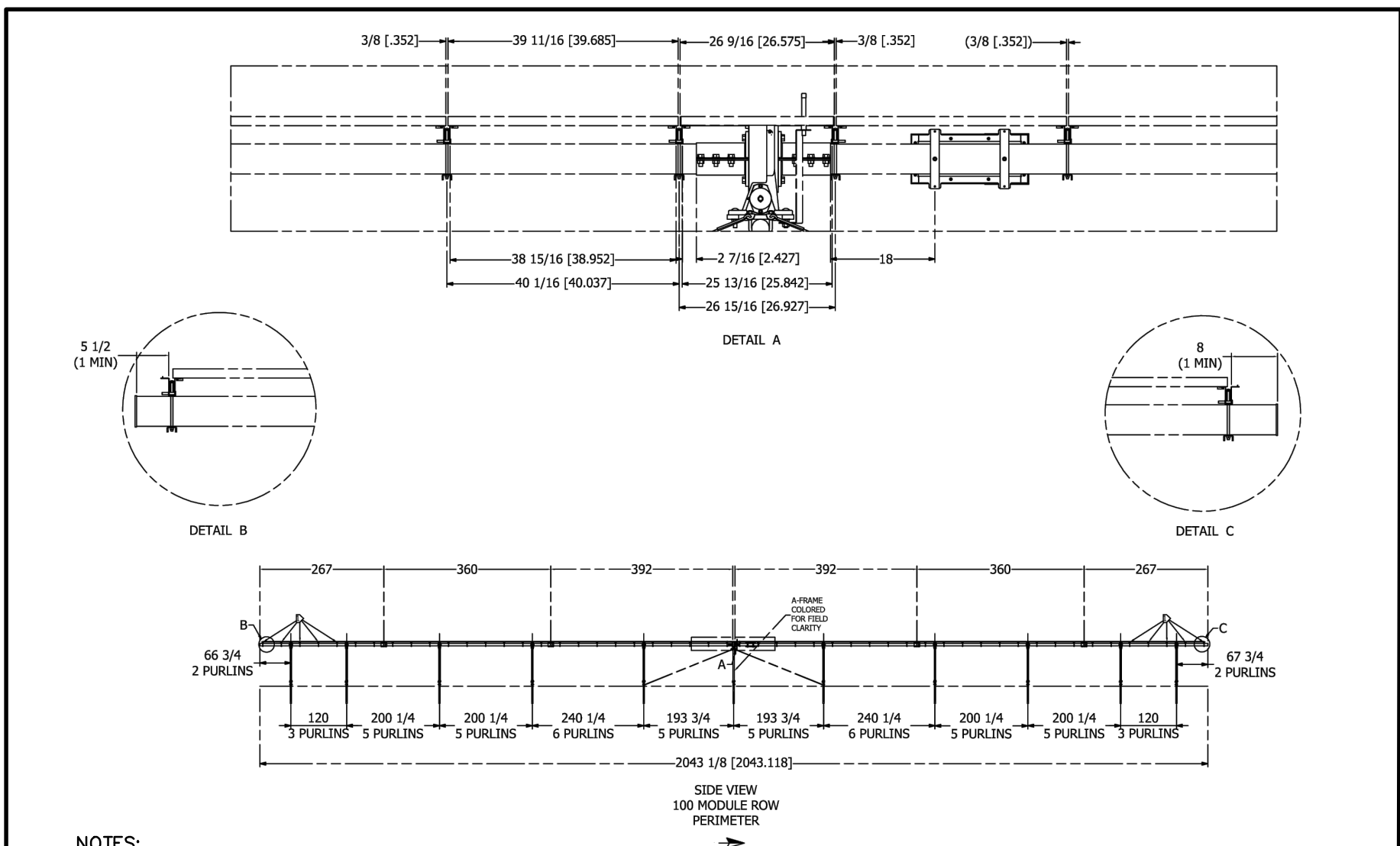
- SCHEDULE:**
- CONSTRUCTION ENTRANCE/TRACKING PAD: THE CONSTRUCTION ENTRANCE TRACKING PADS SHOULD BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE. THE ENTRANCE PAD SHOULD BE INSPECTED WEEKLY AT A MINIMUM. AFTER MAJOR STORM EVENTS (>0.25\"/>

CONSTRUCTION SEQUENCE

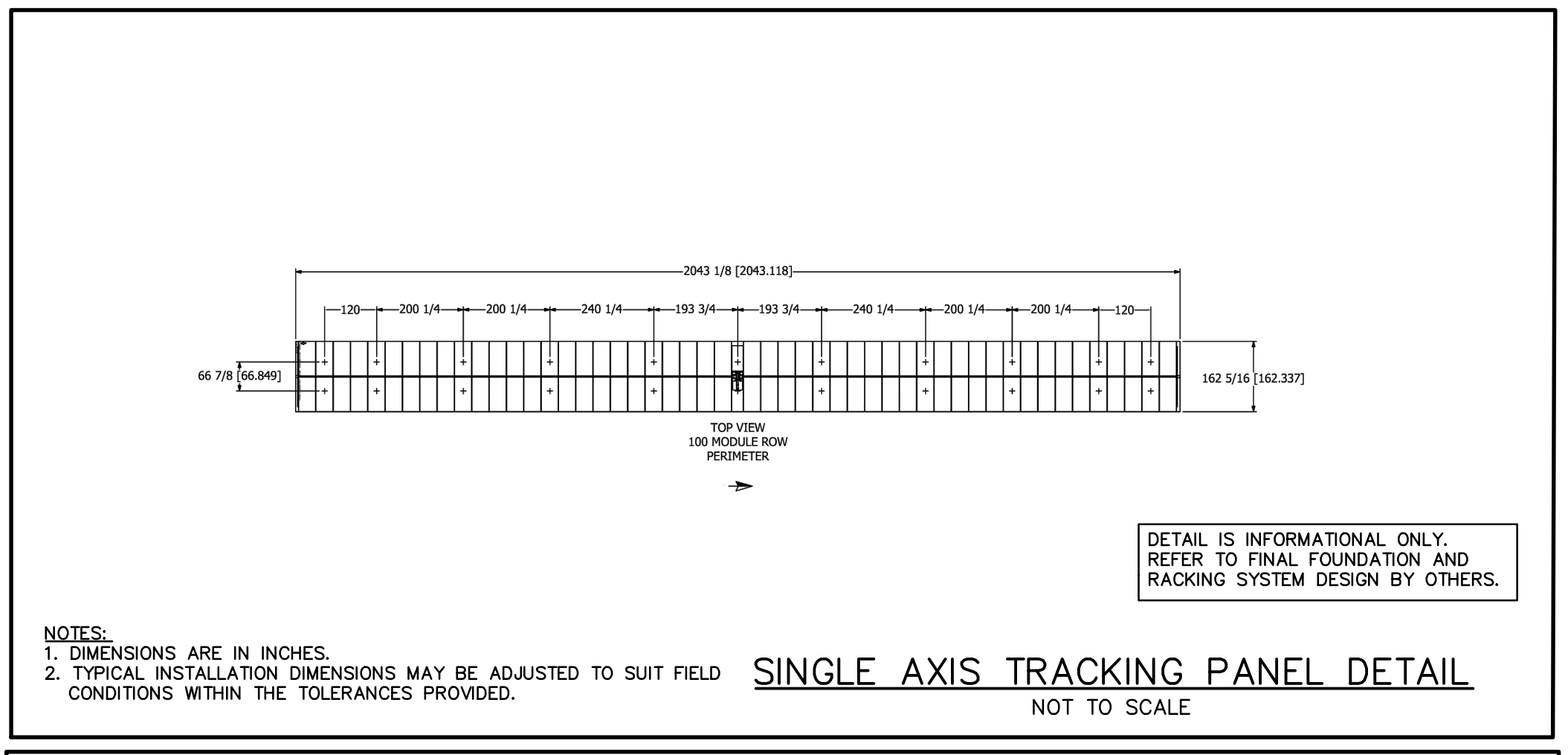
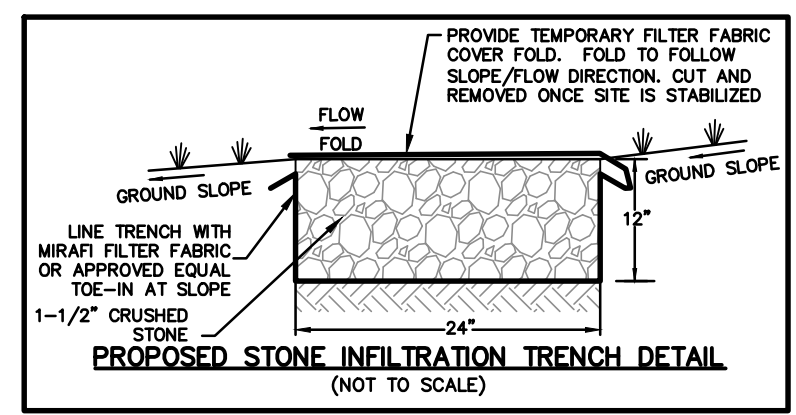
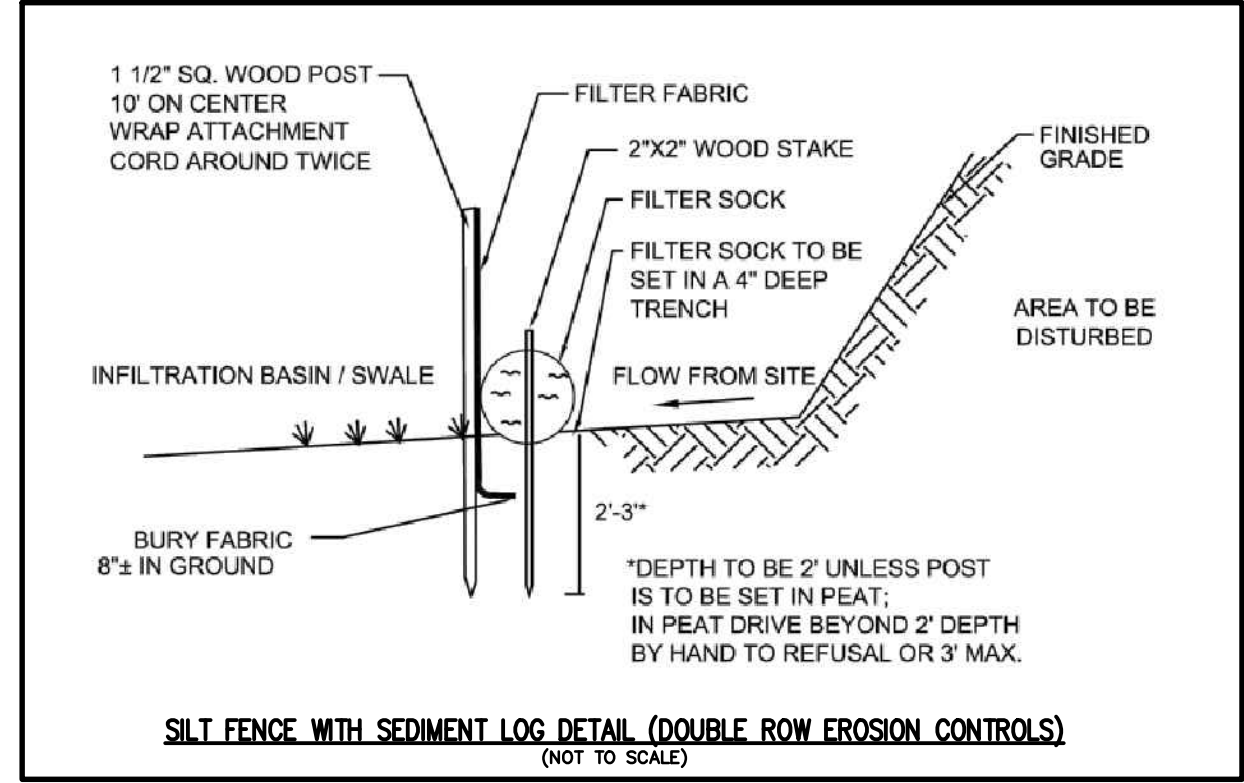
- IN CONJUNCTION WITH ANY SEQUENCE TO BE PROVIDED WITHIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), THE FOLLOWING GENERAL SEQUENCE OF CONSTRUCTION FOR THE SITE WORK IS AS FOLLOWS:
- STAKE LIMIT OF WORK/CLEARING TO DEFINE THE LIMIT OF WORK FOR THE ACCESS ROADS, SOLAR FIELD, UNDERGROUND UTILITY LINES, AND STORMWATER FACILITIES.
 - NOTIFY DIG-SAFE TO DEMARCATE ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
 - INSTALL EROSION CONTROL BARRIERS AT DOWN GRADIENT LIMITS OF WORK AND AT INTERIM LOCATIONS WITHIN ARRAY AS SHOWN ON THE SITE PLANS.
 - BEGIN CLEARING AND CHIPPING OF VEGETATION. A TEMPORARY ACCESS ROAD WILL BE CLEARED/INSTALLED TO ACCESS PROPOSED BASIN LOCATIONS. CLEARING WILL BE LIMITED TO A MANAGEABLE ACREAGE WHILE TEMPORARY SEDIMENT BASINS ARE INSTALLED TO PREVENT SILTATION OF PERMANENT STORMWATER BASINS.
 - STOCKPILE WOOD CHIPS AS NEEDED IN PILES FOR FURTHER USE IN EROSION CONTROL AND SOIL STABILIZATION.
 - AT THE END OF EACH DAY OF CLEARING OPERATIONS, WALK SITE PERIMETER TO REPAIR ANY DAMAGED EROSION CONTROLS OR PERFORM ANY NECESSARY MAINTENANCE.
 - AT THE END OF EACH DAY, INSPECT ALL TEMPORARY STORMWATER FACILITIES AND REPAIR ANY DAMAGE AND PERFORM ANY NECESSARY MAINTENANCE.
 - INSTALL CONSTRUCTION ENTRANCE PAD AND SUBSURFACE DRAINAGE SYSTEM AS SHOWN ON THE SITE PLANS. MAINTAIN SILT SAC IN CATCH BASIN TO PREVENT SILTATION OF THE UNDERGROUND CHAMBER DURING CONSTRUCTION.
 - COMPLETE FINAL GRADING OF STORMWATER SWALES, WETLAND REPLICATION AREAS AND STORMWATER BASINS.
 - INSTALL CHECK DAMS AND RIP-RAP APRONS/SPILLWAYS.
 - STABILIZE ALL STORMWATER FACILITIES AND SLOPES WITH LOAM AND SEED AND EROSION CONTROL MEASURES AS REQUIRED.
 - INSTALL AND COMPACT GRAVEL ACCESS ROAD AND INTERIOR SITE ACCESS ROADS.
 - PREPARE CONTRACTOR STAGNG/LAYDOWN AREA FOR TEMPORARY PARKING, STORAGE, WHEEL WASH AREA, CONCRETE WASH-OUT, AND MOBILE FUELING AREAS.
 - STUMPS ARE TO BE GROUND WHERE NECESSARY AND USED FOR WOOD CHIP BERMS.
 - GRADING ACTIVITIES SHOULD BE AVOIDED DURING EXTREMELY WET CONDITIONS TO MINIMIZE SOIL COMPACTION, DEEP RUTTING, AND SOIL SMEARING.
 - IF NECESSARY, PROVIDE TEMPORARY PROTECTIVE MEASURES, WHICH MAY INCLUDE BARRIERS AND/OR SILT SACKS UNTIL SITE IS STABILIZED AND VEGETATED. INTERMEDIATE EROSION CONTROLS SHOULD BE INSTALLED PRIOR TO THE INSTALLATION OF THE SOLAR ARRAY RACKING SYSTEM.
 - USE DISKS, TILLERS, OR HARROWS TO BREAK UP THE SURFACE WHERE SOIL HAS BECOME COMPACTED DURING CONSTRUCTION ACTIVITIES IN ORDER TO CREATE Viable SEED BEDS.
 - INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY IN ANY AREAS OF EXPOSED SOIL MORE THAN FIVE ACRES WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. COMPLETE THE INSTALLATION OF MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED. OATS WILL BE USED FOR A SPRING OR SUMMER SEEDING, WINTER WHEAT FOR A FALL SEEDING. THIS COVER CROP WILL ESTABLISH QUICKLY, PROVIDING ADDITIONAL EROSION CONTROL THROUGHOUT CONSTRUCTION, ALONG WITH PROTECTION OF FINAL NATIVE VEGETATION DURING ITS ESTABLISHMENT PERIOD.
 - WORK INVOLVING FOUNDATION PILE DRIVING AND TRENCHING SHALL BE STAGED TO CONCENTRATE WORK IN PHASES, TO REDUCE SITE DISTURBANCE. SEED AND MULCH ANY DISTURBED AREAS AS THEY ARE COMPLETED.
 - ONCE SITE CONSTRUCTION IS COMPLETE, PERMANENT SEEDING WILL BE APPLIED BY BROADCASTING.
 - TO ASSURE RAPID STABILIZATION, SUPPLEMENT SEEDING FOR AREAS WHERE COVERAGE IS LESS THAN 70% UNIFORM COVER OF VEGETATION.
 - UNLESS DIRECTED OTHERWISE BY THE FRANKLIN CONSTRUCTION COMMISSION, ONCE THE SITE IS PERMANENTLY STABILIZED AT 70% UNIFORM COVER OF VEGETATION OR MORE, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
 - STAKE OUT PIER LOCATION FOR RACKING SYSTEM DRIVEN PIERS.
 - INSTALL UNDERGROUND UTILITIES (ELECTRIC) IN THE AREA OF THE SOLAR FIELD AND EQUIPMENT PADS LEADING TO THE FIRST CUSTOMER OWNED POLE LOCATION.
 - COMPLETE PAVING AND BERM AT ENTRANCE TO SITE.
 - STABILIZE ALL DISTURBED AREAS WITH LOAM AND SEED.
 - INSTALL PLANTINGS FOR WETLAND REPLICATION AND MITIGATION AREAS AS REQUIRED PER THE OGDARD CONSULTING INC. WETLAND REPLICATION PLAN AND HABITAT RESTORATION PLAN.
 - AFTER COMPLETION OF CONSTRUCTION THE SITE WILL BE INSPECTED FOR ANY REMAINING DEBRIS AND, IF FOUND, WILL BE CLEANED AND DISPOSED OF OFF-SITE. INSTALL PERIMETER FENCING, SIGNS, AND GATES.



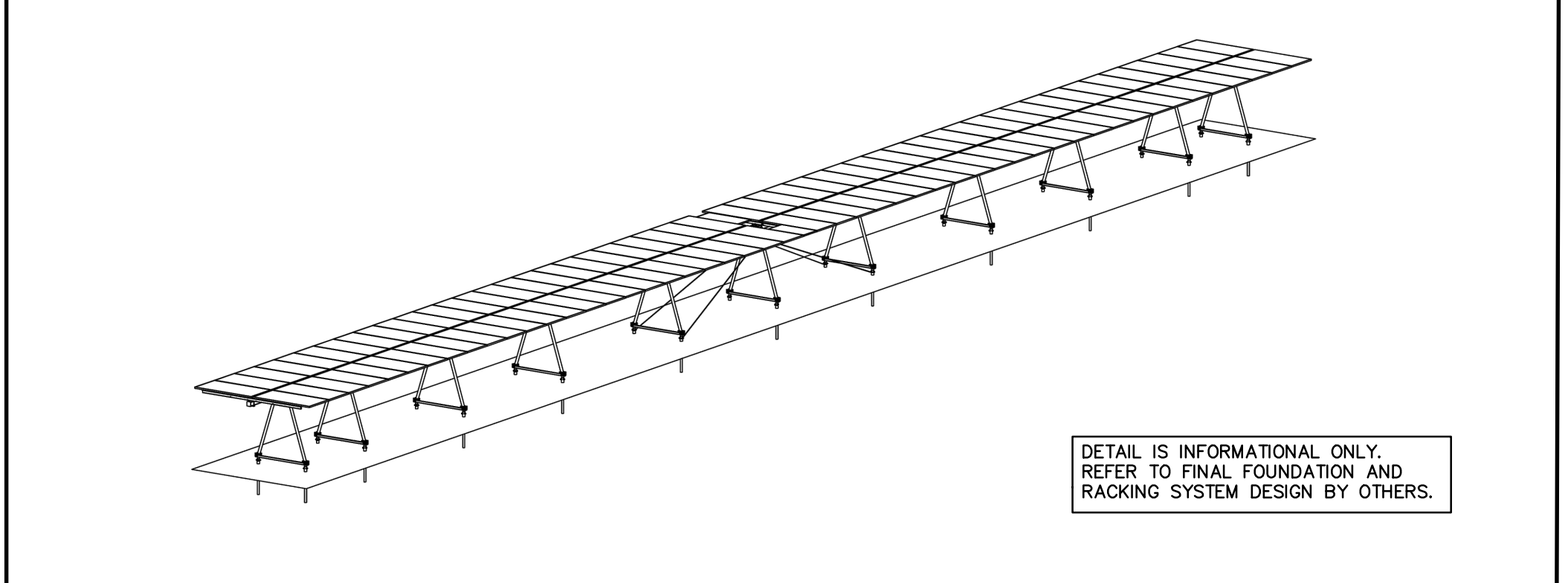
SINGLE AXIS TRACKING PANEL DETAIL
NOT TO SCALE



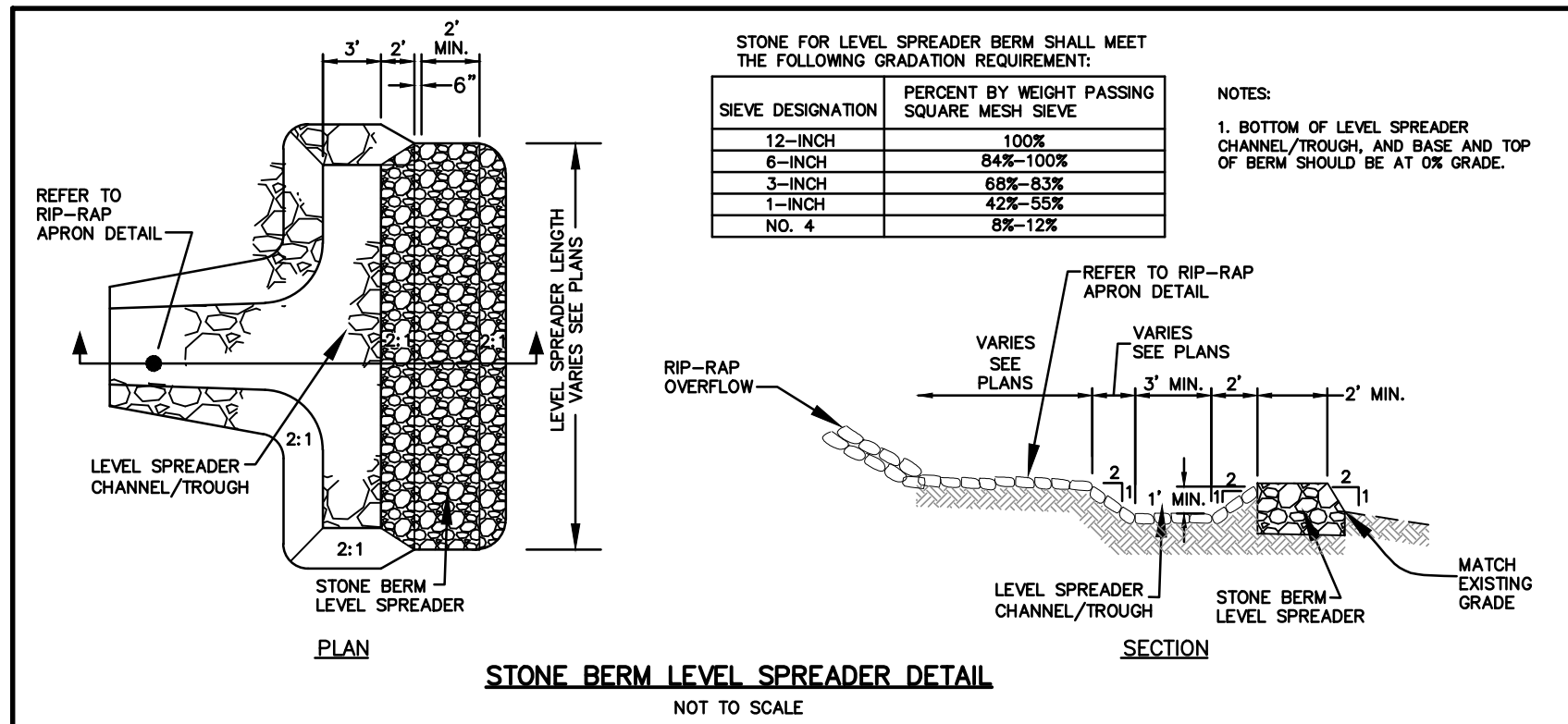
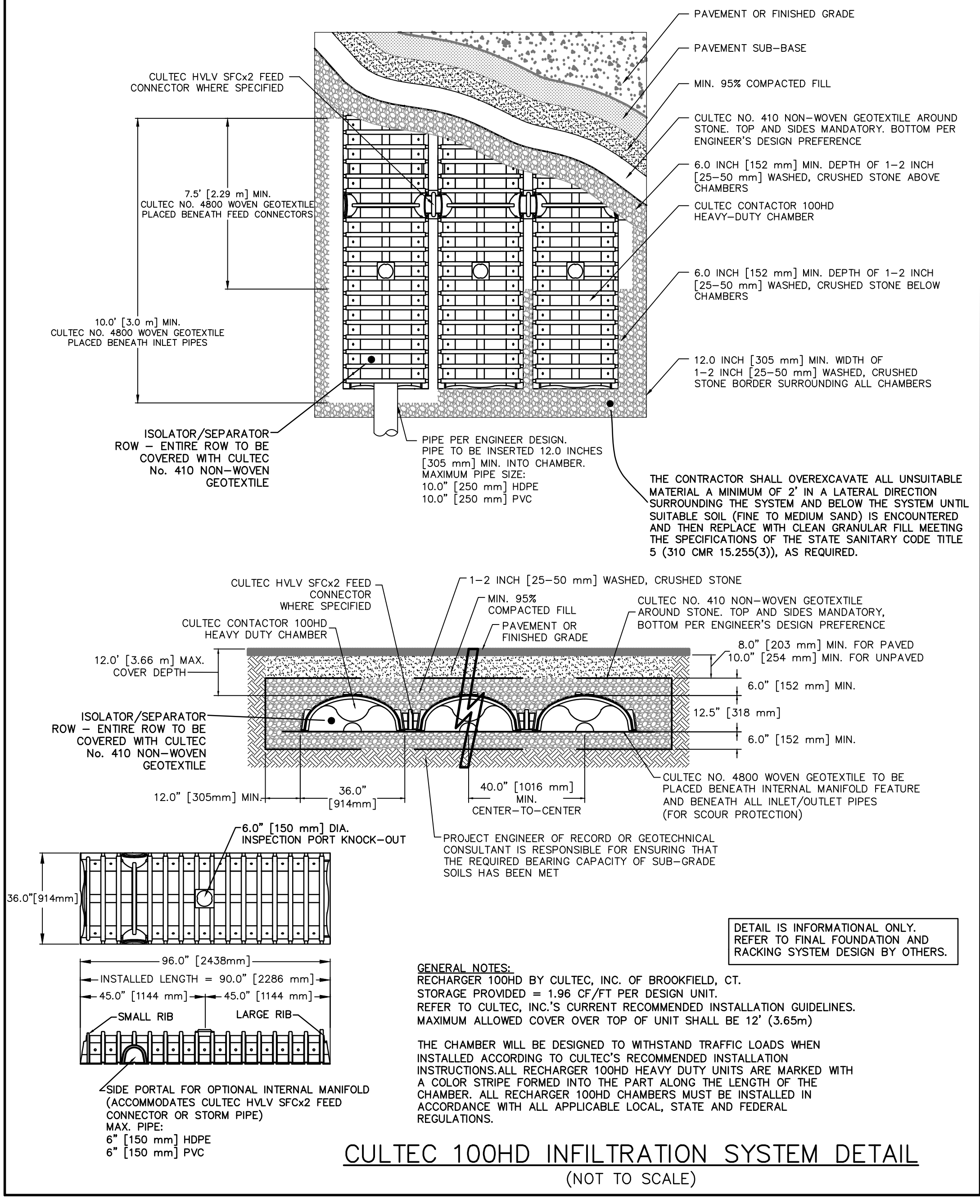
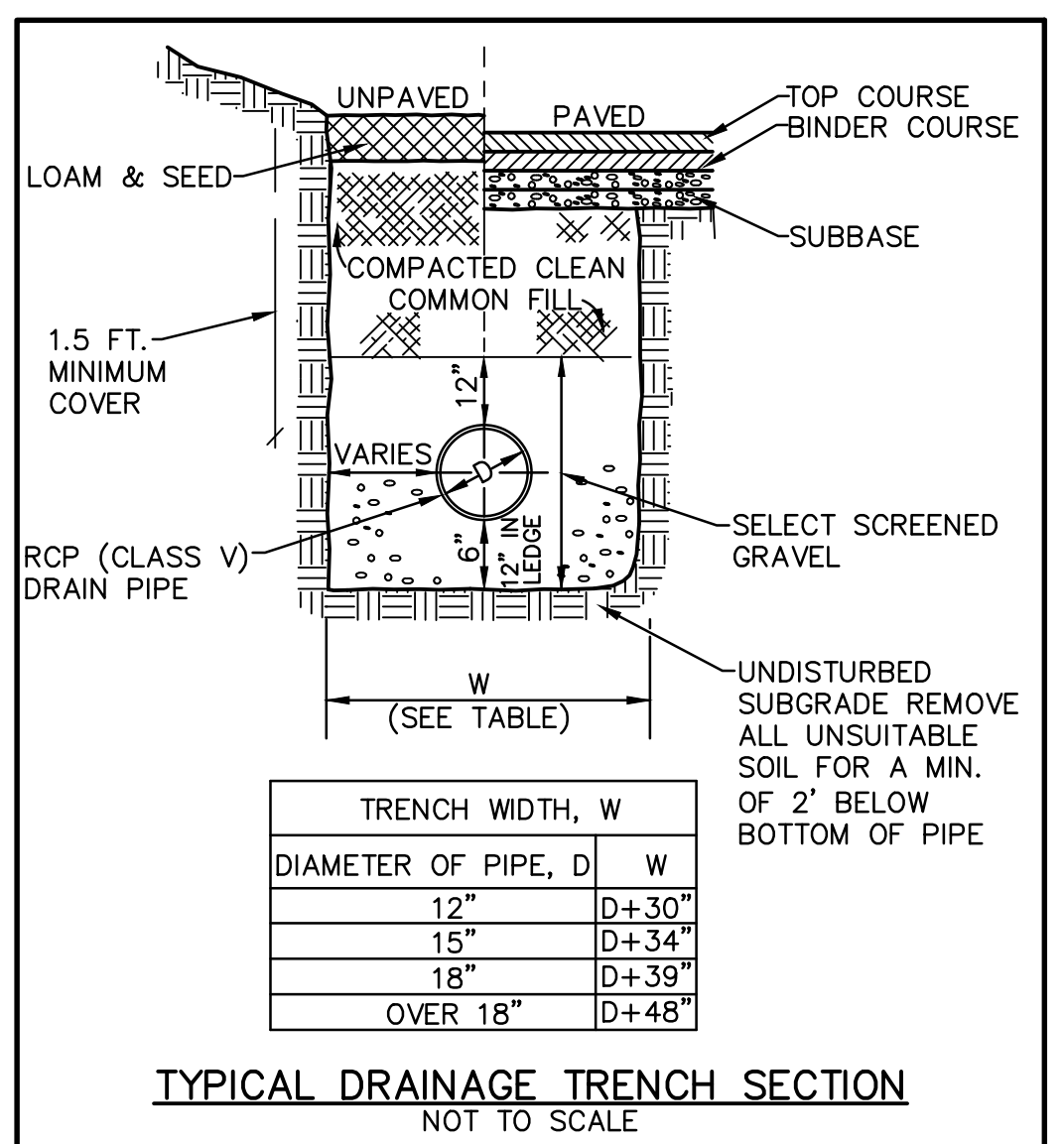
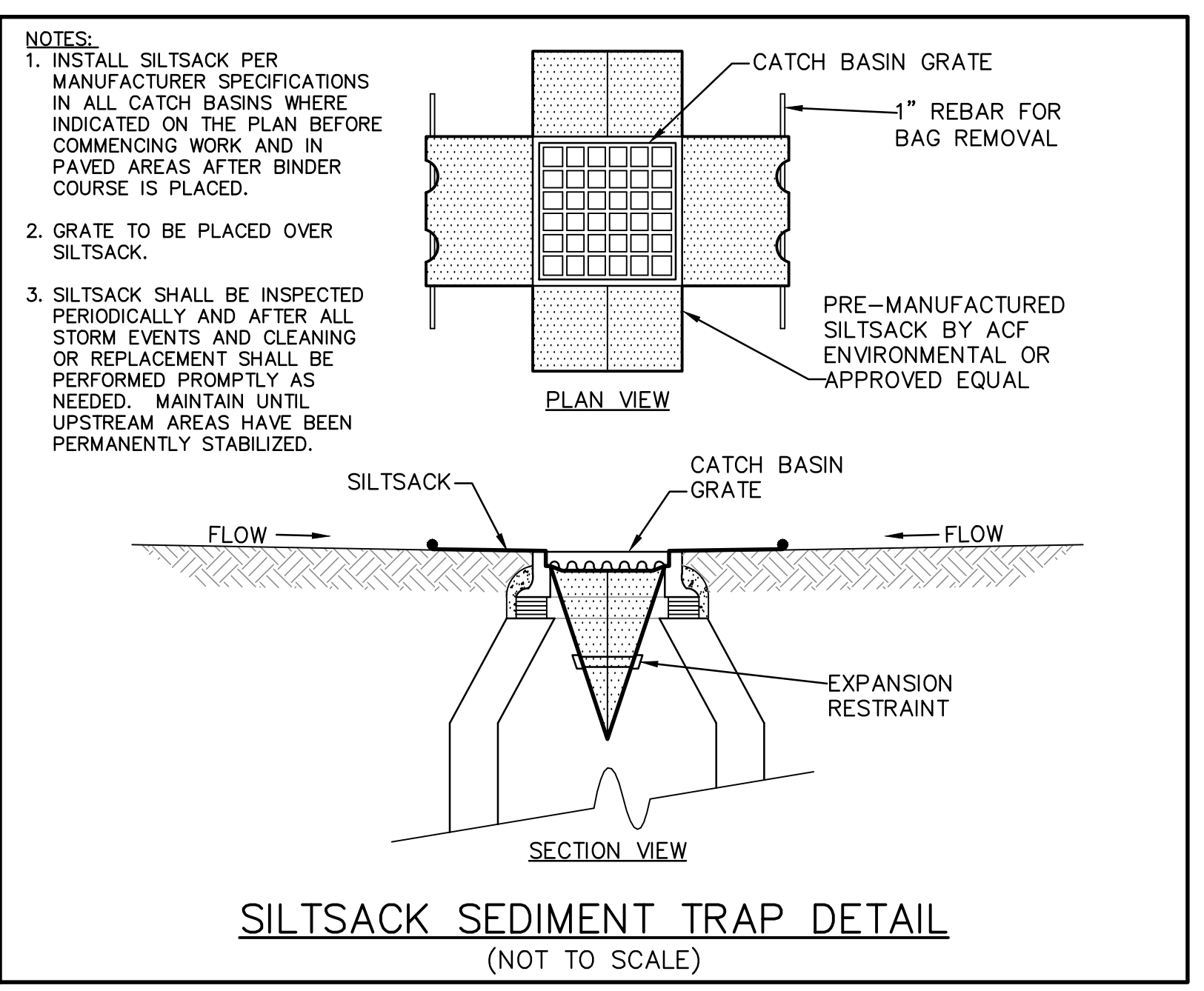
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NOT TO SCALE



SINGLE AXIS TRACKING PANEL DETAIL
NOT TO SCALE



SINGLE AXIS TRACKING PANEL DETAIL
NOT TO SCALE



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

