

FOR PERMIT

BULL HILL WIND PROJECT

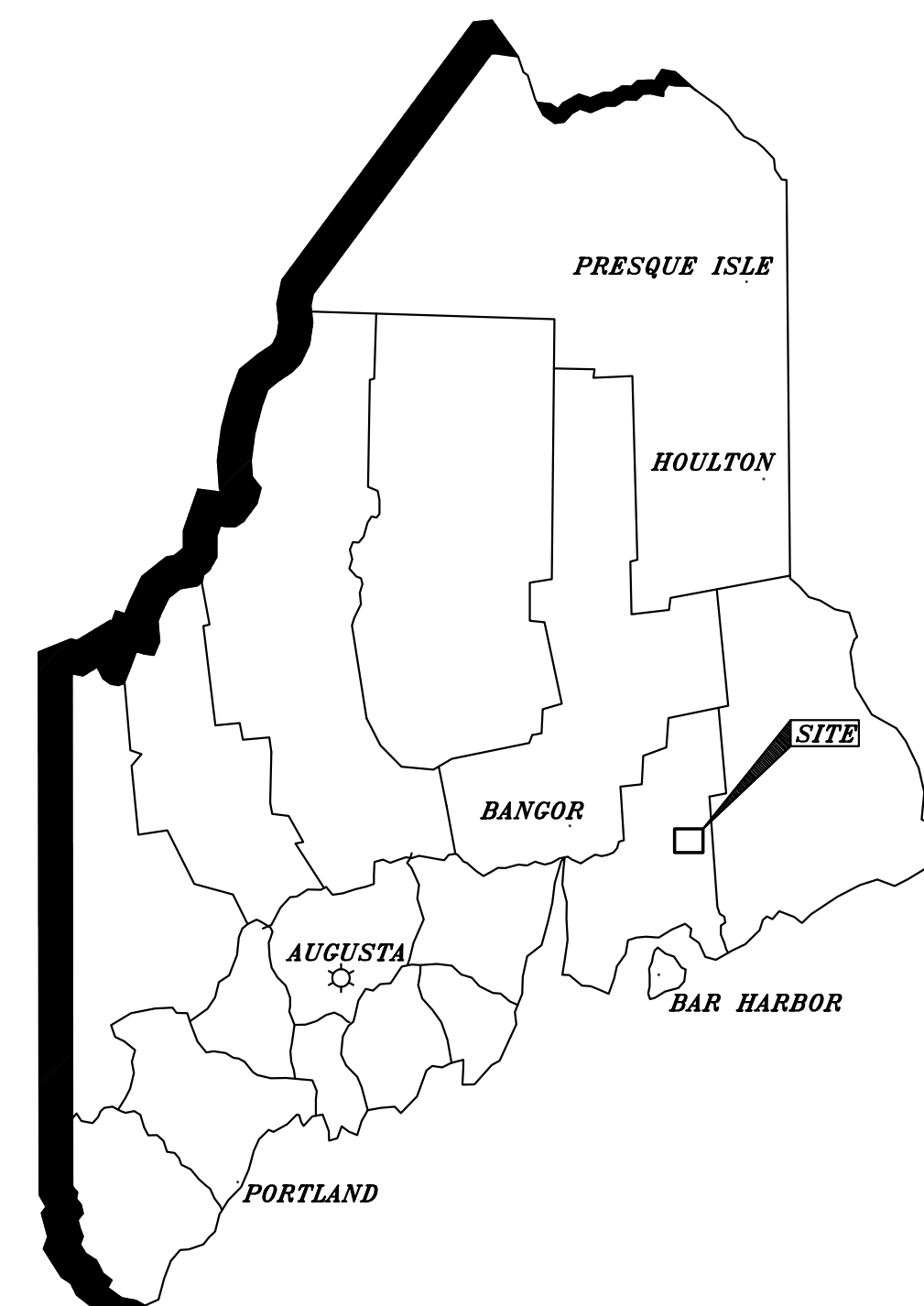
BLUE SKY EAST, LLC

T16 MD, HANCOCK COUNTY, MAINE

74490E

NOVEMBER 24, 2010

REVISED APRIL 15, 2011

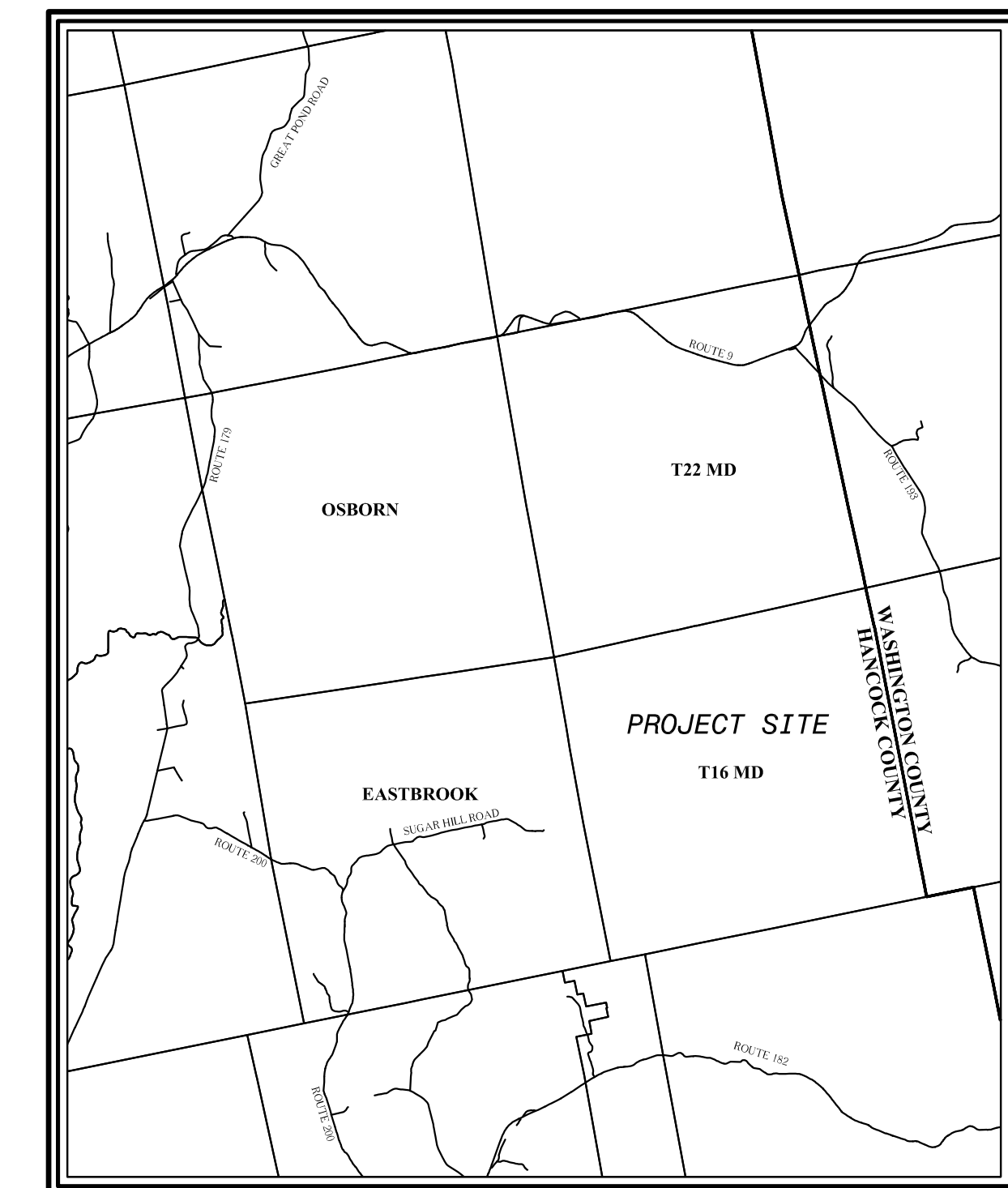


LOCUS MAP

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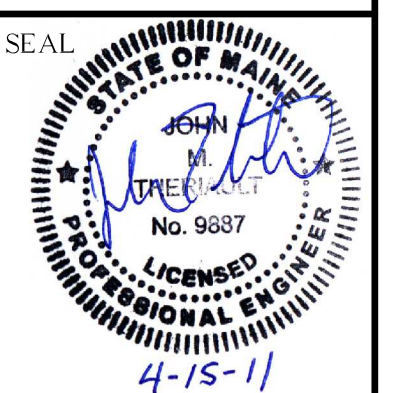
DESIGN TEAM:

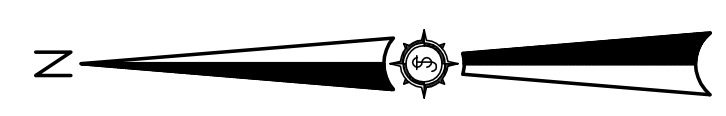


VICINITY MAP



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MET TOWER 4
SHEET C301

MET TOWER 3
SHEET 301
TO SPECTACLE POND

SHEET C201

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MET TOWER 2
SHEET C300

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RESOURCE DELINEATION BOUNDARY

SHEET C202

SUBSTATION
SHEET C2

SHEET C105

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SHEET C103

SHEET C102

SHEET C100

MET TOWER 1
SHEET 300

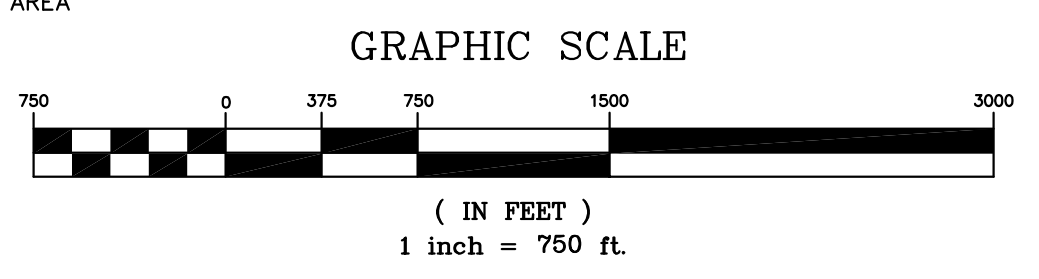
PROPOSED	LINE LEGEND	EXISTING
---	PROPERTY LINE	---
---	CENTERLINE	---
---	STREAM	---
---	EDGE OF PAVEMENT	---
---	EDGE OF GRAVEL	---
---	BUILDING	---
---	CONTOUR	---
---	SPOT GRADE	---
---	X 126.3	---
---	CHAIN LINK FENCE	---
---	GUARDRAIL	---
---	EDGE OF WETLANDS	---
---	TREELINE	---
---	SIGN	---
---	UTILITY POLE	---
---	OHE OVERHEAD ELECTRIC	---
---	UGE UNDERGROUND ELECTRIC	---
---	SD STORM DRAIN	---
---	SOILS LINE	---
---	RESOURCE DELINEATION BOUNDARY	---

HATCH LEGEND	
[Cross-hatch pattern]	WETLAND IMPACT HATCH
[Diagonal hatch pattern]	EROSION CONTROL MESH
[Circular hatch pattern]	ROCK SANDWICH
[Light blue fill]	WETLAND
[Circular hatch pattern]	RIP RAP
[Diagonal hatch pattern]	VERNAL POOL
[Grid hatch pattern]	SIGNIFICANT VERNAL POOL
[Dotted hatch pattern]	LAYDOWN AREA
[Diagonal hatch pattern]	TURNAROUND AREA

SITE PLAN NOTES:

PLAN REFERENCES:
 - TOPOGRAPHY FOR THIS PROJECT WAS DEVELOPED FROM AERIAL MAPPING PROVIDED BY AERIAL SURVEY & PHOTO OF NORRIDGEWOOD, MAINE WITH VERTICAL DATUM N.A.V.D. 1988 AND HORIZONTAL DATUM OF UTM ZONE 19, N.A.D. 83 (FEET). GROUND CONTROL WAS COMPLETED BY PLUSGA & DAY OF BANGOR, MAINE.

- NATURAL RESOURCE MAPPING WAS PROVIDED BY STANTEC.
 - ELECTRICAL INFRASTRUCTURE INFORMATION PROVIDED BY RLC ENGINEERING.
 - SEWALL ACCEPTS NO RESPONSIBILITY AS TO THE ACCURACY OF THE AFOREMENTIONED INFORMATION.



Rev.	Drawn By	Description	Date
1	MT	REVISED PER LURC COMMENTS DATED 07/18/11	1/25/11
2	JLD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

Designed By	Drawn By
JMT	JLD

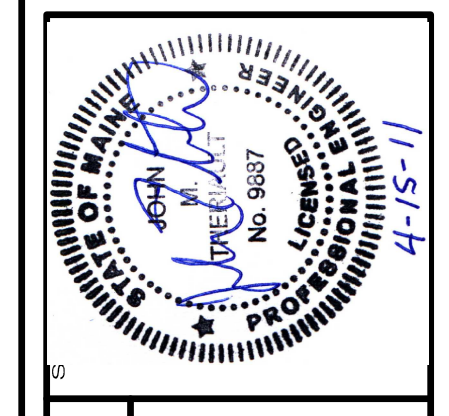
Date	Scale
11/24/10	1"=750'

Project Location	Project No.
T16MD	8887

Checked	By
	BCH

BULL HILL WIND PROJECT

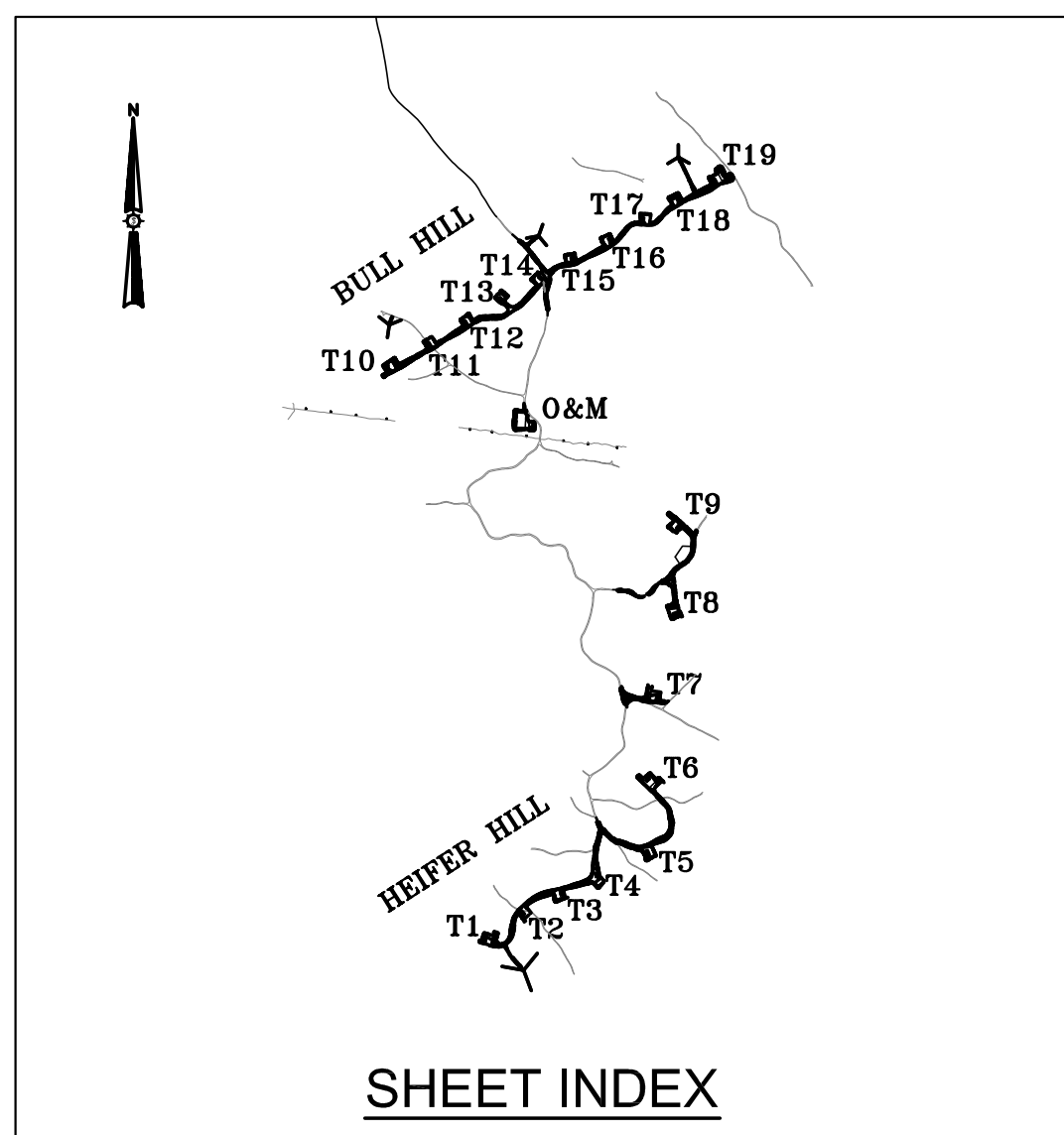
SHEET INDEX



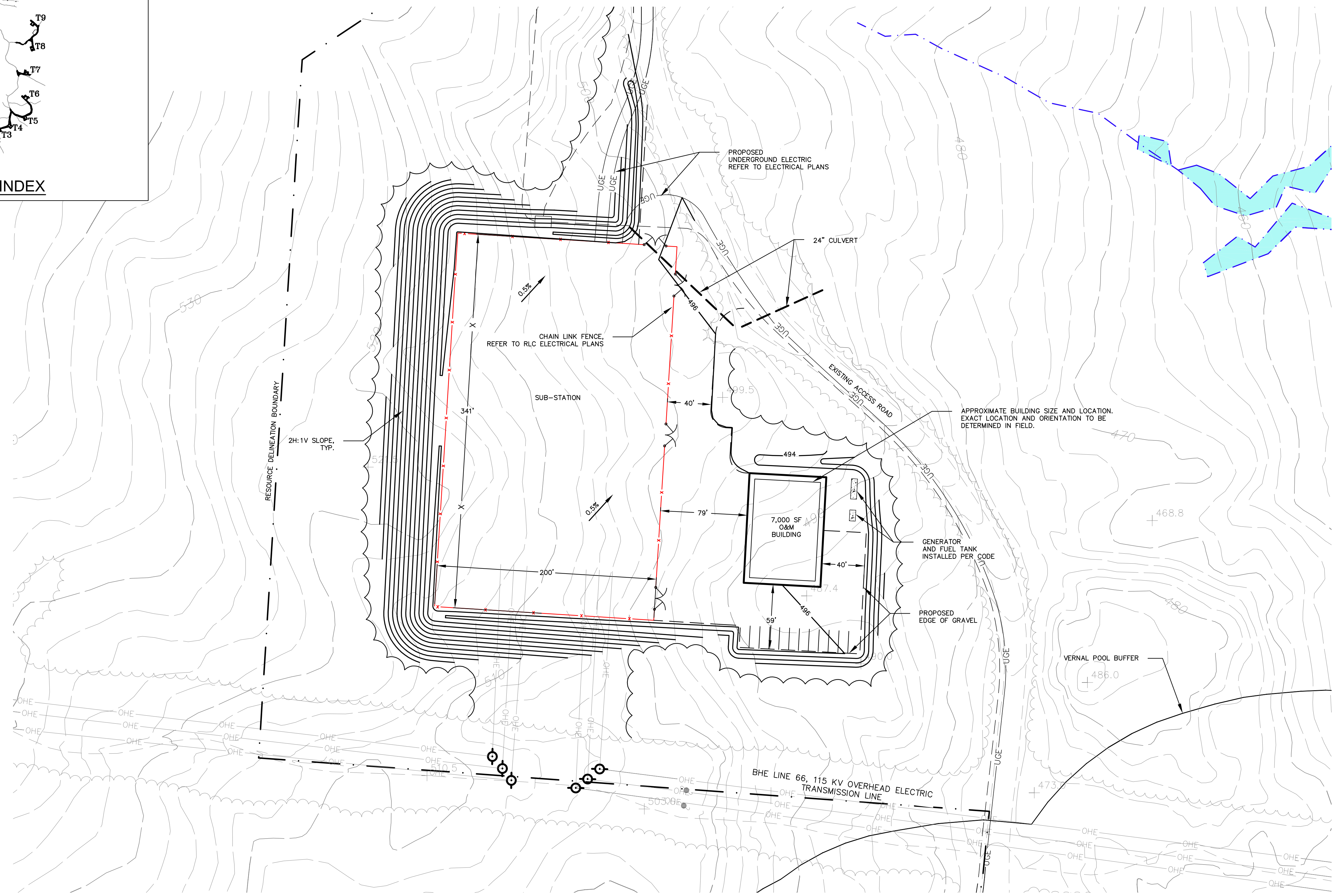
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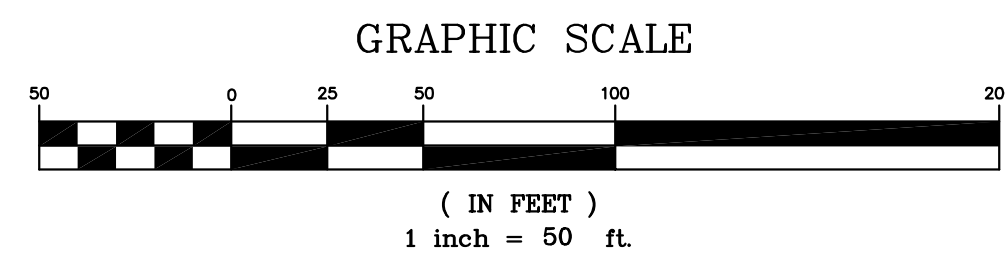


SHEET INDEX



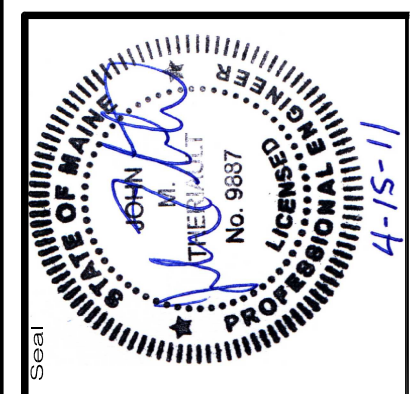
SUB STATION AND O&M BUILDING

NOTE
 1. CONTRACTOR SHALL OVER BLAST LEDGE WITHIN SUBSTATION FOOTPRINT TO PROMOTE GROUNDWATER TRANSMISSIVITY.



Drawn By	Checked By	Date
JLD	JLD	1/25/11
JLD	JLD	4/15/11

Project Location	Scale	Project No.	Drawing Description
T16MD	H: 1"=50'	11-02410	SUBSTATION AND O&M LAYOUT



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Project No. 74490E
 Engineer JLD
 Permit PERMIT
 Sheet No. C-2

GENERAL NOTES & CONSTRUCTION SPECIFICATIONS

- FINAL STABILIZATION WILL BE DONE WITHIN 7 DAYS OF FINAL GRADING OR WITHIN 30 DAYS OF INITIAL SOIL DISTURBANCE.
- 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: BEST MANAGEMENT PRACTICES," BY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 2003.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES, INCLUDING MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL.
- SEE DETAILS FOR SLOPE STABILIZATION OPTIONS.

CONSTRUCTION SEQUENCE & PHASING NOTES

CLEARING OF VEGETATION AND STOCKPILING 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., TURBINES, SUBSTATION, O&M BUILDING, STORMWATER MANAGEMENT SYSTEMS) ARE TO BE INSTALLED/CONSTRUCTED. STUMPS TO BE GROUND ON-SITE BY THE ROAD CONTRACTOR & USED AS AN EPSC MEASURE.
- 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 ROAD SHOULDERS, TURBINE CLEARINGS AND LAY DOWN AREAS.
- MULTIPLE LAYERS OF PROTECTION INCLUDING SILT FENCE AND EROSION CONTROL MIX BERM SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE TO PROTECT DOWN STREAM RESOURCES. CONTRACTOR SHALL INSTALL ALL CONTROL MEASURES AS DIRECTED BY ENGINEER AT STOCKPILE LOCATIONS.

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

- 24-FT WIDE ACCESS ROADS & 36-FT WIDE CRANE PATHS TO BE CONSTRUCTED AS DEPICTED HEREIN.
- SURVEY CREWS TO STAKE THE ROADWAY CLEARING LIMITS BOUNDARIES & CENTERLINE TO GUIDE OPERATORS. PROVIDE ADDITIONAL STAKING & MARKING AT LOCATIONS WHERE STORMWATER CONTROL MEASURES WILL BE INSTALLED AS NECESSARY.
- MINOR GRADE AND HORIZONTAL ADJUSTMENTS MAY BE NECESSARY, DEPENDING ON FIELD CONDITIONS. ALL ADJUSTMENTS TO BE APPROVED BY ENGINEER.
- CONSTRUCTION OF ACCESS ROADS, CRANE PATHS, & LAY DOWN/STAGING AREAS WILL OCCUR IN PHASES, MINIMIZING AREAS OF EXPOSED SOIL AT ANY ONE TIME (INCLUSIVE OF ANY OTHER EXPOSED SOIL AREAS WITHIN THE DESIGNATED LIMITS OF DISTURBANCE).

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.

CONSTRUCTION OF CRANE PADS

- AFTER THE SUBGRADE IS ESTABLISHED, CRANE PAD TO BE CONSTRUCTED WITH CRUSHED AGGREGATE SPREAD & COMPACTED OVER A GEOTEXTILE LINER AS NECESSARY; MINOR GRADE ADJUSTMENTS MAY BE NECESSARY DEPENDING ON FIELD CONDITIONS. ADJUSTMENTS TO BE APPROVED BY ENGINEER.
- CRANE PADS TO REMAIN IN PLACE FOR FUTURE MAINTENANCE & OPERATION.
- ALL EXPOSED SOIL SURROUNDING CRANE PADS & TURBINE FOUNDATIONS TO BE STABILIZED.

CLEAN-UP & FINAL STABILIZATION

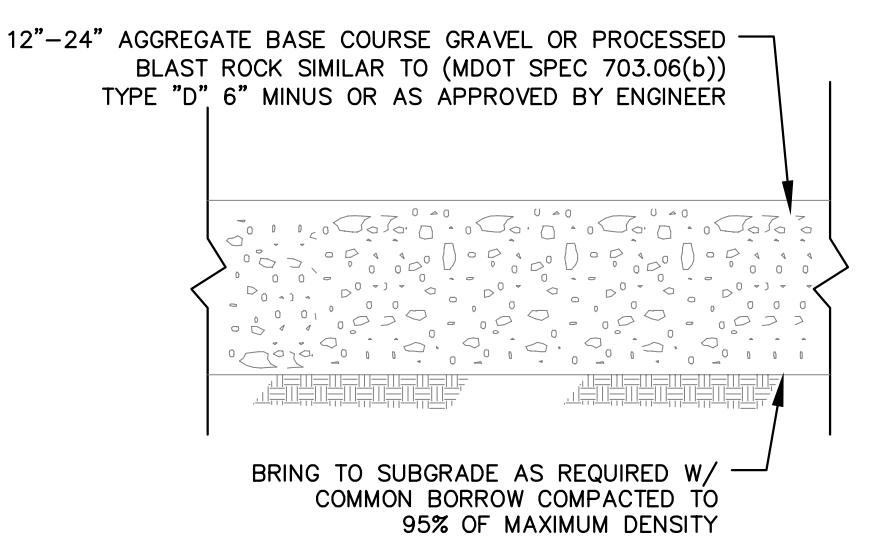
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL WORK AREAS TO BE CLEARED OF CONSTRUCTION DEBRIS & OTHER MATERIALS.
- SPECIFIC CLEAN-UP REQUIREMENTS TO INVOLVE: REMOVAL OF ALL TEMPORARY WORK TRAILERS; REMOVAL OF MATERIAL & EQUIPMENT; DISPOSAL OF ALL RUBBISH RESULTING FROM CLEARING, CONSTRUCTION, & INSTALLATION; 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, 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.
- LAYDOWN AREA 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.

1 TYPICAL CONSTRUCTION NOTES
C-3 NOT TO SCALE

- NOTE:**
- COMPACT GRAVEL BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION
 - ALL CRANE PADS SHALL BE CONSTRUCTED WITH NO CROSS SLOPE IN ANY DIRECTION.
 - CRANE PADS SHALL BE 75'x100' (MINIMUM). EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY GENERAL CONTRACTOR.



2 TYPICAL GRAVEL CRANE PAD SECTION
C-3 NOT TO SCALE

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.
- WIRE REINFORCED SILT FENCE SHALL BE UTILIZED IN ALL AREAS (SEE DETAILS).
- 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-INCH.
- IF VEHICLE TRAFFIC IS ANTICIPATED AROUND STRUCTURES UNDER CONSTRUCTION, THE AREA SHALL BE STABILIZED WITH STONE.
- EXCAVATED FROZEN SOILS SHALL BE STOCKPILED IN LEVEL AREAS AND SHALL NOT BE USED UNTIL THAWED. STOCKPILES SHALL BE ENCLOSED WITH EROSION CONTROL MIX BERMS AS NECESSARY.
- EROSION 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 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.
- THE 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 STORM 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 BUT LESS THAN ONE GROWING SEASON SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED OR OTHERWISE STABILIZED.
- 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 OCTOBER 1, 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.

DORMANT SEEDING NOTES

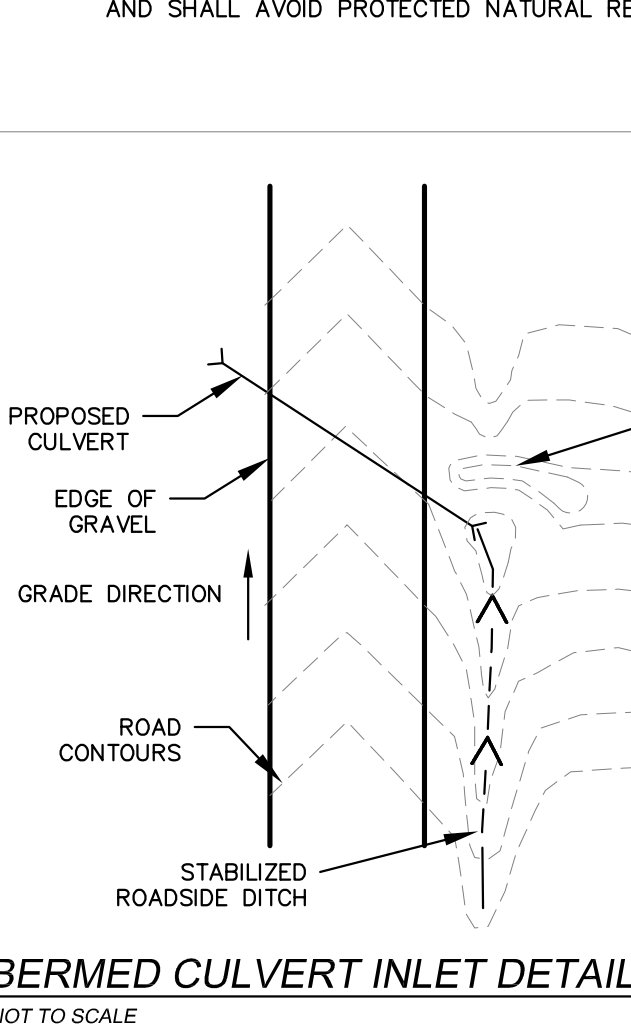
- DURING PERIODS FROM OCTOBER 1 TO NOVEMBER 15, AREAS DISTURBED SHALL BE DORMANT SEEDED WITH WINTER RYE, 5 LB/1,000 SF. DURING PERIODS BETWEEN NOVEMBER 15 AND APRIL 15, DISTURBED AREAS SHALL BE MULCHED AND IF NECESSARY, STABILIZED WITH EROSION CONTROL MESH.

SPECIFIC MAINTENANCE INSTRUCTION:

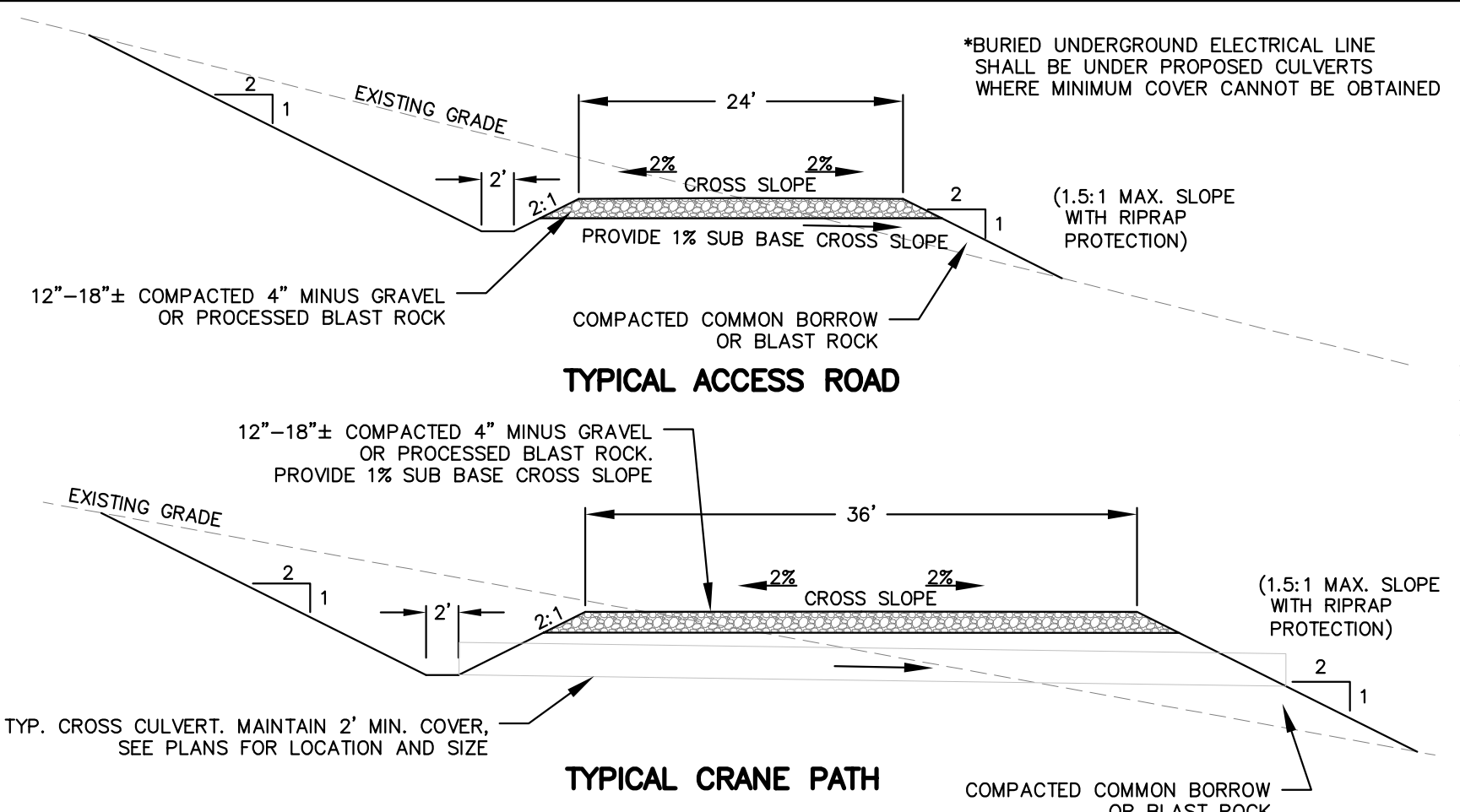
- STRAW/HAY BALE BARRIERS, SILT FENCE, FILTER BARRIERS- MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REPLACE W/ TEMPORARY CHECK DAM IF THERE IS UNDERCUTTING AT CENTER OR EDGES, OR IF LARGE VOLUMES OF WATER ARE IMPOUNDED. REPLACE DECOMPOSED OR INEFFECTIVE FABRIC IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AFTER EACH 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 DREGED.
- A STORMWATER MAINTENANCE LOG SHOULD BE MAINTAINED TO DOCUMENT COMPLIANCE WITH THE SUGGESTED SCHEDULE.

DEWATERING

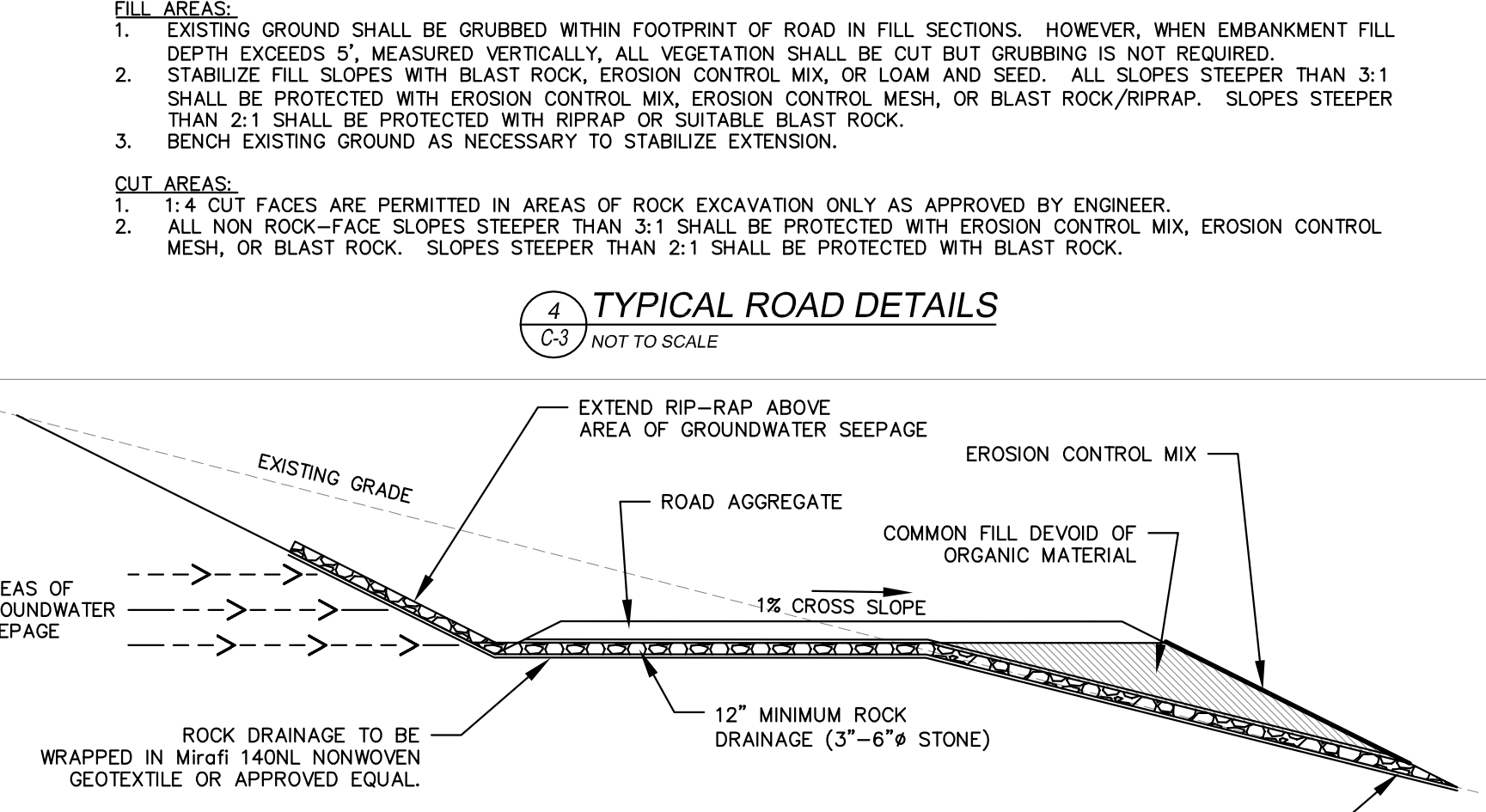
- CONTRACTOR SHALL BE AWARE THAT A HIGH WATER TABLE EXISTS AT SEVERAL TURBINE PAD LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DEWATERING. EXCAVATIONS DURING CONSTRUCTION.
- CONTRACTOR SHALL DISPOSE OF PUMPED WATER IN APPROPRIATE MANNER TO AVOID CONCENTRATED FLOWS FROM SITE. THE USE OF SETTLEMENT BASINS OR SEDIMENT CONTROL DEVICES SUCH AS "DIRTBAGS" AND TEMPORARY SEDIMENT BASINS SHALL BE EMPLOYED TO SEPARATE SEDIMENTS FROM DEWATERING ACTIVITIES. 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 AND THIRD PARTY INSPECTOR 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. LOCATIONS FOR ALL OUTLETS OF DEWATERING ACTIVITIES SHALL NOT BE PLACED IN IMMEDIATE VICINITY OF PROTECTED NATURAL RESOURCES.
- PERMANENT DEWATERING REQUIRED FOR FOUNDATION DRAINAGE SHALL OUTLET AS GRADES ALLOW. PERMANENT OUTLETS 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.
- IN LOCATIONS WHERE OUTLET REQUIRES THE PLACEMENT OUTSIDE THE DEPICTED CLEARING LIMITS CONTRACTOR SHALL MINIMIZE DISTURBANCE TO SMALLEST EXTENT PRACTICABLE AND SHALL AVOID PROTECTED NATURAL RESOURCES.



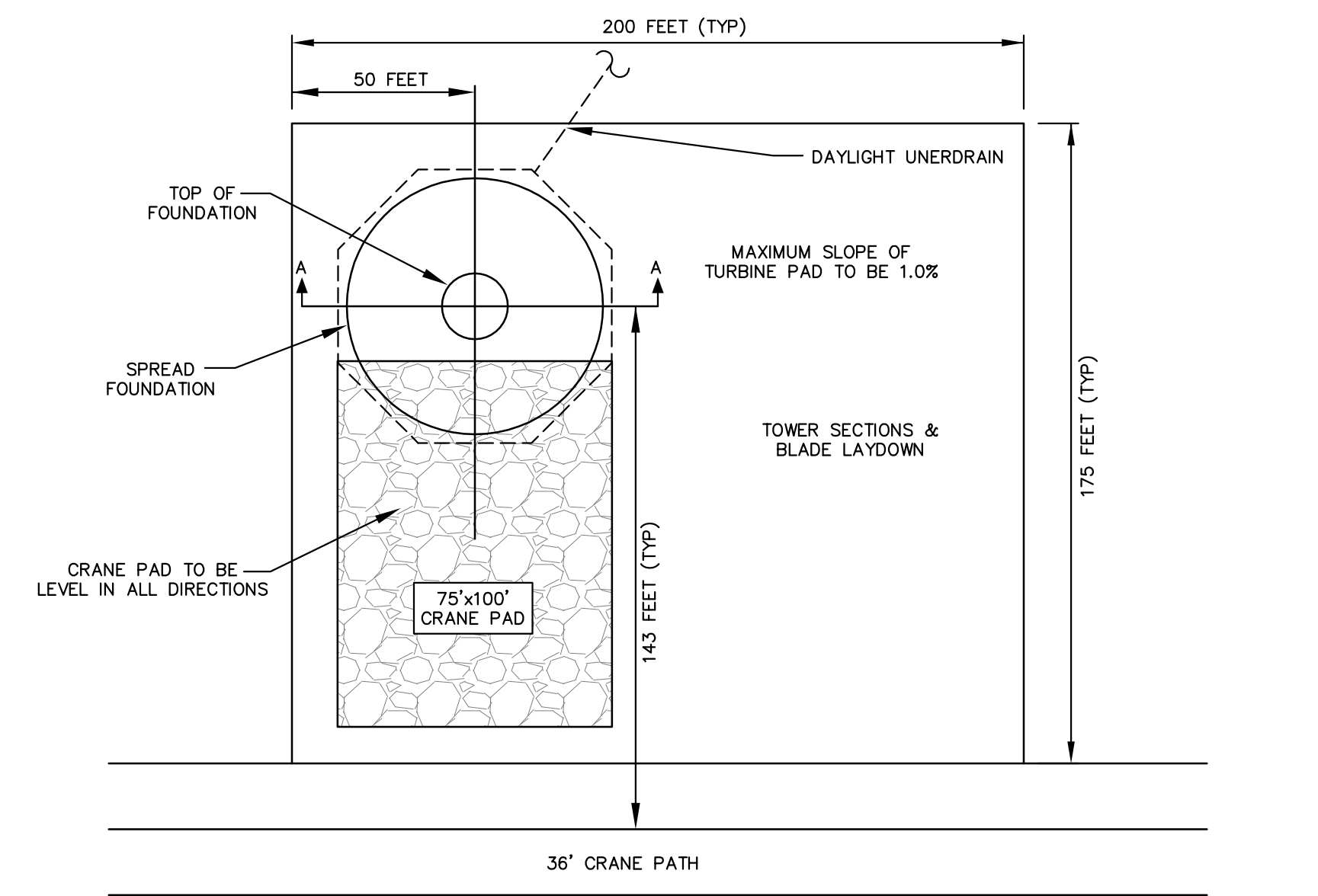
3 BERMED CULVERT INLET DETAIL
C-3 NOT TO SCALE



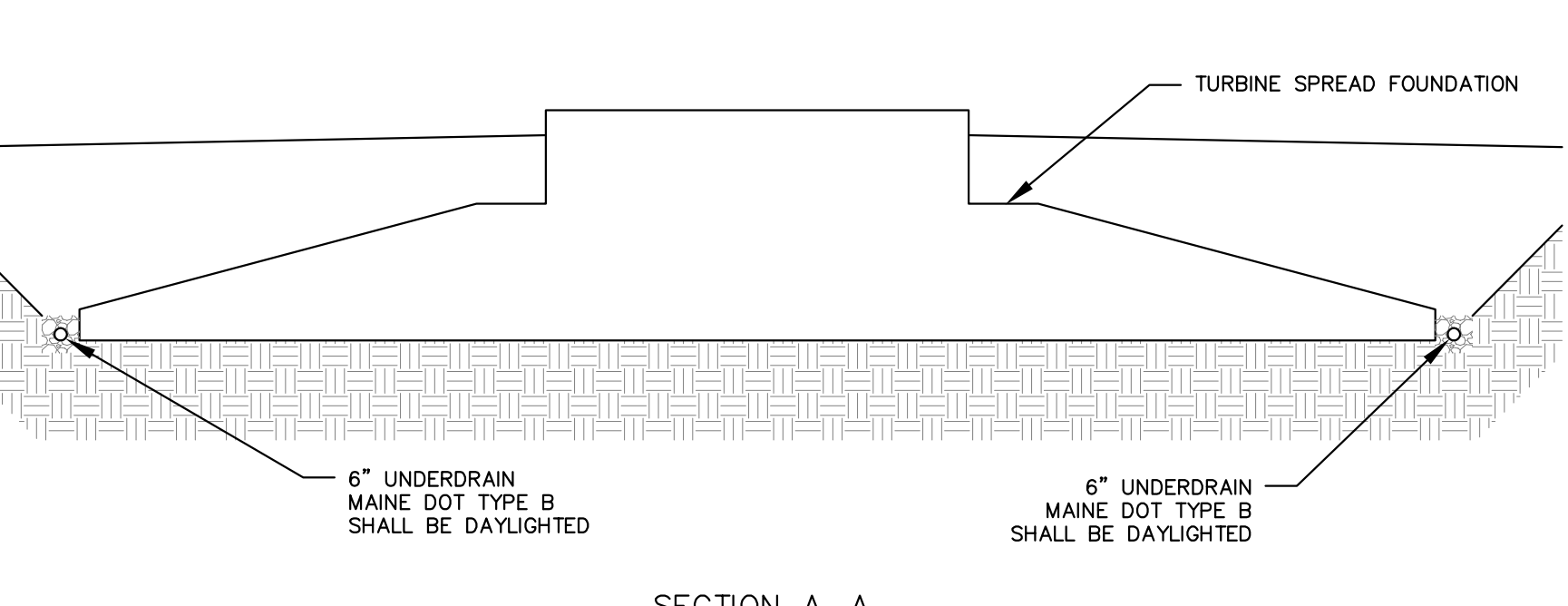
4 TYPICAL ROAD DETAILS
C-3 NOT TO SCALE



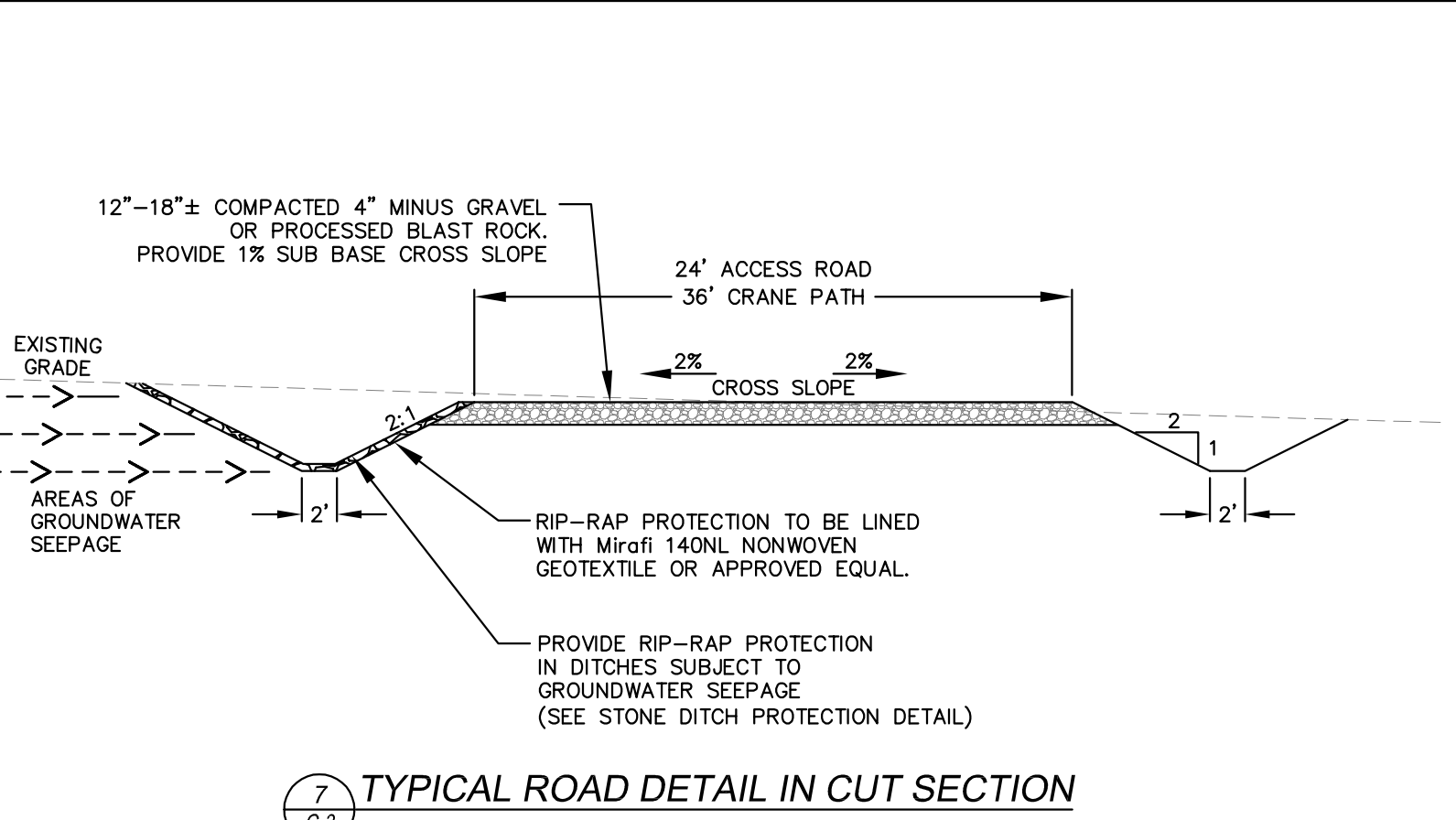
5 ROCK SANDWICH DETAIL
C-4 NOT TO SCALE



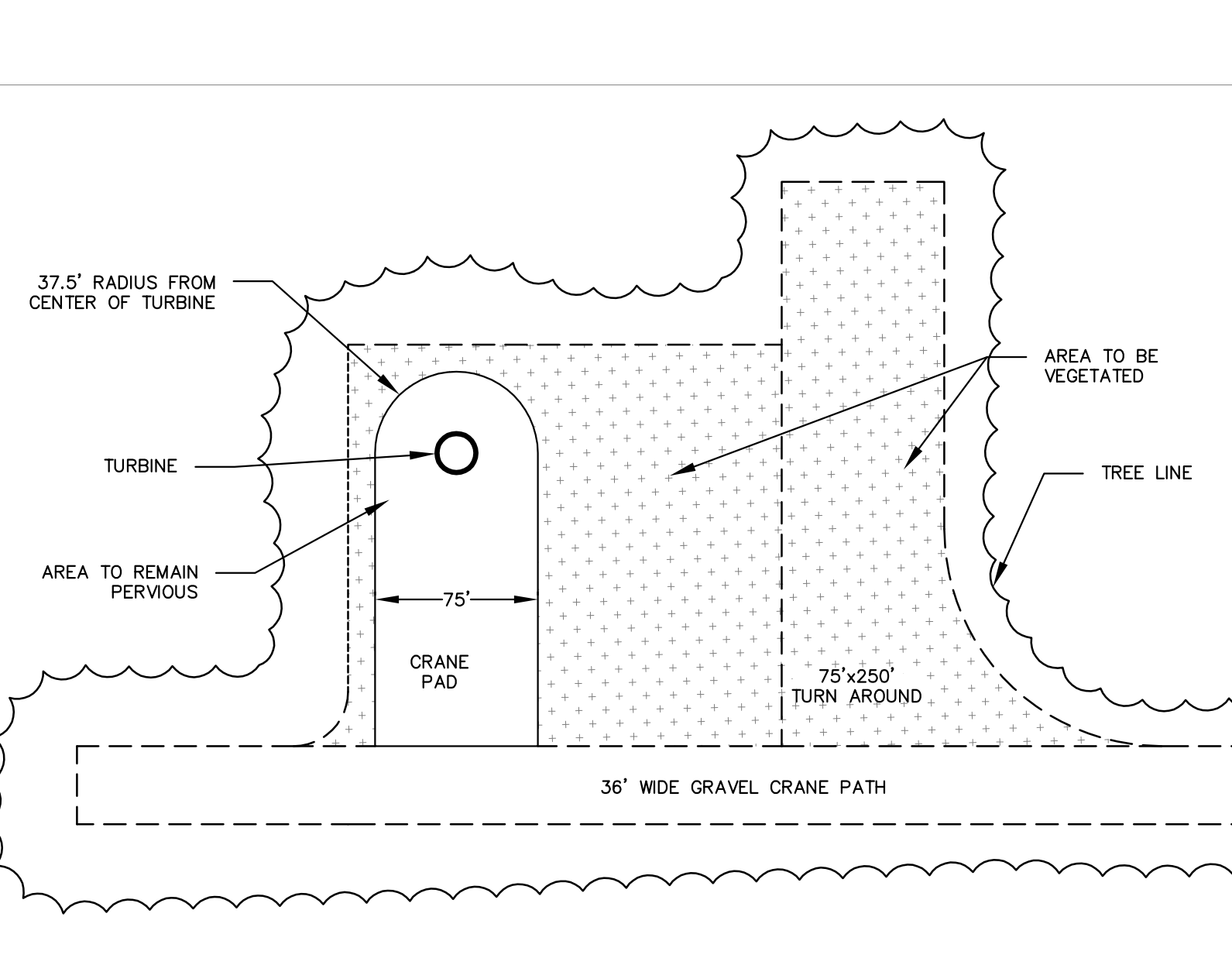
6 TYPICAL TURBINE PAD LAYOUT
C-3 NOT TO SCALE



SECTION A-A



7 TYPICAL ROAD DETAIL IN CUT SECTION
C-3 NOT TO SCALE



8 TURBINE PAD REVEGETATION POST CONSTRUCTION
C-3 NOT TO SCALE

CULVERT SCHEDULE TURBINE 1-6

CL STATION	SIZE (INCH)	DRAINAGE AREA (ACRE)
1002+21.5	30	16.32
1010+78.5	15	5.72
1016+05	15	1.20
1021+00	15	1.65
1025+31	15	0.73
1038+51	15	0.24
5009+73	15	0.48

CULVERT SCHEDULE TURBINE 7-9

CL STATION	SIZE (INCH)	DRAINAGE AREA (ACRE)
501+95	15	2.10
1004+17.5	15	2.95
1010+97	30	17.96
1016+98	18	8.26
1024+75	15	1.73

CULVERT SCHEDULE TURBINE 10-19

CL STATION	SIZE (INCH)	DRAINAGE AREA (ACRE)
8+36	15	1.60
11+84	15	0.13
19+15.5	15	1.20
22+09	15	1.93
26+14.5	15	2.33
34+12	15	3.53
36+09	15	0.64
44+00	15	0.31
51+93.8	15	0.18
57+03	15	0.69
68+77.2	15	1.78
74+92.5	15	3.35
80+16	24	9.26
MET 4-4+93	15	5.16
84+28	15	0.90

Drawn By	JLD	Date	1/25/11
Checked By	JLD	Revised Per LURC Comments Dated	07/19/11
Designated By	JLD	Revised Per Agency Comments Dated	04/11/11
Scale	NOT TO SCALE		

BULL HILL WIND PROJECT

Project Location: T16 MD, HANCOCK COUNTY

Scale: NOT TO SCALE

Approved: [Signature]

Checked: ECH



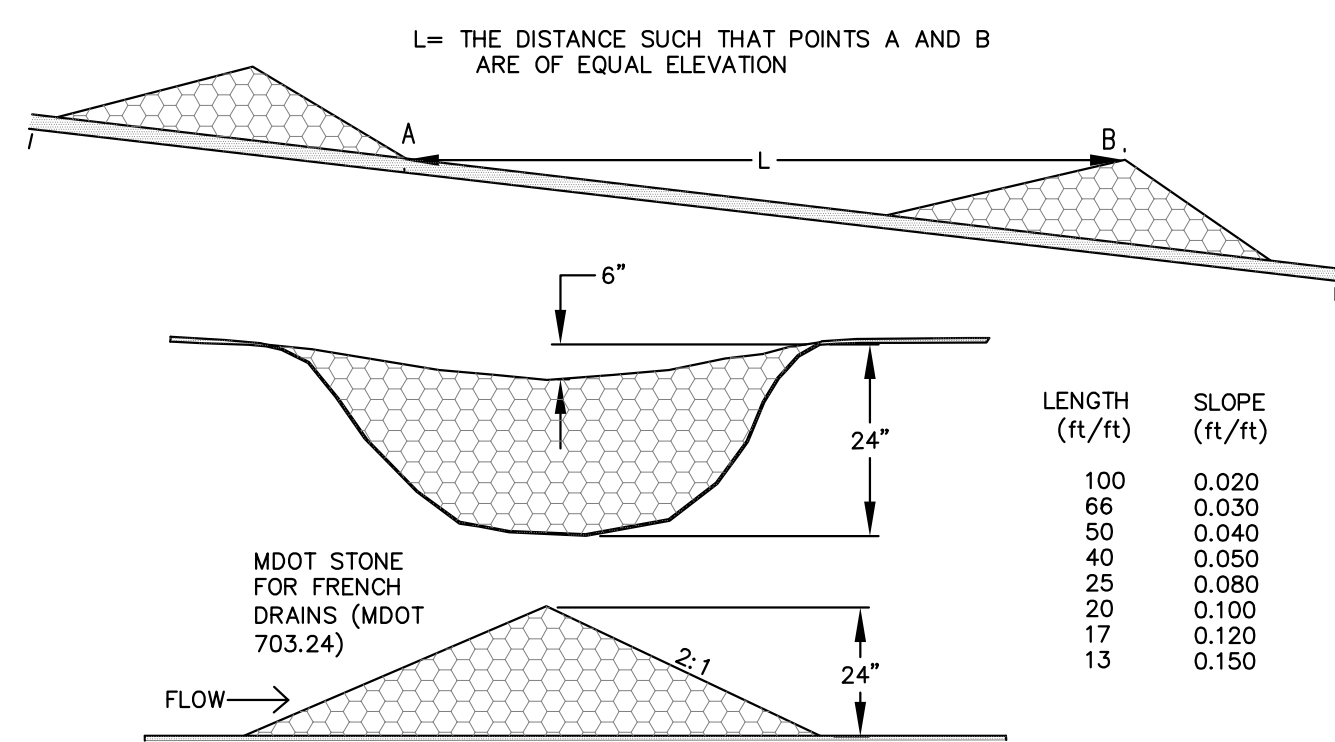
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SEWALL

JAMES W. SEWALL COMPANY (Since 1886)

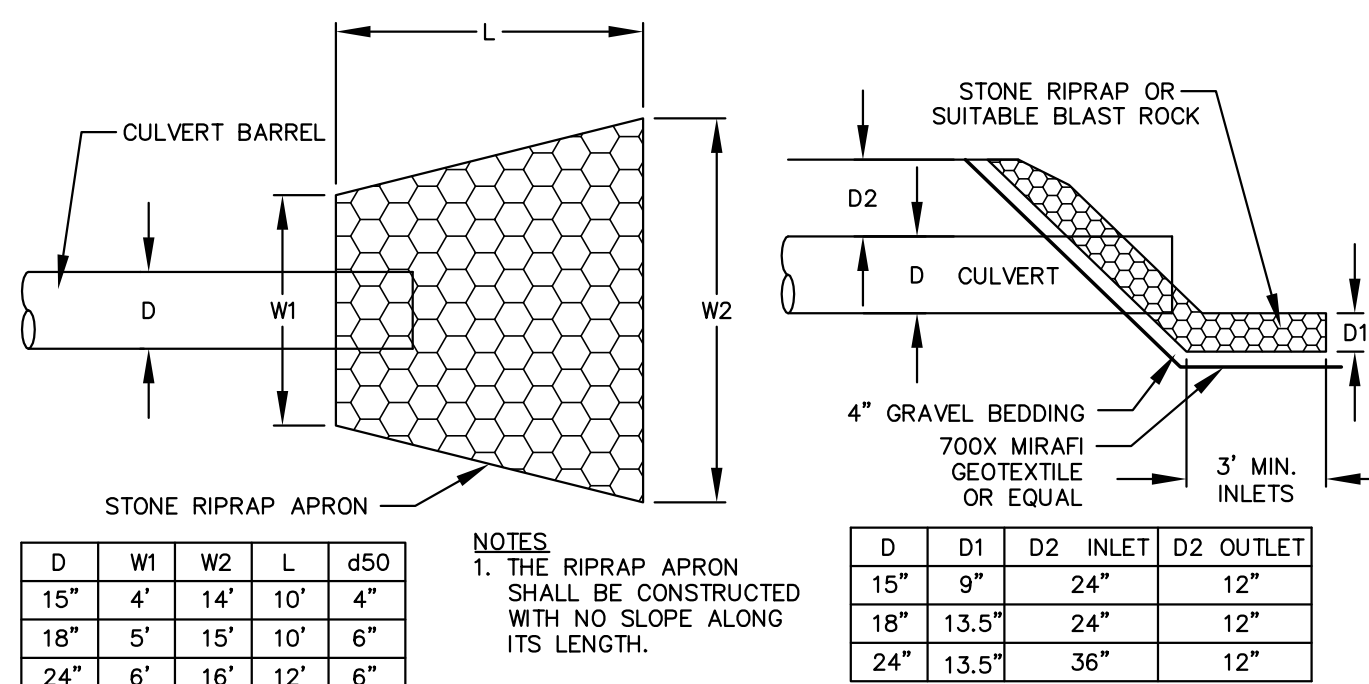
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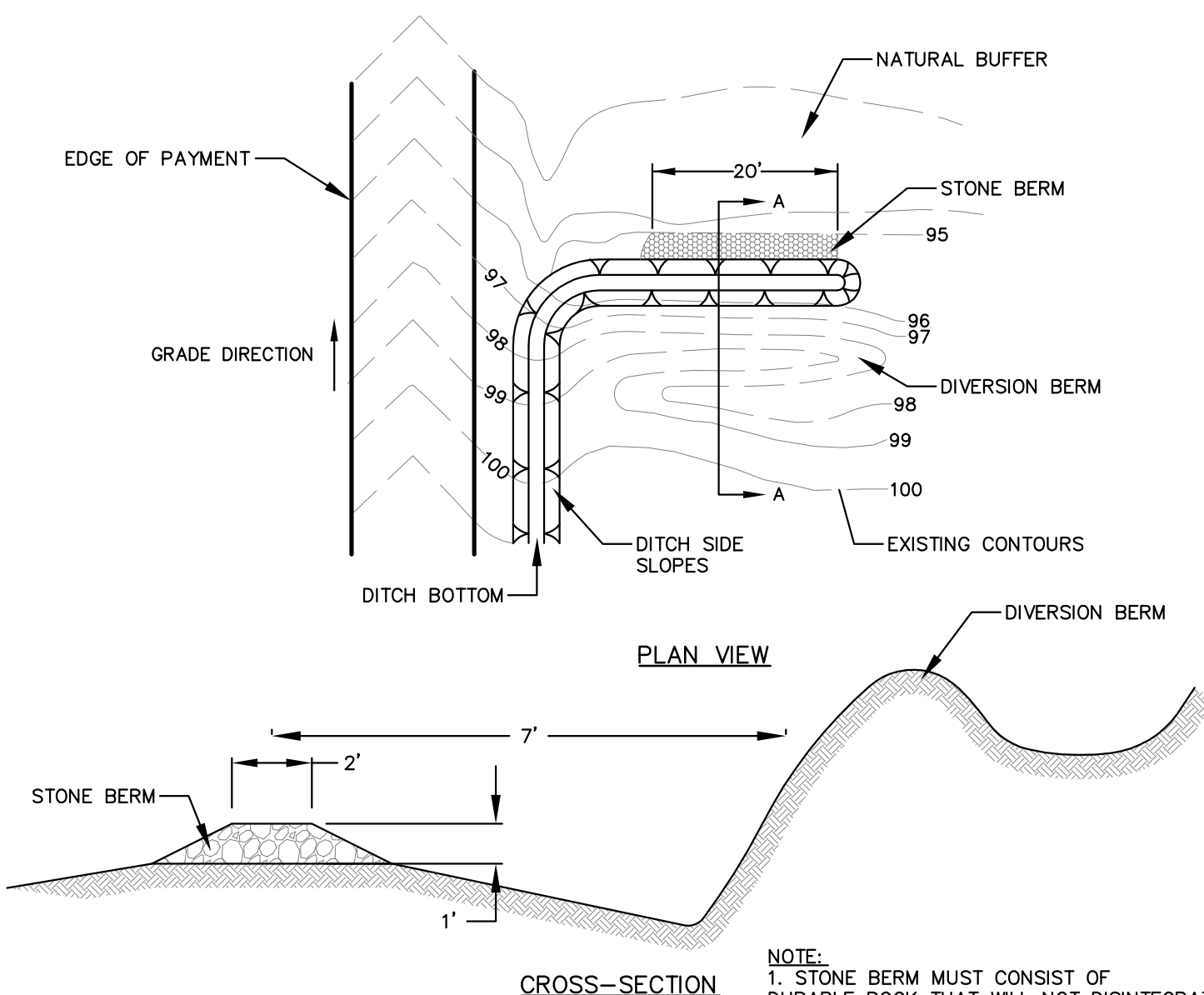
NOTE: 1. EXACT LOCATIONS OF DAMS TO BE FIELD DETERMINED.

1 STONE CHECK DAM DETAILS
C-4 NOT TO SCALE

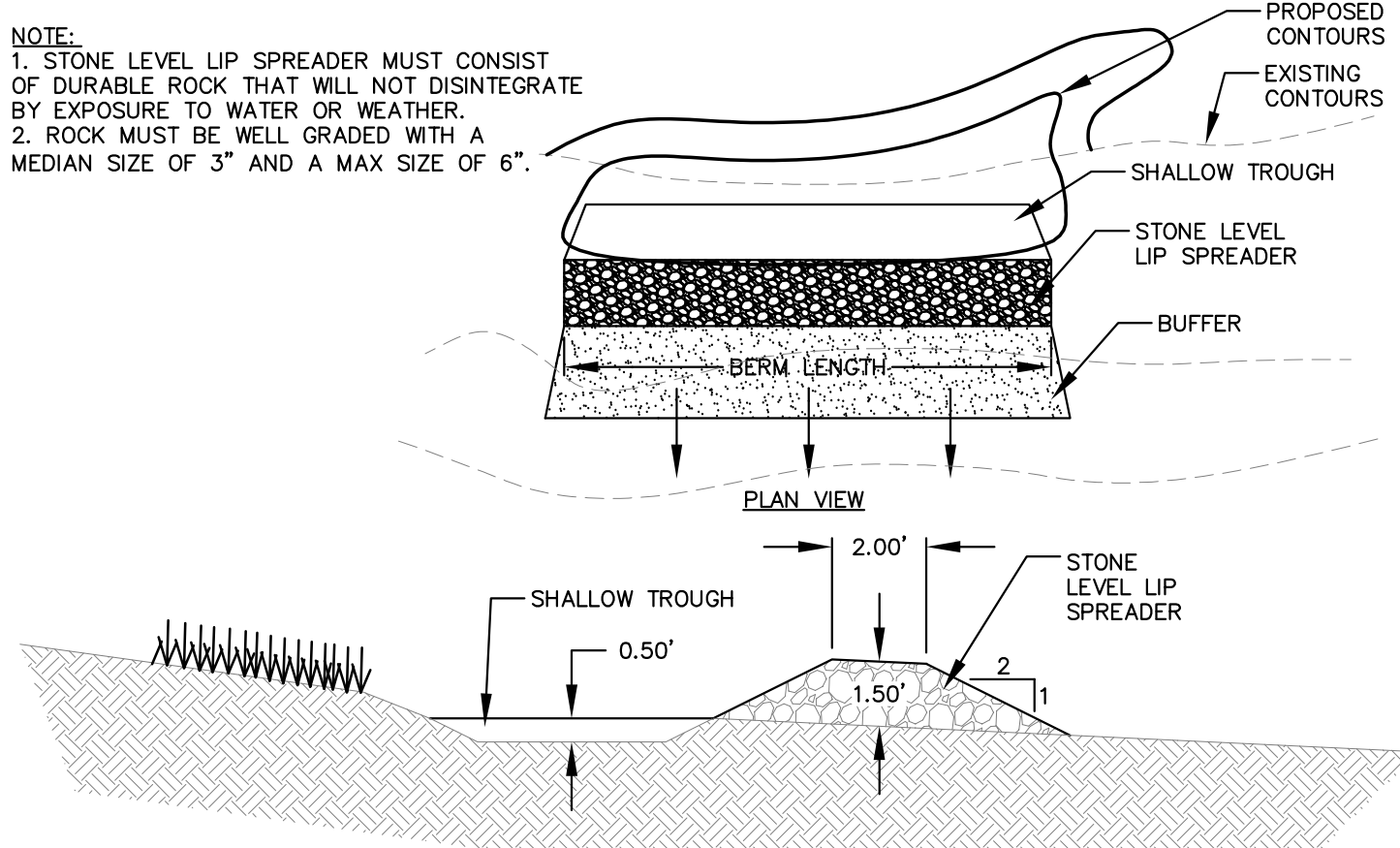


NOTE: APRONS SHALL BE CONSTRUCTED ON ALL CULVERT INLETS/OUTLETS UNLESS APPROVED BY ENGINEER.

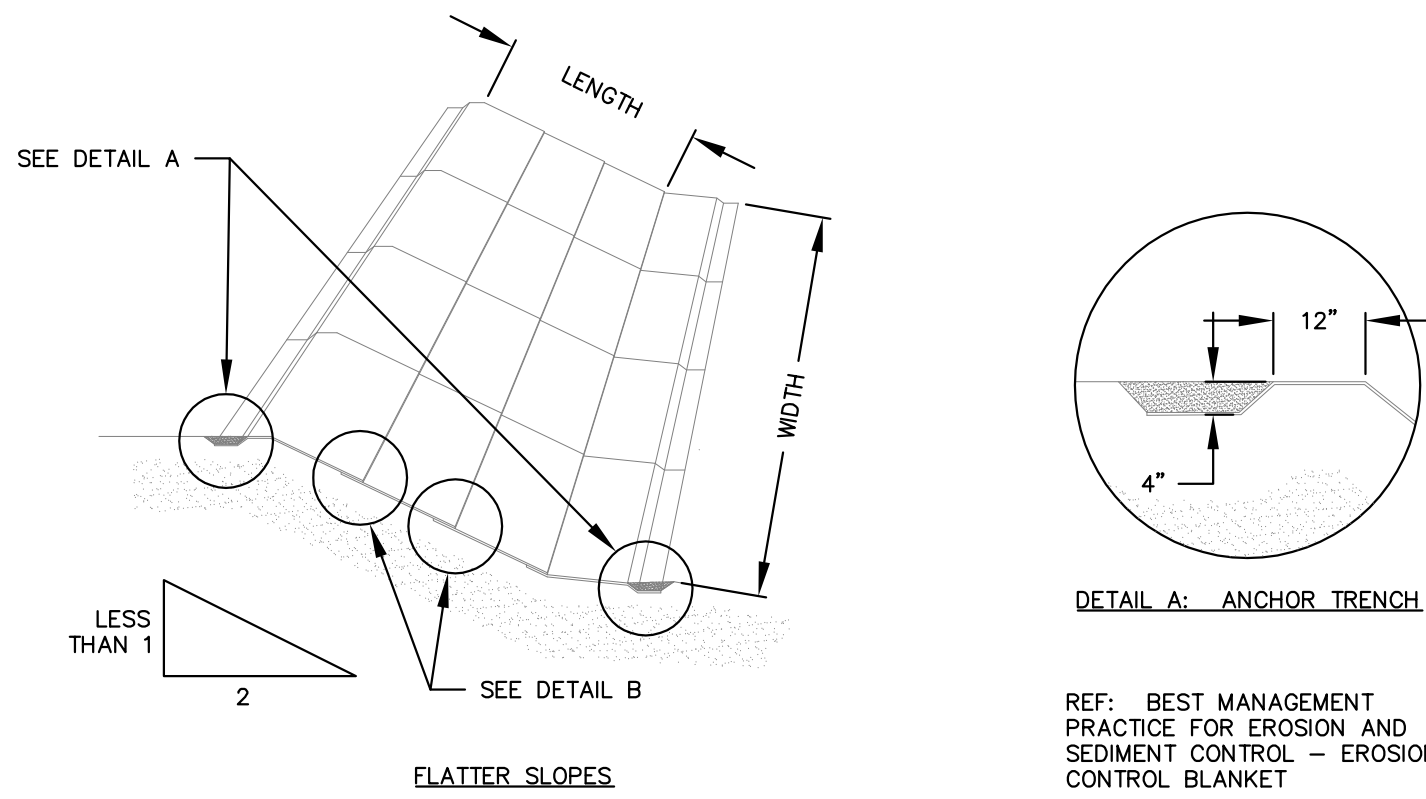
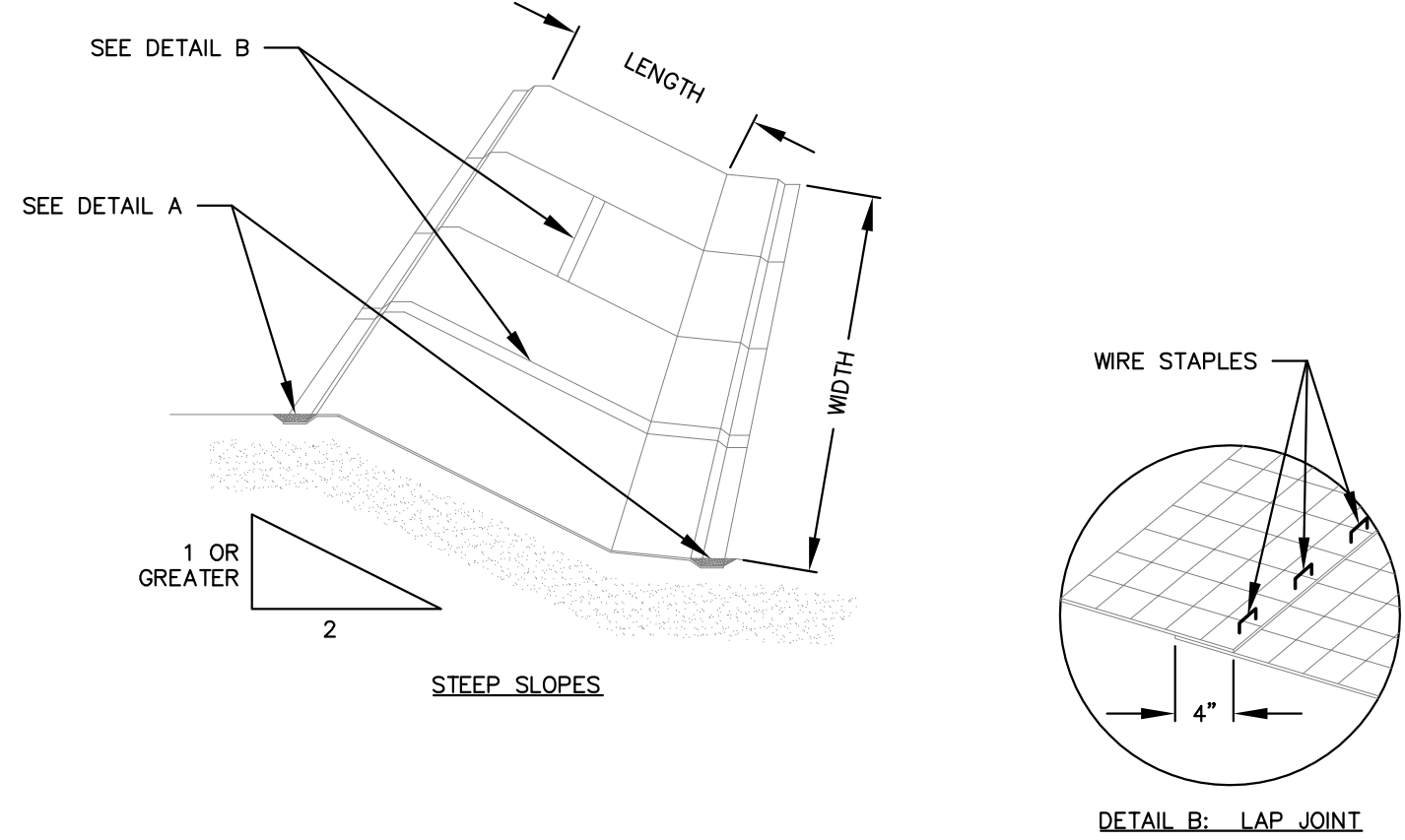
2 CULVERT INLET/OUTLET DETAIL
C-4 NOT TO SCALE



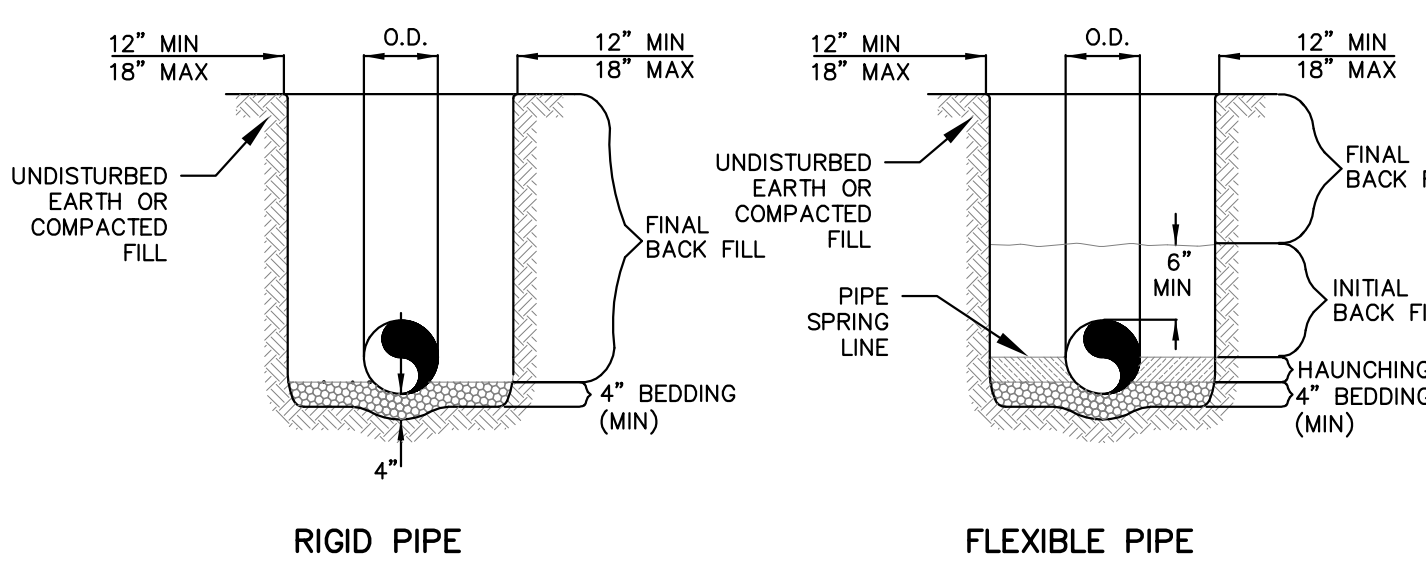
3 TYPICAL DITCH TURNOUT
C-4 NOT TO SCALE



4 STONED LEVEL LIP SPREADER DETAIL
C-4 NOT TO SCALE

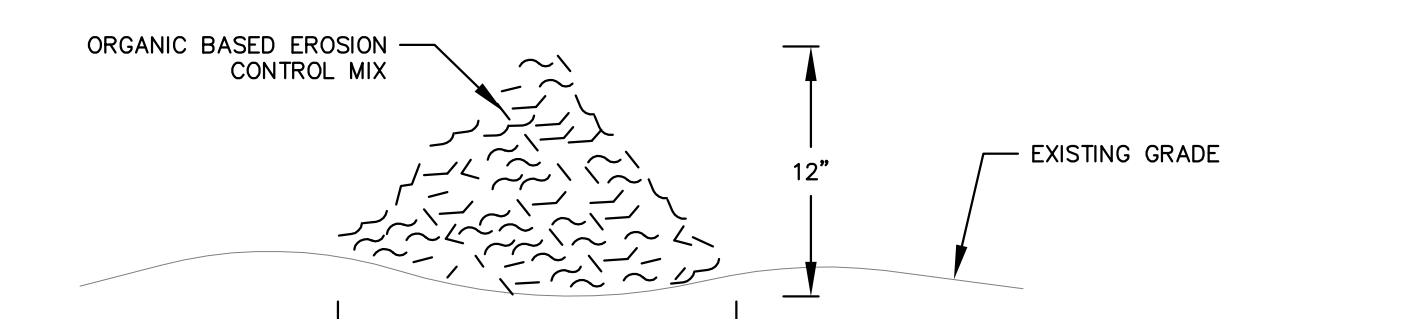


5 SLOPE APPLICATION-FOR EROSION CONTROL MESH
C-4 NOT TO SCALE



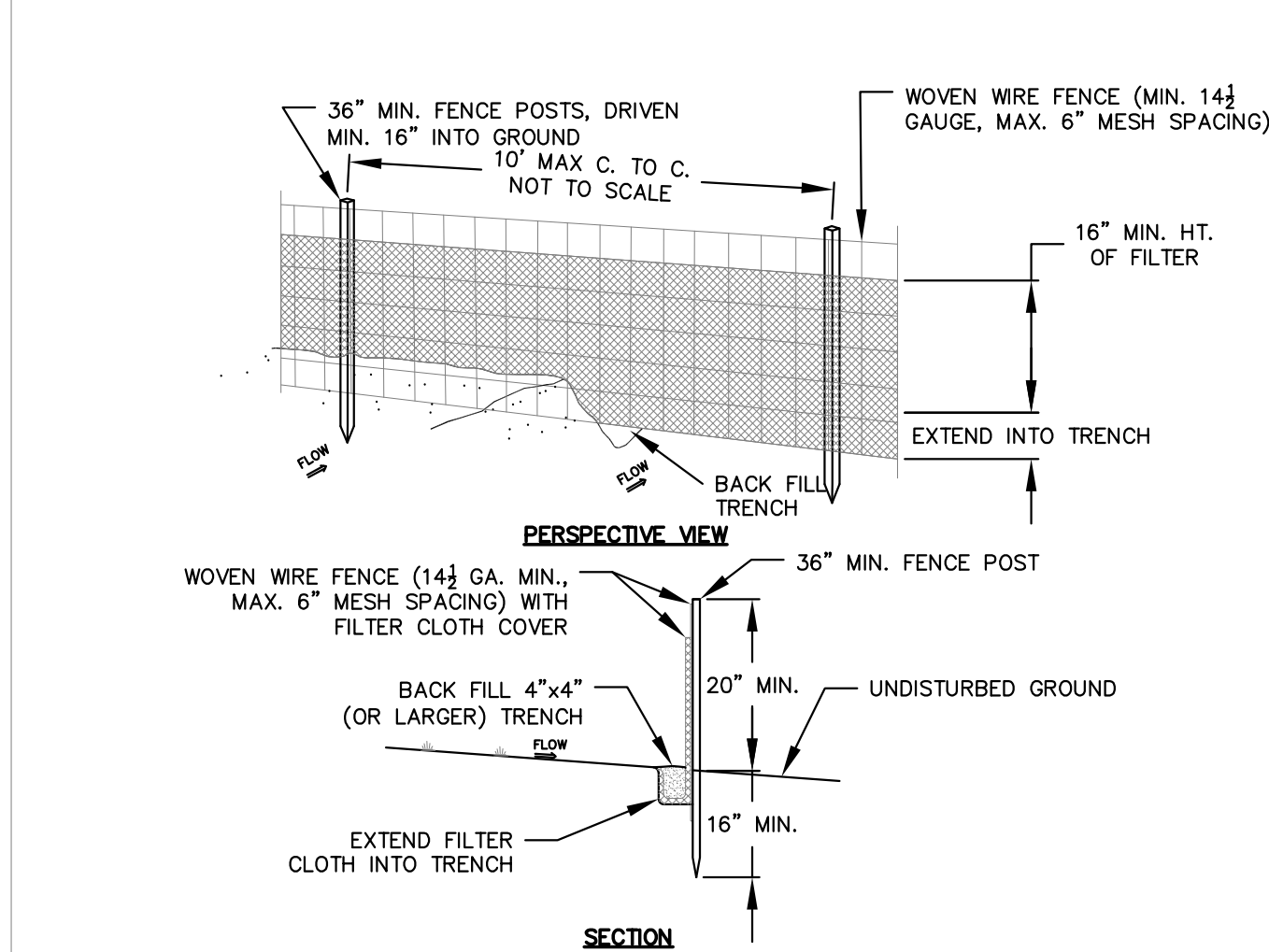
- GENERAL NOTES**
- *AASHTO SOIL CLASSIFICATIONS USED
 - 1. BEDDING SHALL BE CLASS I-A WORKED BY HAND, IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
 - 2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
 - 3. INITIAL BACK FILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
 - 4. FINAL BACK FILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. FINAL COVER OVER PIPE SHALL BE MIN. 24".
 - 5. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION.
 - 6. 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.
 - 7. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
 - 8. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

6 STORM DRAIN TRENCH AND BEDDING
C-4 NOT TO SCALE



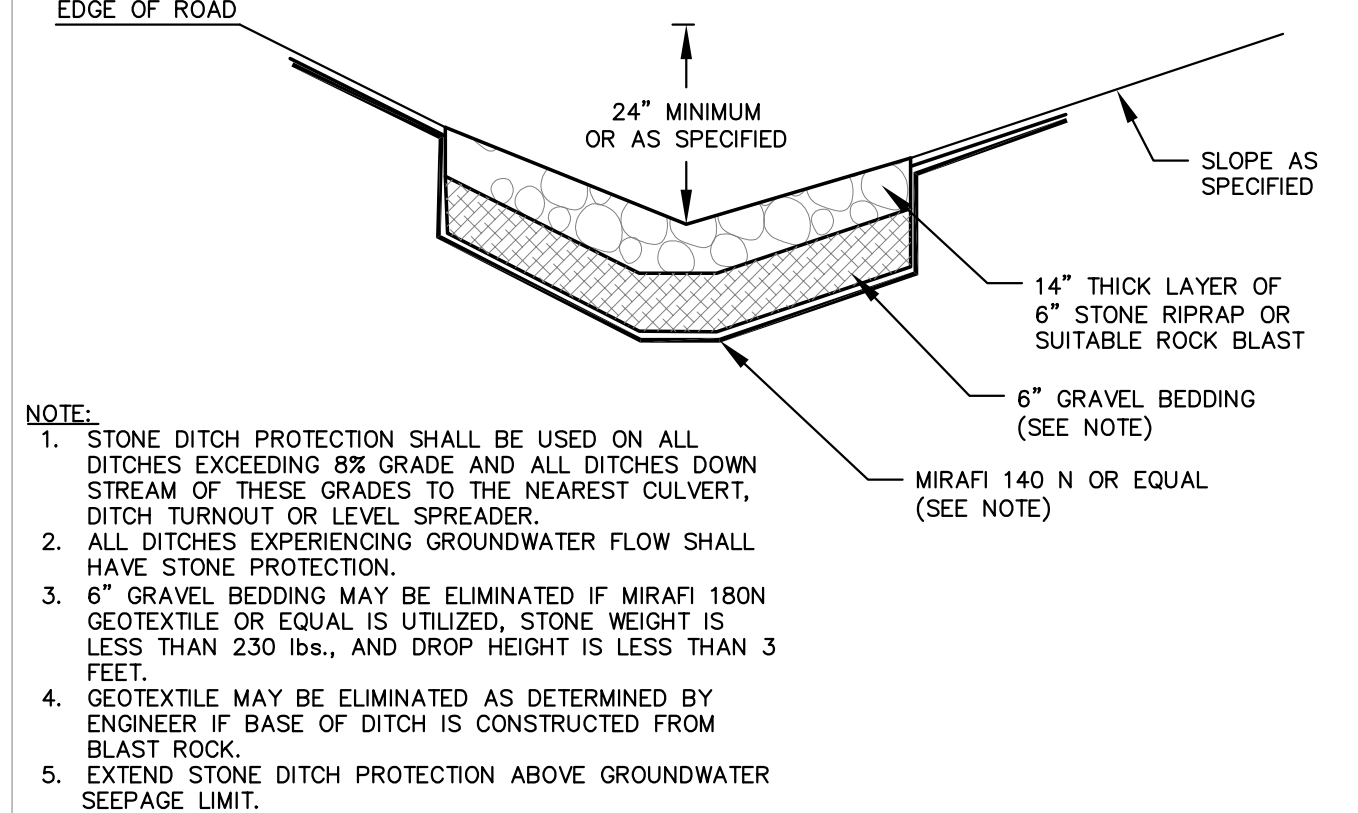
- COMPOSITION**
- EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MOEP MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL, LAST REVISED 3/2003 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, 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:**
1. THE BARRIER MUST BE PLACED ACROSS THE SLOPE, ALONG THE CONTOUR.
 2. 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.
 3. 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.
 4. EROSION CONTROL MIX MAY BE INSTALLED WHERE SILT FENCE IS ILLUSTRATED ON THE DESIGN PLANS IN AREAS 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.

7 EROSION CONTROL MIX BERM
C-4 NOT TO SCALE

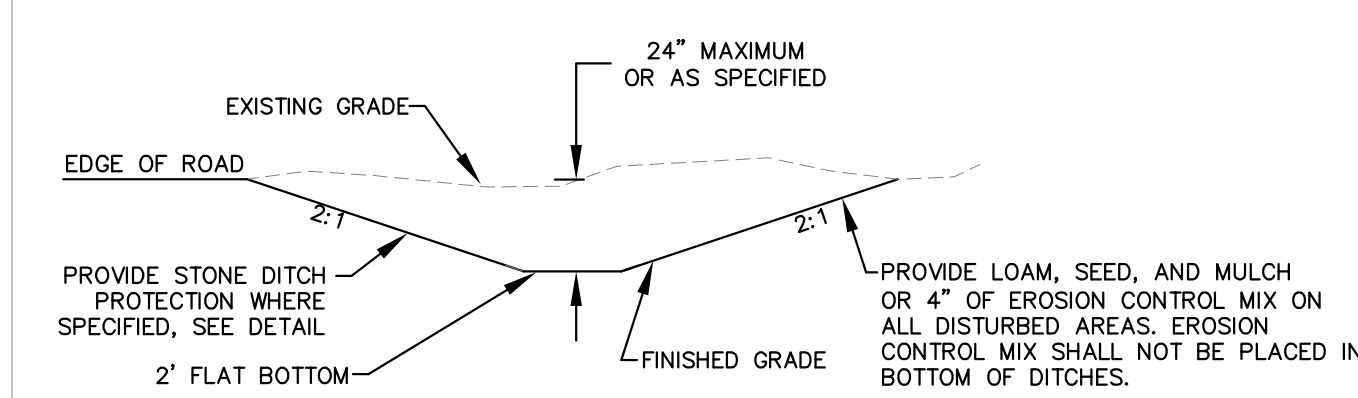


- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- NOTE: THE CONTRACTOR HAS THE OPTION TO NOT USE WOVEN WIRE MESH IF STAKE SPACERS ARE REDUCED TO 6" O.C.
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP OF MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 5. SILT FENCE SHALL BE INSTALLED ALONG THE CONTOUR.
 6. NO MORE THAN 1/4 ACRE OF DRAINAGE AREA FOR EACH 100 FEET OF FENCING.
- POSTS: STEEL EITHER T OR U TYPE 2" HARDWOOD
FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVROFENCE, OR APPROVED EQUAL

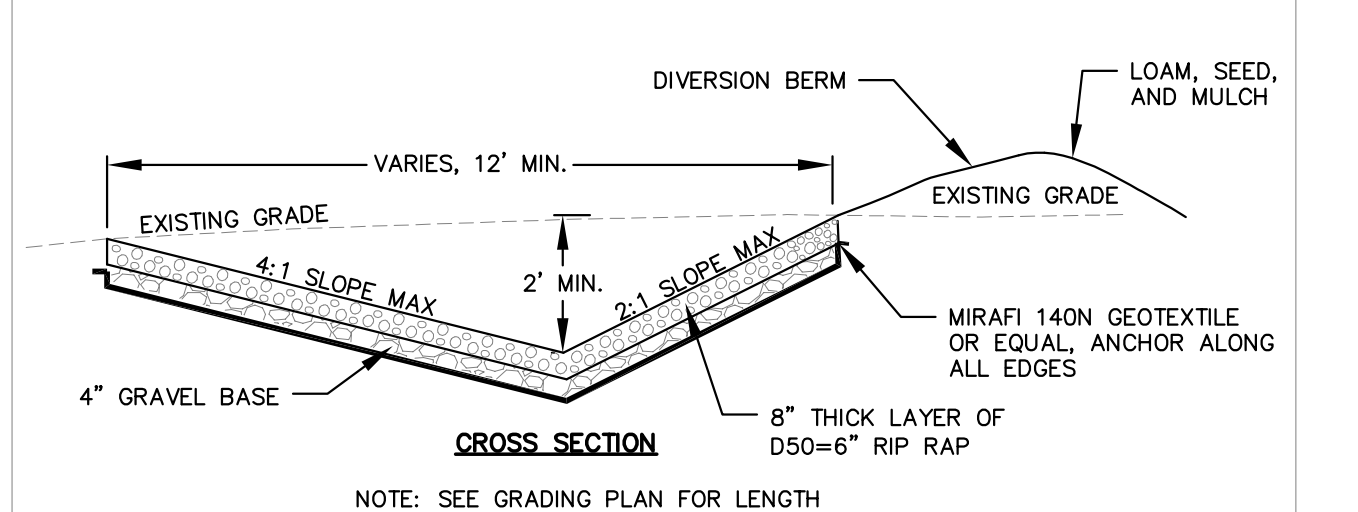
8 SILT FENCE DETAIL
C-4 NOT TO SCALE



9 TYPICAL STONE DITCH PROTECTION DETAIL
C-4 NOT TO SCALE

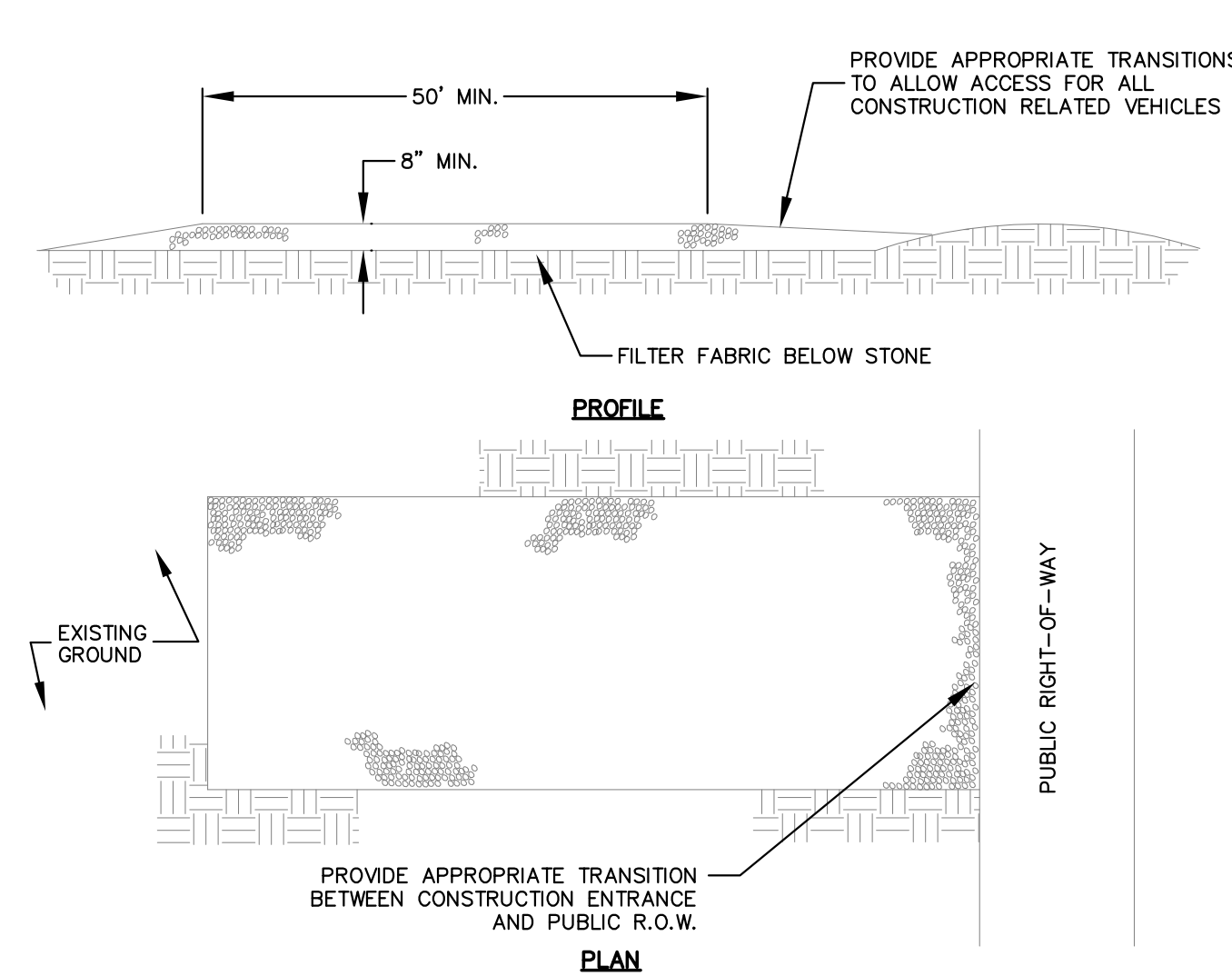


10 TYPICAL DITCH CROSS SECTION
C-4 NOT TO SCALE



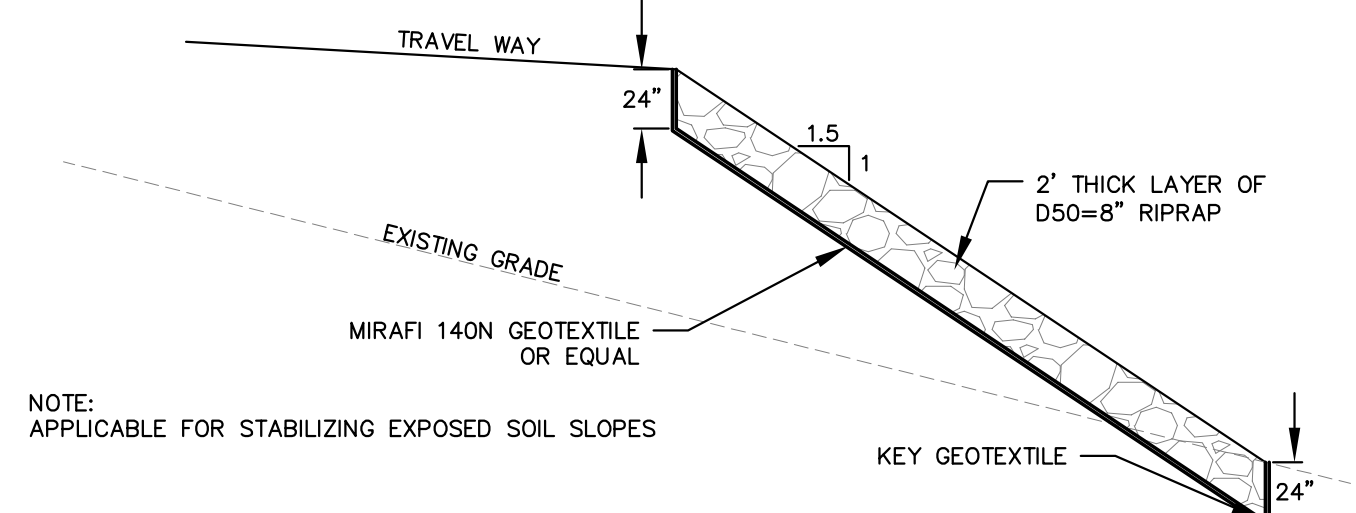
- LEVEL SPREADER NOTES**
- 1) ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION.
 - 2) ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN A CUT SECTION, I.E. THERE SHALL BE NO EARTH FILL ALONG DOWNSTREAM EDGE.
 - 3) ALL LEVEL SPREADERS SHALL BE ALIGNED PARALLEL TO THE EXISTING CONTOURS.
 - 4) 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.
 - 5) THE LEVEL SPREADER SHALL HAVE A LONGITUDINAL GRADE OF 0.0%

11 LEVEL SPREADER
C-4 NOT TO SCALE

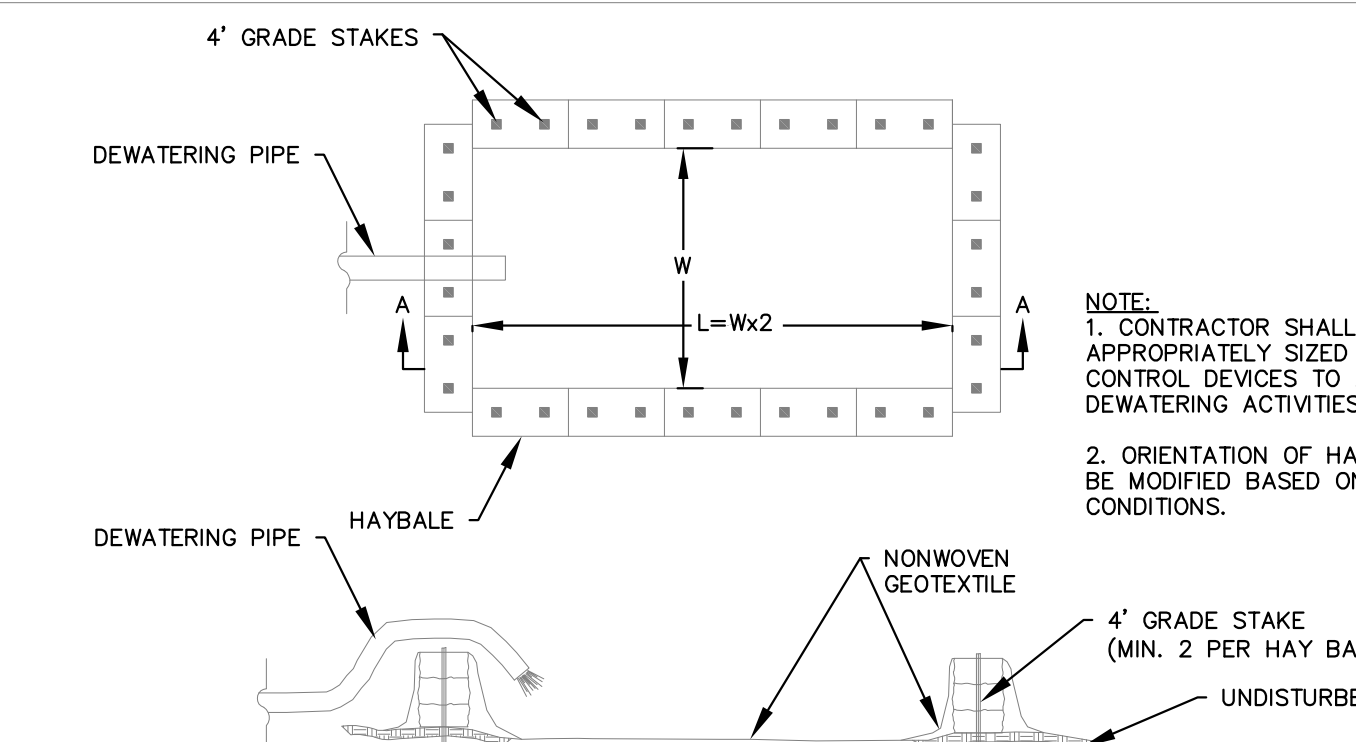


- NOTES:**
1. STONE SIZE - AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
 2. LENGTH - AS SHOWN ON GRADING PLAN, MIN. 50 FEET.
 3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
 4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS.
 5. MAINTENANCE - THE ENTRANCE 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 CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

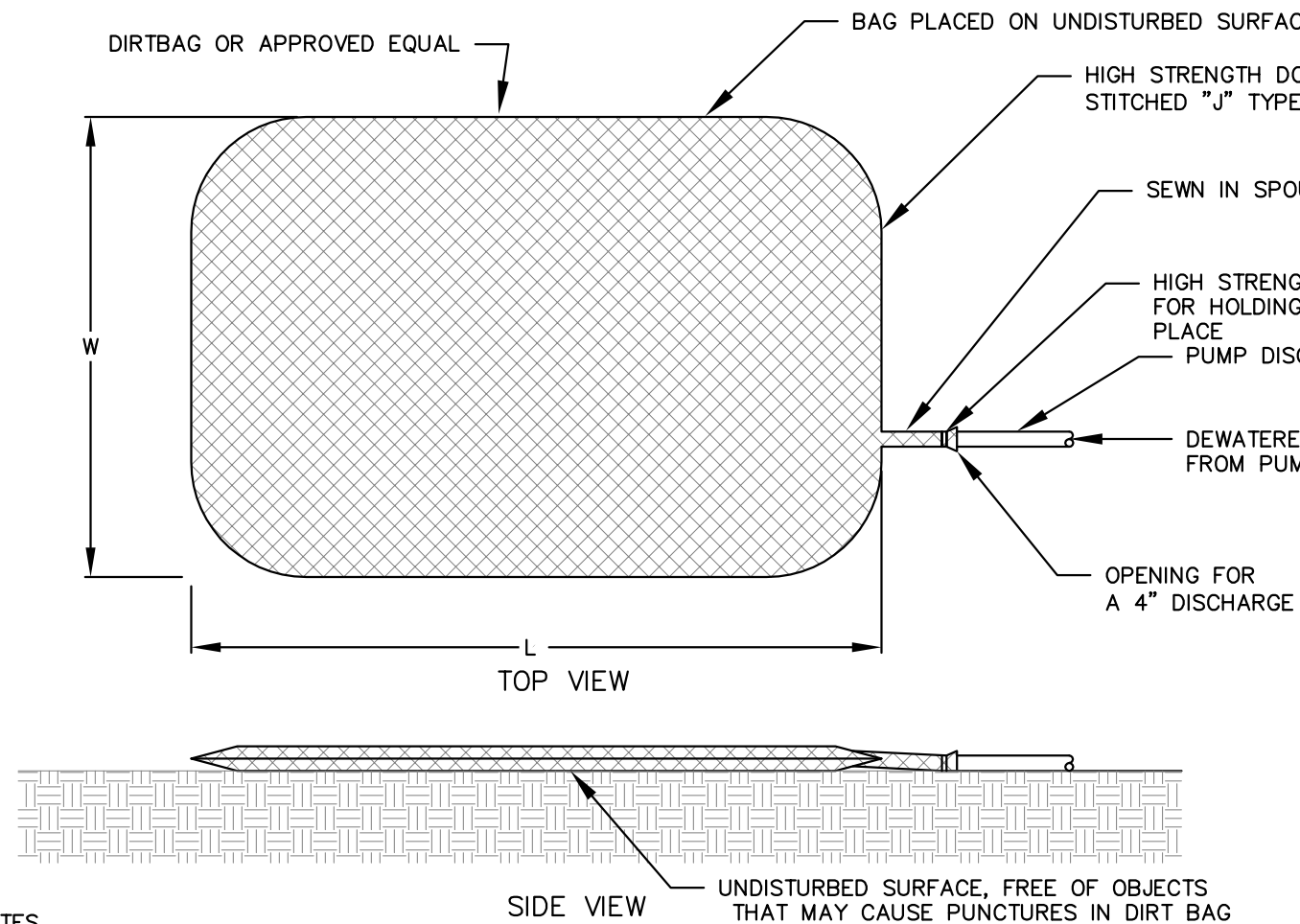
12 STABILIZED CONSTRUCTION ENTRANCE
C-4 NOT TO SCALE



13 RIPRAP SLOPE PROTECTION DETAIL
C-4 NOT TO SCALE



14 TEMPORARY DEWATERING SEDIMENT BASIN
C-4 NOT TO SCALE



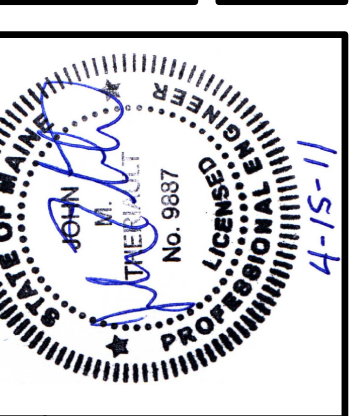
- NOTES:**
1. CONTRACTOR SHALL PROVIDE APPROPRIATE SIZED DEWATERING CONTROL DEVICES TO ACCOMMODATE DEWATERING ACTIVITIES BASED ON MANUFACTURERS RECOMMENDATIONS AND ANTICIPATED FLOW RATES.
 2. SEDIMENT CONTROL DEVICES SHALL BE REPLACED WHEN FULL. SEDIMENT CAN BE DISPOSED OFF IN NON STRUCTURAL FILL AREAS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

15 DIRT BAG DETAIL
C-4 NOT TO SCALE

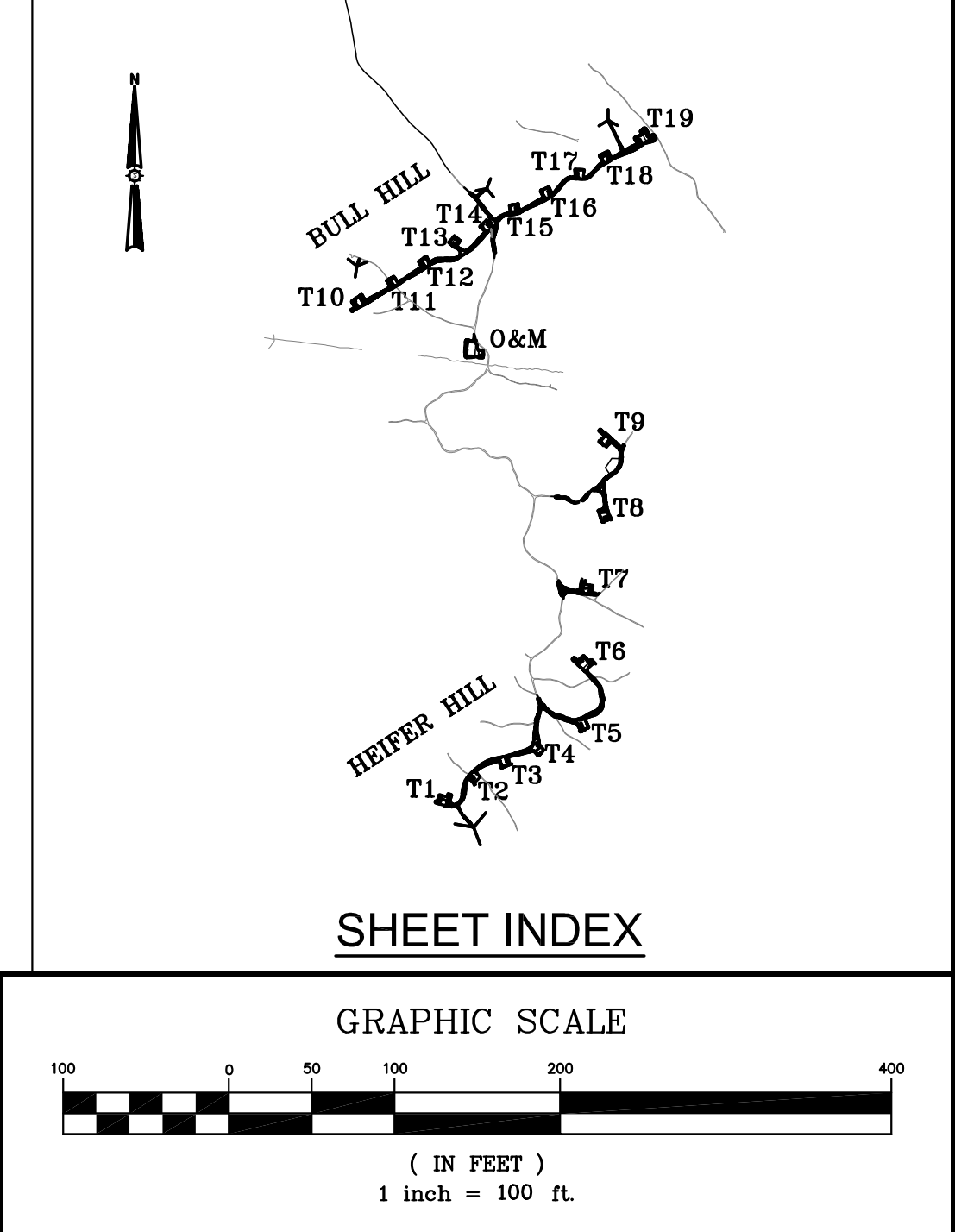
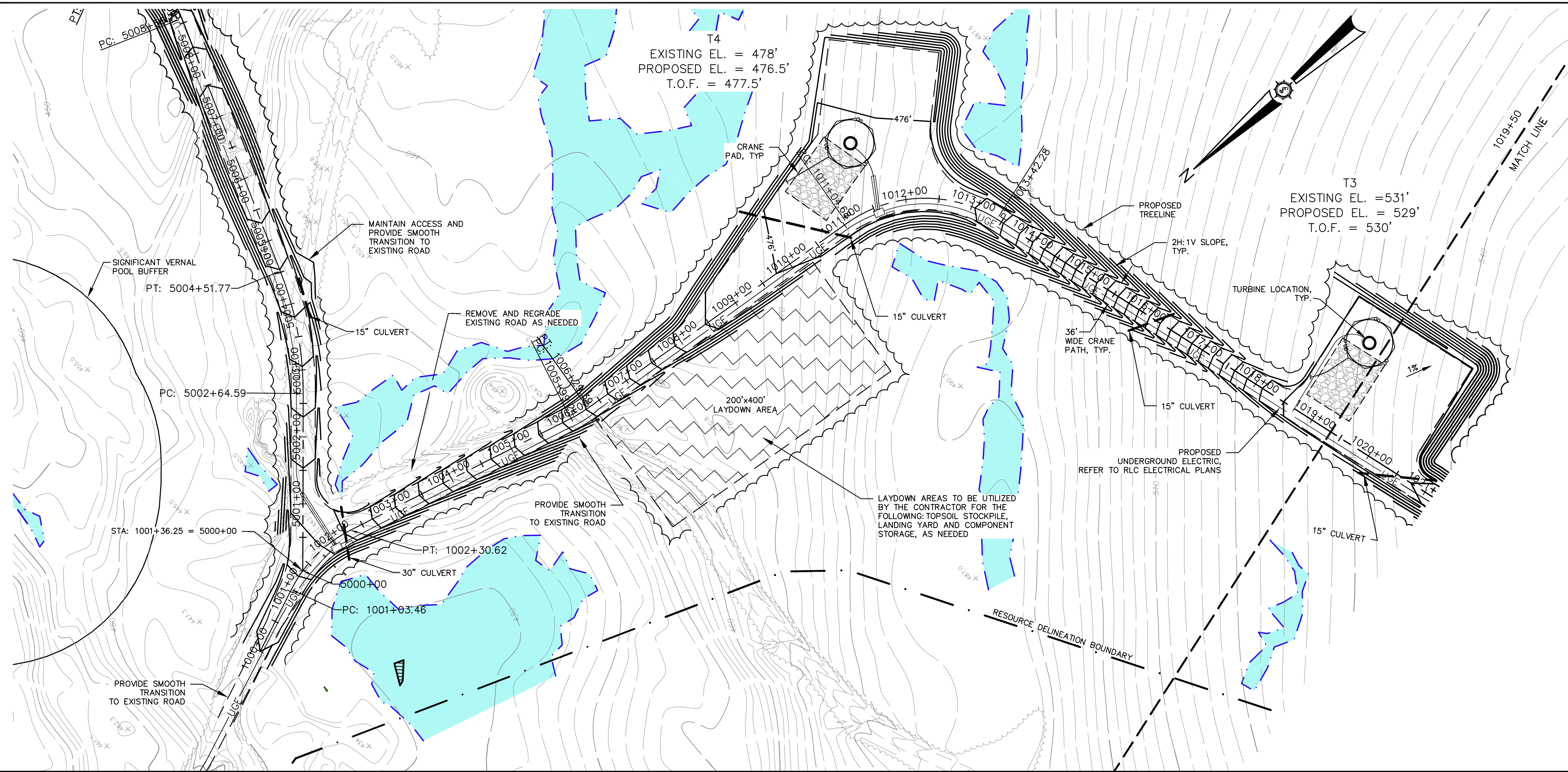
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2	JD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

Designed By	Drawn By	Checked	BOH
JMT	JLD		

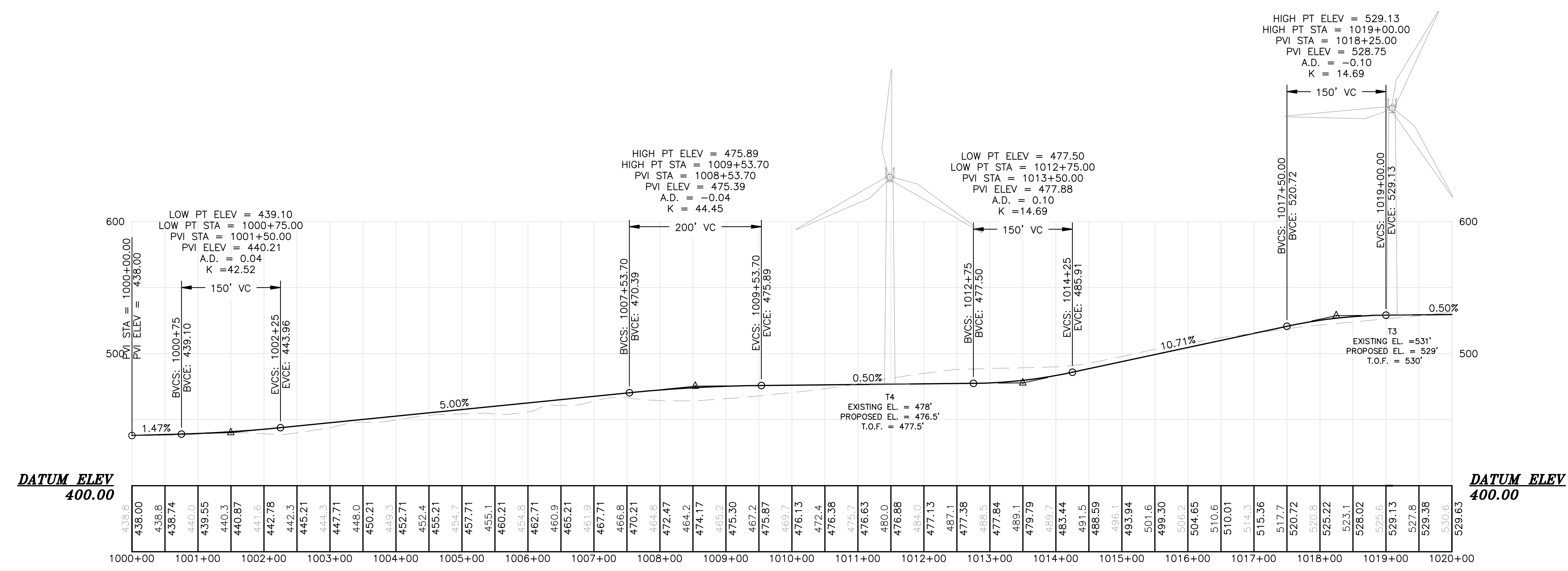
Project No.	Project Name	Project Location	Scale	Approval
74490E	BULL HILL WIND PROJECT	T16 MD. HANCOCK COUNTY	NOT TO SCALE	



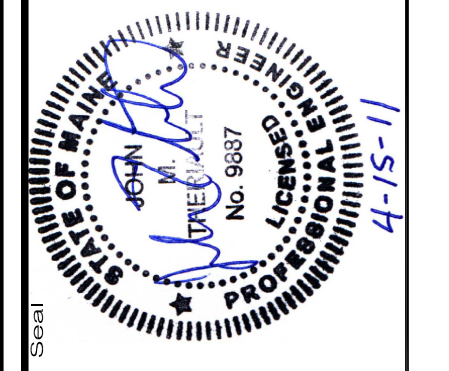
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ALIGNMENT "T1-4" - CRANE PATH
(1000+00 TO 1020+00 CRANE PATH)



Project No.	74490E
Project Location	T16MD
Drawing Description	PLAN / PROFILE
Drawn By	JLD
Checked By	BOH
Scale	H: 1"=100', V: 1"=50'
Revision	1
Revision	2
Revision	3
Revision	4
Revision	5
Revision	6
Revision	7
Revision	8
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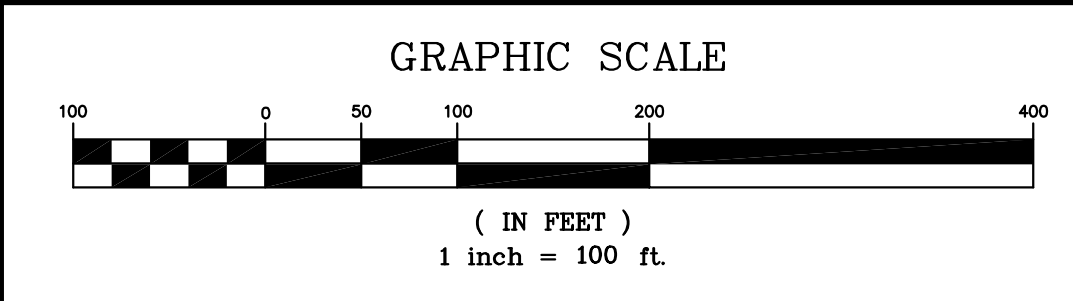
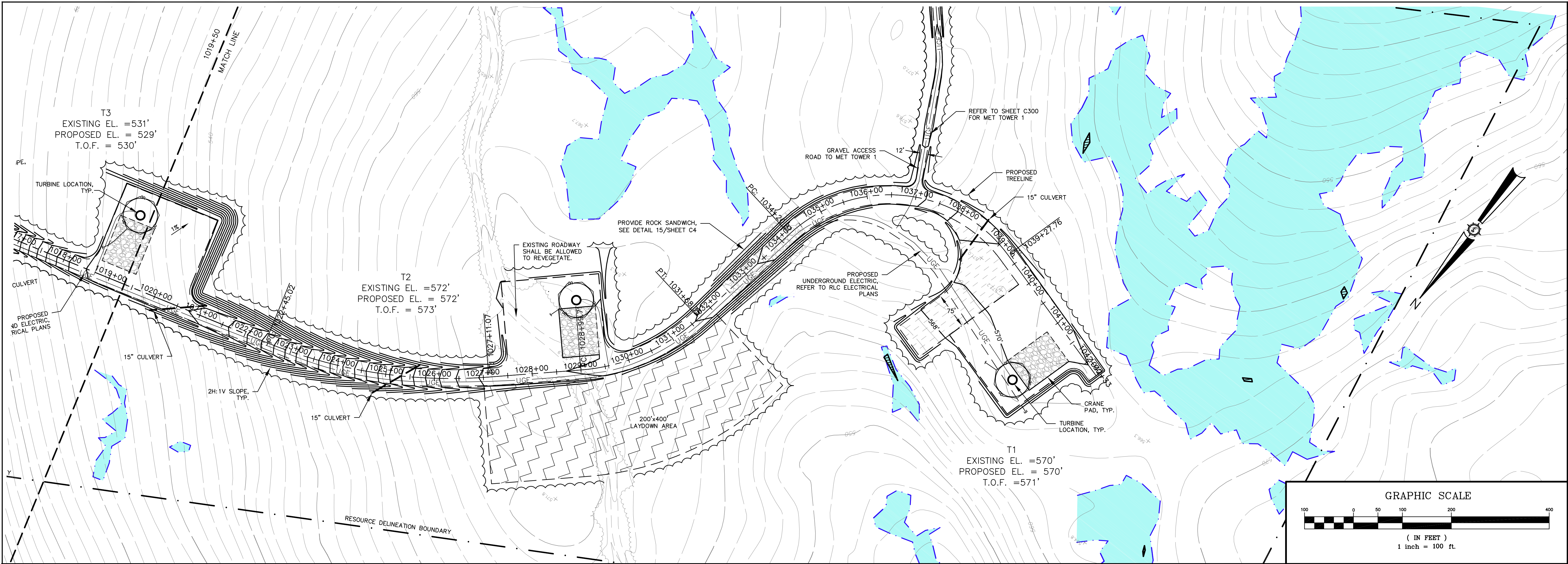


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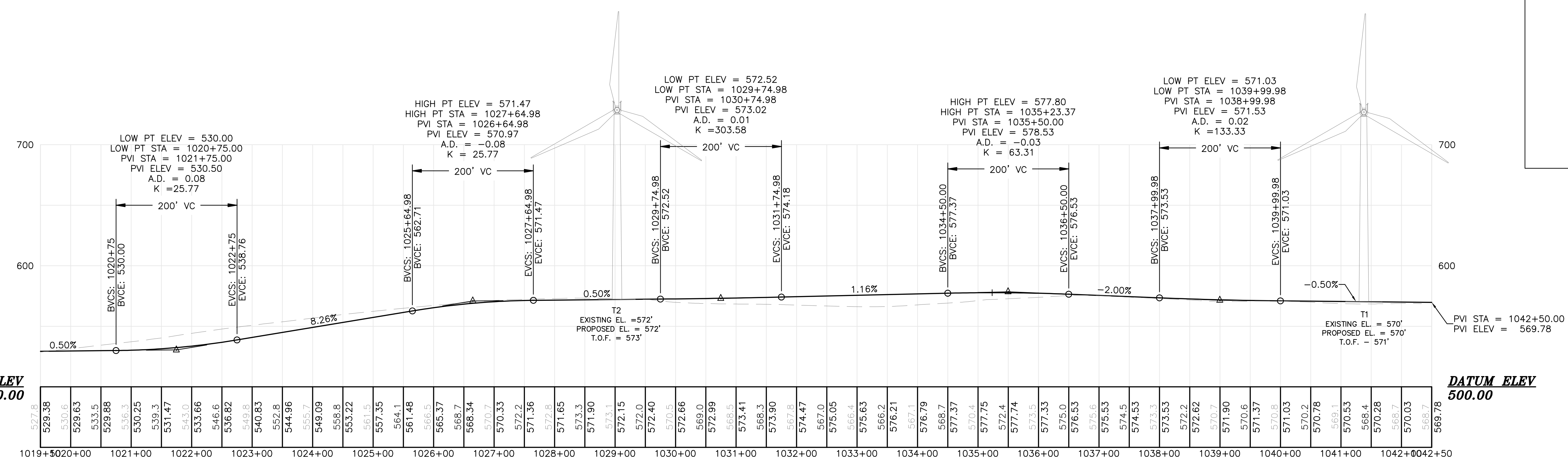
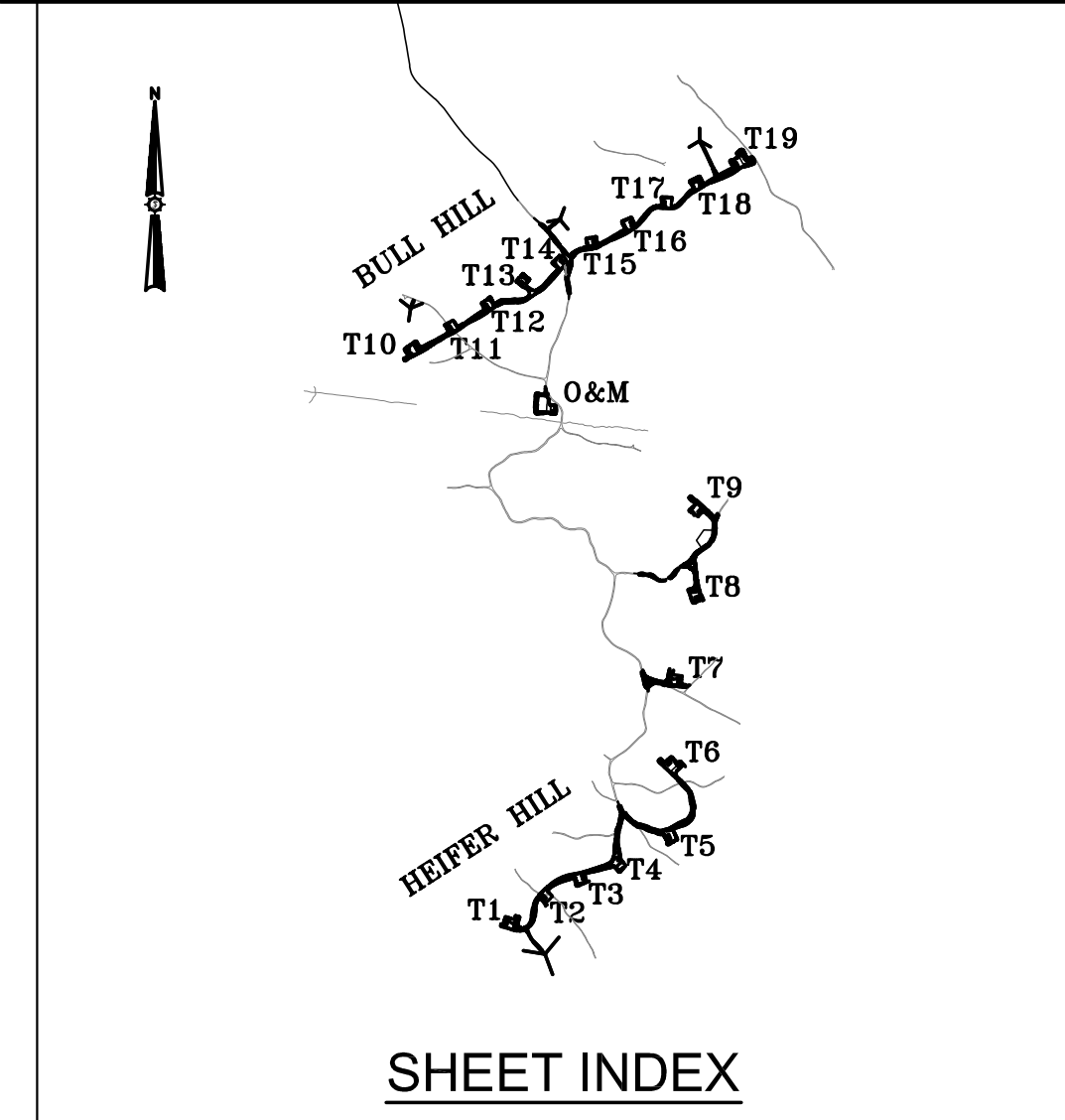
74490E

PERMIT

C100



ALIGNMENT "T1-4" - CRANE PATH
(1019+50 TO END CRANE PATH)

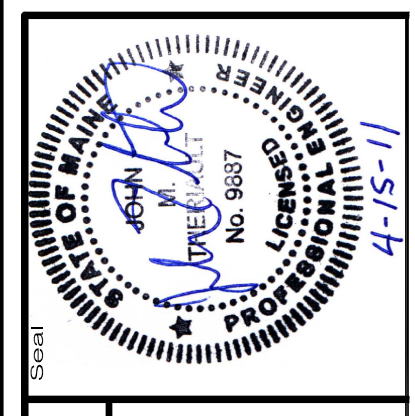


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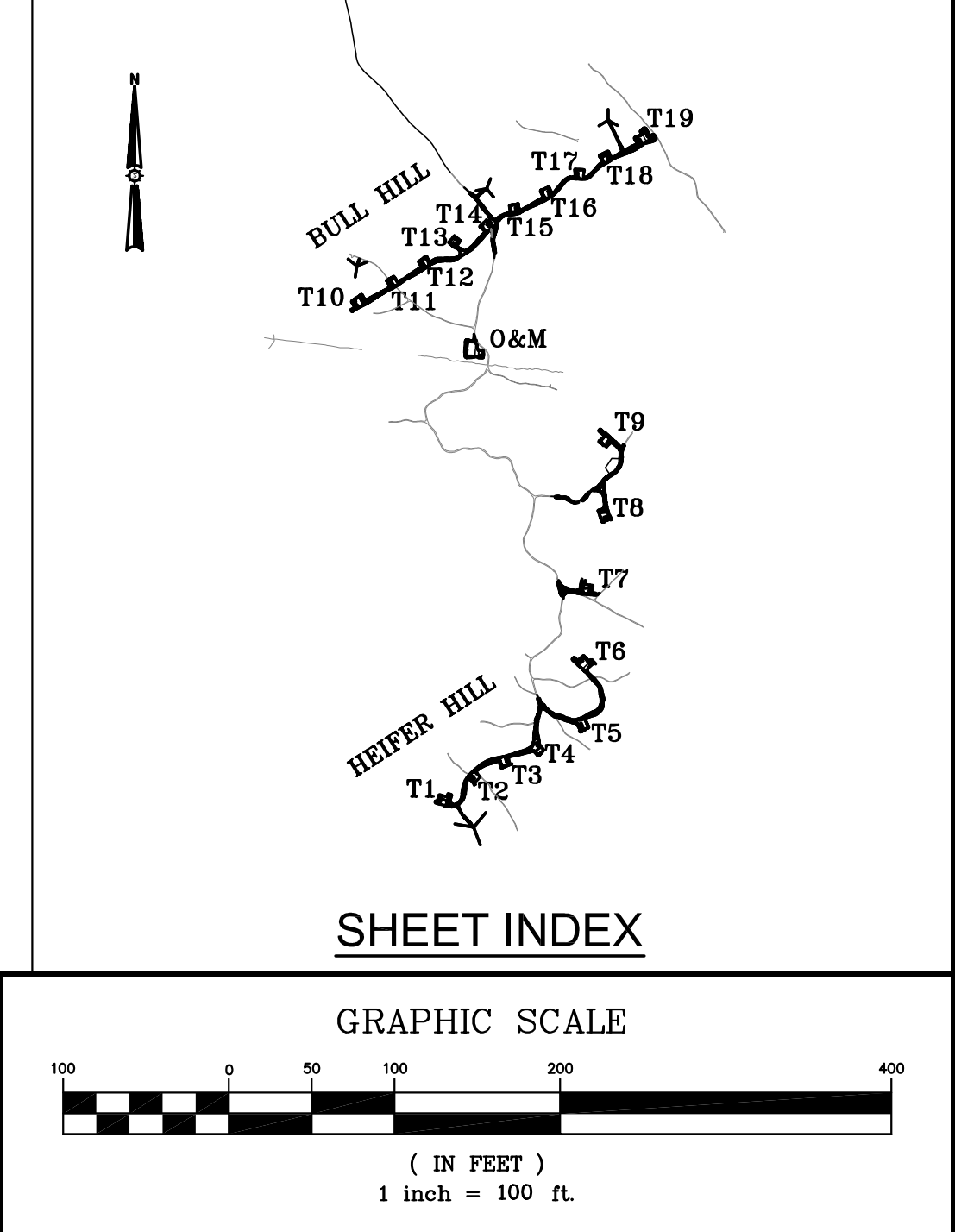
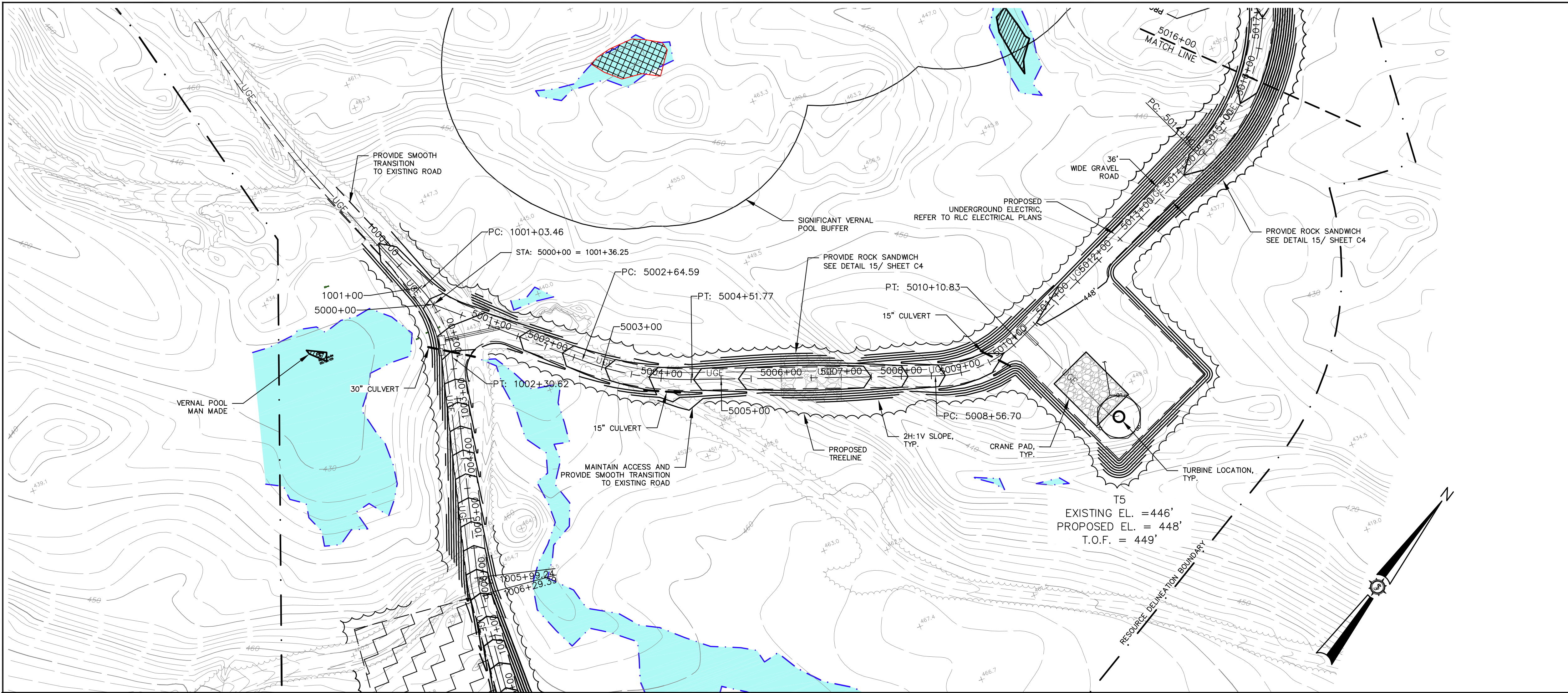
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MT	JLD	1/25/11
JD		4/15/11

Project Location	Project Description
T16MD	PLAN / PROFILE

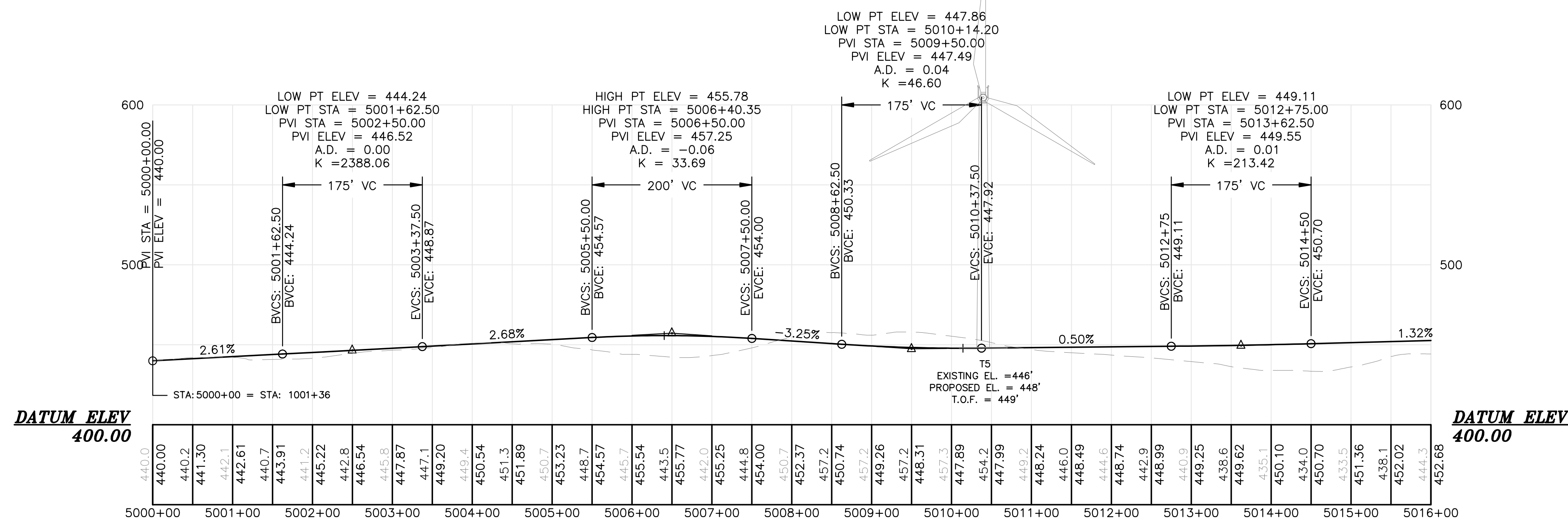


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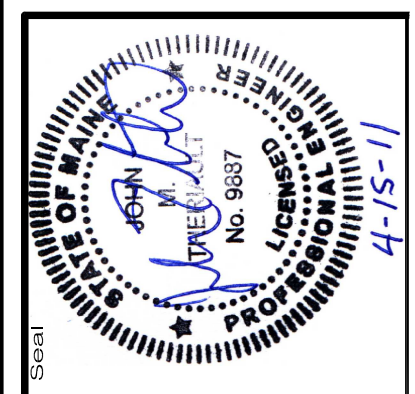


ALIGNMENT "T5-6" - CRANE PATH
(5000+00 TO 5016+00 CRANE PATH)



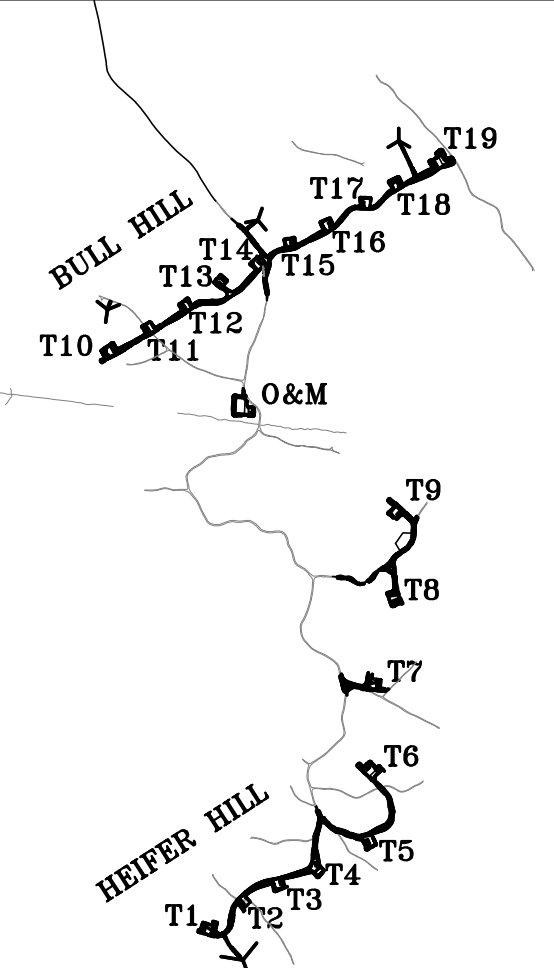
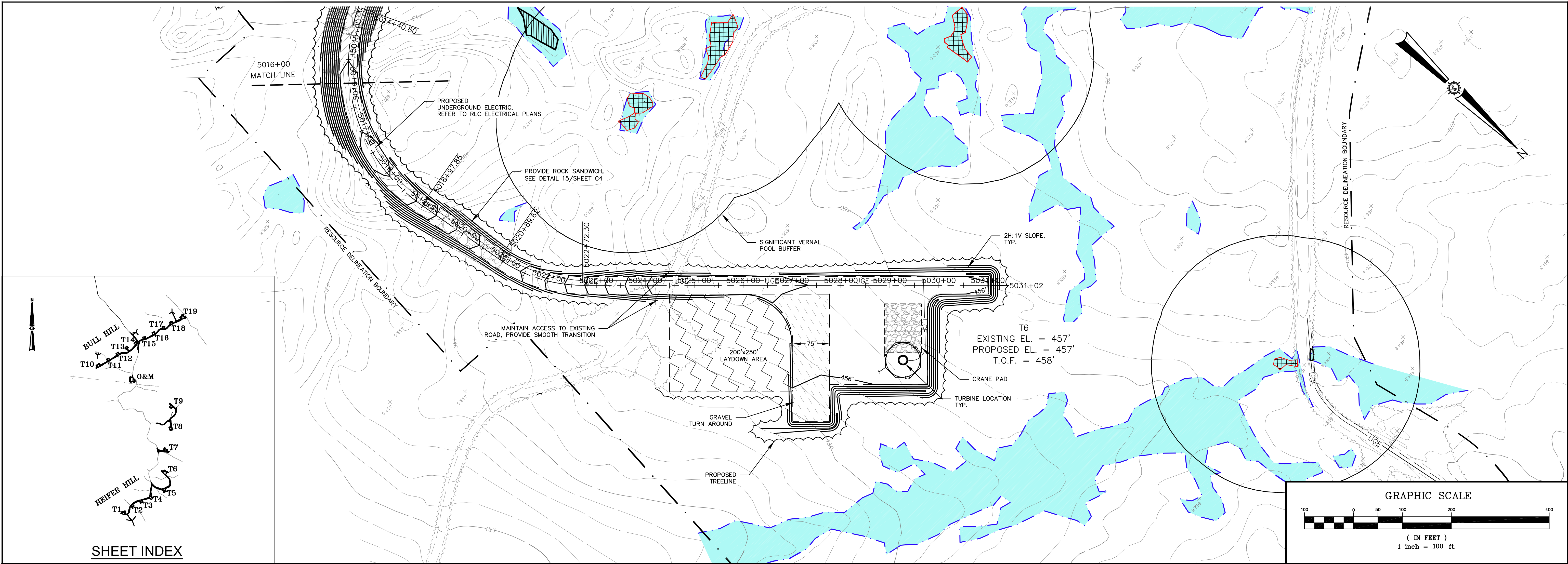
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JMT	JLD	1/25/11
JLD	JLD	4/15/11

Project Location	Project No.	Scale	Sheet No.
T16MD	74490E	H: 1"=100', V: 1"=50'	1



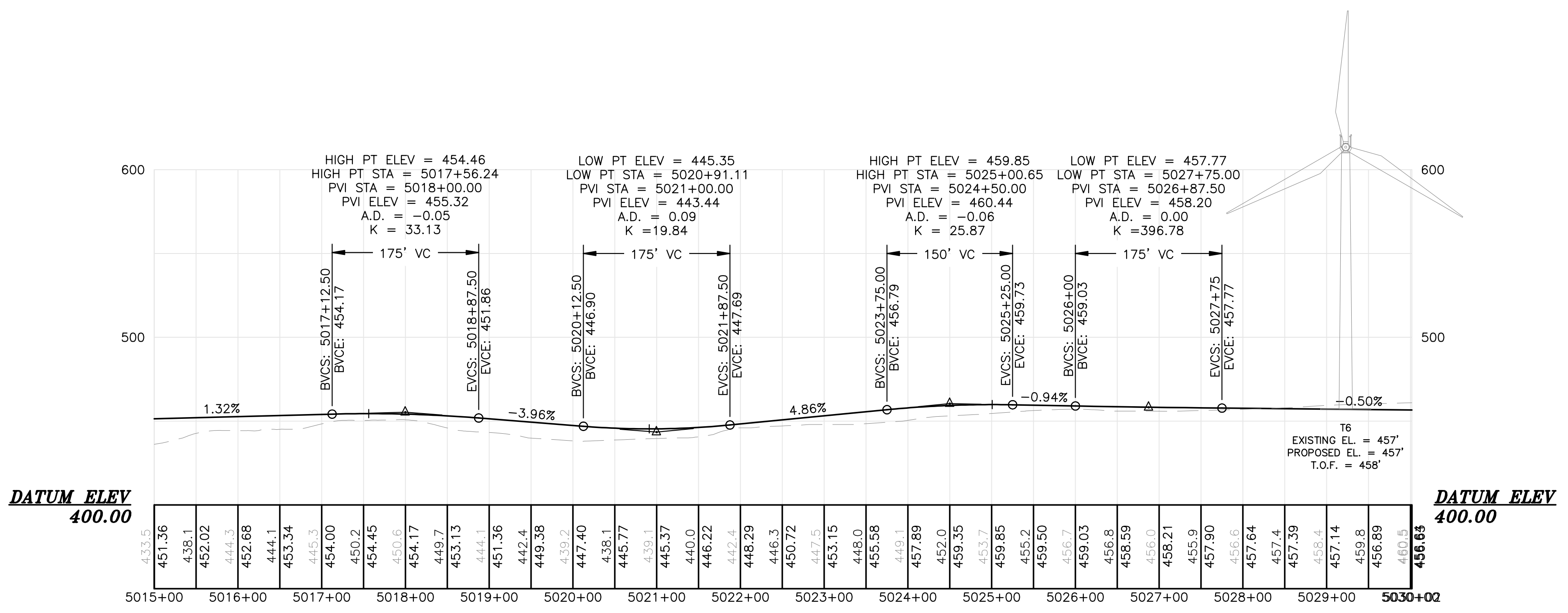
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SHEET INDEX

ALIGNMENT "T5-6" - CRANE PATH
(5015+00 TO END CRANE PATH)



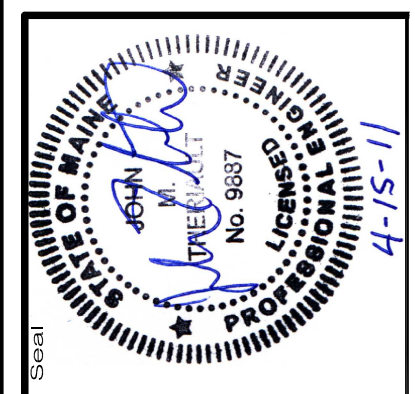
Rev. No.	Drawn By	Description	Date
1	MT	REVISED PER LURC COMMENTS DATED 01/18/11	1/25/11
2	JD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

BULL HILL WIND PROJECT

Drawn By: JLD
 Checked: BOH

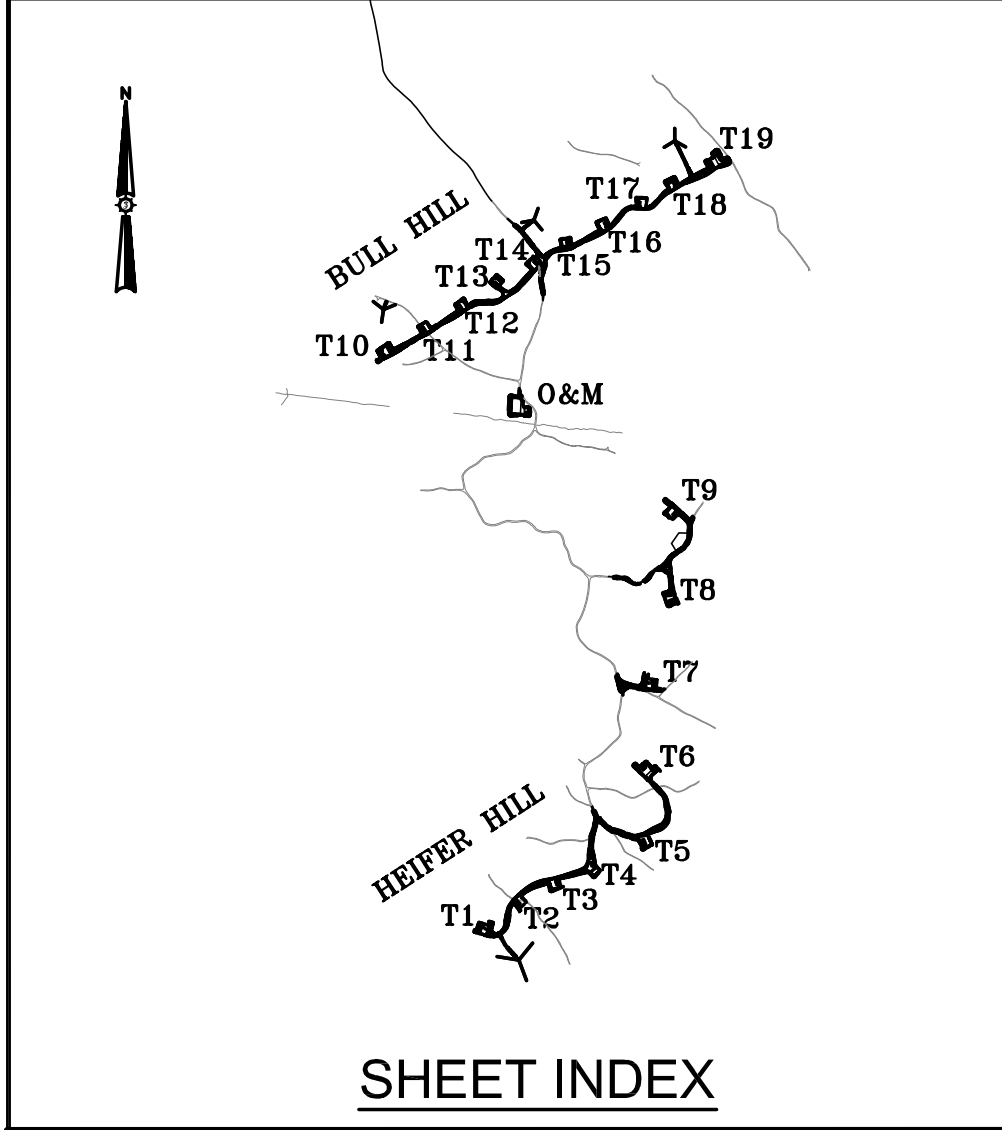
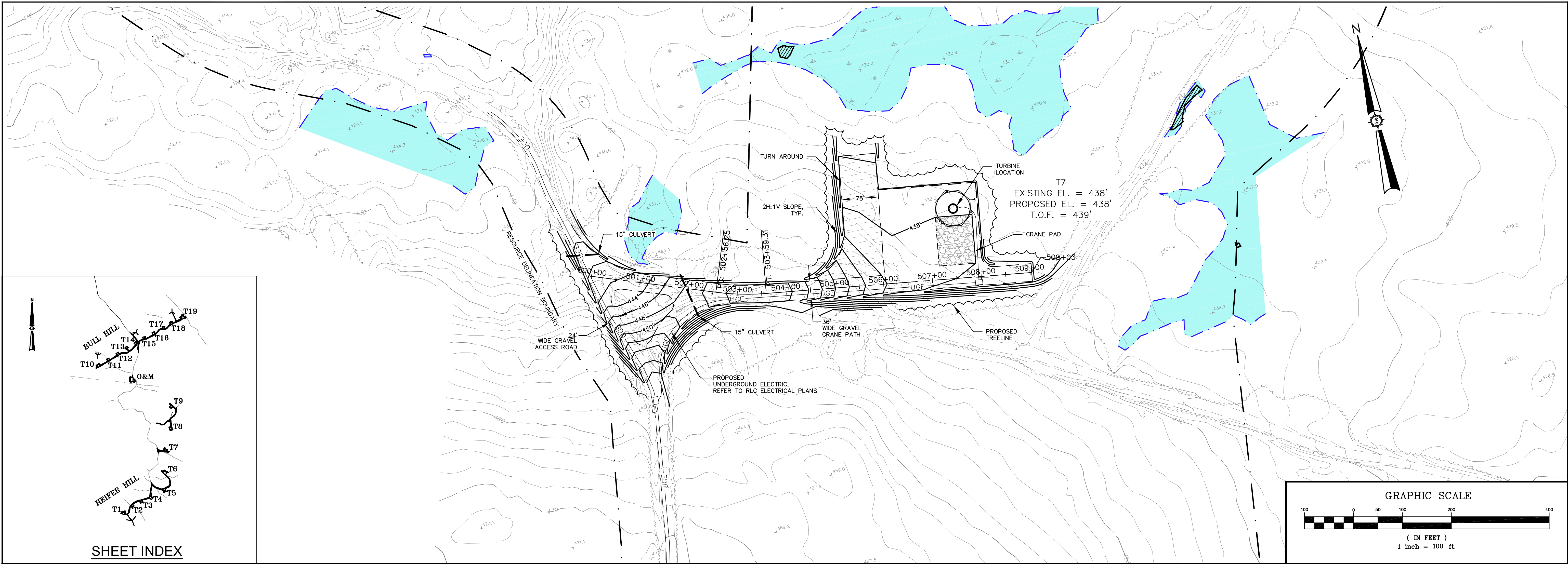
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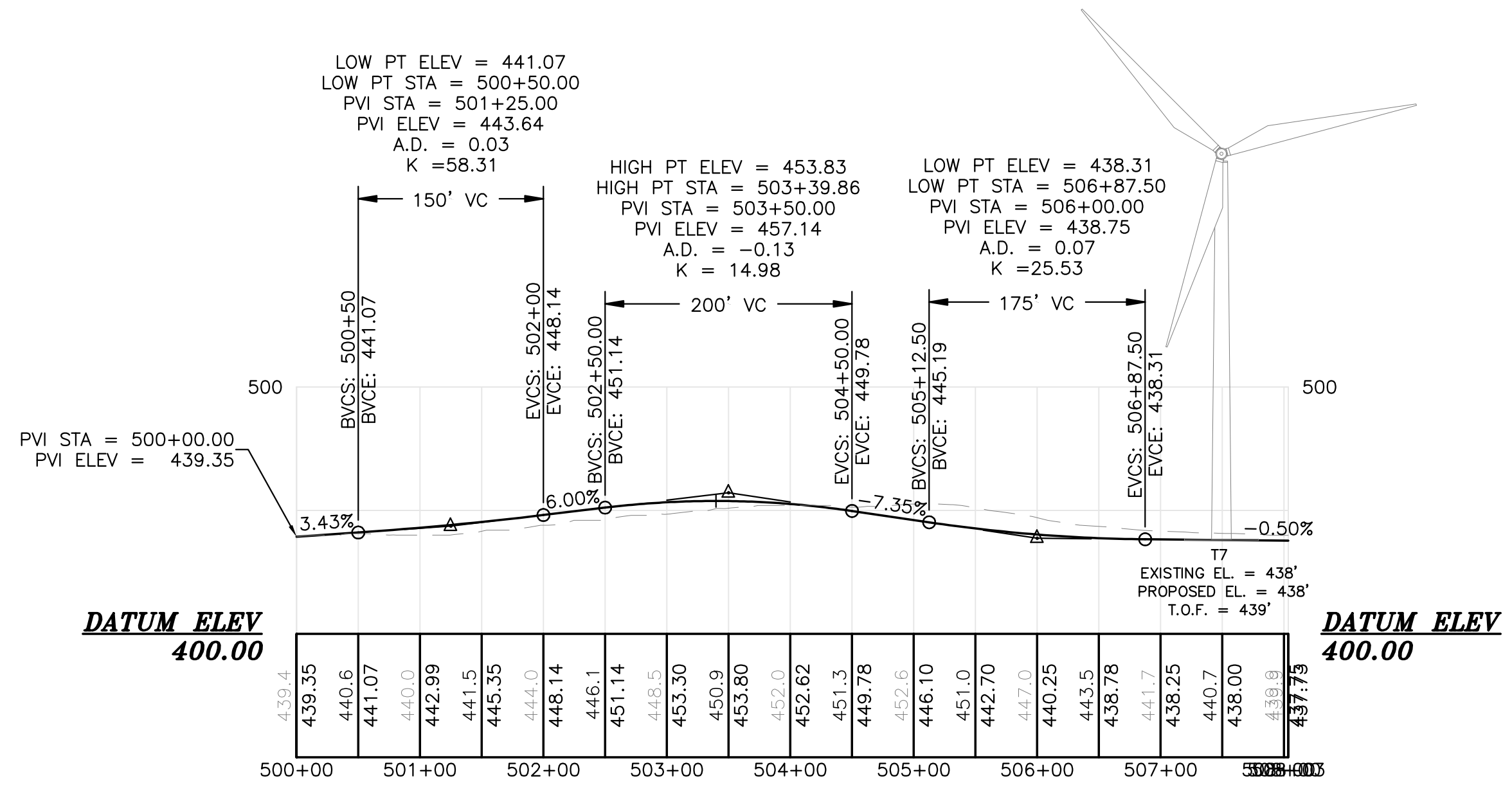
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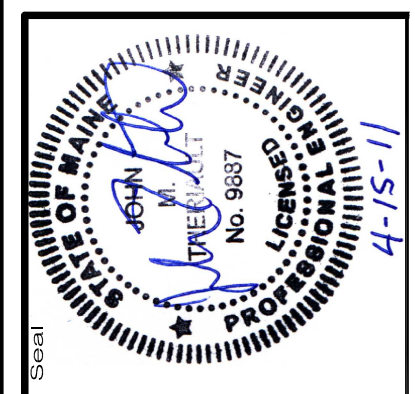
SHEET INDEX

ALIGNMENT "T7" - CRANE PATH
(500+00 TO 509+03 CRANE PATH)



Rev. No.	Drawn By	Description	Date
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2	JD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

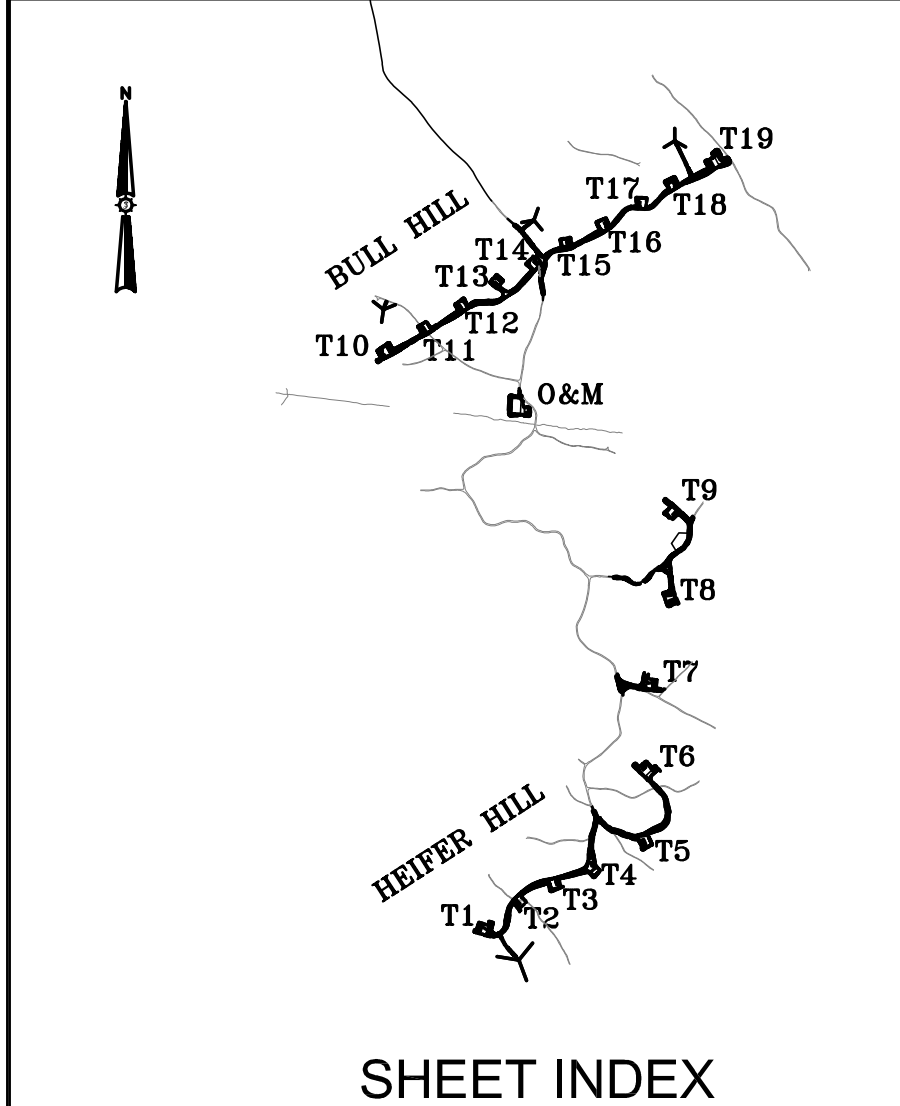
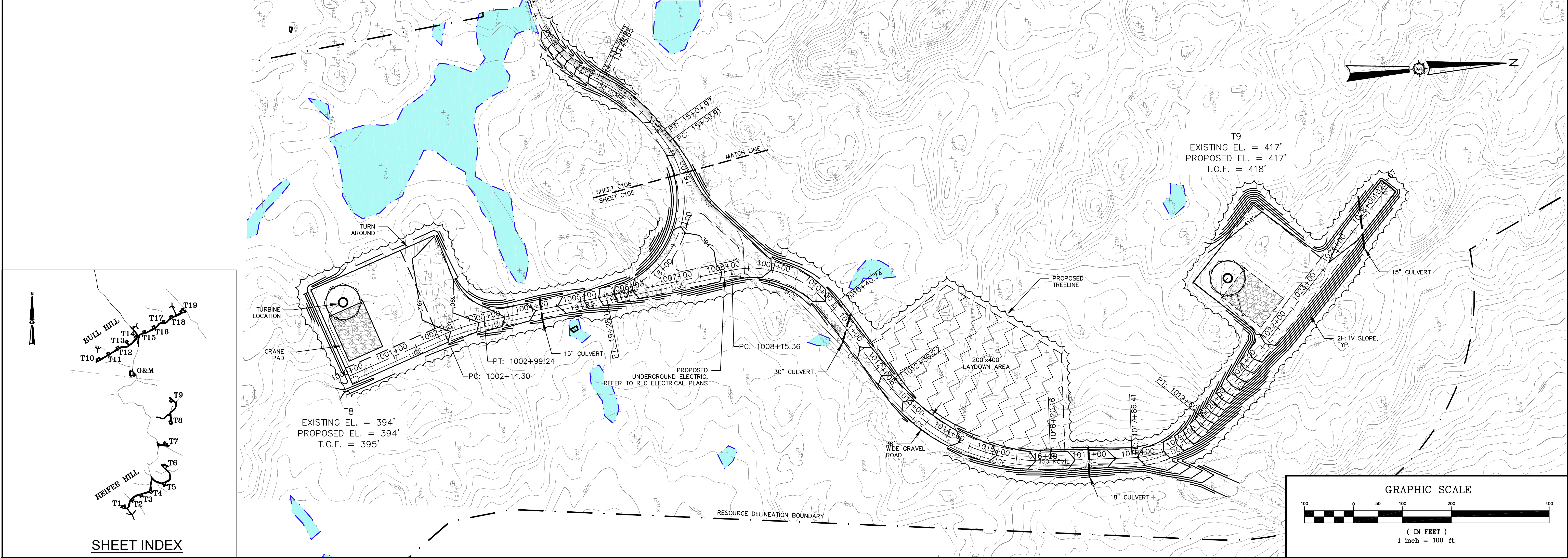
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Drawing Description	PLAN / PROFILE
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Checked By	BOH



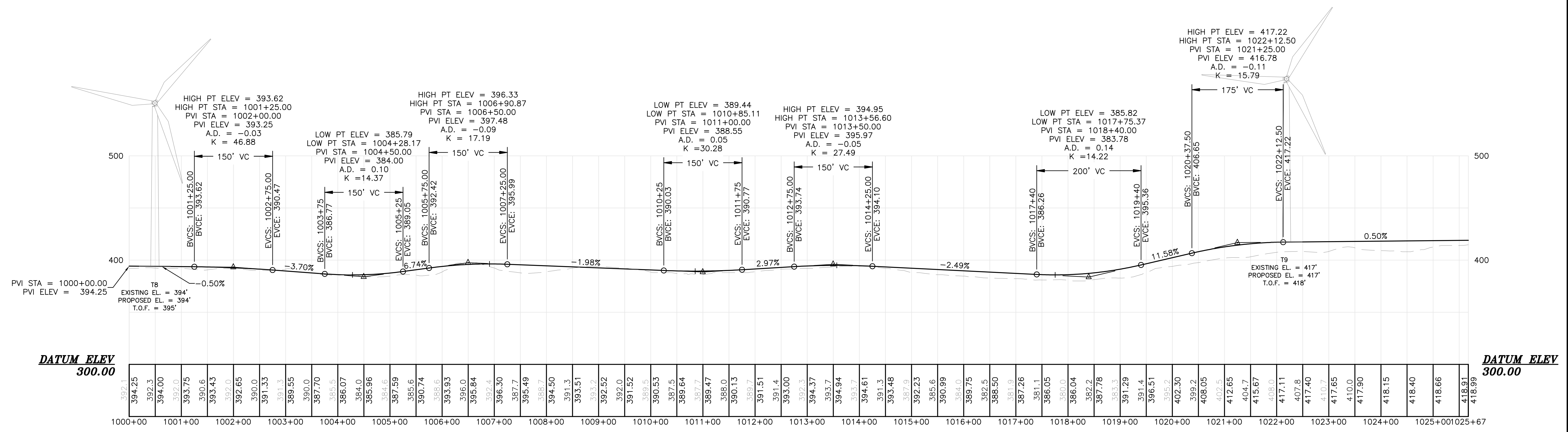
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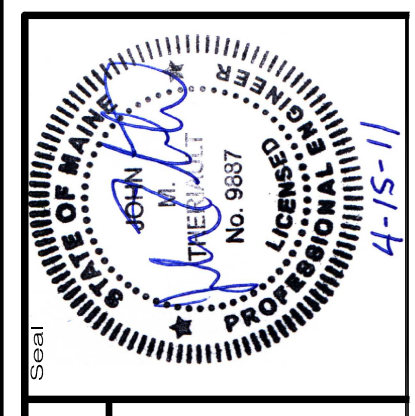


ALIGNMENT "T8-9" - CRANE PATH
(1000+00 TO 1025+67 CRANE PATH)



Rev.	Drawn By	Checked By	Date
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2	JLD		4/15/11

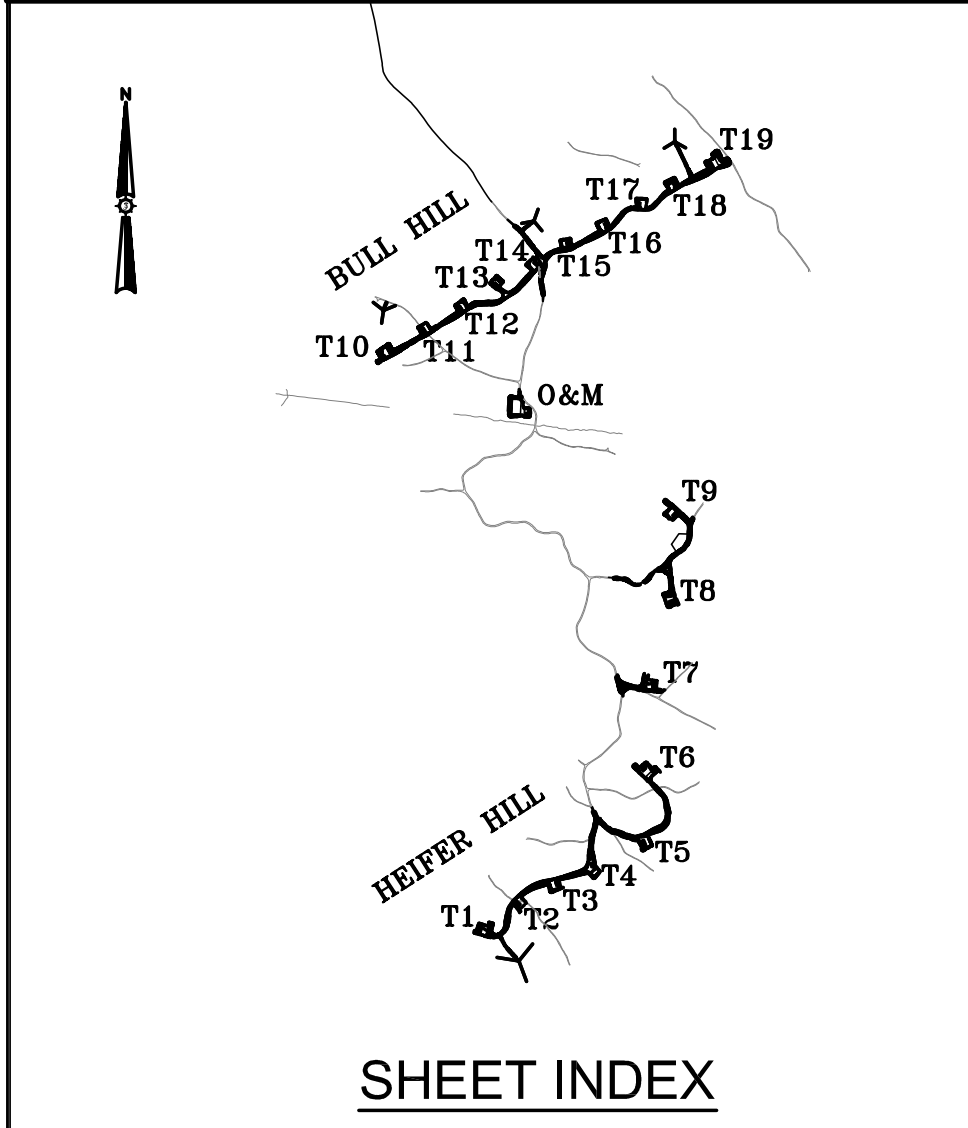
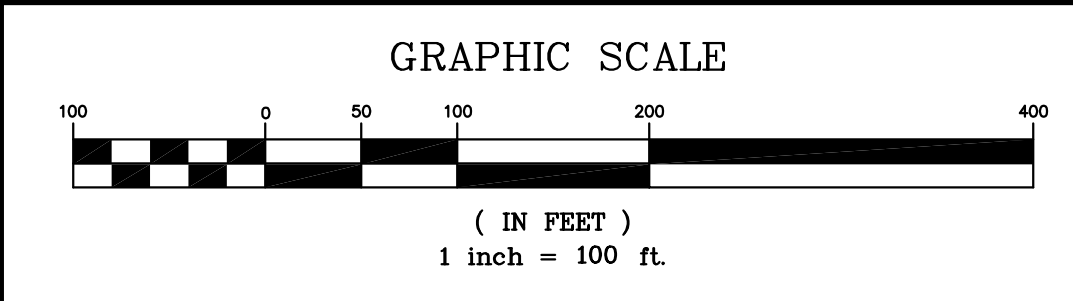
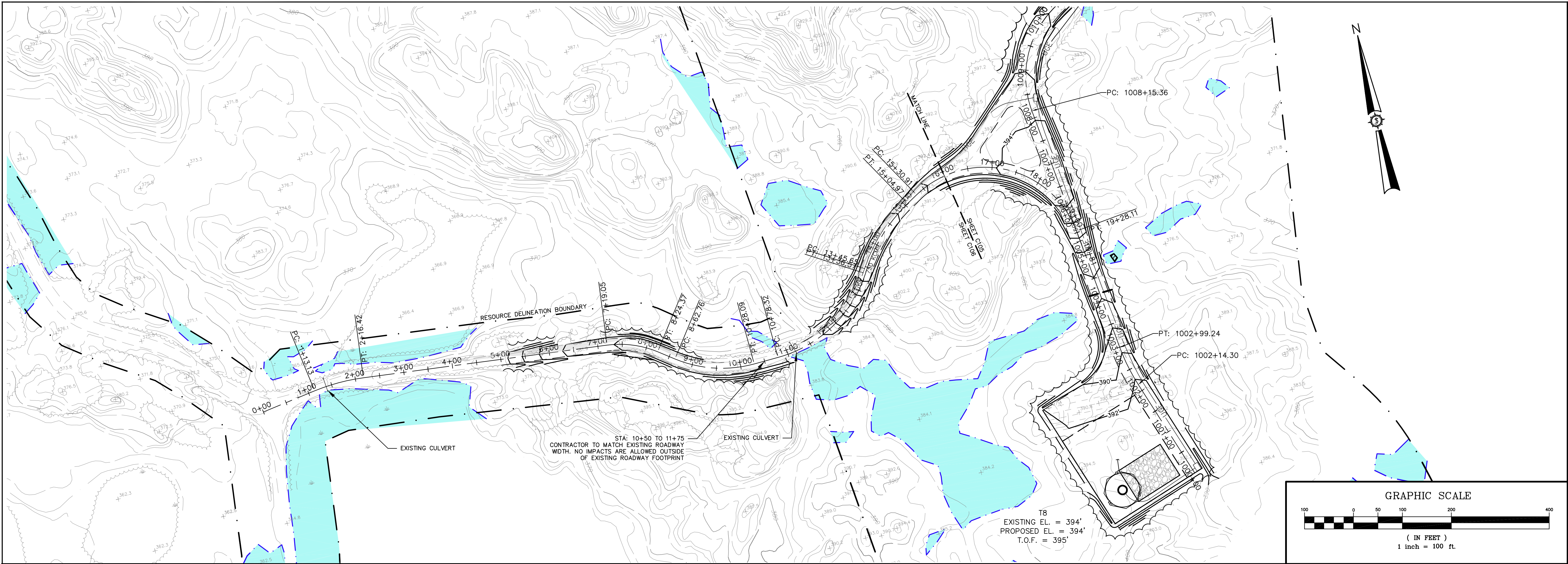
BULL HILL WIND PROJECT	
Drawn By: JLD	Checked By: BOH
Scale: H: 1"=100', V: 1"=50'	Project Location: T16MD
Project Description: PLAN / PROFILE	Drawing Description: T16MD



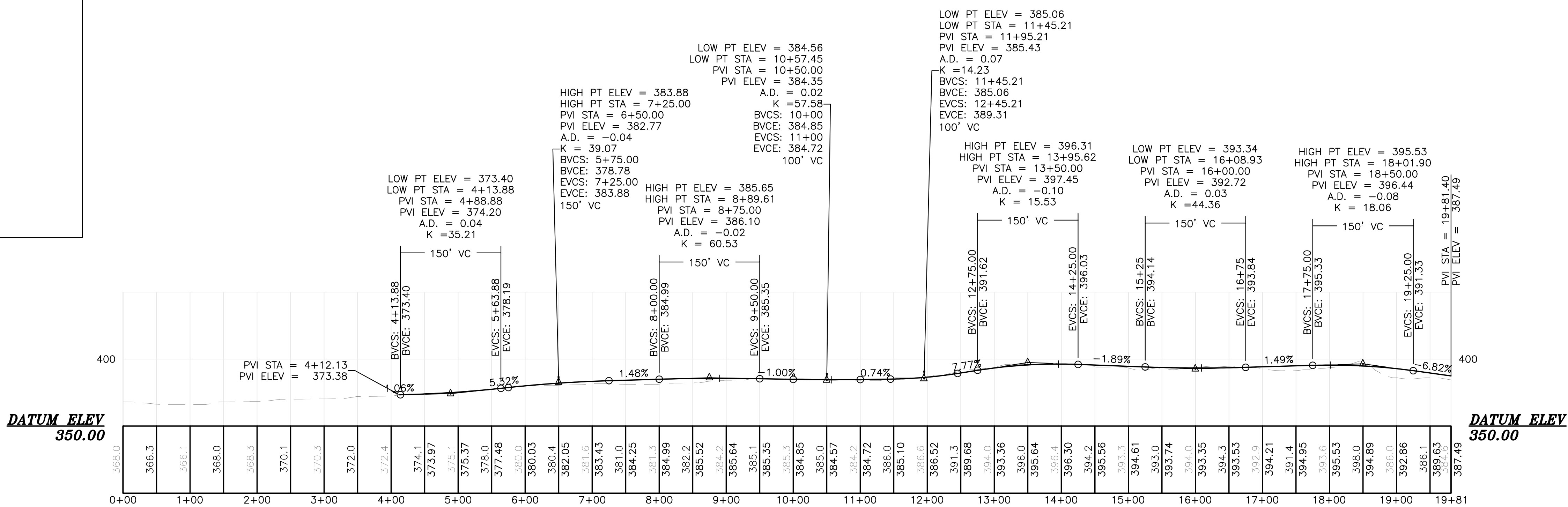
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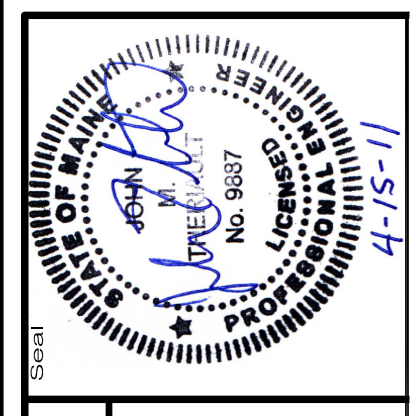


ALIGNMENT "YELLOW GATE ROAD" - ACCESS ROAD
(0+00 TO 19+81 ACCESS ROAD)



Drawn By	Checked By	Date
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JLD	JLD	4/15/11

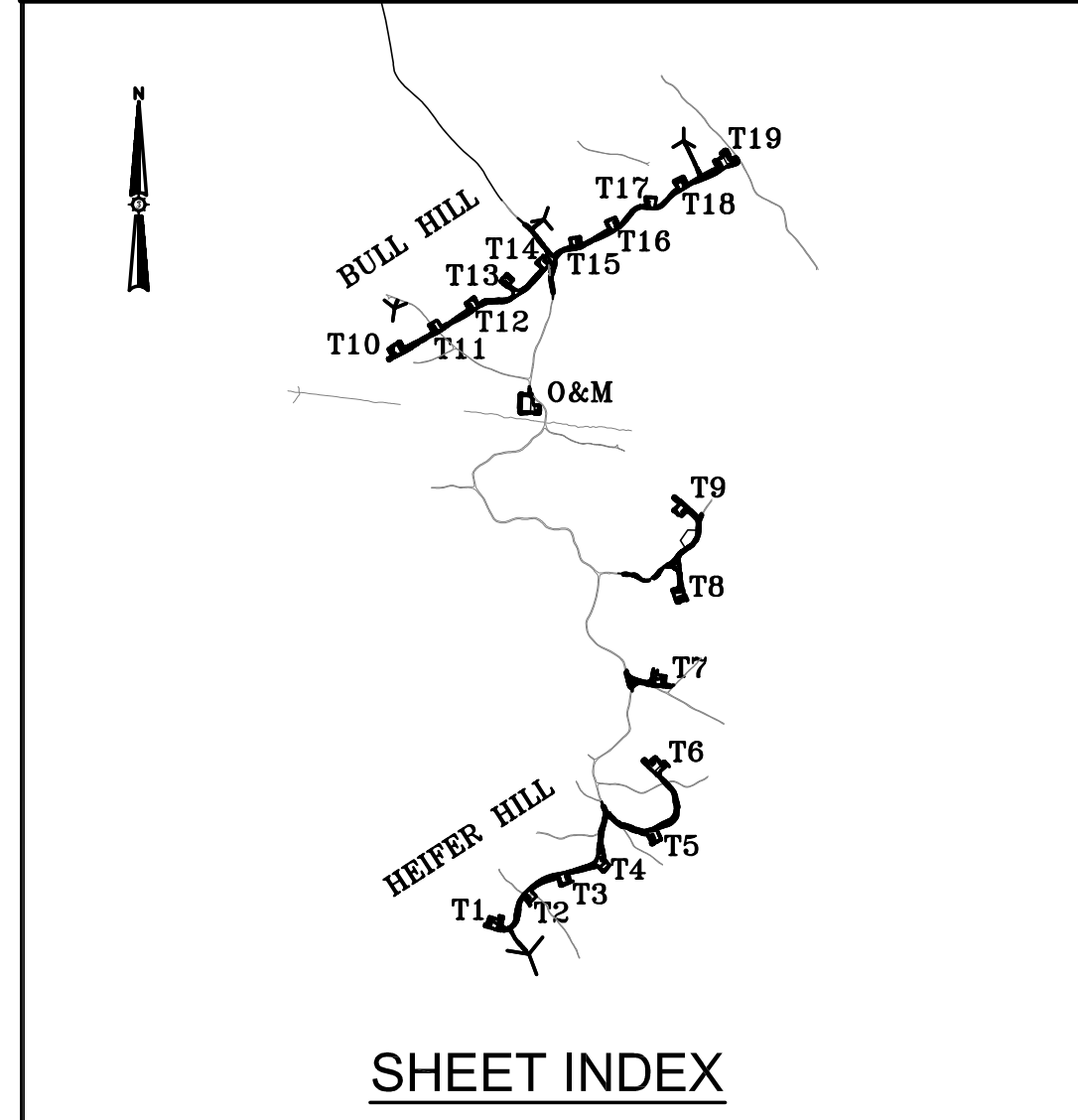
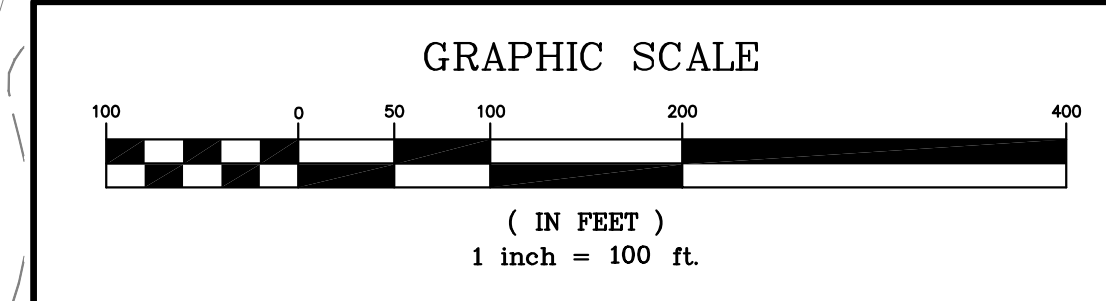
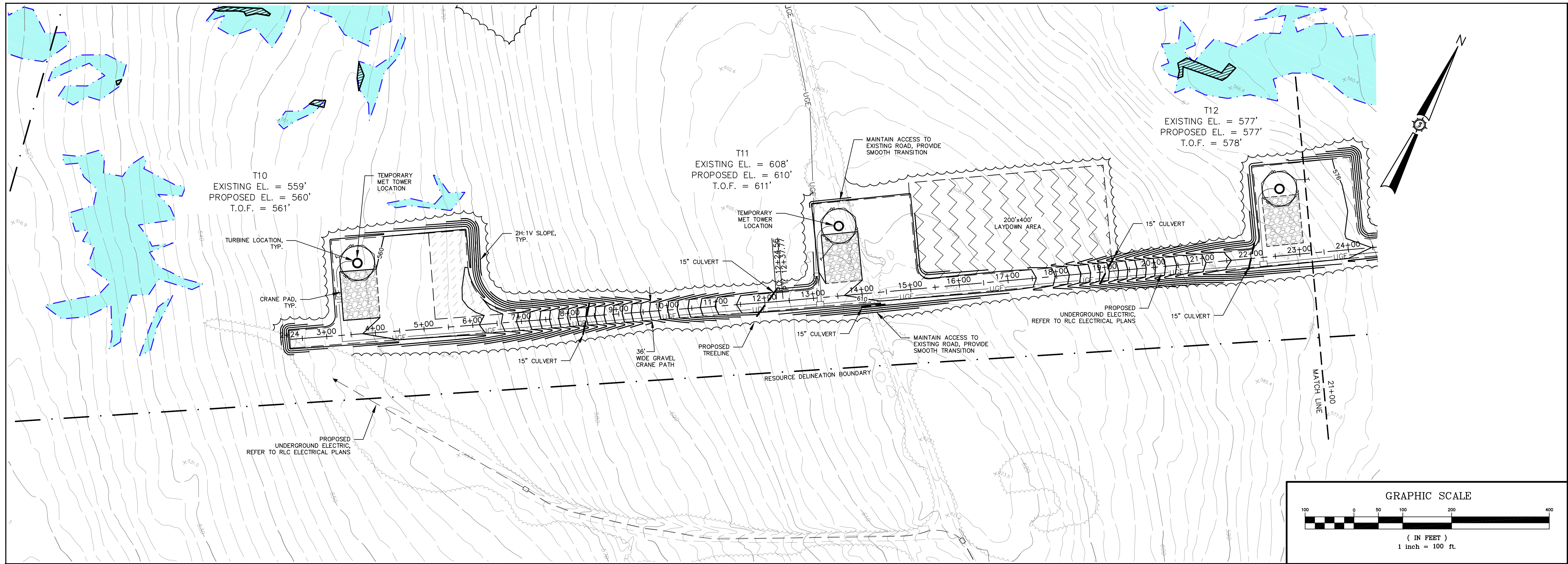
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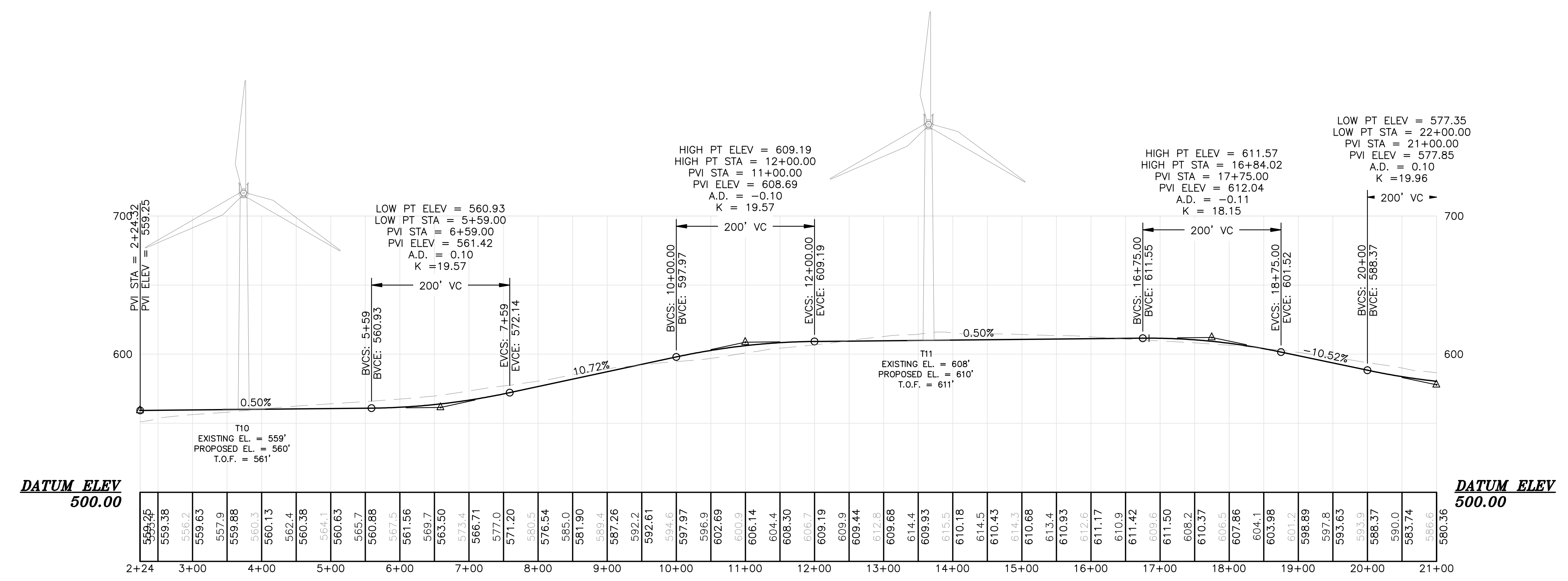
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ALIGNMENT "NORTH STRING - T10-T19" - CRANE PATH
(0+00 TO 21+00 CRANE PATH)

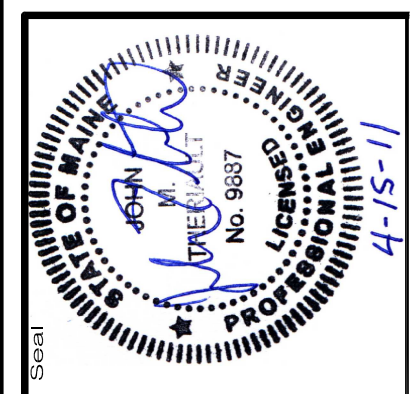


DATUM ELEV
500.00

DATUM ELEV
500.00

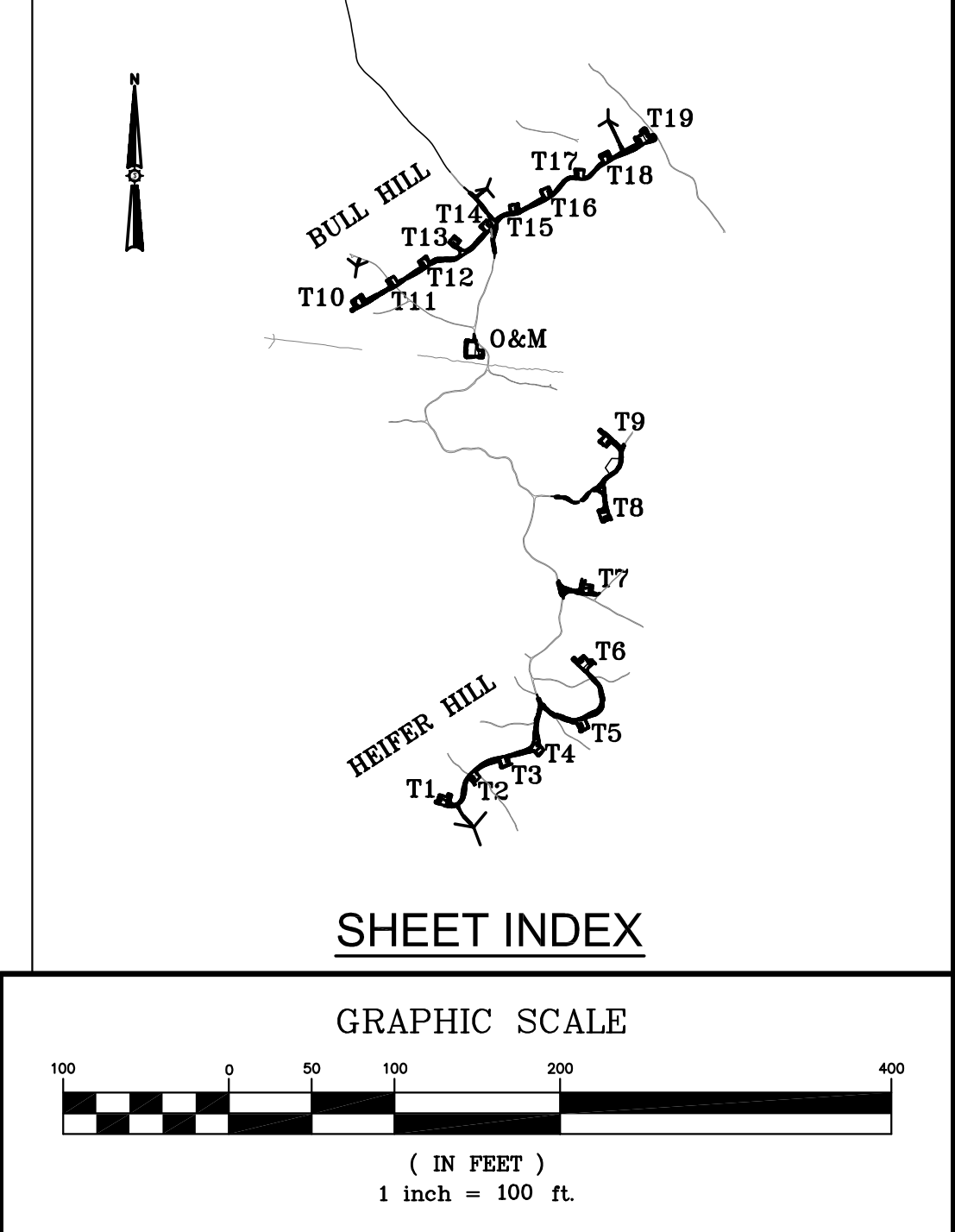
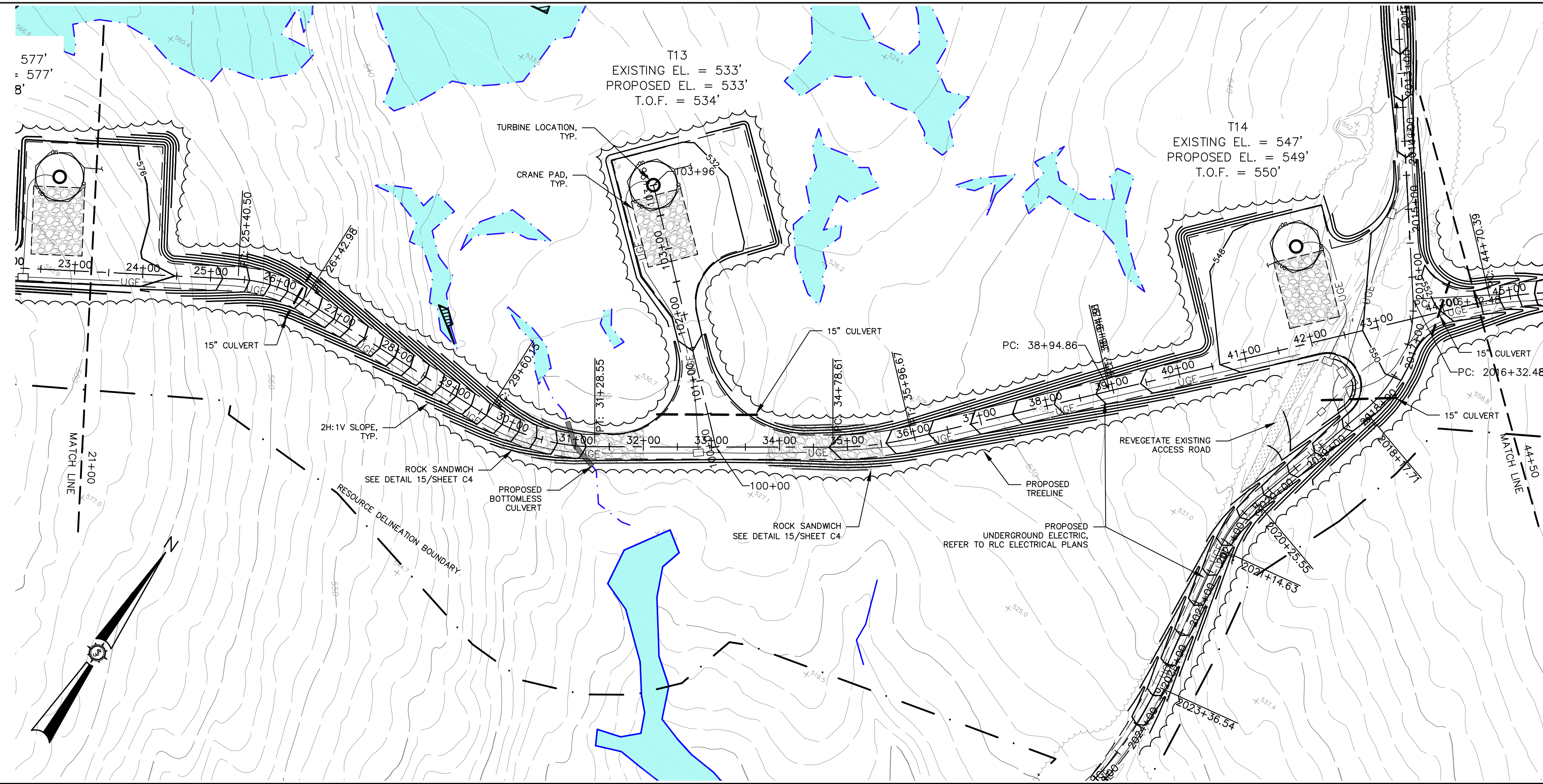
Drawn By	Checked By	Date
MT	REVISED PER LURC COMMENTS DATED 01/18/11	1/25/11
JD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

Project Location	T16MD
Drawing Description	PLAN / PROFILE
Scale	H: 1"=100'; V: 1"=50'
Drawn By	JLD
Checked By	BOH

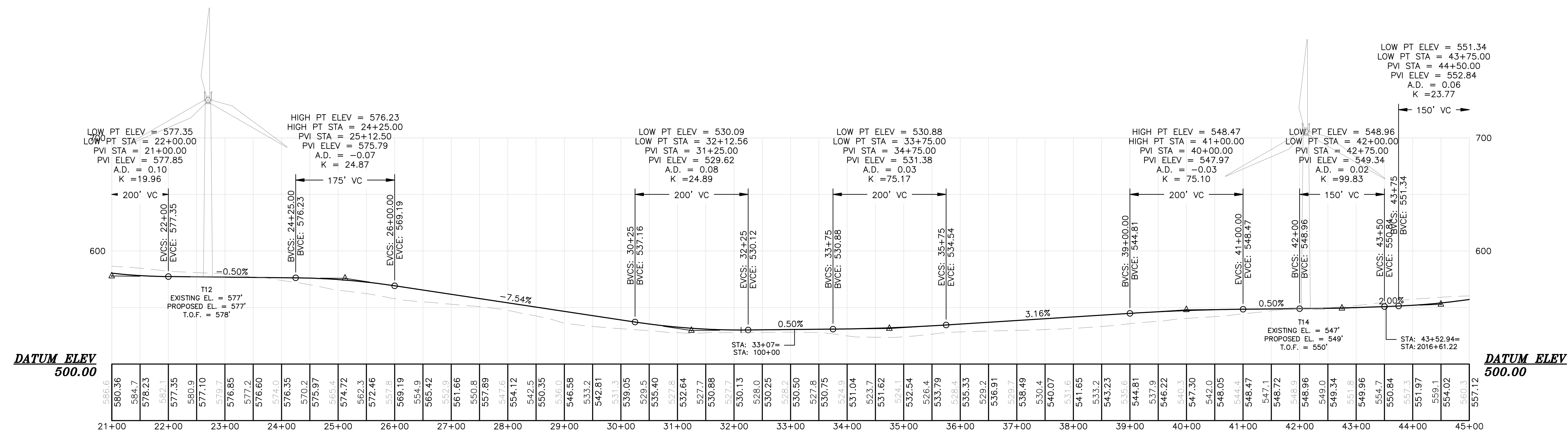


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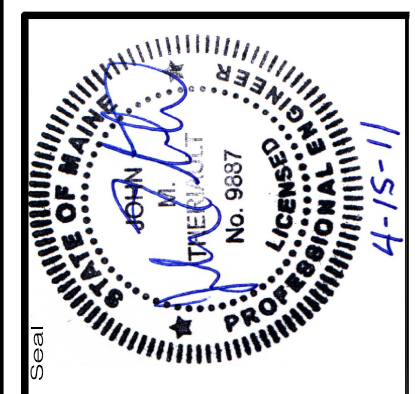


ALIGNMENT "NORTH STRING - T10-T19" - CRANE PATH
(21+00 TO 45+00 CRANE PATH)



Drawn By	Checked By	Date
MT	JD	1/25/11
JD	MT	4/15/11

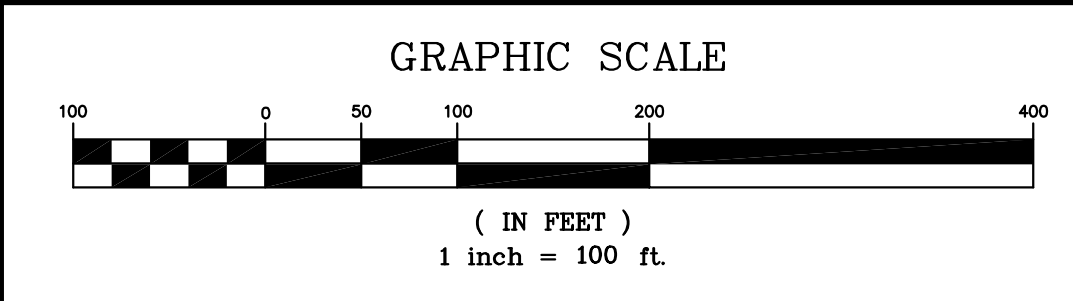
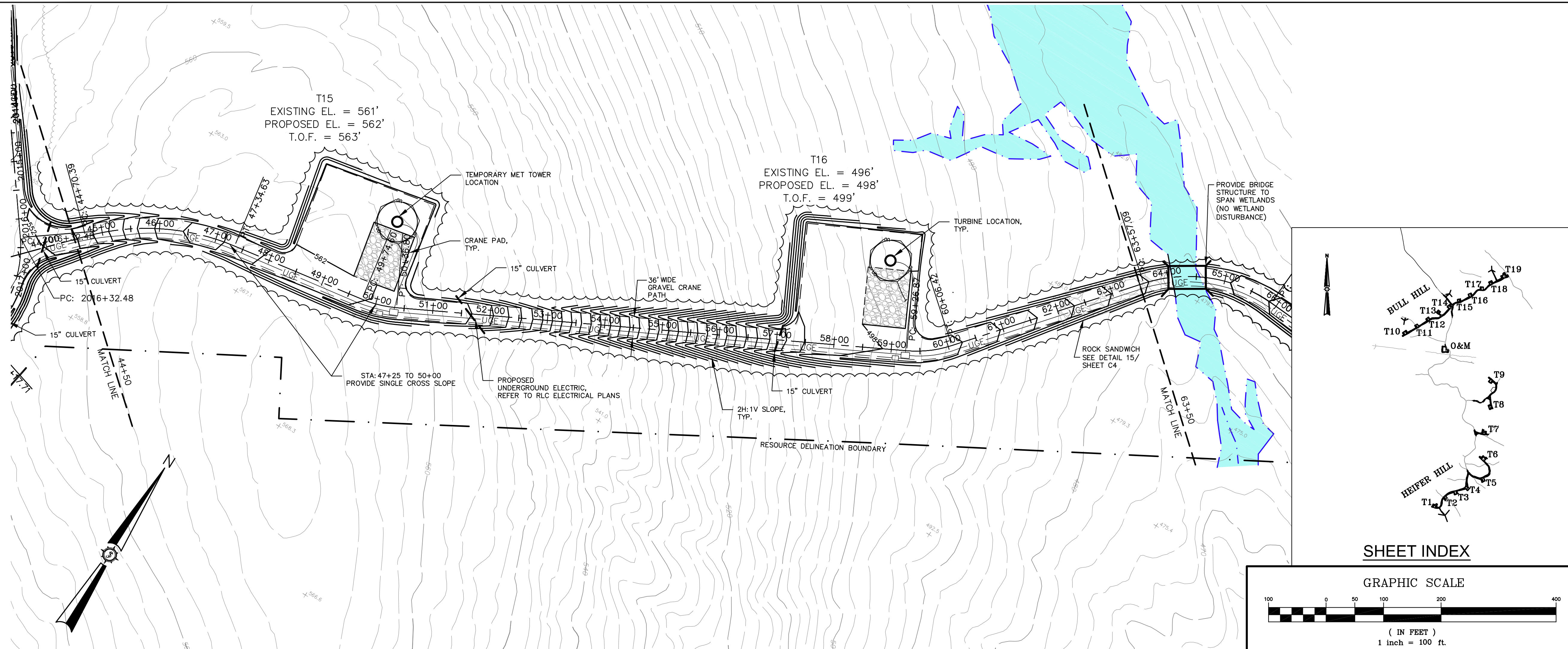
Project Location	Project No.	Scale	Checked
T16MD	112410	H: 1"=100', V: 1"=50'	BOH



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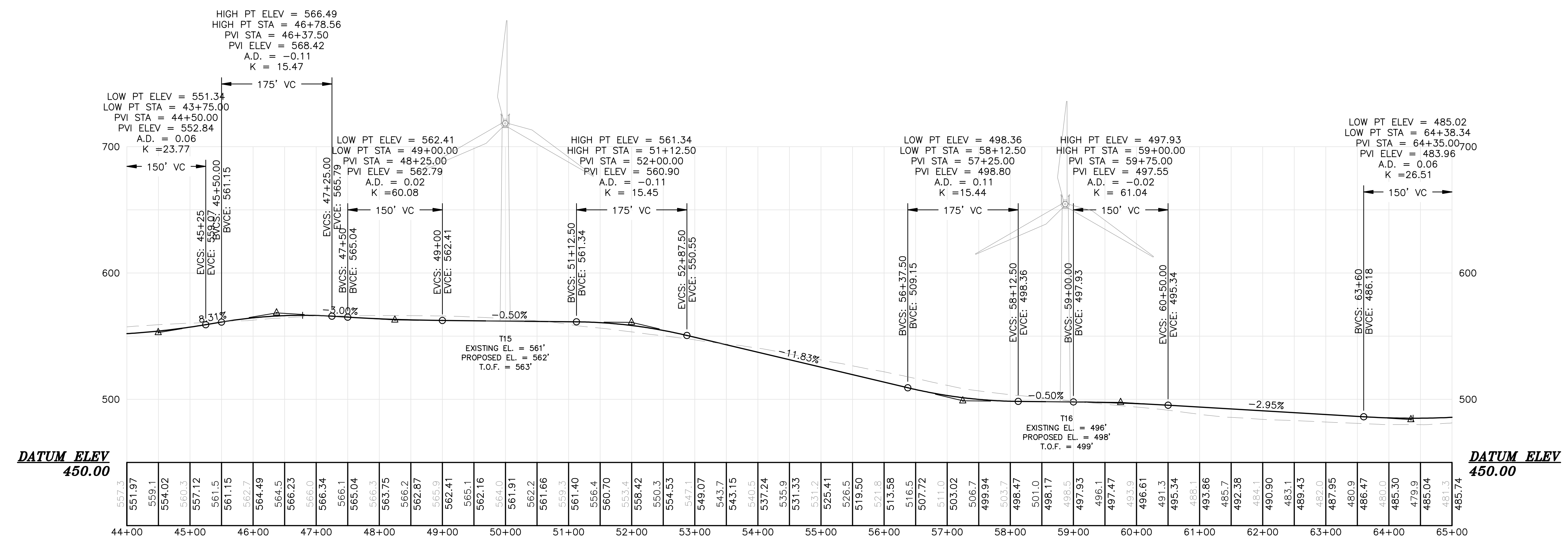
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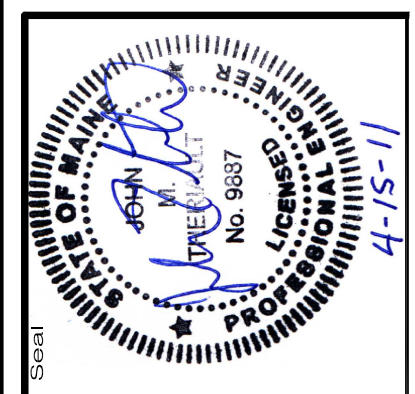
SHEET INDEX

ALIGNMENT "NORTH STRING - T10-T19" - CRANE PATH
(44+00 TO 65+00 CRANE PATH)



Drawn By	Checked By	Date
MT	JLD	1/25/11
JD		4/15/11

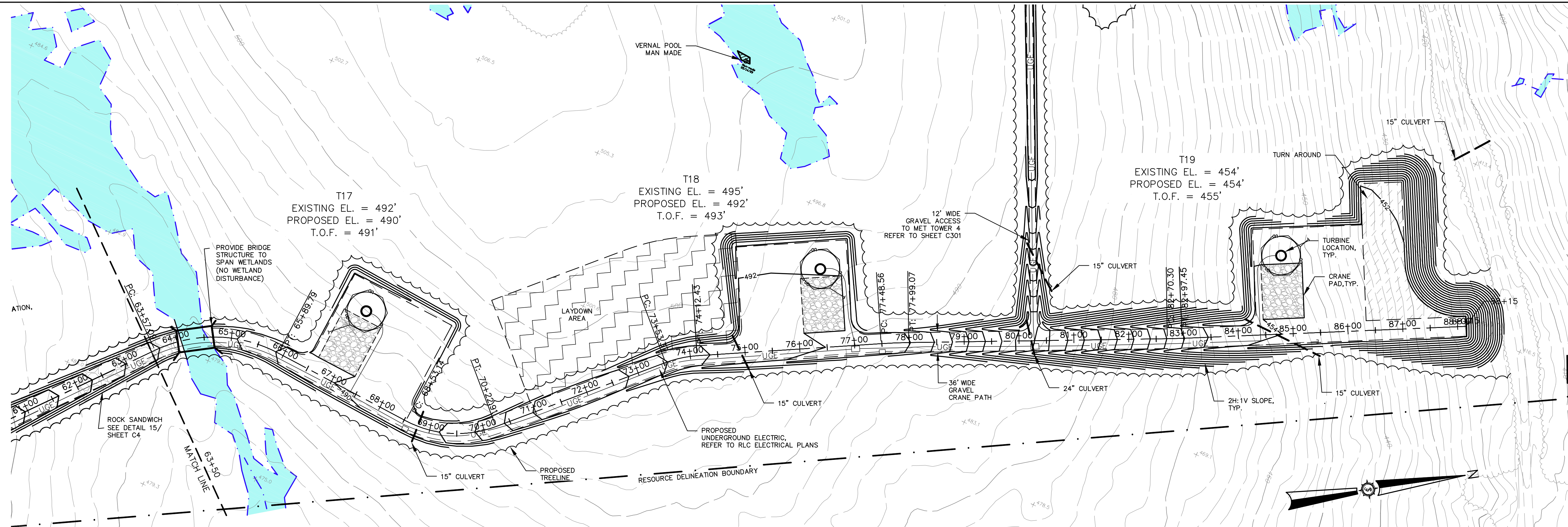
BULL HILL WIND PROJECT	
Drawn By: JLD	Checked By: BOH
Date: 11/24/10	Scale: H: 1"=100', V: 1"=50'
Project Location: T16MD	Approval: [Signature]
Drawing Description: PLAN / PROFILE	



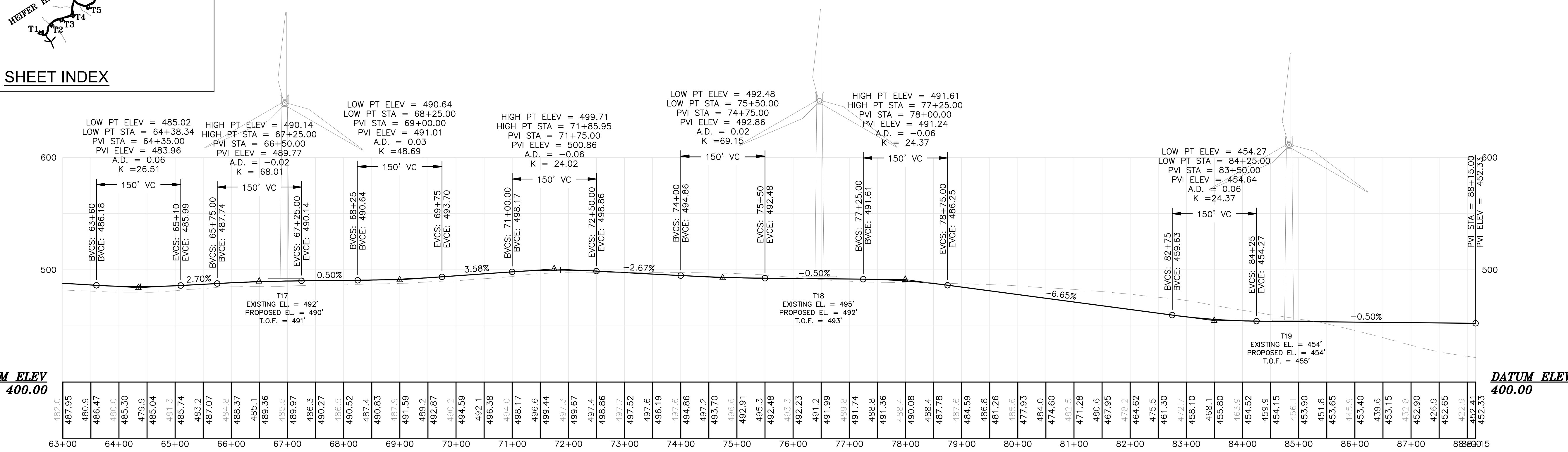
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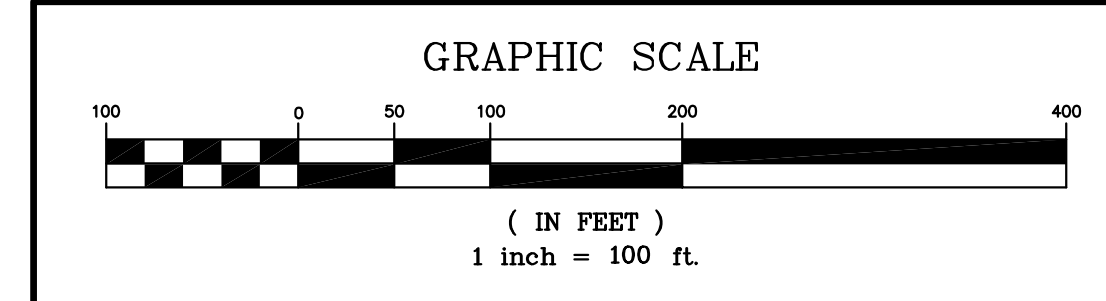
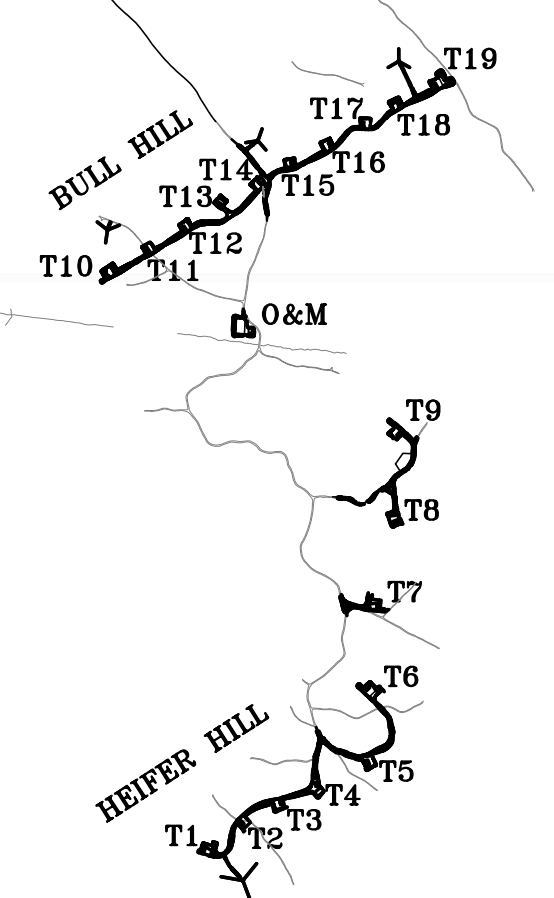
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ALIGNMENT "NORTH STRING - T10-T19" - CRANE PATH
(65+00 TO END CRANE PATH)

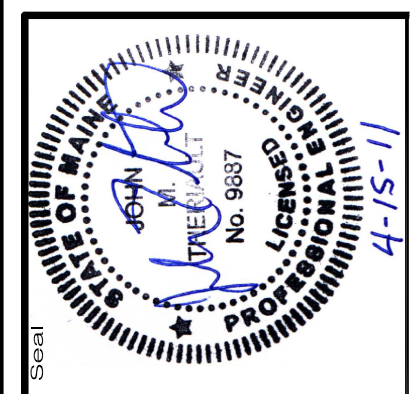


SHEET INDEX



Drawn By	Checked By	Date
JLD	JLD	1/25/11
JLD	JLD	4/15/11

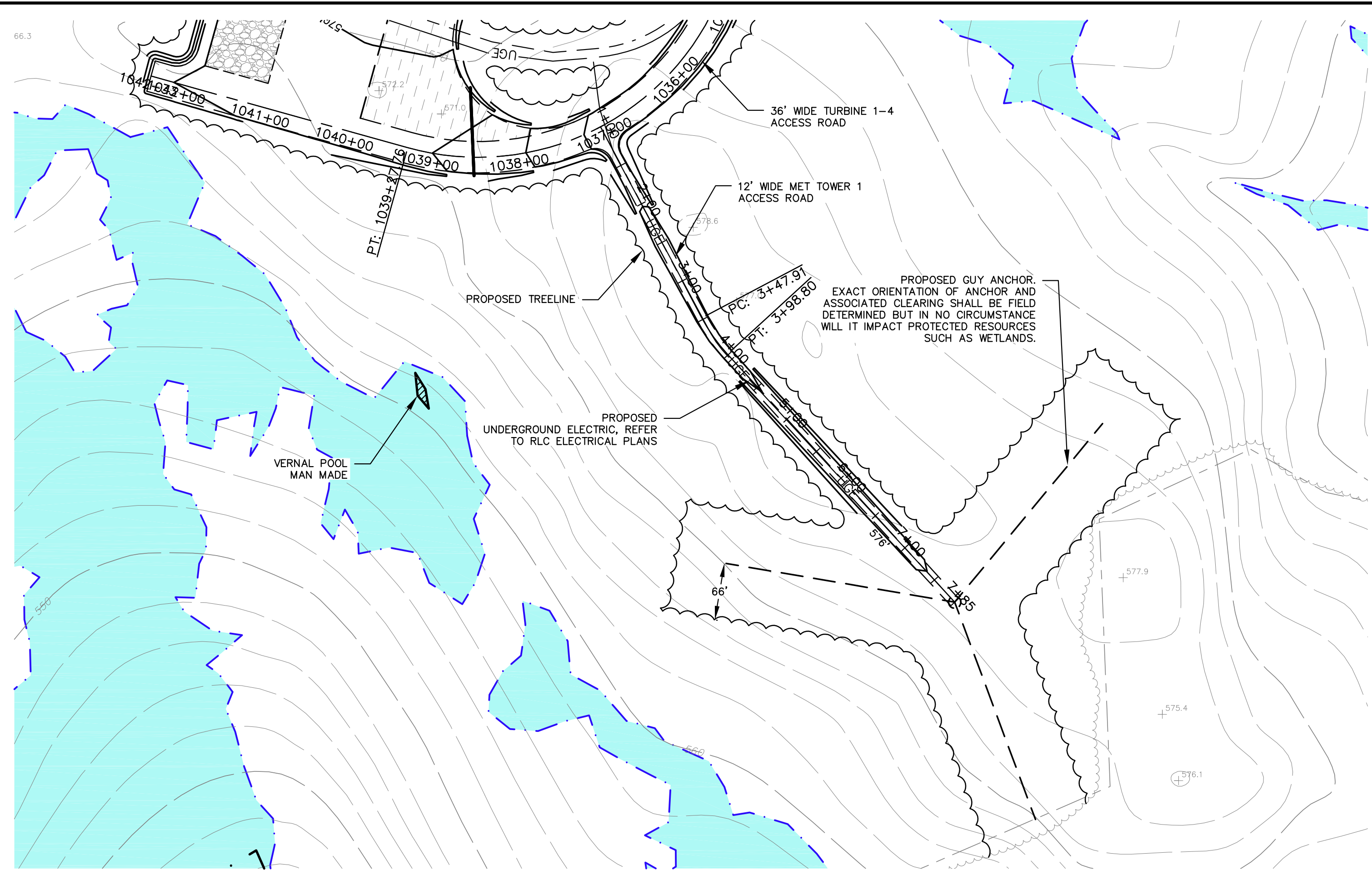
Project Location	Scale	Checked
T16MD	H: 1"=100', V: 1"=50'	BOH



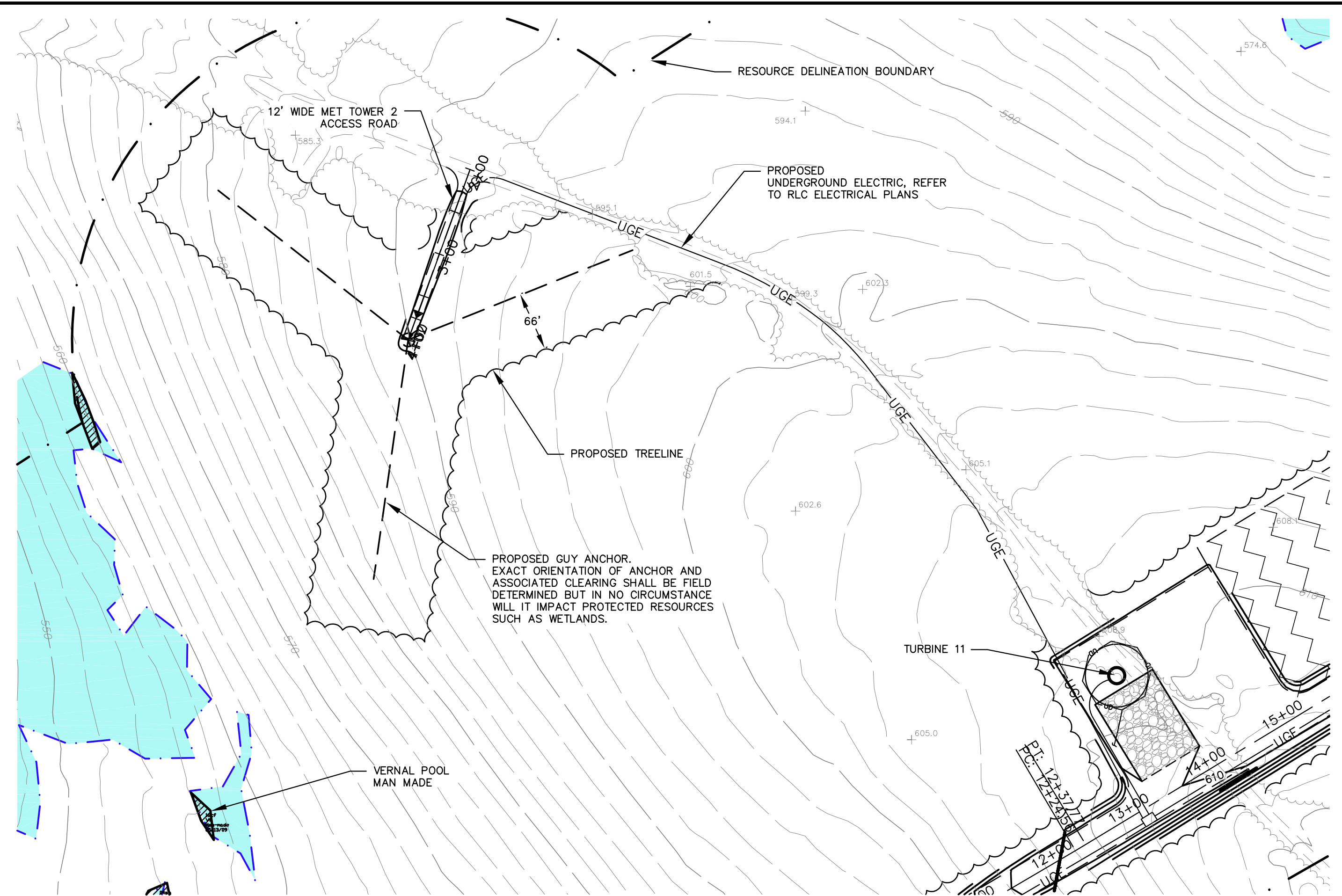
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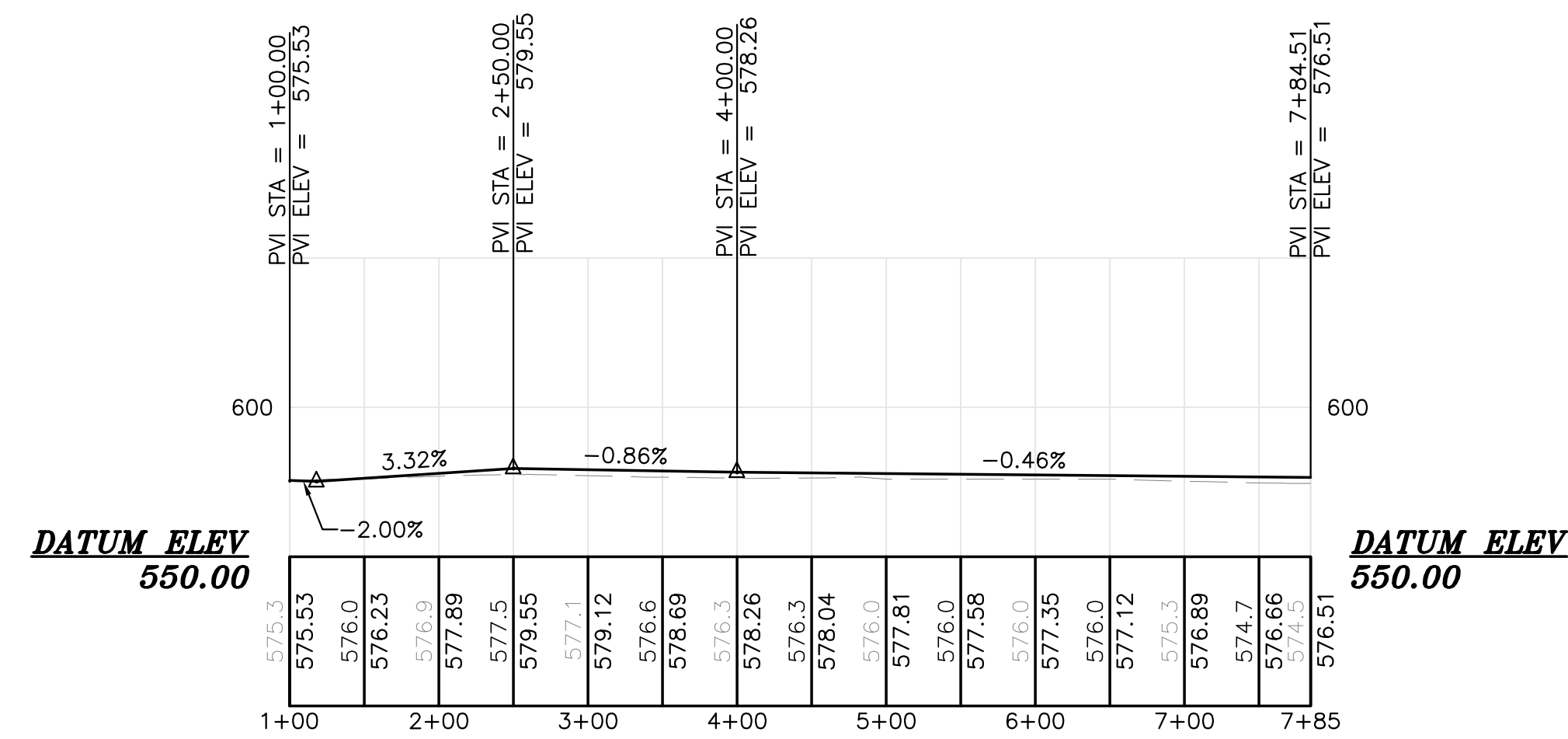
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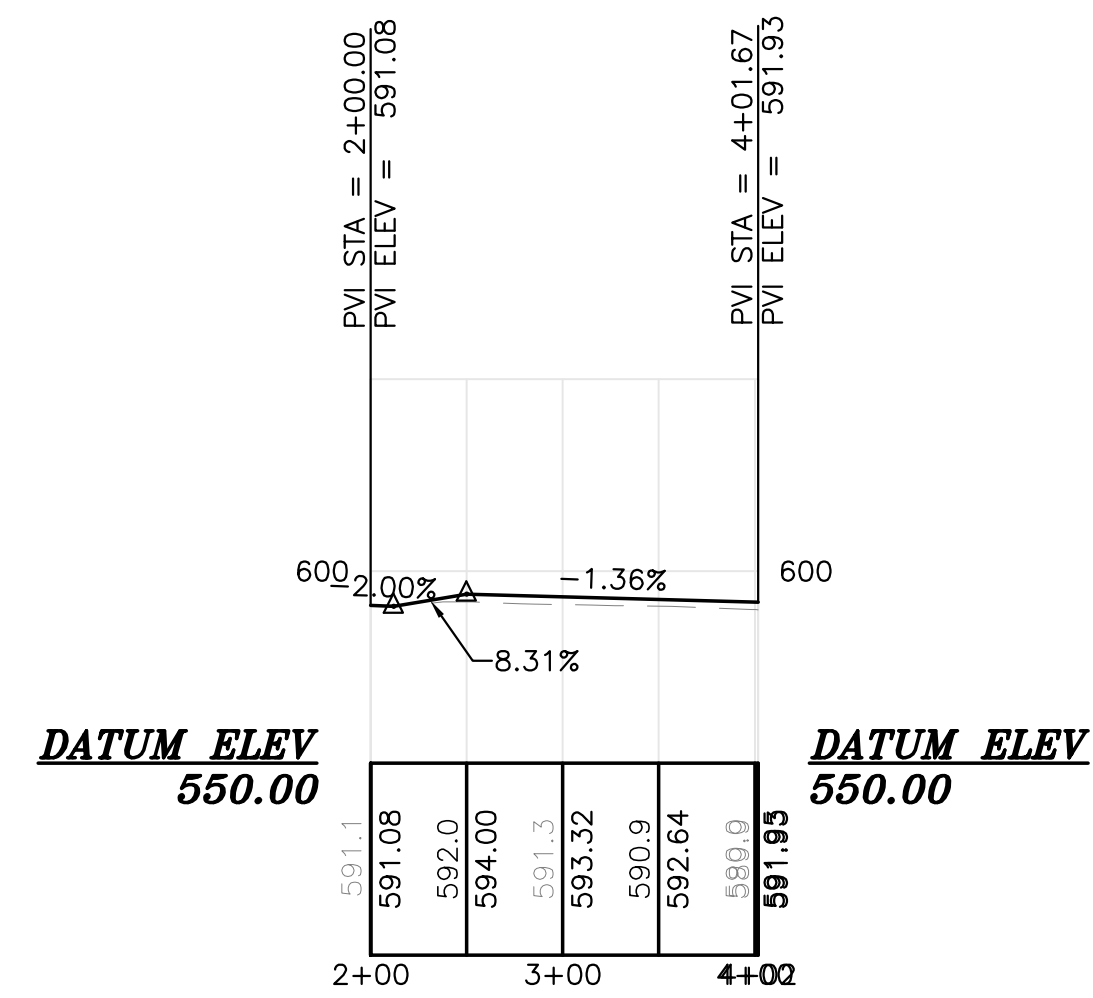
MET TOWER 1 PLAN
SCALE: 1"=100'



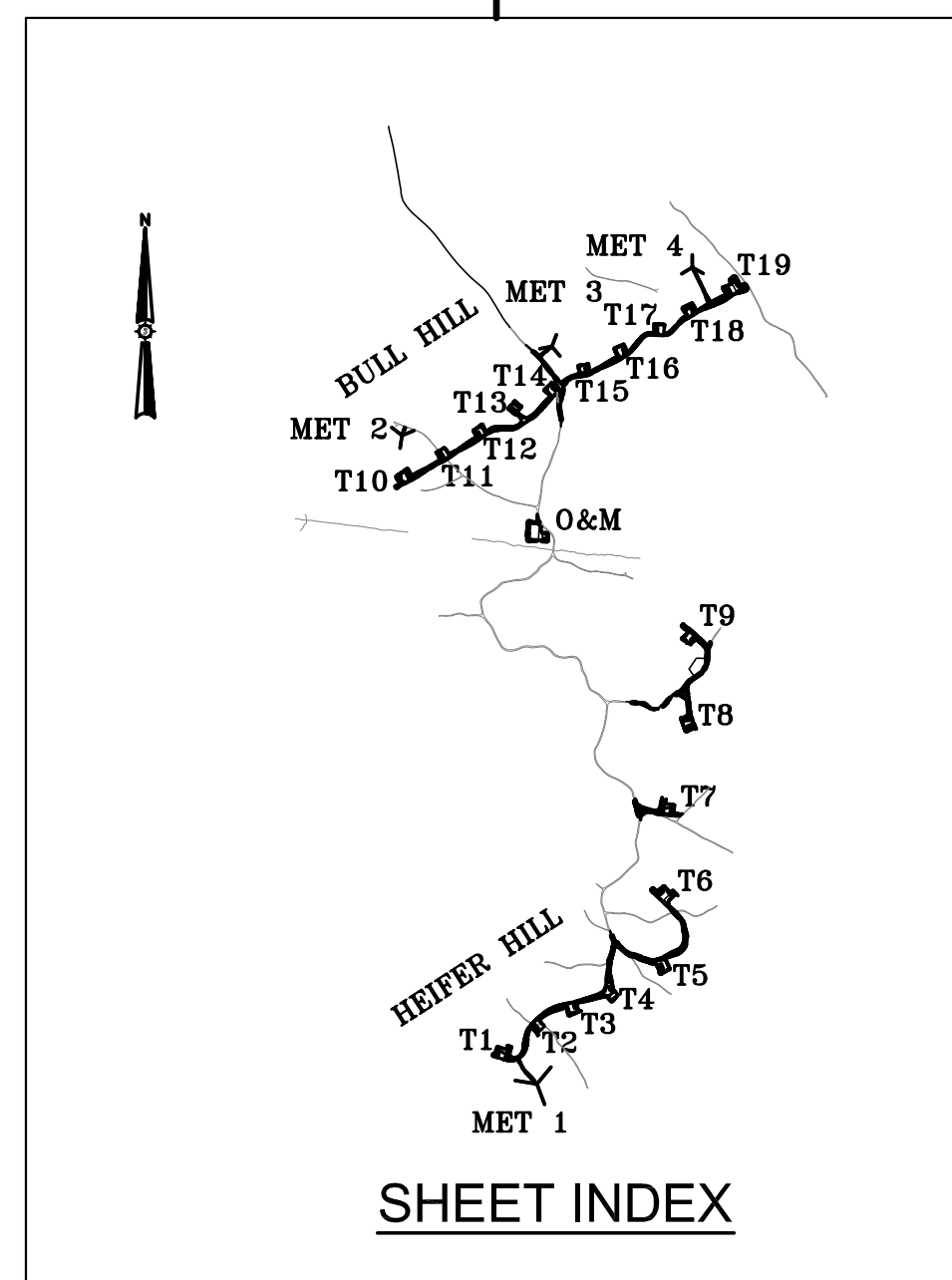
MET TOWER 2 PLAN
SCALE: 1"=100'



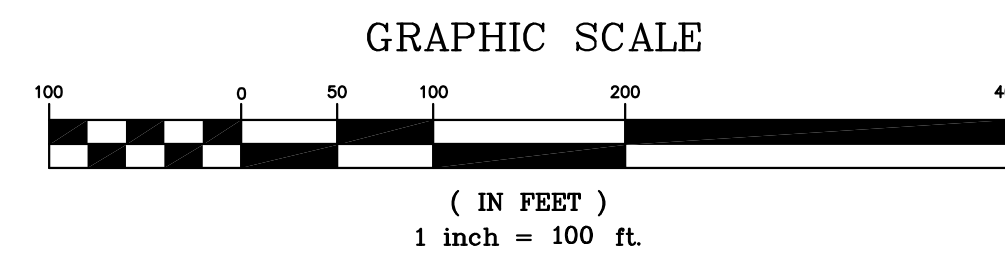
MET TOWER 1 PROFILE
SCALE: H-1"=100', V-1"=50'



MET TOWER 2 PROFILE
SCALE: H-1"=100', V-1"=50'

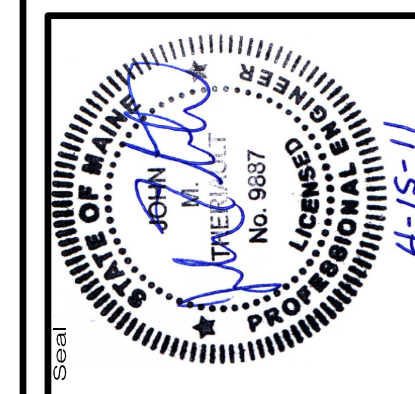


SHEET INDEX



Rev. #	Drawn By	Description	Date
1	MT	REVISED PER LURC COMMENTS DATED 07/18/11	1/25/11
2	JD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

Designed By JMT	Drawn By JLD
Date 11/24/2010	Scale H: 1"=100', V: 1"=50'
Project Location T16MD	Approved BOH
Drawing Description MET TOWER LOCATIONS	Checked BOH



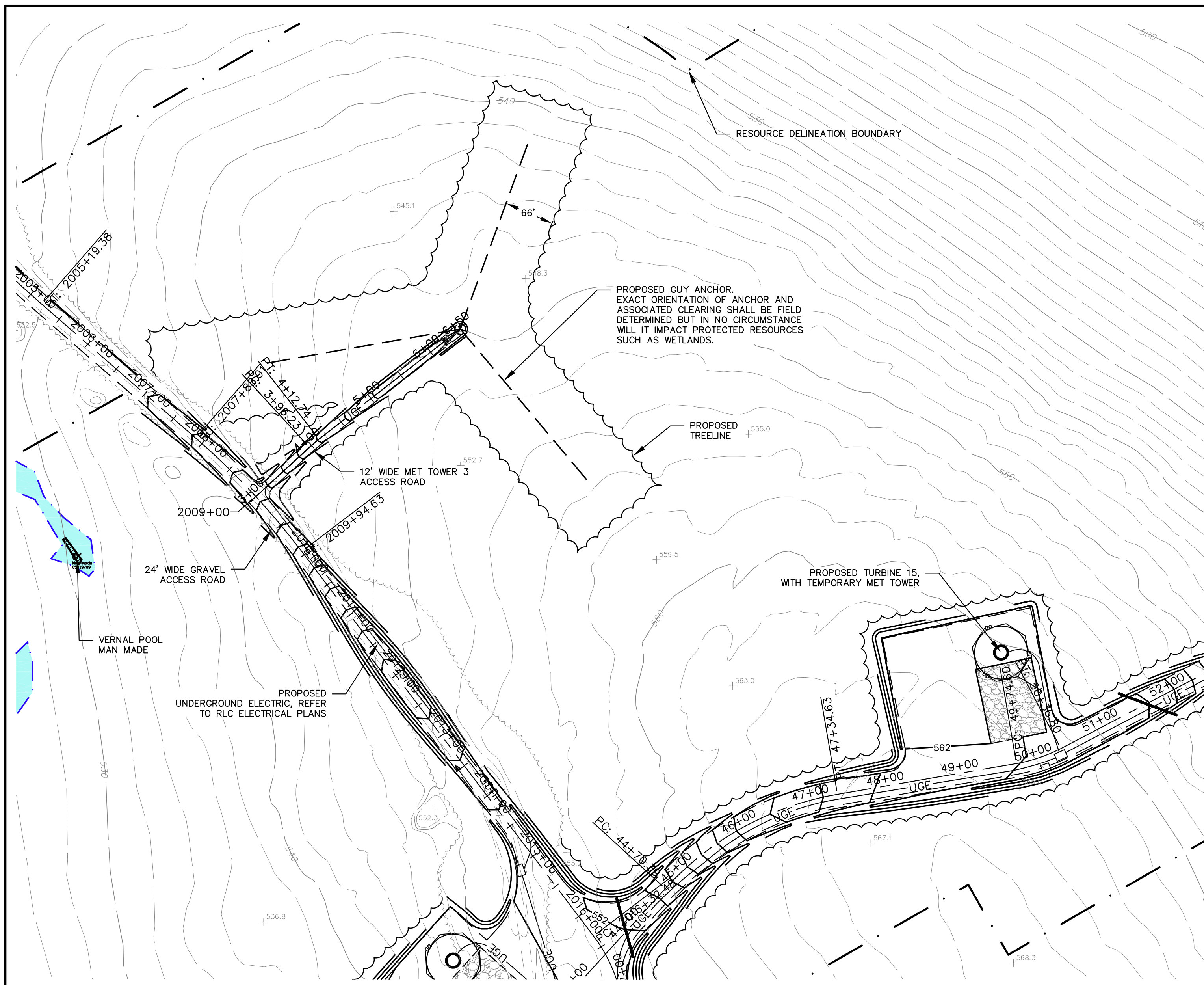
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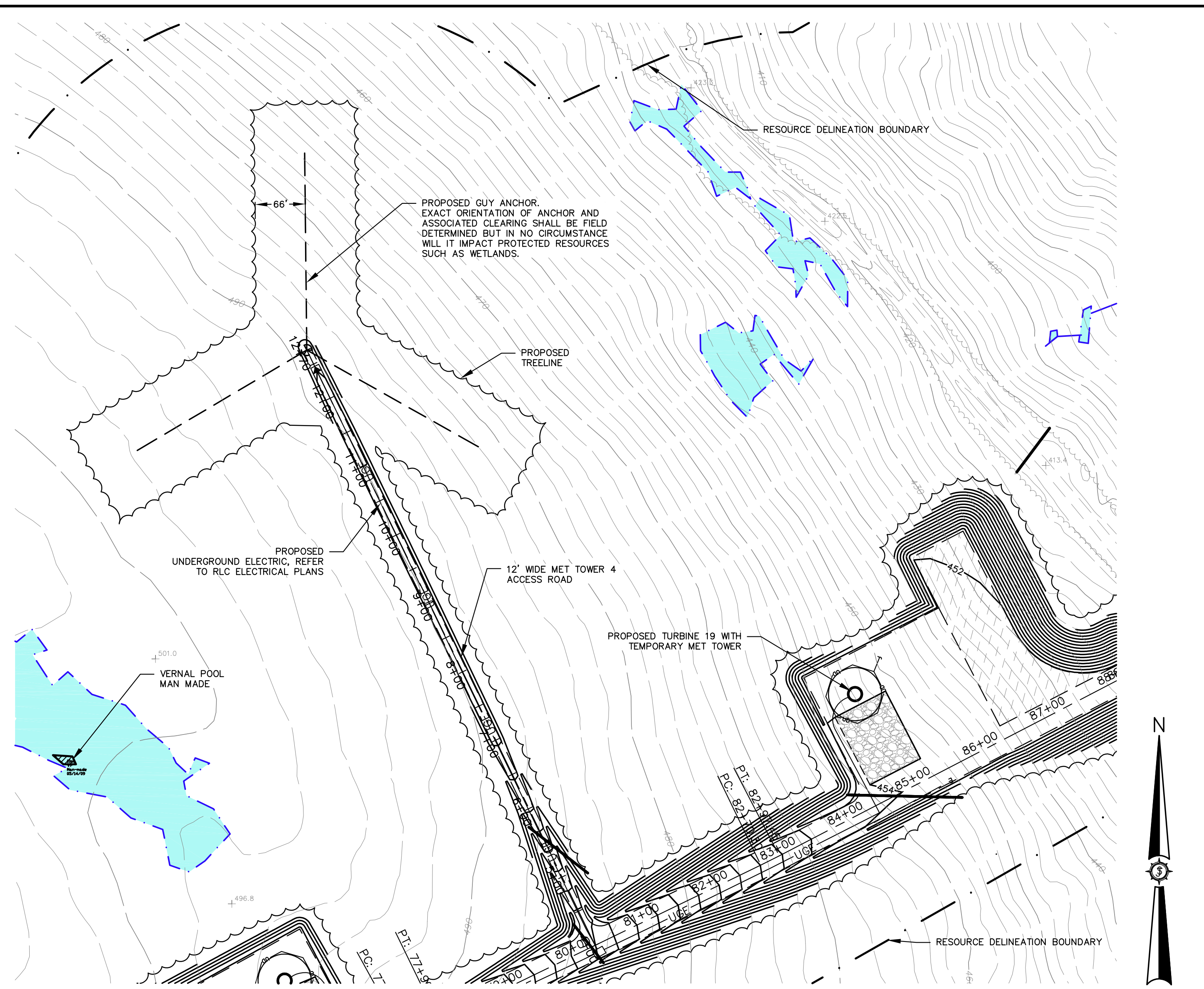
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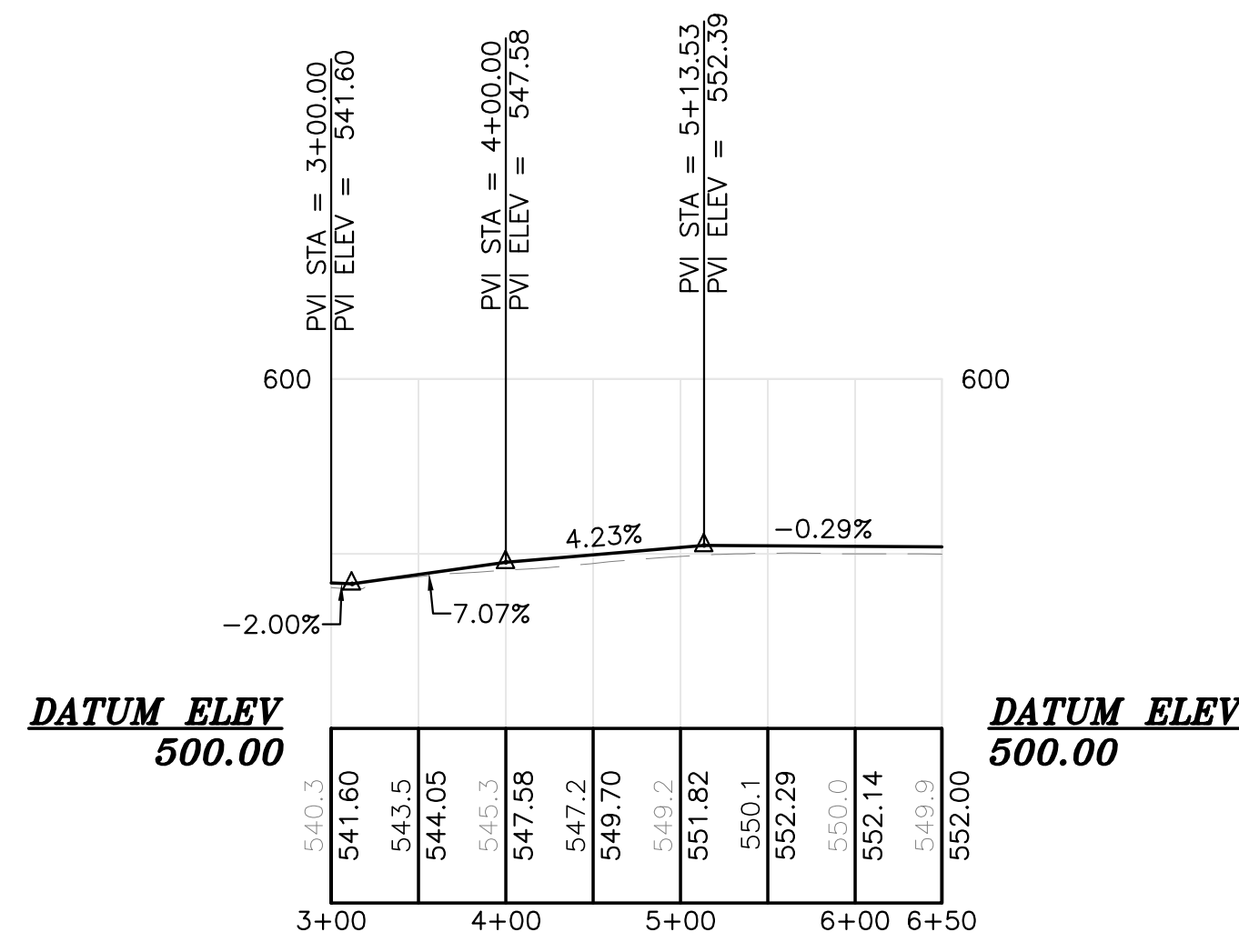
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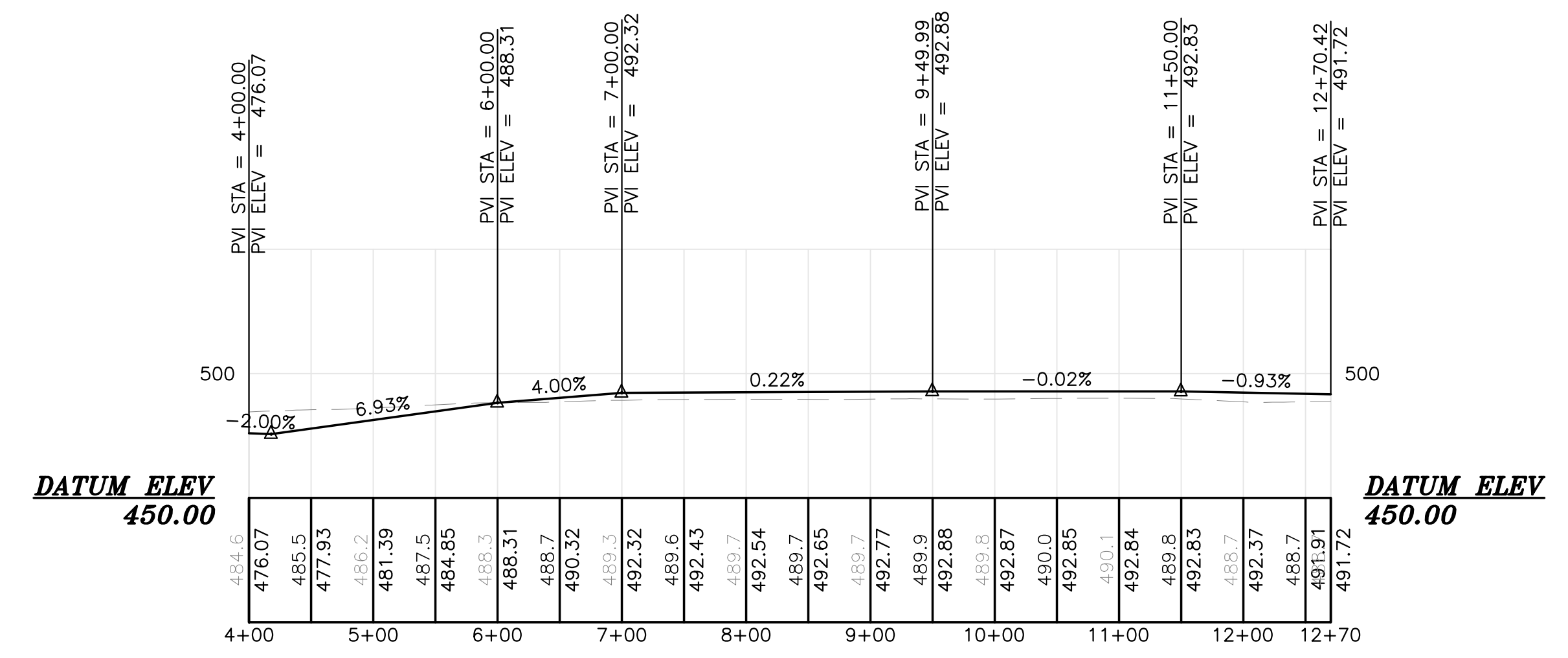
MET TOWER 3 PLAN
SCALE: 1"=100'



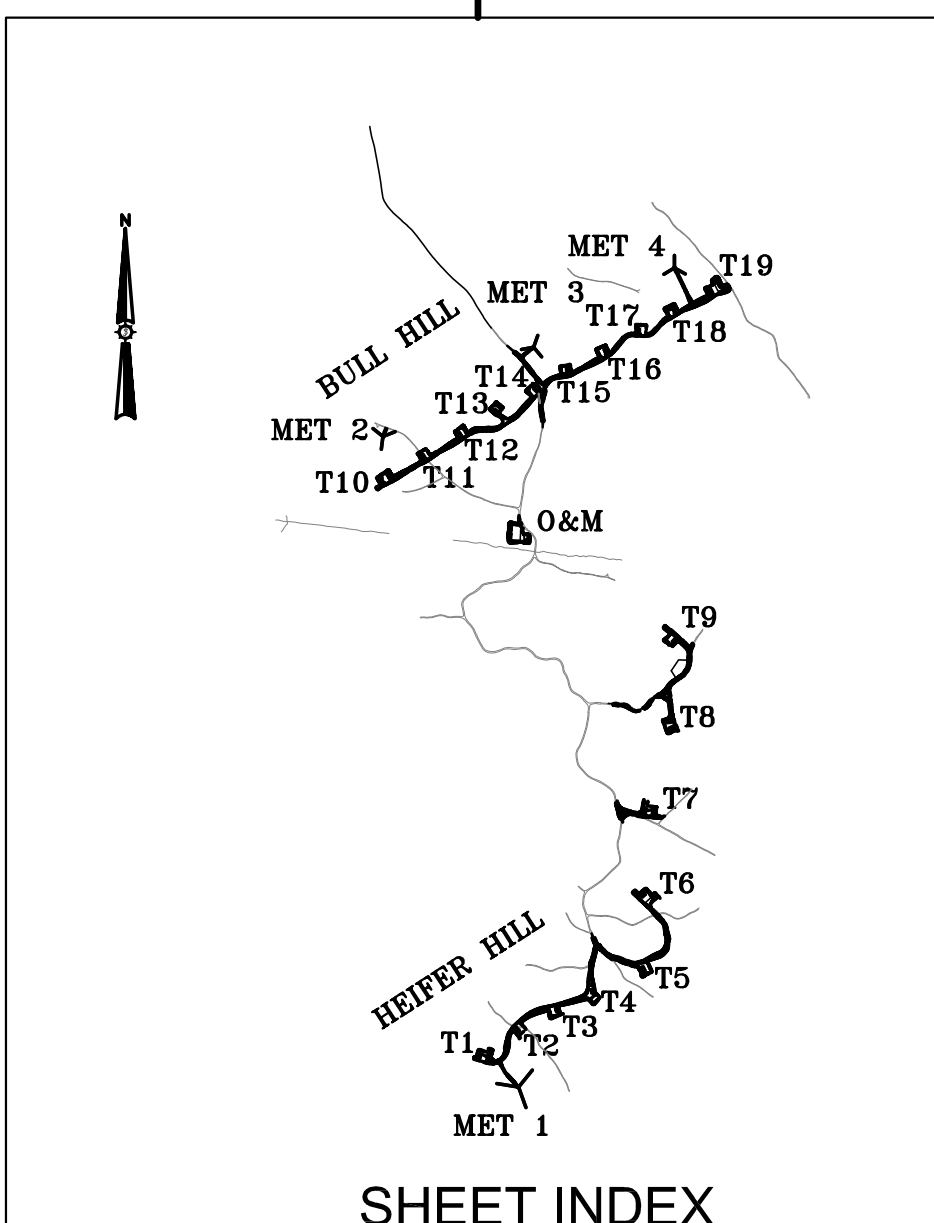
MET TOWER 4 PLAN
SCALE: 1"=100'



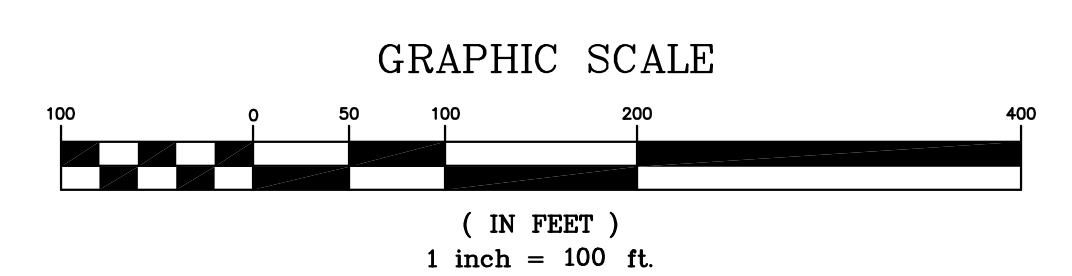
MET TOWER 3 PROFILE
SCALE: H-1"=100', V-1"=50'



MET TOWER 4 PROFILE
SCALE: H-1"=100', V-1"=50'

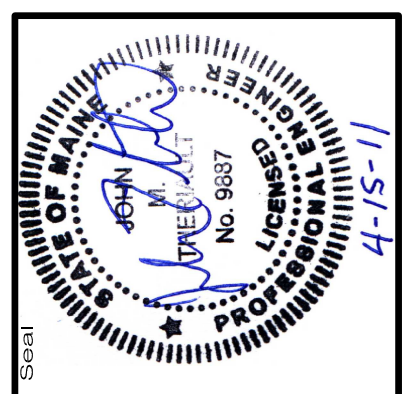


SHEET INDEX



Rev.	Drawn By	Description	Date
1	MT	REVISED PER LURC COMMENTS DATED 07/18/11	1/25/11
2	JD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

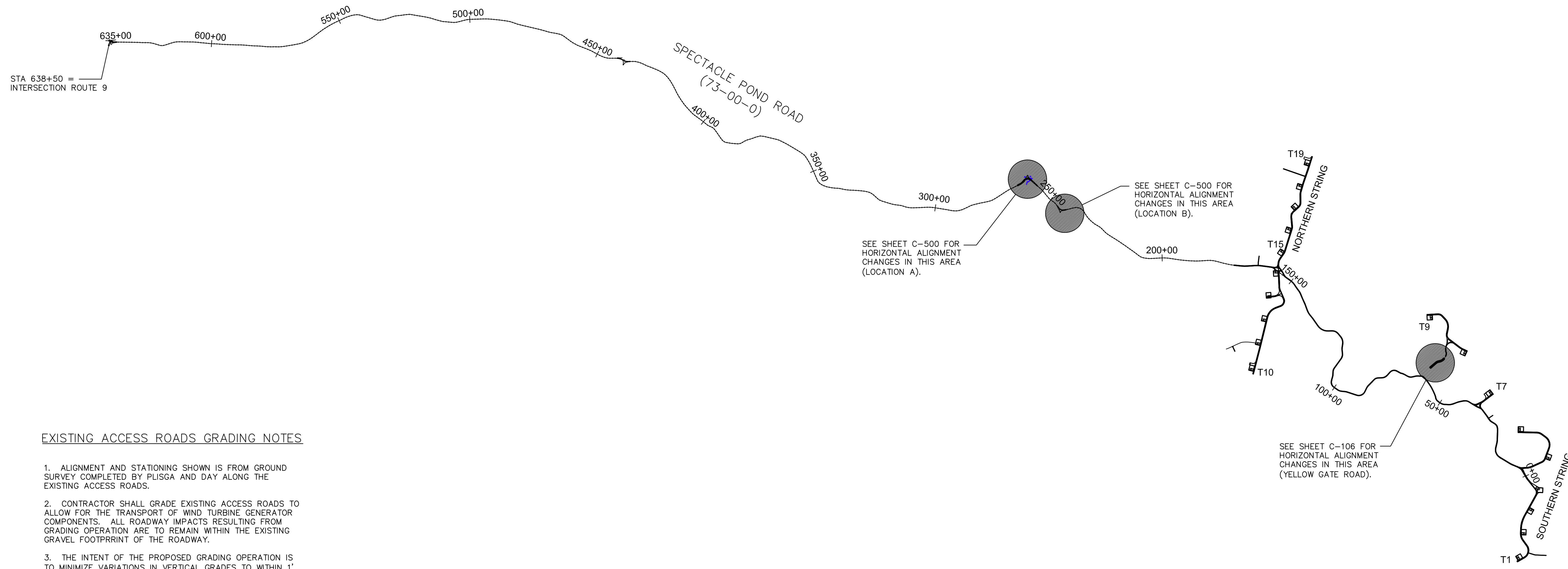
Designed By	JMT	Drawn By	JLD
Date	11/24/2010	Scale	H:1"=100', V:1"=50'
Project Location	T16MD		
Drawing Description	MET TOWER LOCATIONS		
Checked	BOH	Approved	



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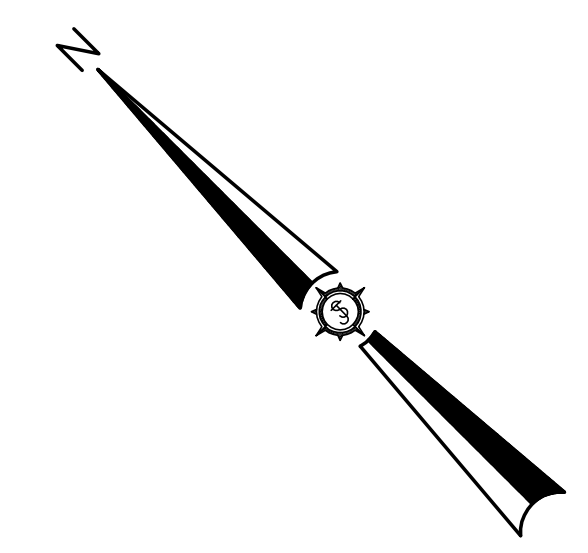
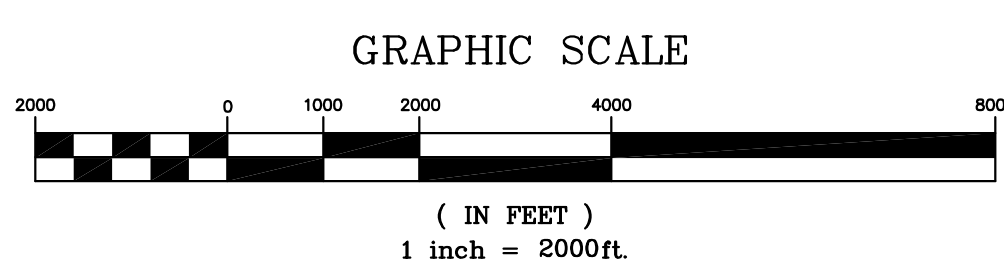
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EXISTING ACCESS ROADS GRADING NOTES

1. ALIGNMENT AND STATIONING SHOWN IS FROM GROUND SURVEY COMPLETED BY PLISGA AND DAY ALONG THE EXISTING ACCESS ROADS.
2. CONTRACTOR SHALL GRADE EXISTING ACCESS ROADS TO ALLOW FOR THE TRANSPORT OF WIND TURBINE GENERATOR COMPONENTS. ALL ROADWAY IMPACTS RESULTING FROM GRADING OPERATION ARE TO REMAIN WITHIN THE EXISTING GRAVEL FOOTPRINT OF THE ROADWAY.
3. THE INTENT OF THE PROPOSED GRADING OPERATION IS TO MINIMIZE VARIATIONS IN VERTICAL GRADES TO WITHIN 1' ELEVATION CHANGE WITHIN 100 FEET. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM EXISTING ROADWAY TO AREAS BEING GRADED.
4. IN AREAS THAT REQUIRE CUT 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.
5. GRAVEL FOR ROADWAY RECONSTRUCTION SHALL BE SIMILAR TO MAINEDOT TYPE D OR APPROVED SUBSTITUTE WITH TOP 6" SCREENED TO 2" MINUS.



Rev. #	Drawn By	Description	Date
1	MT	REVISED PER LURC COMMENTS DATED 01/18/11	1/25/11
2	JLD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

Designed By	Drawn By
JMT	JLD
Date	Date
11/24/10	11/24/10
Scale	Scale
1"=2000'	1"=2000'
Approved	Checked
-	BCH

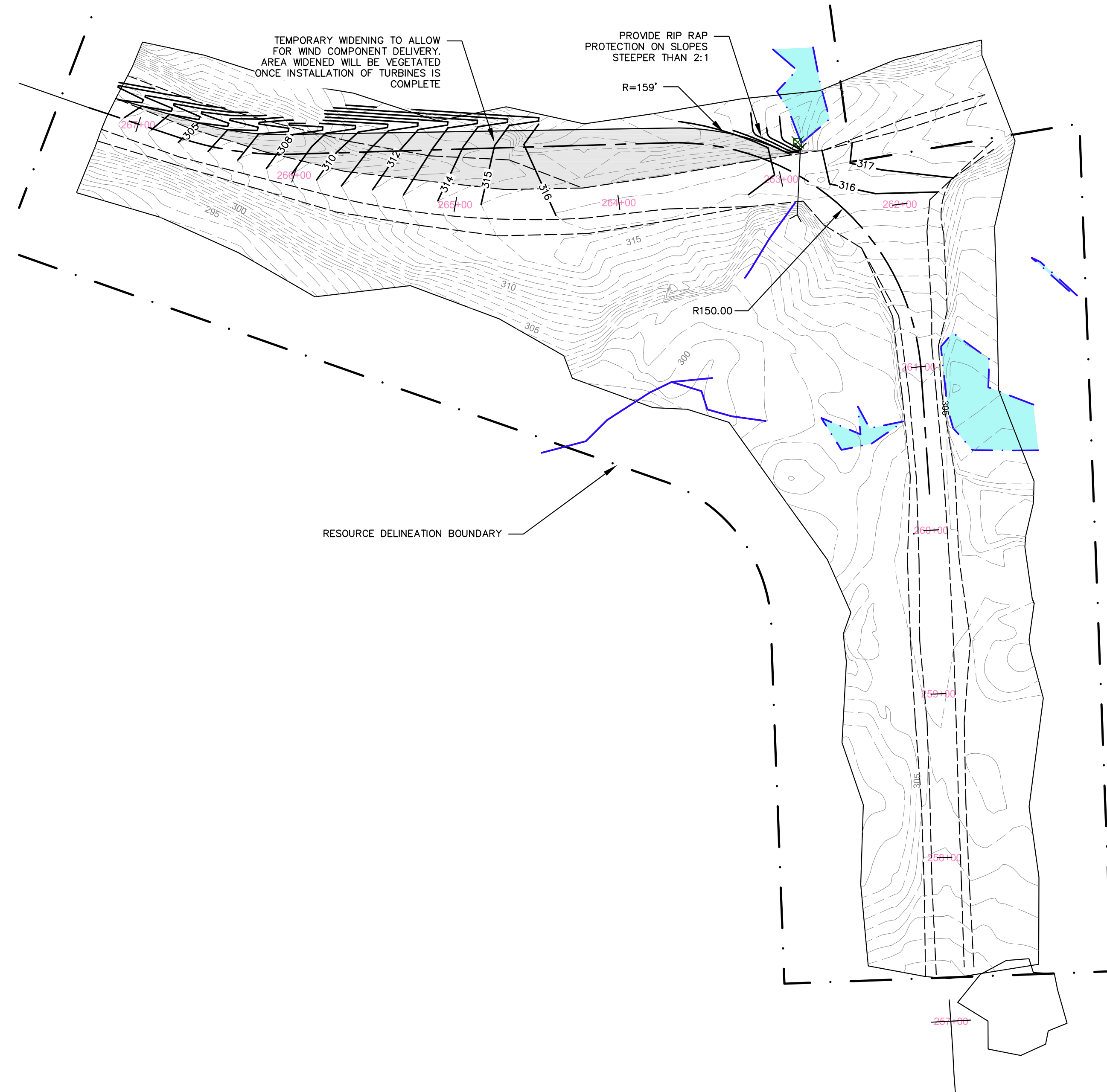
BULL HILL WIND PROJECT
 Project Location: T16 MD, HANCOCK COUNTY
 Drawing Description: **ACCESS ROADS IMPROVEMENT INDEX**



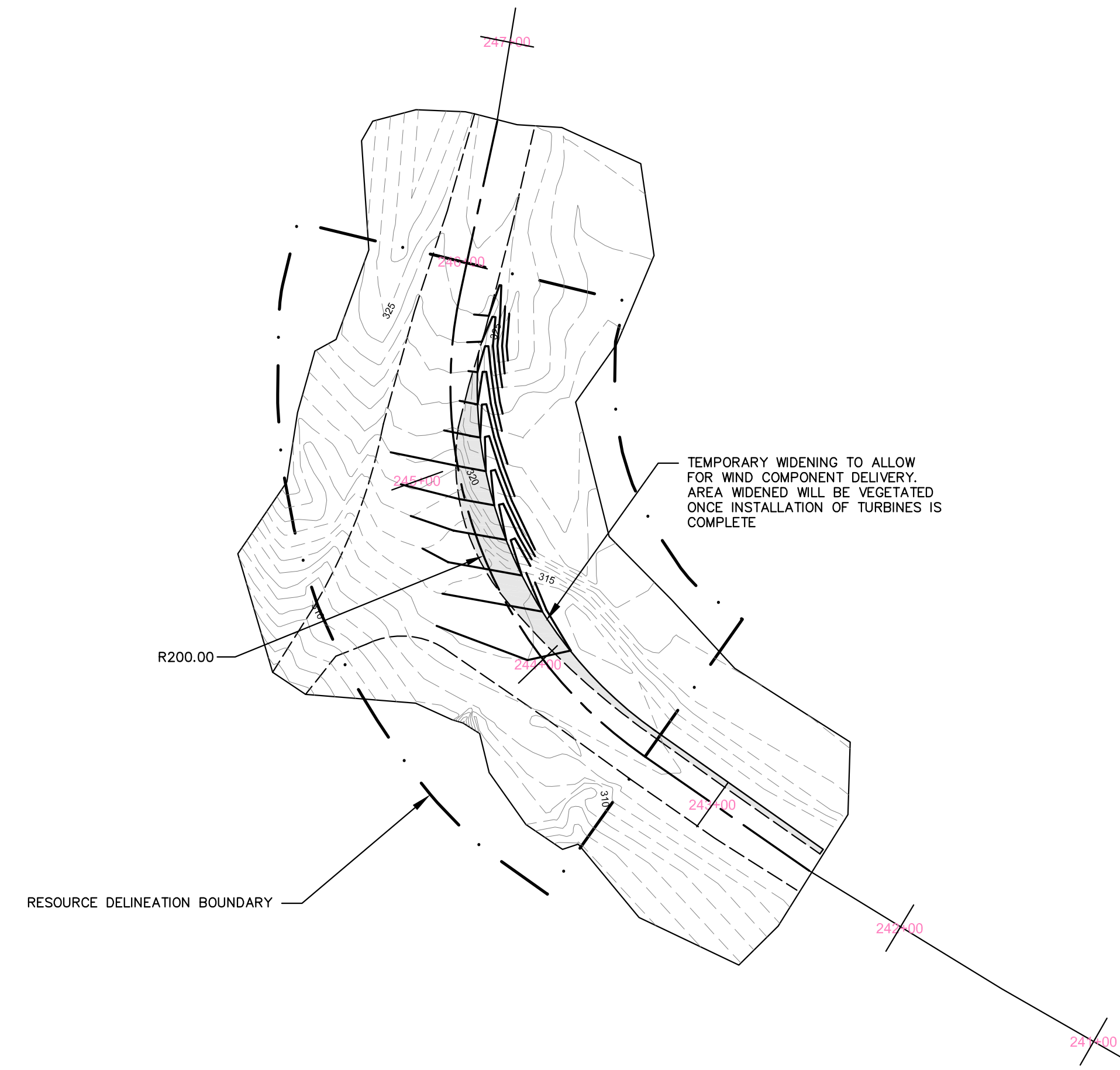
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Phase: **PERMIT**

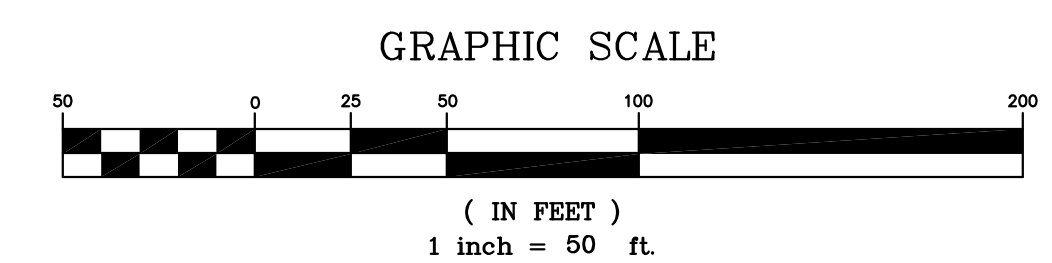
Sheet No.: **C-400**



LOCATION A

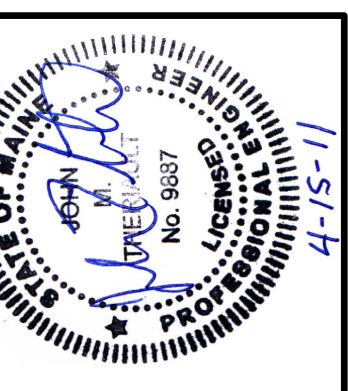


LOCATION B



Rev. #	Drawn By	Description	Date
1	MT	REVISED PER LURC COMMENTS DATED 01/18/11	1/25/11
2	JLD	REVISED PER AGENCY COMMENTS DATED 04/11/11	4/15/11

Designed By	JLD
Date	11/24/2010
Scale	H: 1" = 100' V: 1" = 50'
Approved	BCH



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