

PERMIT DESIGN SUBMITTAL  
**WEAVER WIND**

EASTBROOK, OSBORN, T16MD, HANCOCK COUNTY, MAINE

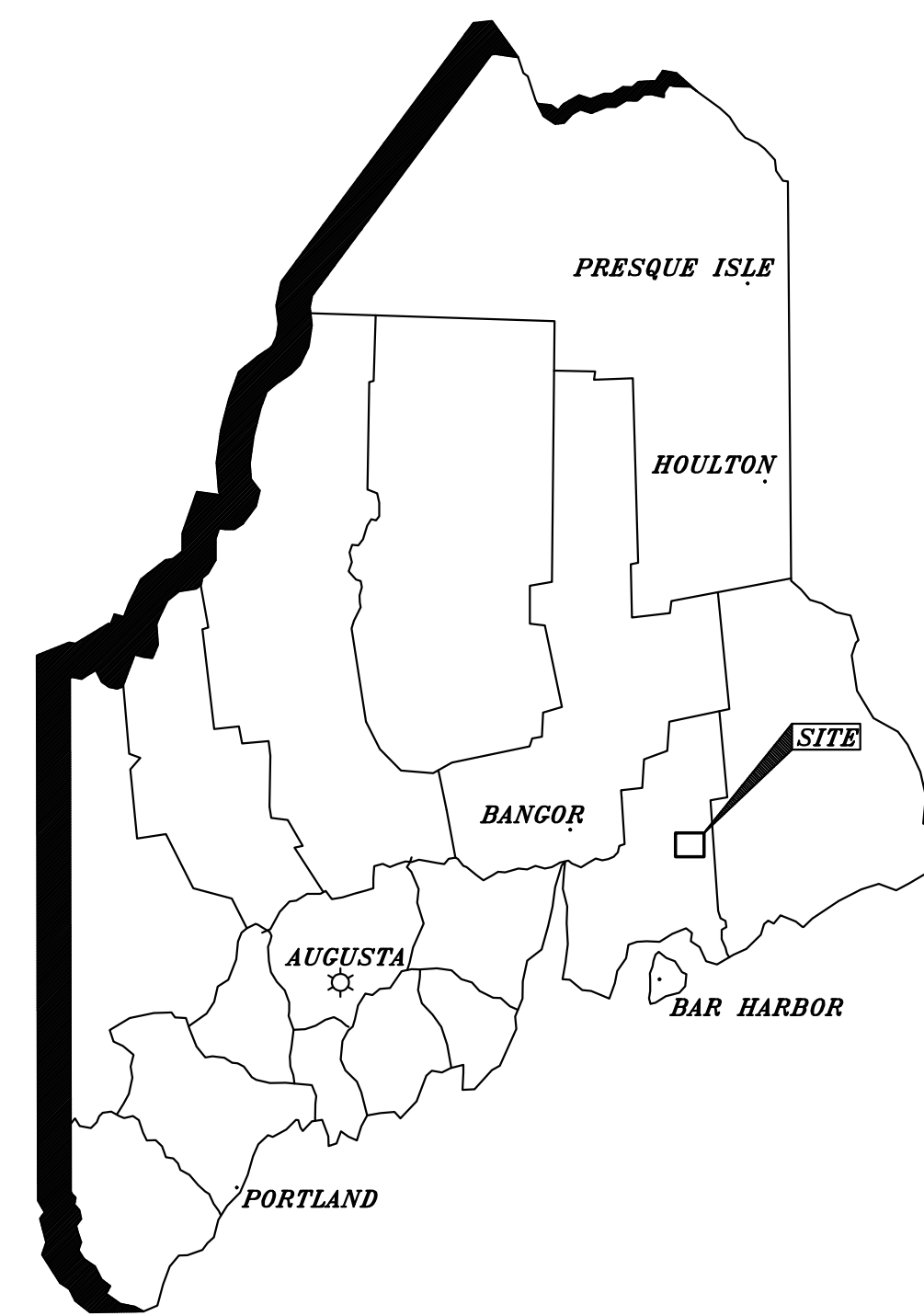
PREPARED FOR WEAVER WIND, LLC

84176E

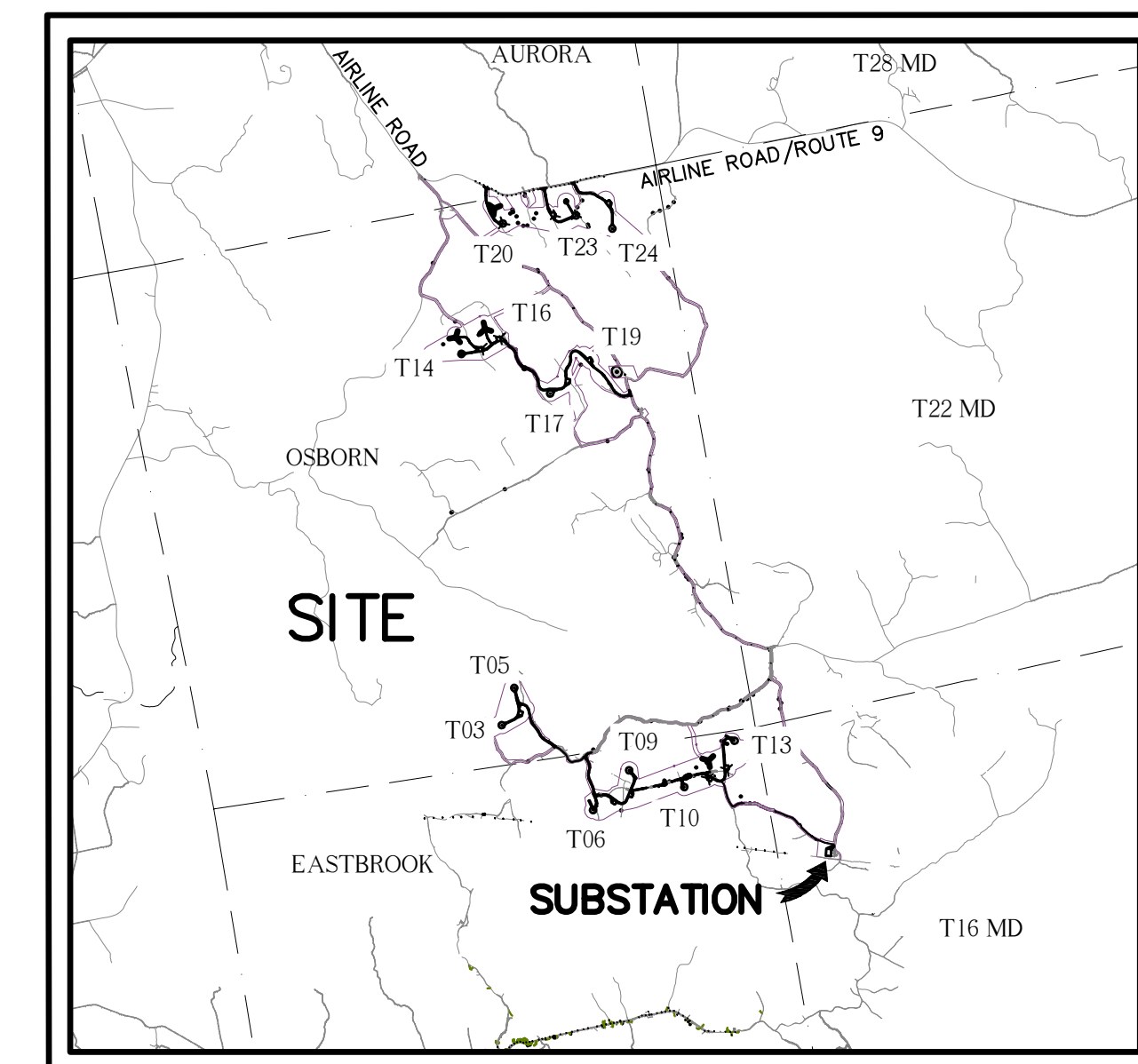
OCTOBER 29, 2018

SHEET INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
	COVER
1	SITE INDEX
3	GRAVEL PIT LAYDOWN AREAS
4-6	DETAILS
7-8	MET TOWER SITE PLANS
9	SUBSTATION
11-15	BIRCH AND HARDWOOD HILLS ACCESS ROAD AND CRANE PATHS (T20-T25)
16-22	EEN AND WEAVER RIDGES ACCESS ROADS AND CRANE PATHS (T14-T19)
23 - 33	LITTLE BULL HILL ACCESS ROADS AND CRANE PATHS (T03-T13)
34-40	ACCESS IMPROVEMENTS AND CLEARING IMPACTS



LOCUS MAP



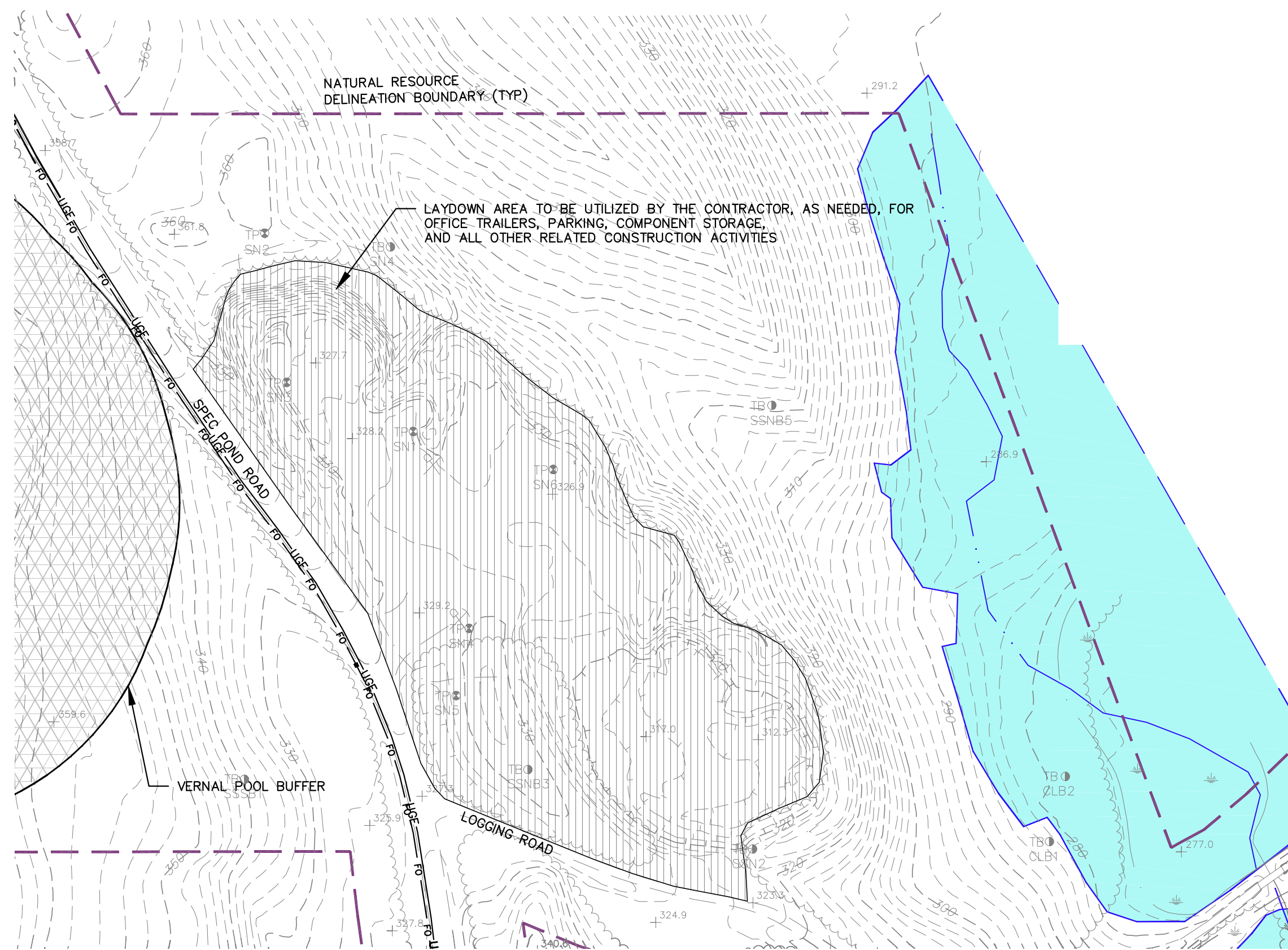
VICINITY MAP

DESIGN TEAM:



**NOT FOR CONSTRUCTION**

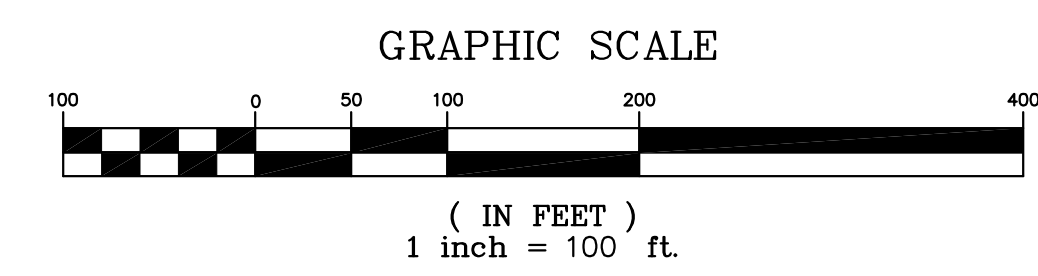
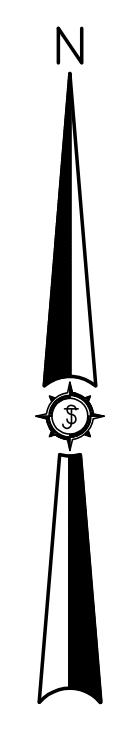
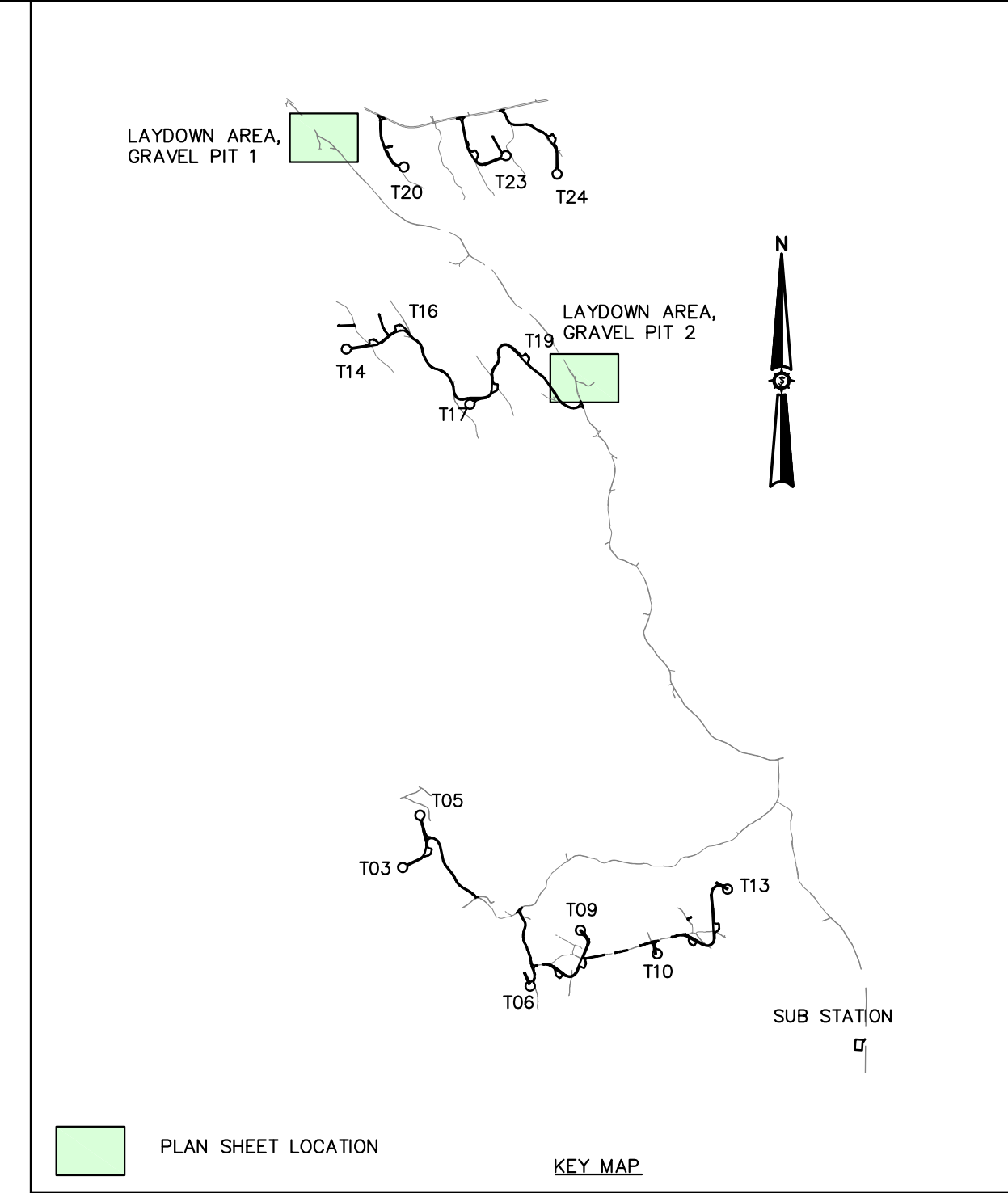




LAYDOWN AREA GRAVEL PIT 2



LAYDOWN AREA GRAVEL PIT 1



NOT FOR CONSTRUCTION

Project No.	84176E
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC
Project Location	129 MIDDLE STREET PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Project No.	3
Phase	PERMIT
Sheet No.	3
Drawn By	JAC/NT
Checked By	JAO
Designated By	BCH
Date	10/29/2018
Scale	
Approved	BCH
Checked	JAO
Drawing Description	ISOLATED LAYDOWN AREAS
Professional Seal	
Company Name	SEWALL AN INTEGRATED TEAM OF GEOSPATIAL ENGINEERING, SURVEYING AND NATURAL RESOURCE CONSULTANTS JAMES W. SEWALL COMPANY / Since 1880 SEWALL.COM 800.648.4202

**GENERAL NOTES & CONSTRUCTION SPECIFICATIONS**

- EVERY WEEK AND AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF ONE-HALF INCH OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL OF SEDIMENT FROM SILT FENCES IF SOIL ACCUMULATES TO A DEPTH OF ONE-HALF THE FABRIC HEIGHT AND REMOVAL OF EXCESS ACCUMULATED SEDIMENT FROM DETENTION BASINS (IF APPLICABLE).
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "MAINE EROSION & SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS" BY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES, INCLUDING MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL.
- SEE DETAILS FOR SLOPE STABILIZATION OPTIONS.
- CONTRACTOR SHALL ADJUST CULVERT INVERT ELEVATIONS AND DITCHLINE AS NECESSARY TO PROVIDE APPROPRIATE COVER AND POSITIVE DRAINAGE.

**CONSTRUCTION SEQUENCE & PHASING NOTES**

**CLEARING OF VEGETATION AND STOCKPIILING OF TOPSOIL**

- INSTALL EROSION CONTROL MEASURES PRIOR TO SOIL DISTURBANCE.
- FLAG & MARK CLEARING LIMITS OF ACCESS ROADS, CRANE PATHS, & COLLECTION LINES, WITH THE OTHER CONSTRUCTION AREAS TO FOLLOW.
- STUMPS TO BE REMOVED FROM LOCATIONS WHERE STRUCTURES (i.e., ROADS, TURBINES, SUBSTATION, ORB BUILDING, STORMWATER MANAGEMENT SYSTEMS, ETC.) ARE TO BE INSTALLED/CONSTRUCTED. STUMPS TO BE BURIED IN PLACE OR GROUND ON-SITE AND USED AS AN EPSC MEASURE BY THE CONTRACTOR.
- CLEARING AND TEMPORARY EARTHWORK WILL BE PERMITTED BEYOND CLEARING/EARTHWORK LIMITS SHOWN ON THE DESIGN TO PROVIDE APPROPRIATE COMPONENT DELIVERY CLEARANCES. CLEARING WILL ALSO BE PERMITTED BEYOND DEPICED CLEARING LIMITS, AS NEEDED, TO FACILITATE INSTALLATION OF UNDERGROUND COLLECTOR LINE ALONG THE ROADSIDE OF NARROW ROADS. CONTRACTOR SHALL MINIMIZE DISTURBANCE OUTSIDE FLAGGED CLEARING LIMITS TO SMALLEST EXTENT PRACTICABLE AND SHALL AVOID PROTECTED NATURAL RESOURCES, UNLESS OTHERWISE NOTED.
- ADDITIONAL CLEARING ADJACENT TO PROPOSED DEVELOPMENT MAY BE REQUIRED IN LOCATIONS WHERE NEW GROWING HAS ESTABLISHED SINCE PROJECT MAPPING WAS COMPLETED.
- LOW GROWING VEGETATION TO REMAIN, WHERE FEASIBLE TO PROVIDE SOIL STABILITY.
- EXISTING TOPSOIL IN AREAS OF DEVELOPMENT TO BE STOCKPILED ON-SITE FOR USE IN FINAL STABILIZATION OF TURBINE CLEARINGS, LAY DOWN AREAS, ETC.
- MULTIPLE LAYERS OF SEDIMENTATION PROTECTION SHALL BE INSTALLED AROUND TOPSOIL STOCKPILES TO PROTECT DOWN STREAM RESOURCES.

**CONSTRUCTION OF ACCESS ROADS, CRANE PATHS, & LAY DOWN/STAGING AREAS**

- MINOR GRADING CHANGES INCLUDING VERTICAL AND HORIZONTAL ADJUSTMENTS MAY BE NECESSARY, DEPENDING ON FIELD CONDITIONS. CONTRACTOR MAY COMPLETE HORIZONTAL AND VERTICAL ADJUSTMENTS TO ROADWAY ALIGNMENT IN ORDER TO OPTIMIZE EARTHWORK BALANCING. THESE MODIFICATIONS SHALL NOT INCREASE THE TOTAL PROJECT FOOTPRINT OR INTENT OF STORMWATER DRAINAGE DESIGN. IN ADDITION, THESE MODIFICATIONS SHALL IN NO WAY HINDER DELIVERY OF COMPONENTS OR CONSTRUCTIBILITY OF PROJECT IN GENERAL. CONTRACTOR SHALL RECORD ALL MODIFICATIONS FOR INCLUSION IN PROJECT AS-BUILT DRAWINGS.
- CONSTRUCTION OF ACCESS ROADS, CRANE PATHS, & LAY DOWN/STAGING AREAS WILL OCCUR IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL AT ANY ONE TIME (INCLUSIVE OF ANY OTHER EXPOSED SOIL AREAS WITHIN THE DESIGNATED LIMITS OF DISTURBANCE).
- ACCESS SHALL BE MAINTAINED TO EXISTING ROADS BISECTED BY PROPOSED PROJECT ROADS, PER LANDOWNER REQUIREMENTS. CLEARING AND EARTHWORK NECESSARY TO MAINTAIN ACCESS WILL BE PERMITTED BEYOND DEPICED CLEARING AND EARTHWORK LIMITS SHOWN ON THIS DESIGN BUT WILL AVOID PROTECTED NATURAL RESOURCES.

**CONSTRUCTION OF RIDGELINE COLLECTOR**

- EARTHWORK (SUCH AS BENCHING) MAY BE REQUIRED FOR CONSTRUCTION OF COLLECTOR LINE FOR THE PURPOSE OF STABILIZING CONSTRUCTION EQUIPMENT AND GAINING ACCESS TO COLLECTOR STRUCTURES. APPROPRIATE EARTHWORK BMP'S WILL BE UTILIZED DURING THESE ACTIVITIES AND AREAS WILL BE ALLOWED TO REVEGETATE UPON COMPLETION OF CONSTRUCTION.
- CLEARING BEYOND DEPICED CLEARING LIMITS MAY BE REQUIRED FOR INSTALLATION OF GUY ANCHORS AND REMOVAL OF DANGER TREES.

**CONSTRUCTION OF PERMANENT STORMWATER MANAGEMENT SYSTEMS**

- GRADING TO BE CONDUCTED IN ACCORDANCE WITH PERMITTED PERMANENT STORMWATER MANAGEMENT DESIGN.
- ONCE FINAL GRADES ARE ACHIEVED, EXPOSED SOIL SURROUNDING THE STORMWATER MANAGEMENT STRUCTURES TO BE PERMANENTLY STABILIZED.
- FINAL LOCATIONS OF STORMWATER STRUCTURES SHALL BE FIELD DETERMINED BASED UPON EXISTING TOPOGRAPHY BUT SHALL GENERALLY MEET THE INTENT OF THE STORMWATER DESIGN PLANS. CLEARING WILL BE PERMITTED BEYOND CLEARING LIMITS SHOWN ON THIS DESIGN TO ALLOW CONSTRUCTION OF STORMWATER MANAGEMENT SYSTEMS (SUCH AS LEVEL SPREADERS, DITCH TURNOUTS, ETC.), WHILE CONSTRUCTING STORMWATER MANAGEMENT SYSTEMS. CONTRACTOR SHALL MINIMIZE DISTURBANCE OUTSIDE FLAGGED CLEARING LIMITS TO SMALLEST EXTENT PRACTICABLE AND SHALL AVOID PROTECTED NATURAL RESOURCES.

**CONSTRUCTION OF CRANE PADS**

- AFTER THE SUBGRADE IS ESTABLISHED, CRANE PAD TO BE CONSTRUCTED WITH APPROPRIATE AGGREGATE MATERIAL SPREAD & COMPACTED OVER A GEOTEXTILE LINER AS NECESSARY; MINOR GRADE ADJUSTMENTS MAY BE NEEDED DEPENDENT ON FIELD CONDITIONS.
- CRANE PADS TO REMAIN IN PLACE FOR FUTURE MAINTENANCE & OPERATION.
- EXPOSED SOIL SURROUNDING CRANE PADS & TURBINE FOUNDATIONS TO BE STABILIZED. (SEE DETAIL)

**CLEAN-UP & FINAL STABILIZATION**

- UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL WORK AREAS TO BE CLEARED OF CONSTRUCTION DEBRIS & OTHER MATERIALS.
- SPECIFIC CLEAN-UP REQUIREMENTS TO INVOLVE: REMOVAL OF ALL TEMPORARY WORK TRAILERS, REMOVAL OF MATERIAL & EQUIPMENT, DISPOSAL OF ALL RUBBISH RESULTING FROM CLEARING, CONSTRUCTION, & INSTALLATION; ROUGH GRADING & STABILIZATION OF EMBANKMENTS MADE FOR CONSTRUCTION PURPOSES; FILLING OF ANY EXCAVATIONS; & REPAIRING RUTS IN ACCESS ROADS.
- FINAL STABILIZATION OF ALL AREAS OF DISTURBED SOIL, WHERE FINAL GRADE HAS BEEN ACHIEVED, WILL INVOLVE RESPRADING OF STOCKPILED TOPSOIL MATERIAL & SEEDING, MULCHING WITH WOODWASTE MULCH, OR APPLICATION OF OTHER APPROVED STABILIZATION METHODS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE PROJECTS PERMITS AND PLANS.
- LAYDOWN AREAS SHALL BE ALLOWED TO REVEGETATE WITHIN ONE YEAR. CONTRACTOR SHALL REGRADE AS NECESSARY TO AVOID CONCENTRATED FLOWS.

**TURBINE FOUNDATIONS**

- ELEVATIONS OF TURBINE FOUNDATIONS ARE BASED ON AERIAL SURVEY. FINAL ELEVATIONS OF FOUNDATIONS MAY BE ADJUSTED IN FIELD TO ACCOMMODATE ACTUAL TERRAIN CONDITIONS AND REDUCE IMPACTS.
- FOUNDATION DRAIN MAY BE PROVIDED AT FOUNDATIONS AS SPECIFIED BY FOUNDATION CONSTRUCTION PLANS.

**WINTER CONSTRUCTION NOTES**

- THE WINTER CONSTRUCTION PERIOD SHALL BE FROM NOVEMBER 1 THROUGH APRIL 15.
- WHERE FEASIBLE, A MINIMUM 25-FT BUFFER SHALL BE MAINTAINED BETWEEN SILT FENCE OR OTHER PERIMETER CONTROLS AND ROADS TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.
- DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- ACCEPTABLE OVER-WINTER STABILIZATION SHALL CONSIST OF VEGETATION (MIN. 75% MATURE) MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP OR GRAVEL ROAD BASE.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT REQUIRE EARTH DISTURBANCE (E.G., CONSTRUCTION FENCE AND SILT FENCE) SHALL BE INSTALLED PRIOR TO THE GROUND FREEZING. DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS.
- FROM NOVEMBER 1 TO APRIL 15, MULCH SHALL BE INSTALLED AT DOUBLE THE NORMAL RATE. NETTING OR OTHER MEANS APPROVED BY THE ENGINEER SHALL BE USED TO MINIMIZE WIND EROSION OF MULCHING.
- PRIOR TO STABILIZATION, ICE AND SNOW SHALL BE REMOVED TO LESS THAN 1-IN.
- EXCAVATED FROZEN SOILS SHALL BE STOCKPILED IN LEVEL AREAS AND SHALL NOT BE USED UNTIL THAWED. SEE STOCKPIILING NOTES.
- EXCAVATION OF SOILS IN SHALLOW GROUNDWATER AREAS SHALL BE MINIMIZED IF AT ALL POSSIBLE DURING WINTER, AND LIMITED TO ONLY THOSE AREAS THAT CAN BE STABILIZED DURING THE SAME DAY.
- TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
  - IF NO PRECIPITATION OR MELTING EVENT IS FORECAST WITHIN 24 HOURS AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
  - DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS BUILDING FOUNDATIONS AND OPEN UTILITY TRENCHES.
- ENGINEER MAY MAKE NECESSARY ADJUSTMENTS TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND ASSOCIATED EROSION PREVENTION AND SEDIMENT CONTROL MEASURES (E.G., CONSTRUCTION FENCE AND SILT FENCE) TO ACCOMMODATE ANTICIPATED SNOW STORAGE AREAS.
- AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCE, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL COVER. DURING WINTER CONSTRUCTION A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. NATURAL RESOURCE CROSSINGS SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.
- STOCKPILES OF SOIL SHALL BE MULCHED FOR OVER-WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX.
- MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STOP OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN THE SPRING, INSPECT AND REPAIR ANY DAMAGES OR BARE SPOTS.
- WINTER CONSTRUCTION SHALL BE IN ACCORDANCE WITH REGULATORY PERMIT. PERMIT REQUIREMENTS SHALL SUPERCEDE ANY DISCREPANCY IN ABOVE LISTED NOTES.

**NOTES:**

**TEMPORARY SEEDING NOTES**

- ANY DISTURBED AREAS TO BE LEFT IN ROUGH GRADED FORM FOR MORE THAN 30 DAYS (7 DAYS FOR SENSITIVE AND CRITICAL AREAS) BUT LESS THAN ONE GROWING SEASON SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED OR OTHERWISE STABILIZED.
- EXPOSED OR BARE SOIL IN SENSITIVE AND CRITICAL AREAS ARE TO BE MULCHED AT THE COMPLETION OF WORK EACH DAY, IF SIGNIFICANT RAINFALL IS PREDICTED.
- APPLICATION RATES AND MATERIALS USED SHALL BE THE SAME AS FOR PERMANENT SEEDING EXCEPT SEED MIXTURE SHALL BE ANNUAL RYEGRASS.

**PERMANENT SEEDING NOTES**

- DURING PERIODS FROM APRIL 15 TO SEPTEMBER 15, AREAS DISTURBED SHALL BE PERMANENTLY SEEDED WITH CONSERVATION SEED MIX (A MIXTURE OF CREEPING RED FESCUE, REDTOP, TALL FESCUE, CLOVER AND ANNUAL RYE), AT A RATE OF 1.0 LB/1,000 SF.

**SPECIFIC MAINTENANCE INSTRUCTIONS:**

- STRAW/HAY BALE BARRIERS, SILT FENCE, FILTER BARRIERS – MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REPLACE W/ TEMPORARY CHECK DAM IF THERE IS UNDERCUTTING AT CENTER OR EDGES, OR IF LARGE VOLUMES OF WATER ARE IMPOUNDED. REPLACE DECOMPOSED OR INEFFECTIVE FABRIC IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AFTER EACH STORM. DEPOSITS REMAINING IN PLACE AFTER SILT FENCE OR FILTER FABRIC IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM W/ EXISTING GRADE, PREPARED AND STABILIZED.
- CULVERTS – CULVERTS SHOULD BE CHECKED MONTHLY FOR ACCUMULATION OF DEBRIS. IF NEEDED THEY SHOULD BE CLEANED.
- A STORMWATER MAINTENANCE LOG SHOULD BE MAINTAINED TO DOCUMENT COMPLIANCE WITH THE SUGGESTED SCHEDULE.

**DEWATERING**

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DEWATERING EXCAVATIONS DURING CONSTRUCTION.
- CONTRACTOR SHALL DISPOSE OF PUMPED WATER IN APPROPRIATE MANNER TO AVOID CONCENTRATED FLOWS FROM SITE. THE USE OF SETTLEMENT BASINS OR SEDIMENT CONTROL DEVICES SUCH AS "DIRTBAGS" AND TEMPORARY SEDIMENT BASINS SHALL BE EMPLOYED TO SEPARATE SEDIMENTS FROM DEWATERING ACTIVITIES AS NECESSARY. PUMPED WATER WILL BE DIRECTED AWAY FROM RESOURCES TO NATURAL BUFFER AREAS OR OTHER ACCEPTABLE STABILIZED AREAS. METHODS OF DEWATERING AND THE SEDIMENT CONTROL DEVICES SHALL BE APPROVED BY THE ENGINEER AT EACH LOCATION.
- DURING TEMPORARY DEWATERING ACTIVITIES CONTRACTOR SHALL OUTLET FLOWS TO SEDIMENT CONTROL DEVICES. THESE DEVICES SHALL BE LOCATED ON UNDISTURBED SOILS THAT ARE CAPABLE OF ALLOWING SURFACE INFILTRATION OR IN NEAREST AVAILABLE ROADSIDE DITCH. PERMANENT OUTLETS LOCATED WITHIN DITCH LINES SHALL BE STABILIZED WITH RIPRAP. PERMANENT OUTLETS LOCATED IN WOODED AREAS SHALL BE STABILIZED WITH RIPRAP FOLLOWED BY A LEVEL SPREADER TO ELIMINATE CONCENTRATED FLOWS. ALL OUTLETS SHALL HAVE STAINLESS STEEL RODENT SCREENS.
- IN LOCATIONS WHERE OUTLET REQUIRES THE PLACEMENT OUTSIDE THE DEPICED CLEARING LIMITS CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO SMALLEST EXTENT PRACTICABLE AND SHALL AVOID PROTECTED NATURAL RESOURCES.

**STONE BERMED LEVEL LIP SPREADER SIZES WITH BUFFERS**

Spec Pond (Osborn) Watershed			
BMP Type & #	Roadway Align. or Turbine Site	Berm Length (ft)	Buffer Length (ft)
BL10	Access/Crane T23	50	100
BL11	Access/Crane T23	24	75
BL22	Access/Crane T24	40	100
BL23	Access/Crane T24	38	100
BL24	Access/Crane T24	25	75
BL25	Access/Crane T24	40	150
BL26	Access Een Ridge	12	75
BL27	Access Een Ridge	13	75
BL28	Access Een Ridge	17	75
BL29	Access Een Ridge	21	75
BL30	Access Een Ridge	9	75
BL31	Access Een Ridge	20	100
BL32	Access Een Ridge	11	75
BL33	Access Een Ridge	21	75
BL34	Access Een Ridge	21	75
BL35	Access Een Ridge	10	75
BL36	Access Een Ridge	14	75
BL37	Access Een Ridge	20	100
BL42	Crane P Een Ridge	22	100
BL43B	T16	52	150
BL44	Crane P Een Ridge	16	75
BL45	Crane P Een Ridge	20	75
BL46	Crane P Een Ridge	12	75
BL46A	Weaver Access Rd	28	75
BL46B	Weaver Access Rd	35	75
BL47	Weaver Access Rd	17	75
BL47A	Weaver Access Rd	27	75
BL48	Weaver Access Rd	31	75
BL48A	Weaver Access Rd	15	75
BL53	Weaver Crane Path	33	100
BL61	LBH West Access	33	75
BL62	LBH West Access	21	100
BL63	LBH West Access	17	75
BL64	LBH West Access	23	75
BL65	LBH West Access	20	75
BL66	LBH West Access	6	75
BL67	LBH West Access	21	100
BL68	LBH West Access	36	150
BL69	LBH West	19	100
BL70	LBH West	46	150

**STONE BERMED LEVEL LIP SPREADER SIZES WITH BUFFERS**

Graham Lake Watershed			
BMP Type & #	Roadway Align. or Turbine Site	Berm Length (ft)	Buffer Length (ft)
BL1	Access/Crane T20	15	75
BL2	Access/Crane T20	15	75
BL3	Access/Crane T20	12	75
BL4	MET PMT20	33	100
BL5	Access/Crane T20	23	75
BL6	Access/Crane T20	24	75
BL7	Access/Crane T23	26	100
BL8	Access/Crane T23	19	75
BL9	Access/Crane T23	46	150
BL17	Access/Crane T24	23	75
BL18	Access/Crane T24	24	100
BL19	Access/Crane T24	28	75
BL20	Access/Crane T24	40	100
BL21	Access/Crane T24	22	100
BL38	Crane P Een Ridge	36	100
BL39	Crane P Een Ridge	40	100
BL40	Crane P Een Ridge	42	100
BL41	Crane P Een Ridge	43	75
BL43	Crane P Een Ridge	34	150
BL49	Weaver Access Rd	20	100
BL50	Weaver Access Rd	12	75
BL51	Weaver Access Rd	20	75
BL52	Weaver Crane Path	44	100
BL54	Weaver Crane Path	39	150
BL55	Weaver Crane Path	36	100
BL56	Weaver Crane Path	51	100
BL57	Weaver Crane Path	29	75
BL58	MET PMT2223	10	100
BL59	MET PMT2223	20	100
BL60	MET PMT15/16	22	100
BL71	LBHW	17	75
BL72	LBHW	22	100
BL73	LBHW	22	75
BL74	LBHW	13	75
BL75	T4	34	150
BL78	LBH T6	21	75
BL79	LBH T6	32	75
BL80	LBH T6	29	75
BL81	LBH T6	16	75
BL82	LBH T6	17	75
BL82B	LBH T9	45	100
BL83	LBH T6	14	75
BL83B	LBH T9	34	100
BL84	LBH T9	41	75
BL85	LBH T9	19	100
BL89	LBH T9	34	100
BL90	LBH T11	25	100
BL105	MET PMT14	24	100
BL106	MET PMT14	35	150

**CULVERT AND LEVEL SPREADER SIZES WITHOUT BUFFERS**

North String				
Road Name	CL Station	Drainage Area (acres)	Culvert Diameter (in)	Level Spreader Length (ft)
Access/Crane T20	1+85	7.7	18	N/A
Access/Crane T20	8+25 right	0.1	15	N/A
Access/Crane T20	8+25 left	0.0	15	N/A
Access/Crane T20	9+00	0.1	15	See BL4
Access/Crane T20	14+95	0.9	15	See BL4
PMT20	1203+14 left	0.2	N/A	5
PMT20	1203+14 right	0.2	N/A	5
Access/Crane T23	100+67	4.0	15	N/A
Access/Crane T23	102+45	6.4	18	See BL7
Access/Crane T23	107+05	3.7	15	See BL8
Access/Crane T23	108+40 right	0.1	15	N/A
Access/Crane T23	110+40	14.1	24	See BL9
Access/Crane T23	110+60 left	14.1	24	N/A
Access/Crane T23	119+75	5.8	18	See BL10
Access/Crane T23	120+50 right	0.3	15	5
Access/Crane T23	122+40	4.2	15	18
Access/Crane T23	126+36	1.2	15	See BL11
Access/Crane T23	134+09 right	3.7	N/A	16
Access/Crane T23	T23 (east)	3.7	15	N/A
PMT 22/23	1220+06	2.0	15	9
PMT 22/23	1228+11 right	1.1	N/A	5
Access/Crane T24	242+00	12.3	24	See BL17
Access/Crane T24	247+20	1.5	15	See BL18
Access/Crane T24	247+50 right	12.4	24	2'26"
Access/Crane T24	251+50	1.4	15	See BL19
Access/Crane T24	254+30 left	1.4	15	N/A
Access/Crane T24	255+47	1.6	15	See BL20
Access/Crane T24	265+00	0.4	15	N/A
Access/Crane T24	270+70	1.0	15	See BL22
Access/Crane T24	271+75	0.1	15	15
Access/Crane T24	275+00	0.4	15	See BL23

**CULVERT AND LEVEL SPREADER SIZES WITHOUT BUFFERS**

Little Bull Hill West				
Road Name	CL Station	Drainage Area (acres)	Culvert Diameter (in)	Level Spreader Length (ft)
Access LBH West	706+20	12.4	24	See BL61
Access LBH West	709+00	0.7	15	See BL62
Access LBH West	712+80	0.2	15	See BL63
Access LBH West	715+10	4.4	15	19
Access LBH West	716+00	11.2	24	See BL64
Access LBH West	718+83	0.5	15	See BL65
Access LBH West	723+50	0.3	15	See BL67
Access LBH West	735+18	0.9	15	N/A

**CULVERT AND LEVEL SPREADER SIZES WITHOUT BUFFERS**

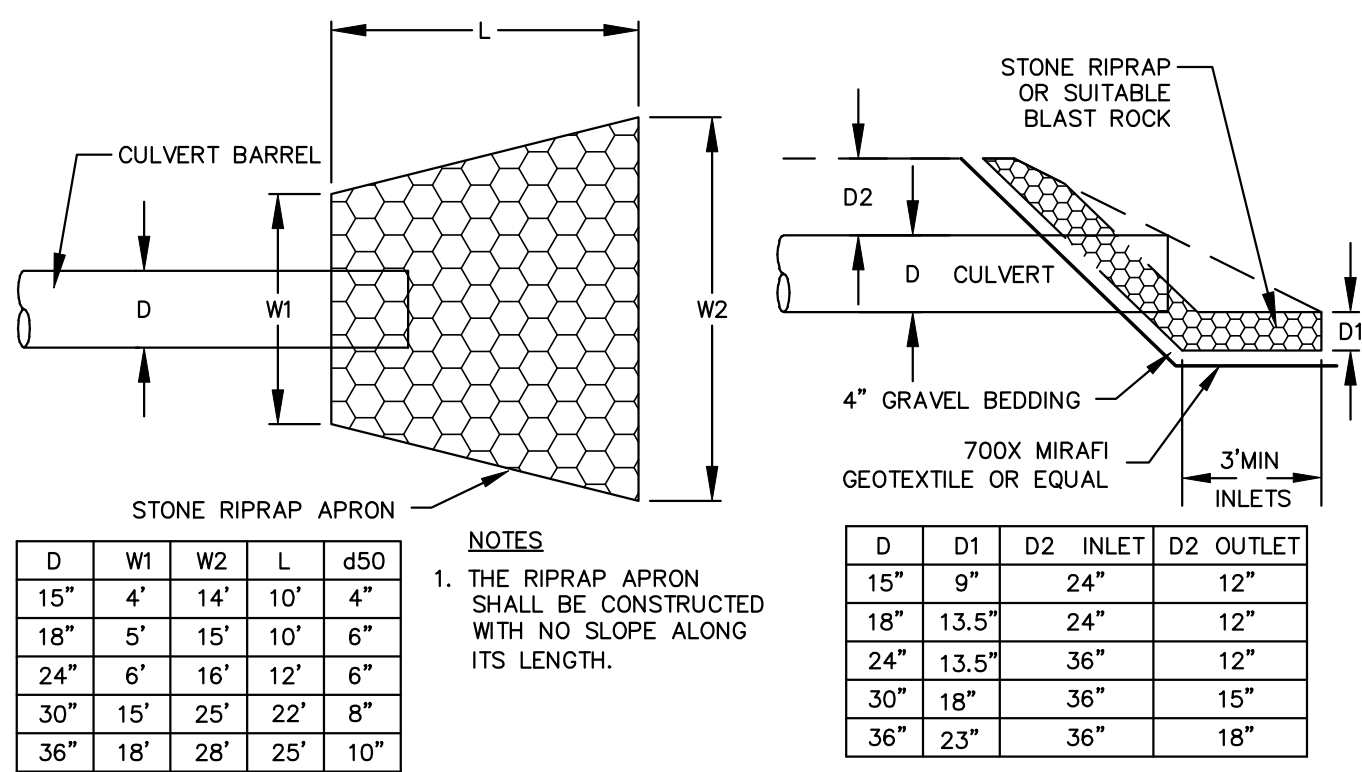
Substation				
Road Name	CL Station	Drainage Area (acres)	Culvert Diameter (in)	Level Spreader Length (ft)
Access RD	1+43	10.0	24	2-22
Hancock Access (exit)	0+20	1.2	15	See B29

**STONE BERMED LEVEL LIP SPREADER SIZES WITH BUFFERS**

Substation			
BMP Type & #	Roadway Align. or Turbine Site	Berm Length (ft)	Buffer Length (ft)
B29	Hancock Sub Access	69	150

**STONE BERMED LEVEL LIP SPREADER SIZES WITH BUFFERS**

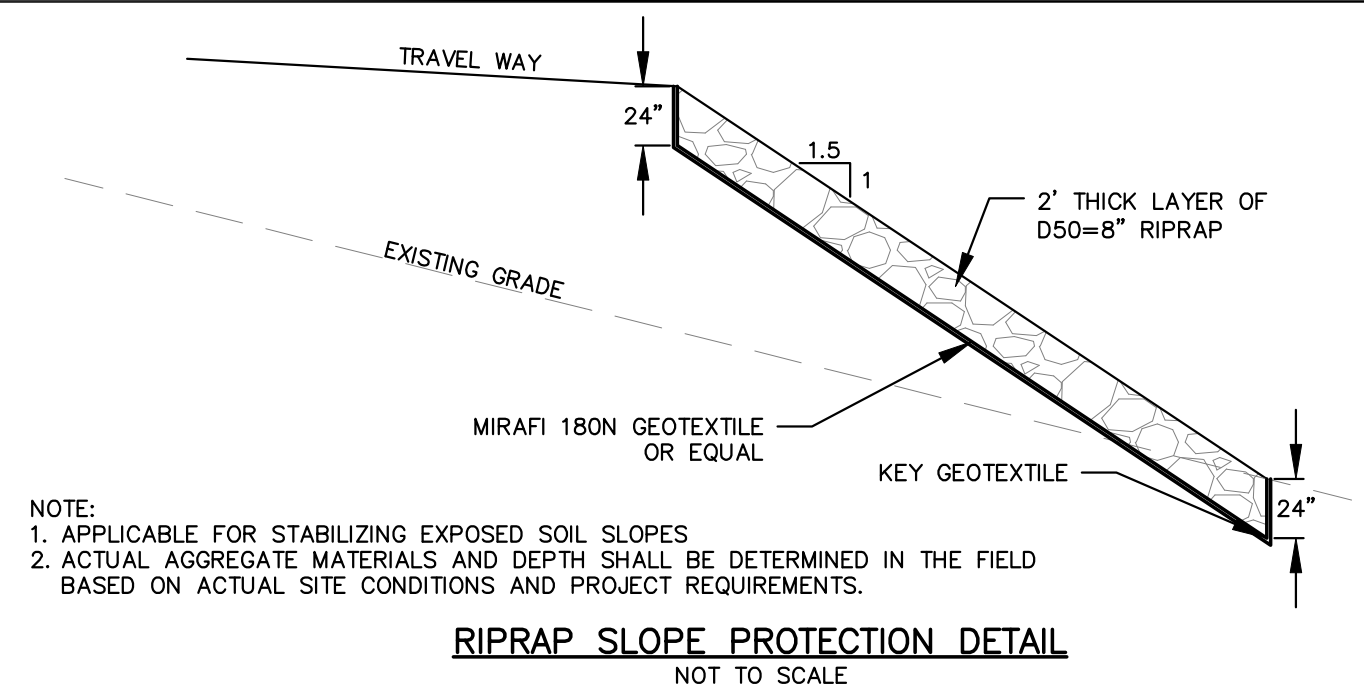
Spec Pond (Eastbrook) Watershed			
BMP Type & #	Roadway Align. or Turbine Site	Berm Length (ft)	Buffer Length (ft)
BL76	LBH T6	36	100
BL77	LBH T6	28	133
BL88	LBH T9	19	100
BL87	LBH T9	28	133
BL91	LBH T11	45	133
BL92	LBH T11	56	100
BL93	LBH T11	26	100
BL94	LBH T11	58	133
BL94A	LBH T11	53	133
BL95	LBH T11	52	133
BL96	LBH T11	27	133
BL97	LBH T11	20	133
BL98	LBH T11	18	100
BL99	LBH T11	50	133
BL100	LBH T11	22	100
BL101	LBH T11	48	133
BL102	LBH T11	10	100
BL103	LBH T11	21	100
BL104	LBH T11	33	133
BL107	PMT12	21	100



NOTE: APRONS SHALL BE CONSTRUCTED ON ALL CULVERT INLETS/OUTLETS UNLESS APPROVED BY ENGINEER.

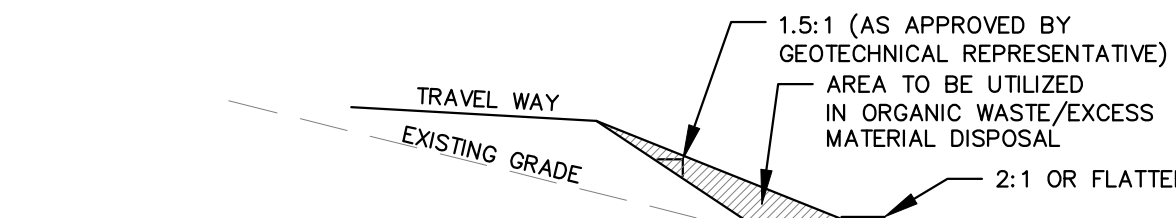
**CULVERT OUTLET DETAIL**  
PLAN VIEW  
NOT TO SCALE

**CULVERT INLET/OUTLET DETAIL**  
SECTION VIEW  
NOT TO SCALE



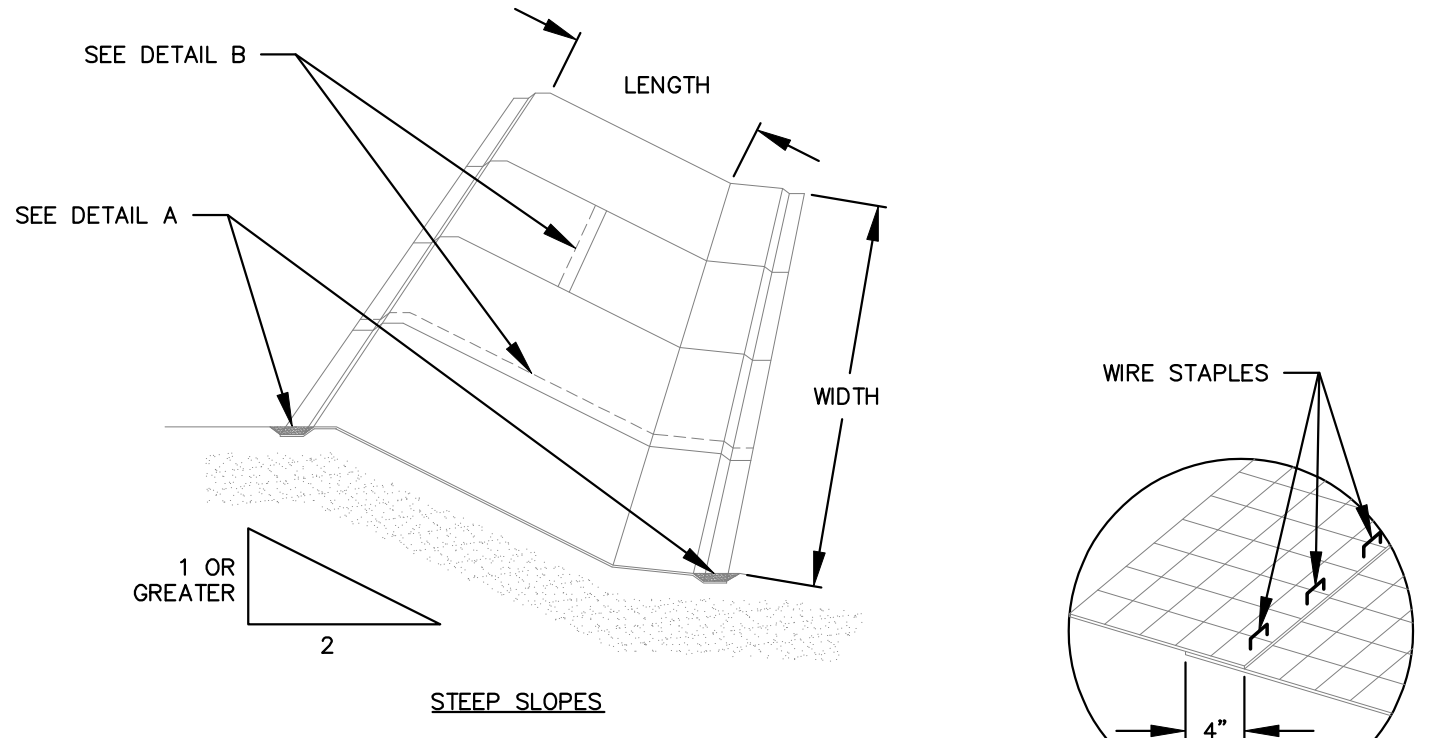
NOTE:  
1. APPLICABLE FOR STABILIZING EXPOSED SOIL SLOPES  
2. ACTUAL AGGREGATE MATERIALS AND DEPTH SHALL BE DETERMINED IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AND PROJECT REQUIREMENTS.

**RIPRAP SLOPE PROTECTION DETAIL**  
NOT TO SCALE

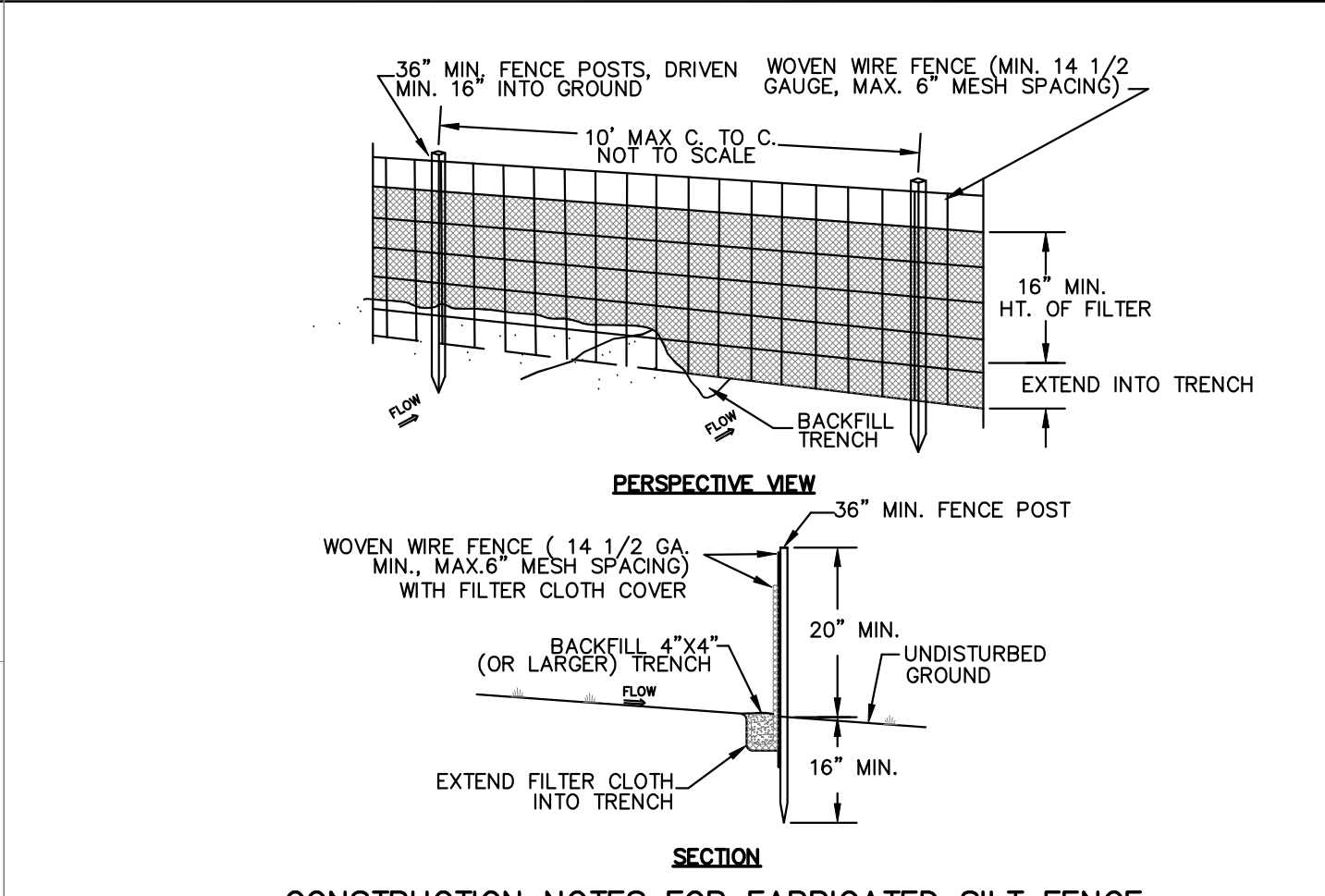


NOTE: DISPOSAL AREA LOCATIONS TO BE APPROVED BY ENGINEER.

**ORGANIC/DUFF WASTE DISPOSAL DETAIL**  
NOT TO SCALE



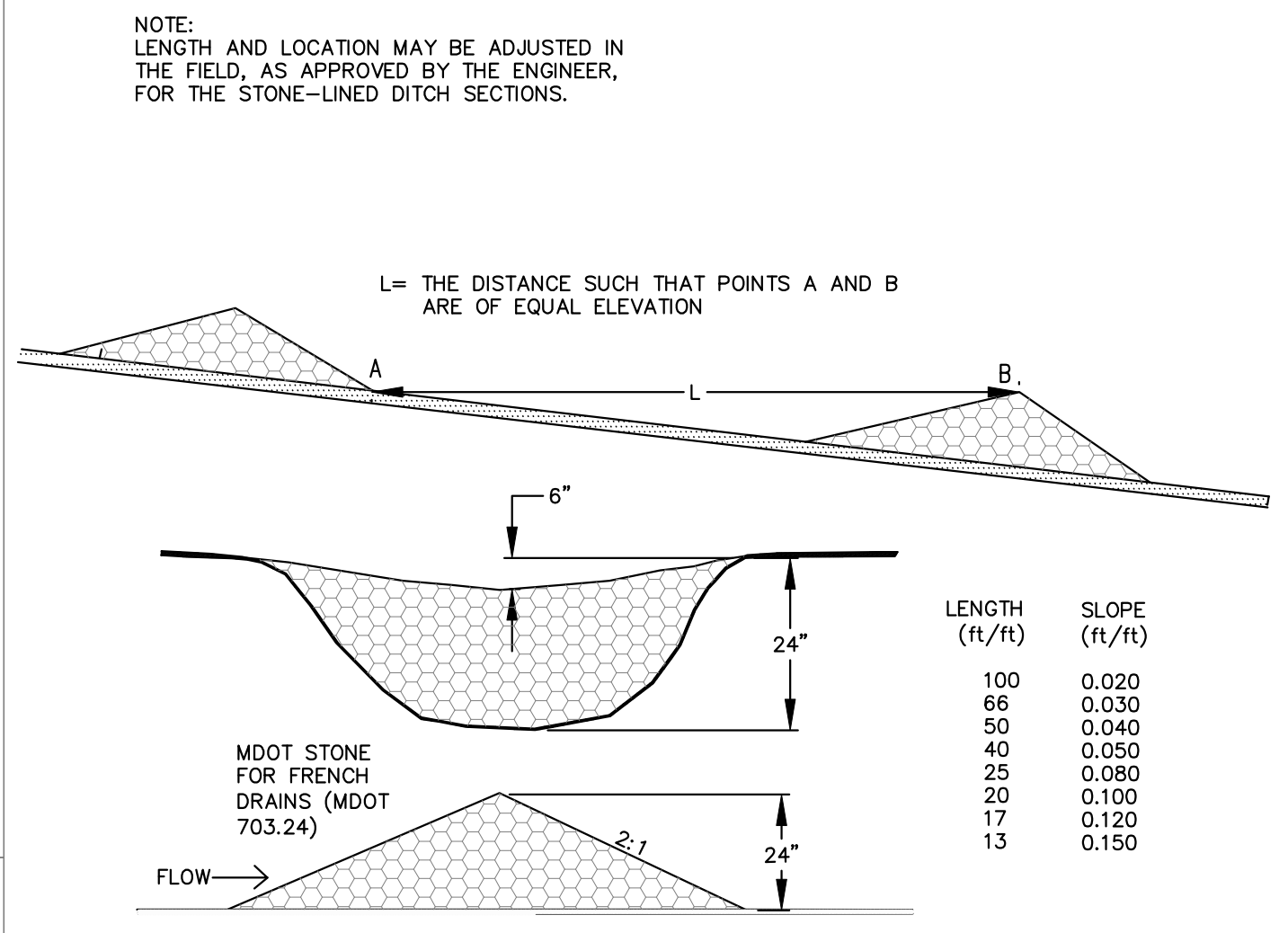
**SLOPE APPLICATION FOR EROSION CONTROL MESH**  
NOT TO SCALE



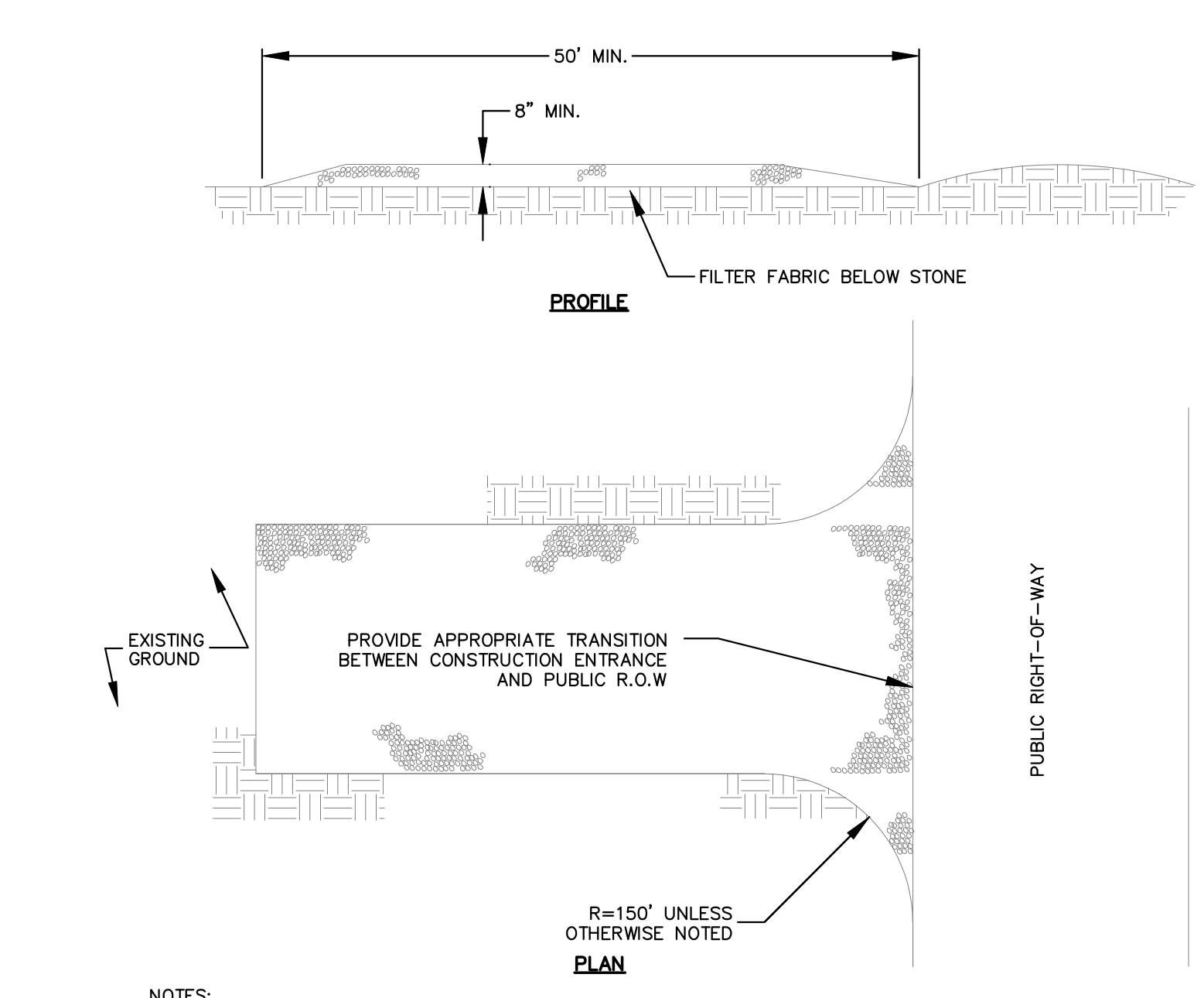
**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- NOTE: THE CONTRACTOR HAS THE OPTION TO NOT USE WOVEN WIRE MESH IF STAKE SPACERS ARE REDUCED TO 6' O.C.
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP OF MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
  - SILT FENCE SHOWN ON THE PLANS IS SYMBOLIC: ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOUR WITH EXACT LOCATION/ORIENTATION TO BE FIELD DETERMINED BASED ON ACTUAL SITE CONDITIONS.
  - NO MORE THAN 1/4 ACRE OF DRAINAGE AREA FOR EACH 100 FEET OF FENCING.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD  
FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING  
FILTER CLOTH: FILTER X, MIRAFIX 100X, STAB-LINKA T140N OR APPROVED EQUAL  
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

**SILT FENCE DETAIL**  
NOT TO SCALE

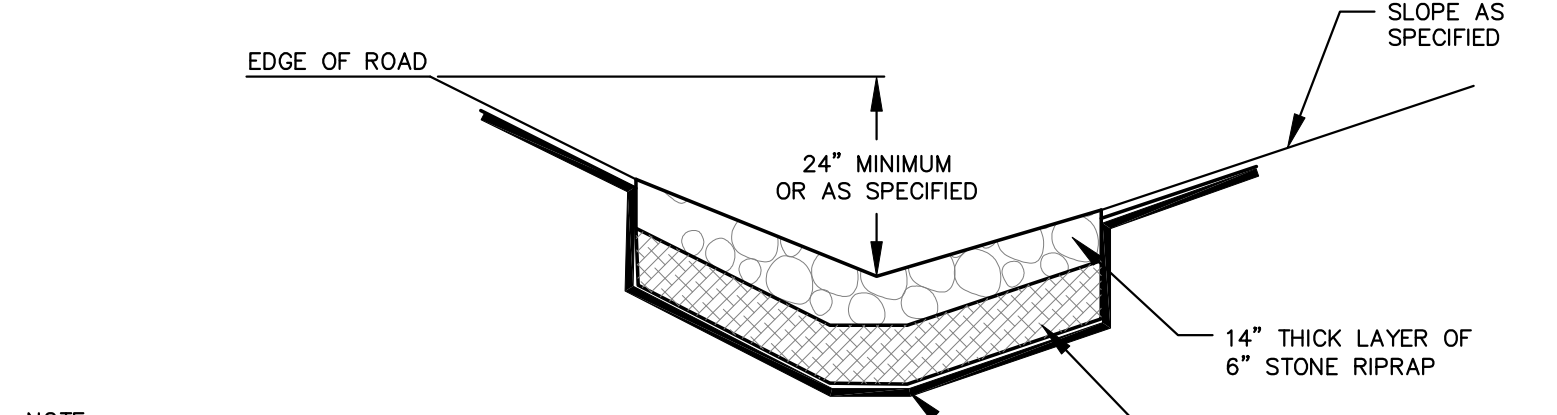
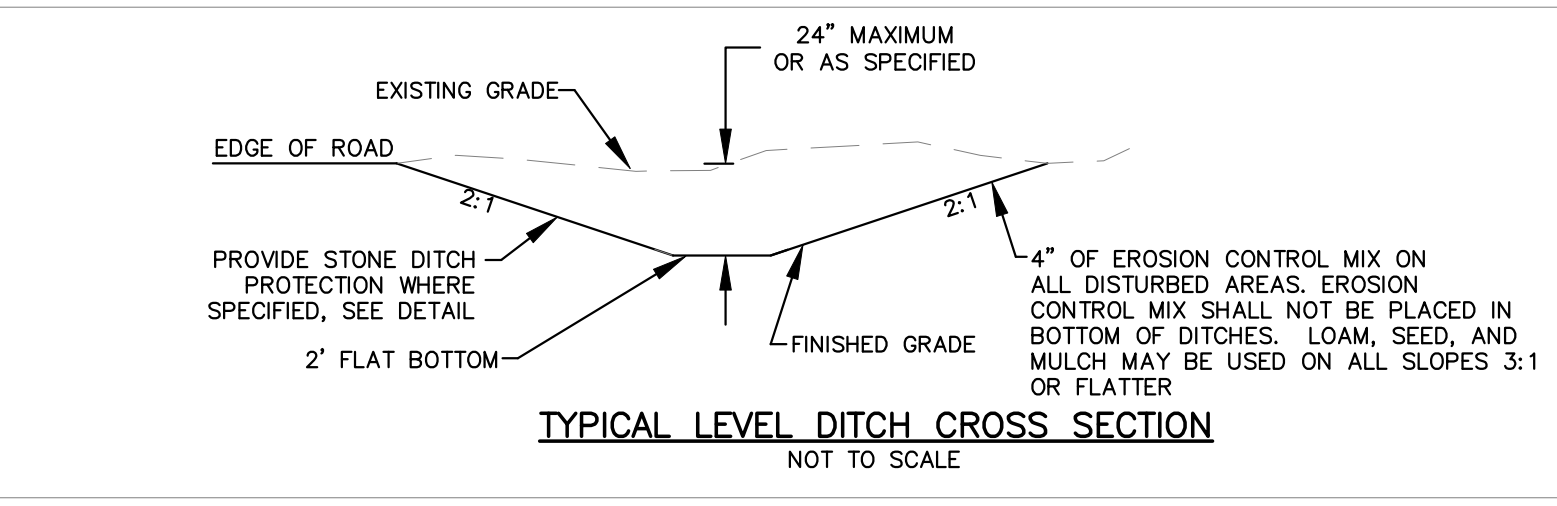


**STONE CHECK DAM DETAILS**  
NOT TO SCALE



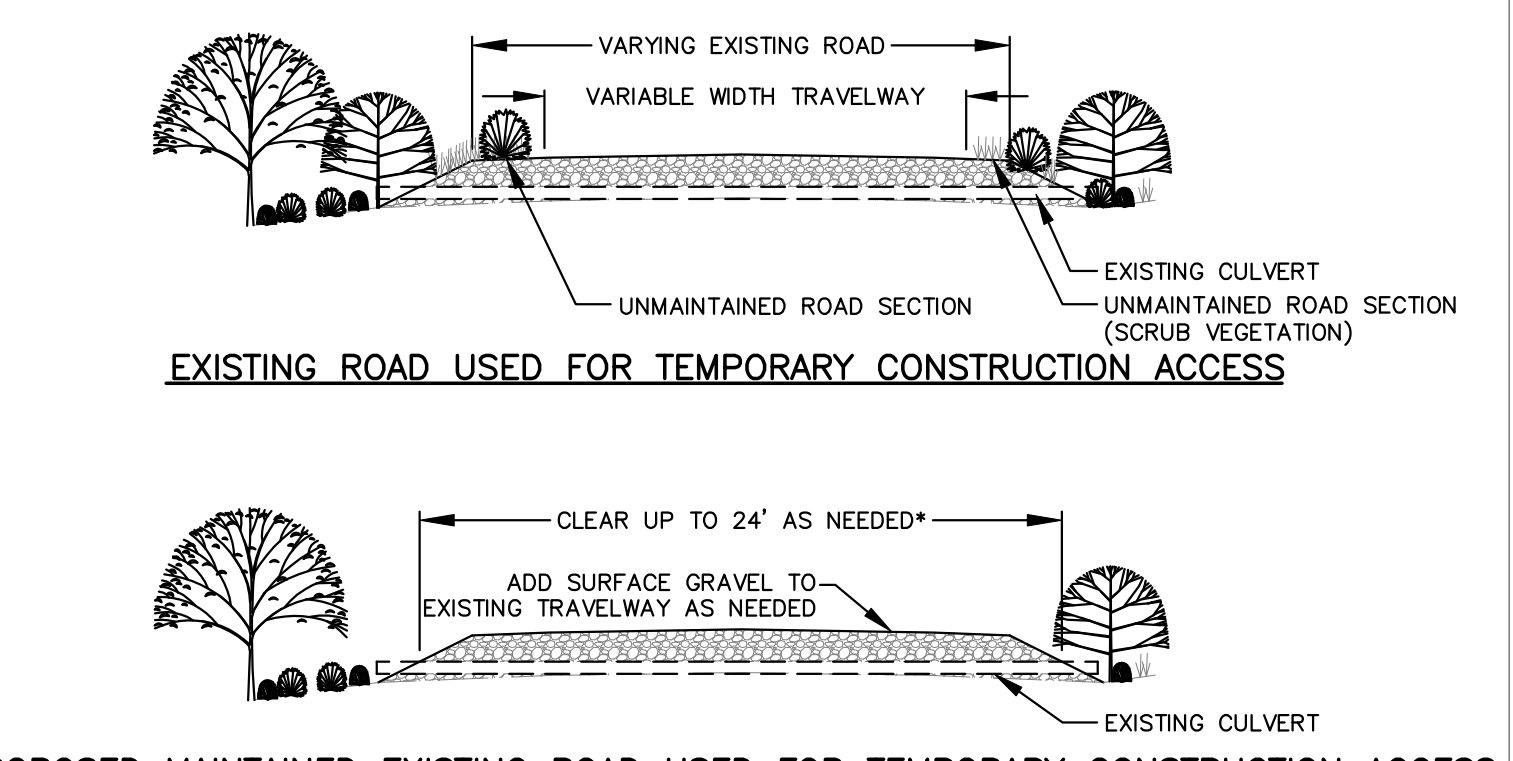
- NOTE:  
1. APPROXIMATE STONE SIZE - AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.  
2. LENGTH - AS SHOWN ON GRADING PLAN, MIN. 50 FEET.  
3. THICKNESS - APPROXIMATELY EIGHT (8) INCHES (MINIMUM).  
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.  
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



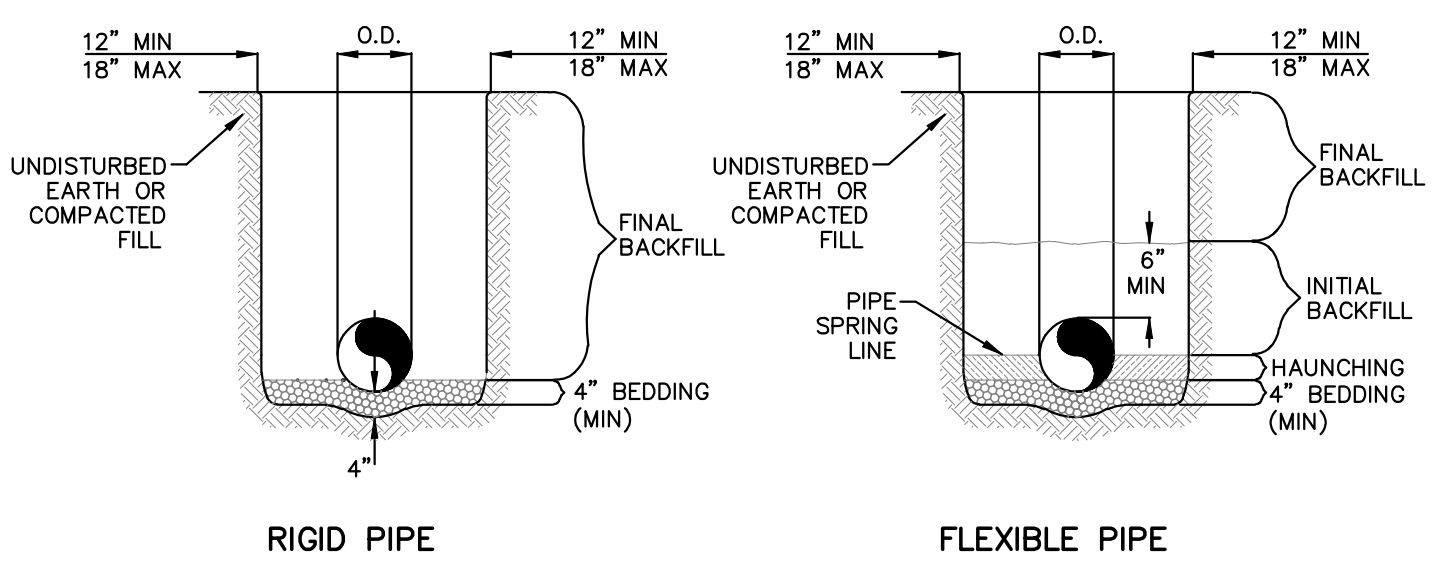
- NOTE:  
1. STONE DITCH PROTECTION SHALL BE USED ON ALL DITCHES EXCEEDING 8X GRADE AND ALL DITCHES DOWN STREAM OF THESE GRADES TO THE NEAREST CULVERT, DITCH TURNOUT OR LEVEL SPREADER.  
2. 6" GRAVEL BEDDING MAY BE ELIMINATED IF MIRAFIX 180N GEOTEXTILE OR EQUAL IS UTILIZED, STONE WEIGHT IS LESS THAN 230 LBS., AND DROP HEIGHT IS LESS THAN 3 FEET.  
3. GEOTEXTILE MAY BE ELIMINATED AS DETERMINED BY ENGINEER IF BASE OF DITCH IS CONSTRUCTED FROM BLAST ROCK.  
4. ALL DITCHES EXPERIENCING GROUNDWATER FLOW SHALL HAVE STONE PROTECTION.  
5. EXTEND STONE DITCH PROTECTION ON FORESLOPE AND BACKSLOPES ABOVE GROUNDWATER SEEPAGE LIMIT.

**TYPICAL STONE DITCH PROTECTION DETAIL**  
NOT TO SCALE



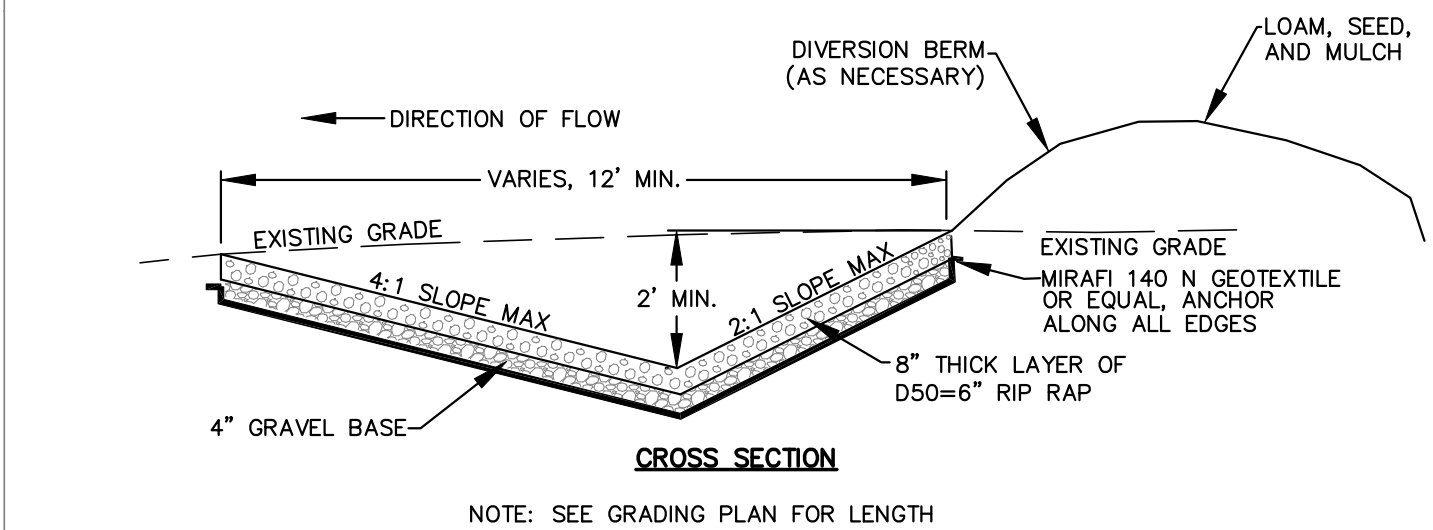
- NOTE:  
1. CONTRACTOR SHALL REMOVE EXISTING VEGETATION WITHIN ROAD FOOTPRINT (INCLUDING DRAINAGE DITCHES)  
2. CONTRACTOR SHALL NOT IMPACT PROTECTED NATURAL RESOURCES UNLESS OTHERWISE PERMITTED.  
3. EXISTING DRAINAGE CULVERTS SHALL BE REPLACED IN KIND AS NECESSARY ONLY FOR DRAINAGE CULVERTS NOT CONVEYING A PROTECTED NATURAL RESOURCE UNLESS OTHERWISE PERMITTED. ADDITIONAL DRAINAGE CULVERTS MAY BE INSTALLED AS NECESSARY.  
4. BARK MULCH BERMS OR SILT FENCE OR INLET PROTECTION SHALL BE USED DOWNSTREAM OF ANY MAINTENANCE WORK ALONG ACCESS ROADS AS NEEDED; SEE TYPICAL DETAIL.
- \* ADDITIONAL CLEARING FOR COMPONENT TRANSPORT MAY BE NECESSARY IN ISOLATED LOCATIONS. THIS CLEARING WILL NOT IMPACT PROTECTED RESOURCES UNLESS OTHERWISE DEPICTED.

**EXISTING ROAD RECONSTRUCTION**  
NOT TO SCALE



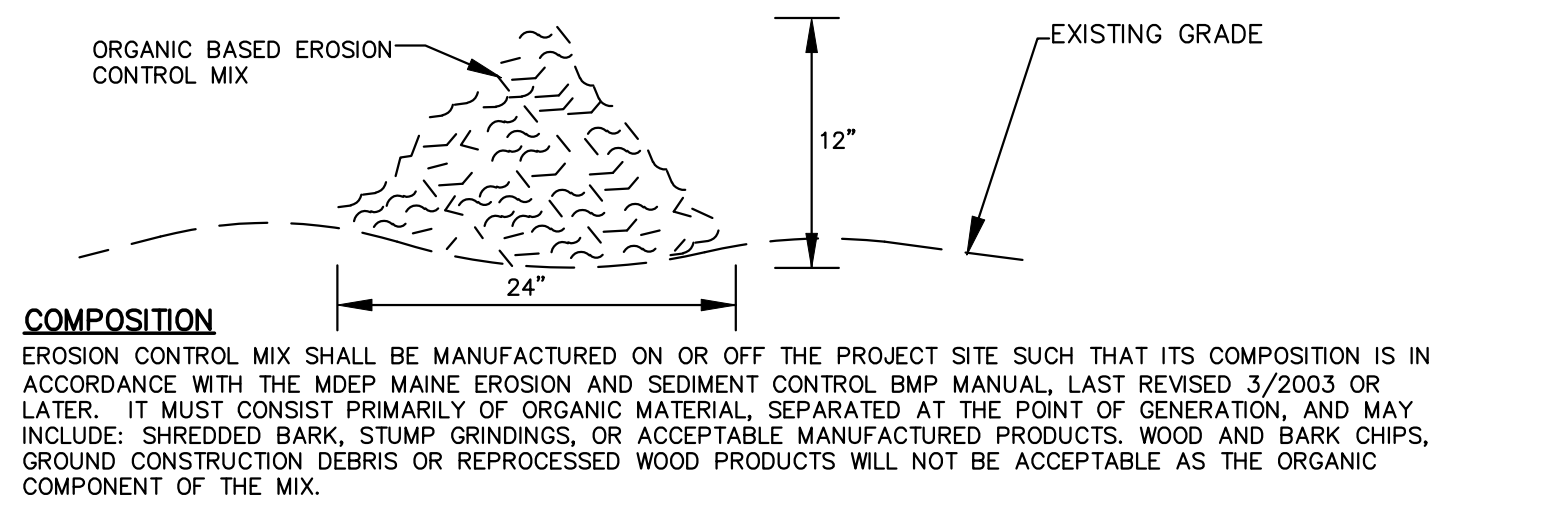
- GENERAL NOTES**  
\*AASHTO SOIL CLASSIFICATIONS USED
- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
  - HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
  - INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
  - FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. FINAL COVER OVER PIPE SHALL BE MIN. 24"
  - ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321 - LATEST EDITION.
  - ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
  - FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
  - ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHIELDED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES (SEE SPECIFICATIONS).
  - ACTUAL MATERIALS USED AND DEPTH OF COVER OVER PIPE SHALL BE FIELD DETERMINED BASED ON ACTUAL SITE CONDITIONS AND PROJECT REQUIREMENTS.

**STORM DRAIN TRENCH AND BEDDING**  
NOT TO SCALE



- LEVEL SPREADER NOTES**
- ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION.
  - ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN A CUT SECTION, I.E. THERE SHALL BE NO EARTH FILL ALONG DOWNSTREAM EDGE.
  - ALL LEVEL SPREADERS SHALL BE ALIGNED PARALLEL TO THE EXISTING CONTOURS.
  - THE ENTRANCE DITCH TO THE LEVEL SPREADER SHALL HAVE A MAXIMUM GRADE OF 1.0% FOR AT LEAST 50 FEET IMMEDIATELY PRIOR TO ENTERING THE SPREADER.
  - THE LEVEL SPREADER SHALL HAVE A LONGITUDINAL GRADE OF 0.0%
  - LEVEL SPREADERS SHOWN ON THE PLANS ARE SYMBOLIC. LOCATION AND ORIENTATION OF LEVEL SPREADERS SHALL BE FIELD DETERMINED BASED ON ACTUAL SITE CONDITIONS.

**TYPICAL LEVEL SPREADER**  
NOT TO SCALE



- COMPOSITION**  
EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL, LAST REVISED 3/2003 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDED BARK, STUMP GRINDINGS, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.
- INSTALLATION:**
- THE BARRIER MUST BE PLACED ACROSS THE SLOPE, ALONG THE CONTOUR.
  - EXISTING GROUND SHALL BE PREPARED SUCH THAT THE BARRIER MAY LIE NEARLY FLAT ALONG THE GROUND TO AVOID THE CREATION OF VOIDS AND BRIDGES IN ORDER TO MINIMIZE THE POTENTIAL OF WASH OUTS UNDER THE BARRIER.
  - THE BARRIER SHALL BE A MINIMUM OF 1 FOOT HIGH (AS MEASURED ON THE UPHILL SIDE) AND 2 FEET WIDE FOR SLOPES LESS THAN 5% IN GRADE AND SHALL BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF.
  - EROSION CONTROL MIX MAY BE INSTALLED WHERE SILT FENCE IS ILLUSTRATED ON THE DESIGN PLANS EXCEPT IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS: WETLAND AREAS, AT POINTS OF CONCENTRATED FLOW, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS AND AT THE BOTTOM OF STEEP SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM.
  - EROSION CONTROL MIX BERMS SHOWN ON THE PLANS ARE SYMBOLIC. LOCATION AND ORIENTATION SHALL BE FIELD DETERMINED BASED ON ACTUAL SITE CONDITIONS.

**EROSION CONTROL MIX BERM**  
NOT TO SCALE

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
129 MIDDLE STREET  
PORTLAND, ME  
EASTBROOK, OSBORN, T16MD, MAINE

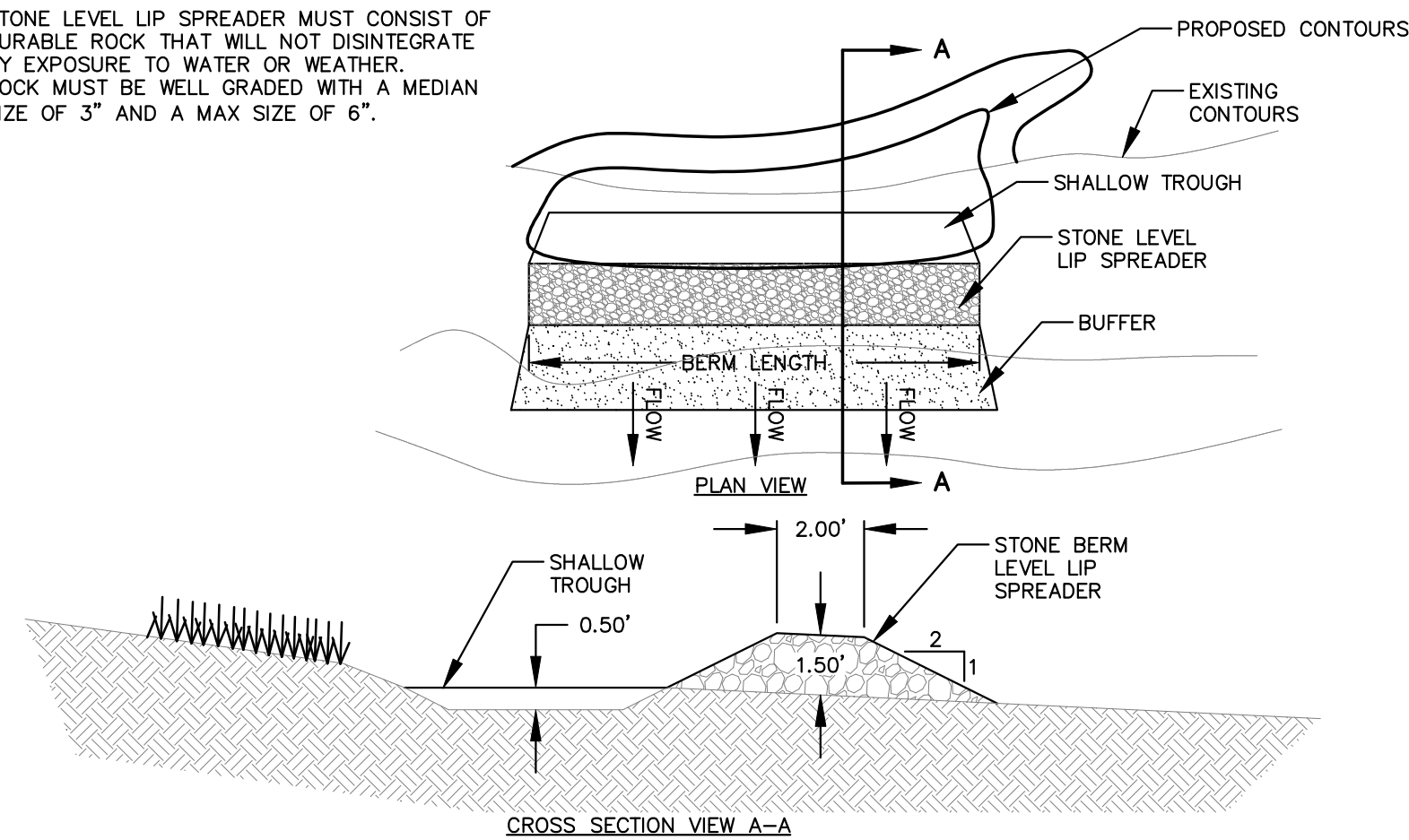
Drawn By: JAC/NT  
Checked By: JAO  
Date: 10/29/2018  
Scale: NTS  
Project No: 84176E  
Sheet No: 5

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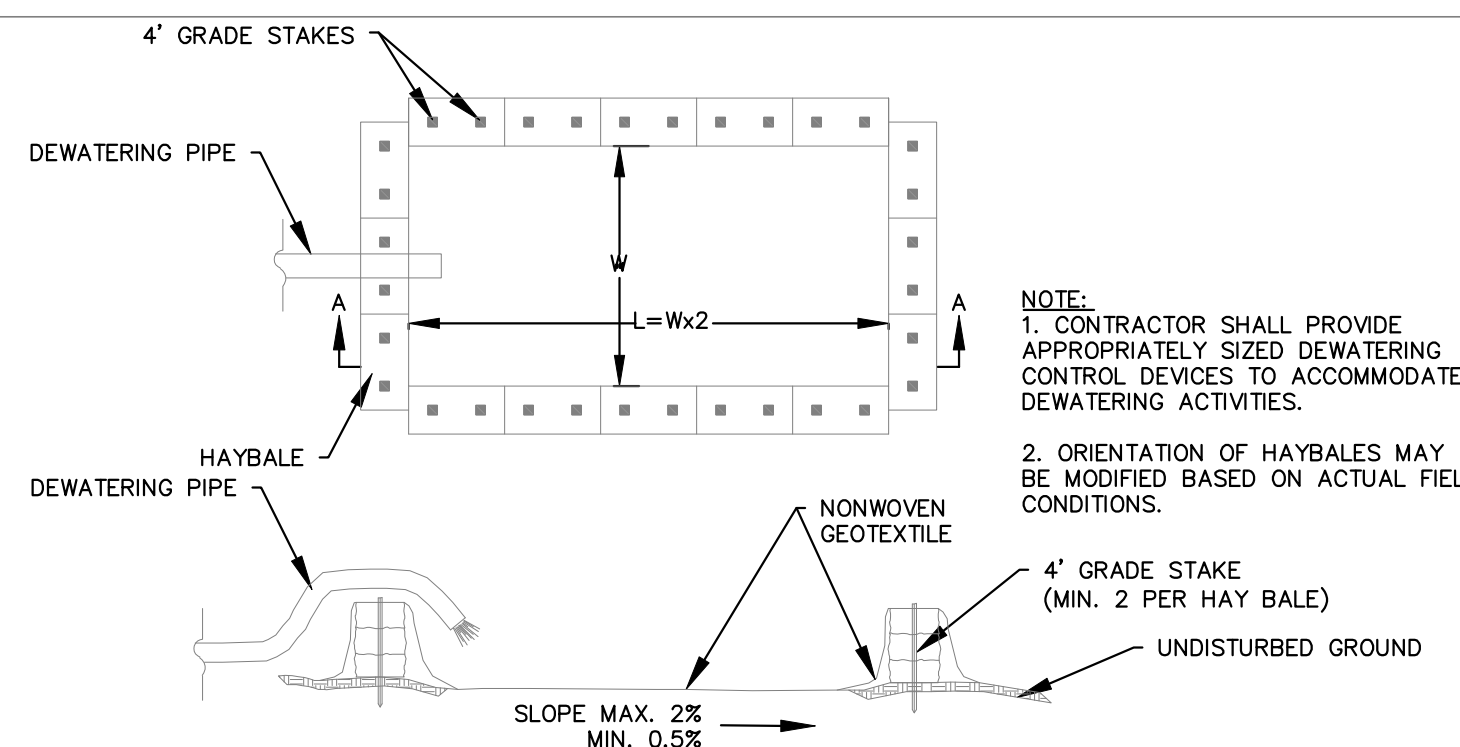
**PERMIT**

**NOT FOR CONSTRUCTION**

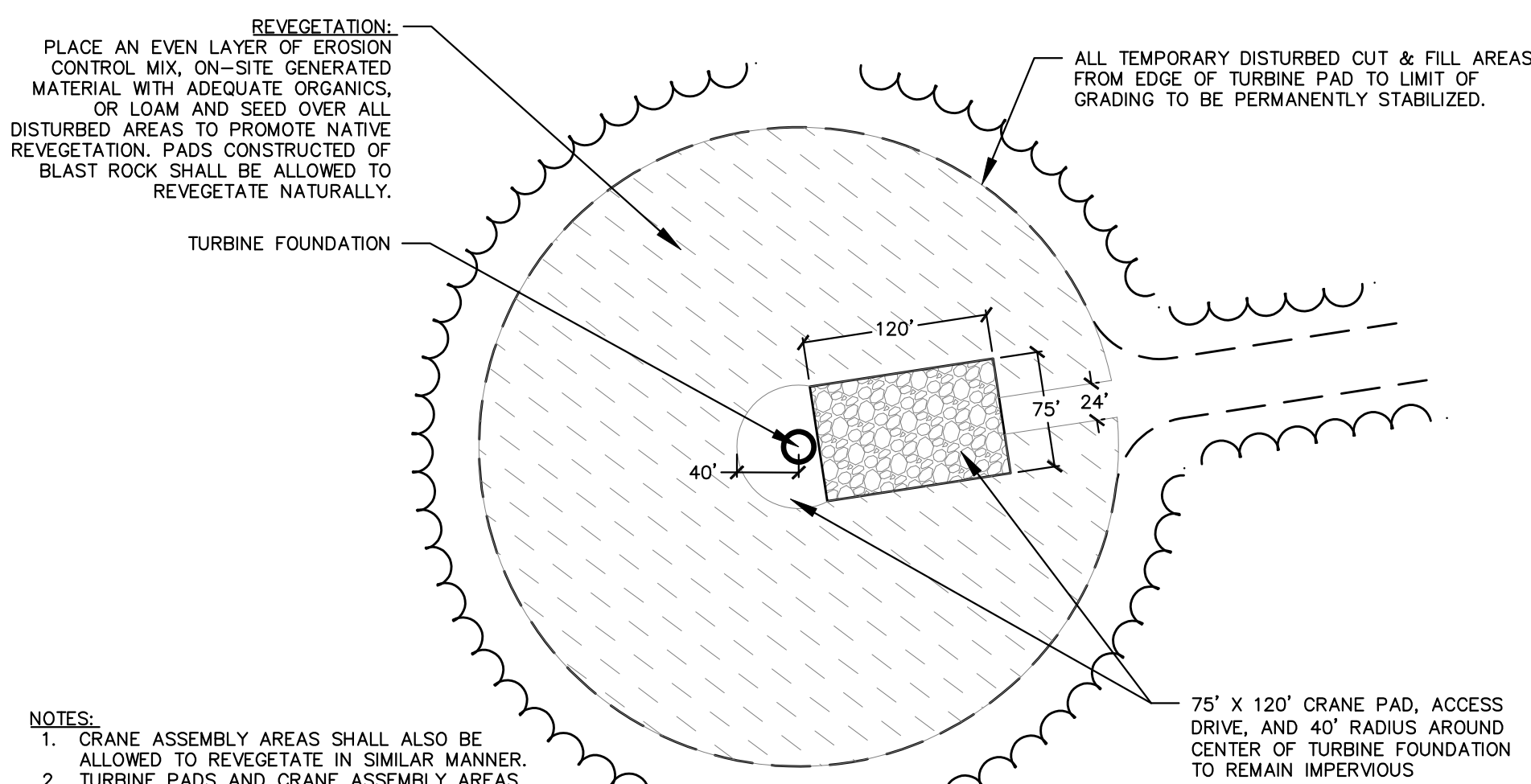
- NOTE:  
 1. STONE LEVEL LIP SPREADER MUST CONSIST OF DURABLE ROCK THAT WILL NOT DISINTEGRATE BY EXPOSURE TO WATER OR WEATHER.  
 2. ROCK MUST BE WELL GRADED WITH A MEDIAN SIZE OF 3" AND A MAX SIZE OF 6".



**STONED BERMED LEVEL LIP SPREADER DETAIL**  
NOT TO SCALE



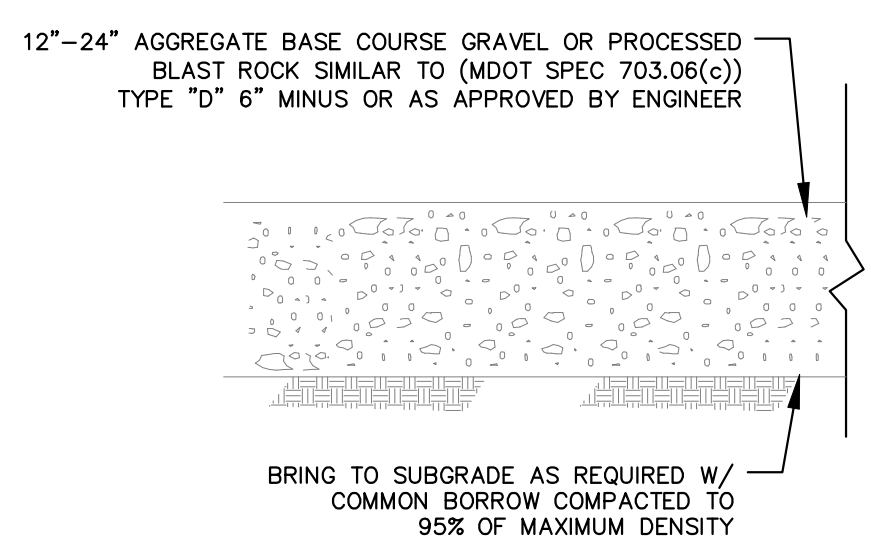
**TEMPORARY DEWATERING SEDIMENT BASIN**  
NOT TO SCALE



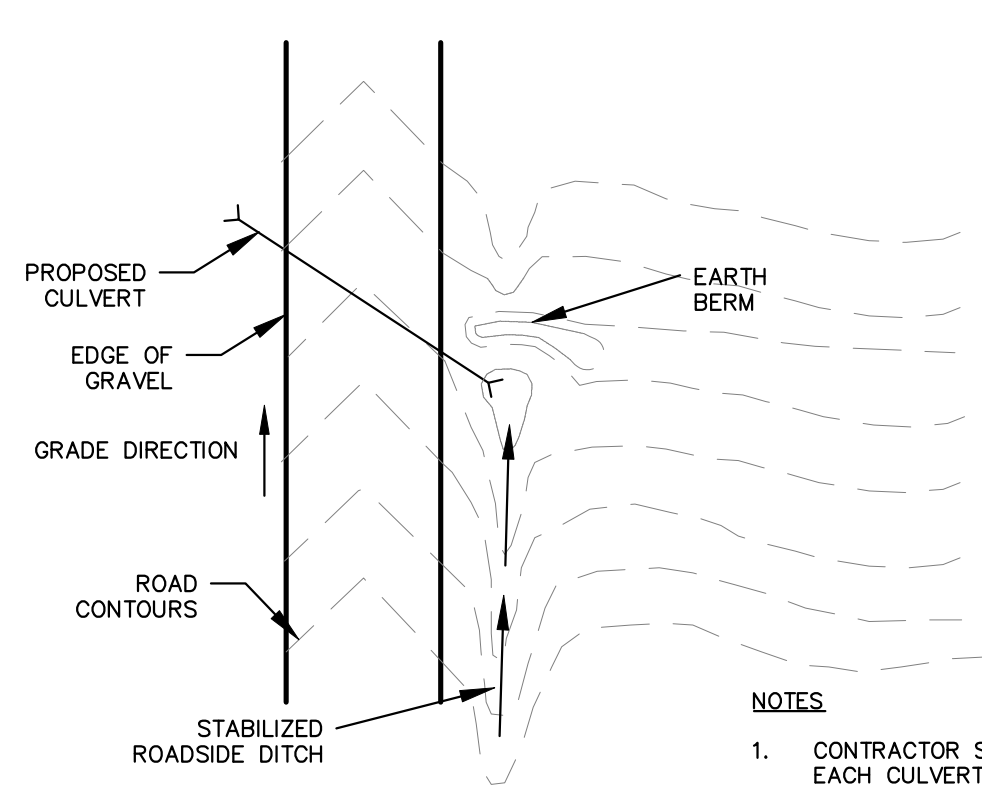
- NOTE:  
 1. CRANE ASSEMBLY AREAS SHALL ALSO BE ALLOWED TO REVEGETATE IN SIMILAR MANNER.  
 2. TURBINE PADS AND CRANE ASSEMBLY AREAS CONSTRUCTED ON EXISTING ROADWAYS SHALL NOT BE REVEGETATED WITHIN THE FOOTPRINT OF THE EXISTING ROAD. ALIGNMENT MODIFICATIONS MAY BE NECESSARY FOR VEHICULAR ACCESS.  
 3. THE AREA OF EXISTING ROADS WHICH BISECT PROPOSED TURBINE PADS WILL NOT BE REVEGETATED.

**TYPICAL TURBINE PAD STABILIZATION DETAIL**  
NOT TO SCALE

- NOTE:  
 1. COMPACT GRAVEL BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.  
 2. ALL CRANE PADS SHALL BE CONSTRUCTED WITH NO CROSS SLOPE IN ANY DIRECTION.  
 3. CRANE PADS SHALL BE 75' X 120' (MINIMUM). EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY GENERAL CONTRACTOR.  
 4. ACTUAL AGGREGATE MATERIALS AND DEPTH SHALL BE DETERMINED IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AND REQUIREMENTS, AS APPROVED BY GEOTECHNICAL REPRESENTATIVE.

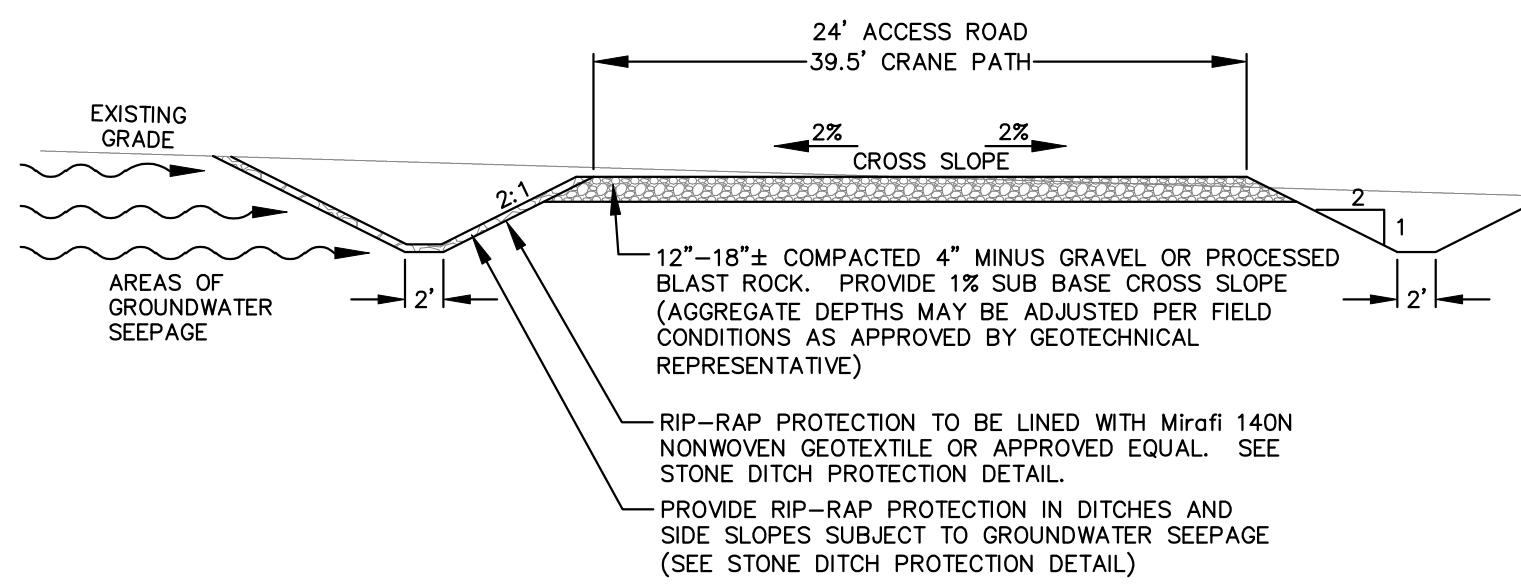


**TYPICAL GRAVEL CRANE PAD SECTION**  
NOT TO SCALE

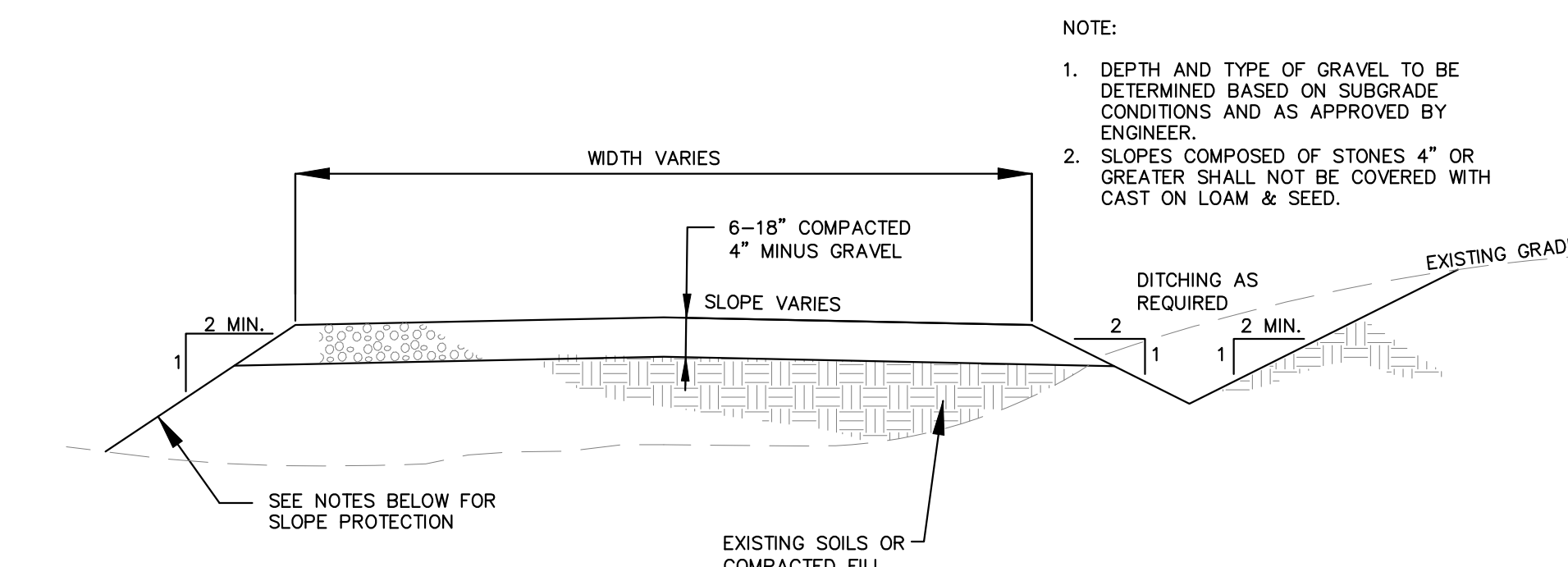


**BERMED CULVERT INLET DETAIL**  
NOT TO SCALE

- NOTE:  
 1. CONTRACTOR SHALL CONSTRUCT BERM AT EACH CULVERT INLET TO DIRECT DITCH FLOW INTO CULVERT.  
 2. CONTRACTOR SHALL LOWER INVERT ELEVATION AS APPROPRIATE TO MAINTAIN COVER BETWEEN CROSS CULVERTS, ROADWAY, AND DITCH ON OPPOSITE SIDE OF ROAD.

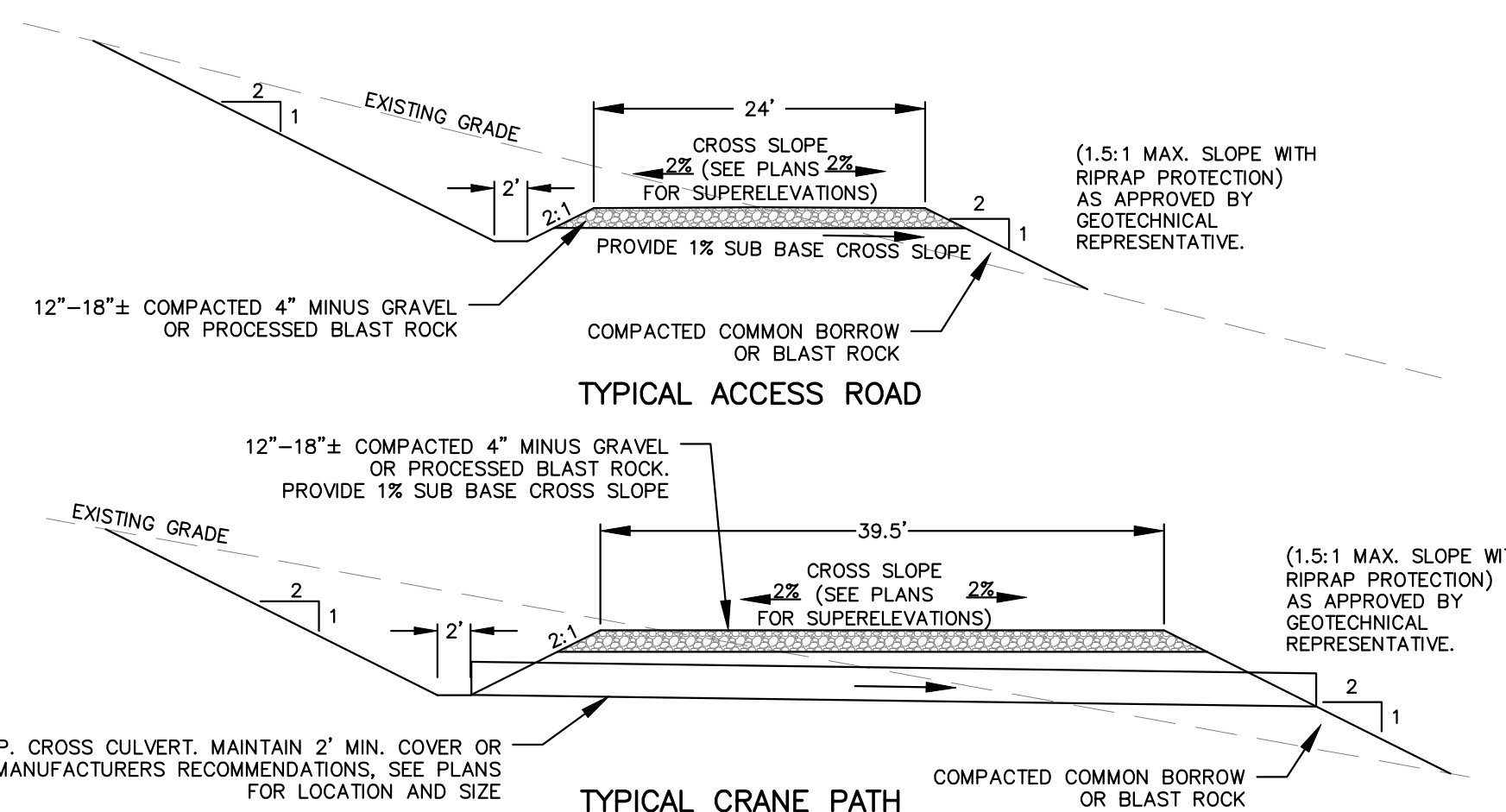


**TYPICAL ROAD DETAIL IN CUT SECTION**  
NOT TO SCALE



**TYPICAL TURBINE PAD**

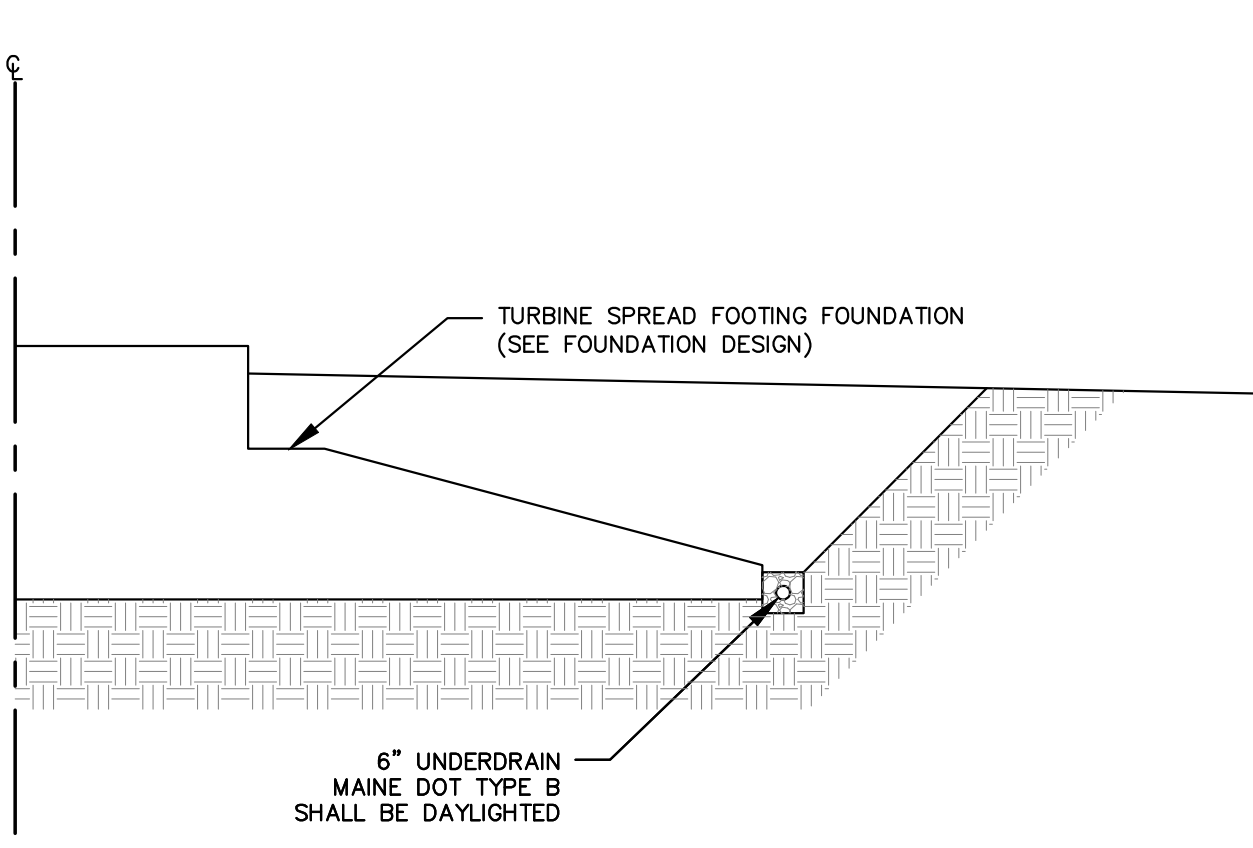
- NOTE:  
 1. DEPTH AND TYPE OF GRAVEL TO BE DETERMINED BASED ON SUBGRADE CONDITIONS AND AS APPROVED BY ENGINEER.  
 2. SLOPES COMPOSED OF STONES 4" OR GREATER SHALL NOT BE COVERED WITH CAST ON LOAM & SEED.



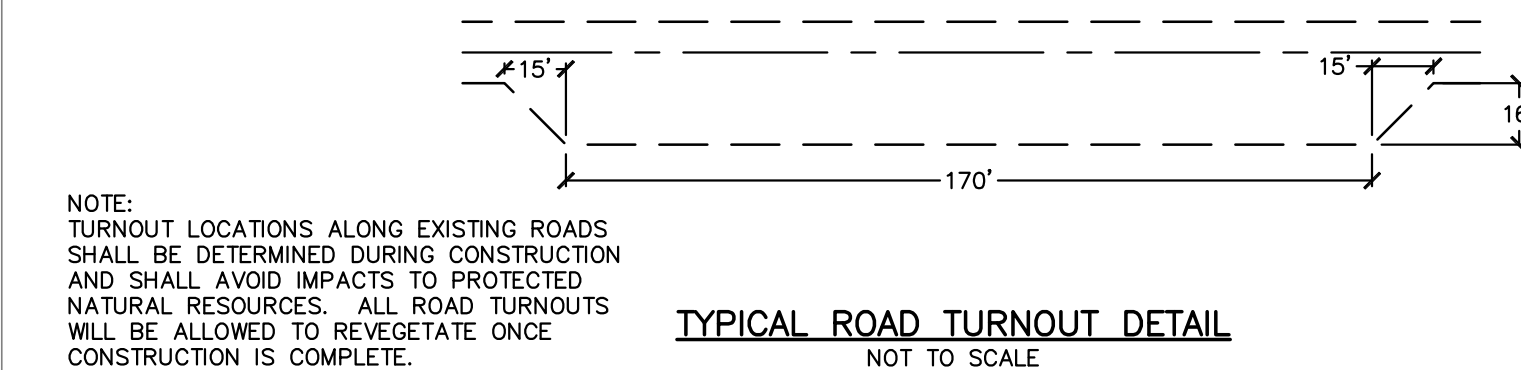
**TYPICAL CRANE PATH**

- NOTE:  
 1. DITCHES SHALL BE CONSTRUCTED TO AVOID GROUND WATER TABLE WHEN POSSIBLE. DITCH DEPTH SHALL BE 24" MEASURED FROM ROADWAY, EXCEPT AT CROSS CULVERTS OR AS APPROVED BY THE ENGINEER. DITCHES SHALL BE STONE LINED WHEN THE LONGITUDINAL SLOPES OF THE DITCH EXCEEDS 8%.  
 2. ACTUAL AGGREGATE MATERIALS AND DEPTH SHALL BE DETERMINED IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AND PROJECT REQUIREMENTS TO ADEQUATELY SUPPORT CONSTRUCTION EQUIPMENT.
- FILL AREAS:  
 1. EXISTING GROUND SHALL BE GRUBBED WITHIN FOOTPRINT OF ROAD IN FILL SECTIONS. HOWEVER, WHEN EMBANKMENT FILL DEPTH EXCEEDS 5', MEASURED VERTICALLY, ALL VEGETATION SHALL BE CUT BUT GRUBBING IS NOT REQUIRED.  
 2. STABILIZE FILL SLOPES WITH BLAST ROCK, EROSION CONTROL MIX, OR LOAM AND SEED. ALL SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION CONTROL MIX, EROSION CONTROL MESH, OR BLAST ROCK/RIPRAP. SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH RIPRAP OR SUITABLE BLAST ROCK.  
 3. BENCH EXISTING GROUND AS NECESSARY TO STABILIZE EXTENSION.
- CUT AREAS:  
 1. 1:4 CUT FACES ARE PERMITTED IN AREAS OF ROCK EXCAVATION ONLY AS APPROVED BY ENGINEER.  
 2. ALL NON ROCK-FACE SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION CONTROL MIX, EROSION CONTROL MESH, OR BLAST ROCK. SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH BLAST ROCK OR RIP RAP.

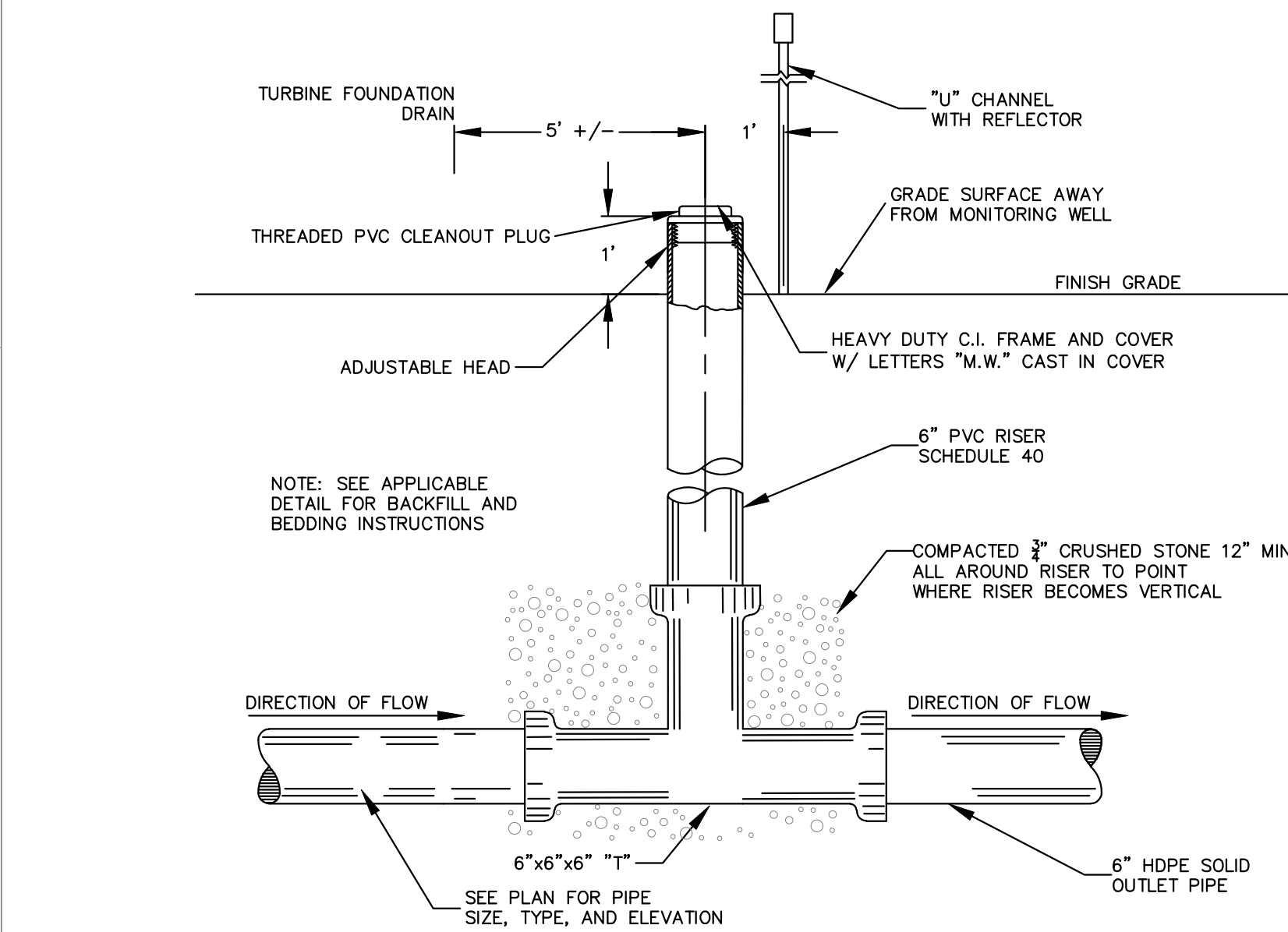
**TYPICAL TURBINE PAD AND ROAD DETAILS**  
NOT TO SCALE



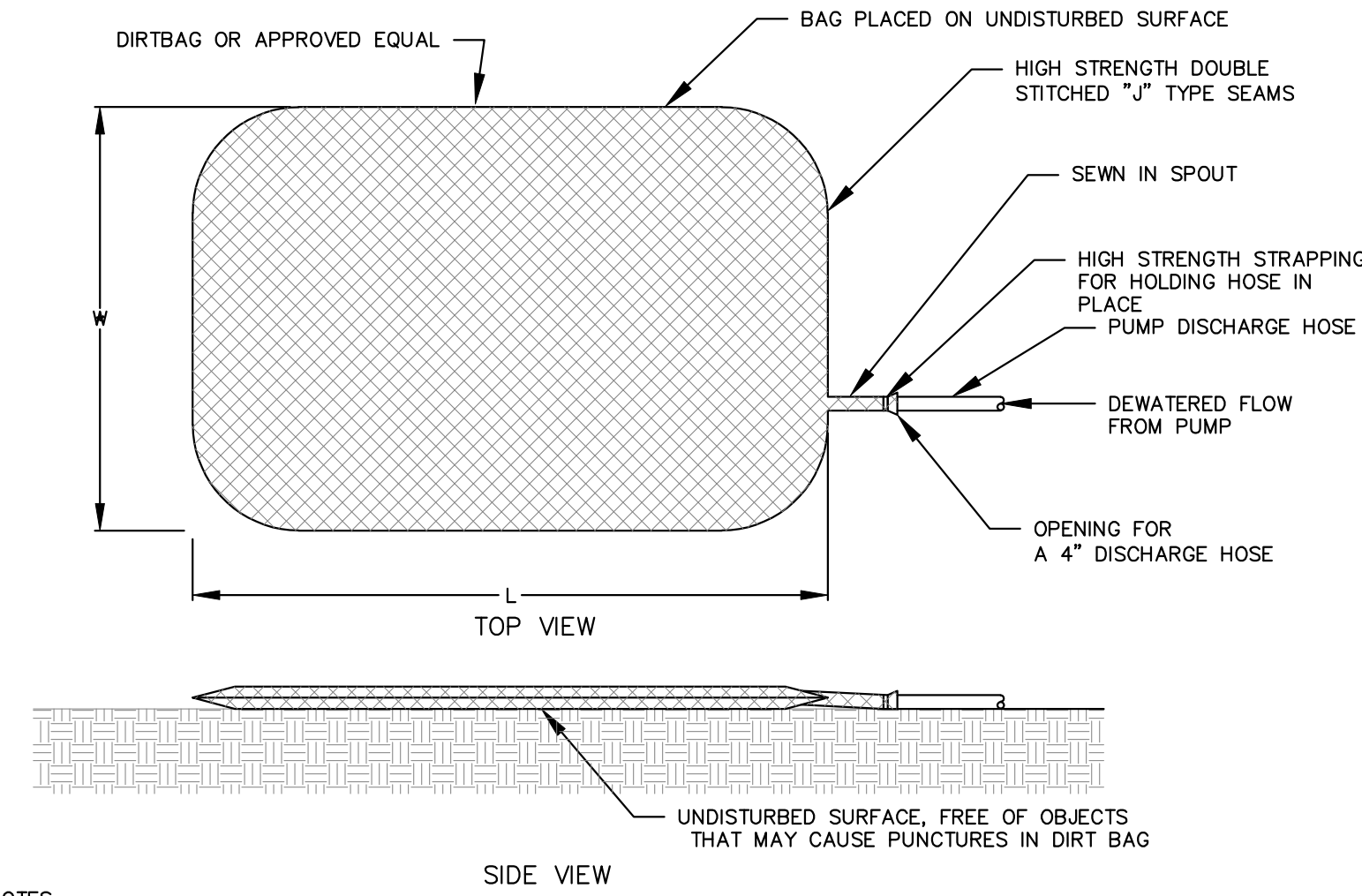
**UNDERDRAIN AT SPREAD FOOTING: TYPICAL SECTION**  
NOT TO SCALE



**TYPICAL ROAD TURNOUT DETAIL**  
NOT TO SCALE

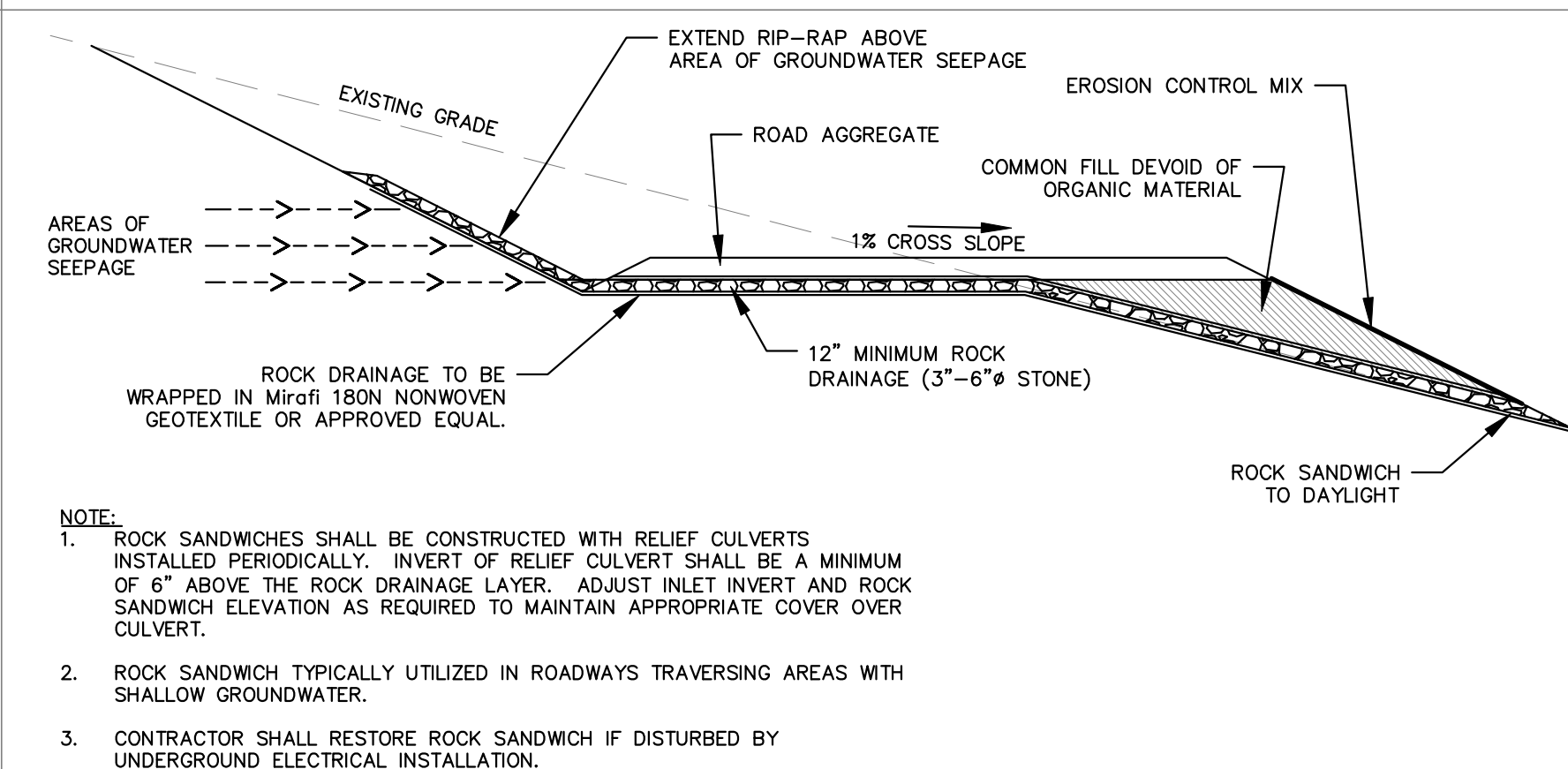


**FOUNDATION DRAIN MONITORING WELL DETAIL**  
NOT TO SCALE



- NOTE:  
 1. CONTRACTOR SHALL PROVIDE APPROPRIATE SIZED DEWATERING CONTROL DEVICES TO ACCOMMODATE DEWATERING ACTIVITIES BASED ON MANUFACTURERS RECOMMENDATIONS AND ANTICIPATED FLOW RATES.  
 2. SEDIMENT CONTROL DEVICES SHALL BE REPLACED WHEN FULL. SEDIMENT CAN BE DISPOSED OF IN NON STRUCTURAL FILL AREAS OUTSIDE OF RESOURCE PROTECTION ZONES.

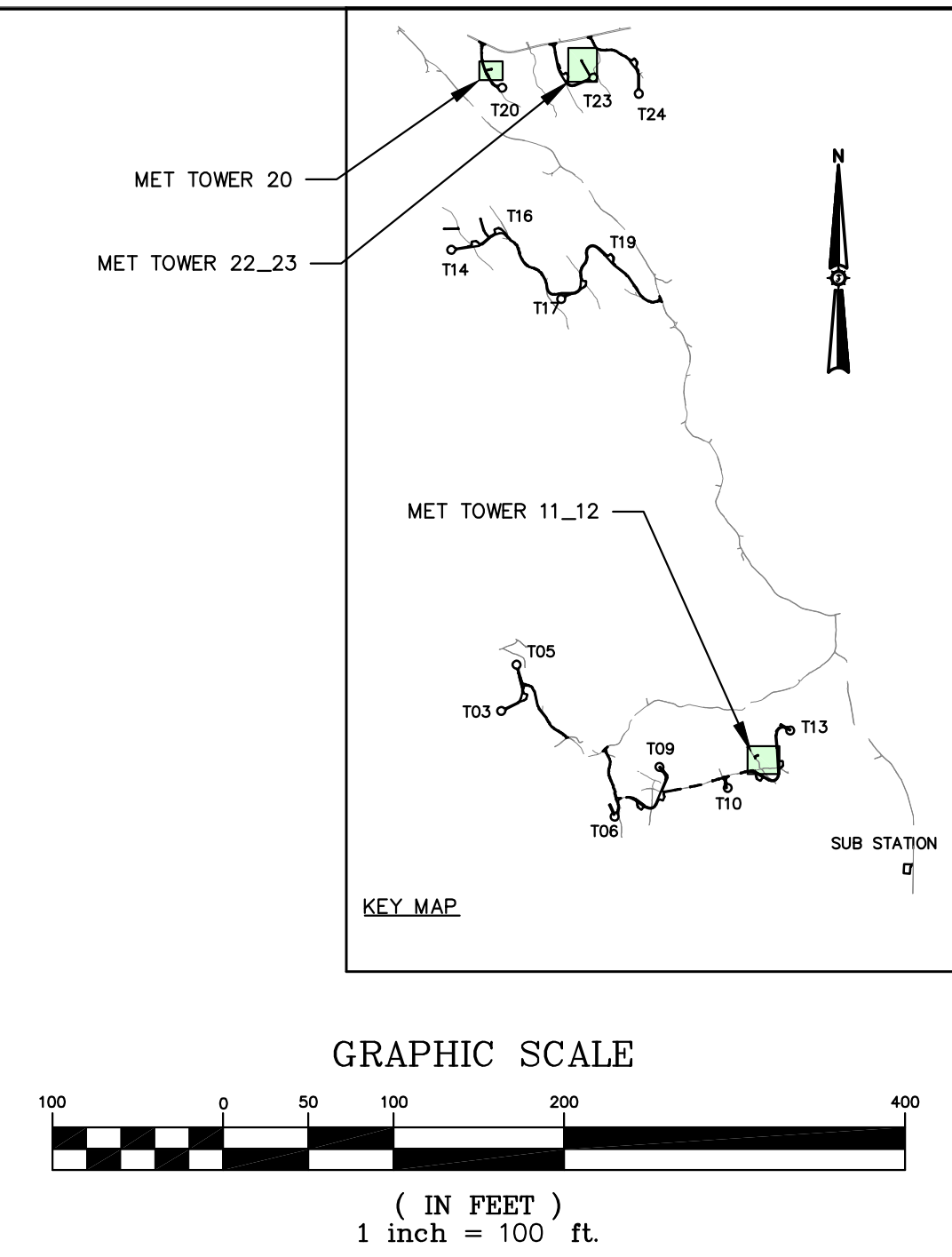
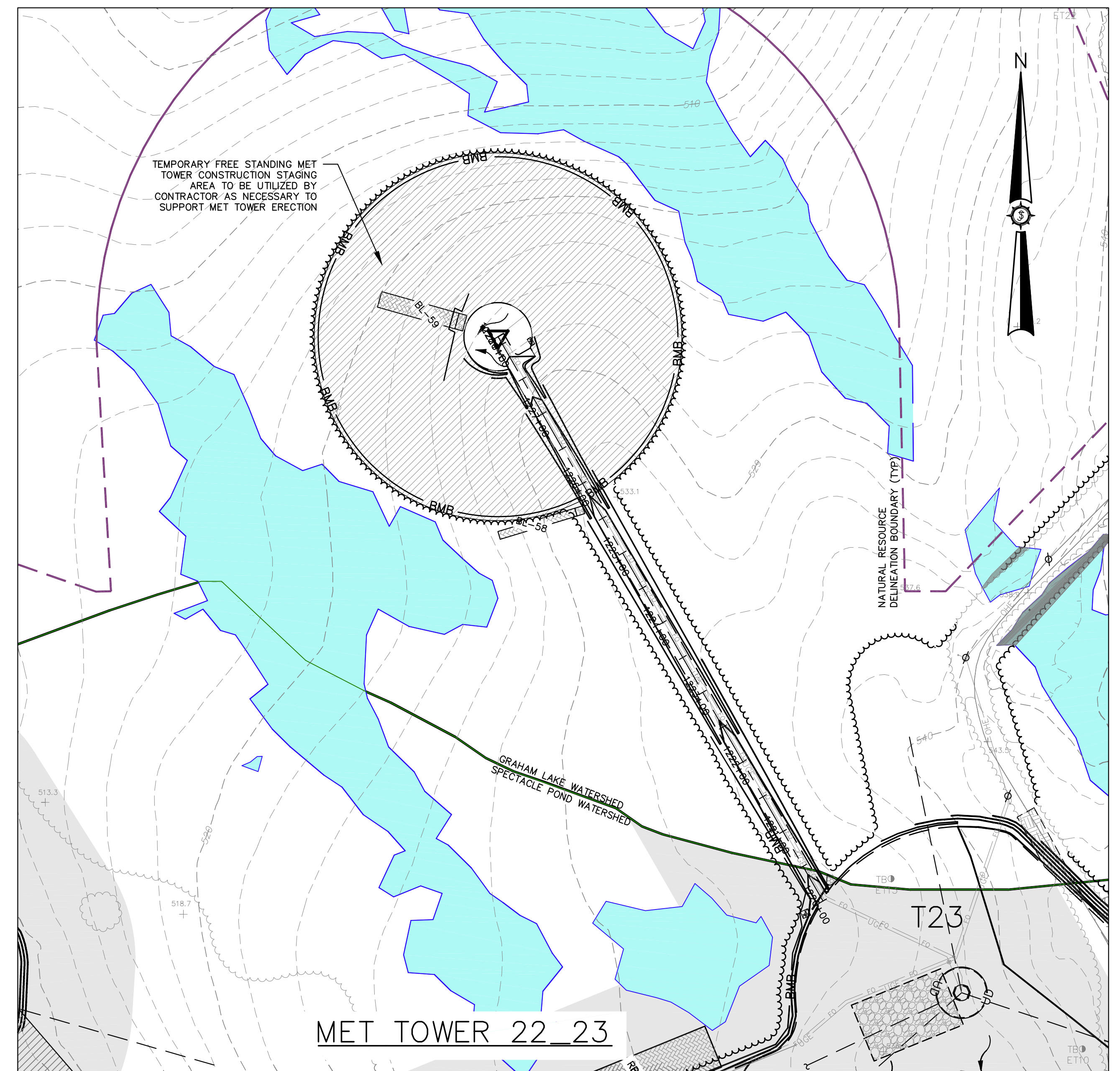
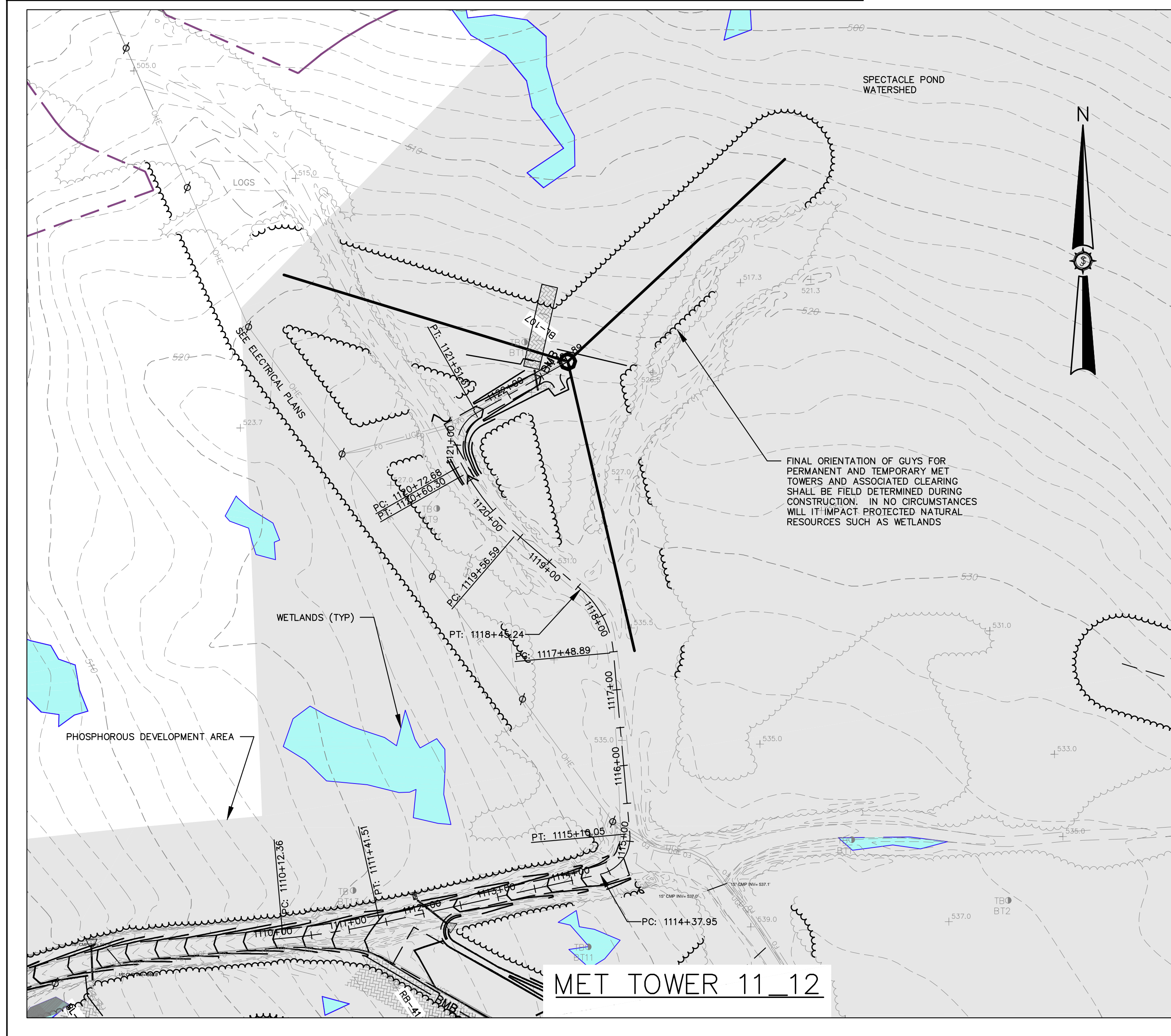
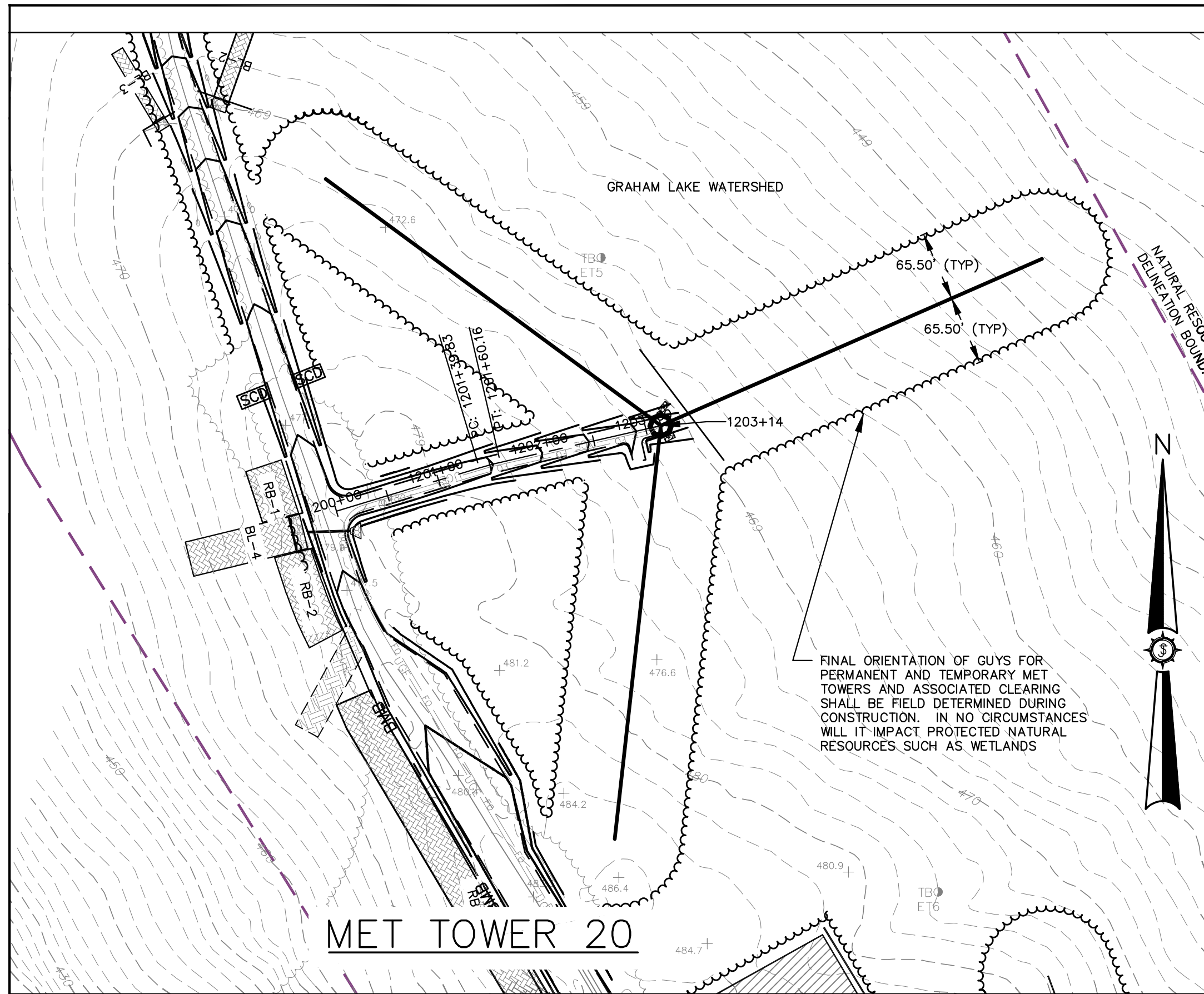
**DIRT BAG DETAIL**  
NOT TO SCALE



- NOTE:  
 1. ROCK SANDWICHES SHALL BE CONSTRUCTED WITH RELIEF CULVERTS INSTALLED PERIODICALLY. INVERT OF RELIEF CULVERT SHALL BE A MINIMUM OF 6" ABOVE THE ROCK DRAINAGE LAYER. ADJUST INLET INVERT AND ROCK SANDWICH ELEVATION AS REQUIRED TO MAINTAIN APPROPRIATE COVER OVER CULVERT.  
 2. ROCK SANDWICH TYPICALLY UTILIZED IN ROADWAYS TRaversing AREAS WITH SHALLOW GROUNDWATER.  
 3. CONTRACTOR SHALL RESTORE ROCK SANDWICH IF DISTURBED BY UNDERGROUND ELECTRICAL INSTALLATION.

**TYPICAL ROCK SANDWICH DETAIL**  
NOT TO SCALE

Drawn By JAO/NT	Checked JAO
Design By BCH	Approved BCH
Date 10/29/2018	Scale NTS
Project Location PORTLAND, ME	Project No. 84176E
Project Name WEAVER WIND PROJECT	Project No. 84176E
Project Name WEAVER WIND, LLC	Project No. 84176E
Project Name EASTBROOK, OSBORN, T16MD, MAINE	Project No. 84176E
Project Name 129 MIDDLE STREET	Project No. 84176E
Project Name PORTLAND, ME	Project No. 84176E
Project Name EASTBROOK, OSBORN, T16MD, MAINE	Project No. 84176E
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Project Name 129 MIDDLE STREET	Project No. 84176E
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Project Name 129 MIDDLE STREET	Project No. 84176E
Project Name PORTLAND, ME	Project No. 84176E
Project Name EASTBROOK, OSBORN, T16MD, MAINE	Project No. 84176E
Project Name 129 MIDDLE STREET	Project No. 84176E
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Project Name 129 MIDDLE STREET	Project No. 84176E
Project Name PORTLAND, ME	Project



Project No.	84176E
Phase	PERMIT
Sheet No.	7
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC
Project Location	129 MIDDLE STREET PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Drawn By	JAC/NT
Checked By	JAO
Designed By	BCH
Date	10/29/2018
Scale	
Approved	BCH
Checked	JAO
Drawn	JAC/NT
Checked	JAO
Designed	BCH
Date	10/29/2018
Scale	
Approved	BCH
Checked	JAO

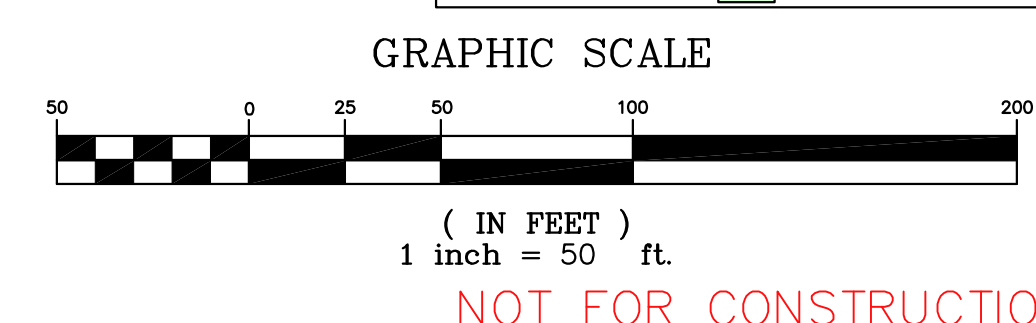
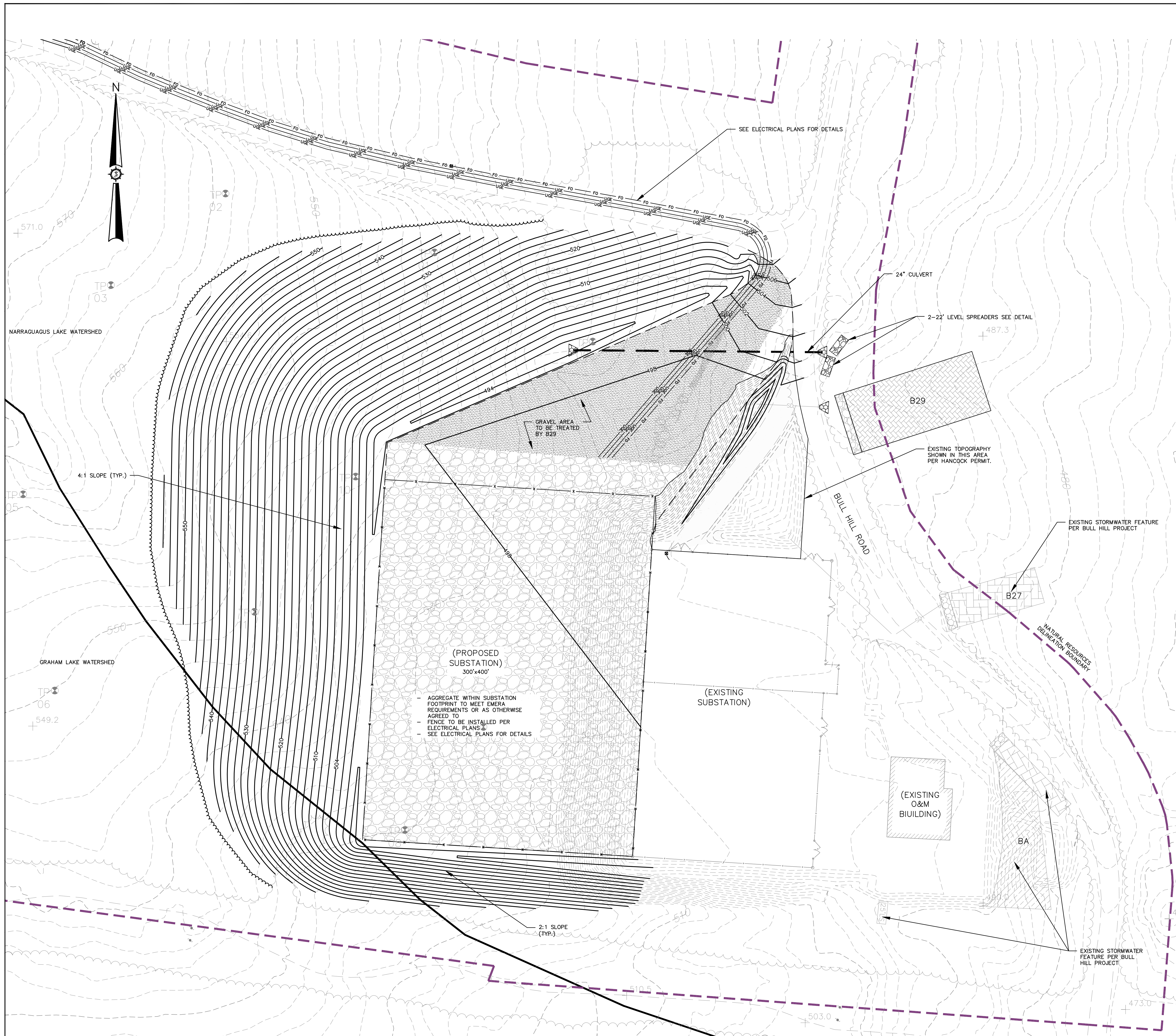
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STATE OF MAINE  
Professional Seal  
Professional Surveyor  
No. 10749  
Exp. 12/31/19

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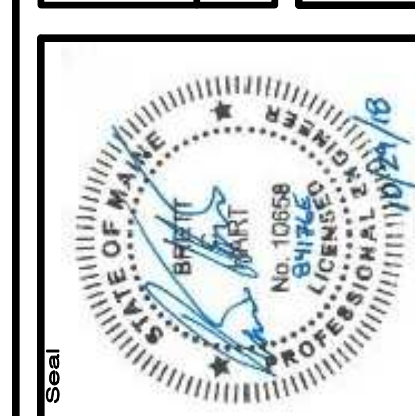






Rev. #	Drawn By	Description	Date

Designed By BCH	Drawn By JAO/MT
Date 10/29/2018	Scale 1"=50'
Project Location PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE	
Approved BCH	Checked JAO

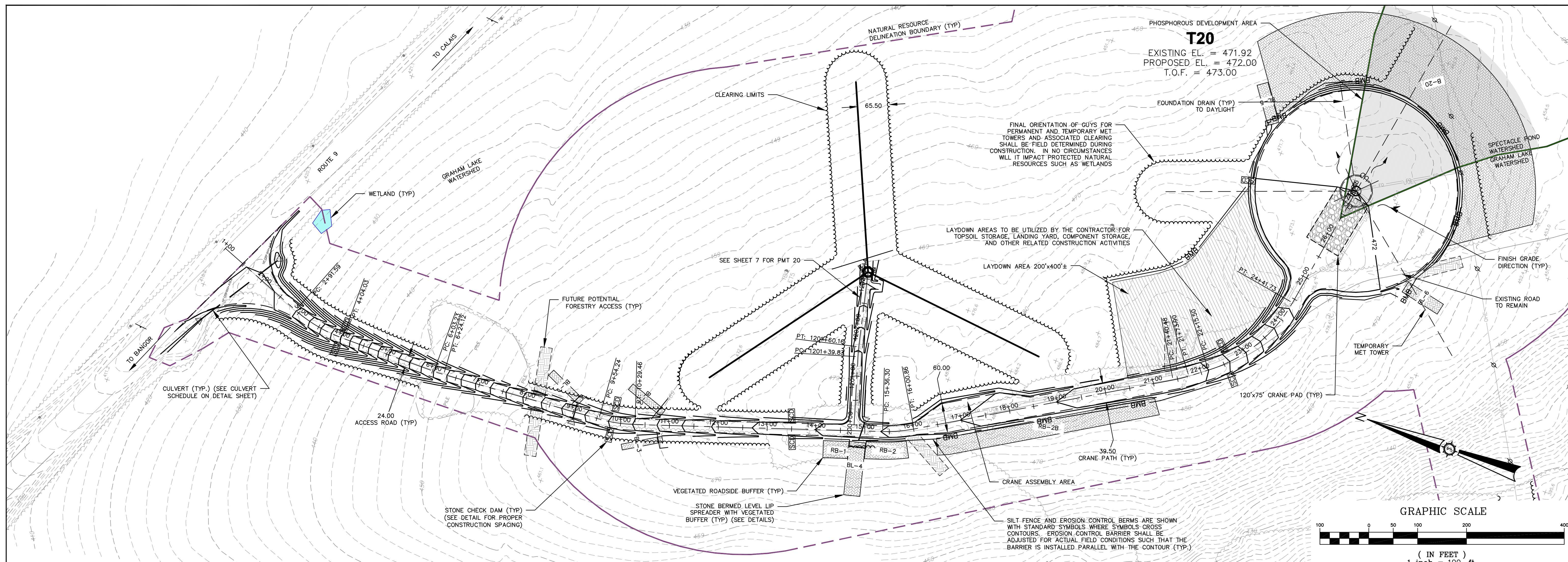


Project No. **84176E**

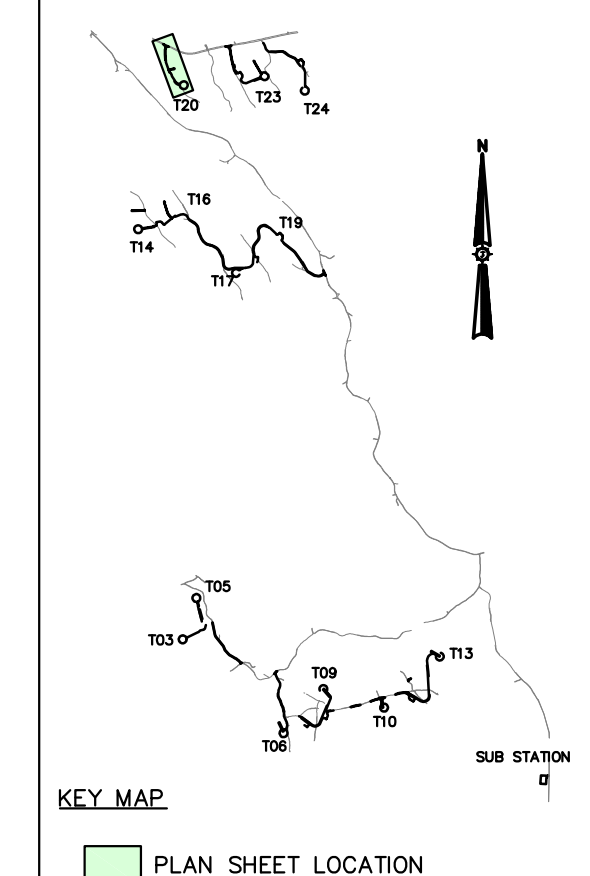
Engineer

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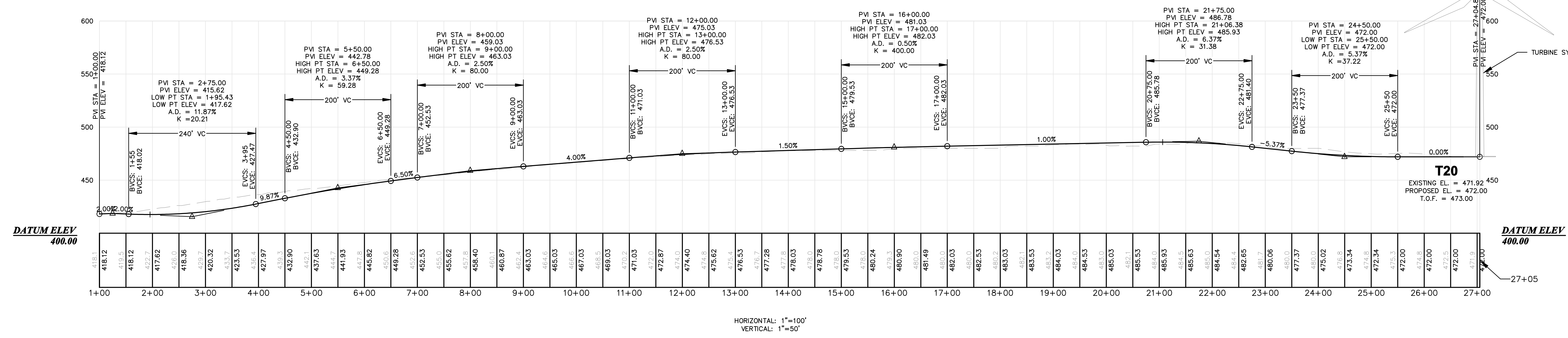
Phase <b>PERMIT</b>
Sheet No. <b>9</b>



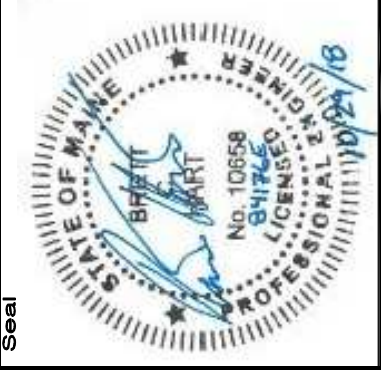
PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 1+00 TO 27+50 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROAD IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD AND/OR A 39.5' CRANE PATH (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.



**ACCESS ROAD & CRANE PATH T20**  
1+00.00 - 27+05.00



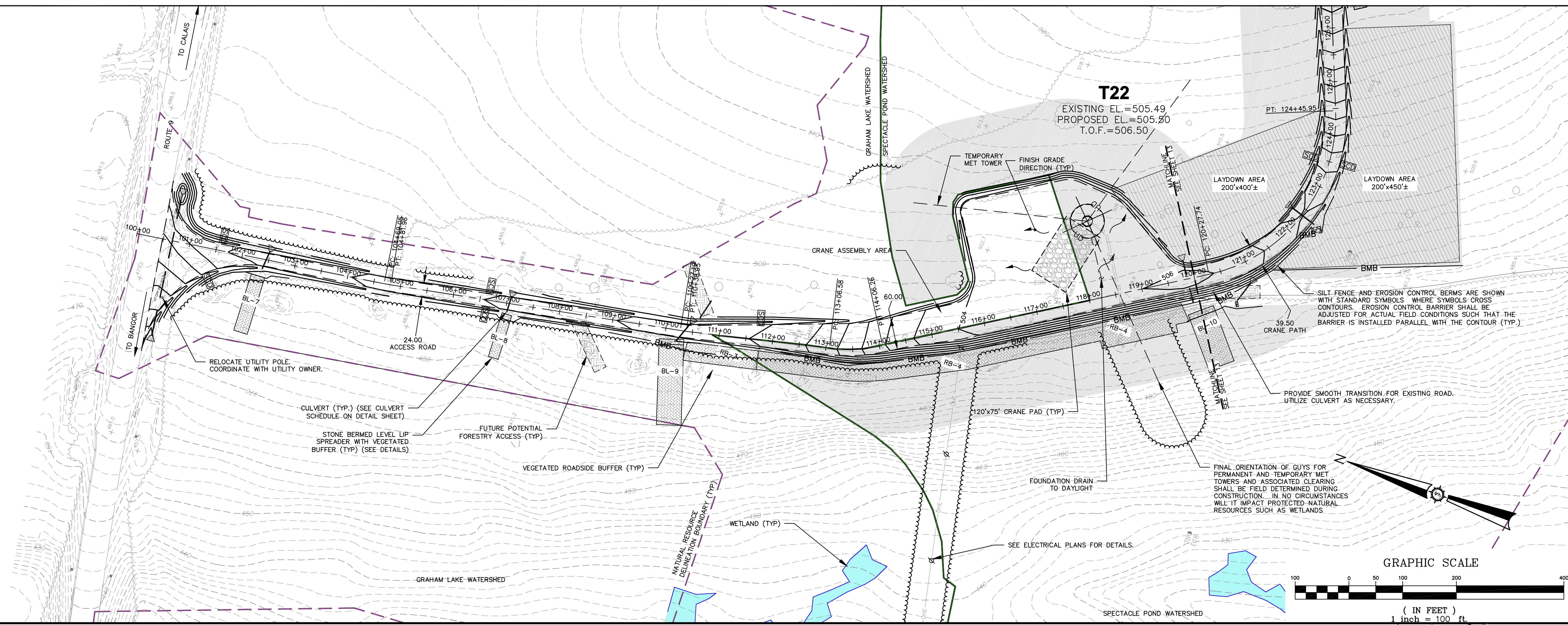
Project No.	84176E
Phase	PERMIT
Sheet No.	11
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC
Project Location	129 MIDDLE STREET PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Drawn Description	BIRCH AND HARDWOOD HILLS ACCESS ROAD T20
Scale	H: 1" = 100' V: 1" = 50'
Checked	JAO
Approved	BOH
Designed By	JAO/NT
Drawn By	BOH
Date	10/29/2018
Scale	H: 1" = 100' V: 1" = 50'
Checked	JAO
Approved	BOH
Project No.	84176E
Project Name	WEAVER WIND PROJECT
Project Location	129 MIDDLE STREET PORTLAND, ME
Drawn Description	BIRCH AND HARDWOOD HILLS ACCESS ROAD T20
Scale	H: 1" = 100' V: 1" = 50'
Checked	JAO
Approved	BOH
Designed By	JAO/NT
Drawn By	BOH
Date	10/29/2018
Scale	H: 1" = 100' V: 1" = 50'
Checked	JAO
Approved	BOH



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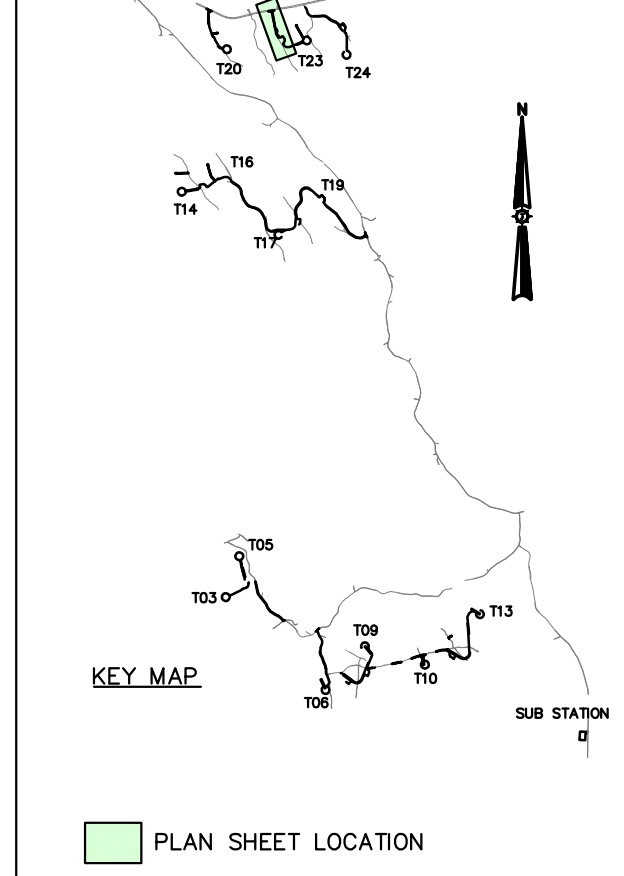
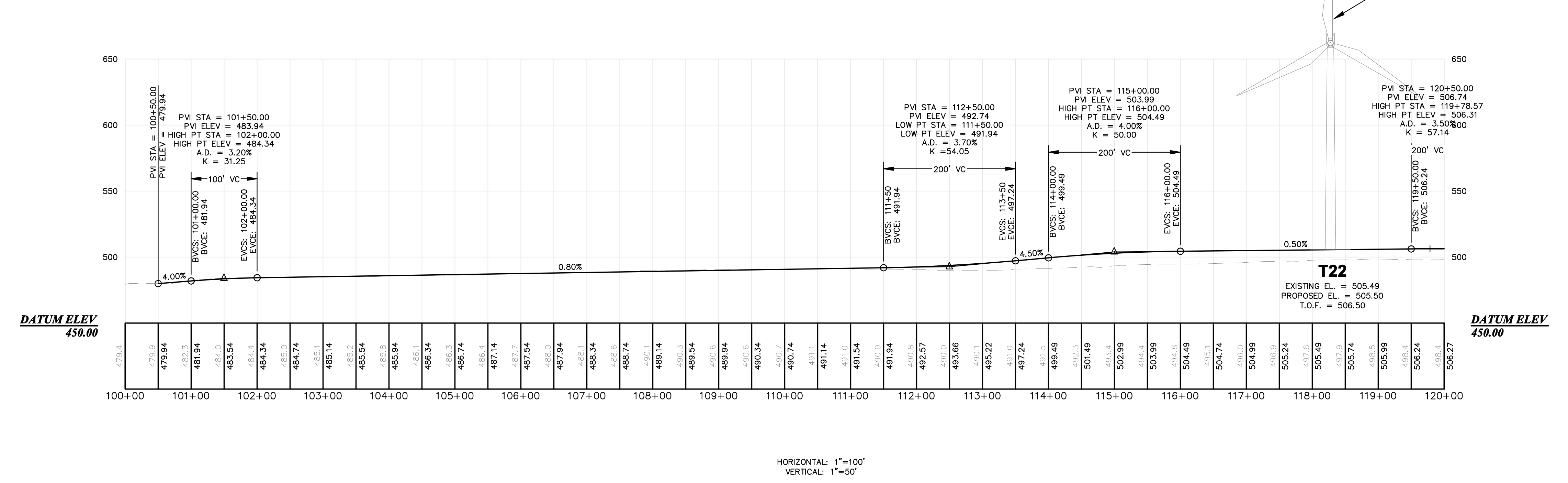


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PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 100+50 TO 113+00 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROAD IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD AND/OR A 30' CRANE PATH (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.

**ACCESS ROAD CRANE PATH T23**  
100+00.00 - 120+00.00



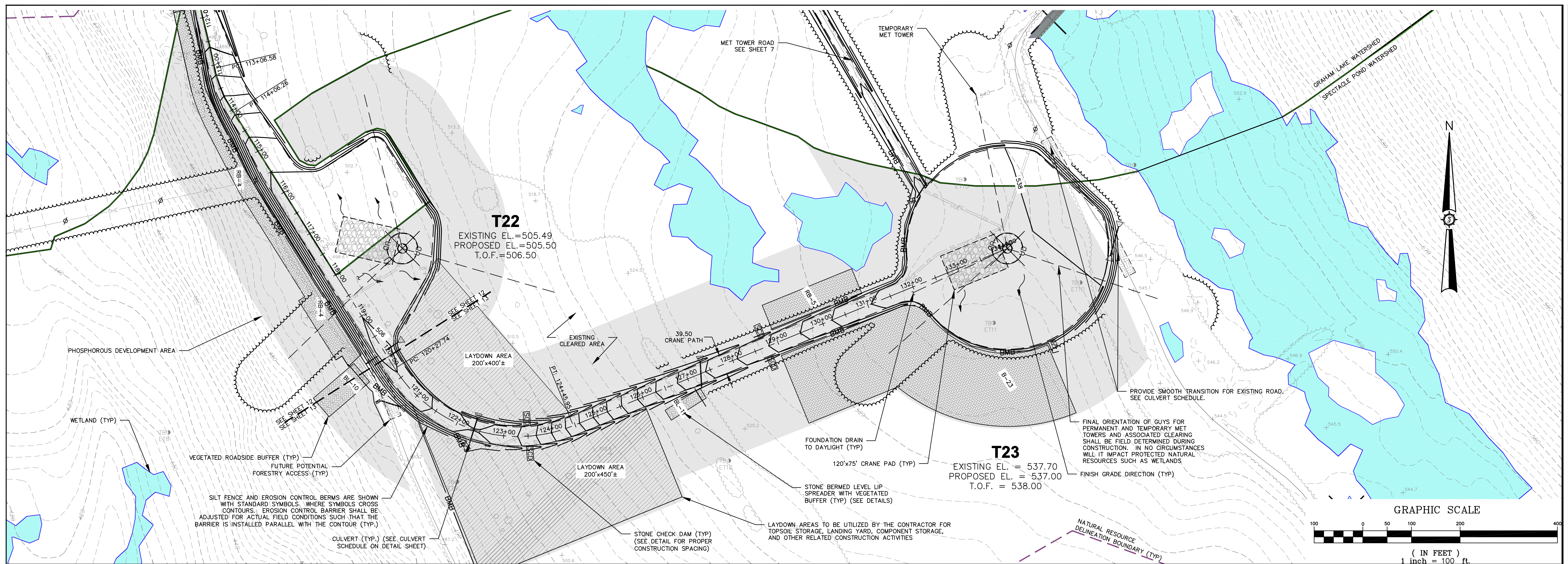
Project No.	84176E
Phase	PERMIT
Sheet No.	12
Project Name	<b>WEAVER WIND PROJECT</b> <b>WEAVER WIND, LLC</b> 129 MIDDLE STREET PORTLAND, ME
Project Location	EASTBROOK, OSBORN, T16MD, MAINE
Drawing Description	<b>BIRCH AND HARDWOOD HILLS</b> <b>ACCESS ROAD AND CRANE PATH</b>
Scale	H: 1" = 100' V: 1" = 50'
Drawn By	JAO/NT
Checked By	JAO
Design By	JAO/NT
Reviewed By	JAO/NT
Date	10/29/2018

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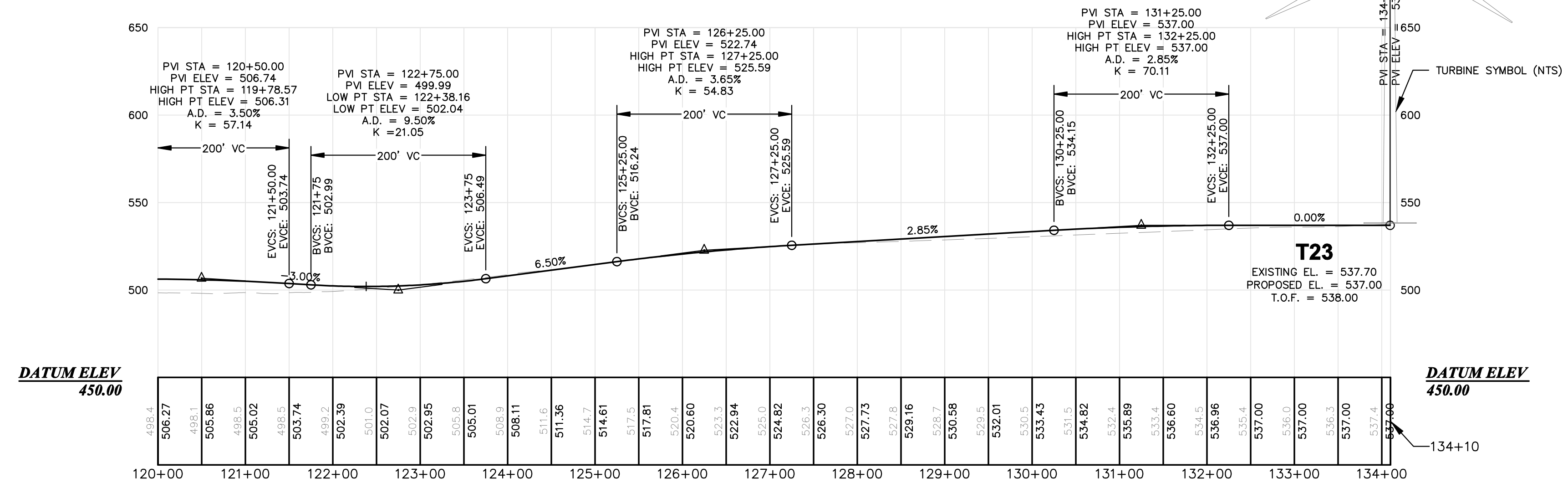
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STATE OF MAINE  
 PROFESSIONAL SURVEYOR  
 10749

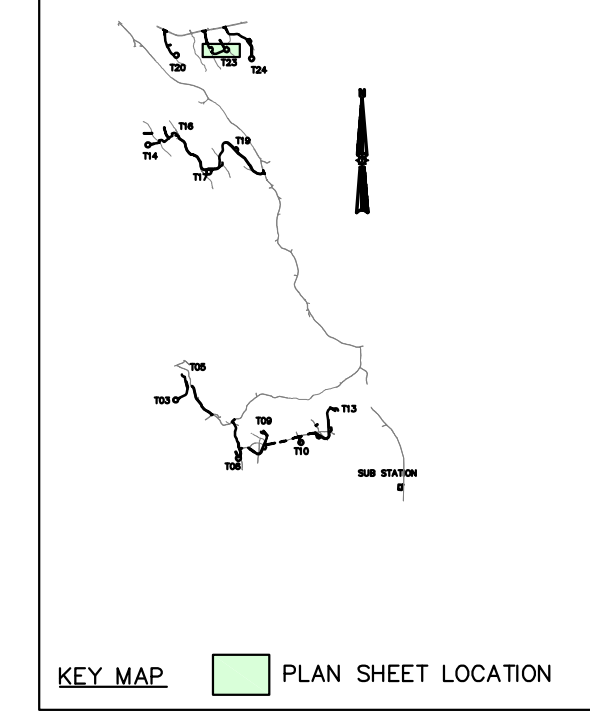
NOT FOR CONSTRUCTION



**CRANE PATH T23**  
120+00.00 - 134+10.00



HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	JAO/NT
Checked By	BCH
Date	10/29/2018
Scale	H: 1"=100' V: 1"=50'
Approved	BCH
Checked	JAO
Project No.	84176E
Project Location	PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Drawing Description	BIRCH AND HARDWOOD HILLS ACCESS ROAD AND CRANE PATH

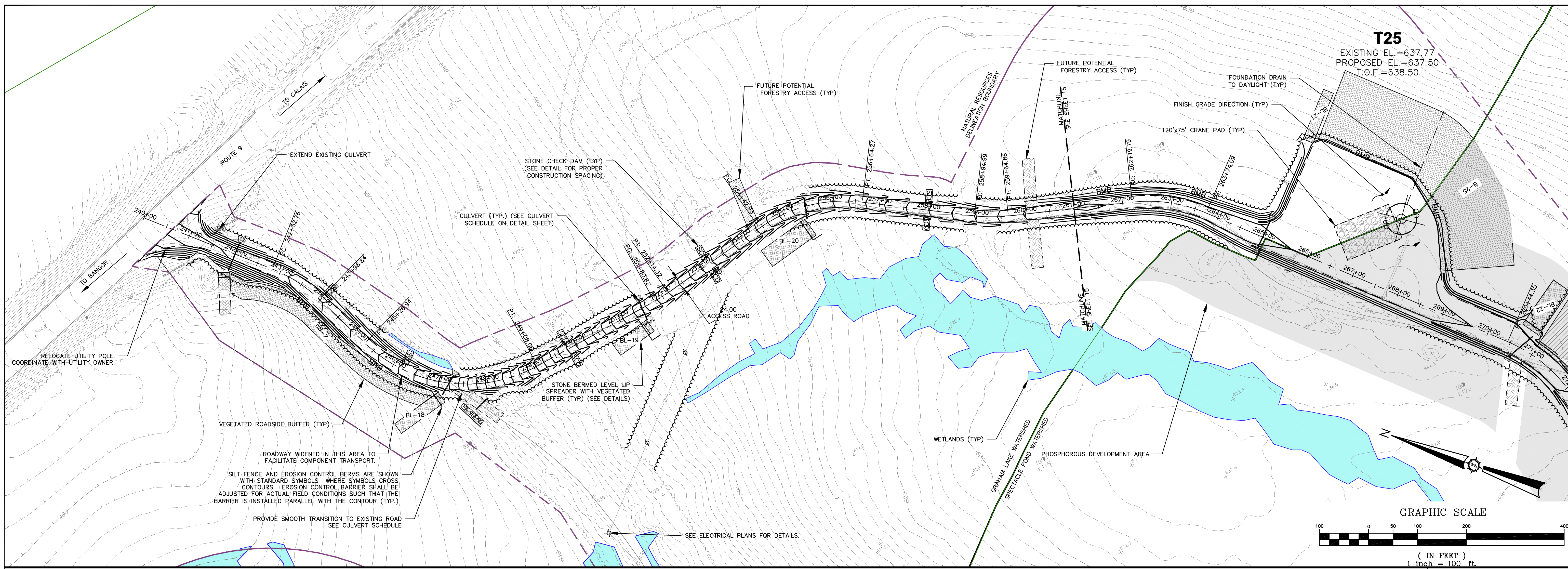
**84176E**

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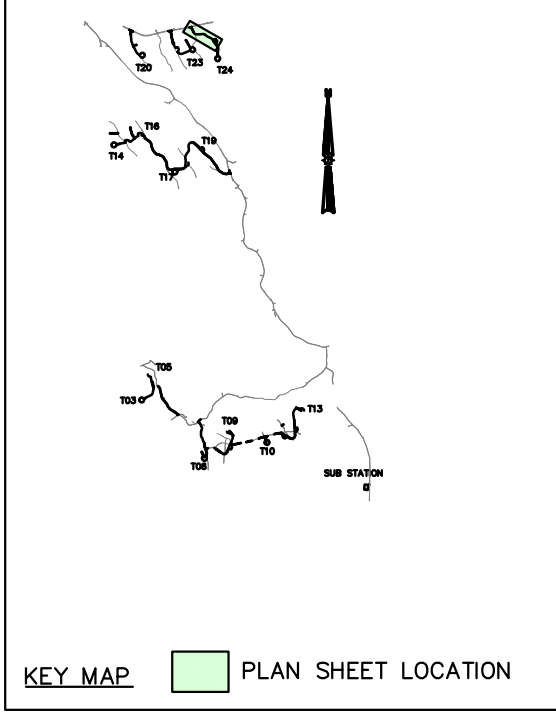
Phase: **PERMIT**

Sheet No.: **13**

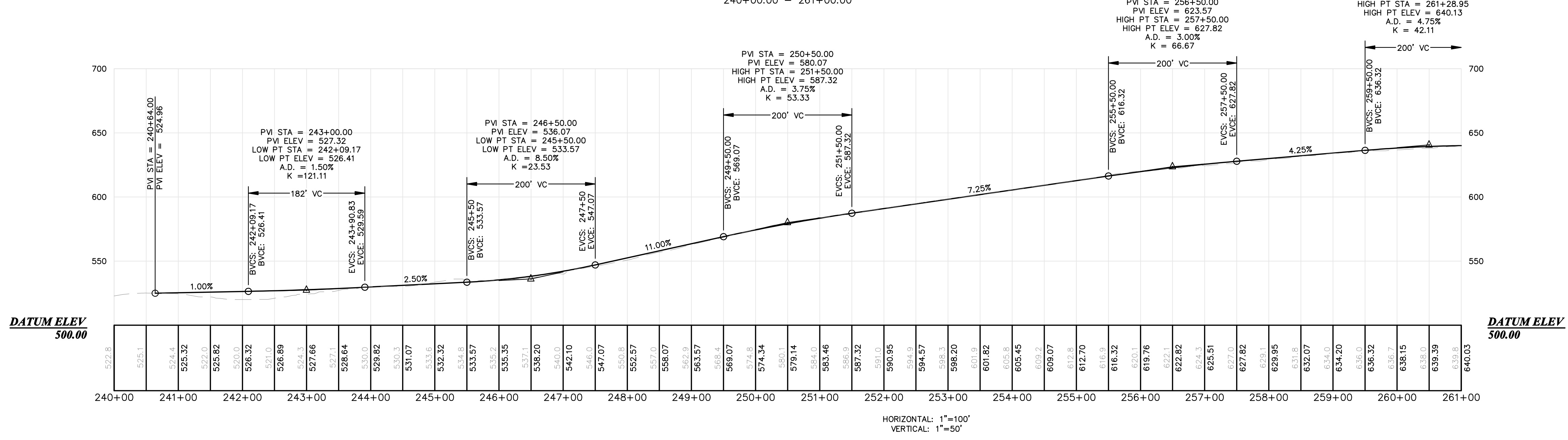
NOT FOR CONSTRUCTION



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**ACCESS AND CRANE PATH T24**  
240+00.00 - 261+00.00

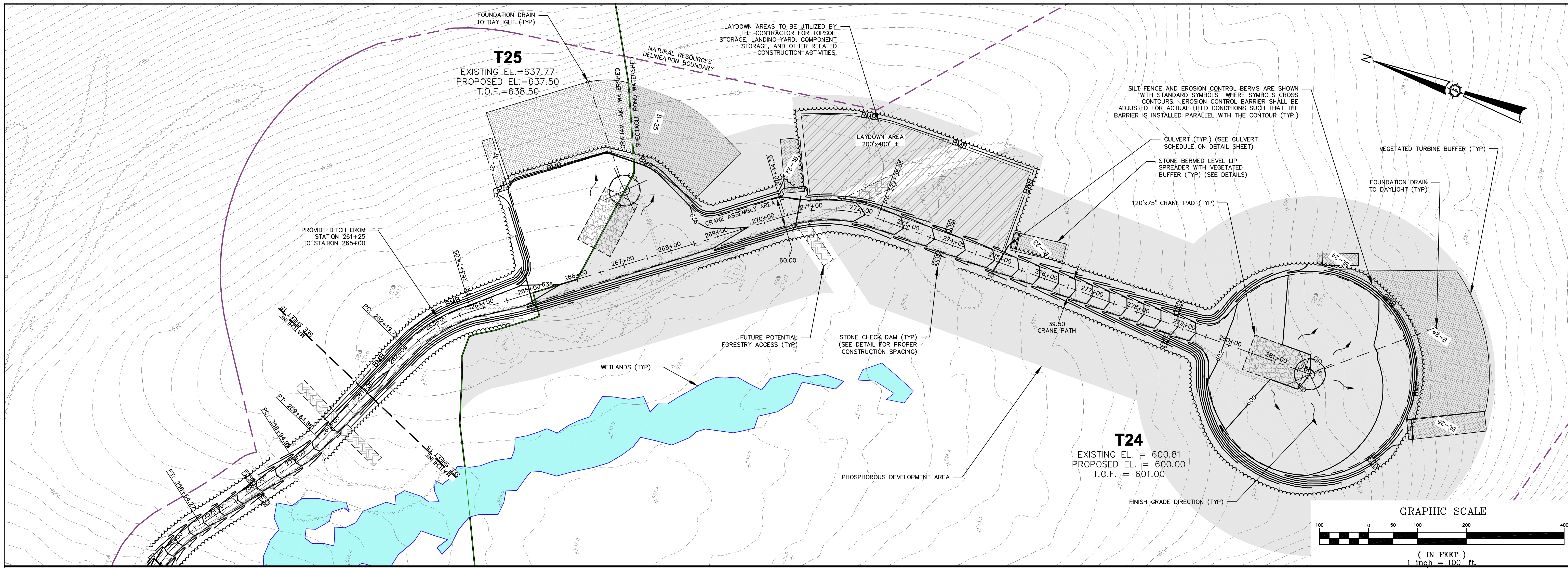


Project No.	84176E
Phase	PERMIT
Sheet No.	14
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC 129 MIDDLE STREET PORTLAND, ME
Project Location	EASTBROOK, OSBORN, T16MD, MAINE
Drawing Description	BIRCH AND HARDWOOD HILLS ACCESS ROAD AND CRANE PATH
Scale	H: 1"=100' V: 1"=50'
Drawn By	JAO/NT
Checked By	BOH
Design Date	10/29/2018
Design By	JAO/NT
Rev.	1
Date	

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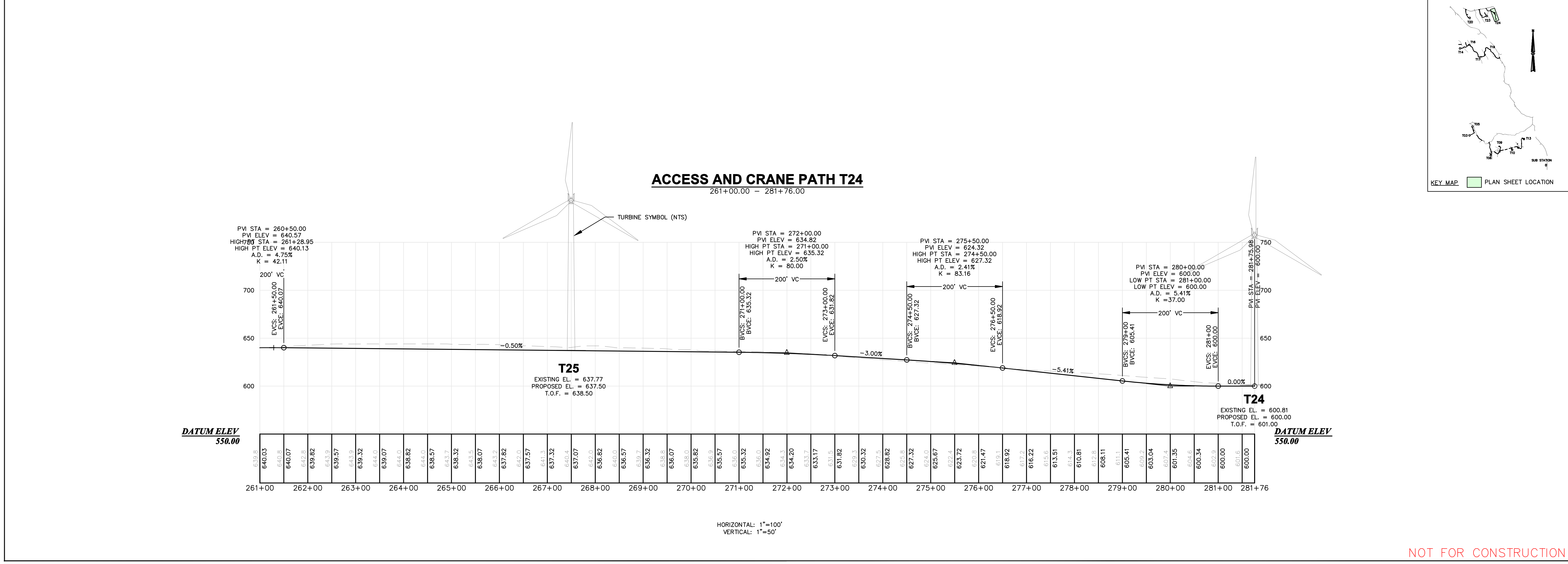
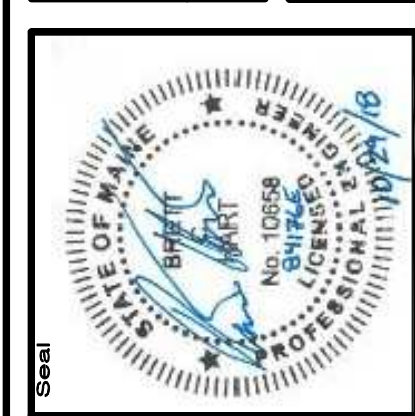
NOT FOR CONSTRUCTION



Rev.	By	Description

Drawn By JAO/NT	Checked By JAO
Design By BCH	Approved By BCH
Date 10/29/2018	Scale H: 1" = 100' V: 1" = 50'

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
PORTLAND, ME  
Project Location  
EASTBROOK, OSBORN, T16MD, MAINE  
Drawing Description  
BIRCH AND HARDWOOD HILLS  
ACCESS ROAD T25



Project No. **84176E**

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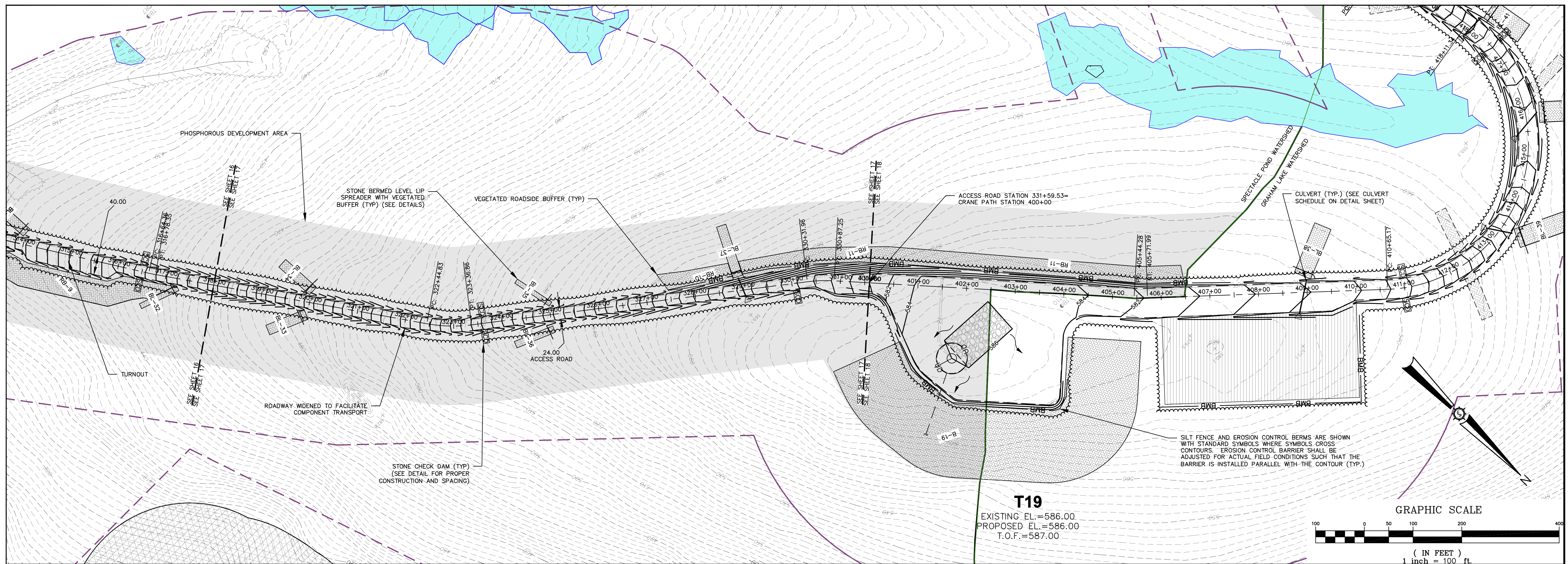
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Phase  
**PERMIT**

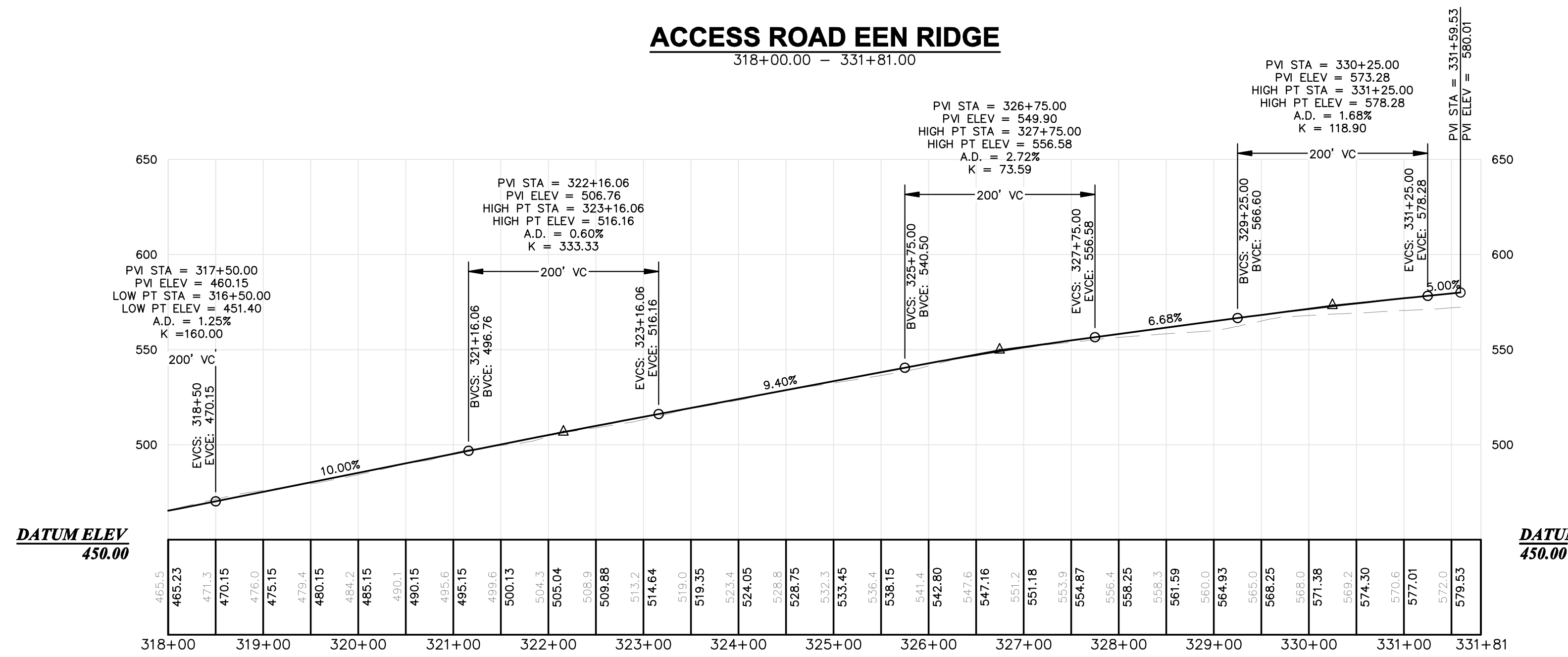
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NOT FOR CONSTRUCTION

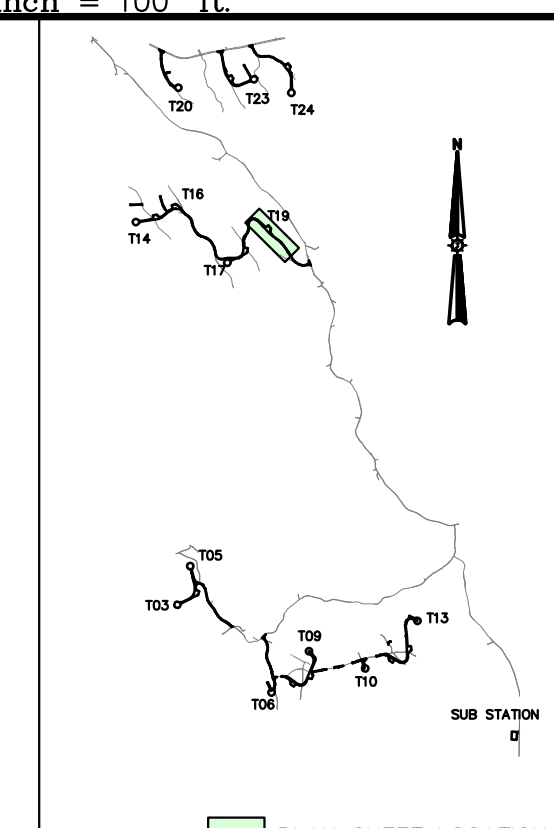




**ACCESS ROAD EEN RIDGE**  
 318+00.00 - 331+81.00



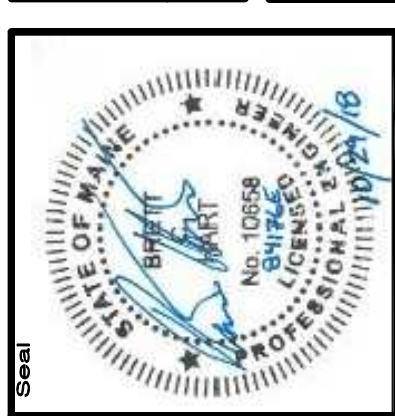
HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



Rev.	Drawn By	Description	Date
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Designed By	JAO/NT
Checked By	BCH
Date	10/29/2018
Scale	H: 1"=100' V: 1"=50'
Approved	JAO
Checked	BCH

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
 PORTLAND, ME  
 Project Location  
 EASTBROOK, OSBORN, T16MD, MAINE  
 Drawing Description  
**EEN AND WEAVER RIDGES EEN ACCESS ROAD**



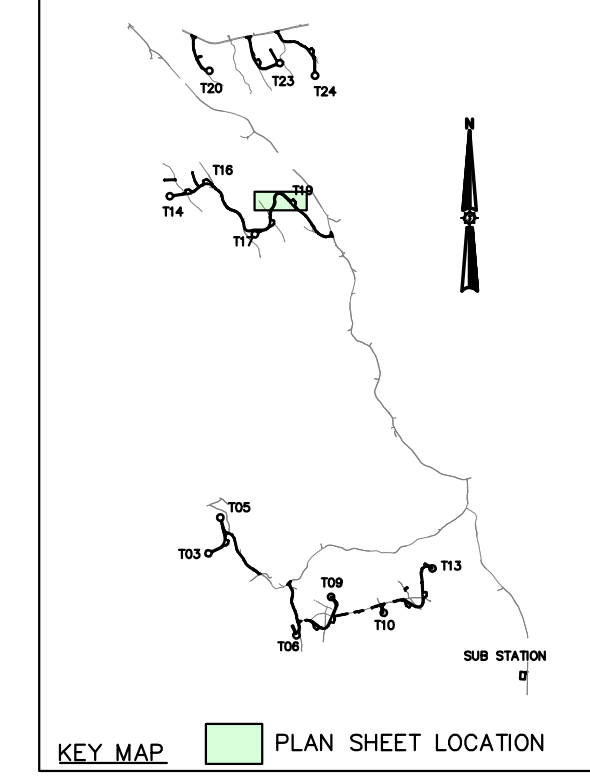
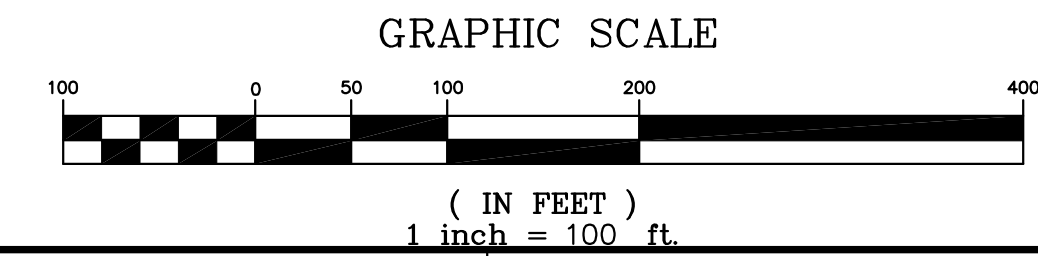
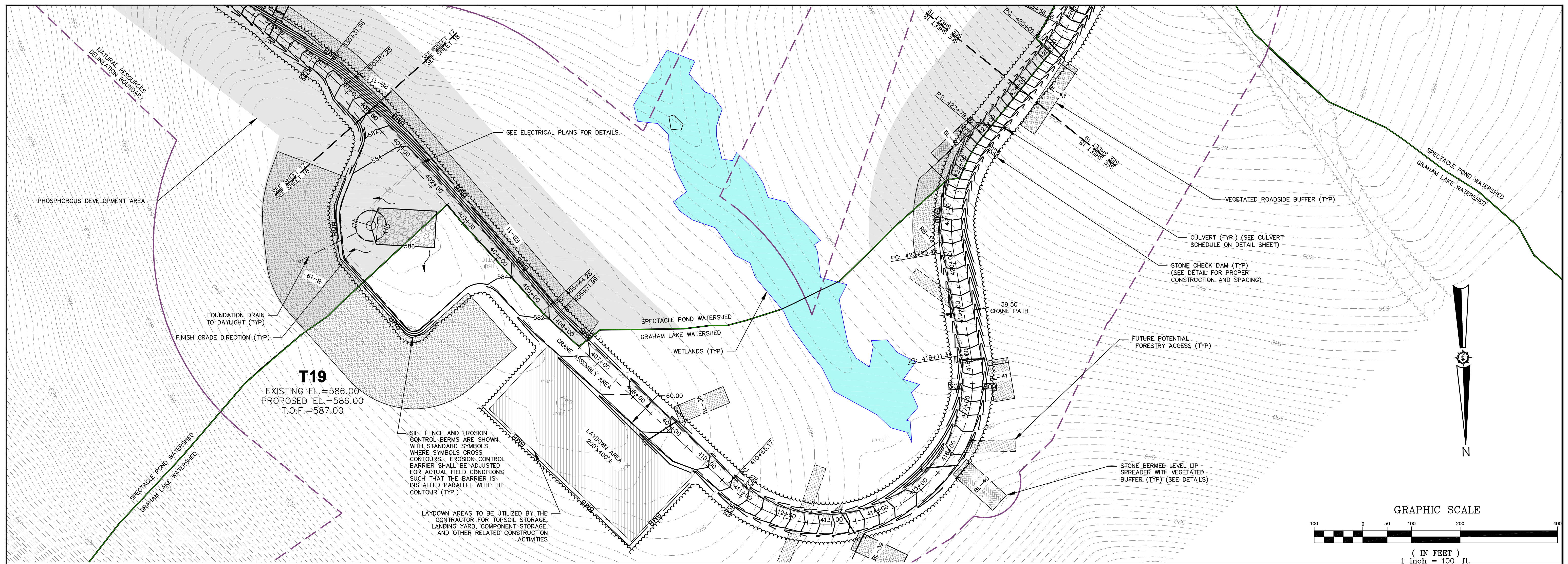
**84176E**  
 AN INTEGRATED TEAM OF  
**SEWALL**  
 GEOSPATIAL ENGINEERING,  
 SURVEYING AND NATURAL  
 RESOURCE CONSULTANTS  
 JAMES W. SEWALL COMPANY / Since 1880  
 SEWALL.COM  
 800.648.4202

Phase  
**PERMIT**

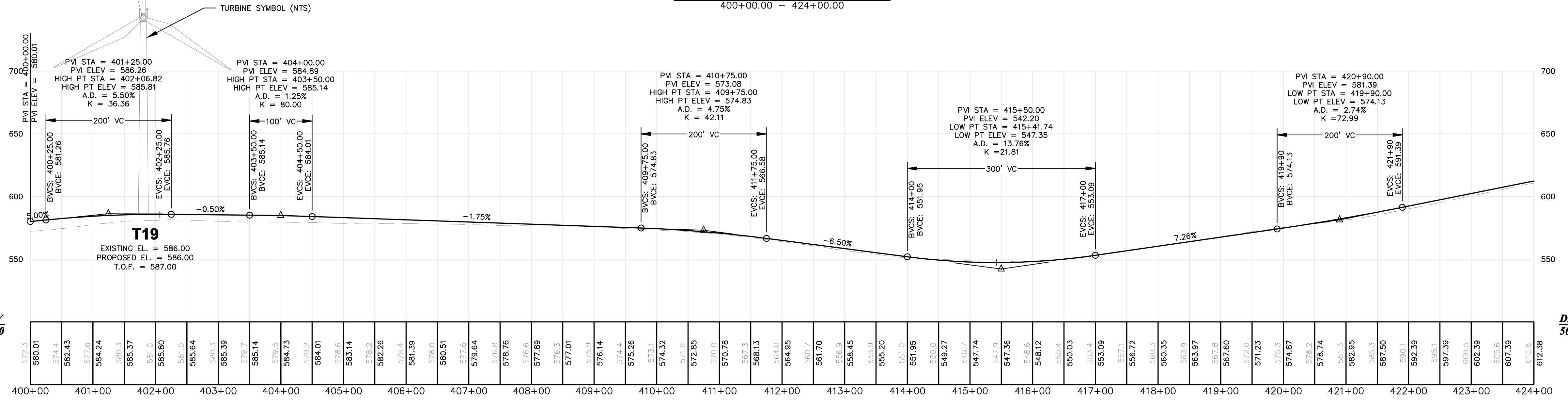
Sheet No.  
**17**

NOT FOR CONSTRUCTION





**CRANE PATH EEN RIDGE**  
400+00.00 - 424+00.00



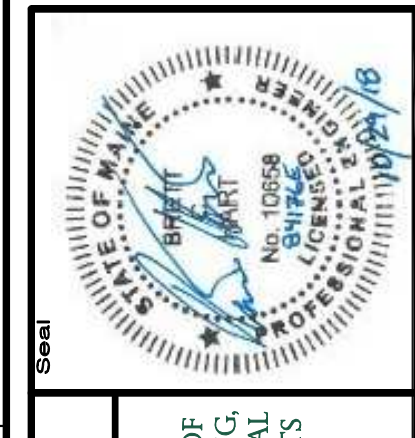
DATUM ELEV  
500.00

DATUM ELEV  
500.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

Drawn By	JAC/MT
Checked By	BCH
Date	10/29/2018
Scale	H: 1" = 100' V: 1" = 50'
Project Location	PORTLAND, ME
Project No.	84176E
Project Name	WEAVER WIND PROJECT
Client	WEAVER WIND, LLC
Project Address	129 MIDDLE STREET EASTBROOK, OSBORN, T16MD, MAINE
Project Description	EEN AND WEAVER RIDGES EEN ACCESS ROAD
Drawn By	JAC/MT
Checked By	BCH
Date	10/29/2018
Scale	H: 1" = 100' V: 1" = 50'
Project Location	PORTLAND, ME
Project No.	84176E
Project Name	WEAVER WIND PROJECT
Client	WEAVER WIND, LLC
Project Address	129 MIDDLE STREET EASTBROOK, OSBORN, T16MD, MAINE
Project Description	EEN AND WEAVER RIDGES EEN ACCESS ROAD

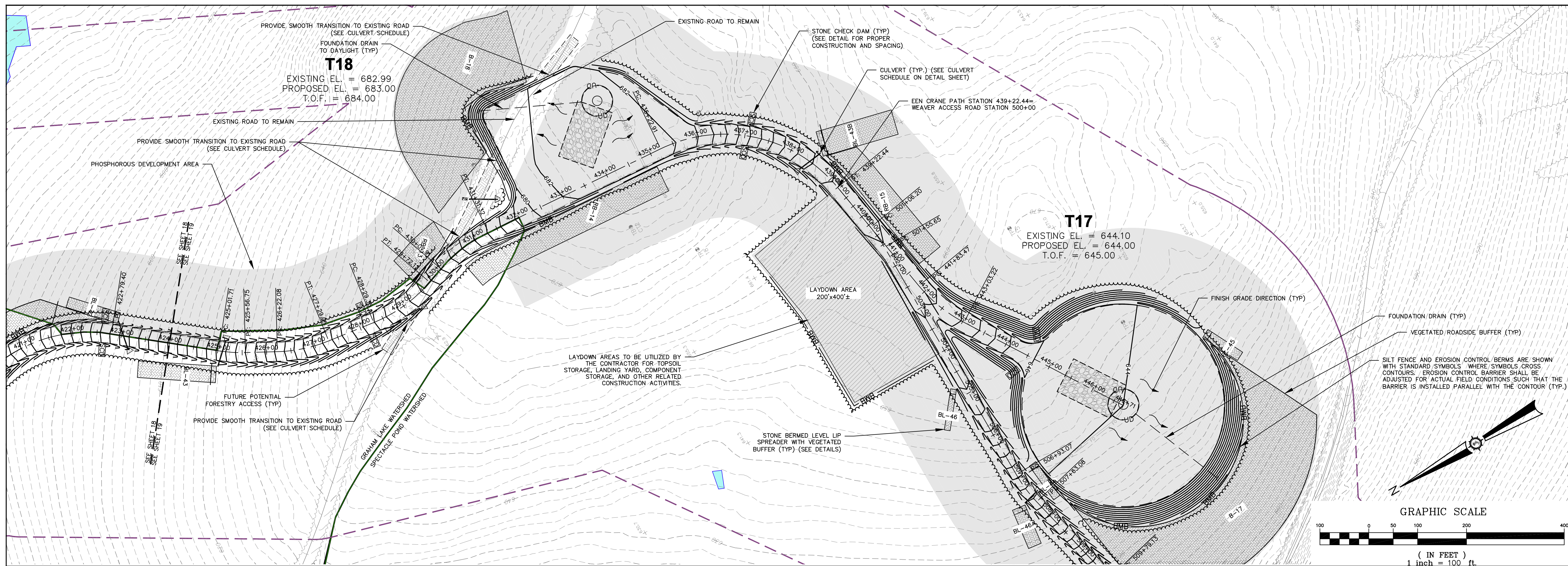
**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
129 MIDDLE STREET  
PORTLAND, ME  
EASTBROOK, OSBORN, T16MD, MAINE  
EEN AND WEAVER RIDGES  
EEN ACCESS ROAD



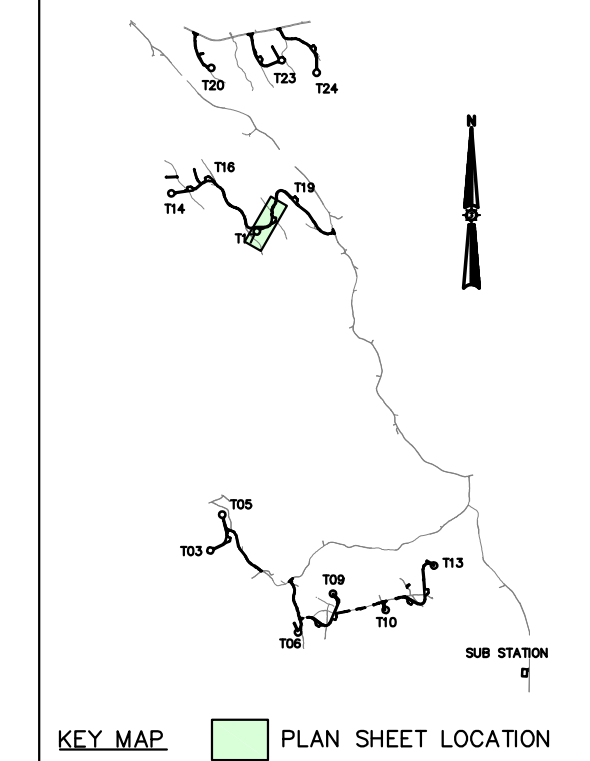
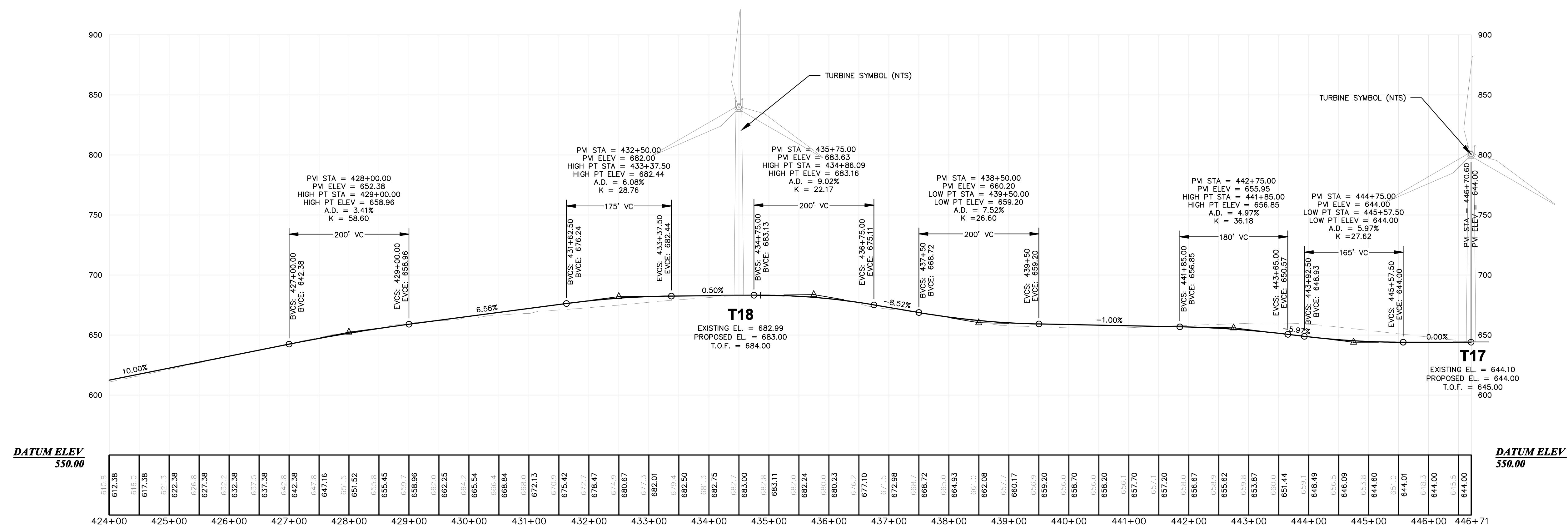
**84176E**

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SURVEYING AND NATURAL  
RESOURCE CONSULTANTS  
JAMES W. SEWALL COMPANY (Since 1880)  
800.648.4202  
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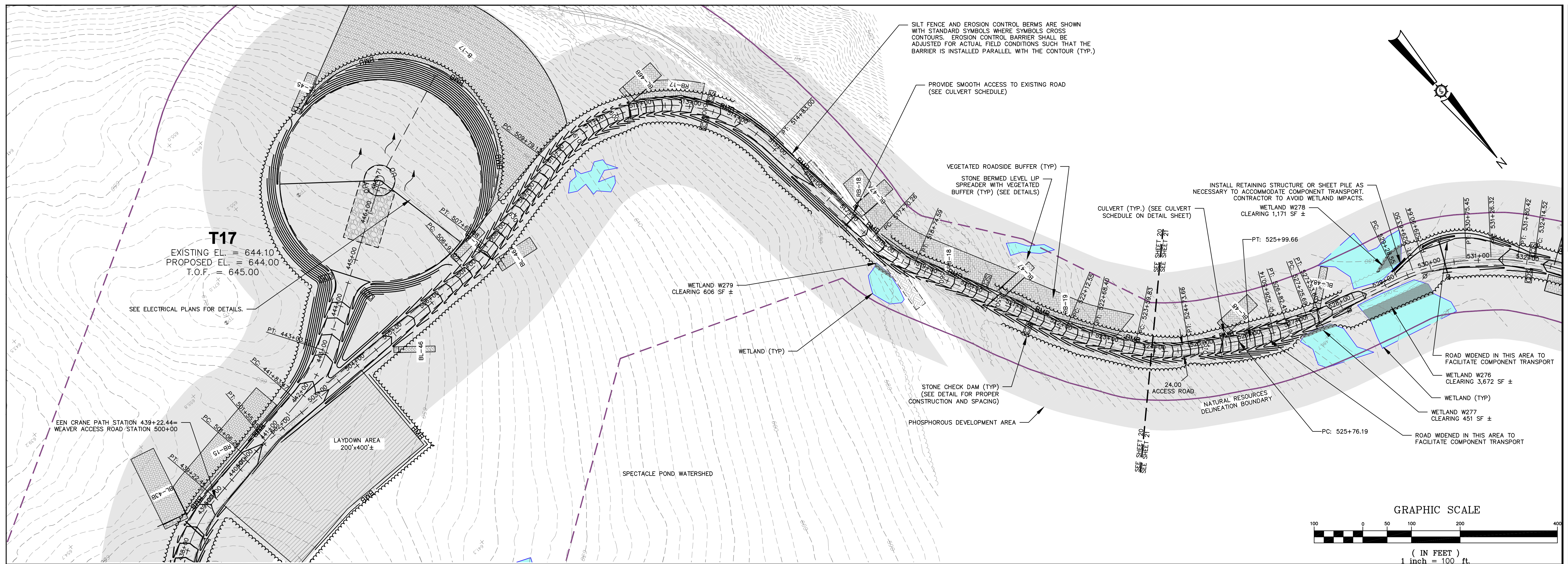
NOT FOR CONSTRUCTION



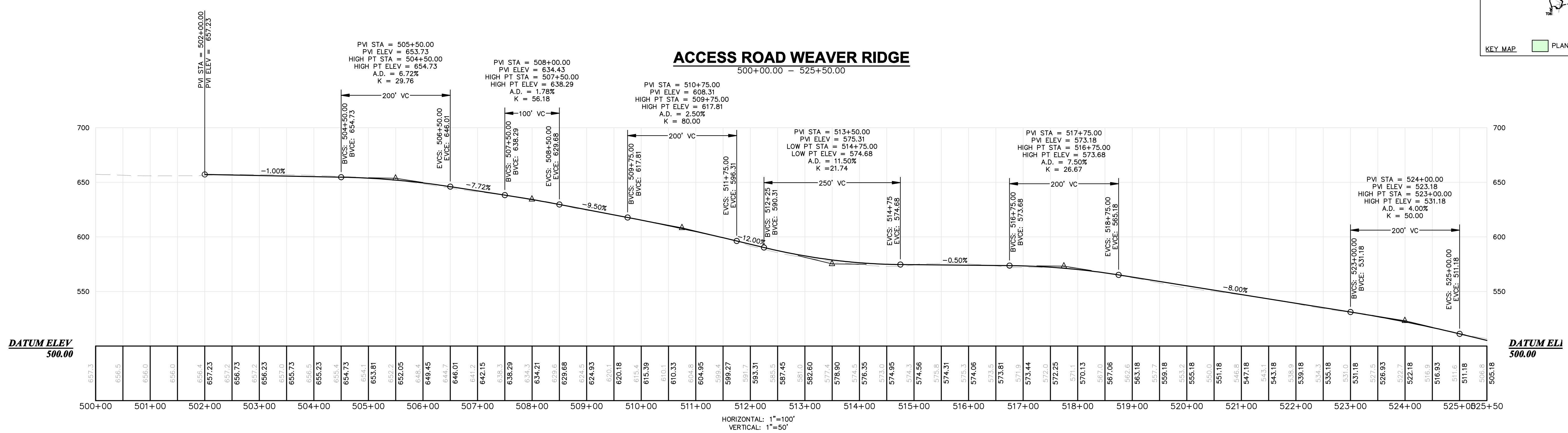
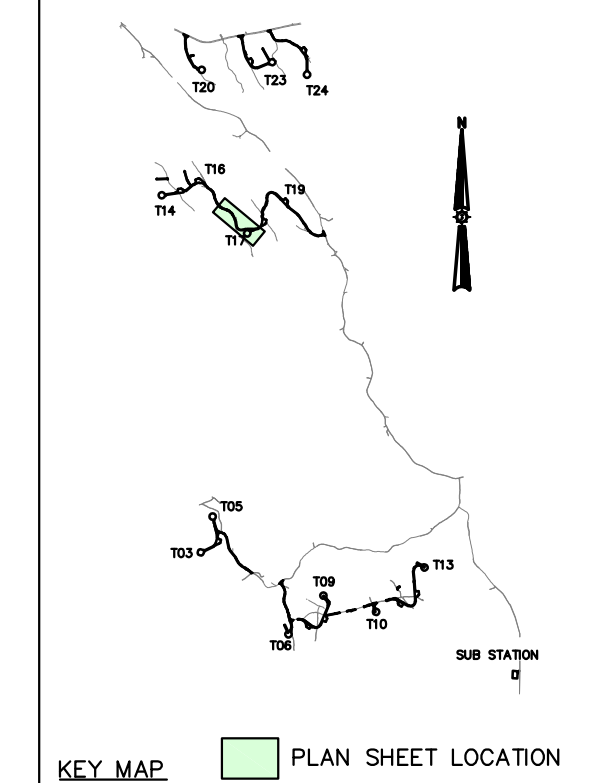
**CRANE PATH EEN RIDGE**  
424+00.00 - 446+71.00



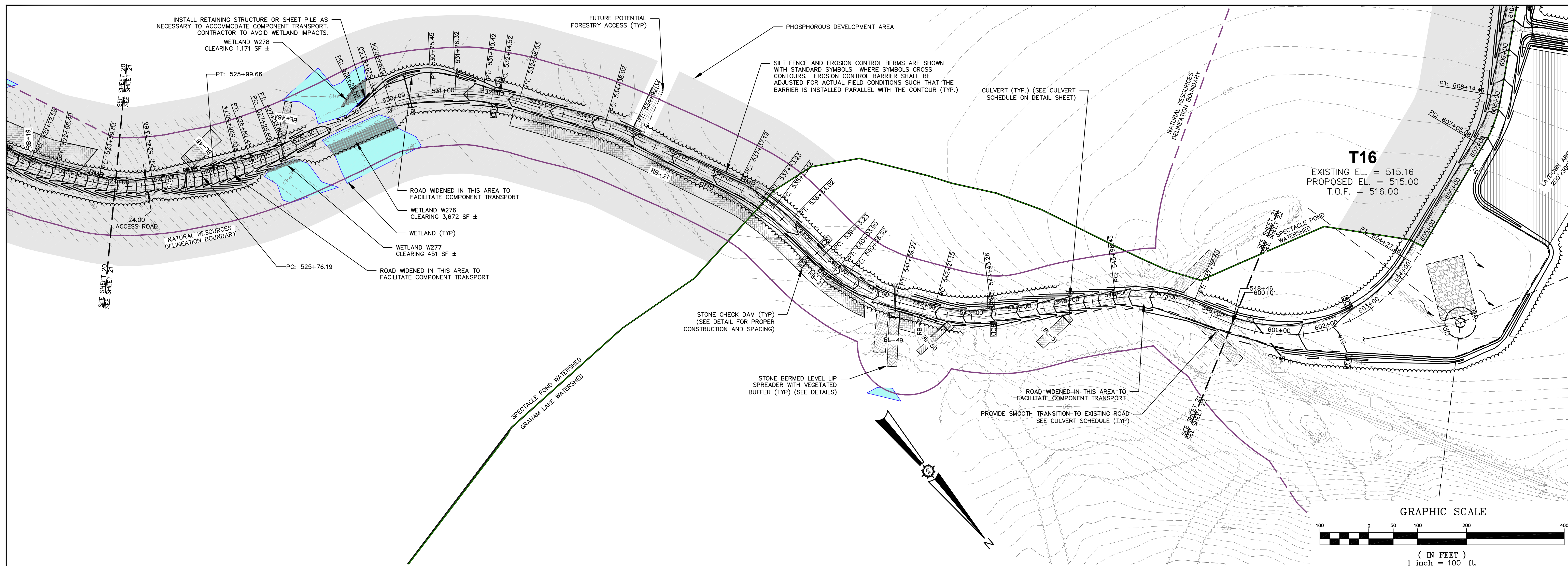
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Phase	PERMIT
Sheet No.	19
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC
Project Location	129 MIDDLE STREET PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE EEN AND WEAVER RIDGES EEN CRANE PATH
Drawn By	JAO/NT
Checked By	JAO
Date	10/29/2018
Scale	H: 1" = 100' V: 1" = 50'
Author	BOH
Approved	JAO
Drawn	JAO
Checked	JAO
Date	
Rev.	
Drawn By	
Checked By	
Date	
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Drawn	
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Date	
Rev.	



PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 516+00 TO 529+25 AND 529+75 TO 546+50 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROADS IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.



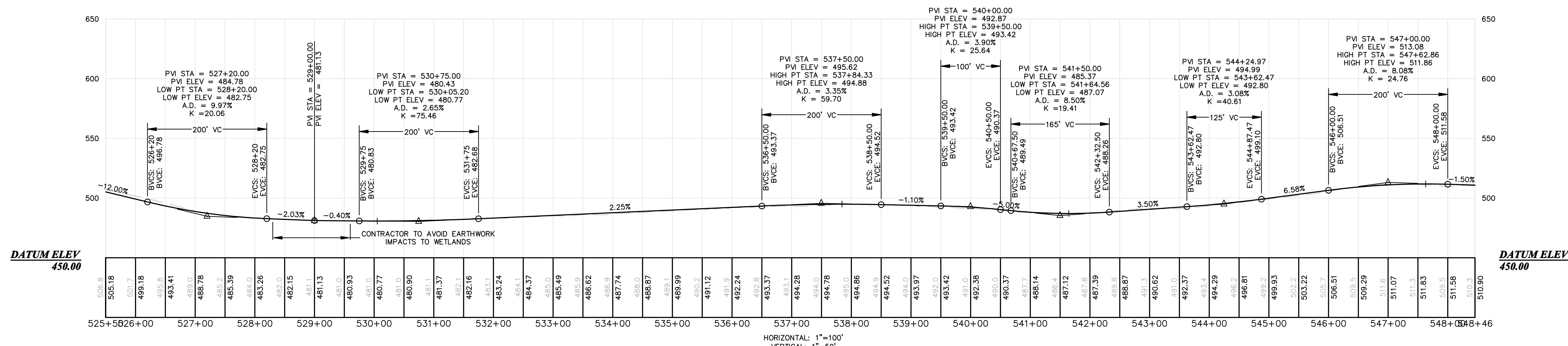
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Date 10/29/2018	Scale H: 1" = 100' V: 1" = 50'	Project Location 129 MIDDLE STREET PORTLAND, ME	Sheet No. 20
Approved BOH	Client WEAVER WIND PROJECT WEAVER WIND, LLC	Drawing Description EEN CRANE PATH	NOT FOR CONSTRUCTION
Author JAO	Project Location EASTBROOK, OSBORN, T16MD, MAINE	Professional Seal SEWALL JAMES W. SEWALL COMPANY SINCE 1880 SEWALL.COM 800.648.4202	



PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 516+00 TO 528+25 AND 529+75 TO 548+50 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROADS IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.

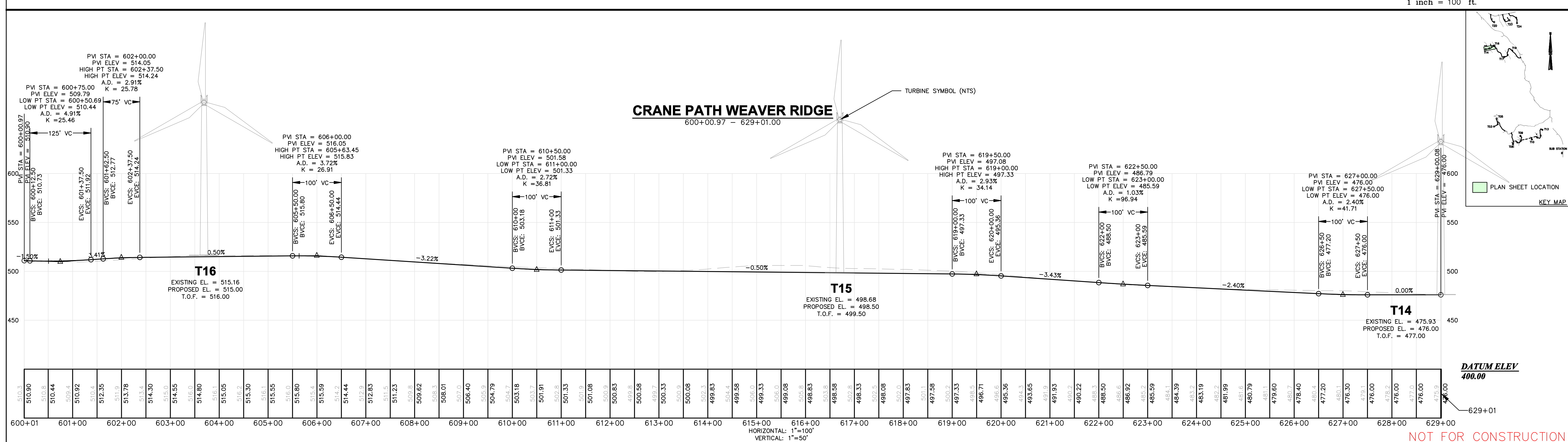
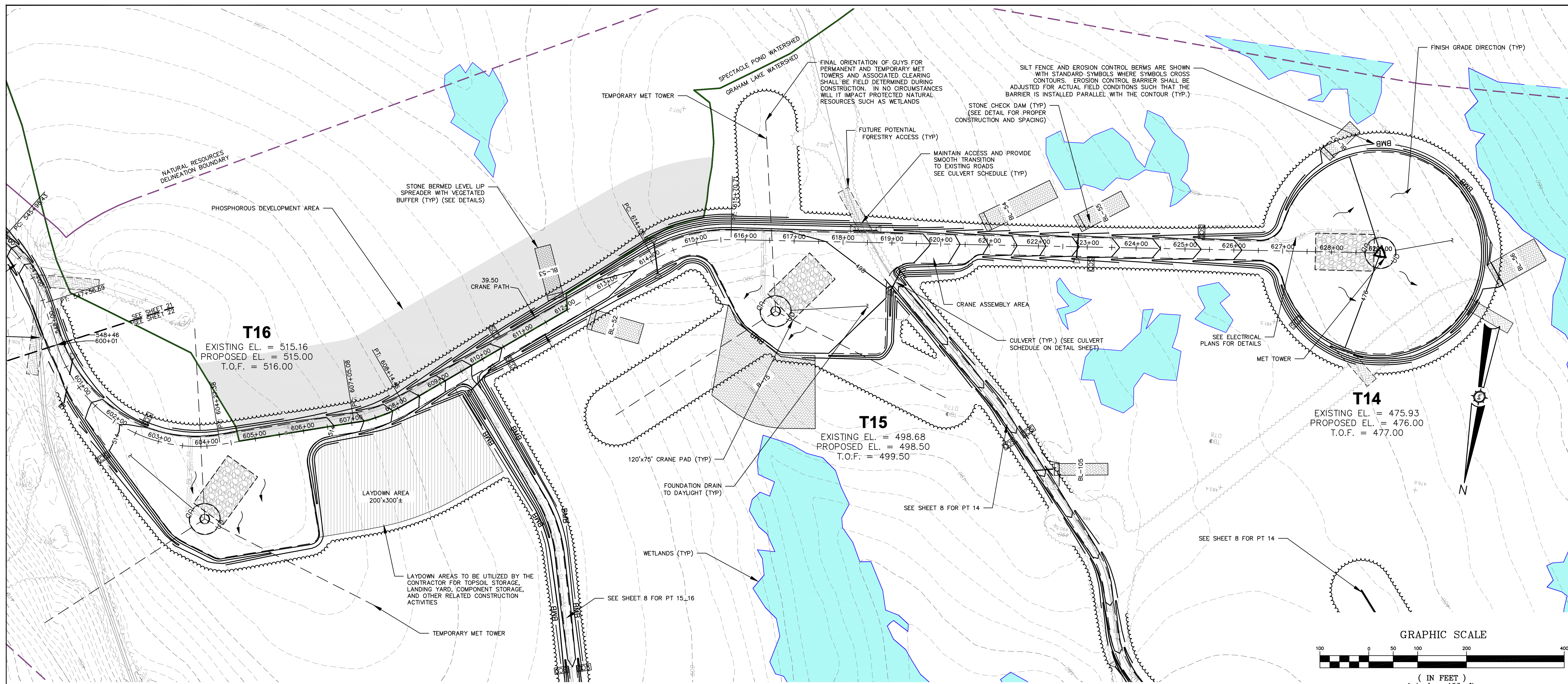
**ACCESS ROAD WEAVER RIDGE**

525+50.00 - 548+45.66



NOT FOR CONSTRUCTION

Drawn By: JAO/NT	Checked: JAO
Date: 10/29/2018	Approved: BOH
Scale: H:1"=100' V:1"=50'	Project Location: EASTBROOK, OSBORN, T16MD, MAINE
Project No: 84176E	Sheet No: 21
<p><b>WEAVER WIND PROJECT</b>  <b>WEAVER WIND, LLC</b>          129 MIDDLE STREET          PORTLAND, ME          EASTBROOK, OSBORN, T16MD, MAINE          EEN AND WEAVER RIDGES          EEN CRANE PATH</p>	
<p>AN INTEGRATED TEAM OF          GEOSPATIAL ENGINEERING,          SURVEYING AND NATURAL          RESOURCE CONSULTANTS</p> <p><b>SEWALL</b>          JAMES W. SEWALL COMPANY (Since 1880)          SEWALL.COM          800.648.4202</p>	
<p>STATE OF MAINE          PROFESSIONAL SURVEYORS          REGISTRATION NO. 10749</p>	
<p>PERMIT</p>	



Drawn By	JAO/NT
Checked By	BOH
Date	10/29/2018
Scale	H: 1"=100' V: 1"=50'
Project No.	84176E
Project Location	PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Client	WEAVER WIND PROJECT WEAVER WIND, LLC
Project Description	WEAVER CRANE PATH
Drawn	JAO
Checked	BOH
Approved	JAO

AN INTEGRATED TEAM OF  
 GEOSPATIAL ENGINEERING,  
 SURVEYING AND NATURAL  
 RESOURCE CONSULTANTS

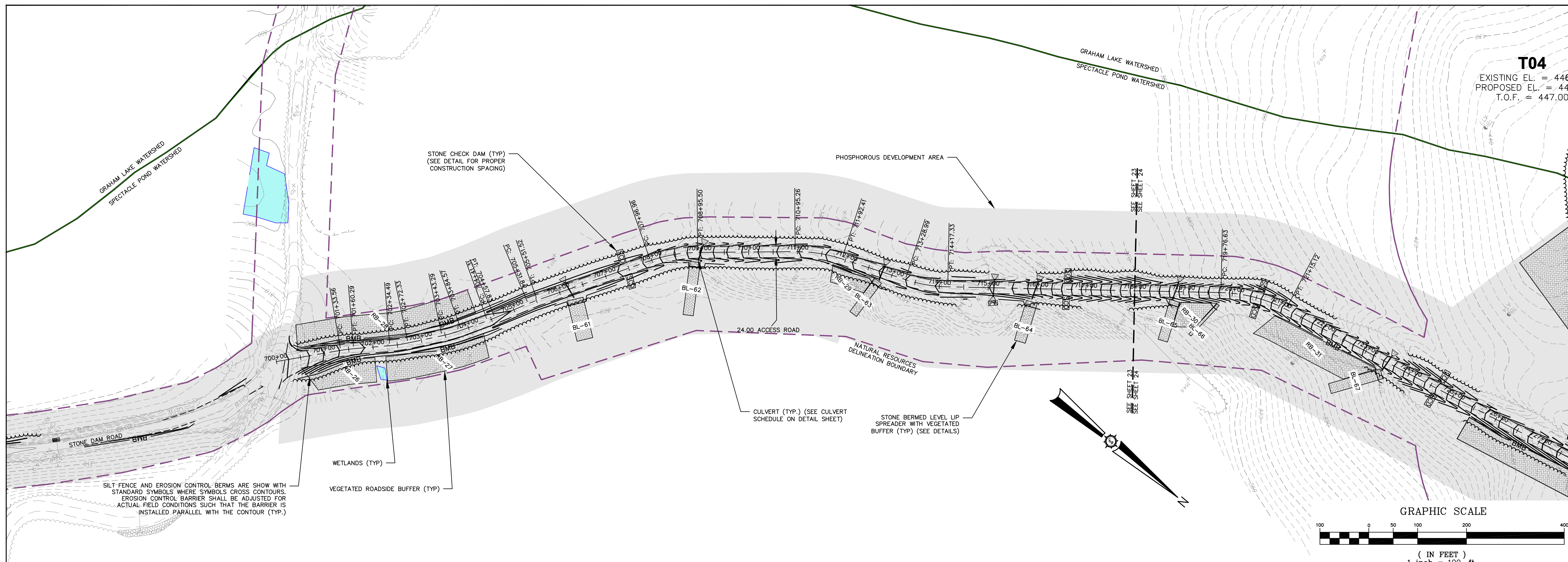
**SEWALL**  
 JAMES W. SEWALL COMPANY Since 1880  
 800.648.4202  
 SEWALL.COM

84176E

PERMIT

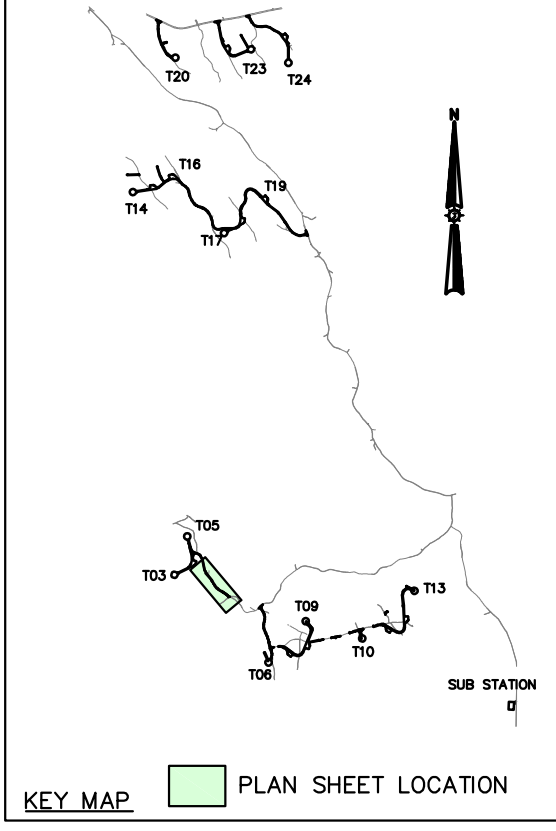
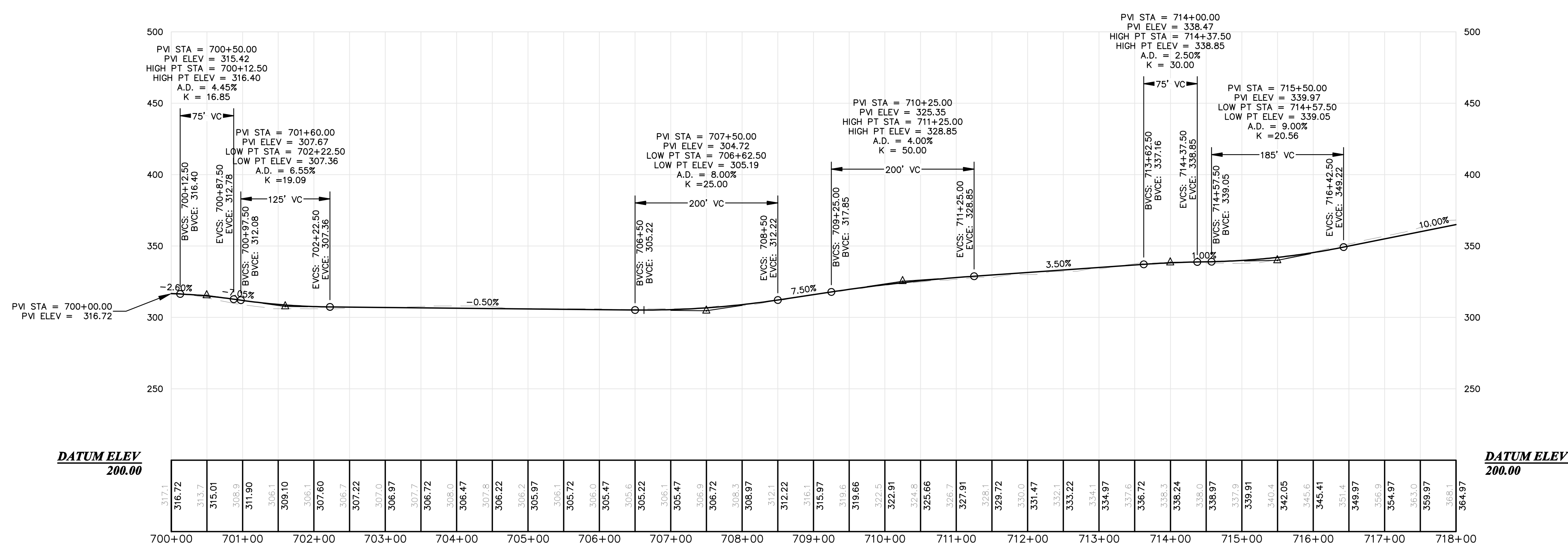
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NOT FOR CONSTRUCTION



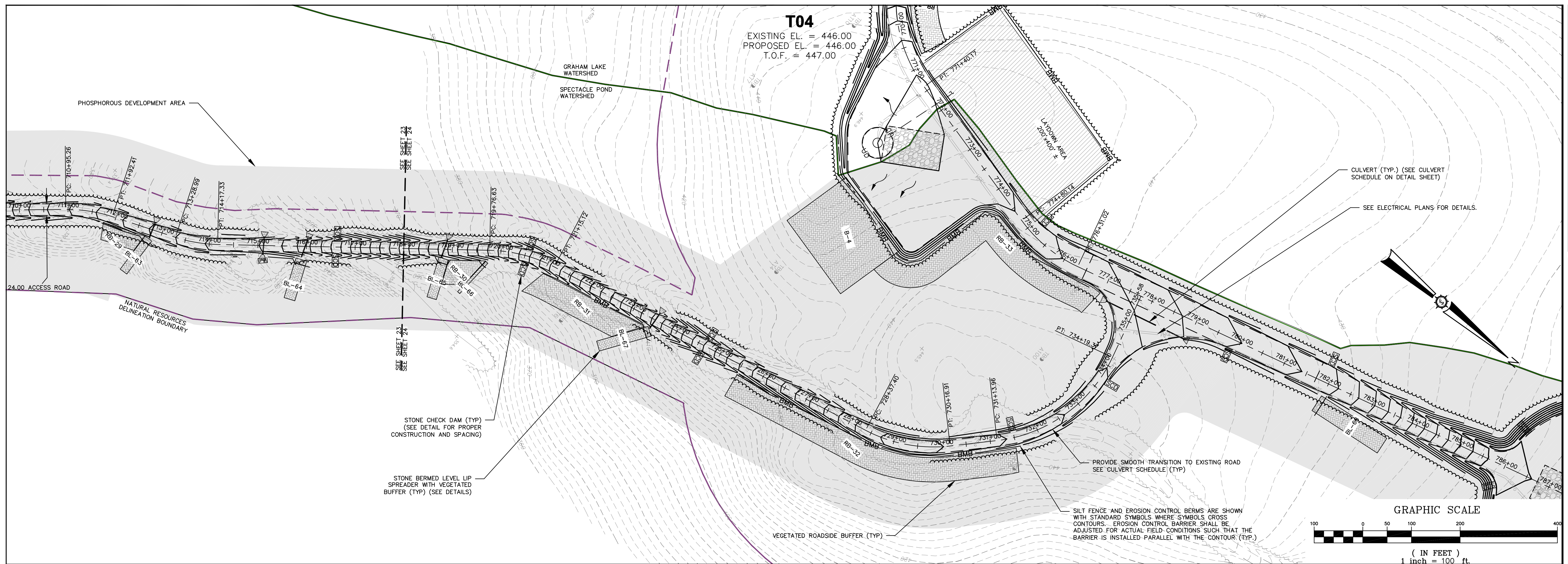
**ACCESS ROAD LBH WEST**  
 700+00.00 - 718+00.00

PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 700+00 TO 732+00 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROAD IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.



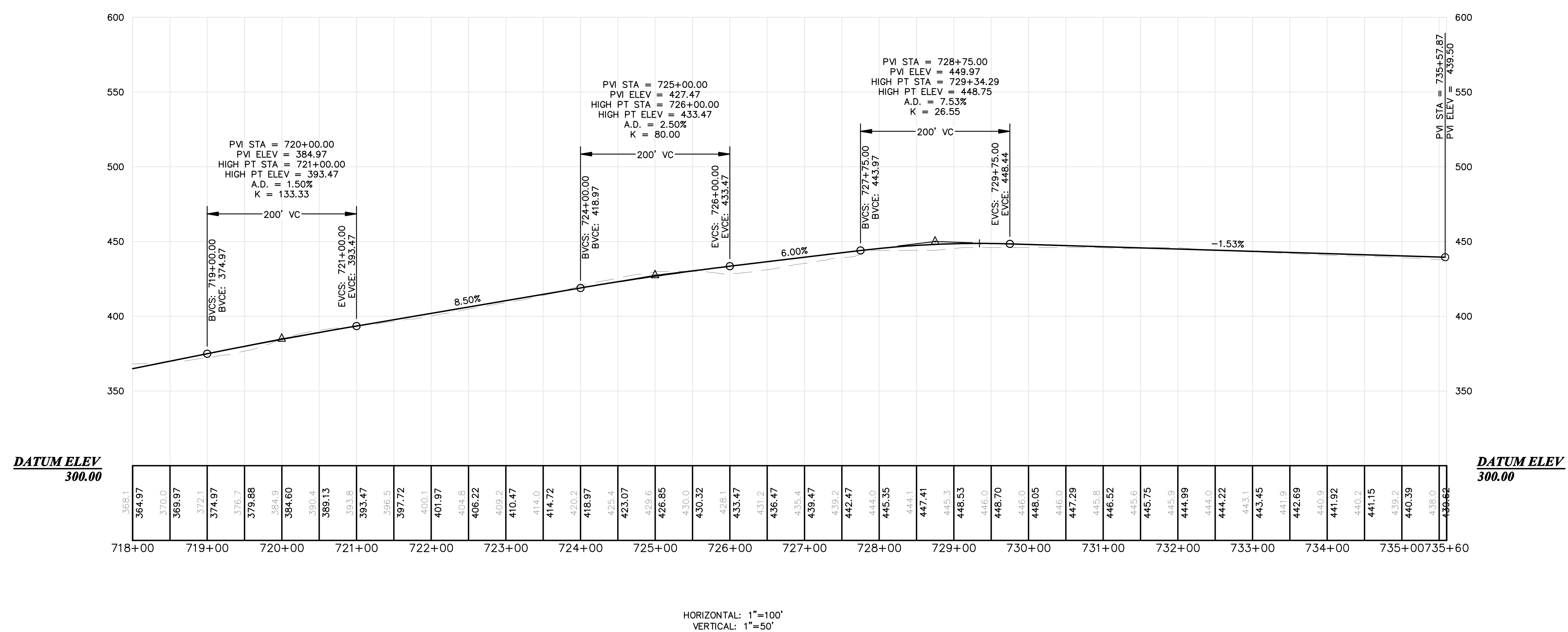
Drawn By JAO/NT	Checked By JAO
Date 10/29/2018	Approved BOH
Scale H: 1" = 100' V: 1" = 50'	Project Location PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
<b>WEAVER WIND PROJECT</b> <b>WEAVER WIND, LLC</b> 129 MIDDLE STREET PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE LITTLE BULL HILL WEST ACCESS ROAD	
<b>84176E</b> AN INTEGRATED TEAM OF GEOSPATIAL ENGINEERING, SURVEYING AND NATURAL RESOURCE CONSULTANTS <b>SEWALL</b> JAMES W. SEWALL COMPANY / Since 1880 800.648.4202 SEWALL.COM	
<b>PERMIT</b>	
Sheet No. <b>23</b>	

NOT FOR CONSTRUCTION



**ACCESS ROAD LBH WEST**  
718+00.00 - 735+60.00

PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 700+00 TO 732+00 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROAD IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.



NOT FOR CONSTRUCTION

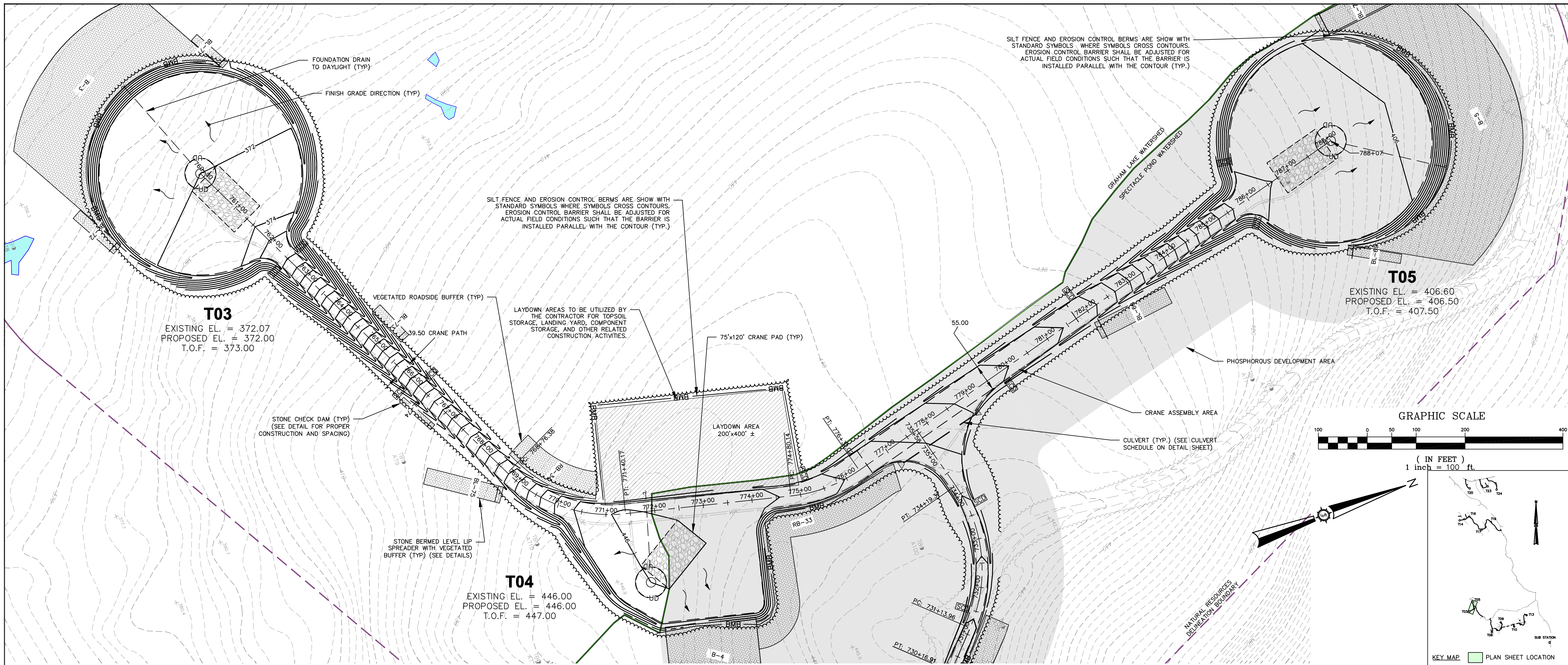
**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
129 MIDDLE STREET  
PORTLAND, ME  
Project Location  
EASTBROOK, OSBORN, T16MD, MAINE  
Drawing Description  
LITTLE BULL HILL WEST  
ACCESS ROAD

Designed By: BCH  
Date: 10/29/2018  
Scale: H: 1" = 100' V: 1" = 50'  
Approved: BCH  
Checked: JAO

Project No. **84176E**

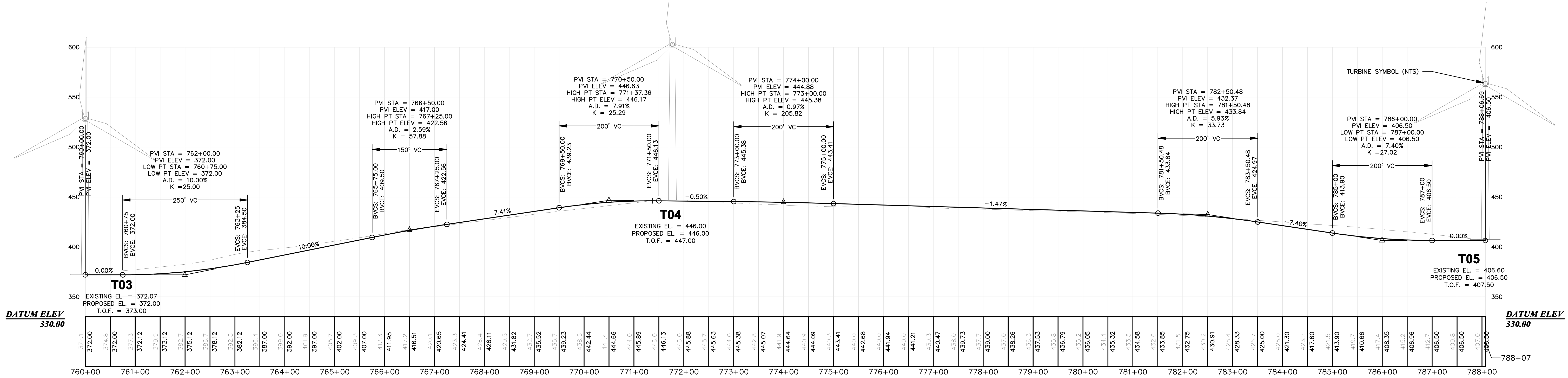
**SEWALL**  
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GEOSPATIAL ENGINEERING,  
SURVEYING AND NATURAL  
RESOURCE CONSULTANTS  
JAMES W. SEWALL COMPANY / Since 1880  
800.648.4202  
SEWALL.COM

Professional Seal: State of Maine, Professional Engineer, No. 107476, James W. Sewall



**CRANE PATH LBH WEST**

760+00.00 - 788+07.00



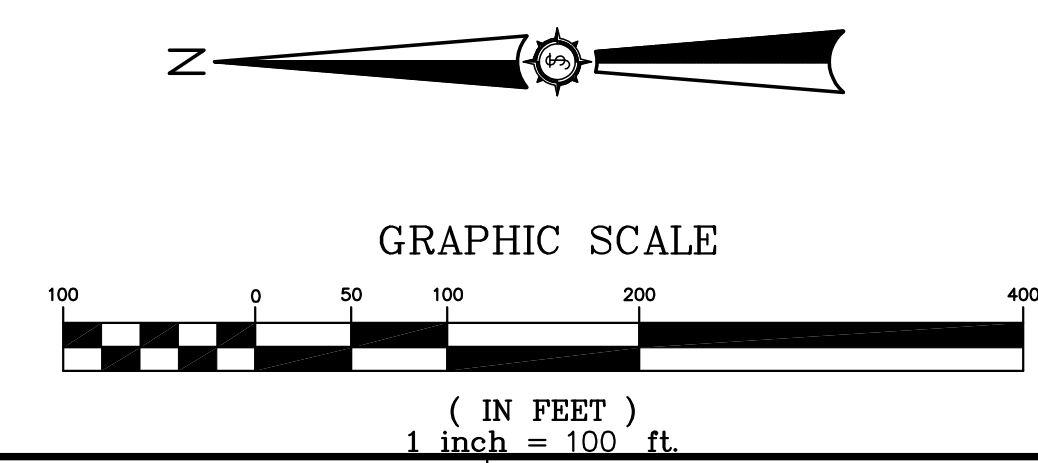
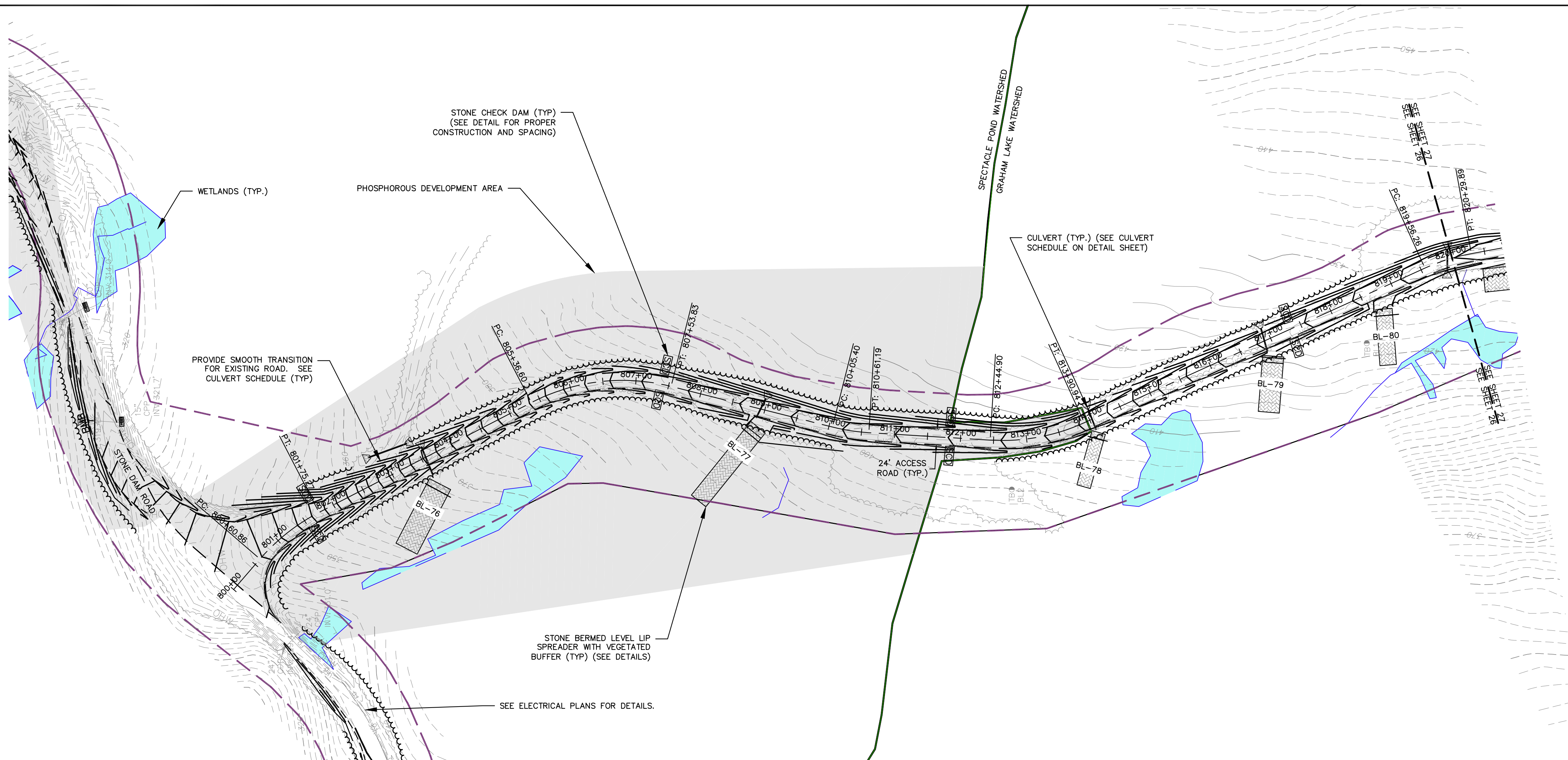
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

Project No. 84176E  
Project Name WEAVER WIND PROJECT  
Client WEAVER WIND, LLC  
Project Location 129 MIDDLE STREET, PORTLAND, ME  
Drawing Description LITTLE BULL HILL WEST ACCESS ROAD  
Scale H: 1"=100' V: 1"=50'  
Date 10/29/2018  
Drawn By JAO/NT  
Checked By JAO  
Approved By BOH  
Date 10/29/2018

84176E  
SEWALL  
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SURVEYING AND NATURAL  
RESOURCE CONSULTANTS  
JAMES W. SEWALL COMPANY (Since 1880)  
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PERMIT  
Sheet No. 25

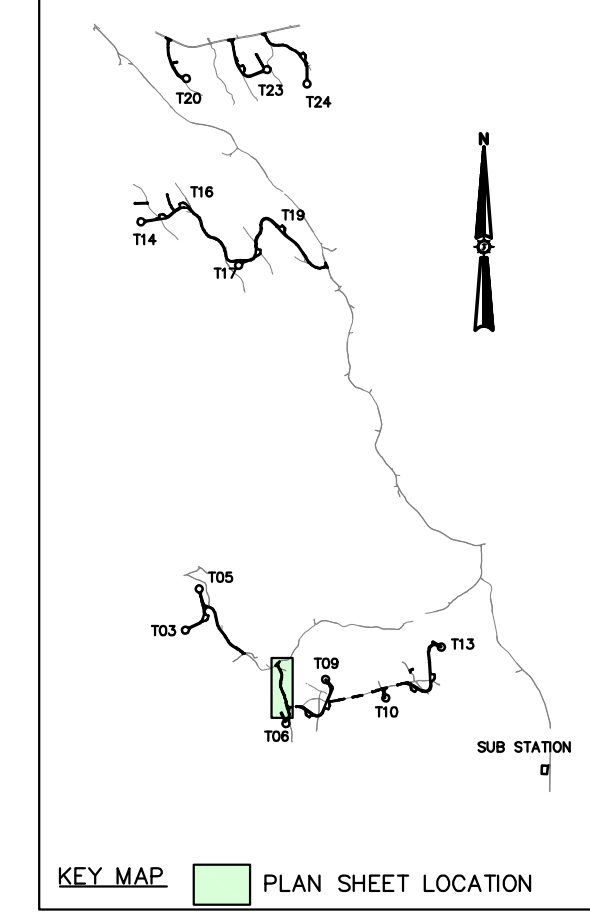
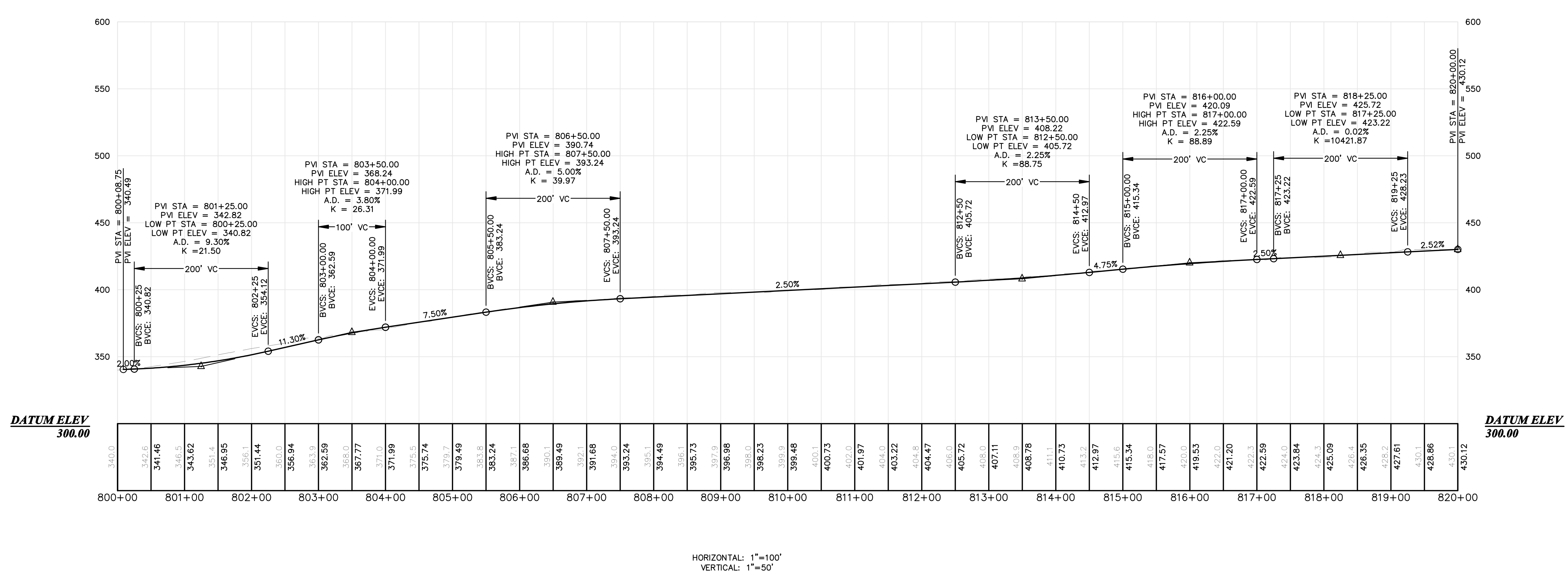
NOT FOR CONSTRUCTION





PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 800+00 TO 822+00 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROAD IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.

**ACCESS ROAD LBH T6**  
800+00.00 - 820+00.00



**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
129 MIDDLE STREET  
PORTLAND, ME

Project Location  
EASTBROOK, OSBORN, T16MD, MAINE

Drawing Description  
LITTLE BULL HILL  
ACCESS ROAD

Drawn By: JAO/NT  
Checked: JAO

Designed By: BCH  
Date: 10/29/2018  
Scale: H: 1"=100' V: 1"=50'

Approved: BCH

Rev.	By	Description	Date

Project No: **84176E**

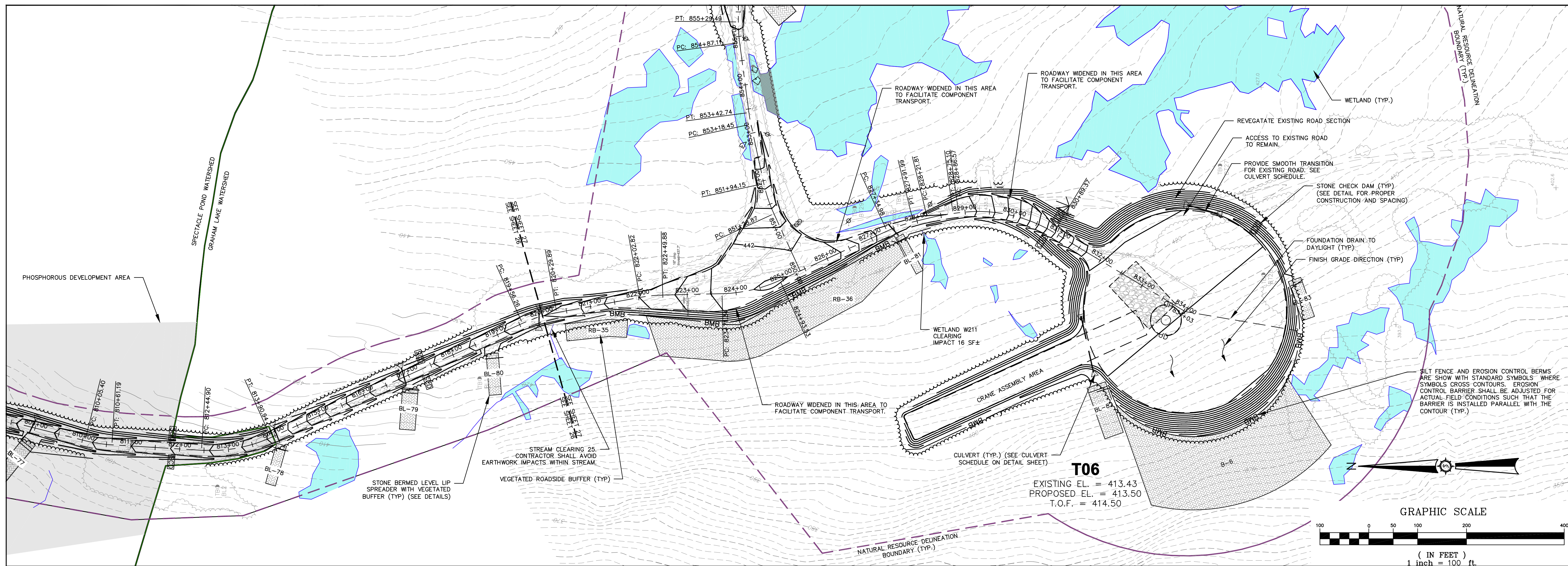
AN INTEGRATED TEAM OF  
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SURVEYING AND NATURAL  
RESOURCE CONSULTANTS

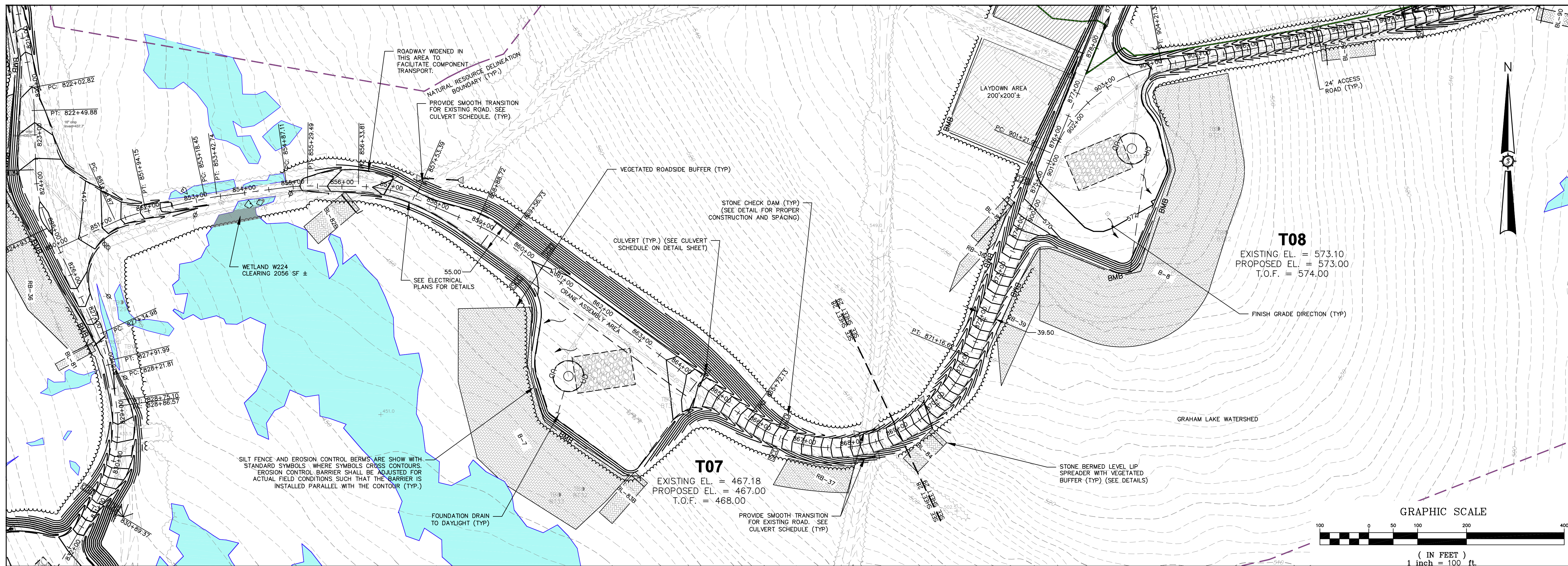
**SEWALL**  
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SEWALL.COM

Phase: **PERMIT**

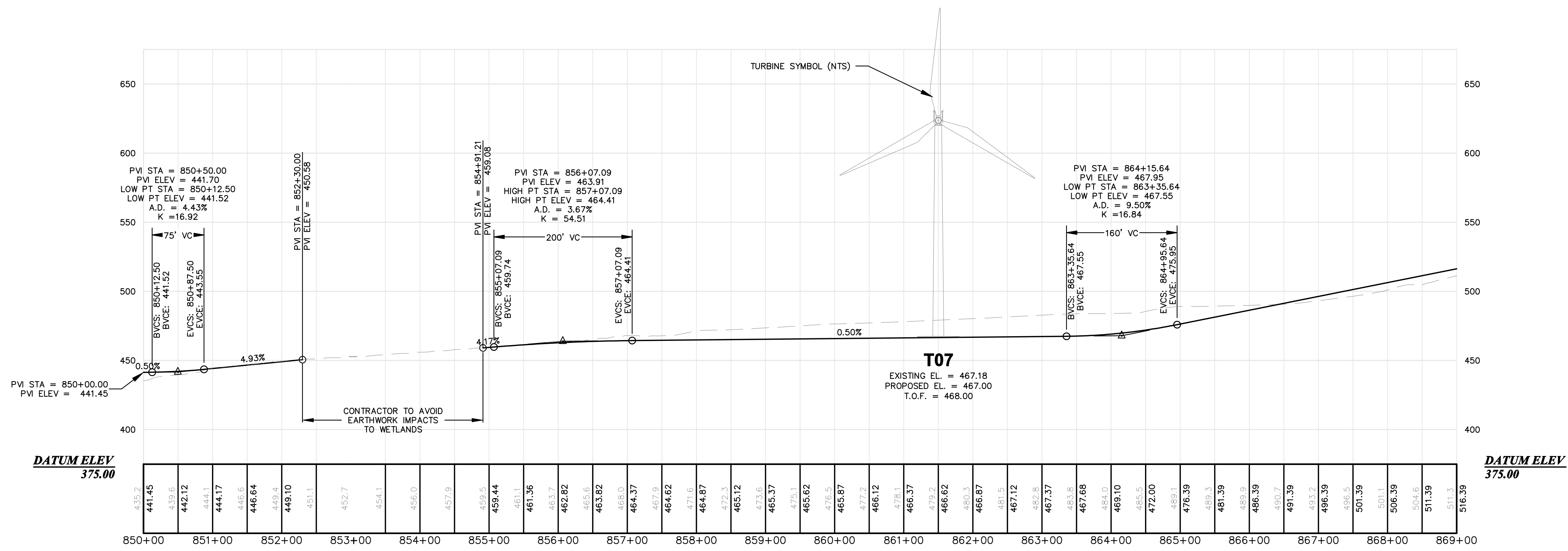
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NOT FOR CONSTRUCTION





**ACCESS ROAD AND CRANE PATH LBH T9**  
850+00.00 - 869+00.00



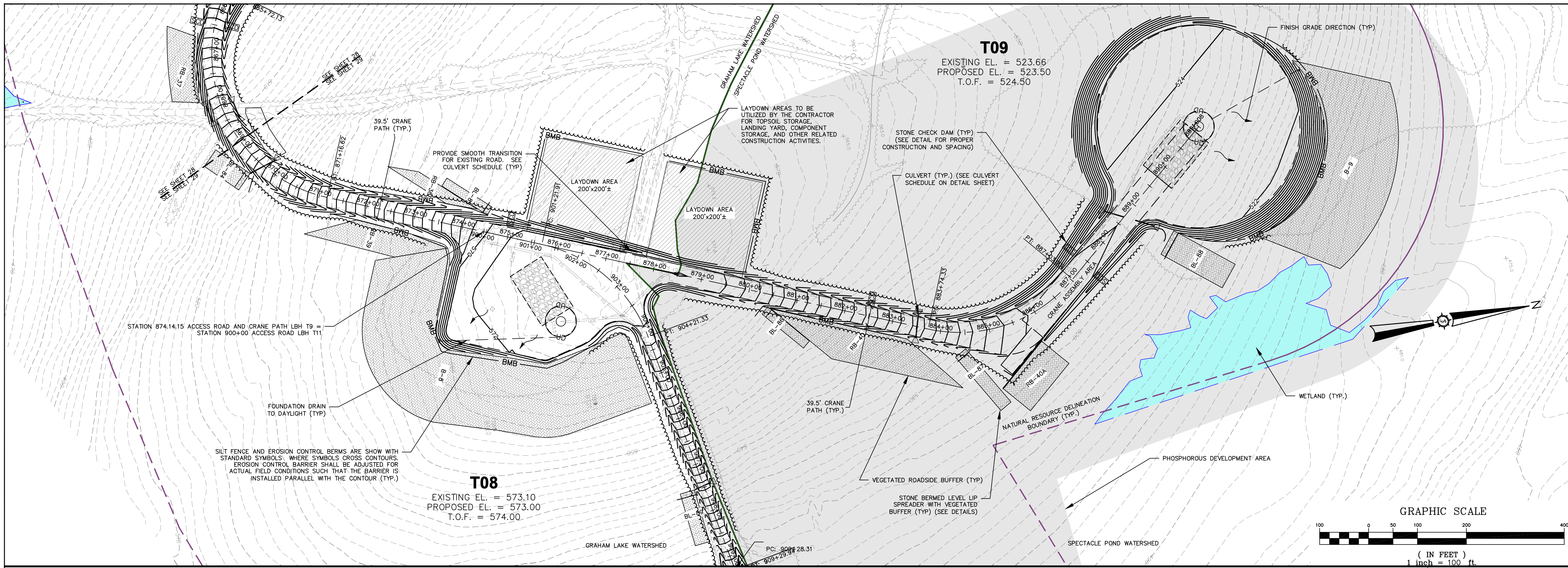
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

Project No.	84176E
Phase	PERMIT
Sheet No.	28
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC
Project Location	129 MIDDLE STREET PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Scale	H: 1" = 100' V: 1" = 50'
Drawn By	JAO/NT
Checked By	JAO
Designed By	BCH
Date	10/29/2018
Scale	H: 1" = 100' V: 1" = 50'
Approved	BCH
Checked	JAO

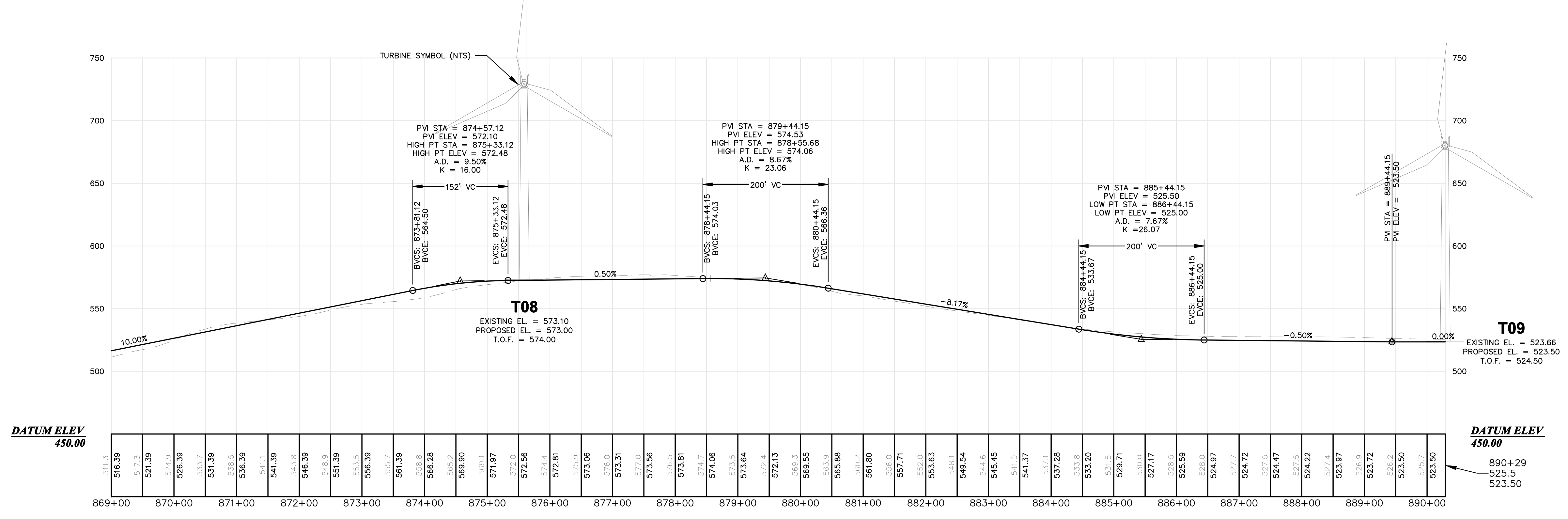
SEWALL  
AN INTEGRATED TEAM OF  
GEOSPATIAL ENGINEERING,  
SURVEYING AND NATURAL  
RESOURCE CONSULTANTS  
JAMES W. SEWALL COMPANY Since 1880  
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STATE OF MAINE  
Professional Seal  
No. 10749  
Professional Seal  
No. 10749

NOT FOR CONSTRUCTION



**ACCESS ROAD AND CRANE PATH LBH T9**  
 869+00.00 - 890+29.10



HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'

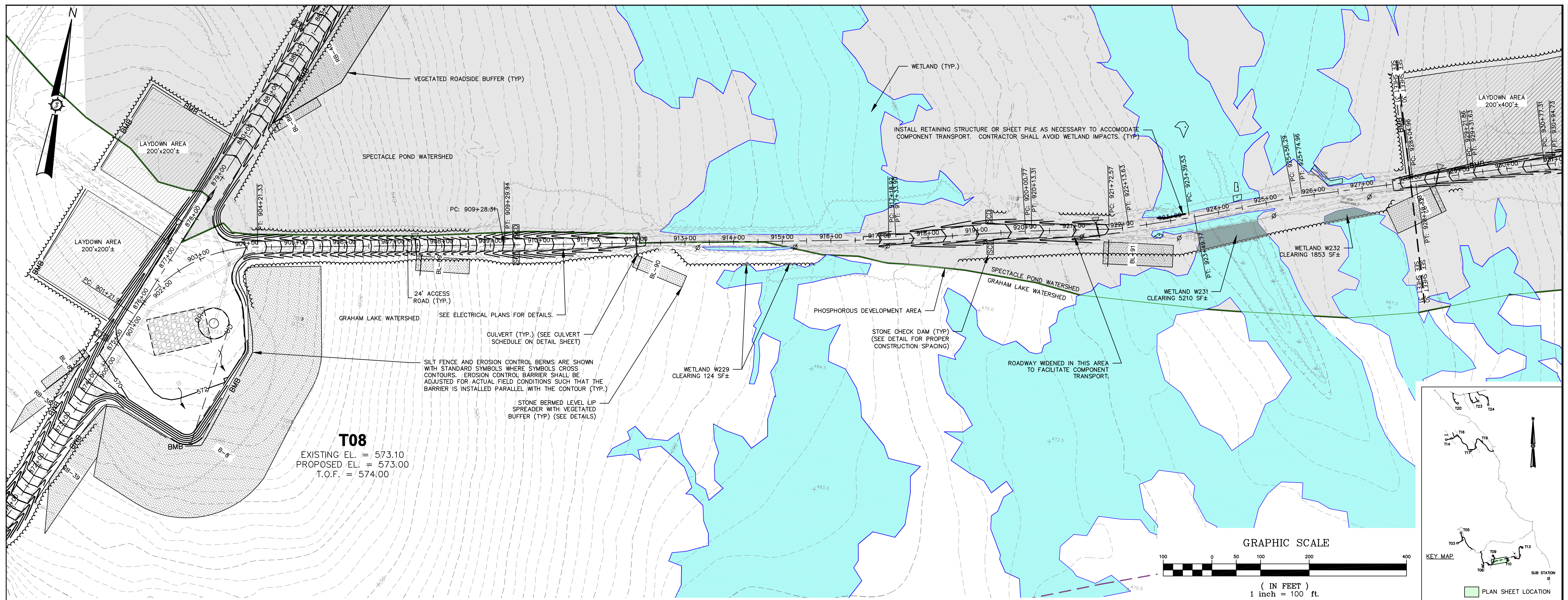
NOT FOR CONSTRUCTION

Project No.	84176E
Phase	PERMIT
Sheet No.	29
Project Location	129 MIDDLE STREET PORTLAND, ME
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC
Project Location	EASTBROOK, OSBORN, T16MD, MAINE
Project Name	LITTLE BULL HILL ACCESS ROAD AND CRANE PATH
Scale	H: 1" = 100' V: 1" = 50'
Drawn By	JAO/NT
Checked By	JAO
Designation	BOH
Date	10/29/2018
Drawn By	JAO/NT
Checked By	JAO
Designation	BOH
Date	10/29/2018

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 SURVEYING AND NATURAL  
 RESOURCE CONSULTANTS

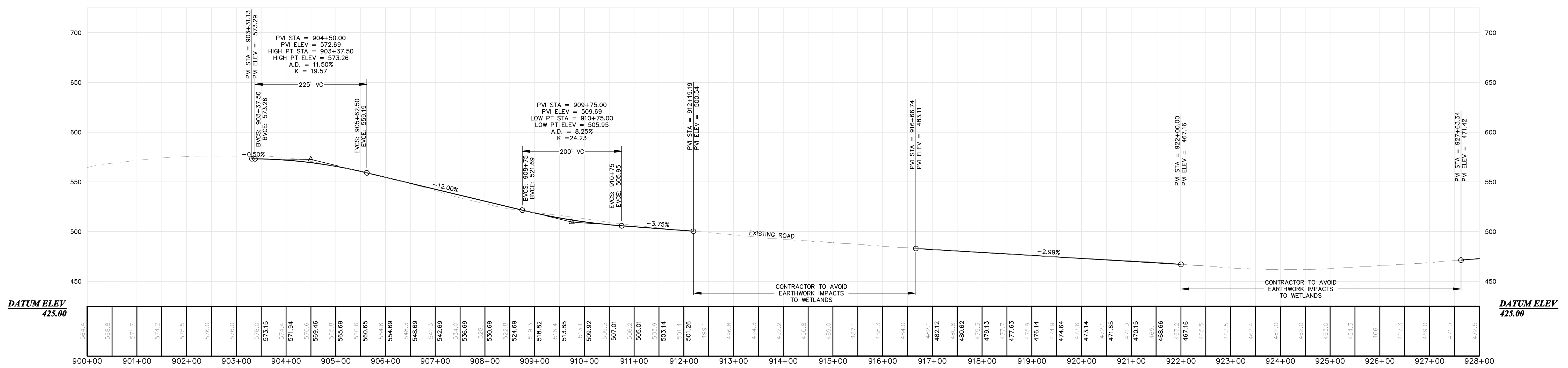
**SEWALL**  
 JAMES W. SEWALL COMPANY (Since 1880)  
 800.648.4202  
 SEWALL.COM

Professional Seal: State of Maine, Professional Engineer, No. 10747, James W. Sewall



**ACCESS ROAD LBH T11**  
 900+00.00 - 928+00.00

PROFILE INFORMATION SHOWN FROM APPROXIMATE STATION 904+00 TO 912+00 AND 917+00 TO 922+00 IS FOR REFERENCE PURPOSES ONLY. RECONSTRUCTION OF EXISTING LOGGING ROAD IN THIS AREA SHALL BE LIMITED TO WIDENING, DITCHING, AND REGRADING ONLY AS NECESSARY TO PROVIDE A 24' WIDE ACCESS ROAD (SEE CROSS SECTIONS) CAPABLE OF SUPPORTING ALL CONSTRUCTION AND OPERATIONAL VEHICLES. VERTICAL CURVE TRANSITIONS (IF ANY) SHALL BE FIELD DETERMINED.



HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'

Drawn By: JAO/NT	Checked: JAO
Designed By: BCH	Approved: BCH
Date: 10/29/2018	Scale: H: 1"=100' V: 1"=50'
Project Location: 129 MIDDLE STREET, PORTLAND, ME	Drawing Description: LITTLE BULL HILL ACCESS ROAD T11
Client: WEAVER WIND PROJECT, WEAVER WIND, LLC	Author: JAO

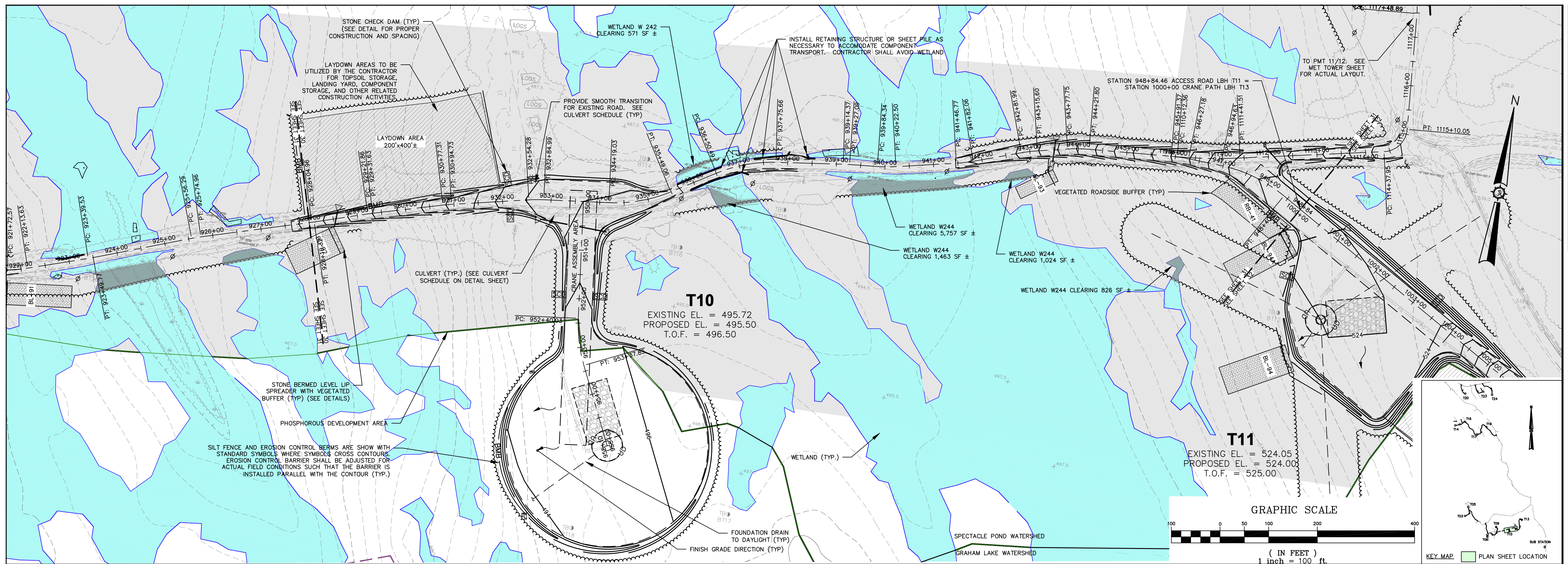
Project No: 84176E

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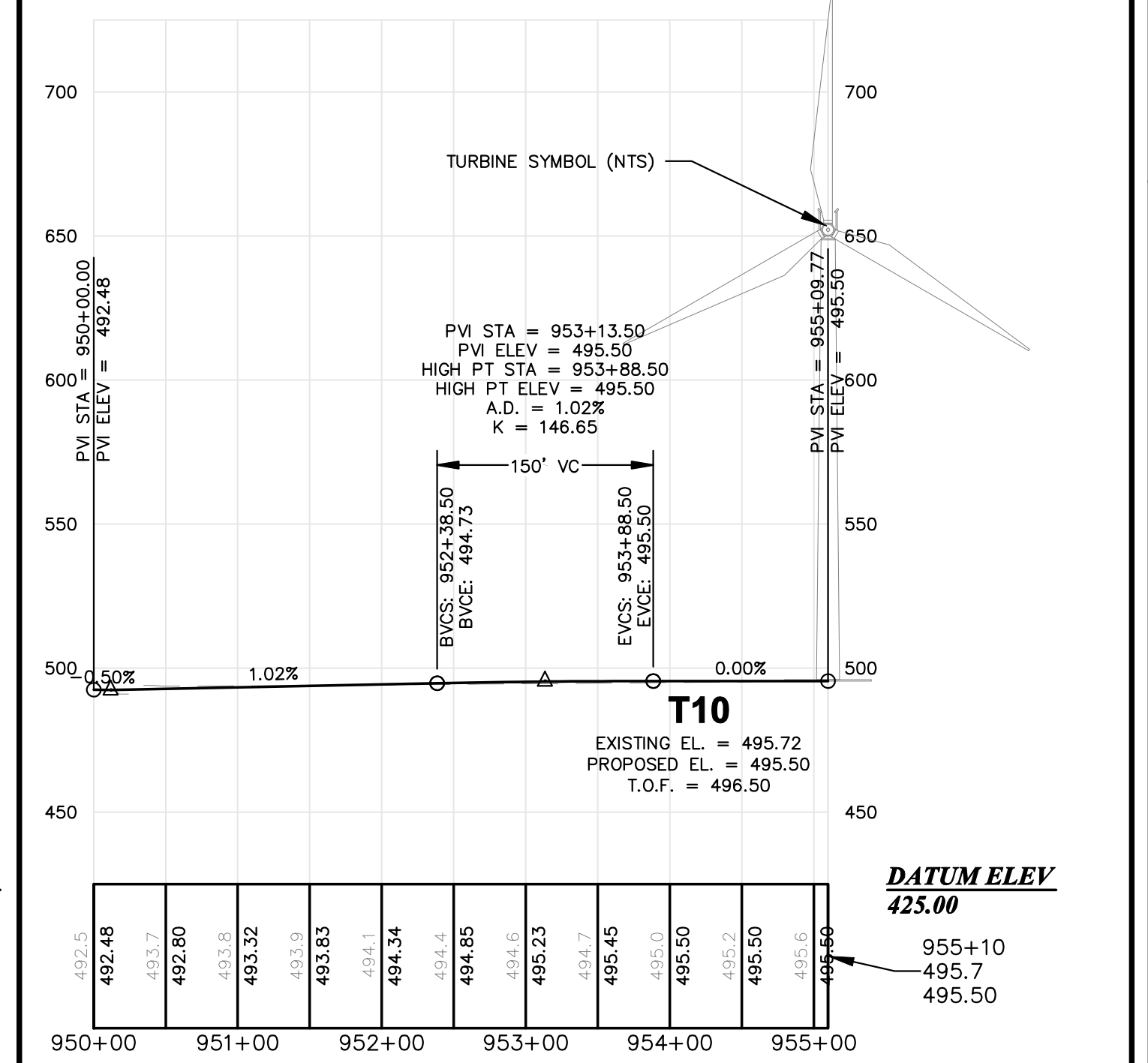
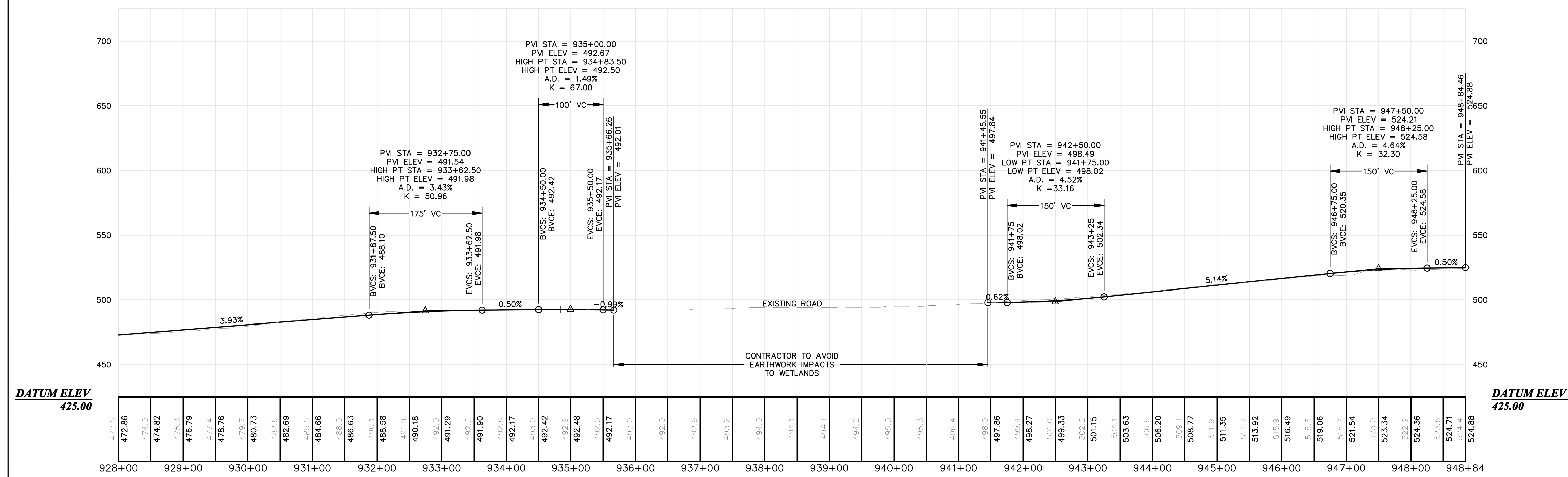
Professional Seal: JAMES W. SEWALL, PROFESSIONAL ENGINEER, LICENSE NO. 10749

NOT FOR CONSTRUCTION



**ACCESS ROAD LBH T11**  
928+00.00 - 948+84.46

**ACCESS ROAD LBH T10**  
950+00.00 - 955+09.77



HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
129 MIDDLE STREET  
PORTLAND, ME  
EASTBROOK, OSBORN, T16MD, MAINE  
LITTLE BULL HILL  
ACCESS ROAD T11, CRANE PATH T10

Drawn By: JAO/NT  
Checked: JAO

Designed By: BCH  
Date: 10/29/2018  
Scale: H: 1"=100' V: 1"=50'

Project No: 84176E

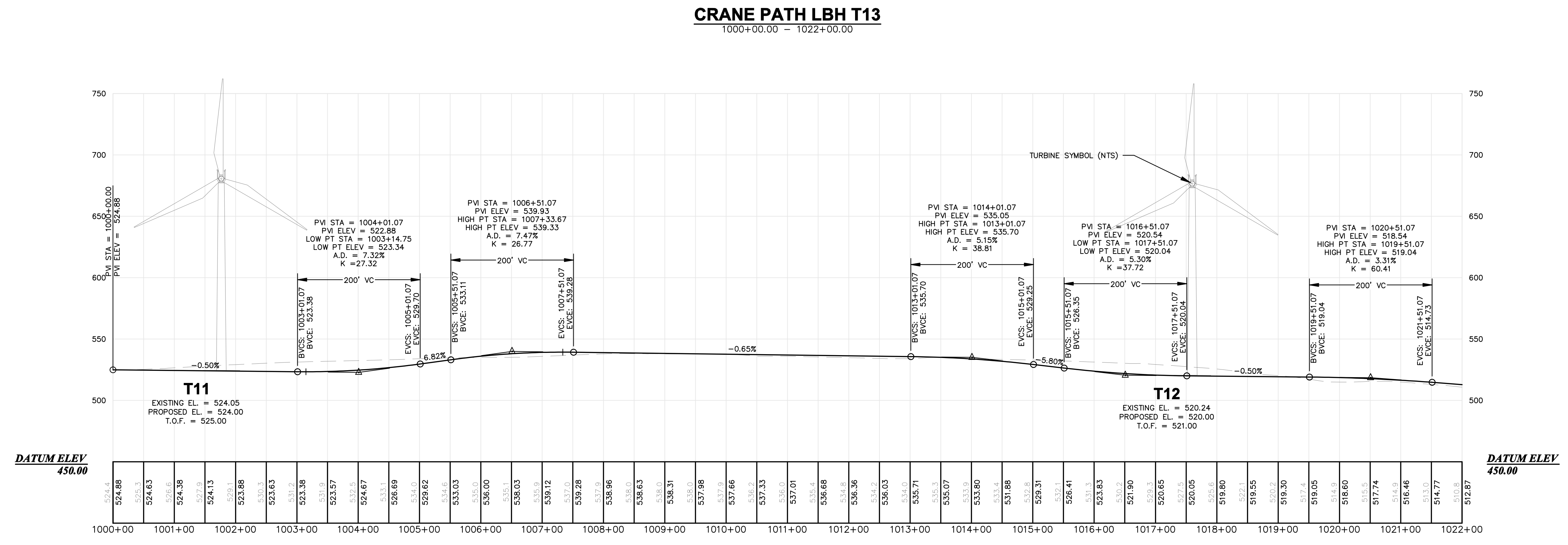
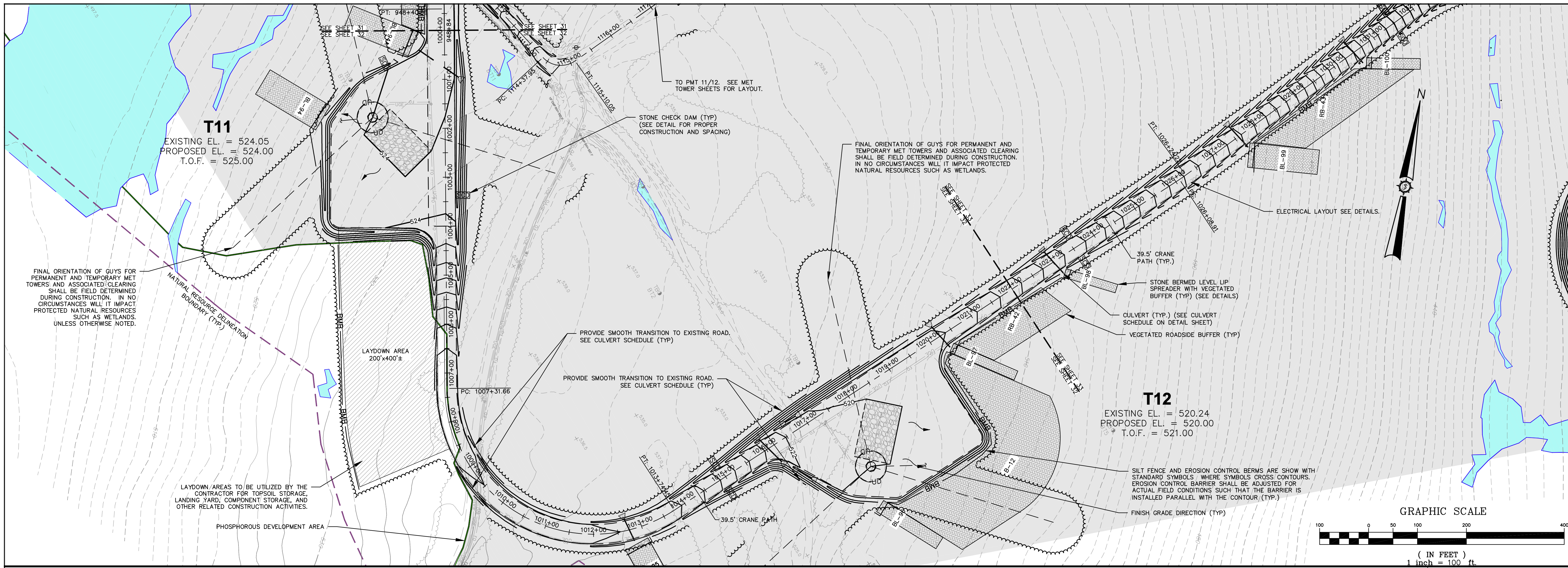
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Sheet No. **31**

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**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
129 MIDDLE STREET  
PORTLAND, ME  
Project Location  
EASTBROOK, OSBORN, T16MD, MAINE  
Drawing Description  
LITTLE BULL HILL  
CRANE PATH T13

Designed By: JAO/NT  
Date: 10/29/2018  
Scale: H: 1"=100' V: 1"=50'

Drawn By: JAO/NT  
Checked: JAO

Approved: BCH  
Checked: JAO

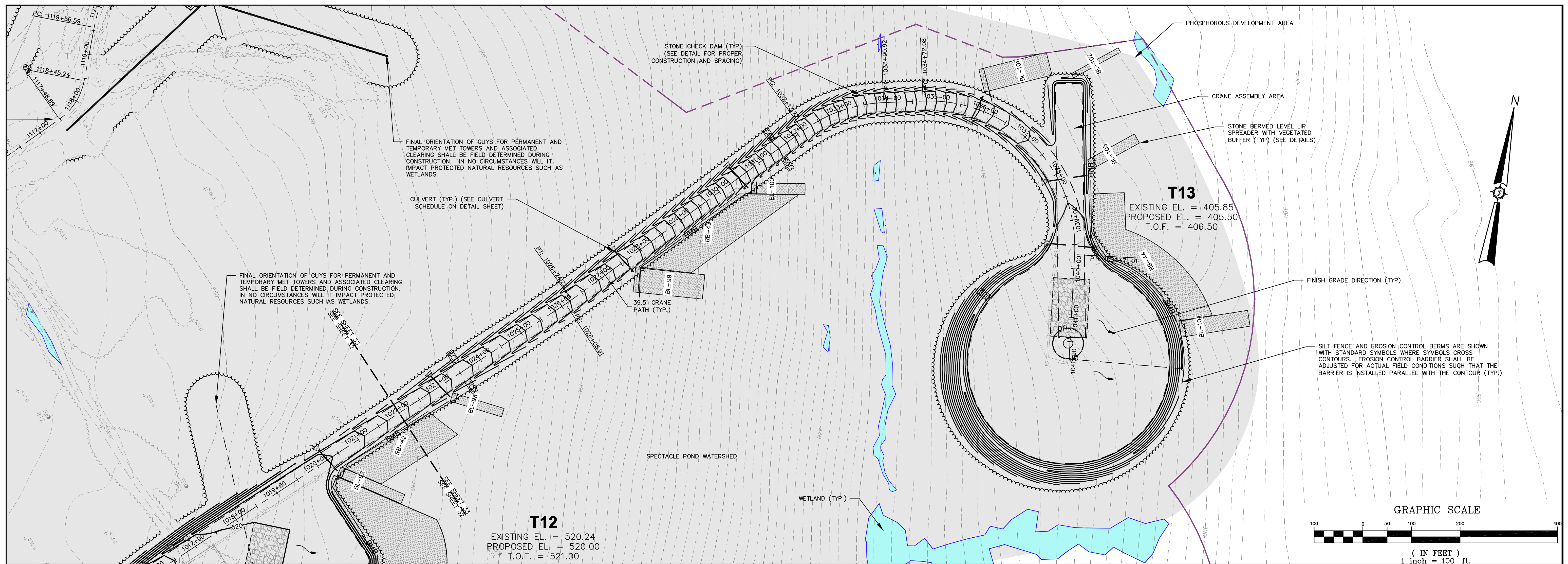
84176E

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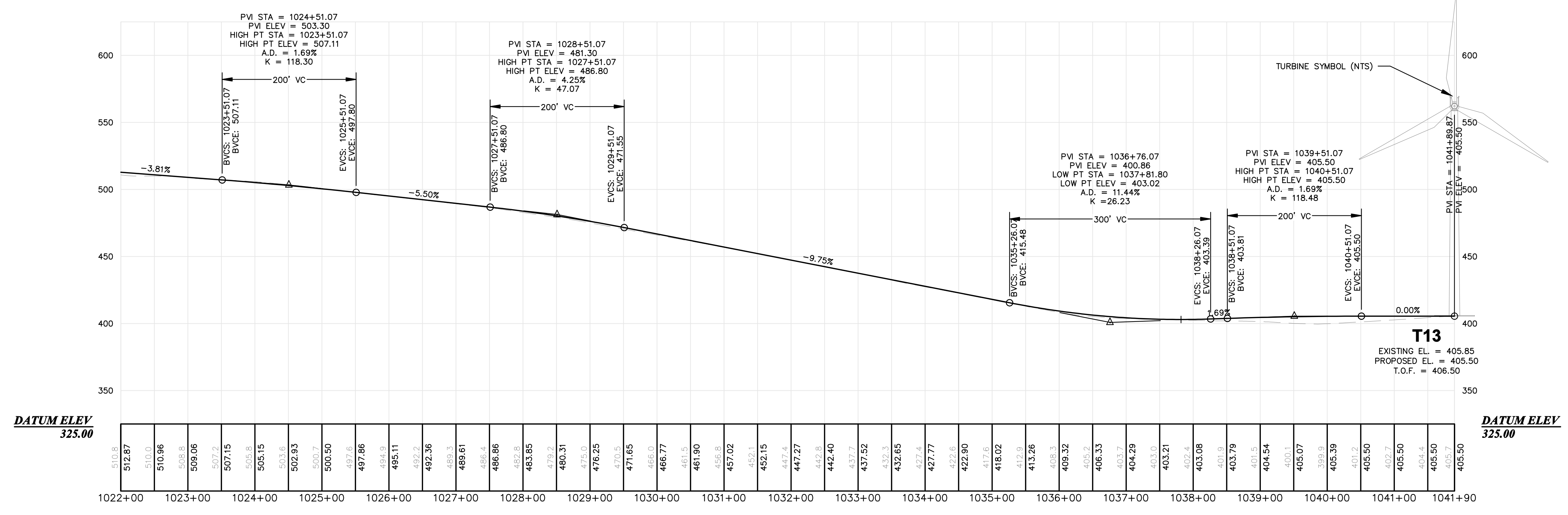
PERMIT

Sheet No. **32**

NOT FOR CONSTRUCTION



**CRANE PATH LBH T13**  
1022+00.00 - 1041+89.87



HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
PORTLAND, ME  
129 MIDDLE STREET  
EASTBROOK, OSBORN, T16MD, MAINE  
LITTLE BULL HILL  
CRANE PATH T13

Drawn By: JAO/NT  
Checked: JAO  
Date: 10/29/2018  
Scale: H: 1" = 100' V: 1" = 50'  
Approved: BOH

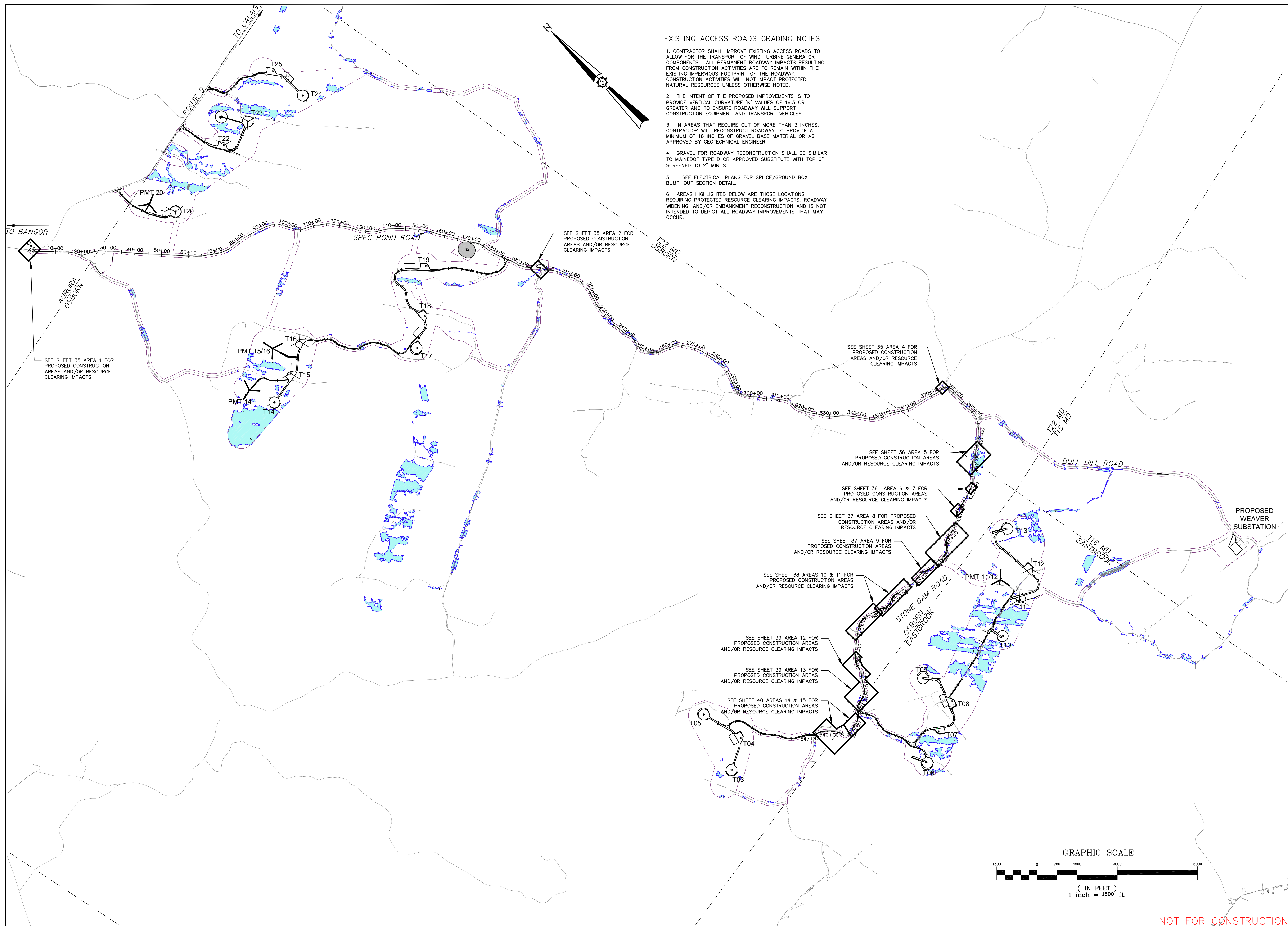
**84176E**

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PROJECT NO. 84176E  
Phase **PERMIT**  
Sheet No. **33**

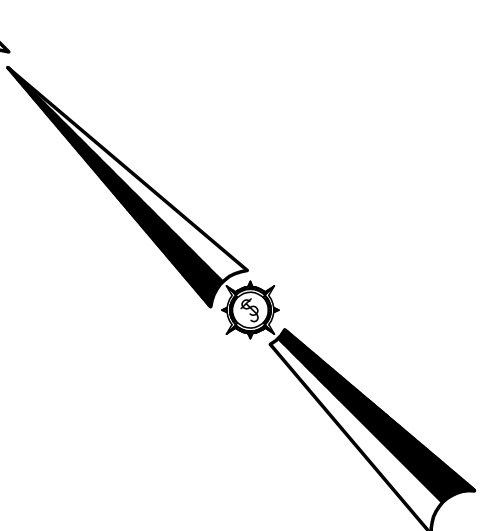
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**EXISTING ACCESS ROADS GRADING NOTES**

1. CONTRACTOR SHALL IMPROVE EXISTING ACCESS ROADS TO ALLOW FOR THE TRANSPORT OF WIND TURBINE GENERATOR COMPONENTS. ALL PERMANENT ROADWAY IMPACTS RESULTING FROM CONSTRUCTION ACTIVITIES ARE TO REMAIN WITHIN THE EXISTING IMPERVIOUS FOOTPRINT OF THE ROADWAY. CONSTRUCTION ACTIVITIES WILL NOT IMPACT PROTECTED NATURAL RESOURCES UNLESS OTHERWISE NOTED.
2. THE INTENT OF THE PROPOSED IMPROVEMENTS IS TO PROVIDE VERTICAL CURVATURE "K" VALUES OF 16.5 OR GREATER AND TO ENSURE ROADWAY WILL SUPPORT CONSTRUCTION EQUIPMENT AND TRANSPORT VEHICLES.
3. IN AREAS THAT REQUIRE CUT OF MORE THAN 3 INCHES, CONTRACTOR WILL RECONSTRUCT ROADWAY TO PROVIDE A MINIMUM OF 18 INCHES OF GRAVEL BASE MATERIAL OR AS APPROVED BY GEOTECHNICAL ENGINEER.
4. GRAVEL FOR ROADWAY RECONSTRUCTION SHALL BE SIMILAR TO MAINE DOT TYPE D OR APPROVED SUBSTITUTE WITH TOP 6" SCREENED TO 2" MINUS.
5. SEE ELECTRICAL PLANS FOR SPICE/GROUND BOX BUMP-OUT SECTION DETAIL.
6. AREAS HIGHLIGHTED BELOW ARE THOSE LOCATIONS REQUIRING PROTECTED RESOURCE CLEARING IMPACTS, ROADWAY WIDENING, AND/OR EMBANKMENT RECONSTRUCTION AND IS NOT INTENDED TO DEPICT ALL ROADWAY IMPROVEMENTS THAT MAY OCCUR.



SEE SHEET 35 AREA 1 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 35 AREA 2 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 35 AREA 4 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 36 AREA 5 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 36 AREA 6 & 7 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 37 AREA 8 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

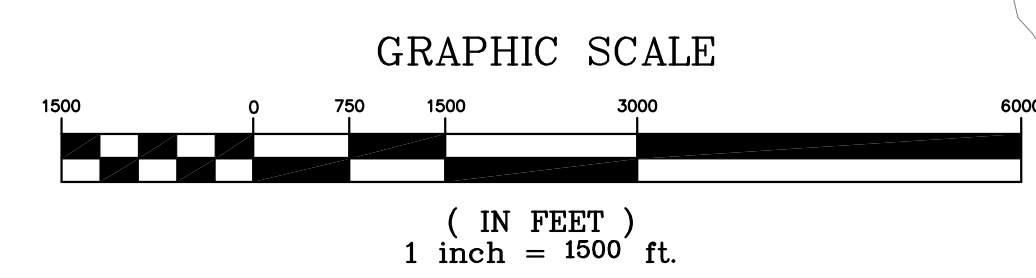
SEE SHEET 37 AREA 9 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 38 AREAS 10 & 11 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 39 AREA 12 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 39 AREA 13 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS

SEE SHEET 40 AREAS 14 & 15 FOR PROPOSED CONSTRUCTION AREAS AND/OR RESOURCE CLEARING IMPACTS



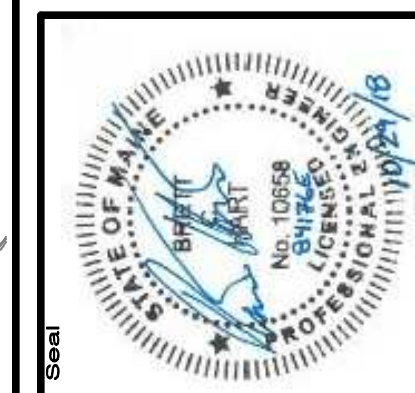
Rev. #	Drawn By	Description	Date

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
 129 MIDDLE STREET  
 PORTLAND, ME  
 EASTBROOK, OSBORN, T16MD, MAINE

Designed By: JAO/MT  
 BCH  
 Date: 10/29/2018  
 Scale: 1" = 1,500'

Approved: BCH  
 Checked: JAO

**PROJECT ACCESS IMPROVEMENTS**

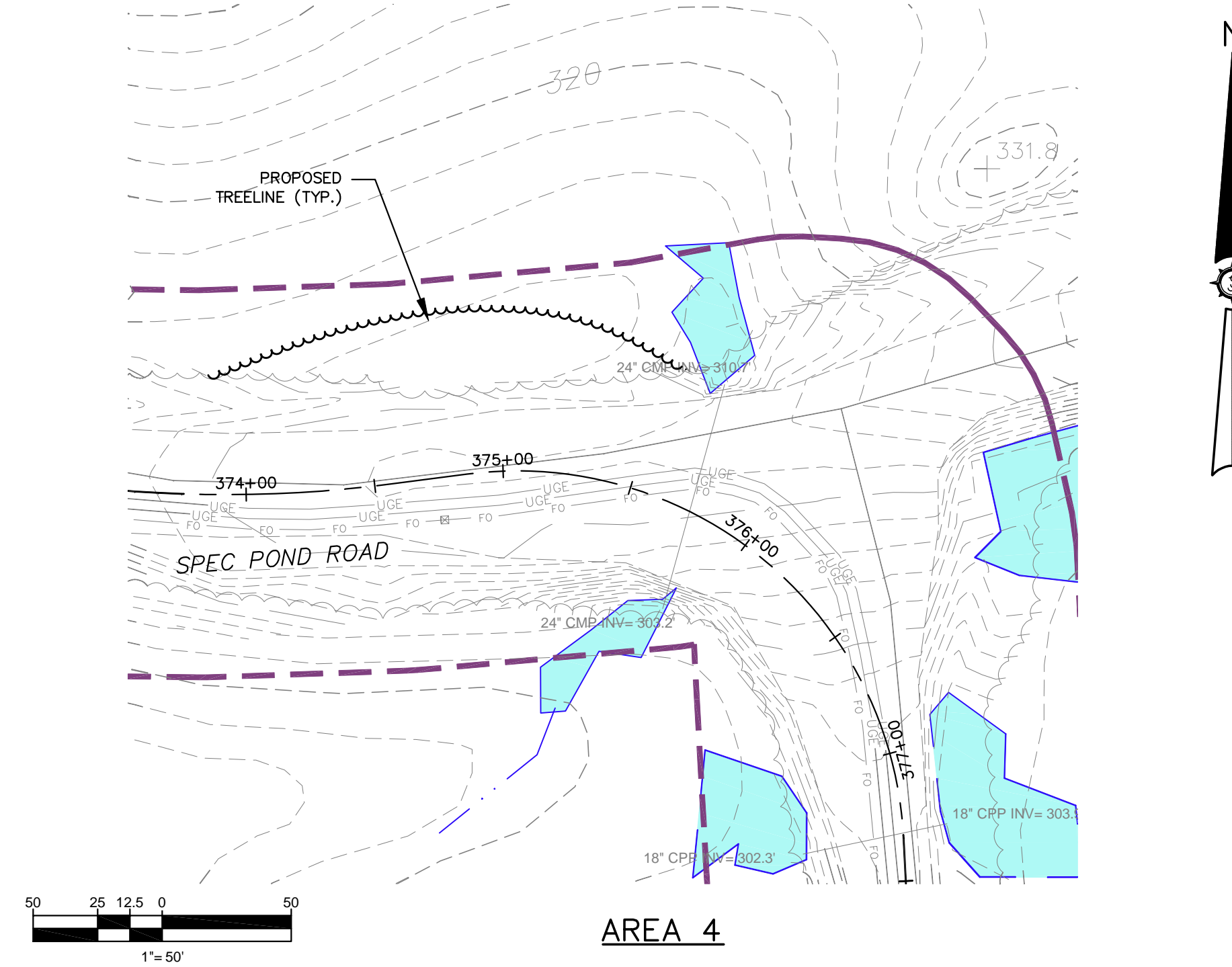
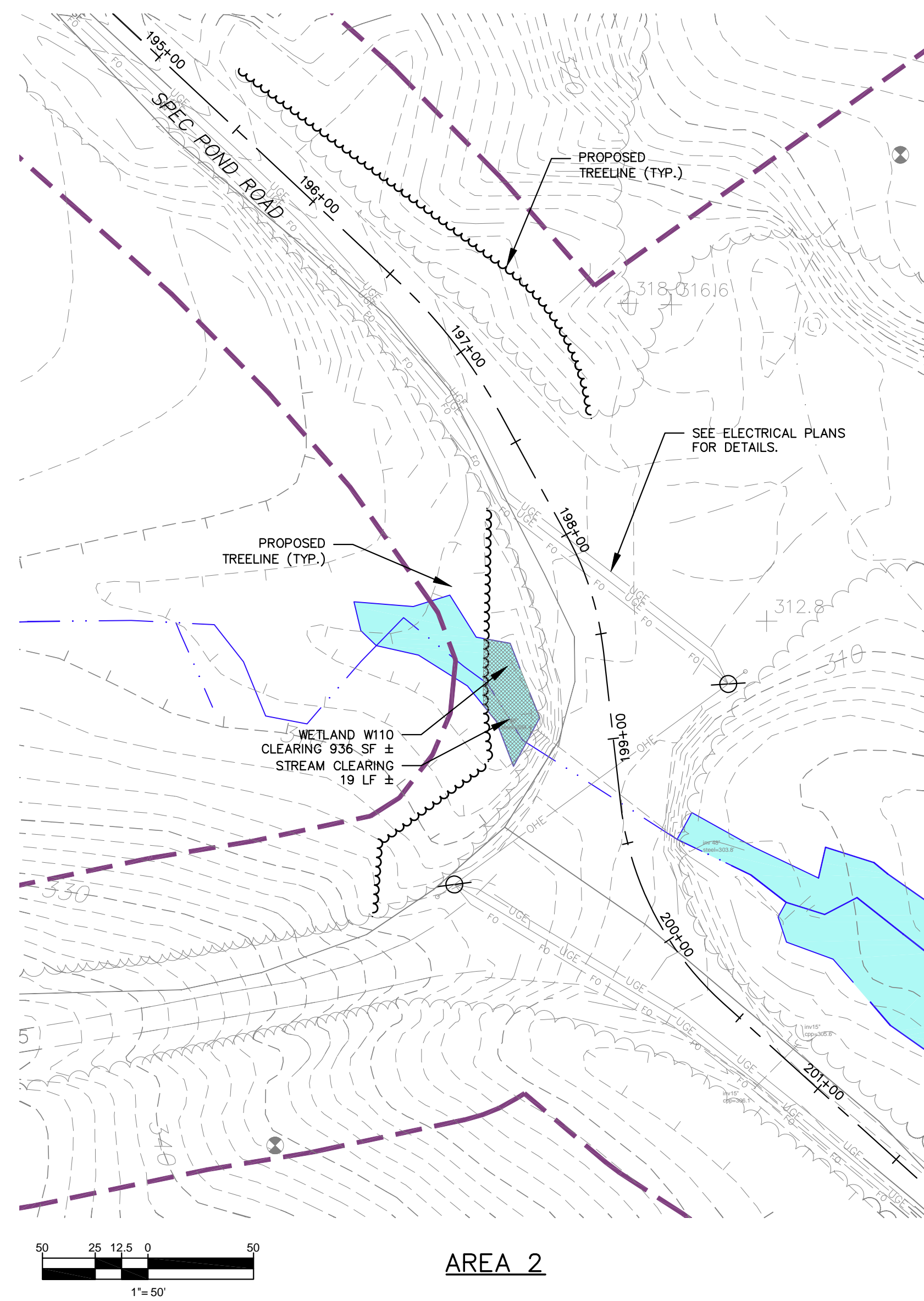
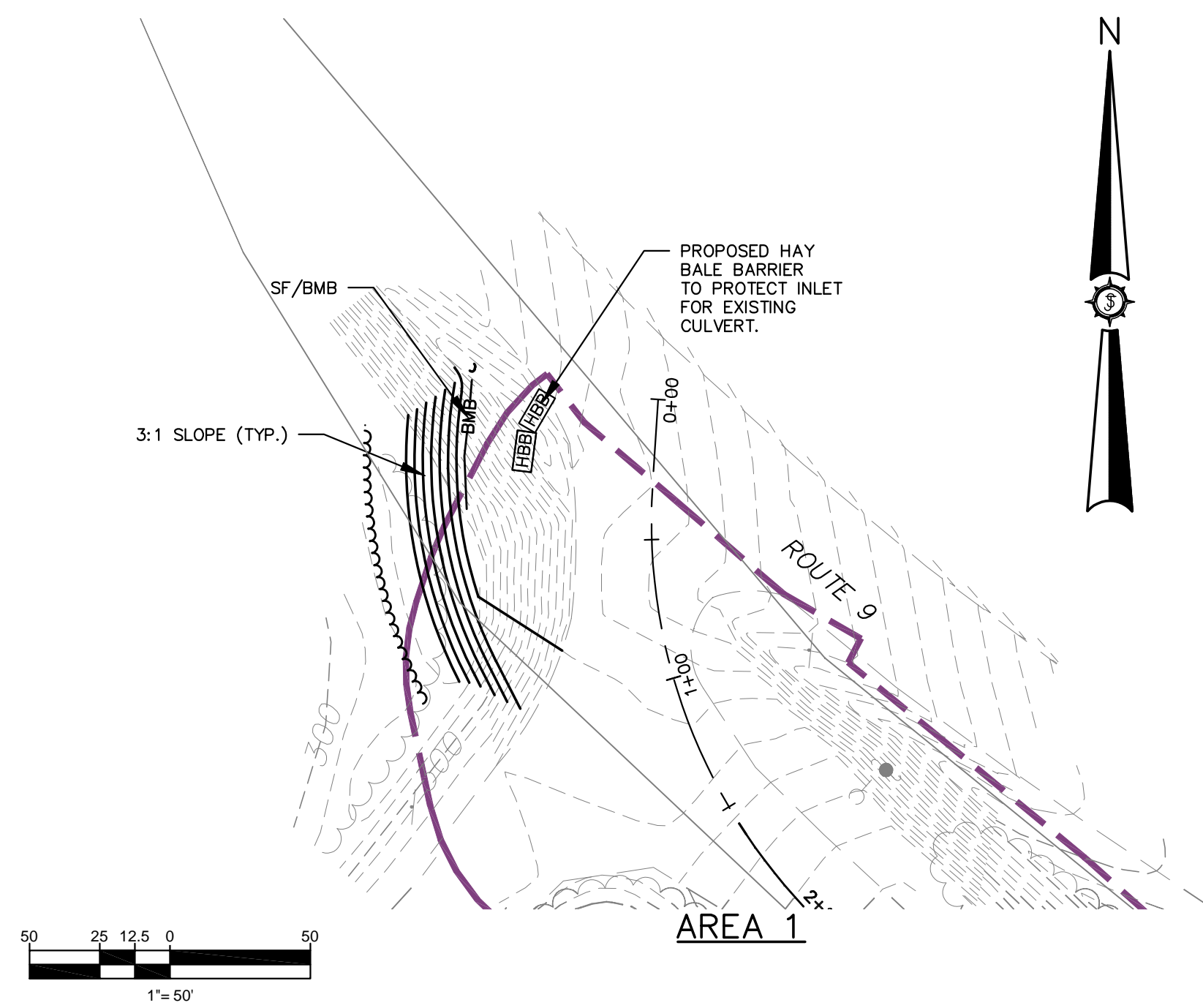


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Project No. **PERMIT**  
 Sheet No. **34**

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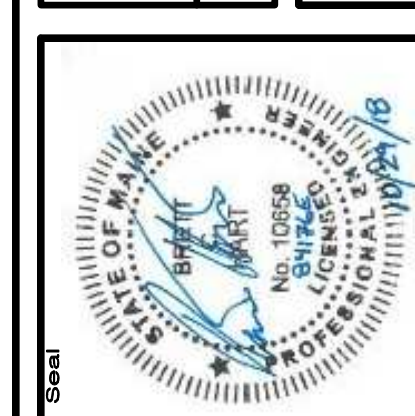


Rev. #	Drawn By	Description	Date

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
 129 MIDDLE STREET  
 PORTLAND, ME  
 EASTBROOK, OSBORN, T16MD, MAINE

Designed By: BCH  
 Date: 10/29/2018  
 Scale: 1" = 50'

Drawn By: JAO/MT  
 Checked: JAO  
 Approved: BCH



**84176E**

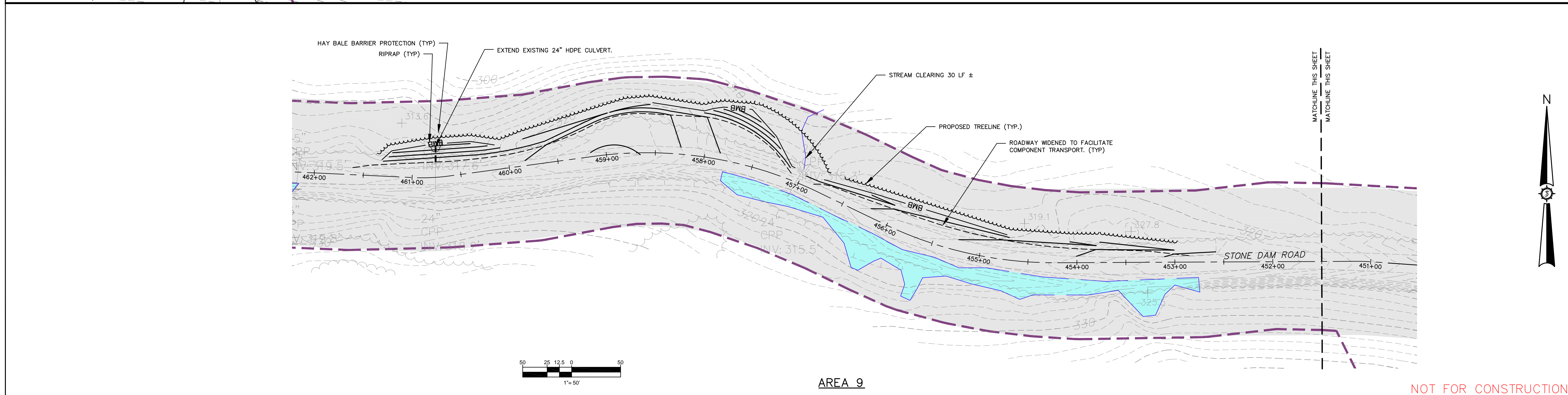
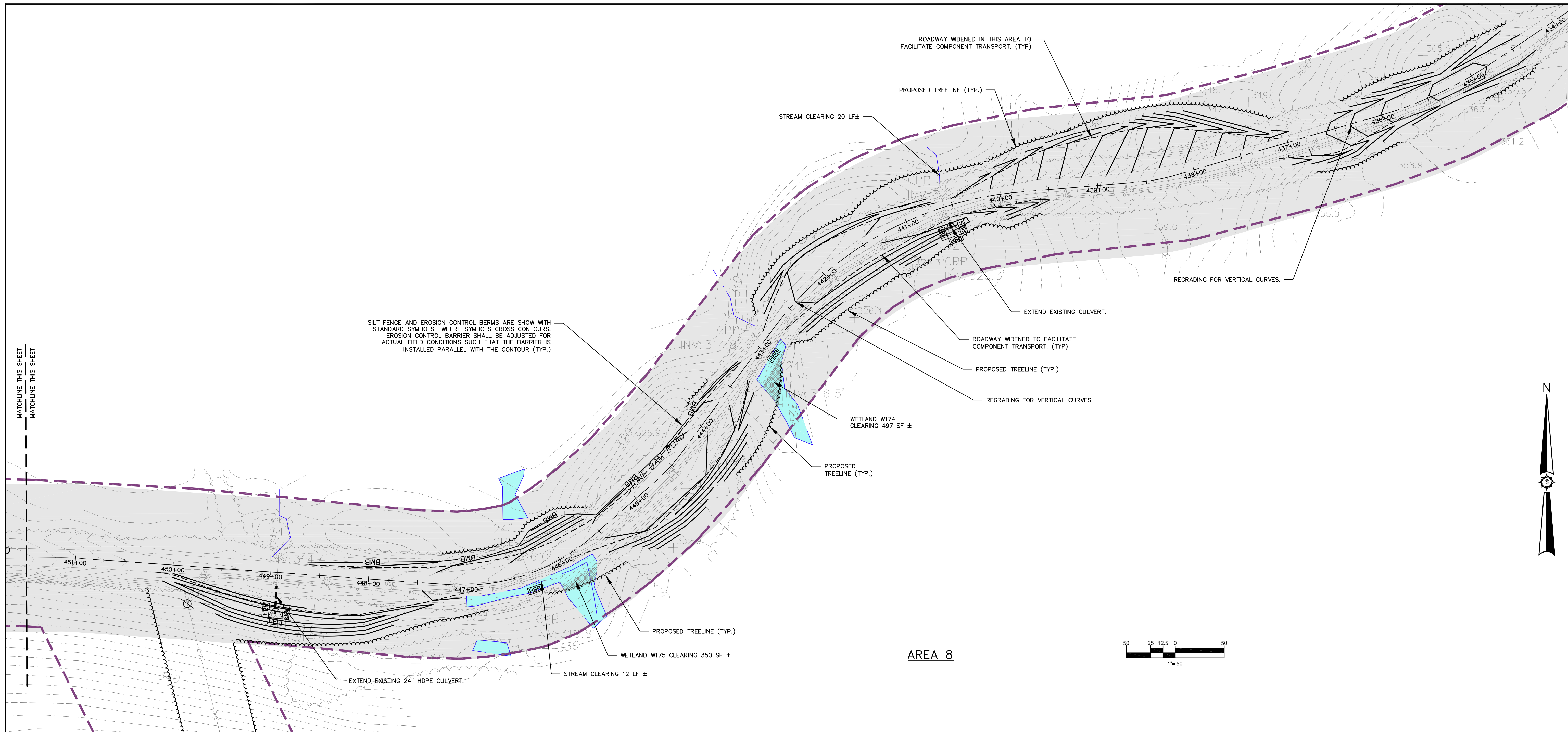
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Phase: **PERMIT**

Sheet No.: **35**

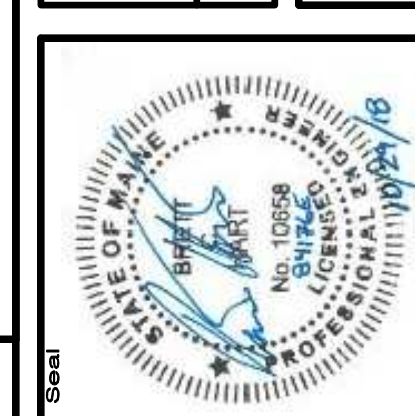
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Rev. #	Drawn By	Description	Date

Designed By	JAC/MT
Drawn By	JAC
Date	10/29/2018
Scale	1" = 50'
Project Location	PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Project Name	WEAVER WIND PROJECT WEAVER WIND, LLC
Drawing Description	PROJECT ACCESS IMPROVEMENTS
Approved	BOH
Checked	JAO



Project No. 84176E

Engineer

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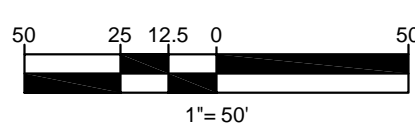
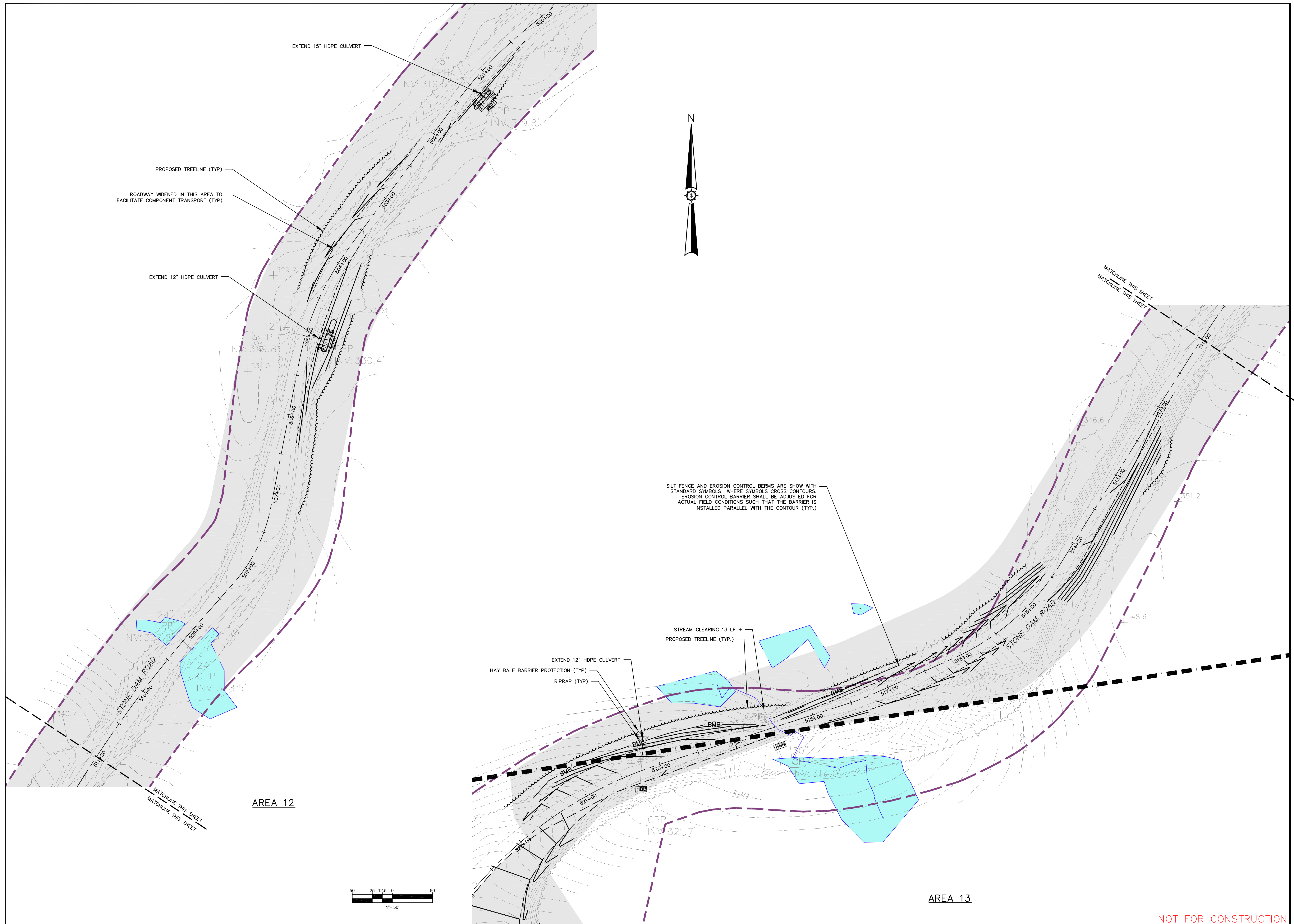
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**PERMIT**

Sheet No.  
**37**

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AREA 12

AREA 13

SILT FENCE AND EROSION CONTROL BERMS ARE SHOWN WITH STANDARD SYMBOLS WHERE SYMBOLS CROSS CONTOURS. EROSION CONTROL BARRIERS SHALL BE ADJUSTED FOR ACTUAL FIELD CONDITIONS SUCH THAT THE BARRIER IS INSTALLED PARALLEL WITH THE CONTOUR (TYP.)

PROPOSED TREELINE (TYP.)  
ROADWAY WIDENED IN THIS AREA TO FACILITATE COMPONENT TRANSPORT (TYP.)

EXTEND 12" HDPE CULVERT

EXTEND 15" HDPE CULVERT

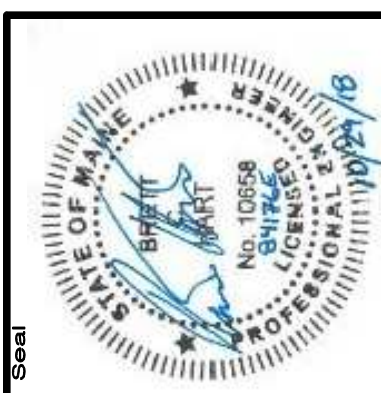
EXTEND 12" HDPE CULVERT  
HAY BALE BARRIER PROTECTION (TYP.)  
RIPRAP (TYP.)

STREAM CLEARING 13 LF ±  
PROPOSED TREELINE (TYP.)

Rev. #	Drawn By	Description

Designed By	JAC/MT
Drawn By	JAC/MT
Date	10/29/2018
Scale	1" = 50'
Checked	JAO
Approved	BCH

**WEAVER WIND PROJECT**  
**WEAVER WIND, LLC**  
 129 MIDDLE STREET  
 PORTLAND, ME  
 EASTBROOK, OSBORN, T16MD, MAINE  
 Drawing Description: PROJECT ACCESS IMPROVEMENTS

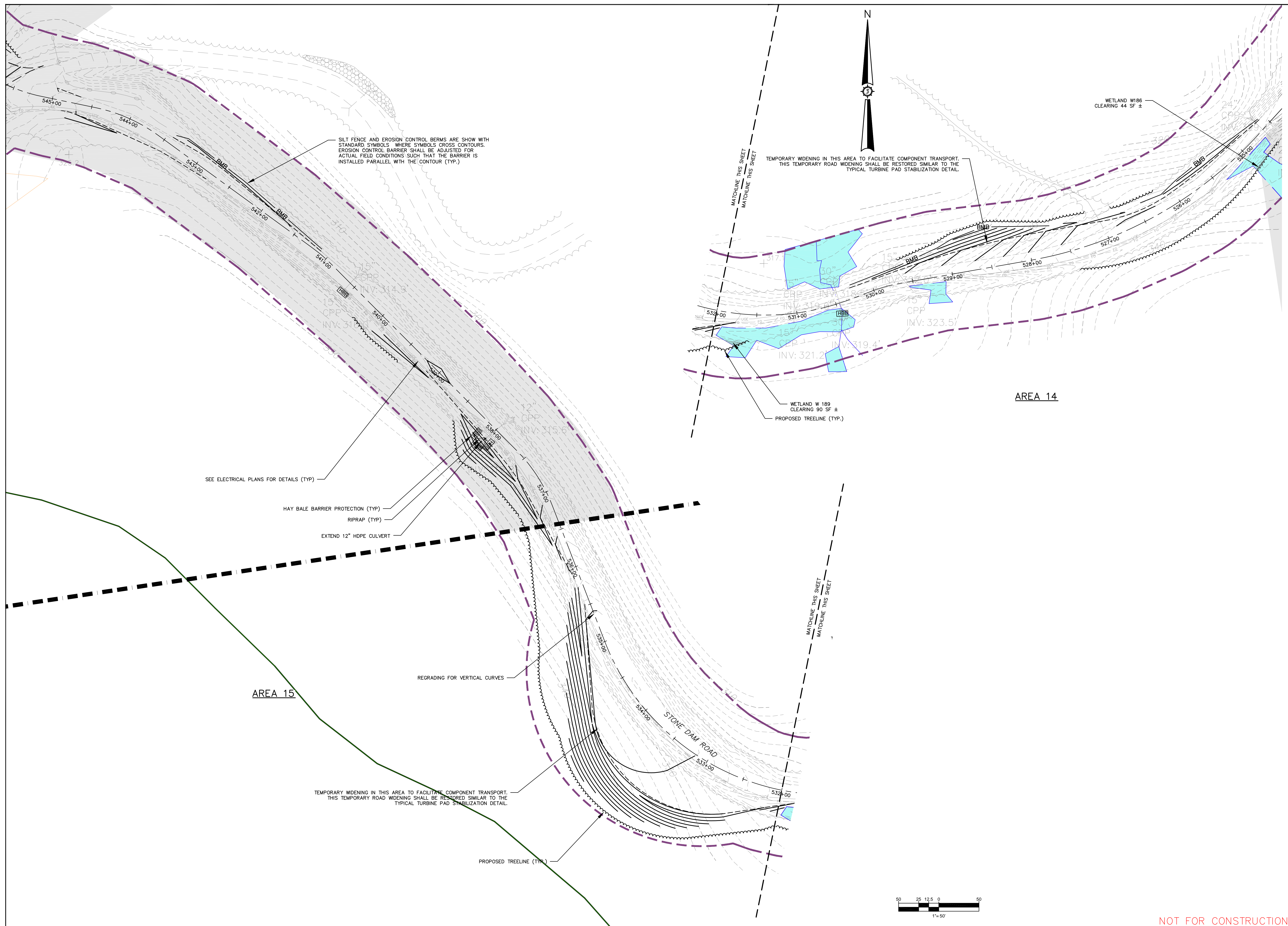


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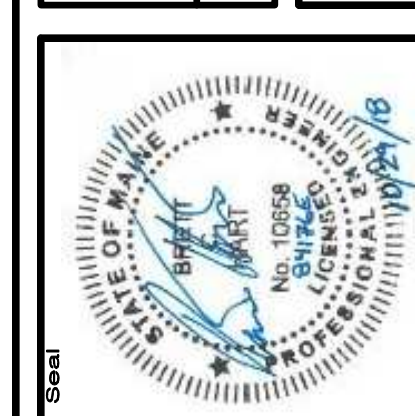
Sheet No.  
**39**

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Rev. #	Drawn By	Description

Project No.	84176E
Engineer	JAMES W. SEWALL COMPANY / Since 1880 SEWALL.COM
Phase	PERMIT
Sheet No.	40
Drawn By	JAO/MT
Checked	JAO
Approved	BCH
Date	10/29/2018
Scale	1" = 50'
Project Location	PORTLAND, ME EASTBROOK, OSBORN, T16MD, MAINE
Drawing Description	PROJECT ACCESS IMPROVEMENTS



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PROJECT ACCESS IMPROVEMENTS

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