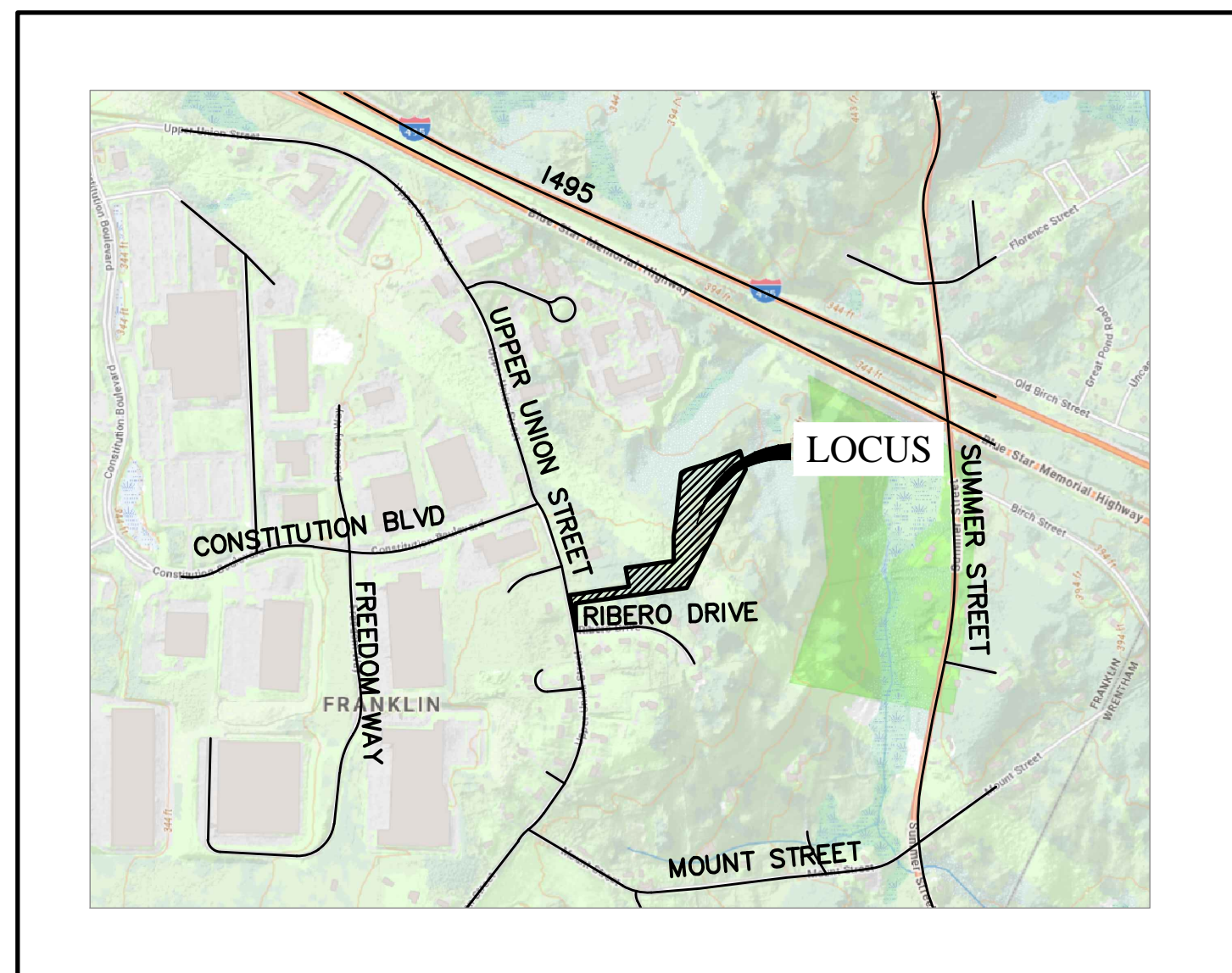


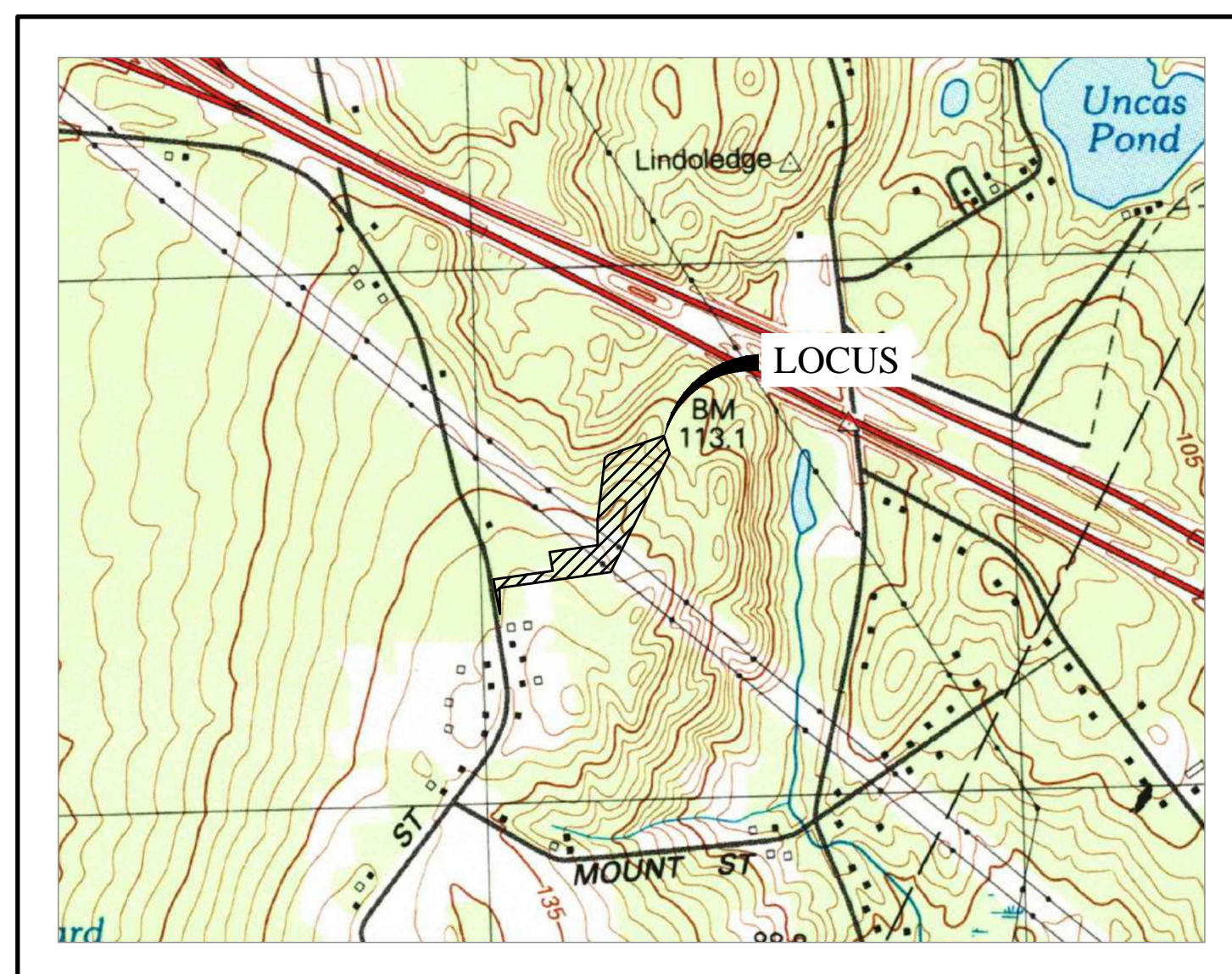
# SITE DEVELOPMENT PLANS FOR UPPER UNION SOLAR PROJECT

FRANKLIN, MASSACHUSETTS 02038

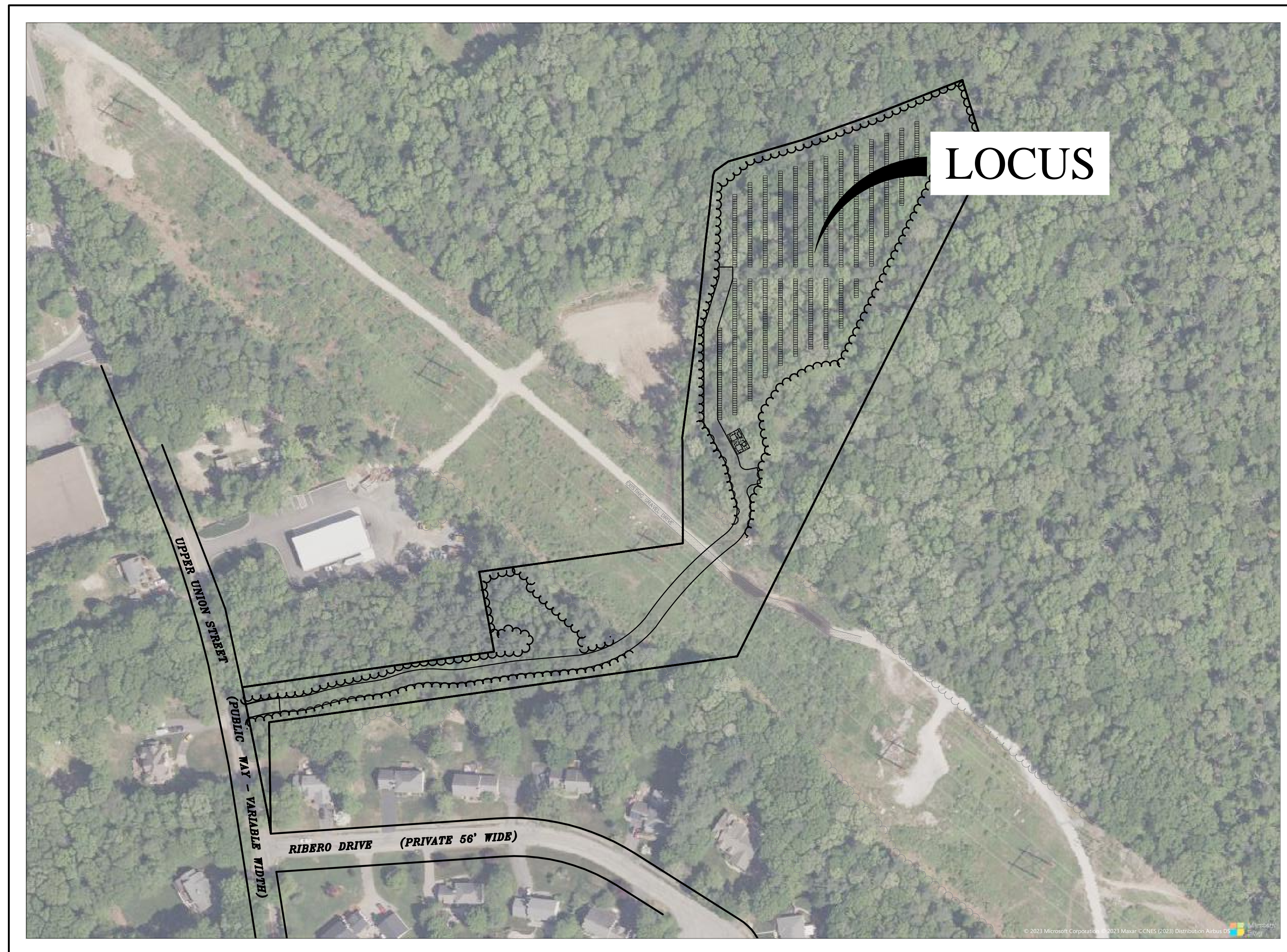
DATE: JUNE 20, 2023



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.

**OWNER:**

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

**APPLICANT:**

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

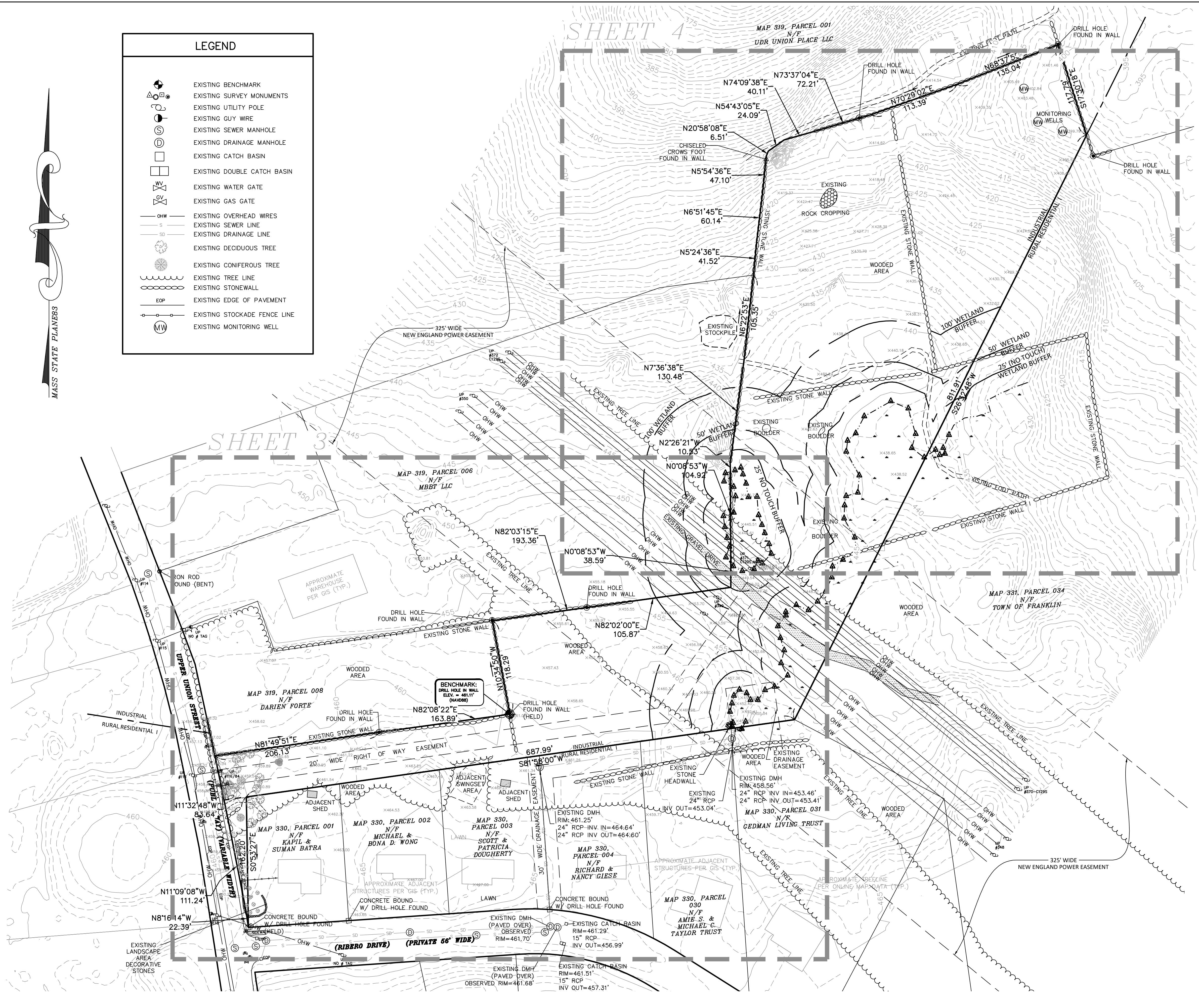
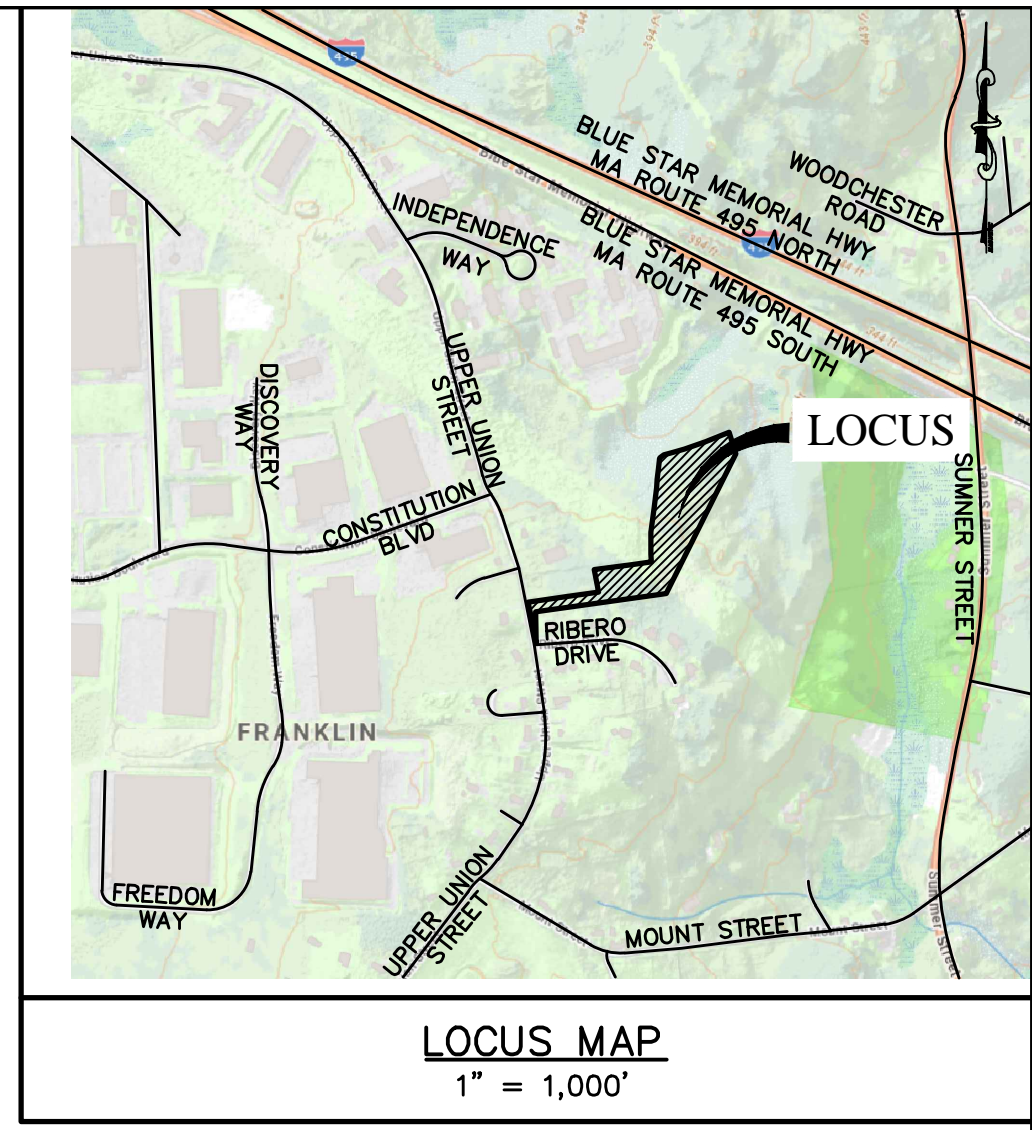
**ENGINEER:**

**Atlantic**<sup>®</sup>  
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 STONEWALL
	EXISTING EDGE OF PAVEMENT
	EXISTING STOCKADE FENCE LINE
	EXISTING MONITORING WELL



**GENERAL NOTES:**

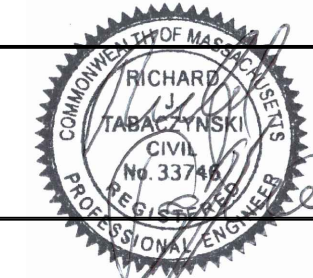
- RECORD OWNER(S) PER NORFOLK COUNTY REGISTRY OF DEEDS BOOK 31678 PAGE 107:  
**MAP 319, PARCEL 009 (0 UPPER UNION STREET)**  
JOHN C. COLELLA JR.  
FRANKLIN, MA 02038  
AREA = ±6.21 ACRES
- THE SUBJECT PROPERTY IS SHOWN AS PARCEL 009 ON THE TOWN OF FRANKLIN ASSESSOR'S MAP 319. TOTAL LAND AREA IS ±6.21 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.

**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'

NO.	BY	DATE	REVISION

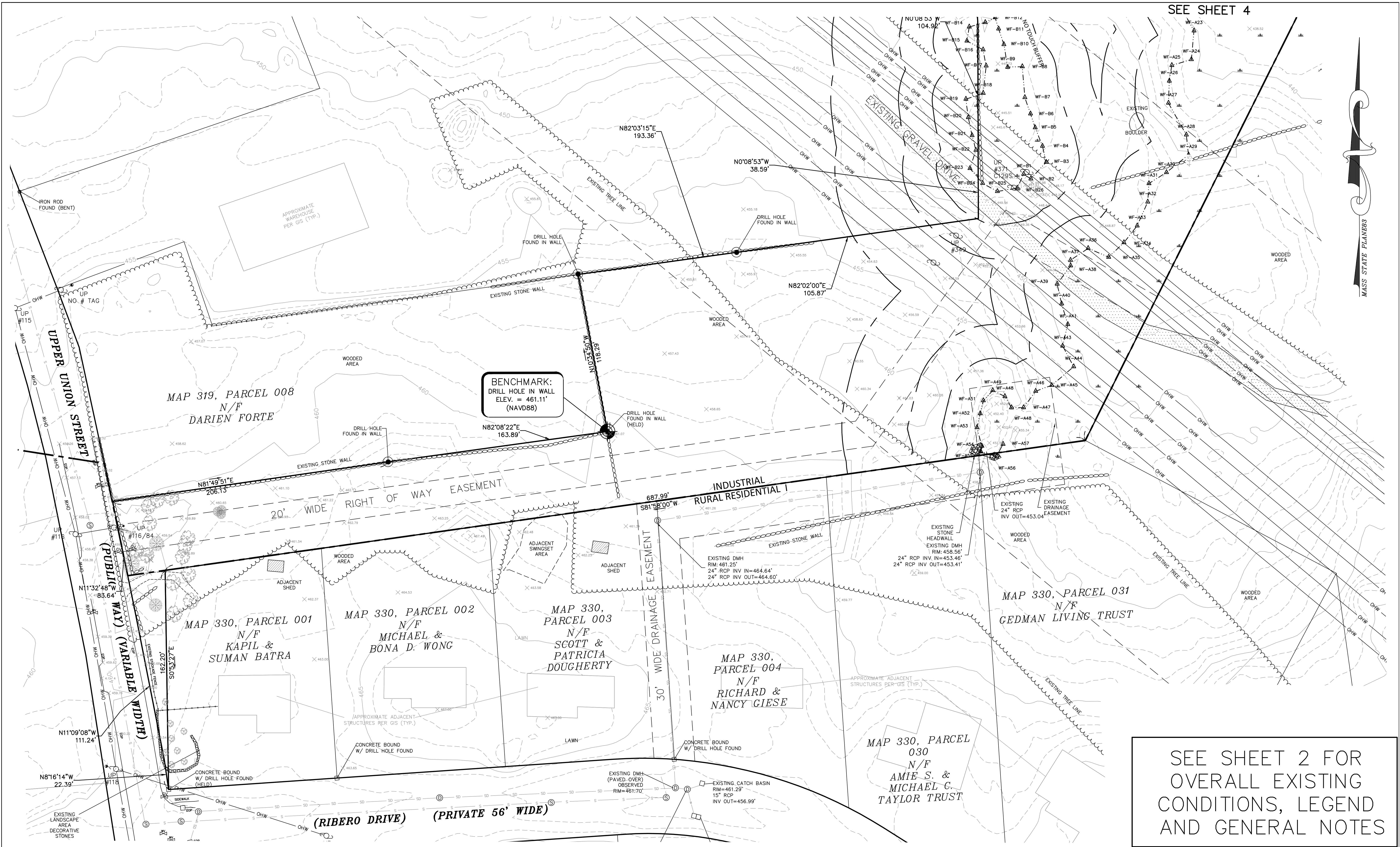
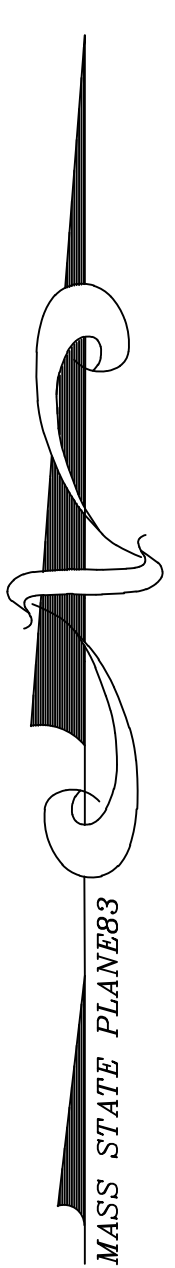


PREPARED FOR:  
**VS UNION SOLAR SMART, LLC**  
 24941 DANA POINT HARBOR  
 DANA POINT, CA 92629

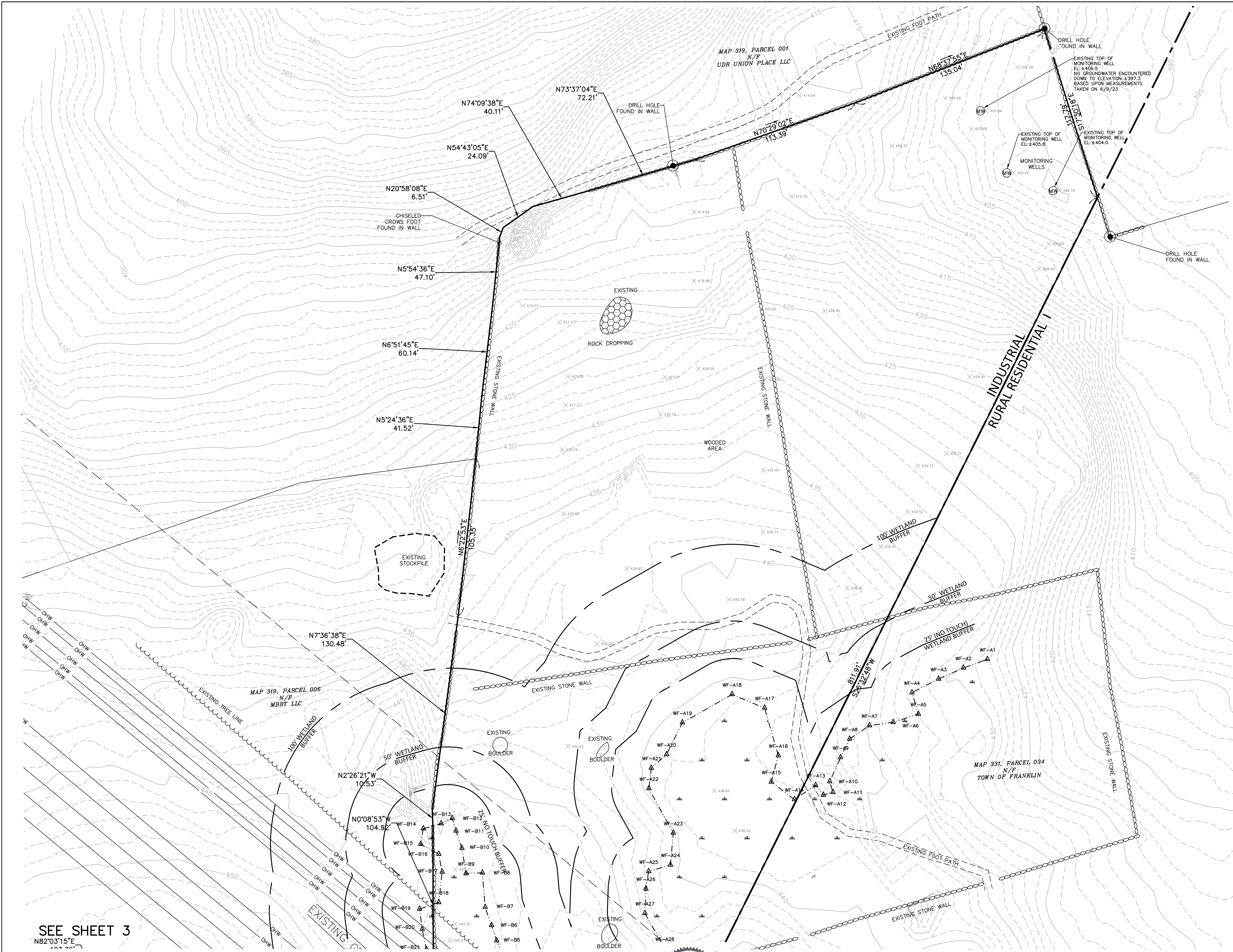
OVERALL EXISTING CONDITIONS PLAN  
 FOR  
**UPPER UNION SOLAR PROJECT**  
 FRANKLIN, MA  
 JUNE 19, 2023

FILE: 3328-EX-COND	Sheet	of
	2	9
JOB NUMBER	3328.00	

SEE SHEET 4



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

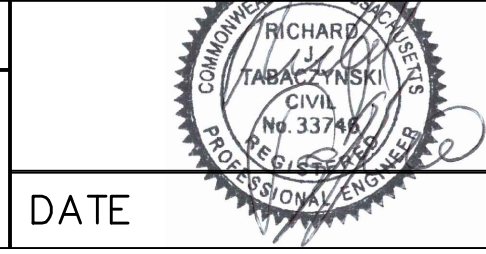
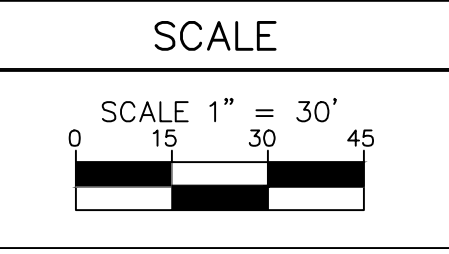


SEE SHEET 2 FOR  
OVERALL EXISTING  
CONDITIONS, LEGEND  
AND GENERAL NOTES

SEE SHEET 3  
N82°03'15"E

**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 :



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-EX-COND

Sheet	of
4	9
JOB NUMBER	
3328.00	

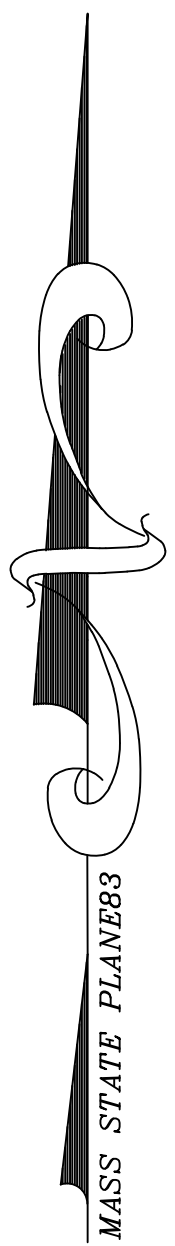
**ZONING REQUIREMENTS**

TOWN OF FRANKLIN  
ZONING BYLAWS, JAN, 2021

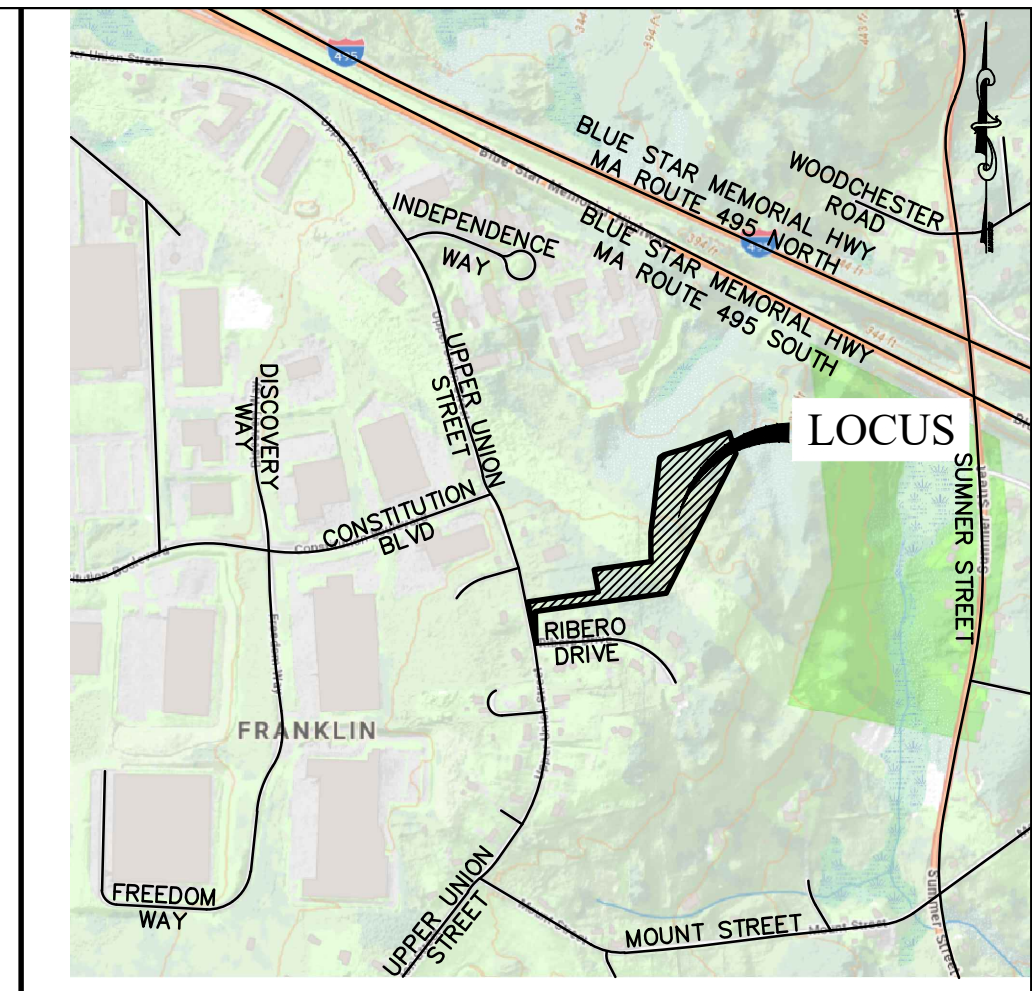
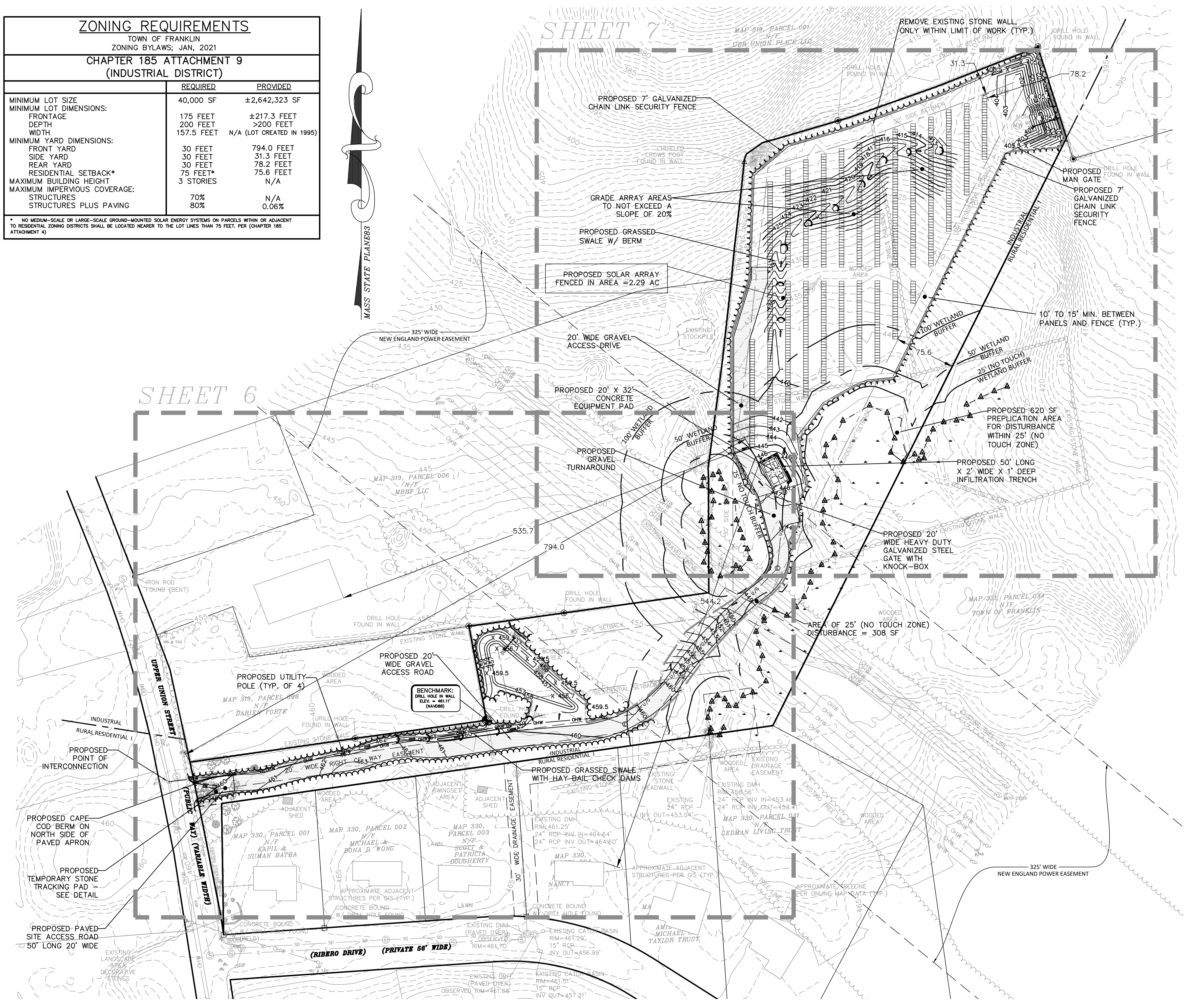
**CHAPTER 185 ATTACHMENT 9  
(INDUSTRIAL DISTRICT)**

	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	31.3 FEET
REAR YARD	30 FEET	78.2 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)



**SHEET 7**



**LOCUS MAP**  
1" = 1,000'

**LEGEND**

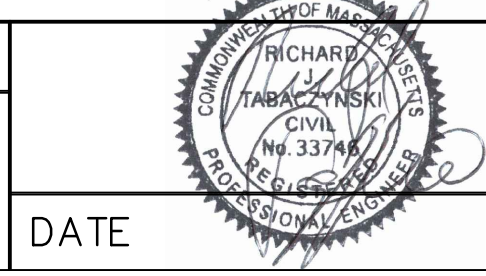
- EXISTING BENCHMARK
- EXISTING SURVEY MONUMENTS
- EXISTING UTILITY POLE
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING DRAINAGE MANHOLE
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- EXISTING OVERHEAD WIRES
- EXISTING SEWER LINE
- EXISTING DRAINAGE LINE
- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- EXISTING TREE LINE
- EXISTING STONEWALL
- EXISTING EDGE OF PAVEMENT
- EXISTING STOCKADE FENCE LINE
- EXISTING MONITORING WELL
- 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

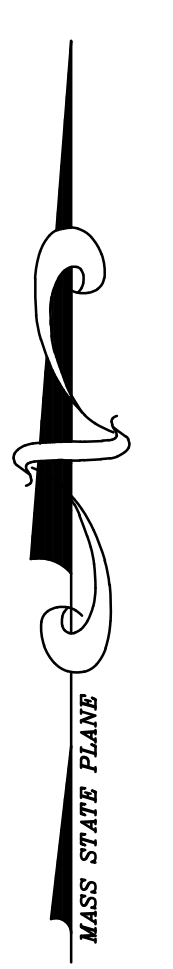
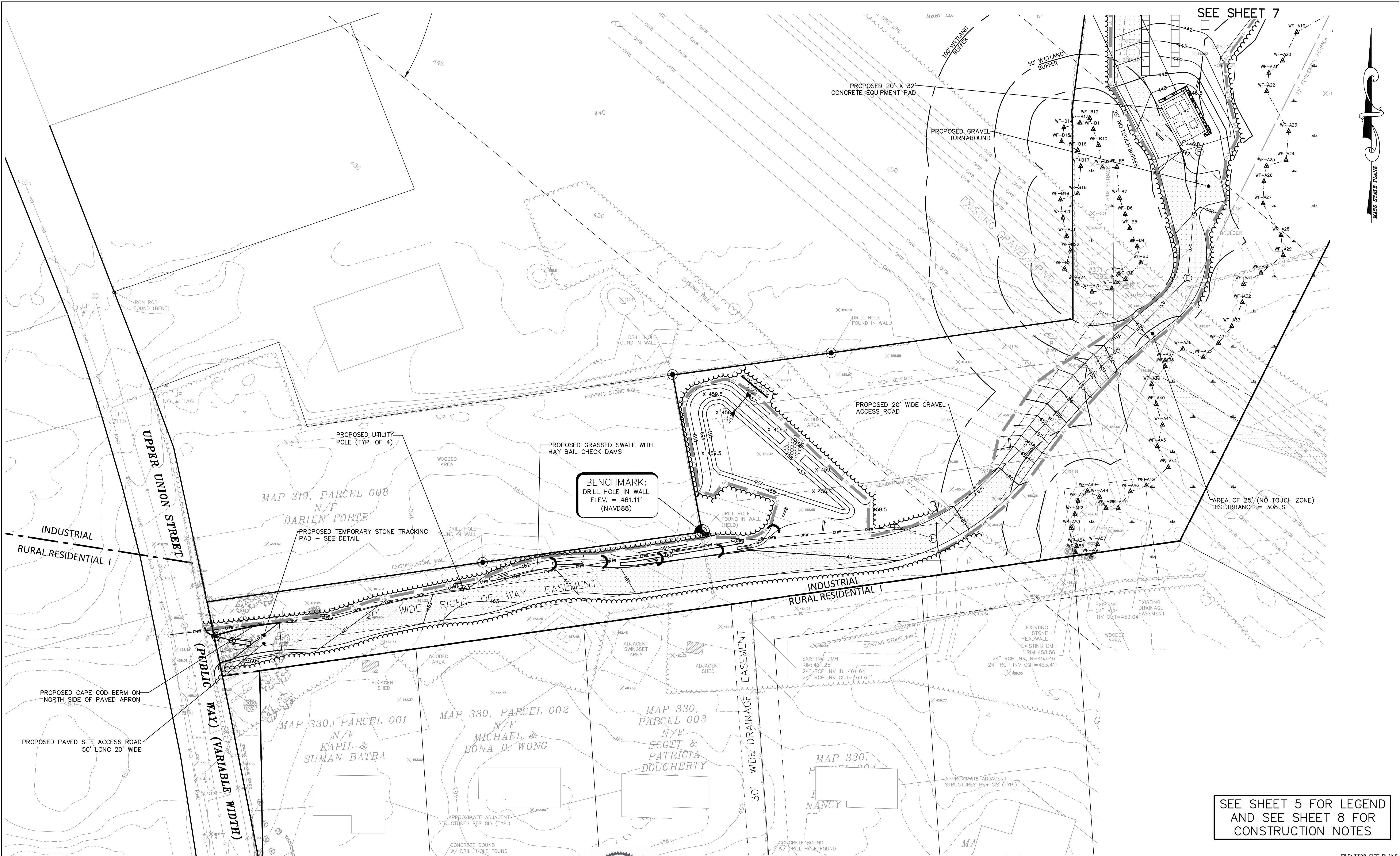


NO.	BY	DATE	REVISION

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

FILE: 3328 SITE PLANS	Sheet	of
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	JOB NUMBER	3328.00



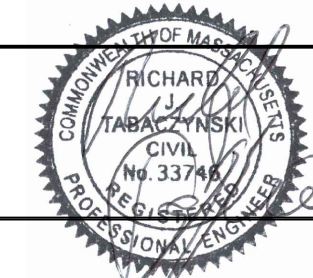
SEE SHEET 5 FOR LEGEND  
AND SEE SHEET 8 FOR  
CONSTRUCTION NOTES

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

Designed by : \_\_\_\_\_  
 Drawn by : \_\_\_\_\_  
 Checked by : \_\_\_\_\_  
 Survey chg. by : \_\_\_\_\_  
 Approved by : \_\_\_\_\_

SCALE  
 SCALE 1" = 30'  
 0 15 30 45

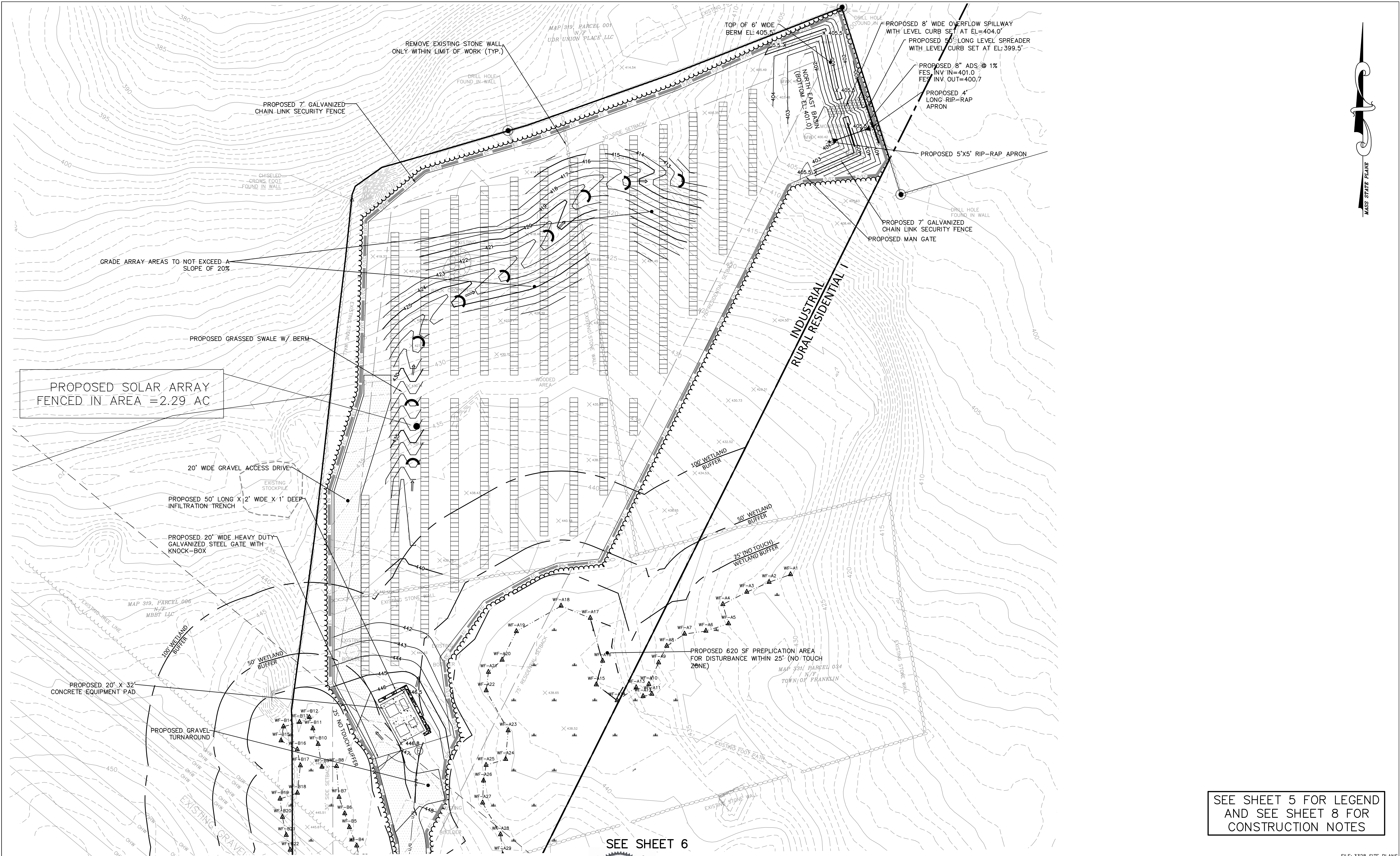
DATE	NO.	BY	DATE	REVISION



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

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

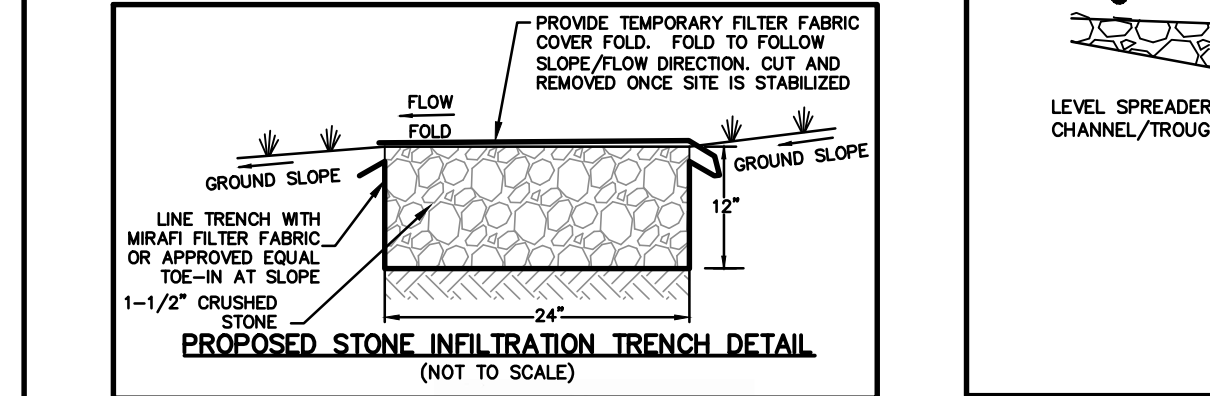
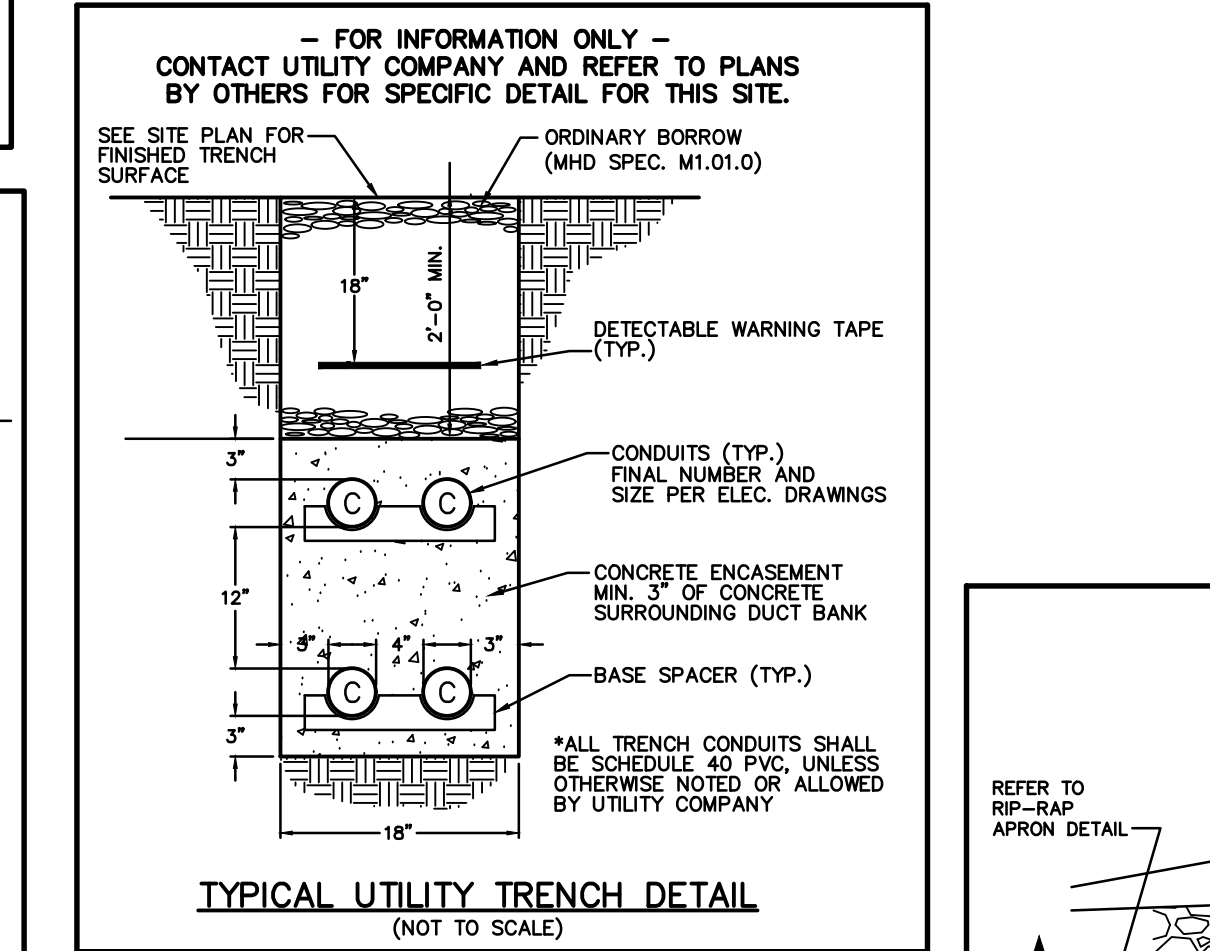
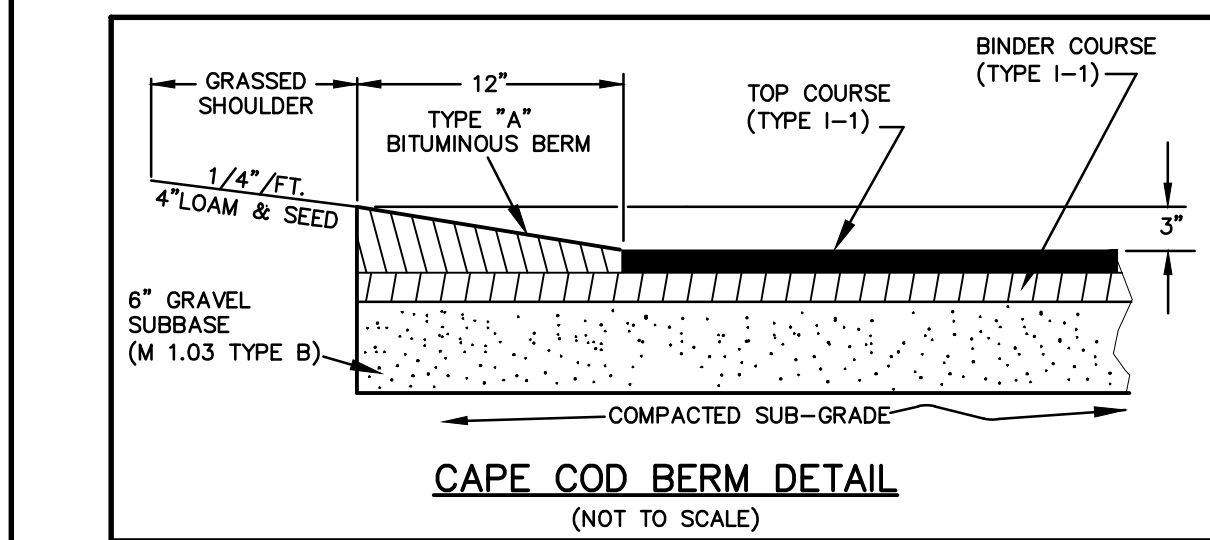
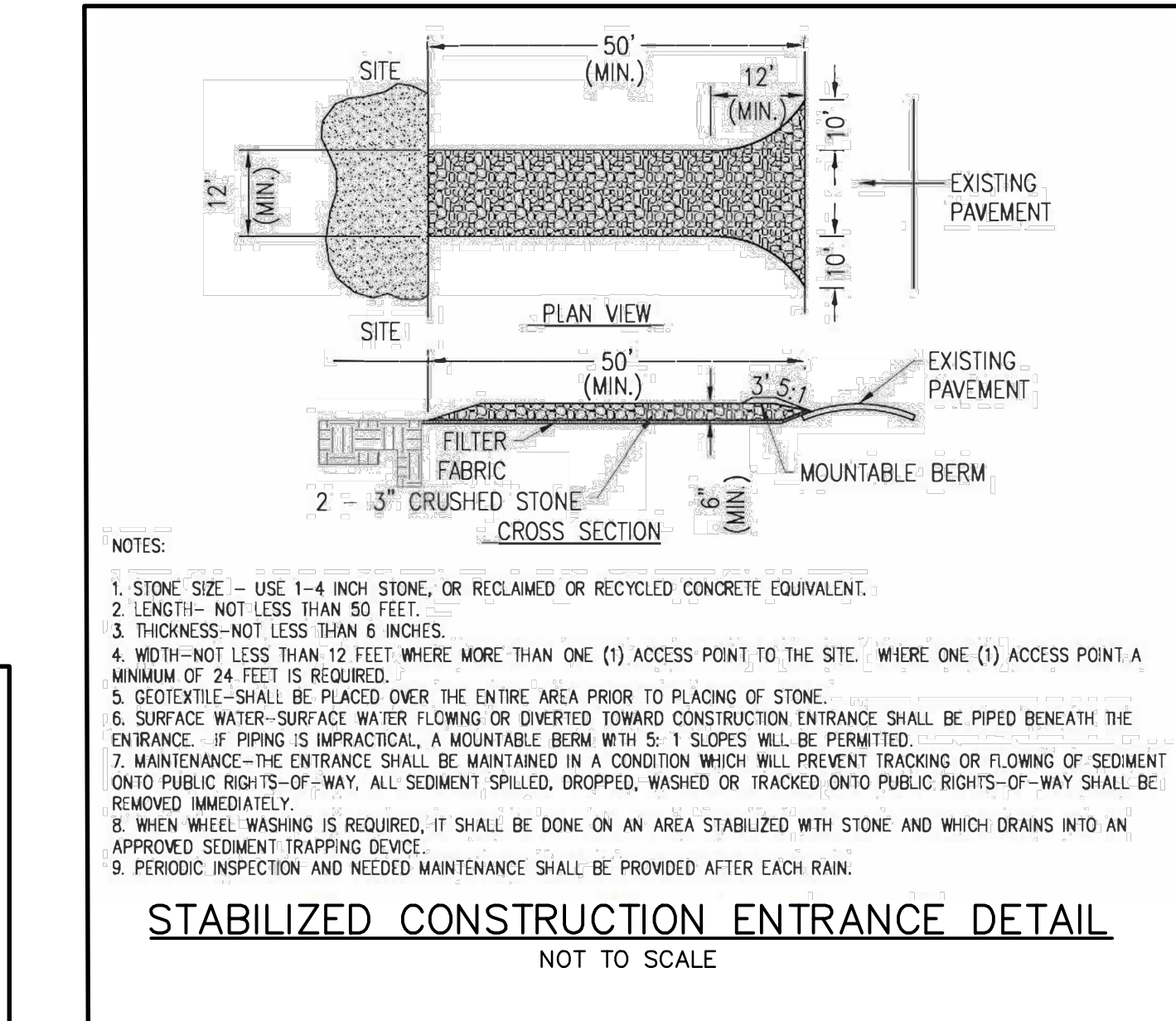
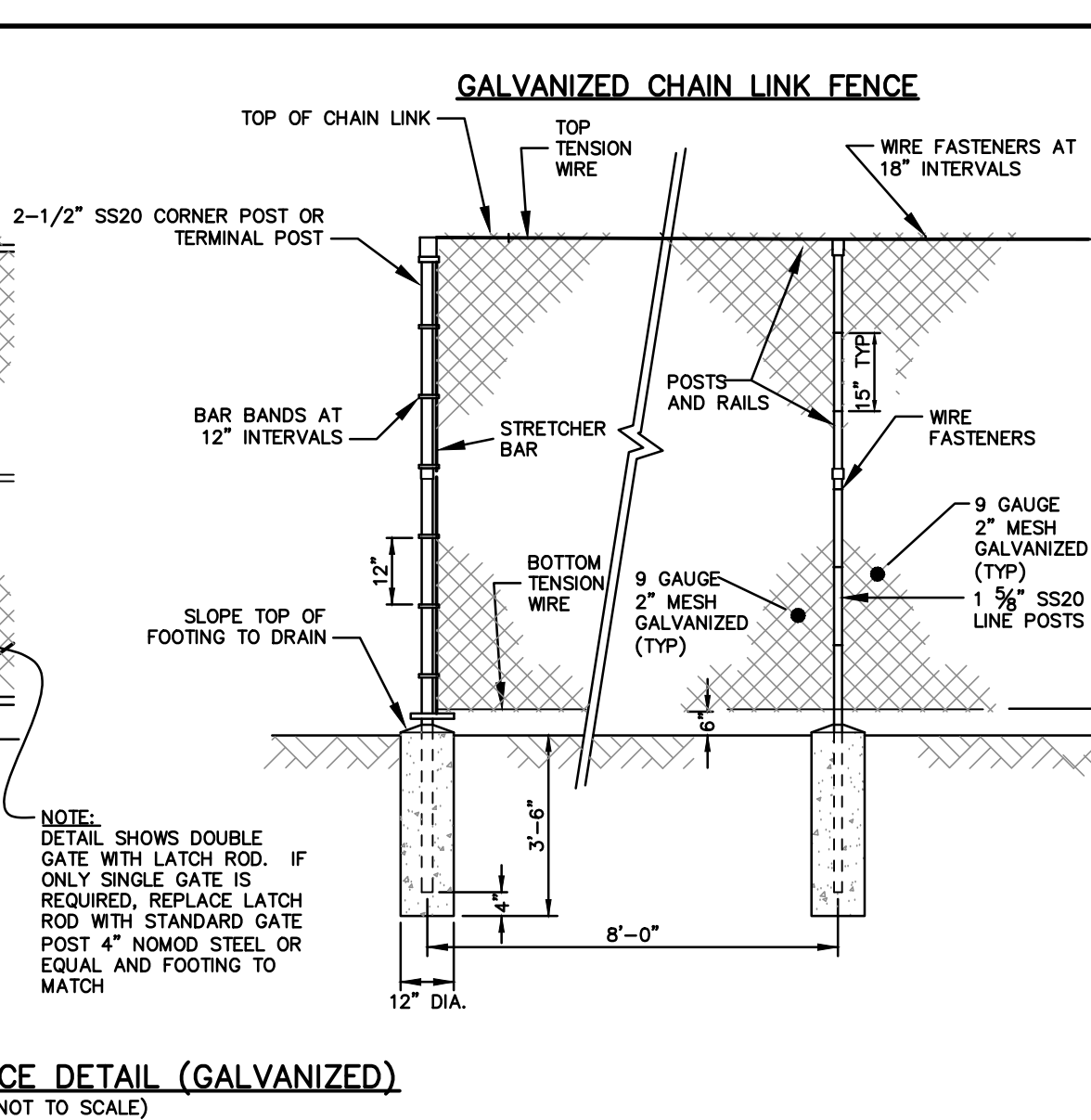
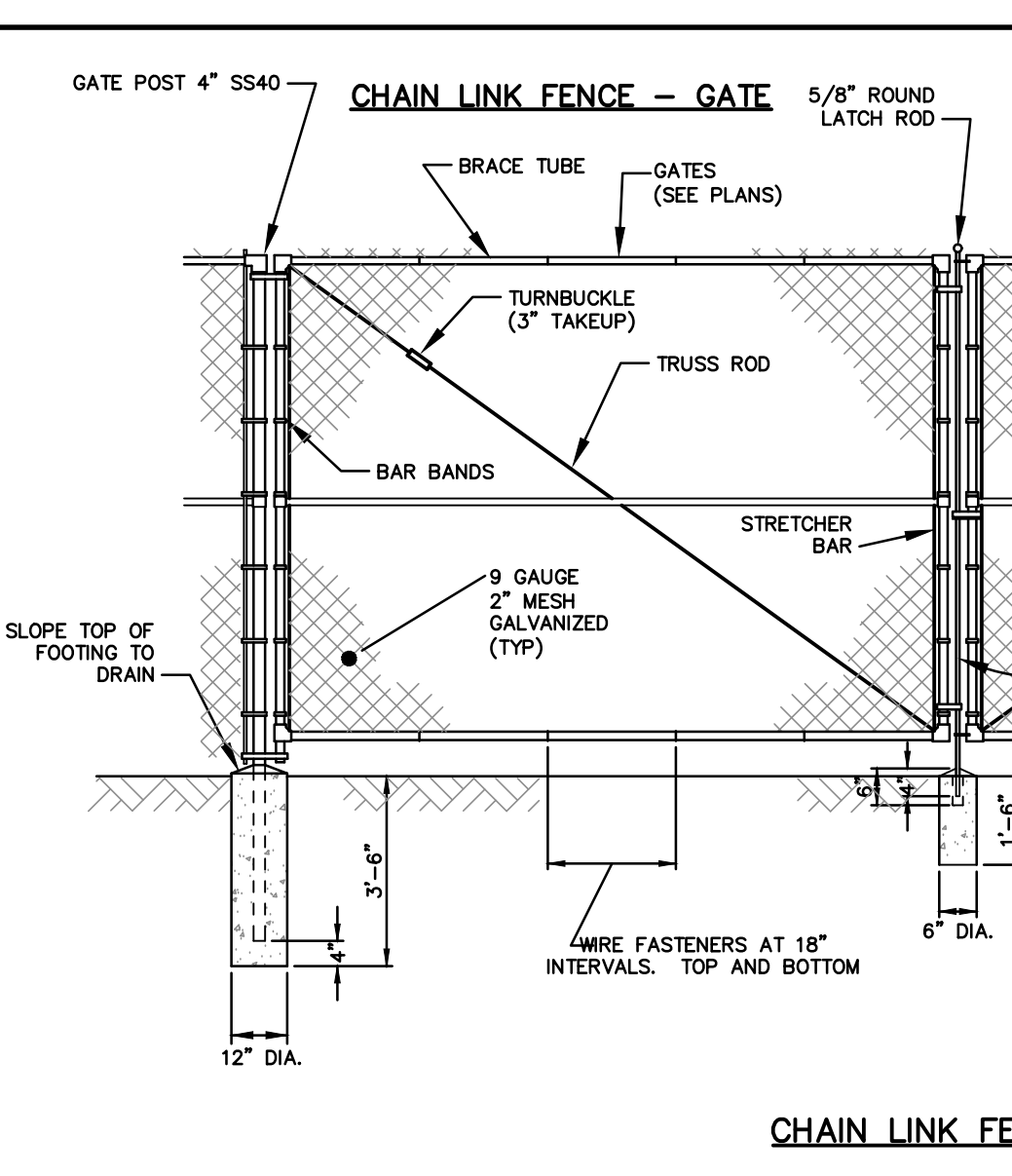
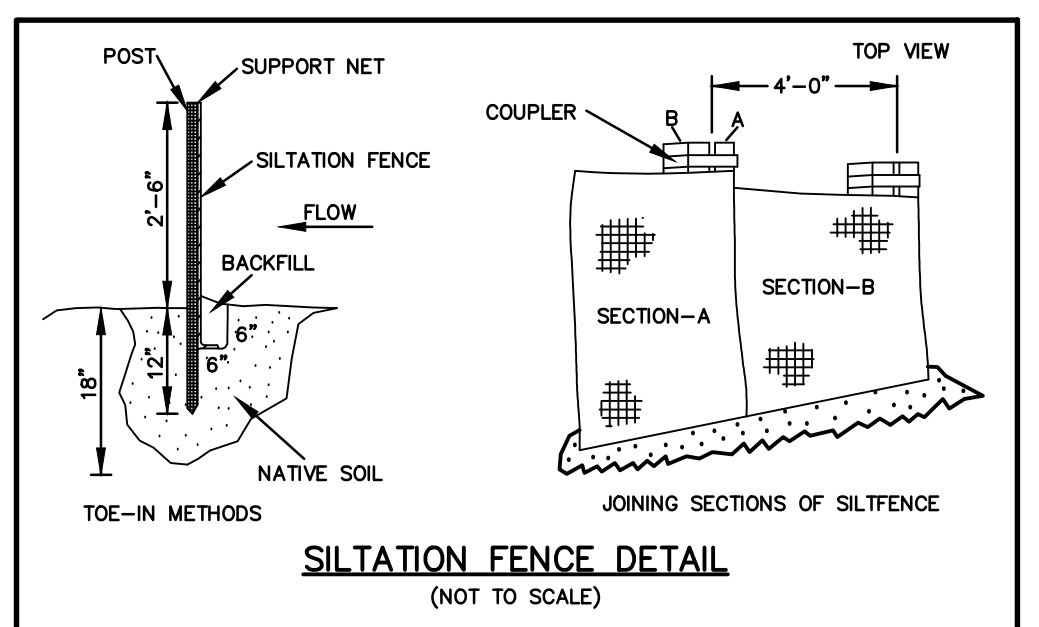
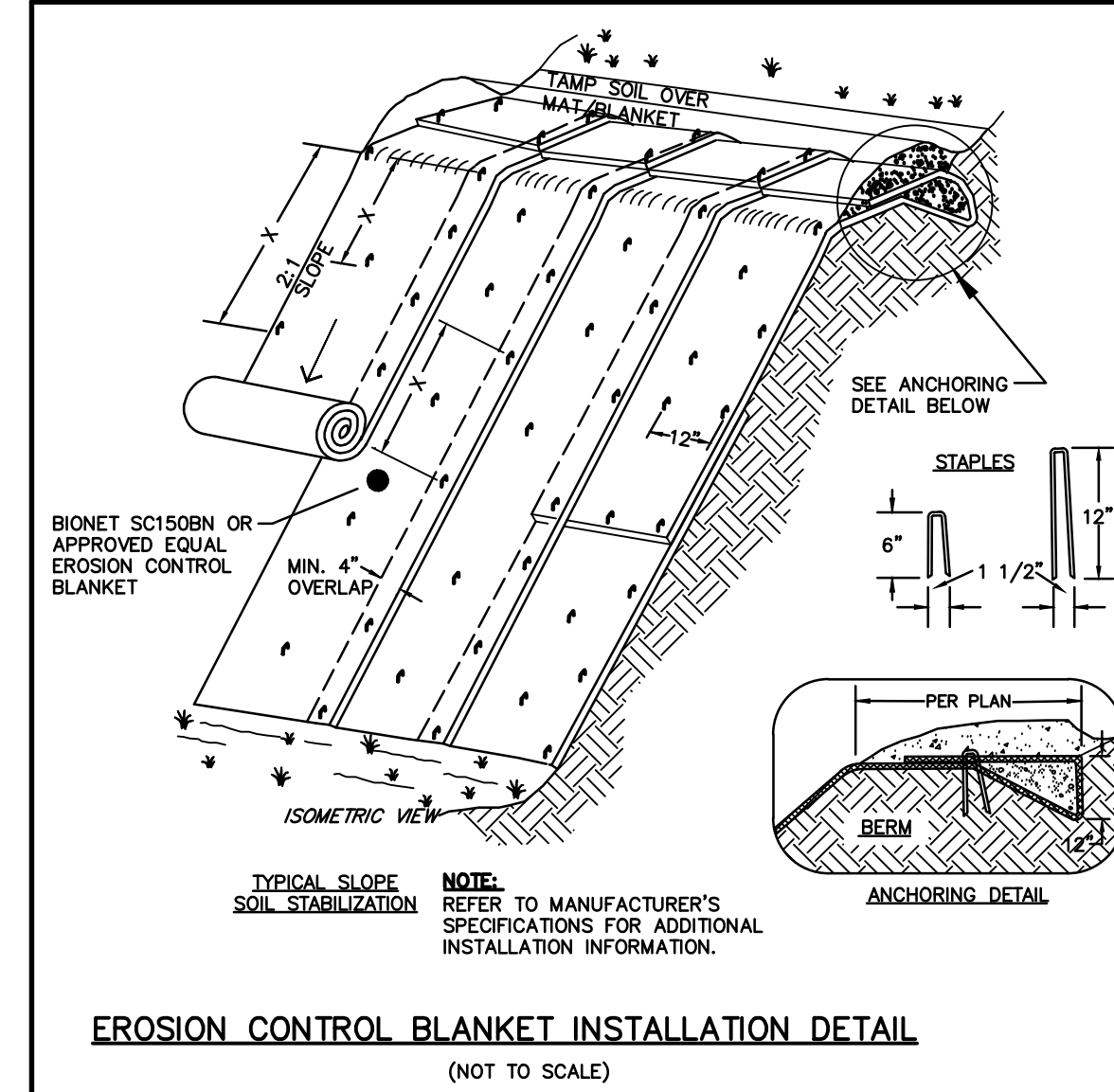
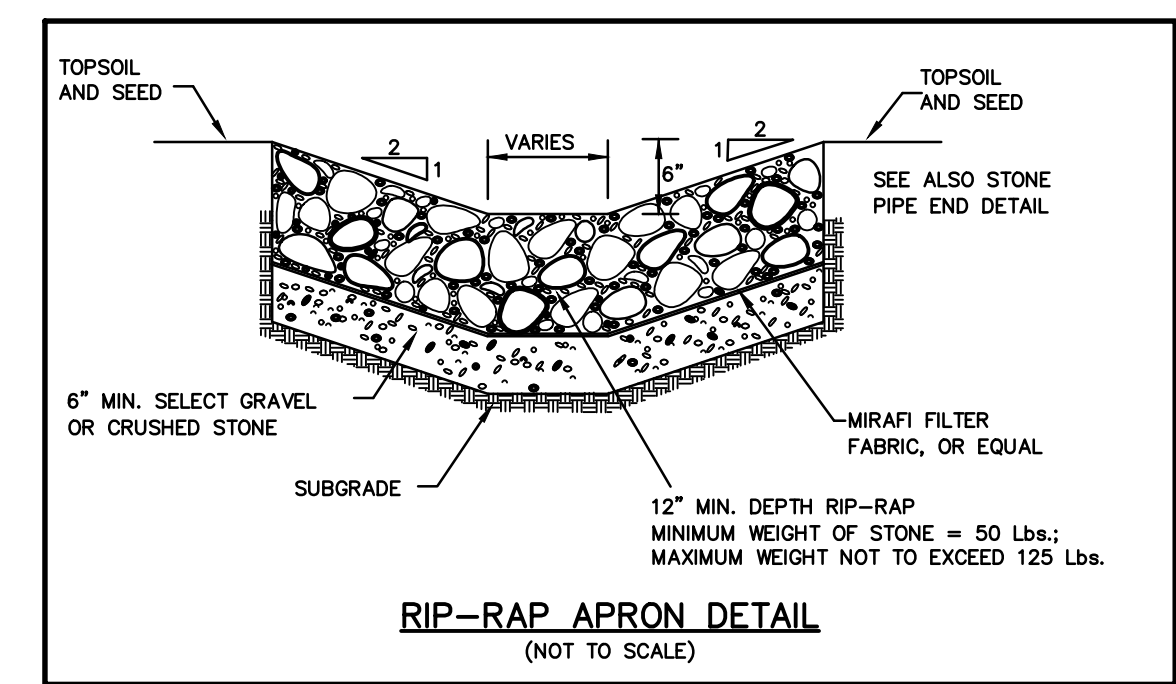
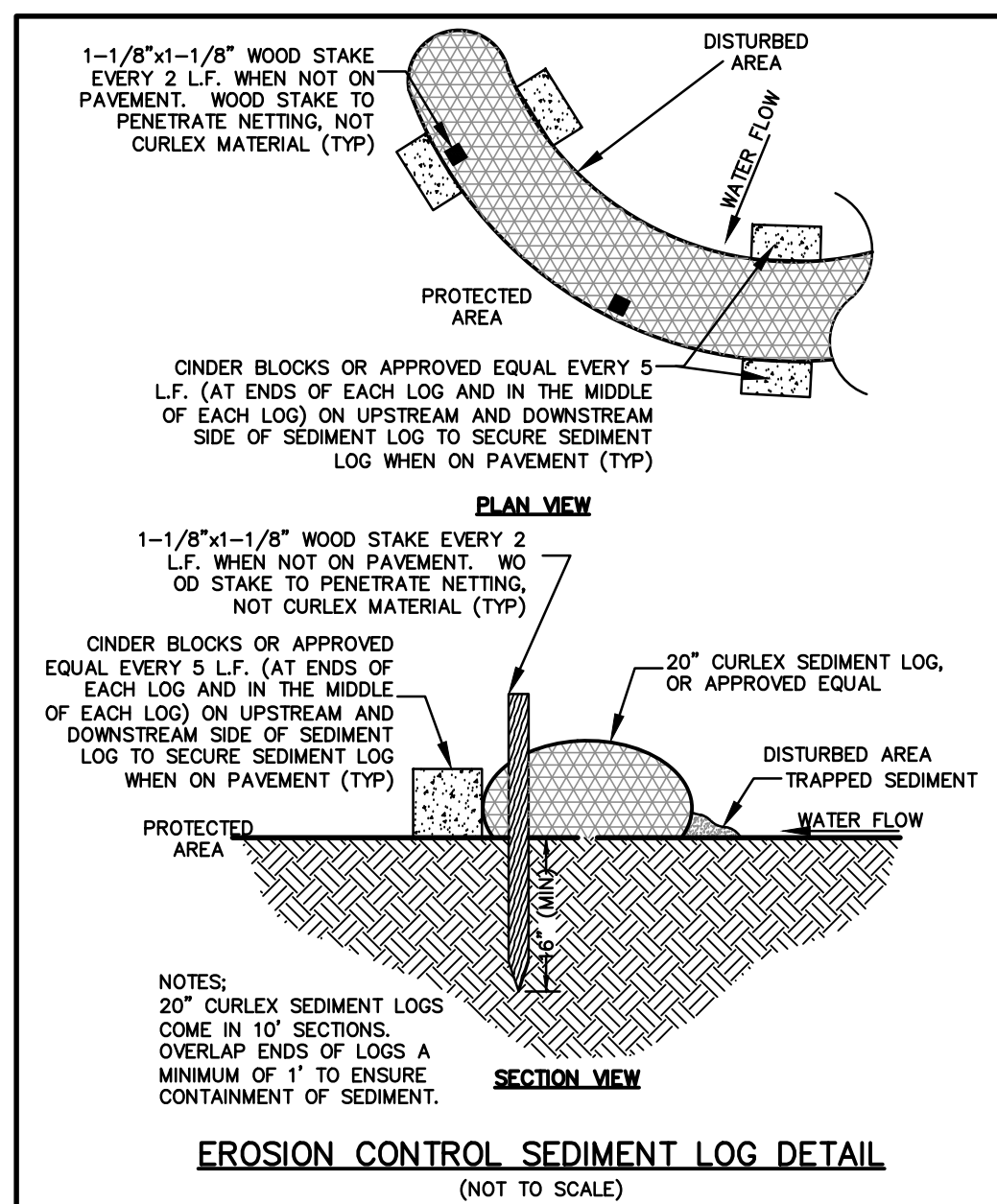
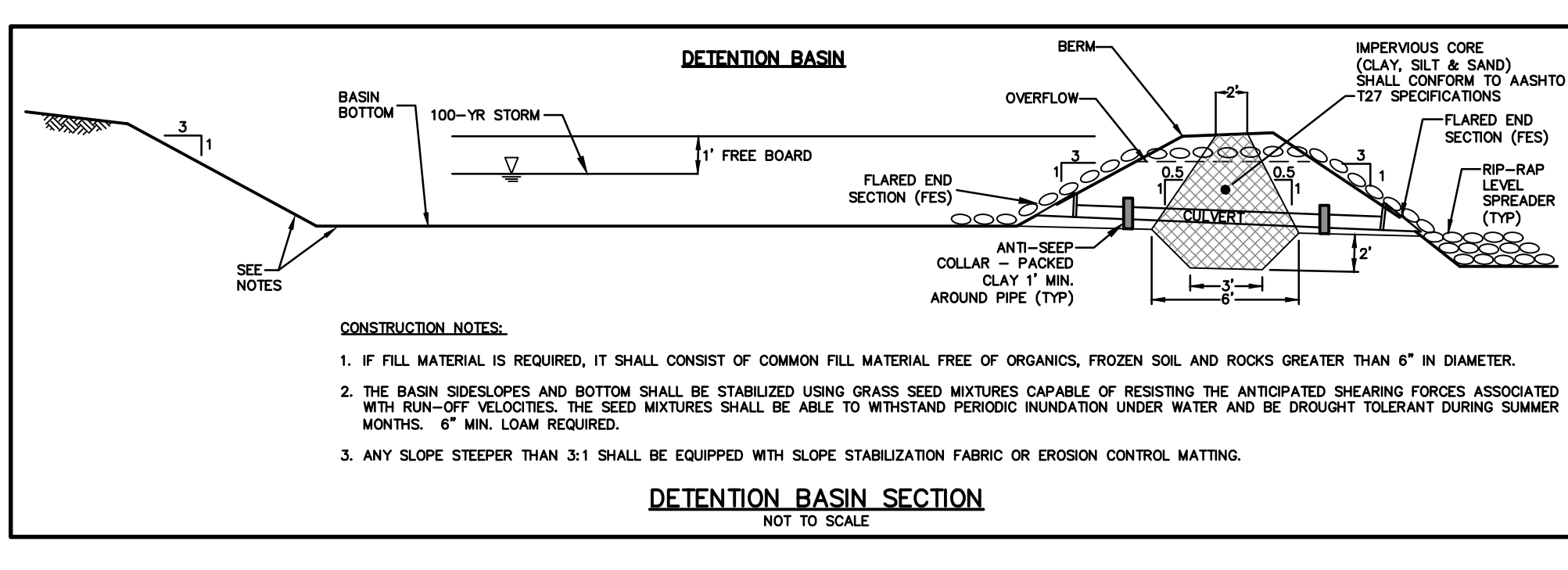
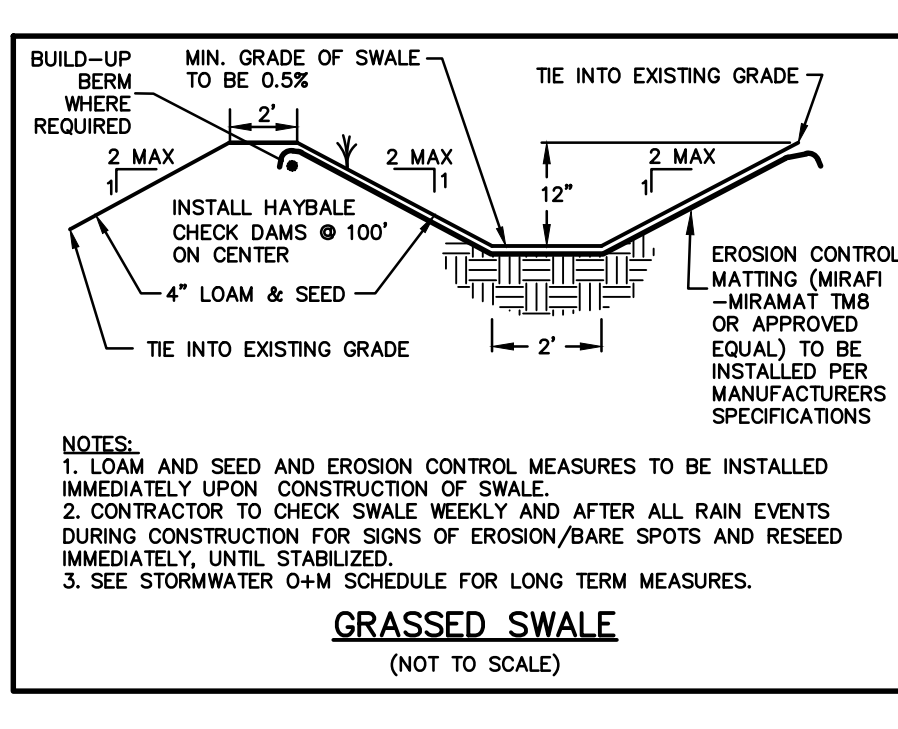
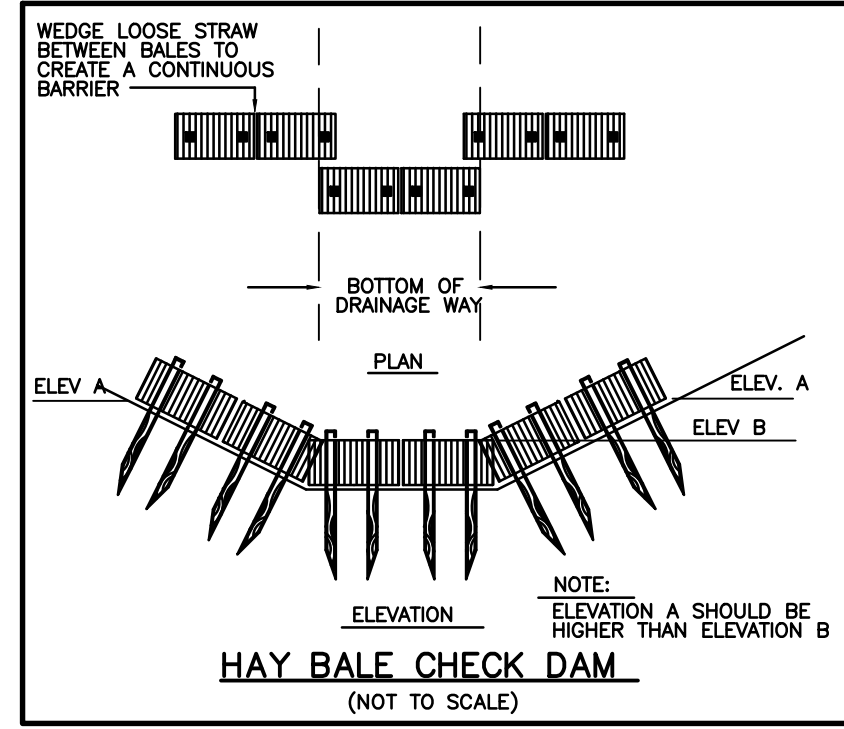
FILE: 3328 SITE PLANS	Sheet	of
	6	9
JOB NUMBER	3328.00	



PROPOSED SOLAR ARRAY  
FENCED IN AREA = 2.29 AC

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

SEE SHEET 6



**EROSION CONTROL NOTES:**

1. PRIOR TO COMMENCING SITE WORK OR EARTHWORK OPERATIONS, INSTALL EROSION CONTROL BARRIERS AND MAINTAIN THROUGHOUT CONSTRUCTION.
2. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
3. ALL MATERIALS AND STOCKPILES SHALL BE STORED ON LEVEL AREAS OUTSIDE OF ANY FLOOD ZONES, WETLANDS OR BUFFER ZONE AREAS. ALL STOCKPILES SHALL BE SURROUNDED BY HAYBALES, SHALL HAVE SIDE SLOPES NO GREATER THAN 3:1 AND SHALL BE SEEDED OR STABILIZED IF LEFT UNDISTURBED FOR TWO WEEKS OR MORE.
4. 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.
5. ANY SLOPE STEEPER AND 3:1 SHALL BE EQUIPPED WITH SLOPE STABILIZATION FABRIC OR EROSION CONTROL MATTING.
6. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTITUTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND/OR THE TOWN.
7. 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.
8. 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.
9. SEDIMENT CONTROL DEVICES AND EROSION CONTROL BARRIERS MAY BE REMOVED ONLY AFTER THE SITE HAS BEEN STABILIZED.
10. 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 GUIDELINES. IN ALL CASES STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES.
11. EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED AWAY FROM ADJUTING STRUCTURES, PROPERTY, ETC.
12. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEERS OR THE TOWN TO MITIGATE ANY EMERGENCY CONTROL.
13. REFER TO CONSTRUCTION DETAILS FOR ADDITIONAL EROSION CONTROL MEASURES.
14. 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.
15. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED SOIL. EFFORTS SHALL BE MADE TO LIMIT THE TIME OF EXPOSURE OF DISTURBED AREAS.

**CONSTRUCTION NOTES:**

1. 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 (NOOK 31678 PAGE 107) AND ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAVD83) AND BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS SHOWN AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MAY BE FOUND IN THE PLAN.
3. CONTRACTOR SHALL VERIFY ALL CRITICAL ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
4. 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.
5. 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 CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS SITE.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DIGSAFE, 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.
7. ALL BUILDINGS, SURFACE, AND SUBSURFACE IMPROVEMENTS ON AREAS ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN HEREON.
8. 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 R/W 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.
9. 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 ABUTTING PROPERTY OWNERS, A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN.
10. 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.
11. 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.
12. 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 CONSTRUCTION OF SERVICES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SURVEY CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE PROPOSED WORK.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED.
15. 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.
16. 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 MATERIAL FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.
17. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPROVED PERMITS AND WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
18. CONTRACTOR TO DESIGNATE A SPECIFIC AREA FOR COMBUSTIBLE MATERIALS, APPROVED BY THE FIRE DEPARTMENT, SO THAT COMBUSTIBLES ARE NOT SPREAD THROUGHOUT THE CONSTRUCTION SITE.

**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 WILL REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL PAD SHOULD BE INSPECTED WEEKLY AT A MINIMUM. AFTER MAJOR STORM EVENTS (>0.25" PER CGP) AND DURING PERIODS OF HEAVY USE WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE PAD SHOULD BE TOP DRESSED WITH NEW STONE OR REPLACED COMPLETELY.

**EROSION CONTROL BARRIERS:**  
EROSION CONTROL BARRIERS (HAY BALES, SILT FENCE, ETC.) SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT (>0.25 INCHES PER 2022 CGP) AND AT LEAST DAILY DURING PROLONGED RAINFALL. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF CONSIDERED REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SEDIMENT SHOULD BE DEPOSITED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS.

**GRASSED SWALES WITH CHECK-DAMS:**  
DURING CONSTRUCTION GRASSED LINED SWALES SHALL BE INSPECTED IMMEDIATELY AFTER MAJOR STORM EVENTS (>0.25 INCHES PER 2022 CGP) AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR ERODED SWALES IMMEDIATELY AFTER INSPECTION. ADDITIONAL INSPECTIONS SHOULD BE SCHEDULED DURING THE FIRST FEW MONTHS TO ENSURE THAT THE VEGETATION IN THE CHANNELS IS ESTABLISHED ADEQUATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED BEFORE IT EXCEEDS 0.5' IN DEPTH. SWALES SHALL BE MOWED AS NEEDED. CLIPPINGS TO BE REMOVED FROM SWALES AND AREAS IMMEDIATELY UP-GRADE AND PROPERLY DISPOSED OF.

**DEEP SUMP HOODED CATCH BASINS:**  
INSPECT MONTHLY (MINIMUM) AFTER MAJOR STORM EVENTS (>0.25" PER CGP) DURING CONSTRUCTION FOR CLOGGED GRATES OR PIPES AND EXCESSIVE ACCUMULATION OF SEDIMENT, SAND, OR TRASH. CLEAN SUMPS WHEN SEDIMENT REACHES 24" ALL CATCH BASINS SHALL BE PROVIDED WITH PRE-MANUFACTURED "SILT-BAG" CATCH BASIN INLET SEDIMENT COLLECTION SYSTEMS UNTIL "SILT-SACKS" IS IN PLACE.

**CATCH BASIN INLET PROTECTION ("SILT-SACKS"):**  
ALL CATCH BASINS SHALL BE PROVIDED WITH INLET PROTECTION CONSISTING OF PRE-MANUFACTURED "SILT-SACKS" CATCH BASIN INLET SEDIMENT COLLECTION SYSTEMS UNTIL PAVEMENT BASE COURSE IS IN PLACE AND THE CONTRIBUTING DRAINAGE AREA TO THE INLET IS STABILIZED. INSPECT THE INLET PROTECTION DEVICE WEEKLY AT A MINIMUM, AND AFTER MAJOR STORM EVENTS (>0.25" PER CGP) THROUGHOUT CONSTRUCTION. REPAIRS ARE TO BE MADE AS REQUIRED AND SEDIMENT MUST BE REMOVED WHEN THE LEVEL OF CONSTRUCTION REACHES THE REMOVAL DEPTH PER MANUFACTURER SPECIFICATIONS.

**STONE INFILTRATION TRENCH:**  
INSPECT AFTER EVERY MAJOR STORM EVENT (0.25" PER CGP) DURING CONSTRUCTION. ONCE SITE IS STABILIZED AND RE-VEGETATED, CUT AWAY/REMOVE TEMPORARY COVER FOLD AND INSPECT TO ENSURE PROPER STABILIZATION AND FUNCTION. REMOVE ANY SEDIMENT THAT ACCUMULATED DURING CONSTRUCTION.

**SUB-SURFACE INFILTRATION SYSTEM:**  
INSPECT AFTER EVERY MAJOR STORM EVENT (>0.25 INCHES PER 2022 CGP) DURING CONSTRUCTION TO ENSURE THE SYSTEM IS DRAINING PROPERLY. CHECK FOR ACCUMULATION OF SEDIMENT AND PONDING WATER. IF PONDING WATER IS VISIBLE INSIDE THE SYSTEM FOR SEVERAL DAYS AFTER A STORM EVENT, NOTIFY THE ENGINEER FOR POSSIBLE REMEDIAL MEASURES. REMOVE SEDIMENT AS NECESSARY DURING CONSTRUCTION, WHILE THE SYSTEM IS DRY.

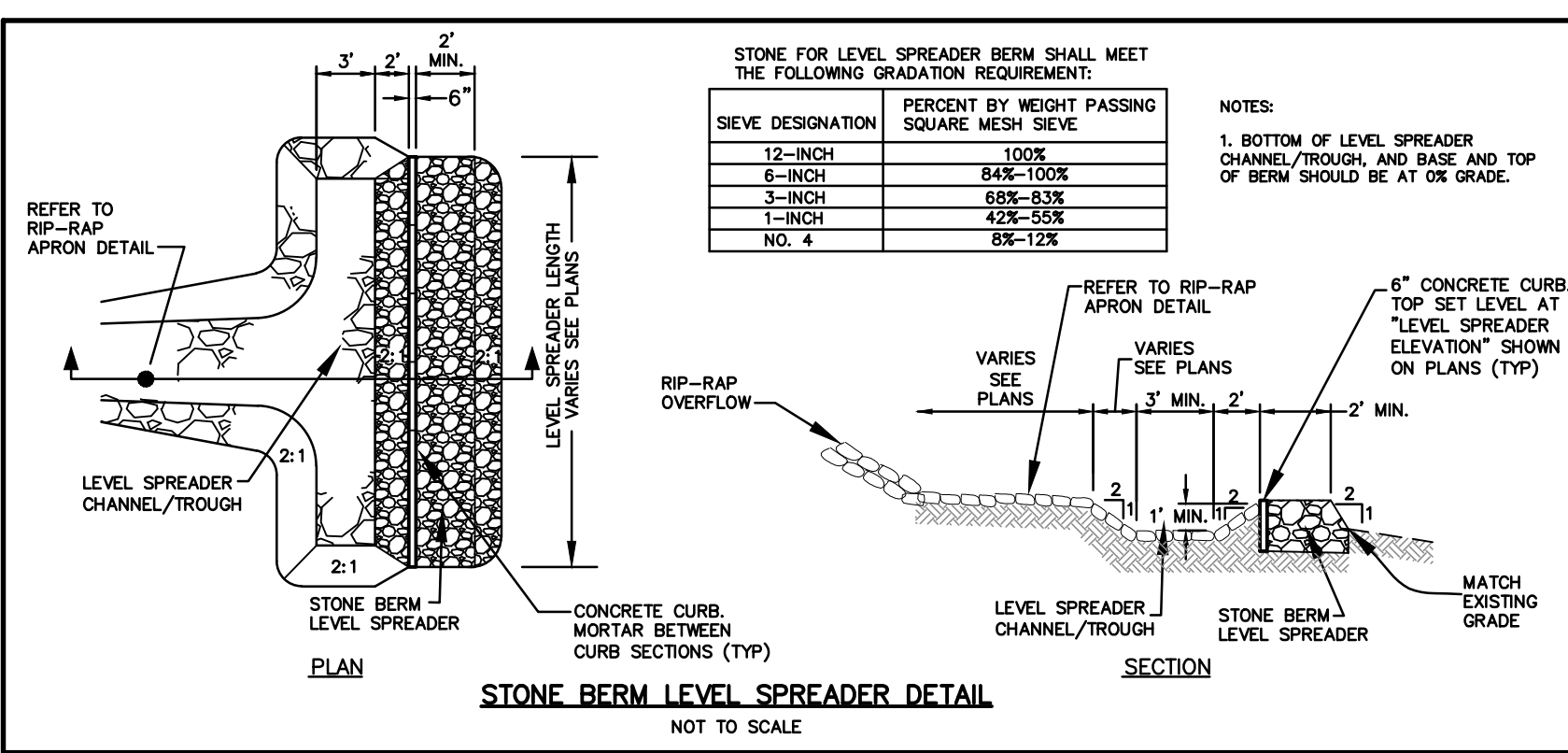
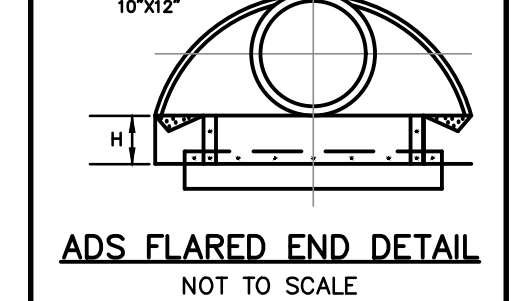
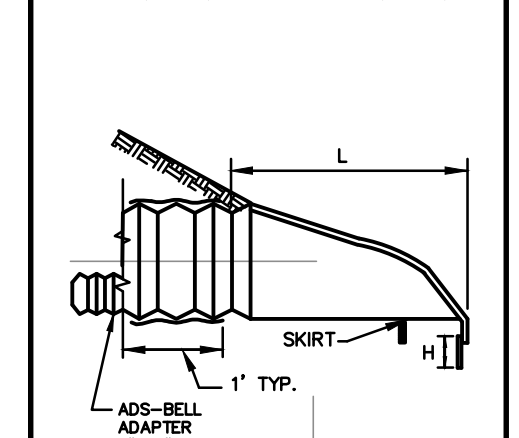
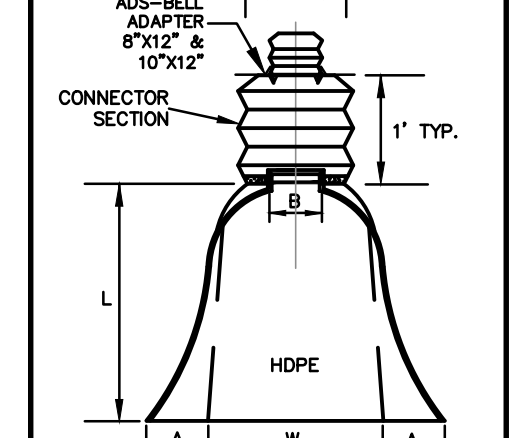
**DETENTION BASINS:**  
INSPECT AFTER EVERY MAJOR STORM EVENT (>0.25" PER 2022 CGP) DURING CONSTRUCTION TO ENSURE PROPER STABILIZATION AND FUNCTION. EXAMINE THE OUTLET STRUCTURE OR OUTLET PIPES FOR EVIDENCE OF CLOGGING OR EXCESSIVE ACCUMULATION OF SEDIMENT. CHECK FOR ACCUMULATION OF SEDIMENT AND PONDING WATER. IF PONDING WATER ABOVE THE OUTLET PIPES IS VISIBLE INSIDE THE BASIN AFTER A STORM EVENT, NOTIFY THE ENGINEER FOR POSSIBLE REMEDIAL MEASURES. MOW THE BERM AT THE COMPLETION OF THE CONSTRUCTION PERIOD. REMOVE SEDIMENT WHILE THE SYSTEM IS DRY.

**NOTES:**  
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ALL STORMWATER AND EROSION CONTROL FACILITIES UNTIL THE PROJECT CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL CLEAN ALL COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM AT THE COMPLETION OF CONSTRUCTION, IMMEDIATELY PRIOR TO TURNING OVER OPERATION AND MAINTENANCE RESPONSIBILITY TO THE PROJECT PROPONENT.  
2. UPON COMPLETION OF CONSTRUCTION, THE OPERATION AND MAINTENANCE OF ALL COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM WILL BE THE RESPONSIBILITY OF THE SYSTEM OWNER.

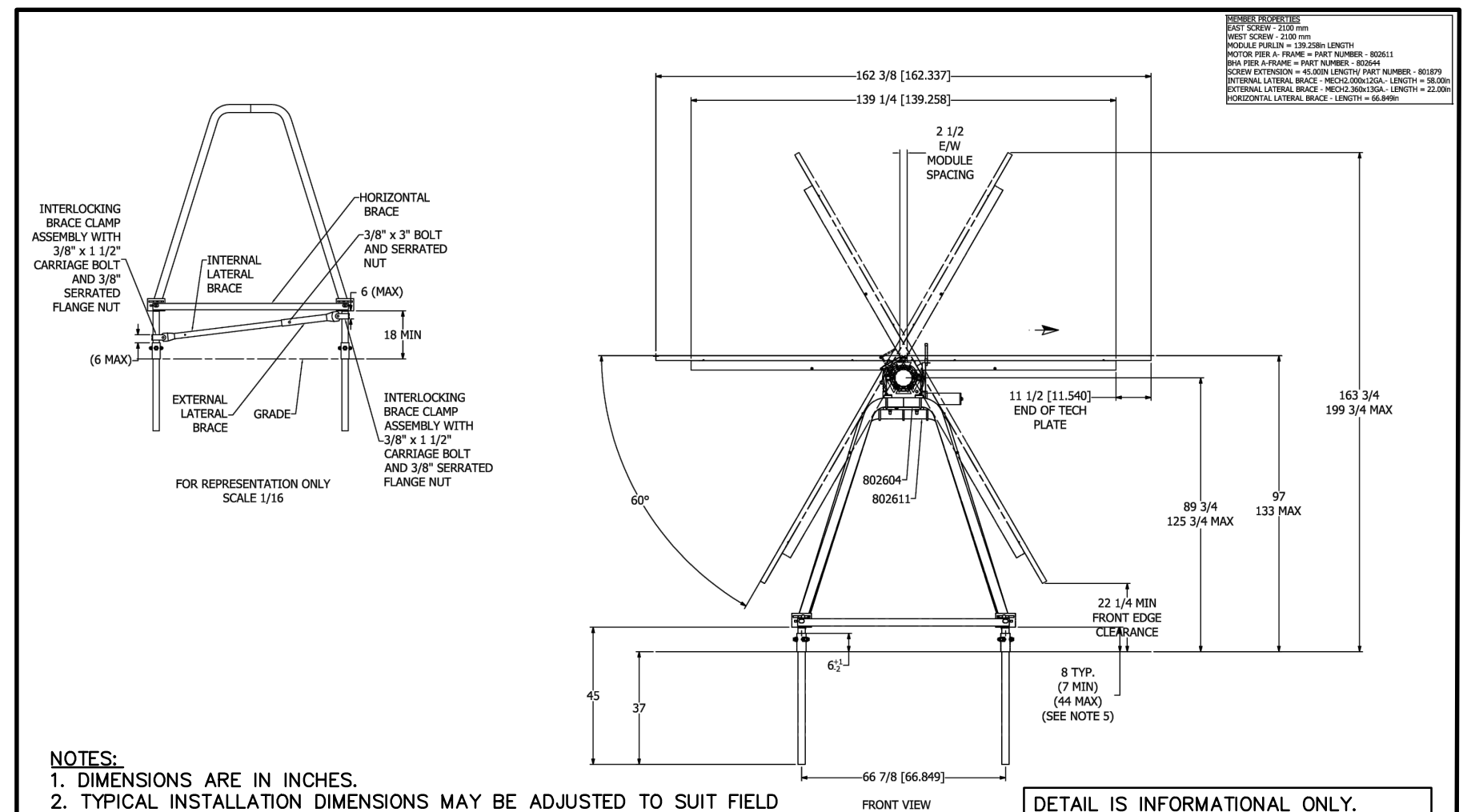
VS UNION SOLAR SMART, LLC  
24941 DANA POINT HARBOR  
DANA POINT, CA 92629

3. DISPOSAL OF ACCUMULATED SEDIMENT AND HYDROCARBONS TO BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS.  
4. THERE SHALL BE NO ILLEGAL DISCHARGE OF ANY WASTE OR WASTE WATER INTO THE STORMWATER MANAGEMENT SYSTEM. THE MAINTENANCE OF THE FACILITY SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO PREVENT ANY DISCHARGE OF WASTE OR WASTE WATER INTO THE STORMWATER MANAGEMENT SYSTEM. ANY WASTE OIL OR OTHER WASTE PRODUCTS GENERATED DURING MAINTENANCE SHALL BE PROPERLY DISPOSED OF OFF SITE.

PIPE DIA. (IN.)	A	B	C	L	W
8	6.5	10	6.5	25	29
10	6.5	10	6.5	25	29



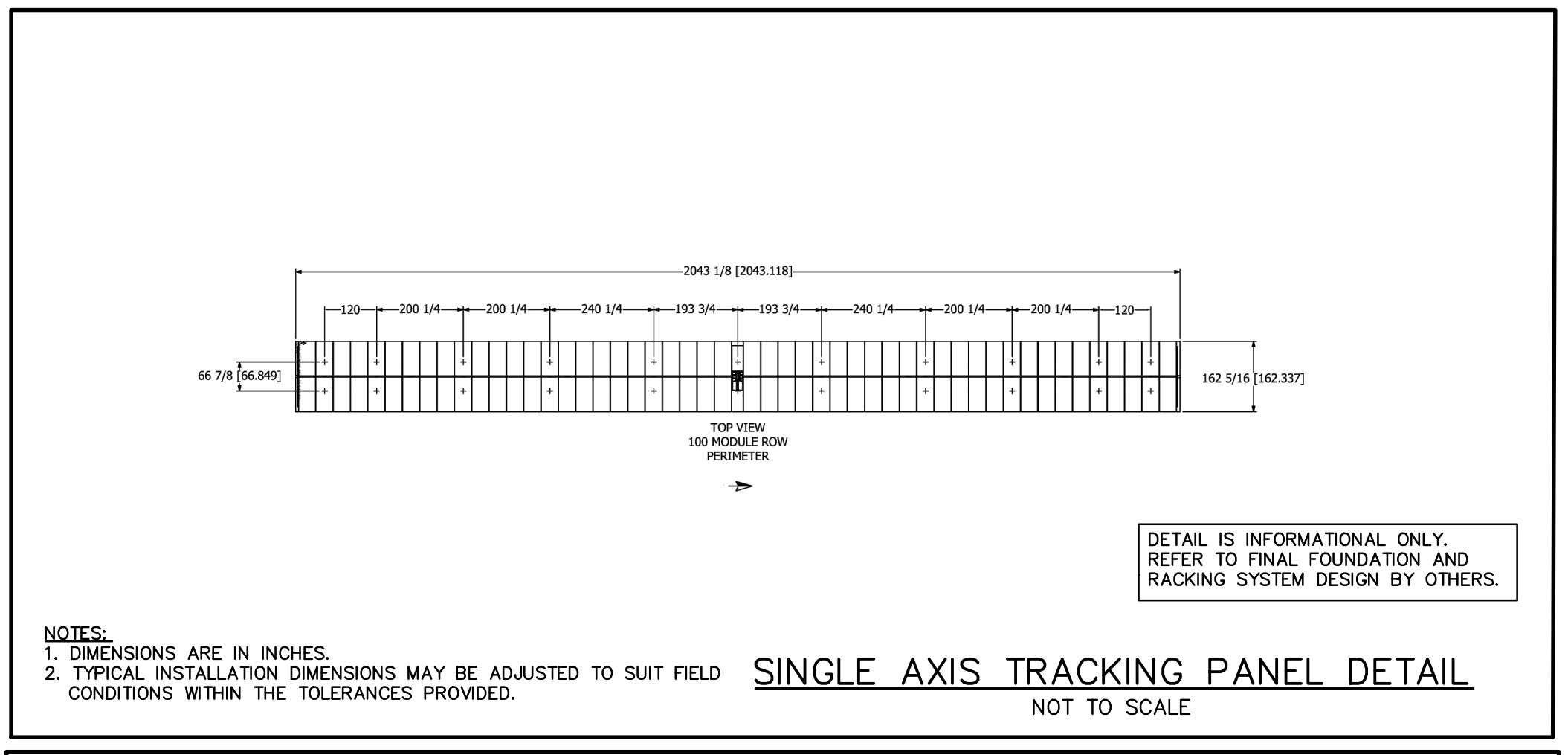




**NOTES:**

1. DIMENSIONS ARE IN INCHES.
2. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITHIN THE TOLERANCES PROVIDED.
3. SCREW EXTENSIONS SHALL BE INSTALLED PLUMB, IF MECHANICALLY POSSIBLE MAXIMUM 3" OUT OF PLUMB.
4. LATERAL BRACES ARE DESIGNED TO ALLOW FOR 7" OF TOTAL ADJUSTMENT IN LENGTH. IF FIELD CONDITIONS REQUIRE ADDITIONAL ADJUSTMENT AND LATERAL BRACES ARE TOO LONG, THEY MAY BE CUT DOWN AND DRILLED TO FIT BY THE RACK INSTALLER. IF THEY ARE TOO SHORT, NEW LATERAL BRACES MAY BE ORDERED TO FIT AT THE PURCHASER'S EXPENSE.
5. ALL SCREW EXTENSIONS REQUIRE A MINIMUM OF 1 INCH EMBEDMENT BELOW GRADE.
6. DIAGONAL BRACING IS REQUIRED IF EITHER OF THE SCREW EXTENSIONS FOR A SINGLE FOUNDATION HAVE MORE THAN 18" OF TUBE MATERIAL ABOVE GRADE.

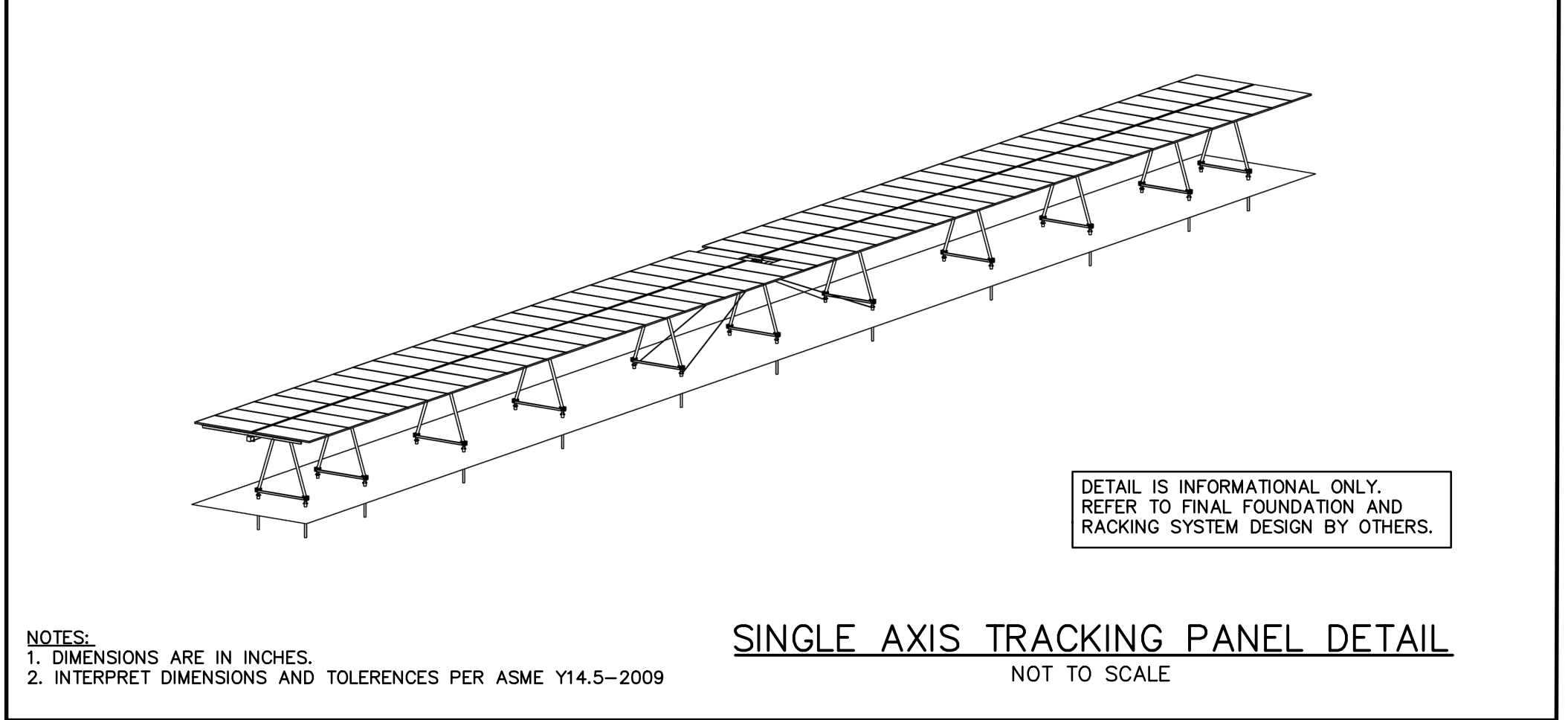
**SINGLE AXIS TRACKING PANEL DETAIL**  
NOT TO SCALE



**NOTES:**

1. DIMENSIONS ARE IN INCHES.
2. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITHIN THE TOLERANCES PROVIDED.

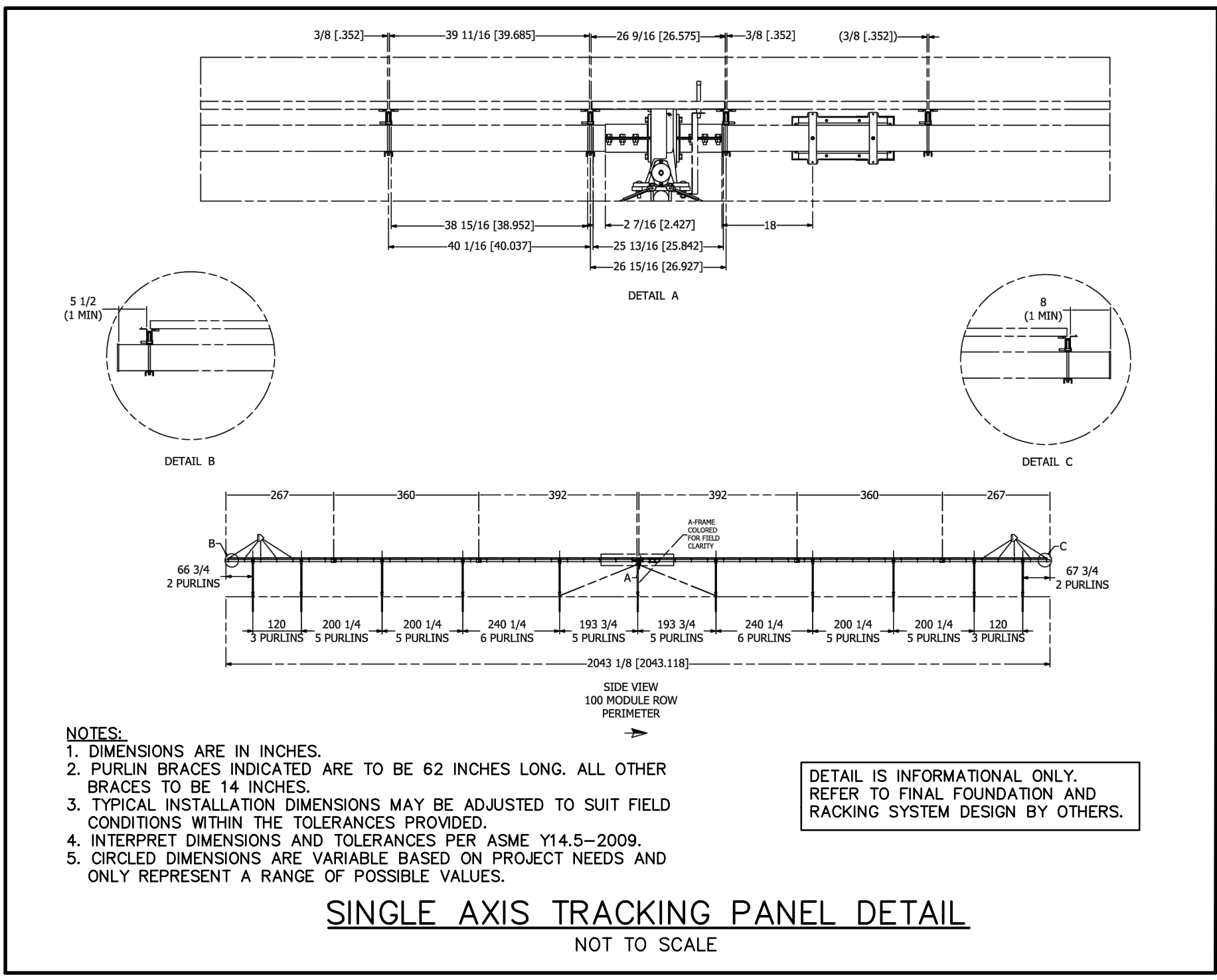
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**NOTES:**

1. DIMENSIONS ARE IN INCHES.
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009

**SINGLE AXIS TRACKING PANEL DETAIL**  
NOT TO SCALE



**NOTES:**

1. DIMENSIONS ARE IN INCHES.
2. PURLIN BRACES INDICATED ARE TO BE 62 INCHES LONG. ALL OTHER BRACES TO BE 14 INCHES.
3. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITHIN THE TOLERANCES PROVIDED.
4. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009.
5. CIRCLED DIMENSIONS ARE VARIABLE BASED ON PROJECT NEEDS AND ONLY REPRESENT A RANGE OF POSSIBLE VALUES.

**SINGLE AXIS TRACKING PANEL DETAIL**  
NOT TO SCALE

