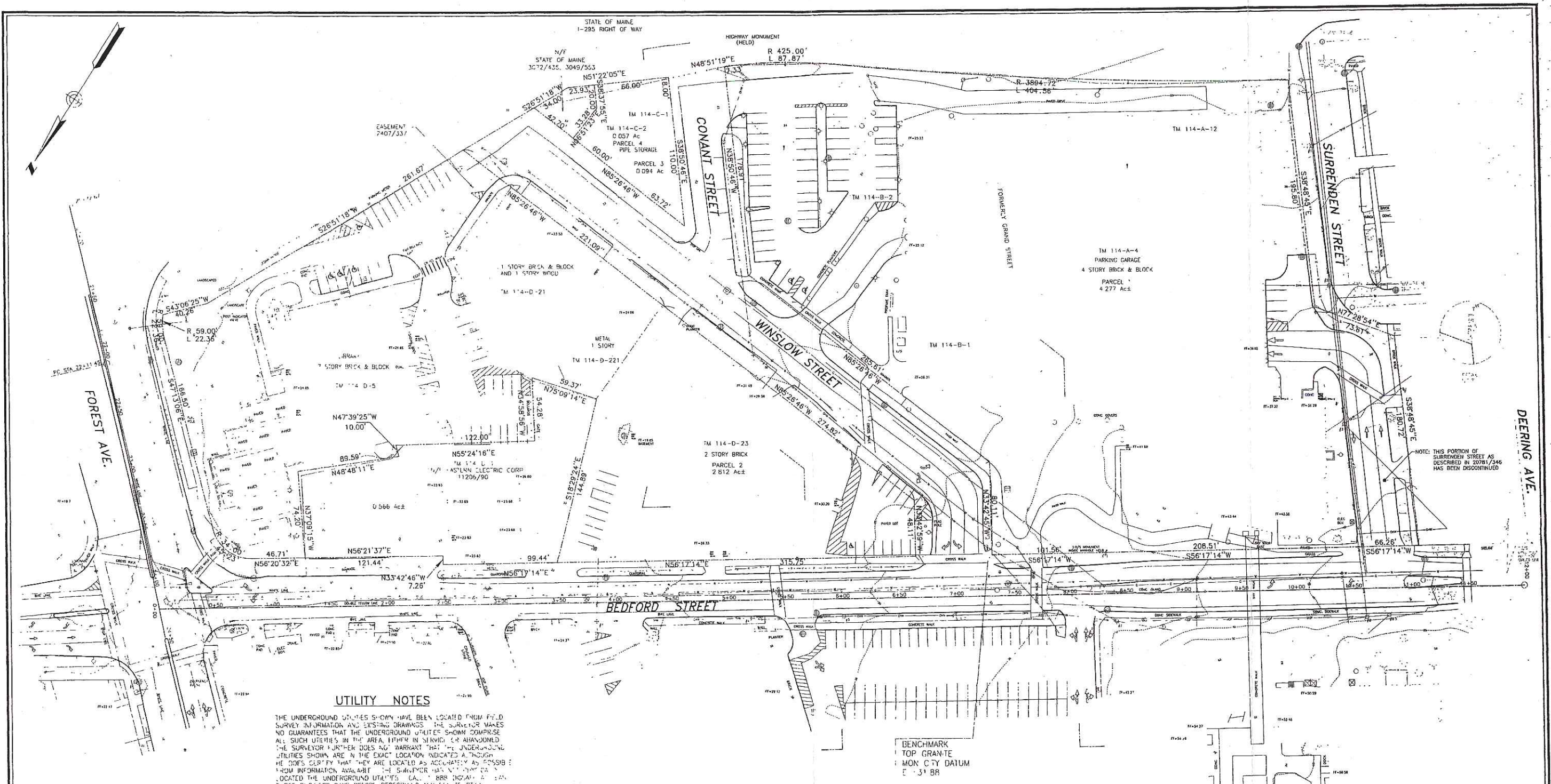


114-A-4

Bedford St.

Discontinuance of Bedford and Conant

USM



**UTILITY NOTES**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. UTILITIES IN SERVICE OR ABANDONED THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, THOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT BEEN REQUIRED TO LOCATE THE UNDERGROUND UTILITIES. CALL 800-455-4545 AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.

BENCHMARK  
TOP GRANITE  
MON. CITY DATUM  
E 31 BR

NOTE: THIS PORTION OF SURRENDEN STREET AS DESCRIBED IN 2078/345 HAS BEEN DISCONTINUED

**LEGEND**

- SEWER MAIN (12" dia)
- SEWER BRANCH (6" dia)
- CATCH BASIN (10' SCALE)
- TELECOM SERVICE BOX (18" dia)
- ELECTRIC MAIN (4" dia)
- TRANSFORMER (15' dia)
- 11 KV POLE (15' dia)
- 11 KV TOWER (15' dia)
- GAS METER BOX (18" dia)
- GAS GATE (18" dia)
- WATER GATE (18" dia)
- HYDRANT (18" dia)
- WATER WELL (18" dia)
- SDX (18" dia)
- CONCRETE WALL (18" dia)
- REINFORCED CONCRETE WALL (18" dia)
- MONUMENTS (18" dia)

**GENERAL NOTES**

1. ALL RECORDS BY THE STATE OF MAINE ARE REFERENCED TO THE REGISTERED PLAT BOOKS OF THE STATE OF MAINE.
2. ALL RECORDS BY THE STATE OF MAINE ARE REFERENCED TO THE REGISTERED PLAT BOOKS OF THE STATE OF MAINE.
3. ALL RECORDS BY THE STATE OF MAINE ARE REFERENCED TO THE REGISTERED PLAT BOOKS OF THE STATE OF MAINE.
4. ALL RECORDS BY THE STATE OF MAINE ARE REFERENCED TO THE REGISTERED PLAT BOOKS OF THE STATE OF MAINE.

**PLAN REFERENCES**

1. STANDARD BOUNDARY AND TOPOGRAPHIC SURVEY, COMMUNITY EDUCATION FACILITY AND PARKING GARAGE DATED FEBRUARY 19, 2002 BY DEB ASSOCIATES, INC.
2. STANDARD BOUNDARY AND TOPOGRAPHIC SURVEY, JOHNSON SUPPLY SITE UNIVERSITY OF SOUTHERN MAINE DATED JULY 26, 1990 BY DEB ASSOCIATES.
3. EXISTING CONDITIONS PLAN ON GRAND STREET, PORTLAND, MAINE MADE FOR DELUCA-HOFFMAN ASSOC., INC. DATED MAY 23, 2001 BY OWEN HASKELL, INC.
4. PLAN OF LAND IN PORTLAND, MAINE FOR FREDERICK J. OLSEN DATED MAY 15, 1979 BY OWEN HASKELL, INC.
5. PLAN DATED JANUARY 1918 BY "OFFICE OF E.C. JORDAN & CO., CIVIL ENGINEERS" SHOWING THE BLOCK BOUNDED BY BEDFORD AND WINSLOW STREETS AND AN "ABANDONED RAILROAD LOCATION."
6. PLAN MADE FOR FOREST CITY MOTOR CO. DATED JUNE 4, 1924 BY L. C. JORDAN & CO.
7. PLAN OF LAND IN PORTLAND, MAINE FOR FREDERICK J. OLSEN DATED MAY 15, 1979 BY OWEN HASKELL, INC.
8. MAINE STATE HIGHWAY COMMISSION RIGHT OF WAY MAP STATE HIGHWAY 201 DATED AUGUST 1967 BY THE STATE OF MAINE.
9. BLUE PRINTS OBTAINED FROM THE CITY OF PORTLAND'S ENGINEERING DEPARTMENT.
10. CITY OF PORTLAND'S APPLICATOR'S MAPS.

**CERTIFICATION**

OWEN HASKELL, INC. HEREBY CERTIFIES THAT THIS PLAN IS BASED ON, AND THE RESULT OF, AN ON THE GROUND FIELD SURVEY AND THAT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, IT CONFORMS TO THE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS CURRENT STANDARDS OF PRACTICE.

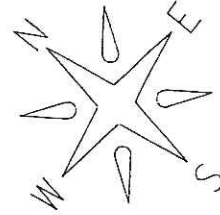
REV 5/11-02-06	ADJUSTED STREET LINES TO CITY CONTROL
REV 4/07-05-06	1-295 R.O.W. AMENDED
REV 3/06-02-06	MISC. CHANGES AS PER CITY
REV 2/03-07-06	MISC. CHANGES
REV 1/12-09-05	MISC. CHANGES

**BOUNDARY & TOPOGRAPHIC**  
ON  
BEDFORD STREET, USM CAMPUS PORTLAND, MAINE  
MADE FOR  
**WOODARD & CURRAN, INC.**  
41 HUTCHINS DR. PORTLAND, MAINE

**OWEN HASKELL, INC.**  
16 CASCO ST., PORTLAND, ME 04101 (207) 774-0424  
PROFESSIONAL LAND SURVEYORS

Drawn By	RRR	Date	SEPTEMBER 08, 2005	Job No.	2005-111 P
Trace By	RWC	Scale	1" = 40'	Drawn No.	1
Check By	JWS				
Book No.	976				





Portland  
Node # 9636  
Study period 2003-2005  
# of Accidents-36  
Prepared by M&O Traffic Engineering

Forest Ave

8192 3-3-03 7:55A D/C Driver Inattention

- 12194 4-11-03 5:43P W/R Driver Inattention
- 20069 5-13-03 5:00P D/C Driver Inattention
- 20077 5-16-03 10:56A D/C Driver Inattention
- 20805 6-12-03 6:07P D/C Driver Inattention
- 26408 7-28-03 4:00P D/C Driver Inattention
- 26779 8-6-03 2:45P D/C Driver Inattention
- 27548 8-29-03 7:25A D/C Driver Inattention
- 30255 9-15-03 10:07A D/C Driver Inattention
- 31178 9-16-03 3:00P W/C Driver Inattention
- 37563 11-22-03 11:11A D/C Driver Inattention
- 4573 1-9-04 8:00A D/C Driver Inattention
- 4776 1-14-04 9:14A D/C Driver Inattention
- 7899 2-23-04 9:11A W/C Driver Inattention
- 8811 3-9-04 3:59P D/C Driver Inattention
- 8970 3-13-04 5:14P D/C Driver Inattention
- 1024 3-25-04 3:48P W/R Driver Inattention
- 10293 3-30-04 9:19A D/C Driver Inattention
- 10939 6-2-04 2:40P D/C Driver Inattention
- 15752 7-17-04 10:37A D/C Driver Inattention
- 29684 8-3-04 8:50A D/C Driver Inattention
- 3285 9-8-04 7:46A D/C Driver Inattention
- 33019 9-30-04 2:10P D/C Driver Inattention
- 39845 12-10-04 1:43P W/R Driver Inattention
- 04702 1-18-05 3:00P D/C Driver Inattention
- 06040 2-7-05 12:00P W/C Driver Inattention
- 12875 3-18-05 4:46P D/C Driver Inattention
- 09947 2-17-05 2:40P D/C Driver Inattention
- 23200 7-28-05 5:53P D/C Driver Inattention
- 39746 10-13-05 1:55P D/C Driver Inattention
- 23136 7-18-05 8:41A D/C Driver Inattention
- 00450 1-8-05 5:55P S/S Speed
- 23193 7-28-05 12:41P D/C Driver Inattention
- 10990 2-24-05 5:14P D/C Driver Inattention
- 12882 3-19-05 1:53P D/C Driver Inattention

Yield

Architect  
**Koetter | Kim & Associates Inc.**  
 356 Boylston Street  
 Boston, MA 02116  
 T: (617) 636-8560  
 F: (617) 636-1217

Consultants

<p>Civil Engineer:  <b>Woodard &amp; Curran</b>        41 Hutchins Drive        Portland, ME 04102        T: (207) 774-2112        F: (207) 774-6835</p>	<p>Lighting:  <b>Staden Felsstein Int. Lighting Inc.</b>        73 Hannebury Street        Boston, MA 02115        T: (617) 267-8500        F: (617) 267-2045</p>
<p>Landscape Architect:  <b>Carol R. Johnson Associates</b>        116 Broad Street        Boston, MA 02110        T: (617) 886-2690        F: (617) 886-2340</p>	<p>Specification:  <b>Collective Wisdom Corporation</b>        75 Bay State Road        Weston, MA 02463        T: (781) 647-7732        F: (781) 647-5297</p>
<p>Structural Engineer:  <b>Weilinger</b>        201 Brimley 4th Floor        Cambridge, MA 02139        T: (617) 374-0000        F: (617) 374-0010</p>	<p>Traffic:  <b>Gerrill-Palmer Inc.</b>        15 Shaker Road        Gray, ME 04039        T: (207) 657-6810        F: (207) 657-6812</p>
<p>MEP:  <b>Herriman Associates</b>        One Auburn Business Park        Auburn, ME 04210        T: (207) 784-8100        F: (207) 782-3017</p>	<p>Geotech:  <b>Haley &amp; Aldrich, Inc.</b>        465 Medford Street Suite 2200        Boston MA 02128-1400        T: (617) 686-7400        F: (617) 686-7600</p>

Issue  
**DESIGN**

Revisions

Project  
**University Commons**  
 University of Southern Maine

Drawing Title  
**PRE-DEVELOPMENT STORMWATER MANAGEMENT PLAN**

Scale: 1" = 40' @ FULL SIZE

KWA Project Number  
 0510.000


Drawn By  
 JBC/ADE

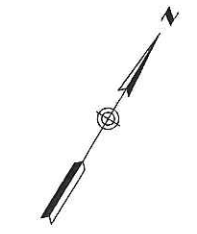
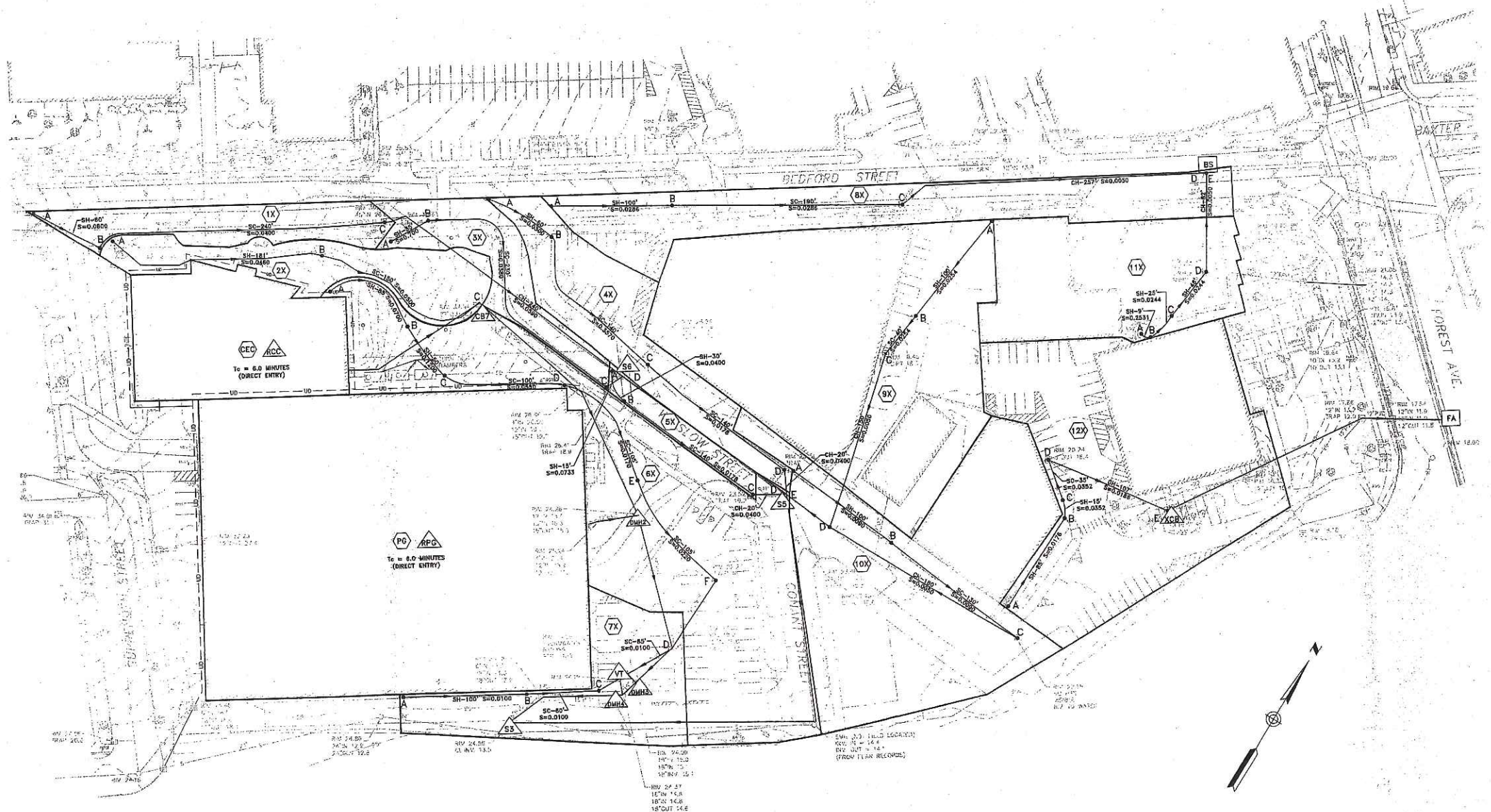
Checked By  
 KR/BSS









Date  
 AUGUST 2006

Issue  
 -

Drawing Number  
**Figure 12.1**

Approval  
  
 August 11, 2006



-  PRE-DEVELOPMENT POND/CATCH BASIN
-  PRE-DEVELOPMENT REACH
-  PRE-DEVELOPMENT SUBCATCHMENT AREA
-  TIME OF CONCENTRATION PATH, To
-  SHEET FLOW
-  SHALLOW CONCENTRATED FLOW
-  CHANNELIZED (PPE) FLOW
-  SLOPE

USM University Commons, Portland, ME. Architect: Koetter, Kim & Associates Inc. 356 Boylston Street, Boston, MA 02116.



**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

356 Boylston Street  
Boston, MA 02116  
T: (617) 536-8560  
F: (617) 536-1217

Consultants

**Civil Engineer:**  
Woodard & Curran  
41 Huxtable Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6633

**Lighting:**  
Stalen Fainstein Int. Lighting Inc.  
73 Hemenway Street  
Boston, MA 02115  
T: (617) 267-9500  
F: (617) 267-2045

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 896-2560  
F: (617) 896-2340

**Specification:**  
Collective Window Corporation  
75 Bay State Road  
Weston, MA 02483  
T: (781) 647-7732  
F: (781) 647-5257

**Structural Engineer:**  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

**Traffic:**  
Gornil-Palmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 657-6910  
F: (207) 657-6912

**MEP:**  
Hartman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

**Geotech:**  
Haley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2617  
T: (207) 482-4609  
F: (207) 482-4699

Issue

**SILOD AMENDMENT - ADDITIONAL INFORMATION**  
December 5, 2006

Revisions

Project

**University Commons**  
University of Southern Maine

Drawing Title

**POST-DEVELOPMENT  
STORMWATER  
MANAGEMENT PLAN**

Scale: 1" = 40' @ FULL SIZE

KKA Project Number: 0510.000

Drawn By: JBC/ADE

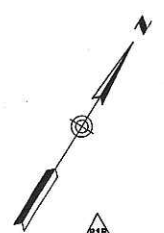
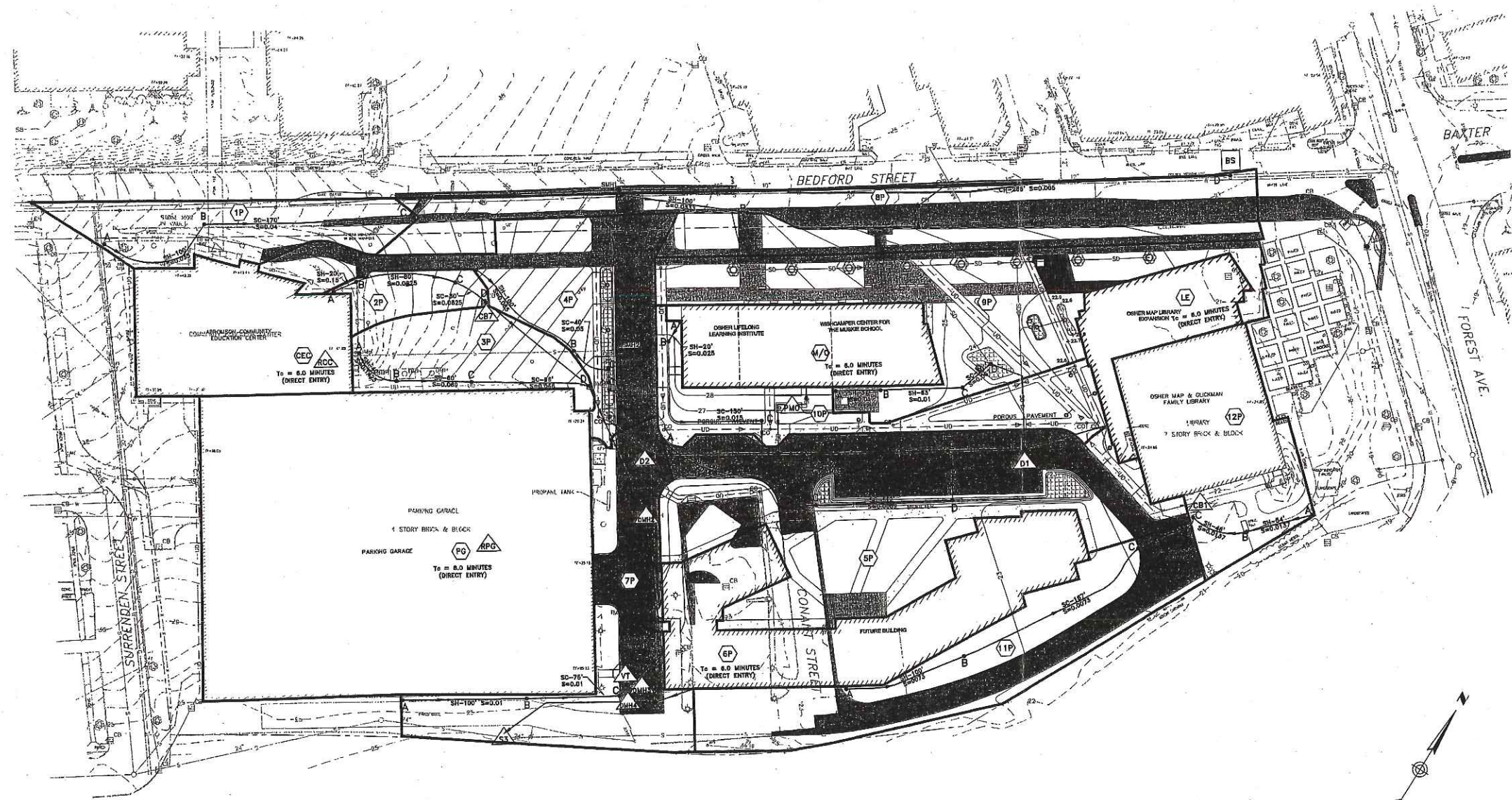
Checked By: KRV/BSS

Date: December 5, 2006

Issue: SILOD Documents

Drawing Number

Figure 12.2



- POST-DEVELOPMENT POND/CATCH BASIN
- POST-DEVELOPMENT REACH
- POST-DEVELOPMENT SUBCATCHMENT AREA
- TIME OF CONCENTRATION PATH, To
- SHEET FLOW
- SHALLOW CONCENTRATED FLOW
- CHANNELIZED (PIPE) FLOW
- SLOPE

Consultants

Civil Engineer:  
Woodward & Curran  
41 Hutchins Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6836

Lighting:  
Sladen Feinstein Int. Lighting Inc.  
73 Hemeway Street  
Boston, MA 02115  
T: (617) 287-9500  
F: (617) 287-2945

Landscape Architect:  
Cavali R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 896-2500  
F: (617) 896-2340

Specification:  
Collective Wisdom Corporation  
75 Bay State Road  
Weston, MA 02469  
T: (781) 847-7322  
F: (781) 847-5287

Structural Engineer:  
Weldinger  
221 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

Traffic:  
Gerrill-Palmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 657-6940  
F: (207) 657-6912

MEP:  
Harriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-6100  
F: (207) 782-3017

Geotech:  
Haley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2617  
T: (207) 482-4608  
F: (207) 482-4658

Issue  
SLOD AMENDMENT - ADDITIONAL INFORMATION  
December 5, 2008

Revisions  
REV 1 - BIORETENTION CELL SIZING TABLE & REV LAYOUT  
12/04/2008

Project  
**University Commons**  
University of Southern Maine

Drawing Title  
**POST-DEVELOPMENT  
STORMWATER  
TREATMENT PLAN**

Scale  
1" = 40' @ FULL SIZE

JKCA Project Number  
0510.000

Drawn By  
JBC/JDE

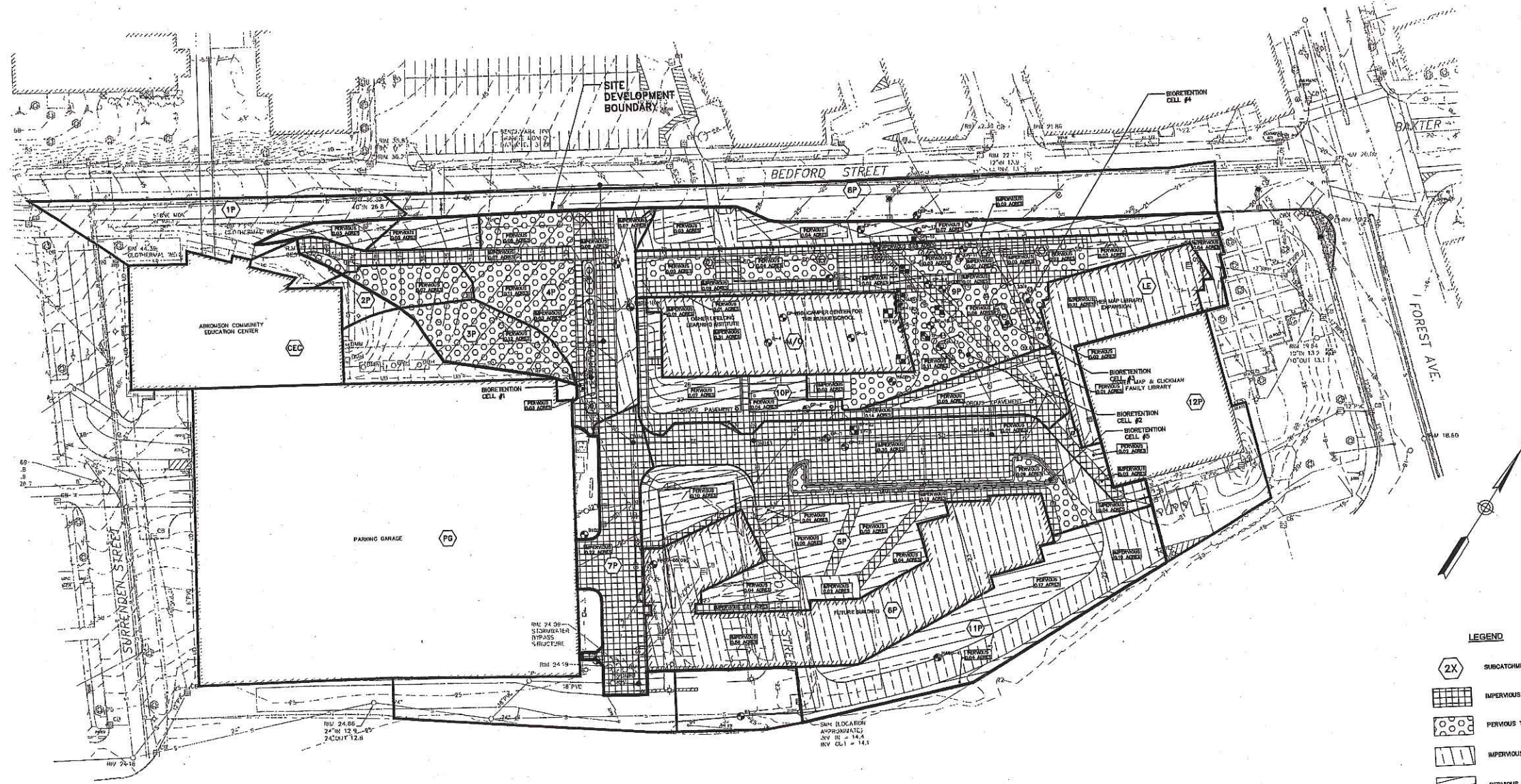
Checked By  
KRV/BSS

Date  
December 5, 2008

Issue  
SLOD Documents

Drawing Number

**Figure 12.3**



**LEGEND**

2X SUBCATCHMENT AREA

IMPERVIOUS TREATED

PERVIOUS TREATED

IMPERVIOUS UNTREATED

PERVIOUS UNTREATED

BORING

GEO-PROBE

**TABLE 1**

SUBCATCHMENT	AREA WITHIN SITE DEVELOPMENT BOUNDARY (ACRES)								NEW BIOTYPES (IMP. REQUIRED)				NEW BIOTYPES (IMP. REQUIRED)						
	ROOF	PAVEMENT	FORGIE PAVEMENT	LANDSCAPED	ROOF	PAVEMENT	FORGIE PAVEMENT	LANDSCAPED	EX. ROOF / PROP. ROOF	EX. PAVED / PROP. PAVED	EX. FURF. / PROP. FURF.	EX. FURF. / PROP. FURF.	PROP. ROOF	PROP. PAVEMENT	PROP. FURF.	PROP. LANDSCAPED			
1P	-	-	-	0.03	-	-	-	0.07	-	-	-	-	-	-	-	0.07			
2P	-	0.02	-	0.05	-	-	-	0.13	-	-	-	-	-	-	-	0.18			
3P	-	0.01	-	0.03	-	-	-	0.11	0.03	-	-	-	0.03	0.02	0.19	0.41			
4P	-	0.40	-	0.04	-	-	-	0.41	0.15	0.41	-	-	-	-	-	-			
5P	0.21	0.09	-	0.08	-	-	-	-	-	-	-	0.11	0.33	-	0.47	-			
6P	0.11	0.09	-	0.07	0.08	-	-	-	-	-	-	-	0.17	-	0.35	0.18			
7P	-	0.17	-	0.05	-	-	-	0.23	-	-	-	-	0.03	-	0.26	-			
8P	0.10	0.10	-	0.05	-	-	-	0.09	-	0.10	-	-	-	-	0.22	0.35			
9P	0.31	0.03	-	0.01	-	-	-	0.24	0.04	0.35	-	-	0.13	0.03	0.51	0.41			
10P	0.00	0.22	-	0.21	-	-	-	0.14	0.18	-	-	-	-	0.19	0.21	0.21			
11P	-	0.08	-	0.02	-	-	-	0.10	-	0.21	-	-	-	-	0.30	-			
12P	0.28	0.05	-	-	0.21	-	-	0.21	-	-	-	0.20	0.05	-	0.47	-			
13P	0.08	0.04	-	0.03	0.21	-	-	0.21	-	0.14	-	-	-	-	0.46	0.19			
<b>TOTAL</b>	<b>1.15</b>	<b>0.91</b>	-	<b>0.51</b>	<b>1.09</b>	<b>1.37</b>	<b>0.33</b>	<b>1.73</b>	<b>0.42</b>	<b>0.87</b>	<b>0.92</b>	<b>0.34</b>	<b>0.28</b>	<b>0.45</b>	<b>0.15</b>	<b>1.70</b>			
<b>TOTAL EXISTING</b>				<b>4.85</b>	<b>TOTAL PROPOSED</b>				<b>4.80</b>	<b>TOTAL NOT REQUIRING TREATMENT</b>				<b>2.38</b>	<b>NEW BIOTYPES - IMP. REQUIRED</b>				<b>2.41</b>

**TABLE 2**

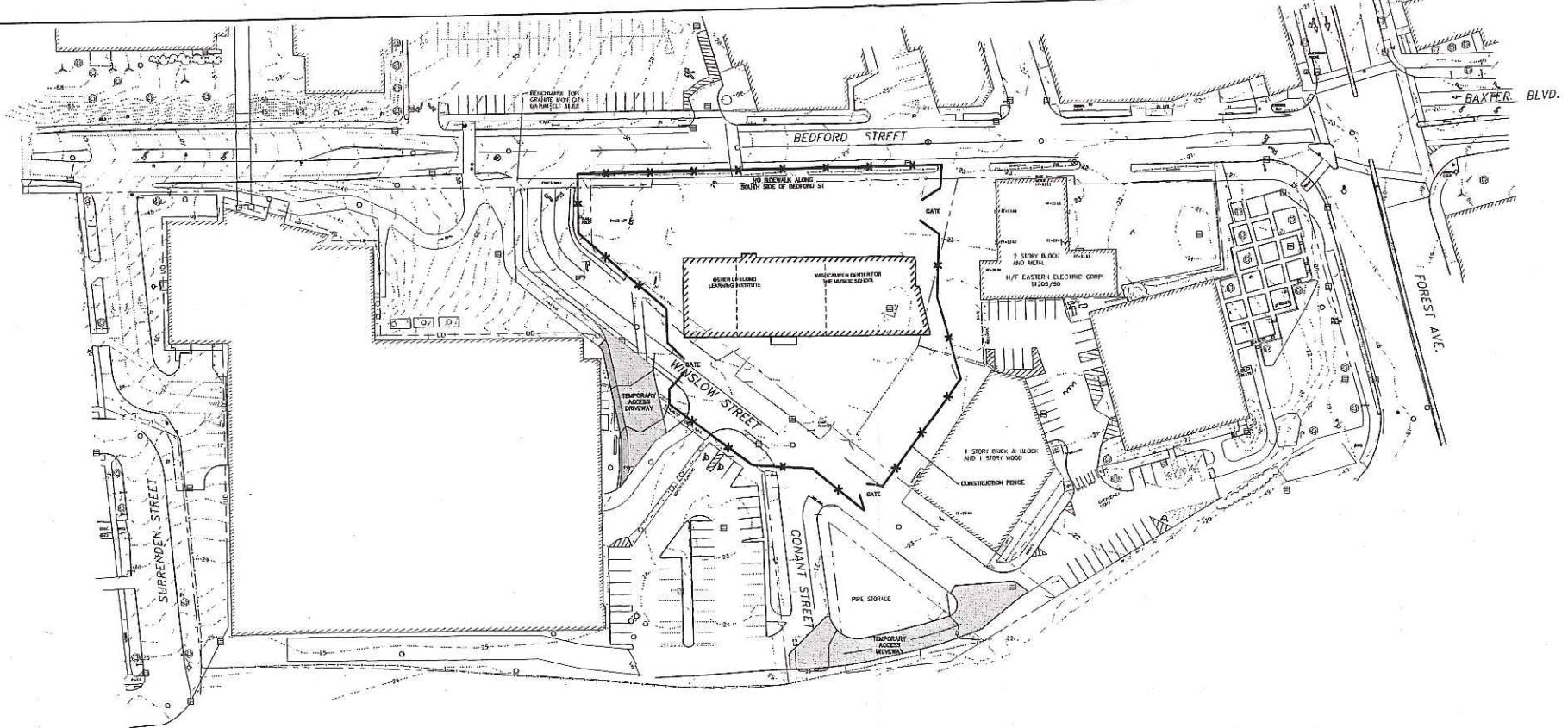
TYPE OF SURFACE	NEW AREA ON SITE	TREATMENT AREAS (ACRES)			
		PERCENTAGE REQUIRED TO BE TREATED	AREA REQUIRED TO BE TREATED	AREA PROPOSED FOR TREATMENT	PERCENTAGE TREATED ON SITE
IMPERVIOUS	0.66	85%	0.01	1.28	193.0%
PERVIOUS	1.76	80%	0.02	2.07	45.1%
<b>TOTAL</b>	<b>2.41</b>				<b>85.0%</b>

- SEE TABLE 1, "NEW SURFACES (IMP. REQUIRED) TOTAL"
- PER CHAPTER 604, STORMWATER MANAGEMENT, 604(1)(b)
- "AREA PROPOSED FOR TREATMENT" IS A TABULATION OF THE "IMPERVIOUS TREATED" AND "PERVIOUS TREATED" (SEE LEGEND) AREAS DEPICTED ON THIS FIGURE
- CALCULATED AS "AREA PROPOSED FOR TREATMENT" DIVIDED BY "NEW AREA ON SITE" x 100%

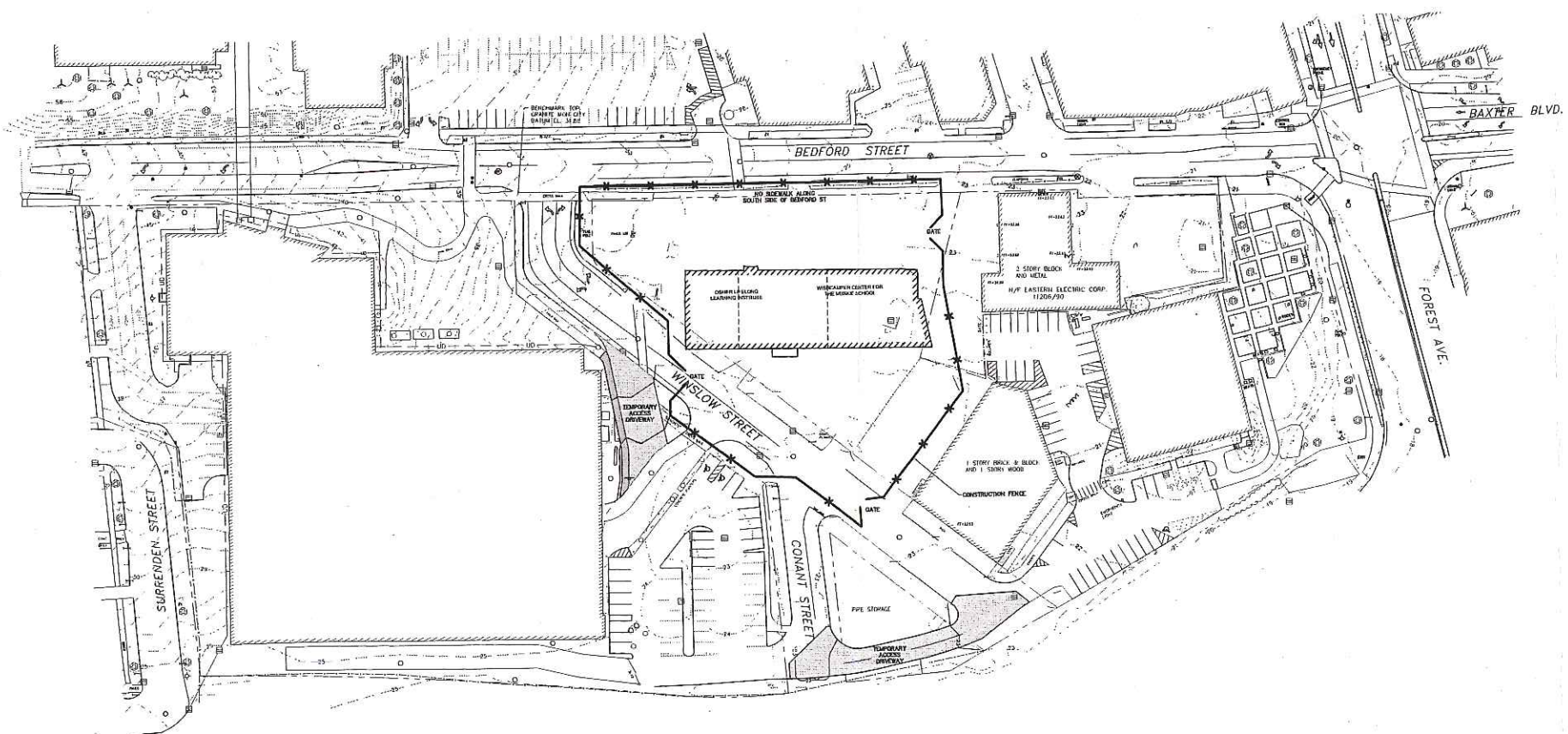
**TABLE 3**

BIORETENTION CELL	SUBCATCHMENTS TREATED	IMPERVIOUS AREA TREATED (ACRES)	PERVIOUS RUNOFF VOLUME TREATED (FT <sup>3</sup> )	PERVIOUS AREA TREATED (ACRES)	PERVIOUS RUNOFF VOLUME TREATED (FT <sup>3</sup> )	WATER QUALITY VOLUME REQUIRED (FT <sup>3</sup> )	AREA OF BIORETENTION CELL (FT <sup>2</sup> )	WATER QUALITY VOLUME PROVIDED (FT <sup>3</sup> )
#1	4P	0.15	944.5	0.19	276.0	628.4	1,298.0	1,068.0
#2	8P	0.09	260.4	0.11	169.7	450.1	485.0	485.0
#3	8P	0.01	38.2	0.08	87.1	123.4	193.0	193.0
#4	8P	0.02	72.6	0.02	28.0	101.8	135.0	135.0
#5	6P	0.25	1,270.8	0.09	130.7	1,491.2	1,524.0	1,524.0

- TABULATION OF AREA CONTRIBUTING TO EACH BIORETENTION CELL
- CALCULATED AS "IMPERVIOUS AREA TREATED" X (43,800 SQ FT/ACRES) X 1.5" RUNOFF X (1 FT/12")
- CALCULATED AS "IMPERVIOUS AREA TREATED" X (43,800 SQ FT/ACRES) X 0.4" RUNOFF X (1 FT/12")
- CALCULATED AS "IMPERVIOUS RUNOFF VOLUME TREATED" + "PERVIOUS RUNOFF VOLUME TREATED"
- CALCULATED AS "AREA OF BIORETENTION CELL" X (6" X 1.5" TREATMENT MEDIA DEPTH) + 0.2' STORAGE VOLUME



CONSTRUCTION SEQUENCE PLAN 01/01/07-05/30/07



CONSTRUCTION SEQUENCE PLAN 05/30/07-07/30/07

PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION



**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

355 Boylston Street  
Boston, MA 02116  
T: (617) 535-8590  
F: (617) 535-1217

Consultants

**Civil Engineer:**  
Woodard & Curran  
41 Hutchins Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-8635

**Lighting:**  
Staden Feinstadt Int'l. Lighting Inc.  
73 Hemenway Street  
Boston, MA 02115  
T: (617) 267-8500  
F: (617) 267-2045

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 896-2590  
F: (617) 896-2340

**Specification:**  
Collective Wisdom Corporation  
75 Bay State Road  
Weymouth, MA 02493  
T: (781) 657-7722  
F: (781) 647-5287

**Structural Engineer:**  
Widdinger  
201 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

**Traffic:**  
Gensil-Palmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 657-6910  
F: (207) 657-6912

**MEP:**  
Harriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

**Geotech:**  
Halley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2817  
T: (207) 482-4809  
F: (207) 482-4859

Issues

Revisions	DATE	DESCRIPTION
1	2 / 12 / 2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project  
**University Commons**  
University of Southern Maine

Drawing Title  
**CONSTRUCTION STAGING PLAN**

0 50 100  
1" = 50' @ FULL SIZE

Approval

KICA Project Number  
0510.000

Drawn By  
BCM/DAS

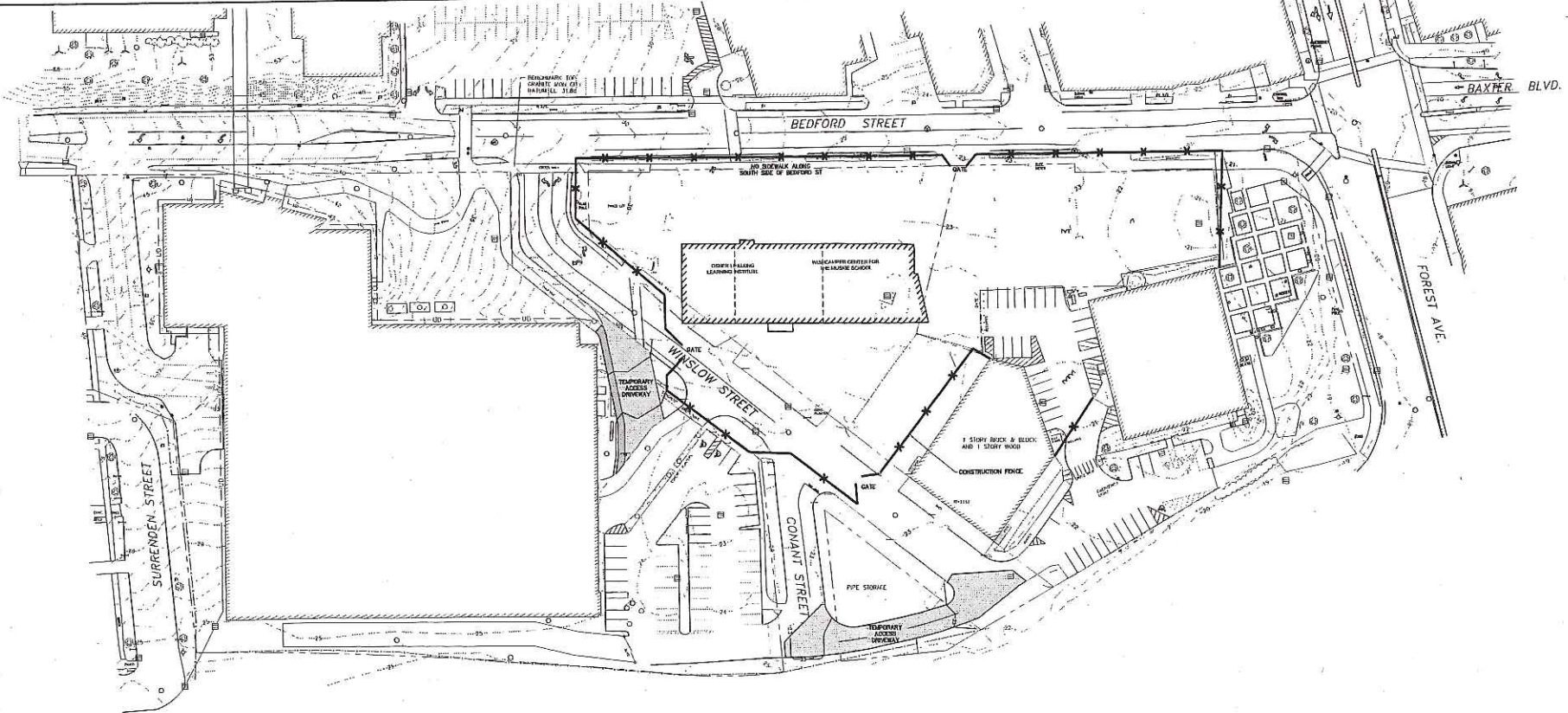
Checked By  
DAS/BSS

Date  
February 12, 2007

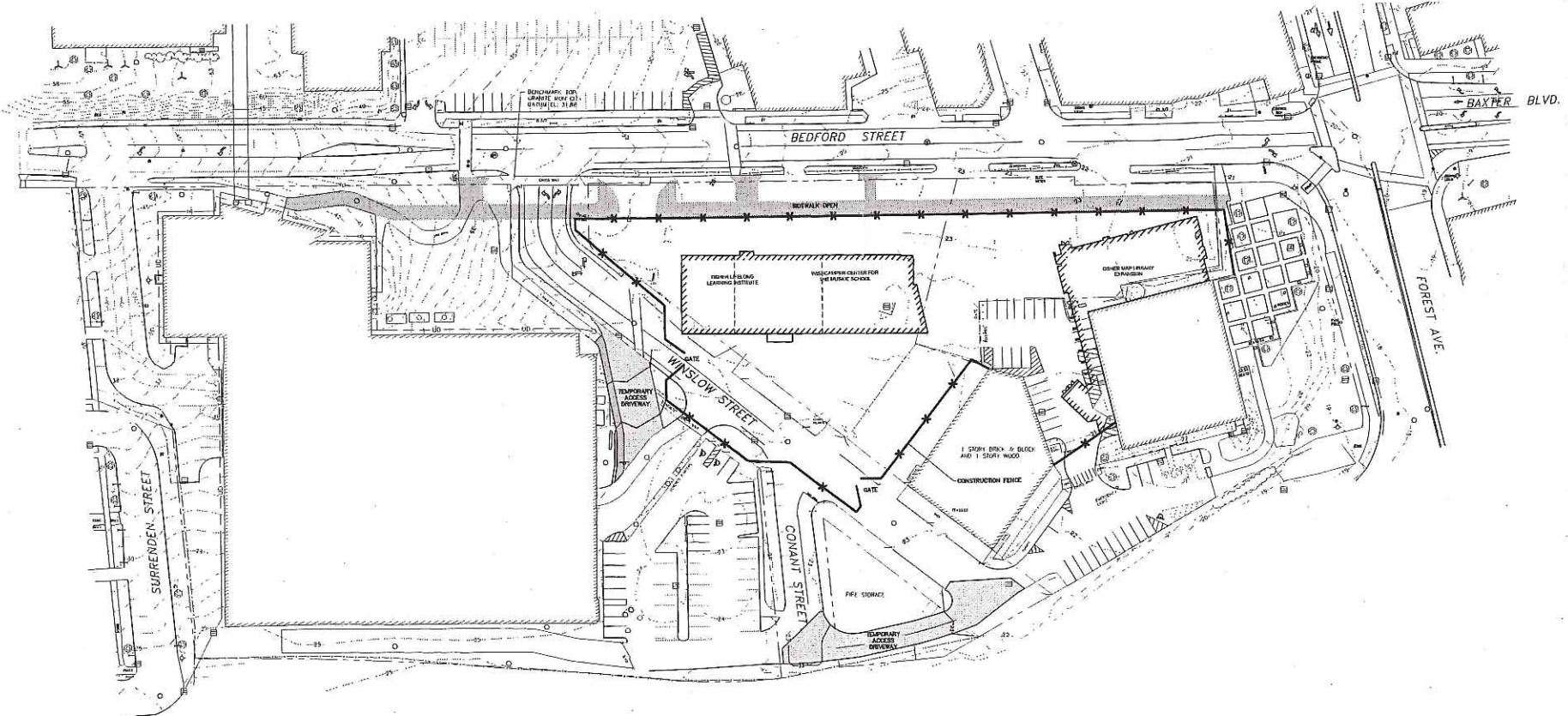
Issues

Drawing Number  
**C102**

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CONSTRUCTION SEQUENCE PLAN 07/30/07-11/01/07



CONSTRUCTION SEQUENCE PLAN 11/01/07-03/01/08



**Portland Campus**  
University of Southern Maine

Architect  
**Koetter | Kim  
& Associates Inc.**

356 Boylston Street  
Boston, MA 02116  
T: (617) 556-8550  
F: (617) 556-1217

Consultants

- Civil Engineer:**  
Woodard & Curran  
41 Hutchins Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6635
- Lighting:**  
Staden Fainstein Int. Lighting Inc.  
73 Heronway Street  
Boston, MA 02115  
T: (617) 267-9500  
F: (617) 267-2045
- Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 696-2550  
F: (617) 696-2340
- Specification:**  
Collective Wisdom Corporation  
75 Bay State Road  
Woburn, MA 02453  
T: (781) 641-7732  
F: (781) 647-5297
- Structural Engineer:**  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010
- Traffic:**  
Gerrill-Palmer Inc.  
15 Shaker Road  
Grosvenor, ME 04039  
T: (207) 657-6910  
F: (207) 657-6912
- MEP:**  
Harriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017
- Geotech:**  
Halley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2517  
T: (207) 482-4559  
F: (207) 482-4559

Issue

Revisions	
Number	Description
1	2/12/2007 PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project  
**University Commons**  
University of Southern Maine

Drawing Title  
**CONSTRUCTION STAGING PLAN**

0 50' 100' Approval  
1" = 50' @ FULL SIZE

KKA Project Number 0510.000	
Drawn By BICM	
Checked By DAS/RSS	
Date February 12, 2007	
Issue	

Drawing Number  
**C103**

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Portland Campus  
University of Southern Maine

Architect

Koetter | Kim  
& Associates Inc.

356 Baytown Street  
Boston, MA 02115  
T: (617) 256-6800  
F: (617) 336-1217

Consultants

**Civil Engineer:**  
Woodard & Curran  
41 Hutchins Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6835

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 898-2950  
F: (617) 898-2340

**Structural Engineer:**  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02159  
T: (617) 574-0000  
F: (617) 574-0010

**MEP:**  
Herriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

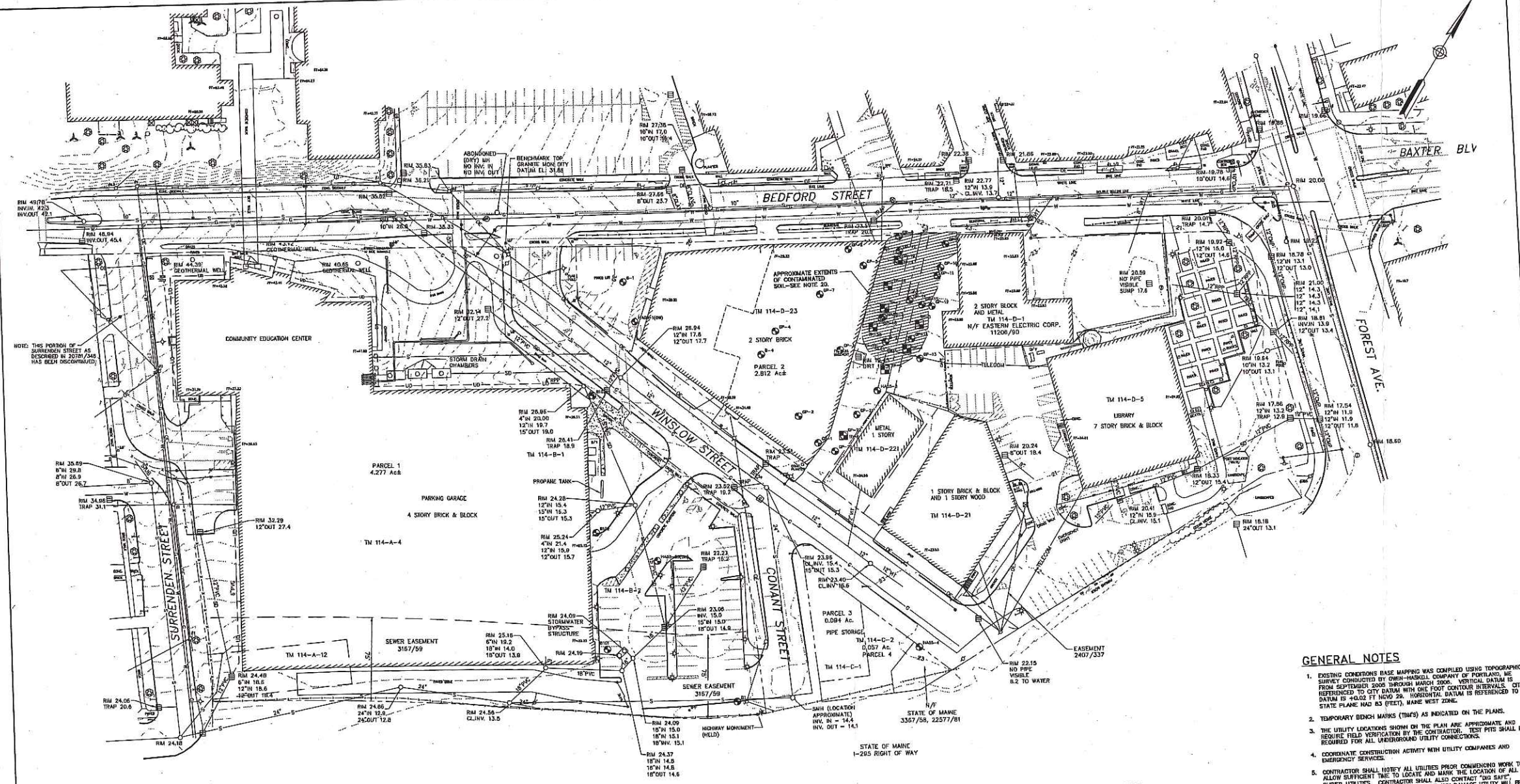
Issue

Table with 2 columns: Revisions, Permitting Documents - Not for Construction. Revision 1 dated 2/12/2007.

Project: University Commons  
University of Southern Maine

Drawing Title: EXISTING SITE PLAN

Drawing Information block including scale (1" = 40' @ FULL SIZE), HKA Project Number (0510.000), Drawn by (JBC/BCM), Checked by (DAS/BSS), Date (February 12, 2007), Issue, and Drawing Number (C100). Includes a professional seal for the drafter.



NOTE: THIS PORTION OF SURVEY STREET AS DESCRIBED IN 20374/343 HAS BEEN DISCONTINUED.

GENERAL NOTES

- EXISTING CONDITIONS BASE MAP/SURVEY WAS COMPILED USING TOPOGRAPHIC SURVEY CONDUCTED BY OREN-HASKELL COMPANY OF PORTLAND, ME FROM SEPTEMBER 2000 THROUGH MARCH 2006. VERTICAL DATUM IS REFERENCED TO CITY DATUM WITH ONE FOOT CONTOUR INTERVALS. CITY DATUM IS 40.00 FT ABOVE SEA LEVEL. HORIZONTAL DATUM IS REFERENCED TO STATE PLANE NAD 83 (FEET), NAD 83 WEST ZONE.
- TEMPORARY BENCH MARKS (TBM'S) AS INDICATED ON THE PLANS.
- THE UTILITY LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION BY THE CONTRACTOR. TEST PITS SHALL BE REQUIRED FOR ALL UNDERGROUND UTILITY CONNECTIONS.
- COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES AND EMERGENCY SERVICES.
- CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR COMMENCING WORK TO ALLOW SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF ALL BURIED UTILITIES. CONTRACTOR SHALL ALSO CONTACT "DIG SAFE" TELEPHONE 888-244-7233. REPAIR OF ANY DAMAGE UTILITY WILL BE REQUIRED.
- TAKE ALL NECESSARY PRECAUTIONS TO PREVENT EQUIPMENT FLUIDS FROM REACHING THE MUNICIPAL COMBINED SEWER SYSTEM. ANY RELEASE SHALL BE REPORTED AND REMEDIATED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- PROPERLY PROTECT AND DO NOT DISTURB PROPERTY BOUNDS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT WILL BE RESET AT THE CONTRACTOR'S EXPENSE, BY A PROFESSIONAL LAND SURVEYOR.
- ALL AREAS, WHETHER LAWN, GRAVEL, BRICK, BITUMINOUS, OR OTHER AREAS ADJACENT TO THE WORK AREAS, DAMAGED BY THE CONTRACTOR'S EQUIPMENT OR THE CONTRACTOR AT HIS OWN EXPENSE.
- EXISTING FENCES, LIGHT POLES, WALKS, POLES, AND OTHER ITEMS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND REPLACED OR PROTECTED DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR SITEWORK IN ADVANCE OF CONSTRUCTION TO INCLUDE, BUT NOT LIMITED TO: CITY OF PORTLAND ROAD OPENING PERMIT, MDOT HIGHWAY OPENING PERMIT, AND MDOT (UTILITY) LOCATION PERMIT.
- PAVEMENT MARKINGS AND ROAD SIGNAGE TO BE PROVIDED SHALL COMPLY WITH THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAYS AND BRIDGES (LATEST EDITION), AND THE US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) MILENNIUM EDITION (LATEST REVISION).
- ALL WORK ASSOCIATED WITH THE PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 18-A AND 18-C OF CHAPTER 24-SEVEN OF THE CITY OF PORTLAND CODE OF ORDINANCES.
- ALL SEWER CONSTRUCTION IN THE PUBLIC WAY SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF PORTLAND CODE OF ORDINANCES.
- THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "AS-BUILT" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO BOTH THE SANITARY AND STORM SEWER SYSTEM WITHIN THE PROJECT LIMITS BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT.
- THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "AS-BUILT" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO BOTH THE SANITARY AND STORM SEWER SYSTEM WITHIN THE PROJECT LIMITS BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT.
- IN ACCORDANCE WITH SPECIFICATION, CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO MINIMIZE EROSION FROM THE PROJECT AND BOTH ON AND OFF THE SITE.
- PROVIDE AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES (BMP's).
- COORDINATE ALL UTILITY (GAS, WATER, ELECTRICAL, SANITARY SEWER, ROOF DRAINS, AND TELEPHONE) SERVICE CONNECTION LOCATIONS TO THE NEW BUILDINGS WITH THEIR RESPECTIVE DISCIPLINE SPECIFIC PLANS.
- CONTRACTOR SHALL COMPLETE TEST PITS AT ALL PROPOSED CONNECTIONS TO EXISTING UTILITIES.
- SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS IS KNOWN TO EXIST IN THE APPROXIMATE AREA AS IDENTIFIED ON PLAN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SOURCE INFORMATION FOR TEST PIT AND BORING LOGS IS FURTHER INDENTIFIED WITHIN SPECIFICATIONS.

SURVEY GENERAL NOTES:

- OWNER OF RECORD, BY TAX MAP/BLOCK/LOT IS AS FOLLOWS. ALL DEED REFERENCES ARE FROM THE CLAMBUCK COUNTY REGISTER OF DEEDS (C.R.D.):
  - 114-A-4, UNIVERSITY OF MAINE SYSTEM, 08/06/187.
  - 114-A-12, UNIVERSITY OF MAINE SYSTEM, 2078/344.
  - 114-B-1, UNIVERSITY OF SOUTHERN MAINE, 2078/079.
  - 114-B-2, UNIVERSITY OF MAINE.
  - 114-C-1, UNIVERSITY OF SOUTHERN MAINE FOUNDATION, 2257/079.
  - 114-C-2, UNIVERSITY OF SOUTHERN MAINE FOUNDATION, 2257/079.
  - 114-D-1, UNIVERSITY OF SOUTHERN MAINE FOUNDATION, 2257/079.
  - 114-D-2, UNIVERSITY OF SOUTHERN MAINE FOUNDATION, 2257/079.
  - 114-D-3, UNIVERSITY OF SOUTHERN MAINE, 2257/079.
- BEARINGS ARE BASED ON CITY OF PORTLAND DATUM.
- SUBJECT PROPERTY IS SHOWN AS LOTS 4 AND 12, BLOCK A, LOTS 1 AND 2, BLOCK B, LOTS 1 AND 2, BLOCK C, AND LOTS 8 AND 1-23 BLOCK D ON THE CITY OF PORTLAND'S ASSESSOR'S MAP NUMBER 114.
- IN ADDITION TO THE ABOVE "OWNER OF RECORD" REFERENCES, THE FOLLOWING ARE AMONG THE DEEDS EXAMINED, ALL AT THE C.R.D.: 304/370, 3046/043, 3047/772, 3051/111, 3051/188, 3052/817, 3053/418, 3055/712, 3056/805, 3064/594, 3081/323, 3087/877, 3167/92, 3043/710.

PLAN REFERENCES:

- "STANDARD BOUNDARY AND TOPOGRAPHIC SURVEY, UNIVERSITY OF SOUTHERN MAINE COMMUNITY EDUCATION FACILITY AND PARKING GARAGE" DATED FEBRUARY 19, 2002 BY DEBT ASSOCIATES, INC.
- "STANDARD BOUNDARY AND TOPOGRAPHIC SURVEY, JOHNSON SUPPLY SITE, UNIVERSITY OF SOUTHERN MAINE" DATED JULY 26, 1990 BY DEBT ASSOCIATES.
- "EXISTING CONDITIONS PLAN ON GRAND STREET, PORTLAND, MAINE MADE FOR DELUCA-HOFFMAN ASSOC., INC." DATED MAY 23, 2001 BY OREN HASKELL, INC.
- "PLAN OF LAND IN PORTLAND, MAINE FOR FREDRICK J. OLSEN" DATED MAY 15, 1979 BY OREN HASKELL, INC.
- "PLAN DATED JANUARY 1988 BY OFFICE OF E.C. JORDAN & CO., CIVIL ENGINEERS" SHOWING THE BOUNDARY BOUND BY BEDFORD AND WINSLOW STREETS AND AN "ABANDONED RAILROAD LOCATION".
- "PLAN MADE FOR FOREST CITY MOTOR CO." DATED JUNE 4, 1924 BY E. C. JORDAN & CO.
- CITY STREET ROLLS BY H. L. & E. C. JORDAN.
- MAINE STATE HIGHWAY COMMISSION RIGHT OF WAY MAP, STATE HIGHWAY "285", FEDERAL ROAD PROJECT NO. 1-295-3 (25), (29) AND (30) SHEETS 57, 58 AND 61 OF 73 DATED DECEMBER AND JANUARY 1967.
- "BLUE SHEETS" OBTAINED FROM THE CITY OF PORTLAND'S ENGINEERING DEPARTMENT.
- CITY OF PORTLAND'S ASSESSOR'S MAPS.

UTILITY NOTES:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND DISTINGUISHED FROM THE UNDERGROUND UTILITIES SHOWN AS ABANDONED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-826-4761 AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and Unit/Note. Includes symbols for various materials and conditions like AND ABOVE GROUND, BORING, BENCHMARK, CATCH BASIN, etc.

SYMBOLS

Table with 3 columns: Symbol, Description, and Notes. Includes symbols for Sanitary Sewer Manhole, Storm Drain Manhole, Catch Basin, etc.

LINE TYPES

Table with 3 columns: Existing Line Type, Description, and Existing Line Type. Includes line types for Contour (1' Interval), Sanitary Sewer, Storm Drain, etc.



**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

358 Boylston Street  
Boston, MA 02116  
T: (617) 536-6560  
F: (617) 536-1217

Consultants

**Civil Engineer:**  
Woodard & Curran  
41 Hedges Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6535

**Lighting:**  
Sladen Fainstein Int. Lighting Inc.  
73 Hennebury Street  
Boston, MA 02115  
T: (617) 267-9500  
F: (617) 267-2045

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 686-2500  
F: (617) 686-2340

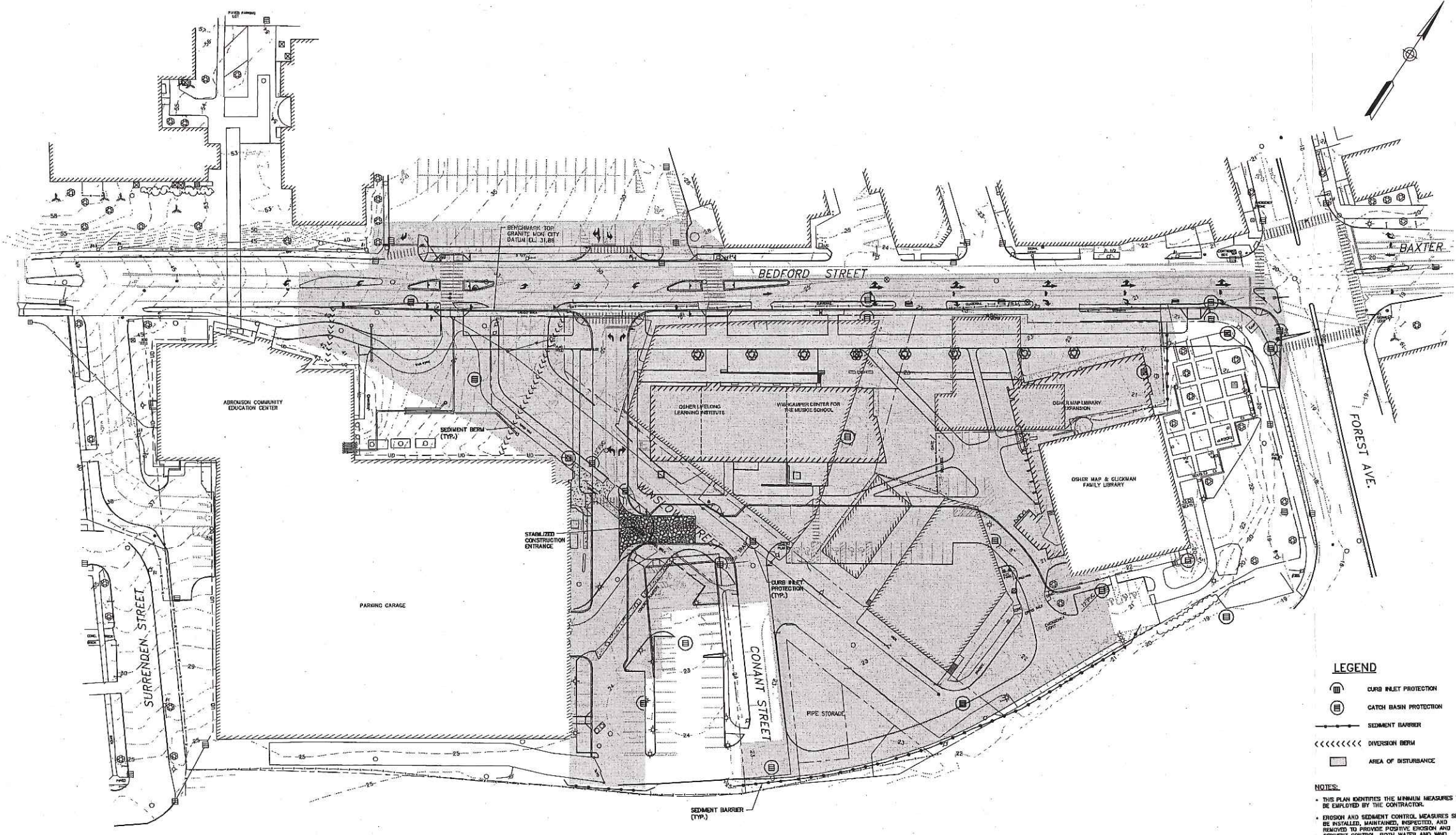
**Specification:**  
Collective Wisdom Corporation  
75 Bay State Road  
Watson, MA 02469  
T: (781) 847-7752  
F: (781) 847-5297

**Structural Engineer:**  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02130  
T: (617) 374-0000  
F: (617) 374-0010

**Traffic:**  
Gorfil-Pelmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 857-6910  
F: (207) 857-6912

**MEP:**  
Harriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

**Geotech:**  
Halay & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2817  
T: (207) 482-4659  
F: (207) 482-4659



**LEGEND**

- CURB INLET PROTECTION
- CATCH BASIN PROTECTION
- SEDIMENT BARRIER
- DIVERSION BERM
- AREA OF DISTURBANCE

**NOTES:**

- THIS PLAN IDENTIFIES THE MINIMUM MEASURES TO BE EMPLOYED BY THE CONTRACTOR.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, MAINTAINED, INSPECTED, AND REMOVED TO PROVIDE POSITIVE EROSION AND SEDIMENT CONTROL, BOTH WATER AND WIND INDUCED, AT THE CONSTRUCTION SITE.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE, OR STOCKPIILING OF MATERIALS, AT THE SITE.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REGULARLY INSPECTED AND MAINTAINED. INSPECTIONS SHALL BE MADE WEEKLY, AND PRIOR TO AND FOLLOWING STORM EVENTS. WALK AROUND INSPECTIONS SHALL BE MADE DAILY. REPAIRS SHALL BE MADE IN A TIMELY MANNER. A LOG OF INSPECTIONS AND CORRECTIVE ACTIONS TAKEN SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF THREE YEARS.
- SCHEDULING OF WORK AT THE SITE SHALL MINIMIZE THE AREA OF SOIL EXPOSED TO WIND AND WATER EROSION TO THE GREATEST EXTENT POSSIBLE.
- LOCATE MATERIAL STOCKPILES WITH CONSIDERATION FOR STORMWATER DRAINAGE PATTERNS.
- THE UP-SLOPE DIVERSION MEASURES MAY BE RELOCATED AS DEVELOPMENT OF THE SITE PROGRESSES.
- CONSTRUCTION ENTRANCES MAY BE RELOCATED AS DEVELOPMENT OF THE SITE PROGRESSES. ENTRANCE LOCATIONS SHOWN ARE SUGGESTED. THE CONTRACTOR MAY PROPOSE ALTERNATE LOCATIONS FOR APPROVAL. WASH PITS WITH APPROPRIATE FILTRATION OF DISCHARGE WATER MAY ALSO BE APPROVED FOR USE.
- REGULAR SWEEPING AND OTHER HOUSEKEEPING ACTIVITIES MUST BE EMPLOYED AT THE SITE ALONG WITH REGULAR INSPECTION AND MAINTENANCE OF THE INSTALLED EROSION AND SEDIMENT CONTROL MEASURES.
- DEBRIS CONTROL SHALL BE EMPLOYED TO MINIMIZE DEPOSITION OF LITTER, CONSTRUCTION AD EQUIPMENT OILS, AND CHEMICALS AND PETROLEUM PRODUCTS TO STORMWATER.
- RUNOFF THAT ACCUMULATES IN THE EXCAVATED AREAS OF THE SITE SHALL BE FILTERED THROUGH A DIRTTRAP, OR EQUAL, SEDIMENT REMOVAL SYSTEM, OR HOPE PLASTIC BARRIER/FILTER FENCE ENCLOSURE. SUCH METHOD SHALL BE DESIGNED BASED ON THE MANUFACTURER'S DESIGN WATER FLOW RATE OF THE FILTER FABRIC, AND THE EXPECTED PUMPING RATE FROM THE EXCAVATION. FILTERED WATER SHALL DISCHARGE TO A STABILIZED SURFACE DOWNSLOPE FROM ANY DISTURBED AREAS.
- WATER AND/OR CALCIUM CHLORIDE SHALL BE USED TO CONTROL DUST.
- PETROLEUM PRODUCTS AND CHEMICALS SHALL BE APPROPRIATELY USED AND STORED TO PREVENT SPILLS AND ENTRANCE INTO THE STORMWATER COLLECTION SYSTEM.
- NON-STORMWATER DISCHARGES SHALL NOT BE DIRECTED TO THE STORMWATER COLLECTION SYSTEM.

**Issue**

Revision	Date	Description
1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

**Project**

**University Commons**  
University of Southern Maine

**Drawing Title**

**EROSION AND  
SEDIMENT CONTROL PLAN**

Scale: 1" = 40' @ FULL SIZE

KKA Project Number: 0510.000

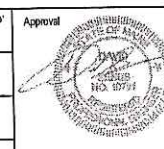
Drawn By: JDE/BCM

Checked By: DAS/BSS

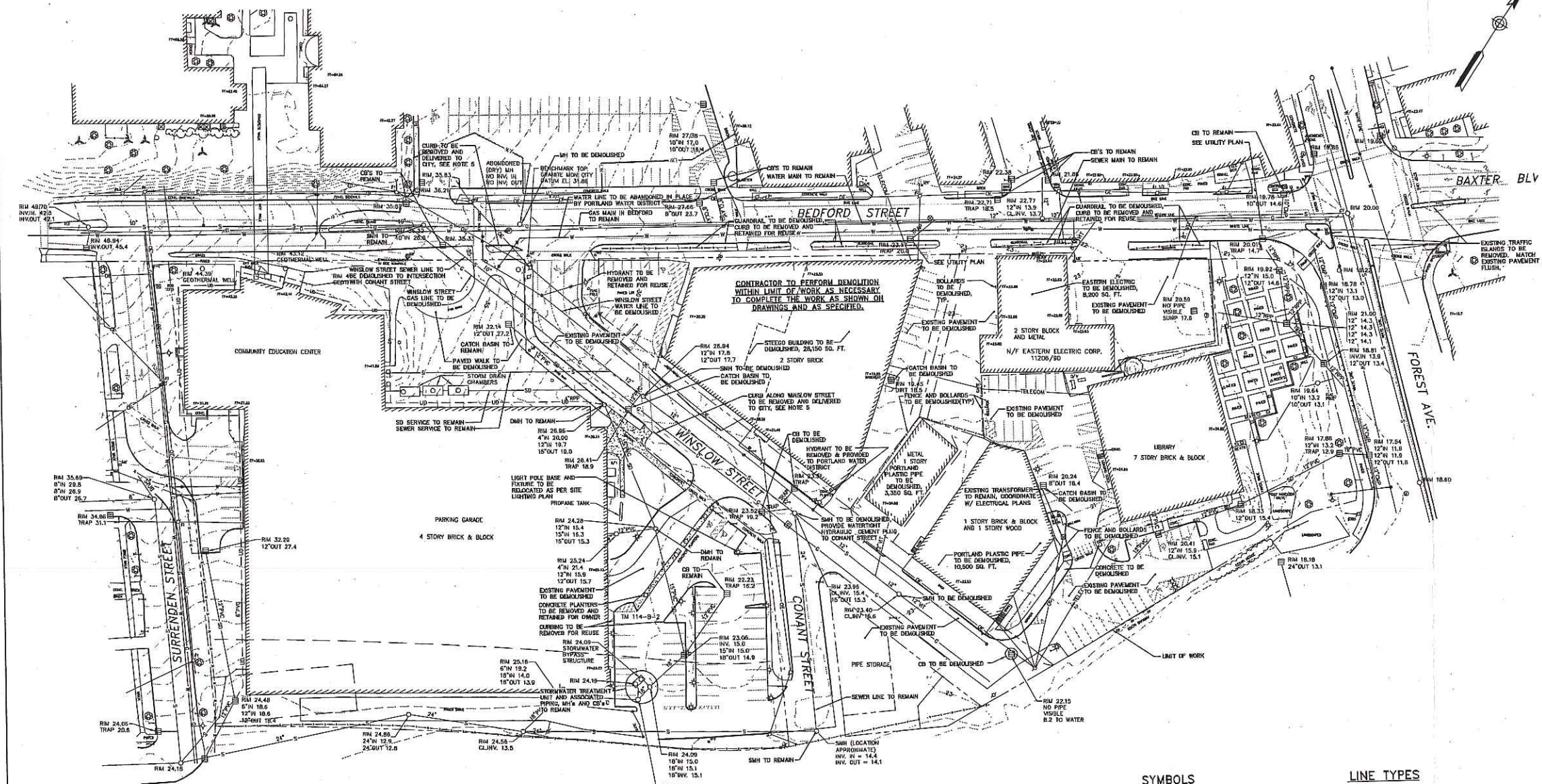
Date: February 12, 2007

Issue

Drawing Number: **C101**



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**Architect**  
**Koetter | Kim & Associates Inc.**  
 356 Bayberry Street  
 Boston, MA 02116  
 T: (617) 595-6560  
 F: (617) 538-1217

**Consultants**

<b>Civil Engineer:</b> Woodard & Curran 41 Hutchins Drive Portland, ME 04102 T: (207) 774-2112 F: (207) 774-6535	<b>Lighting:</b> Staden Feinstadt Int. Lighting Inc. 73 Hemeway Street Boston, MA 02115 T: (617) 267-0650 F: (617) 267-2045
<b>Landscape Architect:</b> Carol R. Johnson Associates 115 Broad Street Boston, MA 02110 T: (617) 866-2350 F: (617) 866-2340	<b>Specification:</b> Collective Wisdom Corporation 75 Bay State Road Woburn, MA 02468 T: (781) 647-7732 F: (781) 647-5297
<b>Structural Engineer:</b> Weidinger 201 Broadway 4th Floor Cambridge, MA 02139 T: (617) 374-1000 F: (617) 374-0010	<b>Trails:</b> Gornik-Palmer Inc. 15 Spraker Road Gray, ME 04206 T: (207) 657-6910 F: (207) 657-6912
<b>MEP:</b> Hartman Associates One Auburn Business Park Auburn, ME 04210 T: (207) 784-5100 F: (207) 782-3017	<b>Geotech:</b> Halsey & Aldrich, Inc. 75 Washington Avenue, Suite 203 Portland, ME 04104-2817 T: (207) 784-5100 F: (207) 462-4669

Issue

Revision	Date	Description
1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

**Project**  
**University Commons**  
 University of Southern Maine

**Drawing Title**  
**DEMOLITION PLAN**

Scale: 1" = 40' @ FULL SIZE

**Approval**  
 [Signature/Stamp]

K/A Project Number: 0510.000

Drawn By: JBC/BCM

Checked By: DAS/BSS

Date: February 12, 2007

Issue

Drawing Number: **C200**

**NOTES**

1. THE TERM "DEMOLITION" IMPLIES THE REMOVAL AND PROPER DISPOSAL OF ASSOCIATED ITEM. OWNER HAS RIGHT TO RETAIN ANY ITEM CALLED OUT FOR "DEMOLITION" PRIOR TO ITS DISPOSAL.
2. ADDITIONAL STRUCTURES TO BE DEMOLISHED INCLUDING, BUT NOT LIMITED TO: CONCRETE SLABS, BLOCK CONTAINMENT WALLS, FENCES, SIGNS, ELECTRICAL POLES AND VEGETATION EXIST ON SITE YET MAY NOT BE DISPLAYED OR CALLED OUT ON PLANS.
3. BUILDING FOUNDATION DEMOLITION INCLUDES, BUT IS NOT LIMITED TO: DEMOLISHING AND DISPOSING OF BUILDING SUPERSTRUCTURE, UTILITIES (CONTRACTOR TO CAP), BASE SLAG, FOOTINGS, FOUNDATION WALLS, PILE CAPS, GRADE BEAMS AND ANY ADDITIONAL ITEMS ASSOCIATED WITH THE BUILDING OR CONTAINED WITHIN THE BUILDING. BUILDING SQUARE FOOTAGE CALLED OUT ON PLAN ARE FOOTPRINT AREAS. THESE AREAS ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY.
4. FOR DEMOLITION OF ELECTRICAL AND COMMUNICATION INFRASTRUCTURE, SEE ELECTRICAL DEMOLITION PLANS.
5. GRANITE CURBING AND SIGNS REMOVED AND NOT RESET (WITHIN CITY R.O.W.) IS PROPERTY OF THE CITY OF PORTLAND. ALL GRANITE CURBING, SIGNS AND JERSEY BARRIERS REMOVED FROM THE PUBLIC RIGHT OF WAY SHALL BE DELIVERED TO THE PUBLIC WORKS MATERIAL STOCK YARD ON OUTER CONGRESS STREET.
6. FOR DEMOLITION OF ALL EXISTING TREES AND VEGETATION WITHIN WORK LIMITS SEE LANDSCAPING PLANS.
7. TO THE EXTENT PRACTICAL FOR CLARITY PURPOSES AND WITH EXCEPTIONS INDICATED, THESE ITEMS SCHEDULED TO REMAIN HAVE BEEN IDENTIFIED. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY TO COMPLETE THE PROJECT AS PROPOSED, AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
8. EXISTING CB AND MH FRAMES, GRATES, AND COVERS MAY BE RETAINED BY OWNER OR REUSED AS ALLOWED BY ENGINEER OR CITY.
9. DEMOLITION WITHIN BEDFORD STREET AND FOREST AVENUE INTERSECTION SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO BEDFORD STREET DESIGN PLANS FOR EXTENT OF DEMOLITION WITHIN R.O.W.

**SYMBOLS**

DESCRIPTION	EXISTING
SANITARY SEWER MANHOLE	○
SANITARY SEWER SERVICE CLEANOUT	○
STORM DRAIN MANHOLE	○
CATCH BASIN	□
PARKING METER POST	○
TELECOMM MANHOLE	○
TELECOMM SERVICE BOX	○
ELECTRIC MANHOLE	○
TRANSFORMER	□
UTILITY POLE W/UY	⊕
UTILITY POLE	⊕
LIGHTPOLE	⊕
GAS METER BOX	○
GAS VENT	○
GAS GATE	○
WATER GATE	○
CURB STOP	○
HYDRANT	⊕
WATER WELL	⊕
WATER METER BOX	○
SIGN	⊕
MALIBOX	⊕
METAL HATCHING	⊕
CENTURION TREE	⊕
DECADEOUS TREE	⊕
STONE CHECK DAM	⊕
SURVEY STATION	⊕
TEMPORARY BENCH MARK	⊕
IRON PIN	⊕
MONUMENTS	⊕
SPOT ELEVATION	⊕
TEST PIT # NUMBER	⊕
BORING # NUMBER	⊕

**LINE TYPES**

DESCRIPTION	EXISTING
CONTOUR (1' INTERVAL)	---
CONTOUR (INDEX)	---
SANITARY SEWER	-S-
FORCE MAIN	-FM-
STORM DRAIN	-SD-
UNDERDRAIN	-UD-
WATER MAIN	-W-
UNDERGROUND ELECTRIC	-E-
UNDERGROUND TELEPHONE	-T-
UNDERGROUND TELEVISION	-TV-
GAS LINE	-G-
OVERHEAD ELECTRIC	-OC-
ABANDONED SEWER	-AS-
ABANDONED WATER MAIN	-AW-
CULVERT	-C-
HOUSE SERVICE / LATERAL	-H-
PROPERTY LINE	---
RIGHT OF WAY	---
EASEMENT	---
EDGE OF VEGETATION	---
FENCE	---
CENTERLINE	---
RETAINING WALL	---
STONEWALL	---
CURB	---
EDGE OF PAVEMENT	---
EDGE OF GRAVEL	---
QUADRANT	---
DRAINAGE DITCH / SWALE	---
PROJECT WORK LIMIT	---



**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

355 Boylston Street  
Boston, MA 02116

T: (617) 536-8560  
F: (617) 536-1217

Consultants

**Civil Engineer:**  
Woodard & Curran  
41 Hinchey Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6635

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Ocean Street  
Boston, MA 02110  
T: (617) 866-2590  
F: (617) 866-2340

**Structural Engineer:**  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

**MEP:**  
Hartman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

**Lighting:**  
Sizem Fainstein Int'l Lighting Inc.  
73 Hemenway Street  
Boston, MA 02115  
T: (617) 267-9500  
F: (617) 267-2045

**Specification:**  
Collective Wisdom Corporation  
75 Bay State Road  
Woburn, MA 02493  
T: (781) 647-7732  
F: (781) 647-5297

**Traffic:**  
Gorin-Palmer Inc.  
15 Shaker Road  
Concord, ME 04039  
T: (603) 557-6910  
F: (603) 574-0010

**Geotech:**  
Halley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2617  
T: (207) 784-5100  
F: (207) 482-4909

Issue

Revisions	DATE	DESCRIPTION
1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project  
**University Commons**  
University of Southern Maine

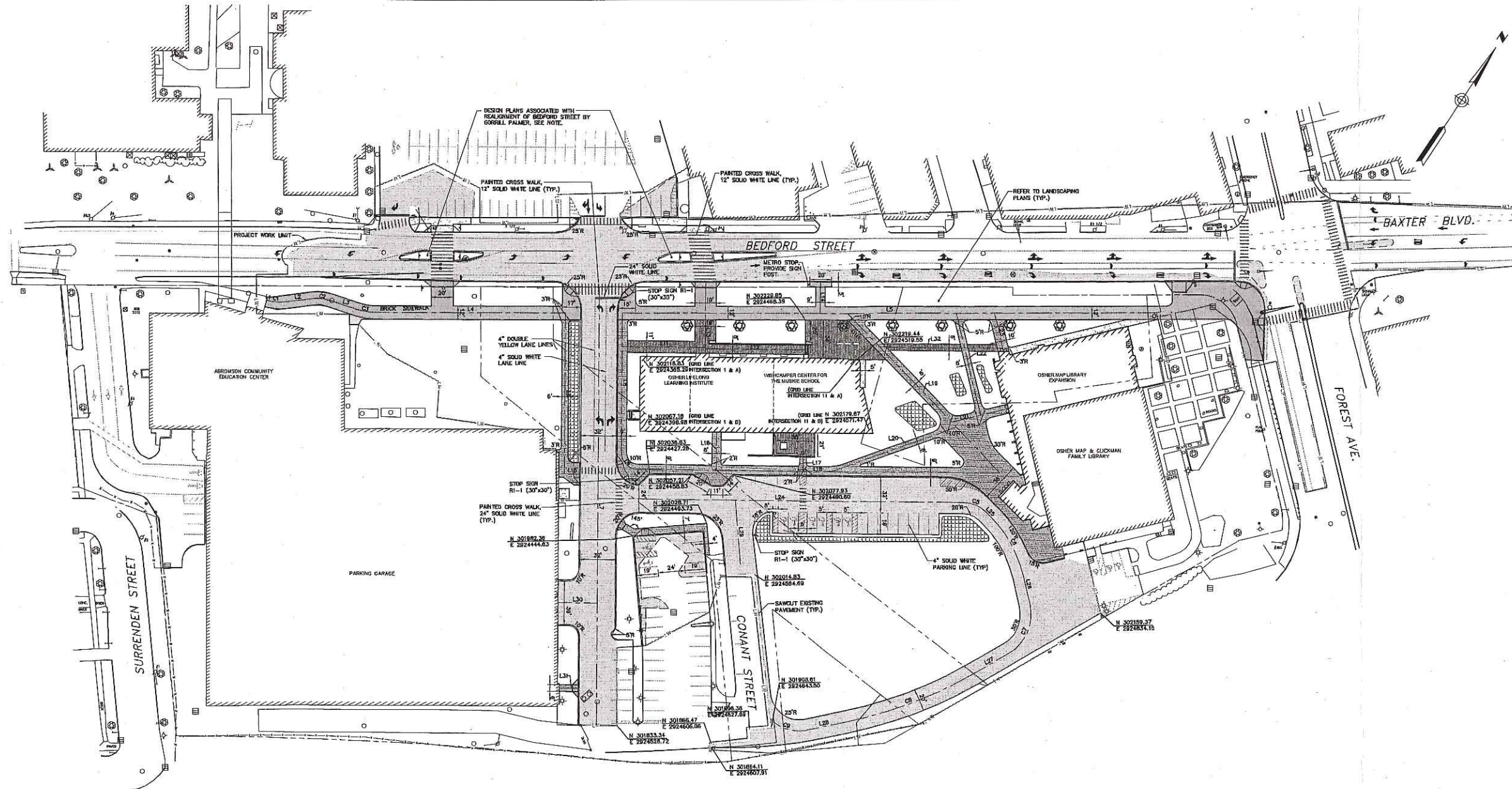
Drawing Title  
**LAYOUT PLAN**

Drawing Title  
Approval  
1" = 40' @ FULL SIZE

KG&A Project Number  
0510.000

Drawn By  
JBC/BCM  
Checked By  
DAS/BSS  
Date  
February 12, 2007  
Issue

Drawing Number  
**C201**



**CENTERLINE ROADWAY & SIDEWALK CURVE DATA**

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C1	17.30'	44.00'	8.81'	22°36'20"
C2	20.67'	46.00'	10.91'	25°44'22"
C3	14.67'	46.00'	7.40'	18°16'28"
C4	22.78'	14.50'	14.50'	90°00'00"
C5	22.60'	30.00'	12.01'	43°32'55"
C6	62.54'	110.00'	32.14'	32°34'34"
C7	30.49'	49.00'	30.01'	37°45'28"
C8	100.29'	1300.00'	65.40'	17°33'33"
C9	34.49'	35.00'	18.79'	58°27'35"

**CENTERLINE ROADWAY & SIDEWALK LINE DATA**

LINE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
L1	0.88'	N71°22'53"E	301873.92	292455.23	301974.18	292456.04
L2	21.38'	N48°49'13"E	301982.79	292457.02	301987.00	292408.26
L3	24.33'	N1°33'40"E	302005.72	292455.30	302013.17	292432.98
L4	172.00'	S58°17'14"W	302114.71	292428.52	302015.25	292441.95
L5	483.64'	N98°12'14"E	302143.00	292437.45	302411.46	292429.76
L6	143.49'	N33°06'37"W	30184.53	292436.40	302114.71	292426.02
L7	391.34'	N33°06'37"W	301823.37	292451.43	302151.16	292429.67
L8	124.64'	N33°06'37"W	302038.62	292439.53	302143.02	292432.45
L9	74.96'	N33°06'37"W	302114.71	292443.15	302158.76	292446.23
L10	60.85'	S58°17'14"W	302207.54	292443.00	302157.86	292440.62
L11	63.64'	N33°11'17"W	302154.99	292446.69	302208.16	292437.92
L12	28.87'	N33°06'37"W	302143.00	292447.58	302151.16	292446.92
L13	14.50'	S58°50'44"W	302002.46	292437.54	301894.93	292435.40
L14	14.04'	N33°06'37"W	302073.09	292447.93	302101.60	292446.33
L15	13.84'	N33°06'37"E	302127.05	292453.79	302165.12	292450.92
L16	326.38'	S58°17'14"W	302212.97	292468.99	302034.40	292441.60
L17	186.55'	N77°39'09"W	302212.97	292468.99	302256.38	292449.33
L18	116.54'	S58°17'14"W	302213.17	292454.07	302130.43	292456.25
L19	52.92'	N43°06'50"E	302226.58	292457.99	302265.21	292464.15
L20	83.66'	S48°33'02"E	302310.09	292457.84	302246.08	292464.22
L21	34.95'	N48°33'02"W	302308.09	292461.85	302129.34	292460.68
L22	338.04'	S58°17'14"W	302172.27	292475.53	301993.08	292440.76
L23	5.78'	N72°28'45"W	302175.59	292470.08	302176.84	292469.40
L24	15.23'	N48°34'10"W	302137.35	292476.08	302147.76	292476.15
L25	39.82'	N0°01'18"E	302048.17	292476.74	302083.51	292478.84
L26	36.28'	N45°07'17"E	301924.15	292470.94	301849.74	292463.74
L27	37.44'	N48°10'47"W	302051.17	292473.19	302060.39	292459.87
L28	15.50'	N52°32'58"E	301895.44	292442.05	301914.83	292445.79
L29	17.71'	S58°17'14"W	301842.20	292448.05	301832.52	292445.22
L30	110.71'	S58°17'14"W	302307.33	292463.19	302247.13	292453.67

PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

NOTE:  
BEDFORD STREET AND FOREST AVENUE INTERSECTION SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO BEDFORD STREET DESIGN PLANS FOR GRADING, ALIGNMENT, PAVEMENT STRAINS AND SIGNAGE DESIGN.

0:\200704\Center Kim - USM - University Commons\USM\0510.000-2007.dwg, File Date: 02/12/2007, 2:28pm



**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

358 Baylston Street  
Boston, MA 02115  
T: (617) 538-8550  
F: (617) 538-1217

Consultants

Civil Engineer:  
Woodard & Curran  
41 Hutchins Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6835

Lighting:  
Steden Fainstein Int. Lighting Inc.  
73 Hemenway Street  
Boston, MA 02115  
T: (617) 267-6500  
F: (617) 267-2045

Landscape Architect:  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 556-2590  
F: (617) 556-2340

Specification:  
Collective Wisdom Corporation  
75 Bay State Road  
Wenham, MA 01939  
T: (617) 647-7322  
F: (617) 647-5297

Structural Engineer:  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

Traffic:  
Gerrill-Palmer Inc.  
15 Shaker Road  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

MEP:  
Herriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

Geotech:  
Haley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2017  
T: (207) 482-4039  
F: (207) 482-4559

Notes

Revisions

Revision	Date	Description
1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project

**University Commons**  
University of Southern Maine

Drawing Title

**UTILITY PLAN**

Scale

1" = 40' @ FULL SIZE

Approval

KKA Project Number

0510.000

Drawn By

BCM

Checked By

DAB/BSS

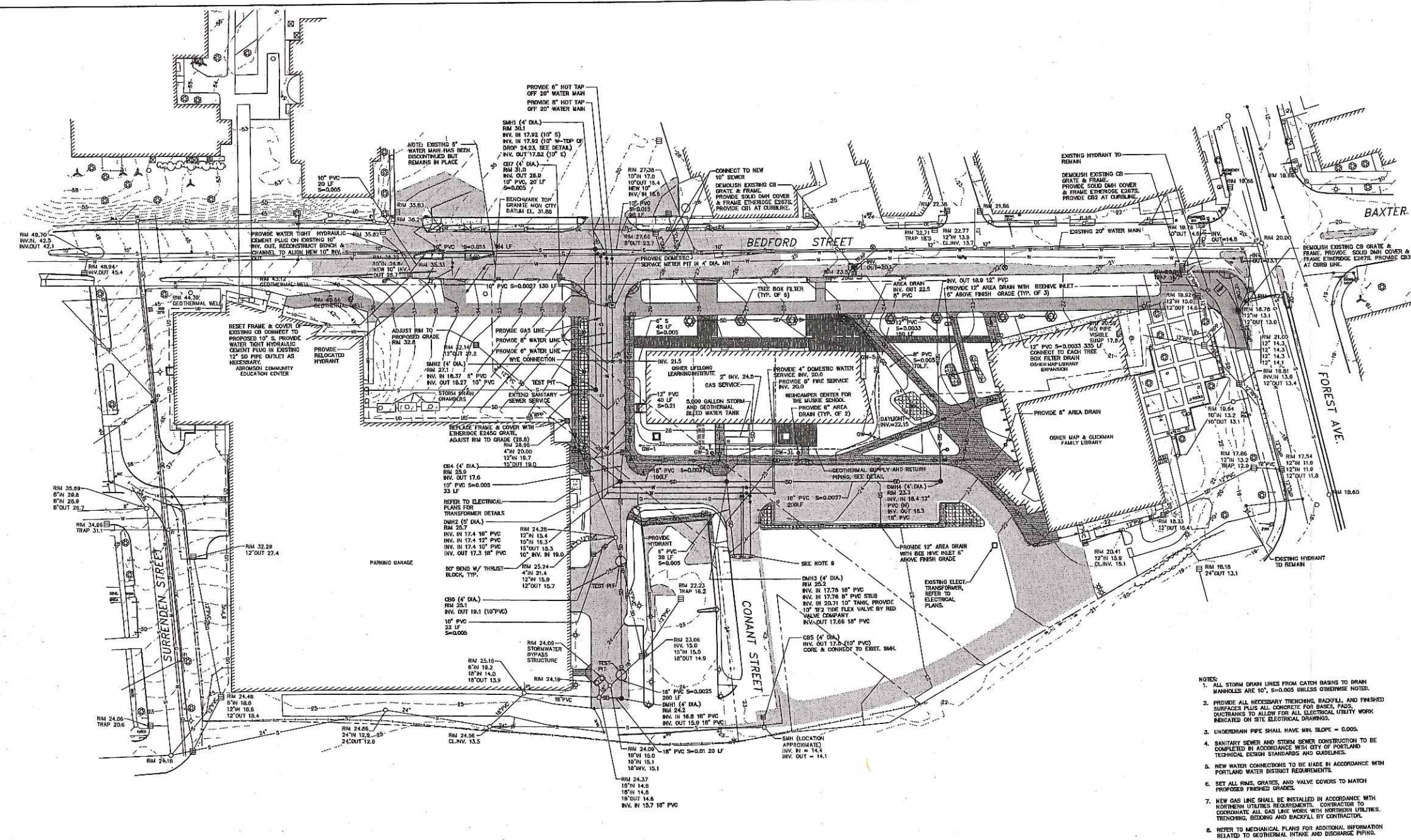
Date

February 12, 2007

Issue

Drawing Number

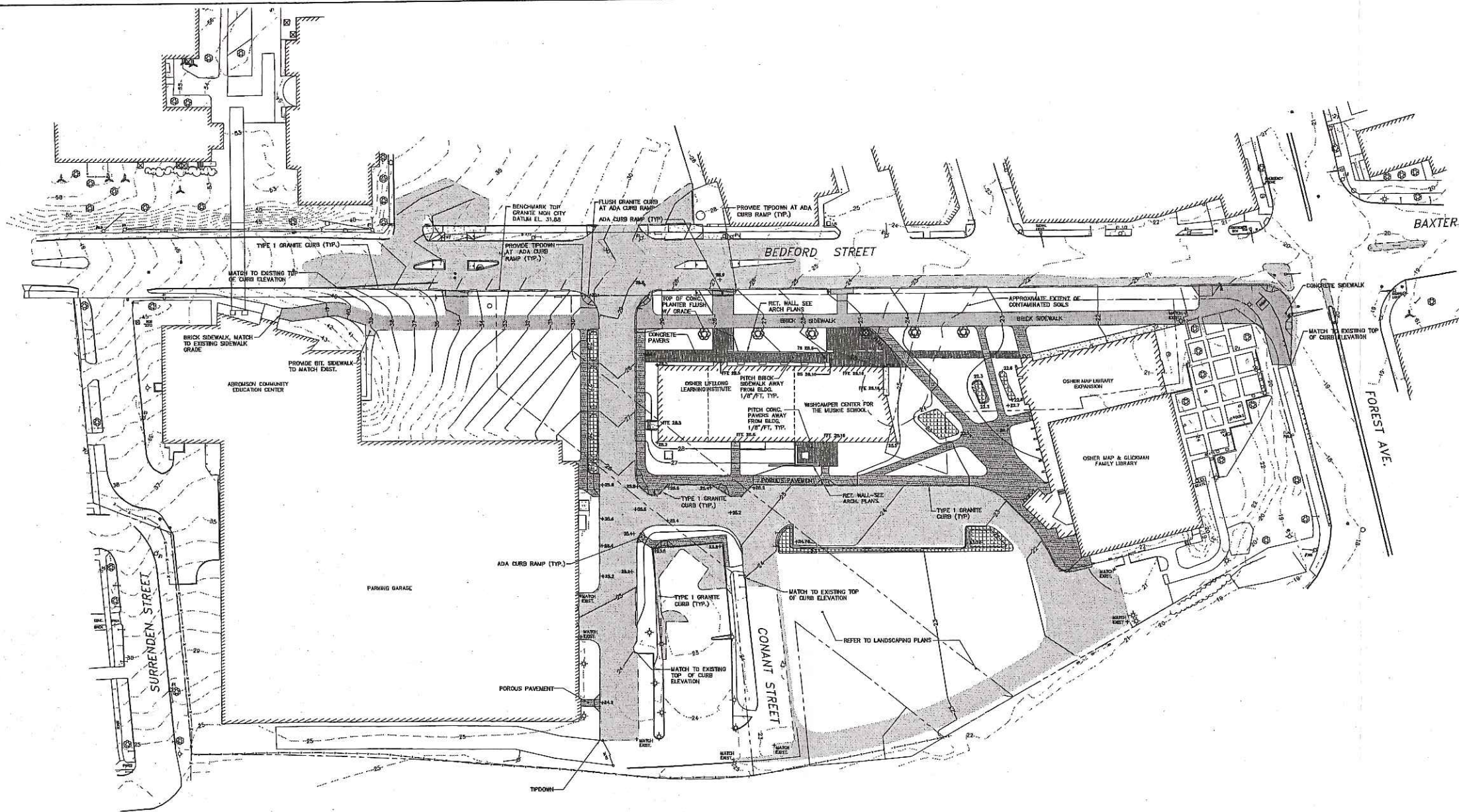
**C202**



- NOTES:
1. ALL STORM DRAIN LINES FROM CATCH BASINS TO DRAIN MANHOLES ARE 18" W/CAP AND 0.005 UNLESS OTHERWISE NOTED.
  2. PROVIDE ALL NECESSARY TRENCHING, BACKFILL, AND FINISHED SURFACES PLUS ALL CONCRETE FOR BASES, PADS, DUCTBANKS TO ALLOW FOR ALL ELECTRICAL UTILITY WORK INDICATED ON SITE ELECTRICAL DRAWINGS.
  3. UNDERGROUND PIPE SHALL HAVE MIN. SLOPE = 0.005.
  4. SANITARY SEWER AND STORM SEWER CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH CITY OF PORTLAND TECHNICAL DESIGN STANDARDS AND CODES.
  5. NEW WATER CONNECTIONS TO BE MADE IN ACCORDANCE WITH PORTLAND WATER DISTRICT REQUIREMENTS.
  6. SET ALL RIMS, GRATES, AND VALVE COVERS TO MATCH PROPOSED FINISHED GRADES.
  7. NEW GAS LINES SHALL BE INSTALLED IN ACCORDANCE WITH PORTLAND UTILITIES REQUIREMENTS. CONTRACTOR TO COORDINATE ALL GAS LINE WORK WITH PORTLAND UTILITIES. TRENCHING, BEDDING AND BACKFILL BY CONTRACTOR.
  8. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION RELATED TO GEOTHERMAL INTAKE AND DISCHARGE PIPING.
  9. UTILITIES FOR FUTURE BLDG:
    - STORM DRAIN, 6" PVC W/CAP, S=0.005, 60 LF
    - FIRE SERVICE, 6" W/CAP AND BLOW-OFF VALVE, 63 LF
    - DOMESTIC WATER, 6" W/CAP AND BLOW-OFF VALVE, 66 LF
    - GAS, AS SIZED BY PORTLAND UTILITIES, 63 LF
- PROVIDE 2x4 STAKE AT EACH UTILITY CUT OFF AT ROADWAY SUBGRADE ELEVATION WITH 100 HAZ DUBB IN END/TOP

STRUCTURE	NORTHING	EASTING
CS1	302277.73	2924480.64
CS2	302445.53	2924749.36
CS3	302470.62	2924805.30
CS4	302502.21	2924393.91
CS5	301925.49	2924835.53
CS6	301934.85	2924422.02
CS7	302139.12	2924253.11
DMH1	301837.40	2924518.01
DMH2	302025.33	2924408.57
DMH3	302060.21	2924496.89
DMH4	302188.72	2924512.26
SMH1	302172.13	2924718.66
SMH2	302053.58	2924341.67

0:\USM\60 Koetter | Kim - USM - University Commons\USM\0510\0510-C202.dwg, PLOT DATE: 2/12/2007 - 8:28am



Architect  
**Koetter | Kim & Associates Inc.**  
 330 Boylston Street  
 Boston, MA 02116  
 T: (617) 535-8550  
 F: (617) 535-1217

- Consultants
- |  |  |
|--|--|
| <b>Civil Engineer:</b><br>Woodard & Curran<br>41 Hilditch Drive<br>Portland, ME 04102<br>T: (207) 774-2112<br>F: (207) 774-6635              | <b>Lighting:</b><br>Suzann Feinstein Int. Lighting Inc.<br>73 Hemenway Street<br>Boston, MA 02115<br>T: (617) 257-5500<br>F: (617) 257-2045      |
| <b>Landscape Architect:</b><br>Carol R. Johnson Associates<br>115 Canal Street<br>Boston, MA 02110<br>T: (617) 895-2590<br>F: (617) 895-2340 | <b>Specification:</b><br>Collective Wisdom Corporation<br>75 Bay State Road<br>Watson, MA 02493<br>T: (781) 847-7732<br>F: (781) 847-6287        |
| <b>Structural Engineer:</b><br>Wellinger<br>201 Broadway 4th Floor<br>Cambridge, MA 02139<br>T: (617) 374-0000<br>F: (617) 374-0010          | <b>Traffic:</b><br>Gentili-Palmer Inc.<br>15 Shaker Road<br>Gay, ME 04039<br>T: (207) 657-4910<br>F: (207) 657-4912                              |
| <b>MEP:</b><br>Harriman Associates<br>One Auburn Business Park<br>Auburn, ME 04210<br>T: (207) 794-5100<br>F: (207) 782-3017                 | <b>Geotech:</b><br>Haley & Aldrich, Inc.<br>75 Washington Avenue, Suite 203<br>Portland, ME 04101-2617<br>T: (207) 492-4909<br>F: (207) 492-4939 |

Issue

Revision	Date	Description
1	2 / 12 / 2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project  
**University Commons**  
 University of Southern Maine

Drawing Title  
**GRADING PLAN**

Scale: 1" = 40' @ FULL SIZE

Approval: [Stamp]

RVA Project Number: 0510.000

Drawn By: BCM

Checked By: DAS/BSS

Date: February 12, 2007

Issue

Drawing Number  
**C203**

NOTE:  
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**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

356 Bayston Street  
Boston, MA 02115  
T: (617) 536-8560  
F: (617) 536-1217

Consultants

**Civil Engineer:**  
Woodard & Curran  
41 Hubble Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6535

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 866-2500  
F: (617) 866-2340

**Structural Engineer:**  
Weinberger  
201 Elmwood 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

**MEP:**  
Hartman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

**Lighting:**  
Steden Fainstein Int. Lighting Inc.  
73 Hernebury Street  
Boston, MA 02115  
T: (617) 267-0500  
F: (617) 267-2045

**Specification:**  
Collective Wisdom Corporation  
75 Bay State Road  
Watson, MA 02493  
T: (617) 847-7332  
F: (617) 847-5257

**Tracik:**  
Gentil-Palmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 557-6910  
F: (207) 557-6912

**Contract:**  
Halcy & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2517  
T: (207) 482-4669  
F: (207) 482-4669

Issue

Revisions

1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION
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Project

**University Commons**  
University of Southern Maine

Drawing Title

**CIVIL DETAILS - 1**

Approval

KK&A Project Number  
6510.000  
Drawn By  
JBC/BCM  
Checked By  
DAB/BSS  
Date  
February 12, 2007

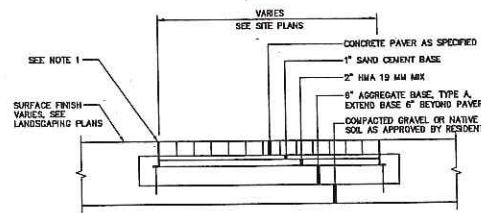
Issue

Drawing Number

**C300**

**ADA ACCESSIBLE CURB RAMP GENERAL NOTES**

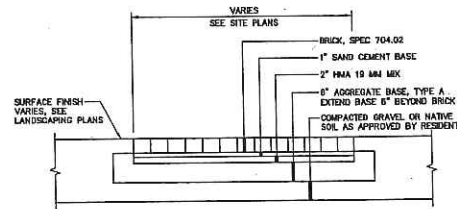
- WHEN THE SIDEWALK IS LESS THAN 5'-0" IN WIDTH, A MINIMUM PAD 5'-0" TO 10'-0" SLOPING NO MORE THAN 1/4" PER FOOT SHALL BE PROVIDED WHENEVER A CHANGE IN DIRECTION MUST BE MADE.
- THERE SHALL BE A MINIMUM OF 12" AGGREGATE SUBBASE COURSE - GRAVEL UNDER THE 2" PAVEMENT ON PEDESTRIAN RAMPS.
- CURB OPENINGS FOR PEDESTRIAN RAMPS SHALL BE 6" MINIMUM.



NOTE:

- EDGE PER SPECIFICATIONS.
- AGGREGATE TYPES PER MDT SECTION 304.02
- PAVER PATTERN AS PER LANDSCAPING PLANS
- SAND CEMENT BASE PER SPECIFICATIONS.

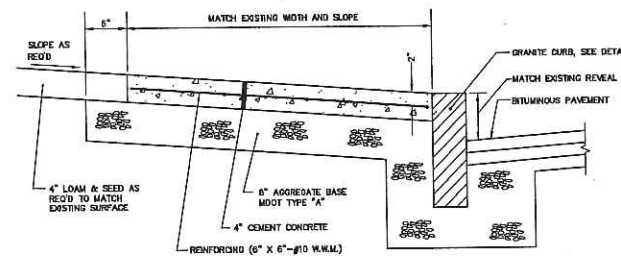
**CONCRETE PAVER SIDEWALK DETAIL**  
N.T.S.



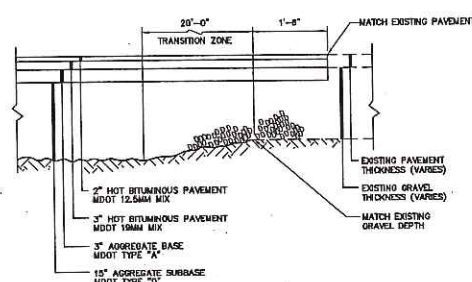
NOTE:

- BORDER COURSE OF BRICK SHALL BE MORTARED TO CONCRETE BASE
- AGGREGATE TYPES PER MDT SECTION 304.02
- BRICK PATTERN AND SAND-CEMENT BASE AS PER CITY OF PORTLAND TECHNICAL AND DESIGN STANDARDS AND GUIDELINES

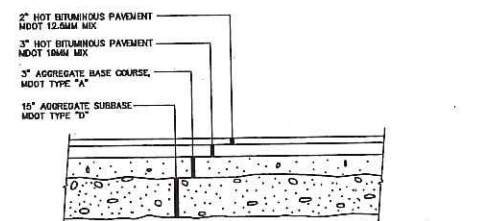
**BRICK SIDEWALK DETAIL**  
N.T.S.



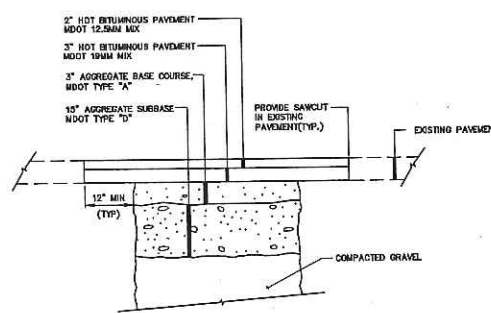
**CONCRETE SIDEWALK DETAIL**  
N.T.S.



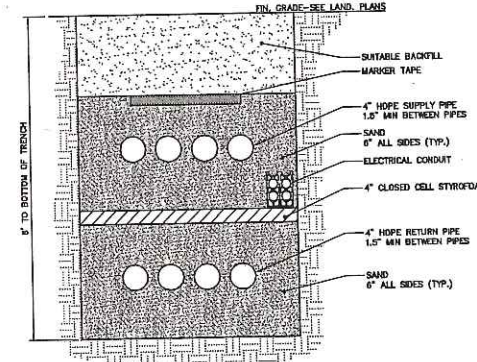
**PAVEMENT BUTT JOINT DETAIL**  
N.T.S.



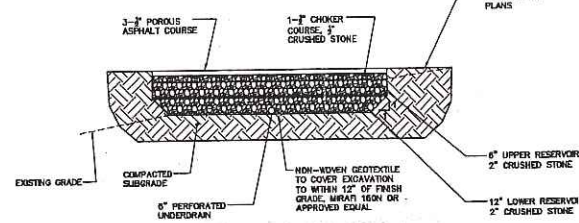
**TYPICAL BITUMINOUS PAVEMENT SECTION**  
N.T.S.



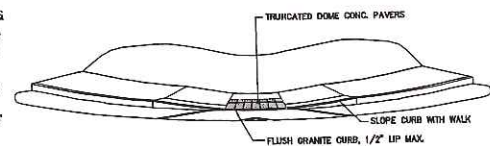
**TRENCH REPAIR**  
N.T.S.



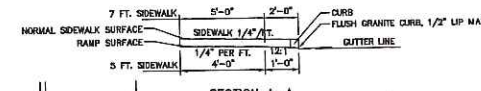
**GEOOTHERMAL WELL PIPING TRENCH**  
N.T.S.



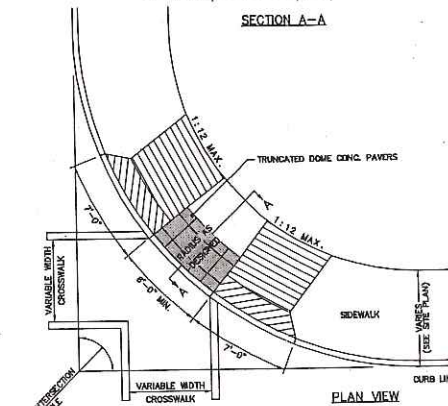
**POROUS ASPHALT PAVEMENT DETAIL**  
N.T.S.



PERSPECTIVE VIEW



SECTION A-A

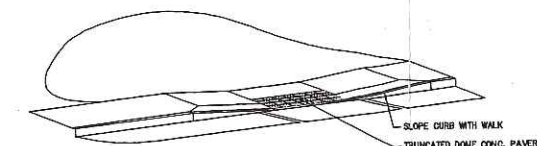


**RADIUS CURB**

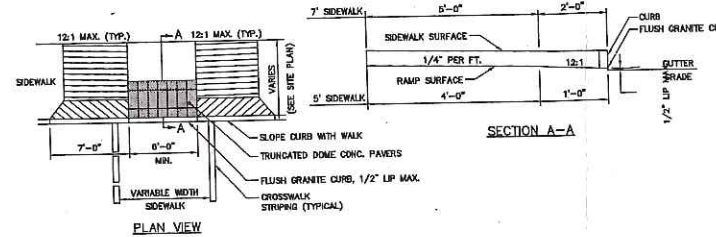
NOTE:

- CURB OPENINGS FOR PEDESTRIAN RAMPS SHALL BE 6" MINIMUM.
- CURB RAMPS SHALL BE BRICK, SPEC. 704.02; SEE BRICK SIDEWALK DETAIL.
- RADIUS CURB.
- NO VEHICULAR ACCESS SHALL BE PERMITTED THROUGH THE RADIUS CURB.
- TRUNCATED DOME PAVES BRICKS USED IN SIDEWALK RAMPS SHALL BE THE 2-1/2" x 4" x 8" ADA PAVES BRICK, COLOR (G50) (DUNED) MANUFACTURED BY WHITCO-ORIS OF ALLIANCE, G50 OR APPROVED EQUAL.
- TRUNCATED DOME PAVES BRICK NOT REQUIRED ON CROSSWALKS WITH RECLAIMED ASPHALT SURFACE.

**CURB RAMP**  
N.T.S.



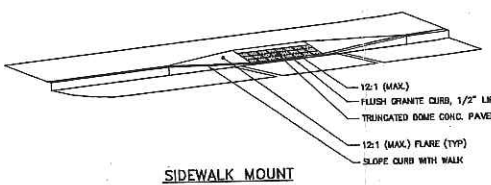
PERSPECTIVE VIEW



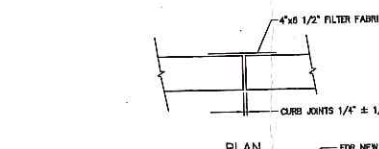
SECTION A-A

PLAN VIEW

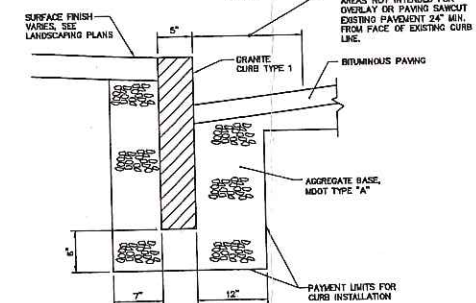
WALK THROUGH



**SIDEWALK MOUNT**

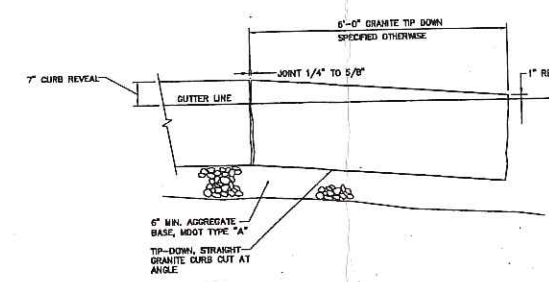


PLAN



SECTION

**GRANITE CURB INSTALLATION**  
N.T.S.



**GRANITE TIP-DOWN CURB**  
N.T.S.





**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

356 Bayston Street  
Boston, MA 02115  
T: (617) 535-5500  
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T: (617) 866-2590  
F: (617) 866-2340

Specification:  
Collective Wisdom Corporation  
75 Bay State Road  
Woburn, MA 02493  
T: (781) 647-7322  
F: (781) 647-8287

Structural Engineer:  
Weislinger  
201 Bowdoin Way 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

Traffic:  
Gornik-Palmer Inc.  
15 Shaver Road  
Gray, ME 04039  
T: (207) 657-6910  
F: (207) 657-6912

MEP:  
Harriman Associates  
One Adams Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

Geotech:  
Haley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2517  
T: (207) 482-4609  
F: (207) 482-4659

Issue

Revisions

1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

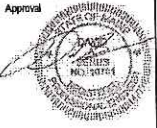
Project

**University Commons**  
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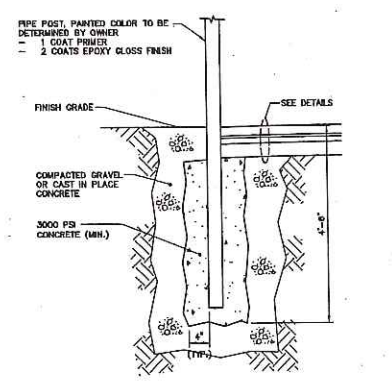
Drawing Title

**CIVIL DETAILS - 2**

K&A Project Number  
0510.000  
Drawn By  
JBC/BCM  
Checked By  
DAS/BSS  
Date  
February 12, 2007  
Issue

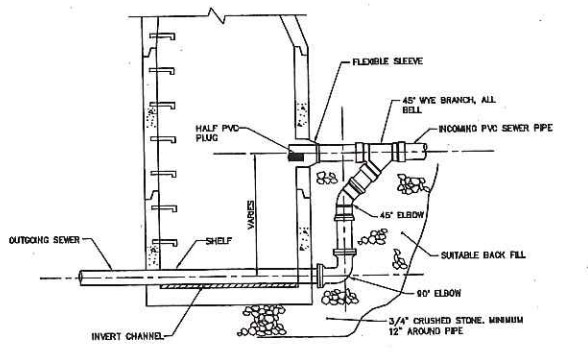


Drawing Number  
**C301**



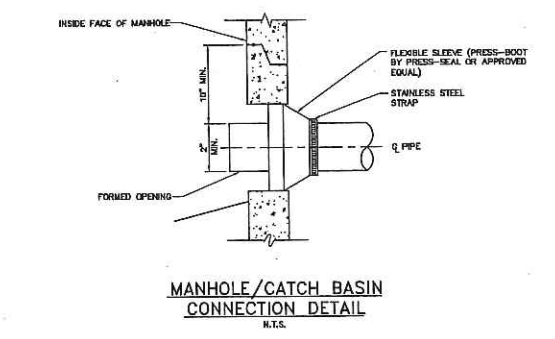
POST SPECIFICATION			
TYPE	HEIGHT ABOVE FIN. GRADE	POST DIAMETER	POST MATERIAL
STREET SIGNAGE	7'-0"	2 3/8" (I.D.)	GALV. STEEL

TYPICAL POST DETAIL  
N.T.S.

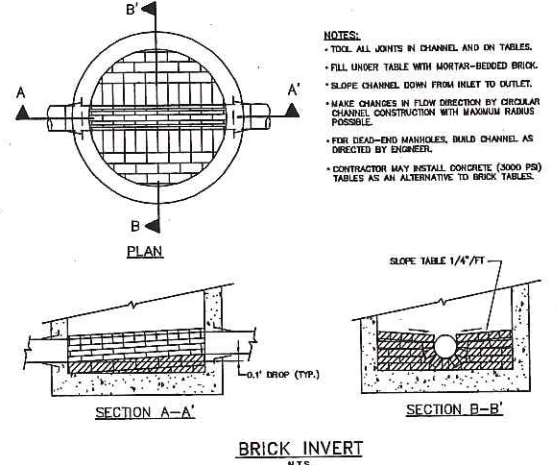


OUTSIDE DROP MANHOLE  
N.T.S.

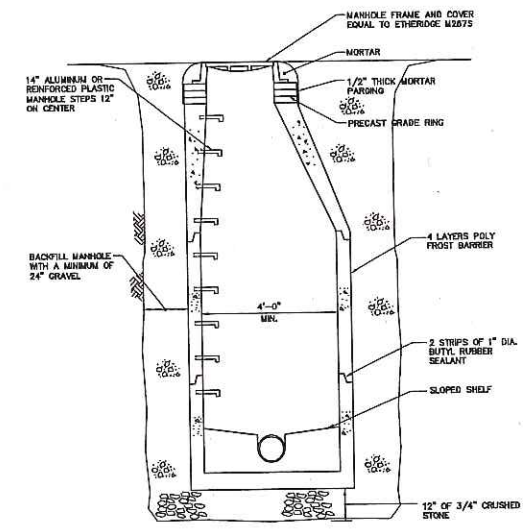
- CITY OF PORTLAND MANHOLE AND CATCH BASIN GENERAL NOTES
- ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE STRENGTH OF 4,000 PSI. PER SEC. RICH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
  - PRECAST REINFORCED CONCRETE MANHOLE MANUFACTURE PER ASTM SPEC. C-478-07.
  - SEWER BRICK TO CONFORM TO ASTM SPECIFICATION DESIGNATION C-32-63, GRADE MA AND SA.
  - ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTION OF BRICK MASONRY, THE SMOOTH MORTAR SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FRESH 1" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY CITY OF PORTLAND DESIGN STANDARDS.
  - CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTIC PAINT WHICH SHALL BE SMOOTH AND TIGHT BUT NOT BRITTLE.
  - MANHOLES MAY BE CONSTRUCTED OF BRICK MASONRY, PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
  - ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY STATION AND OFFSET. PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
  - STORM AND SEWER MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED HOLE.
  - EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND REPAIR THE PROPERTY OF THE CITY OF PORTLAND.



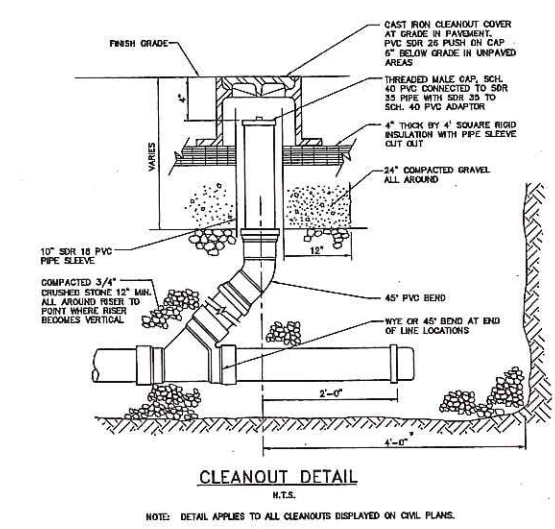
MANHOLE/CATCH BASIN CONNECTION DETAIL  
N.T.S.



BRICK INVERT  
N.T.S.

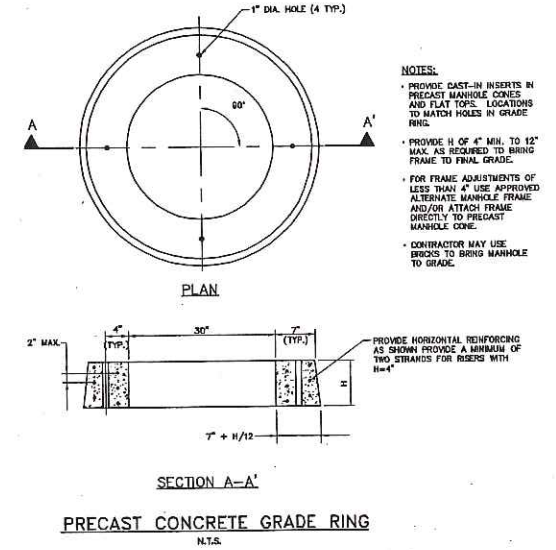


PRECAST MANHOLE  
N.T.S.

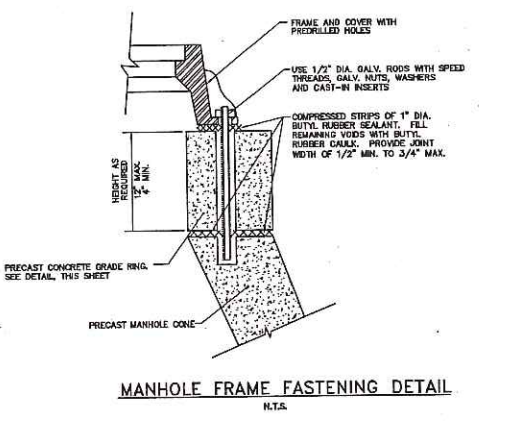


CLEANOUT DETAIL  
N.T.S.

NOTE: DETAIL APPLIES TO ALL CLEANOUTS DISPLAYED ON CIVIL PLANS.



PRECAST CONCRETE GRADE RING  
N.T.S.



MANHOLE FRAME FASTENING DETAIL  
N.T.S.

05100000 Koetter Kim - USM University Commons 1st Dropoff Location & Removal of Existing Manholes & Sewer Lines at USM - 2/12/07 - 8/24/07



**Portland Campus**  
University of Southern Maine

ARCHITECT

**Koetter | Kim & Associates Inc.**

336 Bayston Street  
Boston, MA 02115  
T: (617) 535-6550  
F: (617) 535-1217

CONSULTANTS

**Civil Engineer:**  
Woodward & Curran  
41 Hurdline Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6535

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 686-2500  
F: (617) 686-2340

**Structural Engineer:**  
Waldinger  
201 Bimchway 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

**MEP:**  
Harrison Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

**Lighting:**  
Slacko Paine/Inet. Lighting Inc.  
73 Heronway Street  
Boston, MA 02115  
T: (617) 267-9500  
F: (617) 267-2045

**Specification:**  
Collective Wisdom Corporation  
75 Bay State Road  
Watson, MA 02463  
T: (617) 647-7732  
F: (617) 647-5227

**Traffic:**  
Gorill-Palmer Inc.  
15 Shaker Road  
Gorham, ME 04039  
T: (207) 657-8910  
F: (207) 657-4912

**Geotech:**  
Haley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2817  
T: (207) 492-4608  
F: (207) 492-4609

Issue

Revisions

1 2/12/2007 PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project

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University of Southern Maine

Drawing Title

**CIVIL DETAILS - 3**

RCA Project Number

0510.000

Drawn By

JBC/BCM

Checked By

DAS/BSS

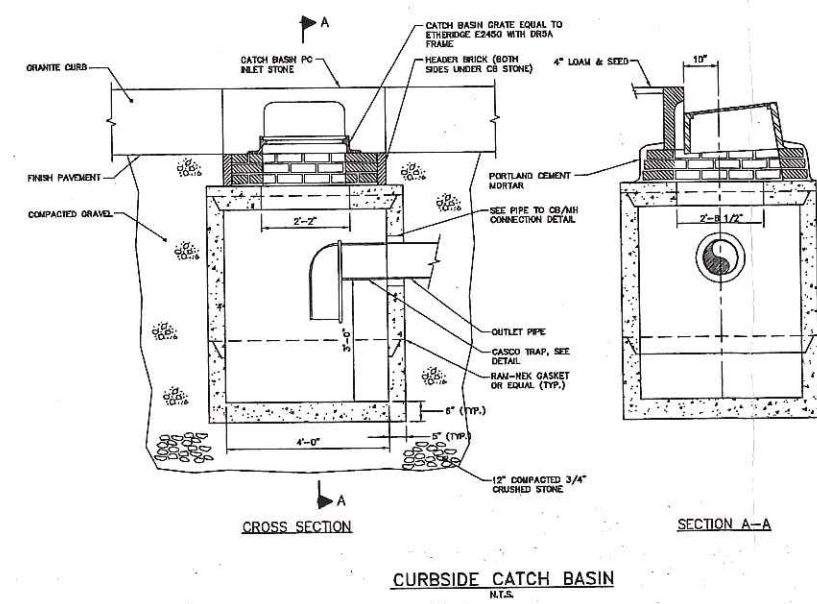
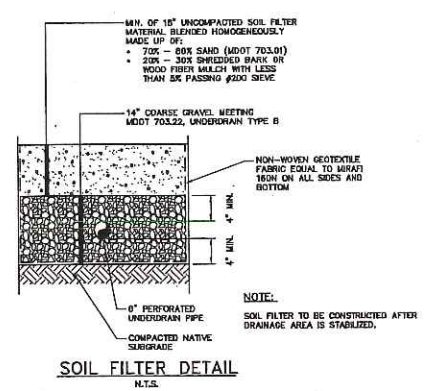
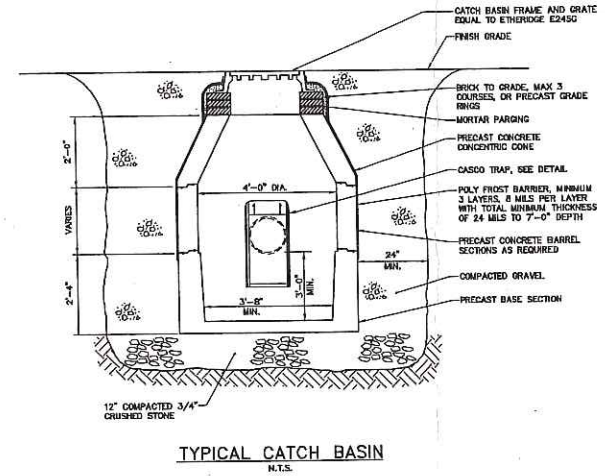
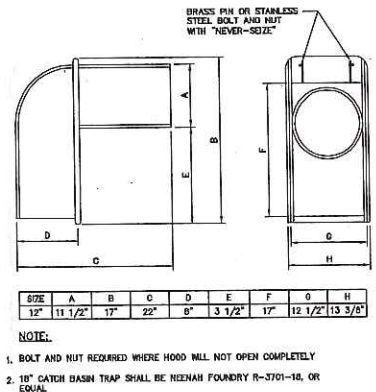
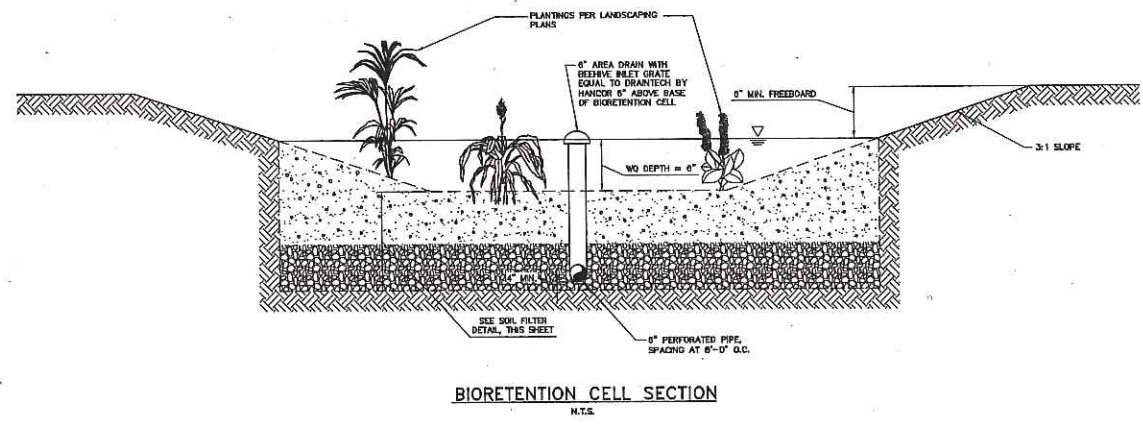
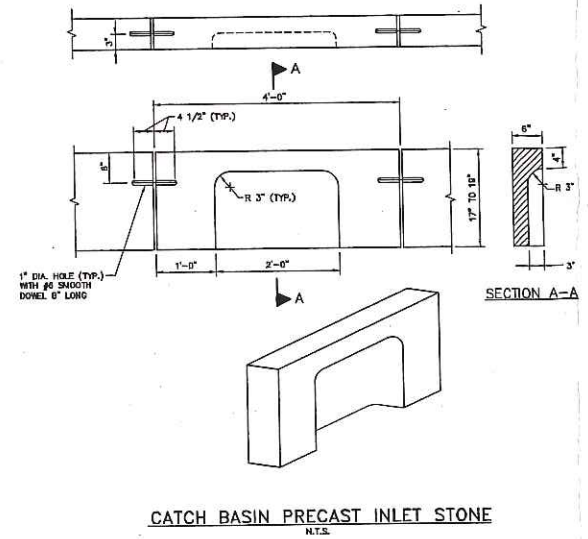
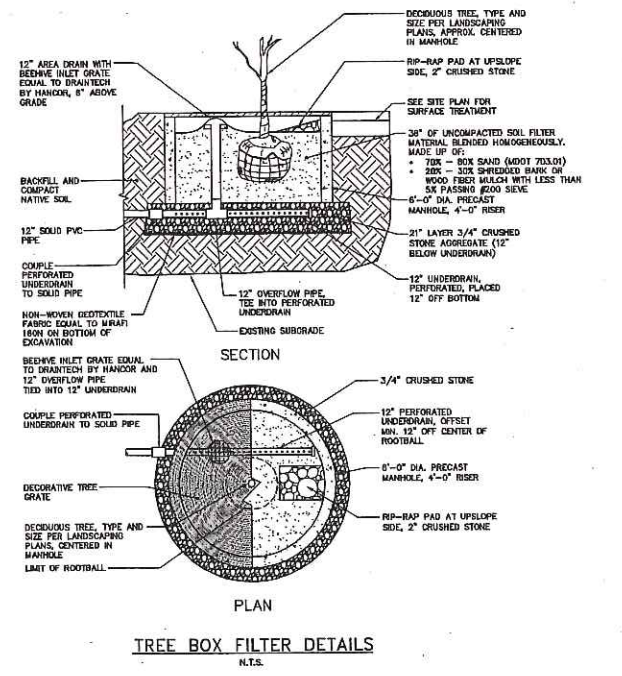
Date

February 12, 2007

Issue

Drawing Number

**C302**



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Portland Campus  
University of Southern Maine

Architect

Koetter | Kim  
& Associates Inc.

356 Boylston Street  
Boston, MA 02116  
T: (617) 536-6560  
F: (617) 536-1217

Consultants

Civil Engineer:  
Woodard & Curran  
41 Hazelden Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6535

Lighting:  
Sladen Feinstadt Int. Lighting Inc.  
73 Hornsey Street  
Boston, MA 02115  
T: (617) 267-8500  
F: (617) 267-2045

Landscape Architect:  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 886-2530  
F: (617) 886-2340

Specification:  
Coleman Waldron Corporation  
75 Bay State Road  
Winterset, MA 02463  
T: (617) 647-7732  
F: (617) 647-5297

Structural Engineer:  
Woodbridge  
201 Bowdoin 4th Floor  
Cambridge, MA 02139  
T: (617) 374-0000  
F: (617) 374-0010

Traffic:  
Carrill-Palmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 657-6910  
F: (207) 657-6912

MEP:  
Harriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 784-3017

Geotech:  
Henry & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2617  
T: (207) 482-4009  
F: (207) 482-4009

Issues

Revisions

Revision	Date	Description
1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project

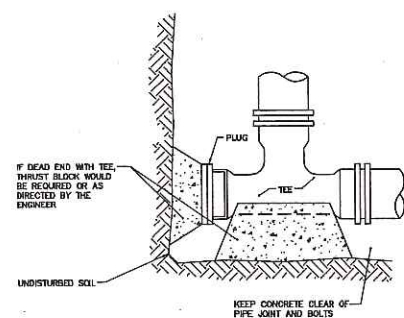
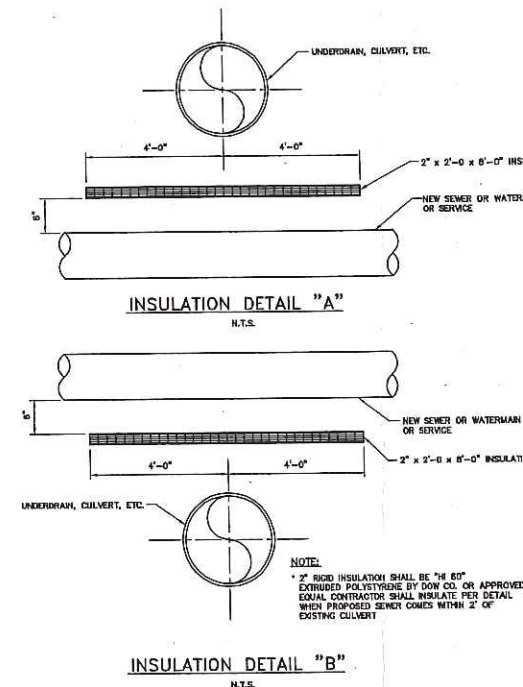
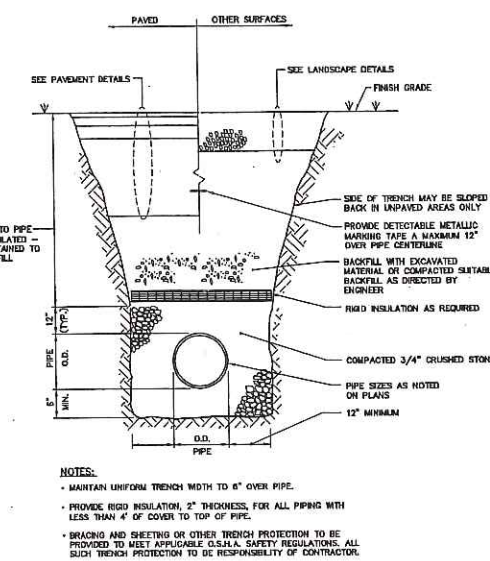
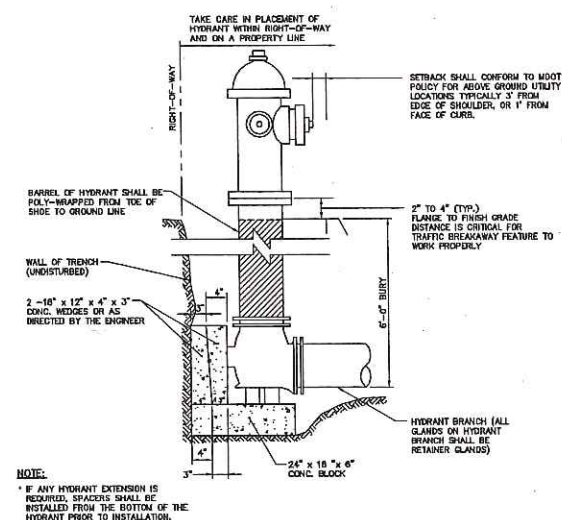
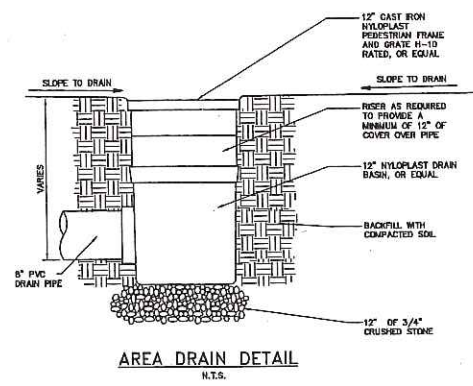
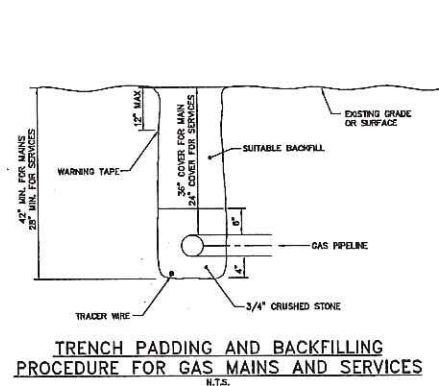
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Drawing Title

CIVIL DETAILS - 4

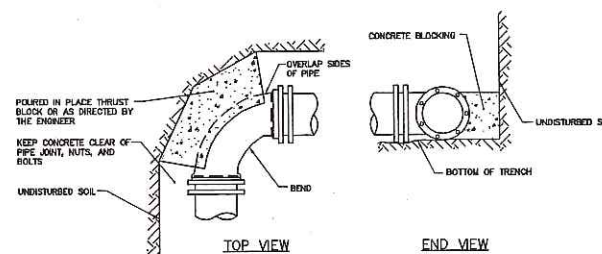
HSA Project Number 0510.000	Approval 
Drawn By JBC/BCM	
Checked By DAS/BSS	Date February 12, 2007
Issue	
Drawing Number	

C303



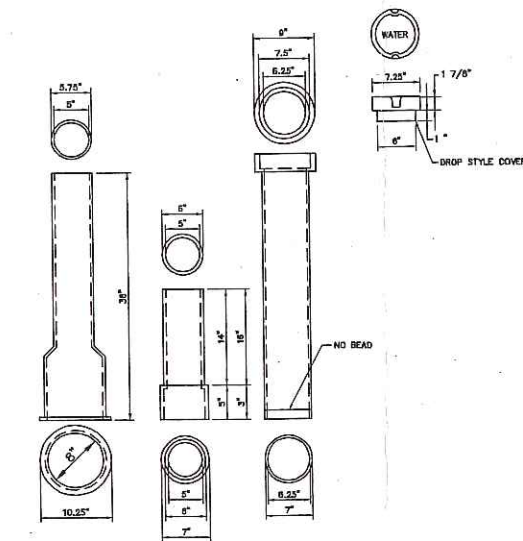
SIZE OF MAIN, (IN.)	90° BEND	TEES AND ELBOWS	45° BEND
6	4	3	2.5
8	7.5	6.6	4
12	16	12	9
16	27	21	15

\* TYPE OF SOIL IS MEDIUM CLAY OR MORE BLOWS/FOOT, OR LOOSE GRANULAR, 9 OR MORE BLOWS/FOOT. SOIL CONDITIONS OTHER THAN THOSE GIVEN WILL REQUIRE LARGER BEARING AREAS, AS DIRECTED IN FIELD BY ENGINEER.



1/4 BEND (90°)	USE POURED IN PLACE THRUST BLOCK WITH RETAINERS
1/8 BEND (90°)	THRUST BLOCK W/RETAINERS
1/8 BEND (45°)	THRUST BLOCK
1/32 BEND (11 1/4°)	THRUST BLOCK

\* THE ABOVE SCHEDULE IS SUBJECT TO THE APPROVAL OF THE ON-SITE INSPECTOR DUE TO SOILS AND WORKING PRESSURES IN AREA.

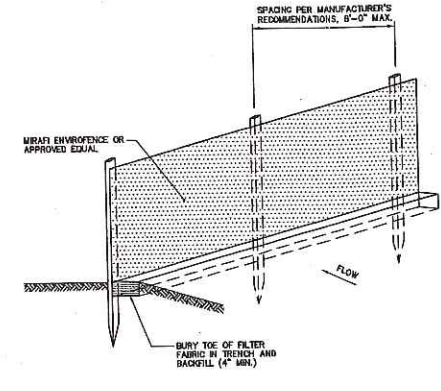


NOTE: NUMBERS ARE FOR 5-1/4" BUFFALO VALVE BOXES. \* BASE SECTION MAY BE USED AS INTERMEDIATE SECTION.

**EROSION AND SEDIMENT CONTROL NOTES**

**Temporary Erosion Control:**

Measure	Dates for use	Timing, Activity, and Location
Sedimentation Barrier	All	Before soil disturbance, install down-drift of areas to be disturbed and around material stockpiles.
Up-slope Diversion	All	Before soil disturbance, install up-drift of areas to be disturbed and material stockpiles.
Dust Control	All	During dry weather, apply water and calcium chloride to control dust.
Temporary Seeding	April 15 to Oct. 1	Soil stockpiles that are not covered and disturbed areas that will not be disturbed again within 14 days. If grass growth provides less than 90% soil coverage by Nov. 1, apply mulch and anchor with netting or hydro-mulched seeded fiber matrix.
Mulch	April 15 to Sept. 15	On all areas of exposed soil that are not temporarily seeded or that will not be disturbed again within 14 days, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. <u>3000 lbs./Z</u> less seeded. Erosion control blanket may be used as a substitute for winter mulch.
	Sept. 16 to Oct. 31	On all areas of exposed soil that are not temporarily seeded or that will not be disturbed again within 7 days, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. <u>3000 lbs./Z</u> less seeded. Erosion control blanket may be used as a substitute for winter mulch.
Winter Mulch	Nov. 1 to April 14	On all areas of exposed soil that are not temporarily seeded, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. and anchor with netting at <u>4" min. depth</u> . Erosion control blanket may be used as a substitute for winter mulch.
Inspections	Until all is permanently stabilized	Inspect the erosion and sedimentation control measures daily, and maintain and repair as necessary.

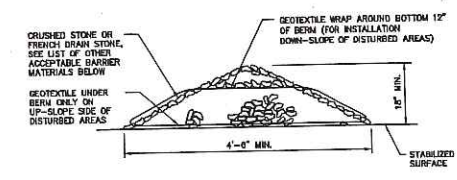


- NOTES:**
- INSTALL FABRIC ON UP-SLOPE SIDE OF SUPPORT POSTS
  - INSTALL SILT FENCE ACROSS SLOPES
  - SILT FENCE SHALL NOT BE USED IN DRAINAGE WAYS

**MAINTENANCE:** INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR LESS.

**REMOVAL:** WHEN UP-SLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

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



- NOTES:**
- TO BE USED TO DIVERT UP-SLOPE RUNOFF AROUND CONSTRUCTION SITE, OR AS SEDIMENT BARRIERS ON DOWN-SLOPE SIDES OF DISTURBED AREAS.
  - OTHER ACCEPTABLE BARRIERS INCLUDE SAND BAG BERM, FIBER ROLL, TEMPORARY ASPHALT BERM, OR POLYMERIC OVERSEEDS.
  - DIMENSION BERMS SHALL BE INSTALLED ACROSS SLOPES TO PREVENT EROSION ALONG THEIR LENGTH.
- MAINTENANCE:** INSPECT FOR BREAKS IN STONE OR GEOTEXTILE. REGULARLY REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT.
- REMOVAL:** AFTER UP-SLOPE AND/OR DOWN-SLOPE AREAS ARE PERMANENTLY STABILIZED, THE BERM SHALL BE REMOVED. ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO REMOVAL OF THE BERM. STONE, IF USED, SHALL BE REMOVED CAREFULLY SO NO LOOSE STONES REMAIN ON THE PAVED SURFACE.

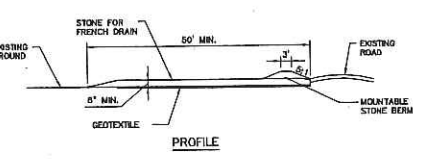
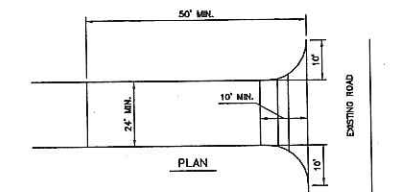
**EROSION/SEDIMENT BARRIER BERM DETAIL**  
N.T.S.

**Permanent Erosion Control:**

Measure	Dates for use	Timing, Activity, and Location
Permanent - Base Course - Final Course	When no final is in ground	Install only in areas shown on the plan, shortly after pavement base is brought to final grade. Install near completion of project.
Permanent Seeding	April 15 to Sept. 15	On final grade areas, within 7 days of grade preparation, prepare topsoil, followed by seed and mulch application.
Dormant Seeding	Sept. 16 to April 15	On final grade areas with prepared topsoil. Apply seed at double the specified rate on base soil, and follow with an application of winter mulch.
Ground Cover, Trees, Shrub	April 15 to Nov. 1	Install with final landscaping.
Permanent Mulch	All	Install with final landscaping.

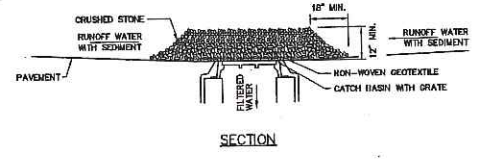
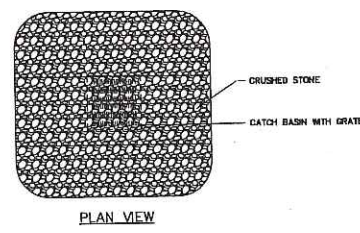
**Inspections:**  
Regular inspections of all erosion and sedimentation controls shall be made at least weekly and prior to and following storm events. Minimum inspections shall be made as listed in the table below.

Inspected Item	Look for
Mulched Surfaces	This mulch or inadequate application. Wind movement.
Seeded Surfaces	Poor seed germination. Loss of mulch. Development of ruts/holes.
Sediment Barrier	Sediment built-up to one half the height of the barrier. Undermining of the barrier. Supporting stakes loose, toppled, or unmarked. Breaches in barrier.
Perimeter Diversion	Discharge is in stabilized area. Erosion or breaks in barrier. Supporting stakes loose, toppled or unmarked.
Mat Protection	Sediment build-up and structures blockages. Slow flow/hanging water. Breaches in fabric or voids in barrier.
Dewatering Filter	Breaches in fabric or supporting structure. Slow flow, indicating high sediment built-up.
Construction Entrance	Sedimentation of roadway. Off-site dust complaints.



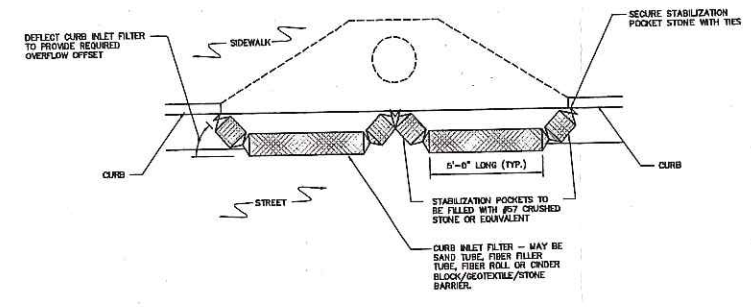
- NOTES:**
- CONSTRUCTION ENTRANCES MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
  - WHEEL WASH PITS MAY ALSO BE USED, IF APPROVED.
- MAINTENANCE:** INSPECT FOR EFFECTIVE REMOVAL OF SOIL FROM VEHICLES PRIOR TO LEAVING THE SITE. SWEEP ANY SOIL FROM ADJACENT ROADWAYS.
- REMOVAL:** AT LEAST ONE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL AREAS OF THE SITE ARE STABILIZED.

**STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
N.T.S.



- NOTES:**
- TO BE USED AT CATCH BASINS THAT ARE LOCATED DOWN-SLOPE FROM EXCAVATED AREAS.
  - IN TRAFFIC AREAS, PROVIDE ACF ENVIRONMENTAL INC. HIGH FLOW SLESTACK, SILT SAVER INLET FILTER, OR EQUAL INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, IN LIEU OF CRUSHED STONE MOUND.
- MAINTENANCE:** INSPECT FOR BREAKS IN THE STONE, GEOTEXTILE BARRIER OR MANUFACTURED PRODUCT. REGULARLY REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT.
- REMOVAL:** PROTECTION SHALL BE CAREFULLY REMOVED WHEN ALL UP-SLOPE DISTURBED AREAS ARE STABILIZED.

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



- NOTES:**
- EACH END OF THE BARRIER SHALL BE SECURELY ANCHORED TO KEEP WATER FORCES FROM MOVING THE BARRIER.
  - PLACE THE CURB INLET FILTER(S) IN FRONT OF THE CURB INLET OR OPENING TO PREVENT THE MIGRATION OF SILT INTO THE STORM DRAIN SYSTEM.
  - INSTALLATION PROCEDURES AND SAFETY CONSIDERATIONS CAN VARY WITH SITE CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS.
- MAINTENANCE:** INSPECT FOR BREACHES IN THE BARRIER AND REPAIR AS NEEDED. REGULARLY REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT.
- REMOVAL:** CURB INLET BARRIERS SHALL BE REMOVED WHEN UP-SLOPE AREAS ARE PERMANENTLY STABILIZED.

**CURB INLET BARRIER DETAIL**  
N.T.S.

Issue


Revisions

Rev	Date	Description
1	2/12/2007	PERMITTING DOCUMENTS - NOT FOR CONSTRUCTION

Project  
**University Commons**  
University of Southern Maine

Drawing Title  
**CIVIL DETAILS - 5**

Approval	
KKA Project Number	0510.000
Drawn By	JBC/BM
Checked by	DAS/BSS
Date	February 12, 2007
Issue	

Drawing Number  
**C304**





**Portland Campus**  
University of Southern Maine

Architect

**Koetter | Kim  
& Associates Inc.**

358 Bedford Street  
Boston, MA 02116  
T: (617) 536 - 8660  
F: (617) 536 - 1217

Consultants

**Civil Engineer:**  
Woodard & Curran  
41 Hudson Drive  
Portland, ME 04102  
T: (207) 774 - 2112  
F: (207) 774 - 6635

**Landscape Architect:**  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02110  
T: (617) 896 - 2990  
F: (617) 896 - 2340

**Structural Engineer:**  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 374 - 0000  
F: (617) 374 - 0110

**MEP:**  
Harrison Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784 - 5100  
F: (207) 782 - 3017

**Lighting:**  
Studen Faimelin Int. Lighting Inc.  
73 Herseyway Street  
Boston, MA 02115  
T: (617) 267 - 8600  
F: (617) 267 - 2045

**Specification:**  
Collective Wisdom Corporation  
75 Bay State Road  
Weston, MA 02459  
T: (781) 647-7332  
F: (781) 647-6297

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Garrill-Palmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 657-8910  
F: (207) 657-8912

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Hayes & Albrecht, Inc.  
75 Washington Avenue, Suite 200  
Portland, ME 04101-2617  
T: (207) 452-4909  
F: (207) 452-4659

**Issues**  
100% CONSTRUCTION DOCUMENTS  
November 17, 2006

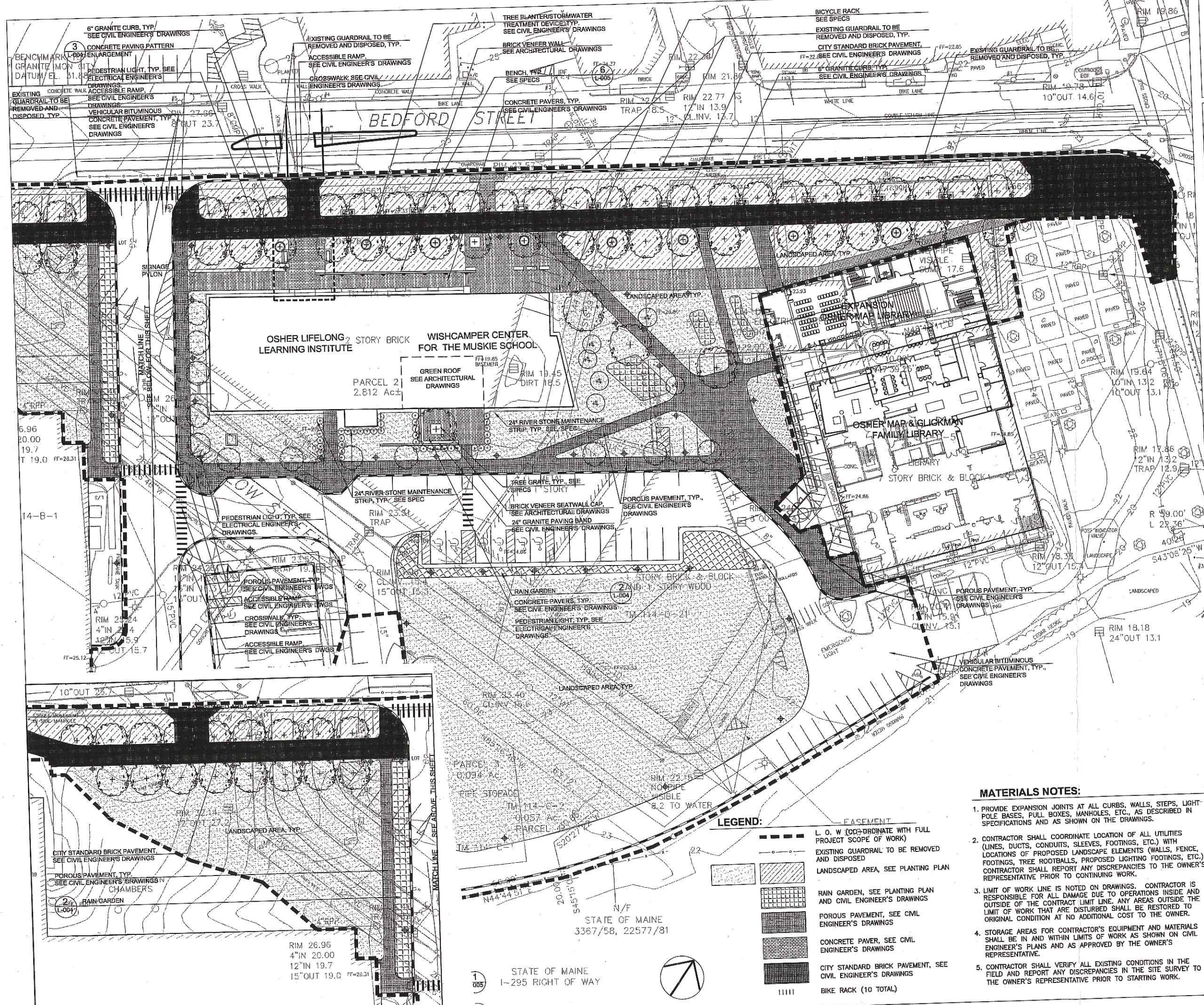
Revisions		
Δ	Addendum #1	12/11/06

**Project**  
**University Commons**  
University of Southern Maine

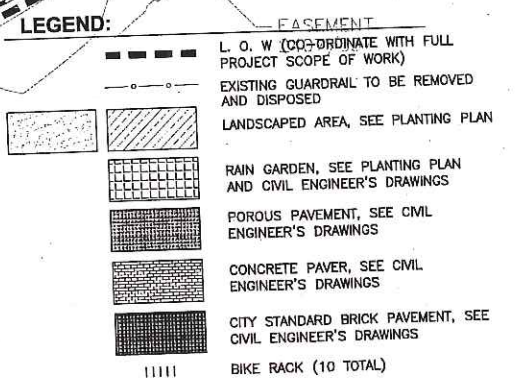
**Drawing Title**  
**MATERIALS PLAN**

Scale: 1"=20'-0"	Approval: _____
HKA Project Number: 0510.000	
Drawn By: _____	
Checked By: _____	
Date: November 17, 2006	
Issue: _____	
Drawing Number: _____	

**L-002**



- MATERIALS NOTES:**
- PROVIDE EXPANSION JOINTS AT ALL CURBS, WALLS, STEPS, LIGHT POLE BASES, PULL BOXES, MANHOLES, ETC., AS DESCRIBED IN SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
  - CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
  - LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
  - STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE IN AND WITHIN LIMITS OF WORK AS SHOWN ON CIVIL ENGINEER'S PLANS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
  - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.



STATE OF MAINE  
1-295 RIGHT OF WAY



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University of Southern Maine

Architect  
**Koetter | Kim & Associates Inc.**

356 Boylston Street  
Boston, MA 02116  
T: (617) 536-8560  
F: (617) 536-1217

Consultants

Civil Engineer:  
Woodard & Curran  
41 Hutchins Drive  
Portland, ME 04102  
T: (207) 774-2112  
F: (207) 774-6635

Landscape Architect:  
Carol R. Johnson Associates  
115 Broad Street  
Boston, MA 02115  
T: (617) 898-2550  
F: (617) 898-2340

Structural Engineer:  
Weldinger  
201 Broadway 4th Floor  
Cambridge, MA 02139  
T: (617) 574-0000  
F: (617) 374-0010

MEP:  
Herriman Associates  
One Auburn Business Park  
Auburn, ME 04210  
T: (207) 784-5100  
F: (207) 782-3017

Lighting:  
Steven Feldstein Int. Lighting Inc.  
72 Hennessey Street  
Boston, MA 02115  
T: (617) 267-9500  
F: (617) 267-2045

Specification:  
Collective Wisdom Corporation  
75 Bay State Road  
Wesley, MA 02483  
T: (781) 647-7322  
F: (781) 647-5287

Trific:  
Gorrick-Palmer Inc.  
15 Shaker Road  
Gray, ME 04039  
T: (207) 657-8910  
F: (207) 657-6912

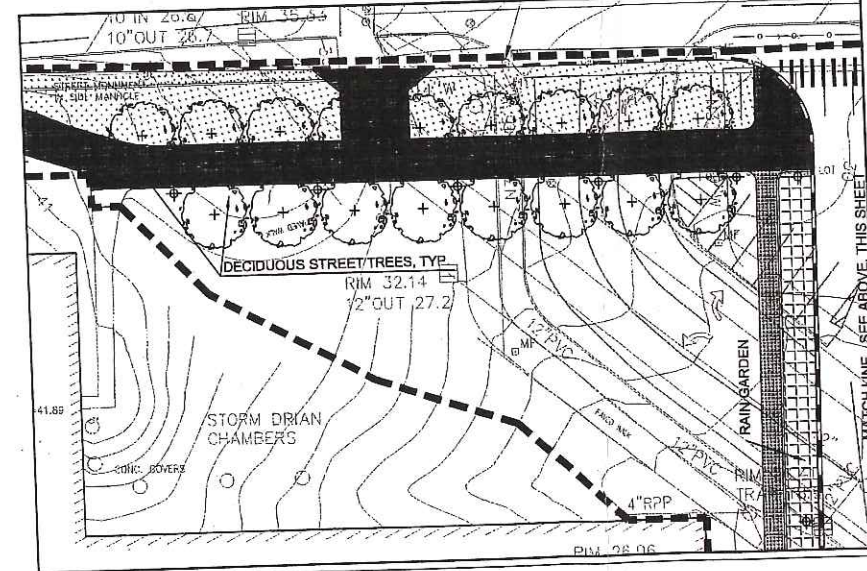
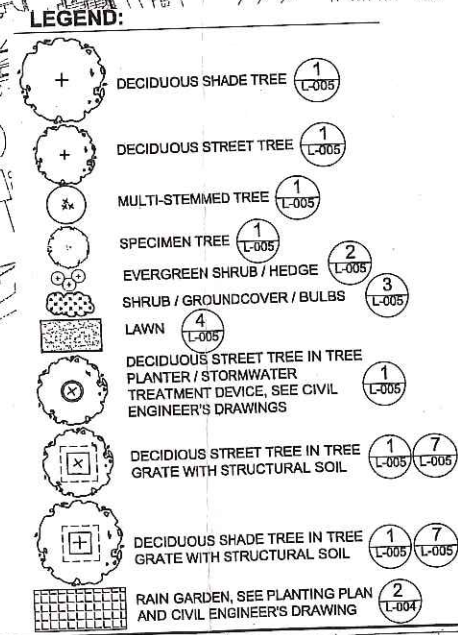
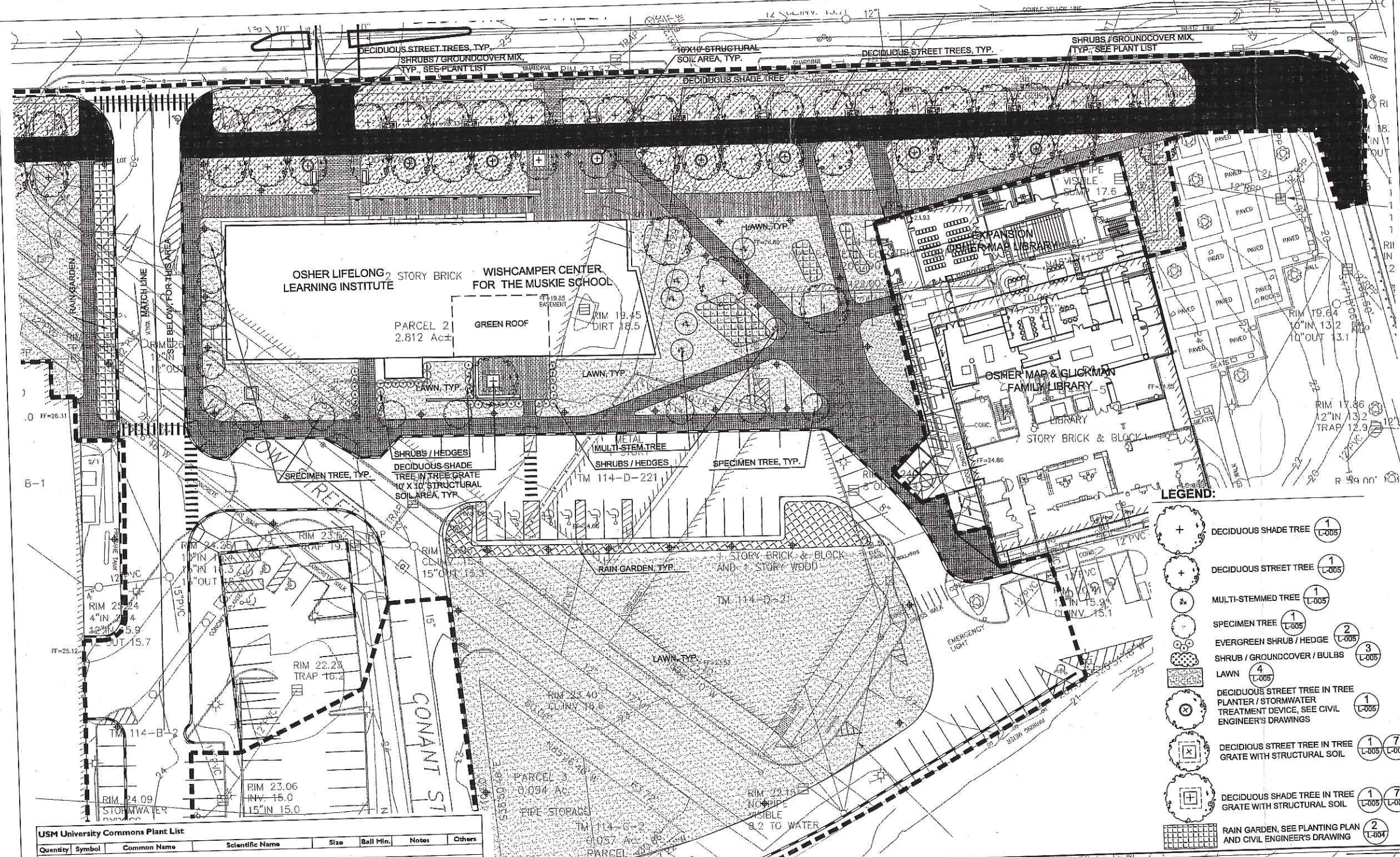
Geotech:  
Hayley & Aldrich, Inc.  
75 Washington Avenue, Suite 203  
Portland, ME 04101-2617  
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Issue  
100% CONSTRUCTION DOCUMENTS  
November 17, 2006

Revisions	Revision	Date
1	Addendum #1	12/11/06

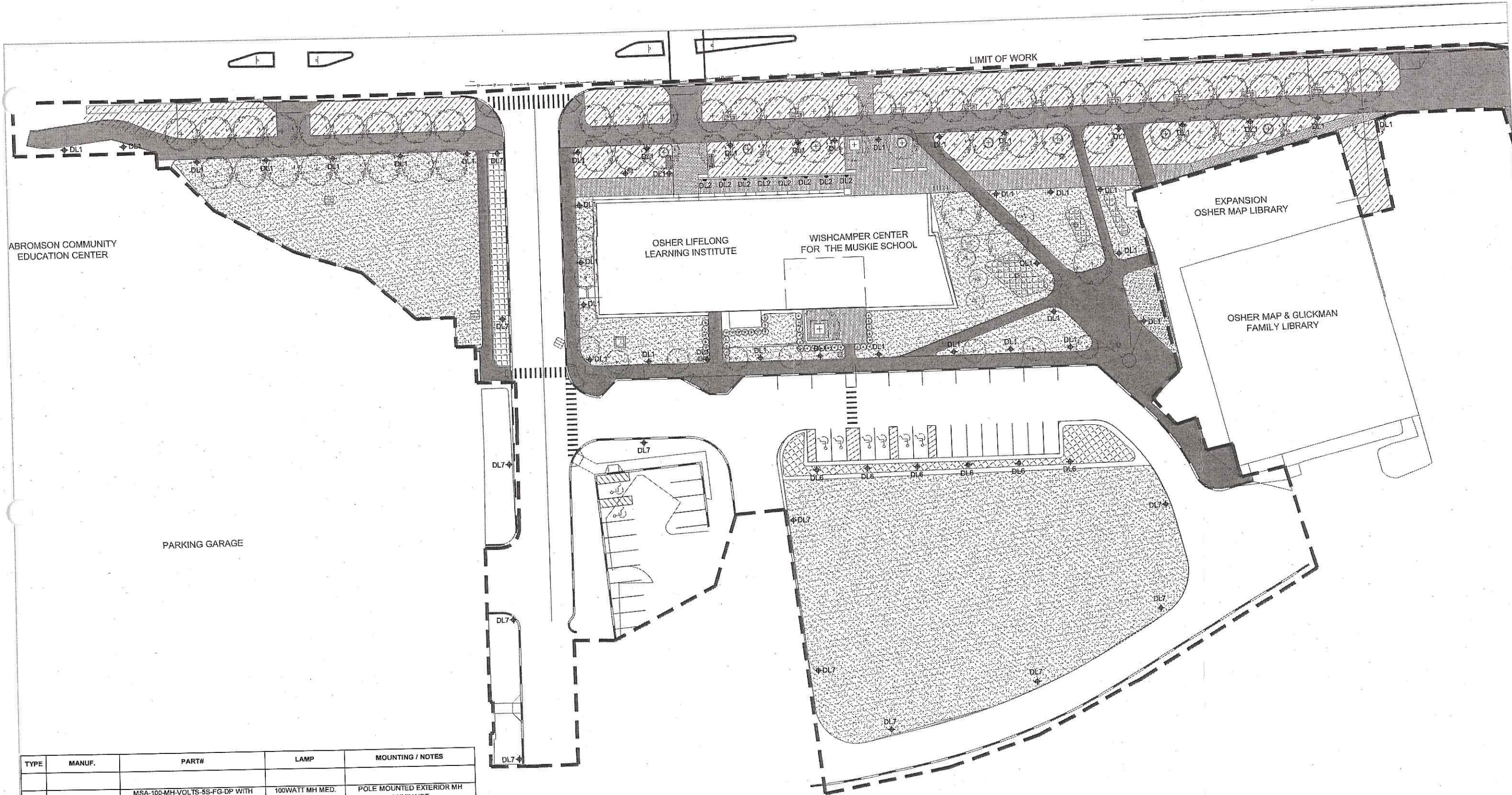
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Drawing Title	
1"=20'-0"	Approval
KKA Project Number 0510.000	
Drawn By	
Checked By	
Date November 17, 2006	
Issue	
Drawing Number <b>L-003</b>	



Quantity	Symbol	Common Name	Scientific Name	Size	Ball Min.	Notes	Others
<b>Deciduous Shade Trees</b>							
4	QR	Red Oak	<i>Quercus rubra</i>	3" caliper	32"	Fall Hazard	
<b>Deciduous Street Trees</b>							
61	GT	Thornless Honeylocust	<i>Gleditsia triacanthos 'Shademaster'</i>	3" caliper	32"		
	GTS	Thornless Honeylocust	<i>Gleditsia triacanthos 'Skyline'</i>	3" caliper	32"		
	FP	Seedless Green Ash	<i>Fraxinus pennsylvanica</i>	3" caliper	32"		
<b>Specimen Trees</b>							
12	PC	Bradford Callery Pear	<i>Pyrus calleryana 'Bradford'</i>	10-12' ht.			
	PS	Sargent Cherry	<i>Prunus sargentii</i>	10-12' ht.			
<b>Multi-stem Trees</b>							
6	AG	Serviceberry	<i>Amelanchier x grandiflora</i>	10-12' ht.		Multi-stem	
	BN	River Birch	<i>Betula nigra</i>	10-12' ht.		Multi-stem	
<b>Evergreen Shrubs / Hedges</b>							
32	IG	Dwarf Inberry	<i>Ilex glabra 'Dwarf'</i>	2-2.5' ht.			
	TC	Greenwave Yew	<i>Taxus cuspidata 'Greenwave'</i>	2-2.5' ht.			
<b>PLANT MATERIALS MIX</b>							
<b>Deciduous Shrubs</b>							
760	AD	Delaware Valley Azalea	<i>Rhododendron 'Delaware Valley'</i>	3' ht.			As Groundcover
	CH	Creeping Cotoneaster	<i>Cotoneaster horizontalis</i>	36" sprd.			
<b>Evergreen Shrubs</b>							
760	JC	Sargent Juniper	<i>Juniperus chinensis 'Sargentii'</i>	12" ht.			As Groundcover
	MD	Russian Arborvitae	<i>Microbiota decussata</i>	12" ht.			As Groundcover
<b>Groundcovers</b>							
56570	EF	Wintercreeper	<i>Euonymus fortunei</i>	1 gal.			6" oc.
	EH	English Ivy	<i>Hedera helix</i>	1 gal.			6" oc.
	LS	Urtica	<i>Urtica spicata</i>	12" ht.			
	VH	Vinca	<i>Vinca minor</i>	1 gal.			6" oc.
<b>Vines</b>							
17	HH	English Ivy	<i>Hedera helix 'Gold Heart'</i>	1 gal.			18" oc.

Rain Garden Mix - see Detail 2 / L-004  
CROSS REF: see Detail 1 / L-004



TYPE	MANUF.	PART#	LAMP	MOUNTING / NOTES
DL1	INVUE	MSA-100-MH-VOLTS-5S-FG-DP WITH ARX5T12NDP-5	100WATT MH MED. BASE	POLE MOUNTED EXTERIOR MH LUMINAIRE
DL2	BEGA	3042MH-524	39WATT CMH/T5	RECESSED WALL / STEP LIGHT
DL6	KIM LIGHTING	ISA-SAR4-100MHVOLT-PS-P WITH 14' POLE TO MATCH	100 ED17 CLEAR	POLE MOUNTED EXTERIOR MH LUMINAIRE
DL7	KIM LIGHTING	ISA-SAR2-100MHVOLT-PS-P WITH 14' POLE TO MATCH	100 ED17 CLEAR	POLE MOUNTED EXTERIOR MH ROADWAY LUMINAIRE



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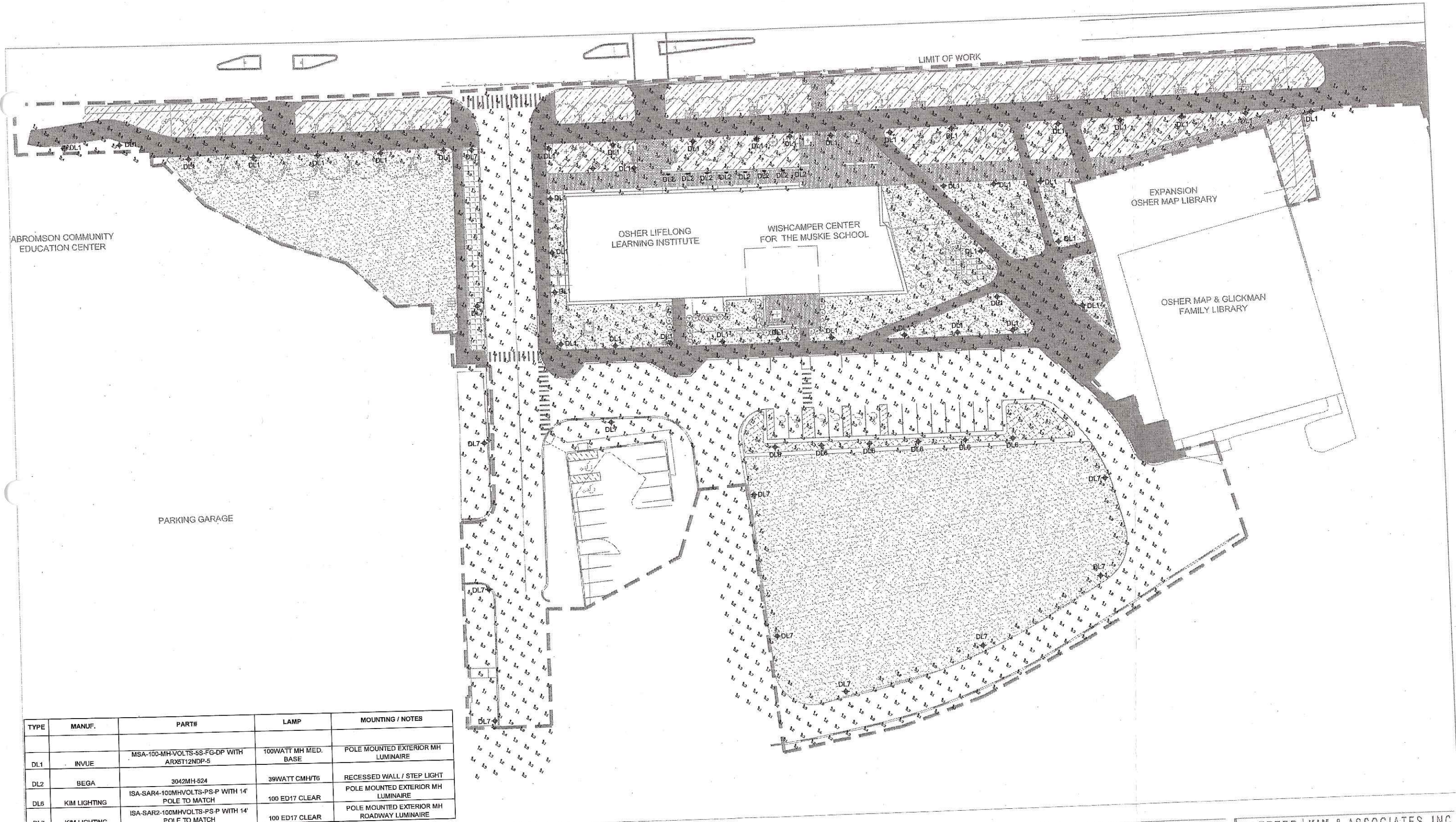
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 SITE LIGHTING PLAN

**KOETTER | KIM & ASSOCIATES INC.**

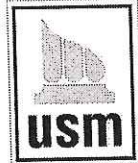
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TYPE	MANUF.	PART#	LAMP	MOUNTING / NOTES
DL1	INVUE	MSA-100-MH-VOLTS-SS-FG-DP WITH ARX5T12NDP-5	100WATT MH MED. BASE	POLE MOUNTED EXTERIOR MH LUMINAIRE
DL2	BEGA	3042MH-524	39WATT CMH/T6	RECESSED WALL / STEP LIGHT
DL6	KIM LIGHTING	ISA-SAR4-100MHVOLTS-PS-P WITH 14' POLE TO MATCH	100 ED17 CLEAR	POLE MOUNTED EXTERIOR MH LUMINAIRE
DL7	KIM LIGHTING	ISA-SAR2-100MHVOLTS-PS-P WITH 14' POLE TO MATCH	100 ED17 CLEAR	POLE MOUNTED EXTERIOR MH ROADWAY LUMINAIRE



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 SITE LIGHTING PLAN

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## Q. FINAL ARCHITECTURAL PLANS

The following drawings are submitted in accordance with City of Portland Code of Ordinances, Chapter 14 Land Use, Section 14-525(b)(2).

### Q.1 NARRATIVE ON EXTERIOR MATERIALS BY KOETTER KIM & ASSOCIATES

### Q.2 DRAWING LIST

#### The Wishcamper Center:

- Bedford (North) Elevation
- South Elevation
- End Elevations
- Courtyard Elevations
- First Floor Plan
- Second Floor Plan
- Third Floor Plan
- Fourth Floor Plan

#### Osher Map Library

- Bedford (North) Elevation
- West Elevation
- Forest (East) Elevation
- First Floor Plan (Including Glickman Renovations)
- Upper Floor Plans
- Computer Model Renderings (2)

#### Bedford Street

- Bedford Elevation of Project

#### Model

- Eleven (11) Photographs of Architectural Model

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Portland, ME

OLLI/Muskie  
KKA # 0510.000

## MEMORANDUM

*Date:* February 12, 2007

*Subject:* University Commons Exterior Materials

*From:* Bill Fitzpatrick

The Wishcamper Center, The Osher Map Library and the new entry to the Glickman Family Library constitute the University Commons project at the University of Southern Maine's Portland campus. The design of these buildings and additions was developed concurrently and in deference to the University of Southern Maine's Campus Design Principles and Standards. For the purposes of this discussion about exterior materials the following principles are most relevant:

**Purpose** - "...create a visual connection with existing campus buildings with the goal of achieving a cohesive campus appearance."

**Principle A - Campus Design** "...integrate these buildings into a coherent whole..."

"...strengthen the overall image of the campus...create a pedestrian oriented environment..."

### **Principle D – Architectural Design**

#### STANDARD D-4 Massing

"Buildings shall include features such as expression of the building's base, middle and top, vertical fenestration, variations in planes of the façade..."

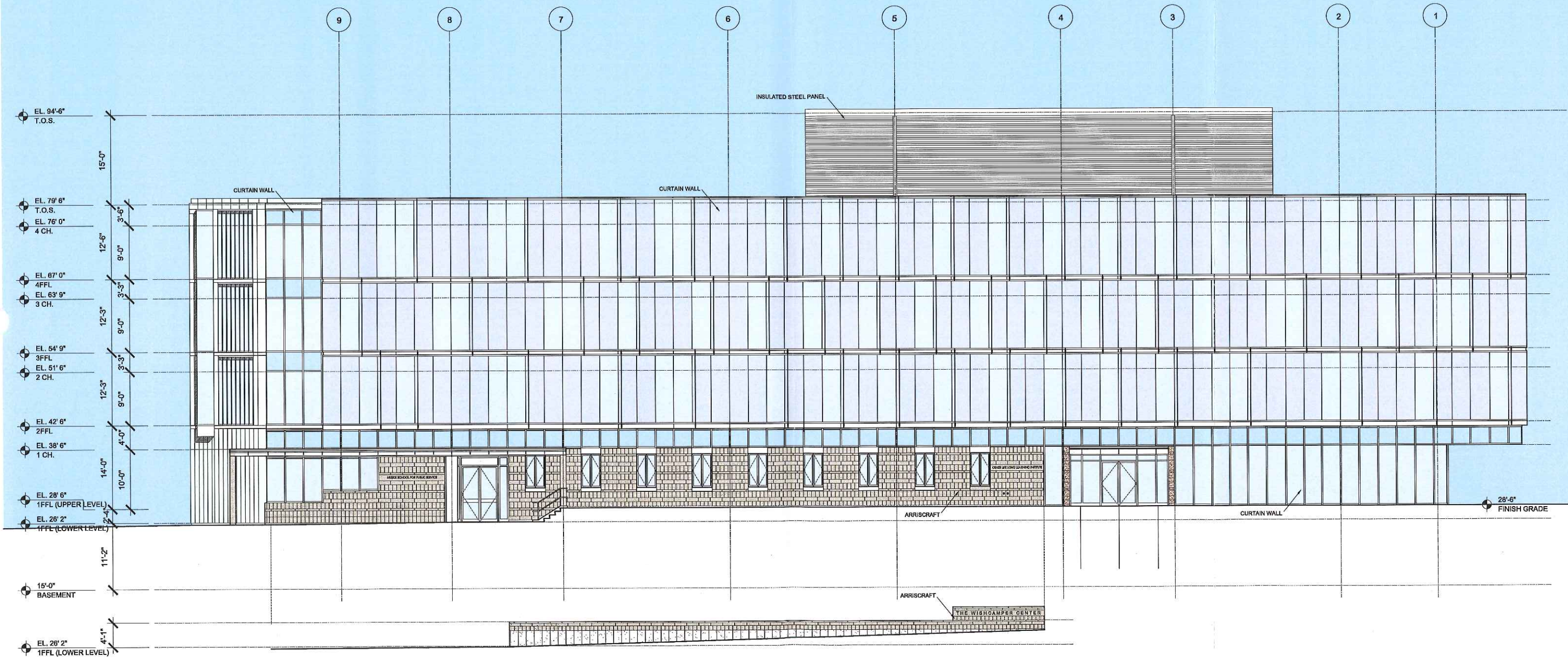
#### STANDARD D- 6 Windows

"...first floor transparency along public streets shall be...50% of the wall area...upper floor at least 15% - 40% transparency..."

If it can be demonstrated that the building program precludes windows along first floor street frontages, then other surface details should be used."

#### STANDARD D-7 Materials

"...Predominant materials shall be...brick, stone... other masonry products,...glass

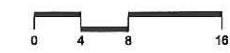


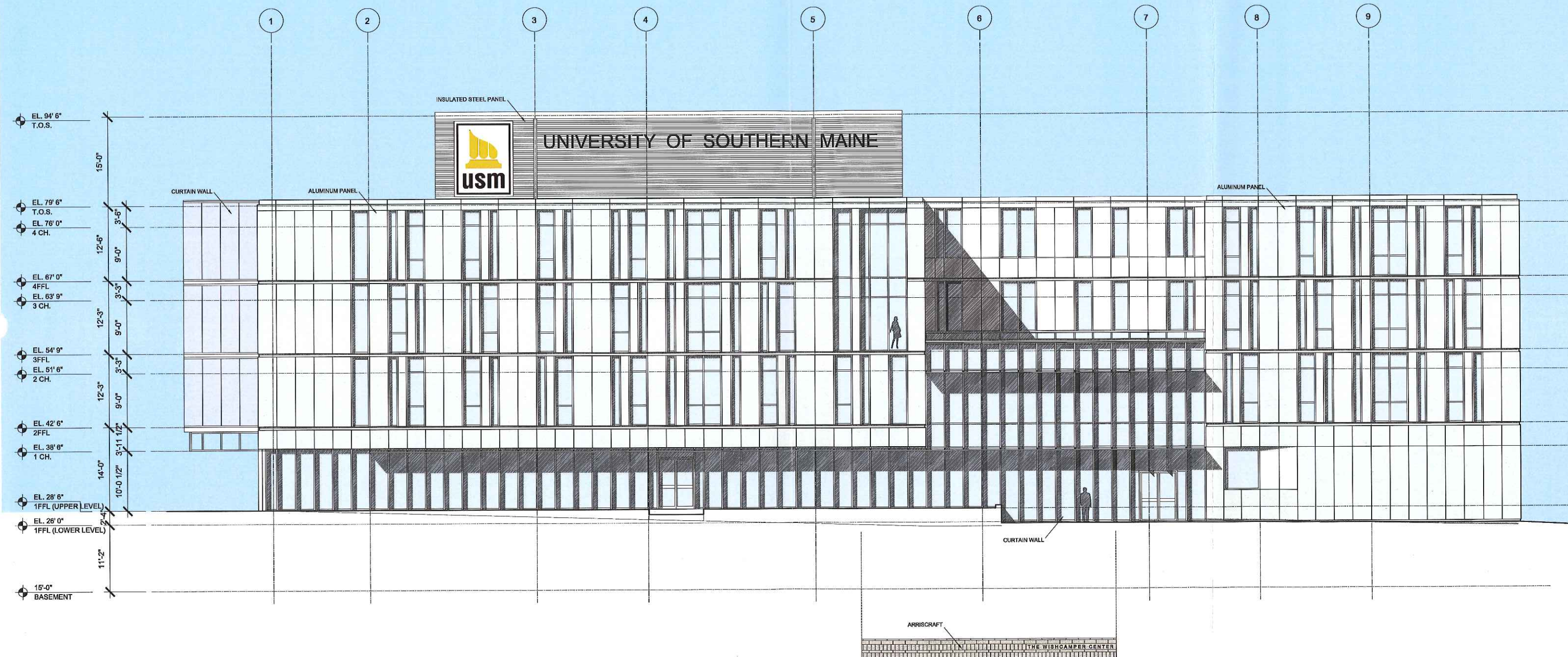
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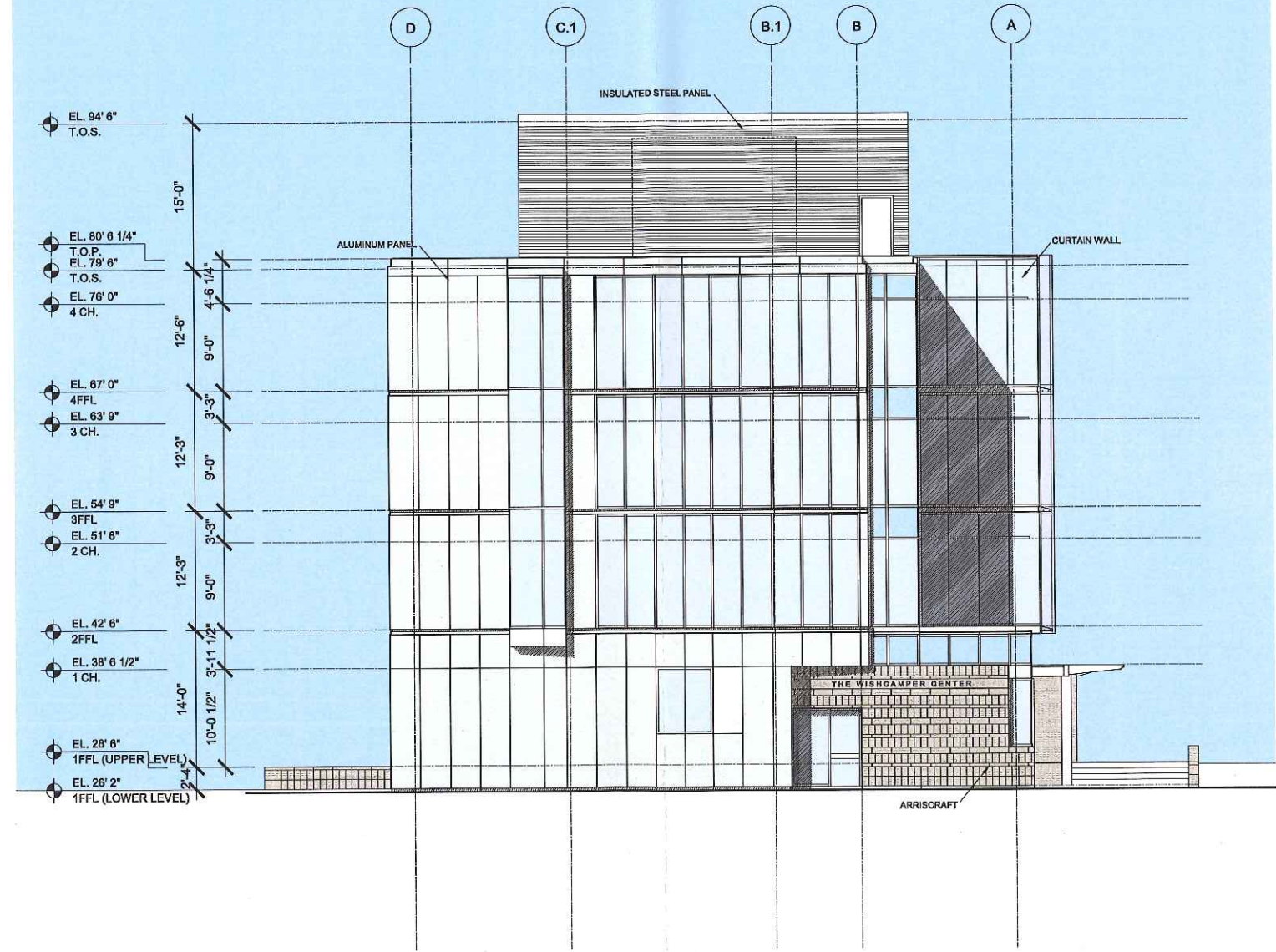
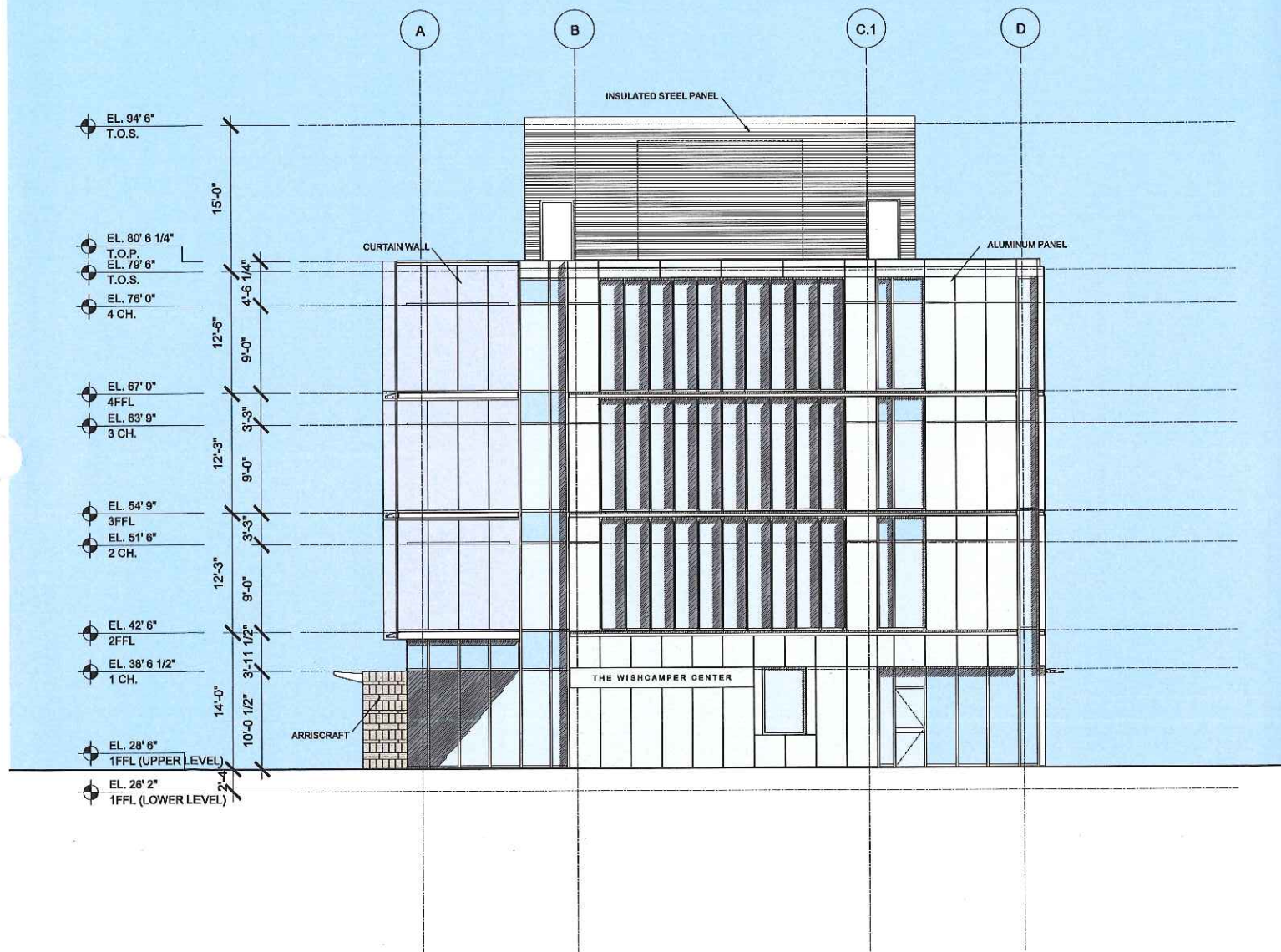
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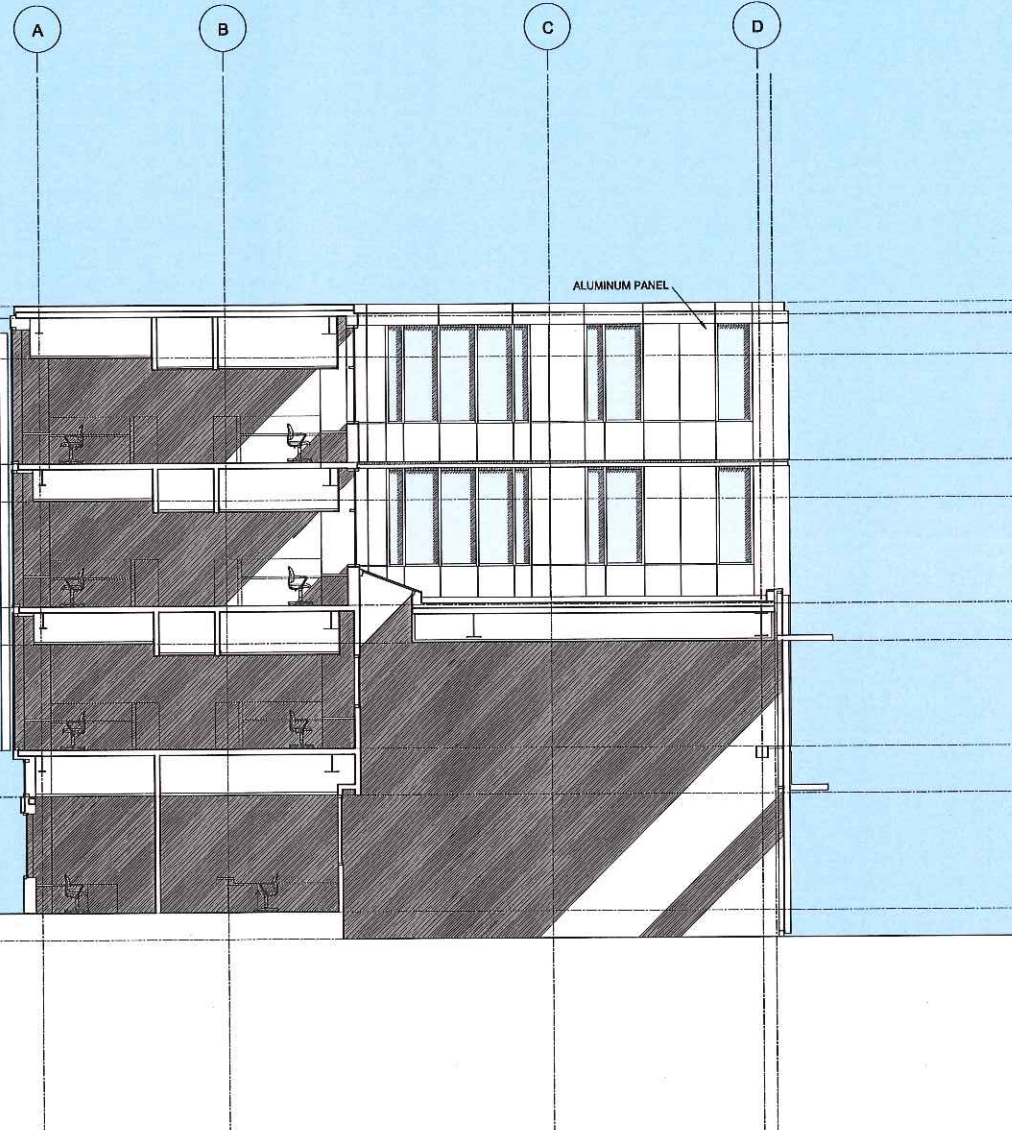
END ELEVATIONS

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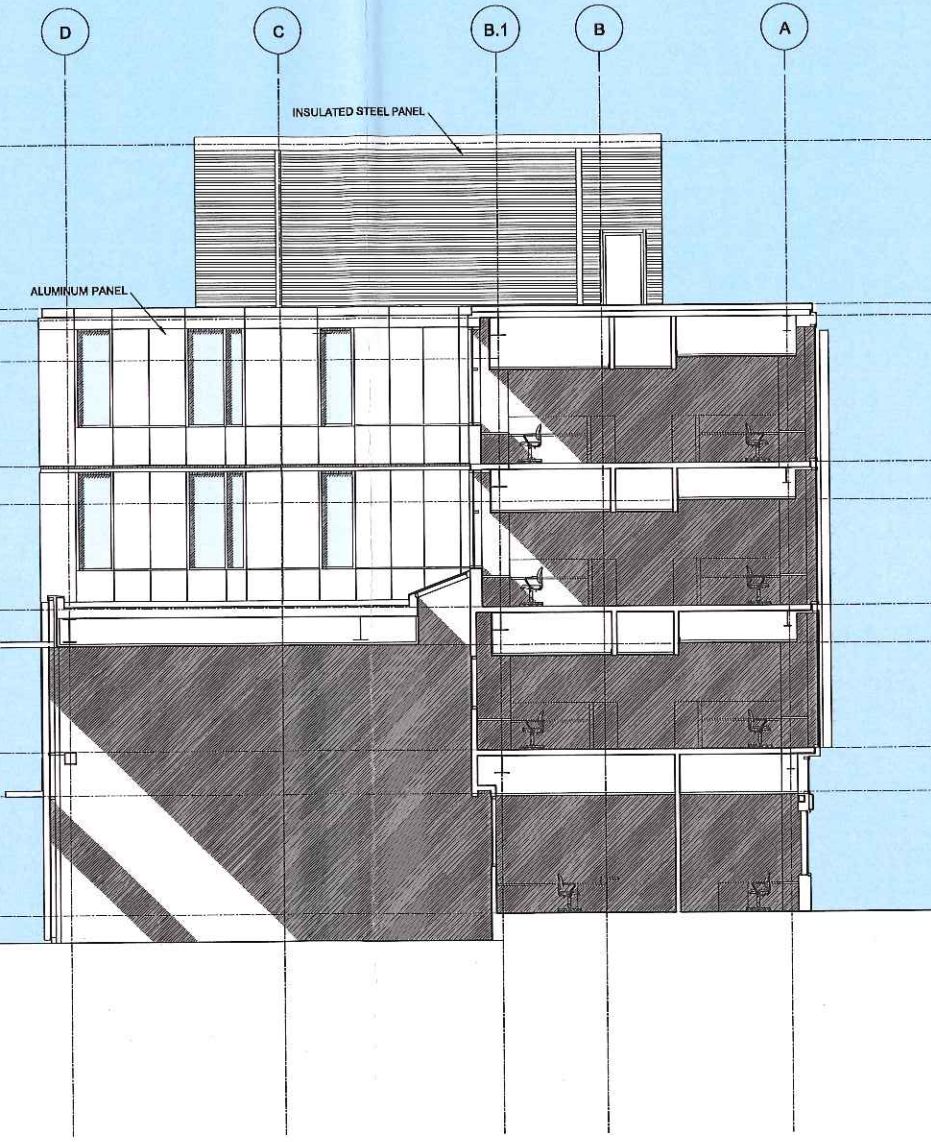
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EL. 80' 6 1/4"  
 T.O.P.  
 EL. 79' 6"  
 T.O.S.  
 EL. 76' 0"  
 4 CH.  
  
 EL. 67' 0"  
 4FFL  
 EL. 63' 9"  
 3 CH.  
  
 EL. 54' 9"  
 3FFL  
 EL. 51' 6"  
 2 CH.  
  
 EL. 42' 6"  
 2FFL  
 EL. 39' 3"  
 1 CH.  
  
 EL. 28' 6"  
 1FFL (UPPER LEVEL)  
 EL. 28' 2"  
 1FFL (LOWER LEVEL)



EL. 94' 6"  
 T.O.S.  
  
 EL. 80' 6 1/4"  
 T.O.P.  
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 T.O.S.  
 EL. 76' 0"  
 4 CH.  
  
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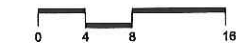


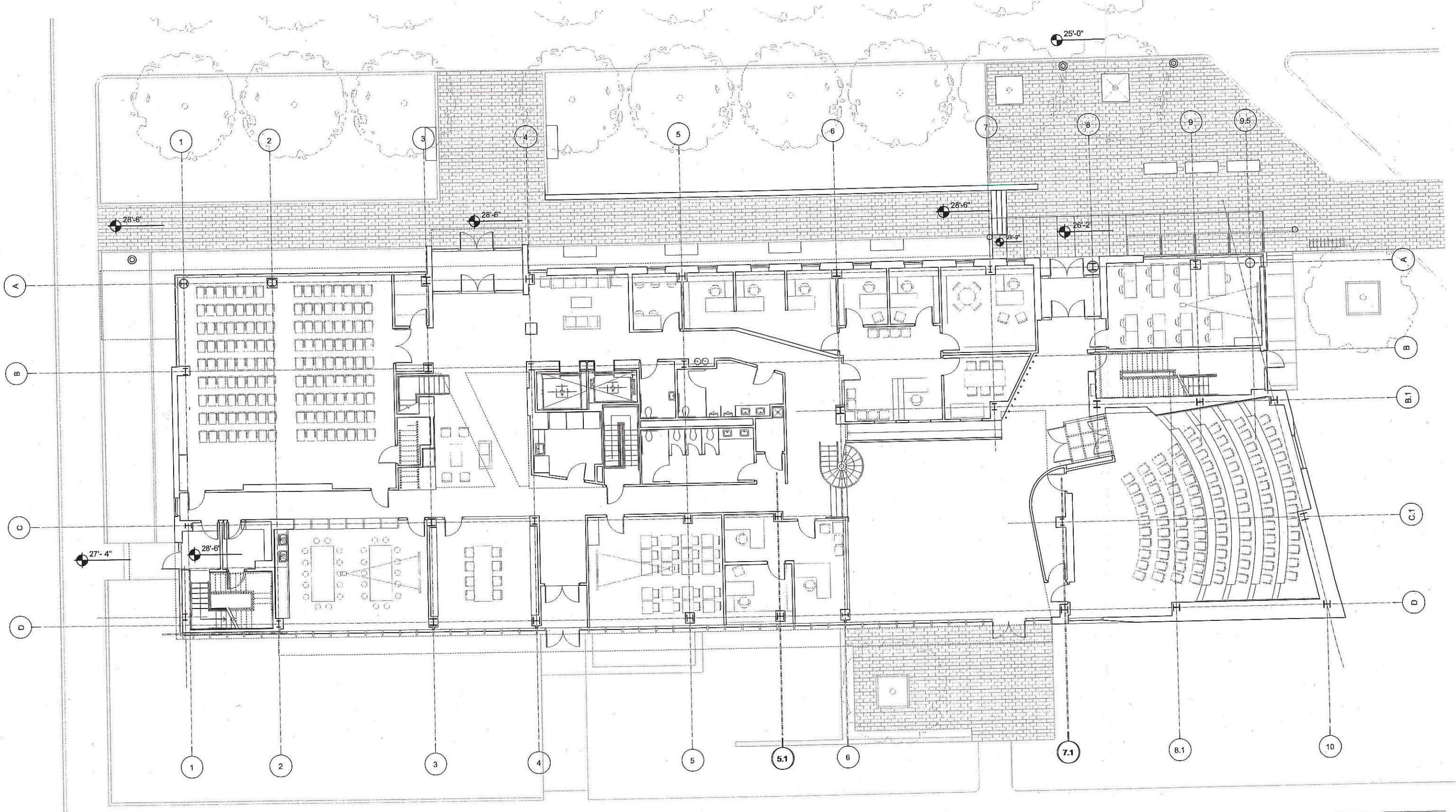
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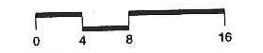
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**FIRST FLOOR PLAN**



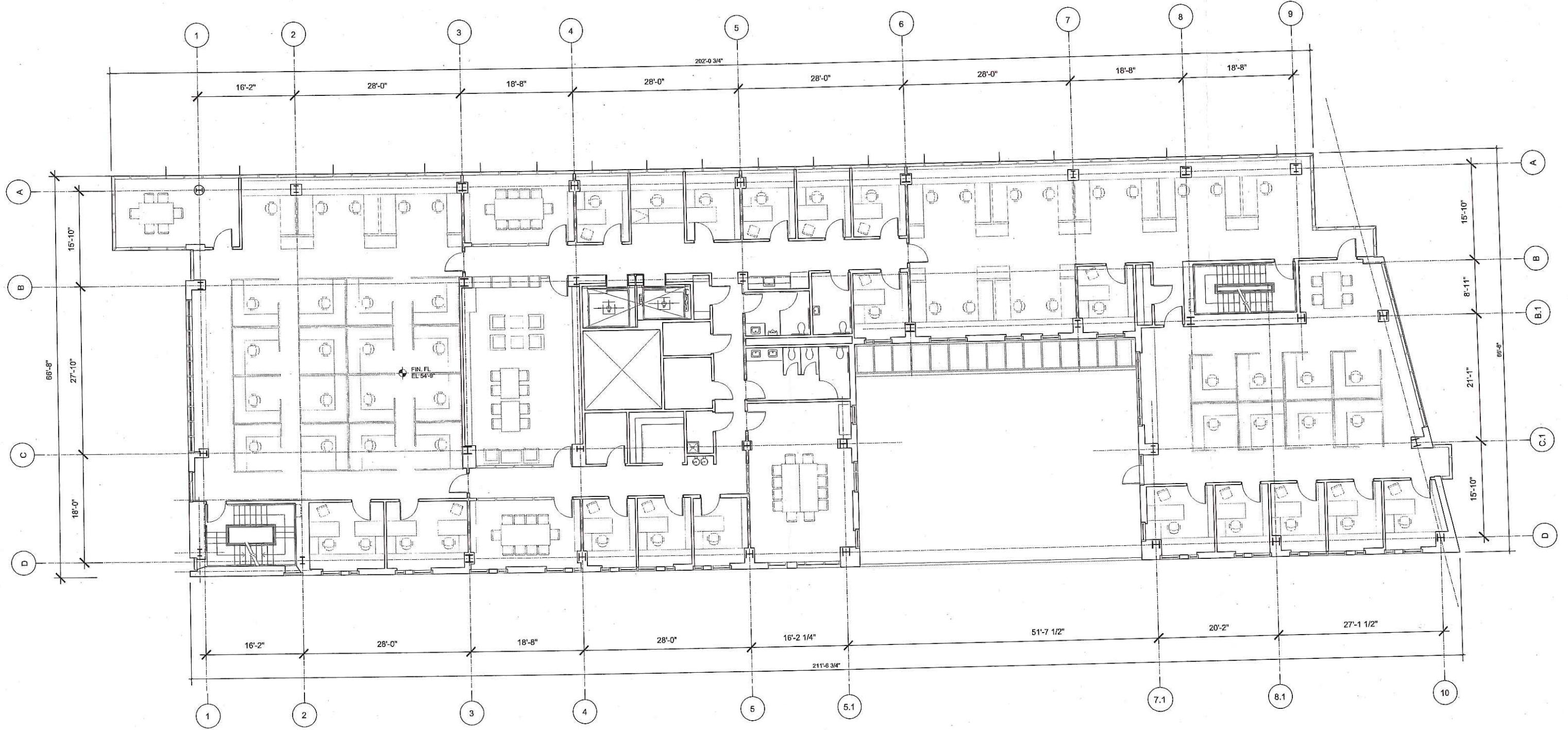
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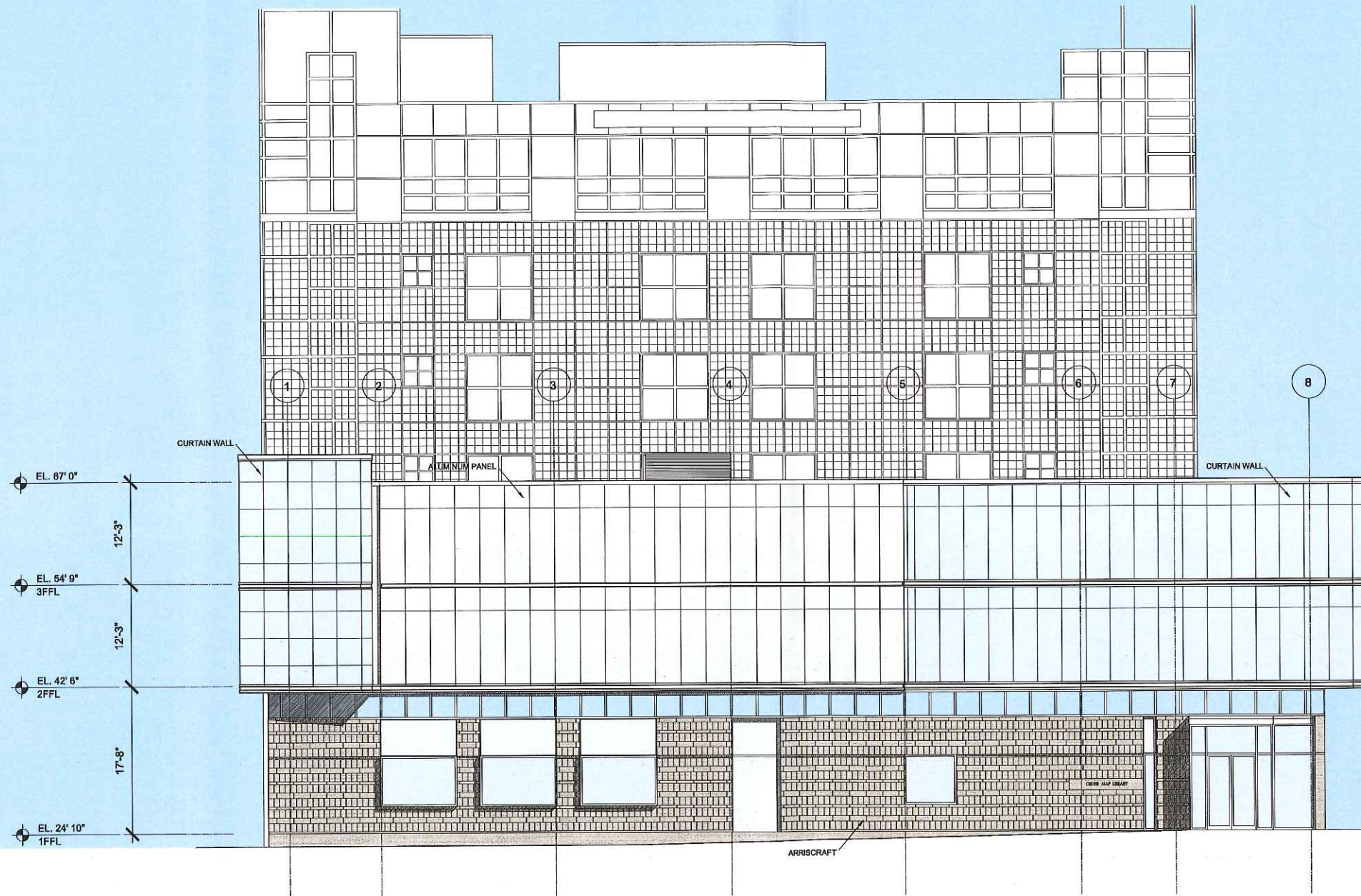




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 THIRD FLOOR PLAN

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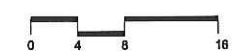


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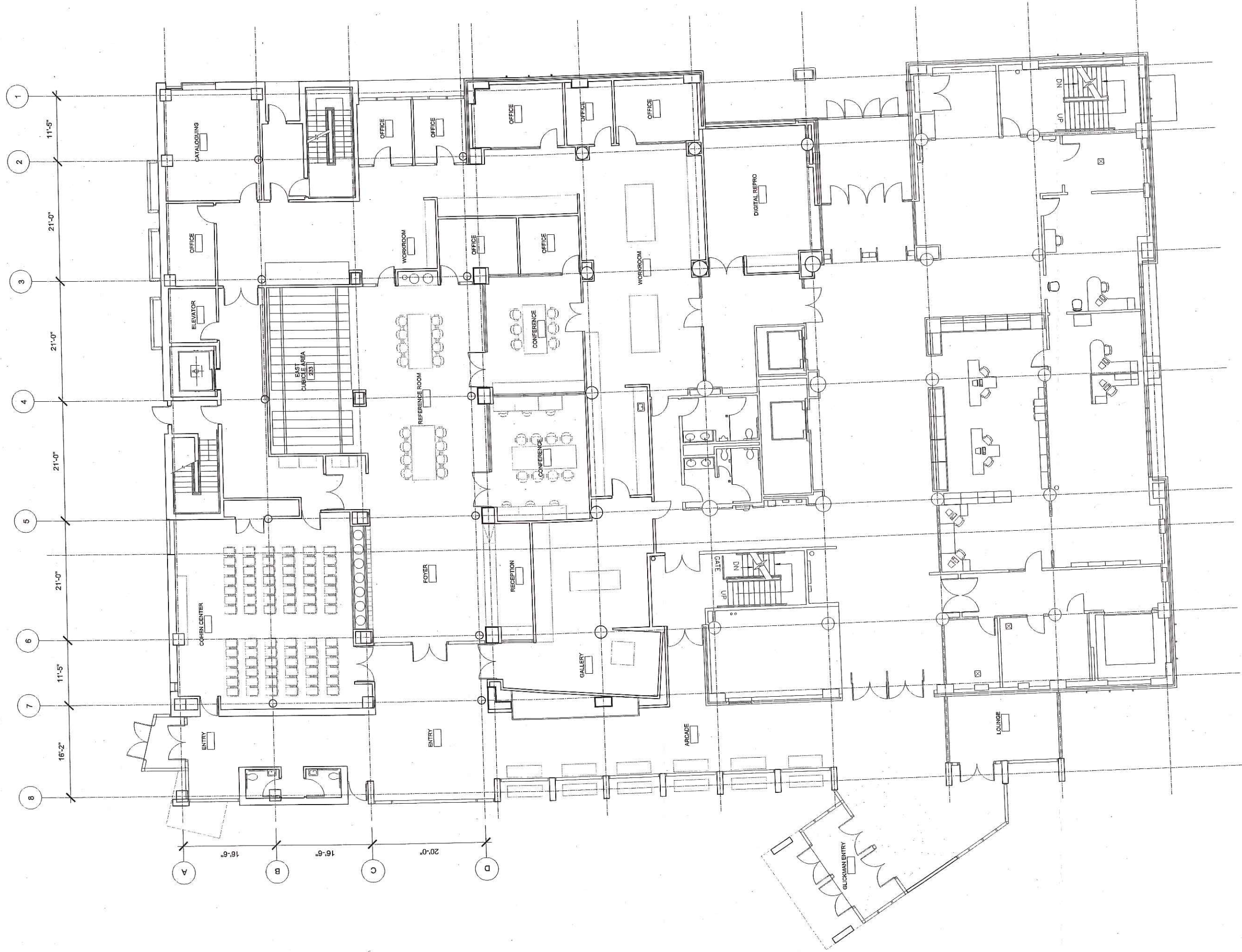




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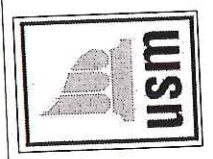
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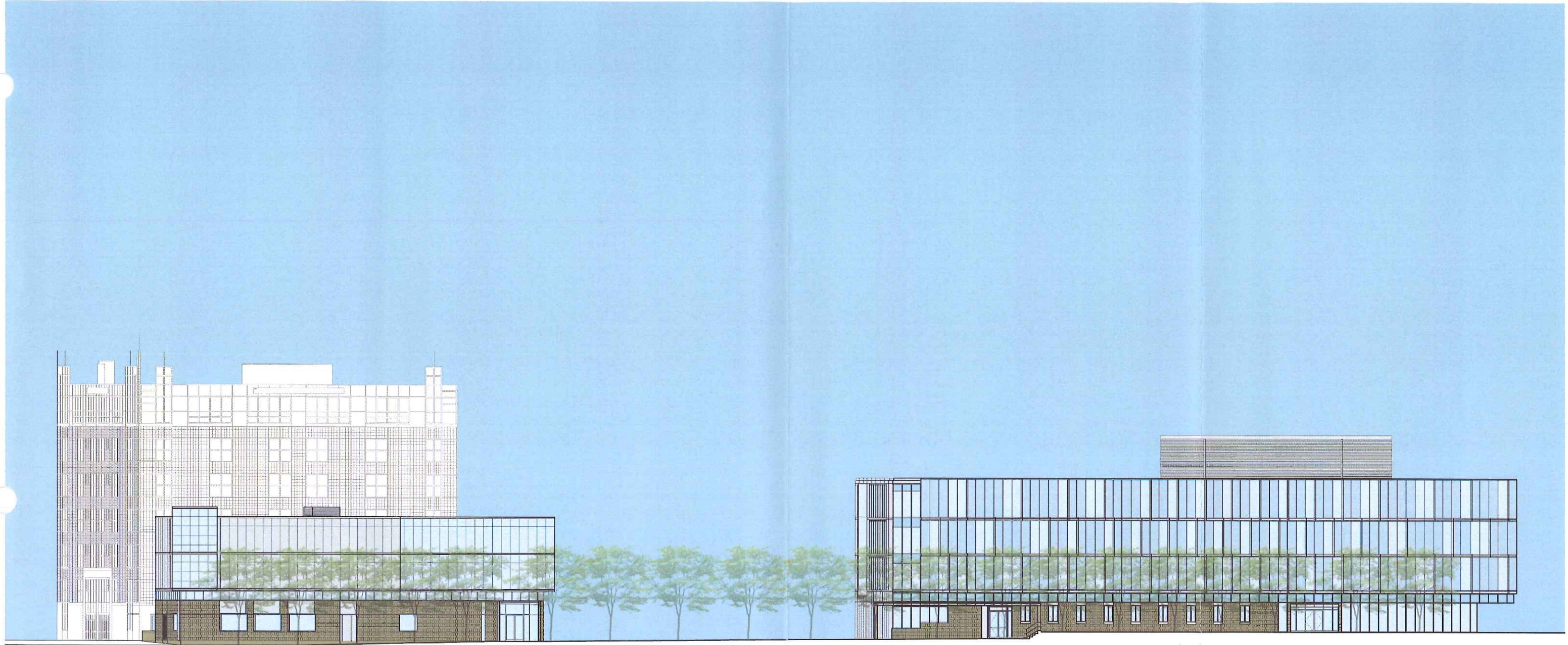


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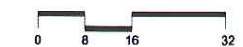


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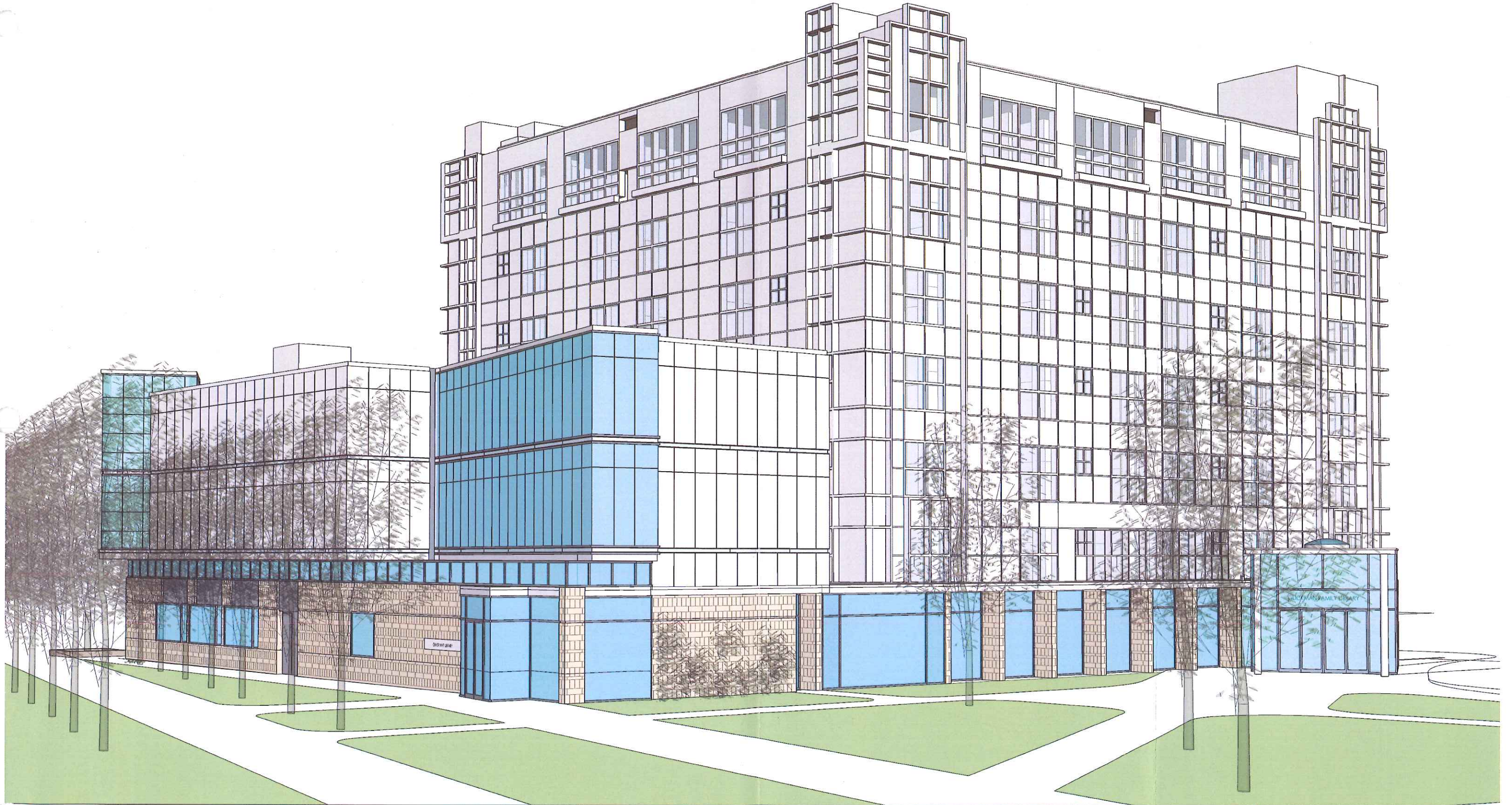




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