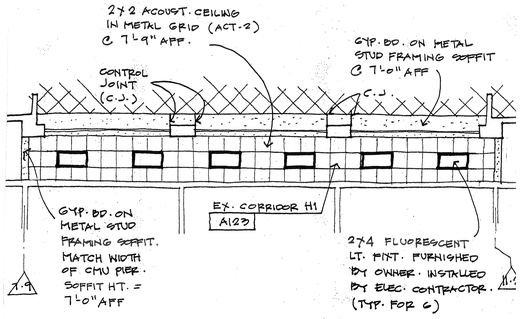
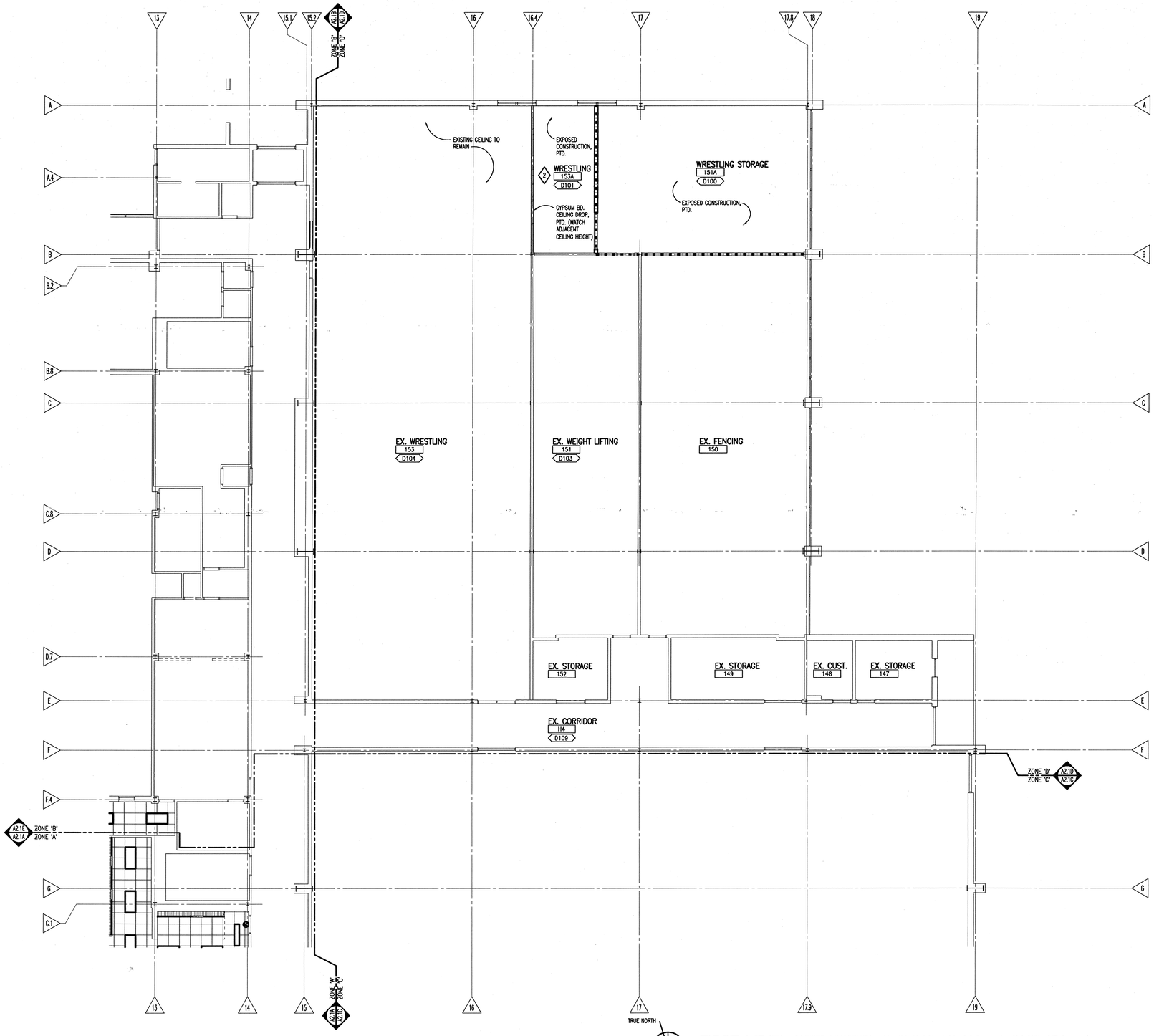


PARTIAL 1ST LEVEL - ZONE A - REFL CLG. PLAN

DO NOT SCALE DRAWING

note: this drawing or partial drawing references the following sheet or detail: A2.1A & E2.1A	issued for: FIELD ORDER # 7
project title: MSU - I.M. WEST ADDITION #1	project no.: CP03111
TMP ARCHITECTURE — TMP ASSOCIATES INC, 1139 WEST SQUARE LAKE ROAD · BOX 289 · BLOOMFIELD HILLS · MICHIGAN · 48303, PH · 248.338.6561 FX · 248.338.0223 EM · INFO@TMP-ARCHITECTURE.COM	date: 2.21.05 / drawn: RF
	drawing no.: F07-A.1

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY, PHYSICAL PLANT DIVISION, ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111



FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'D'

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

GENERAL NOTES

1. ALL GYPSUM BOARD FASCIAS @ SOFFITS, ADJACENT LAY-IN CEILINGS, SHALL EXTEND 4"MINIMUM ABOVE LAY-IN CEILINGS.
2. ALL GYPSUM BOARD FACIAS @ SOFFITS, ADJACENT EXPOSED CONSTRUCTION, SHALL EXTEND TO UNDERSIDE OF DECK.
3. PROVIDE WOOD BLOCKING, ABOVE GYPSUM BOARD CEILINGS, AS REQUIRED FOR MISCELLANEOUS SUSPENDED ITEMS (i.e. CURTAIN TRACKS, WINDOW SHADES, ACOUSTICAL BAFFLES, ETC.)
4. ELEVATIONS TO SOFFITS/CEILINGS ARE NOMINAL. ACTUAL ELEVATIONS ARE 3/8" HIGHER THAN THAT INDICATED (ALIGN WITH TOP OF MORTAR BED JOINTS, TYP.).

FIXTURE LEGEND

- RECESSED, FLUORESCENT TROFFER (2' x 4' & 1' x 4')
- FLUORESCENT COVE LIGHTING
- FLUORESCENT INDUSTRIAL FIXTURE (SEE ELECTRICAL FOR TYPE)
- SURFACE MOUNTED FLUORESCENT FIXTURE
- PENDANT MOUNTED FLUORESCENT FIXTURE (12'-0" A.F.F.)
- RECESSED, FLUORESCENT DOWNLIGHT
- H.I.D. DOWNLIGHT (SEE ELECTRICAL FOR MOUNTING TYPE)
- EXIT SIGN / LIGHT
- SMOKE DETECTOR
- EXHAUST/RETURN GRILLE
- SUPPLY DIFFUSER
- RETURN-AIR GRILLE
- PENDANT SPRINKLER HEAD (SEE MECHANICAL FOR TYPE)
- SIDEWALL SPRINKLER HEAD

CEILING LEGEND

- 2' x 2' ACOUSTIC PANEL CEILING SYSTEM (SEE REFLECTED CEILING PLANS FOR HEIGHT)
  ALL GRIDS ARE CENTERED AND/OR SYMMETRICAL WITHIN ROOMS (U.O.N.)
- GYPSUM BOARD (G.B.), SEE PLANS FOR HEIGHT
- 2' x 2' LAY-IN CEILING SYSTEM (AT 45° ANGLE)

RATED WALL KEY

- 1 HOUR FIRE RATED WALL/PARTITION FOR HAZARDOUS SPACES
- 1 HOUR FIRE RATED WALL/PARTITION FOR SHAFT ENCLOSURE
- 2 HOUR FIRE RATED WALL/PARTITION

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

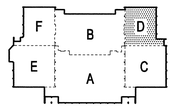
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

First Level Reflected Ceiling Plan - Zone 'D'



KEY PLAN
NO SCALE

c:\acad\2003\03118_____.dwg

9-08-05	AS-BUILT
6-17-04	BULL. NO. 1 (REF. ONLY)
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW
11-19-03	D.D. REVIEW
DATE:	ISSUED FOR:
DRAWN	MWE
CHECKED	RJF
APPROVED	TAC

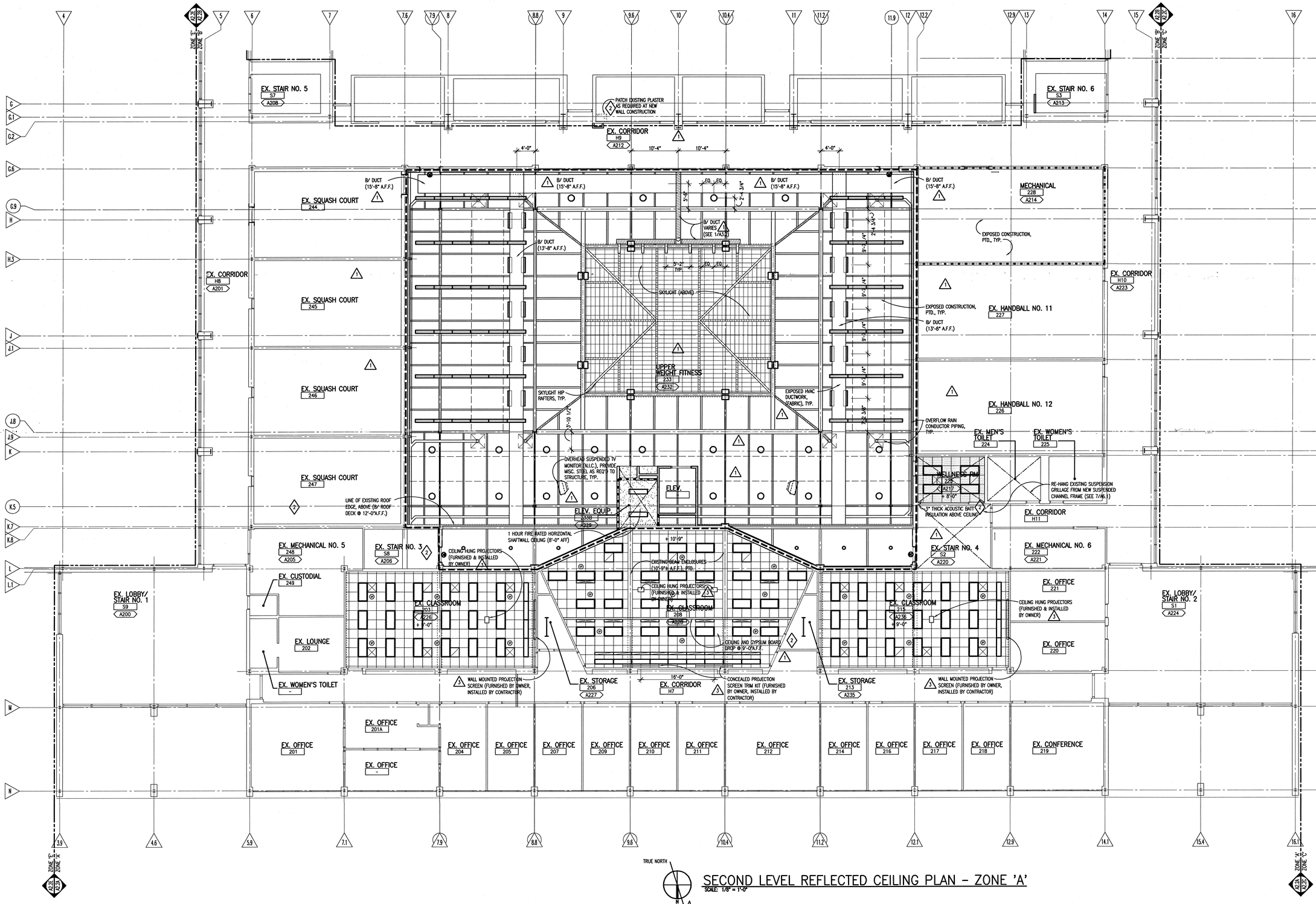
PROJECT NO.

CP03111

TMP PROJECT NO. 03118

SHEET NO.

A2.1D



TRUE NORTH

SECOND LEVEL REFLECTED CEILING PLAN - ZONE 'A'

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

GENERAL NOTES

1. ALL GYPSUM BOARD FASCIAS @ SOFFITS, ADJACENT LAY-IN CEILINGS, SHALL EXTEND 4"MINIMUM ABOVE LAY-IN CEILINGS.
2. ALL GYPSUM BOARD FACIAS @ SOFFITS, ADJACENT EXPOSED CONSTRUCTION, SHALL EXTEND TO UNDERSIDE OF DECK.
3. PROVIDE WOOD BLOCKING, ABOVE GYPSUM BOARD CEILINGS, AS REQUIRED FOR MISCELLANEOUS SUSPENDED ITEMS (i.e. CURTAIN TRACKS, WINDOW SHADES, ACOUSTICAL BAFFLES, ETC.)
4. ELEVATIONS TO SOFFITS/CEILINGS ARE NOMINAL. ACTUAL ELEVATIONS ARE 3/8" HIGHER THAN THAT INDICATED (ALIGN WITH TOP OF MORTAR BED JOINTS, TYP.).

FIXTURE LEGEND

- RECESSED, FLUORESCENT TROFFER (2' x 4' & 1' x 4')
- FLUORESCENT COVE LIGHTING
- FLUORESCENT INDUSTRIAL FIXTURE (SEE ELECTRICAL FOR TYPE)
- SURFACE MOUNTED FLUORESCENT FIXTURE
- PENDANT MOUNTED FLUORESCENT FIXTURE (12'-0" A.F.F.)
- RECESSED, FLUORESCENT DOWNLIGHT
- H.I.D. DOWNLIGHT (SEE ELECTRICAL FOR MOUNTING TYPE)
- EXIT SIGN / LIGHT
- SMOKE DETECTOR
- EXHAUST/RETURN GRILLE
- SUPPLY DIFFUSER
- RETURN-AIR GRILLE
- PENDANT SPRINKLER HEAD (SEE MECHANICAL FOR TYPE)
- SIDEWALL SPRINKLER HEAD

CEILING LEGEND

- 2' x 2' ACOUSTIC PANEL CEILING SYSTEM (SEE REFLECTED CEILING PLANS FOR HEIGHT)
  ALL GRIDS ARE CENTERED AND/OR SYMMETRICAL WITHIN ROOMS (U.O.N.)
- GYPSUM BOARD (G.B.), SEE PLANS FOR HEIGHT
- 2' x 2' LAY-IN CEILING SYSTEM (AT 45° ANGLE)

RATED WALL KEY

- 1 HOUR FIRE RATED WALL/PARTITION FOR HAZARDOUS SPACES
- 1 HOUR FIRE RATED WALL/PARTITION FOR SHAFT ENCLOSURE
- 2 HOUR FIRE RATED WALL/PARTITION

SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @TMP-ARCHITECTURE.COM

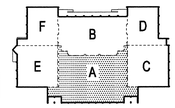
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Second Level Reflected Ceiling Plan - Zone 'A'



KEY PLAN
NO SCALE

q:\acad\2003\03118_____.dwg

DATE:	ISSUED FOR:
9-08-05	AS-BUILT
9-8-04	BULLETIN NO. 3
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW
11-19-03	D.D. REVIEW

DRAWN	MWE
CHECKED	RJF
APPROVED	TAC

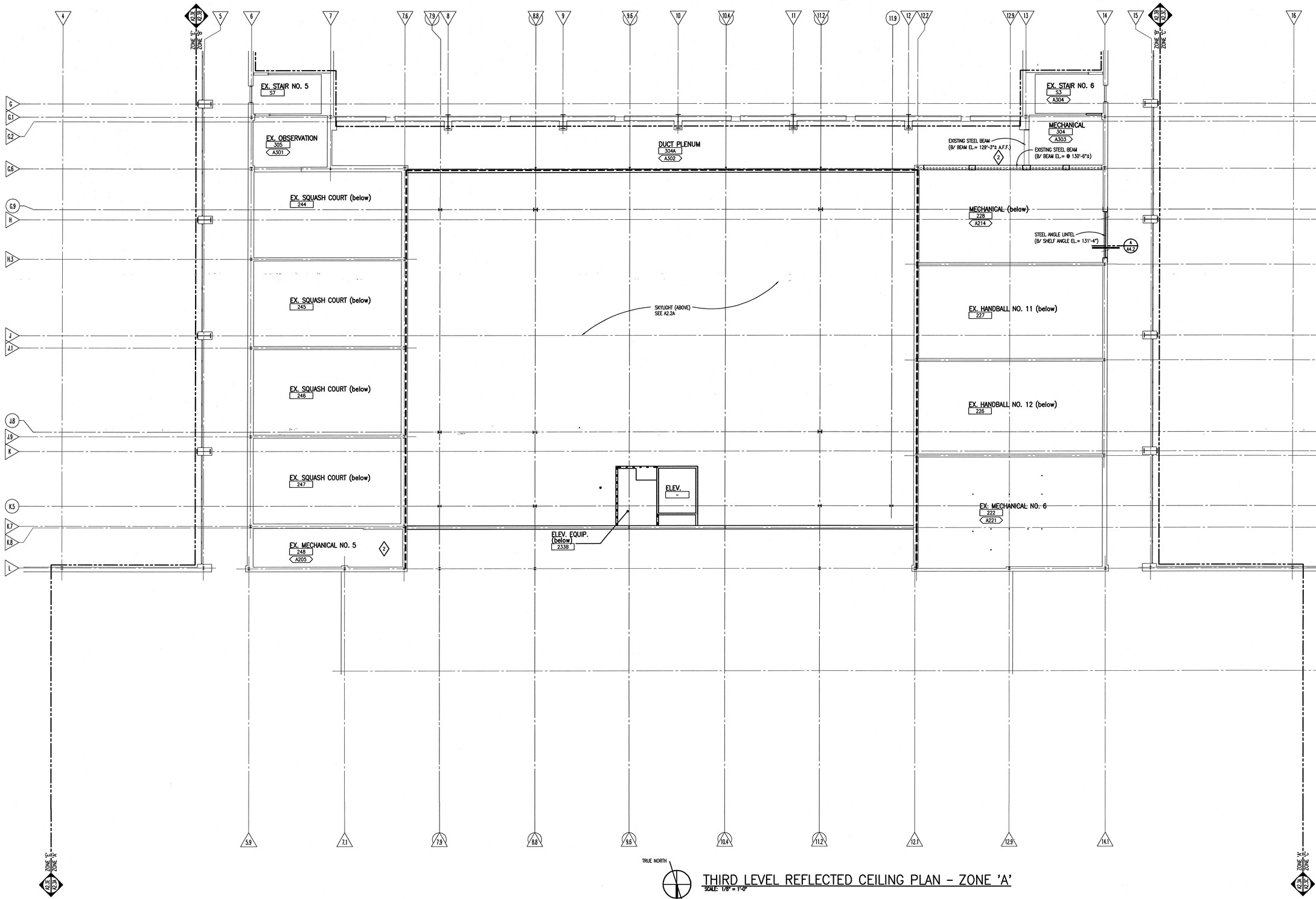
PROJECT NO.

CP03111

TMP PROJECT NO. 03118

SHEET NO.

A2.2A



TRUE NORTH

THIRD LEVEL REFLECTED CEILING PLAN – ZONE 'A'

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

GENERAL NOTES

1. ALL GYPSUM BOARD FASCIAS @ SOFFITS, ADJACENT LAY-IN CEILINGS, SHALL EXTEND 4"MINMUM ABOVE LAY-IN CEILINGS.
2. ALL GYPSUM BOARD FACIAS @ SOFFITS, ADJACENT EXPOSED CONSTRUCTION, SHALL EXTEND TO UNDERSIDE OF DECK.
3. PROVIDE WOOD BLOCKING, ABOVE GYPSUM BOARD CEILINGS, AS REQUIRED FOR MISCELLANEOUS SUSPENDED ITEMS (i.e. CURTAIN TRACKS, WINDOW SHADES, ACOUSTICAL BAFFLES, ETC.)
4. ELEVATIONS TO SOFFITS/CEILINGS ARE NOMINAL. ACTUAL ELEVATIONS ARE 3/8" HIGHER THAN THAT INDICATED (ALIGN WITH TOP OF MORTAR BED JOINTS, TYP.).

FIXTURE LEGEND

- RECESSED, FLUORESCENT TROFFER (2' x 4' & 1' x 4')
- FLUORESCENT COVE LIGHTING
- FLUORESCENT INDUSTRIAL FIXTURE (SEE ELECTRICAL FOR TYPE)
- SURFACE MOUNTED FLUORESCENT FIXTURE
- PENDANT MOUNTED FLUORESCENT FIXTURE (12'-0" A.F.F.)
- RECESSED, FLUORESCENT DOWNLIGHT
- H.I.D. DOWNLIGHT (SEE ELECTRICAL FOR MOUNTING TYPE)
- EXIT SIGN / LIGHT
- SMOKE DETECTOR
- EXHAUST/RETURN GRILLE
- SUPPLY DIFFUSER
- RETURN-AIR GRILLE
- PENDANT SPRINKLER HEAD (SEE MECHANICAL FOR TYPE)
- SIDEWALL SPRINKLER HEAD

CEILING LEGEND

- 2' x 2' ACOUSTIC PANEL CEILING SYSTEM (SEE REFLECTED CEILING PLANS FOR HEIGHT)
  ALL GRIDS ARE CENTERED AND/OR SYMMETRICAL WITHIN ROOMS (U.O.N.)
- GYPSUM BOARD (G.B.), SEE PLANS FOR HEIGHT
- 2' x 2' LAY-IN CEILING SYSTEM (AT 45° ANGLE)

RATED WALL KEY

- 1 HOUR FIRE RATED WALL/PARTITION FOR HAZARDOUS SPACES
- 1 HOUR FIRE RATED WALL/PARTITION FOR SHAFT ENCLOSURE
- 2 HOUR FIRE RATED WALL/PARTITION

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET:	OF:
	DRAWN BY:	
	APP'D BY:	
	DATE:	
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE:	AS NOTED
	DWG NO:	B-151-76
	CARD NO:	CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4565 FX · 248.338.0223
EM · INFO @TMP-ARCHITECTURE.COM

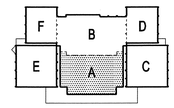
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Third Level Reflected Ceiling Plan - Zone 'A'



KEY PLAN
NO SCALE

q:\proj\2003\03118_____.dwg

DATE:	ISSUED FOR:
9-08-06	AS-BUILT
6-17-04	BULL NO. 1 (REF. ONLY)
3-26-04	ADDENDUM NO. 2
DRAWN	MWE
CHECKED	MWE
APPROVED	TC

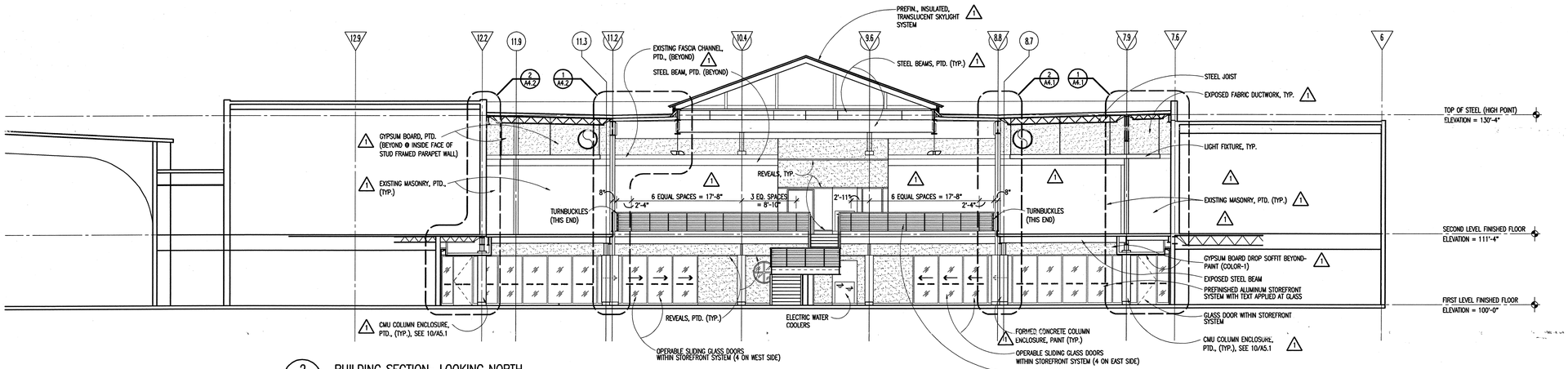
PROJECT NO.

CP03111

TMP PROJECT NO. 03118

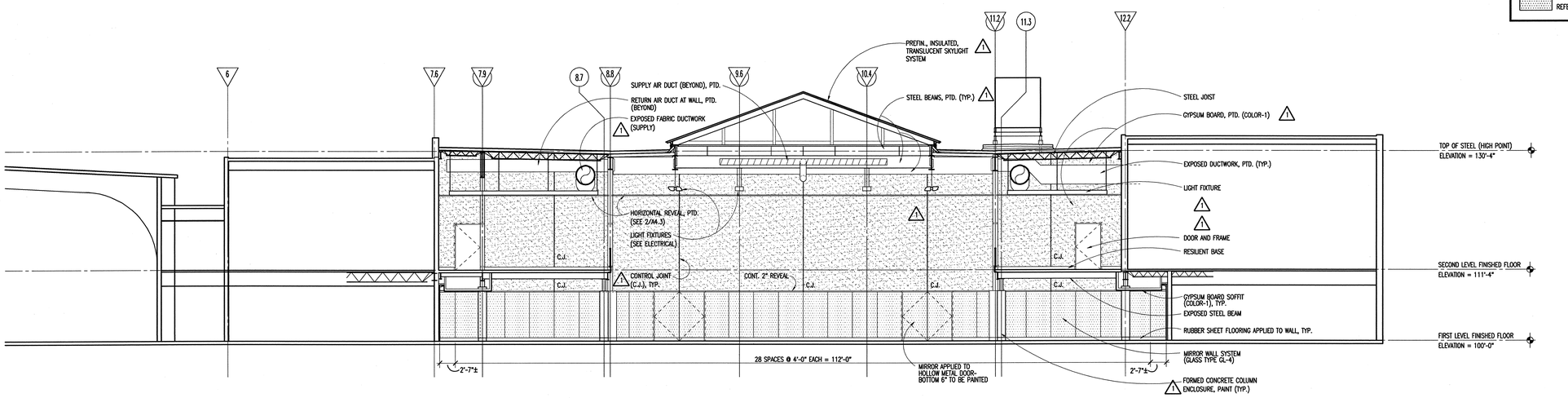
SHEET NO.

A2.3A



2 / A1.1A BUILDING SECTION- LOOKING NORTH

1/8"=1'-0"



1 / A1.1A BUILDING SECTION- LOOKING SOUTH

1/8"=1'-0"

LEGEND:

- GYPSUM BOARD, PAINTED
- MIRROR WALL SYSTEM
- REFER TO SPECIFICATIONS

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED DWG NO: B-151-76 CARD NO: CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD • BOX 289
BLOOMFIELD HILLS • MICHIGAN • 48303
PH • 248.338.4565 FX • 248.338.0223
EM • INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Building Sections

9-08-06	AS-BUILT
6-17-04	BULLETIN NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW
11-19-03	D.D. REVIEW
DATE:	ISSUED FOR:
DRAWN	RJF
CHECKED	MWE
APPROVED	DWL

PROJECT NO.

CP03111

TMP PROJECT NO. 03118

SHEET NO.

A3.1

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

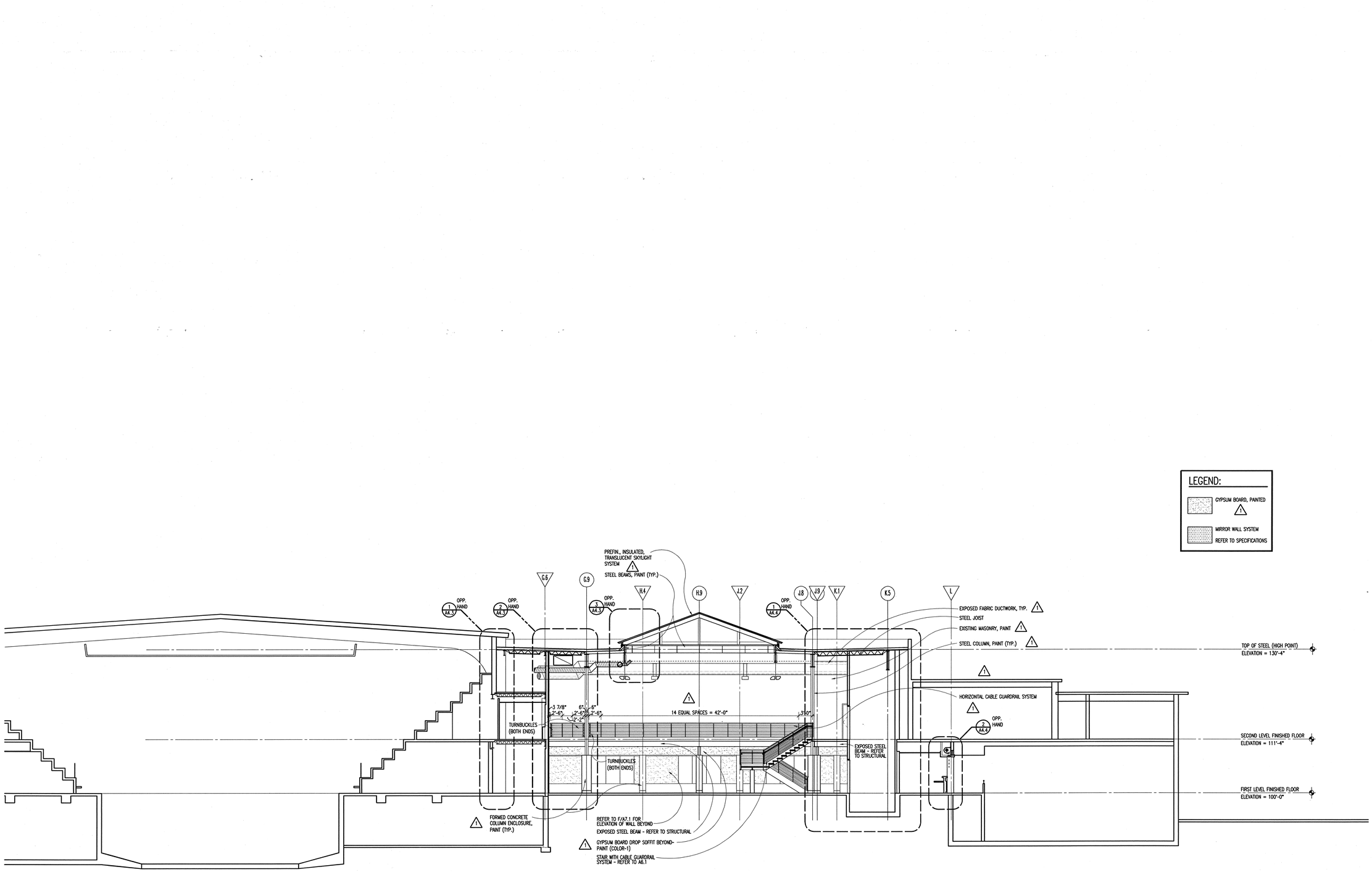
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Building Sections



1 / A1.1A BUILDING SECTION- LOOKING WEST (EAST SIMILAR)
1/8"=1'-0"

9-08-06	AS-BUILT
6-17-04	BULLETIN NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW
11-19-03	D.D. REVIEW
DATE:	ISSUED FOR:
DRAWN	RJF
CHECKED	MWE
APPROVED	DWL

PROJECT NO.

CP03111

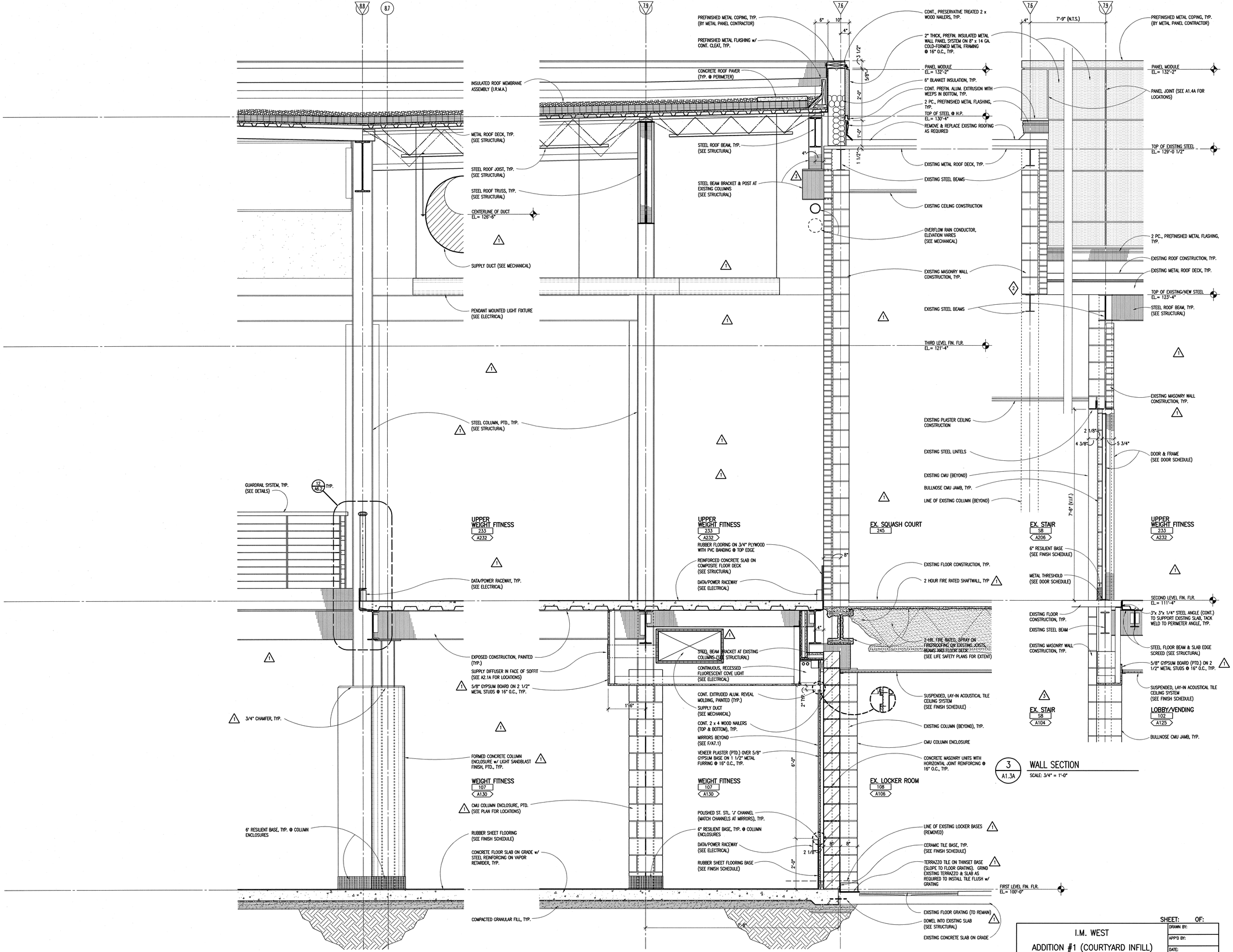
TMP PROJECT NO. 03118

SHEET NO.

A3.2

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
	SCALE: AS NOTED
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	DWG NO: B-151-76
	CARD NO: CP03111



2 A3.1 **WALL SECTION**
SCALE: 3/4" = 1'-0"

1 A3.1 **WALL SECTION**
SCALE: 3/4" = 1'-0"

3 A1.3A **WALL SECTION**
SCALE: 3/4" = 1'-0"

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4541 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Wall Sections

c:\03118\mswd1.dwg

DATE:	ISSUED FOR:
9-08-06	AS-BUILT
9-8-04	BULLETIN NO. 3
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW
DRAWN	MWE
CHECKED	RJF
APPROVED	TAC

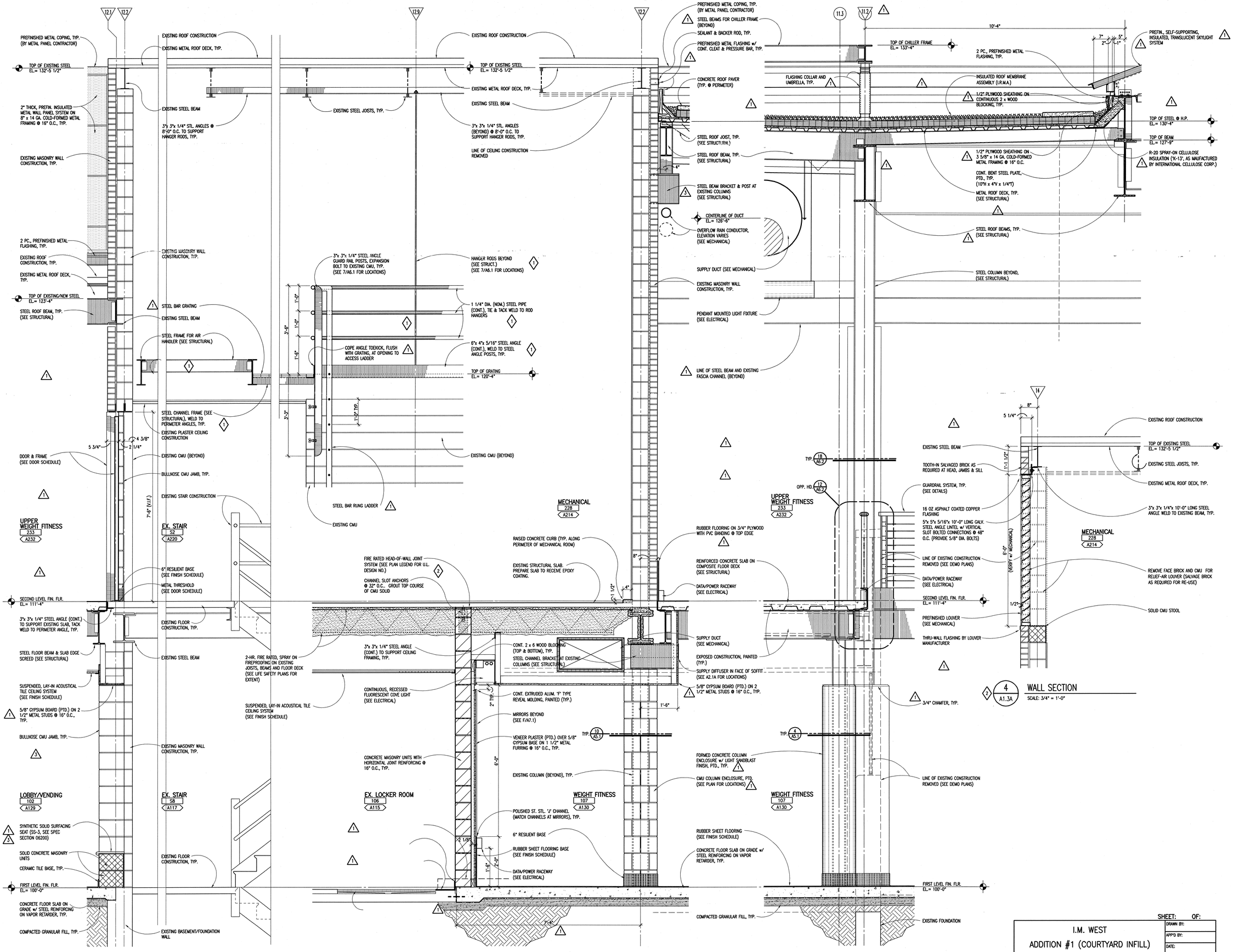
PROJECT NO.

CP03111

TMP PROJECT NO. 03118

SHEET NO.

A4.1



3 A1.3A WALL SECTION
SCALE: 3/4" = 1'-0"

2 A3.1 WALL SECTION
SCALE: 3/4" = 1'-0"

1 A3.1 WALL SECTION
SCALE: 3/4" = 1'-0"

2 4 A1.3A WALL SECTION
SCALE: 3/4" = 1'-0"

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4565 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Wall Sections

q:\directory\filename.dwg

9-08-06	AS-BUILT
9-8-04	BULLETIN NO. 3
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
3-18-04	ADDENDUM NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
DATE:	ISSUED FOR:
DRAWN	MWE
CHECKED	RJF
APPROVED	TAC

PROJECT NO.

CP03111

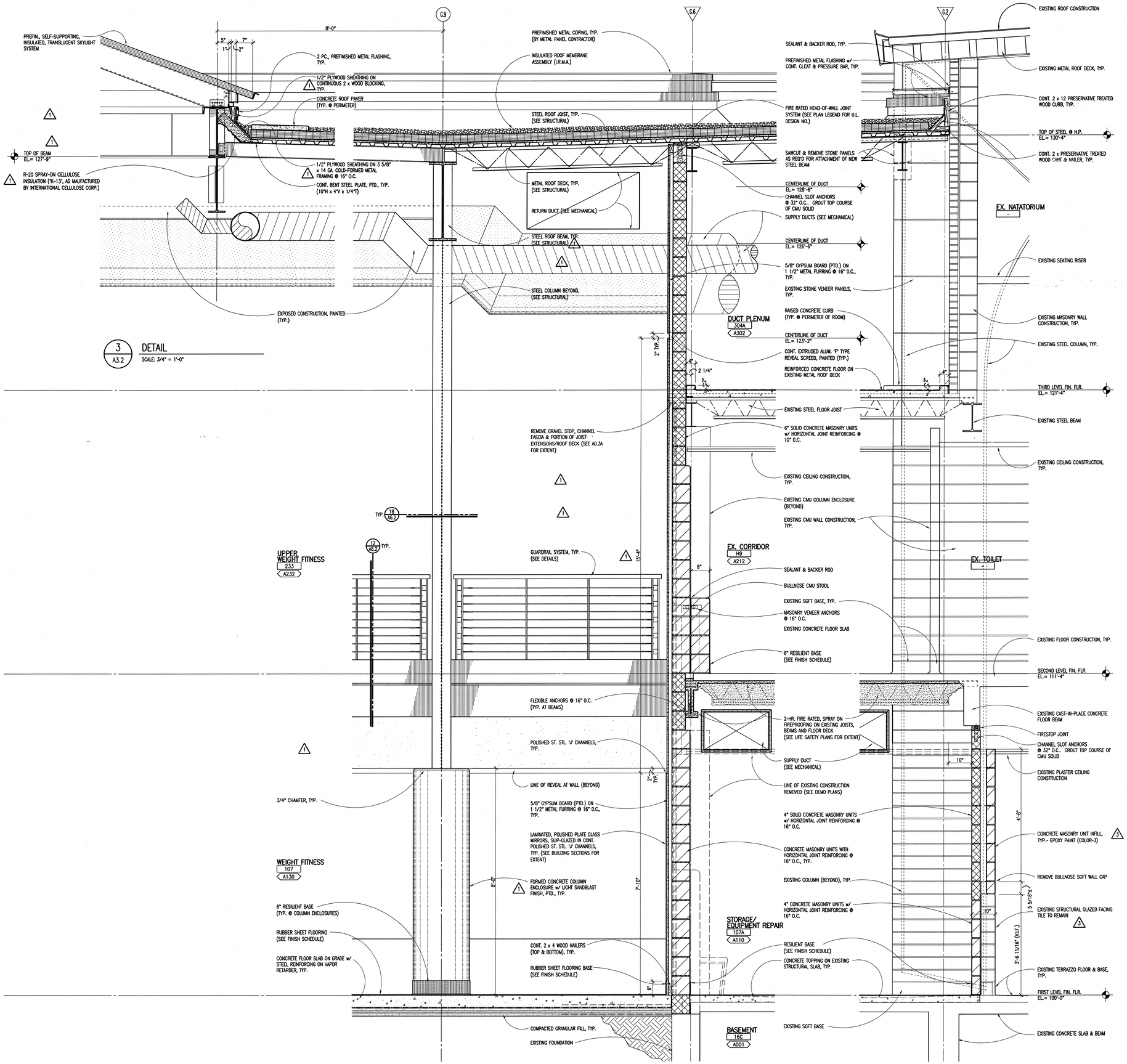
TMP PROJECT NO. 03118

SHEET NO.

A4.2

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111



TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Wall Sections

q:\directory\filename.dwg

9-08-06	AS-BUILT
9-8-04	BULLETIN NO. 3
6-17-04	BULLETIN NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
DATE:	ISSUED FOR:
DRAWN	MWE
CHECKED	RJF
APPROVED	TAC

PROJECT NO.

CP03111

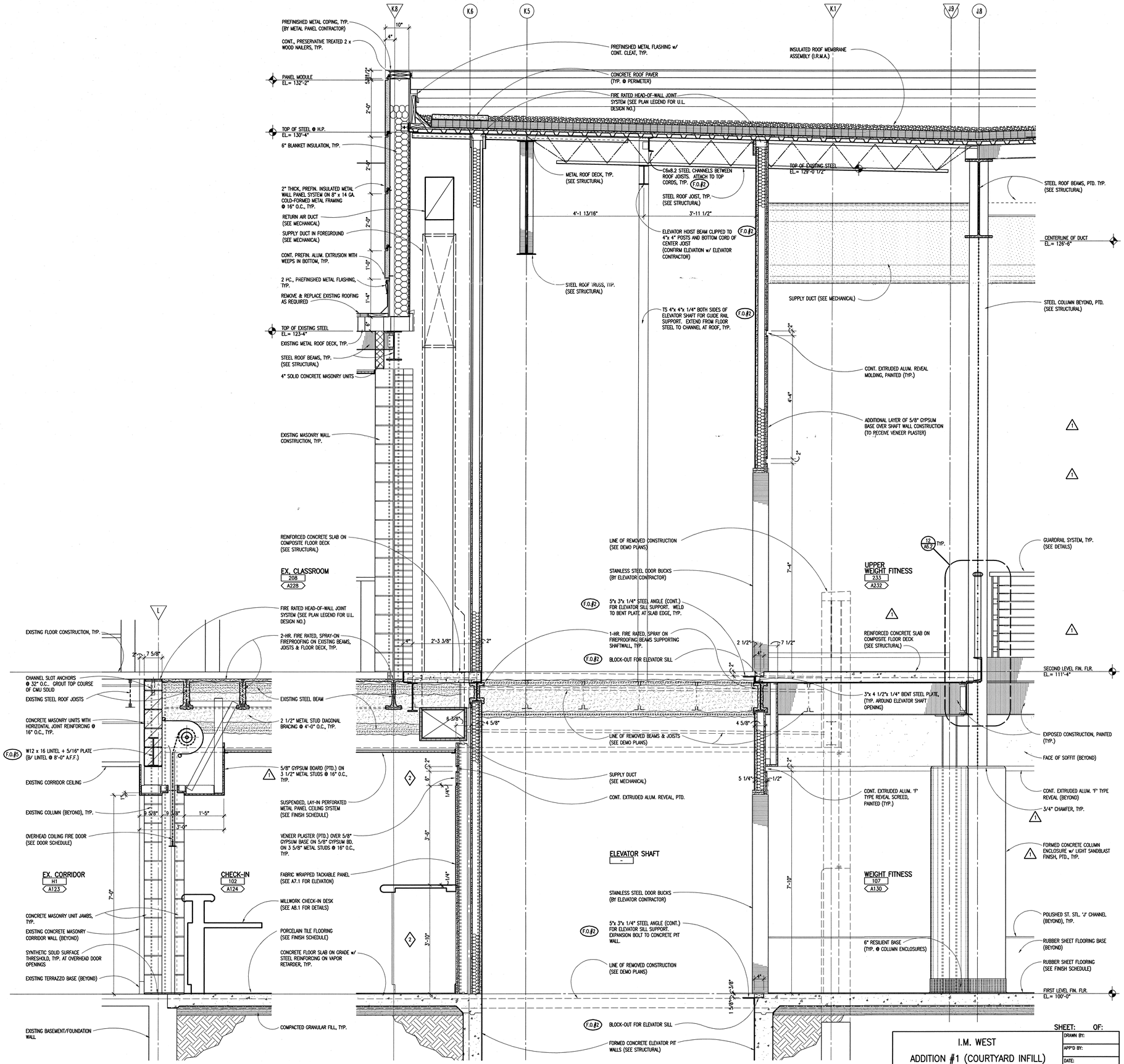
TMP PROJECT NO. 03118

SHEET NO.

A4.3

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111



2 A3.2 DETAIL
SCALE: 3/4" = 1'-0"

1 A3.2 DETAIL
SCALE: 3/4" = 1'-0"

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Wall Sections

9-08-06	AS-BUILT	
9-24-04	F.O. #5 (NOT REISSUED)	
7-27-04	FIELD ORDER NO. 2	
6-17-04	BULLETIN NO. 1	
3-26-04	ADDENDUM NO. 2	
2-18-04	BIDS	
1-28-04	FINAL REVIEW	
DATE:	ISSUED FOR:	
DRAWN	MWE	
CHECKED	RJF	
APPROVED	DWL	

PROJECT NO.

CP03111

TMP PROJECT NO. 03118

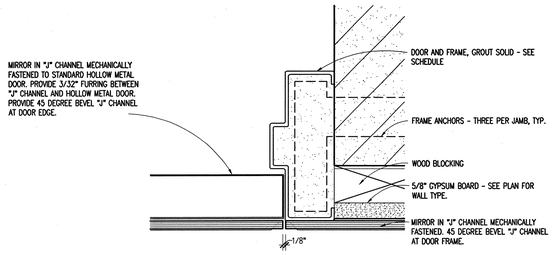
SHEET NO.

A4.4

I.M. WEST
ADDITION #1 (COURTYARD INFILL)

MICHIGAN STATE UNIVERSITY
PHYSICAL PLANT DIVISION
ENGINEERING & ARCHITECTURAL SERVICES

SHEET:	OF:
DRAWN BY:	
APP'D BY:	
DATE:	
SCALE:	AS NOTED
DWG NO:	B-151-76
CARD NO:	CP03111

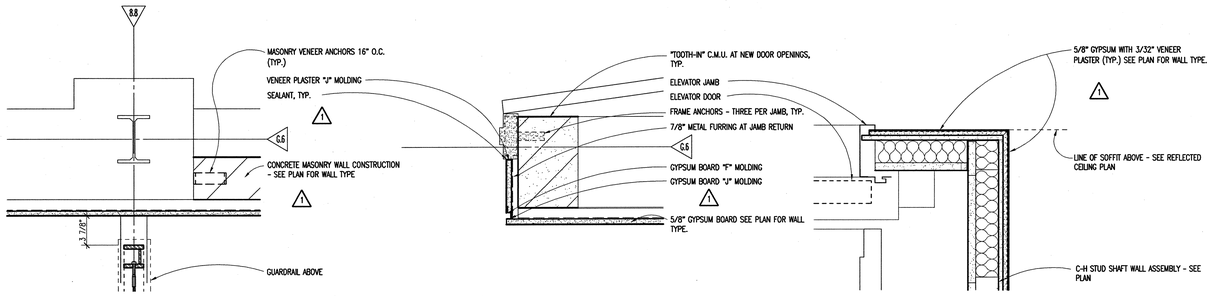


20. A1.1A DETAIL
SCALE: HALF FULL

21. Ax.x (NOT USED)
SCALE: x" = 1'-0"

22. Ax.x (NOT USED)
SCALE: x" = 1'-0"

23. Ax.x (NOT USED)
SCALE: x" = 1'-0"



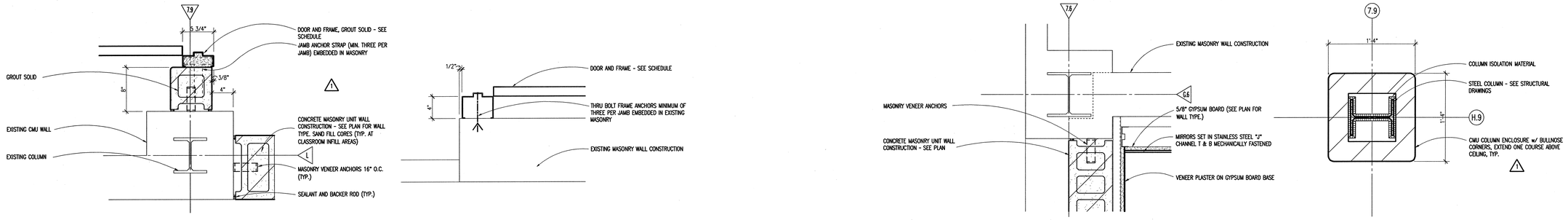
19. A1.2A DETAIL
SCALE: 1 1/2" = 1'-0"

18. A1.2A DETAIL
SCALE: 1 1/2" = 1'-0"

17. A1.2A DETAIL
SCALE: 1 1/2" = 1'-0"

16. - (NOT USED)
SCALE: 1 1/2" = 1'-0"

15. Ax.x (NOT USED)
SCALE: x" = 1'-0"



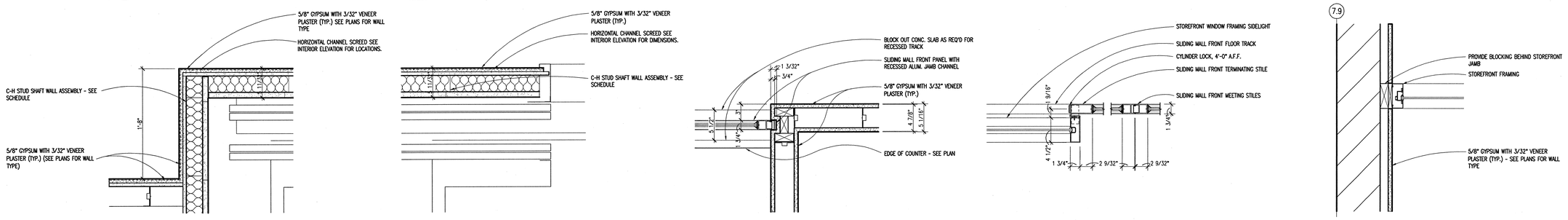
14. A1.2A DETAIL
SCALE: 1 1/2" = 1'-0"

13. A1.1A A1.2A DETAIL
SCALE: 1 1/2" = 1'-0"

12. - (NOT USED)
SCALE: 1 1/2" = 1'-0"

11. A1.1A DETAIL
SCALE: 1 1/2" = 1'-0"

10 A1.1A DETAIL
SCALE: 1 1/2" = 1'-0"



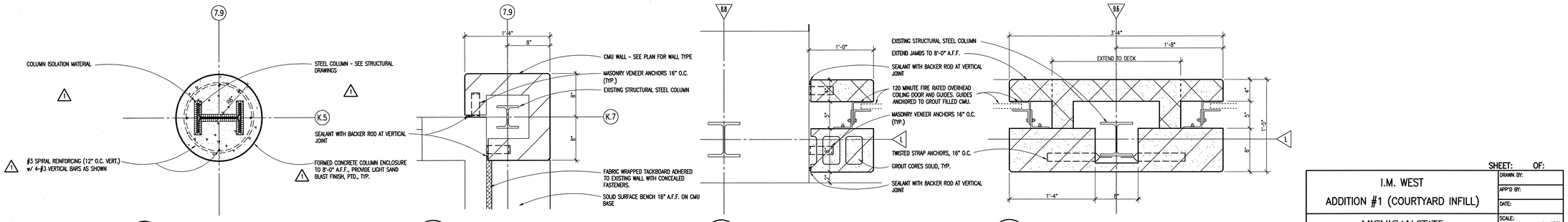
9. A6.1 DETAIL
SCALE: 1 1/2" = 1'-0"

8. A6.1 DETAIL
SCALE: 1 1/2" = 1'-0"

7. A6.1 DETAIL
SCALE: 1 1/2" = 1'-0"

6. A6.1 DETAIL
SCALE: 1 1/2" = 1'-0"

5. A1.1A DETAIL
SCALE: 1 1/2" = 1'-0"



4 A1.1A COLUMN ENCLOSURE
SCALE: 1 1/2" = 1'-0"

3. A1.1A DETAIL
SCALE: 1 1/2" = 1'-0"

2. A1.1A DETAIL
SCALE: 1 1/2" = 1'-0"

1. A6.1 DETAIL
SCALE: 1 1/2" = 1'-0"

SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE
I.M. West Addition #1, Courtyard Infill

Michigan State University

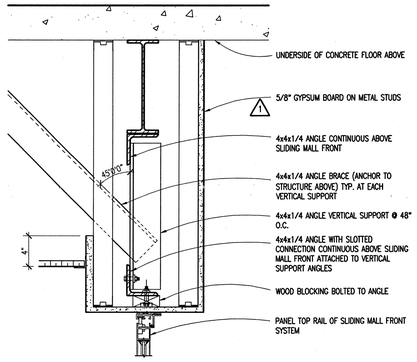
SHEET TITLE
Plan Details

c:\directory\filename.dwg

9-08-06	AS-BUILT
6-17-04	BULLETIN NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW
DATE:	ISSUED FOR:
DRAWN	MML
CHECKED	MWE
APPROVED	TAC

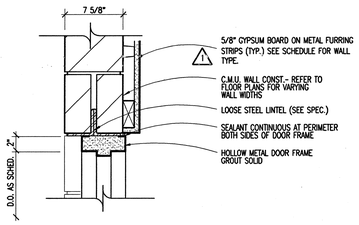
PROJECT NO.
CP03111
TMP PROJECT NO. 03118

SHEET NO.
A5.1

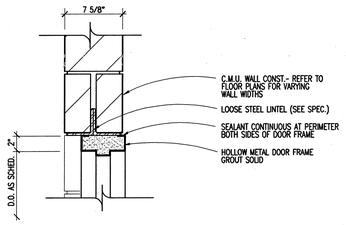


19. AD.1 HEAD DETAIL @ ALUM. TRACK
SCALE: 1 1/2" = 1'-0"

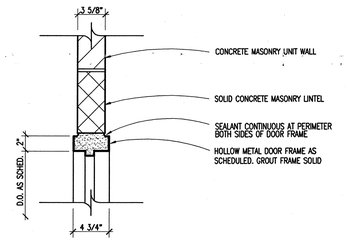
23. Ax.x (NOT USED)
SCALE: x" = 1'-0"



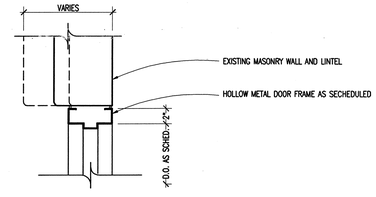
18. AD.1 HEAD DETAIL @ NEW LINTEL
SCALE: 1 1/2" = 1'-0"



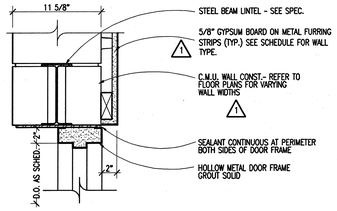
17. AD.1 HEAD DETAIL @ NEW LINTEL
SCALE: 1 1/2" = 1'-0"



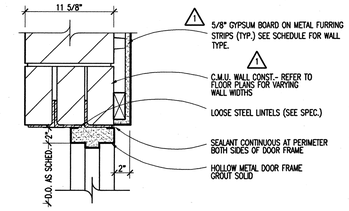
16. AD.1 HEAD DETAIL @ NEW LINTEL
SCALE: 1 1/2" = 1'-0"



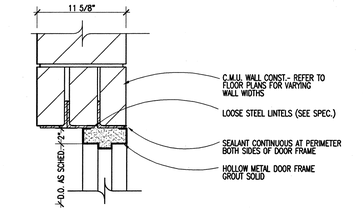
15. AD.1 HEAD DETAIL @ EXISTING LINTEL
SCALE: 1 1/2" = 1'-0"



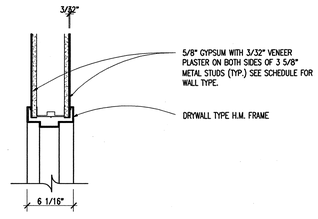
22. AD.1 HEAD DETAIL @ NEW LINTEL
SCALE: 1 1/2" = 1'-0"



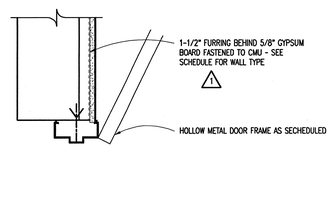
21. AD.1 HEAD DETAIL @ NEW LINTEL
SCALE: 1 1/2" = 1'-0"



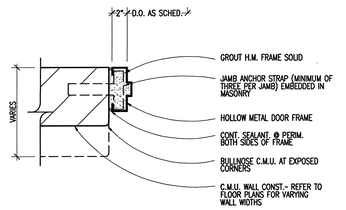
20. AD.1 HEAD DETAIL @ NEW LINTEL
SCALE: 1 1/2" = 1'-0"



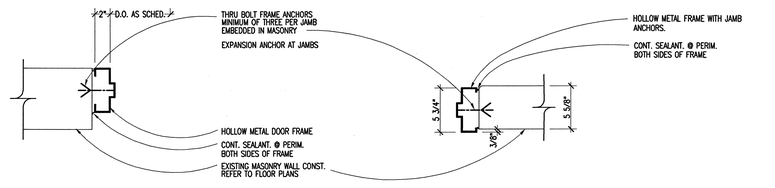
14. AD.1 HEAD & JAMB @ VENEER PLASTER
SCALE: 1 1/2" = 1'-0"



13. AD.1 H.M. FR. JAMB @ EXIST. OPENING
SCALE: 1 1/2" = 1'-0"

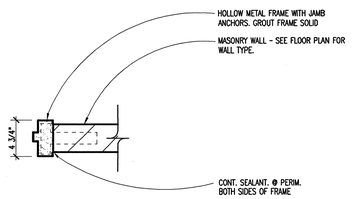


12. AD.1 H.M. FR. JAMB @ CMU
SCALE: 1 1/2" = 1'-0"

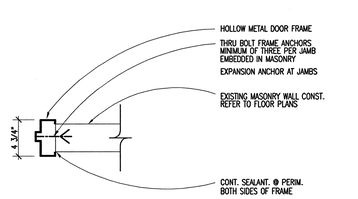


11. AD.1 H.M. FR. JAMB @ EXIST. OPNG.
SCALE: 1 1/2" = 1'-0"

10. AD.1 H.M. FR. JAMB @ EXIST. OPNG
SCALE: 1 1/2" = 1'-0"

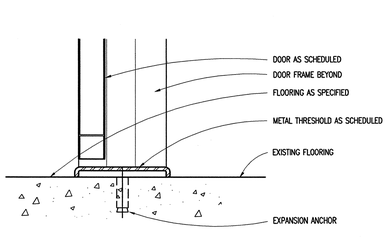


9. AD.1 H.M. FR. JAMB @ CMU
SCALE: 1 1/2" = 1'-0"

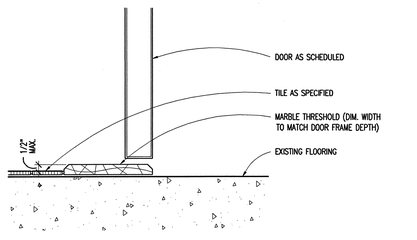


8. AD.1 H.M. FR. JAMB @ EXIST. CMU
SCALE: 1 1/2" = 1'-0"

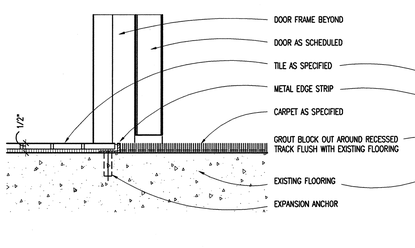
7. Ax.x (NOT USED)
SCALE: x" = 1'-0"



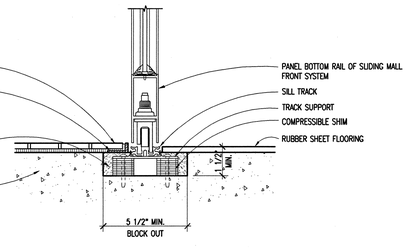
6. AD.1 SILL DETAIL-METAL THRESHOLD
SCALE: 3" = 1'-0"



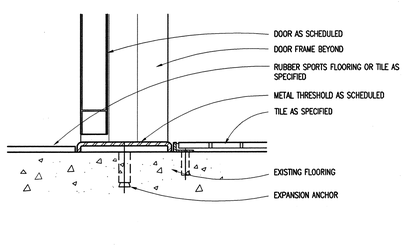
5. AD.1 SILL DETAIL-MARBLE THRESHOLD
SCALE: 3" = 1'-0"



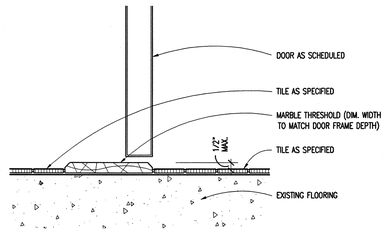
4. AD.1 SILL DETAIL-METAL EDGE STRIP
SCALE: 3" = 1'-0"



3. AD.1 SILL DETAIL-ALUM. TRACK
SCALE: 3" = 1'-0"



2. AD.1 SILL DETAIL-METAL THRESHOLD
SCALE: 3" = 1'-0"



1. AD.1 SILL DETAIL-MARBLE THRESHOLD
SCALE: 3" = 1'-0"

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4565 FX · 248.338.0223
EM · INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE
I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE
Details

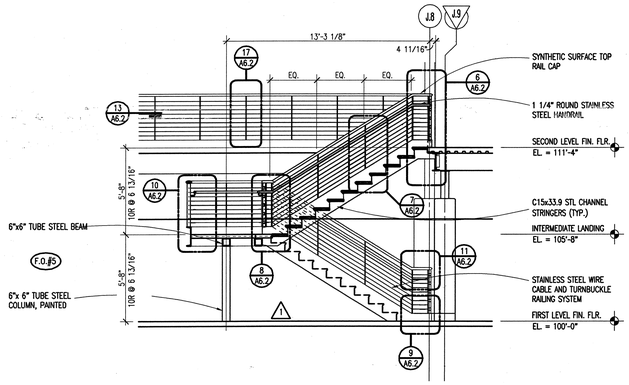
q:\[directory]\filename.dwg

DATE:	ISSUED FOR:
9-08-06	AS-BUILT
6-17-04	BULLETIN NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW

DRAWN MML
CHECKED
APPROVED

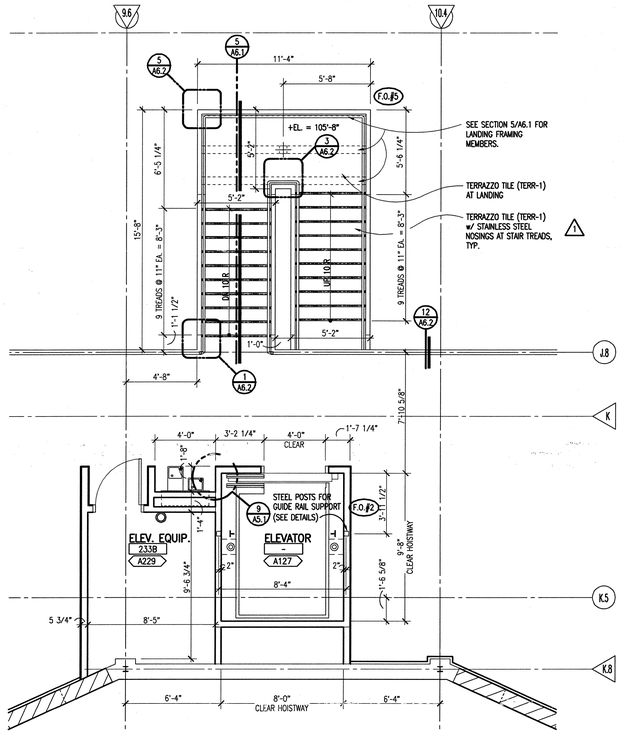
PROJECT NO.
CP03111
TMP PROJECT NO. 03118

SHEET NO.
A5.2



5 A6.1 STAIR SECTION

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

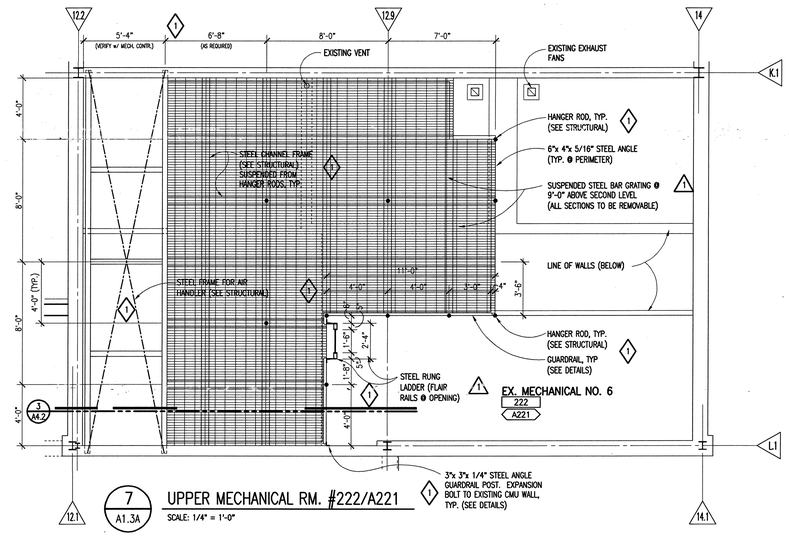


4 A1.2A ENLARGED PLAN - SECOND LEVEL

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

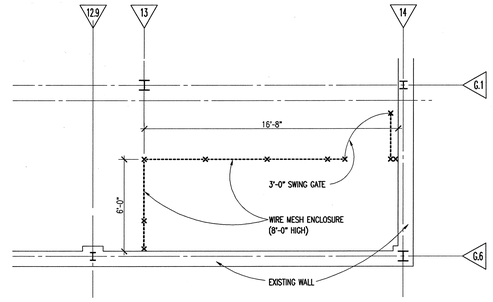
8 A1.3A (NOT USED)

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



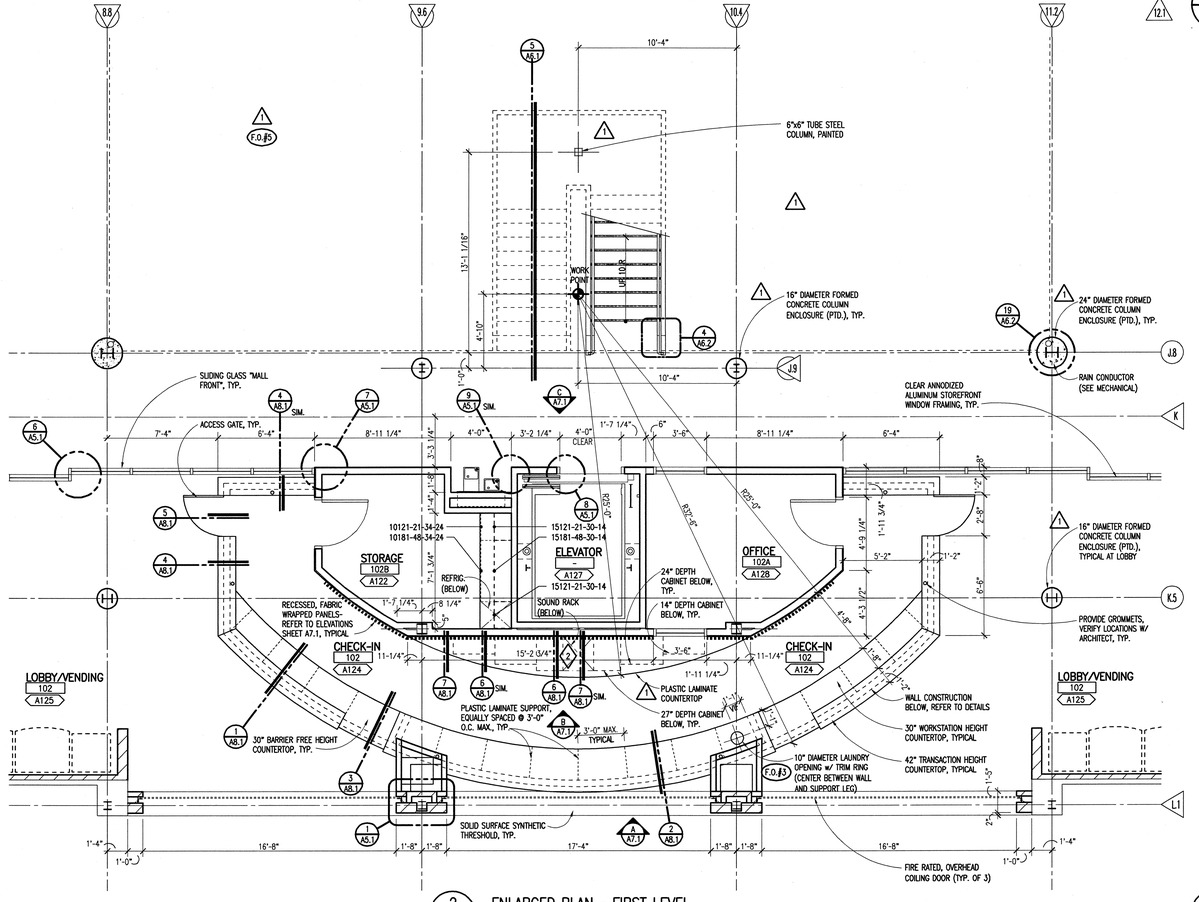
7 A1.3A UPPER MECHANICAL RM. #222/A221

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



6 A6.1 FIRE PROTECTION EQUIP. ENCLOSURE, LOWER LEVEL- ZONE 'A'

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



2 A1.1A ENLARGED PLAN - FIRST LEVEL

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

1 A1.1A ENLARGED TOILET RM. PLAN

SCALE: 1/4" = 1'-0" (ALTERNATE #1)

3 A1.1A ENLARGED TOILET RM. PLAN

SCALE: 1/4" = 1'-0" (ALTERNATE #1)

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Enlarged Floor Plans

9-08-06	AS-BUILT
9-24-05	F.O. #5 (NOT REISSUED)
9-8-04	FIELD ORDER NO. 3
7-27-04	FIELD ORDER NO. 2
6-17-04	BULLETIN NO. 1
3-18-04	ADDENDUM NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW
DATE:	ISSUED FOR:
DRAWN	MML, MWE
CHECKED	MWE
APPROVED	DWL

PROJECT NO.

CP03111

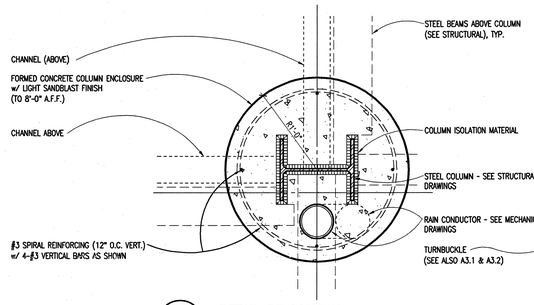
TMP PROJECT NO. 03118

SHEET NO.

A6.1

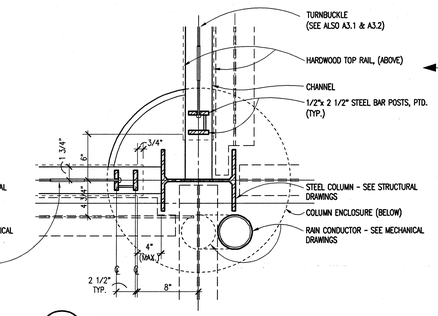
SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111



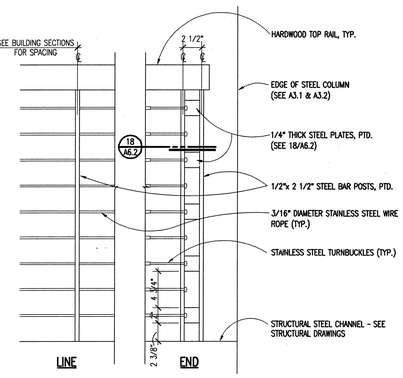
19 A1.1A DETAIL OF COLUMN

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



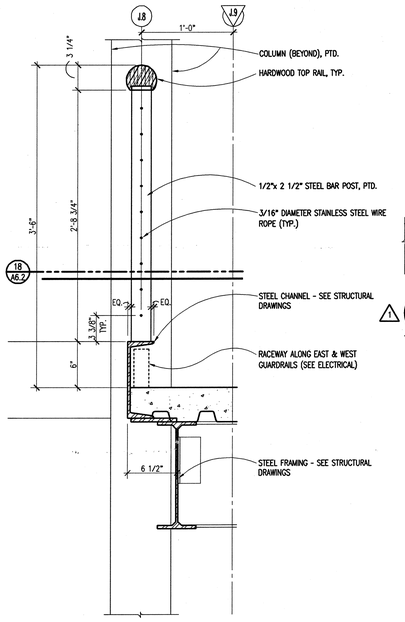
18 A1.2A DETAIL OF GUARDRAIL AT COLUMN

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



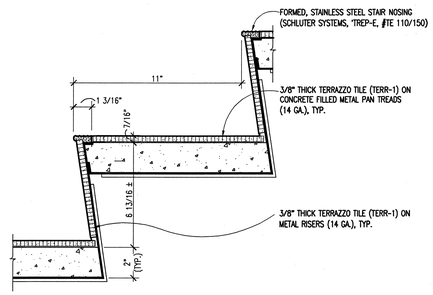
17 A6.1 GUARDRAIL POST ELEVATIONS

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



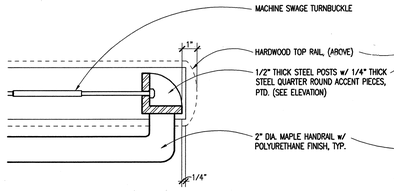
12 A6.1 GUARDRAIL SECTION

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



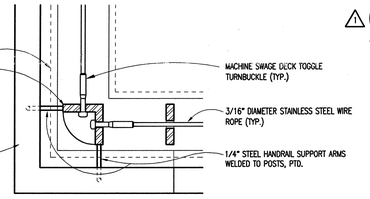
16 A6.2 SECTION THRU RISER AND TREAD

SCALE: 3" = 1'-0"



15 A6.2 ENLARGED PLAN DETAIL
PLAN DETAIL AT BOTTOM OF STAIR

SCALE: 3" = 1'-0"

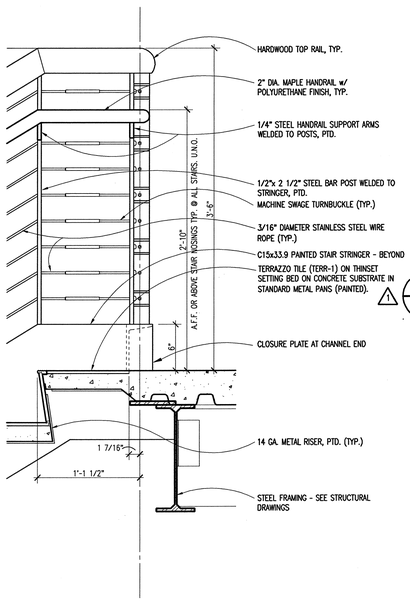


14 A6.2 ENLARGED PLAN DETAIL OF GUARDRAIL POST

SCALE: 3" = 1'-0"

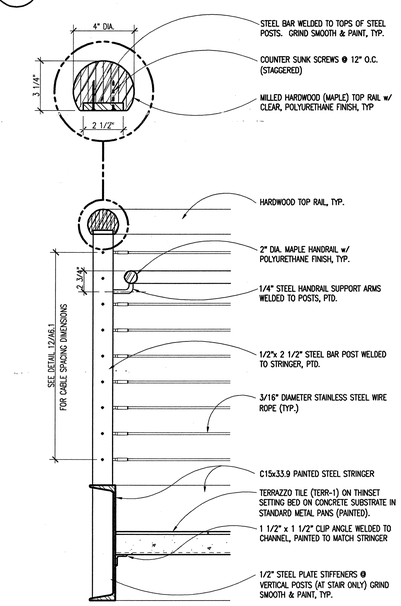
13 - (NOT USED)

SCALE: 3" = 1'-0"



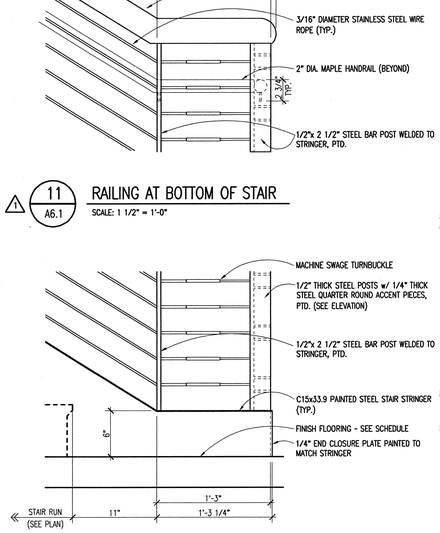
1 A6.1 PLAN DETAIL AT TOP OF STAIR

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



5 A6.1 PLAN DETAIL AT LANDING CORNER

SCALE: 3" = 1'-0"

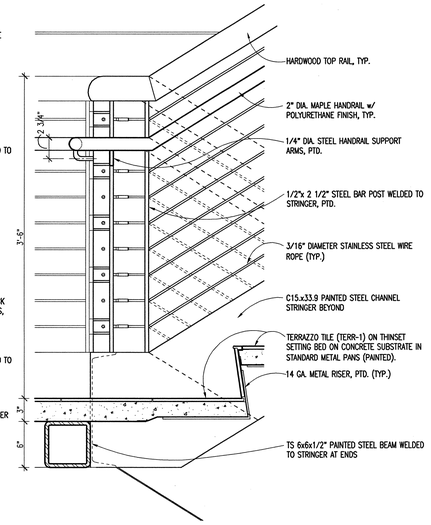


11 A6.1 RAILING AT BOTTOM OF STAIR

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

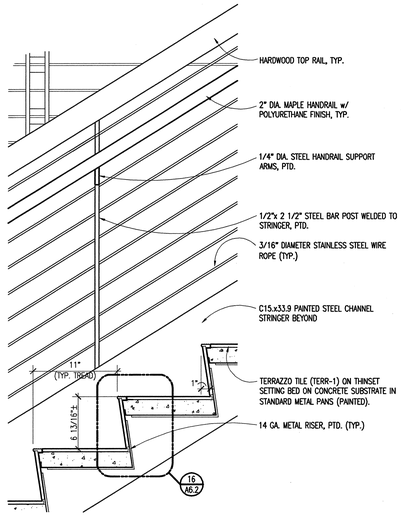
9 A6.1 STRINGER AT BOTTOM OF STAIR

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



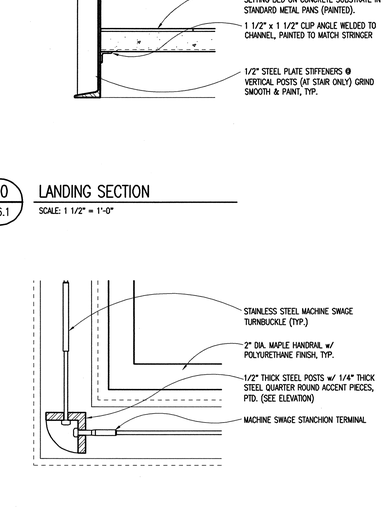
8 A6.1 LANDING SECTION

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



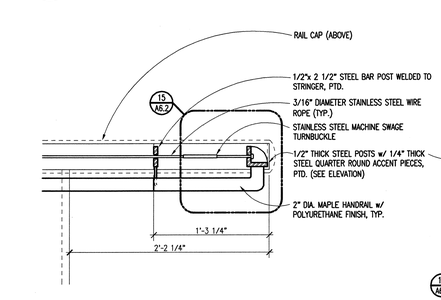
7 A6.1 STAIR SECTION

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



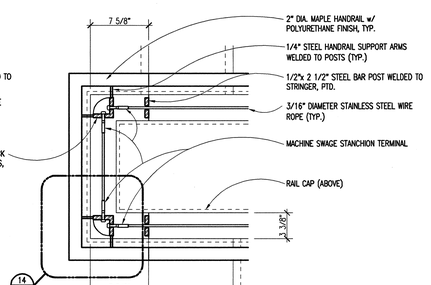
6 A6.1 SECTION AT TOP OF STAIR

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



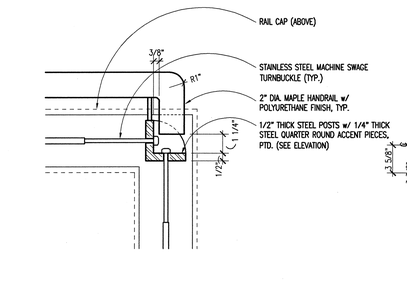
4 A6.1 PLAN DETAIL AT BOTTOM OF STAIR

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



3 A6.1 PLAN DETAIL AT INSIDE CORNER OF LANDING

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



2 A6.2 PLAN DETAIL OF HANDRAIL RETURN

SCALE: 3" = 1'-0"

TMP ASSOCIATES INC
1391 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Plan and Section Details

c:\Directory\filename.dwg

DATE:	ISSUED FOR:
9-08-06	AS-BUILT
6-17-04	BULLETIN NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW

DRAWN MML

CHECKED

APPROVED

PROJECT NO.

CP03111

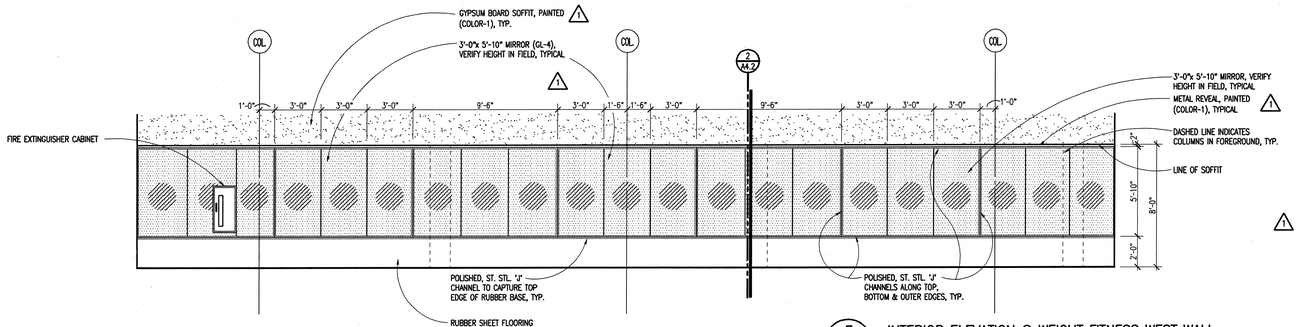
TMP PROJECT NO. 03118

SHEET NO.

A6.2

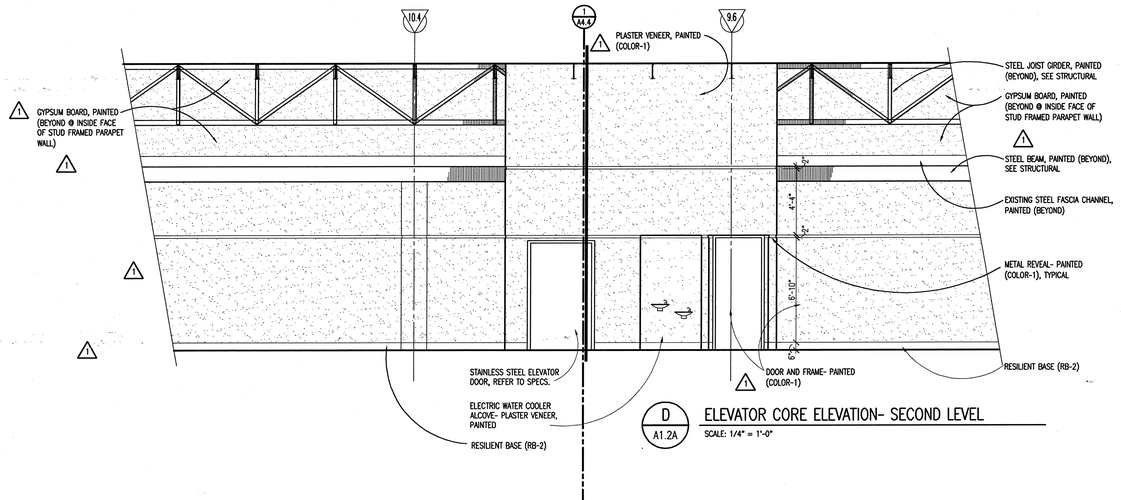
SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111



F A1.1A INTERIOR ELEVATION @ WEIGHT FITNESS WEST WALL

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

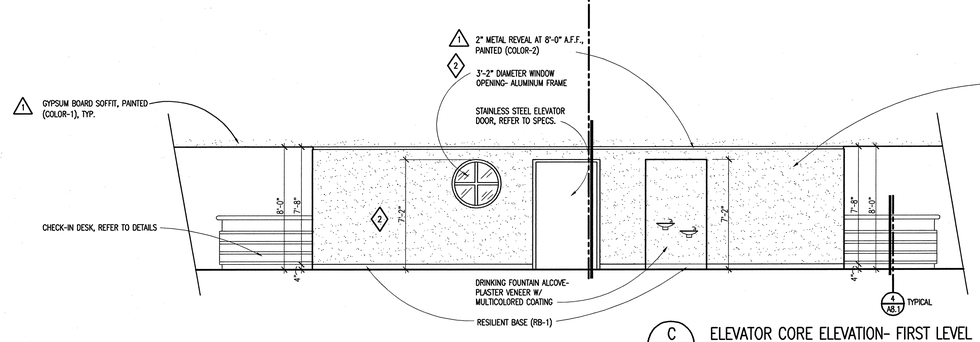


E A1.2A (NOT USED)

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

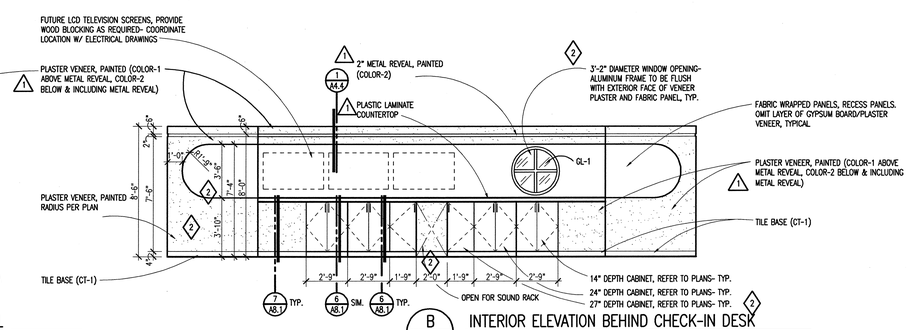
D A1.2A ELEVATOR CORE ELEVATION- SECOND LEVEL

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



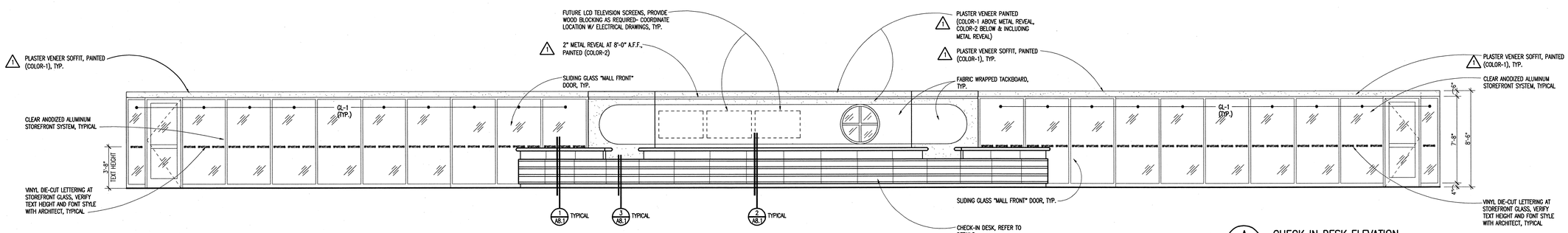
C A6.1A ELEVATOR CORE ELEVATION- FIRST LEVEL

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



B A6.1A INTERIOR ELEVATION BEHIND CHECK-IN DESK

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



A A1.1A CHECK-IN DESK ELEVATION

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

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO @TMP-ARCHITECTURE.COM

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Interior Elevations

DATE:	ISSUED FOR:
9-08-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW
1-5-04	OWNER REVIEW
DRAWN	RJF
CHECKED	MWE
APPROVED	DWL

PROJECT NO.

CP03111

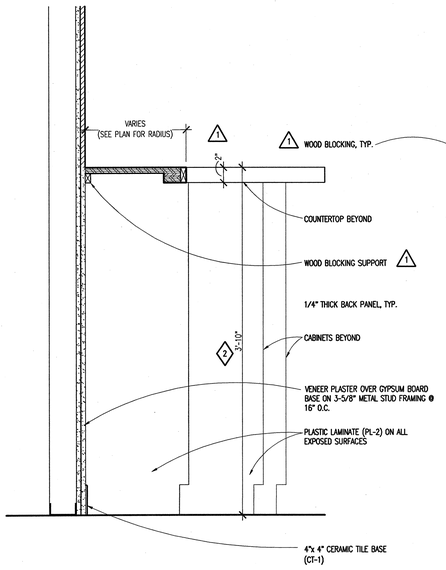
TMP PROJECT NO. 0311B

SHEET NO.

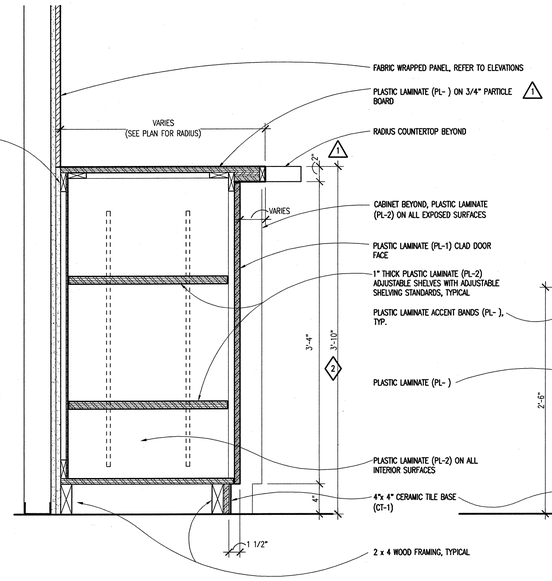
A7.1

GENERAL NOTES

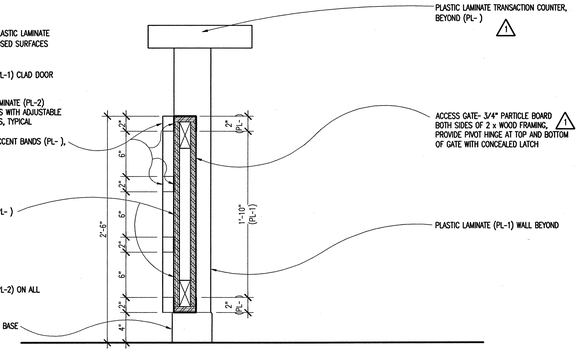
1. (NOT USED) ⚠1
2. (NOT USED) ⚠1
3. PLASTIC LAMINATE "PL-1" IS TO BE USED AT THE OUTSIDE OF THE DESK, AT ALL RETURN WALLS, AND BACKSIDE OF ACCESS GATE. PLASTIC LAMINATE "PL-2" IS TO BE USED ON INSIDE SURFACES OF THE DESK.

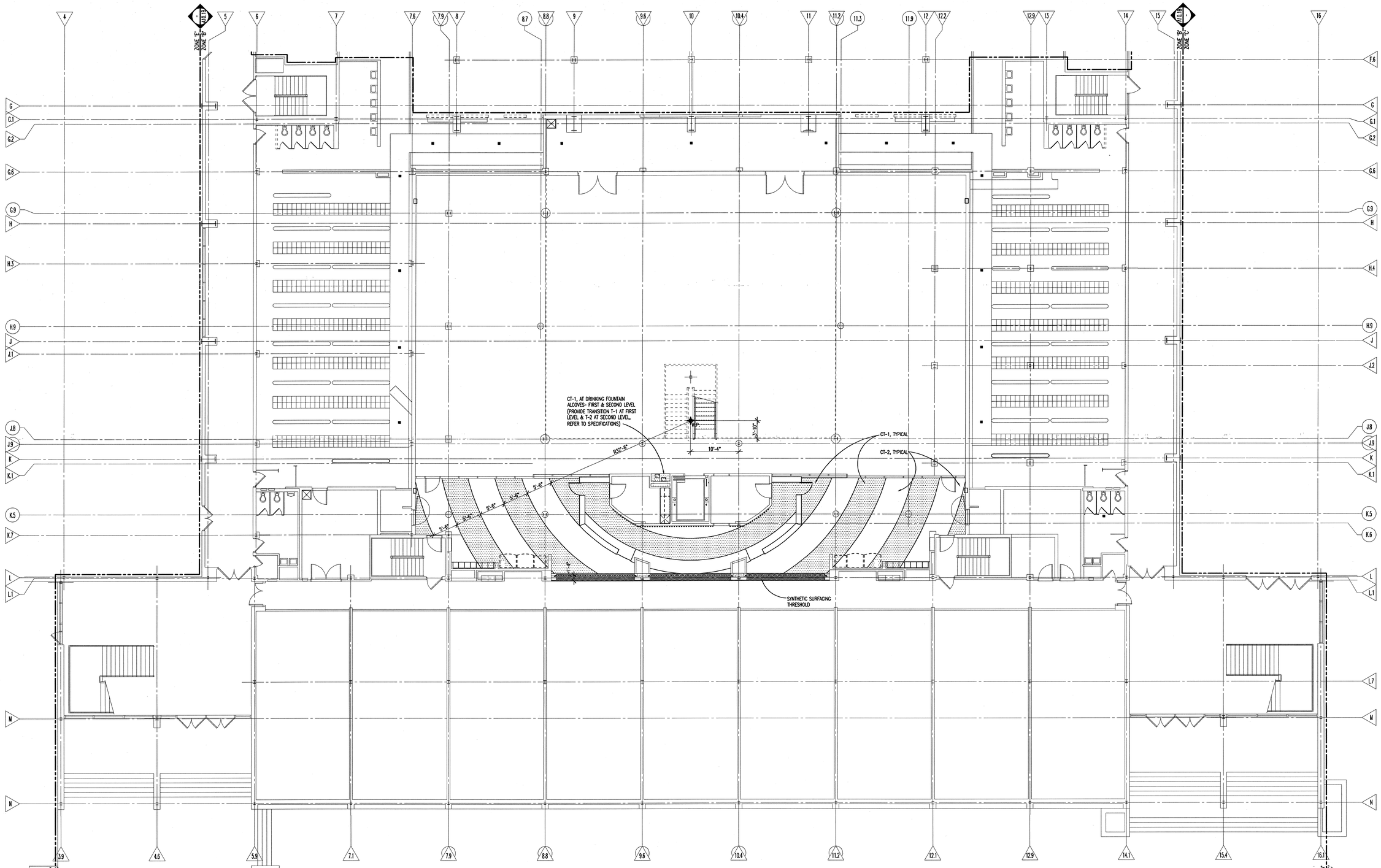


7 A6.1 SECTION BEHIND CHECK IN DESK
SCALE: 1 1/2" = 1'-0"



6 A6.1 SECTION BEHIND CHECK IN DESK
SCALE: 1 1/2" = 1'-0"


PLASTIC LAMINATE TRANSACTION COUNTER, BEYOND (PL-) ⚠1
ACCESS GATE- 3/4" PARTICLE BOARD BOTH SIDES OF 2 x WOOD FRAMING. PROVIDE PIVOT HINGE AT TOP AND BOTTOM OF GATE WITH CONCEALED LATCH ⚠1
PLASTIC LAMINATE (PL-1) WALL BEYOND
2'-8"
6"
6"
6"
6"
6"
6"
4"
2"
2"
2



FIRST LEVEL FLOOR PATTERN PLAN - ZONE 'A'

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

TMP ARCHITECTURE

TMP ASSOCIATES INC

1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4561 FX · 248.338.0223
EM · INFO @TMP-ARCHITECTURE.COM

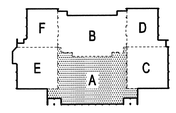
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

First Level Floor Pattern Plan - Zone 'A'



KEY PLAN
NO SCALE

c:\acad\2007\03118_____.dwg

DATE:	ISSUED FOR:
9-08-06	AS-BUILT
6-17-04	BULL. NO. 1 (REF. ONLY)
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	RJF
CHECKED	MWE
APPROVED	DWL

PROJECT NO.

CP03111

TMP PROJECT NO. 03118

SHEET NO.

A10.1A

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP03111

MECHANICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	COMPRESSED AIR
A(___#)	COMPRESSED AIR (SPECIFIC PSIG)
AV	AUTOMATIC AIR VENT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AD	AREA DRAIN
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMP	AMPERE
APD	AIR PRESSURE DROP
AR	ARGON
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ASR	AUTOMATIC SPRINKLER RISER
AUX	AUXILIARY
AV	ACID VENT
AVTR	ACID VENT THROUGH ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BCU	BLOWER COIL UNIT
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACKWATER VALVE
C	COMMON
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CB	CATCH BASIN
CC	COOLING COIL
CD	COLD DECK
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
CNDS	CONDENSATE
CNDS (___#)	CONDENSATE (SPECIFIC PSIG)
CO	CLEAN OUT
CO2	CARBON DIOXIDE
CONT	CONTINUATION OR CONTINUED
CONTR	CONTRACTOR
CONV	CONVECTOR
COS	CENTRAL OPERATOR STATION
CP	CIRCULATING PUMP
CRU	CONDENSATE RETURN UNIT
CSS	CLINICAL SERVICE SINK
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	DOMESTIC COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D&T	DRIP AND TRAP
DA	DISCHARGE AIR
DAT	DISCHARGE AIR TEMPERATURE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DMPR	DAMPER
D/N	DAY/NIGHT
DN	DOWN
DNZ	DOWNSPOUT NOZZLE
DT	DRAIN TILE
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
DWG	DRAWING
(E)	EXISTING
E	EXHAUST GRILLE OR REGISTER
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EXPANSION COMPENSATOR
ECUH	ELECTRIC CABINET UNIT HEATER
EDB	ENTERING DRY BULB
EEW	EMERGENCY EYE WASH
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ERL	ENERGY RECOVERY LOOP
ERLR	ENERGY RECOVERY LOOP RETURN
ERLS	ENERGY RECOVERY LOOP SUPPLY
ERU	ENERGY RECOVERY UNIT
ESH	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FIRE PROTECTION
°F	DEGREES FAHRENHEIT
F&B	FACE AND BYPASS
F&T	FLOAT AND THERMOSTATIC
FA	FACE AREA
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW MEASURING DEVICE
FMS	FLOW MEASURING STATION
FPM	FEET PER MINUTE
FP	FIRE PUMP
FPTU	FAN POWERED (AIR) TERMINAL UNIT
FS	FLOOR SINK
FT	FEET
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GRH	GRAVITY RELIEF HOOD
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HYDROGEN
HB	HOSE BIBB
HC	HEATING COIL
HD	HOT DECK
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE
HL	HIGH LIMIT
HOA	HAND/OFF/AUTO
HP	HEAT PUMP
HP	HORSEPOWER
HPCW	HIGH PRESSURE DOMESTIC COLD WATER
HPHW	HIGH PRESSURE DOMESTIC HOT WATER
HPHWR	HIGH PRESSURE DOMESTIC HOT WATER RETURN
HPL	HEAT PUMP LOOP
HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HR	HOUR
HTG	HEATING
HV	HEATING VENTILATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HWH	HOT WATER HEATING
HWHR	HOT WATER HEATING RETURN
HWHS	HOT WATER HEATING SUPPLY
HW	DOMESTIC HOT WATER
HW(___)	DOMESTIC HOT WATER (SPECIFIC TEMP °F)
HWR	DOMESTIC HOT WATER RETURN
HX	HEAT EXCHANGER
HZ	HERTZ
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INTAKE HOOD
IN	INCHES
IR	INFRARED HEATER
IW	INDIRECT WASTE
JC	JANITOR'S CLOSET
JP	JOCKEY PUMP
KW	KILOWATT
KWH	KILOWATT-HOUR
LAT	LEAVING AIR TEMPERATURE
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LDB	LEAVING DRY BULB
LL	LOW LIMIT
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LTU	LAB (AIR) TERMINAL UNIT
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MEDICAL COMPRESSED AIR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MMBH	MILLION BRITISH THERMAL UNITS PER HOUR
M/S	MOTOR STARTER
MTD	MOUNTED
MTR	MOTOR
MVAC	MEDICAL VACUUM
N	NITROGEN
N2O	NITROUS OXIDE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NCTC	NORMALLY CLOSED TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NFPA	NATIONAL FIRE PROTECTION AGENCY
NOTC	NORMALLY OPEN TIMED CLOSED
NOTO	NORMALLY OPEN TIMED OPEN
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPCW	NON POTABLE COLD WATER
O	OXYGEN
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER/CENTER TO CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
ORC	OVERFLOW ROOF CONDUCTOR
ORD	OVERFLOW ROOF DRAIN
OS&Y	OUTSIDE SCREW AND YOLK
OV	OUTLET VELOCITY
PACU	PACKAGED AIR CONDITIONING UNIT
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
PCW	PROCESS COOLING WATER
PCWR	PROCESS COOLING WATER RETURN
PCWS	PROCESS COOLING WATER SUPPLY
PD	PRESSURE DROP (FEET OF WATER)
PH	PERIMETER HEAT
PHR	PERIMETER HEAT RETURN
PHS	PERIMETER HEAT SUPPLY
PNL	PANEL
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
PW	PURIFIED WATER
PWR	PURIFIED WATER RETURN
PWS	PURIFIED WATER SUPPLY
(R)	RELOCATED
R	RETURN GRILLE OR REGISTER
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RC	RAIN CONDUCTOR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REQD	REQUIRED
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RLFA	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
S	SUPPLY AIR DIFFUSER OR GRILLE
SA	SOUND ATTENUATOR
SA	SUPPLY AIR
SAN	SANITARY WASTE
SAT	SUPPLY AIR TEMPERATURE
SECT	SECTION
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SQFT	SQUARE FOOT/SQUARE FEET
S/S	START/STOP
SS	SERVICE SINK
ST	STORM
STD	STANDARD
STK	STACK
STM	STEAM
STM(___#)	STEAM (SPECIFIC PSIG)
S/W	SUMMER/WINTER
SW	SWITCH
T	TRANSFER GRILLE
TC	TEMPERATURE CONTROL
TC	TEMPERING COIL
TCP	TEMPERATURE CONTROL PANEL
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TEMP	TEMPORARY
TH	TERMINAL HEATING
THR	TERMINAL HEATING RETURN
THS	TERMINAL HEATING SUPPLY
TSP	TOTAL STATIC PRESSURE
TU	(AIR) TERMINAL UNIT
TV	TURNING VANES
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UV	UNIT VENTILATOR
V	VALVE
V	VENT
VAC	VACUUM (HOUSEKEEPING)
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VOL	VOLUME
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
VUV	VERTICAL UNIT VENTILATOR
W	WASTE
W&V	WASTE AND VENT
WB	WET BULB
WC	WATER CLOSET
WC	WATER COLUMN
WG	WATER GAUGE
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
WT	WEIGHT
XFMR	TRANSFORMER

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CO2	CARBON DIOXIDE SENSOR	OS	OCCUPANCY SENSOR
CO	CARBON MONOXIDE SENSOR	PT	PRESSURE TRANSMITTER
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	SP	STATIC PRESSURE SENSOR OR PROBE
FM	FLOW METER		VALVE - 2 WAY CONTROL VALVE
	GUARD FOR STAT OR SENSOR		VALVE - 3 WAY CONTROL VALVE
H	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)	T	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

MECHANICAL SYMBOL LIST

PIPING SYMBOLS

SYMBOL	DESCRIPTION
AV	AIR VENT - AUTOMATIC
MV	AIR VENT - MANUAL
BFP	BACKFLOW PREVENTER
	CATCH BASIN
	CIRCULATING PUMP
CO	CLEAN OUT - IN FLOOR
CO	CLEAN OUT - FLANGE
	DIRECTION OF FLOW
	DIRECTION OF PITCH - DOWN
	FINNED TUBE RADIATION
	FIRE PROTECTION - SIAMESE CONNECTION - FREE STANDING
	FIRE PROTECTION - SIAMESE CONNECTION - WALL MOUNTED
	FIRE PROTECTION - SPRINKLER HEAD, CONCEALED
	FIRE PROTECTION - SPRINKLER HEAD, PENDANT
	FIRE PROTECTION - SPRINKLER HEAD, UPRIGHT
	FIRE PROTECTION - SPRINKLER HEAD, SIDEWALL
	FLOOR DRAIN
	FLOOR DRAIN - ELEVATION
FD	FLOOR DRAIN - FUNNEL
	FLOOR DRAIN - FUNNEL, ELEVATION
	FLOW MEASURING DEVICE
FS	FLOW SWITCH
HB	HOSE BIBB
MH	MANHOLE
	OPEN SITE DRAIN
	PIPE - ANCHOR
	PIPE - CAP OR PLUG
	PIPE - ELBOW DOWN
	PIPE - ELBOW UP
	PIPE - EXPANSION JOINT OR COMPENSATOR
	PIPE - FLANGE
	PIPE - FLEXIBLE CONNECTION
	PIPE - GUIDE
	PIPE - TEE DOWN
	PIPE - TEE UP
	PIPE - UNION
P/T	PRESSURE AND TEMPERATURE TEST PLUG
	PRESSURE GAUGE AND COCK
	REDUCER - CONCENTRIC
	REDUCER - ECCENTRIC
RD	ROOF DRAIN
	STEAM TRAP - FLOAT AND THERMOSTATIC
	STRAINER
	STRAINER WITH BLOW-OFF
	THERMOMETER
	TRAP
	VALVE - ANGLE
	VALVE - BALL
	VALVE - BALANCE
	VALVE - BUTTERFLY
	VALVE - COMBINATION BALANCE & FLOW MEASURING
	VALVE - CHECK
	VALVE - SPRING CHECK
	VALVE - GAS (MANUAL)
	VALVE - GLOBE
	VALVE - ISOLATION
	VALVE - NEEDLE
	VALVE - OS&Y
	VALVE - PLUG
	VALVE - PRESSURE REGULATING
	VALVE - PRESSURE REDUCING
	VALVE - PRESSURE RELIEF
	VALVE - PRESSURE & TEMPERATURE RELIEF
VTR	VENT THROUGH ROOF
WH	WALL HYDRANT

DOUBLE LINE PIPING SYMBOLS

SYMBOL	DESCRIPTION
	FLANGE
	FLEX CONNECTION
	STRAINER - BASKET
	STRAINER - Y TYPE
	VALVE - 2 WAY CONTROL
	VALVE - 3 WAY CONTROL
	VALVE - BUTTERFLY
	VALVE - CHECK
	VALVE - DETECTOR CHECK
	VALVE - OS&Y HORIZONTAL STEM
	VALVE - OS&Y VERTICAL STEM

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
2	AIR TERMINAL UNIT
2	AIR TERMINAL UNIT WITH HEATING COIL
	AIR TERMINAL UNIT - LABORATORY
	DAMPER - HORIZONTAL FIRE (EXISTING, NEW)
	DAMPER - HORIZONTAL FIRE / SMOKE (EXISTING, NEW)
	DAMPER - SMOKE (EXISTING, NEW)
	DAMPER - VERTICAL FIRE (EXISTING, NEW)
	DAMPER - VERTICAL FIRE / SMOKE (EXISTING, NEW)
M	DAMPER - MOTORIZED
	DAMPER - VOLUME (MANUALLY ADJUSTABLE)
	DIFFUSER - BLANK OFF
	DIFFUSER - LINEAR SLOT
	DIFFUSER - SQUARE OR RECTANGULAR
	DUCT CROSS SECTION - SUPPLY
	DUCT CROSS SECTION - RETURN OR EXHAUST
	DUCT - FLEXIBLE CONNECTION
	DUCT - FLEXIBLE DUCT
	DUCT TAKE-OFF - ROUND CONICAL
	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
	ELBOW - RECTANGULAR WITH TURNING VANES
	ELBOW - RECTANGULAR/ ROUND SMOOTH RADIUS
	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
	ELBOW UP - RECTANGULAR
	ELBOW UP - ROUND
	HEATING COIL
D	INCLINED DROP IN DIRECTION OF AIRFLOW
R	INCLINED RISE IN DIRECTION OF AIRFLOW
	INTAKE OR RELIEF HOOD
	REGISTER - RETURN OR EXHAUST
	REGISTER - RETURN WITH BOOT
	REGISTER - TRANSFER GRILLE
	ROOF EXHAUST FAN
	TRANSITION - CONCENTRIC
	TRANSITION - ECCENTRIC
	UNIT HEATER - HORIZONTAL THROW
	UNIT HEATER - VERTICAL THROW

DOUBLE LINE DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
	DUCT TAKE-OFF - ROUND CONICAL
	ELBOW - RECTANGULAR WITH TURNING VANES
	ELBOW - RECTANGULAR SHORT RADIUS WITH SPLITTER VANES
	ELBOW - ROUND
	ELBOW - RECTANGULAR SMOOTH RADIUS
	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
	ELBOW UP - RECTANGULAR
	ELBOW UP - ROUND
	HEATING COIL
D	INCLINED DROP IN DIRECTION OF AIRFLOW
R	INCLINED RISE IN DIRECTION OF AIRFLOW
	TRANSITION - CONCENTRIC
	TRANSITION - ECCENTRIC

MECHANICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
MG	MECHANICAL STANDARDS AND DRAWING INDEX
M0.0	BASEMENT COMPOSITE FIRE PROTECTION PLAN
M0.1	FIRST LEVEL COMPOSITE FIRE PROTECTION PLAN
M0.2	SECOND LEVEL COMPOSITE FIRE PROTECTION PLAN
M0.3	THIRD LEVEL COMPOSITE FIRE PROTECTION PLAN
M0.0A	BASEMENT/UNDERGROUND MECHANICAL DEMOLITION PLAN - ZONE 'A'
M0.0B	BASEMENT/UNDERGROUND MECHANICAL DEMOLITION PLAN - ZONE 'B'
M0.1A	FIRST LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'A'
M0.2A	SECOND LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'A'
M0.3A	THIRD LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'A'
M0.3B	THIRD LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'B'
M1.1A	FIRST LEVEL PLUMBING PLAN - ZONE 'A'
M1.2A	SECOND LEVEL PLUMBING PLAN - ZONE 'A'
M1.3A	THIRD LEVEL PLUMBING PLAN - ZONE 'A'
M2.0B	BASEMENT LEVEL HVAC PLAN - ZONE 'B'
M2.1A	FIRST LEVEL HVAC PLAN - ZONE 'A'
M2.1B	FIRST LEVEL HVAC PLAN - ZONE 'B'
M2.1D	FIRST LEVEL HVAC PLAN - ZONE 'D'
M2.2A	SECOND LEVEL HVAC PLAN - ZONE 'A'
M2.3A	THIRD LEVEL HVAC PLAN - ZONE 'A'
M2.3B	THIRD LEVEL HVAC PLAN - ZONE 'B'
M2.4	MECHANICAL ROOF PLAN
M3.1	MECHANICAL SCHEDULES
M3.2	MECHANICAL SCHEDULES
M4.1	ENLARGED MECHANICAL ROOM PLANS
M4.2	ENLARGED MECHANICAL ROOM PLANS
M4.3	ENLARGED PLUMBING AND FIRE PROTECTION PLANS
M4.4	MECHANICAL SECTIONS
M4.5	MECHANICAL SECTIONS
M4.6	MECHANICAL SECTIONS
M5.1	MECHANICAL DETAILS
M5.2	MECHANICAL DETAILS
M5.3	MECHANICAL DETAILS
M6.1	TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
M6.2	TEMPERATURE CONTROLS
M6.3	TEMPERATURE CONTROLS
M6.4	TEMPERATURE CONTROLS

STANDARD METHODS OF NOTATION

S-1 10ø 350-4	SUPPLY DIFFUSER WITH SCHEDULE TAG "1", 10" DIAMETER NECK SIZE 350 CFM TYPICAL FOR 4
R-1 22x22 640-2	RETURN REGISTER WITH SCHEDULE TAG "1", 22"x 22" NECK SIZE 640 CFM TYPICAL FOR 2 EXHAUST REGISTER E DESIGNATION SIMILAR.
700/200 330 OA 1	AIR TERMINAL UNIT WITH HEATING COIL, SIZE 1 700 CFM MAX / 200 CFM MIN 330 CFM DESIGN (FULL OCCUPANCY) OUTSIDE AIR RATE
1	CONSTRUCTION NOTE NUMBER
1	DEMOLITION NOTE NUMBER
EF 1	EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1)
HW-1	PIPING RISER DESIGNATION (i.e. HOT WATER RISER NUMBER 1)

NEW SYSTEM COMPONENT

EXISTING SYSTEM COMPONENT TO REMAIN

POINT OF NEW CONNECTION SYMBOL

1 / M5.1 — SECTION OR PLAN NUMBER; SHEET WHERE SECTION IS DRAWN

AREA OF ENLARGEMENT

1 / M5.1 — PLAN NUMBER; SHEET WHERE ENLARGED PLAN IS DRAWN

1 / M5.1 — SECTION OR PLAN NUMBER; SHEET WHERE SECTION IS CUT OR ENLARGED PLAN IS REFERENCED

1 / M5.1 **SECTION OR ENLARGED PLAN**
SCALE: 1/8" = 1'-0" (0 1 4 8)

SHEET M1.0 / SHEET M1.1 — MATCH LINE

HEAVY LINE WEIGHT INDICATES NEW WORK

LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT OR REFERENCED INFORMATION

DASHED LINES INDICATE PIPING ROUTED BELOW SLAB OR GRADE

HATCH MARKS INDICATE EQUIPMENT TO BE DISCONNECTED AND REMOVED.

NOTE: ALL SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4565 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel. 248-879-5666
Fax. 248-879-0007
www.pbainet.com
PBA Project No. 203205

ISO 9001:2000 Registered

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Mechanical Standards and Drawing Index

DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULL. NO. 1 (REF. ONLY)
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	TLC
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

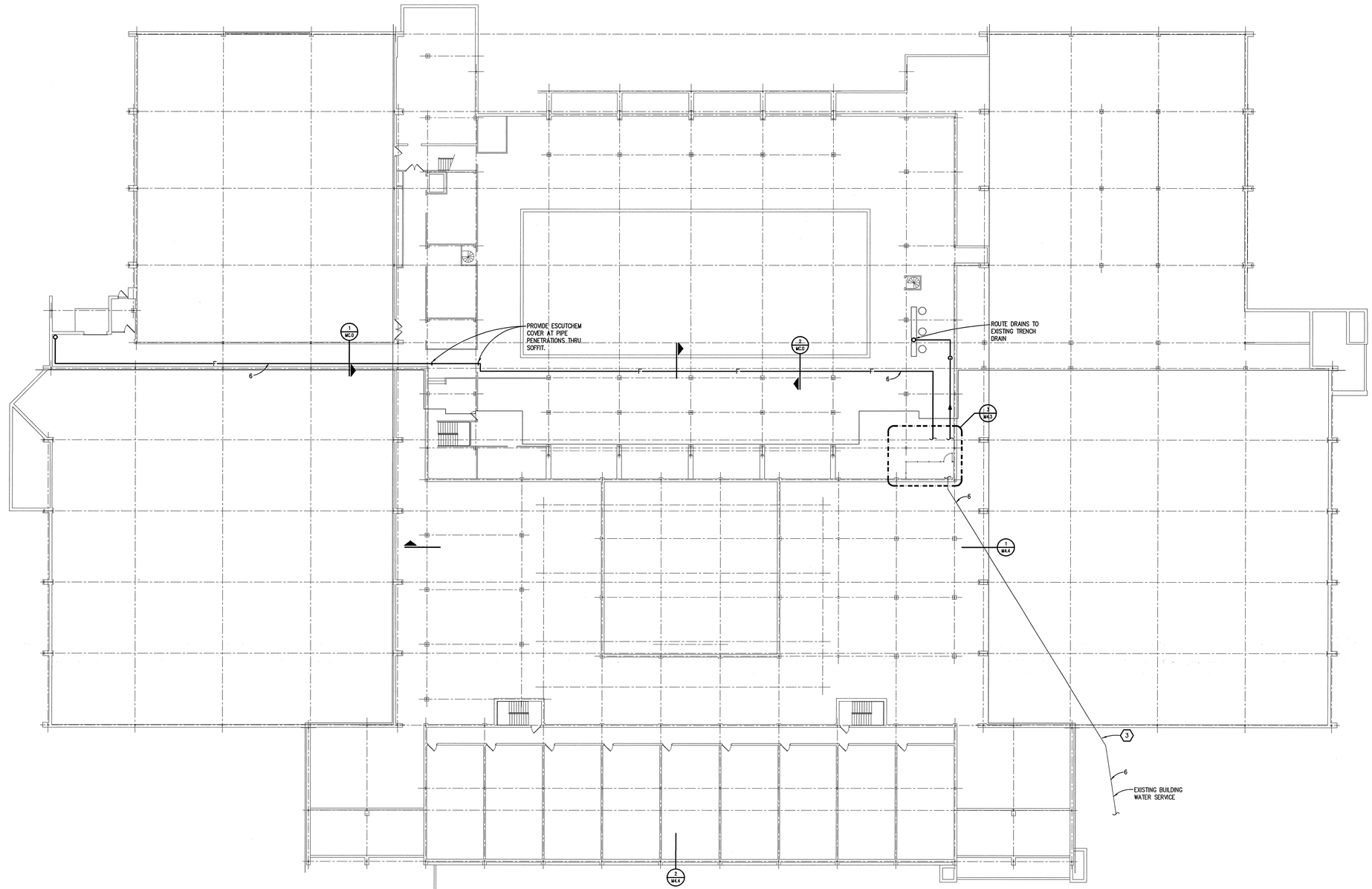
CP03111

TMP PROJECT NO. 03118

SHEET NO.

MG

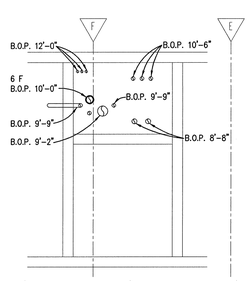
G:\2003\2032205\Cad\2032205-Mbe-IND.dwg, MG, 9/27/2006 2:32:15 PM, JOHara, Xerox Bond 60SD.pc3, 1:1, Peter Basso Associates Inc.



BASEMENT COMPOSITE FIRE PROTECTION PLAN

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

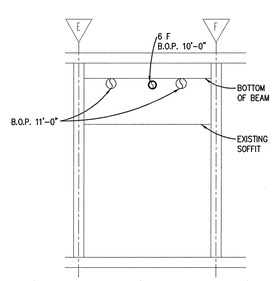
0 2 8 16



1 MC.0 **SECTION**

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

0 1 2 4



2 MC.0 **SECTION**

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

0 1 2 4

FIRE PROTECTION GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
2. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL UNIT HEATING COILS, OR OTHER EQUIPMENT.
3. MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
4. AREAS DESIGNATED AS MECHANICAL OR ELECTRICAL ROOMS, JANITOR CLOSETS, TOILET ROOMS, BASEMENT AND RECEIVING AREAS SHALL BE DESIGNATED ORDINARY HAZARD GROUP 2, WITH A DENSITY OF 0.20 GPM/SQFT FOR THE MOST REMOTE 3,000 SQFT. ALL OTHER AREAS SHALL BE DESIGNATED LIGHT HAZARD OCCUPANCY WITH A DENSITY OF 0.10 GPM/SQFT FOR THE MOST REMOTE 1,500 SQFT.
5. ACCORDING TO THE MOST RECENT INFORMATION, THE STATIC PRESSURE AVAILABLE WHERE INDICATED ON SHEET MC.0, CONSTRUCTION NOTE #3, IS 59.6 PSIG. RESIDUAL PRESSURE WITH 1700 GPM FLOWING IS 20 PSIG. CONTRACTOR SHALL MAKE PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN.

CONSTRUCTION NOTES:

1. PROVIDE HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE PROTECTION SYSTEM WITHIN SHADED AREA IN ACCORDANCE WITH NFPA 13. REFER TO FIRE PROTECTION GENERAL NOTES.
2. COORDINATE FIRE PROTECTION PIPING WITH CONDENSATE PIPING, ELECTRICAL CONDUITS AND EXISTING CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR INFORMATION ON WALL REMOVAL AND PATCHING.
3. REFERENCE LOCATION FOR WATER PRESSURE DATA (GENERAL NOTE #5).
4. PROVIDE CHROME PLATED SPRINKLER HEADS IN LOBBY AREA AS INDICATED.
5. PROVIDE FIRE PROTECTION SPRINKLER HEAD(S) BELOW STAIR.
6. PROVIDE SPRINKLER HEAD AT BOTTOM OF ELEVATOR SHAFT. PROVIDE FIRE DEPARTMENT ISOLATION VALVE BOX.
7. SKYLIGHT ABOVE – PROVIDE SIDEWALL SPRINKLER HEADS SERVING THIS AREA.
8. SUSPENDED SOFFIT – REFER TO ARCHITECTURAL DRAWINGS.

SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

ISO 9001: 2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel. 248-879-5666
Fax. 248-879-0007
www.pbainet.com
PBA Project No. 203205

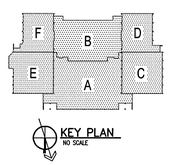
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Basement Composite Fire Protection Plan



DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULL. NO. 1 (REF. ONLY)
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	DBC
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

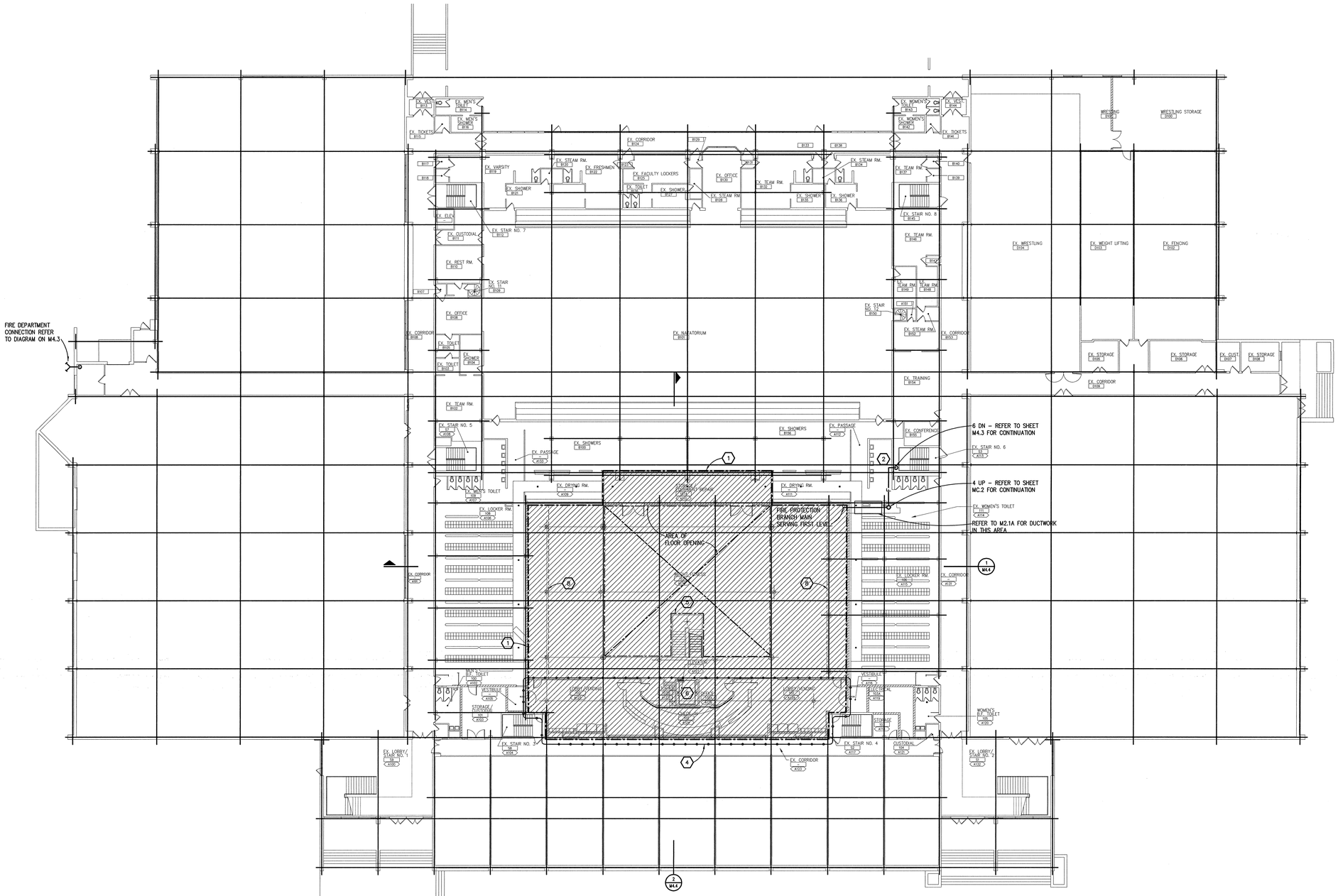
CP03111

TMP PROJECT NO. 03118

SHEET NO.

MC.0

G:\2003\203205\Cad\203205-Mbs-FP0.dwg, MC.0, 9/27/2006 2:32:09 PM, JOMara, Xerox Bond 6050.pc3, 1:1, Peter Basso Associates Inc.



FIRST LEVEL COMPOSITE FIRE PROTECTION PLAN

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

0 2 8 16

FIRE PROTECTION GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
2. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL UNIT HEATING COILS, OR OTHER EQUIPMENT.
3. MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
4. AREAS DESIGNATED AS MECHANICAL OR ELECTRICAL ROOMS, JANITOR CLOSETS, TOILET ROOMS, BASEMENT AND RECEIVING AREAS SHALL BE DESIGNATED ORDINARY HAZARD GROUP 2, WITH A DENSITY OF 0.20 GPM/SQFT FOR THE MOST REMOTE 3,000 SQFT. ALL OTHER AREAS SHALL BE DESIGNATED LIGHT HAZARD OCCUPANCY WITH A DENSITY OF 0.10 GPM/SQFT FOR THE MOST REMOTE 1,500 SQFT.
5. ACCORDING TO THE MOST RECENT INFORMATION, THE STATIC PRESSURE AVAILABLE WHERE INDICATED ON SHEET MC.0, CONSTRUCTION NOTE #3, IS 59.6 PSIG. RESIDUAL PRESSURE WITH 1700 GPM FLOWING IS 20 PSIG. CONTRACTOR SHALL MAKE PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN.

CONSTRUCTION NOTES:

1. PROVIDE HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE PROTECTION SYSTEM WITHIN SHADED AREA IN ACCORDANCE WITH NFPA 13. REFER TO FIRE PROTECTION GENERAL NOTES.
2. COORDINATE FIRE PROTECTION PIPING WITH CONDENSATE PIPING, ELECTRICAL CONDUITS AND EXISTING CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR INFORMATION ON WALL REMOVAL AND PATCHING.
3. REFERENCE LOCATION FOR WATER PRESSURE DATA (GENERAL NOTE #5).
4. PROVIDE CHROME PLATED SPRINKLER HEADS IN LOBBY AREA AS INDICATED.
5. PROVIDE FIRE PROTECTION SPRINKLER HEAD(S) BELOW STAIR.
6. PROVIDE SPRINKLER HEAD AT BOTTOM OF ELEVATOR SHAFT. PROVIDE FIRE DEPARTMENT ISOLATION VALVE BOX.
7. SKYLIGHT ABOVE – PROVIDE SIDEWALL SPRINKLER HEADS SERVING THIS AREA.
8. SUSPENDED SOFFIT – REFER TO ARCHITECTURAL DRAWINGS.

SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4565 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

ISO 9001: 2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2276
Tel. 248-879-5666
Fax. 248-879-0007
www.pbainet.com
PBA Project No. 203205

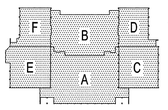
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

First Level Composite Fire Protection Plan



KEY PLAN
NO SCALE

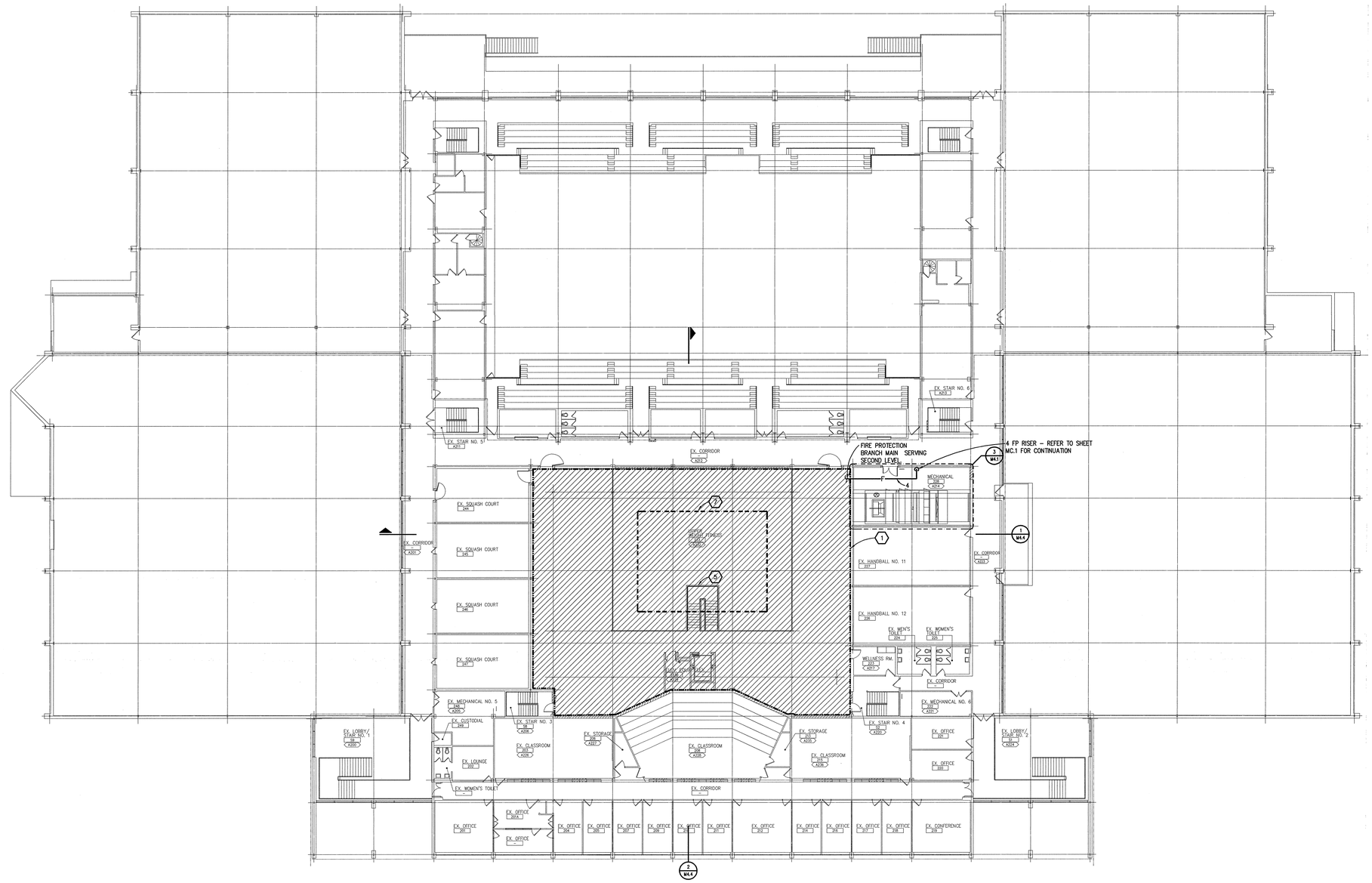
DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULL. NO. 1 (REF. ONLY)
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	DBC
CHECKED	NPB
APPROVED	DJE

PROJECT NO.
CP03111
TMP PROJECT NO. 03118

SHEET NO.
MC.1

G:\2003\2003205\Cad\203205-M0b-FP1.dwg, MC.1, 9/27/2006 2:32:01 PM, JOHara, Xerox Bond 6050.pc3, 1:1, Peter Basso Associates Inc.



TRUE NORTH

N

SECOND LEVEL COMPOSITE FIRE PROTECTION PLAN

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

0 2 8 16

FIRE PROTECTION GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
2. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL UNIT HEATING COILS, OR OTHER EQUIPMENT.
3. MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
4. AREAS DESIGNATED AS MECHANICAL OR ELECTRICAL ROOMS, JANITOR CLOSETS, TOILET ROOMS, BASEMENT AND RECEIVING AREAS SHALL BE DESIGNATED ORDINARY HAZARD GROUP 2, WITH A DENSITY OF 0.20 GPM/SQFT FOR THE MOST REMOTE 3,000 SQFT. ALL OTHER AREAS SHALL BE DESIGNATED LIGHT HAZARD OCCUPANCY WITH A DENSITY OF 0.10 GPM/SQFT FOR THE MOST REMOTE 1,500 SQFT.
5. ACCORDING TO THE MOST RECENT INFORMATION, THE STATIC PRESSURE AVAILABLE WHERE INDICATED ON SHEET MC.0, CONSTRUCTION NOTE #3, IS 59.6 PSIG. RESIDUAL PRESSURE WITH 1700 GPM FLOWING IS 20 PSIG. CONTRACTOR SHALL MAKE PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN.

CONSTRUCTION NOTES:

1. PROVIDE HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE PROTECTION SYSTEM WITHIN SHADED AREA IN ACCORDANCE WITH NFPA 13. REFER TO FIRE PROTECTION GENERAL NOTES.
2. COORDINATE FIRE PROTECTION PIPING WITH CONDENSATE PIPING, ELECTRICAL CONDUITS AND EXISTING CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR INFORMATION ON WALL REMOVAL AND PATCHING.
3. REFERENCE LOCATION FOR WATER PRESSURE DATA (GENERAL NOTE #5).
4. PROVIDE CHROME PLATED SPRINKLER HEADS IN LOBBY AREA AS INDICATED.
5. PROVIDE FIRE PROTECTION SPRINKLER HEAD(S) BELOW STAIR.
6. PROVIDE SPRINKLER HEAD AT BOTTOM OF ELEVATOR SHAFT. PROVIDE FIRE DEPARTMENT ISOLATION VALVE BOX.
7. SKYLIGHT ABOVE – PROVIDE SIDEWALL SPRINKLER HEADS SERVING THIS AREA.
8. SUSPENDED SOFFIT – REFER TO ARCHITECTURAL DRAWINGS.

SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2276
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainc.com
PBA Project No. 203205

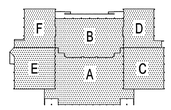
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Second Level Composite Fire Protection Plan



KEY PLAN
NO SCALE

DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULL. NO. 1 (REF. ONLY)
3-26-04	ADDENDUM NO.2
2-18-04	BIDS
1-28-04	FINAL REVIEW
DRAWN	DBC
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

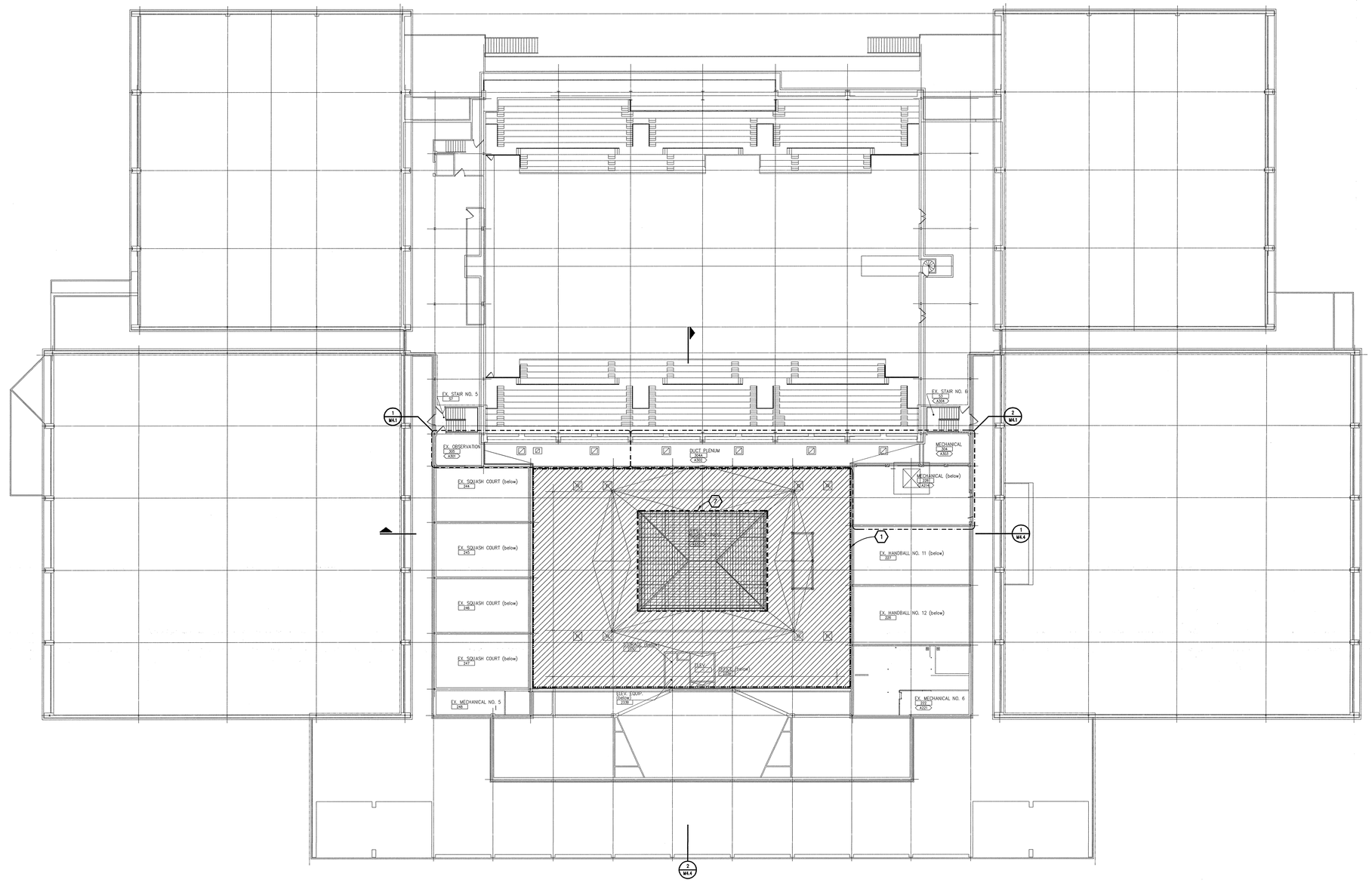
CP03111

TMP PROJECT NO. 03118

SHEET NO.

MC.2

G:\2003\203205\Cad\203205-M00-FP2.dwg, MC.2, 9/27/2006 2:31:53 PM, JOMara, Xerox Bond 60lb.pc3, 1:1, Peter Basso Associates Inc.



TRUE NORTH

THIRD LEVEL COMPOSITE FIRE PROTECTION PLAN

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

0 2 8 16

FIRE PROTECTION GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
2. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL UNIT HEATING COILS, OR OTHER EQUIPMENT.
3. MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
4. AREAS DESIGNATED AS MECHANICAL OR ELECTRICAL ROOMS, JANITOR CLOSETS, TOILET ROOMS, BASEMENT AND RECEIVING AREAS SHALL BE DESIGNATED ORDINARY HAZARD GROUP 2, WITH A DENSITY OF 0.20 GPM/SQFT FOR THE MOST REMOTE 3,000 SQFT. ALL OTHER AREAS SHALL BE DESIGNATED LIGHT HAZARD OCCUPANCY WITH A DENSITY OF 0.10 GPM/SQFT FOR THE MOST REMOTE 1,500 SQFT.
5. ACCORDING TO THE MOST RECENT INFORMATION, THE STATIC PRESSURE AVAILABLE WHERE INDICATED ON SHEET MC.0, CONSTRUCTION NOTE #3, IS 59.6 PSIG. RESIDUAL PRESSURE WITH 1700 GPM FLOWING IS 20 PSIG. CONTRACTOR SHALL MAKE PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN.

CONSTRUCTION NOTES:

1. PROVIDE HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE PROTECTION SYSTEM WITHIN SHADED AREA IN ACCORDANCE WITH NFPA 13. REFER TO FIRE PROTECTION GENERAL NOTES.
2. COORDINATE FIRE PROTECTION PIPING WITH CONDENSATE PIPING, ELECTRICAL CONDUITS AND EXISTING CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR INFORMATION ON WALL REMOVAL AND PATCHING.
3. REFERENCE LOCATION FOR WATER PRESSURE DATA (GENERAL NOTE #5).
4. PROVIDE CHROME PLATED SPRINKLER HEADS IN LOBBY AREA AS INDICATED.
5. PROVIDE FIRE PROTECTION SPRINKLER HEAD(S) BELOW STAIR.
6. PROVIDE SPRINKLER HEAD AT BOTTOM OF ELEVATOR SHAFT. PROVIDE FIRE DEPARTMENT ISOLATION VALVE BOX.
7. SKYLIGHT ABOVE – PROVIDE SIDEWALL SPRINKLER HEADS SERVING THIS AREA.
8. SUSPENDED SOFFIT – REFER TO ARCHITECTURAL DRAWINGS.

		SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)		DRAWN BY:	
		APP'D BY:	
		DATE:	
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES		SCALE:	AS NOTED
		DWG NO:	B-151-76
		CARD NO:	CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2076
Tel: 248-879-5666
Fax: 248-879-0007
www.pbaeng.com
PBA Project No. 203325

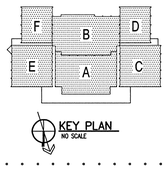
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Third Level Composite Fire Protection Plan



DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	DBC
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

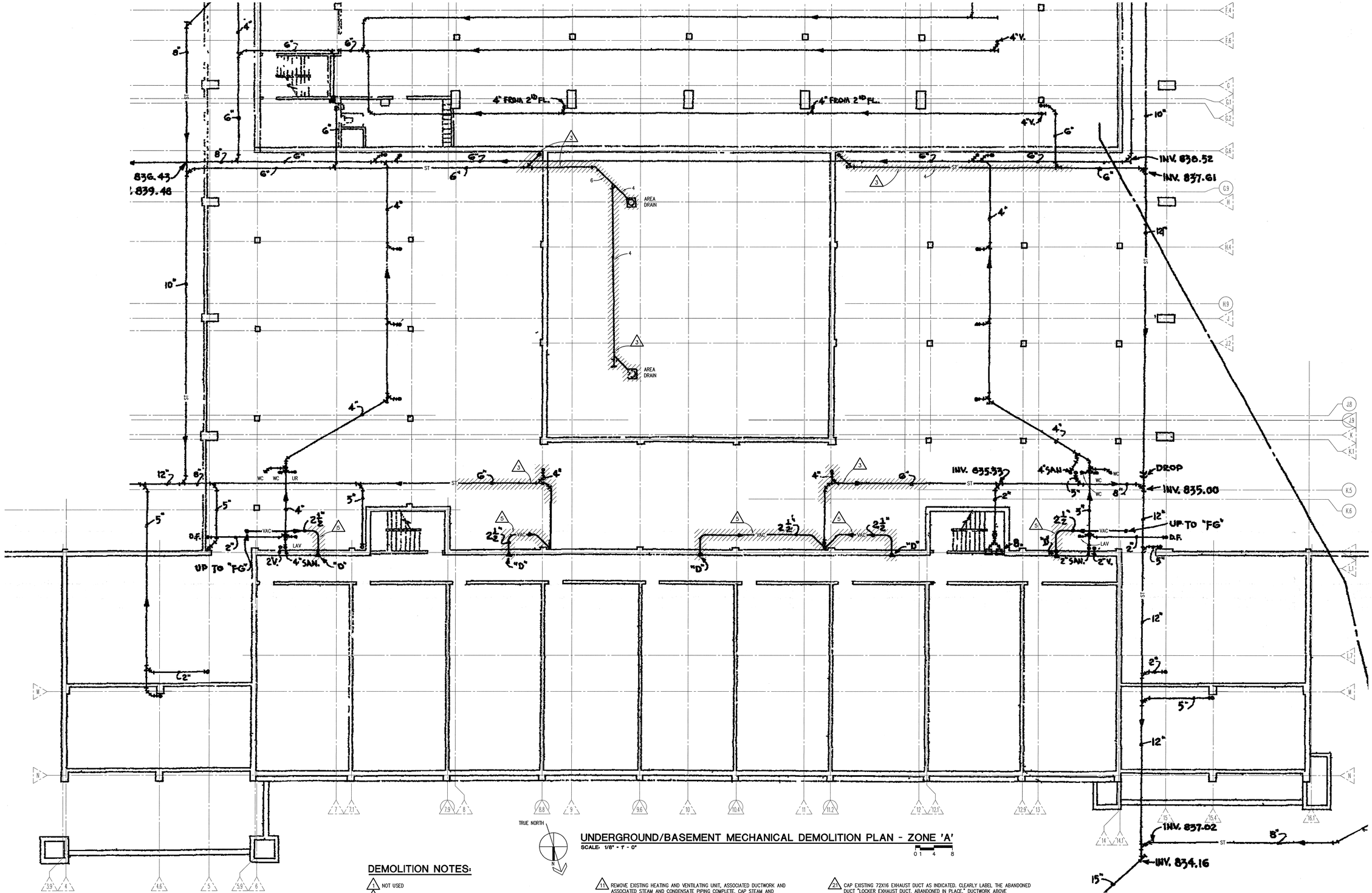
CP03111

TMP PROJECT NO. 03118

SHEET NO.

MC.3

G:\2003\2032005\Cad\2032005-MEP-FP3.dwg, MC.3, 9/27/2006 2:31:46 PM, JOMara, Xerox Bond 6950.pc3, 1:1, Peter Basso Associates Inc.



UNDERGROUND/BASEMENT MECHANICAL DEMOLITION PLAN - ZONE 'A'

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

0 1 4 8

GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
3. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION NOTES:

1. NOT USED
2. REMOVE EXISTING TRENCH DRAINS AND PIPING REQUIRED FOR THE INSTALLATION OF NEW FLOOR DRAINS. REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR NEW WORK.
3. REMOVE EXISTING PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO PLUMBING PLANS FOR NEW WORK.
4. REMOVE EXISTING STEAM AND CONDENSATE PIPING AND CAP WHERE INDICATED. PATCH FLOOR PENETRATION WHERE REQUIRED.
5. REMOVE ALL HOUSEKEEPING VACUUM PIPING AND OUTLETS AS INDICATED. ABANDON VAC PIPING IN TOILET AREAS IF ALTERNATE IS NOT ACCEPTED. PATCH WALL AT EXISTING OUTLETS THAT ARE REMOVED AS REQUIRED.
6. CAP EXISTING 28x20 SUPPLY DUCT ABOVE FLOOR WHERE IT PENETRATES UP THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE". PATCH FLOOR OPENING AS REQUIRED.
7. REMOVE EXISTING 1" STEAM PIPING AND CAP AT THE MAIN. CAP PIPING WHERE IT PENETRATES UP THROUGH THE FLOOR AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
8. REMOVE EXISTING STEAM PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
9. REMOVE EXISTING CONDENSATE PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "CONDENSATE PIPE ABANDONED IN PLACE" AT CAP.
10. REMOVE THREE THIRTEEN FOOT SECTIONS OF FINNED TUBE RADIATION ELEMENT, ENCLOSURE AND ASSOCIATED PIPING ON LEVEL ABOVE AND IN CEILING SPACE THIS LEVEL.
11. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. REMOVE THE EXISTING OUTSIDE AIR INTAKE DUCTWORK TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
12. NOT USED
13. REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING COMPLETE. PATCH WALL AS REQUIRED.
14. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO THE POINT OF CONNECTION OF NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
15. REMOVE EXISTING DUCTWORK AND CAP AS INDICATED.
16. REMOVE EXISTING EXHAUST FAN, DUCTWORK, LOUVER AND PLATFORM COMPLETE.
17. CAP EXISTING 60x18 EXHAUST DUCT WHERE IS PENETRATES THROUGH THE MECHANICAL ROOM WALL. CLEARLY LABEL THE DUCT "LOCKER ROOM EXHAUST DUCT, ABANDONED IN PLACE".
18. CAP EXISTING 28x20 SUPPLY DUCT WHERE IT PENETRATES DOWN THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE".
19. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. CAP THE EXISTING OUTSIDE AIR INTAKE IMMEDIATELY BELOW THE ROOF LEVEL SEAL WEATHER-TIGHT, ABANDON THE INTAKE HOOD IN PLACE AND CLEARLY LABEL " INTAKE HOOD, ABANDONED IN PLANCE".
20. REMOVE EXISTING EXHAUST FAN AND DUCTWORK NECESSARY FOR INSTALLATION OF NEW EXHAUST FAN AND CONNECTION TO THE EXISTING DUCTWORK.
21. CAP EXISTING 72X16 EXHAUST DUCT AS INDICATED. CLEARLY LABEL THE ABANDONED DUCT "LOCKER EXHAUST DUCT, ABANDONED IN PLACE." DUCTWORK ABOVE STAIRWELL CEILING MAY BE ABANDONED IN PLACE, REMOVE AS NECESSARY TO ACCOMMODATE INSTALLATION OF CONDUITS AND PIPING.
22. REMOVE EXISTING TRENCH DRAIN AND ASSOCIATED PIPING. CAP PIPING AT THE MAIN. PATCH FLOOR OPENING.
23. REMOVE ALL DUCTWORK AND ASSOCIATED COMPONENTS COMPLETE.
24. PATCH FLOOR OPENING AS REQUIRED.
25. REMOVE EXISTING COLD WATER PIPING AND CAP BRANCH AT MAIN IN BASEMENT BELOW.
26. EXISTING FAN AND ASSOCIATED DUCTWORK TO BE REMOVED COMPLETELY.
27. REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING, FITTINGS AND PIPE SUPPORTS TO MAIN. CAP PIPING AT MAIN.
28. REMOVE EXISTING 5" LPS PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO M4.1 FOR NEW WORK.
29. NOT USED
30. NOT USED
31. EF-21 TO REMAIN. REMOVE DISCHARGE DUCTWORK AND RELIEF HOOD TO ACCOMODATE NEW WORK. REFER TO SHEET M2.3B FOR NEW WORK.
32. REMOVE TRANSFER DUCTWORK AND GRILLES COMPLETE.
33. REMOVE ROOF DRAIN AND ASSOCIATED PIPING BACK TO THE MAIN. CAP PIPE AT THE MAIN.

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2676
Tel. 248-879-5666
Fax. 248-879-0007
www.pbainet.com
PBA Project No. 203205

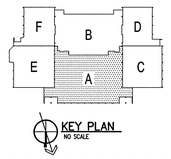
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Basement/ Underground Mechanical Demolition Plan - Zone 'A'



DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	LFJ
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

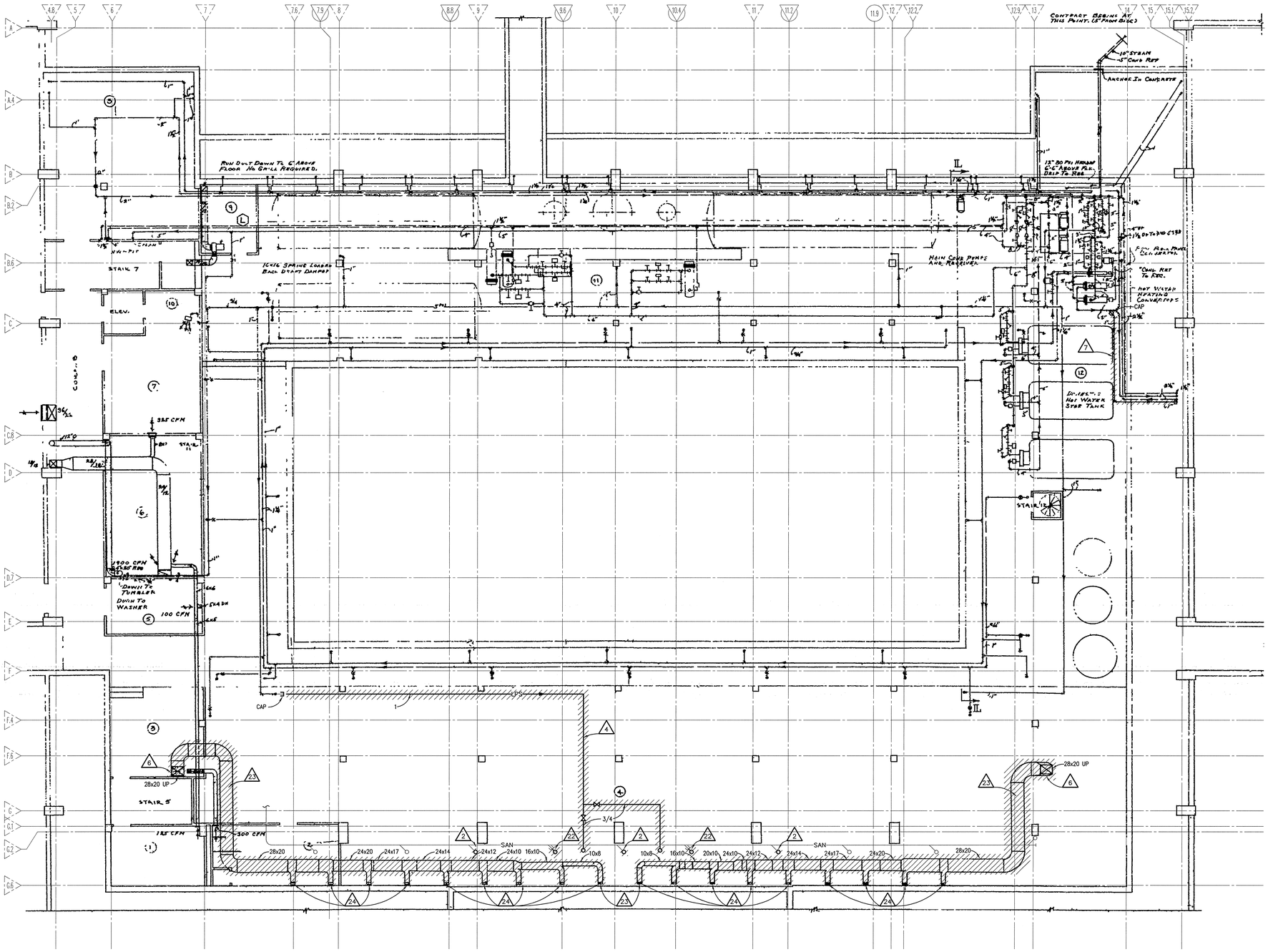
CP03111

TMP PROJECT NO. 03118

SHEET NO.

M0.0A

G:\2003\2032051Cad\2032051-M0-DPO.dwg, M0.0A, 9/27/2006 2:31:33 PM, JOHara, Xerox Bond 60lb.pc3, 1:1, Peter Basso Associates Inc.



TRUE NORTH

UNDERGROUND/BASEMENT MECHANICAL DEMOLITION PLAN - ZONE 'B'

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

0 1 4 8

GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
3. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION NOTES:

1. NOT USED
2. REMOVE EXISTING TRENCH DRAINS AND PIPING REQUIRED FOR THE INSTALLATION OF NEW FLOOR DRAINS. REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR NEW WORK.
3. REMOVE EXISTING PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO PLUMBING PLANS FOR NEW WORK.
4. REMOVE EXISTING STEAM AND CONDENSATE PIPING AND CAP WHERE INDICATED. PATCH FLOOR PENETRATION WHERE REQUIRED.
5. REMOVE ALL HOUSEKEEPING VACUUM PIPING AND OUTLETS AS INDICATED. ABANDON VAC PIPING IN TOILET AREAS IF ALTERNATE IS NOT ACCEPTED. PATCH WALL AT EXISTING OUTLETS THAT ARE REMOVED AS REQUIRED.
6. CAP EXISTING 28x20 SUPPLY DUCT ABOVE FLOOR WHERE IT PENETRATES UP THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE". PATCH FLOOR OPENING AS REQUIRED.
7. REMOVE EXISTING 1" STEAM PIPING AND CAP AT THE MAIN. CAP PIPING WHERE IT PENETRATES UP THROUGH THE FLOOR AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
8. REMOVE EXISTING STEAM PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
9. REMOVE EXISTING CONDENSATE PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "CONDENSATE PIPE ABANDONED IN PLACE" AT CAP.
10. REMOVE THREE THIRTEEN FOOT SECTIONS OF FINNED TUBE RADIATION ELEMENT, ENCLOSURE AND ASSOCIATED PIPING ON LEVEL ABOVE AND IN CEILING SPACE THIS LEVEL.
11. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. REMOVE THE EXISTING OUTSIDE AIR INTAKE DUCTWORK TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
12. NOT USED
13. REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING COMPLETE. PATCH WALL AS REQUIRED.
14. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO THE POINT OF CONNECTION OF NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
15. REMOVE EXISTING DUCTWORK AND CAP AS INDICATED.
16. REMOVE EXISTING EXHAUST FAN, DUCTWORK, LOUVER AND PLATFORM COMPLETE.
17. CAP EXISTING 60x18 EXHAUST DUCT WHERE IS PENETRATES THROUGH THE MECHANICAL ROOM WALL. CLEARLY LABEL THE DUCT "LOCKER ROOM EXHAUST DUCT, ABANDONED IN PLACE".
18. CAP EXISTING 28x20 SUPPLY DUCT WHERE IT PENETRATES DOWN THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE".
19. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. CAP THE EXISTING OUTSIDE AIR INTAKE IMMEDIATELY BELOW THE ROOF LEVEL SEAL WEATHER-TIGHT, ABANDON THE INTAKE HOOD IN PLACE AND CLEARLY LABEL " INTAKE HOOD, ABANDONED IN PLANCE".
20. REMOVE EXISTING EXHAUST FAN AND DUCTWORK NECESSARY FOR INSTALLATION OF NEW EXHAUST FAN AND CONNECTION TO THE EXISTING DUCTWORK.
21. CAP EXISTING 72X16 EXHAUST DUCT AS INDICATED. CLEARLY LABEL THE ABANDONED DUCT "LOCKER EXHAUST DUCT, ABANDONED IN PLACE." DUCTWORK ABOVE STAIRWELL CEILING MAY BE ABANDONED IN PLACE, REMOVE AS NECESSARY TO ACCOMMODATE INSTALLATION OF CONDUITS AND PIPING.
22. REMOVE EXISTING TRENCH DRAIN AND ASSOCIATED PIPING. CAP PIPING AT THE MAIN. PATCH FLOOR OPENING.
23. REMOVE ALL DUCTWORK AND ASSOCIATED COMPONENTS COMPLETE.
24. PATCH FLOOR OPENING AS REQUIRED.
25. REMOVE EXISTING COLD WATER PIPING AND CAP BRANCH AT MAIN IN BASEMENT BELOW.
26. EXISTING FAN AND ASSOCIATED DUCTWORK TO BE REMOVED COMPLETELY.
27. REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING, FITTINGS AND PIPE SUPPORTS TO MAIN. CAP PIPING AT MAIN.
28. REMOVE EXISTING 5" LPS PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO M4.1 FOR NEW WORK.
29. NOT USED
30. NOT USED
31. EF-21 TO REMAIN. REMOVE DISCHARGE DUCTWORK AND RELIEF HOOD TO ACCOMODATE NEW WORK. REFER TO SHEET M2.3B FOR NEW WORK.
32. REMOVE TRANSFER DUCTWORK AND GRILLES COMPLETE.
33. REMOVE ROOF DRAIN AND ASSOCIATED PIPING BACK TO THE MAIN. CAP PIPE AT THE MAIN.

SHEET:	OF:
I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4565 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2276
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainet.com
PBA Project No. 203205

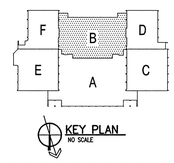
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Basement/ Underground Mechanical Demolition Plan - Zone 'B'



DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW
DRAWN	LFJ
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

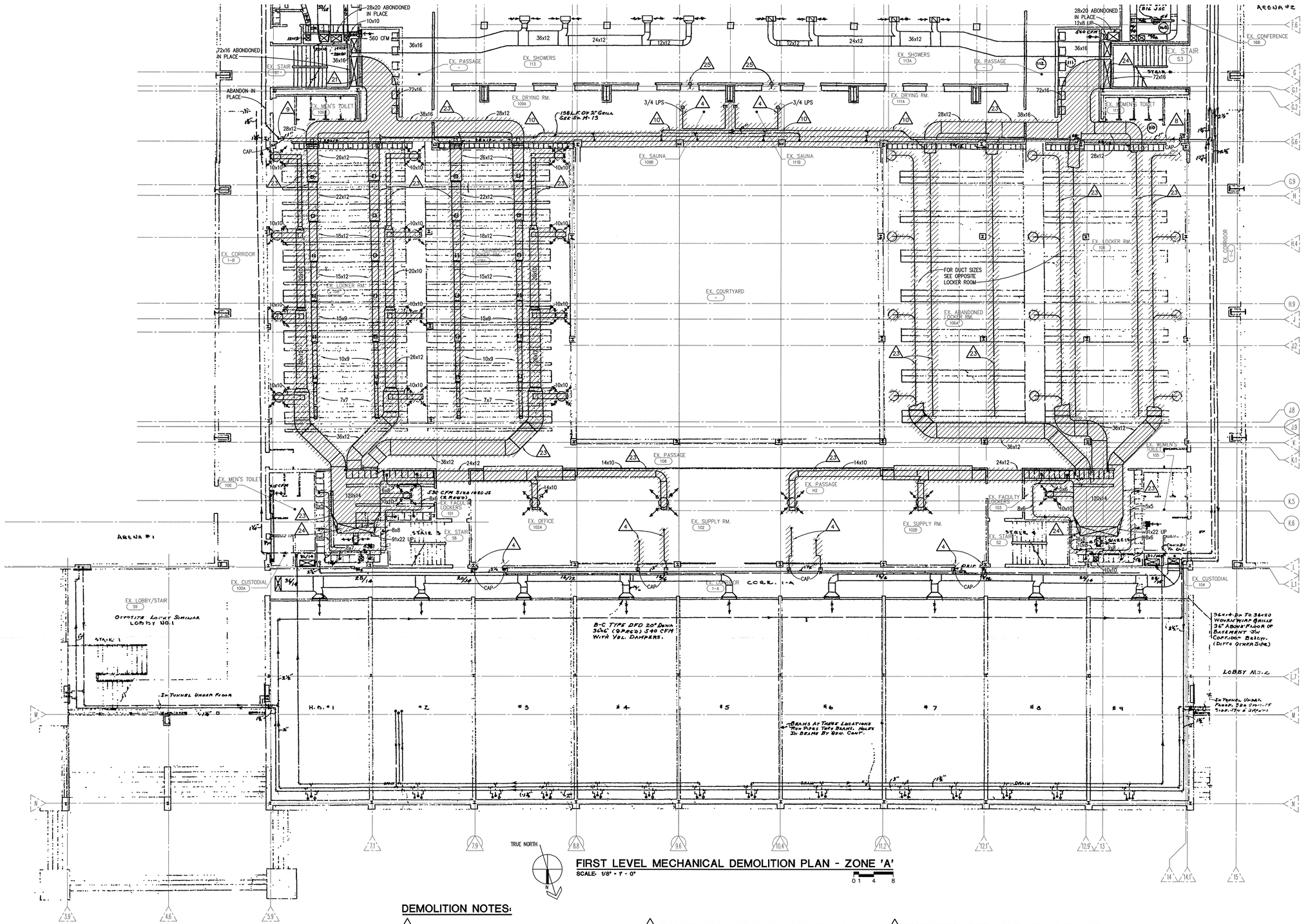
CP03111

TMP PROJECT NO. 03118

SHEET NO.

M0.0B

G:\2003\203205\Cad\203205-M0c-DP0.dwg, M0.0B, 9/27/2005 2:31:28 PM, JOHara, Xerox Bond 6050.pc3, 1:1, Peter Basso Associates Inc.



FIRST LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'A'

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

0 1 4 8

GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
3. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION NOTES:

1. NOT USED
2. REMOVE EXISTING TRENCH DRAINS AND PIPING REQUIRED FOR THE INSTALLATION OF NEW FLOOR DRAINS. REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR NEW WORK.
3. REMOVE EXISTING PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO PLUMBING PLANS FOR NEW WORK.
4. REMOVE EXISTING STEAM AND CONDENSATE PIPING AND CAP WHERE INDICATED. PATCH FLOOR PENETRATION WHERE REQUIRED.
5. REMOVE ALL HOUSEKEEPING VACUUM PIPING AND OUTLETS AS INDICATED. ABANDON VAC PIPING IN TOILET AREAS IF ALTERNATE IS NOT ACCEPTED. PATCH WALL AT EXISTING OUTLETS THAT ARE REMOVED AS REQUIRED.
6. CAP EXISTING 28x20 SUPPLY DUCT ABOVE FLOOR WHERE IT PENETRATES UP THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE". PATCH FLOOR OPENING AS REQUIRED.
7. REMOVE EXISTING 1" STEAM PIPING AND CAP AT THE MAIN. CAP PIPING WHERE IT PENETRATES UP THROUGH THE FLOOR AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
8. REMOVE EXISTING STEAM PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
9. REMOVE EXISTING CONDENSATE PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "CONDENSATE PIPE ABANDONED IN PLACE" AT CAP.
10. REMOVE THREE THIRTEEN FOOT SECTIONS OF FINNED TUBE RADIATION ELEMENT, ENCLOSURE AND ASSOCIATED PIPING ON LEVEL ABOVE AND IN CEILING SPACE THIS LEVEL.
11. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. REMOVE THE EXISTING OUTSIDE AIR INTAKE DUCTWORK TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
12. NOT USED
13. REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING COMPLETE. PATCH WALL AS REQUIRED.
14. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO THE POINT OF CONNECTION OF NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
15. REMOVE EXISTING DUCTWORK AND CAP AS INDICATED.
16. REMOVE EXISTING EXHAUST FAN, DUCTWORK, LOUVER AND PLATFORM COMPLETE.
17. CAP EXISTING 60x18 EXHAUST DUCT WHERE IS PENETRATES THROUGH THE MECHANICAL ROOM WALL. CLEARLY LABEL THE DUCT "LOCKER ROOM EXHAUST DUCT, ABANDONED IN PLACE".
18. CAP EXISTING 28x20 SUPPLY DUCT WHERE IT PENETRATES DOWN THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE".
19. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. CAP THE EXISTING OUTSIDE AIR INTAKE IMMEDIATELY BELOW THE ROOF LEVEL SEAL WEATHER-TIGHT, ABANDON THE INTAKE HOOD IN PLACE AND CLEARLY LABEL " INTAKE HOOD, ABANDONED IN PLACE".
20. REMOVE EXISTING EXHAUST FAN AND DUCTWORK NECESSARY FOR INSTALLATION OF NEW EXHAUST FAN AND CONNECTION TO THE EXISTING DUCTWORK.
21. CAP EXISTING 72X16 EXHAUST DUCT AS INDICATED. CLEARLY LABEL THE ABANDONED DUCT "LOCKER EXHAUST DUCT, ABANDONED IN PLACE." DUCTWORK ABOVE STAIRWELL CEILING MAY BE ABANDONED IN PLACE, REMOVE AS NECESSARY TO ACCOMMODATE INSTALLATION OF CONDUITS AND PIPING.
22. REMOVE EXISTING TRENCH DRAIN AND ASSOCIATED PIPING. CAP PIPING AT THE MAIN. PATCH FLOOR OPENING.
23. REMOVE ALL DUCTWORK AND ASSOCIATED COMPONENTS COMPLETE.
24. PATCH FLOOR OPENING AS REQUIRED.
25. REMOVE EXISTING COLD WATER PIPING AND CAP BRANCH AT MAIN IN BASEMENT BELOW.
26. EXISTING FAN AND ASSOCIATED DUCTWORK TO BE REMOVED COMPLETELY.
27. REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING, FITTINGS AND PIPE SUPPORTS TO MAIN. CAP PIPING AT MAIN.
28. REMOVE EXISTING 5" LPS PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO M4.1 FOR NEW WORK.
29. NOT USED
30. NOT USED
31. EF-21 TO REMAIN. REMOVE DISCHARGE DUCTWORK AND RELIEF HOOD TO ACCOMODATE NEW WORK. REFER TO SHEET M2.3B FOR NEW WORK.
32. REMOVE TRANSFER DUCTWORK AND GRILLES COMPLETE.
33. REMOVE ROOF DRAIN AND ASSOCIATED PIPING BACK TO THE MAIN. CAP PIPE AT THE MAIN.

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4565 FX - 248.338.0233
EM - INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainet.com
PBA Project No. 203205

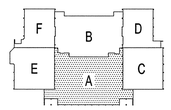
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

First Level Mechanical Demolition Plan - Zone 'A'



KEY PLAN
NO SCALE

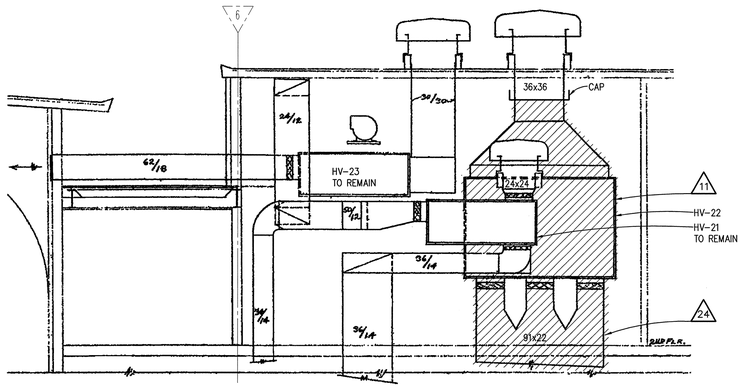
DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	DBC
CHECKED	NPB
APPROVED	DJE

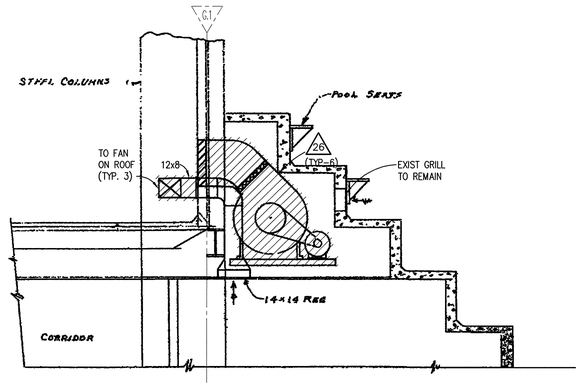
PROJECT NO.
CP03111
TMP PROJECT NO. 03118

SHEET NO.
M0.1A

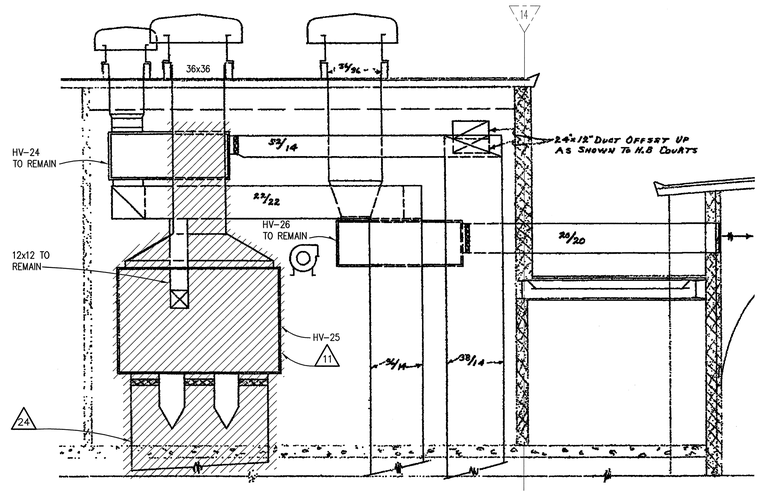
G:\2003\203205\Cad\203205-M0c-DP1.dwg, M0.1A, 9/27/2006 2:31:13 PM, JOMara, Xerox Bond 6050.pc3, 1:1, Peter Basso Associates Inc.



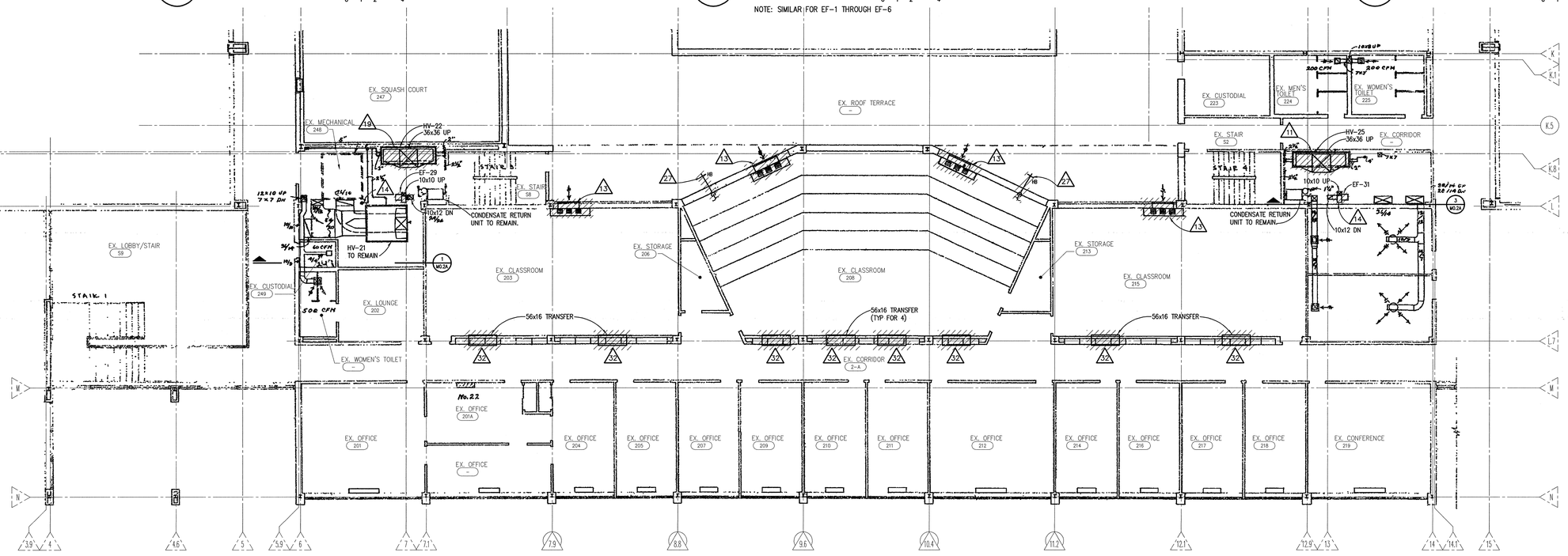
1 M0.2A **SECTION**
SCALE: 1/4" = 1' - 0"



2 M0.3B **SECTION**
SCALE: 1/4" = 1' - 0"
NOTE: SIMILAR FOR EF-1 THROUGH EF-6



3 M0.2A **SECTION**
SCALE: 1/4" = 1' - 0"



TRUE NORTH

SECOND LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'A'
SCALE: 1/8" = 1' - 0"

GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
3. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION NOTES:

1. NOT USED
2. REMOVE EXISTING TRENCH DRAINS AND PIPING REQUIRED FOR THE INSTALLATION OF NEW FLOOR DRAINS. REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR NEW WORK.
3. REMOVE EXISTING PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO PLUMBING PLANS FOR NEW WORK.
4. REMOVE EXISTING STEAM AND CONDENSATE PIPING AND CAP WHERE INDICATED. PATCH FLOOR PENETRATION WHERE REQUIRED.
5. REMOVE ALL HOUSEKEEPING VACUUM PIPING AND OUTLETS AS INDICATED. ABANDON VAC PIPING IN TOILET AREAS IF ALTERNATE IS NOT ACCEPTED. PATCH WALL AT EXISTING OUTLETS THAT ARE REMOVED AS REQUIRED.
6. CAP EXISTING 28x20 SUPPLY DUCT ABOVE FLOOR WHERE IT PENETRATES UP THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE". PATCH FLOOR OPENING AS REQUIRED.
7. REMOVE EXISTING 1" STEAM PIPING AND CAP AT THE MAIN. CAP PIPING WHERE IT PENETRATES UP THROUGH THE FLOOR AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
8. REMOVE EXISTING STEAM PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
9. REMOVE EXISTING CONDENSATE PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "CONDENSATE PIPE ABANDONED IN PLACE" AT CAP.
10. REMOVE THREE THIRTEEN FOOT SECTIONS OF FINNED TUBE RADIATION ELEMENT, ENCLOSURE AND ASSOCIATED PIPING ON LEVEL ABOVE AND IN CEILING SPACE THIS LEVEL.
11. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. REMOVE THE EXISTING OUTSIDE AIR INTAKE DUCTWORK TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
12. NOT USED
13. REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING COMPLETE. PATCH WALL AS REQUIRED.
14. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO THE POINT OF CONNECTION OF NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
15. REMOVE EXISTING DUCTWORK AND CAP AS INDICATED.
16. REMOVE EXISTING EXHAUST FAN, DUCTWORK, LOUVER AND PLATFORM COMPLETE.
17. CAP EXISTING 60x18 EXHAUST DUCT WHERE IS PENETRATES THROUGH THE MECHANICAL ROOM WALL. CLEARLY LABEL THE DUCT "LOCKER ROOM EXHAUST DUCT, ABANDONED IN PLACE".
18. CAP EXISTING 28x20 SUPPLY DUCT WHERE IT PENETRATES DOWN THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE".
19. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. CAP THE EXISTING OUTSIDE AIR INTAKE IMMEDIATELY BELOW THE ROOF LEVEL SEAL WEATHER-TIGHT, ABANDON THE INTAKE HOOD IN PLACE AND CLEARLY LABEL " INTAKE HOOD, ABANDONED IN PLACE".
20. REMOVE EXISTING EXHAUST FAN AND DUCTWORK NECESSARY FOR INSTALLATION OF NEW EXHAUST FAN AND CONNECTION TO THE EXISTING DUCTWORK.
21. CAP EXISTING 72X16 EXHAUST DUCT AS INDICATED. CLEARLY LABEL THE ABANDONED DUCT "LOCKER EXHAUST DUCT, ABANDONED IN PLACE." DUCTWORK ABOVE STAIRWELL CEILING MAY BE ABANDONED IN PLACE, REMOVE AS NECESSARY TO ACCOMMODATE INSTALLATION OF CONDUITS AND PIPING.
22. REMOVE EXISTING TRENCH DRAIN AND ASSOCIATED PIPING. CAP PIPING AT THE MAIN. PATCH FLOOR OPENING.
23. REMOVE ALL DUCTWORK AND ASSOCIATED COMPONENTS COMPLETE.
24. PATCH FLOOR OPENING AS REQUIRED.
25. REMOVE EXISTING COLD WATER PIPING AND CAP BRANCH AT MAIN IN BASEMENT BELOW.
26. EXISTING FAN AND ASSOCIATED DUCTWORK TO BE REMOVED COMPLETELY.
27. REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING, FITTINGS AND PIPE SUPPORTS TO MAIN. CAP PIPING AT MAIN.
28. REMOVE EXISTING 5" LPS PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO M4.1 FOR NEW WORK.
29. NOT USED
30. NOT USED
31. EF-21 TO REMAIN. REMOVE DISCHARGE DUCTWORK AND RELIEF HOOD TO ACCOMODATE NEW WORK. REFER TO SHEET M2.3B FOR NEW WORK.
32. REMOVE TRANSFER DUCTWORK AND GRILLES COMPLETE.
33. REMOVE ROOF DRAIN AND ASSOCIATED PIPING BACK TO THE MAIN. CAP PIPE AT THE MAIN.

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

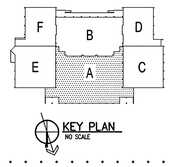
TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4061 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2676
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainc.com
PBA Project No. 203205

PROJECT TITLE
I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE
Second Level Mechanical Demolition Plan - Zone 'A'



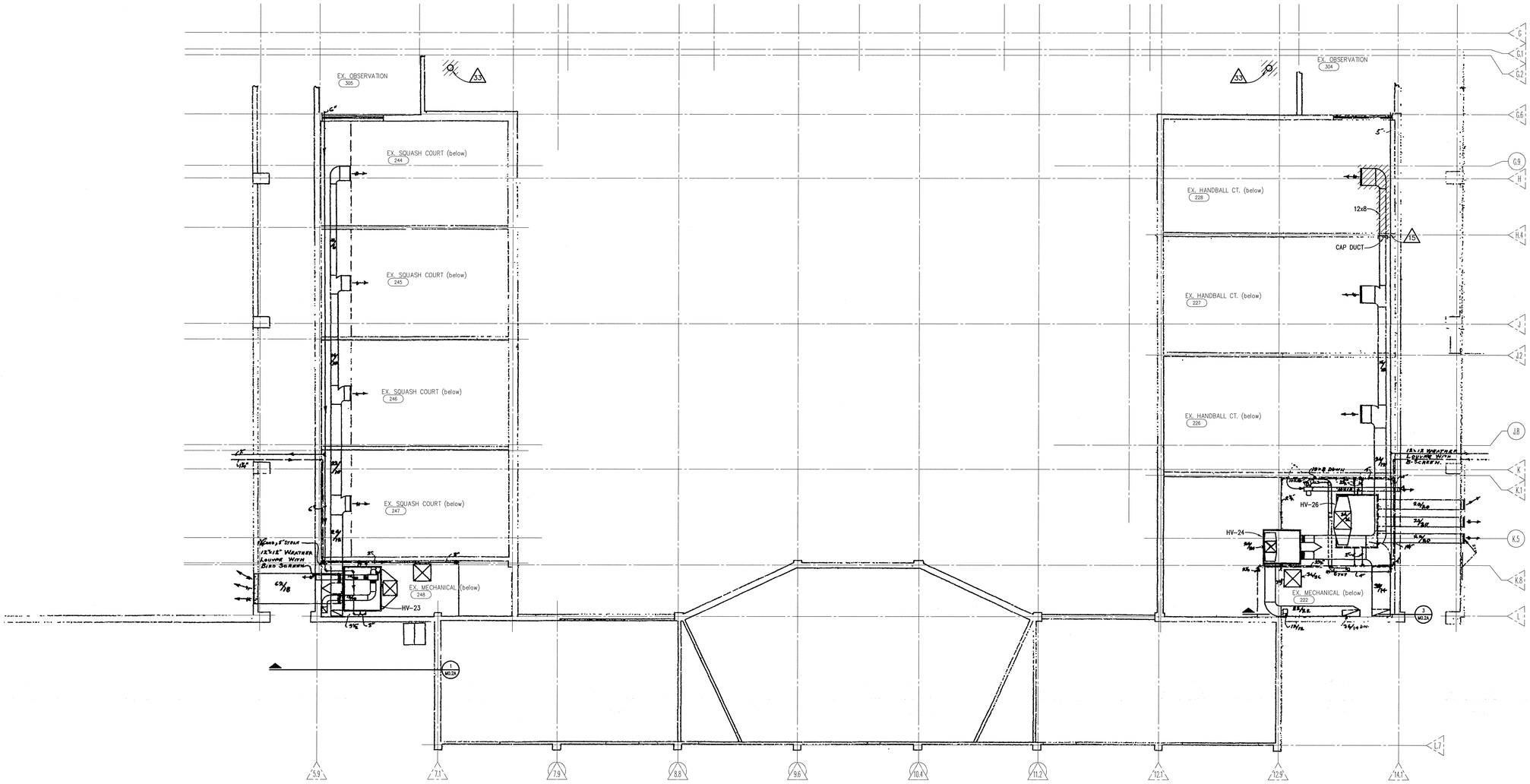
DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	LFJ
CHECKED	NPB
APPROVED	DJE

PROJECT NO.
CP03111
TMP PROJECT NO. 03118

SHEET NO.
M0.2A

G:\2003\2032\2032\Cad\2032\205-M0c-EP2.dwg, M0.2A, 9/27/2006 2:31:01 PM, JOHarris, Xerox Bond 6050.pc3, 1:1, Peter Basso Associates Inc.



TRUE NORTH

THIRD LEVEL MECHANICAL DEMOLTION PLAN - ZONE 'A'

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

0 1 4 8

GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
3. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION NOTES:

1. NOT USED
2. REMOVE EXISTING TRENCH DRAINS AND PIPING REQUIRED FOR THE INSTALLATION OF NEW FLOOR DRAINS. REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR NEW WORK.
3. REMOVE EXISTING PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO PLUMBING PLANS FOR NEW WORK.
4. REMOVE EXISTING STEAM AND CONDENSATE PIPING AND CAP WHERE INDICATED. PATCH FLOOR PENETRATION WHERE REQUIRED.
5. REMOVE ALL HOUSEKEEPING VACUUM PIPING AND OUTLETS AS INDICATED. ABANDON VAC PIPING IN TOILET AREAS IF ALTERNATE IS NOT ACCEPTED. PATCH WALL AT EXISTING OUTLETS THAT ARE REMOVED AS REQUIRED.
6. CAP EXISTING 28x20 SUPPLY DUCT ABOVE FLOOR WHERE IT PENETRATES UP THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE". PATCH FLOOR OPENING AS REQUIRED.
7. REMOVE EXISTING 1" STEAM PIPING AND CAP AT THE MAIN. CAP PIPING WHERE IT PENETRATES UP THROUGH THE FLOOR AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
8. REMOVE EXISTING STEAM PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
9. REMOVE EXISTING CONDENSATE PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "CONDENSATE PIPE ABANDONED IN PLACE" AT CAP.
10. REMOVE THREE THIRTEEN FOOT SECTIONS OF FINNED TUBE RADIATION ELEMENT, ENCLOSURE AND ASSOCIATED PIPING ON LEVEL ABOVE AND IN CEILING SPACE THIS LEVEL.
11. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. REMOVE THE EXISTING OUTSIDE AIR INTAKE DUCTWORK TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
12. NOT USED
13. REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING COMPLETE. PATCH WALL AS REQUIRED.
14. REMOVE EXISTING EXHAUST FAN AND ASSSOCIATED DUCTWORK TO THE POINT OF CONNECTION OF NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
15. REMOVE EXISTING DUCTWORK AND CAP AS INDICATED.
16. REMOVE EXISTING EXHAUST FAN, DUCTWORK, LOUVER AND PLATFORM COMPLETE.
17. CAP EXISTING 60x18 EXHAUST DUCT WHERE IS PENETRATES THROUGH THE MECHANICAL ROOM WALL. CLEARLY LABEL THE DUCT "LOCKER ROOM EXHAUST DUCT, ABANDONED IN PLACE".
18. CAP EXISTING 28x20 SUPPLY DUCT WHERE IT PENETRATES DOWN THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE".
19. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. CAP THE EXISTING OUTSIDE AIR INTAKE IMMEDIATELY BELOW THE ROOF LEVEL SEAL WEATHER-TIGHT, ABANDON THE INTAKE HOOD IN PLACE AND CLEARLY LABEL " INTAKE HOOD, ABANDONED IN PLANCE".
20. REMOVE EXISTING EXHAUST FAN AND DUCTWORK NECESSARY FOR INSTALLATION OF NEW EXHAUST FAN AND CONNECTION TO THE EXISTING DUCTWORK.
21. CAP EXISTING 72X16 EXHAUST DUCT AS INDICATED. CLEARLY LABEL THE ABANDONED DUCT "LOCKER EXHAUST DUCT, ABANDONED IN PLACE." DUCTWORK ABOVE STAIRWELL CEILING MAY BE ABANDONED IN PLACE. REMOVE AS NECESSARY TO ACCOMMODATE INSTALLATION OF CONDUITS AND PIPING.
22. REMOVE EXISTING TRENCH DRAIN AND ASSOCIATED PIPING. CAP PIPING AT THE MAIN. PATCH FLOOR OPENING.
23. REMOVE ALL DUCTWORK AND ASSOCIATED COMPONENTS COMPLETE.
24. PATCH FLOOR OPENING AS REQUIRED.
25. REMOVE EXISTING COLD WATER PIPING AND CAP BRANCH AT MAIN IN BASEMENT BELOW.
26. EXISTING FAN AND ASSOCIATED DUCTWORK TO BE REMOVED COMPLETELY.
27. REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING, FITTINGS AND PIPE SUPPORTS TO MAIN. CAP PIPING AT MAIN.
28. REMOVE EXISTING 5" LPS PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO M.4.1 FOR NEW WORK.
29. NOT USED
30. NOT USED
31. EF-21 TO REMAIN. REMOVE DISCHARGE DUCTWORK AND RELIEF HOOD TO ACCOMODATE NEW WORK. REFER TO SHEET M2.3B FOR NEW WORK.
32. REMOVE TRANSFER DUCTWORK AND GRILLES COMPLETE.
33. REMOVE ROOF DRAIN AND ASSOCIATED PIPING BACK TO THE MAIN. CAP PIPE AT THE MAIN.

SHEET: OF:

I.M. WEST ADDITION #1 (COURTYARD INFILL)	DRAWN BY:	
	APP'D BY:	
	DATE:	
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE:	AS NOTED
	DWG NO:	B-151-76
	CARD NO:	CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2676
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainet.com
PBA Project No. 203205

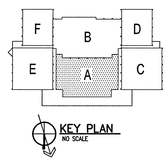
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Third Level Mechanical Demolition Plan - Zone 'A'



KEY PLAN
NO SCALE

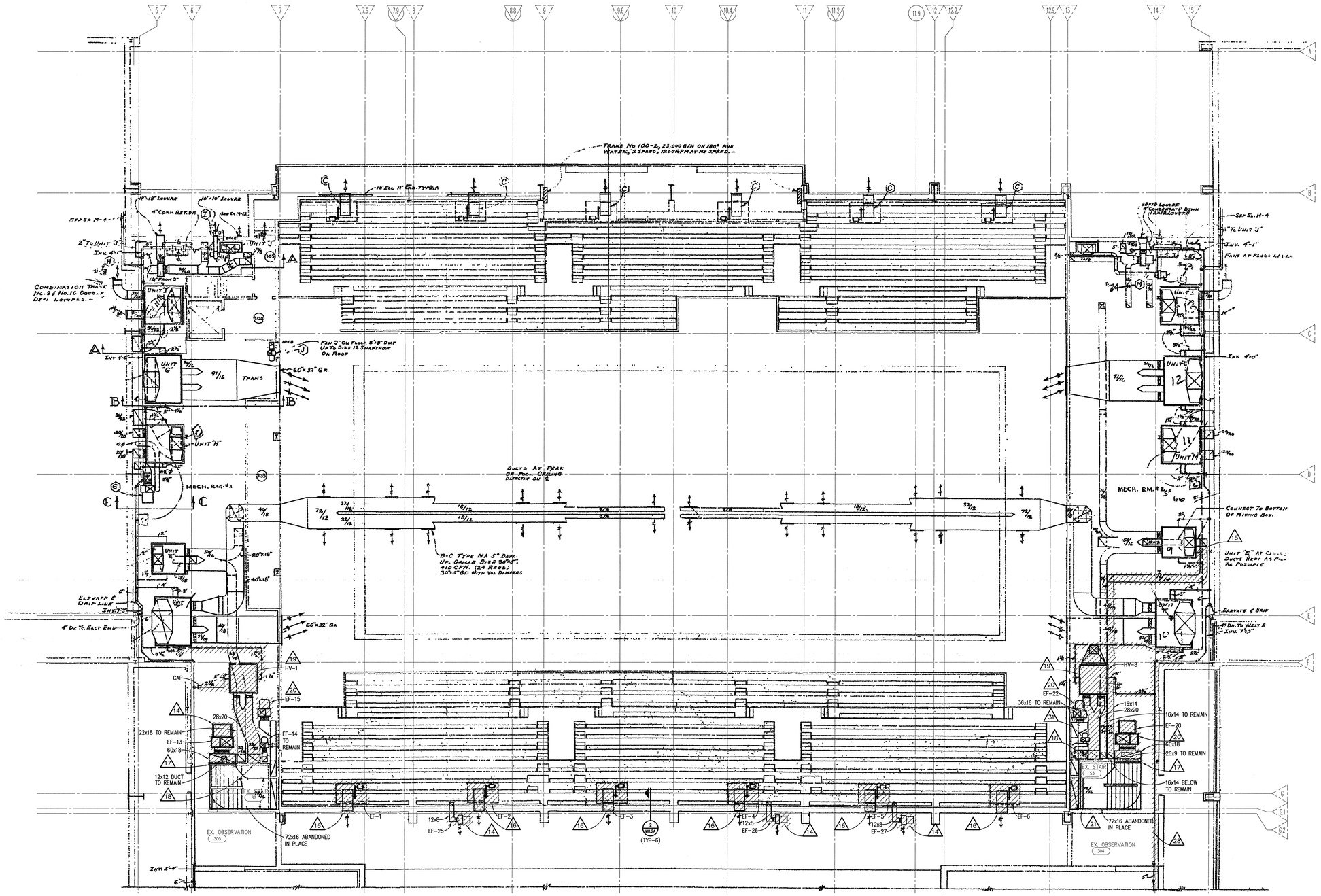
DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	LFJ
CHECKED	NPB
APPROVED	DJE

PROJECT NO.
CP03111
TMP PROJECT NO. 03118

SHEET NO.
M0.3A

G:\2003\203205\Cad\203205-M0c-DP3.dwg, M0.3A, 9/27/2006 2:20:49 PM, JOHerry, Xerox Bond 6950.pc3, 1:1, Peter Basso Associates Inc.



TRUE NORTH

THIRD LEVEL MECHANICAL DEMOLITION PLAN - ZONE 'B'

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

0 1 4 8

GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
3. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION NOTES:

1. NOT USED
2. REMOVE EXISTING TRENCH DRAINS AND PIPING REQUIRED FOR THE INSTALLATION OF NEW FLOOR DRAINS. REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR NEW WORK.
3. REMOVE EXISTING PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO PLUMBING PLANS FOR NEW WORK.
4. REMOVE EXISTING STEAM AND CONDENSATE PIPING AND CAP WHERE INDICATED. PATCH FLOOR PENETRATION WHERE REQUIRED.
5. REMOVE ALL HOUSEKEEPING VACUUM PIPING AND OUTLETS AS INDICATED. ABANDON VAC PIPING IN TOILET AREAS IF ALTERNATE IS NOT ACCEPTED. PATCH WALL AT EXISTING OUTLETS THAT ARE REMOVED AS REQUIRED.
6. CAP EXISTING 28x20 SUPPLY DUCT ABOVE FLOOR WHERE IT PENETRATES UP THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE". PATCH FLOOR OPENING AS REQUIRED.
7. REMOVE EXISTING 1" STEAM PIPING AND CAP AT THE MAIN. CAP PIPING WHERE IT PENETRATES UP THROUGH THE FLOOR AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
8. REMOVE EXISTING STEAM PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "STEAM PIPE ABANDONED IN PLACE" AT CAP.
9. REMOVE EXISTING CONDENSATE PIPING. CAP PIPING AT THE LOCKER ROOM WALL AND CLEARLY LABEL "CONDENSATE PIPE ABANDONED IN PLACE" AT CAP.
10. REMOVE THREE THIRTEEN FOOT SECTIONS OF FINNED TUBE RADIATION ELEMENT, ENCLOSURE AND ASSOCIATED PIPING ON LEVEL ABOVE AND IN CEILING SPACE THIS LEVEL.
11. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. REMOVE THE EXISTING OUTSIDE AIR INTAKE DUCTWORK TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
12. NOT USED
13. REMOVE EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING COMPLETE. PATCH WALL AS REQUIRED.
14. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO THE POINT OF CONNECTION OF NEW WORK. REFER TO HVAC PLANS FOR NEW WORK.
15. REMOVE EXISTING DUCTWORK AND CAP AS INDICATED.
16. REMOVE EXISTING EXHAUST FAN, DUCTWORK, LOUVER AND PLATFORM COMPLETE.
17. CAP EXISTING 60x18 EXHAUST DUCT WHERE IS PENETRATES THROUGH THE MECHANICAL ROOM WALL. CLEARLY LABEL THE DUCT "LOCKER ROOM EXHAUST DUCT, ABANDONED IN PLACE".
18. CAP EXISTING 28x20 SUPPLY DUCT WHERE IT PENETRATES DOWN THROUGH THE FLOOR. CLEARLY LABEL THE DUCT "SHOWER SUPPLY DUCT, ABANDONED IN PLACE".
19. REMOVE EXISTING HEATING AND VENTILATING UNIT, ASSOCIATED DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING COMPLETE. CAP STEAM AND CONDENSATE BRANCH PIPING AT THE CONNECTIONS TO THE MAINS. CAP THE EXISTING OUTSIDE AIR INTAKE IMMEDIATELY BELOW THE ROOF LEVEL SEAL WEATHER-TIGHT, ABANDON THE INTAKE HOOD IN PLACE AND CLEARLY LABEL " INTAKE HOOD, ABANDONED IN PLANCE".
20. REMOVE EXISTING EXHAUST FAN AND DUCTWORK NECESSARY FOR INSTALLATION OF NEW EXHAUST FAN AND CONNECTION TO THE EXISTING DUCTWORK.
21. CAP EXISTING 72X16 EXHAUST DUCT AS INDICATED. CLEARLY LABEL THE ABANDONED DUCT "LOCKER EXHAUST DUCT, ABANDONED IN PLACE." DUCTWORK ABOVE STAIRWELL CEILING MAY BE ABANDONED IN PLACE, REMOVE AS NECESSARY TO ACCOMMODATE INSTALLATION OF CONDUITS AND PIPING.
22. REMOVE EXISTING TRENCH DRAIN AND ASSOCIATED PIPING. CAP PIPING AT THE MAIN. PATCH FLOOR OPENING.
23. REMOVE ALL DUCTWORK AND ASSOCIATED COMPONENTS COMPLETE.
24. PATCH FLOOR OPENING AS REQUIRED.
25. REMOVE EXISTING COLD WATER PIPING AND CAP BRANCH AT MAIN IN BASEMENT BELOW.
26. EXISTING FAN AND ASSOCIATED DUCTWORK TO BE REMOVED COMPLETELY.
27. REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING, FITTINGS AND PIPE SUPPORTS TO MAIN. CAP PIPING AT MAIN.
28. REMOVE EXISTING 5" LPS PIPING TO THE POINT OF CONNECTION FOR NEW WORK. REFER TO M4.1 FOR NEW WORK.
29. NOT USED
30. NOT USED
31. EF-21 TO REMAIN. REMOVE DISCHARGE DUCTWORK AND RELIEF HOOD TO ACCOMODATE NEW WORK. REFER TO SHEET M2.3B FOR NEW WORK.
32. REMOVE TRANSFER DUCTWORK AND GRILLES COMPLETE.
33. REMOVE ROOF DRAIN AND ASSOCIATED PIPING BACK TO THE MAIN. CAP PIPE AT THE MAIN.

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD · BOX 289
BLOOMFIELD HILLS · MICHIGAN · 48303
PH · 248.338.4561 FX · 248.338.0223
EM · INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2276
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainet.com
PBA Project No. 203205

PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Third Level Mechanical Demolition Plan - Zone 'B'

F B D
E A C

KEY PLAN
NO SCALE

DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	LFJ
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

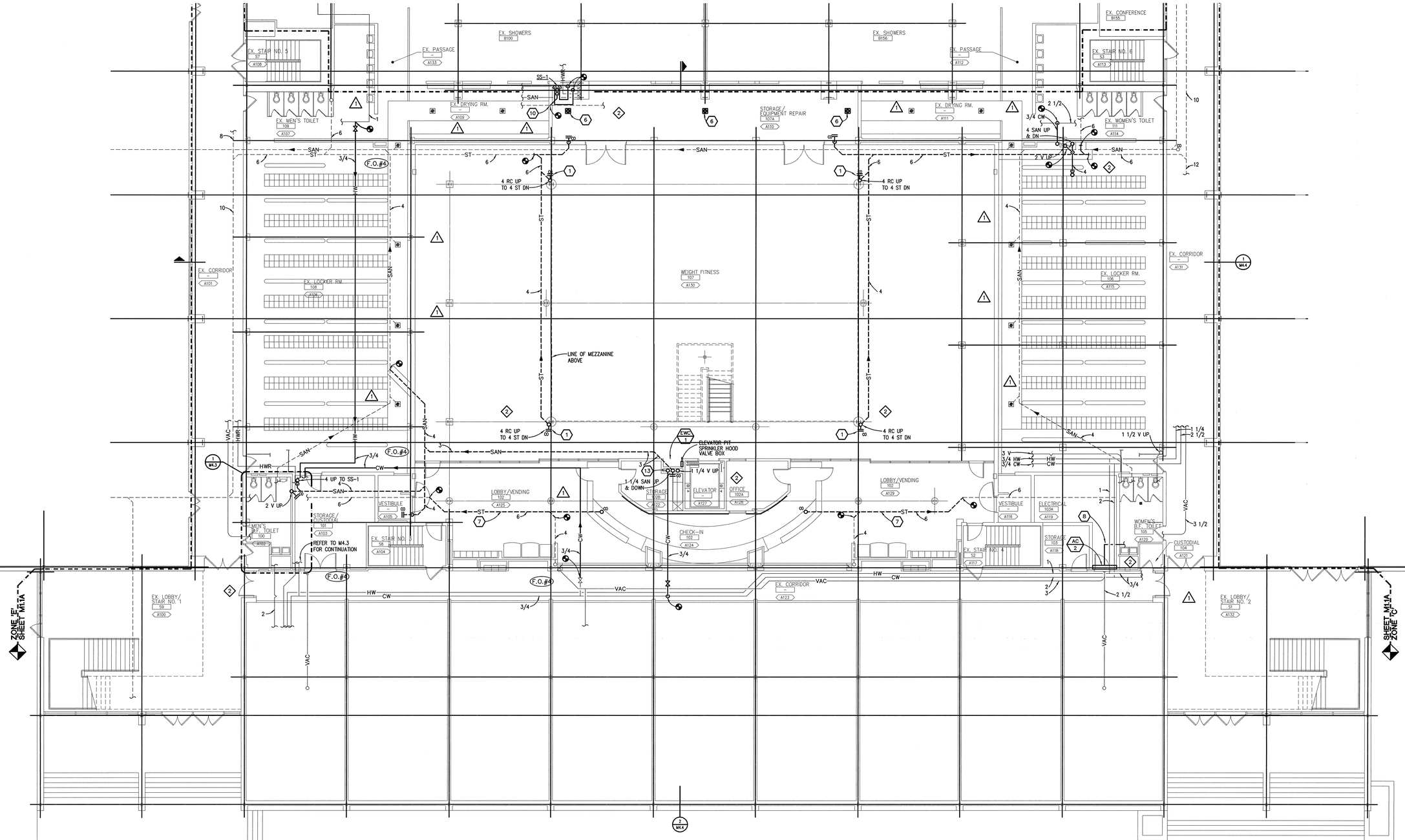
CP03111

TMP PROJECT NO. 03118

SHEET NO.

M0.3B

G:\2003\2032205\Cad\2032205-M0c-DP3.dwg, M0.3B, 9/27/2006 2:30:40 PM, JOMara, Xerox Bond 6050.pc3, 1:1, Peter Basso Associates Inc.



TRUE NORTH

FIRST LEVEL PLUMBING PLAN - ZONE 'A'

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

0 1 4 8

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
4. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
5. PIPING SHALL NOT BE LOCATED BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL UNIT HEATING COILS, OR OTHER EQUIPMENT.
6. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
7. CONTRACTOR SHALL COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
8. HOT AND COLD WATER PIPING RUN-OUTS TO LAVS AND SINKS SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FIXTURE CONNECTION SIZES.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 25'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
11. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION NOTES:

1. INSTALL RC PIPING IN ARCHITECTURAL COLUMN LOCATE CLEAN OUT AT TOP OF STACK ABOVE ENCLOSURE FOR ACCESS. REFER TO ARCHITECTURAL DETAILS AND DETAIL ON M5.2.
2. OFFSET ORC PIPING AND ROUTE TIGHT TO GYM WALL SUPPORT PIPING FROM WALL.
3. REMOVE ELBOW IN THE EXISTING WATER MAIN PIPING. INSTALL NEW TEE AND CONNECT TO THE EXISTING PIPING. INSTALL NEW AUTOMATIC SPRINKLER PIPING AS INDICATED HERE AND ON THE AUTOMATIC SPRINKLER RISER PIPING DIAGRAM.
4. NOT USED
5. ROUTE 3/4 CW & 3/4 HW DN IN WALL TO SS-1.
6. INSTALL NEW FLOOR DRAIN AND CONNECT TO EXISTING SANITARY PIPING.
7. NEW UNDERGROUND STORM PIPING CONNECT TO EXISTING. COORDINATE UNDERGROUND STORM PIPING WITH NEW COLUMN FOOTINGS.
8. ROOM AIR CONDITIONING UNIT- ROUTE ¾ CONDENSATE DRAIN BELOW CEILING TO EXISTING VENT DRAIN-REFER TO DETAIL ON SHEET M5.1
9. NOT USED
10. ROUTE NEW 3 SAN FROM SS-1 IN BASEMENT CEILING SPACE AND CONNECT TO EXISTING 6 SAN.
11. INCLUDE ALL PIPING AND WORK ASSOCIATED WITH SS-1 IN BASE BID.
12. NOT USED
13. ¾ CW DOWN TO EWC-1 ON THIS FLOOR AND ¾ CW UP TO EWC-1 ON THE SECOND FLOOR.
14. NOT USED
15. NOT USED
16. PROVIDE MINIMUM 18" CLEARANCE (FOR 6" AND SMALLER, FOR 8" AND LARGER PROVIDE 36" CLEARANCE) AT CLEAN OUT. COORDINATE WITH ALL OTHER TRADES.

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4565 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2676
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainet.com
PBA Project No. 203205

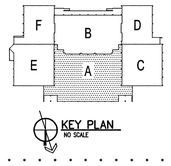
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

First Level Plumbing Plan - Zone 'A'



DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULLETIN NO. 1
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW
DRAWN	DBC
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

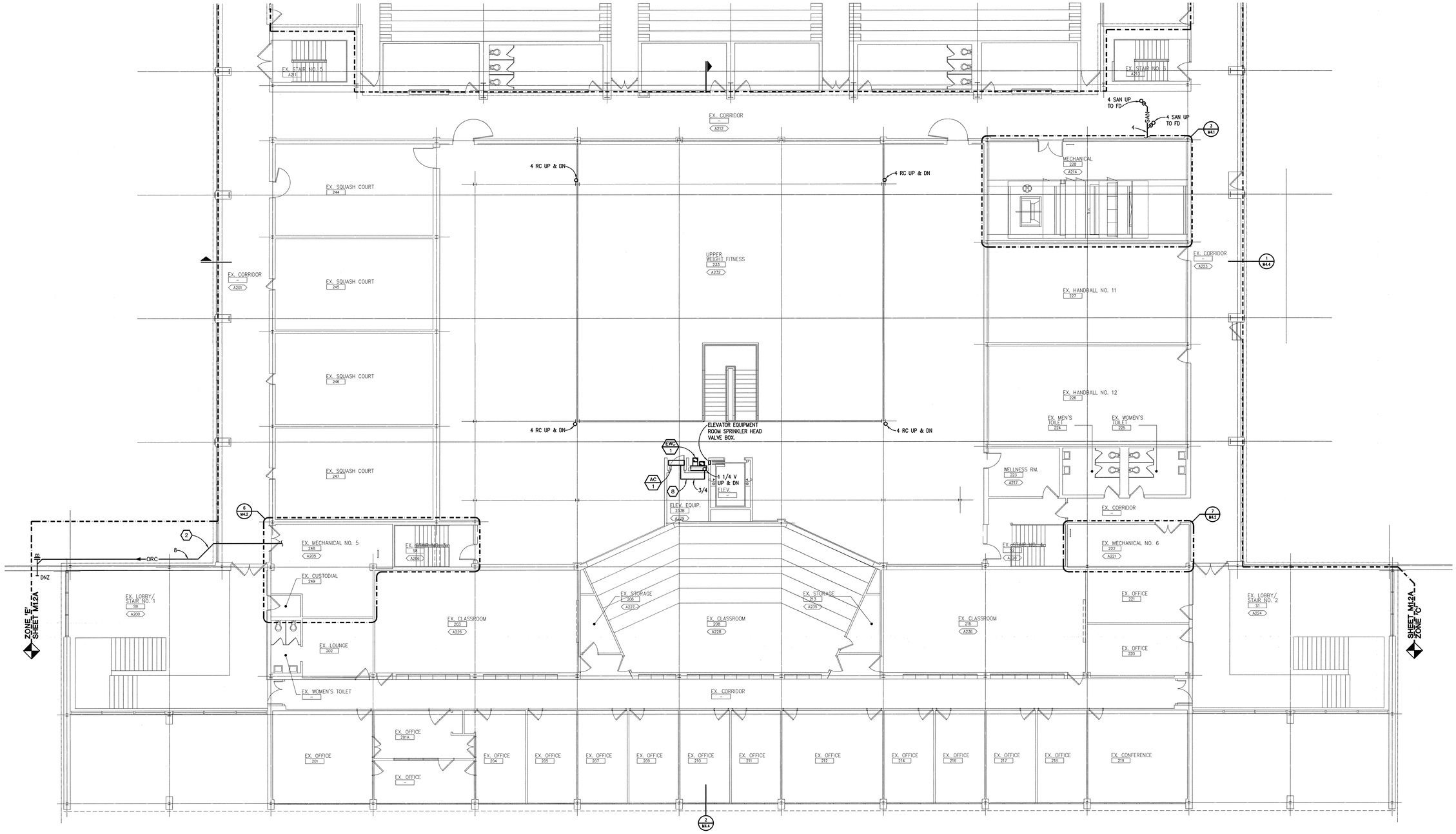
CP03111

TMP PROJECT NO. 03118

SHEET NO.

M1.1A

G:\2003\203205\Cad\203205-M1-PL1.dwg, M1.1A, 9/27/2006 2:30:27 PM, JOMarx, Xerox Bond 6050.pc3, 1:1, Peter Basso Associates Inc.



TRUE NORTH

SECOND LEVEL PLUMBING PLAN - ZONE 'A'

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

0 1 4 8

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
4. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
5. PIPING SHALL NOT BE LOCATED BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL UNIT HEATING COILS, OR OTHER EQUIPMENT.
6. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
7. CONTRACTOR SHALL COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
8. HOT AND COLD WATER PIPING RUN-OUTS TO LAVS AND SINKS SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FIXTURE CONNECTION SIZES.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 25'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
11. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION NOTES:

1. INSTALL RC PIPING IN ARCHITECTURAL COLUMN LOCATE CLEAN OUT AT TOP OF STACK ABOVE ENCLOSURE FOR ACCESS. REFER TO ARCHITECTURAL DETAILS AND DETAIL ON M5.2.
2. OFFSET ORC PIPING AND ROUTE TIGHT TO GYM WALL SUPPORT PIPING FROM WALL.
3. REMOVE ELBOW IN THE EXISTING WATER MAIN PIPING. INSTALL NEW TEE AND CONNECT TO THE EXISTING PIPING. INSTALL NEW AUTOMATIC SPRINKLER PIPING AS INDICATED HERE AND ON THE AUTOMATIC SPRINKLER RISER PIPING DIAGRAM.
4. NOT USED
5. ROUTE 3/4 CW & 3/4 HW DN IN WALL TO SS-1.
6. INSTALL NEW FLOOR DRAIN AND CONNECT TO EXISTING SANITARY PIPING.
7. NEW UNDERGROUND STORM PIPING CONNECT TO EXISTING. COORDINATE UNDERGROUND STORM PIPING WITH NEW COLUMN FOOTINGS.
8. ROOM AIR CONDITIONING UNIT- ROUTE ¾ CONDENSATE DRAIN BELOW CEILING TO EXISTING VENT DRAIN-REFER TO DETAIL ON SHEET M5.1
9. NOT USED
10. ROUTE NEW 3 SAN FROM SS-1 IN BASEMENT CEILING SPACE AND CONNECT TO EXISTING 6 SAN.
11. INCLUDE ALL PIPING AND WORK ASSOCIATED WITH SS-1 IN BASE BID.
12. NOT USED
13. ¾ CW DOWN TO EWC-1 ON THIS FLOOR AND ¾ CW UP TO EWC-1 ON THE SECOND FLOOR.
14. NOT USED
15. NOT USED
16. PROVIDE MINIMUM 18" CLEARANCE (FOR 6" AND SMALLER, FOR 8" AND LARGER PROVIDE 36" CLEARANCE) AT CLEAN OUT. COORDINATE WITH ALL OTHER TRADES.

I.M. WEST ADDITION #1 (COURTYARD INFILL)	SHEET: OF:
	DRAWN BY:
	APP'D BY:
	DATE:
MICHIGAN STATE UNIVERSITY PHYSICAL PLANT DIVISION ENGINEERING & ARCHITECTURAL SERVICES	SCALE: AS NOTED
	DWG NO: B-151-76
	CARD NO: CP 03111

TMP ARCHITECTURE

TMP ASSOCIATES INC
1191 WEST SQUARE LAKE ROAD - BOX 289
BLOOMFIELD HILLS - MICHIGAN - 48303
PH - 248.338.4561 FX - 248.338.0223
EM - INFO@TMP-ARCHITECTURE.COM

ISO 9001:2000 Registered
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-2676
Tel: 248-879-5666
Fax: 248-879-0007
www.pbainc.com
PBA Project No. 223205

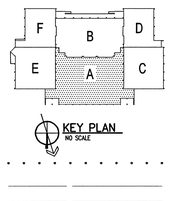
PROJECT TITLE

I.M. West Addition #1, Courtyard Infill

Michigan State University

SHEET TITLE

Second Level Plumbing Plan - Zone 'A'



DATE:	ISSUED FOR:
9-8-06	AS-BUILT
6-17-04	BULL. NO. 1 (REF. ONLY)
3-26-04	ADDENDUM NO. 2
2-18-04	BIDS
1-28-04	FINAL REVIEW

DRAWN	DBC
CHECKED	NPB
APPROVED	DJE

PROJECT NO.

CP03111

TMP PROJECT NO. 03118

SHEET NO.

M1.2A

G:\2003\2032205\Cad\2032205-M1-PL2.dwg, M1.2A, 9/27/2006 2:30:18 PM, JOMara, Xerox Bond 60lb.pc3, 1:1, Peter Basso Associates Inc.