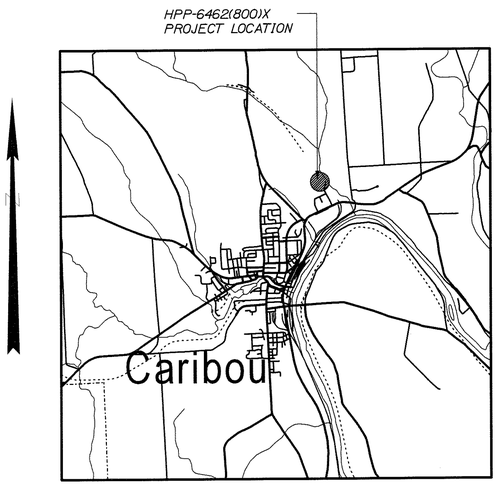
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CARIBOU
AROOSTOOK COUNTY
HPP-6462(800)X
CARIBOU TRAIL HEAD PARK & RIDE
NEW CONSTRUCTION



LOCATION MAP

1 0 1 2
Scale in Miles

INDEX OF SHEETS

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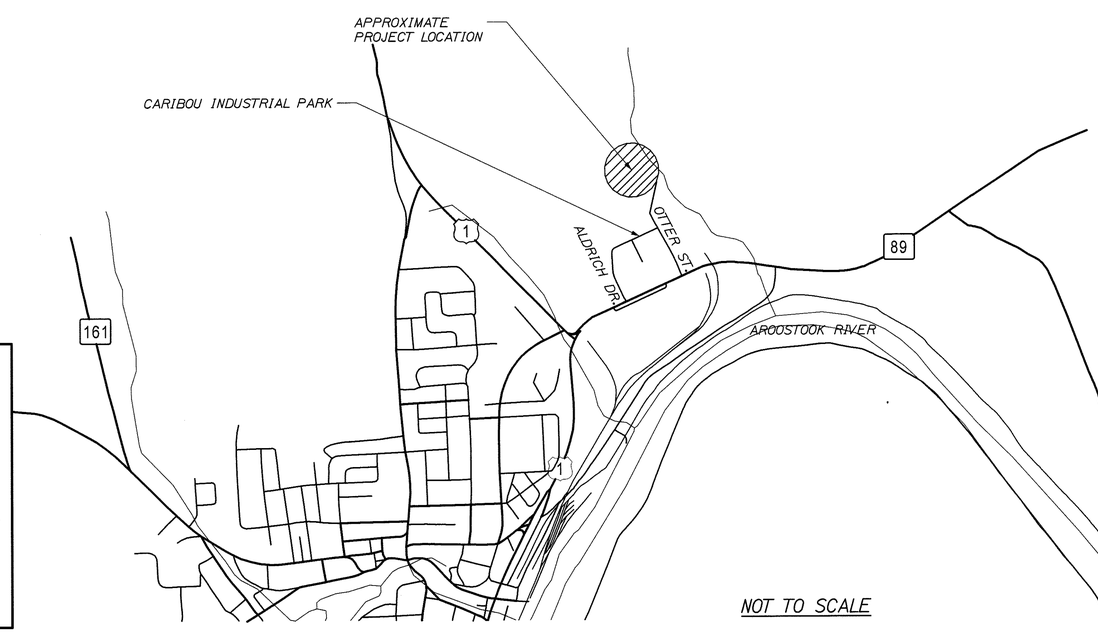


NOT TO SCALE

PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert Proposed
Curbing Existing Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees Conifer Deciduous
Tree Line
Clearing Limit Line CLL
Centerline-Existing
Centerline-Proposed
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins Existing Proposed
Manholes Existing Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utility Poles Existing Proposed
Fire Hydrants Existing Proposed
Existing Water Line
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

PROGRAM AREA: HIGHWAY IMPROVEMENTS: RURAL ARTERIAL

SCOPE OF WORK: NEW CONSTRUCTION, PARK & RIDE, SNOW STORAGE, ITS TRAIL, ACCESS ROADS, LIGHTING, DRAINAGE

HPP-6462(800)X WIN 6462.80

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED DATE
COMMISSIONER: 8/19/11
CHIEF ENGINEER: 8/18/11

STATE OF MAINE Raymond Demerchant Jr. 10655 LICENSED PROFESSIONAL ENGINEER

SIGNATURE 10655
P.E. NUMBER 7/22/11
DATE

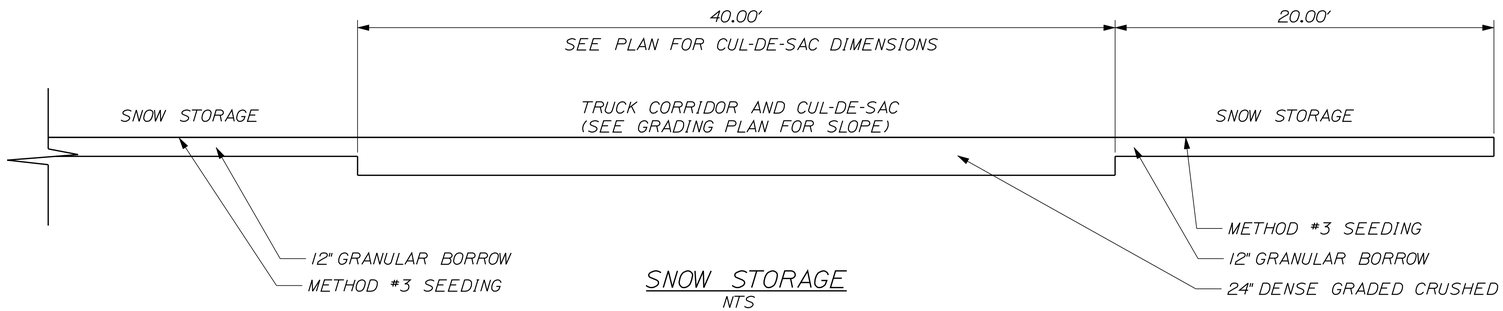
PROJECT INFORMATION
PROGRAM HIGHWAY
PROJECT MANAGER JON BITHER
DESIGNER SPENCER MAYNARD
CONSULTANT
PROJECT RESIDENT
CONTRACTOR
PROJECT COMPLETION DATE

CARIBOU
TRAIL HEAD PARK & RIDE

TITLE SHEET

SHEET NUMBER
1
OF 13

Filename: ...\MSTA\Park & Ride\001_Title.dgn Division: HIGHWAY Username: Raymond.demerchant Date:7/22/2011



SNOW STORAGE
NTS

NOTES:

1. WHEN STATIONING IS SHOWN IT IS APPROXIMATE.

2. FOR CONTOUR INFORMATION BEYOND EDGE LIMITS OF PARKING AND SNOW STORAGE AREAS SEE GRADING PLAN.

3. FOR LENGTH AND WIDTH DIMENSIONS OF PARKING AREA AND SNOW STORAGE AREA SEE GEOMETRICS AND LAYOUT PLAN.

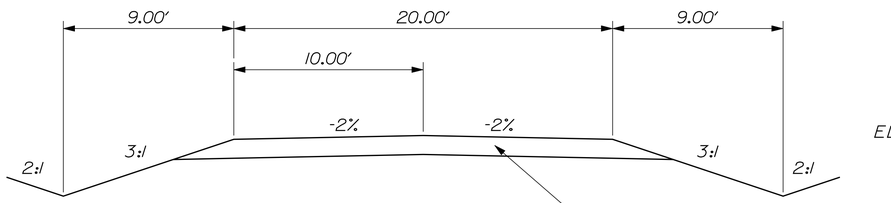
4. TRUCK TRAVEL CORRIDOR AND CUL-DE-SAC IN SNOW STORAGE AREA SHALL BE CONSTRUCTED WITH 24" DENSE GRADED CRUSHED AGG. REMAINING AREA SHALL BE CONSTRUCTED WITH 12" GRANULAR BORROW.

5. DENSE GRADED CRUSHED AGGREGATE ITEM 304.13 INCLUDES PAYMENT FOR PLACEMENT OF A 1" FINE AGGREGATE MATERIAL AS A TOP COURSE PLACED 2 INCHES THICK MINIMUM.

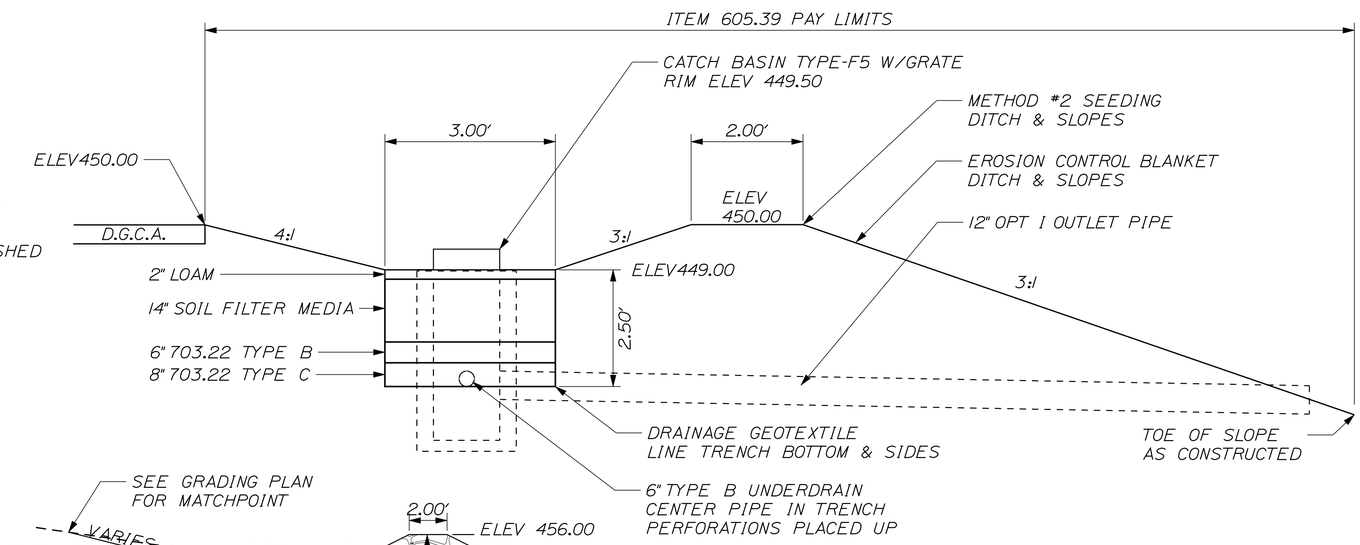
6. GRUBBING DEPTHS SHALL BE 15 INCHES MINIMUM IN AREAS DESIGNATED FOR CLEARING. AND 9 INCHES MINIMUM IN ALL OTHER AREAS.

7. END GRUBBING DIRECTLY BENEATH PERIMETER BOX CUT FOR DENSE GRADED OR GRANULAR BORROW IN SNOW STORAGE AND PARKING AREAS (Typ.).

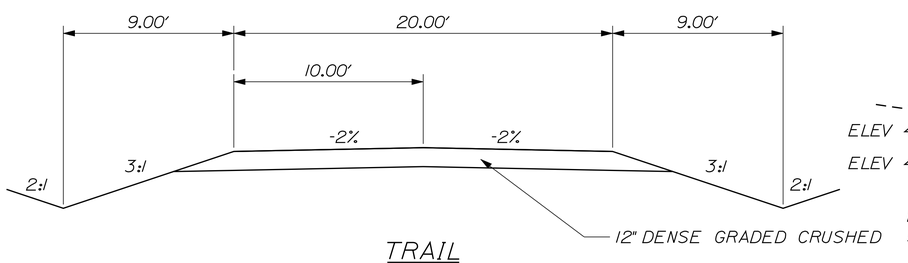
8. GRANULAR BORROW PLACED AT SNOW DUMP SHALL RECEIVE #3 SEED REMAINING DISTURBED AREAS SHALL RECEIVE #2.



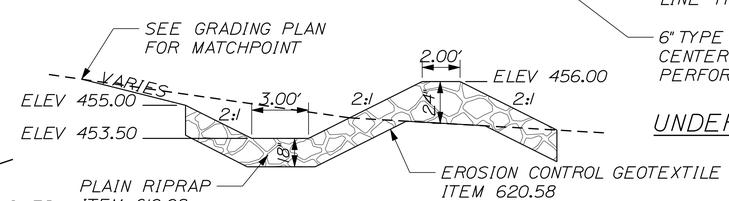
ACCESS DRIVES
NTS



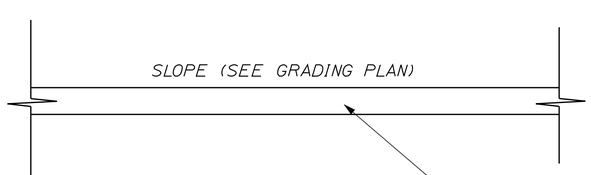
UNDERDRAIN DITCH SOIL FILTER
NTS



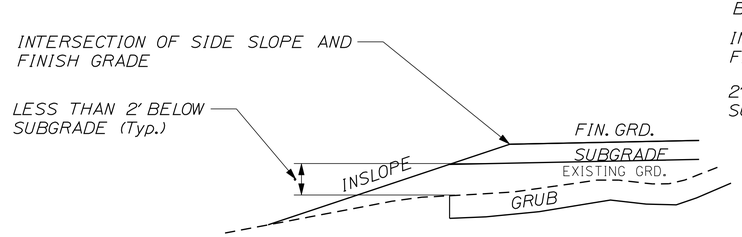
TRAIL
NTS



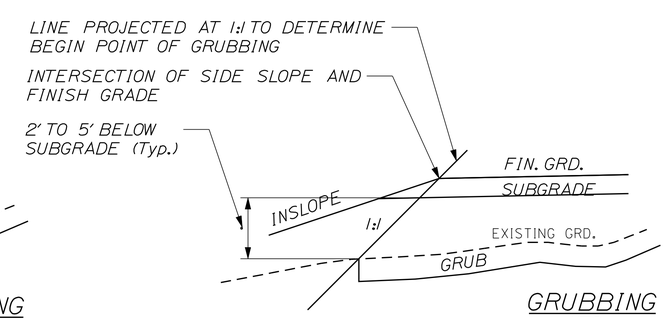
LEVEL LIP SPREADER
NTS



PARKING AREA
NTS



GRUBBING
NTS



GRUBBING
NTS

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HPP-6462(800)X

WIN 6462.80

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JON BITHER		
DESIGN-DETAILED	S. MAYNARD	R. BARNES	
CHECKED-REVIEWED	R. DEMERCH		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

CARIBOU
TRAIL HEAD PARK & RIDE

TYPICAL SECTIONS

SHEET NUMBER
2
OF 13

Filename: ...\park & ride\002_Typical.dgn Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011

ESTIMATED QUANTITIES

Item No.	Item Description	Quantity	Unit
201.11	CLEARING	5	AC
203.20	COMMON EXCAVATION	12850	CY
203.24	COMMON BORROW	500	CY
203.25	GRANULAR BORROW	1450	CY
304.13	DENSE GRADED CRUSHED AGGREGATE SUBBASE	6700	CY
603.199	24 INCH CULVERT PIPE OPTION III	100	LF
605.39	UNDERDRAIN DITCH SOIL FILTER	1	LS
610.08	PLAIN RIPRAP	150	CY
610.20	FIELDSTONE BOULDER-LARGE	15	EA
610.21	FIELDSTONE BOULDER-SMALL	25	CY
613.319	EROSION CONTROL BLANKET	480	SY
615.07	LOAM	200	CY
618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	40	UN
618.1411	SEEDING METHOD NUMBER 3 - PLAN QUANTITY	180	UN
619.1201	MULCH - PLAN QUANTITY	220	UN
620.54	STABILIZATION GEOTEXTILE	1200	SY
620.58	EROSION CONTROL GEOTEXTILE	300	SY
621.037	EVERGREEN TREES (5 FOOT - 6 FOOT) GROUP A	3	EA
621.044	EVERGREEN TREES (6 FOOT - 8 FOOT) GROUP B	5	EA
621.047	EVERGREEN TREES (8 FOOT - 9 FOOT) GROUP B	2	EA
621.285	LARGE DECIDUOUS TREE (3 INCH - 3.50 INCH CALIPER)	3	EA
626.22	NON-METALLIC CONDUIT	900	LF
626.32	24 INCH FOUNDATION	9	EA
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	10	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.132	SMALL BULLDOZER (INCLUDING OPERATOR)	10	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	10	HR
631.20	STUMP CHIPPER (INCLUDING OPERATOR)	10	HR
634.16	HIGHWAY LIGHTING	1	LS
634.2042	LED LUMINARIES	9	EA
634.21	CONVENTIONAL LIGHT STANDARD	9	EA
641.103	WOOD PICNIC TABLE-RECTANGULAR (8 FOOT)	3	EA
641.1031	WOOD PICNIC TABLE-RECTANGULAR (12 FOOT)	1	EA
641.90	DINING PAVILION	1	EA
645.51	SPECIAL SIGNING	1	LS
652.31	TYPE I BARRICADE	10	EA
652.33	DRUM	10	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGNS	230	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	77	CD
652.38	FLAGGER	40	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONT.	1	LS
659.10	MOBILIZATION	1	LS

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	10,635	
GRUBBING IN FILL	2,215	
TOTAL COMMON EXCAVATION		12,850

FILL FOR BORROW CALCULATIONS

FILL	175	
GRUBBING IN FILL	2,215	
TOTAL FILL		2,390

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		12,850
DEDUCTIONS:		
GRUBBING IN CUT	8,305	
GRUBBING IN FILL	2,215	
(2) TOTAL DEDUCTIONS		10,520
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		2,330

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL		2,390
TOTAL AVAIL. NON-ROCK EXCAV. 2,330 x 0.8	1,981	
(4)TOTAL AVAILABLE EXCAVATION =		1,981
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXC		410
COMMON BORROW = 409.5 x 1.15 =		471

GENERAL NOTES

1. CLEARING LIMITS SHALL BE 5' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

2. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE TYPICALS. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS OR AS DIRECTED BY THE RESIDENT. ESTIMATED GRUBBING DEPTHS ARE 9 INCHES IN FIELD AREAS AND 15 INCHES IN WOODED AREAS.

3. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.

4. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL PAID FOR AS GRANULAR BORROW.

5. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

6. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
   - -ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS
   - -ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT
   - -ALL DITCHING AT PIPE ENDS
   - -FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW USED UNDER PIPES AND FOR TEMPORARY DETOURS TO MAINTAIN TRAFFIC DURING PIPE INSTALLATION (EXCAVATION IS ALSO INCIDENTAL).
   - -GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL
   - -ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES
   - -FLOW LINES MAY BE CHANGED BY 1.5 FT
   - -ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS

7. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

8. THE CULVERT SIZES SHOWN ON THE PLANS ARE FOR SMOOTHLINED PIPES.

9. LOAM HAS BEEN ESTIMATED. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.

10. SEEDING METHOD NO. 2 AND 3 SHALL BE UTILIZED AS DIRECTED BY THE RESIDENT.

11. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 2 INCHES IN ALL AREAS UNLESS OTHERWISE DIRECTED.

12. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.

13. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

14. UNDETERMINED LOCATIONS SHALL BE DETERMINED BY THE RESIDENT.

15. ANY STATIONS REFERENCED ARE APPROXIMATE.

16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HPP-6462(800)X

WIN 6462.80

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JON BITHER		
DESIGN-DETAILED	R. BARNES		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

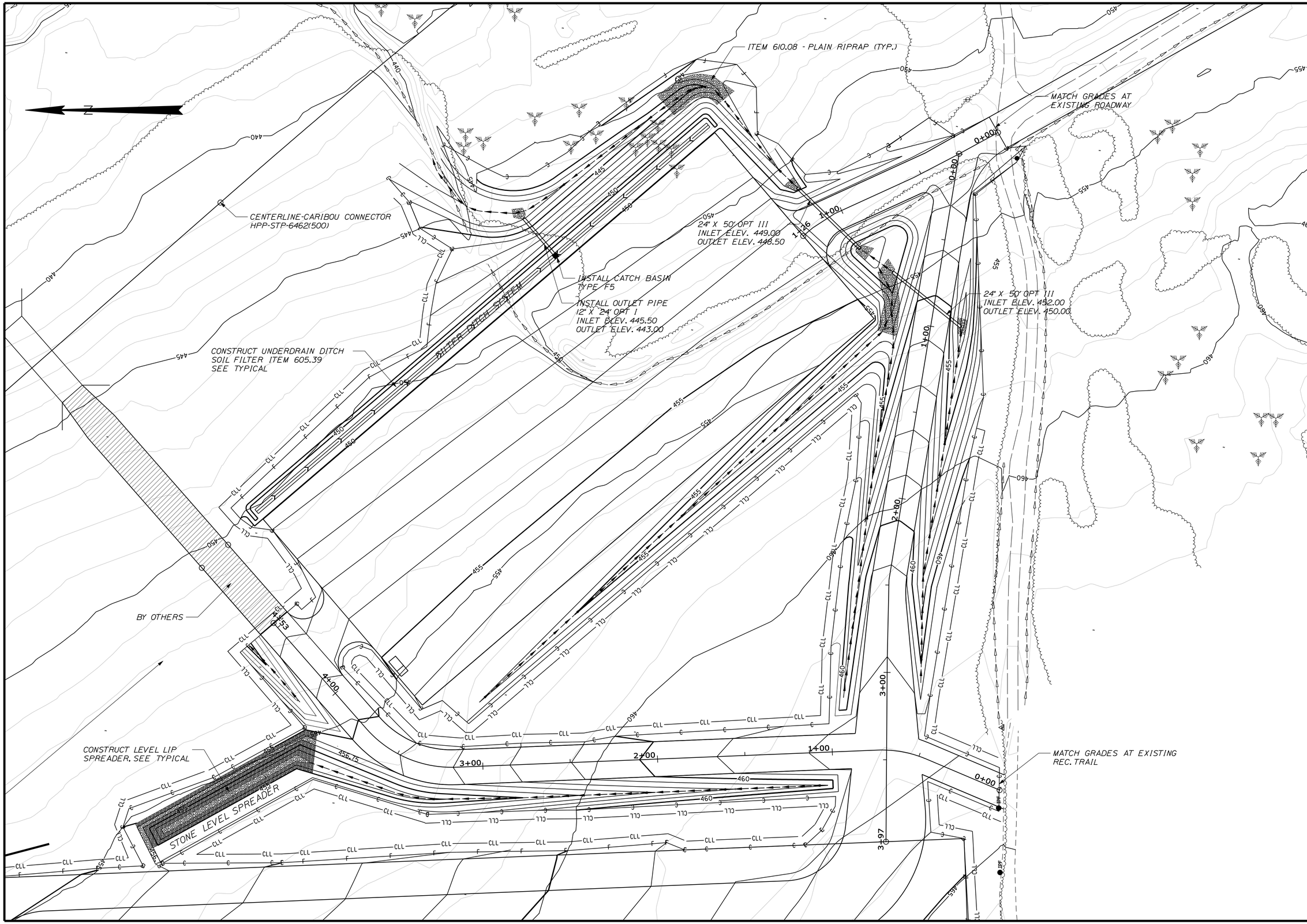
DATE

CARIBOU
TRAIL HEAD PARK & RIDE

QUANTITIES, NOTES & E.W. SUMMARY

SHEET NUMBER
3
OF 13

Filename: ...\003_GeneralNotes1.dgn Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HPP-6462(800)X

WIN 6462.80

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JON BITHER		
DESIGN-DETAILED	S. MAYNARD		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

CARIBOU TRAIL HEAD PARK & RIDE

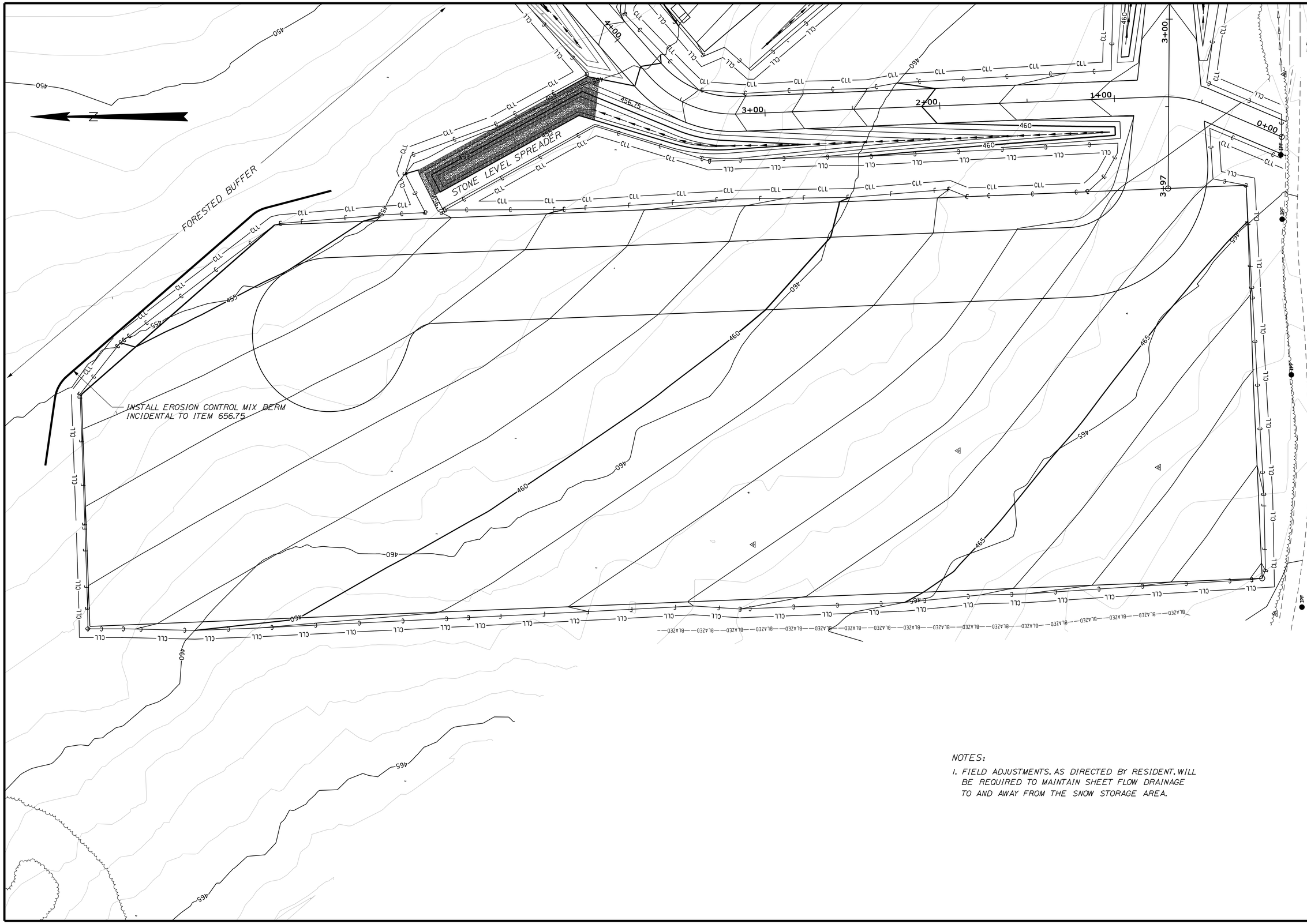
GRADING PLAN

SHEET NUMBER

4

OF 13

Filename: ...\park & ride\004_HDPlan1.dgn Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011



NOTES:

1. FIELD ADJUSTMENTS, AS DIRECTED BY RESIDENT, WILL BE REQUIRED TO MAINTAIN SHEET FLOW DRAINAGE TO AND AWAY FROM THE SNOW STORAGE AREA.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HPP-6462(800)X

WIN 6462.80

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JON BITHER		
DESIGN-DETAILED	S. MAYNARD		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

CARIBOU
TRAIL HEAD PARK & RIDE

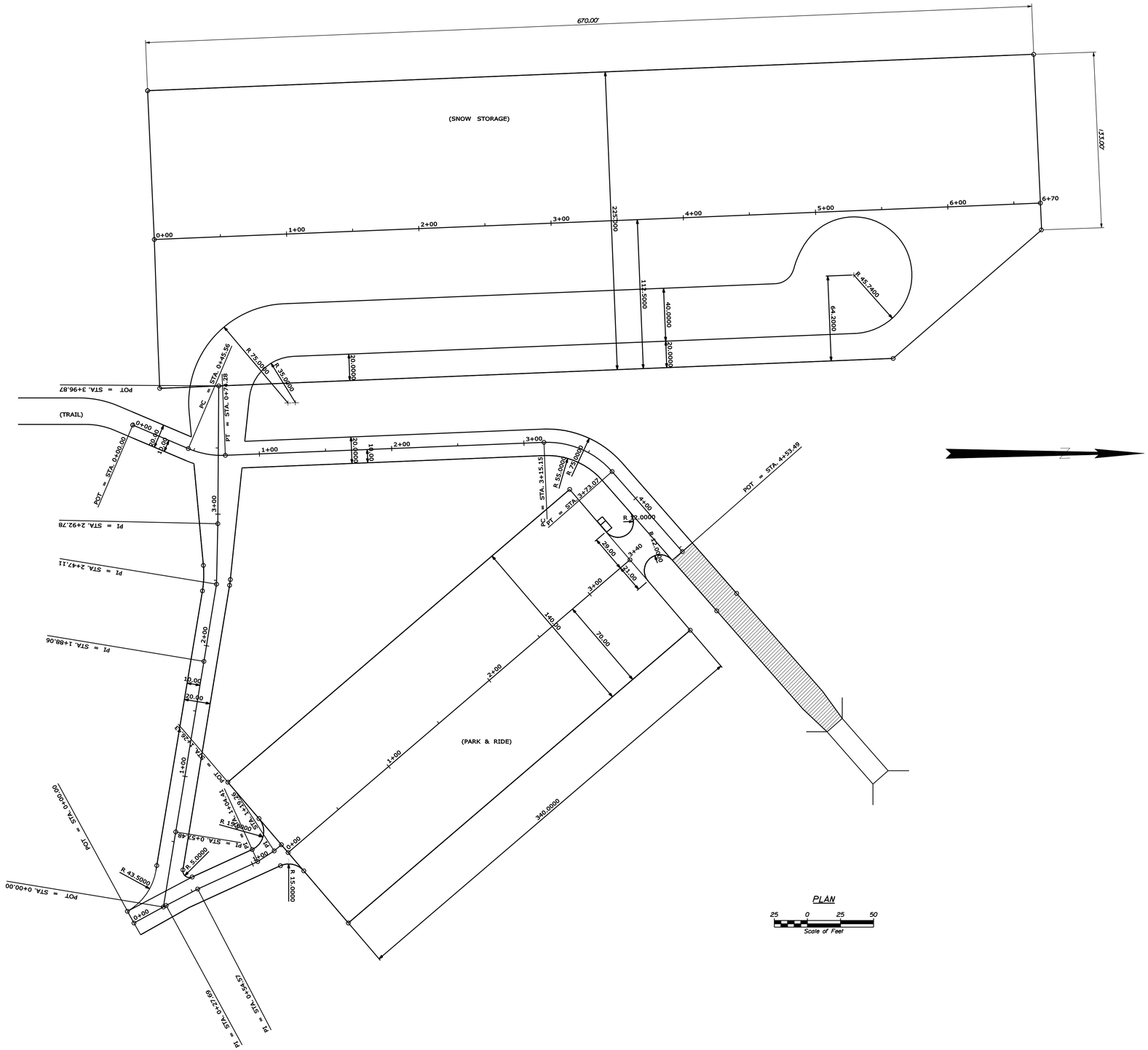
GRADING PLAN

SHEET NUMBER

5

OF 13

Filename: ...\park & ride\005_HDPlan2.dgn Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011



SNOW DUMP CENTERLINE

STA	NORTHING	EASTING
POT 0+00.00	1110079.03	2266296.83
POT 6+70.00	1110728.46	2266269.31

Tangent Direction: N 2°21'14" W
Tangent Length: 670.0000

PARK & RIDE CENTERLINE

STA	NORTHING	EASTING
POT 0+00.00	1110180.13	2266759.90
POT 3+40.00	1110438.40	2266538.77

Tangent Direction: N 40°34'15" W
Tangent Length: 340.0000

TRAIL CENTERLINE

STA	NORTHING	EASTING
POT 0+00.00	1110062.76	2266436.98

Tangent Direction: N 22°58'37" E
Tangent Length: 45.5602

PC 0+45.56 1110104.70 2266454.77
PI 0+60.16 1110118.14 2266460.46
Radius: 65.0000
Delta: 25°18'41" Left
Degree of Curvature(Arc): 88°08'50"
Length: 28.7149
Tangent: 14.5956
Chord: 28.4820
Middle Ordinate: 1.5792
External: 1.6186
Tangent Direction: N 22°58'37" E
Radial Direction: S 67°01'23" E
Chord Direction: N 10°19'16" E
Radial Direction: N 87°39'56" E
Tangent Direction: N 2°20'04" W
PT 0+74.28 1110132.73 2266459.87

Tangent Direction: N 2°20'04" W
Tangent Length: 240.8748

PC 3+15.15 1110373.40 2266450.06
PI 3+46.19 1110404.42 2266448.79
Radius: 65.0000
Delta: 51°03'16" Right
Degree of Curvature(Arc): 88°08'50"
Length: 57.9195
Tangent: 31.0414
Chord: 56.0222
Middle Ordinate: 6.3453
External: 7.0317
Tangent Direction: N 2°20'04" W
Radial Direction: N 87°39'56" E
Chord Direction: N 23°11'34" E
Radial Direction: S 41°16'48" E
Tangent Direction: N 48°43'12" E
PT 3+73.07 1110424.90 2266472.12
Tangent Direction: N 48°43'12" E
Tangent Length: 80.4229

POT 4+53.49 1110477.95 2266532.56

PARK & RIDE ENTRANCE CENTERLINE

STA	NORTHING	EASTING
POT 0+00.00	1110063.67	2266813.11

Tangent Direction: N 28°35'50" W
Tangent Length: 27.6928

PI 0+27.69 1110087.98 2266799.86

Tangent Direction: N 27°32'22" W
Tangent Length: 26.8751

PI 0+54.57 1110111.81 2266787.43
Tangent Direction: N 24°34'18" W
Tangent Length: 49.8424

PI 1+04.41 1110157.14 2266766.71
Tangent Direction: N 32°55'38" W
Tangent Length: 14.8537

PI 1+19.26 1110169.61 2266758.63

Tangent Direction: N 40°34'15" W
Tangent Length: 7.1689

POT 1+26.43 1110175.06 2266753.97

SNOW DUMP ENTRANCE CENTERLINE

STA	NORTHING	EASTING
POT 0+00.00	1110085.87	2266801.01

Tangent Direction: N 80°37'17" W
Tangent Length: 57.4832

PI 0+57.48 1110095.24 2266744.30

Tangent Direction: N 80°37'17" W
Tangent Length: 130.5814

PI 1+88.06 1110116.52 2266615.46

Tangent Direction: N 80°44'12" W
Tangent Length: 59.0479

PI 2+47.11 1110126.02 2266557.18

Tangent Direction: N 88°44'15" W
Tangent Length: 45.6666

PI 2+92.78 1110127.03 2266511.53
Tangent Direction: N 89°37'08" W
Tangent Length: 104.0932
POT 3+96.87 1110127.72 2266407.44

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HPP-6462(800)X

WIN 6462.80

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	JON BITHER	
DESIGN-DETAILED	S. MAYNARD	R. BARNES	2011
CHECKED-REVIEWED	D.EMERCHANT	D.EMERCHANT	2011
DESIGN2-DETAILED2		R. SULLIVAN	2011
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

CARIBOU
TRAIL HEAD PARK & RIDE

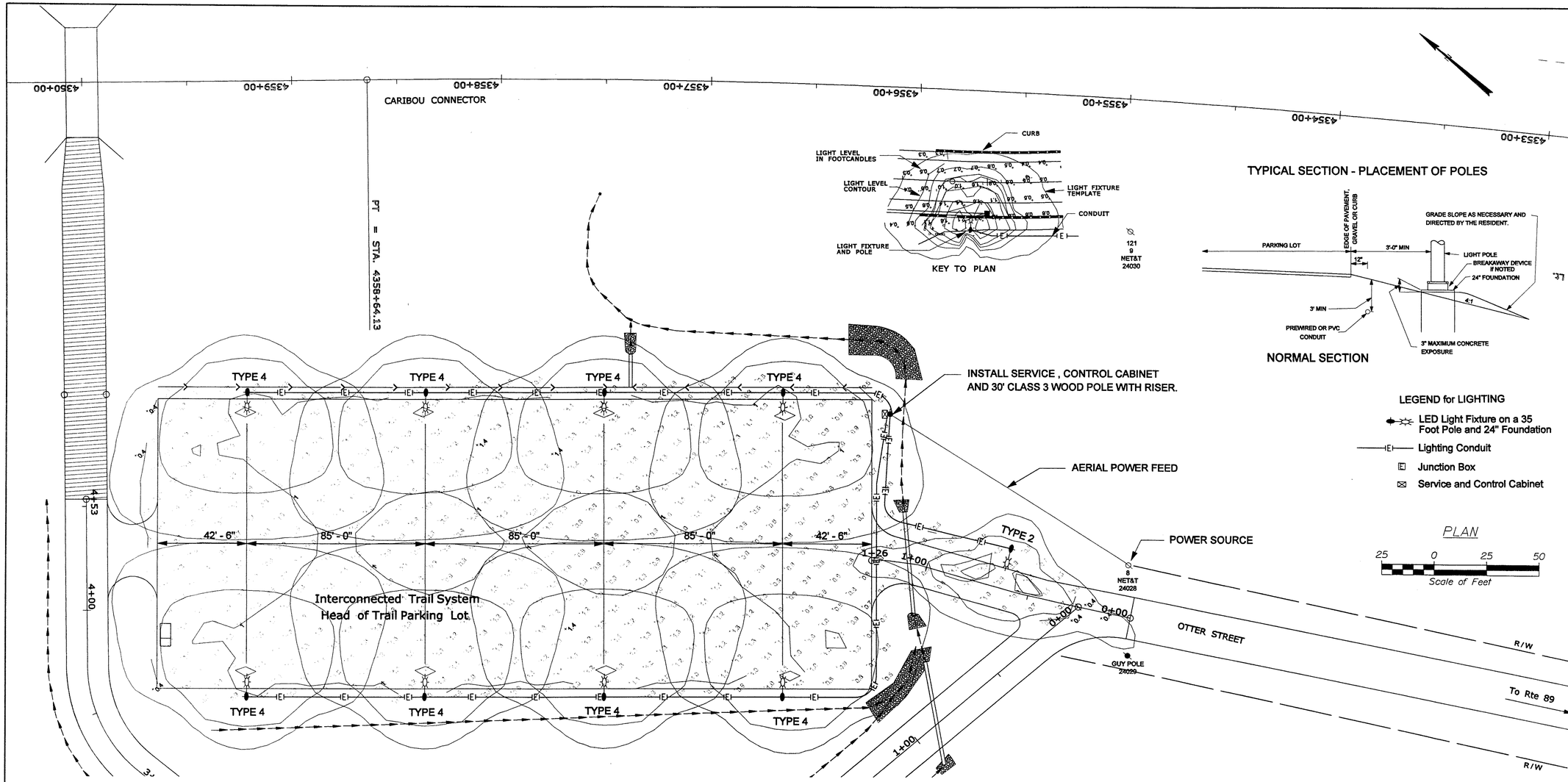
GEOMETRICS AND LAYOUT

SHEET NUMBER

6

OF 13

Filename: ...\006_Geometry Plan.dgn Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011



GENERAL NOTES - LIGHTING

1. SCOPE OF WORK - INSTALL LIGHTING AS SHOWN ON THE PLANS. INSTALL FOUNDATIONS, POLES, LUMINAIRES, AND CONDUIT AS NOTED.
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO APPLICABLE PROVISIONS OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DETAILS, NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE POWER COMPANY.
3. THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS TO AVOID NATURAL AND BUILT SITE FEATURES THAT WOULD CONFLICT WITH PROPER INSTALLATION OF POLE FOUNDATIONS.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO ENSURE AWARENESS OF SITE CONDITIONS THAT COULD AFFECT THE BID.
5. LOCATIONS OF LIGHTING RELATED ITEMS ARE APPROXIMATE AND MAY BE ADJUSTED BY THE RESIDENT IN THE FIELD.
6. FIXTURES SHALL BE IES FULL CUTOFF, LIGHT EMITTING DIODE (LED) COBRAHEAD STYLE FIXTURES, ZERO DEGREE TILT, 240 VOLTS. INSTALL THE FIXTURES ON 35 FOOT POLES WITH 6 FOOT BRACKET ARMS AT LOCATIONS SHOWN. POLES CAN BE ALUMINUM OR GALVANIZED STEEL.
7. ALL FIXTURES SHALL BE GRAY.
8. THE LIGHTING LAYOUT WAS DONE USING COOPER LIGHTING, LUMARK COBRAHEAD STYLE LED LUMINAIRES, CATALOG NUMBER -
   LDRL-T4S-A06 - 8 IES TYPE 4 FIXTURES
   LDRL-T2S-A03 - 1 IES TYPE 2 FIXTURE

   IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL BE IES FULL CUTOFF, TYPE 2 AND 4 IES DISTRIBUTION. THE CONTRACTOR MUST DEMONSTRATE THAT THE PROPOSED FIXTURES WILL MEET OR EXCEED THE LIGHT LEVELS ON THE PLANS.
9. WIRE SIZE SHALL BE #10 STRANDED COPPER. CONDUIT SHALL BE 2" PVC SCHEDULE 40. CONDUIT CROSSING UNDER TRAVELED WAY SHALL BE SCHEDULE 80 PVC.
10. THERE SHALL BE NO SPLICES OR JUNCTION BOXES BETWEEN POLES. THE WIRE IN CONDUITS SHALL BE CONTINUOUS BETWEEN POLES.
11. THE LENGTH OF CONDUIT IS FOR ESTIMATING PURPOSES. THE CONTRACTOR SHALL DETERMINE ACTUAL LENGTH BY FIELD MEASUREMENT BEFORE ORDERING.
12. IF STRUCTURAL ROCK IS ENCOUNTERED DURING INSTALLATION OF FOUNDATIONS, PAYMENT FOR EXCAVATION AND DOWELING REINFORCING INTO ROCK SHALL BE CONSIDERED INCIDENTAL TO FOUNDATION ITEMS.
13. PAYMENT UNDER ITEM 634.16, HIGHWAY LIGHTING, WILL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PROVIDE A FULLY FUNCTIONING LIGHTING SYSTEM, EXCEPT THOSE ITEMS TO BE PAID UNDER OTHER RELATED BID ITEMS IN THE CONTRACT.
14. ALL LIGHT BASES SHALL HAVE A GROUND ROD, LOCATED IN THE FOUNDATION, THAT IS BONDED TO THE GROUNDING CONDUCTOR. PAYMENT FOR THE GROUND ROD SHALL BE INCLUDED IN ITEM 634.16, HIGHWAY LIGHTING.
15. PAYMENT UNDER ITEM 634.21, CONVENTIONAL LIGHT STANDARD, WILL INCLUDE BUT NOT BE LIMITED TO NEW POLES, TRANSFORMER BASES AND NEMA TWISTLOCK PHOTO CONTROL.

LUMINAIRE SCHEDULE

Symbol	Qty	Catalog Number	Description	File	Lumens	LLF	Watts
	1	LDRL-T2S-A03	RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE (3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 SHORT	LDRL-T2S-A03.ies	Absolute	0.81	80
	8	LDRL-T4S-A06	RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE (6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT	LDRL-T4S-A06.ies	Absolute	0.81	156

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Park & Ride Lot	+	1.0 fc	1.4 fc	0.4 fc	3.5:1	2.5:1

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HPP-STP-6462(800)

WIN
6462.80

HIGHWAY PLANS

STATE OF MAINE
ALBERT L. GOSTELOW
No. 1238
LICENSED
PROFESSIONAL ENGINEER

SIGNATURE
4226
P.E. NUMBER
6/30/2011
DATE

PROJ. MANAGER	RAL
DESIGN-DETAILED	RAL
CHECKED-REVIEWED	ALG
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

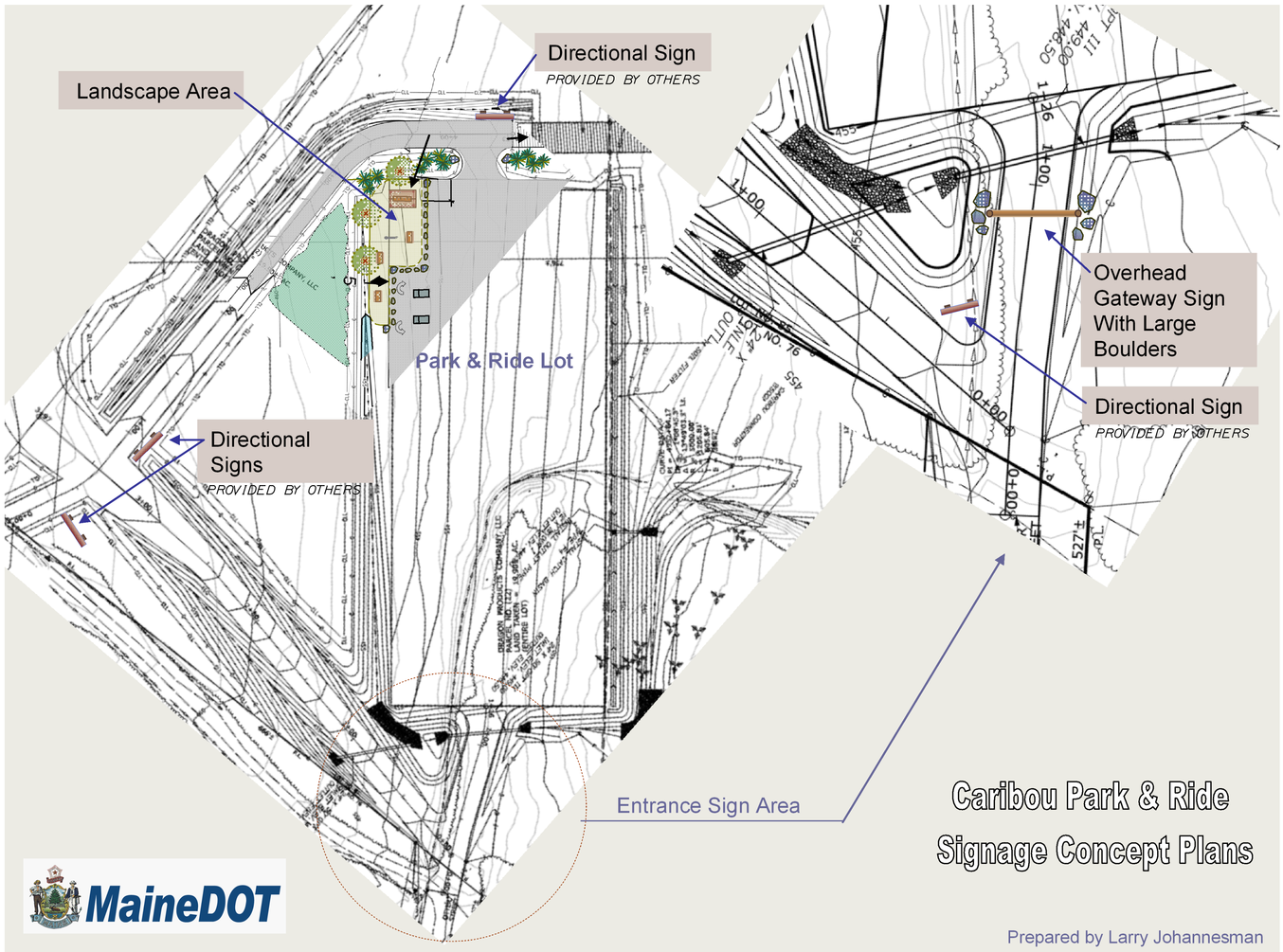
PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	RAL	JUNE, 2011
CHECKED-REVIEWED	ALG	JUNE, 2011

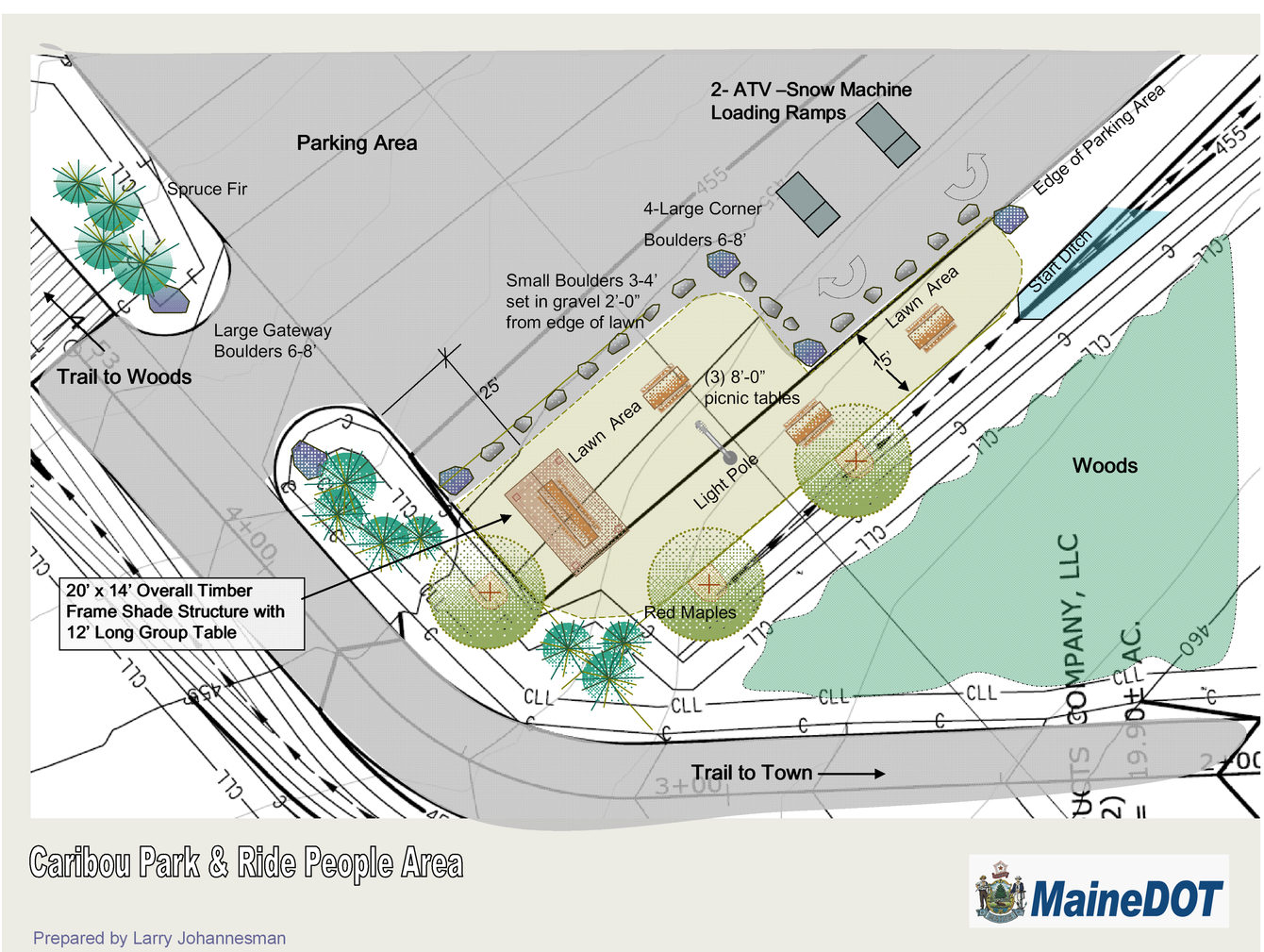
CARIBOU
ITS PARK & RIDE

LIGHTING PLAN

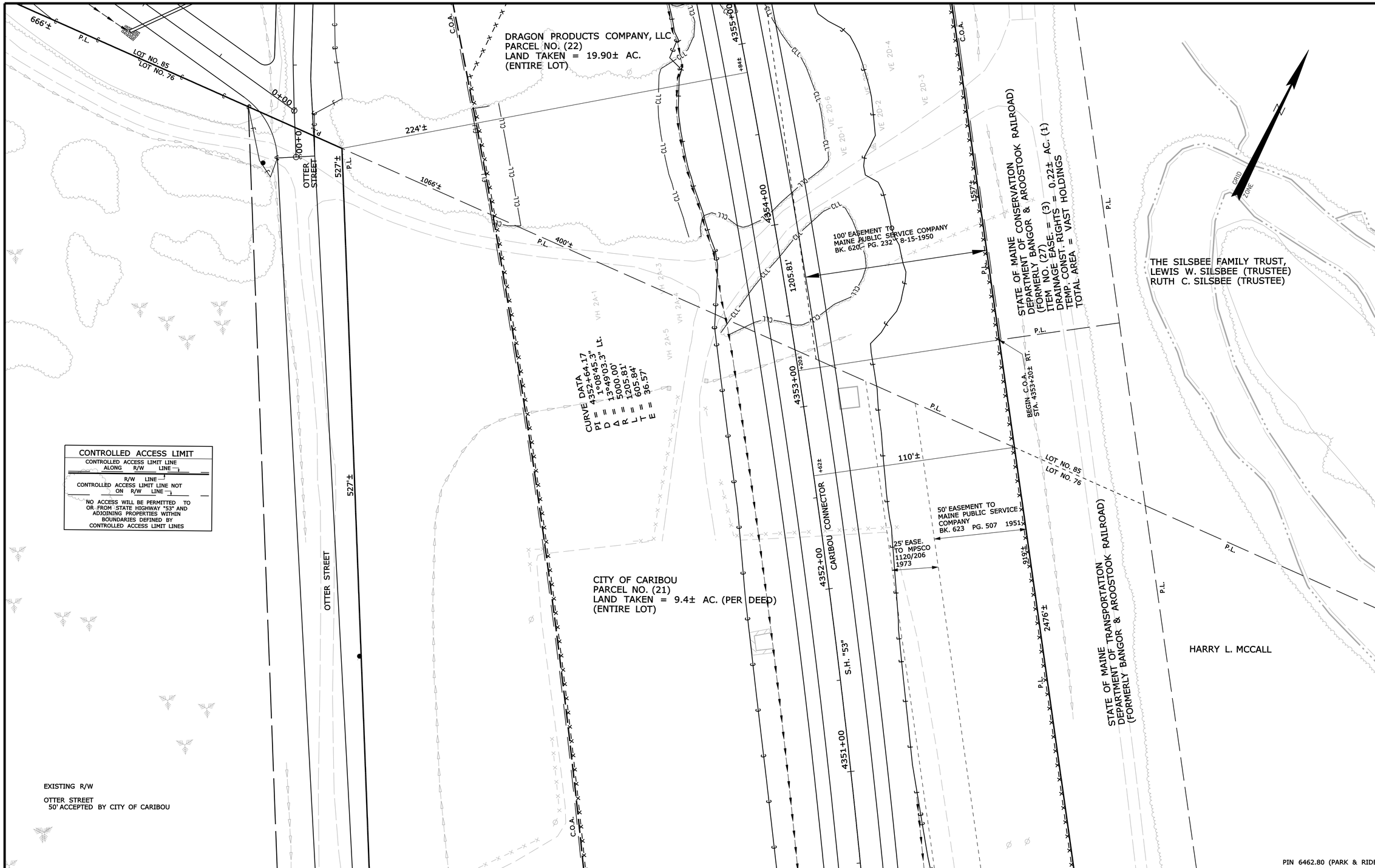
SHEET NUMBER
7
OF 13

Filename: ...\LightingPlanSht.dgn Division: HIGHWAY Username: jeason Date:6/28/2011





SHEET NUMBER 8 OF 13	CARIBOU TRAIL HEAD PARK & RIDE LANDSCAPE PLAN	PROJ. MANAGER JON BITHER	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
		DESIGN-DETAILED L. JOHANNESMAN			HPP-6462(800)X
		CHECKED-REVIEWED			SIGNATURE
		DESIGN2-DETAILED2			
		DESIGN3-DETAILED3			P.E. NUMBER
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			DATE
		REVISIONS 4			
		FIELD CHANGES			WIN 6462.80 HIGHWAY PLANS



SYMBOLS

- IP or IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- BM (TRAVERSE POINT)
- WATER LINE
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- CONSTRUCTION LIMIT LINE
- PROPERTY LINE PL
- LIMITS OF WROUGHT PORTION (L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	D.S.G.	
PROP. LINES	D.S.G.	
AREAS		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
CARIBOU
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
	PART 3	COND.	3/28/11	4924	130

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

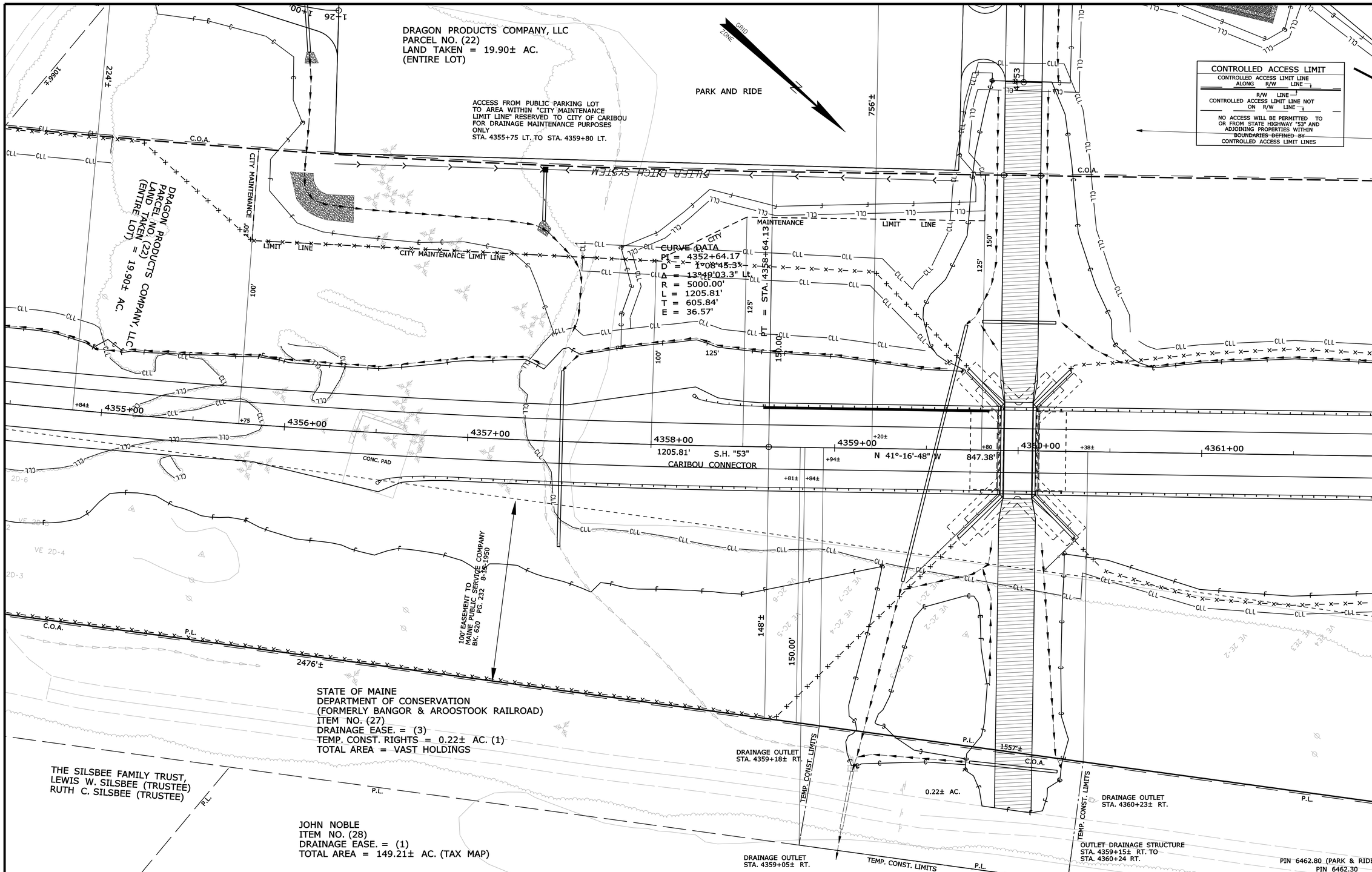
STATE OF MAINE
PETER A. BELANGER 1341
PROFESSIONAL LAND SURVEYOR

STATE HIGHWAY "53"
CARIBOU CONNECTOR
CARIBOU AROOSTOOK COUNTY
FEDERAL AID PROJECT NO. STP-6462(300) PART III

NOVEMBER 2010 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 2-527
SCALE 1" = 25' | SHEET 14 OF 42

SHEET NUMBER
9
OF 13

Filename: ...\009_RWPLAN_PARK & RIDE.DGN Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
CARIBOU
RIGHT OF WAY MAP

REVISIONS

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1.	6/2011	ADDED ITEM NOS. 27 & 28	D.S.G.

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STATE HIGHWAY "53"
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FEDERAL AID PROJECT NO. STP-6462(300) PART III

NOVEMBER 2010 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 2-527
SCALE 1" = 25' | SHEET 15 OF 42

SHEET NUMBER
10
OF 13

Filename: ...\010_RWPLAN_PARK & RIDE.DGN Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011

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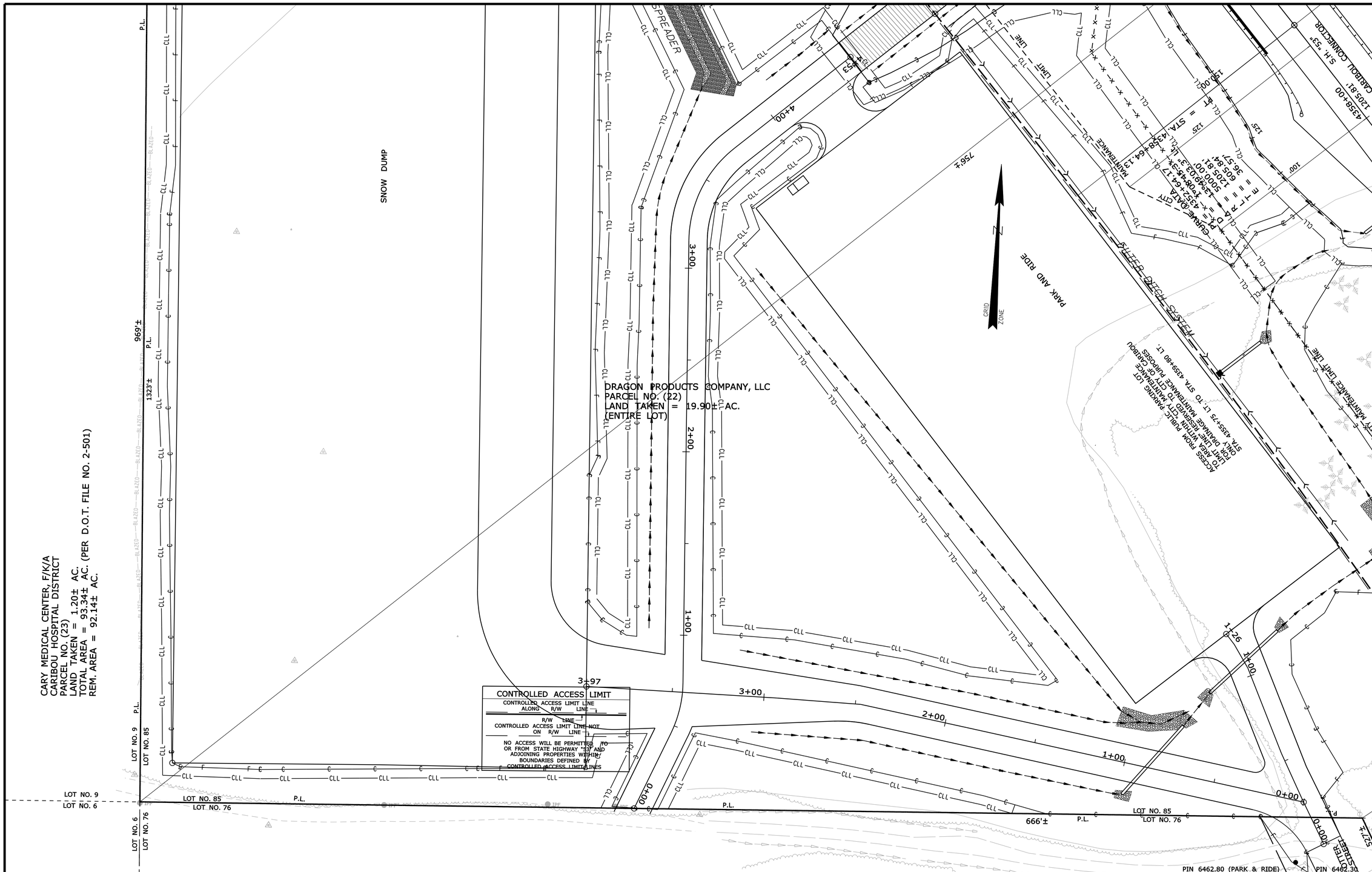

ITEM	TECH	CHECKED
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PROP. LINES	D.S.G.	
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STATE OF MAINE
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16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

CARIBOU
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PROFESSIONAL LAND SURVEYOR

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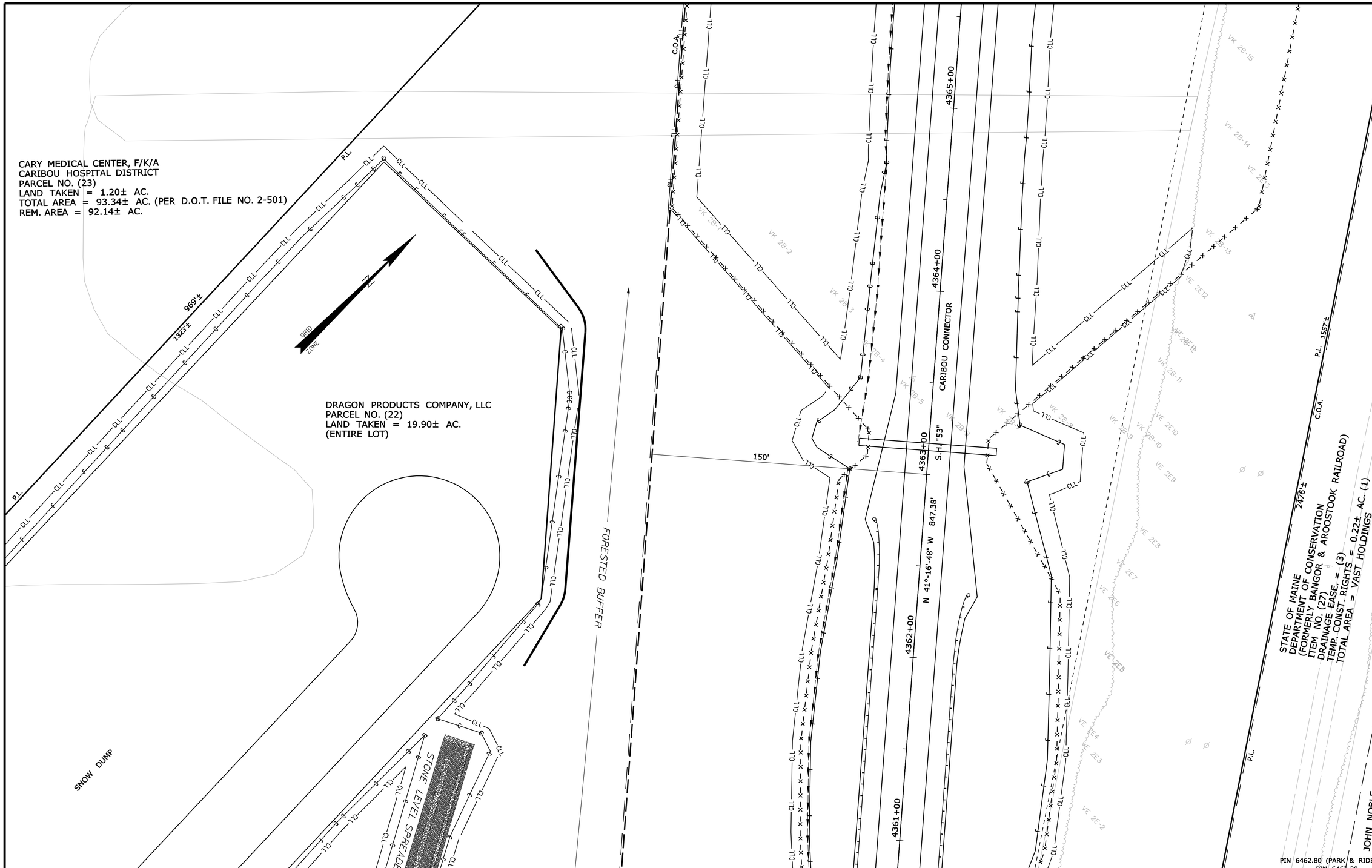
FEDERAL AID PROJECT NO. STP-6462(300) PART III

NOVEMBER 2010 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 2-527
SCALE 1" = 25' | SHEET 16 OF 42

SHEET NUMBER
11
OF 13



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NOVEMBER 2010 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 2-527
SCALE 1" = 25' | SHEET 17 OF 42

SHEET NUMBER
12
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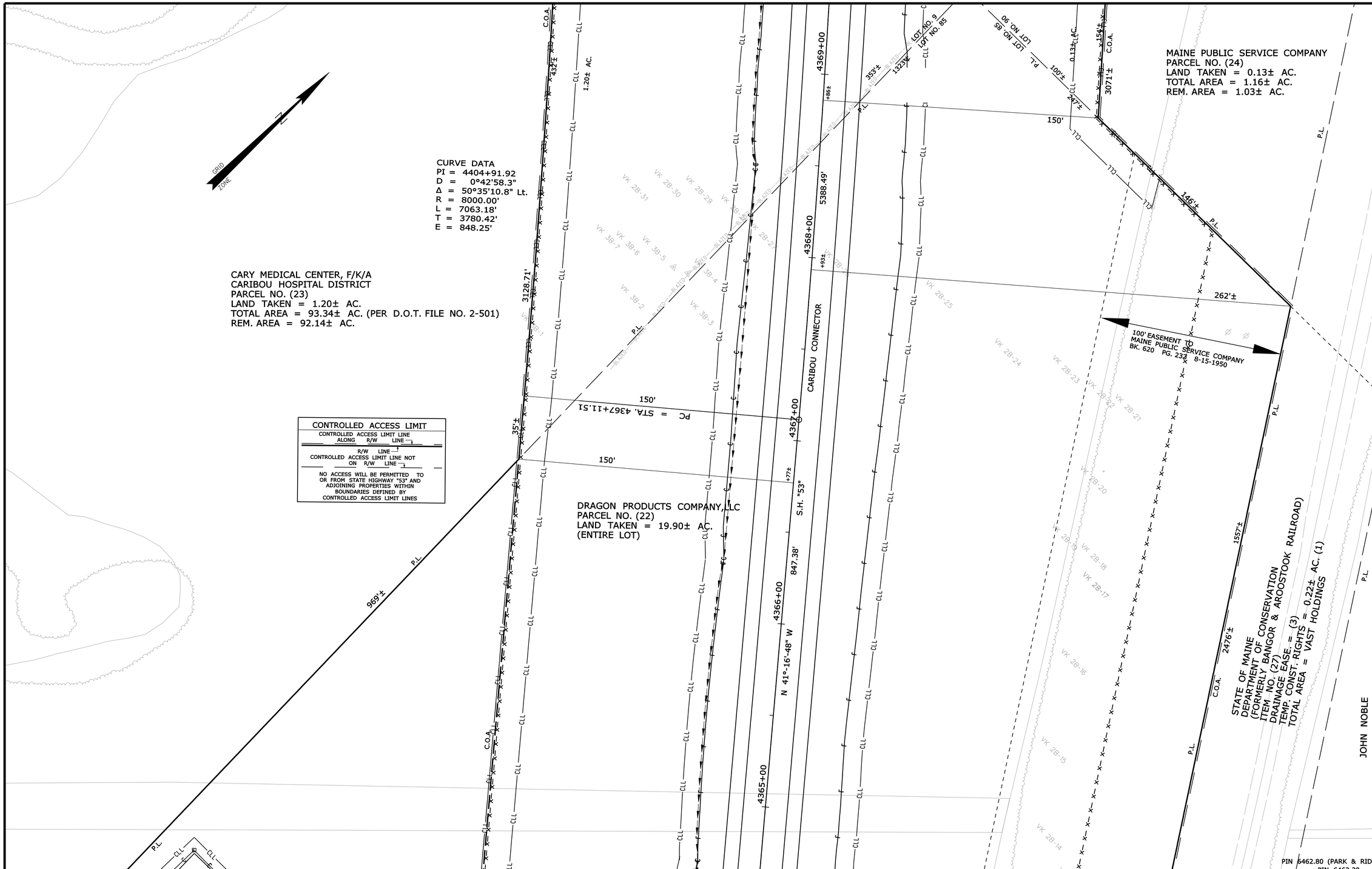
Filename: ...\012_RWPLAN_PARK & RIDE.DGN Division: HIGHWAY Username: Raymond.Demerchant Date:8/18/2011



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