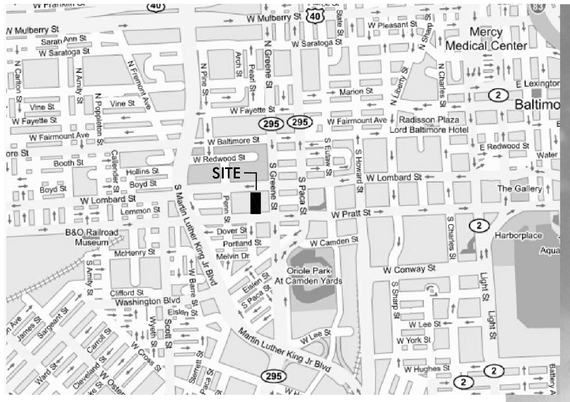


Location Plan

Campus Center

University of Maryland, Baltimore

Baltimore, Maryland

January 29, 2010

Set 1 of 2

RECORD DRAWING

Architect: WTW ARCHITECTS
Timber Court
127 Anderson Street
Pittsburgh, PA 15212-5801
(412) 321-0551
(412) 321-2431 Fax

Associate Architect, Surveyor, Civil & Structural Engineer: WHITNEY BAILEY COX MAGNANI, LLP
849 Fairmont Ave.
Suite 100
Baltimore, MD 21286
(410) 512-4500
(410) 324-4100 Fax

Landscape Architect: FLOURA-TEETER LANDSCAPE ARCHITECTS, INC.
306 W. Franklin St.
Suite 103
Baltimore, MD 21202
(410) 528-8395
(410) 528-8425 Fax

Mechanical, Electrical, Plumbing, Fire Protection Engineer: HENRY ADAMS, LLC
600 Baltimore Ave.
Suite 400
Baltimore, MD 21204-4079
(410) 296-6500
(410) 296-3156 Fax

HVAC Mechanical Systems: MULLINS ENGINEERING CO., INC.
1257 Annapolis Road
Odenton, MD 21113
(410) 519-0800
(410) 672-3977 Fax

Telecom, A/V, Security Systems Design: ALLEN & SHARIFF CORPORATION
7061 Deepage Drive
Second Floor
Columbia, MD 21045
(410) 381-7100
(410) 381-7110 Fax

Interior Designer: PORTNOY LEVINE DESIGN ASSOCIATES
519 North Charles Street
Suite 200
Baltimore, MD 21202
(410) 234-8998
(410) 234-0614 Fax

Geotechnical Engineer: TLB ASSOCIATES
7280 Baltimore Annapolis Blvd.
Glen Burnie, MD 21061
(443) 577-1600
(443) 577-1601 Fax

Food Service Review: PORTER CONSULTING, INC.
1672 Village Green
Crofton, MD 2114-1410
(410) 451-3617
(410) 451-3619 Fax

Pool Consultant: COUNSILMAN- HUNSAKER ASSOCIATES
10733 Sunset Office Dr.
Suite 400
St. Louis, MO 63127
(314) 894-1245
(314) 894-0109 Fax

Elevator Consultant: LERCH, BATES, & ASSOCIATES, INC.
6000 Laurel-Bowie Road
Suite 200
Bowie, MD 20715
(301) 805-7944
(301) 805-8091 Fax

Cost Estimator: SCHARF-GODFREY, INC.
1420 Joh Avenue
Suite A
Baltimore, MD 21227
(410) 247-5092
(410) 247-5093 Fax

Construction Manager: WHITING-TURNER CONTRACTING CO.
300 East Joppa Road
Baltimore, MD 21286
(410) 821-1100
(410) 337-5807 Fax

Acoustical Consultant: THE SEXTANT GROUP
Riverside Commons
730 River Ave.
Pittsburgh, PA 15212
(412) 323-8580
(410) 323-8538 Fax

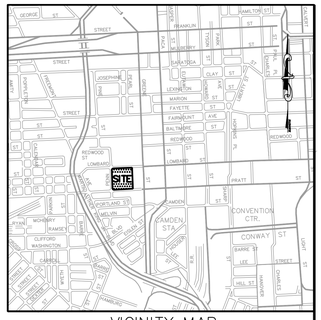
Drawing List

TOTAL DRAWINGS = 230

CS3.1

UMB Project No. 99-311
WTW Project No. 70-4091

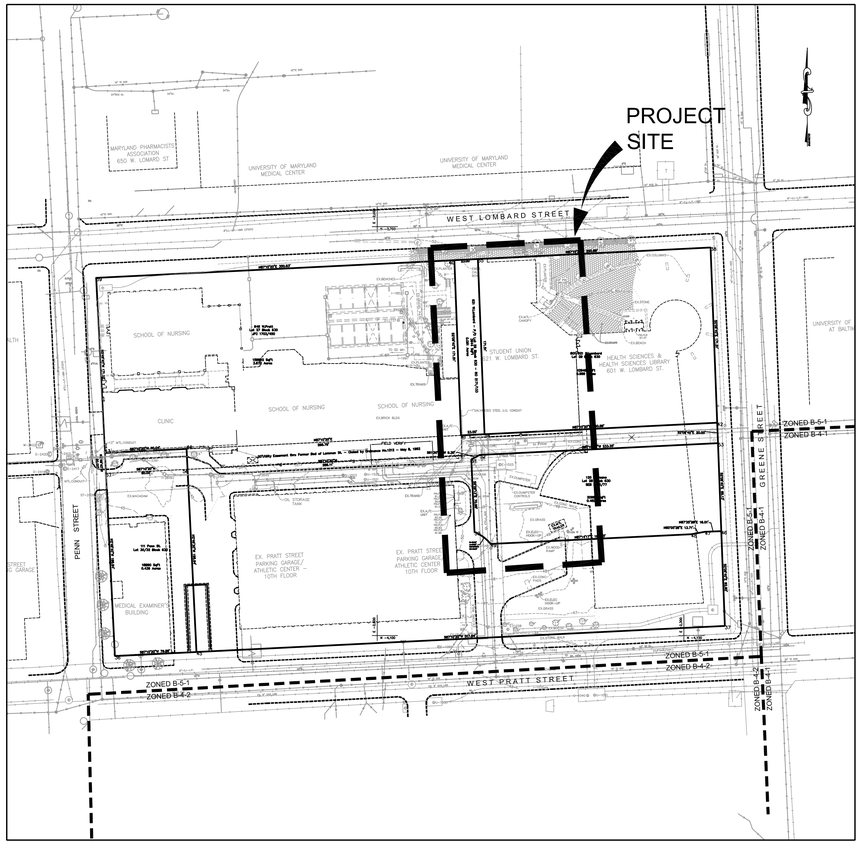
UNIVERSITY OF MARYLAND, BALTIMORE
CAMPUS CENTER



VICINITY MAP
SCALE: 1"=8,333'

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BUILDING	Existing Bldg.	NEW BLDG.
PAVING	Existing Paving	HEAVY / LIGHT
CONCRETE WALK	Ex. Conc. Walk	
SOD		
WALL		
COLUMN		
GAS	T	
GAS	G	
ELECTRIC	E	
CONC. CURB AND GUTTER		
STORM DRAIN	D	
SANITARY	SS	
WATER	W	
STEAM	ST	
VALVE		
HYDRANT		
MANHOLE		
INLET		
STREET LIGHT POLE		
CONTOUR	212	215 / 210
SPOT ELEVATION	×210.00	×210.00
FENCE	X	X
TREES TO REMAIN		
PLANTINGS		
LIMIT OF DISTURBANCE		LOD
BUILDING OVERHANG		
CONSTRUCTION FENCE		



LOCATION MAP
SCALE: 1" = 60'

LEGAL DESCRIPTIONS:

1. WARD 4
   SECTION 8
   BLOCK 630
   LOT 29
   SITE AREA 1.08 AC

   LOT ADDRESS: 621 WEST LOMBARD STREET
   BALTIMORE, MD 21201

INDEX OF DRAWINGS

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)

WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

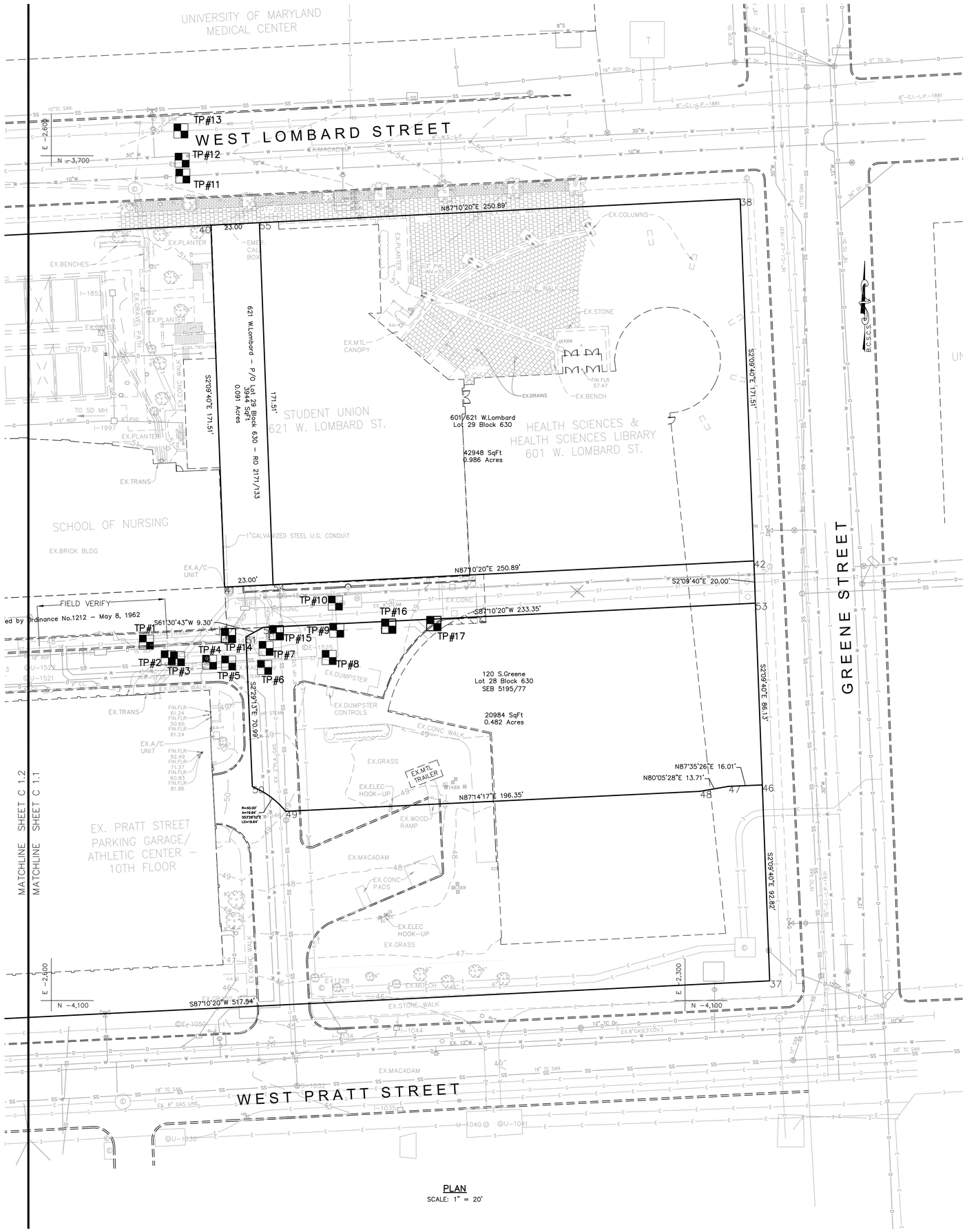
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Title Sheet

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

T 1.1



PLAN
SCALE: 1" = 20'

GENERAL NOTES

1. THIS PLAT IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WHITNEY, BAILEY, COX & MAGNANI, LLC (WBCM) IN OCTOBER, 2005 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.

2. HORIZONTAL COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MERIDIAN OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. TRAVERSE STATIONS:

   PT# 903 N -3,893.2399 E -2,207.1864 MAGNAIL
   PT# 904 N -4,092.2504 E -2,196.7747 PK NAIL

3. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE DATUM OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. BENCHMARKS:

   PT# 903 ELEV.= 53.03 MAGNAIL
   PT# 904 ELEV.= 48.03 PK NAIL

4. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.

5. THE LOCATION AND DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

7. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.

TEST PIT SCHEDULE

No.	UTILITY	EX. ELEV.	SOUTHING	WESTING	DEPTH TO TOP	COMMENTS
TP-1	8" STEAM LINE	48.54	3,930.2870	2,554.9518		
TP-2	8" STEAM LINE/ ELEC. DUCT	47.87	3,937.6885	2,554.6200		
TP-3	ELEC. DUCT/ TELECOM.	47.89	3,938.1264	2,540.2522		
TP-4	8"SAN. SEWER/ 8" STEAM	48.02	3,939.8070	2,525.0674		
TP-5	8" SAN. SEWER/ 8" STEAM	48.11	3,940.1544	2,516.0519		
TP-6	2" GAS	48.31	3,942.2757	2,499.0279		
TP-7	ELEC. DUCT	48.28	3,933.2332	2,498.3057		
TP-8	8" STEAM	48.62	3,937.5510	2,468.4429		
TP-9	8" STEAM/ 8" CHILLER LINE(S)	48.48	2,924.6360	2,464.8451		
TP-10	8" STEAM	48.40	3,911.7636	2,465.5026		
TP-11	10" WATER	52.36	3,709.5909	2,537.7423		NEED FOR TEST PIT TO BE DETERMINED PER COORDINATION W/ BGE
TP-12	30" WATER/ ELEC.	52.64	3,702.0868	2,538.0564		NEED FOR TEST PIT TO BE DETERMINED PER COORDINATION W/ BGE
TP-13	8" GAS	52.17	3,688.2325	2,538.6363		NEED FOR TEST PIT TO BE DETERMINED PER COORDINATION W/ BGE
TP-14	EXIST STORM DRAIN (TBR)	47.93	3,927.1541	2,516.1201		
TP-15	CHILLER LINES	48.05	3,925.8367	2,493.4917		
TP-16	CHILLER LINES	48.70	3,922.7389	2,440.2485		
TP-17	CHILLER LINES	49.27	3,921.4944	2,418.9067		

VICINITY MAP
SCALE: 1"=8,333'

LEGEND

DESCRIPTION	EXISTING
BUILDING	Existing Bldg.
PAVING	Existing Paving
CONCRETE WALK	Ex. Conc. Walk
WALL	
COLUMN	
TELECOMMUNICATION	T
GAS	G
ELECTRIC	E
CONC. CURB AND GUTTER	
STORM DRAIN	D
SANITARY	SS
WATER	W
STEAM	ST
VALVE	
HYDRANT	
MANHOLE	Ⓢ
INLET	
STREET LIGHT POLE	
CONTOUR	212 / 210
SPOT ELEVATION	×210.00
FENCE	X
TREES TO REMAIN	
PLANTINGS	
LIMIT OF DISTURBANCE	LOD
TRAVERSE POINT	△
TEST PIT	TP#

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid
Issued:	May 02, 2007	

Campus Center

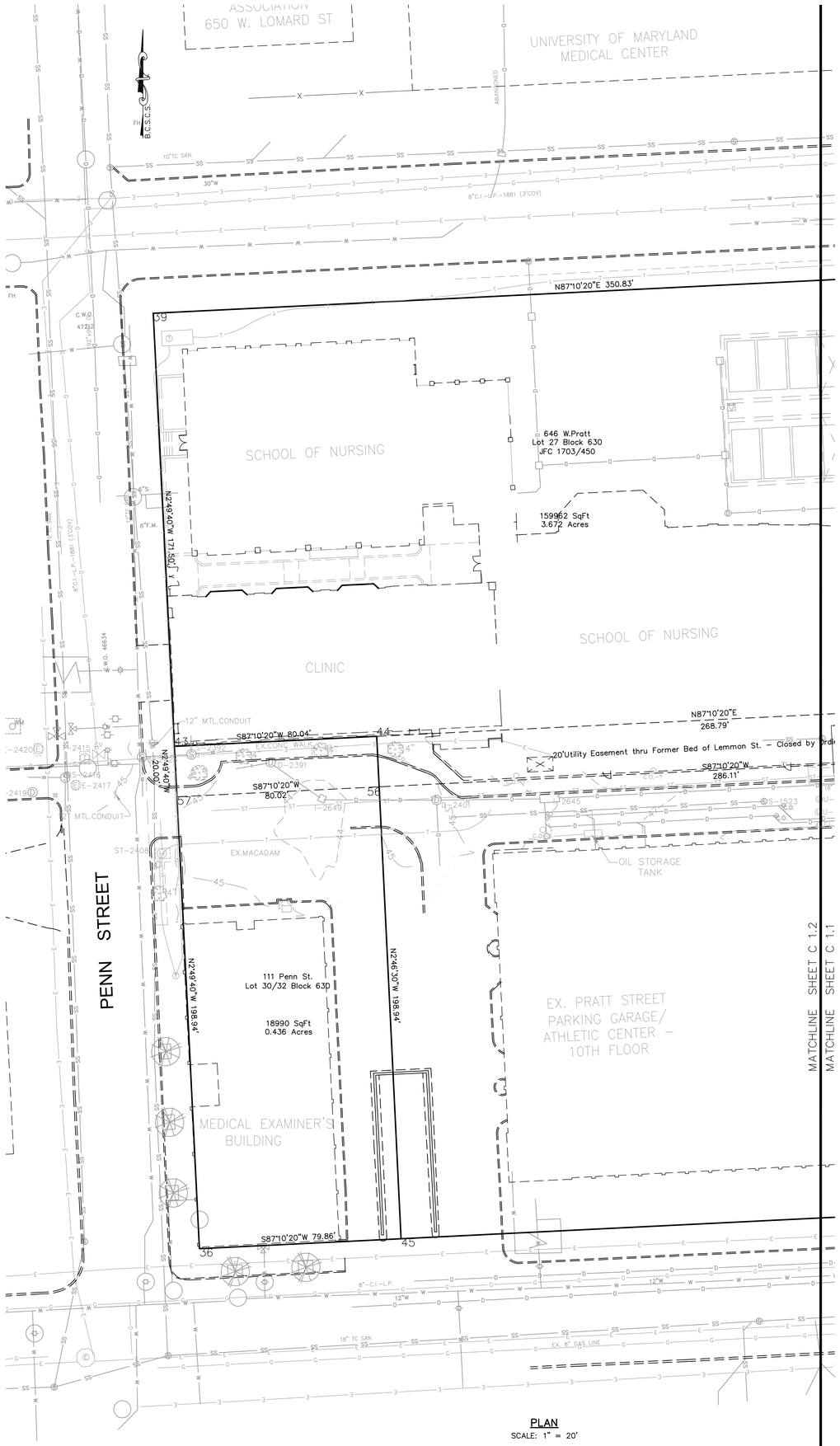
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Existing Conditions Plan & Test Pit Locations

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

C 1.1



PLAN
SCALE: 1" = 20'

GENERAL NOTES

1. THIS PLAT IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WHITNEY, BAILEY, COX & MAGNANI, LLC (WBCM) IN OCTOBER, 2005 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.

2. HORIZONTAL COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MERIDIAN OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. TRAVERSE STATIONS:

   PT# 903 N -3,893.2399 E -2,207.1864 MAGNAIL
   PT# 904 N -4,092.2504 E -2,196.7747 PK NAIL

3. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE DATUM OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. BENCHMARKS:

   PT# 903 ELEV.= 53.03 MAGNAIL
   PT# 904 ELEV.= 48.03 PK NAIL

4. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.

5. THE LOCATION AND DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

7. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.

VICINITY MAP
SCALE: 1"=8,333'

LEGEND

DESCRIPTION	EXISTING
BUILDING	Existing Bldg.
PAVING	Existing Paving
CONCRETE WALK	Ex. Conc. Walk
WALL	
COLUMN	
TELECOMMUNICATION	T
GAS	G
ELECTRIC	E
CONC. CURB AND GUTTER	
STORM DRAIN	D
SANITARY	SS
WATER	W
STEAM	ST
VALVE	
HYDRANT	
MANHOLE	S
INLET	
STREET LIGHT POLE	
CONTOUR	212 / 210
SPOT ELEVATION	×210.00
FENCE	X
TREES TO REMAIN	
PLANTINGS	
LIMIT OF DISTURBANCE	LOD
TRAVERSE POINT	
TEST PIT	TP#

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08
IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid
Issued:	May 02, 2007	

Campus Center

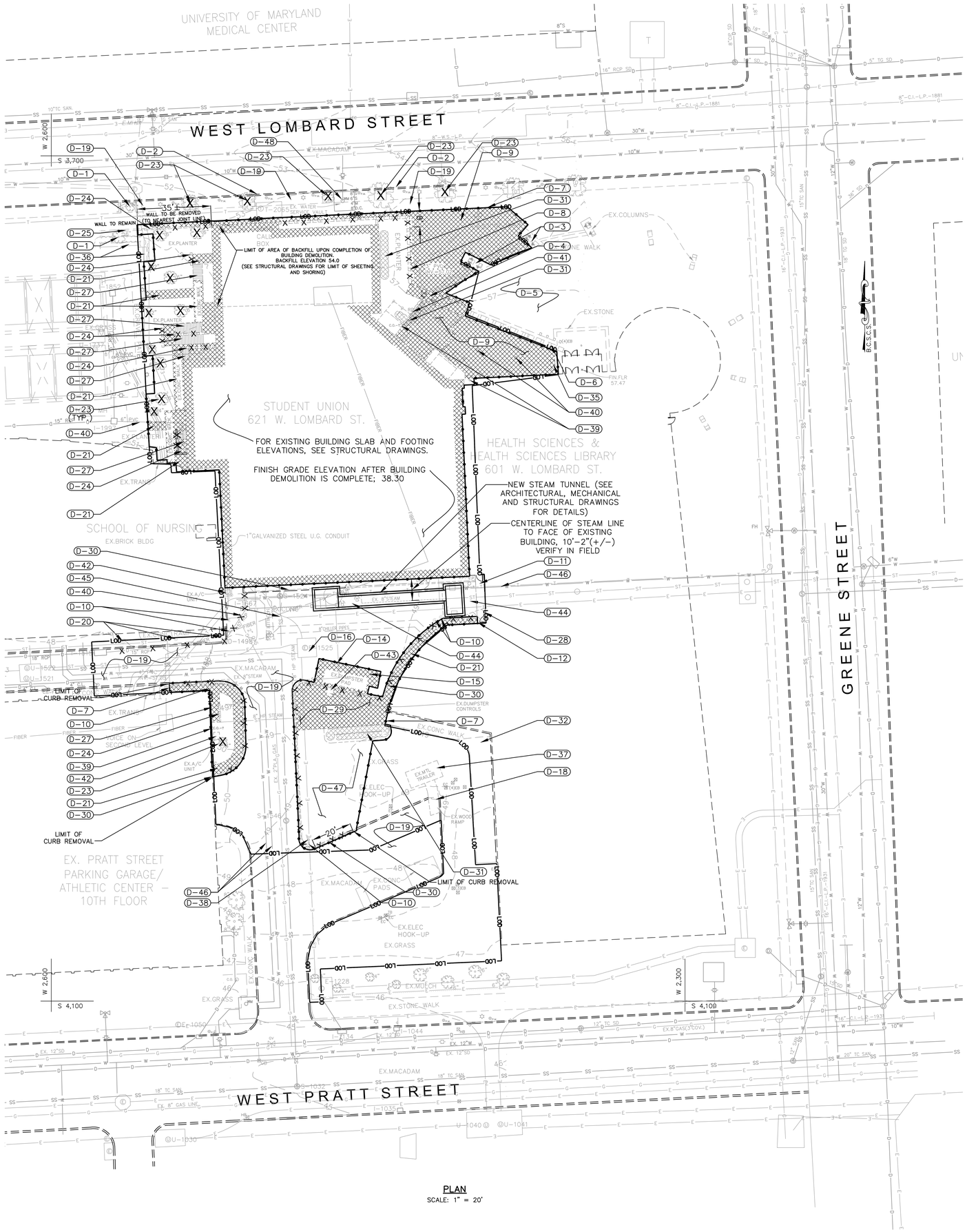
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Existing Conditions Plan & Test Pit Locations

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

C 1.2



PLAN
SCALE: 1" = 20'

DEMOLITION NOTES:

KEY	DESCRIPTION
D-1	EXISTING TREES TO REMAIN
D-2	EXISTING CURB TO REMAIN
D-3	EXISTING COLUMN TO REMAIN & BE PROTECTED
D-4	EXISTING COLUMN TO BE REMOVED
D-5	EXISTING PAVERS TO REMAIN
D-6	EXISTING PIER TO REMAIN & BE PROTECTED
D-7	SAW CUT AND LIMIT OF PAVEMENT TO BE REMOVED.
D-8	EXISTING LOW WALL TO BE REMOVED
D-9	EXISTING PAVERS AND CONCRETE TO BE REMOVED. (NOTE: SALVAGE ALL DARK GRANITE PAVERS)
D-10	EXISTING BOLLARDS TO BE REMOVED
D-11	EXISTING CONCRETE STEPS TO REMAIN & BE PROTECTED
D-12	EXISTING LOUVER'S TO REMAIN – DO NOT BLOCK ACCESS (SEE MECHANICAL & PLUMBING SITE DEMO DRAWING)
D-13	**N/A**
D-14	EXISTING CONCRETE PAD TO BE REMOVED
D-15	EXISTING DUMPSTER TO BE RELOCATED AS DIRECTED BY OWNER DISCONNECT POWER PRIOR TO REMOVAL.SEE SHEET A1.6 FOR LOCATION.
D-16	EXISTING ELECTRIC & VAULT TO REMAIN & BE PROTECTED WITH STEEL PLATE (SEE ELECTRICAL DRAWINGS)
D-17	**N/A**
D-18	EXISTING WOOD RAMP TO BE REMOVED BY OWNER
D-19	EXISTING PAVING TO REMAIN
D-20	EXISTING BOLLARDS TO REMAIN
D-21	EXISTING CONCRETE WALK TO BE REMOVED
D-22	**N/A**
D-23	EXISTING TREE TO BE REMOVED
D-24	EXISTING SITE WALL TO BE REMOVED TO BOTTOM OF FOOTING
D-25	EXISTING SITE WALL TO REMAIN
D-26	**N/A**
D-27	EXISTING STAIRS AND FOOTING TO BE REMOVED
D-28	EXISTING CANOPY TO BE REMOVED (SEE ARCHITECTURAL DRAWINGS)
D-29	EXISTING CONCRETE TO BE REMOVED
D-30	EXISTING CURB TO BE REMOVED
D-31	EXISTING PLANTINGS TO BE REMOVED
D-32	EXISTING CONCRETE WALK TO REMAIN
D-33	**N/A**
D-34	**N/A**
D-35	EXISTING BENCH TO BE REMOVED AND SALVAGED FOR OWNER
D-36	EXISTING BENCH TO BE REMOVED AND SALVAGED
D-37	EXISTING MTL TRAILER TO BE REMOVED BY OWNER
D-38	EXISTING SIGN TO BE REMOVED AND SALVAGED
D-39	EXISTING CLEAN OUT TO BE REMOVED, CAP THE REMAINING LINE IN PLACE.
D-40	EXISTING INLETS & DRAINS TO BE REMOVED, CAP REMAINING LINES IN PLACE.
D-41	EXISTING ROOF DRAIN AND 3"PVC TO BE REMOVED AND CAPPED AT LIMIT OF DISTURBANCE
D-42	EXISTING A/C UNIT TO BE REMOVED (SEE MECHANICAL & PLUMBING SITE DEMO DRAWING)
D-43	EXISTING DUMPSTER CONTROLS TO BE REMOVED (SEE ELECTRICAL DRAWINGS)
D-44	EXISTING STEAM LINE & STRUCTURE TO BE REPLACED, SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR DETAILS
D-45	EXISTING SANITARY LINE TO BE REMOVED
D-46	EXISTING WATER LINE TO REMAIN
D-47	REMOVE EXISTING TURF & STRIP TOPSOIL
D-48	REMOVE EXISTING FIRE & WATER SERVICE PER BALTIMORE CITY DPW STANDARD PROCEDURES & TURN METERS OVER TO CITY

ENGINEER'S GENERAL NOTES

1. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE PUBLIC WORKS DEVELOPER'S AGREEMENT AND THE BOOK OF STANDARDS FOR BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS.

2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES CAUSED AS A RESULT OF HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES TO REMAIN.

3. BEFORE BEGINNING CONSTRUCTION, CONTRACTOR SHALL PERFORM TEST PIT(S) TO VERIFY LOCATION OF ALL EXISTING UTILITIES AND CLEARANCE FROM NEW WORK.

4. TEST PIT ALL UTILITY CROSSINGS INCLUDING TIE-IN POINTS PRIOR TO BEGINNING ANY NEW WORK. ANY DEVIATIONS IN DESIGN CAUSED BY THE TEST PIT INFORMATION WILL REQUIRE RED LINE REVISIONS SUBMITTED TO THE WATER AND WASTEWATER ENGINEERING DIVISION FOR APPROVAL.

5. NOTIFY WASTEWATER MAINTENANCE DIVISION (410-396-0230) AT LEAST TWO (2) WEEKS PRIOR TO START-UP OF CONSTRUCTION.

6. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING WATER, GAS AND ELECTRIC FACILITIES.

7. FULL TRENCH COMPACTION IS REQUIRED THROUGHOUT. FOR REPAVING TRENCH OPENING, SEE BALTIMORE CITY DPW STANDARD DETAIL B.C. 576.20.

8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.

9. FOR WORK IN THE BALTIMORE CITY RIGHT-OF-WAY THE CONTRACTOR MUST NOTIFY WATER MAINTENANCE DIVISION (410-396-7870) AT LEAST TWO (2) WEEKS PRIOR TO START-UP OF CONSTRUCTION ON WATER SERVICES. FOR SANITARY, CONDUIT, AND STORM WATER SERVICES CONTACT THE PERMIT INSPECTION SECTION AT 410-396-4840. THE CONTRACTOR MUST RECEIVE WRITTEN NOTICE TO PROCEED FROM THE WATER AND WASTEWATER DIVISION OR THE PERMIT INSPECTION SECTION PRIOR TO PERFORMING ANY WORK.

10. SERVICES MUST BE CAPPED AND THE COMPLETED SERVICES WILL BE VISUALLY INSPECTED FOR LEAKS.

11. ALL SERVICES TO BE ABANDONED MUST BE ABANDONED AT THE MAINS, AND ALL METERS MUST BE RETURNED TO THE CITY.

12. ALL ELEVATIONS BASED UPON BALTIMORE CITY DATUM.

13. ALL WORK UNDER THIS CONTRACT WILL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH MDE
PERMIT NO. ____________________.

14. UNLESS OTHERWISE NOTED, THE BIDLINE FOR EXCAVATION WILL BE SUBGRADE UNDER PROPOSED ROADS, ESTABLISHED GRADE UNDER TURF AREAS, AND EXISTING GRADE ALONG EXISTING PAVEMENT.

15. THE CONTRACTOR WILL MAINTAIN, REPAIR AND OR REPLACE ANY EXISTING SEDIMENT CONTROL DEVICES, ENCOUNTERED AND DISTURBED DURING THE COURSE OF CONSTRUCTION UNDER THIS CONTRACT AND AS SHOWN ON THE APPROVED SEDIMENT CONTROL PLAN INCLUDED AS PART OF THE CONTRACT DOCUMENTS. ALL SUCH DISTURBED DEVICES WILL BE REPAIRED OR REPLACED BEFORE LEAVING THE WORK SITE AT THE END OF EACH WORKING DAY. THE COST OF PERFORMING ALL SUCH WORK, INCLUDING MATERIAL, WILL BE PAID FOR BY LUMP SUM BID FOR MAINTENANCE AND REPAIR OF SEDIMENT CONTROL DEVICES.

16. THE CONTRACTOR IS DIRECTED TO PROTECT AND MAINTAIN SERVICE TO EXISTING TRAFFIC POLES SIGNAL EQUIPMENT AND SIGNAL CONTROL CABLES DURING THE ROADWAY AND UTILITY CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE TO REINSTALL THE SIGNAL FACILITIES HE/SHE DAMAGES AT HIS/HER OWN EXPENSE. ANY TEMPORARY OR PERMANENT WORK REQUIRED FOR THE SIGNAL OR CONDUIT MUST BE SUBMITTED FOR APPROVAL TO THE DEPARTMENT OF TRANSPORTATION.

17. PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL CONTACT THE PARKING AUTHORITY OF BALTIMORE CITY (PABC) AT 443-573-2800 AND THE OFFICE OF TRANSPORTATION METER SHOP AT 410-396-7576 TO VERIFY THE LOCATIONS OF EXISTING PARKING METERS. PLEASE CONTACT THE PABC AND THE METER SHOP 72 HOURS IN ADVANCE FOR PARKING METER HEADS REMOVAL (METER SHOP SHALL REMOVE ALL PARKING METER HEADS). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THE EXISTING POST.

VICINITY MAP
SCALE: 1"=8,333'

LEGEND

DESCRIPTION	EXISTING	DEMO
BUILDING	Existing Bldg.	▨
PAVING	Existing Paving	▨
CONCRETE WALK	Ex. Conc. Walk	▨
WALL	[I]I[I]	X X X
COLUMN	○	X
GAS	—T—	
GAS	—G—	
ELECTRIC	—E—	
CONC. CURB AND GUTTER	═ ═ ═	X X X
STORM DRAIN	—D—	X D X
SANITARY	—SS—	
WATER	—W—	
STEAM	—ST—	
VALVE		
HYDRANT		
MANHOLE	Ⓢ	
INLET	▭	X
STREET LIGHT POLE	☼	
CONTOUR	-----212---- — — 210 — —	
SPOT ELEVATION	×210.00	
FENCE	—X—	
TREES TO REMAIN		
TREES TO BE REMOVED		X
PLANTINGS		▨
LIMIT OF DISTURBANCE	—LOD—	
TRAVERSE POINT	△	
LIMIT OF DEMOLITION (SAWCUT AS REQUIRED)		—●—●—●—

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)

WHITNEY, BAILEY, COX &
MAGNANI, LLC

Rev.	Date:	Comment:
2	01/29/10	Record Drawing
1	04/09/07	Bulletin #1
0	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

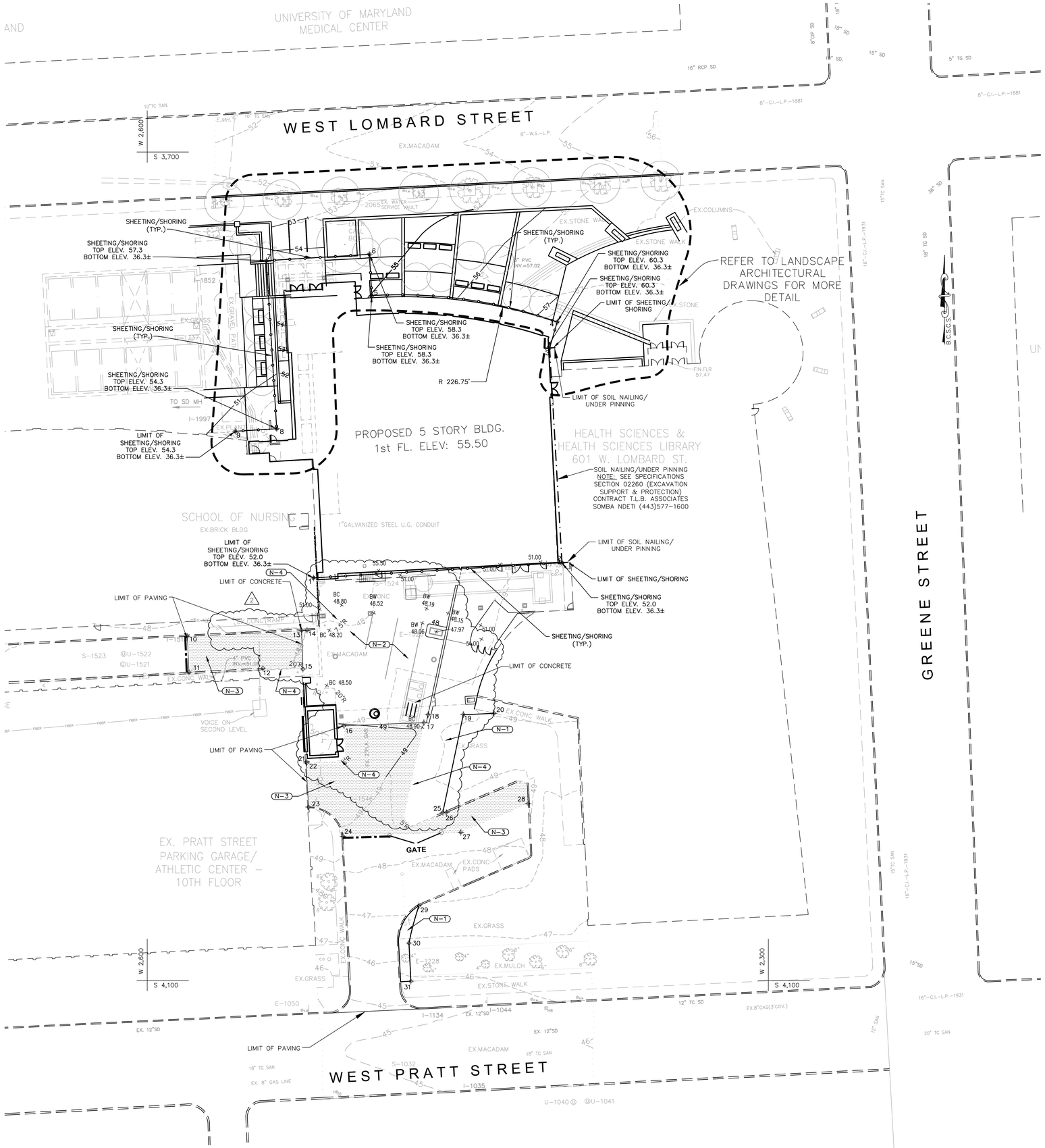
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Site Demolition Plan

100%
CONSTRUCTION
DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
REV.#

C 1.3



PLAN
SCALE: 1" = 20'

VICINITY MAP
SCALE: 1"=8,333'

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BUILDING	Existing Bldg.	NEW BLDG.
PAVING	Existing Paving	HEAVY / LIGHT
CONCRETE PAVING	Ex. Conc. Paving	
CONCRETE WALK	Ex. Conc. Walk	
SOD		
WALL		
COLUMN		
GAS	T	
GAS	G	
ELECTRIC	E	
CONC. CURB AND GUTTER		
STORM DRAIN	D	
SANITARY	SS	
WATER	W	
STEAM	ST	
VALVE		
HYDRANT		
MANHOLE	S	
INLET		
STREET LIGHT POLE		
CONTOUR	212	215 / 210
SPOT ELEVATION	×210.00	×210.00
FENCE	X	X
TREES TO REMAIN		+
PLANTINGS		
LIMIT OF DISTURBANCE		LOD
BUILDING OVERHANG		
CONSTRUCTION FENCE		
SHEET & SHORING		
UNDERPINNING		

CONSTRUCTION NOTES

(N-1) NEW CONCRETE SIDEWALK, SEE DETAIL #1 ON DRAWING C-2.2.

(N-2) NEW CONCRETE PAVING, SEE DETAIL #2 ON DRAWING C-2.2.
* CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF JOINT LAYOUT TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

(N-3) NEW HEAVY DUTY BITUMINOUS PAVING, SEE DETAIL #7 ON DRAWING C-2.2.

(N-4) NEW STANDARD TYPE A CURB, SEE DETAIL #8 ON DRAWING C-2.2.

GEOMETRY POINTS

No.	SOUTHING	WESTING	DESCRIPTION
1	3905.63	2519.67	LIMIT OF SHEET/SHORING
2	3898.24	2399.75	LIMIT OF SHEET/SHORING
3	3794.60	2405.65	LIMIT OF SHEET/SHORING & UNDERPINNING
4	3762.01	2401.98	CORNER OF SHEET/SHORING
5	3769.29	2491.49	CORNER OF SHEET/SHORING
6	3749.39	2492.72	CORNER OF SHEET/SHORING
7	3752.45	2542.48	CORNER OF SHEET/SHORING
8	3833.58	2537.45	CORNER OF SHEET/SHORING
9	3834.81	2557.44	LIMIT OF SHEET/SHORING
10	3933.81	2580.79	LIMIT OF PAVEMENT
11	3951.14	2579.83	LIMIT OF PAVEMENT
12	3949.23	2544.12	LIMIT OF CURB
13	3931.03	2525.48	LIMIT OF PAVEMENT
14	3930.89	2522.82	LIMIT OF CURB
15	3949.61	2524.77	LIMIT OF PAVEMENT
16	3977.02	2504.98	LIMIT OF PAVEMENT
17	3975.49	2466.37	LIMIT OF PAVEMENT
18	3971.63	2464.35	LIMIT OF CURB
19	3971.57	2447.32	LIMIT OF SIDEWALK
20	3970.97	2432.44	LIMIT OF SIDEWALK
21	3994.29	2523.04	LIMIT OF CURB
22	3994.98	2523.00	LIMIT OF PAVEMENT
23	4016.25	2522.09	LIMIT OF PAVEMENT
24	4030.43	2505.45	LIMIT OF PAVEMENT
25	4018.84	2457.23	LIMIT OF SIDEWALK
26	4018.91	2455.52	LIMIT OF CURB
27	4028.46	2448.51	LIMIT OF PAVEMENT
28	4014.55	2416.00	LIMIT OF PAVEMENT
29	4063.88	2468.77	LIMIT OF SIDEWALK
30	4081.97	2473.58	LIMIT OF SIDEWALK
31	4100.37	2472.64	LIMIT OF SIDEWALK
32	3930.39	2513.41	PC OF CURB
33	3922.50	2506.32	PT OF CURB
34	3948.59	2532.23	PC OF CURB
35	3952.47	2519.28	PT OF CURB
36	3959.10	2511.79	PC OF CURB
37	3972.83	2505.21	PT OF CURB
38	3968.89	2504.30	PC OF CURB
39	3964.16	2509.01	PT OF CURB
40	4018.92	2475.63	PC OF CURB
41	4024.56	2468.79	PT OF CURB

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

REFERENCE NOTE:

1. SEE SHEET C 1.1 FOR GENERAL NOTES

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)

WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
4	01/29/07	Record Drawing
3	04/09/07	Bulletin #1
2	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

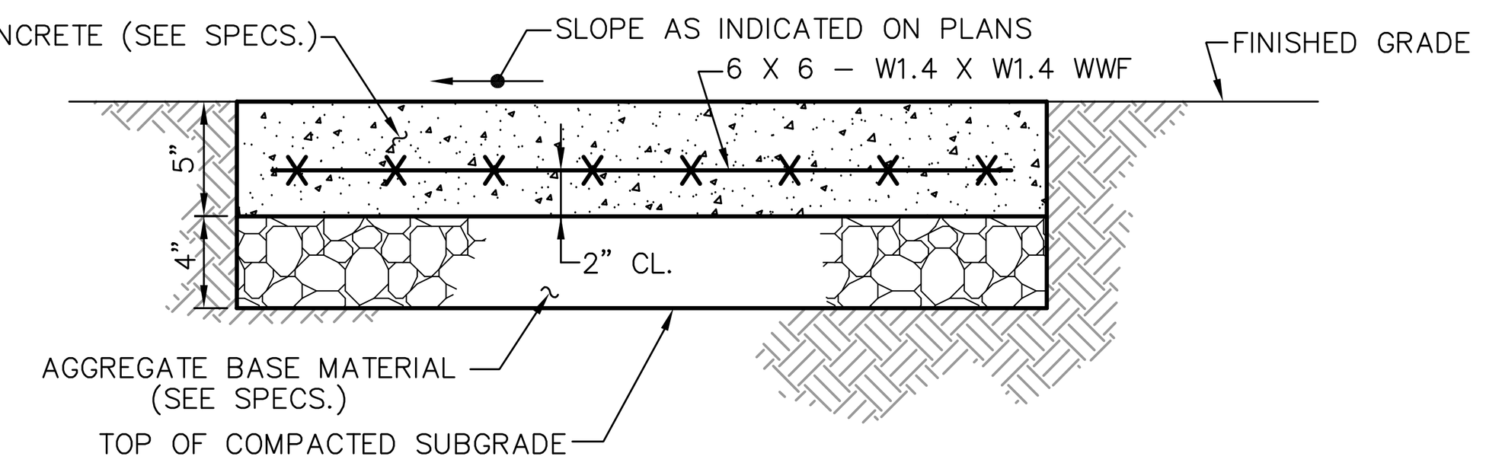
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Site & Grading Plan

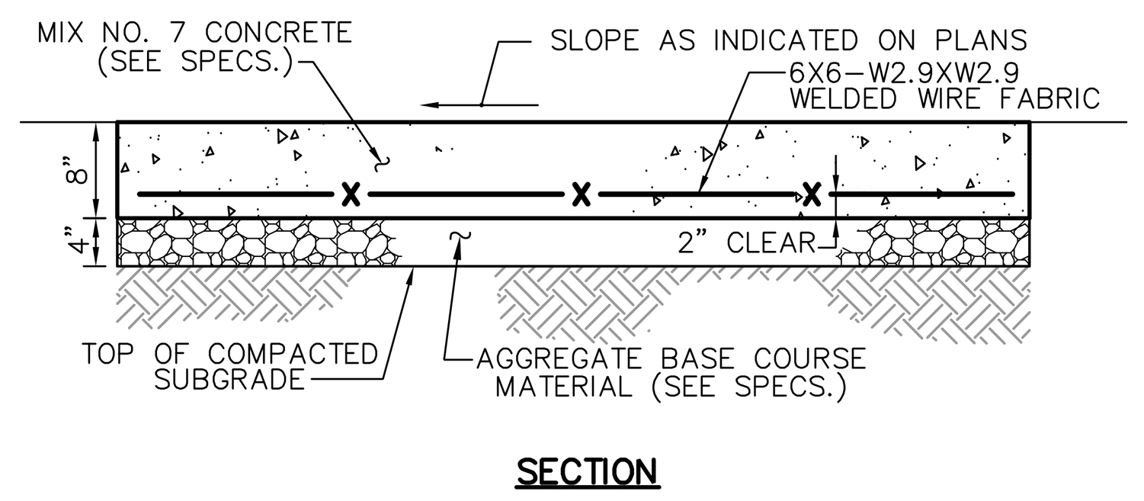
100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

C 2.1

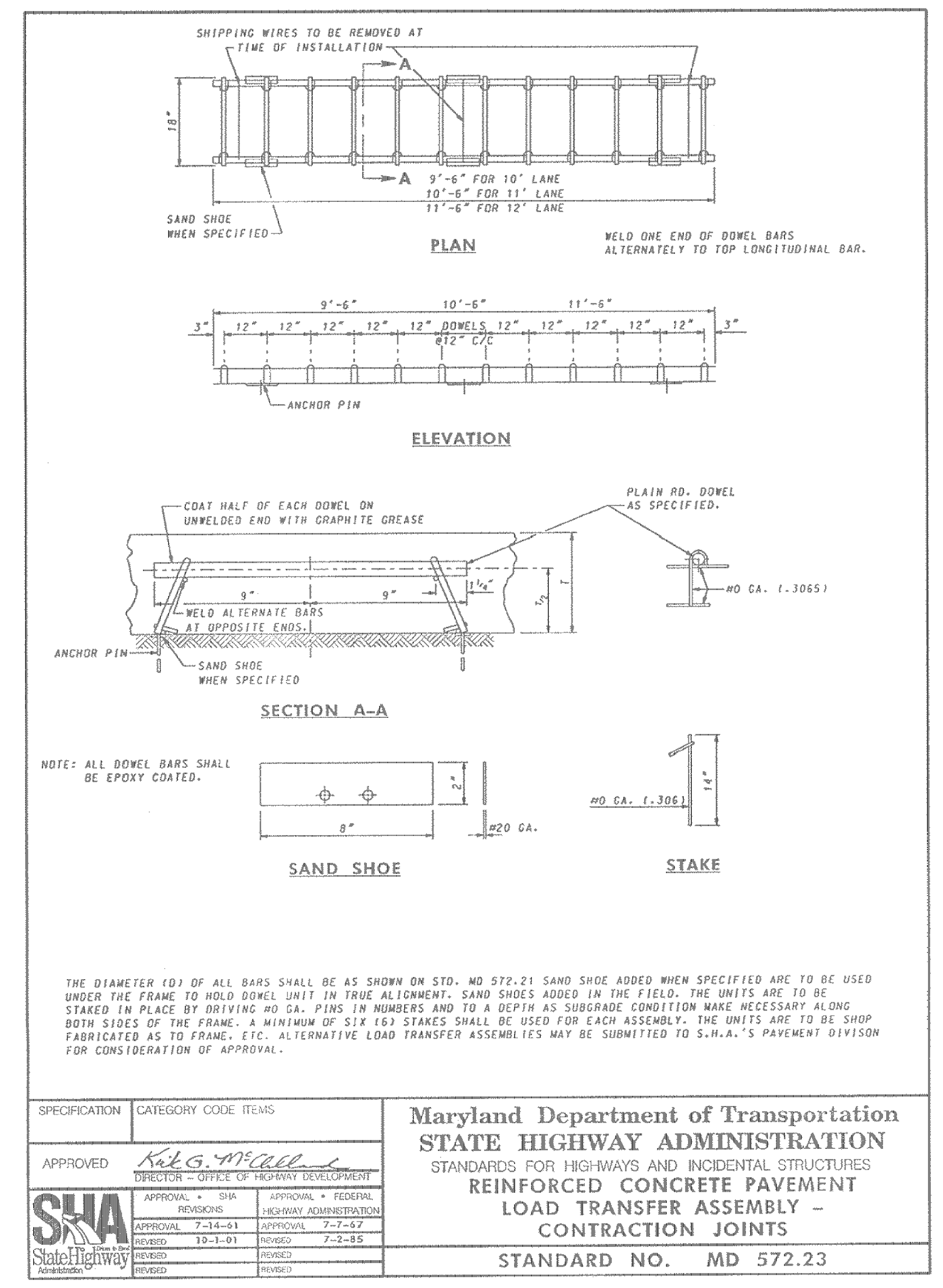


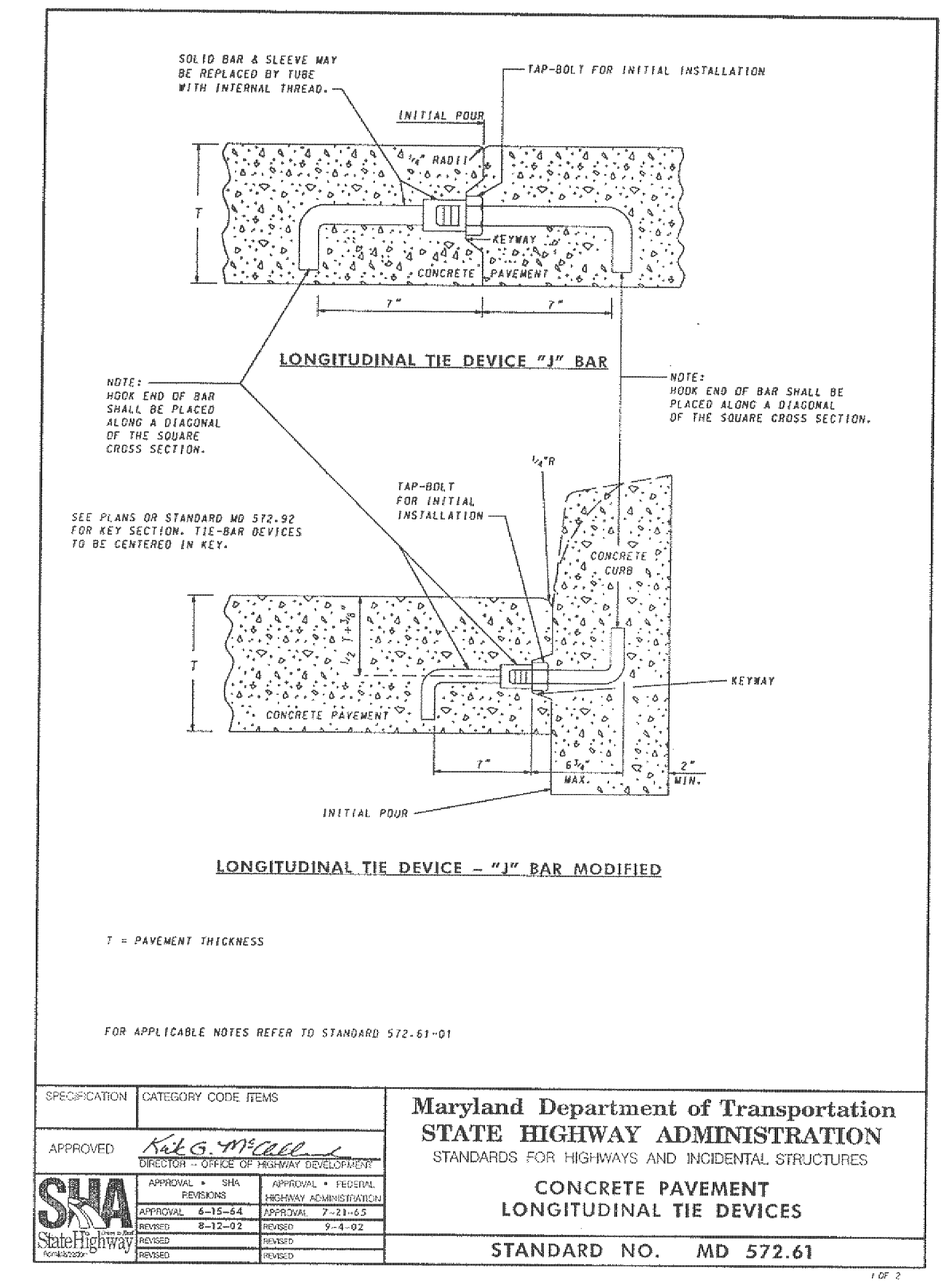
NOTES:
1. 1/2" PREMOLDED EXPANSION JOINT MATERIAL TO BE PLACED WHERE WALKS ABUT CURBS, STEPS, BUILDINGS, OTHER WALKS, ETC. AND AT A MAXIMUM OF 20' INTERVALS ALONG THE WALK.
2. SCORING SHALL BE PROVIDED AT 4' ON CENTER FOR 4' & 8' WALKS, 5' ON CENTER FOR 5' & 10' WALKS, AND 6' ON CENTER FOR 6' AND LARGER NOT PREVIOUSLY MENTIONED.



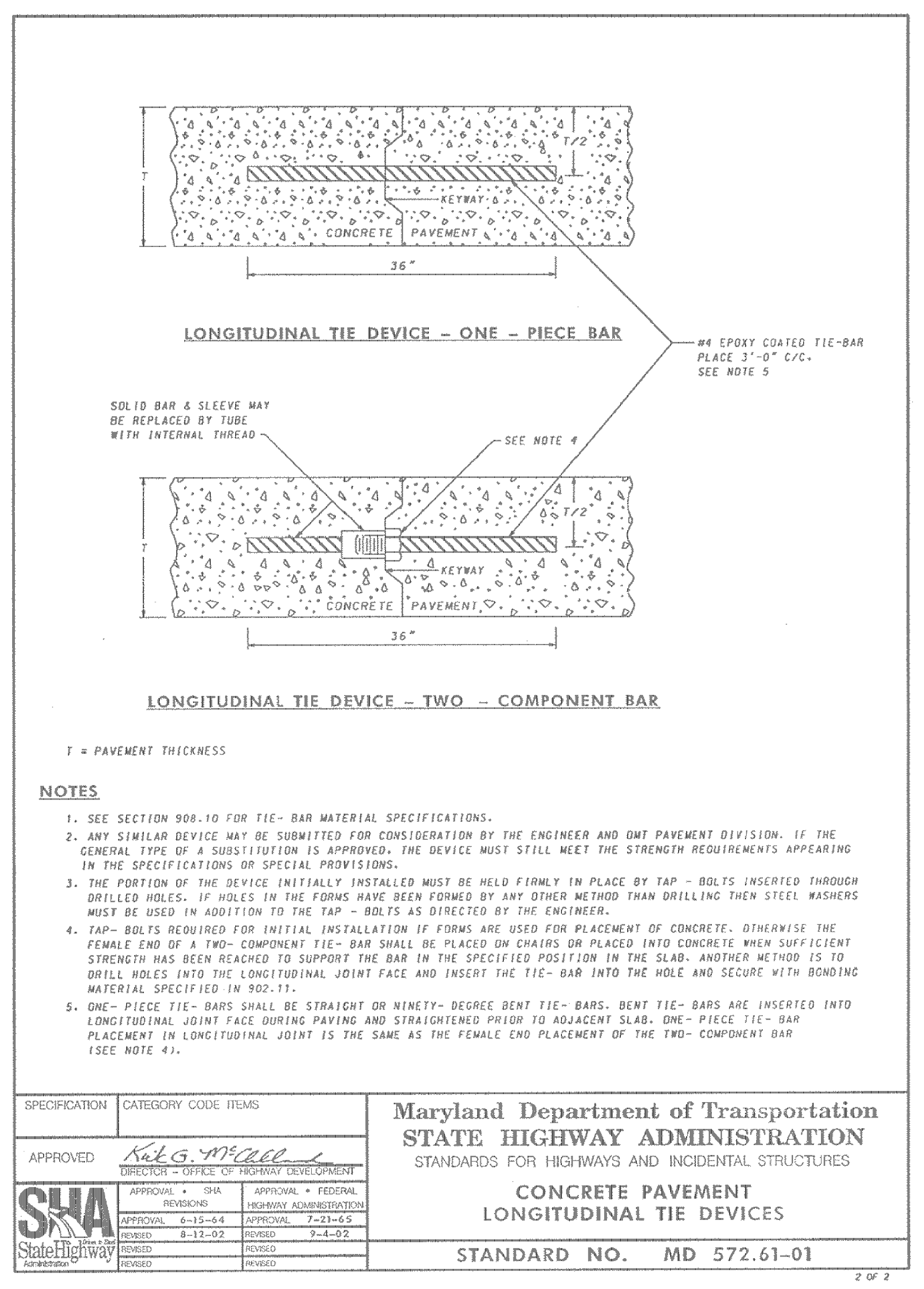
SECTION

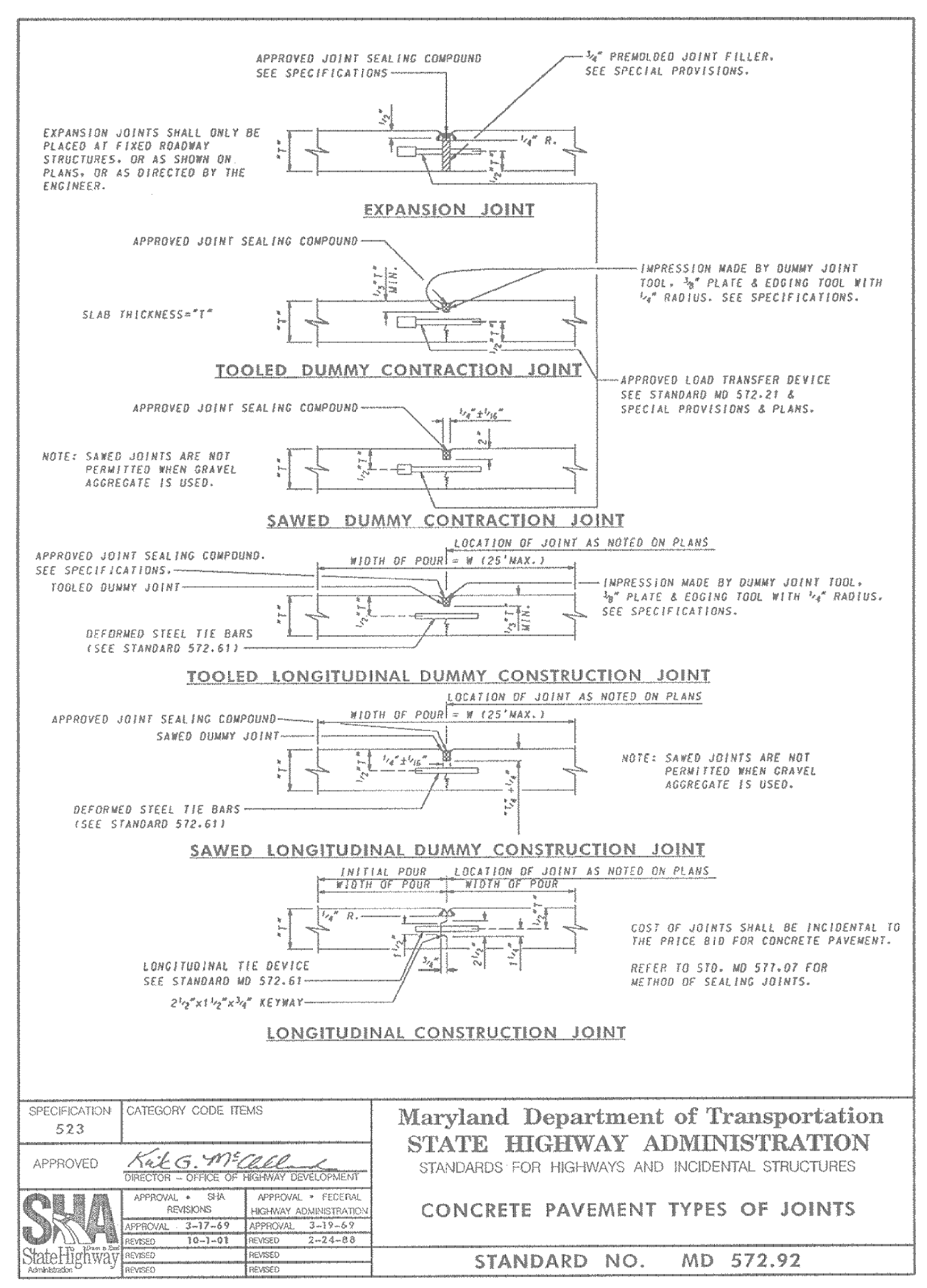
NOTE:
1. 1/2" PREMOLDED EXPANSION JOINT MATERIAL TO BE PLACED WHERE CONCRETE PAVING ABUTS CURBS, WALKS, STEPS, BUILDINGS, ETC. AND AT MAXIMUM 30' INTERVALS.
2. CONCRETE DOOR PAD DIMENSIONS: 10' W x 6' D
3. FOR DETAILS OF PAVEMENT LOAD TRANSFER ASSEMBLY CONNECTOR JOINTS, CONCRETE PAVEMENT LONGITUDINAL TIE DEVICES AND CONCRETE PAVEMENT TYPE OF JOINTS, SEE DETAIL NO. 3, 4, 5, AND 6 ON THIS SHEET.

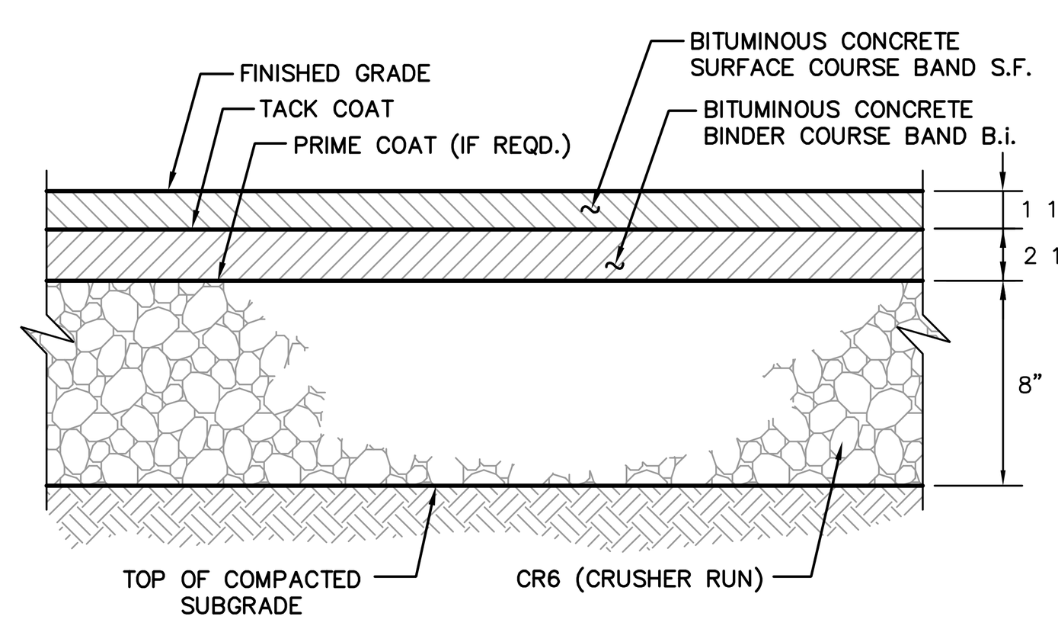


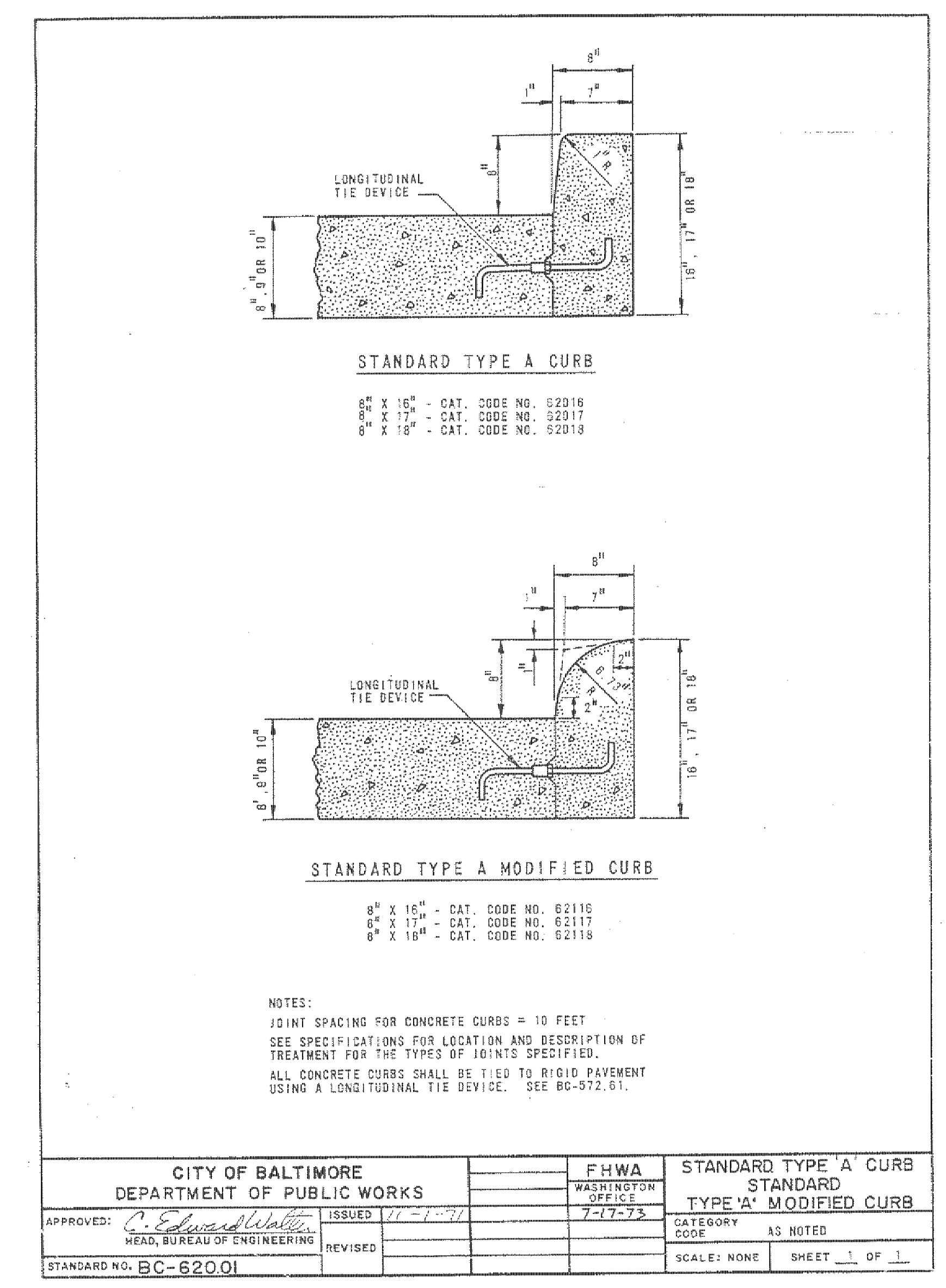


1	CONCRETE WALK	NOT TO SCALE
2	CONCRETE PAVING	NOT TO SCALE
3	REINFORCED CONCRETE PAVEMENT	NOT TO SCALE
4	CONCRETE PAVEMENT LONG. TIE DEVICES	NOT TO SCALE









5	CONCRETE PAVEMENT LONG. TIE DEVICES	NOT TO SCALE
6	CONCRETE PAVEMENT TYPES OF LOINTS	NOT TO SCALE
7	HEAVY DUTY BITUMINOUS PAVING	NOT TO SCALE
8	STANDARD TYPE 'A' CURB	NOT TO SCALE

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
2	01/29/10 / 05/02/07	Record Drawing / Bulletin #1a
1	04/09/07	Bulletin #1
0	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Site Details

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

 REV.#

C 2.2

PLAN
SCALE: 1" = 20'

NOTE: FOR PLAN ENLARGEMENT SEE DRAWING C–3.2

STORM DRAIN STRUCTURE SCHEDULE							
STRUCTURE ID	STRUCTURE TYPE	DETAIL REFERENCE #	COORDINATES		TOP RIM/GRATE	INVERT IN	INVERT OUT
			SOUTHING	WESTING			
I-1	New Inlet	MD SHA STD. NO. MD-379.01	3931.6609	2460.4792	47.97	46.67	46.47
SF-1	New Sand Filter	SEE SAND FILTER DETAIL ON SHEET C 3.2	3950.6093	2468.7309	48.36	45.63	40.80
MH-1	New SD Manhole	MD SHA STD. NO. MD-383.00	3945.7832	2490.4688	48.55	40.90(E)	40.70 (W)
						40.70 (SE)	
MH-2	New SD Manhole	SEE FLOW SPLITTER MANHOLE DETAIL ON SHEET C 3.2	3945.0582	2467.4978	48.23	46.00(N)	45.65 (S)
							45.82 (W)
CO-1	New Clean Out	SEE DETAIL 4 ON SHEET C 3.2	3969.3057	2477.7464	48.79		40.82
CO-2	New Clean Out	SEE DETAIL 4 ON SHEET C 3.2	3910.3111	2439.1399	51.00		46.97
EX I-1515	Existing Inlet				47.35	40.26	40.06

SANITARY SEWER STRUCTURE SCHEDULE							
STRUCTURE ID	STRUCTURE TYPE	DETAIL REFERENCE #	COORDINATES		TOP RIM/GRATE	INVERT IN	INVERT OUT
			SOUTHING	WESTING			
C.O.-1	New Clean Out	SEE DETAIL, THIS SHEET	3908.5737	2500.0503			
SSMH -1	New Sanitary Manhole	MD SHA STD. NO. MD-383.01	3938.2679	2497.9472	47.98	37.41	37.31
SSMH -2	New Sanitary Manhole	MD SHA STD. NO. MD-383.01	3954.3094	2490.4807	48.10	37.16	37.06
S-1546	Existing Sanitary Manhole				49.09	34.86	34.68

STANDARD CLEANOUT

NOT TO SCALE

NOTES REGARDING PIPE AND FITTING MATERIALS:
1. PVC ASTM D2665 DWV PIPE AND PVC ASTM D 1785 SCH 40 PIPE HAVE COMPATIBLE OUTSIDE DIAMETERS.
2. STORM DRAIN CLEANOUTS: USE PVC ASTM D 1785 SCH 40 PIPE OR AS SPECIFIED IN LOCAL PLUMBING CODE.

REFERENCE NOTE:
1. FOR LEGEND, AND VICINITY MAP, SEE SHEET T 1.1
2. FOR GENERAL NOTES, SEE SHEET C 2.1

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512–4500
(410) 324–4100 (FAX)

WHITNEY, BAILEY, COX &
MAGNANI, LLC

Rev.	Date:	Comment:
2	01/29/10	Record Drawing
1	04/09/07	Bulletin #1
0	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

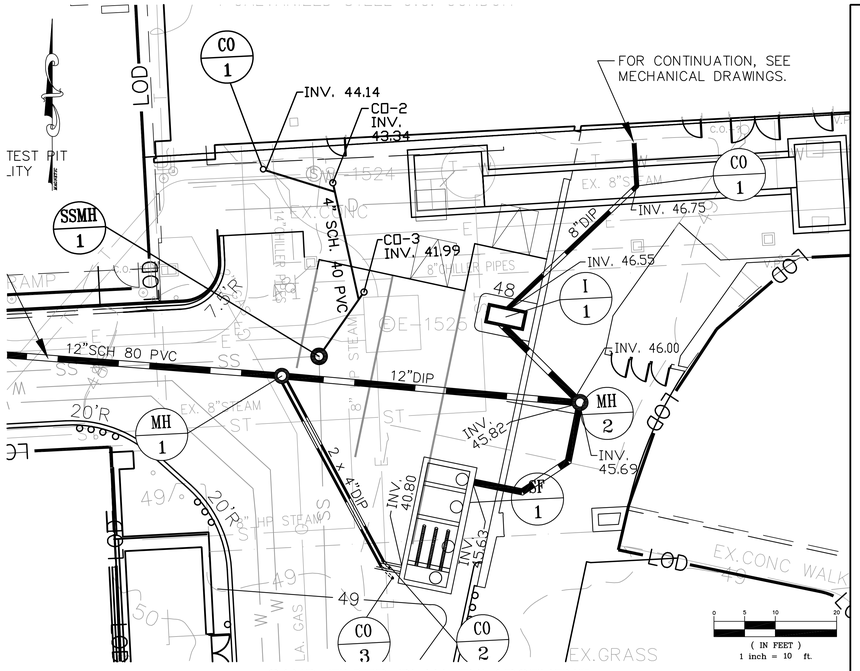
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Utility Plan

100%
CONSTRUCTION
DOCUMENTS

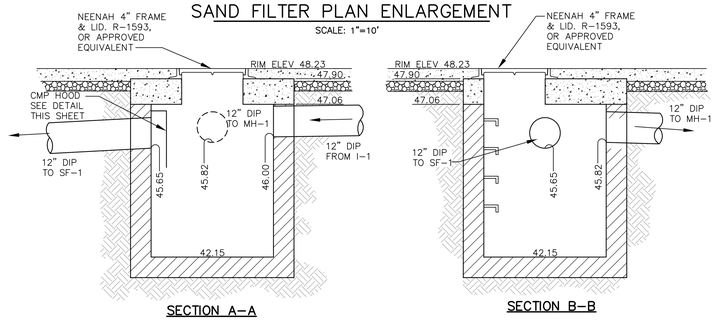
UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
REV.#

C 3.1



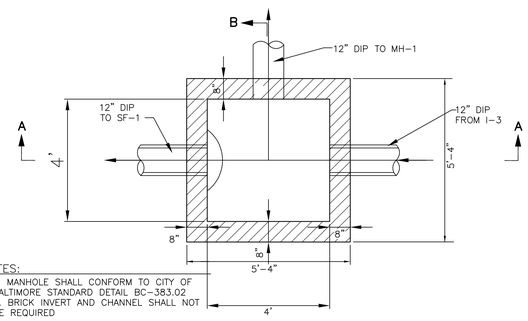
SAND FILTER PLAN ENLARGEMENT

SCALE: 1"=10'



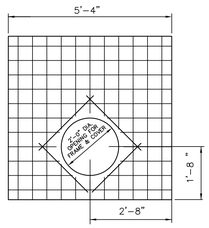
SECTION A-A

SECTION B-B



NOTES:
1. MANHOLE SHALL CONFORM TO CITY OF BALTIMORE STANDARD DETAIL BC-383.02
2. BRICK INVERT AND CHANNEL SHALL NOT BE REQUIRED

PLAN
(SHOWN WITHOUT CONC. SLAB)



CONCRETE SLAB
(CONCRETE MIX NO. 3, 10" THICK)

FLOW SPLITTER / SEDIMENTATION MANHOLE (MH-2)

SCALE: 1"=2'

PROJECT NAME: **UNIVERSITY OF MARYLAND, CAMPUS CENTER** MDE NO: **07-SF-0018**

AS - BUILT DATA FOR FLOW SPLITTERS
* TO BE COMPLETED BY THE CERTIFYING ENGINEER

	DESIGN	*AS-BUILT
WQ DIVERSION OPENING SIZE/ELEVATION	12" / 45.66'	12"/45.69'
INLET OPENING SIZE/ELEVATION	12" / 46.37'	12"/46.00'
BYPASS OPENING SIZE/ELEVATION	12" / 46.30'	12"/45.82'

DATE AS-BUILT APPROVED BY MDE:

PROJECT NAME: **UNIVERSITY OF MARYLAND CAMPUS CENTER** MDE NO: **07-SF-0018**

AS - BUILT DATA FOR FILTERS (Sand filters and Bioretention)
* TO BE COMPLETED BY THE CERTIFYING ENGINEER

TYPE OF FACILITY:	DESIGN	*AS-BUILT
FILTER BED AREA (LxW)	49 S.F.	49 S.F.
FILTER BED SURFACE ELEVATION	43.63'	43.63'
FILTER INLET PIPE SIZE/ELEVATION	12" DIP, INV=45.63	12" DIP, INV=45.63
OUTLET PIPE (UNDERDRAIN) SIZE/ELEVATION	12" HDPE, INV=40.80	2x4" DIP, INV=40.80
OVERFLOW WEIR ELEVATION	46.30'	45.82'
4" PEAGRAVEL ABOVE AND BELOW SAND	YES	YES
PRETREATMENT VOLUME	178.5 C.F.	178.5 C.F.

DATE AS-BUILT APPROVED BY MDE:

STORMWATER MANAGEMENT "AS-BUILT" CERTIFICATION

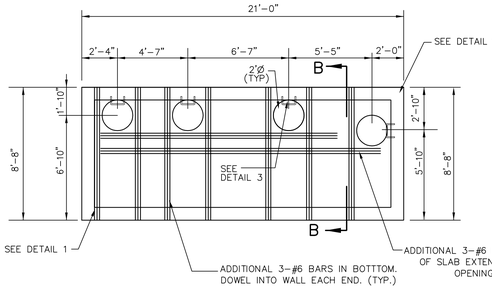
I hereby certify that the stormwater management facility (facilities) shown on the plans and individually identified below has (have) been constructed in accordance with the plans included under the Maryland Department of the Environment Approval, Number 07-SF-0018, except as noted in red on the "AS BUILT" drawings. Furthermore, the red-noted exceptions do not adversely affect the intended performance of the facility (facilities).

Facilitiy Identification (Identify Each Facility Individually)

Name (Printed) Signature

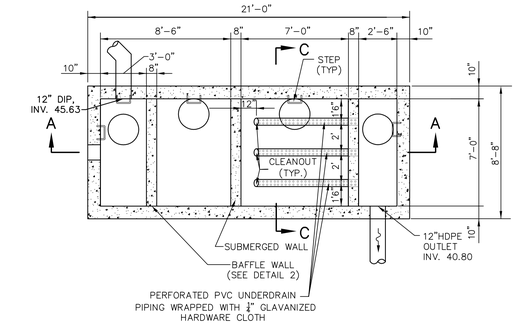
Maryland Registration Number Date

"Certify" means to state or declare a professional opinion based on sufficient and appropriate onsite inspections and material tests conducted during construction

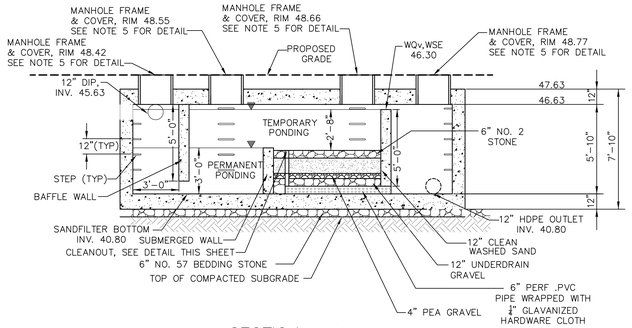


NOTES:
1. INTERRUPTED BARS SHALL HAVE STANDARD 180° HOOKS AT END.
2. SEE DETAIL 1 FOR WALL CORNER REINFORCING.
3. SEE DETAIL 2 FOR BAFFLE/WEIR WALL REINFORCING.
4. SEE DETAIL 3 FOR DIAGONAL REINFORCING AROUND MANHOLES.
5. USE STANDARD MANHOLE TYPE A FRAME AND COVER, SHA STD. MD-383.31 & MD-383.32

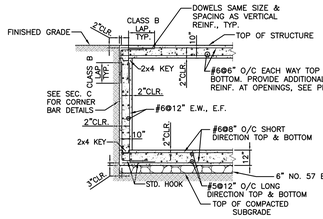
TOP SLAB REINFORCING
SCALE: 1/4" = 1'-0"



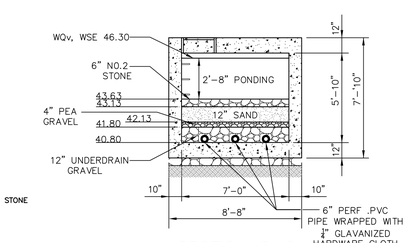
PLAN VIEW (TOP REMOVED)
SCALE: 1/4" = 1'-0"



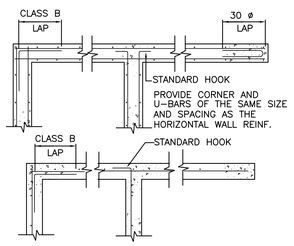
SECTION A-A
SCALE: 1/4" = 1'-0"



SECTION B-B
SCALE: 1/4"=1'-0



SECTION C-C
SCALE: 1/4" = 1'-0"

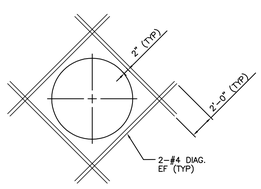


TYPICAL CONCRETE WALL CORNER REINFORCING

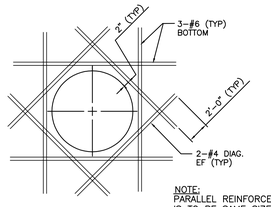
DETAIL 1
SCALE: N.T.S.

BAFFLE/WEIR WALL REINFORCING

DETAIL 2
SCALE: 1" =2'



WITHOUT INTERRUPTING REINFORCING STEEL BARS

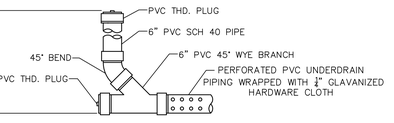


WITH INTERRUPTING REINFORCING STEEL BARS

NOTE:
PARALLEL REINFORCEMENT IS TO BE SAME SIZE AS INTERRUPTED BARS.

TYPICAL REINFORCEMENT @ MANHOLES

DETAIL 3
NOT TO SCALE

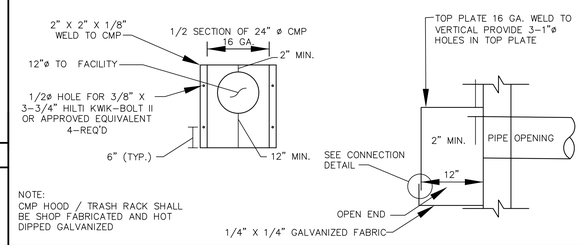


CLEANOUT FOR SANDFILTER UNDERDRAIN

DETAIL 4
NOT TO SCALE

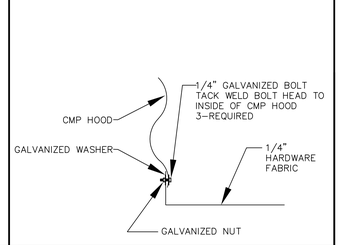
SAND FILTER, SF-1

SCALE: AS SHOWN



NOTE:
CMP HOOD / TRASH RACK SHALL BE SHOP FABRICATED AND HOT DIPPED GALVANIZED

CMP PIPE HOOD SCALE: N.T.S.



CONNECTION DETAIL NOT TO SCALE

UNDERGROUND SANDFILTER MAINTENANCE SCHEDULE & NOTES:

1. TRASH AND DEBRIS SHALL BE REMOVED FROM THE FACILITY AS NECESSARY.
2. SEDIMENT SHALL BE CLEANED OUT OF THE SEDIMENTATION CHAMBER WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN SIX (6) INCHES.
3. WHEN THE FILTERING CAPACITY OF THE FILTER DIMINISHES SUBSTANTIALLY (I.E. WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 72 HOURS.), THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH MATERIAL. THE REMOVED SEDIMENTS SHOULD BE DISPOSED IN AN ACCEPTABLE MANNER (I.E. LANDFILL).
4. DIRECT MAINTENANCE SHALL BE PROVIDED TO THE SEDIMENTATION CHAMBER AND FILTER BED.
5. THE SANDFILTER SHALL BE INSPECTED 3 DAYS AFTER A MAJOR STORM AND ON A BIANNUAL BASIS.

CONSTRUCTION SPECIFICATIONS:

DESIGN ASSUMPTIONS:
1. CONCRETE STRUCTURE HAS BEEN DESIGNED FOR HS20-44 TRUCK LOADING.
2. CONCRETE STRUCTURE WAS DESIGNED ASSUMING THE FOLLOWING SOIL PROPERTIES: ALLOWABLE BEARING PRESSURE= 1500 PSF ACTIVE PRESSURE= 62.5h IF SOIL PROPERTIES DIFFER FROM THOSE LISTED ABOVE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

MATERIALS:
1. STRUCTURE SHALL BE CAST-IN-PLACE.
2. POLYVINYL PIPE (PVC) SHALL BE RIGID SCHEDULE 40 PVC OR SDR-35. PERFORATED PIPE SHALL CONFORM TO ASTM F 758, TYPE PS 28 OR AASHTO M-278. 3/8" PERFORATIONS AT 6" ON CENTER, 4 HOLES PER ROW; MINIMUM 3" GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES.
3. SAND SHALL CONFORM TO AASHTO M-6/ASTM C-33, MEDIUM AGGREGATE CONCRETE SAND. SIZE SHALL BE 0.02" TO 0.04".
4. GEOTEXTILE FABRIC BETWEEN LAYERS SHALL CONFORM TO ASTM D-4833 AND ASTM D-4632. 0.08" THICK, EQUIVALENT OPENING SIZE OF #80 SIEVE.
5. UNDERDRAIN GRAVEL SHALL CONFORM TO AASHTO M-43, NO. 57.

CAST-IN-PLACE CONCRETE:
1. ALL CONCRETE WORK SHALL CONFORM TO ALL PROVISIONS OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301-95), AND TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-95).
2. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE STONE AGGREGATE CONCRETE HAVING 4000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60.

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid
Issued:	May 02, 2007	

Campus Center

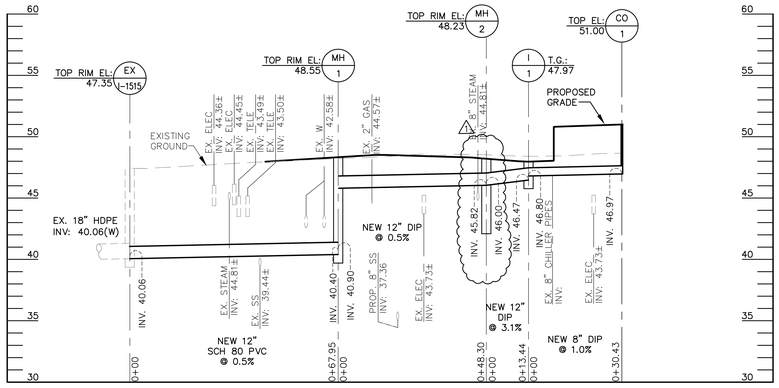
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

STORMWATER MANAGEMENT PLAN AND DETAILS

100% CONSTRUCTION DOCUMENTS

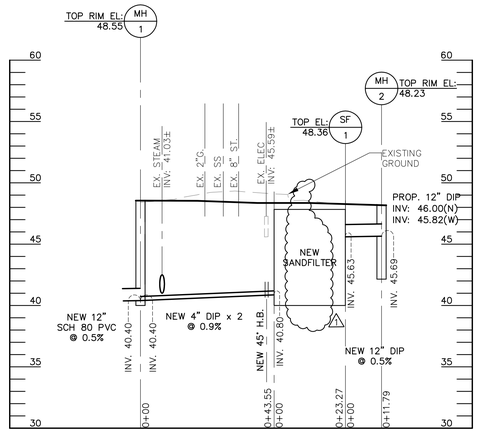
UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
© WTW ARCHITECTS 2010 REV.#

C 3.2



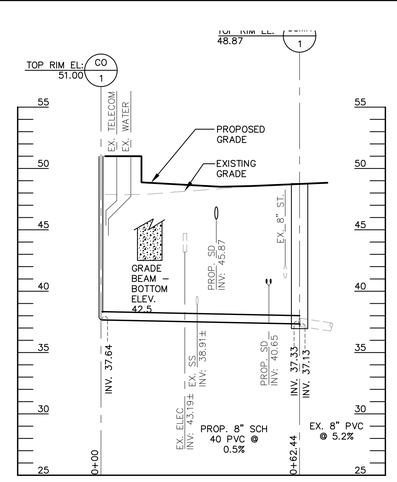
STORM DRAIN PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



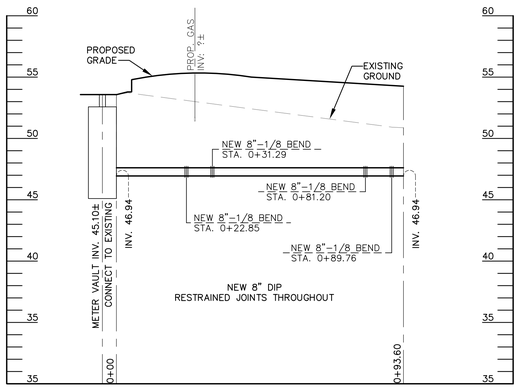
STORM DRAIN PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



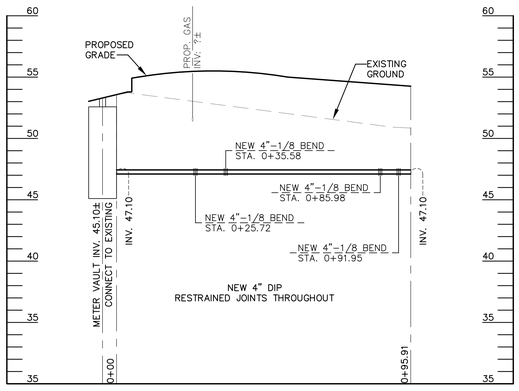
SANITARY PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



8" WATER LINE PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



4" WATER LINE PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

REFERENCE NOTE:

1. FOR LEGEND, AND VICINITY MAP, SEE SHEET T 1.1
2. FOR GENERAL NOTES, SEE SHEET C 2.1

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)

WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

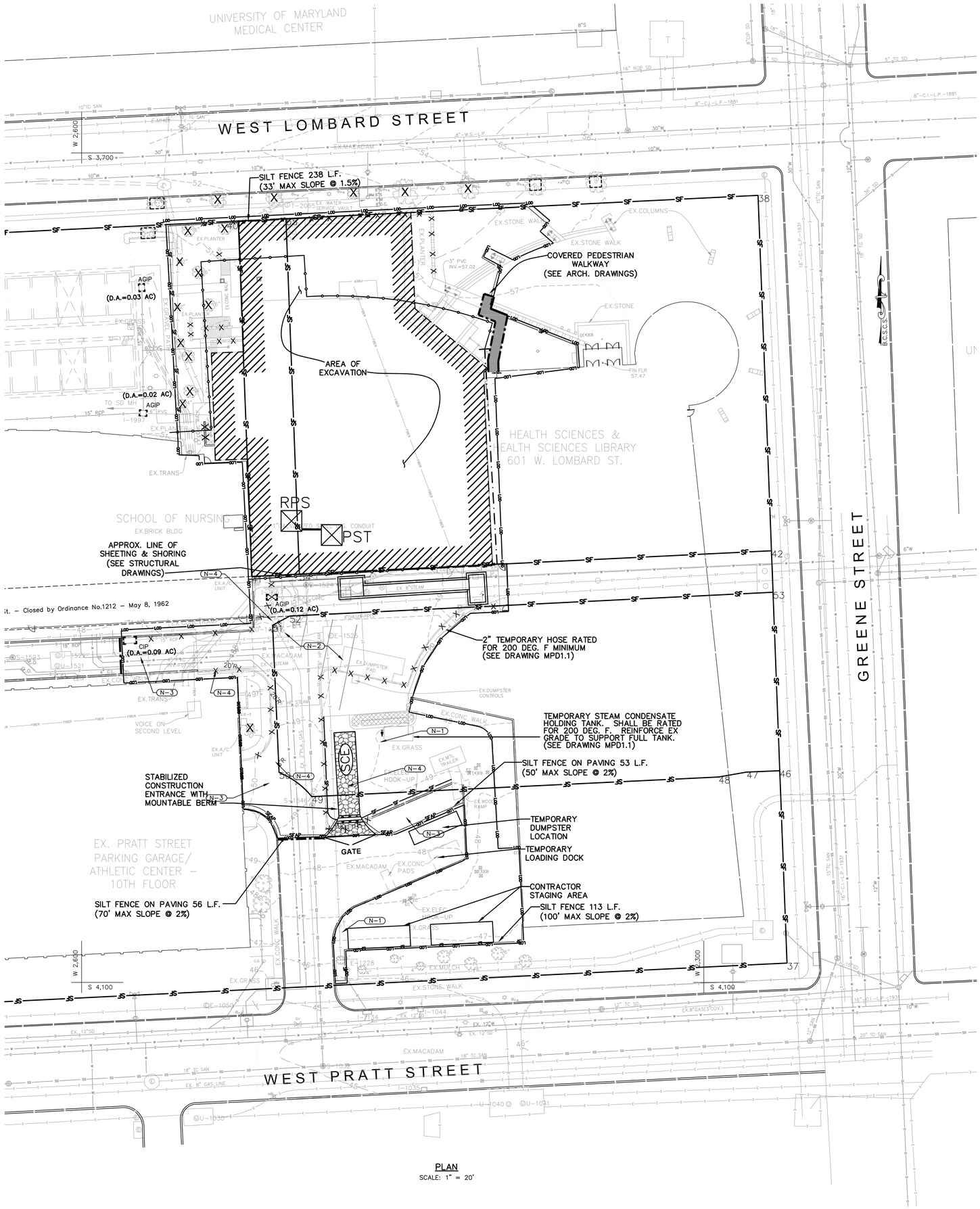
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Utility Profiles

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

C 3.3



PLAN
SCALE: 1" = 20'

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BUILDING	Existing Bldg.	NEW BLDG.
PAVING	Existing Paving	HEAVY ▩ LIGHT ▨
CONCRETE WALK	Ex. Conc. Walk	▩
SOD		+ + + +
WALL	⊏⊐---⊏⊐---⊏⊐	
COLUMN	○	
TELEPHONE	——T——	
GAS	——G——	——●——
ELECTRIC	——E——	
CONC. CURB AND GUTTER	═ ═ ═ ═	══════
STORM DRAIN	——D——	▬▬▬▬▬
SANITARY	——SS——	——————
WATER	——W——	══════
STEAM	——ST——	
VALVE	⊶	●
HYDRANT	⋈	⋈
MANHOLE	Ⓢ	○
INLET	▭	▭
STREET LIGHT POLE	☼	■
CONTOUR	---212--- ---210---	——215—— ——210——
SPOT ELEVATION	×210.00	+ 210.00
FENCE	——X——	——X——
TREES	✻	⊕
PLANTINGS	☁	☁
BUILDING OVERHANG		— · — · —

VICINITY MAP
SCALE: 1"=2,000'

SEDIMENT CONTROL LEGEND

LIMIT OF DISTURBANCE	——LOD——
SILT FENCE	——SF——
CONSTRUCTION FENCE	▬ · ▬ · ▬
TREE PROTECTION FENCE	- - - - - -
HEAVY DUTY STABILIZED CONSTRUCTION ENTRANCE W/ MOUNTABLE BERM	SCE
AT GRADE INLET PROTECTION	AGIP ▭
EXCAVATION	▨
COVERED PEDESTRIAN WALKWAY	▩

NOTE TO CONTRACTOR:

1. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.

2. THERE WILL BE NO STOCKPILING OF EXCESS MATERIAL ON–SITE.

REFERENCE NOTE:

1. SEE SHEET C 1.1 FOR GENERAL NOTES

NOTE TO CONTRACTOR: EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
2	01/29/10	Record Drawing
1	04/09/07	Bulletin #1
0	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

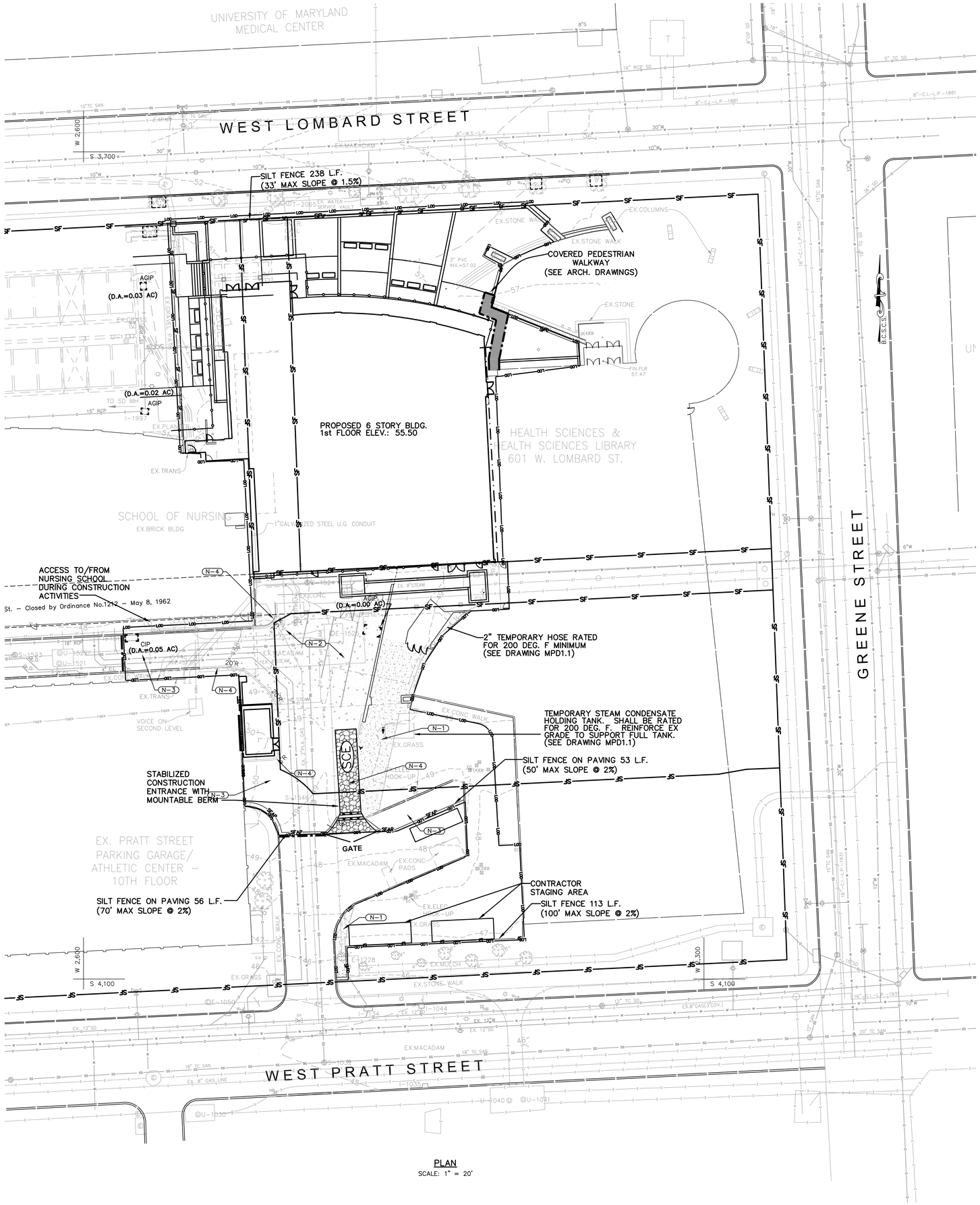
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Erosion and Sediment Control Plan Phase 1

100%
CONSTRUCTION
DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
REV.# 0

C 4.1



PLAN
SCALE: 1" = 20'

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BUILDING	Existing Bldg.	NEW BLDG.
PAVING	Existing Paving	HEAVY / LIGHT
CONCRETE WALK	Ex. Conc. Walk	
SOD		
WALL		
COLUMN		
TELEPHONE	T	
GAS	G	G
ELECTRIC	E	
CONC. CURB AND GUTTER		
STORM DRAIN	D	
SANITARY	SS	
WATER	W	
STEAM	ST	
VALVE		
HYDRANT		
MANHOLE	S	
INLET		
STREET LIGHT POLE		
CONTOUR	212	215 / 210
SPOT ELEVATION	×210.00	+ 210.00
FENCE	X	X
TREES		
PLANTINGS		
BUILDING OVERHANG		
SHEET & SHORING		
UNDERPINNING		

NOTE TO CONTRACTOR: EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.

VICINITY MAP
SCALE: 1"=2,000'

SEDIMENT CONTROL LEGEND

- LIMIT OF DISTURBANCE — LOD
- SILT FENCE — SF
- CONSTRUCTION FENCE
- TREE PROTECTION FENCE
- HEAVY DUTY STABILIZED CONSTRUCTION ENTRANCE W/ MOUNTABLE BERM — SCE
- AT GRADE INLET PROTECTION — AGIP
- EXCAVATION
- COVERED PEDESTRIAN WALKWAY

REFERENCE NOTE:
1. SEE SHEET C 1.1 FOR GENERAL NOTES

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08
IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512–4500
(410) 324–4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid

Issued: May 02, 2007

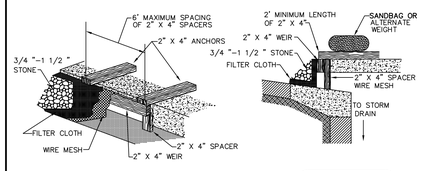
Campus Center
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

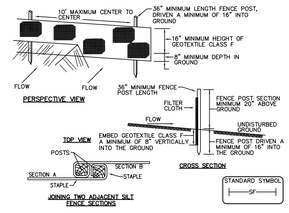
Erosion and Sediment Control Plan Phase 2

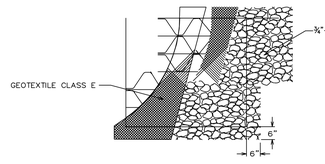
100% CONSTRUCTION DOCUMENTS

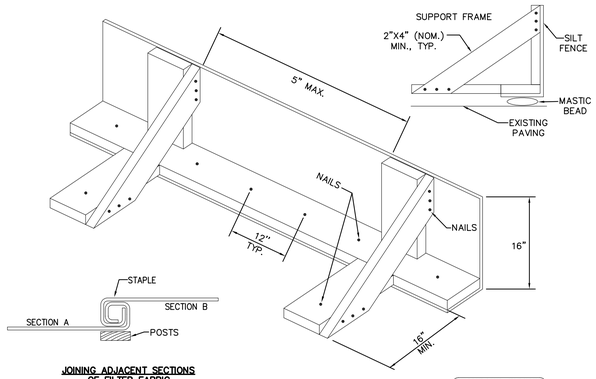
UMB PROJECT NO. 99-311
WTW PROJECT NO. 704091
 REV.# 0

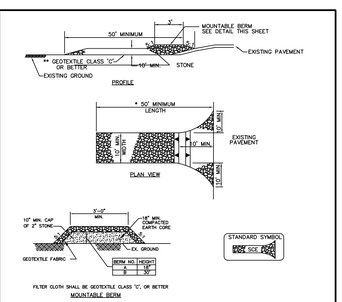
C 4.2

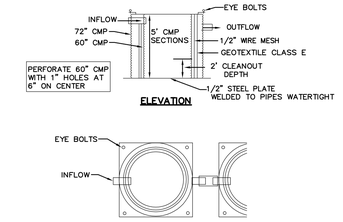


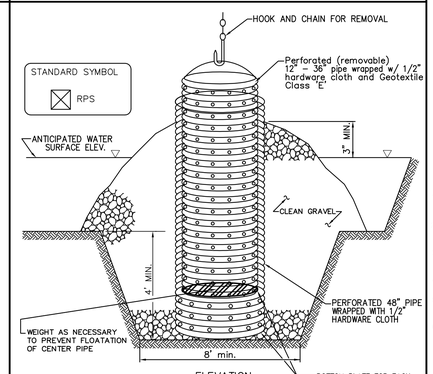


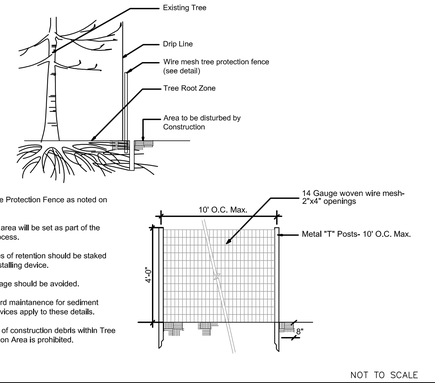












DETAIL 23C - CURB INLET PROTECTION (COG OR COS INLETS)

MAX. DRAINAGE AREA = 1/4 ACRE

CONSTRUCTION SPECIFICATIONS

1. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MINIMUM WIDTH BY THROAT LENGTH PLUS 4') TO THE 2" X 4" WEIR (MEASURING THROAT LENGTH PLUS 2') AS SHOWN ON THE STANDARD drawing.
2. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2" X 4" WEIR.
3. SECURELY NAIL THE 2" X 4" WEIR TO A 9" LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAX. 4' APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2' LENGTHS OF 2" X 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS). THESE 2" X 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE 1/2 " X 1/2 " WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4 " X 1 1/2 " STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.

1	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 16 - 5B	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

CONSTRUCTION SPECIFICATIONS

1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 11/2" X 11/2" SQUARE (MIN.) CUT, OR 13/4" DIAMETER (MIN.) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHTING NOT LESS THAN 1.00 POND PER LINEAR FOOT.
2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TENSILE STRENGTH	50 LBS/IN (MIN.)	TEST: MSMT 509
TENSILE MODULUS	20 LBS/IN (MIN.)	TEST: MSMT 509
FLOW RATE	0.3 GAL² FT / MINUTE (MAX.)	TEST: MSMT 322
FILTERING EFFICIENCY	75% (MIN.)	TEST: MSMT 322

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.

2 **SILT FENCE** NOT TO SCALE

MAX. DRAINAGE AREA = 1 ACRE

CONSTRUCTION SPECIFICATIONS

1. LIFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS, THEN SET GRATE BACK IN PLACE.
2. PLACE 3/4" TO 1 1/2" STONE, 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION.

3 **AT GRADE INLET PROTECTION** NOT TO SCALE

1. ALL FINISHED LUMBER SHALL BE 2'-0" x 4'-0" (NOM.) MINIMUM.
2. A MASTIC SEAL SHALL BE PROVIDED, AS SHOWN, TO PREVENT SEDIMENT-LADEN WATER ESCAPING UNTREATED BENEATH SILT FENCE INSTALLATION.
3. SILT FENCE FABRIC SHALL BE TAUT AND SECURELY STAPLED TO FACE OF UPRIGHT SUPPORTS.
4. NAILS USED TO SECURE BOARDS TO PAVEMENT SHALL BE 20d X 4" MINIMUM LENGTH.
5. APPLICATION, DESIGN AND MATERIALS CRITERIA SHALL BE AS STATED IN THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR SILT FENCE.
6. THE SYMBOL IS "-SFAP-."

4 **SILT FENCE INSTALLATION ON ASPHALT PAVEMENT** NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WILL APPLY).
3. THICKNESS - NOT LESS THAN TEN (10) INCHES.
4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR ENGRESS OCCURS.
5. GEOTEXTILE FABRIC CLASS 'C' OR BETTER SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING OF STONE. GEOTEXTILE FABRIC WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENT LOT.
6. A MOUNTABLE BERM WITH 5:1 SLOPES IS REQUIRED FOR ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS CONSTRUCTION ENTRANCE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

5 **HEAVY DUTY STABILIZED CONSTRUCTION ENTRANCE** NTS

STANDARD EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE MARYLAND WATER MANAGEMENT ADMINISTRATION (WMA) AT (410) 537-3510 SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE ADMINISTRATION, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF WMA.
2. THE CONTRACTOR MUST NOTIFY WMA IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:
   - A. THE REQUIRED PRE-CONSTRUCTION MEETING.
   - B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
   - C. DURING THE INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORMWATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY.
   - D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
   - E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
   - F. PRIOR TO FINAL ACCEPTANCE.
3. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE AGENCY INSPECTOR OR WMA INSPECTOR PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE WMA INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM WMA INSPECTOR AND AGENCY INSPECTOR. THE CONTRACTOR MUST OBTAIN PRIOR AGENCY AND WMA APPROVAL FOR CHANGES TO THE SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.
5. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM WMA INSPECTOR AND AGENCY INSPECTOR.
6. ALL SEDIMENT BASINS, TRAP EMBANKMENTS AND SLOPES, PERIMETER DIKES, SWALES, AND ALL DISTURBED SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SOD OR SEED AND ANCHORED STRAW MULCH OR OTHER APPROVED STABILIZATION MEASURES AS SOON AS POSSIBLE BUT NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER ESTABLISHMENT. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. (REQUIREMENT FOR STABILIZATION MAY BE REDUCED TO THREE (3) DAYS FOR SENSITIVE AREAS.)
7. THE CONTRACTOR SHALL APPLY SOD OR SEED AND ANCHORED STRAW MULCH OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS AND STOCKPILES WITHIN FOURTEEN (14) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED IN THE AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. (REQUIREMENT MAY BE REDUCED TO SEVEN (7) DAYS FOR SENSITIVE AREAS.)
8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE, BUT NO LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED STRAW MULCH SHALL BE APPLIED TO THE DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.
9. THE SITE'S APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF WMA AND AGENCY RESPONSIBLE FOR PROJECT.
10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING PROTECTIVE DEVICES TO LOWER THE WATER DOWNSLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. PROTECTIVE METHODS MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
11. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING, RIPRAP OR BY OTHER APPROVED STABILIZATION MEASURES.
12. TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED, WITH PERMISSION OF WMA INSPECTOR AND AGENCY INSPECTORS, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN THE LAWN MAINTENANCE AREAS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NON-MAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
14. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO: PREVENT WATER FROM STANDING ON THE SURFACE MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL, AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.
15. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN TWENTY (20) FEET OF A FOUNDATION WHICH IS EXISTING OR UNDER CONSTRUCTION. NO STRUCTURE MAY BE CONSTRUCTED WITHIN TWENTY (20) FEET OF AN ACTIVE SEDIMENT TRAP OR BASIN.
16. THE WMA INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.
17. ALL TRAP DEPTH DIMENSIONS ARE RELATIVE TO THE OUTLET ELEVATION. ALL TRAPS MUST HAVE A STABLE OUTFALL. ALL TRAPS AND BASINS SHALL HAVE STABLE INFLOW POINTS.
18. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING AND GROUND COVERS.
19. SEDIMENT SHALL BE REMOVED AND THE TRAP OR BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE QUARTER OF THE TOTAL DEPTH OF THE TRAP OR BASIN. TOTAL DEPTH SHALL BE MEASURED FROM THE TRAP OR BASIN BOTTOM TO THE CREST OF THE OUTLET.
20. SEDIMENT REMOVED FROM TRAPS (AND BASINS) SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR TREE-SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SUMP PIT MAY BE USED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT.
21. ALL WATER REMOVED FROM EXCAVATED AREAS (E.G. UTILITY TRENCHES) SHALL BE PASSED THROUGH AN APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE FROM THE SITE (I.E. VIA FUNCTIONAL STORM DRAIN SYSTEM OR STABLE GROUND SURFACE.
22. SEDIMENT CONTROL FOR UTILITY CONSTRUCTION FOR AREAS OUTSIDE OF DESIGNED CONTROLS OR AS DIRECTED BY ENGINEER OR WMA INSPECTOR:
   - A. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK.
   - B. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH.
   - C. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY, UNLESS;
   - D. TEMPORARY SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.
23. WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, SEDIMENT BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST COMFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL BUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS. WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE MUST BE MADE OF WELDED WIRE AND AT LEAST 42" HIGH, HAVE POSTS SPACED NO FARTHER THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN 2 INCHES IN WIDTH AND 4 INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.
24. OFF-SITE SOIL OR BORROW AREAS ON STATE OR FEDERAL PROPERTY MUST HAVE PRIOR APPROVAL BY WMA AND OTHER APPLICABLE STATE, FEDERAL AND LOCAL AGENCIES; OTHERWISE, APPROVAL MUST BE GRANTED BY THE LOCAL AUTHORITIES. ALL WASTE AND BORROW AREAS OFF-SITE MUST BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.
25. SITES WHERE INFILTRATION DEVICES ARE USED FOR THE CONTROL OF STORMWATER, EXTREME CARE MUST BE TAKEN TO PREVENT RUNOFF FROM UNSTABILIZED AREAS FROM ENTERING THE STRUCTURE DURING CONSTRUCTION. SEDIMENT CONTROL DEVICES PLACED IN INFILTRATION AREAS MUST HAVE BOTTOM ELEVATIONS AT LEAST TWO (2) FEET HIGHER THAN THE FINISH GRADE BOTTOM ELEVATION OF THE INFILTRATION PRACTICE. WHEN CONVERTING A SEDIMENT TRAP TO AN INFILTRATION DEVICE, ALL ACCUMULATED SEDIMENT MUST BE REMOVED AND DISPOSED OF PRIOR TO FINAL GRADING OF INFILTRATION DEVICE.
26. WHEN A STORM DRAIN SYSTEM OUTFALL IS DIRECTED TO A SEDIMENT TRAP OR SEDIMENT BASIN AND THE SYSTEM IS TO BE USED FOR TEMPORARILY CONVEYING SEDIMENT LADEN WATER, ALL STORM DRAIN INLETS IN NON-SUMP AREAS SHALL HAVE TEMPORARY ASPHALT BERMS CONSTRUCTED AT THE TIME OF BASE PAVING TO DIRECT GUTTER FLOW INTO THE INLETS TO AVOID SURCHARGING AND OVERFLOW OF INLETS IN SUMP AREAS.
27. SITE INFORMATION:

TOTAL AREA OF FACILITY (BASE, CAMPUS, PARK, ETC.)	3.96 ACRES
TOTAL AREA OF PROJECT SITE	1.08 ACRES
AREA DISTURBED	1.00 ACRES
AREA TO BE ROOFED OR PAVED	0.93 ACRES
TOTAL CUT *	5000 CUBIC YARDS
TOTAL FILL *	200 CUBIC YARDS
OFF-SITE WASTE/BORROW AREA LOCATION	_______________

* NOTE: CUT AND FILL CALCULATIONS LISTED ABOVE ARE FOR SEDIMENT AND EROSION CONTROL PURPOSES ONLY. CONTRACTOR SHALL CALCULATE HIS/HER OWN ESTIMATE AMOUNTS OF EARTHWORK QUANTITIES.

DETAIL 21 - PORTABLE SEDIMENT TANK

Construction Specifications

1. The following formula should be used in determining the storage volume of the sediment tank: 1 cubic foot of storage for each gallon per minute of pump discharge capacity.
2. An example of a typical sediment tank is shown above. Other container designs can be used if the storage volume is adequate and approval is obtained from the local approving agency.
3. Tanks may be connected in series.

6	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE D - 14 - 2	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 20A - REMOVABLE PUMPING STATION

CONSTRUCTION SPECIFICATIONS

1. THE OUTER PIPE SHOULD BE 48" DIA. OR SHALL, IN ANY CASE, BE AT LEAST 4" GREATER IN DIAMETER THAN THE CENTER PIPE. THE OUTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH TO PREVENT BACKFILL MATERIAL FROM ENTERING THE PERFORATIONS.
2. AFTER INSTALLING THE OUTER PIPE, BACKFILL AROUND OUTER PIPE WITH 2" AGGREGATE OR CLEAN GRAVEL.
3. THE INSIDE STAND PIPE (CENTER PIPE) SHOULD BE CONSTRUCTED BY PERFORATING A CORRUGATED OR PVC PIPE BETWEEN 12" AND 36" IN DIAMETER. THE PERFORATIONS SHALL BE 1/2" X 6" SLITS OR 1" DIAMETER HOLES 6" ON CENTER. THE CENTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH FIRST, THEN WRAPPED AGAIN WITH GEOTEXTILE CLASS C.
4. THE CENTER PIPE SHOULD EXTEND 12" TO 18" ABOVE THE ANTICIPATED WATER SURFACE ELEVATION OR RISER CREST ELEVATION WHEN DEWATERING A BASIN.

7	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE D - 12 - 5	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

NOTE:
1. Install Tree Protection Fence as noted on plan.
2. Retention area will be set as part of the review process.
3. Boundaries of retention should be staked prior to installing device.
4. Root damage should be avoided.
5. All standard maintanence for sediment control devices apply to these details.
6. Disposing of construction debris within Tree Preservation Area is prohibited.

NOT TO SCALE

8 TREE PROTECTION FENCE & ROOT PRUNING DETAIL

SEQUENCE OF CONSTRUCTION:

TIME OF COMPLETION

1. NOTIFY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT ENFORCEMENT DIVISION AT (410) 537-3510 LEAST SEVEN DAYS PRIOR TO THE START OF ANY WORK. ....7 DAYS
2. CLEAR AND GRUB AREAS NECESSARY FOR INSTALLATION OF SEDIMENT CONTROL DEVICES. ....2 DAYS
3. INSTALL SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH APPROVED PLAN. ....3 DAYS
4. PERFORM DEMOLITION WORK AS PER DEMOLITION DRAWINGS. ....4 MONTHS
5. INSTALL SHEETING AND SHORING PER STRUCTURAL DRAWINGS. ....3 WEEKS
6. DRILL CAISSONS AND INSTALL FOUNDATIONS. DISPOSE OF EXCESS MATERIAL FROM EXCAVATION AND DRILLING AS WORK PROCEEDS. ....5 WEEKS
7. CONSTRUCT BUILDING RETAINING WALLS. ....3 WEEKS
8. BRING SUBGRADE TO SLAB ELEVATIONS WITH APPROVED FILL. CONSTRUCT UTILITIES AND BUILDING SIMULTANEOUSLY. REMOVE SHEETING AND SHORING. ....3 MONTHS
9. INSTALL INLET PROTECTION ON NEW INLETS UNTIL SITE IS STABALIZED. ....1 DAY
10. COMPLETE REMAINING SITE GRADING, WALKS, AND UTILITIES. BEGIN INSTALLATION OF UNDERGROUND SAND FILTER. DO NOT MAKE CONNECTIONS TO STORM DRAIN SYSTEM UNTIL ALL CONTRIBUTING DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ....3 WEEKS
11. PERFORM FINAL SITE GRADING AND REMAINING WORK. AND BUILDING SIMULTANEOUSLY. ....2 WEEKS
12. PERMANENTLY STABILIZE ALL REMAINING DISTURBED AREAS AND INSTALL LANDSCAPING. ....2 WEEKS
13. ONCE PERMANENT STABILIZATION IS ESTABLISHED IN ALL DISTURBED AREAS CONTRIBUTING TO THE UNDERGROUND SAND FILTER, COMPLETE CONNECTIONS BETWEEN UNDERGROUND SAND FILTER AND STORM DRAIN SYSTEM. ....2 DAYS
14. REMOVE SEDIMENT CONTROL DEVICES WITH PRIOR APPROVAL FROM MDE INSPECTION. PROVIDE PERMANENT STABILIZATION TO AREAS DISTURBED BY SEDIMENT CONTROLS. ....2 DAYS

NOTE TO CONTRACTOR: EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

STANDARD STABILIZATION NOTE:

"FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND FOURTEEN DAYS (14) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE."

DESIGN CERTIFICATION:

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 1994 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT STORMWATER MANAGEMENT REGULATIONS."

DATE — DESIGNER'S SIGNATURE

9972 — PHILIP DER

MD. REGISTRATION NO. — PRINTED NAME

[✓ P.E.] R.L.S. OR R.L.A. (CIRCLE)

OWNER'S/DEVELOPER'S CERTIFICATION:

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

OWNER/DEVELOPER SIGNATURE — DATE

PRINTED NAME AND TITLE — CARD NO.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
2	01/29/10	Record Drawing
1	04/09/07	Bulletin #1
0	02/16/07	Issued For Bid

Issued: May 02, 2007

Campus Center

West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Erosion and Sediment Control Notes & Details

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
REV.# 0

C 4.3

SECTION I – VEGETATIVE STABILIZATION METHODS AND MATERIALS

A. SITE PREPARATION

i. INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OR PERMANENT) SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS, OR SEDIMENT CONTROL BASINS.

ii. PERFORM ALL GRADING OPERATIONS AT RIGHT ANGLES TO THE SLOPE. FINAL GRADING AND SHAPING IS NOT USUALLY NECESSARY FOR TEMPORARY SEEDING.

iii. SCHEDULE REQUIRED SOIL TESTS TO DETERMINE SOIL AMENDMENT COMPOSITION AND APPLICATION RATES FOR SITES HAVING DISTURBED AREA OVER 5 ACRES.

B. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

i. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OVER 5 ACRES. SOIL ANALYSIS MAY BE PERFORMED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSIS.

ii. FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING, AND SUITABLE FOR ACCURATE APPLICATION BY APPROVED EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS SHALL BE DELIVERED TO THE SITE, FULLY LABELED ACCORDING TO APPLICABLE STATE FERTILIZER LAWS AND SHALL BEAR THE NAME, TRADE NAME OR TRADEMARK, AND WARRANTY OF THE PRODUCER.

iii. LIME MATERIALS SHALL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A #100 MESH SIEVE, AND 98 TO 100% WILL PASS THROUGH A #20 MESH SIEVE.

iv. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 – 5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

C. SEEDBED PREPARATION

i. TEMPORARY SEEDING

a. SEEDBED PREPARATION SHALL CONSIST OF LOOSENING SOIL TO A DEPTH OF 3 INCHES TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS, CHISEL PLOWS, OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT SHOULD NOT BE ROLLED OR DRAGGED SMOOTH, BUT LEFT IN THE ROUGHENED CONDITION. SLOPED AREAS (GREATER THAN 3:1) SHOULD BE TRACKED BY A DOZER LEAVING THE SURFACE IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.

c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

ii. PERMANENT SEEDING

a. MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT:

1. SOIL pH SHALL BE BETWEEN 6.0 AND 7.0.
2. SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM).
3. THE SOIL SHALL CONTAIN LESS THAN 40% CLAY, BUT ENOUGH FINE GRAINED MATERIAL (>30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION IS IF LOVEGRASS OR SERECIA LESPEDEZA IS TO BE PLANTED, THEN A SANDY SOIL (<30% SILT PLUS CLAY) WOULD BE ACCEPTABLE.
4. SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY WEIGHT.
5. SOIL MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
6. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON SITE, ADDING TOPSOIL IS REQUIRED IN ACCORDANCE WITH SECTION 21 "STANDARD AND SPECIFICATION FOR TOPSOIL" OF THE 1994 MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.

b. AREAS PREVIOUSLY GRADED IN CONFORMANCE WITH THE DRAWINGS SHALL BE MAINTAINED IN A TRUE AND EVEN GRADE, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREA AND TO CREATE HORIZONTAL EROSION CHECK SLOTS TO PREVENT TOPSOIL FROM SLIDING DOWN A SLOPE.

c. APPLY SOIL AMENDMENTS AS PER SOIL TEST OR AS INCLUDED IN THE CONTRACT DOCUMENTS.

d. MIX SOIL AMENDMENTS INTO THE TOP 3 – 5 INCHES OF TOPSOIL BY DISKING OR OTHER SUITABLE MEANS. LAWN AREAS SHOULD BE RAKED TO SMOOTH THE SURFACE; REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION, LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE. STEEP SLOPES (STEEPER THAN 3:1) SHOULD BE TRACKED BY A DOZER LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP 1 – 3 INCHES OF SOIL SHOULD BE LOOSE AND FRIABLE. SEEDBED LOOSENING MAY NOT BE NECESSARY ON NEWLY DISTURBED AREAS.

D. SEED SPECIFICATIONS

i. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED SHALL HAVE BEEN TESTED WITHIN 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON THIS JOB.

NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.

ii. INOCULANT – THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES SHALL BE A PURE CULTURE OF NITROGEN-FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS SHALL NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANT AS DIRECTED ON PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 – 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE INOCULANT LESS EFFECTIVE.

E. METHODS OF SEEDING

i. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER), BROADCAST OR DROP SEEDER, OR A CULTIPACKER SEEDER.

a. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES AMOUNTS WILL NOT EXCEED THE FOLLOWING: NITROGEN – MAXIMUM OF 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS): 200 POUNDS/ACRE; K20 (POTASSIUM): 200 POUNDS/ACRE

b. LIME – USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.

c. SEED AND FERTILIZER SHALL BE MIXED ON SITE, AND SEEDING SHALL BE DONE IMMEDIATELY WITHOUT INTERRUPTION.

ii. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.

a. SEED SPREAD SHALL BE INCORPORATED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON THE TEMPORARY OR PERMANENT SEEDING SUMMARIES. THE SEEDED AREA SHALL THEN BE ROLLED WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.

b. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

iii. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.

a. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.

b. WHERE PRACTICAL, SEED SHOULD BE APPLIED IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

F. MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE)

i. STRAW SHALL CONSIST OF THOROUGHLY THRESHED WHEAT, RYE OR OAT STRAW, REASONABLY BRIGHT IN COLOR, AND SHALL NOT BE MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY, AND SHALL BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW.

ii. WOOD CELLULOSE FIBER MULCH (WCFM)

a. WCFM SHALL CONSIST OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

b. WCFM SHALL BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

c. WCFM, INCLUDING DYE, SHALL CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.

d. WCFM SHALL BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER, AND OTHER ADDITIVES TO FORM A HOMOGENOUS SLURRY. THE MULCH MATERIAL SHALL FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND SHALL COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDINGS.

e. WCFM SHALL CONTAIN NO ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.

f. WOOD CELLULOSE FIBER MUST CONFORM TO THE FOLLOWNG PHYSICAL REQUIREMENTS: FIBER LENGTH TO APPROXIMATELY 10 MM., DIAMETER APPROXIMATELY 1 MM., pH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6% MAXIMUM, AND WATER HOLDING CAPACITY OF 90% MINIMUM.

NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS WHERE A STAND OF ONE SPECIES OF GRASS IS DESIRED.

G. MULCHING SEEDED AREAS – MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.

i. IF GRADING IS COMPLETED OUTSIDE OF THE SEEDING SEASON, MULCH ALONE SHALL BE APPLIED AND PRESCRIBED IN THIS SECTION AND MAINTAINED UNTIL THE SEEDING SEASON RETURNS, AND SEEDING CAN BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS.

ii. WHEN STRAW MULCH IS USED, IT SHALL BE SPREAD OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS/ACRE. MULCH SHALL BE APPLIED TO A UNIFORM LOOSE DEPTH OF BETWEEN 1 AND TWO INCHES. MULCH APPLIED SHALL ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. IF A MULCH ANCHORING TOOL IS TO BE USED, THE RATE SHOULD BE INCREASED TO 2.5 TONS/ACRE.

iii. WOOD CELLULOSE FIBER USED AS A MULCH SHALL BE APPLIED AT A NET DRY WEIGHT OF 1,500 LBS. PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

H. SECURING STRAW MULCH (MULCH ANCHORING): MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON SIZE OF AREA AND EROSION HAZARD.

i. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS IS THE MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD BE USED ON THE CONTOUR, IF POSSIBLE.

ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LBS./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS. OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

iii. APPLICATIONS OF LIQUID BINDERS SHOULD BE APPLIED HEAVIER AT EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. THE REMAINDER OF AREA SHOULD BE UNIFORM AFTER BINDER APPLICATION. SYNTHETIC BINDERS – SYNTHETIC BINDERS SUCH AS ACRYLIC DRL (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA TACK AR, OR OTHER APPROVED EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH.

iv. LIGHTWEIGHT: PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

SECTION II: TEMPORARY SEEDING

VEGETATION – ANNUAL GRASS OR GRAIN USED TO PROVIDE COVER ON DISTURBED AREAS FOR UP TO TWELVE MONTHS. FOR LONGER DURATION OF VEGETATIVE COVER, PERMANENT SEEDING IS REQUIRED.

TEMPORARY SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 7a) (FROM TABLE 26)					FERTILIZER RATE (10–10–10)	LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS		
	RYE PLUS FOXTAIL MILLET	150 LBS./ ACRE	2/1–4/30	1"	600 lb/ac (15 lb/1000 st)	2 tons/ac (100 lb/1000 st)
	WEEPING LOVEGRASS	4LBS. / ACRE	5/1 – 8/14	¼"– ½"		
	ANNUAL RYEGRASS	50LBS./ ACRE	2/1–4/30	¼"– ½"		

SECTION III: PERMANENT SEEDING

SEEDING GRASS AND LEGUMES TO ESTABLISH GROUND COVER FOR A MINIMUM PERIOD OF ONE YEAR ON DISTURBED AREAS GENERALLY RECEIVING LOW MAINTENANCE.

PERMANENT SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 7a) (FROM TABLE 25)					FERTILIZER RATE (10–20–20–)			LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SITE CONDITIONS	N	P205	K20	
MIX 7	TALL FESCUE (83%) WEEPING LOVEGRASS (2%) SERECIA LESPEDEZA (15%)	110 LBS./ ACRE 3 LBS./ ACRE 20 LBS./ACRE	3/1–5/15 5/16–8/14 8/16–11/15	DRY TO VERY DRY	90 lb/ac (2.0 lb/ 1000 st)	175 lb/ac (4 lb/ 1000 st)	175 lb/ac (4 lb/ 1000 st)	2 tons/ac (100 lb/ 1000 st)
MIX 8	REED CANARYGRASS (75%) REDTOP (6%) PLUS BIRDSFOOT TREEFOIL (19%)	40 LBS./ ACRE 3 LBS./ ACRE 10 LBS./ACRE	3/1–5/15 8/16–11/15	WET TO MODERATELY DRY				
MIX 10	TALL FESCUE (80%) HARD FESCUE (20%)	120 LBS./ ACRE 30 LBS./ ACRE	3/1–5/15 8/16–11/15	WET TO DRY				

SECTION IV – SOD TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER)

A. GENERAL SPECIFICATIONS

i. CLASS OF TURFGRASS SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED OR APPROVED. SOD LABELS SHALL BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.

ii. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4", PLUS OR MINUS 1/4", AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH. INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.

iii. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.

iv. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

v. SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

B. SOD INSTALLATION

i. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, THE SUBSOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD.

ii. THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.

iii. WHEREVER POSSIBLE, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. SOD SHALL BE ROLLED AND TAMPED, PEGGED, OR OTHERWISE SECURED TO PREVENT SLIPPAGE ON SLOPES AND TO ENSURE SOLID CONTACT BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.

iv. SOD SHALL BE WATERED IMMEDIATELY FOLLOWING ROLLING OR TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING, AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

C. SOD MAINTENANCE

i. IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4". WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO PREVENT WILTING.

ii. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.

iii. THE FIRST MOWING OF SOD SHOULD NOT BE ATTEMPTED UNTIL THE FINAL SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF SHALL BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2" AND 3", UNLESS OTHERWISE SPECIFIED.

SECTION V – TURFGRASS ESTABLISHMENT

AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. AREAS TO RECEIVE SEED SHALL BE TILLED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVELED, AND RAKED TO PREPARE A PROPER SEEDBED. STONES AND DEBRIS OVER 1–1/2 INCHES IN DIAMETER SHALL BE REMOVED. THE RESULTING SEEDBED SHALL BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.

NOTE: CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.

A. TURFGRASS MIXTURES

i. KENTUCKY BLUEGRASS – FULL SUN MIXTURE – FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND THE EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS/1000 SQUARE FEET. A MINIMUM OF THREE BLUEGRASS CULTIVARS SHOULD BE CHOSEN, RANGING FROM A MINIMUM OF 10% TO A MAXIMUM OF 35% OF THE MIXTURE BY WEIGHT.

ii. KENTUCKY BLUEGRASS/PERENNIAL RYE – FULL SUN MIXTURE – FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE/1000 SQUARE FEET. A MINIMUM OF 3 KENTUCKY BLUEGRASS CULTIVARS MUST BE CHOSEN, WITH EACH CULTIVAR RANGING FROM 10% TO 35% OF THE MIXTURE BY WEIGHT.

iii. TALL FESCUE/KENTUCKY BLUEGRASS – FULL SUN MIXTURE – FOR USE IN DROUGHT PRIME AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95% – 100%, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 – 5%. SEEDING RATE: 5 TO 8 POUNDS/1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.

iv. KENTUCKY BLUEGRASS/FINE FESCUE – SHADE MIXTURE – FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30–40% AND CERTIFIED FINE FESCUE AND 60 – 75% SEEDING RATE: 1–1/2 TO 3 POUNDS/1000 SQUARE FEET. A MINIMUM OF 3 KENTUCKY BLUEGRASS CULTIVARS MUST BE CHOSEN, WITH EACH CULTIVAR RANGING FROM A MINIMUM OF 10% TO A MAXIMUM OF 35% OF THE MIXTURE BY WEIGHT.

NOTE: TURFGRASS VARIETIES SHOULD BE SELECTED FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MIMEO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND."

B. IDEAL TIMES OF SEEDING

WESTERN MARYLAND: MARCH 15 – JUNE 1; AUGUST 1 – OCTOBER 1 (HARDINESS ZONES – 5b, 6a)

CENTRAL MARYLAND: MARCH 1 – MAY 15; AUGUST 15 – OCTOBER 15 (HARDINESS ZONES – 6b)

SOUTHERN MARYLAND, EASTERN SHORE: MARCH 1 – MAY 15, AUGUST 15 – OCTOBER 15 (HARDINESS ZONES – 7a, 7b)

C. IRRIGATION

IF SOIL MIXTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2" – 1" EVERY 3 TO 4 DAYS, DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASON, OR ON ADVERSE SITES.

D. REPAIRS AND MAINTENANCE

INSPECT ALL SEEDED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON.

i. ONCE THE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED.

ii. IF THE STAND PROVIDES LESS THAN 40% GROUND COVERAGE, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING RECOMMENDATIONS.

iii. IF THE STAND PROVIDES BETWEEN 40% AND 94% GROUND COVERAGE, OVERSEEDING AND FERTILIZING USING HALF OF THE RATES ORIGINALLY APPLIED MAY BE NECESSARY.

iv. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDINGS ARE SHOWN IN TABLE 24. FOR LAWNS AND OTHER MEDIUM TO HIGH MAINTENANCE TURFGRASS AREAS, REFER TO THE UNIVERSITY OF MARYLAND PUBLICATION, "LAWN CARE IN MARYLAND", BULLETIN NO. 171.

MASTERS\MDE\VEGET.NTS

NOTE TO CONTRACTOR: EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512–4500
(410) 324–4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid
Issued:	May 02, 2007	

Campus Center

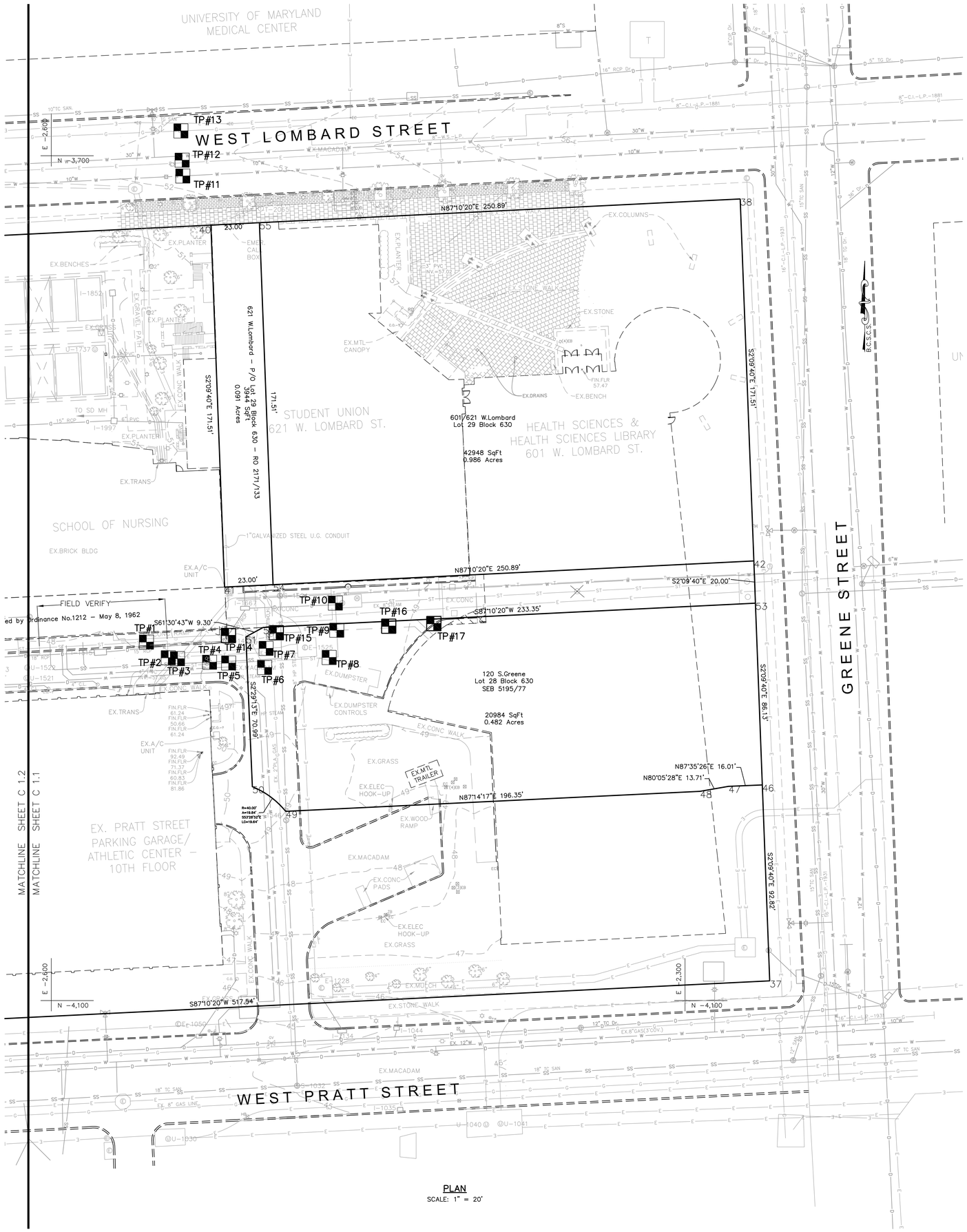
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Erosion and Sediment Control Notes

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

C 4.4



PLAN
SCALE: 1" = 20'

GENERAL NOTES

1. THIS PLAT IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WHITNEY, BAILEY, COX & MAGNANI, LLC (WBCM) IN OCTOBER, 2005 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.

2. HORIZONTAL COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MERIDIAN OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. TRAVERSE STATIONS:

   PT# 903 N -3,893.2399 E -2,207.1864 MAGNAIL
   PT# 904 N -4,092.2504 E -2,196.7747 PK NAIL

3. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE DATUM OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. BENCHMARKS:

   PT# 903 ELEV.= 53.03 MAGNAIL
   PT# 904 ELEV.= 48.03 PK NAIL

4. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.

5. THE LOCATION AND DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

7. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.

TEST PIT SCHEDULE

No.	UTILITY	EX. ELEV.	SOUTHING	WESTING	DEPTH TO TOP	COMMENTS
TP-1	8" STEAM LINE	48.54	3,930.2870	2,554.9518		
TP-2	8" STEAM LINE/ ELEC. DUCT	47.87	3,937.6885	2,554.6200		
TP-3	ELEC. DUCT/ TELECOM.	47.89	3,938.1264	2,540.2522		
TP-4	8"SAN. SEWER/ 8" STEAM	48.02	3,939.8070	2,525.0674		
TP-5	8" SAN. SEWER/ 8" STEAM	48.11	3,940.1544	2,516.0519		
TP-6	2" GAS	48.31	3,942.2757	2,499.0279		
TP-7	ELEC. DUCT	48.28	3,933.2332	2,498.3057		
TP-8	8" STEAM	48.62	3,937.5510	2,468.4429		
TP-9	8" STEAM/ 8" CHILLER LINE(S)	48.48	2,924.6360	2,464.8451		
TP-10	8" STEAM	48.40	3,911.7636	2,465.5026		
TP-11	10" WATER	52.36	3,709.5909	2,537.7423		NEED FOR TEST PIT TO BE DETERMINED PER COORDINATION W/ BGE
TP-12	30" WATER/ ELEC.	52.64	3,702.0868	2,538.0564		NEED FOR TEST PIT TO BE DETERMINED PER COORDINATION W/ BGE
TP-13	8" GAS	52.17	3,688.2325	2,538.6363		NEED FOR TEST PIT TO BE DETERMINED PER COORDINATION W/ BGE
TP-14	EXIST STORM DRAIN (TBR)	47.93	3,927.1541	2,516.1201		
TP-15	CHILLER LINES	48.05	3,925.8367	2,493.4917		
TP-16	CHILLER LINES	48.70	3,922.7389	2,440.2485		
TP-17	CHILLER LINES	49.27	3,921.4944	2,418.9067		

VICINITY MAP
SCALE: 1"=8,333'

LEGEND

DESCRIPTION	EXISTING
BUILDING	Existing Bldg.
PAVING	Existing Paving
CONCRETE WALK	Ex. Conc. Walk
WALL	
COLUMN	
TELECOMMUNICATION	T
GAS	G
ELECTRIC	E
CONC. CURB AND GUTTER	
STORM DRAIN	D
SANITARY	SS
WATER	W
STEAM	ST
VALVE	
HYDRANT	
MANHOLE	Ⓢ
INLET	
STREET LIGHT POLE	
CONTOUR	212 / 210
SPOT ELEVATION	×210.00
FENCE	X
TREES TO REMAIN	
PLANTINGS	
LIMIT OF DISTURBANCE	LOD
TRAVERSE POINT	△
TEST PIT	TP#

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid
Issued:	May 02, 2007	

Campus Center

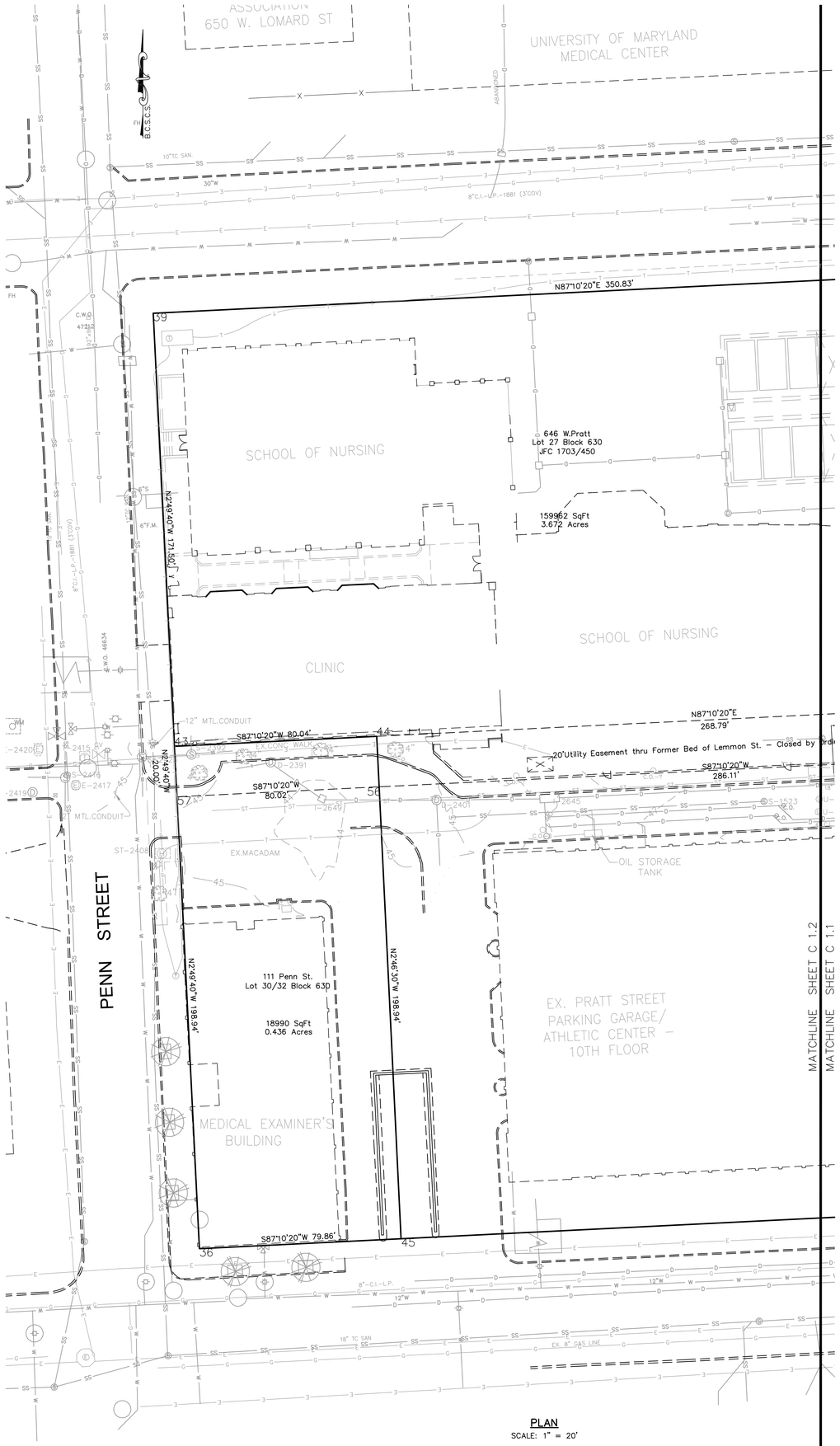
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Existing Conditions Plan & Test Pit Locations

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

C 1.1



PLAN
SCALE: 1" = 20'

GENERAL NOTES

1. THIS PLAT IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WHITNEY, BAILEY, COX & MAGNANI, LLC (WBCM) IN OCTOBER, 2005 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.

2. HORIZONTAL COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MERIDIAN OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. TRAVERSE STATIONS:

   PT# 903 N -3,893.2399 E -2,207.1864 MAGNAIL
   PT# 904 N -4,092.2504 E -2,196.7747 PK NAIL

3. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE DATUM OF THE BALTIMORE CITY SURVEY CONTROL SYSTEM AS DETERMINED FROM THE FOLLOWING B.C.S.C.S. BENCHMARKS:

   PT# 903 ELEV.= 53.03 MAGNAIL
   PT# 904 ELEV.= 48.03 PK NAIL

4. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.

5. THE LOCATION AND DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

6. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

7. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.

VICINITY MAP
SCALE: 1"=8,333'

LEGEND

DESCRIPTION	EXISTING
BUILDING	Existing Bldg.
PAVING	Existing Paving
CONCRETE WALK	Ex. Conc. Walk
WALL	
COLUMN	
TELECOMMUNICATION	T
GAS	G
ELECTRIC	E
CONC. CURB AND GUTTER	
STORM DRAIN	D
SANITARY	SS
WATER	W
STEAM	ST
VALVE	
HYDRANT	
MANHOLE	S
INLET	
STREET LIGHT POLE	
CONTOUR	212 / 210
SPOT ELEVATION	×210.00
FENCE	X
TREES TO REMAIN	
PLANTINGS	
LIMIT OF DISTURBANCE	LOD
TRAVERSE POINT	
TEST PIT	TP#

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT IS AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE REPLYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

AS-BUILT 11-11-08
IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT

Consulting Engineers
849 Fairmount Avenue
Baltimore, Maryland 21286
(410) 512-4500
(410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC

Rev.	Date:	Comment:
3	01/29/10	Record Drawing
2	04/09/07	Bulletin #1
1	02/16/07	Issued For Bid
Issued:	May 02, 2007	

Campus Center

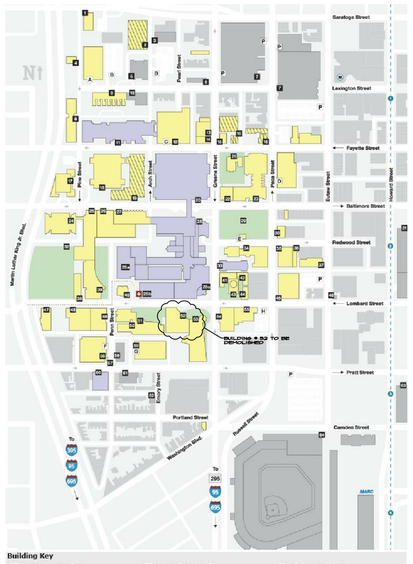
West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

Existing Conditions Plan & Test Pit Locations

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091
 REV.#

C 1.2



Building Key

47 Administration Bldg. 737 W. Lombard St.
49 Allied Health Bldg. 100 Penn St.
59 Athletic Center 10th Floor, Pratt St. Garage
62 Babe Ruth Birthplace/Museum 216 Emory St.
63 Baltimore Convention Center
52 Baltimore Student Union 621 W. Lombard St.
13 Biomedical Research Facility 108 N. Greene St.
27 Brewster Research Bldg. 655 W. Baltimore St.
46 Bromo Seltzer Tower
57 Community Outreach Police Station 700 W. Pratt St.
43 Davidge Hall 522 W. Lombard St.
19 Dental School 666 W. Baltimore St.
3 Downtown Child Care Center 237 N. Arch St.
41 Dr. Samuel D. Harris National Museum of Dentistry 31 S. Greene St.
44 East Hall 520 W. Lombard St.
38 Environmental Health & Safety Bldg. 714 W. Lombard St.
42 Gray Lab 520 W. Lombard St. (rear)
33 Greene St. Bldg. 29 S. Greene St.
18 Hayden-Harris Hall 666 W. Baltimore St.
22 Hilda Katz Blaustein Research Center 550 W. Baltimore St. (Fls. 1 & 5)
25 Health Sciences Facility I 685 W. Baltimore St.
39 Health Sciences Facility II 700 W. Lombard St.
53 Health Sciences & Human Services Library (HS/HSL) 601 W. Lombard St.
5 Hope Lodge 636 W. Lexington St.
26 Howard Hall 660 W. Redwood St.
37 James T. Frenkil Bldg. 16 S. Eutaw St.
7 Lexington Market
55 Lombard Bldg. 515 W. Lombard St.
6 Marriott Center Post Office
15 Maryland Bar Center 520 W. Fayette St.
61 Maryland Institute for Emergency Medical Services Systems 653 W. Pratt St.
40 Maryland Pharmacists Association 650 W. Lombard St.
24 Medical School Teaching Facility (MSTF) 685 W. Baltimore St.
23 Nathan Patz Law Center/ Thurgood Marshall Law Library
64 Oriole Park at Camden Yards 333 W. Camden St.
32 Old St. Paul's Cemetery
12 Parking & Commuter Services Office 622 W. Fayette St.
9 Passodus Row 651-665 W. Lexington St.
50 Pediatric Ambulatory Center 105 S. Penn St.
17 Pharmacy Hall
8 Pharmacy Learning Center 110 N. Pine St.
4 Pine St. Police Station 214 N. Pine St.
10 Ronald McDonald House 635 W. Lexington St.
2 Saratoga Garage
1 Saratoga St. Transfer 663 W. Saratoga St.
51 School of Nursing 655 W. Lombard St.
34 School of Social Work 525 W. Redwood St.
58 State Medical Examiners Building 111 Penn St.
48 UM Biotechnology Institute 721 W. Lombard St.
45 UM Family Medicine 29 S. Paca St.
56 UM Women's Health 120 Penn St.
28 UM Medical Center (UMMC) 22 S. Greene St.
28c Homer Gudelsky Bldg. Lombard & Greene Sts.
28a Shock Trauma Center Lombard & Penn Sts.
28b Weinberg Building Lombard St.
35 UM Professional Bldg. 419 W. Redwood St.
29 University Plaza
30 University Square Bldg. 11 S. Paca St.
16 University Suites at UMB 500 W. Fayette St. Tower
518 W. Fayette St.
20 Veterans Affairs Medical Center 10 N. Greene St.
11 Walter P. Carter Center 630 W. Fayette St.
21 Westminster Hall 529 W. Fayette St.
31 1st Mariner Arena 201 W. Baltimore St.
14 100 N. Greene St.
54 111 S. Greene St.
36 405 W. Redwood St.
60 701 W. Pratt St.

CAMPUS PLAN
NO SCALE

NORTH

RECORD DRAWING
01/29/2010

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEIOUS INFORMATION PROVIDED BY OTHERS. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE

NOTES:
1. CONTROL DUST BY WETTING DEBRIS DURING DEMOLITION

EXISTING FIRE PUMP TEST CONNECTION DO NOT BLOCK.
CONC. DUMPSTER PAD
EXISTING CANOPY TO BE REMOVED
EXISTING LOUVERS DO NOT BLOCK
SEE MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR UTILITY DEMOLITION
SEE MECHANICAL DRAWINGS FOR DEMOLITION IN THIS AREA
LEMMON STREET
SEE DRAWING CD1.1 FOR SITE DEMOLITION
RELOCATED SCHOOL OF NURSING LOADING DOCK SIGN.
RELOCATE SCHOOL OF NURSING LOADING DOCK SIGN.
SEE STRUCTURAL DRAWINGS FOR STEAM TUNNEL WORK IN THIS AREA
EXISTING CONC. STEP, TO REMAIN
STEAM MANHOLE
CONC. PAD
FREIGHT ELEV. TO FIRST FLOOR
STAIR "B"
APPROXIMATE LINE OF SHORING SEE DRAWING SD1.1
EXISTING VENTS SEE MECHANICAL DRAWINGS
TEMPORARY BUILDING EXIT
SERVICE ELEV. TO SECOND FLOOR
INFILL ALL OPENINGS WITH CONCRETE BLOCK TO MATCH EXISTING & INSTALL EIFS SYSTEM OVER 1-1/2" RIGID INSULATION TO UNCOVERED FACE OF NURSING BUILDING
APPROX. LINE OF SHORING
MECH. SHAFT
PASSENGER ELEVS. TO FIFTH FLOOR.
PARTITION A
BUILDING OUTLINE ABOVE SECOND FLOOR TO BE REMOVED
TEMPORARY BUILDING EXIT SEE PLAN 2 ON SHEET AD1.3
RELOCATE EXISTING BENCHES TO WEST OF CONSTRUCTION FENCE
COVERED WALKWAY
TEMPORARY BUILDING EXIT
APPROXIMATE LINE OF SHORING SEE STRUCTURAL PLANS
SEE DRAWING CD1.1 FOR SITE DEMOLITION
REMOVE EXISTING FOUNDATION WALL
STAIR "A"
REMOVE CONCRETE SCULPTURE, LOCATED UNDER STAIR, PROTECT FROM DAMAGE, RELOCATE TO NORTHWEST CORNER OF THIS COURTYARD.
SEE SEDIMENT AND EROSION CONTROL PLAN FOR CONSTRUCTION FENCE LOCATION
APPROXIMATE LINE OF SHORING SEE STRUCTURAL PLANS
SEE MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR UTILITY DEMOLITION
SEE MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR UTILITY DEMOLITION
SEE DRAWING CD1.1 FOR SITE DEMOLITION
SHORING LINE FOR REFERENCE ONLY, SEE SD1.1
SEE DRAWING CD1.1 FOR SITE DEMOLITION
EXISTING LIBRARY TO REMAIN
BUILDING TO BE DEMOLISHED
EXIST. NURSING BUILDING TO REMAIN
LOMBARD STREET
RELOCATED CONCRETE SCULPTURE

1 AD1.1 GROUND FLOOR PLAN
SCALE : 3/32" = 1'-0"
NORTH

2 AD1.1 COURTYARD PLAN
NO SCALE

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX
ASSOCIATE ARCHITECT:

WBCM, – Architects
Whitney Bailey Cox & Magnani, LLC –
Consulting Engineers
849 Fairmount Ave. Suite 100
Baltimore, MD 21286 (410) 512-4500

Rev.	Date:	Comment:
0	06/27/06	Issued for Bid

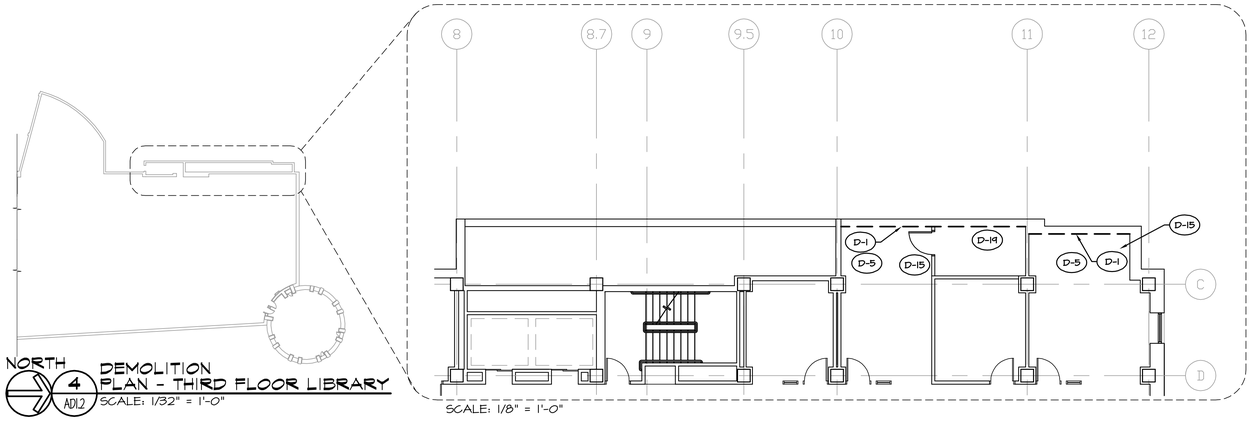
Issued: JUNE 27, 2006

Campus Center
621 West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

DEMOLITION GROUND FLOOR PLAN

100% CONSTRUCTION DOCUMENTS

AD1.1



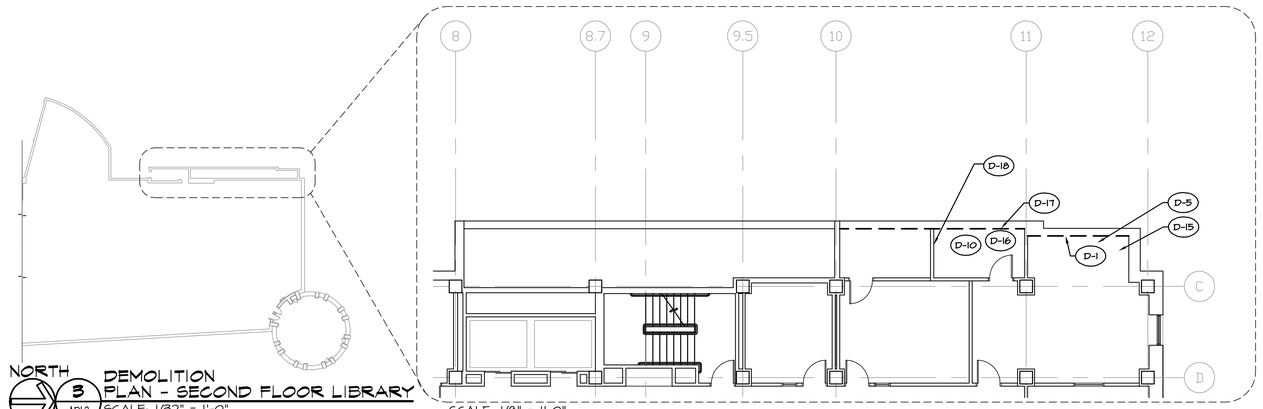
NORTH

4 AD1.2

DEMOLITION PLAN - THIRD FLOOR LIBRARY

SCALE: 1/32" = 1'-0"

SCALE: 1/8" = 1'-0"



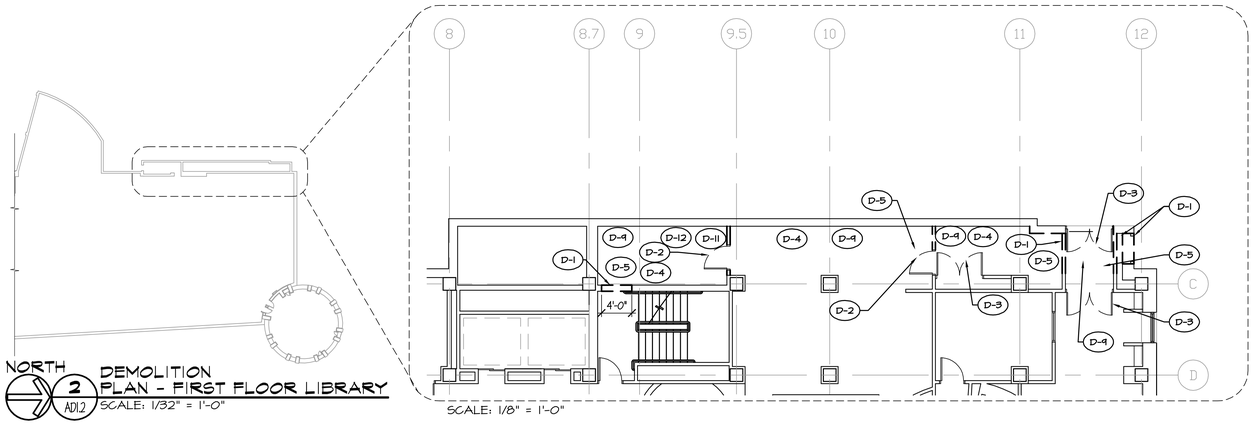
NORTH

3 AD1.2

DEMOLITION PLAN - SECOND FLOOR LIBRARY

SCALE: 1/32" = 1'-0"

SCALE: 1/8" = 1'-0"



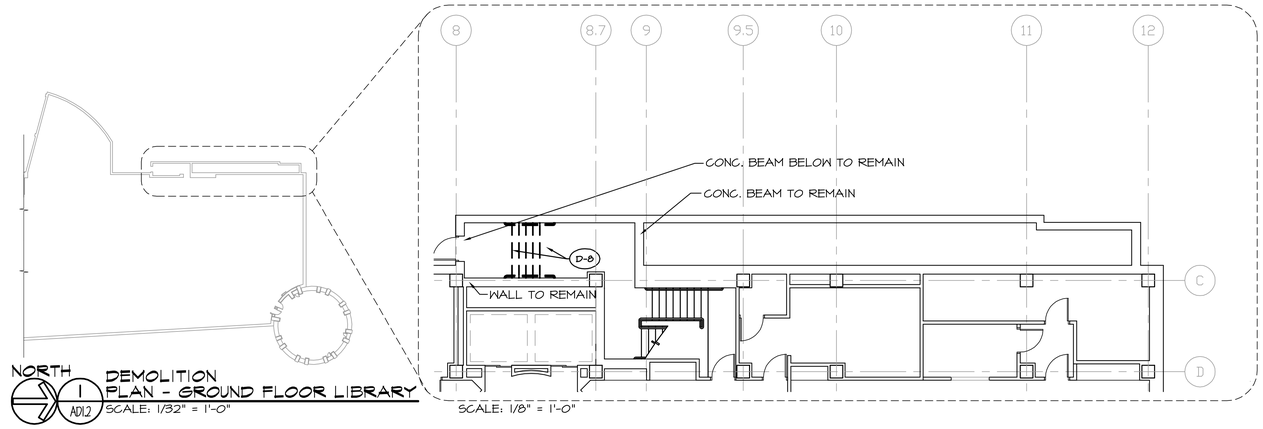
NORTH

2 AD1.2

DEMOLITION PLAN - FIRST FLOOR LIBRARY

SCALE: 1/32" = 1'-0"

SCALE: 1/8" = 1'-0"



NORTH

1 AD1.2

DEMOLITION PLAN - GROUND FLOOR LIBRARY

SCALE: 1/32" = 1'-0"

SCALE: 1/8" = 1'-0"

LIBRARY DEMOLITION NOTES:

D-1 REMOVE WALL.

D-2 REMOVE WALL, DOOR, FRAME AND HDW. DELIVER DOOR & FRAME TO OWNER.

D-3 REMOVE PAIR OF DOORS. DELIVER DOOR & FRAME TO OWNER.

D-4 REMOVE CEILING AND SUSPENSION SYSTEM.

D-5 REMOVE FLOOR COVERING AND BASE.

D-6 NOT USED.

D-7 ALTER SUSPENDED CEILING AND FLOOR COVERING TO FIT NEW PARTITION.

D-8 REMOVE STAIR AND FLOOR SLAB, CEILING, LIGHTING, WIRING, AND MECHANICAL ITEMS.

D-9 PROTECT EXPOSED COMPUTER RISERS W/ METAL STUD & GYP BOARD FURRING W/ ACCESS PANELS.

D-10 PROTECT SERVER FROM DAMAGE.

D-11 NOT USED.

D-12 REMOVE CHALKBOARD.

D-13 NOT USED

D-14 NOT USED.

D-15 REMOVE CEILING AND SUSPENSION SYSTEM TO THE EXTENT REQUIRED FOR INSTALLATION OF NEW WORK.

D-16 REMOVE TRANSFORMER DISCONNECT SWITCH AND WIRING.

D-17 REMOVE PLYWOOD FROM EXTERIOR WALL.

D-18 RELOCATE EXISTING TELECOM RACK BY OWNER.

D-19 REMOVE STORED ITEMS BY OWNER.

GENERAL NOTE:
TAG REMOVED DOORS AND FRAMES AS TO ROOM AND FLOOR NUMBER. STORE IN LIBRARY BASEMENT MECHANICAL ROOM ON EMPTY CHILLER PAD. COVER WITH PLASTIC.

RECORD DRAWING
01/29/2010

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT:

WBCM, – Architects
Whitney Bailey Cox & Magnani, LLC –
Consulting Engineers
849 Fairmount Ave. Suite 100
Baltimore, MD 21286 (410) 512-4500

0 06/27/06 Issued for Bid
Rev. Date: Comment:
Issued: JUNE 27, 2006

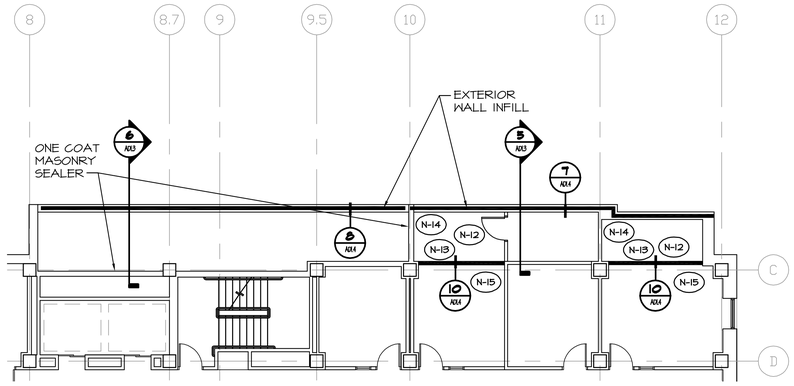
Campus Center
621 West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

LIBRARY DEMOLITION

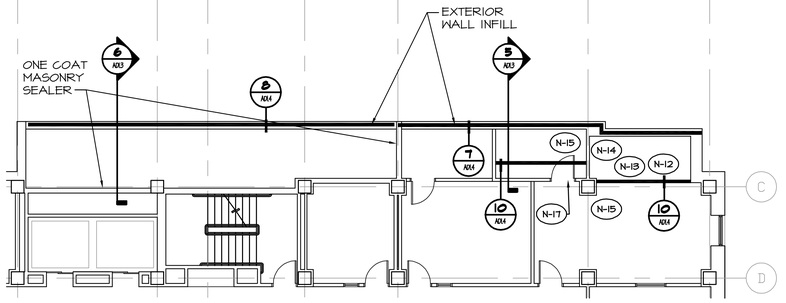
100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

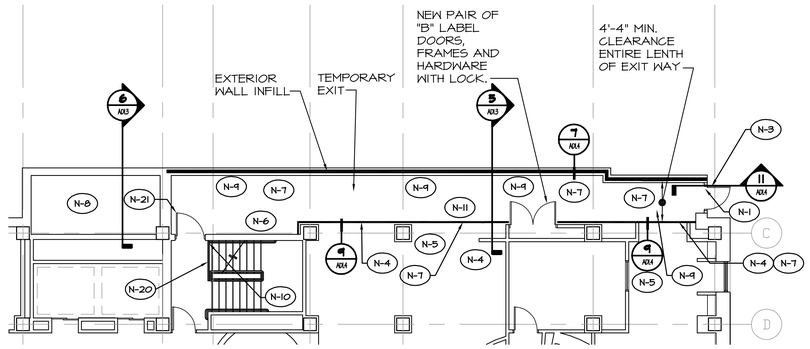
AD1.2



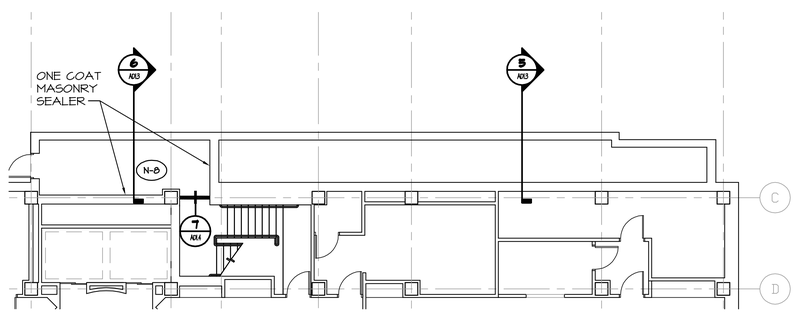
NORTH — 4 AD1.3 — NEW WORK PLAN - THIRD FLOOR LIBRARY
SCALE: 1/8" = 1'-0"



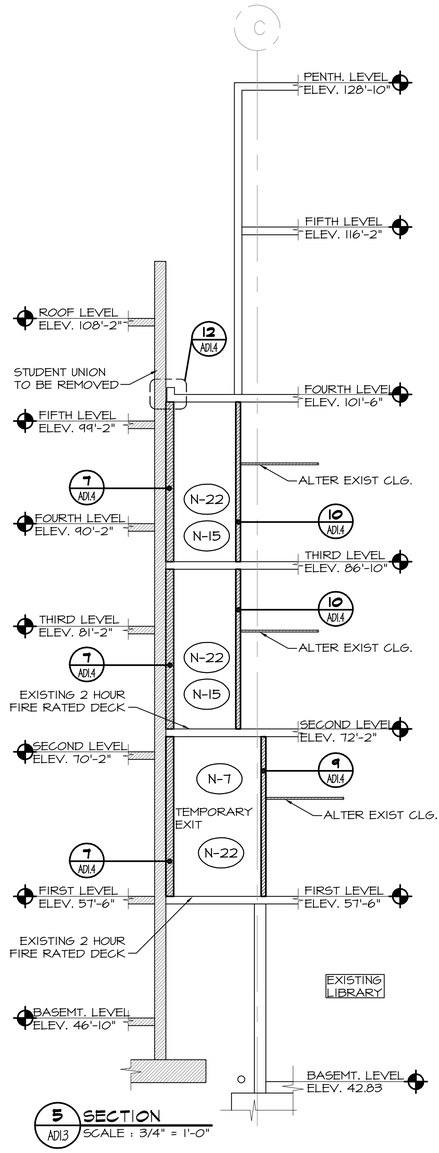
NORTH — 3 AD1.3 — NEW WORK PLAN - SECOND FLOOR LIBRARY
SCALE: 1/8" = 1'-0"



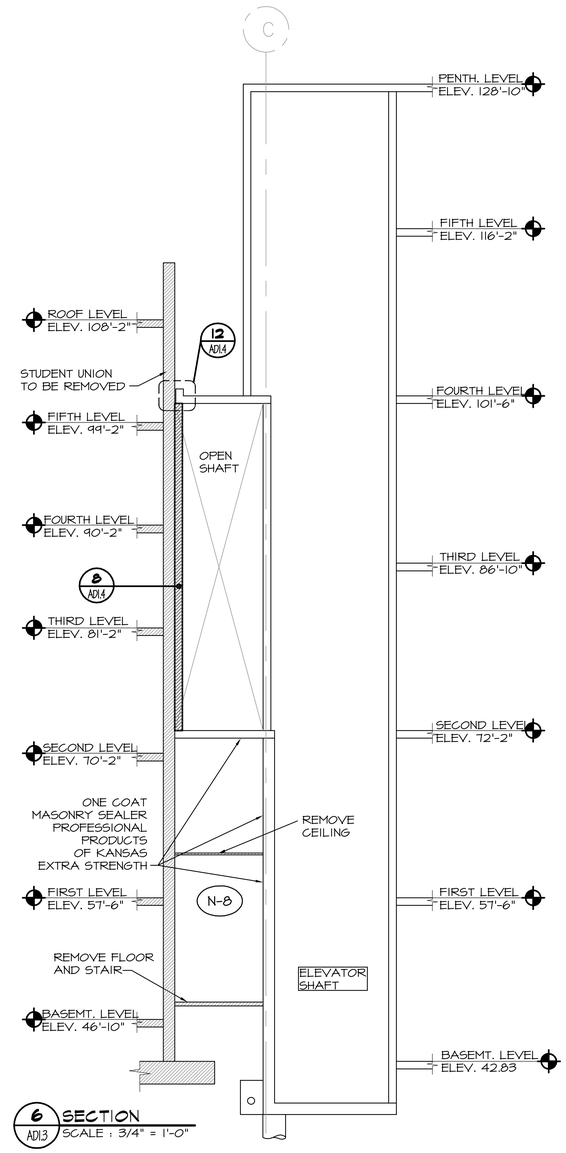
NORTH — 2 AD1.3 — NEW WORK PLAN - FIRST FLOOR LIBRARY
SCALE: 1/8" = 1'-0"



NORTH — 1 AD1.3 — NEW WORK PLAN - GROUND FLOOR LIBRARY
SCALE: 1/8" = 1'-0"



5 AD1.3 — SECTION
SCALE : 3/4" = 1'-0"



6 AD1.3 — SECTION
SCALE : 3/4" = 1'-0"

LIBRARY NEW WORK NOTES:

- N-1 INSTALL HOLLOW METAL DOOR AND FRAME, 3'-0" X 7'-0" X 1 3/4" WITH PANIC HARWARE. PAINT DOOR AND FRAME TO MATCH COLOR OF EXISTING MASONRY AMWELD 400 SERIES 14 GAUGE STEEL FRAME 3 EXPANSION ANCHORS PER JAMB AMWELD 700 SERIES 16 GAUGE STEEL DOOR 1-1/2 PAIR HINGES, STANDARD WEIGHT, 5 KNUCKLE, FULL MORTISE, BALL BEARING, 4-1/2 X 4-1/2, US 32D, STANLEY FBB199 VON DUPRIN 98/99 RIM DEVICE, NO OUTSIDE TRIM THRESHOLD: NATIONAL GUARD 896 DKB. PERIMETER SEAL: NATIONAL GUARD 110 NDKB. DOOR SWEEP: NATIONAL GUARD 101 VDKB. DOOR SHOE: NATIONAL GUARD 314 VDKB. 3 SILENCERS LCN 4040-CUSH, ALUM.
- N-2 NOT USED
- N-3 REMOVE DOOR OPENING AT COMPLETION OF CAMPUS CENTER. FILL OPENING WITH MASONRY TO MATCH EXIST.
- N-4 PAINT WALL AND INSTALL BASE TO MATCH EXIST. INSTALL POWER AND DATA OUTLETS AS DIRECTED BY OWNER.
- N-5 ALTER SUSPENDED CEILING AND FLOOR COVERING TO FIT NEW PARTITION.
- N-6 PATCH WALLS AT REMOVED PARTITIONS AND PAINT.
- N-7 WHEN CONSTRUCTION OF NEW CAMPUS CENTER IS COMPLETE, REMOVE TEMPORARY PARTITION 9 AND INSTALL NEW CEILING, FLOOR COVERING, BASE, LIGHTING. PAINT WALLS, RESTORE REMOVED PARTITIONS AND DOOR OPENINGS. RESTORATION TO MATCH ORIGINAL CONSTRUCTION.
- N-8 AT COMPLETION OF NEW BUILDING, RESTORE STAIR AND FLOOR SLAB, CEILING LIGHTING AND WIRING AND MECH. ITEMS TO THEIR ORIGINAL CONDITION, REMOVE TEMP PARTITION, PAINT WALLS, INSTALL FLOOR COVERING.
- N-9 REMOVE CEILING.
- N-10 REMOVE HANDRAIL, ALTER TO MATCH NEW CONDITION AND REINSTALL.
- N-11 PROTECT EXPOSED COMPUTER RISERS W/ METAL STUD & GYP BOARD FURRING. PROVIDE ACCESS PANELS.
- N-12 INSTALL CEILING AND SUSPENSION SYSTEM.
- N-13 INSTALL FLOOR COVERING AND BASE.
- N-14 PAINT WALLS.
- N-15 WHEN CONSTRUCTION OF EXTERIOR WALL IS COMPLETE, REMOVE TEMPORARY PARTITION 10, REMOVE ROOM FLOOR COVERING AND BASE, REMOVE OR ALTER EXISTING CEILING AND SUSPENSION SYSTEM, INSTALL NEW CEILING AND SUSPENSION SYSTEM, FLOOR COVERING, BASE, LIGHTING POWER AND DATA OUTLETS. PAINT WALLS. RESTORE TO MATCH ORIGINAL CONSTRUCTION.
- N-16 NOT USED
- N-17 TAPE DOOR OPENING TO PREVENT DUST TRANSMISSION
- N-18 NOT USED
- N-19 NOT USED
- N-20 INSTALL TEMPORARY METAL RAILING ACROSS STAIR TO BASEMENT, PREVENTING ACCESS TO BASEMENT.
- N-21 INSTALL HOLLOW METAL DOOR AND FRAME AMWELD 400 SERIES, 3'-0" X 7'-0" X 1 3/4" 16 GAUGE STEEL FRAME 3 EXPANSION ANCHORS PER JAMB AMWELD HONEYCOMB CORE 18 GAUGE STEEL DOOR 1 1/2" PAIR HINGES STANDARD WEIGHT 5 KNUCKLE, FULL MORTISE, BALL BEARING, 4 1/2" X 4 1/2", US26D, STANLEY FBB199, VON DUPRIN 98/99 RIM DEVICE, NO OUTSIDE TRIM. 3 SILENCERS LCN 4040-CUSH, ALUM.
- N-22 CONSTRUCT PARTITIONS 9 AND 10 BEFORE CONSTRUCTION OF EXTERIOR WALL 7. CONSTRUCT EXTERIOR WALL 7 BEFORE REMOVAL OF STUDENT UNION BUILDING.

GENERAL NOTES

1. CODE

A. ALL CONSTRUCTION SHALL CONFORM WITH THE PROVISIONS OF THE 2000 INTERNATIONAL BUILDING CODE AND MARYLAND STATE FIRE PREVENTION CODE.

2. DESIGN LOADING

A. THE DESIGN LOAD IS AS FOLLOWS:

BASIC WIND SPEED (V) = 90 MPH
WIND LOAD IMPORTANCE FACTOR (I) = 1.15
WIND EXPOSURE = B
WIND DESIGN PRESSURE = 15 PSF (WINDWARD, MAIN FORCE RESISTING)

B. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE METHODS OF CONSTRUCTION AND SHALL PROVIDE ALL GUYS, BRACING AND SHORING REQUIRED TO ACCOMMODATE ALL INTERIM LOADING CONDITIONS THROUGHOUT THE CONSTRUCTION PHASE.

3. GENERAL

A. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING WORK PRIOR TO FABRICATION OF ANY NEW MATERIALS.

B. THE CONTRACTOR IS ADVISED THAT ALL PLANS, DIMENSIONS, AND DETAILS DEPICT FIELD CONDITION AS SHOWN. MINOR VARIATIONS ARE TO BE EXPECTED AND ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO PROCEEDING.

C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE EXISTING BUILDINGS DURING THE COURSE OF CONSTRUCTION AND IMMEDIATELY ADVISE THE ARCHITECT OF ANY AREAS WHERE THE STRUCTURE EXHIBITS DISTRESS OR FAILURE.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE LOCATION OF ANY & ALL UTILITIES IN THE IMMEDIATE VICINITY OF CONSTRUCTION SO AS TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH UTILITIES OCCUR THE CONTRACTOR SHALL BE REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.

E. THE CONTRACTOR SHALL EXERCISE CARE DURING CONSTRUCTION AS REQUIRED TO MAINTAIN THE STABILITY OF EXISTING CONSTRUCTION.

F. ANY REVIEW OF STRUCTURAL ITEM SHOP DRAWINGS BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE.

G. AT THE TIME OF SHOP DRAWING SUBMISSION, THE GENERAL CONTRACTOR SHALL STATE IN WRITING ANY DEVIATION OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMISSION AND MAKE ALL CORRECTIONS AS HE DEEMS NECESSARY.

H. SUBMIT SHOP DRAWINGS FOR ALL AREAS IN THEIR ENTIRETY.

J. ALL CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. THE REVIEW OF THE RE-SUBMITTALS WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMISSION.

K. THE STRUCTURAL CONTRACT DOCUMENTS ARE NOT TO BE REPRODUCED FOR USE AS SHOP DRAWINGS.

L. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTRACTOR. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION OR FOR THE DESIGN OF THE PROJECT.

4. METAL STUDS

A. ALL LIGHTWEIGHT COLD FORMED STEEL FRAMING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE'S "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS."

B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INCLUDING WALL ELEVATIONS INDICATING THE SIZE, LOCATION AND CAPACITY OF ALL MEMBERS AND CONNECTIONS.

C. ALL LIGHT-GAGE STUDS 16 GAGE AND HEAVIER SHALL CONFORM TO ASTM A 446-(LATEST LOCAL APPROVED) GRADE D HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.

D. ALL WELDING OF LIGHT-GAGE STUDS SHALL BE PERFORMED BY WELDERS WHICH WILL BE CERTIFIED FOR THIS PROJECT IN THE WELDING OF LIGHT GAGE MEMBERS. CERTIFICATION OF WELDERS AND PREPARATION OF WELDING PROCEDURES WILL BE COMPLETED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY'S MANUAL AWS D1.3 PRIOR TO PROCEEDING WITH ANY LIGHT GAGE WELDING. ALL WELDS AND THE SURROUNDING AREA SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP2 OR SP3 AND SHALL RECEIVE AN APPLICATION OF A ZINC RICH INORGANIC PAIN SUCH AS TNEMEC ZINC 90-92.

E. ALL LIGHT-GAGE STUDS SHALL BE SAW CUT, SQUARE AND TRUE. CUTTING OF METAL STUDS WITH A TORCH SHALL NOT BE PERMITTED.

F. PROVIDE MINIMUM OF ONE ROW OF WALL BRIDGING AT MID-HEIGHT OF STUDS, 5'-0" MAX.

G. ALL STRUCTURAL METAL STUDS SHALL BE DESIGNED BY THE CONTRACTOR. METAL STUD CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. SUBMIT CALCULATIONS TO ARCHITECT FOR APPROVAL.

H. WHERE REQUIRED, TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS COMPLETELY STABILIZED.

RECORD DRAWING
01/24/2010

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEIOUS INFORMATION PROVIDED BY OTHERS. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT:

WBCM, — Architects
Whitney Bailey Cox & Magnani, LLC —
Consulting Engineers
849 Fairmount Ave. Suite 100
Baltimore, MD 21286 (410) 512-4500

0 06/27/06 Issued for Bid
Rev. Date: Comment:
Issued: JUNE 27, 2006

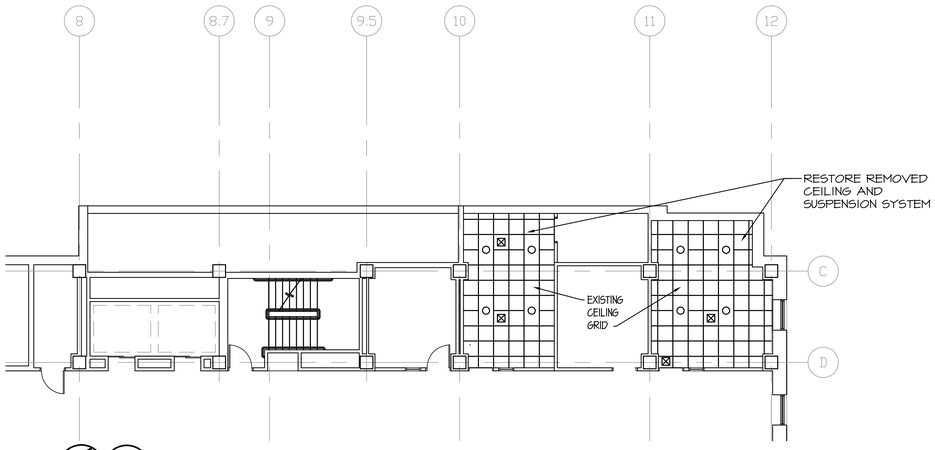
Campus Center
621 West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

LIBRARY NEW WORK

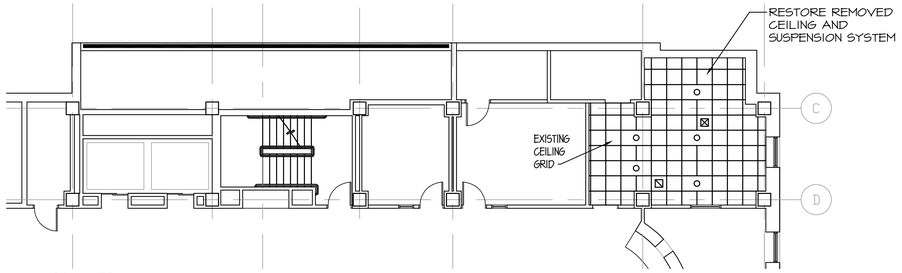
100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

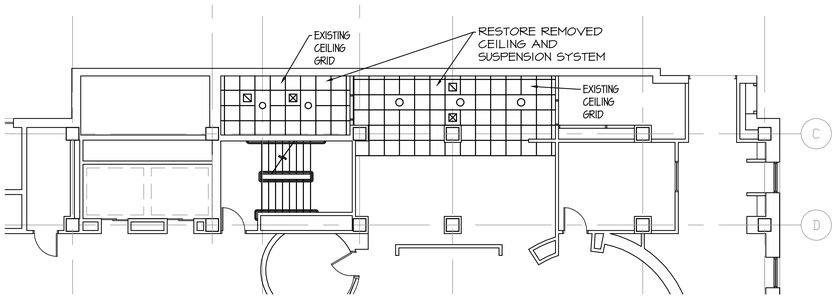
AD1.3



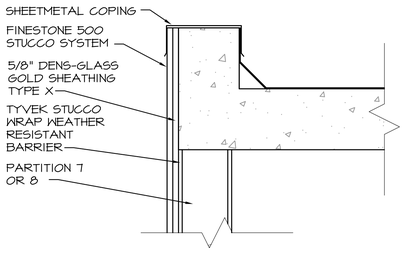
15 AD1.4 **REFLECTED CEILING PLAN - THIRD FLOOR LIBRARY**
SCALE: 1/8" = 1'-0"



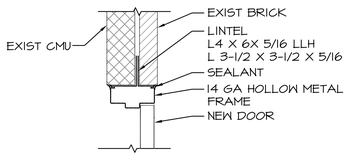
14 AD1.4 **REFLECTED CEILING PLAN - SECOND FLOOR LIBRARY**
SCALE: 1/8" = 1'-0"



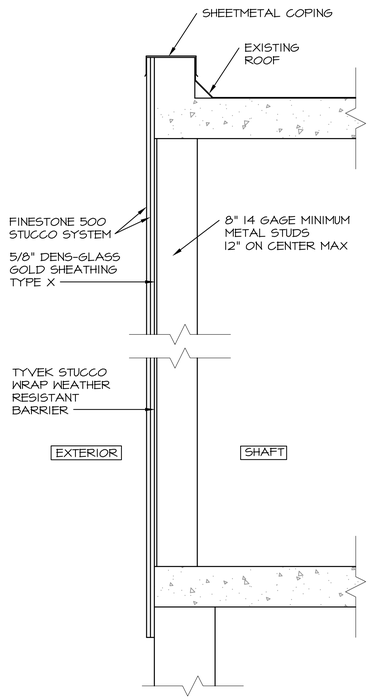
13 AD1.4 **REFLECTED CEILING PLAN - FIRST FLOOR LIBRARY**
SCALE: 1/8" = 1'-0"



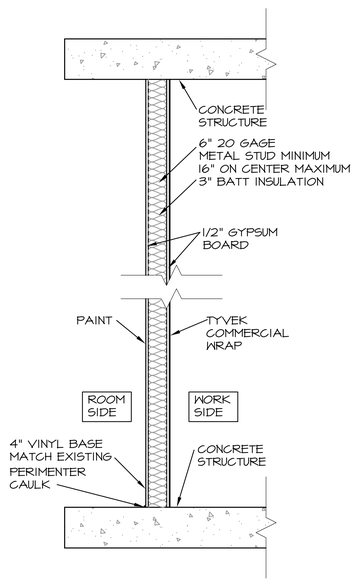
12 AD1.4 **DETAIL**
SCALE : 1-1/2" = 1'-0"



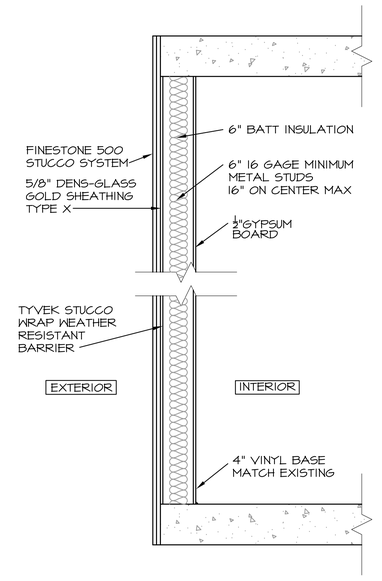
11 AD1.4 **NEW EXIT DOOR HEAD**
SCALE : 1-1/2" = 1'-0"



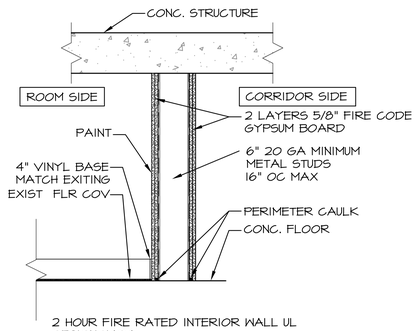
8 AD1.4 **EXTERIOR WALL**
SCALE : 1" = 1'-0"



10 AD1.4 **TEMPORARY PARTITION**
SCALE : 1" = 1'-0"



7 AD1.4 **EXTERIOR WALL**
SCALE : 1" = 1'-0"



2 HOUR FIRE RATED INTERIOR WALL UL DESIGN U404

9 AD1.4 **TEMPORARY PARTITION**
SCALE : 1" = 1'-0"

RECORD DRAWING
01/29/2010

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEIOUS INFORMATION PROVIDED BY OTHERS. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX
ASSOCIATE ARCHITECT:
WBCM, – Architects
Whitney Bailey Cox & Magnani, LLC –
Consulting Engineers
849 Fairmount Ave. Suite 100
Baltimore, MD 21286 (410) 512-4500

Rev. 0 Date: 06/27/06 Comment: Issued for Bid
Issued: JUNE 27, 2006

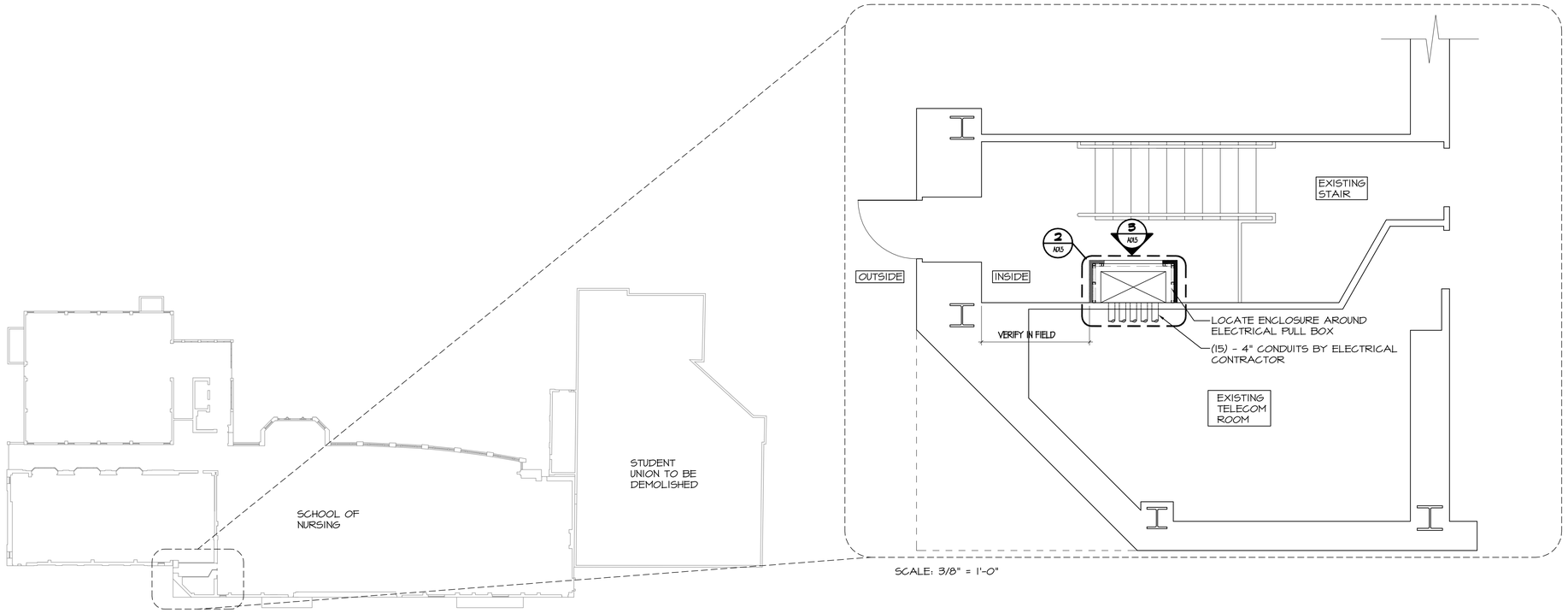
Campus Center
621 West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

LIBRARY NEW WORK

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

AD1.4

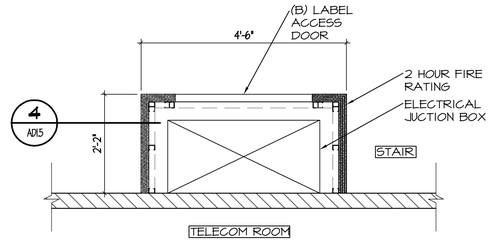


NORTH

1 AD1.5 SCHOOL OF NURSING - NEW WORK

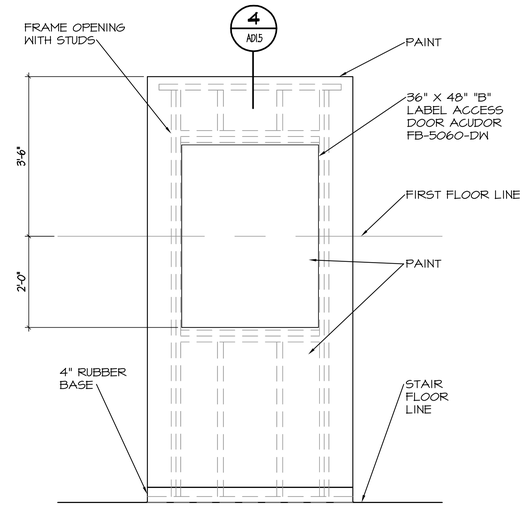
SCALE: 1/32" = 1'-0"

SCALE: 3/8" = 1'-0"



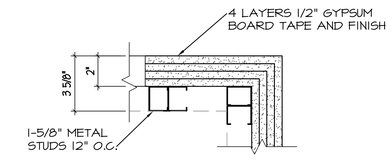
2 AD1.5 PLAN SECTION

SCALE: 3/4" = 1'-0"



3 AD1.5 ELEVATION

SCALE: 3/4" = 1'-0"



4 AD1.5 DETAIL

SCALE: 3" = 1'-0"

Advertising Coordinator/Graphic Design Specialist

Desktop Publishing Specialist

RECORD DRAWING

01/29/2010

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT:

WBCM, – Architects
Whitney Bailey Cox & Magnani, LLC – Consulting Engineers
849 Fairmount Ave. Suite 100
Baltimore, MD 21286 (410) 512-4500

0 06/27/06 Issued for Bid
Rev. Date: Comment:
Issued: JUNE 27, 2006

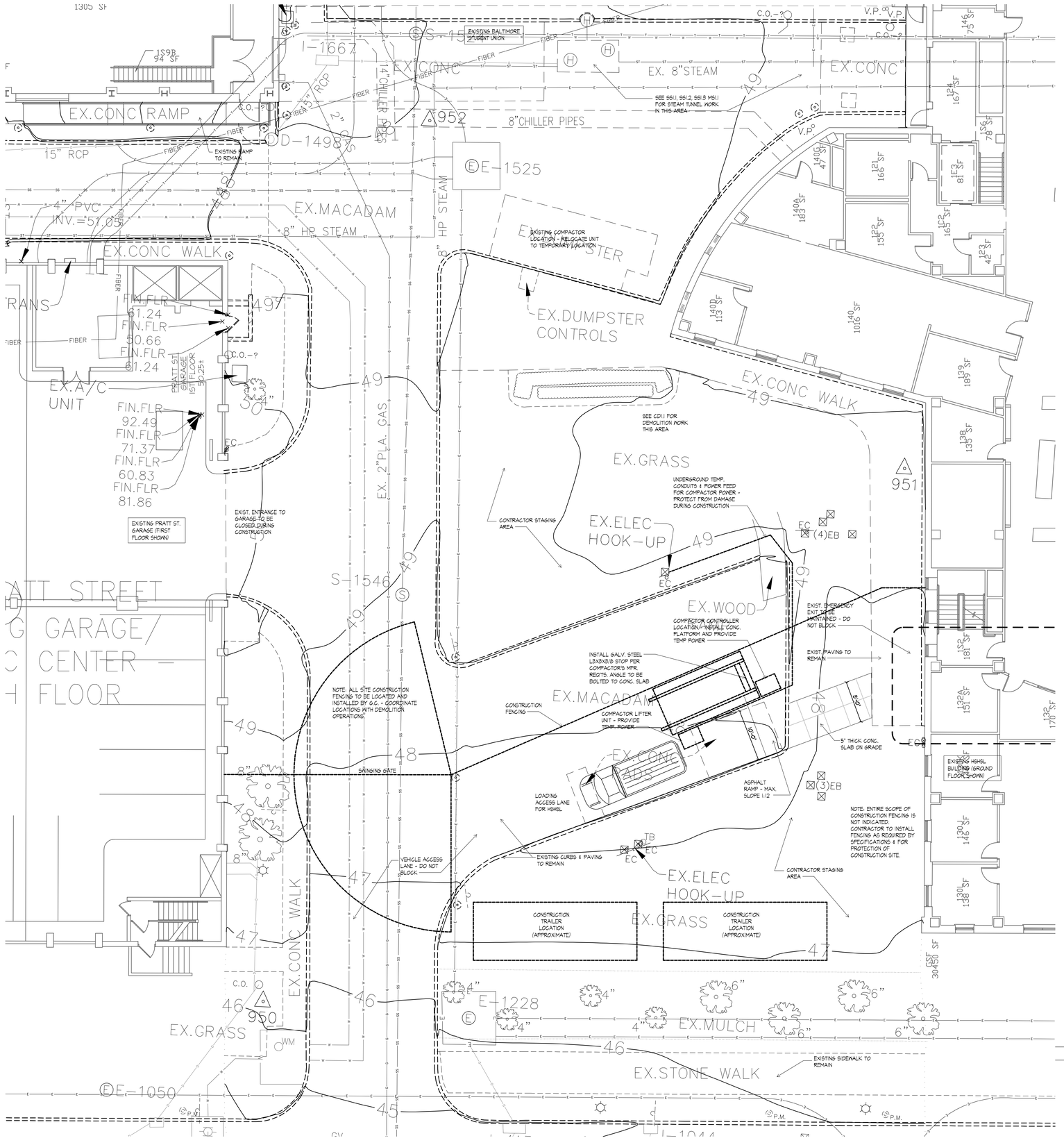
Campus Center
621 West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

SCHOOL OF NURSING NEW WORK

100% CONSTRUCTION DOCUMENTS

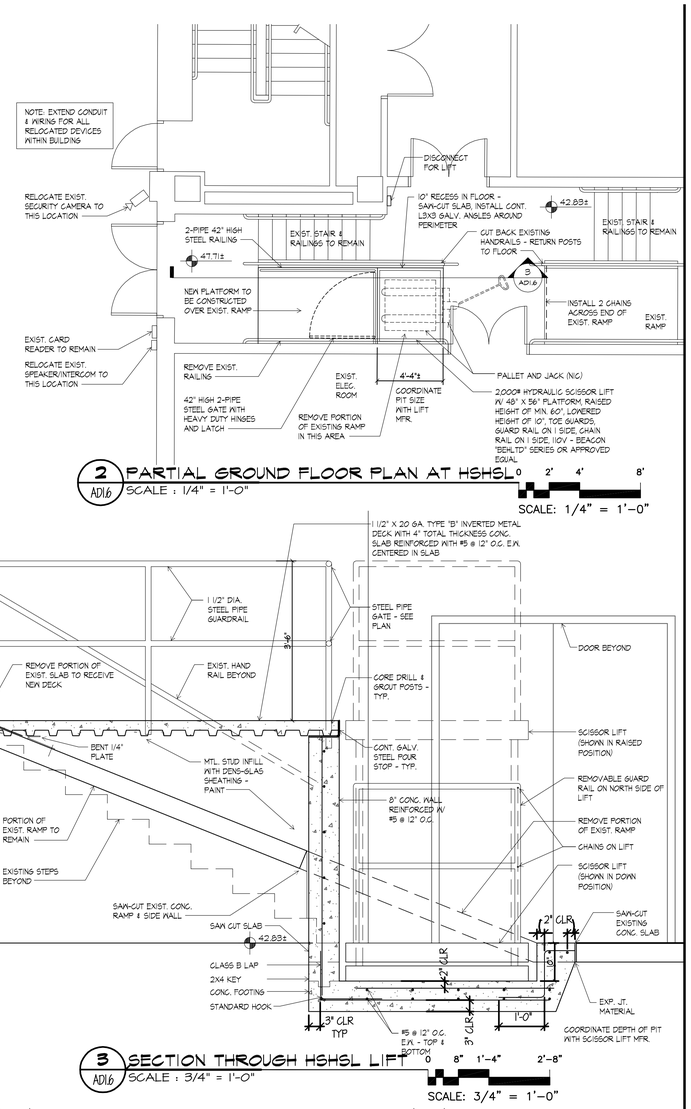
UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

AD1.5



1 PARTIAL PLAN
AD1.6 SCALE : 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

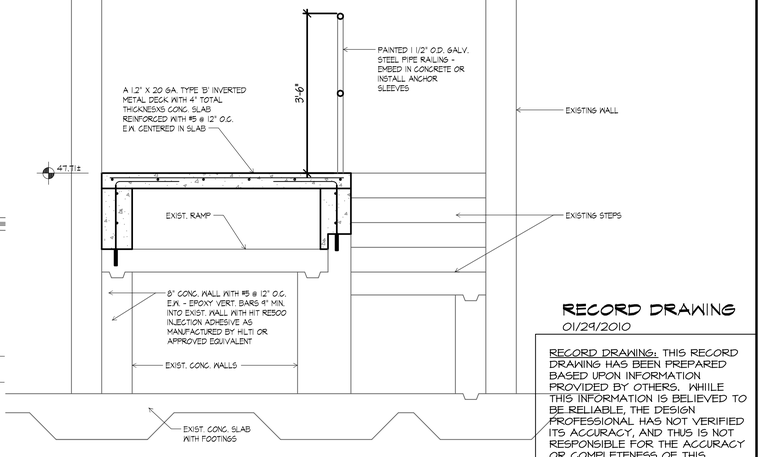


2 PARTIAL GROUND FLOOR PLAN AT HSHSL
AD1.6 SCALE : 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

3 SECTION THROUGH HSHSL LIFT
AD1.6 SCALE : 3/4" = 1'-0"

0 8" 1'-4" 2'-8"
SCALE: 3/4" = 1'-0"



4 SECTION THROUGH HSHSL PLATFORM
AD1.6 SCALE : 3/4" = 1'-0"

0 8" 1'-4" 2'-8"
SCALE: 3/4" = 1'-0"

RECORD DRAWING
01/29/2010

RECORD DRAWING: THIS RECORD DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL HAS NOT VERIFIED ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT:

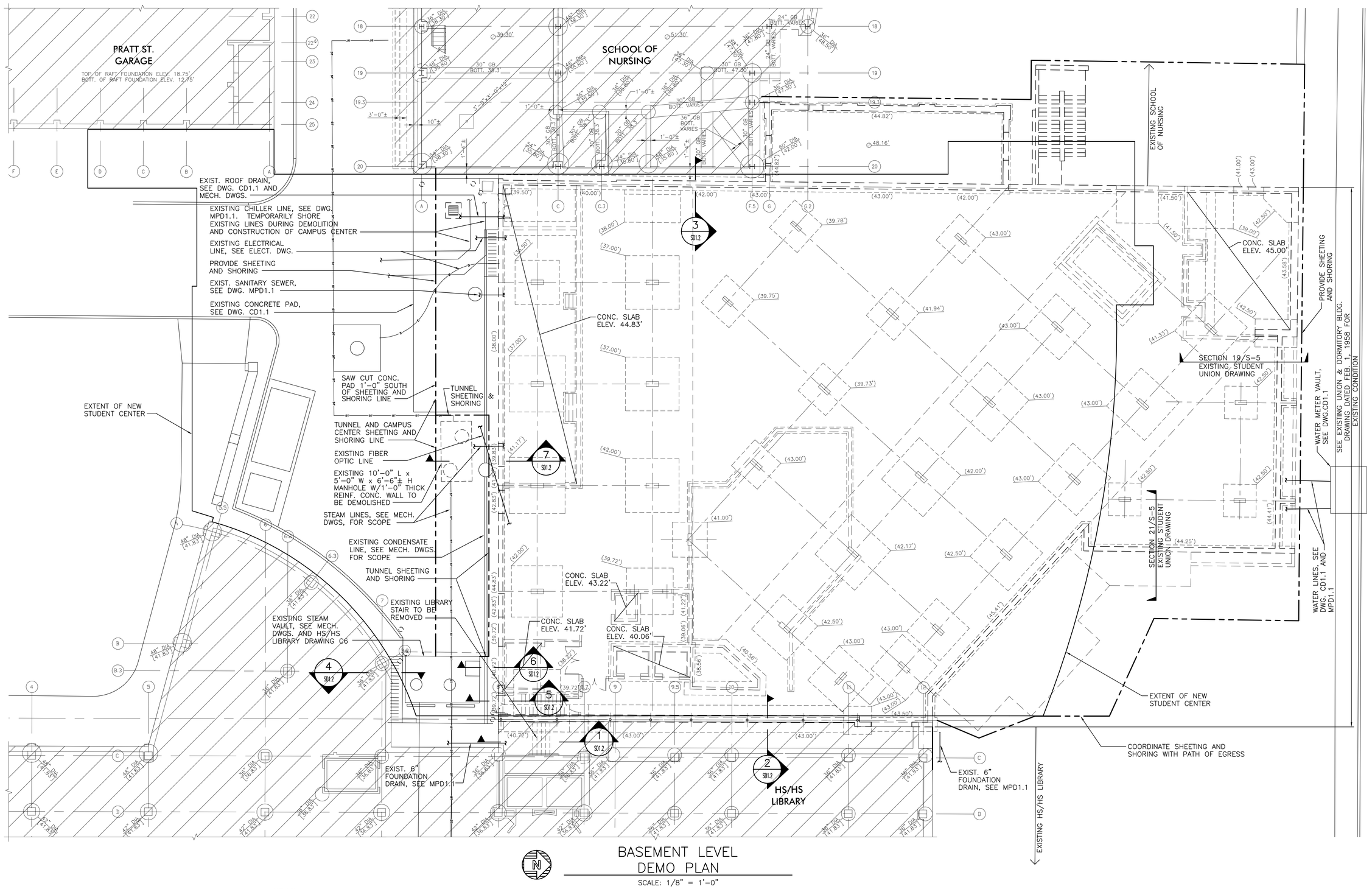
WBCM, – Architects
Whitney Bailey Cox & Magnani, LLC –
Consulting Engineers
849 Fairmount Ave, Suite 100
Baltimore, MD 21286 (410) 512-4500

Rev.	Date:	Comment:
0	05/02/07	For Construction
Issued:	May 2, 2007	

Campus Center

621 West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091



BASEMENT LEVEL DEMO PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. ▨, STRUCTURES TO REMAIN.
2. EXISTING STUDENT UNION BUILDING BASEMENT TOP OF CONCRETE SLAB ELEVATION ASSUMED TO BE 46.83', U.N.O. ON PLAN.
3. (XX.00'), DENOTES BOTTOM OF FOOTING ELEVATION.
4. ⊡ CAISSON DIAMETER / [XX.XX] TOP OF CAISSON ELEV.
5. ALL EXISTING ELEVATIONS AND FOUNDATION SYSTEM ARE ASSUMED TO BE "AS-BUILT" IN ACCORDANCE WITH THE FOLLOWING ORIGINAL CONTRACT DOCUMENTS:

   SCHOOL OF NURSING – CONTRACT DOCUMENT DATED 6/28/96
   UNION & DORMITORY BLDG. FOR THE UNIVERSITY OF MARYLAND – CONTRACT DOCUMENT DATED 2/1/58
   HEALTH SCIENCE LIBRARY/INFORMATION SERVICE BUILDING (HS/HS LIBRARY) – CONTRACT DOCUMENT DATED 8/7/95

6. ----, DENOTES STRUCTURE TO BE DEMOLISHED.
7. ———, DENOTES LINE OF SHEETING AND SHORING.
8. ALL DIMENSIONS AND ELEVATIONS SHOWN ARE BASED ON INFORMATION PRESENTED ON EXISTING DOCUMENTS AND MAY VARY.
9. THE STRUCTURAL DRAWINGS ONLY REPRESENT A PORTION OF THE OVERALL WORK PRESENTED ON THE DESIGN DOCUMENTS. THE CONTRACTOR SHALL COORDINATE THE IMPLEMENTATION OF ALL WORK SHOWN ON THE DESIGN DOCUMENTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES.
10. ALL UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS DRAWING. SEE CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL UNDERGROUND WORK NOT SHOWN.

"RECORD DRAWING: This record drawing has been prepared based upon information provided by others. While this information is believed to be reliable, the Design Professional has not verified its accuracy, and thus is not responsible for the accuracy or completeness of this record drawing or for any errors or omissions which may have been incorporated into it as a result of erroneous information provided by others. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose."

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-0431 FAX

ASSOCIATE ARCHITECT:

WBCM, – Architects
Whitney Bailey Cox & Magnani, LLC – Consulting Engineers
849 Fairmount Ave. Suite 100
Baltimore, MD 21286 (410) 512-4500

Rev.	Date:	Comment:
2	01/29/10	Record Drawings
1	05/02/07	Bulletin #10
0	6/27/06	Issued for Bid

Issued: **June 27, 2006**

Campus Center

West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

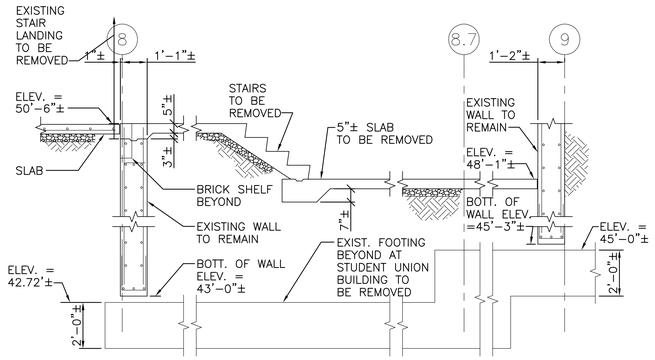
Basement Level Demolition Plan

100% CONSTRUCTION DOCUMENTS

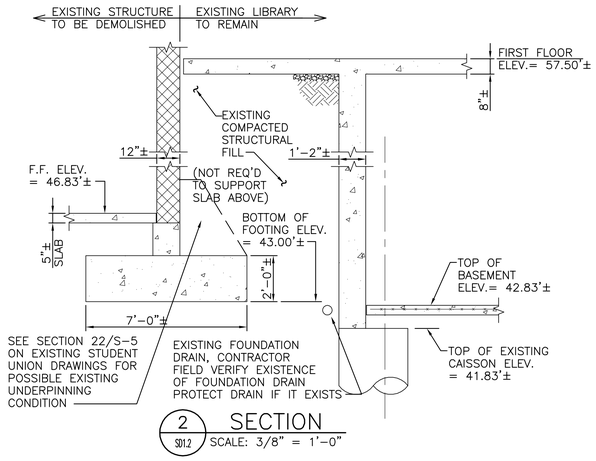
UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

SD1.1

Jan 22, 2010 - 9:07am User: walkins
P:\2005\05034400\Drawings\03-Struct\AS-BUILT\050344-SD1-1_AS-BUILT.dwg



1 SD1.2 SECTION
SCALE: 3/8" = 1'-0"



2 SD1.2 SECTION
SCALE: 3/8" = 1'-0"

GENERAL NOTES

1. GENERAL

A. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE METHODS OF DEMOLITION AND SHALL PROVIDE ALL GUYS, BRACING AND SHORING REQUIRED TO ACCOMMODATE ALL INTERIM LOADING CONDITIONS THROUGHOUT THE DEMOLITION PHASE.

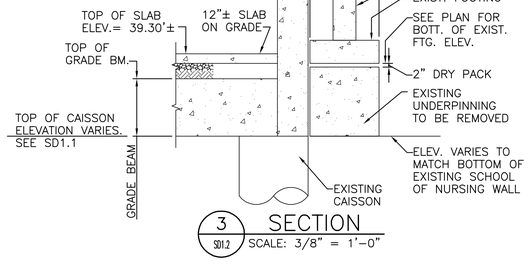
B. THE CONTRACTOR IS ADVISED THAT ALL PLANS, DIMENSIONS, AND DETAILS DEPICT FIELD CONDITION AS SHOWN. MINOR VARIATIONS ARE TO BE EXPECTED AND ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO PROCEEDING.

C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE EXISTING BUILDINGS DURING THE COURSE OF DEMOLITION AND IMMEDIATELY ADVISE THE ARCHITECT OF ANY AREAS OF STRUCTURE THAT IS TO REMAIN EXHIBITS DISTRESS OR FAILURE.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE LOCATION OF ANY & ALL UTILITIES IN THE IMMEDIATE VICINITY OF CONSTRUCTION SO AS TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH UTILITIES OCCUR THE CONTRACTOR SHALL BE REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.

E. THE CONTRACTOR SHALL EXERCISE CARE DURING DEMOLITION AS REQUIRED TO MAINTAIN THE STABILITY OF EXISTING CONSTRUCTION.

F. THE STRUCTURAL DRAWINGS ONLY REPRESENT A PORTION OF THE OVERALL WORK PRESENTED ON THE DESIGN DOCUMENTS. THE CONTRACTOR SHALL COORDINATE THE IMPLEMENTATION OF ALL WORK SHOWN ON THE DESIGN DOCUMENTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES.

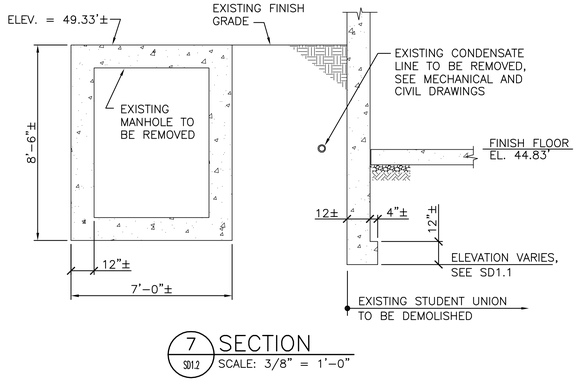


3 SD1.2 SECTION
SCALE: 3/8" = 1'-0"

4 SD1.2 SECTION
SCALE: 3/8" = 1'-0"

5 SD1.2 SECTION
SCALE: 3/8" = 1'-0"

6 SD1.2 SECTION
SCALE: 3/8" = 1'-0"



7 SD1.2 SECTION
SCALE: 3/8" = 1'-0"

"RECORD DRAWING: This record drawing has been prepared based upon information provided by others. While this information is believed to be reliable, the Design Professional has not verified its accuracy, and thus is not responsible for the accuracy or completeness of this record drawing or for any errors or omissions which may have been incorporated into it as a result of erroneous information provided by others. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose."

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

WTW ARCHITECTS
TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT:
WBCM, – Architects
Whitney Bailey Cox & Magnani, LLC –
Consulting Engineers
849 Fairmount Ave, Suite 100
Baltimore, MD 21286 (410) 512-4500

Rev.	Date:	Comment:
1	01/29/10	Record Drawings
0	6/27/06	Issued for Bid

Issued: **June 27, 2006**

Campus Center

West Lombard Street
University of Maryland, Baltimore
Baltimore, MD

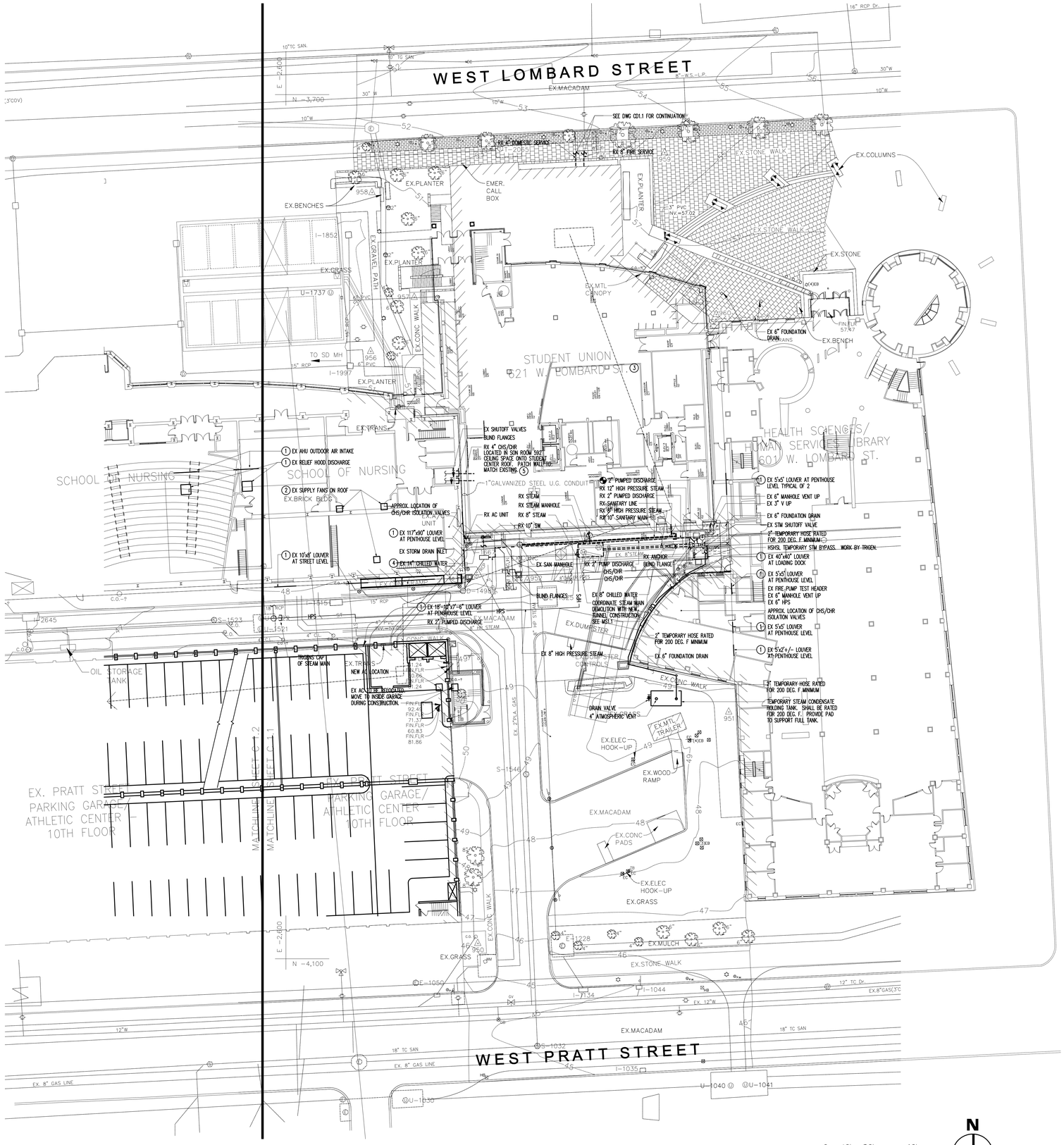
General Notes And Sections

100% CONSTRUCTION DOCUMENTS

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

SD1.2

Jan 22, 2010 - 9:06am User: rawkins
P:\2005\050344001\Drawings\03-Struct\AS-BUILT\050344-SD1-2_AS-BUILT.dwg



1 SITE PLAN
1" = 20'-0"

GENERAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES CAUSED AS A RESULT OF HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES TO REMAIN.
2. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING WATER, GAS AND ELECTRIC FACILITIES.
3. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
4. CONTRACTOR SHALL SUPPORT ANY UTILITIES EXPOSED DURING CONTRUCTION TO MAINTAIN SLOPE AND INTEGRITY.
5. IF EXISTING SON OR HSHSL FOUNDATION DRAINAGE SYSTEM IS ENCOUNTERED DURING DEMOLITION TEMPORARILY SUPPORT FROM SON OR HSHSL EXTERIOR WALL MAINTAINING THE EXISTING SLOPE. RESTORE FOUNDATION DRAINAGE SYSTEM TO ORIGINAL CONDITION.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

① PROVIDE DUST FILTRATION OVER EXISITNG LOUVER.

② PROVIDE DUST FILTRATION OVER EXISITNG FAN INTAKES.

③ SALVAGE AND RELOCATE DOMESTIC WATER HEATERS TO OFF-SITE LOCATION WITHIN 5 MILES AS DETERMINED BY UMB.

④ CHILLED WATER LINES CAN BE TEMPORARILY REMOVED DURING CONSTRUCTION. OUTAGE IS A MAXIMUM OF 5 DAYS AND SHALL BE COORDINATED WITH UMB AT LEAST 10 BUSINESS DAYS IN ADVANCE. ISOLATION VALVES ARE LOCATED IN SON CHILLED WATER PLANT AND HSHSL. PIPES SHALL BE REPLACED IN KIND INCLUDING PIPE MATERIAL, INSUALTION, VAPOR BARRIER AND ETC.

⑤ INSULATE PIPE TO MATCH THE EXISTING.

VICINITY MAP
SCALE: 1"=8,333'

2 EQUIPMENT PAD DETAIL
NO SCALE

WTW ARCHITECTS

TIMBER COURT
127 ANDERSON STREET
PITTSBURGH, PA 15212-5801
(412) 321-0550
(412) 321-2431 FAX

ASSOCIATE ARCHITECT:

WBCM, – Architects
Whitney Bailey Cox &
Magnani, LLC –
Consulting Engineers
849 Fairmount Ave. Suite 100
Baltimore, MD 21286 (410) 512-4500

Henry Adams, LLC.
Consulting Engineers

600 Baltimore Avenue
Baltimore, MD 21204-4079
410.296.6500
Fax 410.296.3156

Rev.	Date:	Comment:
1	01/29/10	Record Drawing
0	05/26/06	Issued for Bid

Issued: May 26, 2007

Campus Center

621 West Lombard Street
University of Maryland,
Baltimore
Baltimore, MD

Key Plan

Site Demo Plan

PLAN REVISIONS
05/09/08

RECORD DRAWING: This record drawing has been prepared based upon information provided by others. While this information is believed to be reliable, the Design Professional has not verified its accuracy, and thus is not responsible for the accuracy or completeness of this record drawing or for any errors or omissions which may have been incorporated into it as a result of erroneous information provided by others. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

IF THIS DRAWING DOES NOT MEASURE EXACTLY 30" X 42", IT HAS BEEN REDUCED OR ENLARGED. PLEASE DO NOT SCALE THIS DRAWING.

UMB PROJECT NO. 99-311
WTW PROJECT NO. 70-4091

MD1.1

HALLC JOB NO.: U0472A0