

# 2001-0320

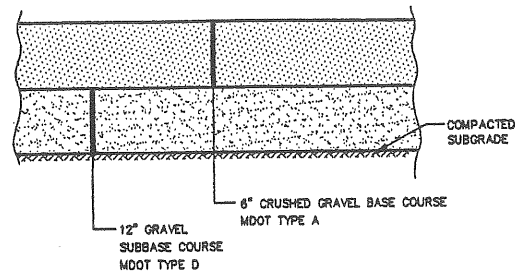
114A-A-1

96 Falmouth St.

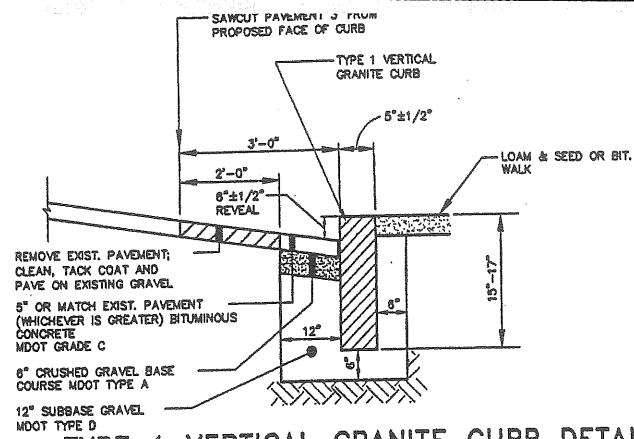
Parking Lots  
USM



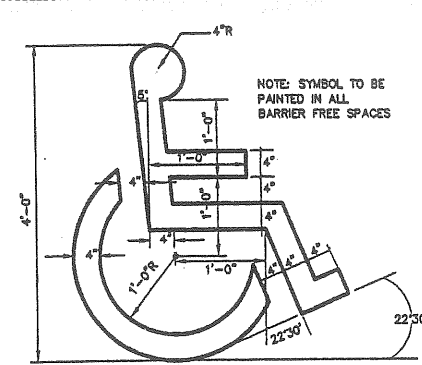
1. MDOT TYPE D AGGREGATE GRADATION SHALL BE MODIFIED FOR A MAXIMUM 4" STONE SIZE AND LIMIT #200 SIEVE TO 5% PASSING.



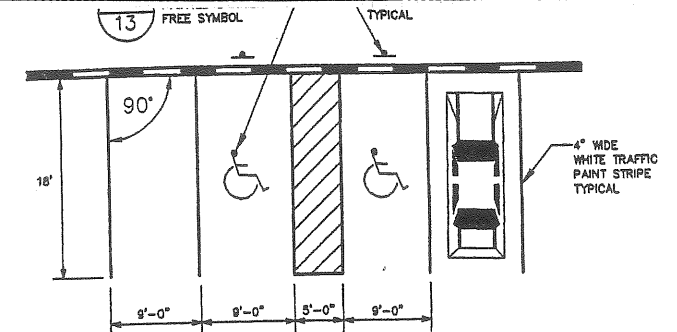
**TYPICAL GRAVEL PARKING AREA SECTION DETAIL**  
N.T.S.



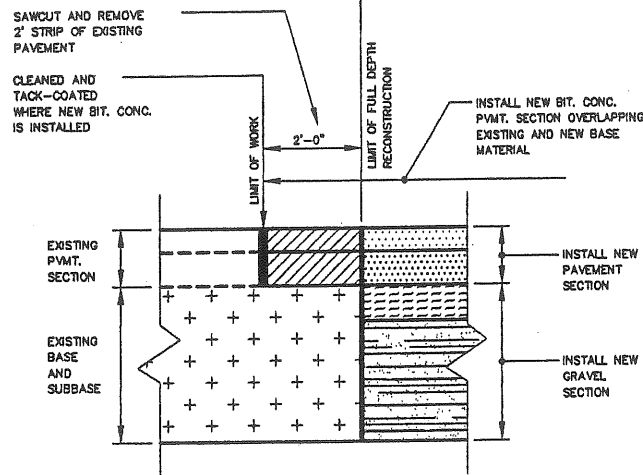
**TYPE 1 VERTICAL GRANITE CURB DETAIL**  
N.T.S.



**PAINTED BARRIER FREE SYMBOL**  
N.T.S.

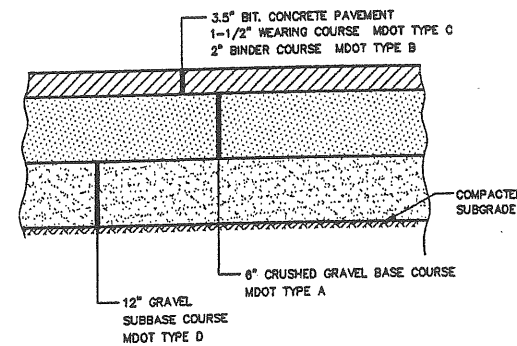


**TYPICAL PARKING SPACE DIMENSIONS**  
N.T.S.

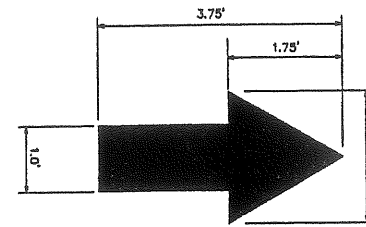


**NEW PAVEMENT ADJACENT TO EXISTING PAVEMENT SAWCUT DETAIL**  
N.T.S.

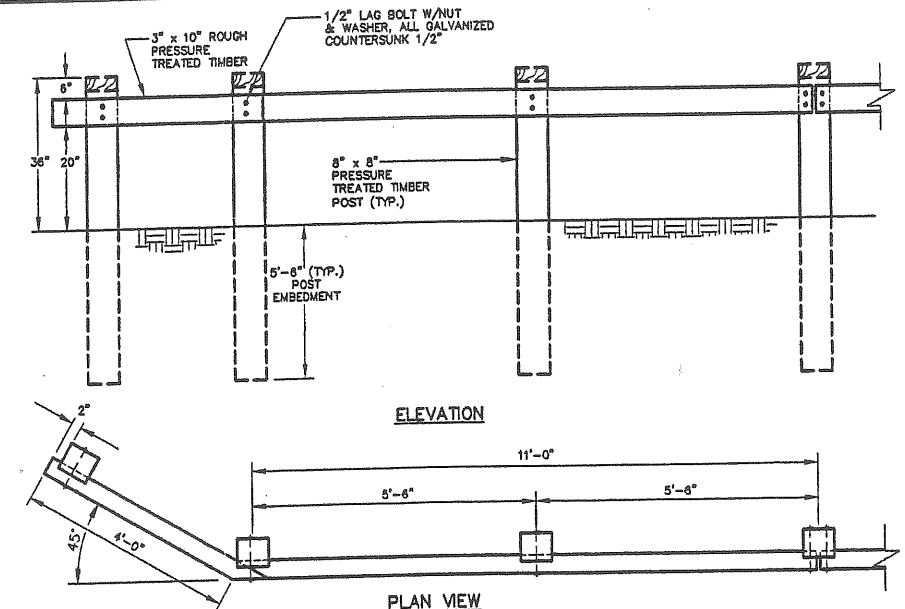
NOTES:  
1. MDOT TYPE D AGGREGATE GRADATION SHALL BE MODIFIED FOR A MAXIMUM 4" STONE SIZE AND LIMIT #200 SIEVE TO 5% PASSING.



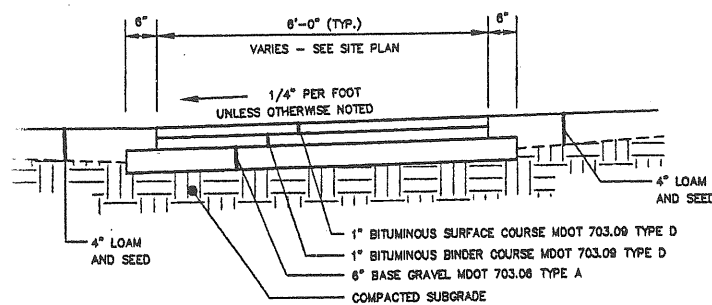
**DRIVE & PARKING AREA PAVEMENT SECTION DETAIL**  
N.T.S.



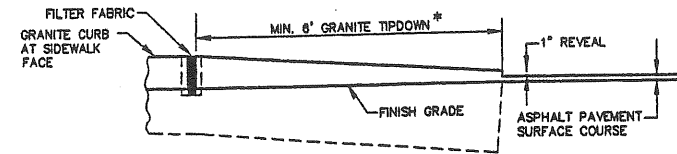
**TYPICAL TRAFFIC FLOW ARROW PAVEMENT MARKING**  
N.T.S.



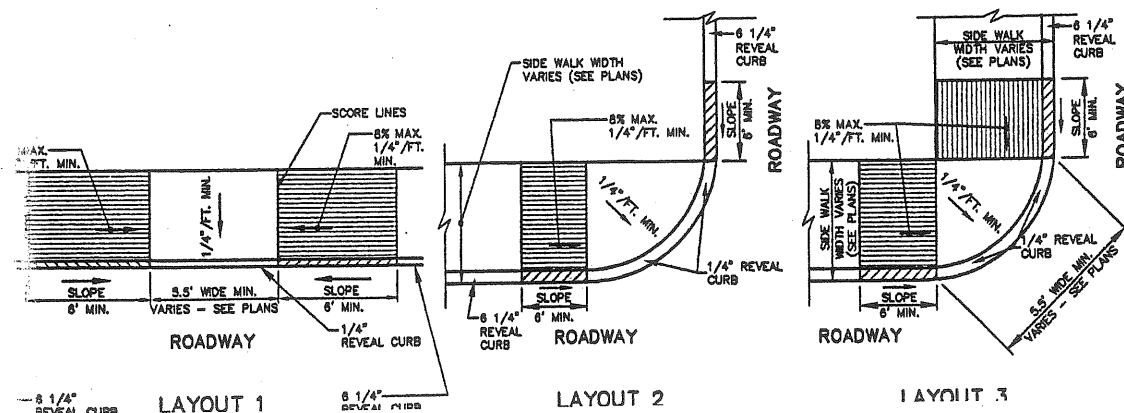
**TIMBER GUIDERAIL DETAIL**  
N.T.S.



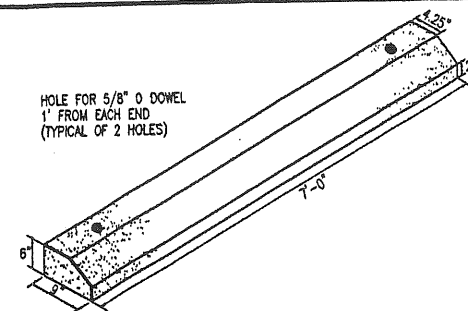
**BITUMINOUS SIDEWALK DETAIL**  
N.T.S.



**CURB INSTALLATION TYPICAL TIPDOWN**  
N.T.S.



LAYOUT 1      LAYOUT 2      LAYOUT 3



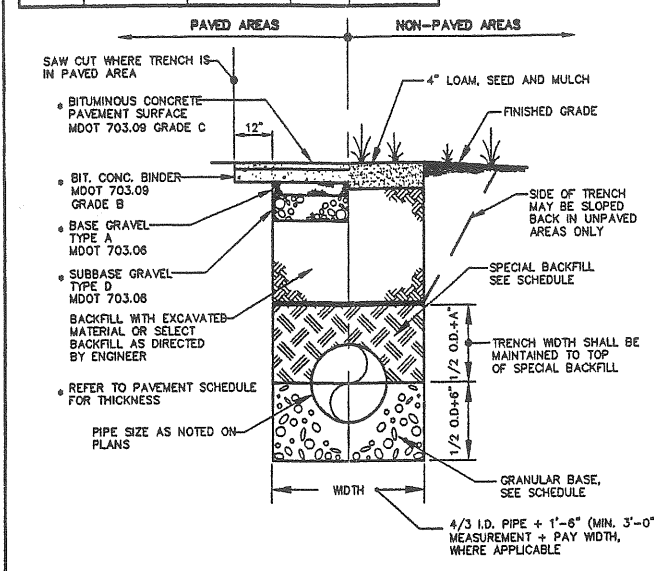
**PRECAST CONCRETE WHEEL STOP DETAIL**  
N.T.S.

**PRELIMINARY NOT FOR CONSTRUCTION**

**TRENCH SECTION BACKFILL SCHEDULE**

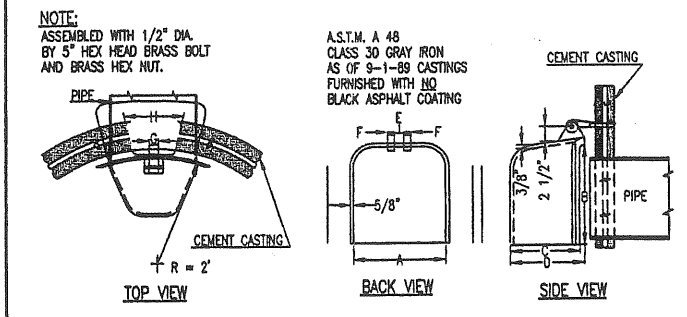
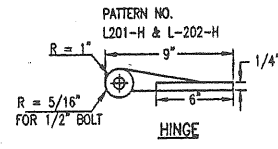
TYPE OF PIPE	GRANULAR BASE MATERIAL	SPECIAL BACKFILL	SPECIAL BACKFILL COVER "A" (ft)	SELECT BACKFILL
PVC	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	6"	GRANULAR AASHTO M145-49 A-3 OR BETTER
RCP	3/4" CRUSHED STONE	GRANULAR AASHTO M145-49 A-3 OR BETTER	12"	GRANULAR AASHTO M145-49 A-3 OR BETTER

**NOTE:**  
BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

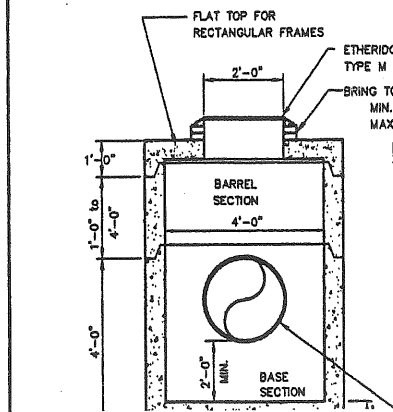


**TYPICAL UTILITY PIPE TRENCH SECTION**  
N.T.S.

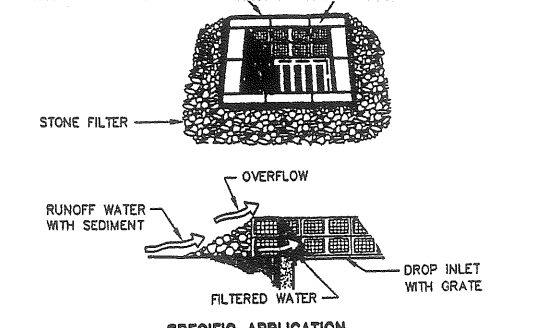
DIMENSIONS	A	B	C	D	E	F	G	H
10" PIPE	18	18	10	11.25	2	1	1.875	14



**CATCH BASIN TRAP DETAIL**  
N.T.S.



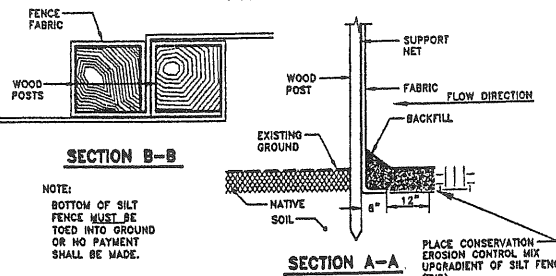
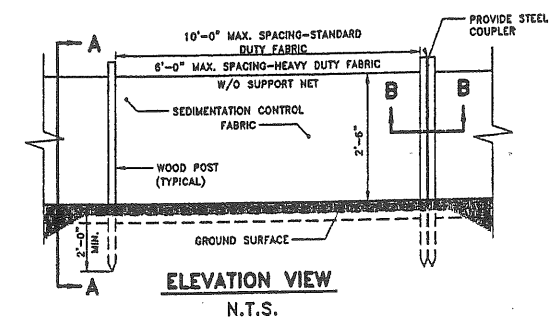
- DESIGN NOTES:**
1. ALL CONCRETE TO HAVE A MIN. OF 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
  2. DESIGN LOAD FOR H-20 WHEEL LOAD.
  3. CATCH BASIN TO CONFORM TO ASTM-C478 SPECIFICATIONS.
  4. REINFORCE TO 0.12 IN SQ./LF.
  5. A CATCH BASIN TRAP SHALL BE INSTALLED ON THE OUTLET PIPE OF



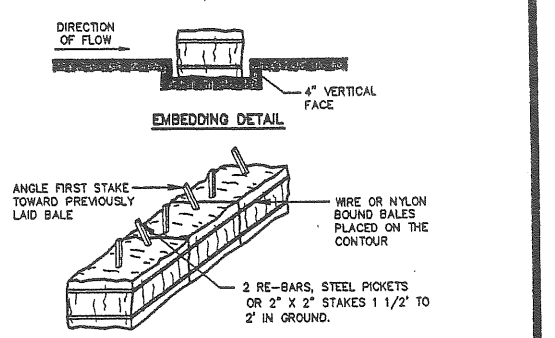
**THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.**

- NOTES:**
1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4", 8" AND 12" WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12 INCHES HIGH, AND NO GREATER THAN 24" HIGH.
  2. WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE USED.
  3. STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER, AS SHOWN IN DETAIL. THE STONE FILTER SHALL BE 3/4" CRUSHED STONE.
  4. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

**STONE SEDIMENT BARRIER**  
N.T.S.



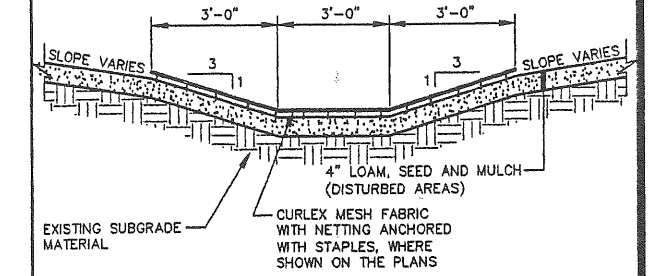
**SILTATION FENCE DETAIL**  
N.T.S.



**ANCHORING DETAIL**

- CONSTRUCTION SPECIFICATIONS**
1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
  2. Each bale shall be embedded in the soil a minimum of 4".
  3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale was angled toward previously laid bale to force bales together.
  4. Inspection will be frequent and repair or replacement shall be made promptly as needed.
  5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

**STRAW OR HAY BALE BARRIER**  
N.T.S.



**VEGETATED SWALE DETAIL**  
N.T.S.

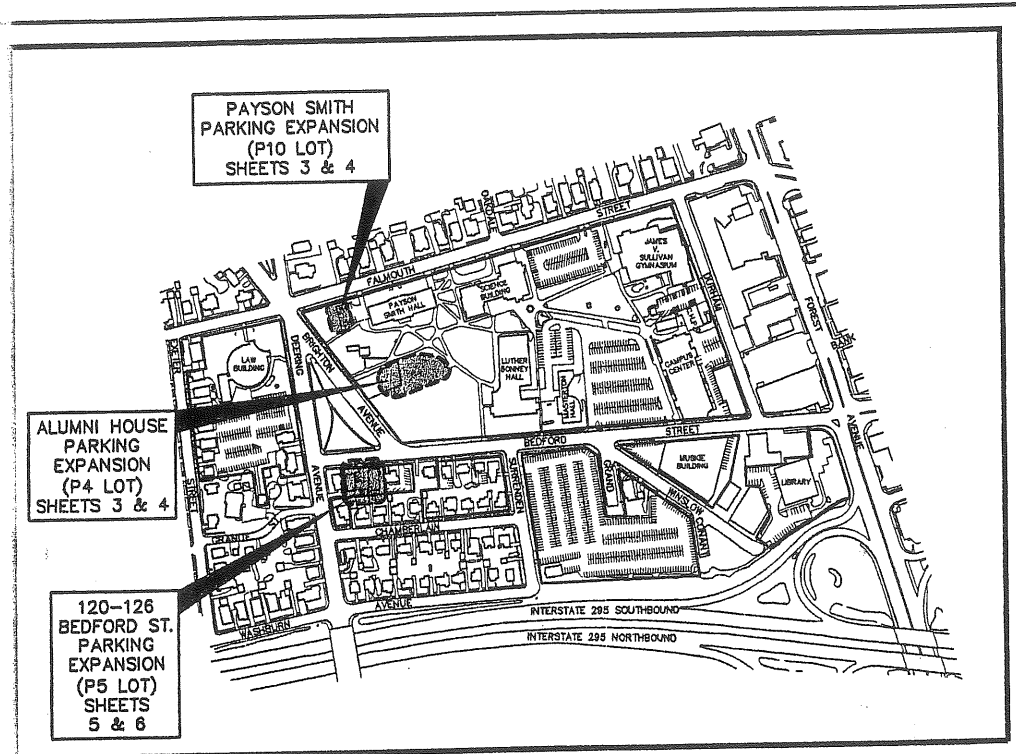
**PRELIMINARY NOT FOR CONSTRUCTION**

# FOR VEHICULAR PARKING LOT IMPROVEMENTS

UNIVERSITY OF SOUTHERN MAINE

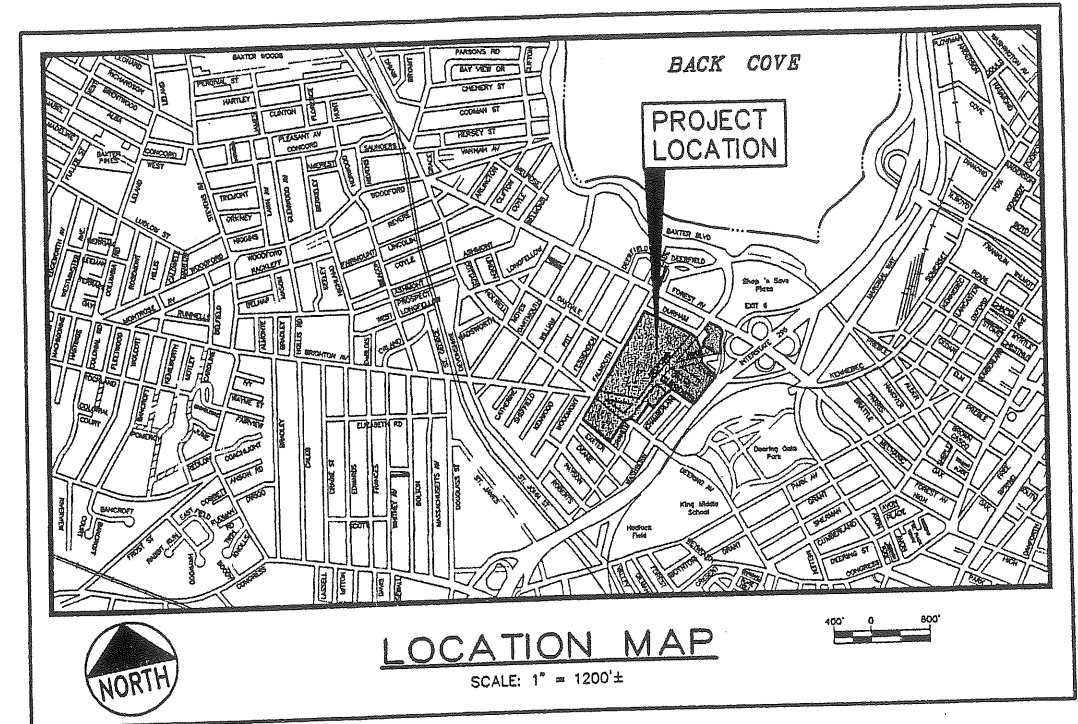
PORTLAND CAMPUS

DECEMBER 2001



**PROJECT VICINITY MAP**

SCALE: 1" = 300'±



**LOCATION MAP**

SCALE: 1" = 1200'±

**APPLICANT (FOR THE PURPOSE OF  
SECURING LOCAL SITE PLAN APPROVALS  
AND STATE SITE LOCATION  
PERMIT MODIFICATION)**

UNIVERSITY OF MAINE SYSTEM  
107 MAINE AVENUE  
BANGOR, MAINE 04401-4380  
Tel: (207) 973-3334

**PROJECT SITE PARCELS**

TAX MAP	BLOCK	LOT NO.	LAND OWNER
51	E	1, 6, 7, 12, 14, 15, 16, 17, 18, 19, 22	UNIVERSITY OF MAINE SYSTEM 107 MAINE AVENUE BANGOR, MAINE 04401-4380 Tel: (207) 973-3334
114	A	4, 12	
114	B	1, 2	
114	D	5, 23	
114A	A	1	
114A	G	6, 9, 10	

**UTILITIES**

- ELECTRICITY : CENTRAL MAINE POWER COMPANY  
ATTN: MR. ROBERT STOREY  
162 CANCO ROAD  
PORTLAND, ME 04103  
(207) 828-2821
- TELEPHONE : VERIZON COMMUNICATIONS  
ATTN: MR. JOSEPH RAYNES  
13 DAVIS FARM ROAD  
PORTLAND, ME 04103  
(207) 797-1867
- GAS : NORTHERN UTILITIES, INC.  
ATTN: MR. PERRY ROBICHAUD  
DISTRIBUTION DEPARTMENT  
1075 FOREST AVENUE  
PORTLAND, MAINE 04103  
(207) 797-8002, EXT. 6242
- OFFSITE SEWER AND STORM DRAIN : CITY OF PORTLAND  
ATTN: TODD MERKLE  
DEPARTMENT OF PUBLIC WORKS  
55 PORTLAND STREET  
PORTLAND, ME 04101  
(207) 874-8871
- OFFSITE WATER : PORTLAND WATER DISTRICT  
ATTN: MR. DAVID COFFIN  
225 DOUGLASS STREET  
P.O. BOX 3553  
PORTLAND, ME 04104-3553  
(207) 774-5961
- ONSITE SEWER, WATER, HEATING SYSTEM, TELEPHONE & ELECTRIC : UNIVERSITY OF SOUTHERN MAINE  
DEPARTMENT OF FACILITIES MANAGEMENT  
ATTN: DAVE EARLY  
(207) 780-4656
- DIG SAFE : 1-888-344-7233 (1-888-DIG-SAFE)

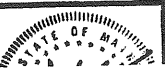
**PROJECT CONSULTANTS**

- CIVIL ENGINEER: DeLUCA-HOFFMAN ASSOCIATES, INC.
- SURVEYOR: OWEN HASKELL, INC.  
16 Casco Street

**PROJECT PERMITS**

- SITE PLAN/SPECIAL EXCEPTION APPROVAL : PORTLAND PLANNING BOARD  
ATTN: SARAH HOPKINS  
PORTLAND CITY HALL  
389 CONGRESS STREET  
PORTLAND, ME 04101-3503  
(207) 874-8300
- SITE LOCATION PERMIT MODIFICATION: MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION  
312 CANCO ROAD  
PORTLAND, ME 04103  
(207) 822-6300

PRELIMINARY  
NOT FOR CONSTRUCTION



**GENERAL NOTES:**

THIS PROJECT WILL BE SUBJECT TO THE TERMS AND CONDITIONS OF A MAINE DEP SITE LOCATION OF DEVELOPMENT PERMIT MODIFICATION AND CITY OF PORTLAND SITE PLAN APPROVAL, WHICH WILL BE MADE A PART OF THE CONTRACT BID DOCUMENTS.

THE CONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR CONSTRUCTION SPECIFICATIONS AND BIDDING PROCEDURES.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS AVAILABLE FROM THE UNIVERSITY & VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY, DIG SAFE, AND THE UNIVERSITY OF SOUTHERN MAINE DEPARTMENT OF FACILITIES MANAGEMENT AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE OWNER AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE OWNER.

ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.

ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND TO CITY OF PORTLAND CONSTRUCTION STANDARDS.

THE ORIGINAL EXISTING CONDITIONS AND TOPOGRAPHIC SURVEYS WERE PERFORMED BY OWEN HASKELL, INC. OF PORTLAND, MAINE, AND AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE. THE EXISTING CONDITIONS CONTAINED ON THIS PLAN SET ARE A COMPILED OF THE FIELD & AERIAL SURVEY PLANS. THE FOLLOWING BENCHMARKS HAVE BEEN ESTABLISHED FOR THIS PROJECT:

LD.	ELEVATION	DESCRIPTION
TBM #1	48.55	PK NAIL SET IN BRICK SIDEWALK AT THE SOUTHERLY CORNER OF BEDFORD ST. & SURRENDEN ST. NEAR #2 BEDFORD.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS THROUGHOUT THIS PROJECT AND PROVIDING THE UNIVERSITY WITH A SET OF THE FINAL RECORD DRAWINGS WHEN THE PROJECT IS COMPLETE.

**SITE LAYOUT NOTES:**

ALL BARRIER FREE PARKING SPACES ARE TO RECEIVE BARRIER FREE SIGNS AND PAVEMENT MARKINGS AS ILLUSTRATED ON THE DETAIL SHEETS.

ALL DIMENSIONS, UNLESS NOTED OTHERWISE, ARE TO THE FACE OF CURB, THE FACE OF THE BUILDING, OR THE EDGE OF PAVEMENT.

THE STOP SIGNS INDICATED ON THE SITE LAYOUT PLAN ARE TO MEET ALL REQUIREMENTS & STANDARDS OF THE MAINE DEPARTMENT OF TRANSPORTATION.

**CURBING REQUIREMENTS:**

THE CONTRACTOR SHALL USE TYPE 1 VERTICAL CURB THROUGHOUT THE PROJECT UNLESS OTHERWISE SPECIFIED ON THE PLAN SET.

**GRADING & DRAINAGE NOTES:**

ALL STORM DRAIN PIPE SHALL BE POLYVINYL CHLORIDE PIPE MEETING THE REQUIREMENTS OF SDR-35, WITH THE EXCEPTION OF EXPOSED PIPE WHICH SHALL BE REINFORCED CONCRETE.

ALL DISTURBED AREAS, EXCEPT ROCK TO REMAIN EXPOSED, ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL PRIOR TO PERMANENT SEEDING. ROCK CUT AREAS, WHICH ARE TO BE GRASSED, SHALL RECEIVE A MINIMUM OF 10" OF TOPSOIL.

THE CONTRACTOR IS REFERENCED TO SECTION 02050 - "DEMOLITION" OF THE CONTRACT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR THE DISPOSAL OF SOLID WASTE AND CONSTRUCTION DEMOLITION DEBRIS. THE CONTRACTOR IS ADVISED TO VISIT THE SITE TO CONFIRM DEMOLITION ITEMS REQUIRED TO COMPLETE THE WORK OF THIS CONTRACT.

**BLASTING NOTES:**

ALL BLASTING SHALL BE PERFORMED IN ACCORDANCE WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE AGC OF AMERICA, INC., THE "CONSTRUCTION SAFETY RULES AND REGULATIONS" AS ADOPTED BY THE STATE BOARD OF CONSTRUCTION SAFETY AND THE MOST STANDARD SPECIFICATIONS SECTION 107.12.

THE CONTRACTOR SHALL CONDUCT A PREBLAST SURVEY OF ALL STRUCTURES WITHIN THE BLASTING AREA AND PROVIDE THE OWNER WITH A WRITTEN REPORT OF THE PREBLAST SURVEY.

REFER TO MADEP SITE LOCATION OF DEVELOPMENT PERMIT FOR ADDITIONAL REQUIREMENTS.

ROCK REMOVAL REQUIRES APPROVAL OF THE PREBLAST SURVEY AND MEASUREMENT BY THE OWNER PRIOR TO ANY BLASTING.

**EROSION CONTROL NOTES:**

1. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.

2. PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND THE CONSTRUCTION ENTRANCE.

3. ALL GROUND AREAS GRADED FOR CONSTRUCTION WILL BE GRADED, LOAMED AND SEEDED AS SOON AS POSSIBLE. PERMANENT SEED MIXTURE SHALL CONFORM TO THE SEEDING PLAN CONTAINED IN THE EROSION CONTROL REPORT PREPARED FOR THIS PROJECT.

4. PRIOR TO PAVING, THE CONTRACTOR SHALL FLUSH SILT FROM ALL STORM DRAIN LINES.

5. ALL STORM DRAIN INLETS & OUTLETS ARE TO RECEIVE RIPRAP PROTECTION APRONS DURING CONSTRUCTION.

6. SILT FENCES SHALL BE INSPECTED, REPAIRED AND CLEANED AS NOTED IN THE EROSION CONTROL REPORT APPENDED TO SECTION 02780 OF THE TECHNICAL SPECIFICATIONS.

7. THE CONTRACTOR SHALL REPAIR AND ADD STONE TO THE CONSTRUCTION ENTRANCES AS THEY BECOME SATURATED WITH MUD TO ENSURE THAT THEY WORK AS PLANNED DURING CONSTRUCTION.

8. SILT REMOVED FROM AROUND INLETS AND BEHIND THE SILT FENCES SHALL BE PLACED ON A TOPSOIL STOCKPILE AND MIXED INTO IT FOR LATER USE IN LANDSCAPING OPERATIONS.

9. A FULL EROSION CONTROL PLAN ACCOMPANIES THIS PLAN SET AND IS CONTAINED IN SECTION 02780 OF THE TECHNICAL SPECIFICATIONS.

10. THE MAINTENANCE SCHEDULE FOR THE CATCH BASIN SEDIMENT SUMPS IS AS FOLLOWS:

THESE DEVICES SHALL BE INSPECTED IN APRIL AND OCTOBER OF EACH YEAR. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE CATCH BASIN WHEN THE DEPTH OF THE SEDIMENT IS GREATER THAN ONE FOOT. THE SEDIMENT WILL BE REMOVED FROM THE SITE BY THE OWNER OR THE CATCH BASIN CLEANING CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

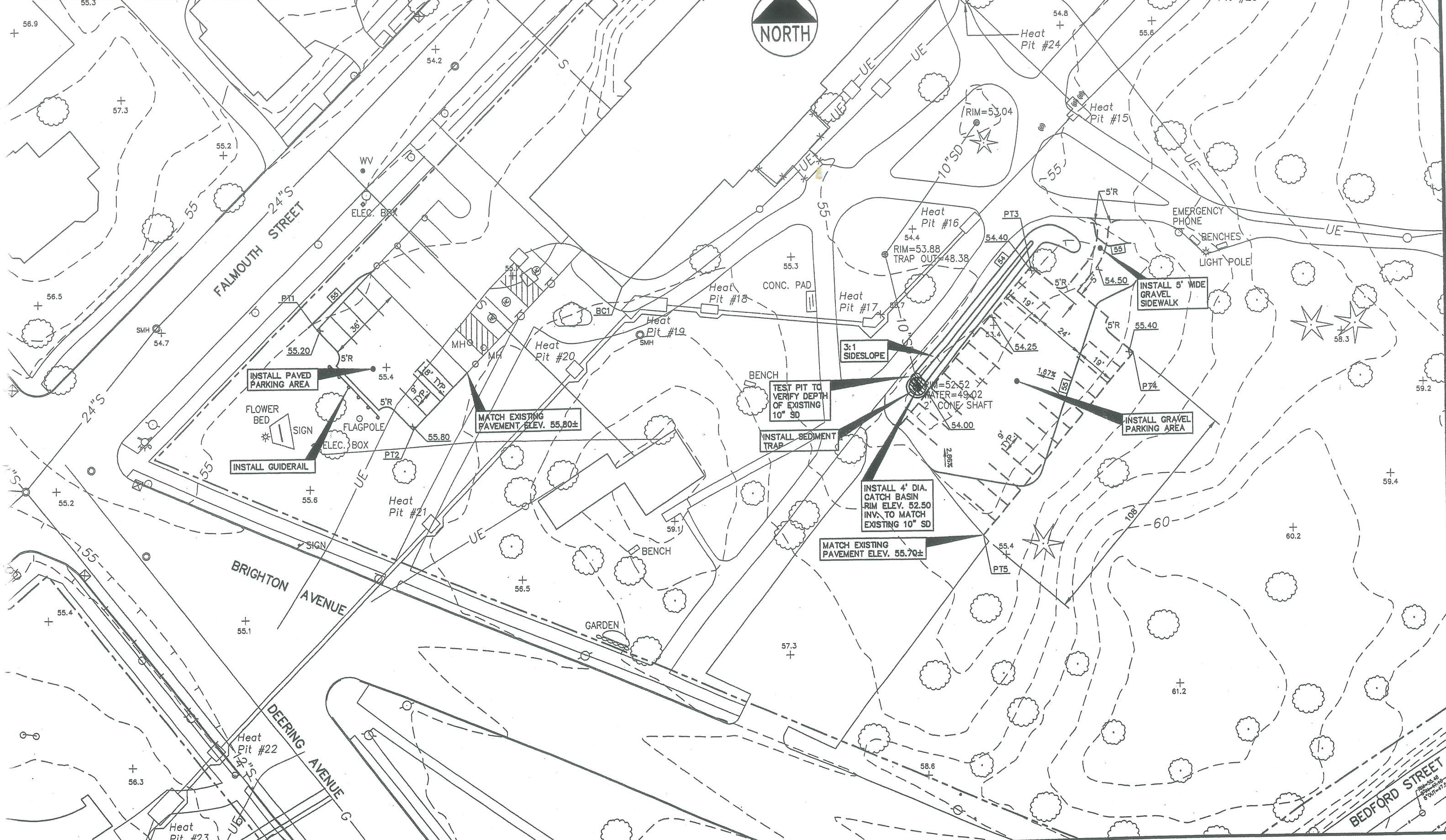
11. THE CONTRACTOR IS CAUTIONED THAT FAILURE TO COMPLY WITH THE SEQUENCE OF CONSTRUCTION CONTAINED IN THE EROSION/SEDIMENT CONTROL PLAN, AND OTHER PERMIT REQUIREMENTS MAY RESULT IN MONETARY PENALTIES. THE CONTRACTOR SHALL BE ASSESSED ALL SUCH PENALTIES AT NO COST TO THE OWNER OR PERMITTEE.

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX & LEGEND
- 3 PARKING LOTS P-4 & P-10 EXPANSION DEMOLITION PLAN
- 4 PARKING LOTS P-4 & P-10 EXPANSION IMPROVEMENTS
- 5 PARKING LOTS P-5 EXPANSION DEMOLITION PLAN
- 6 PARKING LOTS P-5 EXPANSION GRADING & DRAINAGE PLAN
- 7 SITE DETAILS
- 8 UTILITY & EROSION CONTROL DETAILS

EXISTING	DESCRIPTION	PROPOSED
---	PROPERTY/ROW LINE	---
---	CONSTRUCTION CENTERLINE	---
△	SURVEY CONTROL POINT	△
⊙ B-1	TEST BORING	⊙
⊕ TP 1	TEST PIT	⊕
~~~~~	TREELINE	~~~~~
☀	EVERGREEN TREE	☀
☀	DECIDUOUS TREE	☀
☀	SHRUB	☀
—	SIGN	—
⊠	MAILBOX	⊠
---	WIRE/CHAIN LINK FENCE	---
⊙	LIGHT POST	⊙
⊕	UTILITY POLE	⊕
—	GUY WIRE	—
⊠	ELECTRIC CONTROL BOX	⊠
---	GRADING CONTOUR LINE	---
---	GRADING SPOT GRADE	---
.....	WETLAND BOUNDARY	.....
⊠	WETLAND SYMBOL	⊠
---	1.5 TO 1 RIPRAP SLOPE	---
---	RIPRAP SPILLWAY/APRON	---
---	SILT FENCE	---
---	STABILIZED CONSTRUCTION ENTRANCE	---
---	CATCH BASIN SEDIMENT TRAP	---
---	BUILDING	---
---	BUILDING SETBACK	---
---	PAVEMENT SETBACK	---
---	EDGE OF PAVMT	---
---	CONC./PAVED ISLAND w/CURB	---
---	CURB	---
---	PAVEMENT STRIPING	---
---	GUIDERAIL	---
⊙	WELL	⊙
⊕	FIRE HYDRANT	⊕
⊠	CATCH BASIN	⊠
⊕	MANHOLE	⊕
⊕	WATER GATE/VALVE	⊕
---	OVERHEAD WRES	---
---	WATER LINE	---
---	STORM DRAIN LINE	---
---	SANITARY SEWER LINE	---
---	UNDERGROUND ELECTRIC	---
---	UNDERGROUND TELEPHONE	---
---	UNDERGROUND HEATING SYSTEM	---
---	SUPPLY & RETURN LINES	---

PRELIMINARY NOT FOR CONSTRUCTION

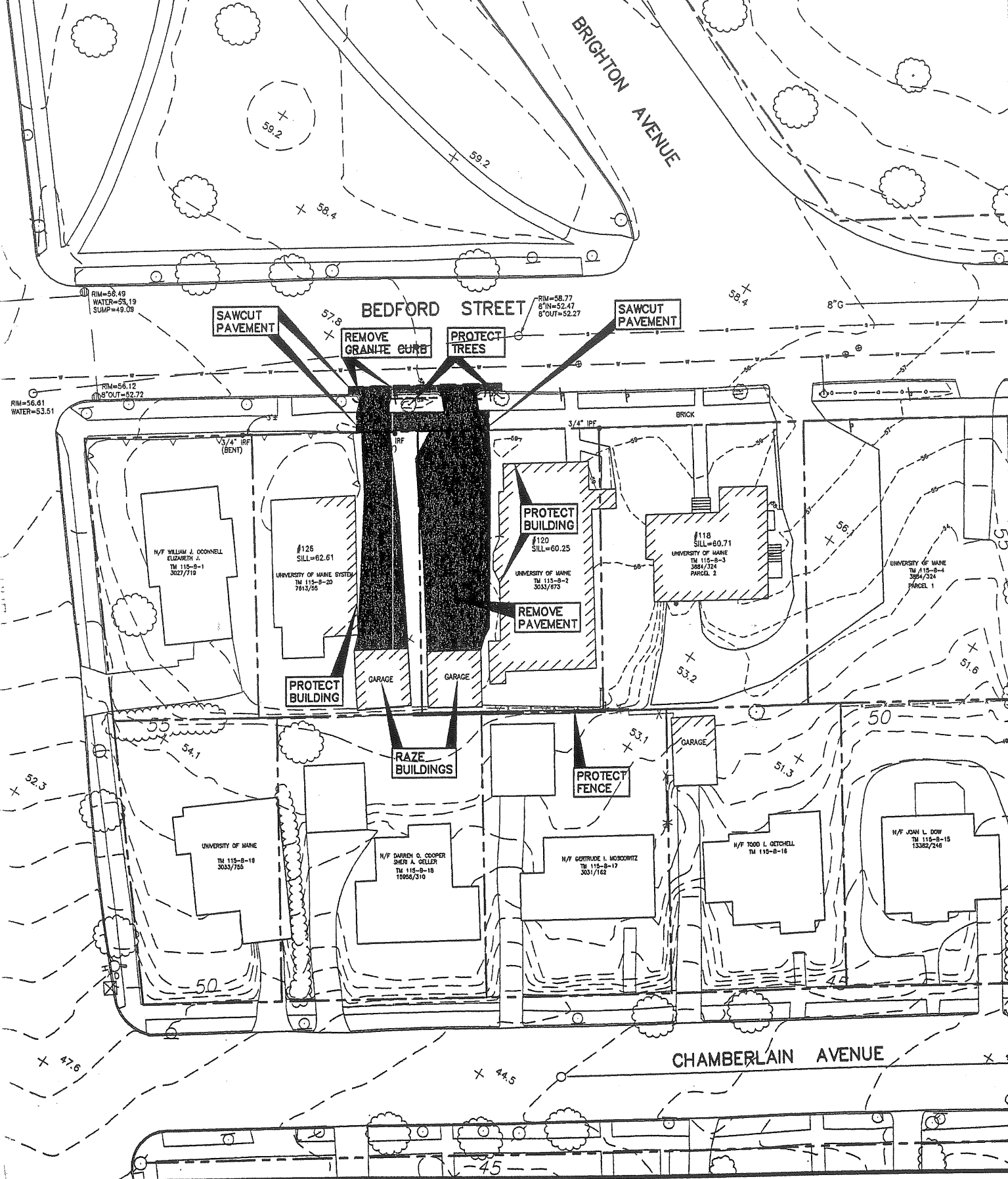




PRELIMINARY NOT FOR CONSTRUCTION

SITE LAYOUT SCHEMATIC





PRELIMINARY NOT FOR CONSTRUCTION

KEY

# SITE DEVELOPMENT PLANS FOR VEHICULAR PARKING LOT IMPROVEMENTS UNIVERSITY OF SOUTHERN MAINE PORTLAND CAMPUS

## DECEMBER 2001

### UTILITIES

ELECTRICITY : CENTRAL MAINE POWER COMPANY  
ATTN: MR. ROBERT STOREY  
162 CANCO ROAD  
PORTLAND, ME 04103  
(207) 828-2821

TELEPHONE : VERIZON COMMUNICATIONS  
ATTN: MR. JOSEPH RAYNES  
13 DAVIS FARM ROAD  
PORTLAND, ME 04103  
(207) 797-1867

GAS : NORTHERN UTILITIES, INC.  
ATTN: MR. PERRY ROBCHAUD  
DISTRIBUTION DEPARTMENT  
1075 FOREST AVENUE  
PORTLAND, MAINE 04103  
(207) 797-8002, EXT. 6242

OFFSITE SEWER AND  
STORM DRAIN : CITY OF PORTLAND  
ATTN: TODD MERKLE  
DEPARTMENT OF PUBLIC WORKS  
55 PORTLAND STREET  
PORTLAND, ME 04101  
(207) 874-8871

OFFSITE WATER : PORTLAND WATER DISTRICT  
ATTN: MR. DAVID COFFIN  
225 DOUGLASS STREET  
P.O. BOX 3553  
PORTLAND, ME 04104-3553  
(207) 774-5961

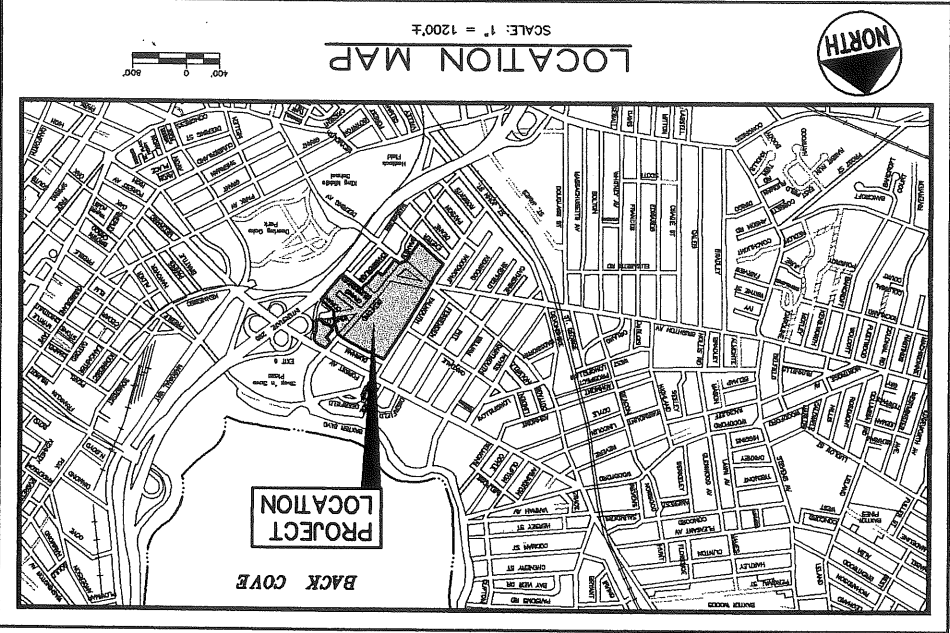
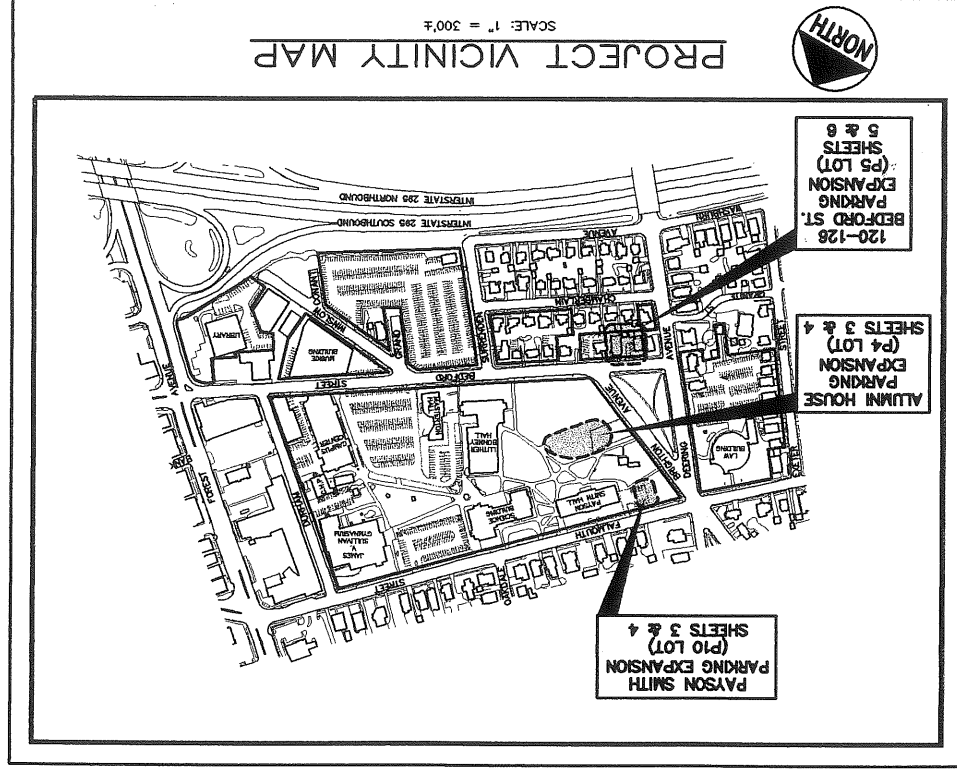
ONSITE SEWER, WATER,  
HEATING SYSTEM,  
TELEPHONE & ELECTRIC : UNIVERSITY OF SOUTHERN MAINE  
DEPARTMENT OF FACILITIES MANAGEMENT  
ATTN: DAVE EARLY  
(207) 760-4656

DIG SAFE : 1-888-344-7233 (1-888-DIG-SAFE)

### PROJECT CONSULTANTS

CIVIL ENGINEER:  
DELUCA-HOFFMAN  
ASSOCIATES, INC.  
778 Main Street, Suite 8  
South Portland, Me 04106  
Tel. (207) 775-1121

SURVEYOR:  
OWEN HASKELL, INC.  
16 Casco Street  
Portland, Me 04101-2979  
Tel. (207) 774-0424



### APPLICANT (FOR THE PURPOSE OF SECURING LOCAL SITE PLAN APPROVALS AND STATE SITE LOCATION PERMIT MODIFICATION)

UNIVERSITY OF MAINE SYSTEM  
107 MAINE AVENUE  
BANGOR, MAINE 04401-4380  
Tel: (207) 973-3334

TAX MAP	BLOCK	LOT NO.
51	E	1, 6, 7, 12, 14, 15,
114	A	4, 12
114	B	1, 2
114	D	5, 23
114A	A	1
114A	G	6, 9, 10
114A	H	5
115	B	2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 19, 20

LAND OWNER  
UNIVERSITY OF MAINE SYSTEM  
107 MAINE AVENUE  
BANGOR, MAINE 04401-4380  
Tel: (207) 973-3334

SITE PLAN/SPECIAL  
PORTLAND PLANNING BOARD  
ATTN: SARAH HOPKINS  
PORTLAND CITY HALL  
389 CONGRESS STREET  
PORTLAND, ME 04101-3503  
(207) 874-8300

SITE LOCATION PERMIT  
MAINE DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
312 CANCO ROAD  
PORTLAND, ME 04103  
(207) 822-6300

### PROJECT PERMITS

PRELIMINARY  
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION
1	06/15/01	REVIEWED PRELIMINARY PLAN SET WITH USM & CITY OF PORTLAND
2	12/21/01	SUBMITTED TO CITY OF PORTLAND

REVISIONS

P.E. JOSEPH A. LAVERRIERE  
LIC. #7417

# GENERAL NOTES

1. THIS PROJECT WILL BE SUBJECT TO THE TERMS AND CONDITIONS OF A MAINE DEP SITE LOCATION OF DEVELOPMENT PERMIT MODIFICATION AND CITY OF PORTLAND SITE PLAN APPROVAL, WHICH WILL BE MADE A PART OF THE CONTRACT BID DOCUMENTS.

2. CONSTRUCTION SPECIFICATIONS AND BIDDING PROCEDURES. THE CONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.

3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS AVAILABLE FROM THE UNIVERSITY & VARIOUS UTILITY COMPANIES. THE CONTRACTOR MUST OBTAIN THE APPROPRIATE UTILITY INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR CORRECT. THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE UTILITY INFORMATION FROM THE UNIVERSITY & VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR CORRECT. THE CONTRACTOR MUST OBTAIN THE APPROPRIATE UTILITY INFORMATION FROM THE UNIVERSITY & VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD.

4. MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE CONTRACTOR.

5. ALL STORM DRAIN INLETS & OUTLETS ARE TO RECEIVE RIPRAP PROTECTION APRONS DURING CONSTRUCTION.

6. SILT FENCES SHALL BE INSPECTED, REPAIRED AND CLEANED AS NOTED IN THE EROSION CONTROL REPORT APPENDED TO SECTION 02780 OF THE TECHNICAL SPECIFICATIONS.

7. THE CONTRACTOR SHALL REPAIR AND ADD STONE TO THE CONSTRUCTION ENTRANCES AS THEY BECOME SATURATED WITH MUD TO ENSURE THAT THEY WORK AS PLANNED DURING CONSTRUCTION.

8. MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE CONTRACTOR.

9. A FULL EROSION CONTROL PLAN ACCOMPANIES THIS PLAN SET AND IS CONTAINED IN SECTION 02780 OF THE TECHNICAL SPECIFICATIONS.

10. THE MAINTENANCE SCHEDULE FOR THE CATCH BASIN SEDIMENT SUMP IS AS FOLLOWS:  
THESE DEVICES SHALL BE INSPECTED IN APRIL AND OCTOBER OF EACH YEAR. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE CATCH BASIN WHEN THE DEPTH OF THE SEDIMENT IS GREATER THAN ONE FOOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE CONTRACTOR.

11. THE CONTRACTOR IS CAUTIONED THAT FAILURE TO COMPLY WITH THE SEQUENCE OF CONSTRUCTION CONTAINED IN THE EROSION/SEDIMENT CONTROL PLAN, AND OTHER PERMIT REQUIREMENTS MAY RESULT IN MONETARY PENALTIES. THE CONTRACTOR SHALL BE ASSESSED ALL SUCH PENALTIES AT NO COST TO THE OWNER OR PERMITTEE.

## GENERAL NOTES:

1. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER WHICH WILL BE MADE A PART OF THE CONTRACT BID DOCUMENTS.

2. PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND THE CONSTRUCTION ENTRANCE.

3. ALL GROUND AREAS GRADED FOR CONSTRUCTION WILL BE GRADED, LOAMED AND SEEDS AS SOON AS POSSIBLE. PERMANENT SEED MIXTURE SHALL CONFORM TO THE SEEDING PLAN CONTAINED IN THE EROSION CONTROL REPORT PREPARED FOR THIS PROJECT.

4. STORM DRAIN LINES. THE CONTRACTOR SHALL FLUSH SILT FROM ALL PRIOR TO PAVING. THE CONTRACTOR SHALL FLUSH SILT FROM ALL STORM DRAIN LINES.

5. THE CONTRACTOR SHALL REQUEST THE EXACT FIELD LOCATION OF UTILITIES TO ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

6. MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE CONTRACTOR.

7. THE CONTRACTOR SHALL REPAIR AND ADD STONE TO THE CONSTRUCTION ENTRANCES AS THEY BECOME SATURATED WITH MUD TO ENSURE THAT THEY WORK AS PLANNED DURING CONSTRUCTION.

8. MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE CONTRACTOR.

9. A FULL EROSION CONTROL PLAN ACCOMPANIES THIS PLAN SET AND IS CONTAINED IN SECTION 02780 OF THE TECHNICAL SPECIFICATIONS.

10. THE MAINTENANCE SCHEDULE FOR THE CATCH BASIN SEDIMENT SUMP IS AS FOLLOWS:  
THESE DEVICES SHALL BE INSPECTED IN APRIL AND OCTOBER OF EACH YEAR. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE CATCH BASIN WHEN THE DEPTH OF THE SEDIMENT IS GREATER THAN ONE FOOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER OR THEIR REPRESENTATIVES AT NO ADDITIONAL COST TO THE CONTRACTOR.

11. THE CONTRACTOR IS CAUTIONED THAT FAILURE TO COMPLY WITH THE SEQUENCE OF CONSTRUCTION CONTAINED IN THE EROSION/SEDIMENT CONTROL PLAN, AND OTHER PERMIT REQUIREMENTS MAY RESULT IN MONETARY PENALTIES. THE CONTRACTOR SHALL BE ASSESSED ALL SUCH PENALTIES AT NO COST TO THE OWNER OR PERMITTEE.

## SITE LAYOUT NOTES:

1. ALL BARRIER FREE PARKING SPACES ARE TO RECEIVE BARRIER FREE SIGNS AND PAYMENT MARKINGS AS ILLUSTRATED ON THE DETAIL SHEETS.

2. ALL DIMENSIONS, UNLESS NOTED OTHERWISE, ARE TO THE FACE OF CURB, THE FACE OF THE BUILDING, OR THE EDGE OF PAVEMENT.

3. ALL REQUIREMENTS & STANDARDS OF THE MAINE DEPARTMENT OF TRANSPORTATION.

4. CURBING REQUIREMENTS. THE CONTRACTOR SHALL USE TYPE 1 VERTICAL CURB THROUGHOUT THE PROJECT UNLESS OTHERWISE SPECIFIED ON THE PLAN SET.

## GRADING & DRAINAGE NOTES:

1. ALL STORM DRAIN PIPE SHALL BE POLYETHYLENE GLYCOL PIPE MEETING THE REQUIREMENTS OF SDR-35, WITH THE EXCEPTION OF EXPOSED PIPE WHICH SHALL BE REINFORCED CONCRETE.

2. ALL DISTURBED AREAS, EXCEPT ROCK TO REMAIN EXPOSED, ARE TO RECEIVE A MINIMUM OF 10" OF TOPSOIL PRIOR TO PERMANENT SEEDING. ROCK CUT AREAS WHICH ARE TO BE GRASSED, SHALL RECEIVE A MINIMUM OF 10" OF TOPSOIL.

3. THE CONTRACTOR IS REFERENCED TO SECTION 02650 - "DEMOLITION" OF THE CONTRACT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR THE DISPOSAL OF DEMOLITION DEBRIS. THE CONTRACTOR IS ADVISED TO VISIT THE SITE TO CONFIRM DEMOLITION ITEMS REQUIRED TO COMPLETE THE WORK OF THIS CONTRACT.

## BLASTING NOTES:

1. ALL BLASTING SHALL BE PERFORMED IN ACCORDANCE WITH ALL PERMIT PROVISIONS OF THE MANUAL OF CONSTRUCTION IN CONSTRUCTION ISSUED BY THE AG OF MARIETTA, INC. THE "CONSTRUCTION SAFETY RULES AND REGULATIONS" AS ADOPTED BY THE STATE BOARD OF CONSTRUCTION SAFETY AND THE ADOPTED STANDARD SPECIFICATIONS SECTION 107.12.

2. THE CONTRACTOR SHALL CONDUCT A PREBLAST SURVEY OF ALL STRUCTURES WITHIN THE BLASTING AREA AND PROVIDE THE OWNER WITH A WRITTEN REPORT OF THE PREBLAST SURVEY.

3. REFER TO MADEP SITE LOCATION OF DEVELOPMENT PERMIT FOR ADDITIONAL REQUIREMENTS.

4. ROCK REMOVAL REQUIRES APPROVAL OF THE PREBLAST SURVEY AND MEASUREMENT BY THE OWNER PRIOR TO ANY BLASTING.

## COVER SHEET

1 GENERAL NOTES, INDEX & LEGEND

2 PARKING LOTS P-4 & P-10 EXPANSION DEMOLITION PLAN

3 PARKING LOTS P-4 & P-10 EXPANSION DEMOLITION PLAN

4 PARKING LOTS P-4 & P-10 EXPANSION DEMOLITION PLAN

5 PARKING LOTS P-5 EXPANSION DEMOLITION PLAN

6 PARKING LOTS P-5 EXPANSION GRADING & DRAINAGE PLAN

7 SITE DETAILS

8 UTILITY & EROSION CONTROL DETAILS

## LEGEND

PROPOSED

CONSTRUCTION CENTERLINE

SURVEY CONTROL POINT

TEST BORING

TEST PIT

TREE LINE

EVERGREEN TREE

DECIDUOUS TREE

SHRUB

SIGN

MALIBOX

WIRE/CHAIN LINK FENCE

LIGHT POST

UTILITY POLE

GUY WIRE

ELECTRIC CONTROL BOX

GRADING CONTOUR LINE

GRADING SPOT GRADE

WETLAND BOUNDARY

WETLAND SYMBOL

1.5 TO 1 RIPRAP SLOPE

RIPRAP SPILLWAY/APRON

SILT FENCE

STABILIZED CONSTRUCTION ENTRANCE

CATCH BASIN SEDIMENT TRAP

BUILDING

BUILDING SETBACK

PAYMENT SETBACK

EDGE OF PAVEMENT

CONC./PAVED ISLAND w/ CURB

CURB

PAVEMENT STRIPING

GUIDERAIL

WELL

FIRE HYDRANT

CATCH BASIN

MANHOLE

WATER GATE/VALVE

OVERHEAD WRES

WATER LINE

STORM DRAIN LINE

8" SANITARY SEWER LINE

UNDERGROUND ELECTRIC

UNDERGROUND TELEPHONE

UNDERGROUND HEATING SYSTEM

SUPPLY & RETURN LINES

UHS

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3

UHR

UHT

UGE

8" SAN

18" SD

8" WATER

OHE

DMH 3

CB 3



SHEET 4  
 FILE NAME: 207402SP-B.dwg  
 CHECKED: JAL JOB NO. 2074.02  
 DESIGNED: JAL SCALE: 1" = 20'  
 DRAWN: CDD DATE: AUG. 2001  
 DMI  
 DALUCA-HOFFMAN ASSOCIATES, INC.  
 779 MAIN STREET, SUITE B  
 SOUTH PORTLAND, ME 04106  
 (207) 775-1191  
 DMI@DALUCA-HOFFMAN.COM

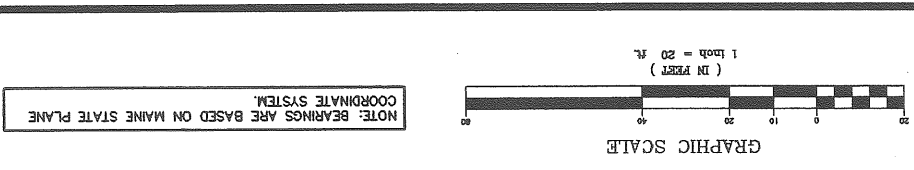
UNIVERSITY OF MAINE SYSTEM  
 IMPROVEMENTS  
 PARKING LOTS P-4 & P-10 EXPANSION  
 IMPROVEMENTS  
 VEHICULAR PARKING LOT

REV	DATE	DESCRIPTION
1	08/15/01	PORTLAND
2	12/21/01	REVIEWED PRELIMINARY PLAN SET WITH USM & CITY OF PORTLAND
3	02/11/02	REVISED PER COMMENTS FROM CITY PLANNING DEPARTMENT
4	02/15/02	REVISED PER COMMENTS OF SEWAGE TECHNIC AND REBUILT

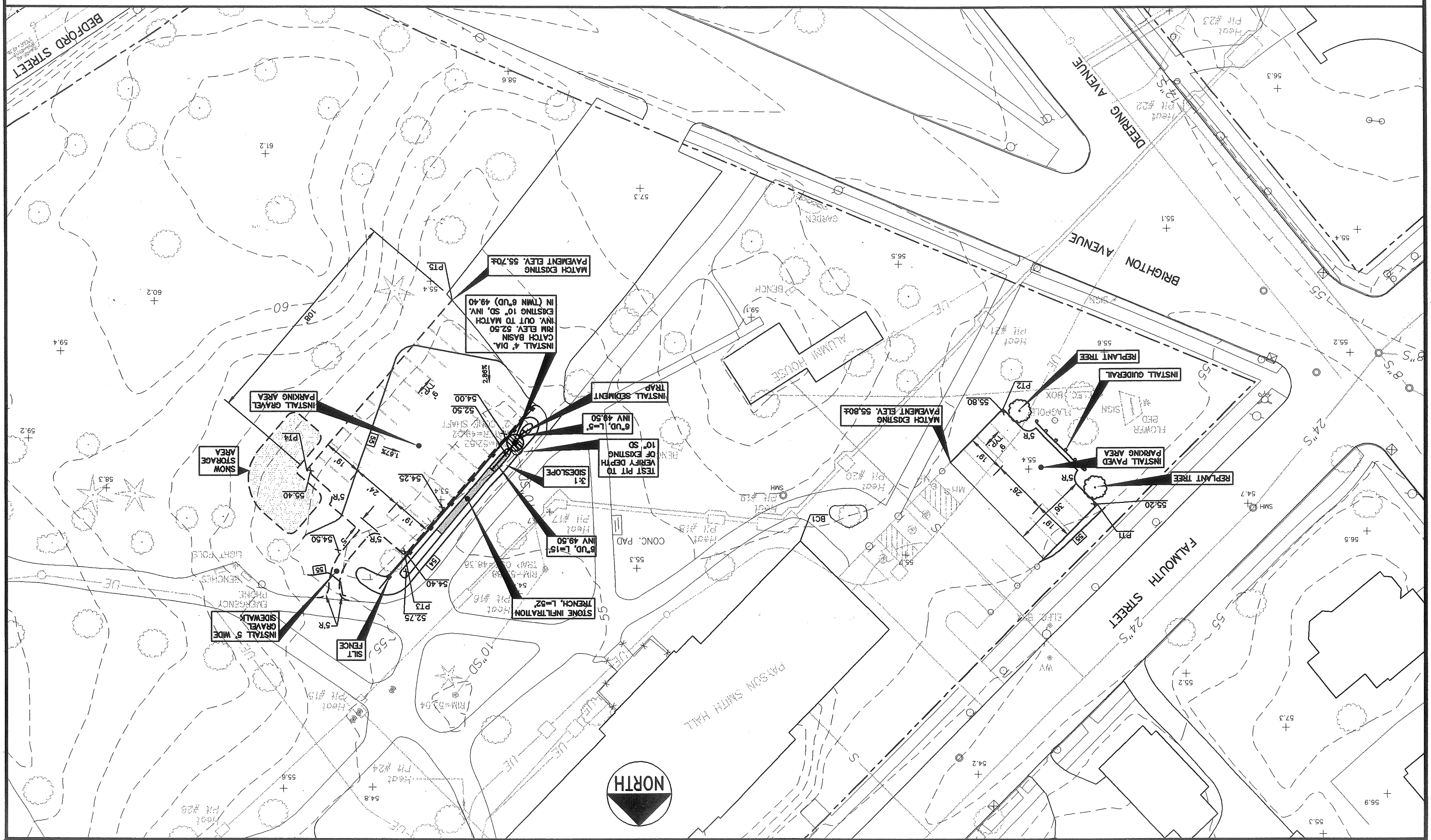
P.E. JOSEPH A. LAMBERGHE  
 U.C. #7417

POINT NO.	DESCRIPTION	EASTING	NORTHING
BC1	CORNER OF EXISTING BUILDING	302034.8310	2923335.0860
PT11	PROPOSED CORNER OF P10 PARKING LOT	302017.5989	2923192.4647
PT12	PROPOSED CORNER OF P10 PARKING LOT	301971.8560	2923237.7252
PT13	PROPOSED CORNER OF P4 PARKING LOT	302044.8313	2923524.4802
PT14	PROPOSED CORNER OF P4 PARKING LOT	302001.4839	2923571.5555
PT15	PROPOSED CORNER AND EXIST. EDGE OF P4 PARKING LOT	301919.9154	2923501.8446

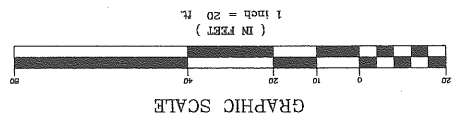
SITE LAYOUT SCHEDULE



PRELIMINARY NOT FOR CONSTRUCTION



SHEET 5		UNIVERSITY OF MAINE SYSTEM		REVIEWS	
FILE NAME: 207402SP-B.dwg		P.E. JOSEPH A. LAVERRIERE		DATE	
CHECKED: JAL JOB NO. 2074.02		CUMENT		DESCRIPTION	
DESIGNED: JAL SCALE: 1" = 20'		PROJECT		1 08/15/01 REVISED PRELIMINARY PLAN SET WITH USM & CITY OF PORTLAND	
DRAWN: CDD DATE: AUG. 2001		SHEET TITLE		2 12/21/01 SUBMITTED TO CITY OF PORTLAND	
DH ASSOCIATES, INC. 778 MAIN STREET, SUITE B SOUTH PORTLAND, ME 04106		VEHICULAR PARKING LOT IMPROVEMENTS		3 02/17/02 REVISED PER COMMENTS FROM CITY PLANNING DEPARTMENT	
DALUCA-HOFFMAN		PARKING LOT P-5 EXPANSION			

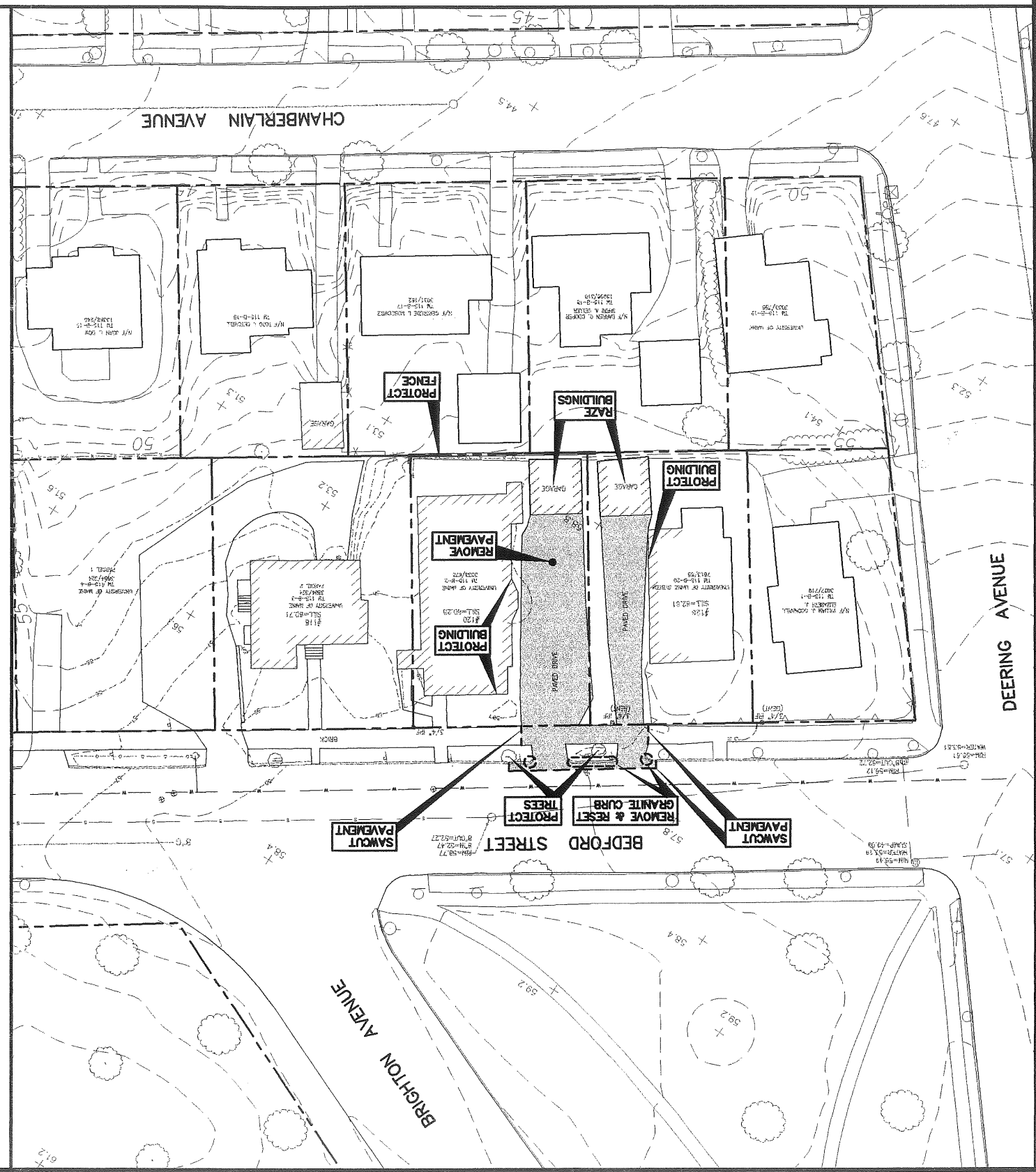


BITUMINOUS PAVEMENT/CONCRETE/BRICK TO BE REMOVED

KEY

PRELIMINARY NOT FOR CONSTRUCTION

- NOTES:
1. REMOVED GRANITE CURB NOT BEING RESET WITHIN PUBLIC RIGHT OF WAY SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND AND BE DELIVERED TO A STOCKYARD DESIGNATED BY PORTLAND PUBLIC WORKS DEPARTMENT.
  2. WHERE NECESSARY TO INSTALL CURBING, STREET SIGNS SHALL BE REMOVED AND RESET IN ORIGINAL LOCATIONS.



PROJECT	VEHICULAR PARKING LOT IMPROVEMENTS
SHEET TITLE	PARKING LOT P-5 EXPANSION SITE
CLIENT	UNIVERSITY OF MAINE SYSTEM
DATE:	AUG. 2001
SCALE:	1" = 20'
DESIGNED BY:	JAL
CHECKED BY:	JAL
JOB NO.:	2074.02
FILE NAME:	207402SP-B.dwg
SHEET	6

REV	DATE	DESCRIPTION
1	08/15/01	REVIEWED PRELIMINARY PLAN SET WITH USM & CITY OF PORTLAND
2	12/21/01	SUBMITTED TO CITY OF PORTLAND

REVISIONS  
 P.E. JOSEPH A. LAVARRERE  
 LIC. #7417

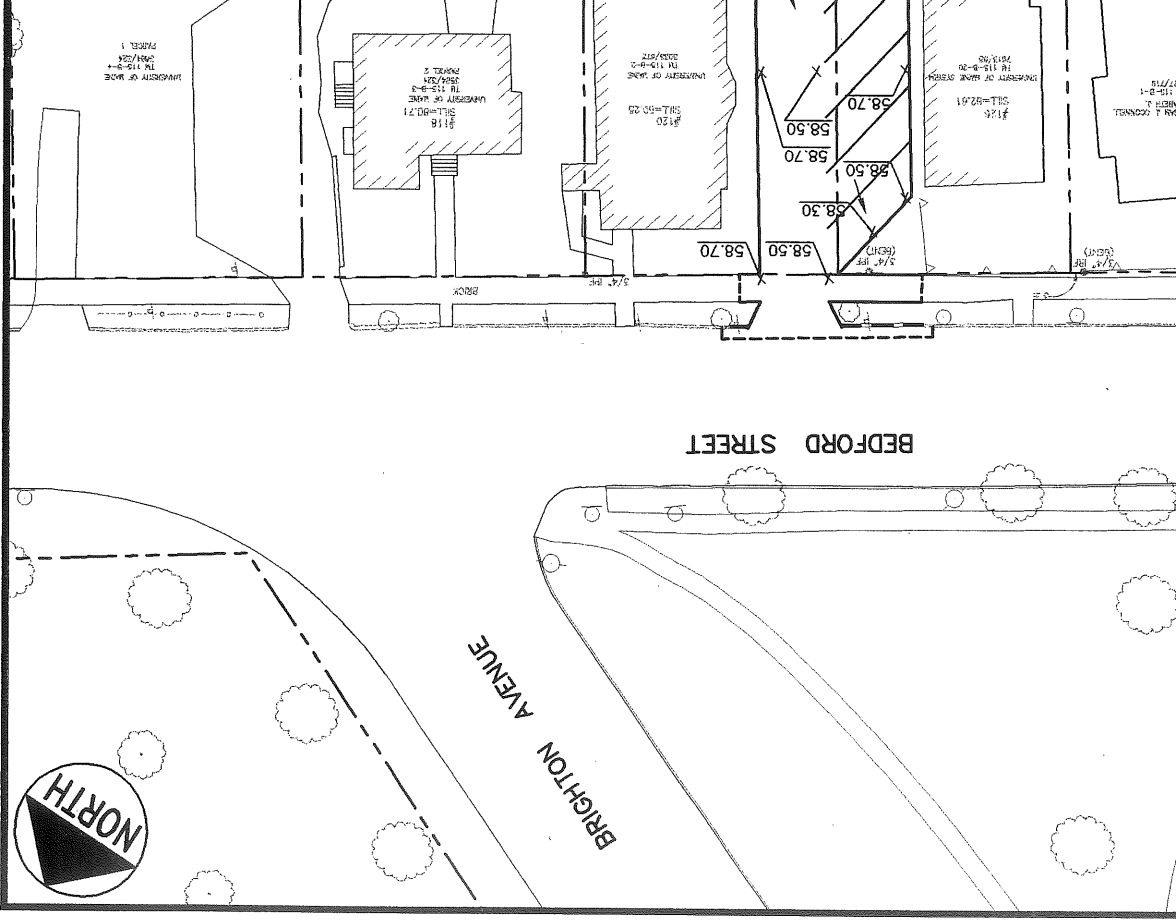
NOTE: BEARINGS ARE BASED ON MAINE STATE PLANE COORDINATE SYSTEM.  
 SIGNAGE & PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REGARDING LOCATION, SIZE, INSTALLATION AND REFLECTIVITY.

I.D.	DESCRIPTION	NORTHING	EASTING
1	CORNER OF PARKING LOT	301605.35	2923511.96
2	CORNER OF PARKING LOT	301559.75	2923542.98
3	CORNER OF PARKING LOT	301557.32	2923555.75
4	CORNER OF PARKING LOT	301559.65	2923566.99
5	CORNER OF PARKING LOT	301568.65	2923580.22

GRAPHIC SCALE  
 1 inch = 20 ft.  
 (IN FEET)

PRELIMINARY NOT FOR CONSTRUCTION

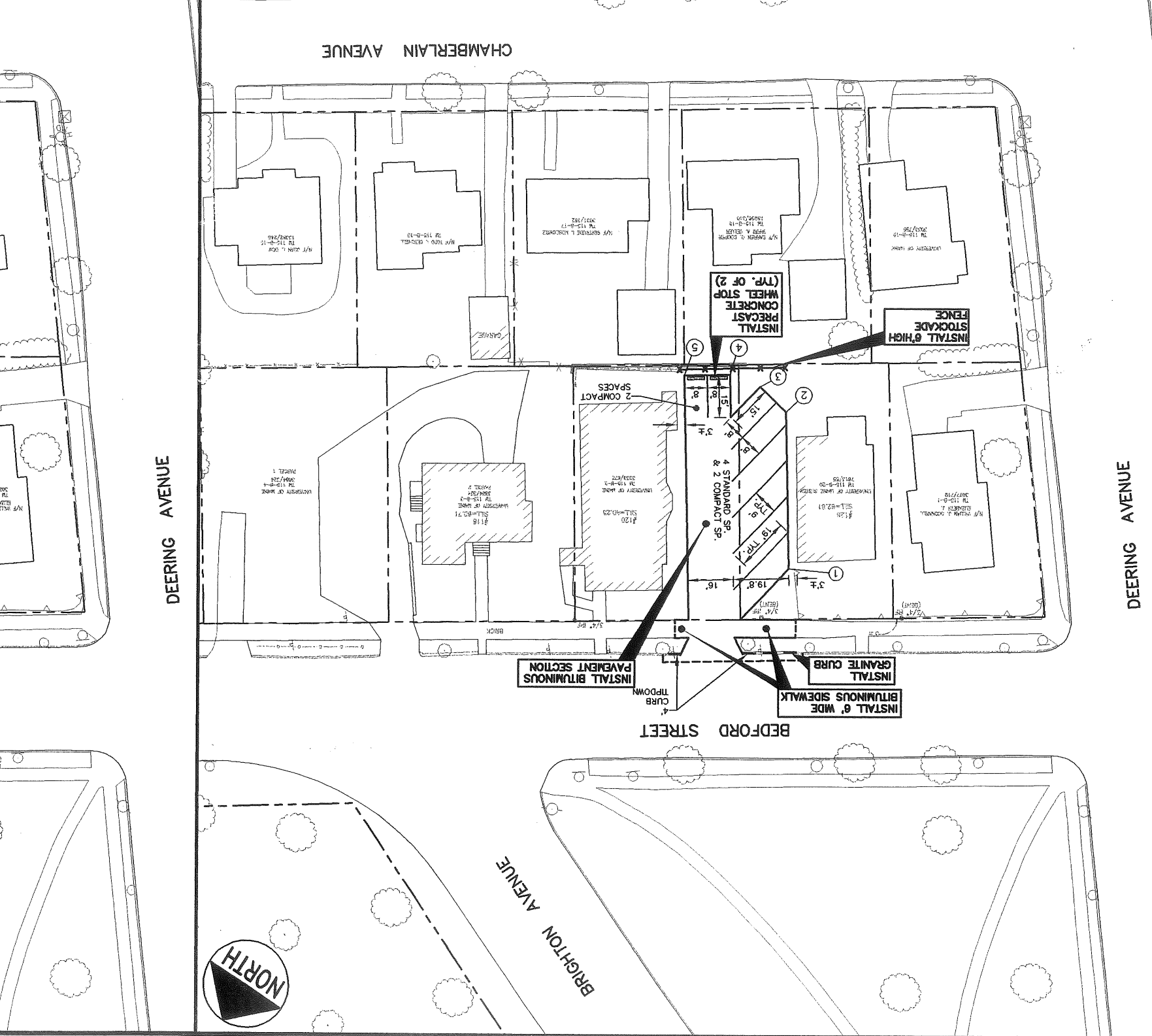
GRADING & DRAINAGE PLAN



I.D.	DESCRIPTION	NORTHING	EASTING
1	CORNER OF PARKING LOT	301605.35	2923511.96
2	CORNER OF PARKING LOT	301559.75	2923542.98
3	CORNER OF PARKING LOT	301557.32	2923555.75
4	CORNER OF PARKING LOT	301559.65	2923566.99
5	CORNER OF PARKING LOT	301568.65	2923580.22

GRAPHIC SCALE  
 1 inch = 20 ft.  
 (IN FEET)

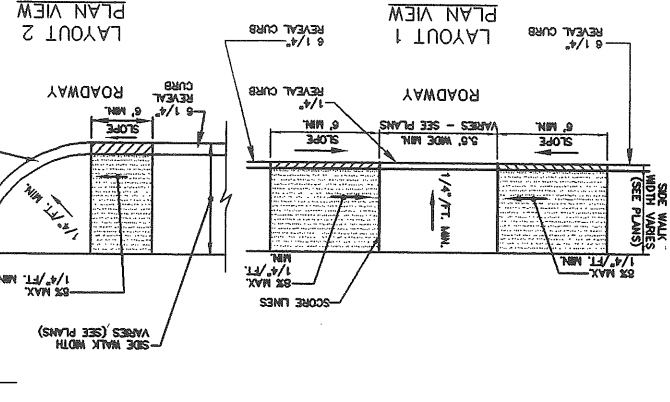
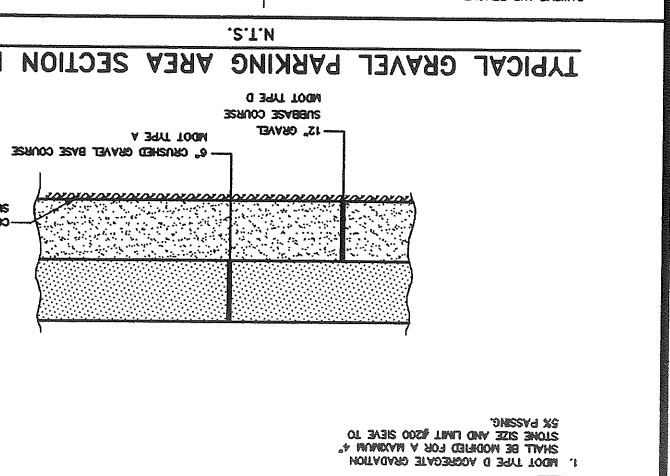
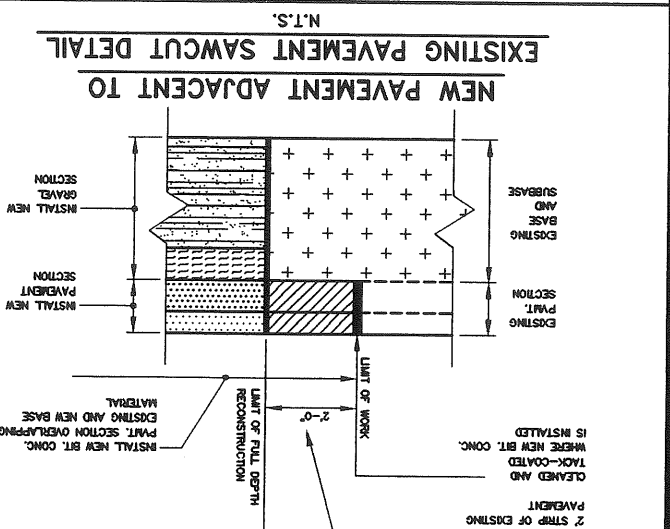
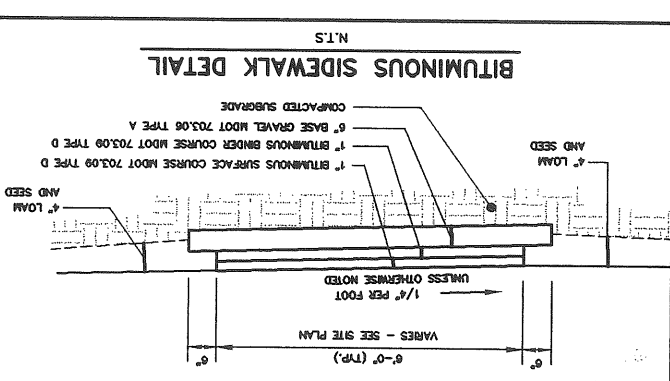
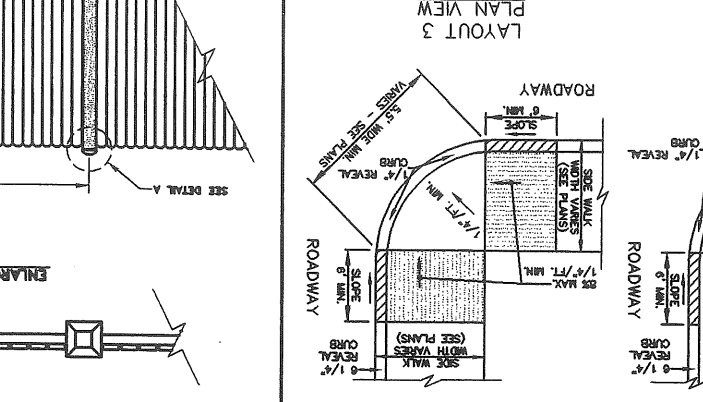
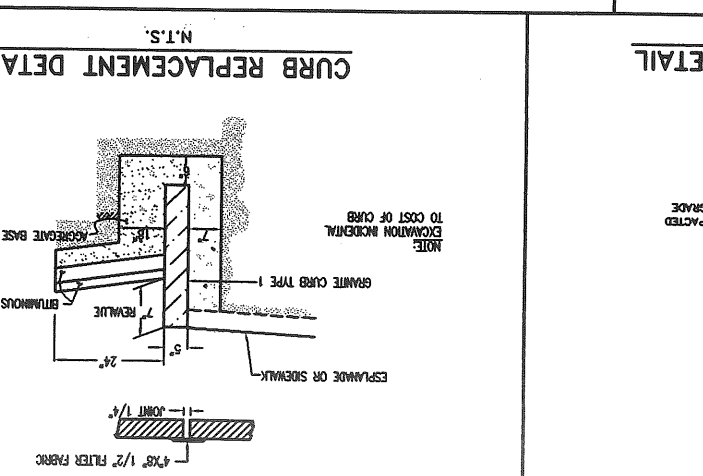
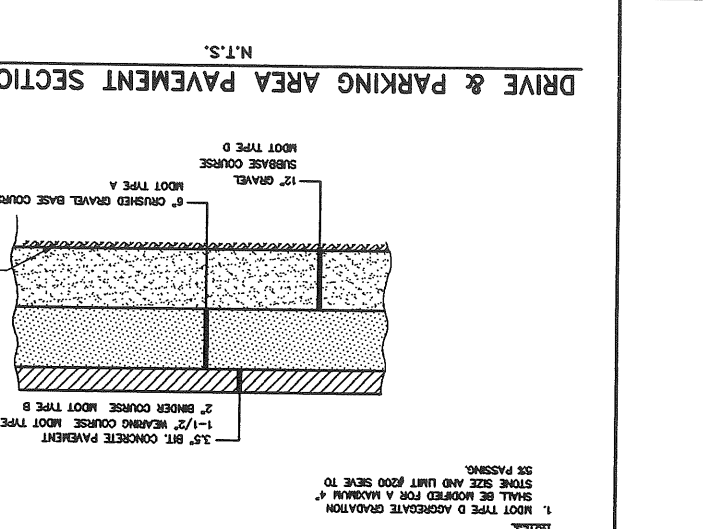
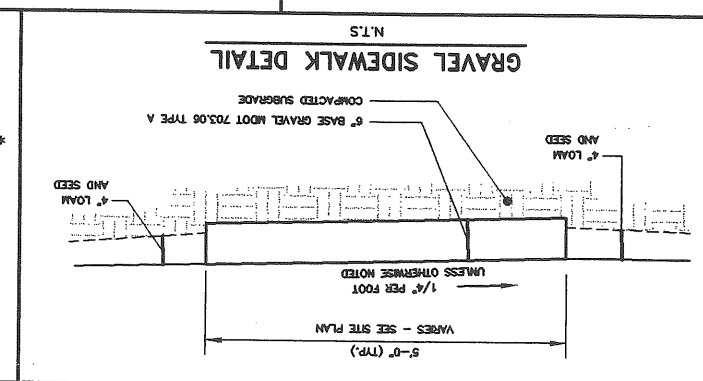
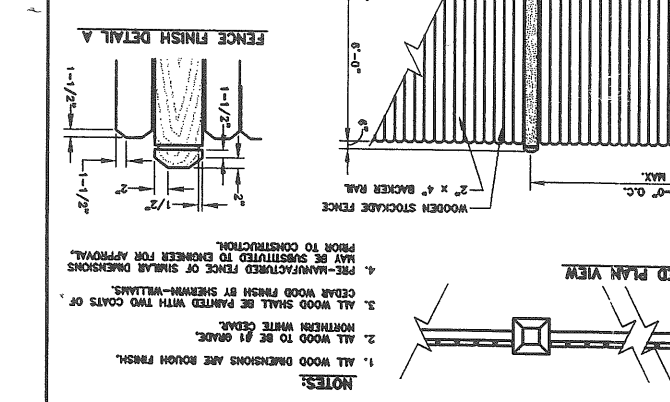
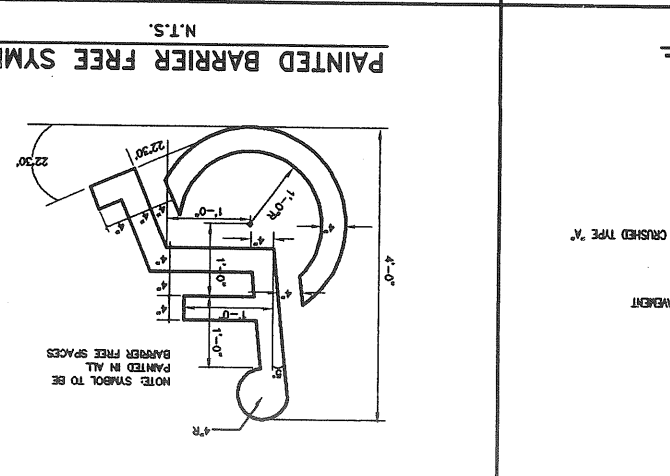
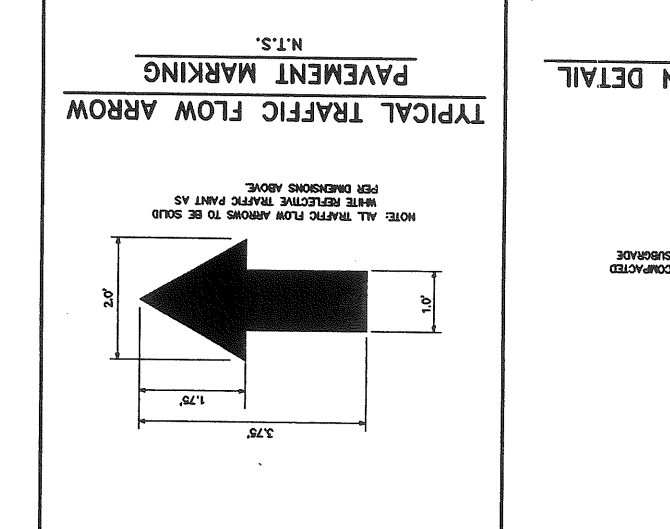
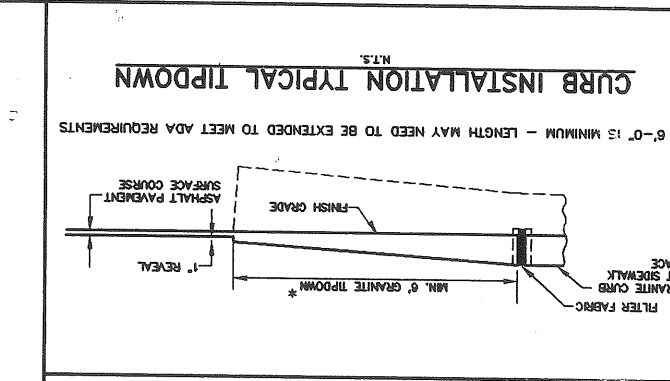
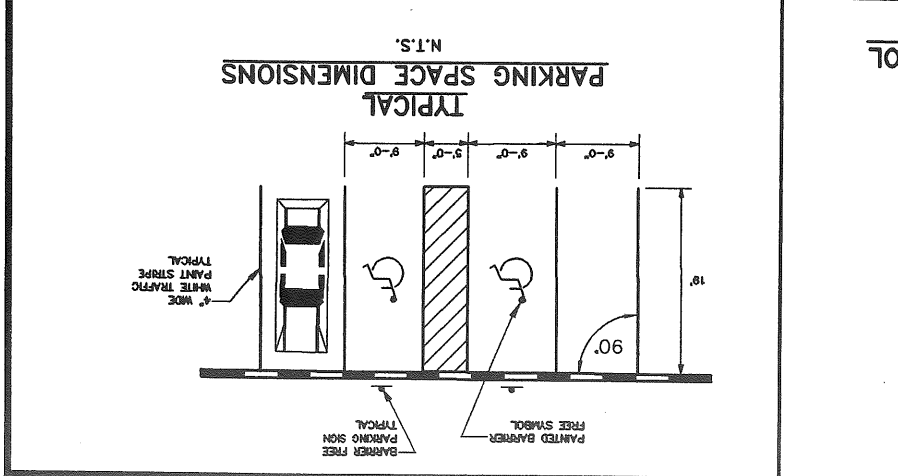
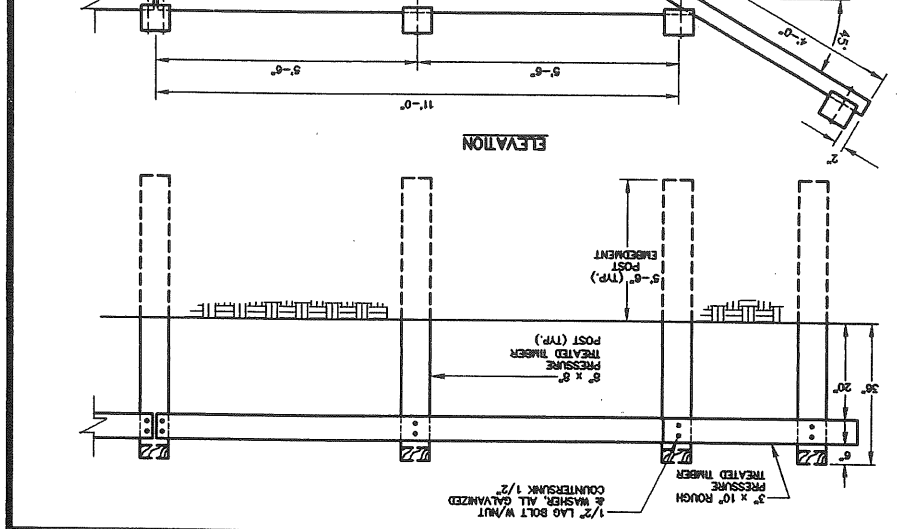
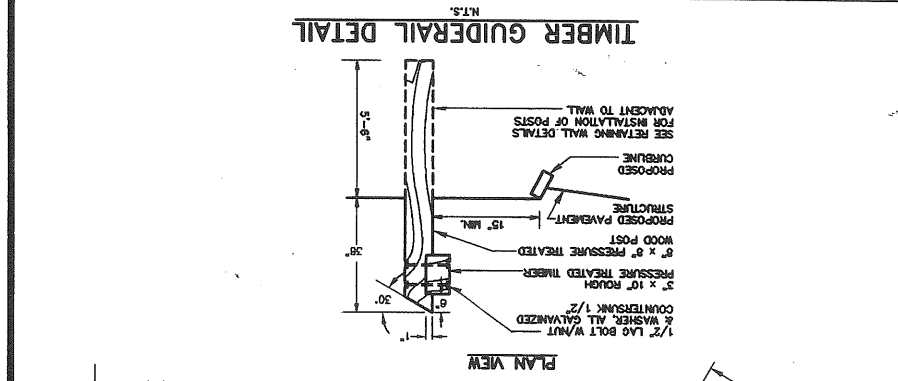
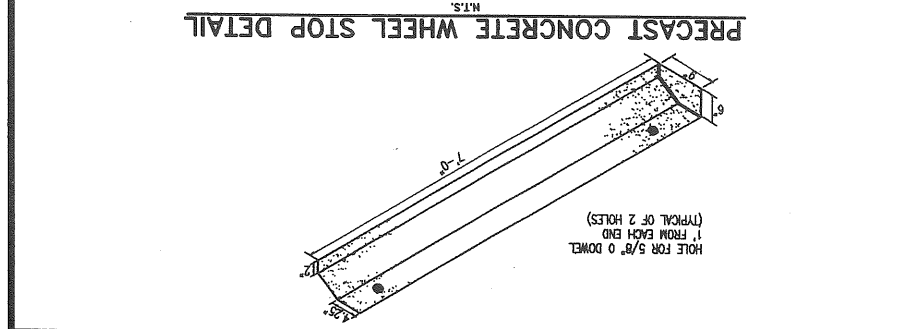
SITE LAYOUT PLAN



PROJECT: VEHICULAR PARKING LOT IMPROVEMENTS  
 SHEET TITLE: SITE DETAILS  
 CLIENT: UNIVERSITY OF MAINE SYSTEM  
 FILE NAME: 207402del.dwg  
 SHEET: 7

REVISIONS

REV	DATE	DESCRIPTION
1	08/15/01	REMOVED PRELIMINARY PLAN SET WITH USM & CITY OF PORTLAND
2	12/21/01	SUBMITTED TO CITY OF PORTLAND
3	02/12/02	REMOVED PER COMMENTS FROM CITY PLANNING DEPARTMENT
4	02/15/02	REMOVED PER COMMENTS OF SEABO TECHNIQS AND RESUBMITTED



PROJECT: VEHICULAR PARKING LOT IMPROVEMENTS  
 SHEET TITLE: SITE DETAILS  
 CLIENT: UNIVERSITY OF MAINE SYSTEM  
 FILE NAME: 207402del.dwg  
 SHEET: 7

REVISIONS

REV	DATE	DESCRIPTION
1	08/15/01	REMOVED PRELIMINARY PLAN SET WITH USM & CITY OF PORTLAND
2	12/21/01	SUBMITTED TO CITY OF PORTLAND
3	02/12/02	REMOVED PER COMMENTS FROM CITY PLANNING DEPARTMENT
4	02/15/02	REMOVED PER COMMENTS OF SEABO TECHNIQS AND RESUBMITTED





# EROSION/SEDIMENTATION CONTROL REPORT

## EROSION AND SEDIMENTATION CONTROL

### 24.0 Erosion/Sedimentation Control Devices

The following erosion and sediment control devices will be implemented as part of the site development. For further reference, see the Erosion and Sediment Control Handbook for Construction: Best Management Practices.

1. Straw or hay mulch is intended to provide cover for denuded or seeded areas until revegetation is established. Mulch placed on slopes of less than 10 percent shall be anchored by applying wetted mulch placed on slopes steeper than 10 percent shall be covered with a fabric netting and anchored with staples in accordance with the manufacturer's recommendations.

2. Sediment traps will be installed at catch basin inlets on site to reduce the amount of silt entering the sewer system. Installation details are provided in the plan set.

3. Loam and seed is intended to serve as the primary permanent or revegetative measure for all denuded areas not receiving pavement or gravel surfacing.

24.1 Temporary Erosion/Sedimentation Control Measures

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

1. Straw or hay mulch is intended to provide cover for denuded or seeded areas until revegetation is established. Mulch placed on slopes of less than 10 percent shall be anchored by applying wetted mulch placed on slopes steeper than 10 percent shall be covered with a fabric netting and anchored with staples in accordance with the manufacturer's recommendations.

2. Sediment traps will be installed at catch basin inlets on site to reduce the amount of silt entering the sewer system. Installation details are provided in the plan set.

3. Loam and seed is intended to serve as the primary permanent or revegetative measure for all denuded areas not receiving pavement or gravel surfacing.

24.4 Construction Schedule

The University anticipates constructing the gravel parking lot located at Alumni House in February of 2002. The other two parking lot improvement areas will be completed during the summer of 2002.

### 24.5 Attachment

Seeding Plan

Project USM Vehicular Parking Lot Improvements

Site Location Portland Campus

Permanent Seeding X Temporary

1. Area to be seeded: \_\_\_\_\_ acres, OR 430 M. Sq.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: \_\_\_\_\_ #/acres, OR 138#/M Sq. Ft.

4. Fertilize with \_\_\_\_\_ pounds of \_\_\_\_\_ N-P-K/ac. OR \_\_\_\_\_ #/1000 sq. ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

80% Kentucky Blue Grass

20% Perennial Ryegrass

7. Mulching instructions: Apply at the rate of \_\_\_\_\_ tons per acre. OR \_\_\_\_\_ #/1000 sq. ft.

8. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

9. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

11. TOTAL MULCH.....115 #/1000 sq. ft.

12. TOTAL OTHER MATERIALS, SEEDS, ETC.....115 #/1000 sq. ft.

13. REMARKS

5. Recommended seeding dates after August 15.

6. For areas with slopes >10%, waterway, areas within 100 feet of the stream, and fall and winter erosion control areas, which netting shall be used per manufacturer's specifications.

8. Complete all remaining earthwork operation including fine grading of slopes and berms.

9. Install base course paving in parking areas, where required.

10. Loam, fertilizer, seed and mulch disturbed areas.

11. Where required on plans, install surface course paving for parking areas and stripe parking stalls.

12. Remove accumulated sediment from diked of any sediment barriers as necessary.

13. Once the site is stabilized and a 75% catch of vegetation has been obtained, remove all temporary erosion control measures.

14. Touch up loam and seed.

Note: All denuded areas not subject to final paving or gravel shall be revegetated with loam and seed.

The Contractor shall submit a schedule for the completion of the work which will satisfy the following criteria:

1. The above construction sequence should generally be completed in the specified order; however, several separate items may be constructed simultaneously. Work must also be scheduled or phased to limit the extent of the exposed areas as specified below. The intent of this sequence is to provide for erosion control and to have structural measures such as hay bales and sediment traps in place before large areas of land are denuded.

### TRENCH SECTION BACKFILL SCHEDULE

TYPE OF PIPE OR MATERIAL	BACKFILL	SPREAD	CONCRETE	OTHER
PVC	3/4" CRUSHED GRANULAR	6"	ASHTO M45-49 A-3	OR BETTER
RCP	3/4" CRUSHED GRANULAR	12"	ASHTO M45-49 A-3	OR BETTER

NOTE: BRACING AND SHEETING OR OTHER PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

1. Area to be seeded: \_\_\_\_\_ acres, OR 430 M. Sq.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: \_\_\_\_\_ #/acres, OR 138#/M Sq. Ft.

4. Fertilize with \_\_\_\_\_ pounds of \_\_\_\_\_ N-P-K/ac. OR \_\_\_\_\_ #/1000 sq. ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

80% Kentucky Blue Grass

20% Perennial Ryegrass

7. Mulching instructions: Apply at the rate of \_\_\_\_\_ tons per acre. OR \_\_\_\_\_ #/1000 sq. ft.

8. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

9. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

11. TOTAL MULCH.....115 #/1000 sq. ft.

12. TOTAL OTHER MATERIALS, SEEDS, ETC.....115 #/1000 sq. ft.

13. REMARKS

5. Recommended seeding dates after August 15.

6. For areas with slopes >10%, waterway, areas within 100 feet of the stream, and fall and winter erosion control areas, which netting shall be used per manufacturer's specifications.

8. Complete all remaining earthwork operation including fine grading of slopes and berms.

9. Install base course paving in parking areas, where required.

10. Loam, fertilizer, seed and mulch disturbed areas.

11. Where required on plans, install surface course paving for parking areas and stripe parking stalls.

12. Remove accumulated sediment from diked of any sediment barriers as necessary.

13. Once the site is stabilized and a 75% catch of vegetation has been obtained, remove all temporary erosion control measures.

14. Touch up loam and seed.

Note: All denuded areas not subject to final paving or gravel shall be revegetated with loam and seed.

The Contractor shall submit a schedule for the completion of the work which will satisfy the following criteria:

REV	DATE	DESCRIPTION
1	02/15/02	REVISED PER COMMENTS OF SEASO TECHNICS AND RESUBMITTED
2	02/15/02	REVISED PER COMMENTS FROM CITY PLANNING DEPARTMENT
3	02/15/02	SUBMITTED TO CITY OF PORTLAND
4	02/15/02	RESEARCHED PRELIMINARY PLAN SET WITH USM & CITY OF PORTLAND

REVISIONS

UC #1417

PROJECT UNIVERSITY OF MAINE SYSTEM

CLIENT UNIVERSITY OF MAINE SYSTEM

SHEET TITLE UTILITY & EROSION CONTROL

IMPROVEMENTS

VEHICULAR PARKING LOT

PROJECT DELUCA-HOFFMAN ASSOCIATES, INC. 778 MAIN STREET, SUITE B SOUTH PORTLAND, ME 04108 (207) 775-1121

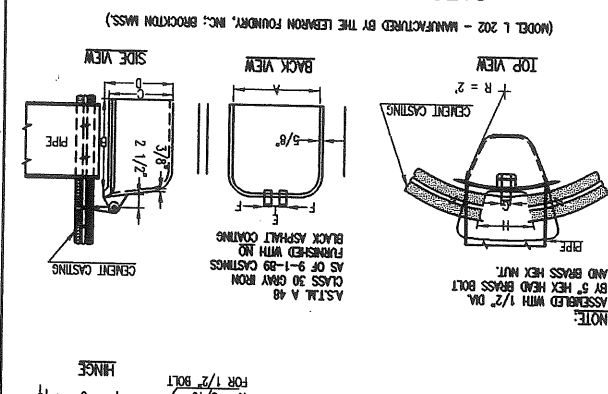
DESIGNED: JAL SCALE: AS SHOWN

CHECKED: JAL JOB NO. 2074.02

FILE NAME: 2074020.dwg

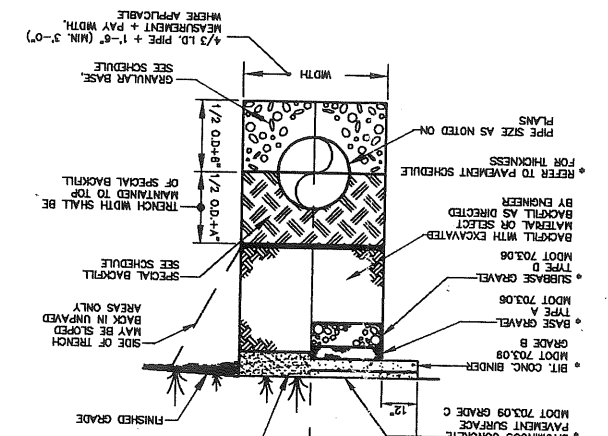
SHEET 8

### CATCH BASIN TRAP DETAIL



DIMENSIONS	A	B	C	D	E	F	G	H
10" PIPE	18	18	10	11.25	2	1	1.75	14

### TYPICAL UTILITY PIPE TRENCH SECTION



1. Area to be seeded: \_\_\_\_\_ acres, OR 430 M. Sq.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: \_\_\_\_\_ #/acres, OR 138#/M Sq. Ft.

4. Fertilize with \_\_\_\_\_ pounds of \_\_\_\_\_ N-P-K/ac. OR \_\_\_\_\_ #/1000 sq. ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

80% Kentucky Blue Grass

20% Perennial Ryegrass

7. Mulching instructions: Apply at the rate of \_\_\_\_\_ tons per acre. OR \_\_\_\_\_ #/1000 sq. ft.

8. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

9. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

11. TOTAL MULCH.....115 #/1000 sq. ft.

12. TOTAL OTHER MATERIALS, SEEDS, ETC.....115 #/1000 sq. ft.

13. REMARKS

5. Recommended seeding dates after August 15.

6. For areas with slopes >10%, waterway, areas within 100 feet of the stream, and fall and winter erosion control areas, which netting shall be used per manufacturer's specifications.

8. Complete all remaining earthwork operation including fine grading of slopes and berms.

9. Install base course paving in parking areas, where required.

10. Loam, fertilizer, seed and mulch disturbed areas.

11. Where required on plans, install surface course paving for parking areas and stripe parking stalls.

12. Remove accumulated sediment from diked of any sediment barriers as necessary.

13. Once the site is stabilized and a 75% catch of vegetation has been obtained, remove all temporary erosion control measures.

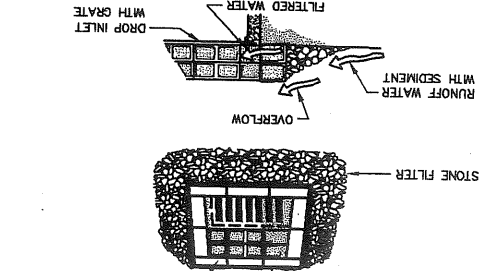
14. Touch up loam and seed.

Note: All denuded areas not subject to final paving or gravel shall be revegetated with loam and seed.

The Contractor shall submit a schedule for the completion of the work which will satisfy the following criteria:

1. The above construction sequence should generally be completed in the specified order; however, several separate items may be constructed simultaneously. Work must also be scheduled or phased to limit the extent of the exposed areas as specified below. The intent of this sequence is to provide for erosion control and to have structural measures such as hay bales and sediment traps in place before large areas of land are denuded.

### TYPICAL UNDERDRAIN TRENCH SECTION



1. Area to be seeded: \_\_\_\_\_ acres, OR 430 M. Sq.

2. Instructions on preparation of soil: Prepare a good seed bed for planting method used.

3. Apply lime as follows: \_\_\_\_\_ #/acres, OR 138#/M Sq. Ft.

4. Fertilize with \_\_\_\_\_ pounds of \_\_\_\_\_ N-P-K/ac. OR \_\_\_\_\_ #/1000 sq. ft.

5. Method of applying lime and fertilizer: Spread and work into the soil before seeding.

6. Seed with the following mixture:

80% Kentucky Blue Grass

20% Perennial Ryegrass

7. Mulching instructions: Apply at the rate of \_\_\_\_\_ tons per acre. OR \_\_\_\_\_ #/1000 sq. ft.

8. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

9. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

11. TOTAL MULCH.....115 #/1000 sq. ft.

12. TOTAL OTHER MATERIALS, SEEDS, ETC.....115 #/1000 sq. ft.

13. REMARKS

5. Recommended seeding dates after August 15.

6. For areas with slopes >10%, waterway, areas within 100 feet of the stream, and fall and winter erosion control areas, which netting shall be used per manufacturer's specifications.

8. Complete all remaining earthwork operation including fine grading of slopes and berms.

9. Install base course paving in parking areas, where required.

10. Loam, fertilizer, seed and mulch disturbed areas.

11. Where required on plans, install surface course paving for parking areas and stripe parking stalls.

12. Remove accumulated sediment from diked of any sediment barriers as necessary.

13. Once the site is stabilized and a 75% catch of vegetation has been obtained, remove all temporary erosion control measures.

14. Touch up loam and seed.

Note: All denuded areas not subject to final paving or gravel shall be revegetated with loam and seed.

The Contractor shall submit a schedule for the completion of the work which will satisfy the following criteria:

1. The above construction sequence should generally be completed in the specified order; however, several separate items may be constructed simultaneously. Work must also be scheduled or phased to limit the extent of the exposed areas as specified below. The intent of this sequence is to provide for erosion control and to have structural measures such as hay bales and sediment traps in place before large areas of land are denuded.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of

24.2 Temporary Erosion/Sedimentation Control Measures

24.1 Temporary Erosion/Sedimentation Control Measures

gravel surfacing.

The following are planned as temporary erosion/sedimentation control measures during construction:

1. All rough graded areas that are not located within the parking and subgrade areas, shall receive mulch or erosion control mesh fabric within 7 days of initial disturbance of soil.

2. For work which is conducted between November 1 and April 15 of any calendar year, all denuded areas will be covered with hay mulch applied at twice the normal application rate and anchored with 7 days for all areas.

3. All adjacent streets shall be swept to control mud and dust as follows:

13. REMARKS

11. TOTAL MULCH.....115 #/1000 sq. ft.

10. TOTAL SEED.....2.30 #/1000 sq. ft.

9. TOTAL FERTILIZER.....18.4 #/1000 sq. ft.

8. TOTAL LIME.....138 #/1000 sq. ft.

Amount Unit # Tons, Etc.

115 pounds per M. Sq. Ft.

Apply at the rate of